



DEALER COMMUNICATIONS

Harley-Davidson Motor Company

Dealer Department Routing

<input type="checkbox"/> Dealer Principal	<input type="checkbox"/> General Merchandise	<input type="checkbox"/> Service
<input type="checkbox"/> General Manager	<input type="checkbox"/> Buell	<input type="checkbox"/> Parts
<input type="checkbox"/> Office Manager	<input type="checkbox"/> F&I Manager	_____
<input type="checkbox"/> Vehicle Sales Manager	<input type="checkbox"/> HOG Director	_____

July, 2000

Dear Dealer:

The enclosed 2001 Job Time/Code Manual provides the flat rate time allotments for service and repair of 2001 model year Harley-Davidson vehicles; Please note that we use realistic shop procedures and hand tools in establishing the flat rates and, accordingly, believe that the allotted times are sufficient for a properly trained technician using appropriate techniques, tools and equipment to perform each of the jobs within the flat rate.

As in the past, we encourage utilization of the enclosed forms to identify any flat rate code which you believe should be adjusted.

In addition, Customer Service will be placing greater emphasis on failure analysis and problem cause. To help us accomplish this, we have made changes to the electrical sections of our service manuals, the Job Time/Code Manual, and the condition codes. The technician can follow the diagnostic path in the service manual, correct the problem, and write the appropriate code from the service manual on a work order. The warranty claim can then be filed using the same four-digit code for the condition code as well as the labor code, thus simplifying dealer paperwork.

Success in this effort will require accuracy by dealer technicians and in some cases, more technician reliance on service manuals. We encourage you to review these manuals as they are among the most important tools you will have available to you in proper and accurate transfer of information from the field to Harley-Davidson.

Thank you for your cooperation in this effort. If additional copies of the Job Time/Code Manual are required, they can be ordered under 99997-01 through our Parts and Accessories Division.

Sincerely,

Dawn Zawacki
Warranty Specialist

Lynn Yunker
Warranty Specialist

All Motorcycle Models
JOB TIME/CODE MANUAL
2001

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Binder 99998-88
Contents 99997-01

GENERAL INFORMATION

2001 MODEL PREFIX

2001 Model prefixes are listed at the top of every page in each corresponding section. Use the following list to identify each model. Please note: these flat rates apply to 2001 model year vehicles only. They do not apply to any previous model year vehicles.

FX Models

BHY – FXST
BJY – FLSTC
BMY – FLSTF
BRY – FLSTS
BLY – FXSTS
BTY – FXSTB
BSY – FXSTD

FX - Fuel Injected Models

BVB – FXST-I
BWB – FLSTC-I
BXB – FLSTF-I
BYB – FLSTS-I
BZB – FXSTS-I
JAB – FXSTB-I
JBB – FXSTD-I

FLHTP Police Models

FHW – FLHP-I (Fuel Injected)
FMW – FLHTP-I (Fuel Injected, with fairing)
FTW – FLHPE-I (CA and Japan)

XLH Models

CAM – XLH 883
CEM – XLH 883 Hugger
CAP – XLH 1200
CGP – XLH 1200 Custom
CHP – XLH 1200 Sport
CJM – XLH 883 Custom

FLHT-Ultra Fuel Injected Models

FCW – FLHTCU-I
FFW – FLHTC-I
FLW – FLHTCU-I Shrine
FGW – FLHTCU-I w/Sidecar (Japan Only)
FSW – FLTR-I

FXD Dyna Models

GDV – FXDL Dyna Low Rider
GEV – FXDWG Dyna Wide Glide
GHV – FXD Super Glide
GJV – FXDX Dyna Super Glide Sport
GLV – FXDXT Dyna Touring

FLHT, FLHTC-Ultra Models

DJV – FLHTC
DDV – FLHT
DGV – FLHTC-Shrine
FPV – FLTR

FLHR Models

FDV – FLHR
FBW – FLHR-I
FRW – FLHR-I

CLAIM TYPE INFORMATION

Each event on a claim requires a claim type code. Claim type codes are defined below:

MC – MOTORCYCLE: A claim submitted on a vehicle that is registered to an owner and falls under the normal 12 month unlimited mileage warranty program.

MOC – MOTORCLOTHES: An item that bears the MotorClothes® or Willie G® label. Example: leather jackets, vests, chaps, bottoms. The warranty is one year. The items are further identified by the registration card attached to the garment.

CLO – CLOTHING: An item for other clothing and collectibles. Example: T-shirts, hats, snow domes. Warranty is 30 days.

DFS – DEFECTIVE STOCK: Claims filed to cover new defective stock and parts sold over the counter. This does not include parts shortages which need to be filed on an RMA form.

BAT – BATTERY: Over the counter battery warranty.

GDW – GOODWILL: Out of policy claims. These claims will require an authorization number.

PRD – PRE-DELIVERY: A claim submitted by a dealer, for warranty reimbursement on a new unregistered vehicle.

EMS – EMISSIONS: Claims filed under the 5 year/30,000 KM emissions warranty. This warranty may or may not be applicable to you.

RAD – RADIO: A warranty claim filed for radio only components. Radio component is sent directly to RSI. Submit warranty claim for labor only.

TR – TIRES: Claims filed under the Dunlop Tire warranty program.

DEM – DEMONSTRATOR: A claim submitted on a vehicle that is designated and registered as a demo unit to the dealership.

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Date _____

Harley-Davidson Motor Company
P.O. Box 653
Milwaukee, Wisconsin 53201

Attention: Manager/Technical Service

Gentlemen:

Subject: Job Time/Code Manual addition or time change.

Our shop experience has prompted us to request this job change or job addition (please check one).

Our time studies were based on this procedure:

Model & Year	Job Description	Job Time	Job/Code Number (if any)

Signed _____

Dealership _____

Address _____

City, State, Zip Code _____

Date _____

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Our time studies were based on this procedure:

Model & Year	Job Description	Job Time	Job/Code Number (if any)

Signed _____

Dealership _____

Address _____

City, State, Zip Code _____

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
SERVICE					
New					
Set-up and pre-delivery	2.1	2.1	2.1	2.1	---
1,000 mile service	2.0	2.0	2.0	2.0	---
Regular					
2,500 mile maintenance	0.5	0.5	0.5	0.5	---
5,000 mile maintenance	2.0	2.0	2.0	2.0	---
7,500 mile maintenance	0.5	0.5	0.5	0.5	---
10,000 mile maintenance	4.3	4.3	4.3	4.3	---
CHASSIS					
Drive					
Adjust secondary belt.....	0.3	0.3	0.3	0.3	---
Replace secondary belt.....	2.6	2.6	2.6	2.6	2011
Replace rear wheel sprocket.....	0.8	0.8	0.8	0.8	2021
Wheels					
Replace tire - includes balancing					
front	0.5	0.5	0.5	0.5	2106
rear	0.6	0.6	0.6	0.6	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing					
front	0.8	0.8	0.8	0.8	2113
rear	0.9	0.9	0.9	0.9	2114
Replace rim, hub or spokes					
front	2.3	2.3	---	2.3	2116
rear	2.3	---	---	---	2121
Replace wheel bearings					
front	0.5	0.5	0.5	0.5	2136
rear	0.6	0.6	0.6	0.6	2141
True spoked wheel	0.4	0.4	---	0.4	2156

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXX	BSY, JBB	
CHASSIS (Cont'd)					
Handlebars					
Replace handlebars	0.5	0.5	0.5	0.5	2206
Replace clutch hand lever	0.2	0.2	0.2	0.2	2221
Replace clutch hand lever bracket	0.2	0.2	0.2	0.2	2226
Replace throttle control	0.4	0.4	0.4	0.4	2231
Replace and adjust throttle control cables one or both	0.6	0.6	0.6	0.6	2241
Replace both rubber handlebar mounts	0.5	0.5	0.5	0.5	2246
Replace rubber handlebar grip	0.2	0.2	0.2	0.2	2251
Replace handlebar riser one or both	0.4	0.4	0.4	0.4	2253
Replace handlebar clamp one or both	0.1	0.1	0.1	0.1	2254
Frame/Swing Arm/Front Fork					
Replace frame – includes removal and installation of all accessories and motorcycle components	12.4	12.4	12.4	12.4	2306
Replace front fork assembly	2.3	2.2	2.3	2.2	2311
Replace lower fork bracket and stem	2.4	2.3	2.4	2.3	2316
Replace steering head cups and bearings, including bearing adjustment	1.9	1.8	1.9	1.8	2321
Replace upper fork bracket	1.3	1.2	1.3	1.2	2326
Replace fork lock	1.0	0.8	1.0	0.8	2330
Adjust steering head bearing	0.4	0.4	0.4	0.4	---
Change front fork oil	0.5	0.5	0.5	0.7	---
Service fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation					
one side	0.8	0.7	0.8	0.7	2341
both sides	1.2	1.1	1.2	1.1	2342
Replace fork side					
one side	0.7	0.6	0.7	0.6	2346
both sides	0.8	0.8	0.8	0.8	2351
Replace fork tube – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation					
one side	0.8	0.7	0.8	0.7	2356
both sides	1.2	1.1	1.2	1.1	2361
Replace rear swing arm and/or bearings or rear fork pivot shaft	1.2	1.2	1.2	1.2	23662
Replace rear shock absorber assembly					
one side	0.6	0.6	0.6	0.6	2371
both sides	1.2	1.2	1.2	1.2	2376
Replace shock bushing – includes removing shock					
one	0.8	0.8	0.8	0.8	2382
both	1.6	1.6	1.6	1.6	2383
Replace jiffy stand					
spring and/or stand	0.2	0.2	0.2	0.2	2396
rubber bumper	0.1	0.1	0.1	0.1	2399

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
CHASSIS (Cont'd)					
Brakes					
Replace hydraulic brake line – includes filling/bleeding brakes					
front.....	0.4	0.4	0.4	0.4	2406
rear.....	0.4	0.4	0.4	0.4	2411
Replace brake pads					
front.....	0.1	0.1	0.1	0.1	2416
rear.....	0.2	0.2	0.2	0.2	2421
Replace brake caliper – includes filling/bleeding brakes					
front.....	0.4	0.4	0.4	0.4	2426
rear.....	0.6	0.6	0.6	0.6	2431
Replace brake disc					
front.....	0.3	0.3	0.3	0.3	2436
rear.....	0.8	0.8	0.8	0.8	2441
Bleed brake caliper					
front.....	0.2	0.2	0.2	0.2	2442
rear.....	0.2	0.2	0.2	0.2	2443
Overhaul brake caliper – includes filling/bleeding brakes					
front.....	0.6	0.6	0.6	0.6	2451
rear.....	0.8	0.8	0.8	0.8	2456
Replace master cylinder assembly – includes filling/bleeding brakes					
front.....	0.4	0.4	0.4	0.4	2461
rear.....	0.5	0.5	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes					
front.....	0.6	0.6	0.6	0.6	2471
rear.....	0.6	0.6	0.6	0.6	2476
Replace rear brake pedal.....	0.3	0.3	0.3	0.3	2492
Replace front brake lever.....	0.1	0.1	0.1	0.1	2494
Seats/Fenders/Tanks					
Replace seat only.....	0.1	0.1	0.1	0.1	2506
Replace fender					
front.....	1.1	0.3	0.3	0.3	2526
rear.....	0.9	0.8	0.8	0.8	2531
Replace rear fender support – one only.....	0.3	0.3	0.3	0.3	2536
Replace fuel tank assembly.....	0.8	0.8	0.8	0.8	2541
Replace fuel tank valve.....	0.2	0.2	0.2	0.2	2561
Replace oil tank and/or one or more rubber mount(s).....	0.9	0.9	0.9	0.9	2566
Replace any single oil hose.....	0.2	0.2	0.2	0.2	2576
Replace fuel gauge.....	0.2	0.2	0.3	0.2	2563
Replace fuel gauge sending unit.....	0.3	0.3	0.3	0.3	2564
Replace license plate bracket.....	---	---	---	0.4	2590
Belts Guards					
Replace clutch cover and/or O-ring.....	0.1	0.1	0.1	0.1	2607
Replace debris deflector (belt guard).....	0.2	0.2	0.2	0.2	2616
Exhaust System					
Replace complete exhaust system and/or gaskets/inter-connect	0.4	0.4	0.4	0.4	2626
Replace exhaust pipe – dual exhaust system					
front.....	0.3	0.3	0.3	0.3	2631
rear.....	0.2	0.2	0.2	0.2	2636
Replace any muffler.....	0.2	0.2	0.2	0.2	2646
Replace any exhaust shield.....	0.1	0.1	0.1	0.1	2661

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
ENGINE					
General					
Remove and install engine – California vehicles only	4.7	4.7	4.7	4.7	3006
Remove and install engine	4.6	4.6	4.6	4.6	3006
Remove and replace oil tank for inspection/contamination	0.9	0.9	0.9	0.9	3009
Cylinder Head					
Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.					
front head	3.5	3.5	3.5	3.5	3101
rear head	3.5	3.5	3.5	3.5	3103
both heads	4.1	4.1	4.1	4.1	3104
Replace cylinder head					
one head	2.2	2.2	2.2	2.2	3106
both heads	2.8	2.8	2.8	2.8	3108
Replace valve seal or spring after cylinder head removal					
one seal or spring (intake or exhaust)	0.1	0.1	0.1	0.1	3131
both seals or springs (intake or exhaust)	0.2	0.2	0.2	0.2	3132
Replace cylinder head gasket/o-ring					
front cylinder	1.6	1.6	1.6	1.6	3140
rear cylinder	1.6	1.6	1.6	1.6	3142
both cylinders	2.0	2.0	2.0	2.0	3143
Replace rocker arm covers and/or gaskets					
front cylinder	0.7	0.7	0.7	0.7	3144
rear cylinder	0.7	0.7	0.7	0.7	3145
both cylinders	0.8	0.8	0.8	0.8	3148
Recondition rocker arms after heads are removed					
one head	0.7	0.7	0.7	0.7	3149
both heads	1.4	1.4	1.4	1.4	3150
Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support					
front cylinder	1.1	1.1	1.1	1.1	3147
rear cylinder	1.1	1.1	1.1	1.1	3152
both cylinders	1.3	1.3	1.3	1.3	3153
Replace cylinder o-ring/drain o-ring					
one cylinder	1.8	1.8	1.8	1.8	3161
rear cylinder	1.8	1.8	1.8	1.8	3163
both cylinders	2.2	2.2	2.2	2.2	3168
Replace crankcase umbrella valve					
one	1.0	1.0	1.0	1.0	3172
both	1.1	1.1	1.1	1.1	3174

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
ENGINE (Cont'd)					
Cylinder and Piston					
Recondition TOP END - includes disassembly, replacement of piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.					
one piston and cylinder	4.5	4.5	4.5	4.5	3202
both pistons and cylinders.....	5.1	5.1	5.1	5.1	3203
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.					
one piston and cylinder	4.9	4.9	4.9	4.9	3211
both pistons and cylinders.....	5.5	5.5	5.5	5.5	3212
Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.					
one piston and cylinder	4.3	4.3	4.3	4.3	3207
both pistons and cylinders.....	4.9	4.9	4.9	4.9	3208
Replace piston rings – includes deglazing cylinder					
one cylinder	2.1	2.1	2.1	2.1	3206
both cylinders	2.7	2.7	2.7	2.7	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly					
one cylinder	2.7	2.7	2.7	2.7	3221
both cylinders	3.9	3.9	3.9	3.9	3231
Replace cylinder and piston					
one cylinder	2.0	2.0	2.0	2.0	3236
both cylinders	2.5	2.5	2.5	2.5	3246
Replace upper connecting rod bushing during upper end repair					
one	0.4	0.4	0.4	0.4	3251
Replace one cylinder stud – cylinder removed.....					
one	0.1	0.1	0.1	0.1	3253
Replace all eight cylinder studs – cylinders removed.....					
one	0.5	0.5	0.5	0.5	3254
Cam Cover					
Replace lifter cover/gasket or lifter/and, or anti-rotation pin					
one	1.3	1.3	1.3	1.3	3307
both	1.5	1.5	1.5	1.5	3310
Replace push rod, push rod cover and/or O-ring or quad seal					
one or two same cylinder	1.3	1.3	1.3	1.3	3317
one each cylinder	1.5	1.5	1.5	1.5	3318
Replace cam cover and/or gasket.....					
one	0.9	0.9	0.9	0.9	3325
Replace primary cam chain, sprockets and/or fastener					
one	1.0	1.0	1.0	1.0	3327
Replace primary cam chain tensioner					
one	1.0	1.0	1.0	1.0	3328
Replace cam support plate O-rings.....					
one	2.1	2.1	2.1	2.1	3335
Replace cam support plate					
one	2.1	2.1	2.1	2.1	3337
Replace cam support bearing/cams/secondary cam chain/tensioner					
one	2.3	2.3	2.3	2.3	3338
Replace oil pump and/or O-rings.....					
one	1.9	1.9	1.9	1.9	3341
Replace cam bearing crankcase					
one bearing	2.1	2.1	2.1	2.1	3342
two bearings	2.2	2.2	2.2	2.2	3343
By pass valve inspection					
one	2.0	2.0	2.0	2.0	3354

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMJ, BXM	BSY, JBB	
ENGINE (Cont'd)					
Crankcase					
Replace crankcases – California vehicles only – includes remove and install engine	7.8	7.8	7.8	7.8	3406
Replace crankcases – includes remove and install engine	7.5	7.5	7.5	7.5	3406
Seal crankcase only	6.5	6.5	6.5	6.5	3407
Replace flywheels – includes remove and install engine ..	6.6	6.6	6.6	6.6	3411
Replace right side main bearing – California vehicles only	6.1	6.1	6.1	6.1	3412
Replace right side main bearing	6.0	6.0	6.0	6.0	3412
Piston jet/O-ring					
one	2.0	2.0	2.0	2.0	3413
both	2.4	2.4	2.4	2.4	3414
Check flywheel trueness before assembly or after removal.	0.1	0.1	0.1	0.1	3420
True flywheels after removal – includes piston removal and					
reinstallation	0.5	0.5	0.5	0.5	3421
Recondition cylinder heads – head removed (for non-related repairs)					
one head	1.0	1.0	1.0	1.0	3425
both heads	2.0	2.0	2.0	2.0	3426
Replace piston rings – cylinders removed					
(for non-related repairs – deglaze only)	0.3	0.3	0.3	0.3	3428
Replace pistons – cylinders removed					
(for non-related repairs) includes resizing cylinders	1.4	1.4	1.4	1.4	3430
Balancer System					
Replace balancer shaft/crankcase bearing	7.6	7.6	7.6	7.6	3450
Replace balancer bearing/support	7.3	7.3	7.3	7.3	3452
Replace balancer system chain	7.2	7.2	7.3	7.2	3454
Replace balancer crankshaft sprocket	7.4	7.4	7.4	7.4	3456
Replace balancer shaft sprocket/nut/spacer	7.1	7.1	7.1	7.1	3458
Replace balancer bracket assembly	7.2	7.2	7.2	7.2	3460
Replace balancer blade guide - front, rear, long	6.8	6.8	6.8	6.8	3462
Replace viton oil interconnect	6.7	6.7	6.7	6.7	3464
Fuel System					
Replace air cleaner backing plate	0.2	0.2	0.2	0.2	3501
Replace air cleaner cover	0.1	0.1	0.1	0.1	3502
Replace carburetor*	0.4	0.4	0.4	0.4	3506
Replace intake manifold and/or gasket					
one or both*	0.7	0.7	0.7	0.7	3511
Replace carburetor float valve or jet, or check					
float level or seal*	0.5	0.5	0.5	0.5	3516
Replace accelerator pump	0.5	0.5	0.5	0.5	3521
Replace enrichener cable*	0.4	0.4	0.4	0.4	3523
Replace carburetor diaphragm*	0.5	0.5	0.5	0.5	3524
Evaporative Emissions System					
Replace canister - California vehicles only	0.2	0.2	0.2	0.2	3527
Replace vapor valve	0.1	0.1	0.1	0.1	3528
Replace any one hose	0.1	0.1	0.1	0.1	3529

*Valid only on BJY, BHY, BTY, BMJ, AND BSY models (carbureted)

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
<i>DRIVE/CLUTCH</i>					
Drive					
Adjust primary chain.....	0.2	0.2	0.2	0.2	---
Replace primary chain.....	0.9	0.9	0.9	0.9	4002
Replace engine sprocket.....	0.9	0.9	0.9	0.9	4003
Replace engine sprocket seal	1.2	1.1	1.1	1.1	4005
Replace primary cover	0.4	0.3	0.4	0.3	4007
Replace primary cover gasket.....	0.4	0.3	0.4	0.3	4009
Replace primary inspection cover and/or O-ring.....	0.1	0.1	0.1	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.3	2.3	2.3	2.3	4008
Clutch					
Adjust clutch.....	0.2	0.2	0.2	0.2	---
Replace release cable assembly.....	0.8	0.8	0.8	0.8	4006
Service the clutch – includes disassembly, cleaning, inspection, repair, assembly, and adjustment	1.3	1.3	1.3	1.3	4011
Replace clutch release bearing and/or push rod end.....	0.4	0.4	0.4	0.4	4016
Replace clutch release mechanism (ball ramp) and/or cover.....	0.6	0.6	0.6	0.6	4018
<i>TRANSMISSION</i>					
Transmission Case					
Replace transmission case	5.1	5.1	5.1	5.1	4304
Replace transmission complete	3.7	3.7	3.7	3.7	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case in frame) ...	4.6	4.6	4.6	4.6	4306
Replace transmission sprocket	2.2	2.2	2.2	2.2	4309
Replace main drive gear oil seal (in transmission case)	2.3	2.3	2.3	2.3	4311
Replace mainshaft oil seal (in main drive gear)	2.2	2.2	2.2	2.2	4316
Replace side door gasket.....	2.8	2.8	2.8	2.8	4321
Replace shifter drum – includes removal and installation ..	2.2	2.2	2.2	2.2	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement.....	3.0	3.0	3.0	3.0	4336
Replace transmission top cover and/or gasket – includes oil tank and starter removal	2.0	2.0	2.0	2.0	4341
Replace shifter forks and/or shaft – includes checking gear engagement	0.9	0.9	0.9	0.9	4343
Replace side door bearing					
one	3.0	3.0	3.0	3.0	4348
both	3.1	3.1	3.1	3.1	4351
Replace transmission case countershaft bearing.....	2.9	2.9	2.9	2.9	4361
Replace main drive gear and/or bearing	3.2	3.2	3.2	3.2	4366
Replace side cover gasket	0.5	0.5	0.5	0.5	4368
Replace shift pedal and/or lever – one or both	0.1	0.1	0.1	0.1	4372
Replace transmission shifter shaft seal.....	2.2	2.2	2.2	2.2	4390

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BxB	BSY, JBB	
ELECTRICAL					
<i>NOTE: All codes listed in this section include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the Softail Service Manual, Part No. 99482-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>					
General					
Charging circuit:					
diagnose charging system – regulator inspection	0.1	0.1	0.1	0.1	5306
diagnose charging system – milliamp draw.....	0.2	0.2	0.2	0.2	5308
diagnose charging system – total current draw.....	0.2	0.2	0.2	0.2	5310
diagnose charging system – open/grounded stator	1.4	1.2	1.4	1.4	5312
diagnose system – AC output	1.4	1.2	1.4	1.4	5314
diagnose charging system – regulator failure.....	0.5	0.5	0.5	0.5	5315
diagnose charging system – voltage output	0.5	0.5	0.5	0.5	5316
diagnose charging system – replace rotor.....	1.4	1.1	1.4	1.4	5319
Lights and accessories – excluding turn signals	0.3	0.3	0.3	0.3	5016
Starter circuit:					
Starter inoperative – open/shorted/ground motor	1.6	1.5	1.5	1.5	5817
Starter inoperative – start button.....	0.9	0.9	0.9	0.9	5818
Starter inoperative – solenoid clicks; poor starter or battery connections	0.1	0.1	0.1	0.1	5822
Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts	0.3	0.3	0.3	0.3	5823
Starter inoperative – solenoid clicks; poor starter to battery connections, ground connections, or bad solenoid contacts	0.5	0.5	0.5	0.5	5824
Starter inoperative – damaged motor.....	1.6	1.5	1.5	1.5	5825
Starter inoperative – relay click; open in relay wiring	0.5	0.5	0.5	0.5	5827
Starter inoperative – nothing clicks; poor relay ground	0.3	0.3	0.3	0.3	5828
Starter Inoperative – nothing clicks; short to voltage	0.4	0.4	0.4	0.4	5830
Starter inoperative – nothing clicks; open in wiring to or from starter button	0.6	0.6	0.6	0.6	5831
Starter inoperative – starter relay	0.2	0.2	0.2	0.2	5832
Starter spins, but does not engage; jackshaft					
Slow starter crank or starter stalls; poor starter to battery connections, ground connections,	0.2	0.2	0.2	0.2	5835
Slow starter crank or starter stalls – binding	0.3	0.3	0.3	0.3	5836
Starter spins – clutch.....	1.8	1.7	1.7	1.7	5837
Starter Inoperative – nothing clicks – TSM/TSSM	0.4	0.4	0.4	0.4	5838
Replace starter solenoid, contacts – includes starter motor removal	1.8	1.7	1.7	1.7	5845
Starter binding or seal replacement	1.1	1.1	1.1	1.1	5850
Replace starter solenoid, coil – includes starter motor removal	1.8	1.7	1.7	1.7	5860
Turn Signals / Security System					
Diagnostic check.....	0.3	0.3	0.3	0.3	6725
Diagnostic check.....	0.4	0.4	0.4	0.4	6726
Diagnostic check.....	0.9	0.9	0.9	0.9	6727
Diagnostic check.....	0.6	0.6	0.6	0.6	6728

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
<i>ELECTRICAL (Cont'd)</i>					
Turn Signals / Security System (Cont'd)					
No security lamp	0.4	0.4	0.4	0.4	6735
No security lamp	0.4	0.4	0.4	0.4	6736
No security lamp	0.5	0.5	0.5	0.5	6737
No security lamp	0.4	0.4	0.4	0.4	6738
No security lamp	0.3	0.3	0.3	0.3	6739
No security lamp	0.7	0.7	0.7	0.7	6740
No security lamp	0.5	0.5	0.5	0.5	6741
No security lamp	0.4	0.4	0.4	0.4	6742
No security lamp	0.4	0.4	0.4	0.4	6743
No security lamp	0.3	0.3	0.3	0.3	6744
No security lamp	0.4	0.4	0.4	0.4	6745
Security lamp on continuously	0.5	0.5	0.5	0.5	6750
Security lamp on continuously	0.3	0.3	0.3	0.3	6751
Security lamp on continuously	0.3	0.3	0.3	0.3	6752
Fob signal weak	0.1	0.1	0.1	0.1	6755
Fob signal weak	0.1	0.1	0.1	0.1	6756
Fob signal weak	0.6	0.6	0.6	0.6	6757
Turn signal error 1A	0.5	0.5	0.5	0.5	6760
Turn signal error 1A	1.1	1.1	1.1	1.1	6761
Turn signal error 1A	0.2	0.2	0.2	0.2	6762
Turn signal error 1A	0.3	0.3	0.3	0.3	6763
Turn signal error 1A	0.7	0.7	0.7	0.7	6764
Turn signal error 1B	0.3	0.3	0.3	0.3	6767
Turn signal error 1B	0.3	0.3	0.3	0.3	6768
Turn signal error 1B	0.4	0.4	0.4	0.4	6769
Turn signal error 1C	0.8	0.8	0.8	0.8	6771
Turn signal error 2A	1.1	1.1	1.1	1.1	6773
Turn signal error 2B	0.6	0.6	0.6	0.6	6777
Turn signal error 2B	0.2	0.2	0.2	0.2	6778
Turn signal error 2B	0.3	0.3	0.3	0.3	6779
Turn signal error 2B	0.6	0.6	0.6	0.6	6780
Turn signal error 2C	0.5	0.5	0.5	0.5	6784
Turn signal error 2C	0.5	0.5	0.5	0.5	6785
Turn signal error 2C	0.7	0.7	0.7	0.7	6786
Turn signal error 3A	0.3	0.3	0.3	0.3	6790
Turn signal error 3A	0.5	0.5	0.5	0.5	6791
Turn signal error 3A	0.5	0.5	0.5	0.5	6792
Turn signal error 3A	0.2	0.2	0.2	0.2	6793
Turn signal error 3B	0.1	0.1	0.1	0.1	6796
Turn signal error 3B	0.3	0.3	0.3	0.3	6797
Turn signal error 3B	0.4	0.4	0.4	0.4	6798
Turn signal error 3B	0.3	0.3	0.3	0.3	6799
Turn signal error 3B	0.4	0.4	0.4	0.4	6800
Turn signal error 3C	0.4	0.4	0.4	0.4	6805
Turn signal error 3C	0.5	0.5	0.5	0.5	6806
Turn signal error 3C	0.3	0.3	0.3	0.3	6807
Turn signal error 3C	0.5	0.5	0.5	0.5	6808

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
ELECTRICAL (Cont'd)					
Turn Signals / Security System (cont'd)					
Turn signal error 3D	0.7	0.7	0.7	0.7	6810
Turn signal error 3D	1.1	1.1	1.1	1.1	6811
Turn signal error 3D	0.7	0.7	0.7	0.7	6812
Turn signal error 3D	0.7	0.7	0.7	0.7	6813
Turn signal error 3D	0.7	0.7	0.7	0.7	6814
Turn signal error 3D	1.1	1.1	1.1	1.1	6815
Turn signal error 3D	0.8	0.8	0.8	0.8	6816
Turn signal error 4A	0.2	0.2	0.2	0.2	6820
Turn signal error 4A	0.2	0.2	0.2	0.2	6821
Turn signal error 4A	0.6	0.6	0.6	0.6	6822
Turn signal error 4A	0.6	0.6	0.6	0.6	6823
Turn signal error 4A	0.9	0.9	0.9	0.9	6824
Ignition enable output high	0.3	0.3	0.3	0.3	6827
Ignition enable output high	0.4	0.4	0.4	0.4	6828
Alarm output	0.3	0.3	0.3	0.3	6830
Alarm output	0.3	0.3	0.3	0.3	6831
Alarm output	0.2	0.2	0.2	0.2	6832
Alarm output	0.6	0.6	0.6	0.6	6833
Alarm output	0.3	0.3	0.3	0.3	6834
Alarm output	0.3	0.3	0.3	0.3	6835
Starter output high	0.3	0.3	0.3	0.3	6840
Starter output high	0.2	0.2	0.2	0.2	6841
Starter output high	0.3	0.3	0.3	0.3	6842
Accelerometer fault	0.5	0.5	0.5	0.5	6845
Loss of ECM serial data	0.2	0.2	0.2	0.2	6850
Loss of ECM serial data	0.7	0.7	0.7	0.7	6851
Loss of ECM serial data	0.6	0.6	0.6	0.6	6852
Loss of ECM serial data	0.3	0.3	0.3	0.3	6853
Loss of ECM serial data	0.3	0.3	0.3	0.3	6854
Instruments					
Replace speedometer – cosmetics only	0.1	0.1	0.1	0.1	6003
Replace console	0.2	0.2	0.2	0.1	6012
Electronic Speedometer:					
Diagnose inoperative, inaccurate or erratic speedometer – switch	0.3	0.3	0.3	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer	0.1	0.1	0.1	0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer – wiring	0.4	0.4	0.4	0.4	6004
Diagnose inoperative, inaccurate or erratic speedometer – replace	0.4	0.3	0.3	0.3	6006
Diagnose inoperative, inaccurate or erratic speedometer – wiring	0.7	0.6	0.6	0.6	6008
Diagnose inoperative, inaccurate or erratic speedometer – sensor	0.7	0.6	0.6	0.6	6010
Diagnose inoperative, inaccurate or erratic speedometer – open	0.6	0.5	0.5	0.5	6013
Diagnose inoperative, inaccurate or erratic speedometer – LED failure	0.2	0.2	0.2	0.2	6014
Diagnose inoperative, inaccurate or erratic odometer – inoperable	0.2	0.2	0.2	0.2	6020
Diagnose inoperative, inaccurate or erratic speedometer – internal	0.4	0.4	0.4	0.4	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground	0.9	0.8	0.8	0.8	6024
Diagnose inoperative inaccurate or erratic speedometer – debris on sensor	0.8	0.7	0.7	0.7	6029

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
ELECTRICAL (Cont'd)					
Wiring					
Replace connector housing.....	0.1	0.1	0.1	0.1	5022
Replace connector anchor.....	0.1	0.1	0.1	0.1	5023
Replace main wiring harness.....	2.1	2.0	2.0	2.0	5026
Replace rear fender wiring harness.....	0.8	---	---	---	5036
Replace any single wire					
light circuit.....	0.2	0.2	0.2	0.2	5039
accessory circuit.....	0.2	0.2	0.2	0.2	5043
Replace electrical box.....	0.2	0.2	0.2	0.2	5047
Repair/diagnose indicator lamp wiring.....	0.3	0.3	0.3	0.3	5048
Replace circuit breaker or fuse.....	0.2	0.2	0.2	0.2	5145
Replace fuse block.....	0.4	0.3	0.3	0.3	5196
Switches					
Replace ignition switch.....	0.2	0.2	0.2	0.2	5129
Replace rear stoplight switch – includes filling/bleeding brakes.....	0.4	0.4	0.4	0.4	5141
Replace transmission neutral switch (includes diagnosis and loosening oil tank).....	0.6	0.6	0.6	0.6	5157
Replace oil pressure switch (includes diagnosis).....	0.3	0.3	0.3	0.3	5161
Replace passing lamp switch - FLSTC.....	0.1	---	---	---	5167
Replace left upper handlebar switch.....	0.5	0.5	0.5	0.5	5171
Replace right upper handlebar switch.....	0.7	0.7	0.7	0.7	5173
Replace front brake light switch.....	0.6	0.6	0.6	0.6	5176
Replace left upper handlebar switch housing.....	0.2	0.2	0.2	0.2	5177
Replace left lower handlebar switch housing.....	0.2	0.2	0.2	0.2	5178
Replace right upper handlebar switch housing.....	0.2	0.2	0.2	0.2	5179
Replace right lower handlebar switch housing.....	0.4	0.4	0.4	0.4	5180
Lights					
Replace headlight bracket – includes adjustment.....	0.2	0.2	0.2	0.2	5181
Replace headlight – includes diagnosis.....	0.1	0.1	0.1	0.1	5185
Replace headlight housing – includes adjustment.....	0.5	0.5	0.5	0.5	5189
Replace indicator lamp assembly.....	0.2	0.2	0.2	0.2	5191
Replace taillamp bulb or lens – includes diagnosis.....	0.1	0.1	0.1	0.1	5197
Replace taillamp assembly or circuit board.....	0.2	0.2	0.2	0.1	5215
Replace turn signal light assembly.....					
front.....	1.0	0.5	0.5	0.5	5201
rear.....	0.3	0.3	0.3	0.3	5205
Replace rear turn signal bar.....	0.3	---	---	---	5207
Replace passing lamp, FLST.....	0.4	---	---	---	5230
Replace passing lamp bulb – includes diagnosis, FLSTC.....	0.1	---	---	---	5227
Replace fender tip lamp bulb – includes diagnosis.....	0.1	---	---	---	5228
Replace passing lamp bracket, FLSTC.....	0.6	---	---	---	5232
Replace fender tip lamp assembly					
front.....	0.7	---	---	---	5225
rear.....	0.1	---	---	---	5229
Replace license plate bracket.....	---	---	---	0.1	5237
Battery/Horn					
Replace the battery.....	0.3	0.3	0.3	0.3	5705
Replace horn and/or bracket.....	0.1	0.1	0.1	0.1	5765
Accessories					
Replace tank trim.....	0.1	0.1	0.1	0.1	6507
Replace sissy bar.....	0.8	---	---	---	6511
Replace mirror.....	0.1	0.1	0.1	0.1	6513
Replace backrest.....	0.2	---	---	---	6515
Replace windshield.....	0.3	---	---	---	6517
Replace one saddlebag.....	0.1	---	---	---	6518
Replace one saddlebag bracket.....	0.2	---	---	---	6519

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY	BHY, BTY	BMJ	BSY	
ELECTRICAL (Cont'd)					
Ignition System – Carbureted Models Only					
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the Softail Service Manual, Part No. 99482-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>					
Diagnostic check	0.2	0.2	0.2	0.2	7110
Diagnostic check	0.3	0.3	0.3	0.3	7115
Diagnostic check	0.4	0.4	0.4	0.4	7120
Diagnostic check	0.4	0.3	0.3	0.3	7125
Chart A-1:					
No check engine lamp	0.4	0.3	0.3	0.3	7130
No check engine lamp	0.4	0.3	0.3	0.3	7143
No check engine lamp	0.7	0.6	0.6	0.6	7146
Chart A-2:					
Check engine lamp on continuously	0.4	0.3	0.3	0.3	7148
Check engine lamp on continuously	0.2	0.2	0.2	0.2	7150
Check engine lamp on continuously	0.7	0.6	0.6	0.6	7155
Chart A-3:					
Engine cranks but will not start.....	0.2	0.2	0.2	0.2	7180
Engine cranks but will not start.....	0.3	0.3	0.3	0.3	7185
Engine cranks but will not start.....	0.5	0.5	0.5	0.5	7210
Engine cranks but will not start.....	0.5	0.5	0.5	0.5	7215
Engine cranks but will not start.....	0.5	0.5	0.5	0.5	7225
Engine cranks but will not start.....	0.3	0.3	0.3	0.5	7226
Engine cranks but will not start.....	0.3	0.3	0.3	0.3	7227
Engine cranks but will not start.....	0.3	0.3	0.3	0.3	7228
Engine cranks but will not start.....	0.8	0.8	0.8	0.8	7230
Engine cranks but will not start.....	0.5	0.5	0.5	0.5	7231
Engine cranks but will not start.....	0.5	0.5	0.5	0.5	7235
Engine cranks but will not start.....	0.5	0.5	0.5	0.5	7250
Engine cranks but will not start.....	1.3	1.3	1.3	1.3	7255
Chart A-4:					
No spark, no check engine lamp	0.2	0.2	0.2	0.2	7270
No spark, no check engine lamp	0.8	0.8	0.8	0.8	7285
No spark, no check engine lamp	0.8	0.8	0.8	0.8	7291
No spark, no check engine lamp	0.9	0.9	0.9	0.9	7295
No spark, no check engine lamp	0.2	0.2	0.2	0.2	7305
No spark, no check engine lamp	0.4	0.4	0.4	0.4	7310
Chart C:					
Misfire.....	0.2	0.2	0.2	0.2	7520
Misfire.....	0.3	0.3	0.3	0.3	7525
Misfire.....	0.3	0.3	0.3	0.3	7535
Misfire.....	0.8	0.8	0.8	0.8	7540
Misfire.....	0.6	0.6	0.6	0.6	7541

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BJY	BHY, BTY	BMY	BSY	
<i>ELECTRICAL (Cont'd)</i>					
Ignition System – Carbureted Models Only (cont'd)					
Code-12:					
Map sensor.....	0.9	0.8	0.8	0.8	7620
Map sensor.....	2.2	2.2	2.2	2.2	7625
Map sensor.....	0.8	0.8	0.8	0.8	7630
Map sensor.....	0.8	0.7	0.7	0.7	7635
Map sensor.....	0.8	0.7	0.7	0.7	7640
Map sensor.....	0.6	0.5	0.5	0.5	7641
Map sensor.....	0.8	0.7	0.7	0.7	7642
Map sensor.....	0.8	0.7	0.7	0.7	7645
Map sensor.....	0.8	0.7	0.7	0.7	7650
Map sensor.....	0.8	0.7	0.7	0.7	7655
Code-16:					
Battery voltage test	0.4	0.4	0.4	0.4	7770
Battery voltage test	0.5	0.5	0.5	0.5	7775
Battery voltage test	0.9	0.9	0.9	0.9	7776
Battery voltage test	1.0	0.9	0.9	0.9	7779
Battery voltage test	0.9	0.9	0.9	0.9	7780
Battery voltage test	1.4	1.4	1.4	1.4	7781
Battery voltage test	1.0	1.0	1.0	1.0	7782
Battery voltage test	1.0	0.9	0.9	0.9	7783
Battery voltage test	1.2	1.1	1.1	1.1	7784
Code-24 & 25:					
Ignition coil	0.3	0.3	0.3	0.3	7855
Ignition coil	0.3	0.3	0.3	0.3	7856
Ignition coil	0.4	0.4	0.4	0.4	7860
Ignition coil	0.6	0.6	0.6	0.6	7865
Ignition coil	0.6	0.6	0.6	0.6	7870
Ignition coil	0.3	0.3	0.3	0.3	7875
Code-41:					
Crank position sensor.....	0.5	0.5	0.5	0.5	7980
Crank position sensor.....	0.7	0.7	0.7	0.7	7981
Crank position sensor.....	0.6	0.6	0.6	0.6	7982
Crank position sensor.....	0.8	0.8	0.8	0.8	7983
Crank position sensor.....	0.8	0.7	0.7	0.7	7984
Crank position sensor.....	0.7	0.6	0.6	0.6	7985
Crank position sensor.....	0.6	0.5	0.5	0.5	7986
Crank position sensor.....	0.6	0.5	0.5	0.5	7987
Code-44:					
Bank angle sensor	0.3	0.2	0.2	0.2	7971
Bank angle sensor	0.4	0.3	0.3	0.3	7972
Bank angle sensor	0.5	0.4	0.4	0.4	7973
Bank angle sensor	0.4	0.3	0.3	0.3	7974
Bank angle sensor	0.5	0.4	0.4	0.4	7975
Bank angle sensor	0.4	0.3	0.3	0.3	7976
Codes-52, 53, 54, and 55:					
Ignition module failure	0.2	0.2	0.2	0.2	7913

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BWB	BVB, JAB	BXB	JBB	
FUEL INJECTION SYSTEM					
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the Softail Service Manual, Part No. 99482-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>					
Diagnostic Check..... Diagnostic Check..... Diagnostic Check..... Diagnostic Check..... Diagnostic Check.....	0.2 0.4 0.4 0.8 0.8	0.2 0.4 0.4 0.8 0.8	0.2 0.4 0.4 0.8 0.8	0.2 0.4 0.4 0.8 0.8	7110 7115 7120 7125 7126
No check engine lamp No check engine lamp No check engine lamp No check engine lamp No check engine lamp No check engine lamp	0.7 0.3 0.2 0.1 0.2 0.2	0.7 0.3 0.2 0.1 0.2 0.2	0.7 0.3 0.2 0.1 0.2 0.2	0.7 0.3 0.2 0.1 0.2 0.3	7130 7133 7141 7142 7143 7146
Check engine lamp on continuously Check engine lamp on continuously Check engine lamp on continuously Check engine lamp on continuously Check engine lamp on continuously	0.2 0.7 0.3 0.2 0.1	0.2 0.7 0.3 0.2 0.1	0.2 0.7 0.3 0.2 0.1	0.3 0.7 0.4 0.2 0.1	7148 7150 7155 7156 7157
Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start Engine cranks but will not start	0.3 0.4 0.4 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.6 0.5 0.5 0.6 0.9	0.3 0.4 0.4 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.6 0.5 0.5 0.6 0.9	0.3 0.4 0.4 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.6 0.5 0.5 0.6 0.9	0.3 0.4 0.4 0.5 0.4 0.5 0.5 0.5 0.4 0.5 0.5 0.6 0.5 0.5 0.6 0.9	7185 7210 7215 7223 7224 7225 7226 7227 7228 7230 7231 7235 7251
No ECM power..... No ECM power..... No ECM power..... No ECM power..... No ECM power..... No ECM power..... No ECM power..... No ECM power..... No ECM power..... No ECM power.....	0.3 0.7 0.3 0.7 0.3 0.1 0.7 0.3 0.3	0.3 0.7 0.3 0.7 0.3 0.1 0.7 0.3 0.3	0.3 0.7 0.3 0.7 0.3 0.1 0.7 0.3 0.3	0.3 0.7 0.3 0.7 0.3 0.1 0.7 0.3 0.3	7270 7285 7290 7295 7301 7302 7305 7310 7320
Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test..... Fuel system electrical test.....	0.2 0.7 0.8 0.3 0.3 0.8 0.2 0.3 0.7 0.3 0.2 0.7 0.3	0.2 0.7 0.8 0.3 0.3 0.8 0.2 0.3 0.7 0.3 0.2 0.7 0.3	0.2 0.7 0.8 0.3 0.3 0.8 0.2 0.3 0.7 0.3 0.2 0.7 0.3	0.2 0.7 0.8 0.3 0.3 0.8 0.2 0.3 0.7 0.3 0.2 0.7 0.3	7335 7336 7340 7355 7360 7370 7380 7385 7415 7440 7445 7450

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BWB	BVB, JAB	BXB	JBB	
<i>FUEL INJECTION SYSTEM (Cont'd)</i>					
Starts, then stalls.....	0.2	0.2	0.2	0.2	7989
Starts, then stalls.....	0.3	0.3	0.3	0.3	7990
Starts, then stalls.....	1.3	1.3	1.3	1.6	7991
Starts, then stalls.....	0.7	0.7	0.7	1.0	7992
Starts, then stalls.....	0.7	0.7	0.7	0.7	7993
Starts, then stalls.....	0.3	0.3	0.3	0.3	7994
Starts, then stalls.....	0.4	0.4	0.4	0.4	7995
Starts, then stalls.....	0.3	0.3	0.3	0.3	7996
Starts, then stalls.....	0.5	0.5	0.5	0.5	7997
Starts, then stalls.....	0.6	0.6	0.6	0.6	7998
Starts, then stalls.....	0.5	0.5	0.5	0.5	7999
Combustion absent.....	0.1	0.1	0.1	0.1	7537
Combustion absent.....	0.2	0.2	0.2	0.2	7538
Combustion absent.....	0.2	0.2	0.2	0.2	7539
Combustion absent.....	0.2	0.2	0.2	0.2	7543
Combustion absent.....	0.8	0.8	0.8	0.8	7544
Combustion absent.....	0.2	0.2	0.2	0.2	7546
Combustion absent.....	0.4	0.4	0.4	0.4	7547
Combustion absent.....	0.2	0.2	0.2	0.2	7548
Combustion absent.....	0.2	0.2	0.2	0.2	7549
Fuel pressure test.....	0.4	0.4	0.4	0.4	7455
Fuel pressure test.....	0.7	0.7	0.7	0.7	7465
Fuel pressure test.....	0.7	0.7	0.7	0.7	7470
Fuel pressure test.....	0.7	0.7	0.7	0.7	7480
Idle air control.....	1.1	1.1	1.1	1.1	7486
Idle air control.....	0.3	0.3	0.3	0.3	7490
Idle air control.....	0.4	0.4	0.4	0.4	7495
Idle air control.....	0.4	0.4	0.4	0.4	7505
Idle air control.....	0.4	0.4	0.4	0.4	7510
Idle air control.....	0.4	0.4	0.4	0.4	7515
Idle air control.....	0.9	0.9	0.9	0.9	7516
Misfire at idle or under load.....	0.2	0.2	0.2	0.2	7520
Misfire at idle or under load.....	0.2	0.2	0.2	0.2	7525
Misfire at idle or under load.....	0.4	0.4	0.4	0.4	7535
Misfire at idle or under load.....	0.3	0.3	0.3	0.3	7540
Misfire at idle or under load.....	0.2	0.2	0.2	0.2	7545
Misfire at idle or under load.....	0.4	0.4	0.4	0.4	7550
Throttle position sensor.....	0.7	0.7	0.7	0.7	7555
Throttle position sensor.....	0.5	0.5	0.5	0.5	7560
Throttle position sensor.....	1.4	1.4	1.4	1.4	7565
Throttle position sensor.....	0.4	0.4	0.4	0.4	7570
Throttle position sensor.....	0.3	0.3	0.3	0.3	7575
Throttle position sensor.....	0.3	0.3	0.3	0.3	7580
Throttle position sensor.....	0.3	0.3	0.3	0.3	7585
Throttle position sensor.....	0.3	0.3	0.3	0.3	7590
Throttle position sensor.....	0.3	0.3	0.3	0.3	7595
Throttle position sensor.....	0.3	0.3	0.3	0.3	7605
Throttle position sensor.....	0.3	0.3	0.3	0.3	7610
Throttle position sensor.....	0.3	0.3	0.3	0.3	7615

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BWB	BVB, JAB	BXB	JBB	
FUEL INJECTION SYSTEM (Cont'd)					
MAP sensor	0.8	0.8	0.8	0.9	7620
MAP sensor	1.2	1.2	1.2	1.2	7625
MAP sensor	0.3	0.3	0.3	0.3	7630
MAP sensor	0.4	0.4	0.4	0.4	7635
MAP sensor	0.5	0.5	0.5	0.5	7640
MAP sensor	0.9	0.9	0.9	0.9	7641
MAP sensor	0.5	0.5	0.5	0.5	7642
MAP sensor	0.4	0.4	0.4	0.4	7645
MAP sensor	0.4	0.4	0.4	0.4	7650
MAP sensor	0.5	0.5	0.5	0.5	7655
Engine temperature sensor	0.4	0.4	0.4	0.4	7660
Engine temperature sensor	0.9	0.9	0.9	0.9	7665
Engine temperature sensor	0.2	0.2	0.2	0.2	7670
Engine temperature sensor	0.3	0.3	0.3	0.3	7675
Engine temperature sensor	0.7	0.7	0.7	0.7	7680
Engine temperature sensor	0.7	0.7	0.7	0.7	7685
Engine temperature sensor	0.3	0.3	0.3	0.3	7690
Engine temperature sensor	0.3	0.3	0.3	0.3	7695
Engine temperature sensor	0.3	0.3	0.3	0.3	7705
Engine temperature sensor	0.2	0.2	0.2	0.2	7710
Intake air temperature sensor	0.6	0.6	0.6	0.6	7715
Intake air temperature sensor	1.4	1.4	1.4	1.4	7720
Intake air temperature sensor	0.4	0.4	0.4	0.4	7725
Intake air temperature sensor	0.4	0.4	0.4	0.4	7730
Intake air temperature sensor	0.9	0.9	0.9	0.9	7735
Intake air temperature sensor	0.9	0.9	0.9	0.9	7740
Intake air temperature sensor	0.4	0.4	0.4	0.4	7745
Intake air temperature sensor	0.3	0.3	0.3	0.3	7750
Intake air temperature sensor	0.4	0.4	0.4	0.4	7755
Intake air temperature sensor	0.4	0.4	0.4	0.4	7760
Battery voltage test	0.4	0.4	0.4	0.4	7770
Battery voltage test	0.5	0.5	0.5	0.5	7775
Battery voltage test	0.9	0.9	0.9	0.9	7776
Battery voltage test	1.0	0.9	0.9	1.0	7779
Battery voltage test	0.9	0.9	0.9	0.9	7780
Battery voltage test	1.4	1.4	1.4	1.4	7781
Battery voltage test	1.0	1.0	1.0	1.0	7782
Battery voltage test	1.0	0.9	0.9	1.0	7783
Battery voltage test	1.2	1.1	1.1	1.2	7784
Fuel injectors.....	0.1	0.1	0.1	0.1	7785
Fuel injectors.....	0.6	0.6	0.6	0.6	7790
Fuel injectors.....	0.6	0.6	0.6	0.6	7795
Fuel injectors.....	0.5	0.5	0.5	0.7	7805
Fuel injectors.....	0.6	0.6	0.6	0.7	7808
Fuel injectors.....	0.6	0.6	0.6	0.8	7809
Fuel injectors.....	0.9	0.9	0.9	0.9	7815
Fuel injectors.....	0.6	0.6	0.6	0.8	7820
Fuel injectors.....	0.6	0.6	0.6	0.8	7825
Fuel injectors.....	0.6	0.6	0.6	0.6	7830
Fuel injectors.....	0.6	0.6	0.6	0.6	7835
Fuel injectors.....	0.6	0.6	0.6	0.6	7840
Fuel injectors.....	0.4	0.4	0.4	0.4	7845
Fuel injectors.....	0.9	0.9	0.9	0.9	7850

SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	BWB	BVB, JAB	BXB	JBB	
FUEL INJECTION SYSTEM (Cont'd)					
System relay	0.2	0.2	0.2	0.2	7887
System relay	0.2	0.2	0.2	0.2	7888
System relay	0.3	0.3	0.3	0.3	7889
System relay	0.3	0.3	0.3	0.3	7899
System relay	0.3	0.3	0.3	0.3	7900
System relay	0.3	0.3	0.3	0.3	7901
System relay	0.3	0.3	0.3	0.3	7902
System relay	0.3	0.3	0.3	0.3	7903
System relay	0.2	0.2	0.2	0.2	7904
System relay	0.7	0.7	0.7	0.7	7906
System relay	0.7	0.7	0.7	0.7	7907
System relay	0.3	0.3	0.3	0.3	7908
System relay	0.2	0.2	0.2	0.2	7909
System relay	0.1	0.1	0.1	0.1	7911
System relay	0.2	0.2	0.2	0.2	7912
Ignition coil test	0.5	0.5	0.5	0.5	7853
Ignition coil test	0.6	0.6	0.6	0.6	7854
Ignition coil test	0.4	0.4	0.4	0.4	7856
Ignition coil test	0.3	0.3	0.3	0.3	7860
Ignition coil test	0.4	0.4	0.4	0.4	7865
Ignition coil test	1.0	1.0	1.0	1.0	7870
Ignition coil test	0.3	0.3	0.3	0.3	7875
Ignition coil test	0.2	0.2	0.2	0.2	7880
Crank position sensor	0.3	0.3	0.3	0.3	7980
Crank position sensor	0.2	0.2	0.2	0.2	7981
Crank position sensor	0.3	0.3	0.3	0.3	7982
Crank position sensor	0.8	0.8	0.8	0.8	7983
Crank position sensor	0.2	0.2	0.2	0.2	7984
Crank position sensor	0.2	0.2	0.2	0.2	7985
Crank position sensor	0.3	0.3	0.3	0.3	7986
Crank position sensor	0.3	0.3	0.3	0.3	7987
ECM failure	0.7	0.7	0.7	0.7	7913
Vehicle speed signal	0.4	0.4	0.4	0.4	7954
Vehicle speed signal	0.4	0.4	0.4	0.4	7956
Vehicle speed signal	0.8	0.8	0.8	0.8	7957
Vehicle speed signal	0.2	0.2	0.2	0.2	7958
Vehicle speed signal	0.4	0.4	0.4	0.4	7959
Vehicle speed signal	0.2	0.2	0.2	0.2	7961
Vehicle speed signal	0.4	0.4	0.4	0.4	7962
Vehicle speed signal	0.4	0.4	0.4	0.4	7963
Vehicle speed signal	0.4	0.4	0.4	0.4	7964
Password problem	0.3	0.3	0.3	0.3	6701
Password problem	0.5	0.5	0.5	0.5	6702
Password problem	1.0	1.0	1.0	1.0	6703
Password problem	0.3	0.3	0.3	0.3	6704
Password problem	0.3	0.3	0.3	0.3	6705
Password problem	0.3	0.3	0.3	0.3	6706
Password problem	0.5	0.5	0.5	0.5	6707
Password problem	1.1	1.1	1.1	1.1	6708
Loss of TSM/TSSM serial data	0.2	0.2	0.2	0.2	6715
Loss of TSM/TSSM serial data	0.8	0.8	0.8	0.8	6716
Loss of TSM/TSSM serial data	0.5	0.5	0.5	0.5	6717
Loss of TSM/TSSM serial data	0.4	0.4	0.4	0.4	6718
Loss of TSM/TSSM serial data	0.4	0.4	0.4	0.4	6719

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
SERVICE			
New			
Set-up and pre-delivery	2.1	2.1	---
1,000 mile service	2.5	2.5	---
Regular			
2,500 mile maintenance	0.5	0.5	---
5,000 mile maintenance	2.0	2.0	---
7,500 mile maintenance	0.5	0.5	---
10,000 mile maintenance	4.3	4.3	---
CHASSIS			
Drive			
Adjust secondary belt	0.3	0.2	---
Replace secondary belt	2.6	2.6	2011
Replace rear wheel sprocket	0.8	0.8	2021
Wheels			
Replace tire - includes balancing			
front	0.5	0.5	2106
rear	0.7	0.6	2111
Replace wheel assembly - includes disc & sprocket exchange, and balancing			
front	0.8	0.8	2113
rear	0.9	0.9	2114
Replace rim, hub or spokes			
front	2.3	2.3	2116
rear	2.3	2.3	2121
Replace wheel bearings			
front	0.5	0.5	2136
rear	0.6	0.6	2141
True spoked wheel	0.4	0.4	2156
Handlebars			
Replace handlebars	0.5	0.5	2206
Replace clutch hand lever	0.2	0.2	2221
Replace clutch hand lever bracket	0.2	0.2	2226
Replace throttle control	0.4	0.4	2231
Replace and adjust throttle control cables			
one or both	0.6	0.6	2241
Replace both rubber handlebar mounts	0.4	0.4	2246
Replace rubber handlebar grip	0.2	0.2	2251
Replace handlebar riser			
one	0.2	0.2	2253
Replace handlebar clamp			
one or both	0.1	0.1	2254

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
CHASSIS (Cont'd)			
Frame/Swing Arm/Front Fork			
Replace frame – includes removal and installation of all accessories and motorcycle components	12.4	12.4	2306
Replace top fork clamp.....	0.3	0.3	2309
Replace fork lock.....	0.9	0.9	2330
Replace steering bearings	2.0	1.4	2332
Replace rigid fork	2.1	1.5	2334
Replace shock.....	0.1	0.1	2335
Replace one or more rebound spring(s).....	0.3	0.3	2336
Replace upper spring bridge	0.1	0.1	2338
Replace lower (compression) spring or spring reaction rod assembly (one or more) or spring fork	1.8	1.4	2348
Replace lower rocker			
one	0.6	0.5	2350
both	0.7	0.6	2353
Replace rocker bearings (rocker removed).....	0.2	0.2	2355
Replace rear swing arm and/or bearings or rear fork pivot shaft.....	1.4	1.2	2366
Replace rear shock absorber assembly			
one side.....	0.6	0.6	2371
both sides.....	1.2	1.2	2376
Replace shock bushing – includes removing shock			
one	0.8	0.8	2382
both	1.6	1.6	2383
Replace jiffy stand			
spring and/or stand	0.2	0.2	2396
rubber bumper.....	0.1	0.1	2399
Brakes			
Replace hydraulic brake line – includes filling/bleeding brakes			
front	0.4	0.4	2406
rear	0.4	0.4	2411
Replace brake pads			
front	0.1	0.1	2416
rear	0.2	0.2	2421
Replace brake reaction rod	0.8	0.1	2423
Replace brake caliper – includes filling/bleeding brakes			
front	0.4	0.4	2426
rear	0.6	0.6	2431
Replace brake disc			
front	0.3	0.3	2436
rear	0.9	0.8	2441
Bleed brake caliper			
front.....	0.2	0.2	2442
rear	0.2	0.2	2443
Overhaul brake caliper – includes filling/bleeding brakes			
front	0.6	0.6	2451
rear	0.8	0.8	2456
Replace master cylinder assembly – includes filling/bleeding brakes			
front	0.4	0.4	2461
rear	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes			
front	0.6	0.6	2471
rear	0.6	0.6	2476
Replace rear brake pedal.....	0.3	0.3	2492
Replace front brake lever	0.1	0.1	2494

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
CHASSIS (Cont'd)			
Seats/Fenders/Tanks			
Replace seat only	0.2	0.1	2506
Replace fender			
front	0.7	0.3	2526
rear	0.9	0.8	2531
Replace rear fender support – one only	0.3	0.3	2536
Replace fuel tank assembly	0.8	0.8	2541
Replace fuel tank valve	0.2	0.2	2561
Replace oil tank and/or one or more rubber mount(s).....	0.9	0.9	2566
Replace any single oil hose	0.2	0.2	2576
Replace fuel gauge	0.2	0.2	2563
Replace fuel gauge sending unit	0.3	0.3	2564
Belt Guards			
Replace clutch cover and/or O-ring	0.1	0.1	2607
Replace debris deflector (belt guard)	0.2	0.2	2616
Exhaust System			
Replace complete exhaust system and/or gaskets	1.0	0.4	2626
Replace exhaust pipe			
right side	1.0	0.3	2631
left side	0.3	0.2	2636
Replace any muffler	0.1	0.1	2646
Replace any one exhaust shield	0.1	0.1	2661
Replace muffler support	0.2	0.3	2666
ENGINE			
General			
Remove and install engine – California vehicles only	4.7	4.7	3006
Remove and install engine	4.6	4.6	3006
Remove and replace oil tank for inspection/contamination	0.9	0.9	3009

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
ENGINE (Cont'd)			
Cylinder Head			
Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.			
front head	3.5	3.5	3101
rear head	3.5	3.5	3103
both heads	4.1	4.1	3104
Replace cylinder head			
one head	2.2	2.2	3106
both heads	2.8	2.8	3108
Replace valve seal or spring after cylinder head removal			
one seal or spring (intake or exhaust)	0.1	0.1	3131
both seals or springs (intake or exhaust)	0.2	0.2	3132
Replace cylinder head gasket/o-ring			
front cylinder	1.6	1.6	3140
rear cylinder	1.6	1.6	3142
both cylinders	2.0	2.0	3143
Replace rocker arm covers and/or gaskets			
front cylinder	0.7	0.7	3144
rear cylinder	0.7	0.7	3145
both cylinders	0.8	0.8	3148
Recondition rocker arms after heads are removed			
one head	0.7	0.7	3149
both heads	1.4	1.4	3150
Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support			
front cylinder	1.1	1.1	3147
rear cylinder	1.1	1.1	3152
both cylinders	1.3	1.3	3153
Replace cylinder o-ring/drain o-ring			
one cylinder	1.8	1.8	3161
rear cylinder	1.8	1.8	3163
both cylinders	2.2	2.2	3168
Replace crankcase umbrella valve			
one	1.0	1.0	3172
both	1.1	1.1	3174
Cylinder and Piston			
Recondition TOP END - includes disassembly, replacement of piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	4.5	4.5	3202
both pistons and cylinders	5.1	5.1	3203
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	4.9	4.9	3211
both pistons and cylinders	5.5	5.5	3212

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
ENGINE (Cont'd)			
Cylinder and Piston (Cont'd)			
Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.			
one piston and cylinder	4.3	4.3	3207
both pistons and cylinders.....	4.9	4.9	3208
Replace piston rings – includes deglazing cylinder			
one cylinder.....	2.1	2.1	3206
both cylinders.....	2.7	2.7	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly			
one cylinder.....	2.7	2.7	3221
both cylinders.....	3.9	3.9	3231
Replace cylinder and piston			
one cylinder.....	2.0	2.0	3236
both cylinders.....	2.5	2.5	3246
Replace upper connecting rod bushing during upper end repair			
0.4	0.4	0.4	3251
Replace one cylinder stud – cylinder removed.....			
0.1	0.1	0.1	3253
Replace all eight cylinder studs – cylinders removed.....			
0.5	0.5	0.5	3254
Cam Cover			
Replace lifter cover/gasket or lifter/and, or anti-rotation pin			
one	1.3	1.3	3307
both	1.5	1.5	3310
Replace push rod, push rod cover and/or O-ring or quad seal			
one or two same cylinder	1.3	1.3	3317
one each cylinder	1.5	1.5	3318
Replace cam cover and/or gasket.....			
0.9	0.9	0.9	3325
Replace primary cam chain, sprockets and/or fastener			
1.0	1.0	1.0	3327
Replace primary cam chain tensioner.....			
1.0	1.0	1.0	3328
Replace cam support plate O-rings.....			
2.1	2.1	2.1	3335
Replace cam support plate			
2.1	2.1	2.1	3337
Replace cam support bearing/cams/secondary cam chain/tensioner.....			
2.3	2.3	2.3	3338
Replace oil pump and/or O-rings.....			
1.9	1.9	1.9	3341
Replace cam bearing crankcase			
one bearing	2.1	2.1	3342
two bearings.....	2.2	2.2	3343
By pass valve inspection			
2.0	2.0	2.0	3354

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
ENGINE (Cont'd)			
Crankcase			
Replace crankcases – California vehicles only – includes remove and install engine	7.8	7.8	3406
Replace crankcases – includes remove and install engine	7.5	7.5	3406
Seal crankcase only	6.5	6.5	3407
Replace flywheels – includes remove and install engine ..	6.6	6.6	3411
Replace right side main bearing – California vehicles only	6.1	6.1	3412
Replace right side main bearing.....	6.0	6.0	3412
Piston jet/O-ring			
one.....	2.0	2.0	3413
both	2.4	2.4	3414
Check flywheel trueness before assembly or after removal.	0.1	0.1	3420
True flywheels after removal – includes piston removal and			
reinstallation	0.5	0.5	3421
Recondition cylinder heads – head removed			
(for non-related repairs)			
one head	1.0	1.0	3425
both heads	2.0	2.0	3426
Replace piston rings – cylinders removed			
(for non-related repairs – deglaze only)	0.3	0.3	3428
Replace pistons – cylinders removed			
(for non-related repairs – includes resizing cylinders).....	1.4	1.4	3430
Balancer System			
Replace balancer shaft/crankcase bearing	7.6	7.6	3450
Replace balancer bearing/support	7.3	7.3	3452
Replace balancer system chain	7.2	7.2	3454
Replace balancer crankshaft sprocket	7.4	7.4	3456
Replace balancer shaft sprocket/nut/spacer	7.1	7.1	3458
Replace balancer bracket assembly	7.2	7.2	3460
Replace balancer blade guide - front, rear, long	6.8	6.8	3462
Replace viton oil interconnect	6.7	6.7	3464
Fuel System			
Replace air cleaner backing plate	0.2	0.2	3501
Replace air cleaner cover.....	0.1	0.1	3502
Replace carburetor*	0.4	0.4	3506
Replace intake manifold and/or gasket			
one or both*	0.7	0.7	3511
Replace carburetor float valve or jet, or check			
float level or seal*	0.5	0.5	3516
Replace accelerator pump	0.5	0.5	3521
Replace enrichener cable*	0.4	0.4	3523
Replace carburetor diaphragm*	0.5	0.5	3524
Evaporative Emissions System			
Replace canister – California vehicles only	0.2	0.2	3527
Replace vapor valve.....	0.1	0.1	3528
Replace any one hose	0.1	0.1	3529

*Valid only on BRY, BLY models (carbureted)

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
DRIVE/CLUTCH			
Drive			
Adjust primary chain.....	0.2	0.2	---
Replace primary chain.....	0.9	0.9	4002
Replace engine sprocket.....	0.9	0.9	4003
Replace engine sprocket seal	1.1	1.1	4005
Replace primary cover	0.4	0.3	4007
Replace primary cover gasket.....	0.4	0.3	4009
Replace primary inspection cover and/or O-ring.....	0.1	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.3	2.3	4008
Clutch			
Adjust clutch.....	0.2	0.2	---
Replace release cable assembly.....	0.8	0.8	4006
Service the clutch – includes disassembly, cleaning, inspection, repair, assembly, and adjustment	1.3	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	0.4	4016
Replace clutch release (ball ramp) and/or cover.....	0.5	0.6	4018
TRANSMISSION			
Transmission Case			
Replace transmission case	5.1	5.1	4304
Replace transmission complete	3.7	3.7	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case in frame), assembly	4.6	4.6	4306
Replace transmission sprocket	2.2	2.2	4309
Replace main drive gear oil seal (in transmission case)	2.3	2.3	4311
Replace mainshaft oil seal (in main drive gear)	2.2	2.2	4316
Replace side door gasket.....	2.8	2.8	4321
Replace shifter drum – includes removal and installation ..	2.2	2.2	4331
Replace shifter arm assembly or springs	3.0	3.0	4336
Replace transmission top cover and/or gasket – includes oil tank and starter removal.....	2.0	2.0	4341
Replace shifter forks and/or shaft.....	0.9	0.9	4343
Replace side door bearing			
one	3.0	3.0	4348
both	3.1	3.1	4351
Replace transmission case countershaft bearing.....	2.9	2.9	4361
Replace main drive gear and/or bearing	3.2	3.2	4366
Replace side cover gasket	0.5	0.5	4368
Replace shift pedal and/or lever – one or both	0.1	0.1	4372
Replace transmission shifter shaft seal.....	2.2	2.2	4390

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
ELECTRICAL			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the Softail Service Manual, Part No. 99482-01 and Electrical Diagnostics Manual, Part No. 99495-01.</i>			
General			
Lights and accessories – excluding turn signals	0.3	0.3	5016
Charging circuit:			
Diagnose charging system – regulator inspection.....	0.1	0.1	5306
Diagnose charging system – milliamp draw	0.2	0.2	5308
Diagnose charging system – total current draw	0.2	0.2	5310
Diagnose charging system – open/grounded stator.....	1.4	1.2	5312
Diagnose system – AC output	1.4	1.2	5314
Diagnose charging system – regulator failure.....	0.5	0.5	5315
Diagnose charging system – voltage output	0.5	0.5	5316
Diagnose charging system – replace rotor.....	1.4	1.1	5319
Starter circuit:			
Starter inoperative – open/shorted/ground motor	1.6	1.5	5817
Starter inoperative – start button	0.9	0.9	5818
Starter inoperative – solenoid clicks; poor starter or battery connections.....	0.1	0.1	5822
Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts	0.3	0.3	5823
Starter inoperative – solenoid clicks; poor starter to battery connections, ground connections, or bad solenoid contacts	0.5	0.5	5824
Starter inoperative – damaged motor.....	1.6	1.5	5825
Starter inoperative – relay click; open in relay wiring	0.5	0.5	5827
Starter inoperative – nothing clicks; poor relay ground ..	0.3	0.3	5828
Starter inoperative – nothing clicks; open in wiring to or from starter button	0.6	0.6	5831
Starter inoperative – nothing clicks; short to voltage	0.4	0.4	5830
Starter inoperative – starter relay	0.2	0.2	5832
Slow starter crank or starter stalls; poor starter to battery connections, ground connections.....	0.2	0.2	5835
Slow starter crank or starter stalls – binding.....	0.3	0.3	5836
Starter spins – clutch.....	1.8	1.7	5837
Starter inoperative – nothing clicks, TSM / TSSM.....	0.4	0.4	5838
Replace starter solenoid – contacts includes starter motor removal	1.8	1.7	5845
Starter binding.....	1.1	1.1	5850
Replace starter solenoid – coil includes starter motor removal	1.8	1.7	5860
Turn Signals/Security System			
.....Diagnostic check.....	0.3	0.3	6725
.....Diagnostic check.....	0.4	0.4	6726
.....Diagnostic check.....	0.9	0.9	6727
.....Diagnostic check.....	0.6	0.6	6728

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
<i>ELECTRICAL (Cont'd)</i> Turn Signals/Security System - cont'd			
No security lamp.....	0.4	0.4	6735
No security lamp.....	0.4	0.4	6736
No security lamp.....	0.5	0.5	6737
No security lamp.....	0.4	0.4	6738
No security lamp.....	0.3	0.3	6739
No security lamp.....	0.7	0.7	6740
No security lamp.....	0.5	0.5	6741
No security lamp.....	0.4	0.4	6742
No security lamp.....	0.4	0.4	6743
No security lamp.....	0.3	0.3	6744
No security lamp.....	0.4	0.4	6745
Security lamp on continuously.....	0.5	0.5	6750
Security lamp on continuously.....	0.3	0.3	6751
Security lamp on continuously.....	0.3	0.3	6752
Fob signal weak.....	0.1	0.1	6755
Fob signal weak.....	0.1	0.1	6756
Fob signal weak.....	0.6	0.6	6757
Turn signal error 1A.....	0.5	0.5	6760
Turn signal error 1A.....	1.1	1.1	6761
Turn signal error 1A.....	0.2	0.2	6762
Turn signal error 1A.....	0.3	0.3	6763
Turn signal error 1A.....	0.7	0.7	6764
Turn signal error 1B.....	0.3	0.3	6767
Turn signal error 1B.....	0.3	0.3	6768
Turn signal error 1B.....	0.4	0.4	6769
Turn signal error 1C.....	0.8	0.8	6771
Turn signal error 2A.....	1.1	1.1	6773
Turn signal error 2B.....	0.6	0.6	6777
Turn signal error 2B.....	0.2	0.2	6778
Turn signal error 2B.....	0.3	0.3	6779
Turn signal error 2B.....	0.6	0.6	6780
Turn signal error 2C.....	0.5	0.5	6784
Turn signal error 2C.....	0.5	0.5	6785
Turn signal error 2C.....	0.7	0.7	6786
Turn signal error 3A.....	0.3	0.3	6790
Turn signal error 3A.....	0.5	0.5	6791
Turn signal error 3A.....	0.5	0.5	6792
Turn signal error 3A.....	0.2	0.2	6793
Turn signal error 3B.....	0.1	0.1	6796
Turn signal error 3B.....	0.3	0.3	6797
Turn signal error 3B.....	0.4	0.4	6798
Turn signal error 3B.....	0.3	0.3	6799
Turn signal error 3B.....	0.4	0.4	6800
Turn signal error 3C.....	0.4	0.4	6805
Turn signal error 3C.....	0.5	0.5	6806
Turn signal error 3C.....	0.3	0.3	6807
Turn signal error 3C.....	0.5	0.5	6808

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
<i>ELECTRICAL (Cont'd)</i>			
Turn Signals/Security System - cont'd			
Turn signal error 3D.....	0.7	0.7	6810
Turn signal error 3D.....	1.1	1.1	6811
Turn signal error 3D.....	0.7	0.7	6812
Turn signal error 3D.....	0.7	0.7	6813
Turn signal error 3D.....	0.7	0.7	6814
Turn signal error 3D.....	1.1	1.1	6815
Turn signal error 3D.....	0.8	0.8	6816
Turn signal error 4A.....	0.2	0.2	6820
Turn signal error 4A.....	0.2	0.2	6821
Turn signal error 4A.....	0.6	0.6	6822
Turn signal error 4A.....	0.6	0.6	6823
Turn signal error 4A.....	0.9	0.9	6824
Ignition enable output high.....	0.3	0.3	6827
Ignition enable output high.....	0.4	0.4	6828
Alarm output.....	0.3	0.3	6830
Alarm output.....	0.3	0.3	6831
Alarm output.....	0.2	0.2	6832
Alarm output.....	0.6	0.6	6833
Alarm output.....	0.3	0.3	6834
Alarm output.....	0.3	0.3	6835
Starter output high.....	0.3	0.3	6840
Starter output high.....	0.2	0.2	6841
Starter output high.....	0.3	0.3	6842
Accelerometer fault.....	0.5	0.5	6845
Loss of ECM serial data.....	0.2	0.2	6850
Loss of ECM serial data.....	0.7	0.7	6851
Loss of ECM serial data.....	0.6	0.6	6852
Loss of ECM serial data.....	0.3	0.3	6853
Loss of ECM serial data.....	0.3	0.3	6854
Instruments			
Replace speedometer – cosmetics only.....	0.1	0.1	6003
Replace console.....	0.2	0.2	6012
Electronic Speedometer:			
Diagnose inoperative, inaccurate or erratic speedometer – switch.....	0.3	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer	0.1	0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer	0.4	0.4	6004
Diagnose inoperative, inaccurate or erratic speedometer	0.4	0.3	6006
Diagnose inoperative, inaccurate or erratic speedometer	0.7	0.6	6008
Diagnose inoperative, inaccurate or erratic speedometer – sensor	0.7	0.6	6010
Diagnose inoperative, inaccurate or erratic speedometer – open	0.6	0.5	6013
Diagnose inoperative, inaccurate or erratic speedometer – LED failure	0.2	0.2	6014
Diagnose inoperative, inaccurate or erratic			

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY, BYB	BLY, BZB	
speedometer – inoperable.....	0.2	0.2	6020
ELECTRICAL (Cont'd)			
Instruments - cont'd			
Diagnose inoperative, inaccurate or erratic speedometer – internal.....	0.4	0.4	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground.....	0.9	0.8	6024
Diagnose inoperative, inaccurate or erratic speedometer – debris on sensor.....	0.8	0.7	6029
Wiring			
Replace connector housing.....	0.1	0.1	5022
Replace connector anchor.....	0.1	0.1	5023
Replace main wiring harness.....	2.1	2.0	5026
Replace any single wire:			
light circuit.....	0.2	0.2	5039
accessory circuit.....	0.2	0.2	5043
Replace electrical box.....	0.2	0.2	5047
Repair/diagnose indicator lamp wiring.....	0.3	0.3	5048
Replace circuit breaker or fuse.....	0.2	0.2	5145
Replace fuse block.....	0.4	0.3	5196
.....Switches			
Replace ignition switch.....	0.2	0.2	5129
Replace rear stoplight switch – includes filling/bleeding brakes.....	0.4	0.4	5141
Replace transmission neutral switch (includes diagnosis and loosening oil tank).....	0.6	0.6	5157
Replace oil pressure switch – includes diagnosis.....	0.3	0.3	5161
Replace passing lamp switch.....	0.4	---	5167
Replace left upper handlebar switch.....	0.5	0.5	5171
Replace right upper handlebar switch.....	0.7	0.7	5173
Replace front brake light switch.....	0.6	0.6	5175
Replace left upper handlebar switch housing.....	0.2	0.2	5177
Replace left lower handlebar switch housing.....	0.2	0.2	5178
Replace right upper handlebar switch housing.....	0.2	0.2	5179
Replace right lower handlebar switch housing.....	0.4	0.4	5180
Lights			
Replace headlight bracket – includes adjustment.....	0.2	0.2	5181
Replace headlight – includes diagnosis.....	0.1	0.1	5185
Replace headlight housing – includes adjustment.....	0.5	0.5	5189
Replace indicator lamp assembly.....	0.2	0.2	5191
Replace taillight light bulb or lens – includes diagnosis.....	0.1	0.1	5197
Replace taillamp assembly or circuit board.....	0.6	0.2	5215
Replace turn signal light assembly:			
front.....	0.5	0.5	5201
rear.....	0.3	0.3	5205
Replace front fender lamp assembly.....	0.7	---	5225
Replace passing lamp bulb – includes diagnosis.....	0.1	---	5227
Replace fender tip lamp bulb – includes diagnosis.....	0.1	---	5228
Replace passing lamp.....	0.4	---	5230
Replace passing lamp bracket.....	0.6	---	5232
Battery/Horn			
Replace the battery.....	0.3	0.3	5705
Replace horn and/or bracket.....	0.2	0.1	5765
Accessories			
Replace tank trim.....	0.1	0.1	6507
Replace mirror.....	0.1	0.1	6513
Replace one saddlebag.....	0.1	---	6518

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY	BLY	
ELECTRICAL (Cont'd) Ignition System – Carbureted Models Only			
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the Softail Service Manual, Part No. 99482-01 and Electrical Diagnostics Manual, Part No. 99495-01.</i>			
Diagnostic check	0.2	0.2	7110
Diagnostic check	0.3	0.3	7115
Diagnostic check	0.4	0.4	7120
Diagnostic check	0.4	0.3	7125
Chart A-1:			
No check engine lamp	0.4	0.3	7130
No check engine lamp	0.4	0.3	7143
No check engine lamp	0.7	0.6	7146
Chart A-2:			
Check engine lamp on continuously	0.4	0.3	7148
Check engine lamp on continuously	0.2	0.2	7150
Check engine lamp on continuously	0.7	0.6	7155
Chart A-3:			
Engine cranks but will not start	0.2	0.2	7180
Engine cranks but will not start	0.3	0.3	7185
Engine cranks but will not start	0.5	0.5	7210
Engine cranks but will not start	0.5	0.5	7215
Engine cranks but will not start	0.5	0.5	7225
Engine cranks but will not start	0.3	0.3	7226
Engine cranks but will not start	0.3	0.3	7227
Engine cranks but will not start	0.3	0.3	7228
Engine cranks but will not start	0.8	0.8	7230
Engine cranks but will not start	0.5	0.5	7231
Engine cranks but will not start	0.5	0.5	7235
Engine cranks but will not start	0.5	0.5	7250
Engine cranks but will not start	1.3	1.3	7255
Chart A-4:			
No spark, no check engine lamp	0.2	0.2	7270
No spark, no check engine lamp	0.8	0.8	7285
No spark, no check engine lamp	0.8	0.8	7291
No spark, no check engine lamp	0.9	0.9	7295
No spark, no check engine lamp	0.2	0.2	7305
No spark, no check engine lamp	0.4	0.4	7310
Chart C:			
Misfire	0.2	0.2	7520
Misfire	0.3	0.3	7525
Misfire	0.3	0.3	7535
Misfire	0.8	0.8	7540
Misfire	0.6	0.6	7541
Code-12:			
Map sensor	0.9	0.9	7620
Map sensor	2.2	2.2	7625
Map sensor	0.8	0.8	7630
Map sensor	0.8	0.7	7635
Map sensor	0.8	0.7	7640
Map sensor	0.6	0.5	7641
Map sensor	0.8	0.7	7642
Map sensor	0.8	0.7	7645
Map sensor	0.8	0.7	7650
Map sensor	0.8	0.7	7655

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BRY	BLY	
<i>ELECTRICAL (Cont'd)</i> Ignition System - Carbureted Models Only (cont'd)			
Code-16:			
Battery voltage test	0.4	0.4	7770
Battery voltage test	0.5	0.5	7775
Battery voltage test	0.9	0.9	7776
Battery voltage test	1.0	0.9	7779
Battery voltage test	0.9	0.9	7780
Battery voltage test	1.4	1.4	7781
Battery voltage test	1.0	1.0	7782
Battery voltage test	1.0	0.9	7783
Battery voltage test	1.2	1.1	7784
Code-24 & 25:			
Ignition coil	0.3	0.3	7855
Ignition coil	0.3	0.3	7856
Ignition coil	0.4	0.4	7860
Ignition coil	0.6	0.6	7865
Ignition coil	0.6	0.6	7870
Ignition coil	0.3	0.3	7875
Code-41:			
Crank position sensor.....	0.5	0.5	7980
Crank position sensor.....	0.7	0.6	7981
Crank position sensor.....	0.6	0.6	7982
Crank position sensor.....	0.8	0.8	7983
Crank position sensor.....	0.8	0.7	7984
Crank position sensor.....	0.7	0.6	7985
Crank position sensor.....	0.6	0.5	7986
Crank position sensor.....	0.6	0.5	7987
Code-44:			
Bank angle sensor	0.3	0.2	7971
Bank angle sensor	0.4	0.3	7972
Bank angle sensor	0.5	0.4	7973
Bank angle sensor	0.4	0.3	7974
Bank angle sensor	0.5	0.4	7975
Bank angle sensor	0.4	0.3	7976
Codes-52, 53, 54, and 55:			
Ignition module failure	0.2	0.2	7913

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BYB	BZB	
FUEL INJECTION SYSTEM			
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the Softail Service Manual, Part No. 99482-01 and Electrical Diagnostics Manual, Part No. 99495-01.</i>			
Diagnostic Check	0.2	0.2	7110
Diagnostic Check	0.4	0.4	7115
Diagnostic Check	0.4	0.4	7120
Diagnostic Check	0.8	0.8	7125
Diagnostic Check	0.8	0.8	7126
No check engine lamp	0.7	0.7	7130
No check engine lamp	0.3	0.3	7133
No check engine lamp	0.2	0.2	7141
No check engine lamp	0.1	0.1	7142
No check engine lamp	0.2	0.2	7143
No check engine lamp	0.2	0.2	7146
Check engine lamp on continuously	0.2	0.2	7148
Check engine lamp on continuously	0.7	0.7	7150
Check engine lamp on continuously	0.3	0.3	7155
Check engine lamp on continuously	0.2	0.2	7156
Check engine lamp on continuously	0.1	0.1	7157
Engine cranks but will not start	0.3	0.3	7185
Engine cranks but will not start	0.4	0.4	7210
Engine cranks but will not start	0.4	0.4	7215
Engine cranks but will not start	0.5	0.5	7223
Engine cranks but will not start	0.4	0.4	7224
Engine cranks but will not start	0.5	0.5	7225
Engine cranks but will not start	0.5	0.5	7226
Engine cranks but will not start	0.4	0.4	7227
Engine cranks but will not start	0.5	0.5	7228
Engine cranks but will not start	0.5	0.5	7230
Engine cranks but will not start	0.6	0.6	7231
Engine cranks but will not start	0.5	0.5	7235
Engine cranks but will not start	0.9	0.9	7251
No ECM power.....	0.3	0.3	7270
No ECM power.....	0.7	0.7	7285
No ECM power.....	0.3	0.3	7290
No ECM power.....	0.7	0.7	7295
No ECM power.....	0.3	0.3	7301
No ECM power.....	0.1	0.1	7302
No ECM power.....	0.7	0.7	7305
No ECM power.....	0.3	0.3	7310
No ECM power.....	0.3	0.3	7320

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BYB	BZB	
FUEL INJECTION SYSTEM (Cont'd)			
Fuel system electrical test.....	0.2	0.2	7335
Fuel system electrical test.....	0.7	0.7	7336
Fuel system electrical test.....	0.8	0.8	7340
Fuel system electrical test.....	0.3	0.3	7355
Fuel system electrical test.....	0.3	0.3	7360
Fuel system electrical test.....	0.8	0.8	7370
Fuel system electrical test.....	0.2	0.2	7380
Fuel system electrical test.....	0.3	0.3	7385
Fuel system electrical test.....	0.7	0.7	7415
Fuel system electrical test.....	0.3	0.3	7440
Fuel system electrical test.....	0.2	0.2	7445
Fuel system electrical test.....	0.7	0.7	7450
Starts, then stalls.....	0.2	0.2	7989
Starts, then stalls.....	0.3	0.3	7990
Starts, then stalls.....	1.3	1.3	7991
Starts, then stalls.....	0.7	0.7	7992
Starts, then stalls.....	0.7	0.7	7993
Starts, then stalls.....	0.3	0.3	7994
Starts, then stalls.....	0.4	0.4	7995
Starts, then stalls.....	0.3	0.3	7996
Starts, then stalls.....	0.5	0.5	7997
Starts, then stalls.....	0.6	0.6	7998
Starts, then stalls.....	0.5	0.5	7999
Combustion absent.....	0.1	0.1	7537
Combustion absent.....	0.2	0.2	7538
Combustion absent.....	0.2	0.2	7539
Combustion absent.....	0.2	0.2	7543
Combustion absent.....	0.8	0.8	7544
Combustion absent.....	0.2	0.2	7546
Combustion absent.....	0.4	0.4	7547
Combustion absent.....	0.2	0.2	7548
Combustion absent.....	0.2	0.2	7549
Fuel pressure test	0.4	0.4	7455
Fuel pressure test	0.7	0.7	7465
Fuel pressure test	0.7	0.7	7470
Fuel pressure test	0.7	0.7	7480
Idle air control	1.1	1.1	7486
Idle air control	0.3	0.3	7490
Idle air control	0.4	0.4	7495
Idle air control	0.4	0.4	7505
Idle air control	0.4	0.4	7510
Idle air control	0.4	0.4	7515
Idle air control	0.9	0.9	7516
Misfire at idle or under load.....	0.2	0.2	7520
Misfire at idle or under load.....	0.2	0.2	7525
Misfire at idle or under load.....	0.4	0.4	7535
Misfire at idle or under load.....	0.3	0.3	7540
Misfire at idle or under load.....	0.2	0.2	7545
Misfire at idle or under load.....	0.4	0.4	7550

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BYB	BZB	
FUEL INJECTION SYSTEM (Cont'd)			
Throttle position sensor.....	0.7	0.7	7555
Throttle position sensor.....	0.5	0.5	7560
Throttle position sensor.....	1.4	1.4	7565
Throttle position sensor.....	0.4	0.4	7570
Throttle position sensor.....	0.3	0.3	7575
Throttle position sensor.....	0.3	0.3	7580
Throttle position sensor.....	0.3	0.3	7585
Throttle position sensor.....	0.3	0.3	7590
Throttle position sensor.....	0.3	0.3	7595
Throttle position sensor.....	0.3	0.3	7605
Throttle position sensor.....	0.3	0.3	7610
Throttle position sensor.....	0.3	0.3	7615
MAP sensor	0.8	0.8	7620
MAP sensor	1.2	1.2	7625
MAP sensor	0.3	0.3	7630
MAP sensor	0.4	0.4	7635
MAP sensor	0.5	0.5	7640
MAP sensor	0.9	0.9	7641
MAP sensor	0.5	0.5	7642
MAP sensor	0.4	0.4	7645
MAP sensor	0.4	0.4	7650
MAP sensor	0.5	0.5	7655
Engine temperature sensor	0.4	0.4	7660
Engine temperature sensor	0.9	0.9	7665
Engine temperature sensor	0.2	0.2	7670
Engine temperature sensor	0.3	0.3	7675
Engine temperature sensor	0.7	0.7	7680
Engine temperature sensor	0.7	0.7	7685
Engine temperature sensor	0.3	0.3	7690
Engine temperature sensor	0.3	0.3	7695
Engine temperature sensor	0.3	0.3	7705
Engine temperature sensor	0.2	0.2	7710
Intake air temperature sensor.....	0.6	0.6	7715
Intake air temperature sensor.....	1.4	1.4	7720
Intake air temperature sensor.....	0.4	0.4	7725
Intake air temperature sensor.....	0.4	0.4	7730
Intake air temperature sensor.....	0.9	0.9	7735
Intake air temperature sensor.....	0.9	0.9	7740
Intake air temperature sensor.....	0.4	0.4	7745
Intake air temperature sensor.....	0.3	0.3	7750
Intake air temperature sensor.....	0.4	0.4	7755
Intake air temperature sensor.....	0.4	0.4	7760
Battery voltage test	0.4	0.4	7770
Battery voltage test	0.5	0.5	7775
Battery voltage test	0.9	0.9	7776
Battery voltage test	1.0	0.9	7779
Battery voltage test	0.9	0.9	7780
Battery voltage test	1.4	1.4	7781
Battery voltage test	1.0	1.0	7782
Battery voltage test	1.0	0.9	7783
Battery voltage test	1.2	1.1	7784

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BYB	BZB	
<i>FUEL INJECTION SYSTEM (Cont'd)</i>			
Fuel injectors.....	0.1	0.1	7785
Fuel injectors.....	0.6	0.6	7790
Fuel injectors.....	0.6	0.6	7795
Fuel injectors.....	0.5	0.5	7805
Fuel injectors.....	0.6	0.6	7808
Fuel injectors.....	0.6	0.6	7809
Fuel injectors.....	0.9	0.9	7815
Fuel injectors.....	0.6	0.6	7820
Fuel injectors.....	0.6	0.6	7825
Fuel injectors.....	0.6	0.6	7830
Fuel injectors.....	0.6	0.6	7835
Fuel injectors.....	0.6	0.6	7840
Fuel injectors.....	0.4	0.4	7845
Fuel injectors.....	0.9	0.9	7850
System relay	0.2	0.2	7887
System relay	0.2	0.2	7888
System relay	0.3	0.3	7889
System relay	0.3	0.3	7899
System relay	0.3	0.3	7900
System relay	0.3	0.3	7901
System relay	0.3	0.3	7902
System relay	0.3	0.3	7903
System relay	0.2	0.2	7904
System relay	0.7	0.7	7906
System relay	0.7	0.7	7907
System relay	0.3	0.3	7908
System relay	0.2	0.2	7909
System relay	0.1	0.1	7911
System relay	0.2	0.2	7912
Ignition coil test	0.5	0.5	7853
Ignition coil test	0.6	0.6	7854
Ignition coil test	0.4	0.4	7856
Ignition coil test	0.3	0.3	7860
Ignition coil test	0.4	0.4	7865
Ignition coil test	1.0	1.0	7870
Ignition coil test	0.3	0.3	7875
Ignition coil test	0.2	0.2	7880
Crank position sensor	0.3	0.3	7980
Crank position sensor	0.2	0.2	7981
Crank position sensor	0.3	0.3	7982
Crank position sensor	0.8	0.8	7983
Crank position sensor	0.2	0.2	7984
Crank position sensor	0.2	0.2	7985
Crank position sensor	0.3	0.3	7986
Crank position sensor	0.3	0.3	7987

SPRINGER SOFTAIL MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	BYB	BZB	
FUEL INJECTION SYSTEM (Cont'd)			
ECM failure	0.7	0.7	7913
Vehicle speed signal	0.4	0.4	7954
Vehicle speed signal	0.4	0.4	7956
Vehicle speed signal	0.8	0.8	7957
Vehicle speed signal	0.2	0.2	7958
Vehicle speed signal	0.4	0.4	7959
Vehicle speed signal	0.2	0.2	7961
Vehicle speed signal	0.4	0.4	7962
Vehicle speed signal	0.4	0.4	7963
Vehicle speed signal	0.4	0.4	7964
Password problem	0.3	0.3	6701
Password problem	0.5	0.5	6702
Password problem	1.0	1.0	6703
Password problem	0.3	0.3	6704
Password problem	0.3	0.3	6705
Password problem	0.3	0.3	6706
Password problem	0.5	0.5	6707
Password problem	1.1	1.1	6708
Loss of TSM / TSSM serial data	0.2	0.2	6715
Loss of TSM / TSSM serial data	0.8	0.8	6716
Loss of TSM / TSSM serial data	0.5	0.5	6717
Loss of TSM / TSSM serial data	0.4	0.4	6718
Loss of TSM / TSSM serial data	0.4	0.4	6719

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP	CHP	
SERVICE					
General					
Set-up and pre-delivery	1.4	1.4	1.4	1.6	---
1,000 mile service	2.1	2.1	2.1	2.1	---
Regular					
2,500 mile maintenance	0.5	0.5	0.5	0.5	---
5,000 mile maintenance	2.6	2.6	2.6	2.6	---
7,500 mile maintenance	0.5	0.5	0.5	0.5	---
10,000 mile maintenance	3.8	3.8	3.8	4.2	---
CHASSIS					
Drive					
Adjust secondary belt	0.2	0.2	0.2	0.2	---
Replace secondary belt.....	0.7	0.7	0.7	0.7	2011
Replace rear wheel sprocket.....	0.8	0.8	0.8	0.8	2021
Replace transmission sprocket cover.....	0.6	0.6	0.6	0.6	2044
Wheels					
Replace rim, hub or spokes					
front	2.2	2.2	2.2	2.2	2116
rear	2.3	---	2.3	2.3	2121
Replace wheel bearings					
front	0.5	0.5	0.5	0.5	2136
rear	0.6	0.6	0.6	0.6	2141
Replace tire – includes balancing					
front	0.5	0.5	0.5	0.5	2106
rear	0.6	0.6	0.6	0.6	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing					
front	0.8	0.8	0.8	0.8	2113
rear	0.9	0.9	0.9	0.9	2114
Handlebars					
Replace handlebars	0.5	0.8	0.5	0.5	2206
Replace clutch hand lever	0.1	0.1	0.1	0.1	2221
Replace clutch hand lever bracket	0.2	0.2	0.2	0.2	2226
Replace throttle control	0.4	0.4	0.4	0.4	2231
Replace and adjust throttle control cables					
one or both	0.6	0.6	0.6	0.6	2241
Replace both rubber handlebar mounts	0.5	0.5	0.5	0.5	2246
Replace rubber handlebar grip	0.2	0.2	0.2	0.2	2251
Replace handlebar riser					
one or both	0.4	0.6	0.4	0.4	2253
Replace handlebar clamp					
one or both	0.1	0.1	0.1	0.1	2254
Replace handlebar riser cover					
front	---	0.1	---	---	2256
rear	---	0.2	---	---	2258

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP	CHP	
CHASSIS (Cont'd)					
Frame/Swing Arm/Front Fork					
Replace frame – includes removal and installation of all accessories and motorcycle components	10.0	10.0	10.0	10.0	2306
Replace footpegs	0.1	0.1	0.1	0.1	2307
Replace right side footpeg mount	0.6	0.4	0.6	0.6	2310
Replace left side footpeg mount.....	0.1	0.4	0.1	0.1	2312
Replace front fork assembly.....	2.2	2.4	2.2	2.2	2311
Replace lower fork bracket and stem	2.3	2.5	2.3	2.3	2316
Replace steering head cups and bearings, including bearing adjustment.....	2.2	2.4	2.2	2.2	2321
Replace upper fork bracket	0.6	0.8	0.6	0.6	2318
Adjust steering head bearings.....	0.4	0.6	0.4	0.4	---
Change front fork oil.....	0.5	0.5	0.5	1.2	---
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation					
one side.....	0.7	0.7	0.7	1.5	2341
both sides.....	1.1	1.1	1.1	2.2	2342
Replace fork side					
one side.....	0.5	0.5	0.5	0.5	2346
both sides.....	0.8	0.8	0.8	0.8	2351
Replace fork tube					
one side.....	0.6	0.6	0.6	1.0	2356
both sides.....	0.9	0.9	0.9	1.6	2361
Replace rear swing arm and/or bearings	2.0	2.0	2.0	2.0	2366
Replace rear shock absorber assembly					
one side.....	0.2	0.2	0.2	0.2	2371
both sides.....	0.4	0.4	0.4	0.4	2376
Replace rear shock absorber component(s)					
one side.....	0.3	0.3	0.3	0.3	2381
both sides.....	0.6	0.6	0.6	0.6	2386
Replace jiffy stand					
spring and/or stand	0.2	0.2	0.2	0.2	2396
rubber bumper.....	0.1	0.1	0.1	0.1	2399
Brakes					
Replace hydraulic brake line – includes filling/bleeding brakes					
front.....	0.6	0.6	0.6	0.7	2404
rear.....	0.6	0.6	0.6	0.6	2411
Replace brake pads					
front - each caliper.....	0.1	0.1	0.1	0.1	2416
rear.....	0.2	0.2	0.2	0.2	2421
Replace brake caliper – includes filling/bleeding brakes					
front - each caliper.....	0.4	0.4	0.4	0.4	2426
rear.....	0.6	0.6	0.6	0.6	2431
Replace brake disc					
front	0.3	0.3	0.3	0.3	2436
both	---	---	---	0.4	2437
rear.....	0.8	0.8	0.8	0.8	2441
Bleed brake caliper – front or rear caliper	0.2	0.2	0.2	0.2	2446

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
	JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP		CHP
CHASSIS (Cont'd)					
Brakes (Cont'd)					
Overhaul brake caliper – includes filling/bleeding brakes					
front - each caliper.....	0.6	0.6	0.6	0.6	2451
rear.....	0.8	0.8	0.8	0.8	2456
Replace master cylinder assembly – includes filling/bleeding brakes					
front.....	0.4	0.4	0.4	0.4	2461
rear.....	0.5	0.5	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes					
front.....	0.6	0.6	0.6	0.6	2471
rear.....	0.7	0.7	0.7	0.7	2476
Replace rear brake pedal.....	0.5	0.5	0.5	0.5	2492
Replace front brake lever.....	0.1	0.1	0.1	0.1	2494
Seats/Fenders/Tanks					
Replace seat.....	0.1	0.1	0.1	0.1	2506
Replace fender					
front.....	0.3	0.3	0.3	0.3	2526
rear.....	1.3	1.3	1.3	1.3	2531
Replace rear fender support					
one.....	0.3	0.3	0.3	0.3	2536
both.....	0.6	0.6	0.6	0.6	2539
Replace fuel tank assembly.....	0.3	0.3	0.3	0.3	2541
Replace fuel tank valve assembly.....	0.2	0.2	0.2	0.2	2561
Replace oil tank.....	0.7	0.7	0.7	0.7	2566
Replace oil tank lines					
feed line-oil tank to pump.....	0.7	0.7	0.7	0.7	2571
feed line oil pump to filter.....	0.7	0.7	0.7	0.7	2577
return line oil pump to tank.....	0.7	0.7	0.7	0.7	2578
vent line.....	0.7	0.7	0.7	0.7	2581
Replace oil filter (other than normal maintenance).....	0.1	0.1	0.1	0.1	2582
Replace passenger seat strap.....	---	0.1	0.1	0.1	2588
Belt Guards					
Replace rear belt guard.....	0.1	0.1	0.1	0.1	2616
Replace debris deflector.....	0.1	0.1	0.1	0.1	2617
Exhaust System					
Replace complete exhaust system.....	0.4	0.4	0.4	0.4	2621
Replace any exhaust pipe cover.....	0.1	0.1	0.1	0.1	2661
Replace one muffler.....	0.1	0.1	0.1	0.1	2665

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP	CHP	
ENGINE					
General					
Remove and install engine	3.5	3.5	3.5	3.5	3006
Remove and install engine (California vehicles only).....	3.6	3.6	3.6	3.6	3004
Cylinder Head					
Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.					
front cylinder head.....	3.8	3.8	3.8	3.8	3101
rear cylinder head.....	3.8	3.8	3.8	3.8	3103
both cylinder heads	5.7	5.7	5.7	5.7	3104
Replace cylinder head – includes pushrod gauging					
one cylinder head.....	2.8	2.8	2.8	2.8	3106
both cylinder heads	3.9	3.9	3.9	3.9	3108
Replace valve seal or spring after head removal					
one seal or spring (intake or exhaust)	0.1	0.1	0.1	0.1	3131
both seals or springs (intake or exhaust)	0.2	0.2	0.2	0.2	3132
Replace cylinder head gasket					
front cylinder.....	2.0	2.0	2.0	2.0	3140
rear cylinder.....	2.0	2.0	2.0	2.0	3142
both cylinders	2.5	2.5	2.5	2.5	3143
Replace rocker arm covers and/or gaskets					
front cylinder.....	0.9	0.9	0.9	0.9	3144
rear cylinder.....	0.9	0.9	0.9	0.9	3145
both cylinders	1.1	1.1	1.1	1.1	3148
Replace lower rocker cover/gasket, or rocker arms and/or shafts					
front cylinder.....	1.0	1.0	1.0	1.0	3147
rear cylinder.....	1.0	1.0	1.0	1.0	3152
both cylinders	1.6	1.6	1.6	1.6	3153
Recondition rocker arms after heads are removed					
one head	0.5	0.5	0.5	0.5	3149
both heads	1.0	1.0	1.0	1.0	3150
Replace cylinder base gasket					
front cylinder.....	2.6	2.6	2.6	2.6	3161
rear cylinder.....	2.6	2.6	2.6	2.6	3163
both cylinders	3.5	3.5	3.5	3.5	3168
Replace crankcase umbrella valve					
one	0.2	0.2	0.2	0.2	3172
both	0.4	0.4	0.4	0.4	3174
Cylinder and Piston					
Replace piston and resize cylinder – includes disassembly, replacing piston, and sizing cylinder, all items listed under RECONDITION CYLINDER HEAD and assembly – includes gauging pushrods.					
one piston and cylinder	5.2	5.2	5.2	5.2	3202
both pistons and cylinders.....	7.9	7.9	7.9	7.9	3203
Recondition cylinder and piston – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITION CYLINDER HEAD and assembly – includes pushrod gauging.					
one piston and cylinder	4.5	4.5	4.5	4.5	3207
both pistons and cylinders.....	7.1	7.1	7.1	7.1	3208

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP	CHP	
ENGINE (Cont'd)					
Cylinder and Piston (Cont'd)					
Replace piston rings – includes deglazing cylinder					
one cylinder	3.2	3.2	3.2	3.2	3206
both cylinders	4.1	4.1	4.1	4.1	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly					
one cylinder	3.4	3.4	3.4	3.4	3221
both cylinders	5.3	5.3	5.3	5.3	3231
Replace cylinder and piston assembly					
one cylinder	2.4	2.4	2.4	2.4	3236
both cylinders	3.1	3.1	3.1	3.1	3246
Replace upper connecting rod bushing during upper end repair	0.4	0.4	0.4	0.4	3251
Replace one cylinder stud - cylinder removed	0.1	0.1	0.1	0.1	3253
Gearcase					
Replace tappet					
one	1.2	1.2	1.2	1.2	3306
two – same cylinder.....	1.3	1.3	1.3	1.3	3311
two – one each cylinder	2.1	2.1	2.1	2.1	3313
Replace push rod, push rod cover and/or O-ring					
one	1.1	1.1	1.1	1.1	3316
two – same cylinder.....	1.2	1.2	1.2	1.2	3317
two – one each cylinder	1.8	1.8	1.8	1.8	3318
Replace gearcase cover and/or gasket – includes timing ignition.....	2.3	2.3	2.3	2.3	3326
Replace ignition timer oil seal – includes timing ignition	0.4	0.4	0.4	0.4	3331
Replace all cam gears – includes timing ignition.....	2.5	2.5	2.5	2.5	3336
Replace oil pump	0.7	0.7	0.7	0.7	3341
Replace oil pump check valve.....	0.1	0.1	0.1	0.1	3366
Replace lifter pin O-ring.....	0.1	0.1	0.1	0.1	3370
Replace cam position rotor – includes checking timing.....	0.2	0.2	0.2	0.2	5381
Crankcase					
Replace crankcases	11.6	11.6	11.6	11.6	3406
Replace flywheels – includes remove and install engine ..	10.6	10.6	10.6	10.6	3411
Check flywheel trueness after removal	0.1	0.1	0.1	0.1	3420
Check flywheels after removal – includes checking trueness					
piston removal and reinstallation, if required	0.5	0.5	0.5	0.5	3421
Recondition cylinder heads – head removed					
(for non-related repairs)					
one head	1.8	1.8	1.8	1.8	3425
both heads	3.3	3.3	3.3	3.3	3426

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
	JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP		CHP
ENGINE (Cont'd)					
Crankcase (Cont'd)					
Replace piston rings – both cylinders removed (for non-related repairs).....	0.7	0.7	0.7	0.7	3428
Replace piston and rings – includes oversizing – both cylinders removed (for non-related repairs)	1.4	1.4	1.4	1.4	3430
Fuel System					
Replace air cleaner backing plate	0.2	0.2	0.2	0.2	3501
Replace air cleaner cover.....	0.1	0.1	0.1	0.1	3502
Replace carburetor.....	0.3	0.3	0.3	0.3	3506
Replace manifold, inserts or clamps	0.4	0.4	0.4	0.4	3511
Replace carburetor float valve or jet, or check float level or seal	0.3	0.3	0.3	0.3	3516
Replace enrichment cable or plunger.....	0.2	0.2	0.2	0.2	3523
Replace carburetor diaphragm.....	0.5	0.5	0.5	0.5	3524
Evaporative Emissions System					
Replace canister.....	0.1	0.1	0.1	0.1	3527
Replace vapor valve.....	0.2	0.2	0.2	0.2	3528
Replace any one hose	0.7	0.7	0.7	0.7	3529
Replace air cleaner solenoid – includes testing	0.3	0.3	0.3	0.3	3590
DRIVE/CLUTCH					
Drive					
Adjust primary chain.....	0.1	0.1	0.1	0.1	---
Replace primary inspection cover and/or O-ring.....	0.1	0.1	0.1	0.1	4001
Replace primary chain.....	0.8	0.8	0.8	0.8	4002
Replace engine sprocket.....	0.8	0.8	0.8	0.8	4003
Replace engine sprocket oil seal	0.9	0.9	0.9	0.9	4005
Replace primary cover	0.7	0.7	0.7	0.7	4007
Replace primary gasket.....	0.5	0.5	0.5	0.5	4009
Clutch					
Adjust clutch	0.1	0.1	0.1	0.1	---
Replace clutch release mechanism.....	0.1	0.1	0.1	0.1	4006
Service the clutch – includes disassembly, cleaning, inspection, repair, assembly and adjustment	1.5	1.5	1.5	1.5	4011
Replace clutch cable	0.2	0.2	0.2	0.2	4013
Replace shifter seal.....	0.1	0.1	0.1	0.1	4015

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP	CHP	
TRANSMISSION Transmission Case Overhaul transmission – includes disassembly, removal, cleaning, inspection, replacing parts, assembly and installation 3.2 3.2 3.2 3.2 4306 Replace transmission access cover and/or access door bearing 2.3 2.3 2.3 2.3 4319 Replace shifter drum 1.3 1.3 1.3 1.3 4329 Replace shift linkage and/or spring – includes pawl adjustment..... 1.1 1.1 1.1 1.1 4332 Replace shifter forks..... 1.3 1.3 1.3 1.3 4343 Replace transmission case countershaft bearing..... 1.6 1.6 1.6 1.6 4361 Perform shifter pawl adjustment..... 1.0 1.0 1.0 1.0 4363 Replace main drive gear and/or bearing 1.8 1.8 1.8 1.8 4366 Replace detent arm and/or spring 0.9 0.9 0.9 0.9 4368 Replace main drive gear quad seal..... 0.8 0.8 0.8 0.8 4369 Replace main drive gear belt sprocket 0.8 0.8 0.8 0.8 4309 Replace main drive gear seal (in crankcase) 0.9 0.9 0.9 0.9 4311					
ELECTRICAL <i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the XLH Service Manual, Part No. 99484-01.</i> General Lights and accessories – excluding turn signals 0.3 0.3 0.3 0.3 5016 Turn signals: Turn signals will not cancel – signal 0.3 0.3 0.3 0.3 5202 Turn signals will not cancel – ground 0.4 0.4 0.4 0.4 5203 Turn signals will not cancel – open/ground 0.4 0.4 0.4 0.4 5204 Turn signals will not cancel – speedo 0.3 0.3 0.3 0.3 5206 Turn signals will not flash – bulb..... 0.1 0.1 0.1 0.1 5208 Turn signals will not flash right/left – input..... 0.3 0.3 0.3 0.3 5210 Turn signals will not flash – open 0.3 0.3 0.3 0.3 5211 Turn signals will not flash – open 0.4 0.4 0.4 0.4 5212 Turn signals will not flash – bulb..... 0.1 0.1 0.1 0.1 5213 Turn signals/flashers inoperable 0.3 0.3 0.3 0.3 5214 Turn signals/flashers inoperable – open..... 0.4 0.4 0.4 0.4 5216 Turn signals/flashers inoperable – wiring 0.4 0.4 0.4 0.4 5218 Turn signals/flashers inoperable – wiring 0.5 0.5 0.5 0.5 5219 Turn signals/flashers inoperable – switch..... 0.9 0.9 0.9 0.9 5220 Turn signals/flashers inoperable – fuse..... 0.2 0.2 0.2 0.2 5222 Turn signals will not cancel – signal ground..... 0.4 0.4 0.4 0.4 5223 Charging circuit: Diagnose charging system – regulator inspection..... 0.1 0.1 0.1 0.1 5306 Diagnose charging system – regulator bleed test..... 0.4 0.4 0.4 0.4 5307 Diagnose charging system – milliamp draw 0.2 0.2 0.2 0.2 5308 Diagnose charging system – total current draw 0.2 0.2 0.2 0.2 5310 Diagnose charging system – open/grounded stator..... 1.5 1.5 1.5 1.5 5312 Diagnose system – AC output..... 1.5 1.5 1.5 1.5 5314 Diagnose charging system – regulator failure 0.4 0.4 0.4 0.4 5315 Diagnose charging system – voltage output 0.4 0.4 0.4 0.4 5316 Diagnose charging system – replace rotor..... 1.4 1.4 1.4 1.4 5319					

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP	CHP	
ELECTRICAL (Cont'd)					
General - cont'd					
Starter circuit:					
Starter inoperative – open/shorted/ground motor	1.0	1.0	1.0	1.0	5817
Starter inoperative – start button	0.9	0.9	0.9	0.9	5818
Starter inoperative – solenoid clicks; poor starter or battery connections	0.1	0.1	0.1	0.1	5822
Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts	0.2	0.2	0.2	0.1	5823
Starter inoperative – solenoid clicks; poor starter to battery connections, ground connections, or bad solenoid contacts	0.2	0.2	0.2	0.2	5824
Starter inoperative – damaged motor	0.9	0.9	0.9	0.9	5825
Starter inoperative – relay click; open in relay wiring	0.2	0.2	0.2	0.2	5827
Starter inoperative – nothing clicks; poor relay ground .	0.2	0.2	0.2	0.2	5828
Starter inoperative – nothing clicks; open in wiring to or from starter button	0.4	0.4	0.4	0.4	5831
Starter inoperative – starter relay	0.3	0.3	0.3	0.3	5832
Slow starter crank or starter stalls; poor starter to battery connections, ground connections, or bad solenoid contacts	0.2	0.2	0.2	0.2	5835
Slow starter crank or starter stalls; jackshaft binding or defective starter motor	0.3	0.3	0.3	0.3	5836
Starter spins – clutch	1.0	1.0	1.0	1.0	5837
Replace starter solenoid – contacts; includes starter motor removal	1.1	1.1	1.1	1.1	5845
Replace starter solenoid – coil; includes starter motor removal	1.1	1.1	1.1	1.1	5860
Instruments:					
Replace speedometer – cosmetics only	0.1	0.1	0.1	0.1	6003
Replace tachometer	--	--	0.1	0.1	6009
Electronic Speedometer:					
Diagnose inoperative, inaccurate or erratic speedometer – switch	0.3	0.3	0.3	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer ...	0.1	0.1	0.1	0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer – wiring	0.2	0.2	0.2	0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer – replace	0.4	0.4	0.4	0.4	6006
Diagnose inoperative, inaccurate or erratic speedometer – wiring	0.5	0.5	0.5	0.5	6008
Diagnose inoperative, inaccurate or erratic speedometer – sensor	0.6	0.6	0.6	0.6	6010
Diagnose inoperative, inaccurate or erratic speedometer – open	0.5	0.5	0.5	0.5	6013
Diagnose inoperative, inaccurate or erratic speedometer – LED failure	0.2	0.2	0.2	0.2	6014
Diagnose inoperative, inaccurate or erratic speedometer – wires	0.3	0.3	0.3	0.3	6016
Odometer inoperative	0.1	0.1	0.1	0.1	6020
Diagnose inoperative, inaccurate or erratic speedometer – internal	0.4	0.4	0.4	0.4	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground	0.4	0.4	0.4	0.4	6024
Diagnose inoperative, inaccurate or erratic speedometer – debris on sensor	0.4	0.4	0.4	0.4	6029

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP	CHP	
ELECTRICAL (Cont'd)					
Wiring					
Replace battery cable – one (negative or positive).....	0.3	0.3	0.3	0.3	5024
Replace main wiring harness	2.6	2.6	2.6	2.6	5026
Replace rear fender wiring harness	0.5	0.5	0.5	0.5	5036
Replace any single wire – light circuit	0.2	0.2	0.2	0.2	5039
Replace any single wire – accessory circuit.....	0.2	0.2	0.2	0.2	5043
Replace speedometer housing	0.7	0.7	0.7	0.7	5046
Repair/diagnose indicator lamp wiring	0.3	0.3	0.3	0.3	5048
Replace circuit breaker or fuse	0.1	0.1	0.1	0.1	5145
Switches					
Replace ignition switch.....	0.5	0.5	0.5	0.5	5129
Replace left upper handlebar switch	0.5	0.5	0.5	0.5	5171
Replace right upper handlebar switch.....	0.7	0.7	0.7	0.7	5173
Replace front brake light switch	0.6	0.6	0.6	0.6	5176
Replace left upper handlebar switch housing	0.2	0.2	0.2	0.2	5177
Replace left lower handlebar switch housing	0.2	0.2	0.2	0.2	5178
Replace right upper handlebar switch housing	0.2	0.2	0.2	0.2	5179
Replace right lower handlebar switch housing.....	0.4	0.4	0.4	0.4	5180
Replace rear stoplight switch – includes filling/bleeding brakes	0.3	0.3	0.3	0.3	5141
Replace oil pressure switch	0.1	0.1	0.1	0.1	5161
Replace neutral switch	0.8	0.8	0.8	0.8	5165
Lights					
Replace electrical bracket	0.4	0.4	0.4	0.4	5175
Replace headlight bracket – includes adjustment.....	0.2	0.2	0.2	0.2	5181
Replace headlight – include diagnosis.....	0.1	0.1	0.1	0.1	5185
Replace headlight housing – includes adjustment.....	0.7	0.4	0.7	0.7	5189
Replace indicator bulb or lens – include diagnosis	0.1	0.2	0.1	0.1	5190
Replace indicator lamp socket assembly	0.5	0.5	0.5	0.5	5191
Replace single light bulb/lens – include diagnosis.....	0.1	0.1	0.1	0.1	5197
Replace turn signal light assembly					
front.....	0.7	0.7	0.7	0.7	5201
rear.....	0.3	0.3	0.3	0.3	5205
Replace taillight assembly or circuit board.....	0.2	0.2	0.2	0.2	5215
Ignition System (Except 1200S)					
Diagnose electronic ignition	0.2	0.2	0.2	---	5001
Diagnose electronic ignition – wire.....	0.6	0.6	0.6	---	5002
Diagnose electronic ignition – wire.....	0.4	0.4	0.4	---	5003
Diagnose electronic ignition – wire.....	0.2	0.2	0.2	---	5004
Diagnose electronic ignition – mechanical.....	0.3	0.3	0.3	---	5005
Diagnose electronic ignition – wire.....	0.5	0.5	0.5	---	5007
Replace ignition module – operation.....	0.9	0.9	0.9	---	5009
Replace coil – resistance	0.2	0.2	0.2	---	5010
Replace coil – operation.....	0.3	0.3	0.3	---	5012
Replace bank angle sensor.....	0.3	0.3	0.3	---	5013
Replace cam sensor – operation	0.9	0.9	0.9	---	5369
Replace V.O.E.S., and or hose – includes checking timing .	0.2	0.2	0.2	---	5385

XLH MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	CAM, CEM	CGP, CJM	CAP	CHP	
<i>ELECTRICAL (Cont'd)</i>					
Battery/Horn					
Replace the battery	0.3	0.3	0.3	0.3	5705
Replace horn and/or bracket	0.1	0.1	0.1	0.1	5765
Accessories					
Replace mirror	0.1	0.1	0.1	0.1	6513

<p align="center">XL-SPORT MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">CHP</p>	
<p><i>XL-1200S IGNITION SYSTEM</i></p>		
<p><i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the XL Service Manual, Part No. 99484-01.</i></p>		
<p>Diagnostic check</p> <p>Diagnostic check</p> <p>Diagnostic check</p> <p>Diagnostic check</p>	<p>..... 0.1</p> <p>..... 0.3</p> <p>..... 0.4</p> <p>..... 0.3</p>	<p>7110</p> <p>7115</p> <p>7120</p> <p>7125</p>
<p>Chart A-1:</p>		
<p>No check engine lamp.....</p> <p>No check engine lamp.....</p> <p>No check engine lamp.....</p> <p>No check engine lamp.....</p>	<p>..... 0.3</p> <p>..... 0.4</p> <p>..... 0.3</p> <p>..... 0.4</p>	<p>7130</p> <p>7135</p> <p>7143</p> <p>7145</p>
<p>Chart A-2:</p>		
<p>Check engine lamp on continuously</p> <p>Check engine lamp on continuously</p> <p>Check engine lamp on continuously</p> <p>Check engine lamp on continuously</p>	<p>..... 0.4</p> <p>..... 0.4</p> <p>..... 0.5</p> <p>..... 0.5</p>	<p>7148</p> <p>7150</p> <p>7160</p> <p>7165</p>
<p>Chart A-3:</p>		
<p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p> <p>Engine cranks but will not start</p>	<p>..... 0.2</p> <p>..... 0.2</p> <p>..... 0.5</p> <p>..... 0.5</p> <p>..... 0.6</p> <p>..... 0.4</p> <p>..... 0.4</p> <p>..... 0.4</p> <p>..... 0.6</p> <p>..... 0.6</p> <p>..... 0.6</p> <p>..... 0.6</p> <p>..... 0.6</p> <p>..... 0.6</p> <p>..... 0.6</p> <p>..... 0.4</p> <p>..... 1.3</p> <p>..... 0.7</p> <p>..... 1.3</p>	<p>7180</p> <p>7185</p> <p>7210</p> <p>7215</p> <p>7225</p> <p>7226</p> <p>7227</p> <p>7228</p> <p>7240</p> <p>7241</p> <p>7245</p> <p>7250</p> <p>7255</p> <p>7260</p> <p>7265</p>
<p>Chart A-4:</p>		
<p>No spark, no check engine lamp.....</p> <p>No spark, no check engine lamp.....</p> <p>No spark, no check engine lamp.....</p> <p>No spark, no check engine lamp.....</p> <p>No spark, no check engine lamp.....</p> <p>No spark, no check engine lamp.....</p>	<p>..... 0.3</p> <p>..... 0.4</p> <p>..... 0.5</p> <p>..... 1.0</p> <p>..... 0.2</p> <p>..... 0.2</p>	<p>7270</p> <p>7285</p> <p>7291</p> <p>7295</p> <p>7305</p> <p>7310</p>
<p>Chart C:</p>		
<p>Misfire.....</p> <p>Misfire.....</p> <p>Misfire.....</p> <p>Misfire.....</p> <p>Misfire.....</p>	<p>..... 0.1</p> <p>..... 0.1</p> <p>..... 0.2</p> <p>..... 0.5</p> <p>..... 1.2</p>	<p>7520</p> <p>7525</p> <p>7535</p> <p>7540</p> <p>7541</p>

<p align="center">XL-SPORT MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">CHP</p>	
<p><i>XL-1200S IGNITION SYSTEM (Cont'd)</i></p>		
<p><i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the XL Service Manual, Part No. 99484-01.</i></p>		
<p>Code-12: Map sensor Map sensor Map sensor Map sensor Map sensor Map sensor Map sensor Map sensor Map sensor Map sensor</p>	<p>..... 0.2 0.6 0.3 0.4 0.4 0.4 0.3 0.5 0.4 0.4</p>	<p>7620 7625 7630 7635 7640 7645 7650 7655 7641 7642</p>
<p>Code-16: Battery voltage test Battery voltage test Battery voltage test Battery voltage test Battery voltage test Battery voltage test Battery voltage test Battery voltage test Battery voltage test</p>	<p>..... 0.3 0.4 0.4 0.4 0.9 0.3 0.8 0.5 0.3</p>	<p>7770 7775 7776 7780 7781 7782 7783 7784 7779</p>
<p>Code-24 & 25: Ignition coil Ignition coil Ignition coil Ignition coil Ignition coil Ignition coil</p>	<p>..... 0.4 0.3 0.4 0.5 0.4 0.3</p>	<p>7855 7856 7860 7865 7870 7875</p>
<p>Code-35: Tachometer Tachometer Tachometer Tachometer Tachometer</p>	<p>..... 0.4 0.4 0.4 0.4 0.4</p>	<p>7881 7882 7883 7884 7886</p>
<p>Code-44: Bank angle sensor Bank angle sensor Bank angle sensor Bank angle sensor Bank angle sensor Bank angle sensor</p>	<p>..... 0.1 0.3 0.4 0.3 0.2 0.3</p>	<p>7971 7972 7973 7974 7976 7975</p>
<p>Codes-52, 53, 54, and 55: Ignition module failure</p>	<p>..... 0.2</p>	<p>7913</p>

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
<p>SERVICE</p> <p>New</p> Set-up and pre-delivery 2.5 1,000 mile service 2.5			
<p>Regular</p> 2,500 mile maintenance 0.5 5,000 mile maintenance 2.5 7,500 mile maintenance 0.5 10,000 mile maintenance 4.5			
<p>CHASSIS</p> <p>Drive</p> Adjust secondary belt 0.3 Replace secondary belt 2.8 Replace rear drive sprockets – rear wheel sprocket 0.8			
<p>Wheels</p> Replace tire – includes balancing front 0.6 rear 0.7			
Replace wheel assembly – includes disc and sprocket exchange and balancing front 0.8 rear 0.9			
Replace rim, hub or spokes front 2.2 rear 2.3			
Replace wheel bearings front 0.6 rear 0.7			
True spoked wheel 0.4			

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
CHASSIS (Cont'd)			
Handlebars			
Replace handlebars – includes removing radio on FLHTC...	..... 1.2 .....	..... 1.2	2206
Replace clutch hand lever .....	..... 0.2 .....	..... 0.2	2221
Replace clutch hand lever bracket .....	..... 0.2 .....	..... 0.2	2226
Replace throttle control .....	..... 0.4 .....	..... 0.4	2231
Replace and adjust throttle control cables one or both .....	..... 0.6 .....	..... 0.6	2241
Replace both rubber handlebar mounts – includes removing radio on FLHTC .....	..... 1.0 .....	..... 1.0	2246
Replace rubber handlebar grip .....	..... 0.2 .....	..... 0.2	2251
Replace handlebar riser one or both – includes loosening radio on FLHTC .....	..... 1.0 .....	..... 1.0	2253
Replace handlebar clamp one or both – includes removing radio on FLHTC .....	..... 0.8 .....	..... 0.8	2254
Frame/Swing Arm/Front Fork			
Replace frame – includes removal and installation of all accessories and motorcycle components .....	..... 17.0 .....	..... 17.0	2306
Replace front fork assembly .....	..... 3.0 .....	..... 3.0	2311
Replace lower fork bracket and stem .....	..... 3.2 .....	..... 3.2	2316
Replace steering head cups and bearings, including bearing adjustment .....	..... 3.2 .....	..... 3.2	2321
Replace upper fork bracket .....	..... 2.7 .....	..... 2.7	2326
Adjust steering head bearings .....	..... 0.7 .....	..... 0.7	---
Change front fork oil .....	..... 0.7 .....	..... 0.7	---
Replace complete lock set .....	..... 0.4 .....	..... 0.4	2333
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation			
one side .....	..... 1.9 .....	..... 2.4	2341
both sides .....	..... 2.3 .....	..... 2.8	2342
Replace fork side			
one side .....	..... 1.2 .....	..... 1.2	2346
both sides .....	..... 1.5 .....	..... 1.5	2351
Replace fork tube			
one side .....	..... 1.9 .....	..... 1.9	2356
both sides .....	..... 2.2 .....	..... 2.2	2361
Replace front fork air line .....	..... 0.6 .....	..... 0.7	2363
Replace rear swing arm and/or bushings .....	..... 2.2 .....	..... 2.2	2366
Replace rear fork pivot shaft .....	..... 1.0 .....	..... 1.0	2368
Replace rear shock air line .....	..... 0.1 .....	..... 0.1	2369
Replace rear shock absorber assembly			
one side .....	..... 0.3 .....	..... 0.3	2371
both sides .....	..... 0.6 .....	..... 0.6	2376

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
CHASSIS (Cont'd)			
Frame/Swing Arm/Front Fork (Cont'd)			
Replace rear shock absorber component(s)			
one side.....	0.5	0.5	2381
both sides.....	0.8	0.8	2386
Replace jiffy stand			
complete.....	0.3	0.3	2391
spring and/or stand.....	0.2	0.2	2396
rubber bumper.....	0.1	0.1	2399
Replace motor rubber mount			
rear left.....	0.3	0.3	2397
rear right.....	0.5	0.5	2395
front.....	0.4	0.4	2398
Replace footboard.....	0.2	0.2	2394
Brakes			
Replace hydraulic brake line – includes filling/bleeding brakes			
front.....	1.0	1.0	2406
rear.....	0.4	0.4	2411
Replace rear master cylinder reservoir hose and/or hose..	0.2	0.2	2414
Replace brake pads			
front – each caliper.....	0.1	0.1	2416
rear.....	0.2	0.2	2421
Replace brake caliper – includes filling/bleeding brakes			
front – each caliper.....	0.4	0.4	2426
rear.....	1.0	1.0	2431
Replace brake disc			
front – one side.....	0.3	0.3	2436
– both sides.....	0.4	0.4	2437
rear.....	1.3	1.3	2441
Bleed brake caliper – one or two front calipers or rear caliper.....	0.2	0.2	2446
Overhaul brake caliper – includes filling/bleeding brakes			
front – each caliper.....	0.6	0.6	2451
rear.....	1.3	1.3	2456
Replace master cylinder assembly – includes filling/bleeding brakes			
front.....	0.4	0.4	2461
rear.....	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes			
front.....	0.6	0.6	2471
rear.....	0.7	0.7	2476
Replace rear brake pedal.....	0.3	0.3	2492
Replace front brake lever.....	0.1	0.1	2494

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
CHASSIS (Cont'd)			
Seats/Fenders/Tanks			
Replace seat	0.1	0.1	2506
Replace seat handrail	0.2	0.2	2508
Replace fender			
front	1.0	1.0	2526
rear	1.2	1.2	2531
Replace rear fender support.....	0.1	0.1	2536
Replace fuel tank assembly	0.8	0.8	2541
Replace fuel tank valve	0.2	0.2	2561
Replace fuel tank gauge	0.5	0.5	2563
Replace fuel tank gauge sending unit	0.6	0.6	2564
Replace any hose	0.3	0.3	2576
Replace oil filter.....	0.1	0.1	2582
Replace oil filter bracket.....	0.6	0.6	2584
Replace fuel tank console / instrument panel	0.3	0.3	2553
Replace fuel tank console / rubber molding strip	0.2	0.2	2557
Belt Guards			
Replace rear belt guard – debris deflector	0.2	0.2	2616
Exhaust System			
Replace complete exhaust system and/or gaskets	1.0	1.0	2626
Replace exhaust pipe			
right side.....	1.0	1.0	2631
left side	0.3	0.3	2636
Replace one muffler	0.2	0.2	2646
Replace any one exhaust shield	0.1	0.1	2661
Replace one muffler support	0.2	0.2	2666
ENGINE			
Remove and install engine – California vehicles only	4.3	4.3	3006
Remove and install engine.....	4.2	4.2	3006
Replace and adjust stabilizer – top	0.7	0.7	3005
– front	0.3	0.3	3007
Remove and replace oil pan for inspection/contamination			
with engine removed	0.3	0.3	3009

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ENGINE (Cont'd)			
Cylinder Head			
Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.			
front head	4.2	4.2	3101
rear head	4.2	4.2	3103
both heads	4.8	4.8	3104
Replace cylinder head			
one head	2.9	2.9	3106
both heads	3.5	3.5	3108
Replace valve seal or spring after cylinder head removal			
one seal or spring (intake or exhaust)	0.1	0.1	3131
both seals or springs (intake or exhaust)	0.2	0.2	3132
Replace cylinder head gasket/o-ring			
front cylinder	2.3	2.3	3140
rear cylinder	2.3	2.3	3142
both cylinders	2.7	2.7	3143
Replace rocker arm covers and/or gaskets			
front cylinder	0.8	0.8	3144
rear cylinder	0.8	0.8	3145
both cylinders	0.9	0.9	3148
Recondition rocker arms after heads are removed			
one head	0.7	0.7	3149
both heads	1.4	1.4	3150
Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support			
front cylinder	1.2	1.2	3147
rear cylinder	1.2	1.2	3152
both cylinders	1.4	1.4	3153
Replace cylinder o-ring/drain o-ring			
front cylinder	2.5	2.5	3161
rear cylinder	2.5	2.5	3163
both cylinders	2.9	2.9	3168
Replace crankcase umbrella valve			
one	1.1	1.1	3172
both	1.2	1.2	3174
Cylinder and Piston Recondition TOP END - includes disassembly, replacement of piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.2	5.2	3202
both pistons and cylinders	5.8	5.8	3203
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.6	5.6	3211
both pistons and cylinders	6.2	6.2	3212

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ENGINE (Cont'd)			
Cylinder and Piston (Cont'd)			
Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.			
one piston and cylinder	5.0	5.0	3207
both pistons and cylinders.....	5.6	5.6	3208
Replace piston rings – includes deglazing cylinder			
one cylinder.....	2.8	2.8	3206
both cylinders.....	3.4	3.4	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly			
one cylinder.....	3.4	3.4	3221
both cylinders.....	4.6	4.6	3231
Replace cylinder and piston			
one cylinder.....	2.7	2.7	3236
both cylinders.....	3.2	3.2	3246
Replace upper connecting rod bushing during upper end repair			
.....	0.4	0.4	3251
Replace one cylinder stud – cylinder removed.....			
.....	0.1	0.1	3253
Replace all eight cylinder studs – cylinders removed.....			
.....	0.5	0.5	3254
Cam Cover			
Replace lifter cover/gasket or lifter/and, or anti-rotation pin			
one	1.4	1.4	3307
both	1.6	1.6	3310
Replace push rod, push rod cover and/or O-ring or quad seal			
one or two same cylinder	1.4	1.4	3317
one each cylinder.....	1.6	1.6	3318
Replace cam cover and/or gasket.....			
.....	1.6	1.6	3325
Replace primary cam chain, sprockets and/or fastener			
.....	1.7	1.7	3327
Replace primary cam chain tensioner.....			
.....	1.7	1.7	3328
Replace cam support plate/O-rings.....			
.....	2.8	2.8	3335
Replace cam support plate			
.....	2.8	2.8	3337
Replace cam support bearing/cams/secondary cam chain/tensioner			
.....	3.0	3.0	3338
Replace oil pump and/or O-rings.....			
.....	2.6	2.6	3341
Replace cam bearing crankcase			
one bearing	2.8	2.8	3342
two bearings.....	2.9	2.9	3343
By pass valve inspection.....			
.....	2.7	2.7	3354

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ENGINE (Cont'd)			
Crankcase			
Replace crankcases – California vehicles only – includes remove and install engine	7.9	7.9	3406
Replace crankcases – includes remove and install engine	7.8	7.8	3406
Seal crankcase only	7.2	7.2	3407
Replace flywheels – includes remove and install engine ..	7.3	7.3	3411
Replace right side main bearing – California vehicles only	6.8	6.8	3412
Replace right side main bearing	6.7	6.7	3412
Piston jet/O-ring			
one	2.7	2.7	3413
both	3.1	3.1	3414
Filter housing and or O-rings	0.2	0.2	3415
Check flywheel trueness before assembly or after removal .	0.1	0.1	3420
True flywheels after removal – includes piston removal and			
reinstallation	0.5	0.5	3421
Recondition cylinder heads – head removed			
(for non-related repairs)			
one head	1.0	1.0	3425
both heads	2.0	2.0	3426
Replace piston rings – cylinders removed			
(for non-related repairs – deglaze only)	0.3	0.3	3428
Fuel System			
Replace air cleaner backing plate	0.1	0.1	3501
Replace air cleaner cover.....	0.1	0.1	3502
Replace carburetor.....	0.4	0.4	3506
Replace intake manifold and/or gasket			
one	0.6	0.6	3511
Replace carburetor float valve or jet, or check			
float level or seal	0.5	0.5	3516
Replace accelerator pump	0.5	0.5	3521
Replace enrichener cable	0.4	0.4	3523
Replace carburetor diaphragm.....	0.5	0.5	3524
Evaporative Emissions System			
Replace canister.....	0.1	0.1	3527
Replace vapor valve.....	0.1	0.1	3528
Replace any one hose	0.1	0.1	3529

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
<i>DRIVE/CLUTCH</i>			
Drive			
Adjust primary chain.....	0.2	0.2	---
Replace primary chain.....	0.9	0.9	4002
Replace engine sprocket.....	0.9	0.9	4003
Replace engine sprocket seal.....	1.3	1.3	4005
Replace primary cover.....	0.4	0.4	4007
Replace primary cover gasket.....	0.4	0.4	4009
Replace primary inspection cover and/or O-ring.....	0.1	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.1	2.1	4008
Replace shift lever sleeve and/or O-ring.....	0.4	0.4	4010
Clutch			
Adjust clutch.....	0.2	0.2	---
Replace release cable assembly.....	1.5	1.5	4006
Service the clutch – includes disassembly, cleaning, inspection repair, assembly, and adjustment.....	1.3	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	0.4	4016
Replace clutch release mechanism (ball ramp) and/or side cover.....	1.6	1.6	4018
<i>TRANSMISSION</i>			
Transmission Case			
Replace transmission case.....	5.3	5.3	4304
Replace transmission complete.....	4.9	4.9	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case in frame).....	4.6	4.6	4306
Replace transmission sprocket.....	2.2	2.2	4309
Replace main drive gear oil seal (in transmission case)....	2.3	2.3	4311
Replace mainshaft oil seal (in main drive gear).....	2.2	2.2	4316
Replace transmission shift shaft seal.....	2.2	2.2	4390
Replace side door gasket.....	2.8	2.8	4321
Replace shifter drum – includes removal, adjusting cam spacing and end play, and installation.....	1.4	1.4	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement.....	2.9	2.9	4336
Replace transmission top cover and/or gasket.....	1.2	1.2	4341
Replace shifter forks and/or shaft – includes checking gear engagement.....	1.8	1.8	4343
Replace side door bearing			
one.....	3.0	3.0	4348
both.....	3.1	3.1	4351
Replace transmission case countershaft bearing.....	2.9	2.9	4361
Replace main drive gear and/or bearing.....	3.2	3.2	4366
Replace transmission side cover gasket.....	0.9	0.9	4368
Replace oil pan and/or gasket or baffle			
NOTE: remove rear wheel.....	0.9	0.9	4378
Replace oil fill tube and/or cover, and/or gasket.....	0.3	0.3	4379

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ELECTRICAL			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
General			
Check and diagnose the electrical system			
Lights and accessories – excluding turn signals	0.3	0.3	5016
Replace connector housing.....	0.1		0.1
5022			
Replace connector anchor	0.1	0.1	5023
Charging circuit:			
diagnose charging system – regulator inspection	0.1	0.1	5306
diagnose charging system – regulator bleed.....	0.9	0.9	5307
diagnose charging system – milliamp draw.....	0.2	0.2	5308
diagnose charging system – total current draw.....	0.2	0.2	5310
replace regulator/stator connector.....	0.2	0.2	5311
diagnose charging system – open/grounded stator	1.8	1.8	5312
diagnose charging system – AC output	1.8	1.8	5314
diagnose charging system – regulator failure.....	1.0	1.0	5315
diagnose charging system – voltage output.....	1.0	1.0	5316
diagnose charging system – replace rotor	1.3	1.3	5319
Starter circuit:			
Starter inoperative – open/shorted/grounded motor	1.4	1.4	5817
Starter inoperative – start button.....	1.0	1.0	5818
Starter inoperative – solenoid clicks; poor starter or battery connections.....	0.2	0.2	5822
Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts	0.3	0.3	5823
Starter inoperative – solenoid clicks; poor starter to battery connections, ground connections, or bad solenoid contacts	0.2	0.2	5824
Starter circuit - cont'd:			
Starter inoperative – damaged motor.....	1.4	1.4	5825
Starter inoperative – relay clicks; open in relay wiring.....	0.3	0.3	5827
Starter inoperative – nothing clicks; poor relay ground	0.3	0.3	5828
Starter inoperative – no click; short to voltage	0.4	0.4	5830
Starter inoperative – nothing clicks; open in wiring to or from starter button	0.5	0.5	5831
Starter inoperative – starter relay	0.4	0.4	5832
Slow starter crank or starter stalls; poor starter to battery connections, ground connections.....	0.2	0.2	5835
Slow starter crank or starter stalls – binding.....	0.3	0.3	5836
Starter spins – clutch.....	1.5	1.5	5837
Starter inoperative – no click; TSM/TSSM.....	0.4	0.4	5838
Replace starter solenoid, contacts – includes starter motor removal.....	1.6	1.6	5845
Starter binding.....	1.6	1.6	5850
Replace starter solenoid – coil; includes starter motor removal	1.6	1.6	5860
Wiring			
Replace main wiring harness	3.6	3.6	5026
Main harness – locate and repair, open/short.....	0.5	0.5	5028
Replace rear fender wiring harness	0.8	0.8	5036
Replace any single wire			
ground wire.....	0.4	0.4	5038
light circuit	0.2	0.2	5039
accessory circuit.....	0.2	0.2	5043

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
General - cont'd			
Wiring (Cont'd)			
Repair/diagnose indicator lamp wiring	0.3	0.3	5048
Replace front fender wiring harness.....	0.9	0.9	5049
Replace ignition wiring harness.....	1.1	1.1	5050
Replace inter-connect harness.....	0.5	0.5	5052
Interconnect harness – repair short.....	0.5	0.5	6531
Interconnect harness – repair open	0.5	0.5	6532
Handlebar harness – repair short.....	0.4	0.4	6551
Handlebar harness – repair open.....	0.4	0.4	6552
Overlay harness – repair short.....	0.5	0.5	6560
Overlay harness – repair open	0.5	0.5	6561
Switches			
Replace ignition switch.....	0.5	0.5	5129
Replace rear stoplight switch	0.5	0.5	5141
Replace fuse	0.4	0.4	5145
Replace main circuit breaker.....	0.2	0.2	5147
Replace fuse block-one.....	0.3	0.3	5148
Replace fuse block-two	0.5	0.5	5151
Replace transmission neutral switch – includes diagnosis.....	0.3	0.3	5157
Replace oil pressure switch – includes diagnosis	0.3	0.3	5161
Replace rear stoplight relay.....	0.2	0.2	5169
Replace left upper handlebar switch	0.5	0.5	5171
Replace right upper handlebar switch.....	0.7	0.7	5173
Replace front brake light switch	0.7	0.7	5176
Replace left upper handlebar switch housing	0.2	0.2	5177
Replace left lower handlebar switch housing	0.3	0.3	5178
Replace right upper handlebar switch housing	0.2	0.2	5179
Replace right lower handlebar switch housing	0.7	0.7	5180
Replace handlebar (AM/FM/WB) switch	1.0	1.1	5183
Replace handlebar audio switch	1.0	1.0	5186
Replace any fairing switch.....	0.4	0.4	5192
Lights			
Replace headlight – includes diagnosis	0.1	0.1	5185
Replace headlight housing – includes adjustment	0.2	0.2	5189
Replace instrument bulb – includes diagnosis	0.2	0.2	5193
Replace taillight bulb or single light bulb or lens – includes diagnosis.....	0.1	0.1	5197
Replace taillight assembly or circuit board.....	0.2	0.2	5215
Replace turn signal light assembly			
front	0.4	0.4	5201
rear	0.4	0.4	5205
Replace rear turn signal bar	0.4	0.4	5207
Replace fender tip light bulb or lens – includes diagnosis			
front	0.1	0.1	5217
rear	0.1	0.1	5221
Replace fender tip lamp assembly			
front	0.1	0.1	5225
rear	0.3	0.3	5229
Replace passing lamp bulb – includes diagnosis.....	0.1	0.1	5227
Replace passing lamp	0.4	0.4	5230
Replace passing lamp bracket	0.7	0.7	5232
Replace King Tour-Pak light bulb or lens – includes diagnosis.....	---	0.2	5233
Replace King Tour-Pak light assembly	---	0.5	5234

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Turn Signal/Security System			
No security lamp.....	0.5	0.5	6735
No security lamp.....	0.5	0.5	6736
No security lamp.....	0.5	0.5	6737
No security lamp.....	0.5	0.5	6738
No security lamp.....	0.1	0.1	6739
No security lamp.....	0.2	0.2	6740
No security lamp.....	0.3	0.3	6741
No security lamp.....	0.3	0.3	6742
No security lamp.....	0.3	0.3	6743
No security lamp.....	0.2	0.2	6744
No security lamp.....	0.3	0.3	6745
Security lamp on continuously.....	0.2	0.2	6750
Security lamp on continuously.....	0.4	0.4	6751
Security lamp on continuously.....	0.5	0.5	6752
Turn signal error 2A.....	0.9	0.9	6773
Turn signal error 2B.....	0.6	0.6	6777
Turn signal error 2B.....	0.5	0.5	6778
Turn signal error 2B.....	0.7	0.7	6779
Turn signal error 2B.....	0.7	0.7	6780
Turn signal error 2C.....	0.8	0.8	6784
Turn signal error 2C.....	0.8	0.8	6785
Turn signal error 2C.....	1.2	1.2	6786
Turn signal error 3A.....	0.3	0.3	6790
Turn signal error 3A.....	0.2	0.2	6791
Turn signal error 3A.....	0.1	0.1	6792
Turn signal error 3A.....	0.3	0.3	6793
Turn signal error 3B.....	0.1	0.1	6796
Turn signal error 3B.....	0.3	0.3	6797
Turn signal error 3B.....	0.3	0.3	6798
Turn signal error 3B.....	0.3	0.3	6799
Turn signal error 3B.....	0.3	0.3	6800
Turn signal error 3C.....	0.3	0.3	6805
Turn signal error 3C.....	0.3	0.3	6806
Turn signal error 3C.....	0.2	0.2	6807
Turn signal error 3C.....	0.3	0.3	6808
Turn signal error 3D.....	0.4	0.4	6810
Turn signal error 3D.....	0.8	0.8	6811
Turn signal error 3D.....	0.5	0.5	6812
Turn signal error 3D.....	0.4	0.4	6813
Turn signal error 3D.....	0.5	0.5	6814
Turn signal error 3D.....	0.8	0.8	6815
Turn signal error 3D.....	0.5	0.5	6816
Turn signal error 4A.....	0.2	0.2	6820
Turn signal error 4A.....	0.2	0.2	6821
Turn signal error 4A.....	0.4	0.4	6822
*Turn signal error 4A.....	0.3	0.3	6823
Turn signal error 4A.....	0.5	0.5	6824

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Turn Signal/Security System - cont'd			
Ignition enable output high .....	..... 0.3 .....	..... 0.3	6827
Ignition enable output high .....	..... 0.3 .....	..... 0.3	6828
Alarm output .....	..... 0.3 .....	..... 0.3	6830
Alarm output .....	..... 0.3 .....	..... 0.3	6831
Alarm output .....	..... 0.3 .....	..... 0.3	6832
Alarm output .....	..... 0.4 .....	..... 0.4	6833
Alarm output .....	..... 0.3 .....	..... 0.3	6834
Alarm output .....	..... 0.3 .....	..... 0.3	6835
Starter output high .....	..... 0.3 .....	..... 0.3	6840
Starter output high .....	..... 0.2 .....	..... 0.2	6831
Starter output high .....	..... 0.3 .....	..... 0.3	6842
Accelerometer fault .....	..... 0.2 .....	..... 0.2	6845
Ignition System			
Diagnostic check .....	..... 0.2 .....	..... 0.2	7110
Diagnostic check .....	..... 0.3 .....	..... 0.3	7115
Diagnostic check .....	..... 0.4 .....	..... 0.4	7120
Diagnostic check .....	..... 0.3 .....	..... 0.3	7125
Chart A-1:			
No check engine lamp .....	..... 0.2 .....	..... 0.2	7130
No check engine lamp .....	..... 0.3 .....	..... 0.3	7135
No check engine lamp .....	..... 0.3 .....	..... 0.3	7143
No check engine lamp .....	..... 0.6 .....	..... 0.6	7145
Chart A-2:			
Check engine lamp on continuously .....	..... 0.3 .....	..... 0.3	7148
Check engine lamp on continuously .....	..... 0.1 .....	..... 0.1	7150
Check engine lamp on continuously .....	..... 0.5 .....	..... 0.5	7160
Check engine lamp on continuously .....	..... 0.4 .....	..... 0.4	7165
Chart A-3:			
Engine cranks but will not start .....	..... 0.2 .....	..... 0.2	7180
Engine cranks but will not start .....	..... 0.2 .....	..... 0.2	7185
Engine cranks but will not start .....	..... 0.4 .....	..... 0.4	7210
Engine cranks but will not start .....	..... 0.5 .....	..... 0.5	7215
Engine cranks but will not start .....	..... 0.6 .....	..... 0.6	7225
Engine cranks but will not start .....	..... 0.6 .....	..... 0.6	7226
Engine cranks but will not start .....	..... 0.7 .....	..... 0.7	7227
Engine cranks but will not start .....	..... 0.7 .....	..... 0.7	7228
Engine cranks but will not start .....	..... 1.5 .....	..... 1.5	7230
Engine cranks but will not start .....	..... 0.8 .....	..... 0.8	7231
Engine cranks but will not start .....	..... 0.7 .....	..... 0.7	7235
Engine cranks but will not start .....	..... 0.6 .....	..... 0.6	7245
Engine cranks but will not start .....	..... 0.6 .....	..... 0.6	7250
Engine cranks but will not start .....	..... 1.9 .....	..... 1.9	7255

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
<i>ELECTRICAL (Cont'd)</i>			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Ignition System - cont'd			
Chart A-4:			
No spark, no check engine lamp	0.3	0.3	7270
No spark, no check engine lamp	0.4	0.4	7285
No spark, no check engine lamp	0.5	0.5	7291
No spark, no check engine lamp	1.0	1.0	7295
No spark, no check engine lamp	0.2	0.2	7305
No spark, no check engine lamp	0.4	0.4	7310
Chart C:			
Misfire	0.2	0.2	7520
Misfire	0.5	0.5	7525
Misfire	0.5	0.5	7535
Misfire	0.6	0.6	7540
Misfire	0.6	0.6	7541
Code-12:			
Map sensor	0.2	0.2	7620
Map sensor	1.7	1.7	7625
Map sensor	0.6	0.6	7630
Map sensor	0.4	0.4	7635
Map sensor	0.4	0.4	7640
Map sensor	0.4	0.4	7641
Map sensor	0.4	0.4	7642
Map sensor	0.5	0.5	7645
Map sensor	0.7	0.7	7650
Map sensor	0.6	0.6	7655
Code-16:			
Battery voltage test	0.4	0.4	7770
Battery voltage test	0.7	0.7	7775
Battery voltage test	0.7	0.7	7776
Battery voltage test	0.9	0.9	7779
Battery voltage test	0.8	0.8	7780
Battery voltage test	1.1	1.1	7781
Battery voltage test	0.8	0.8	7782
Battery voltage test	1.3	1.3	7783
Battery voltage test	1.0	1.0	7784
Code-24 & 25:			
Ignition coil	0.3	0.3	7855
Ignition coil	0.6	0.6	7856
Ignition coil	0.3	0.3	7860
Ignition coil	0.3	0.3	7865
Ignition coil	0.2	0.2	7870
Ignition coil	0.3	0.3	7875

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ELECTRICAL (Cont'd)			
Ignition System - cont'd			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Code-35:			
Tachometer	0.5	0.4	7881
Tachometer	0.4	0.3	7882
Tachometer	0.5	0.4	7883
Tachometer	0.5	0.4	7884
Tachometer	0.5	0.4	7886
Code-41:			
Crank position sensor.....	0.4	0.4	7980
Crank position sensor.....	0.9	0.9	7981
Crank position sensor.....	0.4	0.4	7982
Crank position sensor.....	1.1	1.1	7983
Crank position sensor.....	1.1	1.1	7984
Crank position sensor.....	1.1	1.1	7985
Crank position sensor.....	0.5	0.5	7986
Crank position sensor.....	0.5	0.5	7987
Crank position sensor.....	0.3	0.3	7988
Code-44:			
Bank angle sensor	0.2	0.2	7971
Bank angle sensor	0.3	0.3	7972
Bank angle sensor	0.4	0.4	7973
Bank angle sensor	0.2	0.2	7974
Bank angle sensor	0.3	0.3	7975
Bank angle sensor	0.2	0.2	7976
Codes-52, 53, 54, and 55:			
Ignition module failure	0.2	0.2	7913
Battery/Horn			
Replace the battery	0.2	0.2	5705
Replace horn and/or bracket.....	0.1	0.1	5765
Replace battery tray	0.3	0.3	5767
Replace battery cable	0.2	0.2	5769
Instruments – Includes Diagnosis			
Replace speedometer – cosmetics only.....	0.3	0.3	6003
Electronic speedometer:			
Diagnose inoperative, inaccurate or erratic speedometer – switch	0.3	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer	0.1	0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer – wiring.....	0.2	0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer – replace	0.5	0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer – wiring.....	0.4	0.4	6008
Diagnose inoperative, inaccurate or erratic speedometer – sensor	0.5	0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer – open	0.6	0.6	6013

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
ELECTRICAL (Cont'd)			
Instruments – Includes Diagnosis - cont'd			
Diagnose inoperative, inaccurate or erratic speedometer – LED failure.....	..... 0.2 .....	..... 0.2	6014
Diagnose inoperative, inaccurate or erratic speedometer – wires.....	..... 0.4 .....	..... 0.4	6016
Odometer inoperable.....	..... 0.2 .....	..... 0.2	6020
Diagnose inoperative, inaccurate or erratic speedometer – internal.....	..... 0.5 .....	..... 0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground.....	..... 0.5 .....	..... 0.5	6024
Diagnose inoperative, inaccurate, or erratic speedometer – debris or sensor.....	..... 0.5 .....	..... 0.5	6029
Replace tachometer.....	..... 0.3 .....	..... 0.3	6009
Replace indicator panel lens.....	..... 0.3 .....	..... 0.3	6018
Replace voltmeter or fuel gauge.....	..... 0.3 .....	..... 0.3	6021
Replace oil pressure or air temperature gauge.....	..... 0.5 .....	..... 0.5	6026
Accessories			
Replace windshield.....	..... 0.1 .....	..... 0.1	6203
Replace inner fairing.....	..... 1.7 .....	..... 1.8	6209
Replace outer fairing or support brace.....	..... 0.6 .....	..... 0.6	6255
Replace inner fairing bracket.....	..... 0.7 .....	..... 0.8	6265
Replace fairing cap.....	..... 0.3 .....	..... 0.3	6271
Replace chrome fairing skirt.....	..... 0.2 .....	..... 0.2	6273
Replace saddlebag mounting bracket.....	..... 0.2 .....	..... 0.2	6253
Replace saddlebag guard – complete.....	..... --- .....	..... 0.3	6254
Replace single saddlebag guard rail.....	..... 0.1 .....	..... 0.2	6256
Replace saddlebag.....	..... 0.2 .....	..... 0.2	6257
Replace saddlebag lock.....	..... 0.2 .....	..... 0.2	6259
Replace saddlebag cover - one.....	..... 0.2 .....	..... 0.2	6260
Replace saddlebag lock or a Tour-Pak lock or latch.....	..... 0.2 .....	..... 0.2	6261
Replace one saddlebag tether strap.....	..... 0.1 .....	..... 0.1	6262
Replace one frame sidecover.....	..... 0.1 .....	..... 0.1	6263
Replace Tour-Pak hinge.....	..... --- .....	..... 0.3	6264
Replace nameplate Tour-Pak.....	..... --- .....	..... 0.2	6266
Replace Tour-Pak cover.....	..... --- .....	..... 0.7	6270
Change lock-set.....	..... 0.3 .....	..... 0.5	6276
Replace bumper			
front.....	..... --- .....	..... 0.3	6303
rear.....	..... 0.2 .....	..... 0.2	6305
Replace highway bar			
front.....	..... 0.3 .....	..... 0.3	6353
rear – left.....	..... 0.3 .....	..... 0.3	6355
– right.....	..... 0.4 .....	..... 0.4	6357
Replace Tour-Pak mount/luggage rack.....	..... 0.6 .....	..... 0.7	6453
Replace Tour-Pak – includes lights and brackets, antenna assembly and backrest.....	..... --- .....	..... 0.9	6509
Replace mirror.....	..... 0.1 .....	..... 0.1	6513
Replace backrest.....	..... --- .....	..... 0.2	6515

FLHT, FLHTC, FLHTC-SHRINE MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	DDV	DJV/DGV	
<i>ELECTRICAL (Cont'd)</i>			
Sound System – Diagnosis, Repair			
Replace radio chassis	---	0.4	6601
Replace one front speaker	---	0.3	6605
Replace one speaker grill – front	---	0.2	6607
Replace front antenna lead	---	0.8	6609
Replace antenna mast mount	---	0.2	6611
Complete stereo antenna inspection	---	0.2	6615
Replace stereo antenna mast	---	0.3	6617
<i>SIDECAR</i>			
2001 Accessory Sidecar			
Replace sidecar windshield	0.2	0.2	6901
Replace sidecar fender	0.8	0.8	6904
Replace seat	0.2	0.2	6907
Replace seat cable	0.5	0.5	6910
Replace liner (carpeting)	0.4	0.4	6913
Replace brake pads	0.2	0.2	6926
Replace brake caliper	0.3	0.3	6927
Replace brake disc	0.3	0.3	6929
Replace wheel	0.7	0.7	6931
Replace axle	0.8	0.8	6934
Removal of sidecar for service and reattachment –			
includes realignment	1.1	1.1	6954
Sidecar alignment	0.8	0.8	6956
Sidecar tub removal	0.3	0.3	6958

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
SERVICE			
New			
Set-up and pre-delivery (includes setting SWR)	2.5	2.5	---
1,000 mile service	2.5	2.5	---
Regular			
2,500 mile maintenance	0.5	0.5	---
5,000 mile maintenance	2.5	2.5	---
7,500 mile maintenance	0.5	0.5	---
10,000 mile maintenance	4.5	4.5	---
CHASSIS			
Drive			
Adjust secondary belt	0.3	0.3	---
Replace secondary belt	2.8	2.8	2011
Replace rear wheel sprocket	0.8	0.8	2021
Wheels			
Replace tire and/or wheel assembly - includes balancing			
front	0.6	0.6	2106
rear	0.7	0.7	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing			
front	0.8	0.8	2113
rear	0.9	0.9	2114
Replace rim, hub or spokes			
front	2.2	2.2	2116
rear	2.3	2.3	2121
True spoked wheel	0.4	0.4	2156
Replace wheel bearings and/or adjust bearing end play and/or replace seals			
front	0.6	0.6	2136
rear	0.7	0.7	2141

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
CHASSIS (Cont'd)			
Handlebars			
Replace handlebars - includes removing radio.....	..... 1.2 .....	..... 1.2	2206
Replace clutch hand lever.....	..... 0.2 .....	..... 0.2	2221
Replace clutch hand lever bracket.....	..... 0.2 .....	..... 0.2	2226
Replace throttle control.....	..... 0.6 .....	..... 0.6	2231
Replace throttle control cable - one or more - includes all adjustments.....	..... 1.1 .....	..... 1.1	2241
Replace both rubber handlebar mounts - includes removing radio.....	..... 1.0 .....	..... 1.0	2246
Replace rubber handlebar grip.....	..... 0.2 .....	..... 0.2	2251
Replace handlebar riser			
one or both - includes loosening radio.....	..... 1.0 .....	..... 1.0	2253
Replace handlebar clamp			
one or both - includes removing radio.....	..... 0.8 .....	..... 0.8	2254
Frame/Swing Arm/Front Fork			
Replace frame – includes removal and installation of all accessories and motorcycle components.....	..... 17.5 .....	..... 17.5	2306
Replace front fork assembly.....	..... 3.0 .....	..... 3.0	2311
Replace lower fork bracket and stem.....	..... 3.2 .....	..... 3.2	2316
Replace steering head cups and bearings, including bearing adjustment.....	..... 3.2 .....	..... 3.2	2321
Replace upper fork bracket.....	..... 2.7 .....	..... 2.7	2326
Adjust steering head bearings.....	..... 0.7 .....	..... 0.7	---
Change front fork oil.....	..... 0.7 .....	..... 0.7	---
Replace complete lock set.....	..... 0.4 .....	..... 0.4	2333
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation			
one side.....	..... 2.4 .....	..... 2.4	2341
both sides.....	..... 2.8 .....	..... 2.8	2342
Replace fork side			
one side.....	..... 1.2 .....	..... 1.2	2346
both sides.....	..... 1.5 .....	..... 1.5	2351
Replace fork tube			
one side.....	..... 1.9 .....	..... 1.9	2356
both sides.....	..... 2.2 .....	..... 2.2	2361
Replace front fork air line.....	..... 0.7 .....	..... 0.7	2363
Replace rear swing arm and/or bushings.....	..... 2.2 .....	..... 2.2	2366
Replace rear fork pivot shaft.....	..... 1.0 .....	..... 1.0	2368
Replace rear shock air line.....	..... 0.1 .....	..... 0.1	2369
Replace rear shock absorber assembly			
one side.....	..... 0.3 .....	..... 0.3	2371
both sides.....	..... 0.6 .....	..... 0.6	2376

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
CHASSIS (Cont'd)			
Frame/Swing Arm/Front Fork (Cont'd)			
Replace rear shock absorber component(s)			
one side.....	0.5	0.5	2381
both sides.....	0.8	0.8	2386
Replace jiffy stand			
complete.....	0.3	0.3	2391
spring and/or stand.....	0.2	0.2	2396
rubber bumper.....	0.1	0.2	2399
Replace motor rubber mount			
rear left.....	0.3	0.3	2397
rear right.....	0.5	0.5	2395
front.....	0.4	0.4	2398
Replace footboard.....	0.2	0.4	2394
Brakes			
Replace hydraulic brake line – includes filling/bleeding brakes			
front.....	1.0	1.0	2406
rear.....	0.4	0.4	2411
Replace rear master cylinder reservoir and/or hose.....	0.2	0.2	2414
Replace brake pads			
front – each caliper.....	0.1	0.1	2416
rear.....	0.2	0.2	2421
Replace brake caliper – includes filling/bleeding brakes			
front – each caliper.....	0.4	0.4	2426
rear.....	1.0	1.0	2431
Replace brake disc			
front – one side.....	0.3	0.3	2436
– both sides.....	0.4	0.4	2437
rear.....	1.3	1.3	2441
Bleed brake caliper – one or two front calipers or rear caliper.....	0.2	0.2	2446
Overhaul brake caliper – includes filling/bleeding brakes			
front – each caliper.....	0.6	0.6	2451
rear.....	1.3	1.3	2456
Replace master cylinder assembly – includes filling/bleeding brakes			
front.....	0.4	0.4	2461
rear.....	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes			
front.....	0.6	0.6	2471
rear.....	0.7	0.7	2476
Replace rear brake pedal.....	0.3	0.3	2492
Replace front brake lever.....	0.1	0.1	2494

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
CHASSIS (Cont'd)			
Seats/Fenders/Tanks			
Replace seat	0.1	0.1	2506
Replace seat handrail	0.2	0.2	2508
Replace fender			
front	1.0	1.0	2526
rear	1.5	1.5	2531
Replace rear fender support.....	0.2	0.2	2536
Replace fuel tank assembly	1.2	1.2	2541
Replace fuel tank gauge	0.5	0.5	2563
Replace gasoline level sending unit.....	0.6	0.6	2564
Replace fuel tank check valve assembly in/out/O-ring.....	0.8	0.8	2567
Replace any hose	0.3	0.3	2576
Replace oil filter.....	0.1	0.1	2582
Replace oil filter bracket.....	0.6	0.6	2584
Replace canopy gasket.....	0.5	0.5	2570
Replace fuel pump	0.6	0.6	2573
Replace fuel filter.....	0.6	0.6	2575
Replace fuel hose or any hose inside tank	0.6	0.6	2579
Belt Guards			
Replace rear belt guard – debris deflector	0.2	0.2	2616
Exhaust System			
Replace complete exhaust system and/or gaskets	1.0	1.0	2626
Replace exhaust pipe			
right side.....	1.0	1.0	2631
left side.....	0.3	0.3	2636
Replace one muffler	0.2	0.2	2646
Replace any one exhaust shield	0.1	0.1	2661
Replace one muffler support	0.2	0.2	2666
ENGINE			
General			
Remove and install engine – California vehicles only	4.6	4.9	3006
Remove and install engine	4.5	4.8	3006
Replace and adjust stabilizer – top	0.8	0.8	3005
– front	0.3	0.3	3007
Remove and replace oil pan for inspection/contamination			
with engine removed	0.3	0.3	3009

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
ENGINE (Cont'd)			
Cylinder Head			
Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.			
front head	4.5	4.9	3101
rear head	4.5	4.9	3103
both heads	5.1	5.5	3104
Replace cylinder head			
one head	3.2	3.6	3106
both heads	3.8	4.2	3108
Replace valve seal or spring after cylinder head removal			
one seal or spring (intake or exhaust)	0.1	0.1	3131
both seals or springs (intake or exhaust)	0.2	0.2	3132
Replace cylinder head gasket/o-ring			
front cylinder	2.6	3.0	3140
rear cylinder	2.6	3.0	3142
both cylinders	3.0	3.4	3143
Replace rocker arm covers and/or gaskets			
front cylinder	0.8	0.8	3144
rear cylinder	0.8	0.8	3145
both cylinders	0.9	0.9	3148
Recondition rocker arms after heads are removed			
one head	0.7	0.7	3149
both heads	1.4	1.4	3150
Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support			
front cylinder	1.2	1.6	3147
rear cylinder	1.2	1.6	3152
both cylinders	1.4	1.8	3153
Replace cylinder o-ring/drain o-ring			
front cylinder	2.8	3.2	3161
rear cylinder	2.8	3.2	3163
both cylinders	3.2	3.6	3168
Replace crankcase umbrella valve			
one	1.1	1.1	3172
both	1.2	1.2	3174
Cylinder and Piston			
Recondition TOP END - includes disassembly, replacement of piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.5	5.9	3202
both pistons and cylinders	6.1	6.5	3203
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.9	6.3	3211
both pistons and cylinders	6.5	6.9	3212

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
ENGINE (Cont'd)			
Cylinder and Piston (Cont'd)			
Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.			
one piston and cylinder	5.3	5.7	3207
both pistons and cylinders.....	5.9	6.3	3208
Replace piston rings – includes deglazing cylinder			
one cylinder.....	3.1	3.5	3206
both cylinders.....	3.7	4.1	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly			
one cylinder.....	3.7	4.1	3221
both cylinders.....	4.9	5.3	3231
Replace cylinder and piston			
one cylinder.....	3.0	3.4	3236
both cylinders.....	3.5	3.9	3246
Replace upper connecting rod bushing during upper end repair			
.....	0.4	0.4	3251
Replace one cylinder stud – cylinder removed.....			
.....	0.1	0.1	3253
Replace all eight cylinder studs – cylinders removed.....			
.....	0.5	0.5	3254
Cam Cover			
Replace lifter cover/gasket or lifter/and, or anti-rotation pin			
one	1.4	1.8	3307
both	1.6	2.0	3310
Replace push rod, push rod cover and/or O-ring or quad seal			
one or two same cylinder	1.4	1.8	3317
one each cylinder.....	1.6	2.0	3318
Replace cam cover and/or gasket.....			
.....	1.6	2.0	3325
Replace primary cam chain, sprockets and/or fastener			
.....	1.7	2.1	3327
Replace primary cam chain tensioner			
.....	1.7	2.1	3328
Replace cam support plate/O-rings.....			
.....	2.8	3.2	3335
Replace cam support plate			
.....	2.8	3.2	3337
Replace cam support bearing/cams/secondary cam chain/tensioner			
.....	3.0	3.4	3338
Replace oil pump and/or O-rings.....			
.....	2.6	3.0	3341
Replace cam bearing crankcase			
one bearing	2.8	3.2	3342
two bearings.....	2.9	3.3	3343
By pass valve inspection.....			
.....	2.7	3.1	3354

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
ENGINE (Cont'd)			
Crankcase			
Replace crankcases – California vehicles only – includes remove and install engine	8.2	8.6	3406
Replace crankcases – includes remove and install engine	8.1	8.5	3406
Seal crankcase only	7.6	8.0	3407
Replace flywheels – includes remove and install engine ..	7.6	8.0	3411
Replace right side main bearing – California vehicles only	7.1	7.5	3412
Replace right side main bearing	7.0	7.4	3412
Piston jet/O-ring			
one	3.0	3.4	3413
both	3.4	3.8	3414
Filter housing and or O-rings	0.2	0.2	3415
Check flywheel trueness before assembly or after removal .	0.1	0.1	3420
True flywheels after removal – includes piston removal and			
reinstallation	0.5	0.5	3421
Recondition cylinder heads – head removed			
(for non-related repairs)			
one head	1.0	1.0	3425
both heads	2.0	2.0	3426
Replace piston rings – cylinders removed			
(for non-related repairs – deglaze only)	0.3	0.3	3428
Fuel System			
Replace air cleaner backing plate	0.2	0.2	3501
Replace air cleaner cover.....	0.1	0.1	3502
Replace induction module – includes making cruise			
control adjustment.....	1.0	1.0	3508
Replace induction module seal	1.0	1.0	3510
Replace external fuel supply/return hose - one or both	0.6	0.6	3514
Evaporative Emissions System			
Replace canister.....	0.1	0.1	3527
Replace vapor valve.....	0.1	0.1	3528
Replace any one hose	0.1	0.1	3529

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
<i>DRIVE/CLUTCH</i>			
Drive			
Adjust primary chain.....	0.2	0.2	---
Replace primary chain.....	0.9	0.9	4002
Replace engine sprocket.....	0.9	0.9	4003
Replace engine sprocket seal.....	1.3	1.3	4005
Replace primary cover.....	0.4	0.4	4007
Replace primary cover gasket.....	0.4	0.4	4009
Replace primary inspection cover and/or O-ring.....	0.1	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.1	2.1	4008
Clutch			
Adjust clutch.....	0.2	0.2	---
Replace release cable assembly.....	1.8	1.8	4006
Service the clutch – includes disassembly, cleaning, inspection repair, assembly, and adjustment.....	1.3	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	0.4	4016
Replace clutch release (ball ramp) and/or side cover.....	1.6	1.6	4018
<i>TRANSMISSION</i>			
Transmission Case			
Replace transmission case.....	5.3	5.3	4304
Replace transmission complete.....	4.9	4.9	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case in frame).....	4.6	4.6	4306
Replace transmission sprocket.....	2.2	2.2	4309
Replace main drive gear oil seal (in transmission case)....	2.3	2.3	4311
Replace mainshaft oil seal (in main drive gear).....	2.2	2.2	4316
Replace side door gasket.....	2.8	2.8	4321
Replace shifter drum – includes removal, adjusting cam spacing and end play, and installation.....	1.4	1.4	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement.....	3.0	3.0	4336
Replace transmission top cover and/or gasket.....	1.2	1.2	4341
Replace shifter forks and/or shaft – includes checking gear engagement.....	0.9	0.9	4343
Replace side door bearing			
one.....	3.0	3.0	4348
both.....	3.1	3.1	4351
Replace transmission case countershaft bearing.....	2.9	2.9	4361
Replace main drive gear and/or bearing.....	3.2	3.2	4366
Replace transmission side cover gasket.....	0.9	0.9	4368
Replace oil pan and/or gasket or baffle			
Note: Removal of rear wheel may be necessary.....	0.9	0.9	4378
Replace oil fill tube and/or cover, and/or gasket.....	0.3	0.3	4379
Replace transmission shift shaft seal.....	2.2	2.2	4390

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
ELECTRICAL			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
General			
Check and diagnose the electrical system			
Lights and accessories – excluding turn signals	0.3	0.3	5016
Replace connector housing.....	0.1	0.1	5022
Replace connector anchor	0.1	0.1	5023
Charging circuit:			
diagnose charging system – regulator inspection	0.1	0.1	5306
diagnose charging system – regulator bleed.....	0.9	0.9	5307
diagnose charging system – milliamp draw.....	0.2	0.2	5308
diagnose charging system – total current draw.....	0.2	0.2	5310
replace regulator/stator connector.....	0.2	0.2	5311
diagnose charging system – open grounded stator	1.8	1.8	5312
diagnose system – AC output	1.8	1.8	5314
diagnose charging system – regulator failure.....	1.0	1.0	5315
diagnose charging system – voltage output	1.0	1.0	5316
diagnose charging system – replace rotor.....	1.3	1.3	5319
Starter circuit:			
Starter inoperative – open/shorted/grounded motor	1.4	1.4	5817
Starter inoperative – start button	1.0	1.0	5818
Starter inoperative – solenoid clicks; poor starter			
or battery connections.....	0.2	0.2	5822
Starter inoperative – solenoid clicks; poor relay or			
solenoid connections, or bad relay contacts	0.3	0.3	5823
Starter inoperative – solenoid clicks; poor starter			
to battery connections, ground connections, or bad			
solenoid contacts	0.2	0.2	5824
Starter inoperative – damaged motor.....	1.4	1.4	5825
Starter inoperative – relay click; open in relay wiring	0.3	0.3	5827
Starter inoperative – nothing clicks; poor relay ground ..	0.2	0.2	5828
Starter inoperative – nothing clicks; short to voltage.....	0.3	0.3	5830
Starter inoperative – nothing clicks; open in			
wiring to or from starter button	0.5	0.5	5831
Starter circuit - cont'd:			
Starter inoperative – starter relay	0.4	0.4	5832
Slow starter crank or starter stalls; poor starter to			
battery connections, ground connections, or bad solenoid			
contacts	0.2	0.2	5835
Slow starter crank or starter stalls; jackshaft binding			
or defective starter motor	0.3	0.3	5836
Starter spins – clutch.....	1.5	1.5	5837
Starter inoperative – nothing clicks; TSM/TSSM	0.3	0.3	5838
Replace starter solenoid – contacts; includes starter			
motor removal	1.6	1.6	5845
Starter binding.....	1.6	1.6	5850
Replace starter solenoid – coil; includes starter motor			
removal.....	1.6	1.6	5860

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Wiring			
Replace main wiring harness	3.6	3.6	5026
Replace ultra overlay.....	1.8	1.8	5027
Main harness – locate and repair open/short.....	0.5	0.5	5028
Replace rear fender wiring harness	0.8	0.8	5036
Replace EFI harness.....	1.7	1.7	5033
Replace any single wire			
ground wire.....	0.4	0.4	5038
light circuit	0.2	0.2	5039
accessory circuit.....	0.2	0.2	5043
Repair/diagnose indicator lamp wiring	0.3	0.3	5048
Replace front fender wiring harness.....	0.9	0.9	5049
Replace ignition wiring harness.....	1.1	1.1	5050
Replace inter connect harness.....	0.5	0.5	5052
Interconnect harness – repair short.....	0.5	0.5	6531
Interconnect harness – repair open	0.5	0.5	6532
Handlebar harness – repair short.....	0.4	0.4	6551
Handlebar harness – repair open.....	0.4	0.4	6552
Overlay harness – repair short.....	0.5	0.5	6560
Overlay harness – repair open.....	0.5	0.5	6561
Replace front headset harness	---	0.6	6616
Switches			
Replace ignition switch.....	0.5	0.5	5129
Replace rear stoplight switch	0.5	0.5	5141
Replace fuse	0.4	0.4	5145
Replace main circuit breaker.....	0.2	0.2	5147
Replace fuse block-one.....	0.3	0.3	5148
Replace fuse block-two	0.5	0.5	5151
Replace transmission neutral switch – includes diagnosis.....	0.3	0.3	5157
Replace oil pressure switch – includes diagnosis	0.3	0.3	5161
Replace rear stoplight relay.....	0.2	0.2	5169
Replace left upper handlebar switch	0.5	0.5	5171
Replace right upper handlebar switch.....	0.7	0.7	5173
Replace front brake light switch	0.7	0.7	5176
Replace left upper handlebar switch housing	0.2	0.2	5177
Replace left lower handlebar switch housing	0.3	0.3	5178
Replace right upper handlebar switch housing	0.2	0.2	5179
Replace right lower handlebar switch housing.....	0.7	0.7	5180
Replace handlebar (cruise set) switch	---	1.2	5182
Replace handlebar mode switch	1.1	1.1	5183
Replace handlebar (PTT) switch.....	---	0.8	5184
Replace handlebar audio switch	1.0	1.0	5186
Replace any fairing switch.....	0.4	0.5	5192
Replace any console switch.....	0.6	0.6	6624
Replace passenger switch – volume/PTT switch.....	---	0.6	6627

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
ELECTRICAL (Cont'd)			
Lights			
Replace headlight – includes diagnosis	0.1	0.1	5185
Replace headlight housing – includes adjustment	0.1	0.1	5189
Replace instrument panel bulb – includes diagnosis	0.2	0.2	5193
Replace taillight bulb or single light bulb or lens			
– includes diagnosis	0.1	0.1	5197
Replace taillight assembly or circuit board	0.2	0.2	5215
Replace turn signal light assembly			
front	0.4	0.4	5201
rear	0.4	0.4	5205
Replace rear turn signal bar	0.4	0.4	5207
Replace fender tip light bulb or lens			
front	0.1	0.1	5217
rear	0.1	0.1	5221
Replace fender tip lamp assembly			
front	0.2	0.2	5225
rear	0.3	0.3	5229
Replace passing lamp bulb	0.1	0.1	5227
Replace passing lamp assembly	0.4	0.4	5230
Replace passing lamp bracket	0.7	0.7	5232
Replace King Tour-Pak light bulb or lens			
– includes diagnosis	0.2	0.2	5233
Replace King Tour-Pak lower light assembly	0.5	0.5	5234
Replace King Tour-Pak wrap-around light assembly	0.8	0.8	5235
Turn Signals/Security System			
No security lamp	0.5	0.5	6735
No security lamp	0.5	0.5	6736
No security lamp	0.5	0.5	6737
No security lamp	0.5	0.5	6738
No security lamp	0.1	0.1	6739
No security lamp	0.2	0.2	6740
No security lamp	0.3	0.3	6741
No security lamp	0.3	0.3	6742
No security lamp	0.3	0.3	6743
No security lamp	0.2	0.2	6744
No security lamp	0.3	0.3	6745
Security lamp on continuously	0.2	0.2	6750
Security lamp on continuously	0.4	0.4	6751
Security lamp on continuously	0.5	0.5	6752
Fob signal weak	0.1	0.1	6755
Fob signal weak	0.1	0.1	6756
Fob signal weak	0.2	0.2	6757
Turn signal error 2A	0.9	0.9	6773
Turn signal error 2B	0.6	0.6	6777
Turn signal error 2B	0.5	0.5	6778
Turn signal error 2B	0.7	0.7	6779
Turn signal error 2B	0.7	0.7	6780
Turn signal error 2C	0.8	0.8	6784
Turn signal error 2C	0.8	0.8	6785
Turn signal error 2C	1.2	1.2	6786
Turn signal error 3A	0.3	0.3	6790
Turn signal error 3A	0.2	0.2	6791
Turn signal error 3A	0.1	0.1	6792
Turn signal error 3A	0.3	0.3	6793

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
ELECTRICAL (Cont'd)			
Turn Signals/Security System (Cont'd)			
Turn signal error 3B.....	0.1	0.1	6796
Turn signal error 3B.....	0.3	0.3	6797
Turn signal error 3B.....	0.3	0.3	6798
Turn signal error 3B.....	0.3	0.3	6799
Turn signal error 3B.....	0.3	0.3	6800
Turn signal error 3C	0.3	0.3	6805
Turn signal error 3C	0.3	0.3	6806
Turn signal error 3C	0.2	0.2	6807
Turn signal error 3C	0.3	0.3	6808
Turn signal error 3D	0.4	0.4	6810
Turn signal error 3D	0.8	0.8	6811
Turn signal error 3D	0.5	0.5	6812
Turn signal error 3D	0.4	0.4	6813
Turn signal error 3D	0.5	0.5	6814
Turn signal error 3D	0.8	0.8	6815
Turn signal error 3D	0.5	0.5	6816
Turn signal error 4A.....	0.2	0.2	6820
Turn signal error 4A.....	0.2	0.2	6821
Turn signal error 4A.....	0.4	0.4	6822
* Turn signal error 4A.....	0.3	0.3	6823
Turn signal error 4A.....	0.5	0.5	6824
Ignition enable output high	0.3	0.3	6827
Ignition enable output high	0.3	0.3	6828
Alarm output	0.3	0.3	6830
Alarm output	0.3	0.3	6831
Alarm output	0.3	0.3	6832
Alarm output	0.4	0.4	6833
Alarm output	0.3	0.3	6834
Alarm output	0.3	0.3	6835
Starter output high	0.3	0.3	6840
Starter output high	0.2	0.2	6841
Starter output high	0.3	0.3	6842
Accelerometer fault	0.2	0.2	6845
Battery/Horn			
Replace the battery	0.3	0.3	5705
Replace horn and/or bracket.....	0.1	0.1	5765
Replace battery tray	0.3	0.3	5767
Replace battery cable	0.2	0.2	5769
Instruments – Includes Diagnosis			
Replace speedometer – cosmetics only.....	0.2	0.2	6003
Electronic speedometer:			
Diagnose inoperative, inaccurate or erratic speedometer – switch	0.3	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer	0.1	0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer – wiring	0.2	0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer – replace	0.5	0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer – wiring	0.4	0.4	6008

*Does not include lamp assembly replacement

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
ELECTRICAL (Cont'd)			
Instruments – Includes Diagnosis			
Diagnose inoperative, inaccurate or erratic speedometer – sensor	0.5	0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer – open	0.6	0.6	6013
Diagnose inoperative, inaccurate or erratic speedometer – LED failure.....	0.3	0.3	6014
Diagnose inoperative, inaccurate or erratic speedometer – wires.....	0.4	0.4	6016
Odometer inoperable.....	0.3	0.3	6020
Diagnose inoperative, inaccurate or erratic speedometer – internal	0.5	0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground	0.5	0.5	6024
Diagnose inoperative, inaccurate, or erratic speedometer – debris or sensor.....	0.5	0.5	6029
Replace tachometer	0.3	0.3	6009
Replace voltmeter or fuel gauge	0.3	0.3	6021
Replace oil pressure or air temperature gauge.....	0.5	0.5	6026
Replace ambient temperature sensor	0.3	0.3	6028
Replace low fuel module	0.3	0.3	6030
Accessories			
Replace windshield	0.1	0.1	6203
Replace one wind deflector.....	0.1	0.1	6205
Replace instrument panel support housing or inner fairing	1.8	1.9	6209
Replace chrome fairing skirt.....	0.2	0.2	6273
Replace outer fairing or support brace.....	0.6	0.6	6255
Replace inner fairing bracket.....	0.8	0.9	6265
Replace one fairing lower and/or glove compartment.....	0.2	0.2	6272
Replace saddlebag mounting bracket.....	0.2	0.2	6253
Replace saddlebag guard – complete.....	0.3	0.3	6254
Replace a single saddlebag guard rail	0.2	0.2	6256
Replace a saddlebag	0.2	0.2	6257
Replace saddlebag cover one	0.2	0.2	6260
Replace saddlebag lock	0.2	0.2	6259
Replace one saddlebag tether strap	0.1	0.1	6262
Replace Tour-Pak lock or latch	0.2	0.2	6261
Replace one frame sidecover.....	0.1	0.1	6263
Replace Tour-Pak hinge.....	0.3	0.3	6264
Replace Nameplate Tour-Pak.....	0.2	0.2	6266
Change Lock-set	0.5	0.5	6276
Replace Tour-Pak cover.....	0.7	0.7	6270
Replace bumper front.....	0.3	0.3	6303
rear	0.2	0.2	6305
Replace highway bar front	0.6	0.6	6353
rear – left	0.3	0.3	6355
– right	0.4	0.4	6357
Replace Tour-Pak mount/luggage rack.....	0.7	0.8	6453
Replace Tour-Pak – includes lights and brackets, antenna assembly, backrest, and rear speakers.....	0.9	2.6	6509
Replace mirror.....	0.1	0.1	6513
Replace backrest.....	0.2	0.2	6515
Replace fairing cap.....	0.3	0.3	6271

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
<i>ELECTRICAL (Cont'd)</i>			
Sound System – Diagnosis, Repair			
Replace radio chassis – includes SWR check	0.4	0.4	6601
Replace one front speaker.....	0.3	0.3	6605
Replace one rear speaker	--	0.2	6606
Replace rear speaker housing			
right side	--	0.3	6608
left side.....	--	0.3	6610
Replace one speaker grill			
front.....	0.2	0.2	6607
rear.....	--	0.1	6612
Replace stereo antenna mast.....	0.3	0.3	6617
Complete CB antenna inspection – includes checking S.W.R.	--	0.2	6602
Replace front antenna lead.....	1.8	1.8	6609
Replace antenna mast mount	0.2	0.2	6611
Replace CB antenna mast – includes checking S.W.R.	--	0.3	6613
Replace CB loading coil – includes checking S.W.R.	--	0.3	6618
Replace console switch housing	--	0.3	6623
Replace front headset DIN cover	--	0.3	6619
Replace rear headset DIN cover.....	--	0.1	6628
Accessories – Cruise Control			
– Diagnosis, Repair			
<i>NOTE: The charts referenced below are located in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
No set switch as per Chart A	--	0.3	6637
No resume switch as per Chart B.....	--	0.3	6639
No cruise lamp as per Chart C	--	0.3	6641
No cruise power as per Chart D	--	0.3	6643
No power from cruise enable as per Chart E.....	--	0.5	6645
Constant brake light input as per Chart F-1	--	0.2	6647
No front or rear brake light input – Chart F-2	--	0.3	6649
Diagnose throttle switch in put as per Chart G	--	0.2	6651
No speedometer input as per Chart H	--	0.8	6653
No tachometer input as per Chart I	--	0.4	6655
Replace cruise cable.....	--	0.4	6630
Replace cruise module	--	0.7	6635

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
SIDECAR			
2001 Ultras with Accessory Sidecar			
Replace sidecar windshield.....	0.2	0.2	6901
Replace sidecar fender	0.8	0.8	6904
Replace seat	0.2	0.2	6907
Replace seat cable.....	0.5	0.5	6910
Replace liner (carpeting)	0.4	0.4	6913
Replace armrest storage pouch	0.2	0.2	6916
Replace armrest.....	0.2	0.2	6919
Replace handles	0.1	0.1	6922
Replace brake pads	0.2	0.2	6926
Replace brake caliper.....	0.3	0.3	6927
Replace brake disc.....	0.3	0.3	6929
Replace wheel.....	0.7	0.7	6931
Replace axle	0.8	0.8	6934
Repair/replace audio harness	1.0	1.0	6940
Replace speaker	0.5	0.5	6943
Replace speaker pod	0.6	0.6	6946
Replace amplifier.....	0.6	0.6	6949
Removal of sidecar for service and reattachment – includes realignment	1.1	1.1	6954
Sidecar alignment.....	0.8	0.8	6956
Sidecar tub removal	0.3	0.3	6958

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
FUEL INJECTION SYSTEM			
NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.			
Diagnostic check	0.1	0.1	7105
Diagnostic check	0.3	0.3	7110
Diagnostic check	0.4	0.4	7115
Diagnostic check	0.5	0.5	7120
Diagnostic check	0.3	0.3	7125
No check engine lamp	0.3	0.3	7130
No check engine lamp	0.3	0.3	7135
No check engine lamp	0.3	0.3	7143
No check engine lamp	0.5	0.6	7145
Check engine lamp on continuously	0.3	0.3	7148
Check engine lamp on continuously	0.1	0.1	7150
Check engine lamp on continuously	0.5	0.6	7160
Check engine lamp on continuously	0.4	0.4	7165
Engine cranks but will not start	0.2	0.2	7180
Engine cranks but will not start	0.3	0.3	7185
Engine cranks but will not start	0.3	0.3	7190
Engine cranks but will not start	0.4	0.4	7195
Engine cranks but will not start	0.7	0.7	7205
Engine cranks but will not start	0.9	0.9	7210
Engine cranks but will not start	0.8	0.8	7215
Engine cranks but will not start	1.0	1.0	7225
Engine cranks but will not start	1.0	1.0	7226
Engine cranks but will not start	1.1	1.1	7227
Engine cranks but will not start	1.1	1.1	7228
Engine cranks but will not start	1.2	1.2	7230
Engine cranks but will not start	0.8	0.8	7231
Engine cranks but will not start	0.9	0.9	7235
Engine cranks but will not start	1.2	1.2	7240
Engine cranks but will not start	1.4	1.4	7242
Engine cranks but will not start	1.0	1.0	7245
* Engine cranks but will not start	1.1	1.1	7250
Engine cranks but will not start	3.4	3.4	7255
Engine cranks but will not start	1.3	1.3	7260
Engine cranks but will not start	1.2	1.2	7265

*Includes timer cover/gearcase cover disassembly

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
FUEL INJECTION SYSTEM (Cont'd)			
<i>NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
No ECM power.....	0.3	0.3	7270
No ECM power.....	0.4	0.4	7275
No ECM power.....	0.4	0.4	7280
No ECM power.....	0.6	0.6	7285
No ECM power.....	0.6	0.6	7290
No ECM power.....	0.7	0.7	7295
No ECM power.....	0.2	0.2	7305
No ECM power.....	0.4	0.4	7310
No ECM power.....	0.4	0.4	7315
No ECM power.....	0.5	0.5	7320
No ECM power.....	0.3	0.3	7325
No ECM power.....	0.5	0.5	7330
No ECM power.....	0.5	0.5	7331
Fuel system electrical test.....	0.4	0.4	7335
Fuel system electrical test.....	0.6	0.6	7336
Fuel system electrical test.....	0.6	0.6	7340
Fuel system electrical test.....	0.4	0.4	7345
Fuel system electrical test.....	0.7	0.7	7350
Fuel system electrical test.....	0.4	0.4	7355
Fuel system electrical test.....	1.0	1.0	7360
Fuel system electrical test.....	0.4	0.4	7365
Fuel system electrical test.....	0.7	0.7	7370
Fuel system electrical test.....	0.4	0.4	7375
Fuel system electrical test.....	0.4	0.4	7380
Fuel system electrical test.....	0.2	0.2	7385
Fuel system electrical test.....	1.0	1.0	7390
Fuel system electrical test.....	1.0	1.0	7395
Fuel system electrical test.....	1.8	1.8	7405
Fuel system electrical test.....	1.2	1.2	7410
Fuel system electrical test.....	1.2	1.2	7415
Fuel system electrical test.....	0.3	0.3	7420
Fuel system electrical test.....	0.4	0.4	7425
Fuel system electrical test.....	0.3	0.3	7430
Fuel system electrical test.....	0.4	0.4	7435
Fuel system electrical test.....	0.4	0.4	7440
Fuel system electrical test.....	0.3	0.3	7445
Fuel system electrical test.....	0.3	0.3	7450

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
FUEL INJECTION SYSTEM (Cont'd)			
<i>NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Fuel pressure test.....	0.2	0.2	7455
Fuel pressure test.....	1.2	1.2	7460
Fuel pressure test.....	0.6	0.6	7465
Fuel pressure test.....	0.6	0.6	7470
Fuel pressure test.....	0.6	0.6	7475
Fuel pressure test.....	1.6	1.6	7480
Idle speed control	0.2	0.2	7485
Idle speed control	0.3	0.3	7490
Idle speed control	0.5	0.5	7495
Idle speed control	0.5	0.5	7505
Idle speed control	0.5	0.5	7510
Idle speed control	0.6	0.6	7515
Idle speed control	0.4	0.4	7516
Misfire at idle or under load.....	0.1	0.1	7520
Misfire at idle or under load.....	0.2	0.2	7525
Misfire at idle or under load.....	0.3	0.3	7530
Misfire at idle or under load.....	1.0	1.0	7535
Misfire at idle or under load.....	0.6	0.6	7540
Misfire at idle or under load.....	0.7	0.7	7545
Misfire at idle or under load.....	0.9	0.9	7550
Throttle position sensor.....	0.2	0.2	7555
Throttle position sensor.....	0.5	0.5	7560
Throttle position sensor.....	3.4	3.4	7565
Throttle position sensor.....	1.8	1.8	7570
Throttle position sensor.....	0.4	0.4	7575
Throttle position sensor.....	0.4	0.4	7580
Throttle position sensor.....	0.4	0.4	7585
Throttle position sensor.....	1.8	1.8	7590
Throttle position sensor.....	1.8	1.8	7595
Throttle position sensor.....	0.4	0.4	7605
Throttle position sensor.....	0.4	0.4	7610
Throttle position sensor.....	0.4	0.4	7615
Barometric pressure sensor.....	0.5	0.5	7620
Barometric pressure sensor.....	1.3	1.3	7625
Barometric pressure sensor.....	0.8	0.8	7630
Barometric pressure sensor.....	0.4	0.4	7635
Barometric pressure sensor.....	0.5	0.5	7640
Barometric pressure sensor.....	0.5	0.5	7645
Barometric pressure sensor.....	0.4	0.4	7650
Barometric pressure sensor.....	0.5	0.4	7655
Barometric pressure sensor.....	1.0	1.0	7946

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
FUEL INJECTION SYSTEM (Cont'd)			
NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.			
Engine temperature sensor	0.4	0.4	7660
Engine temperature sensor	1.4	1.4	7665
Engine temperature sensor	0.8	0.8	7670
Engine temperature sensor	0.5	0.5	7675
Engine temperature sensor	0.5	0.5	7680
Engine temperature sensor	0.5	0.5	7685
Engine temperature sensor	0.5	0.5	7690
Engine temperature sensor	0.4	0.4	7695
Engine temperature sensor	0.7	0.7	7705
Engine temperature sensor	0.5	0.5	7710
Intake air temperature sensor	0.6	0.6	7715
Intake air temperature sensor	3.9	3.8	7720
Intake air temperature sensor	2.1	2.1	7725
Intake air temperature sensor	0.6	0.6	7730
Intake air temperature sensor	0.4	0.4	7735
Intake air temperature sensor	0.4	0.4	7740
Intake air temperature sensor	0.6	0.6	7745
Intake air temperature sensor	0.5	0.5	7750
Intake air temperature sensor	0.6	0.6	7755
Intake air temperature sensor	2.1	2.1	7760
Battery voltage test**	0.7	0.7	7765
Battery voltage test**	0.8	0.8	7770
Battery voltage test**	0.8	0.8	7775
Battery voltage test**	1.1	1.1	7780
Fuel injectors	0.2	0.2	7785
Fuel injectors	0.3	0.3	7790
Fuel injectors	1.3	1.3	7795
Fuel injectors	0.5	0.5	7805
Fuel injectors	0.7	0.7	7810
Fuel injectors	0.4	0.4	7815
Fuel injectors	0.5	0.5	7820
Fuel injectors	0.5	0.5	7825
Fuel injectors	0.5	0.5	7830
Fuel injectors	0.5	0.5	7835
Fuel injectors	0.6	0.6	7840
Fuel injectors	0.4	0.4	7845
Fuel injectors	0.4	0.4	7850

**Includes charging diagnostics

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
FUEL INJECTION SYSTEM (Cont'd)			
NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.			
Ignition coil test.....	..... 0.3 .....	..... 0.3	7855
Ignition coil test.....	..... 0.8 .....	..... 0.8	7856
Ignition coil test.....	..... 0.4 .....	..... 0.4	7860
Ignition coil test.....	..... 0.5 .....	..... 0.5	7865
Ignition coil test.....	..... 0.3 .....	..... 0.3	7870
Ignition coil test.....	..... 0.4 .....	..... 0.4	7875
Ignition coil test.....	..... 0.2 .....	..... 0.2	7880
Fuel pump relay.....	..... 0.4 .....	..... 0.4	7885
Fuel pump relay.....	..... 0.7 .....	..... 0.7	7890
Fuel pump relay.....	..... 0.5 .....	..... 0.5	7895
Fuel pump relay.....	..... 0.2 .....	..... 0.2	7905
Fuel pump relay.....	..... 0.4 .....	..... 0.4	7910
Crank position sensor .....	..... 0.4 .....	..... 0.4	7980
Crank position sensor .....	..... 1.0 .....	..... 1.0	7981
Crank position sensor .....	..... 0.5 .....	..... 0.5	7982
Crank position sensor .....	..... 1.2 .....	..... 1.2	7983
Crank position sensor .....	..... 1.1 .....	..... 1.1	7984
Crank position sensor .....	..... 1.2 .....	..... 1.2	7985
Crank position sensor .....	..... 0.6 .....	..... 0.6	7986
Crank position sensor .....	..... 0.6 .....	..... 0.6	7987
Crank position sensor .....	..... 0.3 .....	..... 0.3	7988
Tachometer .....	..... 0.5 .....	..... 0.5	7881
Tachometer .....	..... 0.5 .....	..... 0.5	7882
Tachometer .....	..... 0.5 .....	..... 0.5	7883
Tachometer .....	..... 0.5 .....	..... 0.5	7884
Tachometer .....	..... 0.6 .....	..... 0.6	7886

FLHTC-I, FLHTCU-I, MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FFW	FCW/FLW	
FUEL INJECTION SYSTEM (Cont'd)			
<i>NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Cam position sensor	1.9	1.9	7941
Cam position sensor	0.4	0.4	7942
Cam position sensor	0.4	0.4	7943
Cam position sensor	0.4	0.4	7944
Cam position sensor	1.0	1.0	7946
Cam position sensor	0.3	0.3	7947
Cam position sensor	0.4	0.4	7948
Cam position sensor	1.2	1.2	7969
Bank angle sensor	0.2	0.2	7971
Bank angle sensor	0.3	0.3	7972
Bank angle sensor	0.4	0.4	7973
Bank angle sensor	0.3	0.3	7974
Bank angle sensor	0.4	0.4	7975
Bank angle sensor	0.2	0.2	7976
ECM failure	0.2	0.2	7913

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
<p>SERVICE</p> <p>New</p> <p>Set-up and pre-delivery (includes setting SWR) 6.9 ---</p> <p>1,000 mile service 3.0 ---</p> <p>Regular</p> <p>2,500 mile maintenance 0.5 ---</p> <p>5,000 mile maintenance 2.5 ---</p> <p>7,500 mile maintenance 0.5 ---</p> <p>10,000 mile maintenance 4.5 ---</p>		
<p>CHASSIS</p> <p>Drive</p> <p>Adjust secondary belt 0.3 ---</p> <p>Replace secondary belt 2.8 2011</p> <p>Replace rear wheel sprocket 0.8 2021</p> <p>Wheels</p> <p>Replace tire and/or wheel assembly - includes balancing</p> <p>front 0.6 2106</p> <p>rear 0.7 2111</p> <p>Replace wheel assembly - includes disc and sprocket exchange and balancing</p> <p>front 0.8 2113</p> <p>rear 0.9 2114</p> <p>Replace rim, hub or spokes</p> <p>front 2.2 2116</p> <p>rear 2.3 2121</p> <p>Replace wheel bearings</p> <p>front 0.6 2136</p> <p>rear 0.7 2141</p> <p>True spoked wheel 0.4 2156</p>		

*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
CHASSIS (Cont'd)		
Handlebars		
Replace handlebars – includes removing radio	1.2	2206
Replace clutch hand lever	0.2	2221
Replace clutch hand lever bracket	0.2	2226
Replace throttle control	0.6	2231
Replace throttle control cable – one or more – includes all adjustments	1.1	2241
Replace both rubber handlebar mounts – includes removing radio	1.0	2246
Replace rubber handlebar grip	0.2	2251
Replace handlebar riser		
one or both – includes loosening radio	1.0	2253
Replace handlebar clamp		
one or both – includes removing radio	0.8	2254
Frame/Swing Arm/Front Fork		
Replace frame – includes removal and installation of all accessories and motorcycle components	17.5	2306
Replace front fork assembly	3.0	2311
Replace lower fork bracket and stem	3.2	2316
Replace steering head cups and bearings, including bearing adjustment	3.2	2321
Replace upper fork bracket	2.7	2326
Adjust steering head bearings	0.7	---
Change front fork oil	0.7	---
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly, and installation		
one side	2.4	2341
both sides	2.8	2342
Replace fork side		
one side	1.2	2346
both sides	1.5	2351
Replace fork tube		
one side	1.9	2356
both sides	2.2	2361
Replace front fork air line	0.7	2363
Replace rear shock air line	0.1	2369
Replace rear swing arm and/or bushings	2.2	2366
Replace rear fork pivot shaft	1.0	2368
Replace rear shock absorber assembly		
one side	0.3	2371
both sides	0.6	2376

*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
CHASSIS (Cont'd)		
Frame/Swing Arm/Front Fork (Cont'd)		
Replace rear shock absorber component(s)		
one side.....	..... 0.5	2381
both sides.....	..... 0.8	2386
Replace jiffy stand		
complete.....	..... 0.3	2391
spring and/or stand.....	..... 0.2	2396
rubber bumper.....	..... 0.1	2399
Replace motor rubber mount		
rear left.....	..... 0.3	2397
rear right.....	..... 0.5	2395
front.....	..... 0.4	2398
Replace footboard.....	..... 0.2	2394
Brakes		
Replace hydraulic brake line – includes filling/bleeding brakes		
front.....	..... 1.0	2406
rear.....	..... 0.4	2411
Replace rear master cylinder reservoir hose and/or hose..	..... 0.2	2414
Replace brake pads		
front – each caliper.....	..... 0.1	2416
rear.....	..... 0.2	2421
Replace brake caliper – includes filling/bleeding brakes		
front – each caliper.....	..... 0.4	2426
rear.....	..... 1.0	2431
Replace brake disc		
front – one side.....	..... 0.3	2436
– both sides.....	..... 0.4	2437
rear.....	..... 1.3	2441
Bleed brake caliper – one or two front calipers or rear caliper.....	..... 0.2	2446
Overhaul brake caliper – includes filling/bleeding brakes		
front – each caliper.....	..... 0.6	2451
rear.....	..... 1.3	2456
Replace master cylinder assembly – includes filling/bleeding brakes		
front.....	..... 0.4	2461
rear.....	..... 0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes		
front.....	..... 0.6	2471
rear.....	..... 0.7	2476
Replace rear brake pedal.....	..... 0.3	2492
Replace front brake lever.....	..... 0.1	2494

*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
CHASSIS (Cont'd)		
Seats/Fenders/Tanks		
Replace seat front .....	..... 0.1	2506
Replace fender		
front .....	..... 1.0	2526
rear .....	..... 1.5	2531
Replace rear fender chrome support cover – one only .....	..... 1.2	2536
Replace fuel tank assembly .....	..... 0.8	2541
Replace fuel tank gauge and/or console .....	..... 0.5	2563
Replace fuel tank gauge sending unit .....	..... 0.6	2564
Replace fuel tank check valve assembly in/out/O-ring .....	..... 0.8	2567
Replace canopy gasket .....	..... 0.5	2570
Replace fuel pump .....	..... 0.6	2573
Replace fuel filter .....	..... 0.6	2575
Replace any hose .....	..... 0.3	2576
Replace fuel hose or any hose inside tank .....	..... 0.6	2579
Replace oil filter .....	..... 0.1	2582
Replace oil filter bracket .....	..... 0.6	2584
Belt Guards		
Replace debris deflector .....	..... 0.2	2616
Replace belt guard .....	..... 0.2	2620
Exhaust System		
Replace complete exhaust system and/or gaskets .....	..... 0.6	2626
Replace exhaust pipe		
front .....	..... 0.3	2631
rear .....	..... 0.3	2636
Replace any muffler .....	..... 0.2	2646
Replace any exhaust shield .....	..... 0.1	2661
Replace muffler support .....	..... 0.2	2666
ENGINE		
General		
Remove and install engine – includes removal of side car		
and reattachment of side car .....	..... 5.9	3006
Replace and adjust stabilizer – top .....	..... 0.8	3005
Replace and adjust stabilizer – front .....	..... 0.3	3007
Remove and replace oil pan for inspection/contamination		
with engine removed .....	..... 0.3	3009

*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE																																																																																													
JOB DESCRIPTION	FGW																																																																																														
<p>ENGINE (Cont'd)</p> <p>Cylinder Head Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.</p> <table border="0"> <tr> <td>front head</td> <td>4.9</td> <td>3101</td> </tr> <tr> <td>rear head</td> <td>4.9</td> <td>3103</td> </tr> <tr> <td>both heads</td> <td>5.5</td> <td>3104</td> </tr> <tr> <td>Replace cylinder head</td> <td></td> <td></td> </tr> <tr> <td> one head</td> <td>3.6</td> <td>3106</td> </tr> <tr> <td> both heads</td> <td>4.2</td> <td>3108</td> </tr> <tr> <td>Replace valve seal or spring after cylinder head removal</td> <td></td> <td></td> </tr> <tr> <td> one seal or spring (intake or exhaust)</td> <td>0.1</td> <td>3131</td> </tr> <tr> <td> both seals or springs (intake or exhaust)</td> <td>0.2</td> <td>3132</td> </tr> <tr> <td>Replace cylinder head gasket/o-ring</td> <td></td> <td></td> </tr> <tr> <td> front cylinder</td> <td>3.0</td> <td>3140</td> </tr> <tr> <td> rear cylinder</td> <td>3.0</td> <td>3142</td> </tr> <tr> <td> both cylinders</td> <td>3.4</td> <td>3143</td> </tr> <tr> <td>Replace rocker arm covers and/or gaskets</td> <td></td> <td></td> </tr> <tr> <td> front cylinder</td> <td>0.8</td> <td>3144</td> </tr> <tr> <td> rear cylinder</td> <td>0.8</td> <td>3145</td> </tr> <tr> <td> both cylinders</td> <td>0.9</td> <td>3148</td> </tr> <tr> <td>Recondition rocker arms after heads are removed</td> <td></td> <td></td> </tr> <tr> <td> one head</td> <td>0.7</td> <td>3149</td> </tr> <tr> <td> both heads</td> <td>1.4</td> <td>3150</td> </tr> <tr> <td>Replace lower rocker arm cover/gasket, or rocker arms and /or shafts</td> <td></td> <td></td> </tr> <tr> <td> front cylinder</td> <td>1.6</td> <td>3147</td> </tr> <tr> <td> rear cylinder</td> <td>1.6</td> <td>3152</td> </tr> <tr> <td> both cylinders</td> <td>1.8</td> <td>3153</td> </tr> <tr> <td>Replace cylinder o-ring/drain o-ring</td> <td></td> <td></td> </tr> <tr> <td> front cylinder</td> <td>3.2</td> <td>3161</td> </tr> <tr> <td> rear cylinder</td> <td>3.2</td> <td>3163</td> </tr> <tr> <td> both cylinders</td> <td>3.6</td> <td>3168</td> </tr> <tr> <td>Replace crankcase umbrella valve</td> <td></td> <td></td> </tr> <tr> <td> one</td> <td>1.1</td> <td>3172</td> </tr> <tr> <td> both</td> <td>1.2</td> <td>3174</td> </tr> </table>			front head	4.9	3101	rear head	4.9	3103	both heads	5.5	3104	Replace cylinder head			one head	3.6	3106	both heads	4.2	3108	Replace valve seal or spring after cylinder head removal			one seal or spring (intake or exhaust)	0.1	3131	both seals or springs (intake or exhaust)	0.2	3132	Replace cylinder head gasket/o-ring			front cylinder	3.0	3140	rear cylinder	3.0	3142	both cylinders	3.4	3143	Replace rocker arm covers and/or gaskets			front cylinder	0.8	3144	rear cylinder	0.8	3145	both cylinders	0.9	3148	Recondition rocker arms after heads are removed			one head	0.7	3149	both heads	1.4	3150	Replace lower rocker arm cover/gasket, or rocker arms and /or shafts			front cylinder	1.6	3147	rear cylinder	1.6	3152	both cylinders	1.8	3153	Replace cylinder o-ring/drain o-ring			front cylinder	3.2	3161	rear cylinder	3.2	3163	both cylinders	3.6	3168	Replace crankcase umbrella valve			one	1.1	3172	both	1.2	3174
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*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
ENGINE (Cont'd)		
Cylinder and Piston (Cont'd)		
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.		
one piston and cylinder	6.3	3211
both pistons and cylinders.....	6.9	3212
Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.		
one piston and cylinder	5.7	3207
both pistons and cylinders.....	6.3	3208
Replace piston rings – includes deglazing cylinder		
one cylinder.....	3.5	3206
both cylinders.....	4.1	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly		
one cylinder.....	4.1	3221
both cylinders.....	5.3	3231
Replace cylinder and piston		
one cylinder.....	3.4	3236
both cylinders.....	3.9	3246
Replace upper connecting rod bushing during upper end repair.....	0.4	3251
Replace one cylinder stud – cylinder removed.....	0.1	3253
Replace all eight cylinder studs – cylinders removed.....	0.5	3254
Cam Cover		
Replace lifter cover/gasket or lifter/and, or anti-rotation pin		
one	1.8	3307
both	2.0	3310
Replace push rod, push rod cover and/or O-ring or quad seal		
one or two same cylinder	1.8	3317
one each cylinder	2.0	3318
Replace cam cover and/or gasket.....	2.0	3325
Replace primary cam chain, sprockets and/or fastener	2.1	3327
Replace primary cam chain tensioner.....	2.1	3328
Replace cam support plate	3.2	3337
Replace cam support plate/O-rings.....	3.2	3335
Replace cam support bearing/cams/secondary cam chain/tensioner.....	3.4	3338
Replace oil pump and/or O-rings.....	3.0	3341
Replace cam bearing crankcase		
one bearing	3.2	3342
two bearings.....	3.3	3343
By pass valve inspection.....	3.1	3354

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JOB DESCRIPTION	FGW	
ENGINE (Cont'd)		
Crankcase		
Replace crankcases – includes remove and install engine 8.1	3406
Seal crankcase only .....	..... 7.5	3407
Replace flywheels – includes remove and install engine ..	..... 7.6	3411
Replace right side main bearing .....	..... 7.0	3412
Piston jet/O-ring		
one .....	..... 3.0	3413
both .....	..... 3.4	3414
Filter housing and or O-rings .....	..... 0.2	3415
Check flywheel trueness before assembly or after removal.	..... 0.1	3420
True flywheels after removal – includes piston removal and		
reinstallation .....	..... 0.5	3421
Recondition cylinder heads – head removed		
(for non-related repairs)		
one head .....	..... 1.0	3425
both heads .....	..... 2.0	3426
Replace piston rings – cylinders removed		
(for non-related repairs – deglaze only) .....	..... 0.3	3428
Fuel System		
Replace air cleaner backing plate .....	..... 0.2	3501
Replace air cleaner cover .....	..... 0.1	3502
Replace induction module – includes making cruise		
control cable adjustment .....	..... 1.0	3508
Replace induction module seal .....	..... 1.0	3510
Replace external fuel supply/return hose – one or both ....	..... 0.6	3514
Evaporative Emissions System		
Replace canister 0.1	3527
Replace vapor valve 0.1	3528
Replace any one hose 0.1	3529

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JOB DESCRIPTION	FGW	
<i>DRIVE/CLUTCH</i>		
Drive		
Adjust primary chain.....	0.2	---
Replace primary chain.....	0.9	4002
Replace engine sprocket.....	0.9	4003
Replace engine sprocket seal	1.3	4005
Replace primary cover	0.4	4007
Replace primary cover gasket.....	0.4	4009
Replace primary inspection cover and/or O-ring	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.1	4008
Replace shift lever sleeve and/or O-ring	0.4	4010
Clutch		
Adjust clutch	0.2	---
Replace release cable assembly.....	1.8	4006
Service the clutch – includes disassembly, cleaning, inspection repair, assembly ,and adjustment	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	4016
Replace clutch release mechanism (ball ramp) and/or side cover.....	1.6	4018
<i>TRANSMISSION</i>		
Transmission Case		
Replace transmission case	5.3	4304
Replace transmission complete	4.9	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case in frame)	4.6	4306
Replace transmission sprocket	2.2	4309
Replace main drive gear oil seal (in transmission case)	2.3	4311
Replace mainshaft oil seal (in main drive gear)	2.2	4316
Replace transmission shift shaft seal.....	2.2	4390
Replace side door gasket.....	2.8	4321
Replace shifter drum – includes removal, adjusting cam spacing and end play, and installation	1.4	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement.....	2.9	4336
Replace transmission top cover and/or gasket	1.2	4341
Replace shifter forks and/or shaft – includes checking gear engagement	1.8	4343
Replace side door bearing		
one	3.0	4348
both	3.1	4351
Replace transmission case countershaft bearing.....	2.9	4361
Replace main drive gear and/or bearing	3.2	4366
Replace transmission side cover gasket.....	0.9	4368
Replace oil pan and/or gasket or baffle		
NOTE: removal of rear wheel may be necessary.....	0.9	4378
Replace oil fill tube and/or cover, and/or gasket	0.3	4379

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JOB DESCRIPTION	FGW	
ELECTRICAL		
General		
Check and diagnose the electrical system:		
Lights and accessories – excluding turn signals	0.3	5016
Replace connector bearing	0.1	5022
Replace connector anchor	0.1	5023
Charging circuit:		
diagnose charging system – regulator inspection	0.1	5306
diagnose charging system – failed regulator bleed test...	0.9	5307
diagnose charging system – milliamp draw	0.2	5308
diagnose charging system – total current draw	0.2	5310
replace regulator/stator connector	0.2	5311
diagnose charging system – open or grounded stator...	1.8	5312
diagnose system – AC output	1.8	5314
diagnose charging system – regulator failure	1.0	5315
diagnose charging system – voltage output	1.0	5316
diagnose charging system – replace rotor	1.3	5319
Starter circuit:		
Starter inoperative – open/shorted/ground motor	1.4	5817
Starter inoperative – start button	1.0	5818
Starter inoperative – solenoid clicks; poor starter or battery connections	0.2	5822
Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts	0.3	5823
Starter inoperative – solenoid clicks; poor starter to battery connections, ground connections, or bad solenoid contacts	0.2	5824
Starter inoperative – damaged motor	1.4	5825
Starter inoperative – relay click; open in relay wiring	0.3	5827
Starter inoperative – nothing clicks; poor relay ground..	0.3	5828
Starter inoperative – nothing clicks; short to voltage	0.4	5830
Starter inoperative – nothing clicks; open in wiring to or from starter button	0.5	5831
Starter inoperative – starter relay	0.4	5832
Slow starter crank or starter stalls; poor starter to battery connections, ground connections	0.2	5835
Slow starter crank or starter stalls binding	0.3	5836

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JOB DESCRIPTION	FGW	
ELECTRICAL (Cont'd)		
General - cont'd		
Starter circuit -cont'd:		
Starter spins – clutch	1.5	5837
Starter inoperative – nothing clicks; TSM / TSSM	0.4	5838
Replace starter solenoid – contacts includes		
starter motor removal.....	1.6	5845
Starter binding.....	1.6	5850
Replace starter solenoid – coil includes starter		
motor removal.....	1.6	5860
Wiring		
Replace main wiring harness.....	3.6	5026
Replace Ultra overlay.....	1.8	5027
Main harness – locate and repair, open/short.....	0.5	5028
Replace EFI harness	1.7	5033
Replace rear fender wiring harness.....	0.8	5036
Replace any single wire		
ground wire	0.4	5038
light circuit.....	0.2	5039
accessory circuit	0.2	5043
Repair/diagnose indicator lamp wiring.....	0.3	5048
Replace front fender wiring harness.....	0.9	5049
Replace inter connect harness.....	0.5	5052
Interconnect harness – repair short.....	0.5	6531
Interconnect harness – repair open.....	0.5	6532
Handlebar harness – repair short.....	0.4	6551
Handlebar harness – repair open.....	0.4	6552
Overlay harness – repair short.....	0.5	6560
Overlay harness – repair open.....	0.5	6561
Replace front headset harness.....	0.6	6616
Switches		
Replace ignition switch.....	0.5	5129
Replace fuse.....	0.4	5145
Replace rear stoplight relay.....	0.1	5169
Replace left upper handlebar switch.....	0.5	5171
Replace right upper handlebar switch.....	0.7	5173
Replace front brake light switch.....	0.7	5176
Replace left upper handlebar switch housing.....	0.2	5177
Replace left lower handlebar switch housing.....	0.3	5178
Replace right upper handlebar switch housing.....	0.2	5179
Replace right lower handlebar switch housing.....	0.7	5180
Replace handlebar (cruise set) switch.....	1.2	5182
Replace handlebar mode switch.....	1.1	5183
Replace handlebar (PTT) switch.....	0.8	5184
Replace handlebar audio switch.....	1.0	5186
Replace rear stoplight switch.....	0.5	5141
Replace main circuit breaker.....	0.2	5147
Replace fuse block - one.....	0.3	5148
Replace fuse block - two.....	0.5	5151
Replace transmission neutral switch – includes diagnosis.....	0.3	5157
Replace oil pressure switch.....	0.3	5161
Replace rear stoplight relay.....	0.2	5169
Replace any fairing switch.....	0.5	5192
Replace any console switch.....	0.6	6624
Replace passenger switch – volume/PTT/mode.....	0.6	6627

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JOB DESCRIPTION	FGW	
<i>ELECTRICAL (Cont'd)</i>		
Lights		
Replace headlight – includes diagnosis	0.1	5185
Replace headlight housing – includes adjustment	0.1	5189
Replace instrument panel bulb or lens		
– includes diagnosis	0.2	5193
Replace taillight bulb or single light bulb or lens		
– includes diagnosis	0.1	5197
Replace taillight assembly or circuit board	0.2	5215
Replace turn signal light assembly		
front	0.4	5201
rear	0.4	5205
Replace rear turn signal bar	0.4	5207
Replace fender tip light bulb or lens		
front	0.1	5217
rear	0.1	5221
Replace fender tip lamp assembly		
front	0.2	5225
rear	0.3	5229
Replace passing lamp bulb – includes diagnosis	0.1	5227
Replace King Tour-Pak light bulb or lens		
– includes diagnosis	0.2	5233
Replace King Tour-Pak lower light assembly	0.5	5234
Replace King Tour-Pak wrap-around light assembly	0.8	5235
Replace passing lamp assembly	0.4	5230
Replace passing lamp bracket	0.7	5232
Turn Signals / Security System		
No security lamp	0.5	6735
No security lamp	0.5	6736
No security lamp	0.5	6737
No security lamp	0.5	6738
No security lamp	0.1	6739
No security lamp	0.2	6740
No security lamp	0.3	6741
No security lamp	0.3	6742
No security lamp	0.3	6743
No security lamp	0.2	6744
No security lamp	0.3	6745
Security lamp on continuously	0.2	6750
Security lamp on continuously	0.4	6751
Security lamp on continuously	0.5	6752
Fob signal weak	0.1	6755
Fob signal weak	0.1	6756
Fob signal weak	0.2	6757
Turn signal error 2A	0.9	6773
Turn signal error 2B	0.6	6777
Turn signal error 2B	0.5	6778
Turn signal error 2B	0.7	6779
Turn signal error 2B	0.7	6780

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2001

Orig. 6/00

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
<i>ELECTRICAL (Cont'd)</i>		
Turn Signals / Security System - cont'd		
Turn signal error 2C	0.8	6784
Turn signal error 2C	0.8	6785
Turn signal error 2C	1.2	6786
Turn signal error 3A.....	0.3	6790
Turn signal error 3A.....	0.2	6791
Turn signal error 3A.....	0.1	6792
Turn signal error 3A.....	0.3	6793
Turn signal error 3B.....	0.1	6796
Turn signal error 3B.....	0.3	6797
Turn signal error 3B.....	0.3	6798
Turn signal error 3B.....	0.3	6799
Turn signal error 3B.....	0.3	6800
Turn signal error 3C	0.3	6805
Turn signal error 3C	0.3	6806
Turn signal error 3C	0.2	6807
Turn signal error 3C	0.3	6808
Turn signal error 3D	0.4	6810
Turn signal error 3D	0.8	6811
Turn signal error 3D	0.5	6812
Turn signal error 3D	0.4	6813
Turn signal error 3D	0.5	6814
Turn signal error 3D	0.8	6815
Turn signal error 3D	0.5	6816
Turn signal error 4A.....	0.2	6820
Turn signal error 4A.....	0.2	6821
Turn signal error 4A.....	0.4	6822
Turn signal error 4A.....	0.3	6823
Turn signal error 4A.....	0.5	6824
Ignition enable output high	0.3	6827
Ignition enable output high	0.3	6828
Alarm output	0.3	6830
Alarm output.....	0.3	6831
Alarm output.....	0.3	6832
Alarm output.....	0.4	6833
Alarm output.....	0.3	6834
Alarm output.....	0.3	6835
Starter output high	0.3	6840
Starter output high.....	0.2	6841
Starter output high.....	0.3	6842
Accelerometer	0.2	6845
Battery/Horn		
Replace the battery	0.2	5705
Replace horn and/or bracket.....	0.1	5765
Replace battery tray	0.3	5767
Replace battery cable	0.2	5769

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JOB DESCRIPTION	FGW	
<i>ELECTRICAL (Cont'd)</i>		
Instruments – Includes Diagnosis		
Replace speedometer – cosmetics only..... 0.2	6003
Electronic speedometer:		
Diagnose inoperative, inaccurate or erratic speedometer – switch .....	..... 0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer .....	..... 0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer – wiring .....	..... 0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer – replace .....	..... 0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer – wiring .....	..... 0.4	6008
Diagnose inoperative, inaccurate or erratic speedometer – sensor .....	..... 0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer – open .....	..... 0.6	6013
Diagnose inoperative, inaccurate or erratic speedometer – LED failure.....	..... 0.3	6014
Diagnose inoperative, inaccurate or erratic speedometer – wires.....	..... 0.4	6016
Odometer inoperable.....	..... 0.3	6020
Diagnose inoperative, inaccurate or erratic speedometer – internal .....	..... 0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground .....	..... 0.5	6024
Diagnose inoperative, inaccurate, or erratic speedometer – debris or sensor.....	..... 0.5	6029
Replace tachometer .....	..... 0.3	6009
Replace instrument panel or lens.....	..... 0.8	6017
Replace instrument housing assembly (tach/speedo).....	..... 0.8	6019
Replace voltmeter or fuel gauge .....	..... 0.3	6021
Replace oil pressure or air temperature gauge.....	..... 0.5	6026
Replace ambient temperature sensor .....	..... 0.3	6028
Accessories		
Replace windshield .....	..... 0.1	6203
Replace one wind deflector .....	..... 0.1	6205
Replace inner fairing.....	..... 1.9	6209
Replace outer fairing or support brace .....	..... 0.6	6255
Replace front fairing bracket .....	..... 0.9	6265
Replace fairing cap.....	..... 0.3	6271
Replace chrome fairing skirt.....	..... 0.4	6273
Replace one fairing lower and/or glove compartment.....	..... 0.2	6272
Replace saddlebag guard – complete..... 0.3	6254
Replace a single saddlebag guard rail 0.2	6256

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JOB DESCRIPTION	FGW	
<i>ELECTRICAL (Cont'd)</i>		
Accessories – cont'd		
Replace a saddlebag	0.2	6257
Replace saddlebag mounting bracket or bag guard	0.2	6253
Replace saddlebag cover one	0.2	6260
Replace saddlebag lock	0.2	6259
Replace one saddlebag tether strap	0.1	6262
Replace Tour-Pak lock or latch	0.2	6261
Replace one frame sidecover.....	0.1	6263
Replace Tour-Pak hinge.....	0.3	6264
Replace nameplate Tour-Pak.....	0.2	6266
Change lock-set	0.5	6276
Replace Tour-Pak cover.....	0.7	6270
Replace bumper		
front.....	0.3	6303
rear.....	0.2	6305
Replace highway bar		
front.....	0.6	6353
rear – left	0.3	6355
– right	0.4	6357
Replace Tour-Pak mount / luggage rack.....	0.8	6453
Replace Tour-Pak – includes lights and brackets, antenna assembly, backrest, and rear speakers.....	2.6	6509
Replace mirror.....	0.1	6513
Replace backrest.....	0.2	6515
Sound System – Diagnosis, Repair		
Replace radio chassis – includes SWR check	0.4	6601
Complete CB antenna inspection – includes checking S.W.R.	0.2	6602
Replace one front speaker.....	0.4	6605
Replace one rear speaker	0.6	6606
Replace rear speaker housing		
right side	0.3	6608
left side.....	0.3	6610
Replace one speaker grill		
front.....	0.2	6607
rear.....	0.1	6612
Replace front antenna lead.....	1.8	6609
Replace antenna mast mount	0.2	6611
Replace CB antenna mast – includes checking S.W.R.	0.3	6613
Replace audio harness	1.8	6614
Replace stereo antenna mast.....	0.3	6617
Replace CB loading coil – includes checking S.W.R.	0.3	6618
Replace console switch housing	0.3	6623
Replace front headset DIN cover	0.3	6619
Replace rear headset DIN cover	0.1	6628

*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE																																																												
JOB DESCRIPTION	FGW																																																													
<p><i>ELECTRICAL (Cont'd)</i></p> <p>Accessories – Cruise Control – Diagnosis – Repair</p> <p><i>NOTE: The charts referenced below are located in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i></p> <table border="0"> <tr> <td>No set switch as per Chart A</td> <td>0.3</td> <td>6637</td> </tr> <tr> <td>No resume switch as per Chart B.....</td> <td>0.3</td> <td>6639</td> </tr> <tr> <td>No cruise lamp as per Chart C</td> <td>0.3</td> <td>6641</td> </tr> <tr> <td>No cruise power as per Chart D</td> <td>0.3</td> <td>6643</td> </tr> <tr> <td>No power from cruise enable as per Chart E.....</td> <td>0.5</td> <td>6645</td> </tr> <tr> <td>Constant brake light input as per Chart F-1</td> <td>0.2</td> <td>6647</td> </tr> <tr> <td>No front or rear brake light input – Chart F-2</td> <td>0.3</td> <td>6649</td> </tr> <tr> <td>Diagnose throttle switch input as per Chart G</td> <td>0.2</td> <td>6651</td> </tr> <tr> <td>No speedometer input as per Chart H</td> <td>0.8</td> <td>6653</td> </tr> <tr> <td>No tachometer input as per Chart I</td> <td>0.3</td> <td>6655</td> </tr> <tr> <td>Replace cruise cable.....</td> <td>0.5</td> <td>6630</td> </tr> <tr> <td>Replace cruise module</td> <td>0.7</td> <td>6635</td> </tr> </table>			No set switch as per Chart A	0.3	6637	No resume switch as per Chart B.....	0.3	6639	No cruise lamp as per Chart C	0.3	6641	No cruise power as per Chart D	0.3	6643	No power from cruise enable as per Chart E.....	0.5	6645	Constant brake light input as per Chart F-1	0.2	6647	No front or rear brake light input – Chart F-2	0.3	6649	Diagnose throttle switch input as per Chart G	0.2	6651	No speedometer input as per Chart H	0.8	6653	No tachometer input as per Chart I	0.3	6655	Replace cruise cable.....	0.5	6630	Replace cruise module	0.7	6635																								
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<p><i>SIDECAR</i></p> <p>2001 FLHTCU-I with Sidecar</p> <table border="0"> <tr> <td>Replace sidecar windshield.....</td> <td>0.2</td> <td>6901</td> </tr> <tr> <td>Replace sidecar fender</td> <td>0.8</td> <td>6904</td> </tr> <tr> <td>Replace seat</td> <td>0.2</td> <td>6907</td> </tr> <tr> <td>Replace seat cable.....</td> <td>0.5</td> <td>6910</td> </tr> <tr> <td>Replace liner (carpeting)</td> <td>0.4</td> <td>6913</td> </tr> <tr> <td>Replace armrest storage pouch</td> <td>0.2</td> <td>6916</td> </tr> <tr> <td>Replace armrest.....</td> <td>0.2</td> <td>6919</td> </tr> <tr> <td>Replace handles</td> <td>0.1</td> <td>6922</td> </tr> <tr> <td>Replace brake pads</td> <td>0.2</td> <td>6926</td> </tr> <tr> <td>Replace brake caliper.....</td> <td>0.3</td> <td>6927</td> </tr> <tr> <td>Replace brake disc.....</td> <td>0.3</td> <td>6929</td> </tr> <tr> <td>Replace wheel.....</td> <td>0.7</td> <td>6931</td> </tr> <tr> <td>Replace axle</td> <td>0.8</td> <td>6934</td> </tr> <tr> <td>Repair/replace audio harness</td> <td>1.0</td> <td>6940</td> </tr> <tr> <td>Replace speaker</td> <td>0.5</td> <td>6943</td> </tr> <tr> <td>Replace speaker pod</td> <td>0.6</td> <td>6946</td> </tr> <tr> <td>Replace amplifier.....</td> <td>0.6</td> <td>6949</td> </tr> <tr> <td>Removal of sidecar for service and reattachment – includes realignment</td> <td>1.1</td> <td>6954</td> </tr> <tr> <td>Sidecar alignment.....</td> <td>0.8</td> <td>6956</td> </tr> <tr> <td>Sidecar tub removal</td> <td>0.3</td> <td>6958</td> </tr> </table>			Replace sidecar windshield.....	0.2	6901	Replace sidecar fender	0.8	6904	Replace seat	0.2	6907	Replace seat cable.....	0.5	6910	Replace liner (carpeting)	0.4	6913	Replace armrest storage pouch	0.2	6916	Replace armrest.....	0.2	6919	Replace handles	0.1	6922	Replace brake pads	0.2	6926	Replace brake caliper.....	0.3	6927	Replace brake disc.....	0.3	6929	Replace wheel.....	0.7	6931	Replace axle	0.8	6934	Repair/replace audio harness	1.0	6940	Replace speaker	0.5	6943	Replace speaker pod	0.6	6946	Replace amplifier.....	0.6	6949	Removal of sidecar for service and reattachment – includes realignment	1.1	6954	Sidecar alignment.....	0.8	6956	Sidecar tub removal	0.3	6958
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*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
FUEL INJECTION SYSTEM		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
Diagnostic check	0.1	7105
Diagnostic check	0.3	7110
Diagnostic check	0.4	7115
Diagnostic check	0.5	7120
Diagnostic check	0.3	7125
No check engine lamp	0.3	7130
No check engine lamp	0.4	7135
No check engine lamp	0.4	7143
No check engine lamp	0.5	7145
Check engine lamp on continuously	0.2	7148
Check engine lamp on continuously	0.1	7150
Check engine lamp on continuously	0.6	7160
Check engine lamp on continuously	0.5	7165
Engine cranks but will not start	0.2	7180
Engine cranks but will not start	0.3	7185
Engine cranks but will not start	0.3	7190
Engine cranks but will not start	0.4	7195
Engine cranks but will not start	0.7	7205
Engine cranks but will not start	0.9	7210
Engine cranks but will not start	0.8	7215
Engine cranks but will not start	1.0	7225
Engine cranks but will not start	1.0	7226
Engine cranks but will not start	1.1	7227
Engine cranks but will not start	1.1	7228
Engine cranks but will not start	1.2	7230
Engine cranks but will not start	0.8	7231
Engine cranks but will not start	1.0	7235
Engine cranks but will not start	1.4	7240
Engine cranks but will not start	1.4	7242
Engine cranks but will not start	1.1	7245
Engine cranks but will not start	1.4	7250
** Engine cranks but will not start	2.4	7255
Engine cranks but will not start	1.2	7260
Engine cranks but will not start	1.5	7265

*Side Car

**Includes timer cover/gearcase cover disassembly

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
FUEL INJECTION SYSTEM (Cont'd)		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
No ECM power.....	..... 0.3	7270
No ECM power.....	..... 0.4	7275
No ECM power.....	..... 0.4	7280
No ECM power.....	..... 0.6	7285
No ECM power.....	..... 0.6	7290
No ECM power.....	..... 0.7	7295
No ECM power.....	..... 0.2	7305
No ECM power.....	..... 0.4	7310
No ECM power.....	..... 0.4	7315
No ECM power.....	..... 0.5	7320
No ECM power.....	..... 0.3	7325
No ECM power.....	..... 0.5	7330
No ECM power.....	..... 0.5	7331
Fuel system electrical test.....	..... 0.4	7335
Fuel system electrical test.....	..... 0.6	7336
Fuel system electrical test.....	..... 0.6	7340
Fuel system electrical test.....	..... 0.4	7345
Fuel system electrical test.....	..... 0.7	7350
Fuel system electrical test.....	..... 0.4	7355
Fuel system electrical test.....	..... 1.0	7360
Fuel system electrical test.....	..... 0.4	7365
Fuel system electrical test.....	..... 0.7	7370
Fuel system electrical test.....	..... 0.4	7375
Fuel system electrical test.....	..... 0.4	7380
Fuel system electrical test.....	..... 0.2	7385
Fuel system electrical test.....	..... 1.0	7390
Fuel system electrical test.....	..... 1.0	7395
Fuel system electrical test.....	..... 1.8	7405
Fuel system electrical test.....	..... 1.2	7410
Fuel system electrical test.....	..... 1.2	7415
Fuel system electrical test.....	..... 0.3	7420
Fuel system electrical test.....	..... 0.4	7425
Fuel system electrical test.....	..... 0.3	7430
Fuel system electrical test.....	..... 0.4	7435
Fuel system electrical test.....	..... 0.4	7440
Fuel system electrical test.....	..... 0.3	7445
Fuel system electrical test.....	..... 0.3	7450

*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
FUEL INJECTION SYSTEM (Cont'd)		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
Fuel pressure test.....	..... 0.2	7455
Fuel pressure test.....	..... 1.2	7460
Fuel pressure test.....	..... 0.6	7465
Fuel pressure test.....	..... 0.6	7470
Fuel pressure test.....	..... 0.6	7475
Fuel pressure test.....	..... 1.6	7480
Idle speed control .....	..... 0.2	7485
Idle speed control .....	..... 0.3	7490
Idle speed control .....	..... 0.5	7495
Idle speed control .....	..... 0.5	7505
Idle speed control .....	..... 0.5	7510
Idle speed control .....	..... 0.6	7515
Idle speed control .....	..... 0.4	7516
Misfire at idle or under load.....	..... 0.1	7520
Misfire at idle or under load.....	..... 0.2	7525
Misfire at idle or under load.....	..... 0.3	7530
Misfire at idle or under load.....	..... 1.0	7535
Misfire at idle or under load.....	..... 0.6	7540
Misfire at idle or under load.....	..... 0.7	7545
Misfire at idle or under load.....	..... 0.9	7550
Throttle position sensor.....	..... 0.2	7555
Throttle position sensor.....	..... 0.5	7560
Throttle position sensor.....	..... 3.4	7565
Throttle position sensor.....	..... 1.8	7570
Throttle position sensor.....	..... 0.4	7575
Throttle position sensor.....	..... 0.4	7580
Throttle position sensor.....	..... 0.4	7585
Throttle position sensor.....	..... 1.8	7590
Throttle position sensor.....	..... 1.8	7595
Throttle position sensor.....	..... 0.4	7605
Throttle position sensor.....	..... 0.4	7610
Throttle position sensor.....	..... 0.4	7615
Barometric pressure sensor.....	..... 0.5	7620
Barometric pressure sensor.....	..... 1.3	7625
Barometric pressure sensor.....	..... 0.8	7630
Barometric pressure sensor.....	..... 0.4	7635
Barometric pressure sensor.....	..... 0.5	7640
Barometric pressure sensor.....	..... 0.5	7645
Barometric pressure sensor.....	..... 0.4	7650
Barometric pressure sensor.....	..... 0.5	7655
Barometric pressure sensor.....	..... 1.0	7946

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
FUEL INJECTION SYSTEM (Cont'd)		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
Engine temperature sensor .....	..... 0.4	7660
Engine temperature sensor .....	..... 1.4	7665
Engine temperature sensor .....	..... 0.8	7670
Engine temperature sensor .....	..... 0.5	7675
Engine temperature sensor .....	..... 0.5	7680
Engine temperature sensor .....	..... 0.5	7685
Engine temperature sensor .....	..... 0.5	7690
Engine temperature sensor .....	..... 0.4	7695
Engine temperature sensor .....	..... 0.7	7705
Engine temperature sensor .....	..... 0.5	7710
Intake air temperature sensor.....	..... 0.6	7715
Intake air temperature sensor.....	..... 3.9	7720
Intake air temperature sensor.....	..... 2.1	7725
Intake air temperature sensor.....	..... 0.6	7730
Intake air temperature sensor.....	..... 0.4	7735
Intake air temperature sensor.....	..... 0.4	7740
Intake air temperature sensor.....	..... 0.6	7745
Intake air temperature sensor.....	..... 0.5	7750
Intake air temperature sensor.....	..... 0.6	7755
Intake air temperature sensor.....	..... 2.1	7760
Battery voltage test** .....	..... 0.7	7765
Battery voltage test** .....	..... 0.8	7770
Battery voltage test** .....	..... 0.8	7775
Battery voltage test** .....	..... 1.1	7780
Fuel injectors .....	..... 0.2	7785
Fuel injectors .....	..... 0.3	7790
Fuel injectors .....	..... 1.3	7795
Fuel injectors .....	..... 0.5	7805
Fuel injectors .....	..... 0.7	7810
Fuel injectors .....	..... 0.4	7815
Fuel injectors .....	..... 0.5	7820
Fuel injectors .....	..... 0.5	7825
Fuel injectors .....	..... 0.5	7830
Fuel injectors .....	..... 0.5	7835
Fuel injectors .....	..... 0.6	7840
Fuel injectors .....	..... 0.4	7845
Fuel injectors .....	..... 0.4	7850

*Side Car

**Includes charging diagnostics

2001

Orig. 6/00

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
FUEL INJECTION SYSTEM (Cont'd)		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
Ignition coil test.....	..... 0.3	7855
Ignition coil test.....	..... 0.8	7856
Ignition coil test.....	..... 0.4	7860
Ignition coil test.....	..... 0.5	7865
Ignition coil test.....	..... 0.3	7870
Ignition coil test.....	..... 0.4	7875
Ignition coil test.....	..... 0.2	7880
Fuel pump relay.....	..... 0.4	7885
Fuel pump relay.....	..... 0.7	7890
Fuel pump relay.....	..... 0.5	7895
Fuel pump relay.....	..... 0.2	7905
Fuel pump relay.....	..... 0.4	7910
Tachometer.....	..... 0.5	7881
Tachometer.....	..... 0.5	7882
Tachometer.....	..... 0.5	7883
Tachometer.....	..... 0.5	7884
Tachometer.....	..... 0.6	7886
Crank position sensor.....	..... 0.4	7980
Crank position sensor.....	..... 1.0	7981
Crank position sensor.....	..... 0.5	7982
Crank position sensor.....	..... 1.2	7983
Crank position sensor.....	..... 1.1	7984
Crank position sensor.....	..... 1.2	7985
Crank position sensor.....	..... 0.6	7986
Crank position sensor.....	..... 0.6	7987
Crank position sensor.....	..... 0.3	7988
Cam position sensor.....	..... 1.9	7941
Cam position sensor.....	..... 0.4	7942
Cam position sensor.....	..... 0.4	7943
Cam position sensor.....	..... 0.4	7944
Cam position sensor.....	..... 1.0	7946
Cam position sensor.....	..... 0.3	7947
Cam position sensor.....	..... 0.4	7948
Cam position sensor.....	..... 1.2	7969
Bank angle sensor.....	..... 0.2	7971
Bank angle sensor.....	..... 0.3	7972
Bank angle sensor.....	..... 0.4	7973
Bank angle sensor.....	..... 0.3	7974
Bank angle sensor.....	..... 0.4	7975
Bank angle sensor.....	..... 0.2	7976

*Side Car

JAPAN ONLY - FLHTCU-I w/SC* MODEL Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FGW	
<p>FUEL INJECTION SYSTEM (Cont'd)</p> <p><i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i></p> <p>ECM failure.....</p>	<p>..... 0.2</p>	<p>7913</p>

***Side Car**

**Includes charging diagnostics

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
SERVICE			
New			
Set-up and pre-delivery	2.5	2.5	---
1,000 mile service	2.5	2.5	---
Regular			
2,500 mile maintenance	0.5	0.5	---
5,000 mile maintenance	2.5	2.5	---
7,500 mile maintenance	0.5	0.5	---
10,000 mile maintenance	4.5	4.5	---
CHASSIS			
Drive			
Adjust secondary belt	0.3	0.3	---
Replace secondary belt.....	2.8	2.8	2011
Replace rear wheel sprocket.....	0.8	0.8	2021
Wheels			
Replace tire - includes balancing			
front	0.6	0.6	2106
rear	0.7	0.7	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing			
front	0.8	0.8	2113
rear	0.9	0.9	2114
Replace wheel bearings			
front	0.6	0.6	2136
rear	0.7	0.7	2143
True spoked wheel.....			
front	0.4	0.4	2156
Replace rim, hub or spokes			
front	2.2	2.3	2116
rear	2.3	2.3	2121
Handlebars			
Replace handlebars	0.8	0.8	2176
Replace clutch hand lever.....	0.2	0.2	2221
Replace clutch hand lever bracket.....	0.2	0.2	2226
Replace throttle control	0.4	0.4	2231
Replace and adjust throttle control cables			
one or both	0.6	0.6	2241
Replace both rubber handlebar mounts.....	0.6	1.0	2246
Replace rubber handlebar grip.....	0.2	0.2	2251
Replace handlebar riser			
one or both	0.5	1.0	2253
Replace handlebar clamp			
one or both	0.3	0.8	2254

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
CHASSIS (Cont'd)			
Frame/Swing Arm/Front Fork			
Replace frame – includes removal and installation of all accessories and motorcycle components .....	..... 17.0 .....	..... 17.5	2306
Replace rear frame section and tag bracket .....	..... 1.0 .....	..... 1.0	2308
Replace front fork assembly.....	..... 3.0 .....	..... 3.0	2311
Replace lower fork bracket and stem .....	..... 3.2 .....	..... 3.2	2316
Replace steering head cups and bearings, including bearing adjustment.....	..... 3.2 .....	..... 3.2	2321
Replace upper fork bracket .....	..... 2.7 .....	..... 2.7	2326
Adjust steering head bearings.....	..... 0.7 .....	..... 0.3	---
Change front fork oil.....	..... 0.7 .....	..... 0.5	---
Replace front nacelle .....	..... --- .....	..... 0.6	2331
Replace complete lock set .....	..... 0.4 .....	..... 0.4	2333
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation			
one side.....	..... 1.9 .....	..... 1.9	2341
both sides.....	..... 2.3 .....	..... 2.3	2342
Replace fork side			
one side.....	..... 1.2 .....	..... 1.2	2346
both sides.....	..... 1.5 .....	..... 1.5	2351
Replace fork tube			
one side.....	..... 1.4 .....	..... 1.4	2356
both sides.....	..... 1.7 .....	..... 1.7	2361
Replace front fork air line .....	..... 0.7 .....	..... 0.6	2363
Replace rear swing arm and/or bushings.....	..... 2.2 .....	..... 2.2	2366
Replace rear fork pivot shaft .....	..... 1.0 .....	..... 1.0	2368
Replace rear shock absorber assembly			
one side.....	..... 0.3 .....	..... 0.3	2371
both sides.....	..... 0.6 .....	..... -- .....	2376
Replace rear shock air line.....	..... 0.1 .....	..... 0.1	2369
Replace rear shock absorber component(s)			
one side.....	..... 0.5 .....	..... 0.5	2381
both sides.....	..... 0.8 .....	..... 0.8	2386
Replace jiffy stand			
complete.....	..... 0.3 .....	..... 0.3	2391
spring and/or stand .....	..... 0.2 .....	..... 0.2	2396
rubber bumper.....	..... 0.1 .....	..... 0.1	2399
Replace rubber motor mount			
rear right.....	..... 0.5 .....	..... 0.5	2395
rear left .....	..... 0.5 .....	..... 0.5	2397
front.....	..... 0.4 .....	..... 0.4	2398
Replace footboard – each .....	..... 0.2 .....	..... 0.2	2394

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
CHASSIS (Cont'd)			
Brakes			
Replace hydraulic brake line – includes filling/bleeding brakes			
front	1.0	1.0	2406
rear	0.4	0.4	2411
Replace rear master cylinder reservoir and/or hose	0.2	0.2	2414
Replace brake pads			
front – each caliper	0.1	0.1	2416
rear	0.2	0.2	2421
Replace brake caliper – includes filling/bleeding brakes			
front – each cylinder	0.4	0.4	2426
rear	1.0	1.0	2431
Replace brake disc			
front – one side	0.3	0.3	2436
– both sides	0.4	0.4	2437
rear	1.3	1.3	2441
Bleed brake caliper – one or two front calipers or rear caliper	0.2	0.2	2446
Overhaul brake caliper – includes filling/bleeding brakes			
front (each caliper)	0.6	0.6	2451
rear	1.3	1.3	2456
Replace master cylinder assembly – includes filling/bleeding brakes			
front	0.4	0.4	2461
rear	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes			
front	0.6	0.6	2471
rear	0.7	0.7	2476
Replace rear brake pedal	0.3	0.3	2492
Replace front brake lever	0.1	0.1	2494
Seats/Fenders/Tanks			
Replace seat and /or spring(s) or hinge bracket	0.2	0.2	2506
Replace top frame cover (solo seat)	0.3	0.3	2510
Replace seat air spring	0.4	0.4	2514
Replace air tank	0.8	0.8	2516
Replace air line	0.5	0.5	2518
Replace fender			
front	1.0	1.0	2526
rear	1.5	1.5	2531
Replace rear fender support – one only	0.1	0.1	2536
Replace fuel tank assembly	1.2	1.2	2541
Replace fuel tank valve	---	---	2561
Replace fuel tank console	0.2	---	2562
Replace fuel tank gauge	0.5	0.5	2563
Replace fuel gauge sending unit	0.6	0.6	2564
Replace fuel tank check valve assembly in/out/O-ring	0.8	0.8	2567
Replace canopy gasket	0.5	0.5	2570
Replace fuel pump	0.6	0.6	2573
Replace fuel filter	0.6	0.6	2575
Replace any hose	0.3	0.3	2576
Replace fuel hose or any hose inside tank	0.6	0.6	2579
Replace oil filter	0.1	0.1	2582
Replace oil filter bracket	0.6	0.6	2584

POLICE MODELS – FLHTTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
CHASSIS (Cont'd)			
Belt Guards			
Replace debris deflector (belt drive).....	..... 0.2 .....	..... 0.2	2616
Exhaust System			
Replace complete exhaust system and/or gaskets.....	..... 1.0 .....	..... 1.0	2626
Replace exhaust pipe			
right side/front .....	..... 1.0 .....	..... 1.0	2631
left side/rear .....	..... 0.3 .....	..... 0.3	2636
Replace one muffler .....	..... 0.2 .....	..... 0.2	2646
Replace any one exhaust shield .....	..... 0.1 .....	..... 0.1	2661
Replace one muffler support .....	..... 0.2 .....	..... 0.2	2666
ENGINE			
General			
Remove and install engine.....	..... 4.5 .....	..... 4.5	3006
Replace and adjust stabilizer – top .....	..... 0.8 .....	..... 0.8	3005
Replace and adjust stabilizer – front .....	..... 0.3 .....	..... 0.3	3007
Remove and replace oil pand for inspection/contamination with engine removed .....	..... 0.3 .....	..... 0.3	3009
Cylinder Head			
Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.			
front head .....	..... 4.5 .....	..... 4.5	3101
rear head.....	..... 4.5 .....	..... 4.5	3103
both heads .....	..... 5.1 .....	..... 5.1	3104
Replace cylinder head			
one head .....	..... 3.2 .....	..... 3.2	3106
both heads .....	..... 3.8 .....	..... 3.8	3108
Replace valve seal or spring after cylinder head removal			
one seal or spring (intake or exhaust ) .....	..... 0.1 .....	..... 0.1	3131
both seals or springs (intake or exhaust) .....	..... 0.2 .....	..... 0.2	3132
Replace cylinder head gasket/O-ring			
front cylinder.....	..... 2.6 .....	..... 2.6	3140
rear cylinder.....	..... 2.6 .....	..... 2.6	3142
both cylinders .....	..... 3.0 .....	..... 3.0	3143
Replace rocker arm covers and/or gaskets			
front cylinder.....	..... 0.8 .....	..... 0.8	3144
rear cylinder.....	..... 0.8 .....	..... 0.8	3145
both cylinders .....	..... 0.9 .....	..... 0.9	3148
Recondition rocker arms after removal			
one head .....	..... 0.7 .....	..... 0.7	3149
both heads .....	..... 1.4 .....	..... 1.4	3150
Replace lower rocker arm cover/gasket, or rocker arms and /or shafts			
front cylinder.....	..... 1.2 .....	..... 1.2	3147
rear cylinder.....	..... 1.2 .....	..... 1.2	3152
both heads .....	..... 1.4 .....	..... 1.4	3153
Replace cylinder O-ring/drain O-ring			
front cylinder.....	..... 2.8 .....	..... 2.8	3161
rear cylinder.....	..... 2.8 .....	..... 2.8	3163
both cylinders .....	..... 3.2 .....	..... 3.2	3168
Replace crankcase umbrella valve			
one .....	..... 1.1 .....	..... 1.1	3172
both .....	..... 1.2 .....	..... 1.2	3174

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
ENGINE (Cont'd)			
Cylinder and Piston			
Recondition TOP END – includes disassembly, replacing piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.5	5.5	3202
both pistons and cylinders	6.1	6.1	3203
Recondition TOP END – includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.9	5.9	3211
both pistons and cylinders	6.5	6.5	3212
Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.3	5.3	3207
both pistons and cylinders	5.9	5.9	3208
Replace piston rings – includes deglazing cylinder			
one cylinder	3.1	3.1	3206
both cylinders	3.7	3.7	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly			
one cylinder	3.7	3.7	3221
both cylinders	4.9	4.9	3231
Replace cylinder and piston			
one cylinder	3.0	3.0	3236
both cylinders	3.5	3.5	3246
Replace upper connecting rod bushing during upper end repair			
.....	0.4	0.4	3251
Replace one cylinder stud – cylinder removed			
.....	0.1	0.1	3253
Replace all eight cylinder studs – cylinders removed			
.....	0.5	0.5	3254
Cam Cover			
Replace lifter cover/gasket or lifter/and, or anti-rotation pin			
one	1.4	1.4	3307
both	1.6	1.6	3310
Replace push rod, push rod cover and/or O-ring or quad seal			
one or two same cylinder	1.4	1.4	3317
one each cylinder	1.6	1.6	3318
Replace cam cover and/or gasket			
.....	1.6	1.6	3325
Replace primary cam chain, sprockets and/or fastener			
.....	1.7	1.7	3327
Replace primary cam chain tensioner			
.....	1.7	1.7	3328
Replace cam support plate/O-rings			
.....	2.8	2.8	3335
Replace cam support plate			
.....	2.8	2.8	3337
Replace cam support bearing/cams/secondary cam chain/tensioner			
.....	3.0	3.0	3338
Replace oil pump and/or O-rings			
.....	2.6	2.6	3341
Replace cam bearing crankcase			
one bearing	2.8	2.8	3342
two bearings	2.9	2.9	3343
By-pass valve inspection			
.....	2.7	2.7	3354

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
ENGINE (Cont'd)			
Crankcase			
Replace crankcases – includes remove and install engine	..... 8.1 .....	..... 8.1	3406
Seal crankcase only .....	..... 7.5 .....	..... 7.5	3407
Replace flywheels – includes remove and install engine ..	..... 7.6 .....	..... 7.6	3411
Replace right side main bearing .....	..... 7.0 .....	..... 7.0	3412
Piston jet/O-ring			
one .....	..... 3.0 .....	..... 3.0	3413
both .....	..... 3.4 .....	..... 3.4	3414
Filter housing and or O-rings .....	..... 0.2 .....	..... 0.2	3415
Check flywheel trueness before assembly or after removal.	..... 0.1 .....	..... 0.1	3420
True flywheels after removal – includes piston removal and reinstallation .....	..... 0.5 .....	..... 0.5	3421
Recondition cylinder heads – head removed			
(for non-related repairs)			
one head .....	..... 1.0 .....	..... 1.0	3425
both heads .....	..... 2.0 .....	..... 2.0	3426
Replace piston rings – cylinders removed			
(for non-related repairs – deglaze only) .....	..... 0.3 .....	..... 0.3	3428
Fuel System			
Replace air cleaner backing plate .....	..... 0.2 .....	..... 0.2	3501
Replace air cleaner cover .....	..... 0.1 .....	..... 0.1	3502
Replace induction module – includes making cruise			
control adjustment .....	..... 1.0 .....	..... 1.0	3508
Replace induction module seal .....	..... 1.0 .....	..... 1.0	3510
Replace external fuel supply/return hose - one or both .....	..... 0.6 .....	..... 0.6	3514
Evaporative Emissions System			
Replace canister .....	..... 0.1 .....	..... --- .....	3527

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
DRIVE/CLUTCH			
Drive			
Adjust primary chain.....	0.2	0.2	----
Replace primary inspection cover and/or O-ring.....	0.1	0.2	4001
Replace primary chain.....	0.9	0.9	4002
Replace engine sprocket.....	0.9	0.9	4003
Replace engine sprocket seal.....	1.3	1.3	4005
Replace primary cover.....	0.4	0.4	4007
Replace inner primary case and/or mainshaft bearing.....	2.1	2.1	4008
Replace primary cover gasket.....	0.4	0.4	4009
Clutch			
Adjust clutch.....	0.2	0.2	----
Replace release cable assembly.....	1.5	1.5	4006
Service the clutch – includes disassembly, cleaning, inspection, repair, assembly, and adjustment.....	1.3	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	0.4	4016
Replace clutch release (ball ramp) and/or side cover.....	1.6	1.6	4018
TRANSMISSION			
Transmission Case			
Replace transmission case.....	5.3	5.3	4304
Replace transmission – complete.....	4.9	4.9	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case in frame), assembly.....	4.6	4.6	4306
Replace transmission sprocket.....	2.2	2.2	4309
Replace main drive gear oil seal (in transmission case).....	2.3	2.3	4311
Replace mainshaft oil seal (in main drive gear).....	2.2	2.2	4316
Replace side door gasket.....	2.8	2.8	4321
Replace shifter drum – includes removal, adjusting cam spacing and end play, and installation.....	1.4	1.4	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement.....	3.0	3.0	4336
Replace transmission top cover and/or gasket.....	1.2	1.2	4341
Replace shifter forks and/or shaft – includes checking gear engagement.....	0.9	0.9	4343
Replace side door bearing			
one.....	3.0	3.0	4348
both.....	3.1	3.1	4351
Replace transmission case countershaft bearing.....	2.9	2.9	4361
Replace main drive gear and/or bearing.....	3.2	3.2	4366
Replace transmission side cover gasket.....	0.9	0.9	4368
Replace oil pan and/or gasket or baffle			
Note: Removal of rear wheel may be necessary.....	0.9	0.9	4378
Replace oil fill tube and/or cover, and/or gasket.....	0.3	0.3	4379
Replace transmission shifter shaft seal.....	2.2	2.2	4390

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
<p>ELECTRICAL</p> <p><i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2001 Service Manual and electrical diagnostic manual, Part No. 99495-01.</i></p> <p>General Check and diagnose the electrical system Lights and accessories – excluding turn signals Charging circuit: diagnose charging system – regulator inspection diagnose charging system – failed regulator bleed test diagnose charging system – excessive milliamp draw... diagnose charging system – total current draw replace regulator/stator connector..... diagnose charging system – open or grounded stator diagnose system – failed AC output test diagnose charging system – regulator failure..... diagnose charging system – excessive voltage output (regulator) diagnose charging system – replace rotor Starter circuit: Starter inoperative – open/shorted/ground motor Starter inoperative – start button Starter inoperative – solenoid clicks; poor starter or battery connections Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts Starter inoperative – solenoid clicks; poor starter to battery connections, ground connections, or bad solenoid contacts Starter inoperative – damaged motor Starter inoperative – relay click; open in relay wiring ... Starter inoperative – nothing clicks; poor relay ground Starter inoperative – nothing clicks; short to voltage.... Starter inoperative – nothing clicks; open in wiring to or from starter button..... Starter inoperative – starter relay Slow starter crank or starter stalls; poor starter to battery connections, ground connections Slow starter crank or starter stalls binding</p>	<p>0.3</p> <p>0.1</p> <p>0.9</p> <p>0.2</p> <p>0.2</p> <p>0.2</p> <p>1.8</p> <p>1.8</p> <p>1.0</p> <p>1.0</p> <p>1.3</p> <p>1.4</p> <p>1.0</p> <p>0.2</p> <p>0.3</p> <p>0.3</p> <p>0.4</p> <p>0.5</p> <p>0.4</p> <p>0.2</p> <p>0.3</p>	<p>0.3</p> <p>0.1</p> <p>0.9</p> <p>0.2</p> <p>0.2</p> <p>0.2</p> <p>1.8</p> <p>1.8</p> <p>1.0</p> <p>1.0</p> <p>1.3</p> <p>1.4</p> <p>1.0</p> <p>0.2</p> <p>0.3</p> <p>0.3</p> <p>0.4</p> <p>0.5</p> <p>0.4</p> <p>0.2</p> <p>0.3</p>	<p>5016</p> <p>5306</p> <p>5307</p> <p>5308</p> <p>5310</p> <p>5311</p> <p>5312</p> <p>5314</p> <p>5315</p> <p>5316</p> <p>5319</p> <p>5817</p> <p>5818</p> <p>5822</p> <p>5823</p> <p>5824</p> <p>5825</p> <p>5827</p> <p>5828</p> <p>5830</p> <p>5831</p> <p>5832</p> <p>5835</p> <p>5836</p>

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
ELECTRICAL			
General - cont-d			
Starter circuit - cont'd:			
Starter spins – clutch.....	..... 1.5 .....	..... 1.5	5837
Starter inoperative – nothing clicks; TSM / TSSM.....	..... 0.4 .....	..... 0.4	5838
Replace starter solenoid – contacts includes			
starter motor removal.....	..... 1.6 .....	..... 1.6	5845
Starter binding .....	..... 1.6 .....	..... 1.6	5850
Replace starter solenoid – coil includes starter motor removal	..... 1.6 .....	..... 1.6	5860
Instruments			
Fuel gauge, see FUEL TANK..... --- ---	---
Replace speedometer – cosmetics only.....	..... 0.2 .....	..... 0.2	6003
Replace tachometer .....	..... 0.2 .....	..... 0.2	6009
Replace indicator panel lens .....	..... 0.3 .....	..... --- .....	6018
Replace instrument housing (console).....	..... --- .....	..... 0.3	6019
Electronic speedometer:			
Diagnose inoperative, inaccurate or erratic speedometer			
– switch .....	..... 0.3 .....	..... 0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer	..... 0.1 .....	..... 0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer			
– wiring.....	..... 0.2 .....	..... 0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer			
– replace .....	..... 0.5 .....	..... 0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer			
– wiring.....	..... 0.4 .....	..... 0.5	6008
Diagnose inoperative, inaccurate or erratic speedometer			
– sensor .....	..... 0.5 .....	..... 0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer			
– open .....	..... 0.6 .....	..... 0.6	6013
Diagnose inoperative, inaccurate or erratic speedometer			
– LED failure.....	..... 0.3 .....	..... 0.2	6014
Diagnose inoperative, inaccurate or erratic speedometer			
– wires.....	..... 0.4 .....	..... 0.4	6016
Odometer inoperable.....	..... 0.3 .....	..... 0.2	6020
Diagnose inoperative, inaccurate or erratic speedometer			
– internal.....	..... 0.5 .....	..... 0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer			
– power/ground .....	..... 0.5 .....	..... 0.5	6024
Diagnose inoperative, inaccurate or erratic speedometer			
– debris on sensor.....	..... 0.5 .....	..... 0.5	6029
Wiring			
Replace connector housing.....	..... 0.1 .....	..... 0.1	5022
Replace connector anchor .....	..... 0.1 .....	..... 0.1	5023
Replace main wiring harness .....	..... 3.6 .....	..... 3.1	5026
Replace EFI harness.....	..... 1.7 .....	..... 1.7	5033
Replace rear fender wiring harness .....	..... 0.8 .....	..... 0.8	5036
Replace any single wire			
light circuit .....	..... 0.2 .....	..... 0.2	5039
accessory circuit.....	..... 0.2 .....	..... 0.2	5043
Diagnose/repair indicator lamp wiring .....	..... 0.3 .....	..... 0.3	5048
Replace front fender wiring harness.....	..... 0.9 .....	..... 0.9	5049
Replace inter-connect harness.....	..... 0.5 .....	..... --- .....	5052

POLICE MODELS – FLHTTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
ELECTRICAL (Cont'd)			
Switches			
Replace ignition switch.....	0.5	0.2	5129
Replace left upper handlebar switch.....	0.5	0.5	5171
Replace right upper handlebar switch.....	0.7	0.7	5173
Replace front brake light switch.....	0.6	0.6	5176
Replace left upper handlebar switch housing.....	0.2	0.2	5177
Replace left lower handlebar switch housing.....	0.4	0.4	5178
Replace right upper handlebar switch housing.....	0.2	0.2	5179
Replace right lower handlebar switch housing.....	0.7	0.7	5180
Replace pursuit/aux switch.....	0.8	0.8	5187
Replace horn/yelp siren switch.....	0.8	0.8	5188
Replace rear stoplight switch.....	0.4	0.4	5141
Replace circuit breaker.....	0.2	0.1	5145
Replace main fuse.....	0.2	0.2	5147
Replace fuse block			
one.....	0.3	0.3	5148
two.....	0.5	0.6	5151
Replace transmission neutral switch – include diagnosis ..	0.3	0.3	5157
Replace oil pressure switch – include diagnosis.....	0.3	0.3	5161
Replace clutch lockout switch.....	0.5	0.5	5168
Replace rear stoplight relay.....	0.1	0.1	5169
Lights			
Replace headlight – includes diagnosis.....	0.1	0.1	5185
Replace headlight housing – includes adjustment.....	0.2	0.2	5189
Replace indicator lamp assembly.....	---	0.2	5191
Replace instrument bulb – includes diagnosis.....	0.2	---	5193
Replace rear turn signal light bar.....	0.4	0.4	5207
Replace taillight bulbs or single light bulb or lens			
– includes diagnosis.....	0.1	0.1	5197
Replace taillight assembly or circuit board.....	0.2	0.2	5215
Replace turn signal light assembly			
front.....	0.4	0.4	5201
rear.....	0.4	0.4	5205
Replace fender tip light bulb or lens – includes diagnosis			
front.....	0.1	0.1	5217
rear.....	0.1	0.1	5221
Replace fender tip lamp assembly			
front.....	0.2	0.2	5225
rear.....	0.3	0.3	5229
Replace passing lamp bulb – includes diagnosis.....	0.1	0.1	5227
Replace pursuit lamp – front.....	0.4	0.4	5230
Replace pursuit lamp bracket.....	0.7	0.7	5232
Turn Signals/Security System			
No security lamp.....	0.4	0.4	6735
No security lamp.....	0.4	0.4	6736
No security lamp.....	0.4	0.4	6737
No security lamp.....	0.4	0.4	6738
No security lamp.....	0.1	0.1	6739
No security lamp.....	0.2	0.2	6740
No security lamp.....	0.3	0.3	6741
No security lamp.....	0.3	0.3	6742
No security lamp.....	0.3	0.3	6743
No security lamp.....	0.2	0.2	6744
No security lamp.....	0.3	0.3	6745

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
ELECTRICAL (Cont'd)			
Turn Signals/Security System - cont'd			
Security lamp on continuously	0.2	0.2	6750
Security lamp on continuously	0.3	0.3	6751
Security lamp on continuously	0.4	0.4	6752
Fob signal weak	0.1	0.1	6755
Fob signal weak	0.1	0.1	6756
Fob signal weak	0.2	0.2	6757
Turn signal error 2A.....	0.9	0.9	6773
Turn signal error 2B.....	0.6	0.6	6777
Turn signal error 2B.....	0.5	0.5	6778
Turn signal error 2B.....	0.7	0.7	6779
Turn signal error 2B.....	0.6	0.6	6780
Turn signal error 2C	0.7	0.7	6784
Turn signal error 2C	0.7	0.7	6785
Turn signal error 2C	1.1	1.1	6786
Turn signal error 3A.....	0.3	0.3	6790
Turn signal error 3A.....	0.2	0.2	6791
Turn signal error 3A.....	0.1	0.1	6792
Turn signal error 3A.....	0.3	0.3	6793
Turn signal error 3B.....	0.1	0.1	6796
Turn signal error 3B.....	0.3	0.3	6797
Turn signal error 3B.....	0.3	0.3	6798
Turn signal error 3B.....	0.3	0.3	6799
Turn signal error 3B.....	0.3	0.3	6800
Turn signal error 3C	0.3	0.3	6805
Turn signal error 3C	0.3	0.3	6806
Turn signal error 3C	0.2	0.2	6807
Turn signal error 3C	0.3	0.3	6808
Turn signal error 3D	0.3	0.3	6810
Turn signal error 3D	0.7	0.7	6811
Turn signal error 3D	0.4	0.4	6812
Turn signal error 3D	0.3	0.3	6813
Turn signal error 3D	0.4	0.4	6814
Turn signal error 3D	0.7	0.7	6815
Turn signal error 3D	0.4	0.4	6816
Turn signal error 4A.....	0.2	0.2	6820
Turn signal error 4A.....	0.2	0.2	6821
Turn signal error 4A.....	0.4	0.4	6822
* Turn signal error 4A.....	0.3	0.3	6823
Turn signal error 4A.....	0.5	0.5	6824
Ignition enable output high	0.3	0.3	6827
Ignition enable output high	0.3	0.3	6828
Alarm output.....	0.3	0.3	6830
Alarm output.....	0.3	0.3	6831
Alarm output.....	0.3	0.3	6832
Alarm output.....	0.4	0.4	6833
Alarm output.....	0.3	0.3	6834
Alarm output.....	0.3	0.3	6835
Starter output high.....	0.3	0.3	6840
Starter output high.....	0.2	0.2	6841
Starter output high.....	0.3	0.3	6842
Accelerometer fault	0.2	0.2	6845

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
<i>ELECTRICAL (Cont'd)</i>			
Battery/Horn			
Replace the battery .....	..... 0.2 .....	..... 0.2	5705
Replace horn and/or bracket.....	..... 0.2 .....	..... 0.2	5765
Replace battery tray .....	..... 0.3 .....	..... 0.3	5767
Accessories			
Replace windshield .....	..... 0.1 .....	..... 0.1	6203
Replace windshield bushing - all or one.....	..... -- .....	..... 0.2	6208
Replace inner fairing .....	..... 1.7 .....	..... 1.4	6209
Replace saddlebag mounting bracket.....	..... 0.2 .....	..... 0.2	6253
Replace saddlebag guard – complete.....	..... 0.3 .....	..... 0.3	6254
Replace outer fairing support brace .....	..... 0.6 .....	..... -- .....	6255
Replace inner fairing bracket.....	..... 0.7 .....	..... -- .....	6265
Replace a single saddlebag guard rail .....	..... 0.2 .....	..... 0.2	6256
Replace a saddlebag .....	..... 0.2 .....	..... 0.2	6257
Replace one saddlebag mounting spring.....	..... 0.3 .....	..... 0.3	6259
Replace saddlebag cover – one.....	..... 0.2 .....	..... 0.2	6260
Replace saddlebag lock .....	..... 0.2 .....	..... 0.2	6261
Replace one frame sidecover.....	..... 0.1 .....	..... 0.1	6263
Replace fairing cap.....	..... 0.3 .....	..... -- .....	6271
Replace bumper			
front .....	..... 0.3 .....	..... 0.3	6303
rear .....	..... 0.2 .....	..... 0.2	6305
Replace highway bar			
front .....	..... 0.4 .....	..... 0.4	6353
rear – left .....	..... 0.5 .....	..... 0.5	6355
– right .....	..... 0.8 .....	..... 0.4	6357
Replace radio carrier.....	..... 0.7 .....	..... 0.7	6453
Replace mirror.....	..... 0.1 .....	..... 0.1	6513
Replace amplifier.....	..... 0.2 .....	..... 0.2	6521
Replace speaker .....	..... 0.1 .....	..... 0.1	6523
Replace strobe lamp .....	..... 0.6 .....	..... 0.6	6526
Repair or replace rear mount .....	..... 0.3 .....	..... 0.3	6529

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
FUEL INJECTION SYSTEM			
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Diagnostic check.....	0.1	0.1	7105
Diagnostic check.....	0.3	0.3	7110
Diagnostic check.....	0.4	0.4	7115
Diagnostic check.....	0.5	0.5	7120
Diagnostic check.....	0.3	0.3	7125
No check engine lamp	0.3	0.3	7130
No check engine lamp	0.3	0.4	7135
No check engine lamp	0.3	0.5	7140
No check engine lamp	0.6	0.6	7145
No check engine lamp	0.3	0.3	7148
Check engine lamp on continuously.....	0.1	0.1	7150
Check engine lamp on continuously.....	0.5	0.5	7160
Check engine lamp on continuously.....	0.4	0.4	7165
Engine cranks but will not start	0.2	0.2	7180
Engine cranks but will not start	0.3	0.3	7185
Engine cranks but will not start	0.3	0.3	7190
Engine cranks but will not start	0.4	0.4	7195
Engine cranks but will not start	0.7	0.7	7205
Engine cranks but will not start	0.9	0.9	7210
Engine cranks but will not start	0.8	0.8	7215
Engine cranks but will not start	1.0	1.0	7225
Engine cranks but will not start	1.0	1.0	7226
Engine cranks but will not start	1.1	1.1	7227
Engine cranks but will not start	1.1	1.1	7228
Engine cranks but will not start	1.2	1.2	7230
Engine cranks but will not start	0.8	0.8	7231
Engine cranks but will not start	0.9	0.9	7235
Engine cranks but will not start	1.2	1.2	7240
Engine cranks but will not start	1.0	1.0	7242
Engine cranks but will not start	1.0	1.0	7245
* Engine cranks but will not start	1.0	1.1	7250
Engine cranks but will not start	3.4	3.4	7255
Engine cranks but will not start	1.3	1.3	7260
Engine cranks but will not start	1.2	1.2	7265

*Includes timer cover/gearcase cover disassembly

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
FUEL INJECTION SYSTEM (Cont'd)			
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
No ECM power	0.3	0.3	7270
No ECM power	0.4	0.4	7275
No ECM power	0.4	0.4	7280
No ECM power	0.6	0.6	7285
No ECM power	0.6	0.6	7290
No ECM power	0.7	0.7	7295
No ECM power	0.2	0.2	7305
No ECM power	0.4	0.4	7310
No ECM power	0.4	0.4	7315
No ECM power	0.5	0.5	7320
No ECM power	0.3	0.3	7325
No ECM power	0.5	0.5	7330
No ECM power	0.5	0.5	7331
Fuel system electrical test.....	0.4	0.4	7335
Fuel system electrical test.....	0.6	0.6	7336
Fuel system electrical test.....	0.6	0.6	7340
Fuel system electrical test.....	0.4	0.4	7345
Fuel system electrical test.....	0.7	0.7	7350
Fuel system electrical test.....	0.4	0.4	7355
Fuel system electrical test.....	1.0	1.0	7360
Fuel system electrical test.....	0.4	0.4	7365
Fuel system electrical test.....	0.7	0.7	7370
Fuel system electrical test.....	0.4	0.4	7375
Fuel system electrical test.....	0.4	0.4	7380
Fuel system electrical test.....	0.2	0.2	7385
Fuel system electrical test.....	1.0	1.0	7390
Fuel system electrical test.....	1.0	1.0	7395
Fuel system electrical test.....	1.8	1.8	7405
Fuel system electrical test.....	1.2	1.2	7410
Fuel system electrical test.....	1.2	1.2	7415
Fuel system electrical test.....	0.3	0.3	7420
Fuel system electrical test.....	0.4	0.4	7425
Fuel system electrical test.....	0.3	0.3	7430
Fuel system electrical test.....	0.4	0.4	7435
Fuel system electrical test.....	0.4	0.4	7440
Fuel system electrical test.....	0.3	0.3	7445
Fuel system electrical test.....	0.3	0.3	7450

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
FUEL INJECTION SYSTEM (Cont'd)			
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Fuel pressure test.....	0.2	0.2	7455
Fuel pressure test.....	1.2	1.2	7460
Fuel pressure test.....	0.6	0.6	7465
Fuel pressure test.....	0.6	0.6	7470
Fuel pressure test.....	0.6	0.6	7475
Fuel pressure test.....	1.6	1.6	7480
Idle speed control	0.2	0.2	7485
Idle speed control	0.3	0.3	7490
Idle speed control	0.5	0.5	7495
Idle speed control	0.5	0.5	7505
Idle speed control	0.5	0.5	7510
Idle speed control	0.6	0.6	7515
Idle speed control	0.4	0.4	7516
Misfire at idle or under load.....	0.1	0.1	7520
Misfire at idle or under load.....	0.2	0.2	7525
Misfire at idle or under load.....	0.3	0.3	7530
Misfire at idle or under load.....	1.0	1.0	7535
Misfire at idle or under load.....	0.6	0.6	7540
Misfire at idle or under load.....	0.7	0.7	7545
Misfire at idle or under load.....	0.9	0.9	7550
Throttle position sensor.....	0.2	0.2	7555
Throttle position sensor.....	0.5	0.5	7560
Throttle position sensor.....	3.4	3.4	7565
Throttle position sensor.....	1.8	1.8	7570
Throttle position sensor.....	0.4	0.4	7575
Throttle position sensor.....	0.4	0.4	7580
Throttle position sensor.....	0.4	0.4	7585
Throttle position sensor.....	1.8	1.8	7590
Throttle position sensor.....	1.8	1.8	7595
Throttle position sensor.....	0.4	0.4	7605
Throttle position sensor.....	0.4	0.4	7610
Throttle position sensor.....	0.4	0.4	7615
Barometric pressure sensor.....	0.5	0.5	7620
Barometric pressure sensor.....	1.3	1.3	7625
Barometric pressure sensor.....	0.8	0.8	7630
Barometric pressure sensor.....	0.4	0.4	7635
Barometric pressure sensor.....	0.5	0.5	7640
Barometric pressure sensor.....	0.5	0.5	7645
Barometric pressure sensor.....	0.4	0.4	7650
Barometric pressure sensor.....	0.5	0.5	7655
Barometric pressure sensor.....	1.0	1.0	7946

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
FUEL INJECTION SYSTEM (Cont'd)			
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Engine temperature sensor	0.4	0.4	7660
Engine temperature sensor	1.4	1.4	7665
Engine temperature sensor	0.8	0.8	7670
Engine temperature sensor	0.5	0.5	7675
Engine temperature sensor	0.5	0.5	7680
Engine temperature sensor	0.5	0.5	7685
Engine temperature sensor	0.5	0.5	7690
Engine temperature sensor	0.4	0.4	7695
Engine temperature sensor	0.7	0.7	7705
Engine temperature sensor	0.5	0.5	7710
Intake air temperature sensor.....	0.6	0.6	7715
Intake air temperature sensor.....	3.9	3.9	7720
Intake air temperature sensor.....	2.1	2.1	7725
Intake air temperature sensor.....	0.6	0.6	7730
Intake air temperature sensor.....	0.4	0.4	7735
Intake air temperature sensor.....	0.4	0.4	7740
Intake air temperature sensor.....	0.6	0.6	7745
Intake air temperature sensor.....	0.5	0.5	7750
Intake air temperature sensor.....	0.6	0.6	7755
Intake air temperature sensor.....	2.1	2.1	7760
Battery voltage test**	0.7	0.7	7765
Battery voltage test**	0.8	0.8	7770
Battery voltage test**	0.8	0.8	7775
Battery voltage test**	1.1	1.1	7780
Fuel injectors	0.2	0.2	7785
Fuel injectors	0.3	0.3	7790
Fuel injectors	1.3	1.3	7795
Fuel injectors	0.5	0.5	7805
Fuel injectors	0.7	0.7	7810
Fuel injectors	0.4	0.4	7815
Fuel injectors	0.5	0.5	7820
Fuel injectors	0.5	0.5	7825
Fuel injectors	0.5	0.5	7830
Fuel injectors	0.5	0.5	7835
Fuel injectors	0.6	0.6	7840
Fuel injectors	0.4	0.4	7845
Fuel injectors	0.4	0.4	7850

**Includes charging diagnostics

POLICE MODELS – FLHTP-I, FLHP-I Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FMW	FHW/FTW	
FUEL INJECTION SYSTEM (Cont'd)			
NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.			
Ignition coil test.....	0.3	0.3	7855
Ignition coil test.....	0.8	0.8	7856
Ignition coil test.....	0.4	0.4	7860
Ignition coil test.....	0.5	0.5	7865
Ignition coil test.....	0.3	0.3	7870
Ignition coil test.....	0.4	0.4	7875
Ignition coil test.....	0.2	0.2	7880
Fuel pump relay.....	0.4	0.4	7885
Fuel pump relay.....	0.7	0.7	7890
Fuel pump relay.....	0.5	0.5	7895
Fuel pump relay.....	0.2	0.2	7905
Fuel pump relay.....	0.4	0.4	7910
Tachometer	0.5	0.4	7881
Tachometer	0.5	0.4	7882
Tachometer	0.5	0.4	7883
Tachometer	0.5	0.4	7884
Tachometer	0.6	0.5	7886
Crank position sensor	0.4	0.4	7980
Crank position sensor	1.0	1.0	7981
Crank position sensor	0.5	0.5	7982
Crank position sensor	1.2	1.2	7983
Crank position sensor	1.1	1.1	7984
Crank position sensor	1.2	1.2	7985
Crank position sensor	0.6	0.6	7986
Crank position sensor	0.6	0.6	7987
Crank position sensor	0.3	0.3	7988
Cam position sensor	1.9	1.9	7941
Cam position sensor	0.4	0.4	7942
Cam position sensor	0.4	0.4	7943
Cam position sensor	0.4	0.4	7944
Cam position sensor	1.0	1.0	7946
Cam position sensor	0.3	0.3	7947
Cam position sensor	0.4	0.4	7948
Cam position sensor	1.2	1.2	7969
Bank angle sensor	0.2	0.2	7971
Bank angle sensor	0.3	0.3	7972
Bank angle sensor	0.4	0.4	7973
Bank angle sensor	0.3	0.3	7974
Bank angle sensor	0.4	0.4	7975
Bank angle sensor	0.2	0.2	7976
ECM failure.....	0.2	0.2	7913

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
SERVICE					
New					
Set-up and pre-delivery	2.1	2.1	2.1	2.1	---
1,000 mile service	2.0	2.0	2.0	2.0	---
Regular					
2,500 mile maintenance.....	0.5	0.5	0.5	0.5	---
5,000 mile maintenance.....	2.0	2.0	2.0	2.0	---
7,500 mile maintenance.....	0.5	0.5	0.5	0.5	---
10,000 mile maintenance.....	5.0	5.0	5.0	5.0	---
CHASSIS					
Drive					
Adjust secondary belt.....	0.2	0.2	0.2	0.2	---
Replace secondary belt	2.1	2.1	2.1	2.1	2011
Replace rear wheel sprocket.....	0.8	0.8	0.8	0.8	2021
Wheels					
Replace tire – includes balancing					
front.....	0.6	0.6	0.6	0.6	2106
rear.....	0.6	0.6	0.6	0.6	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing					
front.....	0.8	0.8	0.8	0.8	2113
rear	0.9	0.9	0.9	0.9	2114
Replace rim, hub or spokes					
front (N/A on GLV, GJV only).....	2.3	2.3	2.3	2.2	2116
rear (N/A on GLV, GJV only).....	2.3	2.3	2.3	2.3	2121
Replace wheel bearings					
front.....	0.5	0.5	0.5	0.5	2136
rear.....	0.6	0.6	0.6	0.6	2141
True spoked wheel (N/A on GLV, GJV only)	0.4	0.4	0.4	0.4	2156

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
	JOB DESCRIPTION	GHV	GDV	GLV, GJV		GEV
CHASSIS (Cont'd)					
Handlebars					
Replace handlebars	0.5	0.5	0.5	0.5	2206
Replace clutch hand lever	0.2	0.2	0.2	0.2	2221
Replace clutch hand lever bracket	0.2	0.2	0.2	0.2	2226
Replace throttle control	0.4	0.4	0.4	0.4	2231
Replace and adjust throttle control cables one or both	0.6	0.6	0.6	0.6	2241
Replace both rubber handlebar mounts	0.5	0.5	0.5	0.5	2246
Replace rubber handlebar grip	0.2	0.2	0.2	0.2	2251
Replace handlebar riser one or both.....	0.4	0.4	0.4	0.4	2253
Replace handlebar clamp one or both	0.1	0.1	0.1	0.1	2254
Frame/Swing Arm/Front Fork					
Replace frame – includes removal and installation of all accessories and motorcycle components	10.0	10.0	10.0	10.0	2306
Replace foot pegs	0.1	0.1	0.1	0.1	2307
Replace foot peg mounts (to frame)	0.2	0.2	0.2	0.2	2308
Replace front fork assembly.....	2.2	2.2	2.2	2.3	2311
Replace lower fork bracket and stem.....	2.3	2.3	2.4	2.4	2316
Replace steering head cups and bearings, including bearing adjustment.....	2.1	2.1	2.2	2.1	2321
Replace upper fork bracket.....	0.7	0.7	1.0	0.7	2326
Replace fork lock.....	0.8	0.8	1.0	0.8	2330
Adjust steering head bearings	0.4	0.4	0.4	0.4	---
Change front fork oil.....	0.5	0.5	0.5	0.5	---
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation one side	0.7	0.7	0.7	0.7	2341
both sides	1.1	1.1	1.1	1.1	2342
Replace fork side one side	0.5	0.5	0.5	0.5	2346
both sides	0.8	0.8	0.8	0.8	2351
Replace fork tube one side	0.6	0.6	0.6	0.6	2356
both sides	0.9	0.9	0.9	0.9	2361
Replace rear swing arm and/or bushings	2.0	2.0	2.0	2.0	2366
Replace rear fork pivot shaft	1.0	1.0	1.0	1.0	2368
Replace rear shock absorber assembly one side	0.2	0.2	0.2	0.2	2371
both sides	0.4	0.4	0.4	0.4	2376

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
	JOB DESCRIPTION	GHV	GDV	GLV, GJV		GEV
CHASSIS (Cont'd)					
Frame/Swing Arm/Front Fork (Cont'd)					
Replace rear shock absorber component(s)					
one side	0.3	0.3	0.3	0.3	2381
both sides	0.6	0.6	0.6	0.6	2386
Replace jiffy stand					
spring and/or stand	0.3	0.3	0.3	0.3	2396
rubber bumper	0.1	0.1	0.1	0.1	2399
Replace motor rubber mount					
rear	0.5	0.5	0.5	0.5	2395
front.....	0.2	0.2	0.2	0.2	2398
Brakes					
Replace hydraulic brake line – includes filling/bleeding brakes					
front.....	0.4	0.4	0.4	0.4	2406
rear	0.4	0.4	0.4	0.4	2411
Replace rear master cylinder reservoir hose and/or master cylinder fitting	0.4	0.4	0.4	0.4	2414
Replace brake pads					
front – each caliper	0.1	0.1	0.1	0.1	2416
rear.....	0.2	0.2	0.2	0.2	2421
Replace brake caliper – includes filling/bleeding brakes					
front	0.4	0.4	0.4	0.4	2426
rear.....	0.6	0.6	0.6	0.6	2431
Replace brake disc					
front – one side	0.3	0.3	0.3	0.3	2436
– both sides	---	---	0.4	---	2437
rear.....	0.8	0.8	0.8	0.8	2441
Bleed brake caliper – one or two front calipers or rear caliper	0.2	0.2	0.2	0.2	2446
Overhaul brake caliper – includes filling/bleeding brakes					
front – each caliper	0.6	0.6	0.6	0.6	2451
rear.....	0.8	0.8	0.8	0.8	2456
Replace master cylinder assembly – includes filling/bleeding brakes					
front.....	0.4	0.4	0.4	0.4	2461
rear.....	0.5	0.5	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes					
front.....	0.6	0.6	0.6	0.6	2471
rear.....	0.7	0.7	0.7	0.7	2476
Replace rear brake pedal.....	0.3	0.3	0.3	0.1	2492
Replace front brake lever	0.1	0.1	0.1	0.1	2494

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
CHASSIS (Cont'd)					
Seats/Fenders/Tanks					
Replace seat					
front.....	0.1	0.1	0.1	0.1	2506
Replace fender					
front.....	0.3	0.3	0.3	0.3	2526
rear.....	0.9	0.9	0.9	0.8	2531
Replace rear fender chrome support cover – one only	0.4	0.3	0.4	0.3	2536
Replace fuel tank assembly.....	0.8	0.8	0.8	0.8	2541
Replace fuel tank valve.....	0.2	0.2	0.2	0.2	2561
Replace fuel tank gauge and/or console.....	0.2	0.1	0.2	0.3	2563
Replace fuel tank gauge sending unit.....	0.4	0.3	0.4	0.3	2564
Replace any hose.....	0.3	0.3	0.3	0.3	2576
Replace oil filter.....	0.1	0.1	0.1	0.1	2582
Replace oil filter bracket.....	0.2	0.2	0.2	0.2	2584
Replace license plate holder.....	0.2	0.2	0.2	0.2	2590
Belt Guards					
Replace debris deflector.....	0.2	0.2	0.2	0.2	2616
Replace belt guard.....	0.2	0.2	0.2	0.2	2620
Exhaust System					
Replace complete exhaust system and/or gaskets.....	0.6	0.6	0.6	0.6	2626
Replace exhaust pipe					
front.....	0.3	0.3	0.3	0.3	2631
rear.....	0.3	0.3	0.3	0.3	2636
Replace any muffler.....	0.2	0.2	0.2	0.2	2646
Replace any exhaust shield.....	0.1	0.1	0.1	0.1	2661
Replace muffler support.....	0.2	0.2	0.2	0.2	2666
ENGINE					
General					
Remove and install engine – California vehicles only.....	4.1	4.1	4.1	4.1	3006
Remove and install engine.....	4.0	4.0	4.0	4.0	3006
Replace and adjust stabilizer – top.....	0.7	0.7	0.7	0.7	3005
Remove and replace oil pan for inspection/contamination	0.7	0.7	0.7	0.7	3009

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
ENGINE (Cont'd)					
Cylinder Head					
Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.					
front head.....	3.5	3.5	3.5	3.5	3101
rear head	3.5	3.5	3.5	3.5	3103
both heads	4.1	4.1	4.1	4.1	3104
Replace cylinder head					
one head.....	2.2	2.2	2.2	2.2	3106
both heads	2.8	2.8	2.8	2.8	3108
Replace valve seal or spring after cylinder head removal					
one seal or spring (intake or exhaust)	0.1	0.1	0.1	0.1	3131
both seals or springs (intake or exhaust)	0.2	0.2	0.2	0.2	3132
Replace cylinder head gasket/o-ring					
front cylinder	1.6	1.6	1.6	1.6	3140
rear cylinder	1.6	1.6	1.6	1.6	3142
both cylinders.....	2.0	2.0	2.0	2.0	3143
Replace rocker arm covers and/or gaskets					
front cylinder	0.7	0.7	0.7	0.7	3144
rear cylinder	0.7	0.7	0.7	0.7	3145
both cylinders.....	0.8	0.8	0.8	0.8	3148
Recondition rocker arms after heads are removed					
one head.....	0.7	0.7	0.7	0.7	3149
both heads	1.4	1.4	1.4	1.4	3150
Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support					
front cylinder	1.1	1.1	1.1	1.1	3147
rear cylinder	1.1	1.1	1.1	1.1	3152
both cylinders.....	1.3	1.3	1.3	1.3	3153
Replace cylinder o-ring/drain o-ring					
one cylinder	1.8	1.8	1.8	1.8	3161
rear cylinder	1.8	1.8	1.8	1.8	3163
both cylinders.....	2.2	2.2	2.2	2.2	3168
Replace crankcase umbrella valve					
one	1.0	1.0	1.0	1.0	3172
both.....	1.1	1.1	1.1	1.1	3174
Cylinder and Piston					
Recondition TOP END - includes disassembly, replacement of piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.					
one piston and cylinder.....	4.5	4.5	4.5	4.5	3202
both pistons and cylinders	5.1	5.1	5.1	5.1	3203
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.					
one piston and cylinder.....	4.9	4.9	4.9	4.9	3211
both pistons and cylinders	5.5	5.5	5.5	5.5	3212

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
	JOB DESCRIPTION	GHV	GDV	GLV, GJV		GEV
ENGINE (Cont'd)					
Cylinder and Piston (Cont'd)					
Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.					
one piston and cylinder.....	4.3	4.3	4.3	4.3	3207
both pistons and cylinders	4.9	4.9	4.9	4.9	3208
Replace piston rings – includes deglazing cylinder					
one cylinder	2.1	2.1	2.1	2.1	3206
both cylinders.....	2.7	2.7	2.7	2.7	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly					
one cylinder	2.7	2.7	2.7	2.7	3221
both cylinders.....	3.9	3.9	3.9	3.9	3231
Replace cylinder and piston					
one cylinder	2.0	2.0	2.0	2.0	3236
both cylinders.....	2.5	2.5	2.5	2.5	3246
Replace upper connecting rod bushing during upper end repair					
Replace one cylinder stud – cylinder removed	0.4	0.4	0.4	0.4	3251
Replace one cylinder stud – cylinder removed	0.1	0.1	0.1	0.1	3253
Replace all eight cylinder studs – cylinders removed.....	0.5	0.5	0.5	0.5	3254
Cam Cover					
Replace lifter cover/gasket or lifter/and, or anti-rotation pin					
one	1.3	1.3	1.3	1.3	3307
both.....	1.5	1.5	1.5	1.5	3310
Replace push rod, push rod cover and/or O-ring or quad seal					
one or two same cylinder.....	1.3	1.3	1.3	1.3	3317
one each cylinder	1.5	1.5	1.5	1.5	3318
Replace cam cover and/or gasket.....	0.9	0.9	0.9	0.9	3325
Replace primary cam chain, sprockets and/or fastener....	1.0	1.0	1.0	1.0	3327
Replace primary cam chain tensioner	1.0	1.0	1.0	1.0	3328
Replace cam support plate O-rings	2.1	2.1	2.1	2.1	3335
Replace cam support plate	2.1	2.1	2.1	2.1	3337
Replace cam support bearing/cams/secondary cam chain/tensioner					
Replace oil pump and/or O-rings	2.3	2.3	2.3	2.3	3338
Replace oil pump and/or O-rings	1.9	1.9	1.9	1.9	3341
Replace cam bearing crankcase					
one bearing.....	2.1	2.1	2.1	2.1	3342
two bearings	2.2	2.2	2.2	2.2	3343
By pass valve inspection.....	2.0	2.0	2.0	2.0	3354

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
	JOB DESCRIPTION	GHV	GDV	GLV, GJV		GEV
ENGINE (Cont'd)					
Crankcase					
Replace crankcases – California vehicles only – includes remove and install engine	7.2	7.2	7.2	7.2	3406
Replace crankcases – includes remove and install engine	7.1	7.1	7.1	7.1	3406
Seal crankcase only	6.5	6.5	6.5	6.5	3407
Replace flywheels – includes remove and install engine..	6.6	6.6	6.6	6.6	3411
Replace right side main bearing – California vehicles only	6.1	6.1	6.1	6.1	3412
Replace right side main bearing	6.0	6.0	6.0	6.0	3412
Piston jet/O-ring					
one	2.0	2.0	2.0	2.0	3413
both	2.4	2.4	2.4	2.4	3414
Filter housing and or O-rings	0.2	0.2	0.2	0.2	3415
Check flywheel trueness before assembly or after removal.	0.1	0.1	0.1	0.1	3420
True flywheels after removal – includes piston removal and reinstallation	0.5	0.5	0.5	0.5	3421
Recondition cylinder heads – head removed (for non-related repairs)					
one head	1.0	1.0	1.0	1.0	3425
both heads	2.0	2.0	2.0	2.0	3426
Replace piston rings – cylinders removed (for non-related repairs – deglaze only)	0.3	0.3	0.3	0.3	3428
Replace pistons – cylinders removed (for non-related repairs) – includes resizing cylinders	1.4	1.4	1.4	1.4	3430
Fuel System					
Replace air cleaner backing plate	0.1	0.1	0.1	0.1	3501
Replace air cleaner cover	0.1	0.1	0.1	0.1	3502
Replace carburetor	0.4	0.4	0.4	0.4	3506
Replace intake manifold and/or gasket					
one or both	0.6	0.6	0.6	0.6	3511
Replace carburetor float valve or jet, or check float level or seal	0.5	0.5	0.5	0.5	3516
Replace accelerator pump	0.5	0.5	0.5	0.5	3521
Replace enrichener cable	0.4	0.4	0.4	0.4	3523
Replace carburetor diaphragm	0.5	0.5	0.5	0.5	3524
Evaporative Emissions System					
Replace canister	0.1	0.1	0.1	0.1	3527
Replace vapor valve	0.1	0.1	0.1	0.1	3528
Replace any one hose	0.1	0.1	0.1	0.1	3529

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
<i>DRIVE/CLUTCH</i>					
Drive					
Adjust primary chain	0.2	0.2	0.2	0.2	---
Replace primary chain	0.9	0.9	0.9	0.9	4002
Replace engine sprocket.....	0.9	0.9	0.9	0.9	4003
Replace engine sprocket seal.....	1.3	1.3	1.3	1.3	4005
Replace primary cover	0.4	0.4	0.4	0.4	4007
Replace primary cover gasket	0.4	0.4	0.4	0.4	4009
Replace primary inspection cover and/or O-ring	0.1	0.1	0.1	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.1	2.1	2.1	2.1	4008
Replace shift lever sleeve and/or O-Ring.....	0.4	0.4	0.4	—	4010
Clutch					
Adjust clutch.....	0.2	0.2	0.2	0.2	---
Replace release cable assembly	0.8	0.8	0.8	0.8	4006
Service the clutch – includes disassembly, cleaning, inspection repair, assembly and adjustment.....	1.3	1.3	1.3	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	0.4	0.4	0.4	4016
Replace clutch release mechanism (ball ramp) and/or side cover.....	0.6	0.6	0.6	0.6	4018
<i>TRANSMISSION</i>					
Transmission Case					
Replace transmission case	5.3	5.3	5.3	5.3	4304
Replace transmission complete	4.9	4.9	4.9	4.9	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts, assembly (transmission case in frame).....	4.6	4.6	4.6	4.6	4306
Replace transmission sprocket	2.2	2.2	2.2	2.2	4309
Replace main drive gear oil seal (in transmission case) ...	2.3	2.3	2.3	2.3	4311
Replace mainshaft oil seal (in main drive gear).....	2.2	2.2	2.2	2.2	4316
Replace side door gasket	2.8	2.8	2.8	2.8	4321
Replace shifter drum – includes removal, adjusting cam spacing and end play, and installation	1.4	1.4	1.4	1.4	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement	3.0	3.0	3.0	3.0	4336
Replace transmission top cover and/or gasket – includes battery tray removal.....	1.2	1.2	1.2	1.2	4341
Replace shifter forks and/or shaft – includes checking gear engagement.....	0.9	0.9	0.9	0.9	4343
Replace side door bearing					
one	3.0	3.0	3.0	3.0	4348
both.....	3.1	3.1	3.1	3.1	4351
Replace transmission case countershaft bearing	2.9	2.9	2.9	2.9	4361
Replace main drive gear and/or bearing.....	3.2	3.2	3.2	3.2	4366
Replace side cover gasket.....	0.2	0.2	0.2	0.2	4368
Remove oil pan and/or gasket and/or baffle	0.6	0.6	0.6	0.6	4378
Replace oil fill tube and/or cover and/or gasket.....	0.3	0.3	0.3	0.3	4379
Perform shifter pawl adjustment.....	0.1	0.1	0.1	0.1	4381
Replace transmission shift shaft seal.....	2.2	2.2	2.2	2.2	4390

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
<p>ELECTRICAL</p> <p><i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the DYNA Service Manual, Part No. 99481-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i></p> <p>General</p> <p>Lights and accessories - excluding turn signals 0.3</p> <p>Charging circuit:</p> <p> diagnose charging system – regulator inspection 0.1</p> <p> diagnose charging system – regulator bleed..... 0.5</p> <p> diagnose charging system – milliamp draw..... 0.2</p> <p> diagnose charging system – total current draw..... 0.2</p> <p> diagnose charging system – open/grounded stator 1.2</p> <p> diagnose charging system – AC output..... 1.2</p> <p> diagnose charging system – regulator failure 0.7</p> <p> diagnose charging system – voltage output 0.7</p> <p> diagnose charging system – replace rotor 1.1</p> <p>Starter circuit:</p> <p> Starter inoperative – open/shorted/ground motor..... 1.0</p> <p> Starter inoperative – start button..... 1.0</p> <p> Starter inoperative – solenoid clicks; poor starter or battery connections 0.2</p> <p> Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts 0.3</p> <p> Starter inoperative – solenoid clicks; poor starter or battery connections, ground connections, or bad solenoid contacts..... 0.2</p> <p> Starter inoperative – damaged motor..... 0.9</p> <p> Starter inoperative – relay clicks; open in relay wiring... 0.2</p>					

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
ELECTRICAL (Cont'd)					
General - cont'd					
Starter circuit - cont'd					
Starter inoperative – nothing clicks; poor relay ground .	0.2	0.2	0.2	0.2	5828
Starter inoperative – nothing clicks; short to voltage.....	0.3	0.3	0.3	0.3	5830
Starter inoperative – nothing clicks; open in wiring to or from starter button.....	0.5	0.5	0.5	0.5	5831
Starter inoperative – starter relay	0.4	0.4	0.4	0.4	5832
Slow starter crank or starter stalls; poor starter to battery connections, ground connections	0.2	0.2	0.2	0.2	5835
Slow starter crank or starter stalls – binding.....	0.3	0.3	0.3	0.3	5836
Starter spins – clutch.....	1.0	1.0	1.0	1.0	5837
Starter inoperative – nothing clicks; TSM / TSSM	0.3	0.3	0.3	0.3	5838
Replace starter solenoid – contacts includes starter motor removal	1.1	1.1	1.1	1.1	5845
Starter binding	1.1	1.1	1.1	1.1	5850
Replace starter solenoid – coil includes starter motor removal.....	1.2	1.2	1.2	1.2	5860
Instruments					
Replace speedometer – cosmetics only	0.1	0.1	0.2	0.1	6003
Replace tachometer.....	---	0.1	0.2	---	6009
Replace instrument housing assembly (tach./speedo)	0.2	0.2	0.3	0.2	6019
Electronic speedometer:					
Diagnose inoperative, inaccurate or erratic speedometer – switch.....	0.3	0.3	0.4	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer.....	0.1	0.1	0.2	0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer – wiring.....	0.3	0.3	0.3	0.3	6004
Diagnose inoperative, inaccurate or erratic speedometer – replace	0.6	0.6	0.7	0.6	6006
Diagnose inoperative, inaccurate or erratic speedometer – wiring.....	0.7	0.7	0.7	0.7	6008
Diagnose inoperative, inaccurate or erratic speedometer – sensor	0.4	0.4	0.4	0.4	6010
Diagnose inoperative, inaccurate or erratic speedometer – open	0.7	0.7	0.7	0.7	6013
Diagnose inoperative, inaccurate or erratic speedometer – LED failure	0.2	0.2	0.3	0.2	6014
Diagnose inoperative, inaccurate or erratic speedometer – wires	0.5	0.5	0.5	0.5	6016
Diagnose inoperative, inaccurate or erratic odometer – inoperable.....	0.1	0.1	0.2	0.1	6020
Diagnose inoperative, inaccurate or erratic speedometer – internal.....	0.6	0.6	0.7	0.6	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground.....	0.6	0.6	0.7	0.6	6024
Diagnose inoperative, inaccurate or erratic speedometer – debris on sensor.....	0.6	0.6	0.7	0.6	6029
Wiring					
Replace connector housing	0.1	0.1	0.1	0.1	5022
Replace connector anchor	0.1	0.1	0.1	0.1	5023
Replace main wiring harness.....	2.3	2.3	2.3	2.4	5026
Replace any single wire					
light circuit.....	0.2	0.2	0.2	0.2	5039
Replace speedometer wiring harness	0.8	0.8	0.9	---	5046
Replace indicator lamp wiring (includes diagnosis).....	0.3	0.3	0.3	0.3	5048

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
	JOB DESCRIPTION	GHV	GDV	GLV, GJV		GEV
ELECTRICAL (Cont'd)					
Switches					
Replace ignition switch.....	0.3	0.3	0.3	0.2	5129
Replace left upper handlebar switch.....	0.5	0.5	0.5	0.5	5171
Replace right upper handlebar switch.....	0.7	0.7	0.7	0.7	5173
Replace front brake light switch.....	0.6	0.6	0.6	0.6	5176
Replace left upper handlebar switch housing.....	0.2	0.2	0.2	0.2	5177
Replace left lower handlebar switch housing.....	0.2	0.2	0.2	0.2	5178
Replace right upper handlebar switch housing.....	0.2	0.2	0.2	0.2	5179
Replace right lower handlebar switch housing.....	0.4	0.4	0.4	0.4	5180
Replace rear stoplight switch.....	0.4	0.2	0.4	0.2	5141
Replace circuit breaker.....	0.2	0.2	0.2	0.2	5145
Replace circuit breaker block.....	0.4	0.4	0.4	0.4	5148
Replace transmission neutral switch – includes diagnosis.....	0.3	0.3	0.3	0.3	5157
Replace oil pressure switch – includes diagnosis.....	0.3	0.3	0.3	0.3	5161
Lights					
Replace headlight bracket – includes adjustment.....	0.3	0.2	0.3	0.2	5181
Replace headlight – includes diagnosis.....	0.1	0.1	0.1	0.1	5185
Replace headlight housing – includes adjustment.....	0.4	0.4	0.5	0.4	5189
Replace indicator bulb or lens – includes diagnosis.....	0.1	0.1	0.1	0.1	5190
Replace indicator lamp socket assembly – includes diagnosis.....	1.5	1.5	1.6	0.2	5191
Replace taillight light bulb or lens – includes diagnosis.....	0.1	0.1	0.1	0.1	5197
Replace taillight assembly or circuit board.....	0.2	0.2	0.2	0.2	5215
Replace turn signal light assembly					
front.....	0.7	0.7	0.7	0.7	5201
rear.....	0.3	0.3	0.3	0.3	5205
Turn Signals/Security System					
No security lamp.....	0.3	0.3	0.3	0.3	6735
No security lamp.....	0.3	0.3	0.3	0.3	6736
No security lamp.....	0.3	0.3	0.3	0.3	6737
No security lamp.....	0.4	0.4	0.4	0.4	6738
No security lamp.....	0.1	0.1	0.1	0.1	6739
No security lamp.....	0.3	0.3	0.3	0.3	6740
No security lamp.....	0.4	0.4	0.4	0.4	6741
No security lamp.....	0.2	0.2	0.2	0.2	6742
No security lamp.....	0.3	0.3	0.3	0.3	6743
No security lamp.....	0.2	0.2	0.2	0.2	6744
No security lamp.....	0.3	0.3	0.3	0.3	6745
Security lamp on continuously.....	0.2	0.2	0.2	0.2	6750
Security lamp on continuously.....	0.2	0.2	0.2	0.2	6751
Security lamp on continuously.....	0.3	0.3	0.3	0.3	6752
Fob signal weak.....	0.1	0.1	0.1	0.1	6755
Fob signal weak.....	0.1	0.1	0.1	0.1	6756
Fob signal weak.....	0.2	0.2	0.2	0.2	6757
Turn signal error 2A.....	0.9	0.9	0.9	0.9	6773
Turn signal error 2B.....	0.6	0.6	0.6	0.6	6777
Turn signal error 2B.....	0.5	0.5	0.5	0.5	6778
Turn signal error 2B.....	0.7	0.7	0.7	0.7	6779
Turn signal error 2B.....	0.6	0.6	0.6	0.6	6780

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
<i>ELECTRICAL (Cont'd)</i>					
Turn Signals/Security System (Cont'd)					
Turn signal error 2C.....	0.7	0.7	0.7	0.7	6784
Turn signal error 2C.....	0.7	0.7	0.7	0.7	6785
Turn signal error 2C.....	1.2	1.2	1.2	1.2	6786
Turn signal error 3A.....	0.3	0.3	0.3	0.3	6790
Turn signal error 3A.....	0.2	0.2	0.2	0.2	6791
Turn signal error 3A.....	0.1	0.1	0.1	0.1	6792
Turn signal error 3A.....	0.3	0.3	0.3	0.3	6793
Turn signal error 3B.....	0.1	0.1	0.1	0.1	6796
Turn signal error 3B.....	0.3	0.3	0.3	0.3	6797
Turn signal error 3B.....	0.3	0.3	0.3	0.3	6798
Turn signal error 3B.....	0.3	0.3	0.3	0.3	6799
Turn signal error 3B.....	0.3	0.3	0.3	0.3	6800
Turn signal error 3C.....	0.3	0.3	0.3	0.3	6805
Turn signal error 3C.....	0.3	0.3	0.3	0.3	6806
Turn signal error 3C.....	0.2	0.2	0.2	0.2	6807
Turn signal error 3C.....	0.3	0.3	0.3	0.3	6808
Turn signal error 3D.....	0.6	0.6	0.6	0.6	6810
Turn signal error 3D.....	0.7	0.7	0.7	0.7	6811
Turn signal error 3D.....	0.6	0.6	0.6	0.6	6812
Turn signal error 3D.....	0.6	0.6	0.6	0.6	6813
Turn signal error 3D.....	0.5	0.5	0.5	0.5	6814
Turn signal error 3D.....	0.7	0.7	0.7	0.7	6815
Turn signal error 3D.....	0.6	0.6	0.6	0.6	6816
Turn signal error 4A.....	0.2	0.2	0.2	0.2	6820
Turn signal error 4A.....	0.3	0.3	0.3	0.3	6821
Turn signal error 4A.....	0.5	0.5	0.5	0.5	6822
Turn signal error 4A.....	0.3	0.3	0.3	0.3	6823
Turn signal error 4A.....	0.6	0.6	0.6	0.6	6824
Ignition enable output high.....	0.3	0.3	0.3	0.3	6827
Ignition enable output high.....	0.3	0.3	0.3	0.3	6828
Alarm output.....	0.3	0.3	0.3	0.3	6830
Alarm output.....	0.3	0.3	0.3	0.3	6831
Alarm output.....	0.3	0.3	0.3	0.3	6832
Alarm output.....	0.4	0.4	0.4	0.4	6833
Alarm output.....	0.3	0.3	0.3	0.3	6834
Alarm output.....	0.3	0.3	0.3	0.3	6835
Starter output high.....	0.3	0.3	0.3	0.3	6840
Starter output high.....	0.2	0.2	0.2	0.2	6841
Starter output high.....	0.3	0.3	0.3	0.3	6842
Accelerometer fault.....	0.2	0.2	0.2	0.2	6845

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
	JOB DESCRIPTION	GHV	GDV	GLV, GJV		GEV
ELECTRICAL (Cont'd)					
Ignition System					
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the DYNA Service Manual, Part No. 99481-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>					
Diagnostic check	0.2	0.2	0.2	0.2	7110
Diagnostic check	0.3	0.3	0.3	0.3	7115
Diagnostic check	0.6	0.6	0.6	0.6	7120
Diagnostic check	0.5	0.5	0.5	0.5	7125
Chart A-1:					
No check engine lamp	0.5	0.5	0.5	0.5	7130
No check engine lamp	0.5	0.5	0.5	0.5	7135
No check engine lamp	0.5	0.5	0.5	0.5	7143
No check engine lamp	0.5	0.5	0.5	0.5	7145
No check engine lamp	0.5	0.5	0.5	0.5	7146
Chart A-2:					
Check engine lamp on continuously	0.5	0.5	0.5	0.5	7148
Check engine lamp on continuously	0.3	0.3	0.3	0.3	7150
Check engine lamp on continuously	0.5	0.5	0.5	0.5	7155
Check engine lamp on continuously	0.5	0.5	0.5	0.5	7160
Check engine lamp on continuously	0.5	0.5	0.5	0.5	7165
Chart A-3:					
Engine cranks but will not start	0.2	0.2	0.2	0.2	7180
Engine cranks but will not start	0.3	0.3	0.3	0.3	7185
Engine cranks but will not start	0.5	0.5	0.5	0.5	7210
Engine cranks but will not start	0.5	0.5	0.5	0.5	7215
Engine cranks but will not start	0.5	0.5	0.5	0.5	7225
Engine cranks but will not start	0.3	0.3	0.3	0.3	7226
Engine cranks but will not start	0.3	0.3	0.3	0.3	7227
Engine cranks but will not start	0.3	0.3	0.3	0.3	7228
Engine cranks but will not start	1.1	1.1	1.1	1.1	7230
Engine cranks but will not start	0.5	0.5	0.5	0.5	7231
Engine cranks but will not start	0.5	0.5	0.5	0.5	7235
Engine cranks but will not start	0.5	0.5	0.5	0.5	7250
Engine cranks but will not start	1.3	1.3	1.3	1.3	7255
Chart A-4:					
No spark, no check engine lamp	0.2	0.2	0.2	0.2	7270
No spark, no check engine lamp	0.8	0.8	0.8	0.8	7285
No spark, no check engine lamp	0.6	0.6	0.6	0.6	7291
No spark, no check engine lamp	1.3	1.3	1.3	1.3	7295
No spark, no check engine lamp	0.4	0.4	0.4	0.4	7305
No spark, no check engine lamp	0.5	0.5	0.5	0.5	7310
Chart C:					
Misfire	0.2	0.2	0.2	0.2	7520
Misfire	0.3	0.3	0.3	0.3	7525
Misfire	0.3	0.3	0.3	0.3	7535
Misfire	0.8	0.8	0.8	0.8	7540
Misfire	0.7	0.7	0.7	0.7	7541
Code-12:					
Map sensor	0.7	0.7	0.7	0.7	7620
Map sensor	1.9	1.9	1.9	1.9	7625
Map sensor	0.9	0.9	0.9	0.9	7630
Map sensor	0.3	0.3	0.3	0.3	7635
Map sensor	0.5	0.5	0.5	0.5	7640
Map sensor	0.6	0.6	0.6	0.6	7641
Map sensor	0.5	0.5	0.5	0.5	7642
Map sensor	0.5	0.5	0.5	0.5	7645
Map sensor	0.8	0.8	0.8	0.8	7650
Map sensor	0.5	0.5	0.5	0.5	7655

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
<p>Ignition System (Cont'd)</p> <p><i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the DYNA Service Manual, Part No. 99481-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i></p> <p>Code-16:</p> <p>Battery voltage test 0.5</p> <p>Battery voltage test 0.5</p> <p>Battery voltage test 0.9</p> <p>Battery voltage test 1.1</p> <p>Battery voltage test 0.9</p> <p>Battery voltage test 1.5</p> <p>Battery voltage test 1.0</p> <p>Battery voltage test 1.3</p> <p>Battery voltage test 1.2</p> <p>Code-24 & 25:</p> <p>Ignition coil 0.3</p> <p>Ignition coil 0.3</p> <p>Ignition coil 0.5</p> <p>Ignition coil 0.6</p> <p>Ignition coil 0.6</p> <p>Ignition coil 0.2</p> <p>Code-35:</p> <p>Tachometer ---</p> <p>Tachometer ---</p> <p>Tachometer ---</p> <p>Tachometer ---</p> <p>Tachometer ---</p> <p>Code-41:</p> <p>Crank position sensor 0.5</p> <p>Crank position sensor 1.0</p> <p>Crank position sensor 0.5</p> <p>Crank position sensor 1.3</p> <p>Crank position sensor 1.2</p> <p>Crank position sensor 1.1</p> <p>Crank position sensor 0.6</p> <p>Crank position sensor 0.6</p> <p>Crank position sensor 0.6</p>					

FXD DYNA MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)				LABOR CODE
JOB DESCRIPTION	GHV	GDV	GLV, GJV	GEV	
ELECTRICAL (Cont'd)					
Ignition System (Cont'd)					
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the DYNA Service Manual, Part No. 99481-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>					
Code-44:					
Bank angle sensor	0.2	0.2	0.2	0.2	7971
Bank angle sensor	0.3	0.3	0.3	0.3	7972
Bank angle sensor	0.6	0.6	0.6	0.6	7973
Bank angle sensor	0.5	0.5	0.5	0.5	7974
Bank angle sensor	0.6	0.6	0.6	0.6	7975
Bank angle sensor	0.3	0.3	0.3	0.3	7976
Codes-52, 53, 54, and 55:					
Ignition module failure	0.4	0.4	0.4	0.4	7913
Battery/Horn					
Replace the battery	0.3	0.3	0.3	0.3	5705
Replace horn and/or bracket	0.1	0.1	0.1	0.1	5765
Accessories					
Replace windshield (GLV only)	---	---	0.1	---	6203
Replace w/s adjustment assembly (GLV only)	---	---	0.4	---	6211
Replace w/s gearbox assembly (GLV only)	---	---	0.7	---	6212
Replace saddlebag knob					
per side (GLV only)	---	---	0.1	---	6249
Replace saddlebag frame					
per side (GLV only)	---	---	0.2	---	6250
Replace plastic bushing in saddlebag frame					
1 bag (GLV only)	---	---	0.1	---	6251
Replace fairing (GLV only)	---	---	0.2	---	6255
Replace electrical and/or coil cover	---	0.1	---	0.1	6263
Replace fairing mounts (GLV only)	---	---	0.6	---	6279
Replace sissy bar	---	---	---	0.4	6511
Replace mirror	0.1	0.1	0.1	0.1	6513
Replace backrest	---	---	---	0.2	6515

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
SERVICE			
New			
Set-up and pre-delivery	2.5	2.5	---
1,000 mile service	2.5	2.5	---
Regular			
2,500 mile maintenance	0.5	0.5	---
5,000 mile maintenance	2.5	2.5	---
7,500 mile maintenance	0.5	0.5	---
10,000 mile maintenance	4.5	4.5	---
CHASSIS			
Drive			
Adjust secondary belt	0.3	0.3	---
Replace secondary belt.....	2.8	2.8	2011
Replace rear drive sprockets - rear wheel sprocket.....	0.8	0.8	2021
Wheels			
Replace tire - includes balancing			
front	0.6	0.6	2106
rear	0.7	0.7	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing			
front	0.8	0.8	2113
rear	0.9	0.9	2114
Replace rim, hub or spokes			
front	2.2	2.2	2116
rear	2.3	2.3	2121
Replace wheel bearings			
front	0.6	0.6	2136
rear	0.7	0.7	2141
True spoked wheel.....	0.4	0.4	2156

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
CHASSIS (Cont'd)			
Handlebars			
Replace handlebars	1.2	1.2	2206
Replace clutch hand lever	0.2	0.2	2221
Replace clutch hand lever bracket	0.2	0.2	2226
Replace throttle control	0.4	0.4	2231
Replace and adjust throttle control cables			
one or both	0.6	0.6	2241
Replace both rubber handlebar mounts	1.0	1.0	2246
Replace rubber handlebar grip	0.2	0.2	2251
Replace handlebar riser			
one or both	1.0	1.0	2253
Replace handlebar clamp			
one or both	0.8	0.8	2254
Frame/Swing Arm/Front Fork			
Replace frame – includes removal and installation of all			
accessories and motorcycle components	17.5	17.0	2306
Replace front fork assembly	3.0	3.0	2311
Replace lower fork bracket and stem	3.2	3.2	2316
Replace steering head cups and bearings, including			
bearing adjustment	3.2	3.2	2321
Replace upper fork bracket	2.7	2.7	2326
Replace fork lock	0.3	0.3	2329
Adjust steering head bearings	0.7	0.7	---
Change front fork oil	0.7	0.7	---
Replace front nacelle	0.6	0.6	2331
Service or replace fork slider and/or seal – includes			
removal, disassembly, cleaning, inspection, replacing			
parts, servicing damper tube, replacing bushings,			
assembly and installation			
one side	1.9	1.9	2341
both sides	2.3	2.3	2342
Replace fork side			
one side	1.2	1.2	2346
both sides	1.5	1.5	2351
Replace fork tube			
one side	1.4	1.4	2356
both sides	1.7	1.7	2361
Replace front fork air line	0.6	0.6	2363
Replace rear swing arm and/or bushings	2.2	2.2	2366
Replace rear fork pivot shaft	1.0	1.0	2368
Replace rear shock air line	0.1	0.1	2369
Replace rear shock absorber assembly			
one side	0.3	0.3	2371
both sides	0.6	0.6	2376

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
CHASSIS (Cont'd)			
Frame/Swing Arm/Front Fork (Cont'd)			
Replace rear shock absorber component(s)			
one side.....	0.5	0.5	2381
both sides.....	0.8	0.8	2386
Replace jiffy stand			
complete.....	0.3	0.3	2391
spring and/or stand	0.2	0.2	2396
rubber bumper.....	0.1	0.1	2399
Replace motor rubber mount			
rear left.....	0.3	0.3	2397
rear right.....	0.5	0.5	2395
front.....	0.4	0.4	2398
Replace footboard.....	0.2	0.2	2394
Brakes			
Replace hydraulic brake line – includes filling/bleeding brakes			
front.....	1.0	1.0	2406
rear.....	0.4	0.4	2411
Replace rear master cylinder reservoir hose and/or hose..	0.2	0.2	2414
Replace brake pads			
front – each caliper.....	0.1	0.1	2416
rear.....	0.2	0.2	2421
Replace brake caliper – includes filling/bleeding brakes			
front – each caliper.....	0.4	0.4	2426
rear.....	1.0	1.0	2431
Replace brake disc			
front – one side.....	0.3	0.3	2436
– both sides.....	0.4	0.4	2437
rear.....	1.3	1.3	2441
Bleed brake caliper – one or two front calipers or rear caliper.....	0.2	0.2	2446
Overhaul brake caliper – includes filling/bleeding brakes			
front – each caliper.....	0.6	0.6	2451
rear.....	1.3	1.3	2456
Replace master cylinder assembly – includes filling/bleeding brakes			
front.....	0.4	0.4	2461
rear.....	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes			
front.....	0.6	0.6	2471
rear.....	0.7	0.7	2476
Replace rear brake pedal.....	0.3	0.3	2492
Replace front brake lever.....	0.1	0.1	2494

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
CHASSIS (Cont'd)			
Seats/Fenders/Tanks			
Replace seat	0.2	0.2	2506
Replace fender			
front	1.0	1.0	2526
rear	1.2	1.2	2531
Replace rear fender support.....	0.1	0.1	2536
Replace fuel tank assembly	1.2	0.8	2541
Replace fuel tank console / instrument panel	0.3	0.3	2553
Replace fuel tank console rubber molding strip	0.2	0.2	2557
Replace fuel tank valve	--	0.2	2561
Replace fuel tank gauge	0.3	0.3	2563
Replace fuel tank gauge sending unit	0.6	0.3	2564
Replace fuel tank check valves in/out/O-ring assembly	0.8	--	2567
Replace canopy gasket.....	0.5	--	2570
Replace fuel pump	0.6	--	2573
Replace fuel filter.....	0.6	--	2575
Replace any hose	0.3	0.3	2576
Replace fuel hose or any hose inside tank	0.6	--	2579
Replace oil filter.....	0.1	0.1	2582
Replace oil filter bracket.....	0.6	0.6	2584
Belt Guards			
Replace rear belt guard – debris deflector	0.2	0.2	2616
Exhaust System			
Replace complete exhaust system and/or gaskets	1.0	1.0	2626
Replace exhaust pipe			
right side.....	1.0	1.0	2631
left side.....	0.3	0.3	2636
Replace one muffler	0.2	0.2	2646
Replace any one exhaust shield	0.1	0.1	2661
Replace one muffler support	0.2	0.2	2666
ENGINE			
General			
Remove and install engine – California vehicles only	4.6	4.3	3006
Remove and install engine.....	4.5	4.2	3006
Replace and adjust stabilizer – top	0.8	0.8	3005
– front.....	0.3	0.3	3007
Remove and replace oil pan for inspection/contamination			
with engine removed.....	0.3	0.3	3009

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ENGINE (Cont'd)			
Cylinder Head			
Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.			
front head	4.5	4.2	3101
rear head	4.5	4.2	3103
both heads	5.1	4.8	3104
Replace cylinder head			
one head	3.2	2.9	3106
both heads	3.8	3.5	3108
Replace valve seal or spring after cylinder head removal			
one seal or spring (intake or exhaust)	0.1	0.1	3131
both seals or springs (intake or exhaust)	0.2	0.2	3132
Replace cylinder head gasket/O-ring			
front cylinder	2.6	2.3	3140
rear cylinder	2.6	2.3	3142
both cylinders	3.0	2.7	3143
Replace rocker arm covers and/or gaskets			
front cylinder	0.8	0.8	3144
rear cylinder	0.8	0.8	3145
both cylinders	0.9	0.9	3148
Recondition rocker arms after heads are removed			
one head	0.7	0.7	3149
both heads	1.4	1.4	3150
Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support			
front cylinder	1.2	1.2	3147
rear cylinder	1.2	1.2	3152
both cylinders	1.4	1.4	3153
Replace cylinder O-ring/drain O-ring			
front cylinder	2.8	2.5	3161
rear cylinder	2.8	2.5	3163
both cylinders	3.2	2.9	3168
Replace crankcase umbrella valve			
one	1.1	1.1	3172
both	1.2	1.2	3174
Cylinder and Piston			
Recondition TOP END - includes disassembly, replacement of piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.5	5.2	3202
both pistons and cylinders	6.1	5.8	3203
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.			
one piston and cylinder	5.9	5.6	3211
both pistons and cylinders	6.5	6.2	3212

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ENGINE (Cont'd)			
Cylinder and Piston (Cont'd)			
Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.			
one piston and cylinder	5.3	5.0	3207
both pistons and cylinders.....	5.9	5.6	3208
Replace piston rings – includes deglazing cylinder			
one cylinder.....	3.1	2.8	3206
both cylinders.....	3.7	3.4	3216
Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly			
one cylinder.....	3.7	3.4	3221
both cylinders.....	4.9	4.6	3231
Replace cylinder and piston			
one cylinder.....	3.0	2.7	3236
both cylinders.....	3.5	3.2	3246
Replace upper connecting rod bushing during upper end repair			
Replace one cylinder stud – cylinder removed.....	0.4	0.4	3251
Replace all eight cylinder studs – cylinders removed.....	0.1	0.1	3253
Replace all eight cylinder studs – cylinders removed.....	0.5	0.5	3254
Cam Cover			
Replace lifter cover/gasket or lifter/and, or anti-rotation pin			
one	1.4	1.4	3307
both	1.6	1.6	3310
Replace push rod, push rod cover and/or O-ring or quad seal			
one or two same cylinder	1.4	1.4	3317
one each cylinder.....	1.6	1.6	3318
Replace cam cover and/or gasket.....	1.6	1.6	3325
Replace primary cam chain, sprockets and/or fastener	1.7	1.7	3327
Replace primary cam chain tensioner.....	1.7	1.7	3328
Replace cam support plate/O-rings.....	2.8	2.8	3335
Replace cam support plate	2.8	2.8	3337
Replace cam support bearing/cams/secondary cam chain/tensioner			
Replace oil pump and/or O-rings.....	3.0	3.0	3338
Replace cam bearing crankcase	2.6	2.6	3341
one bearing	2.8	2.8	3342
two bearings.....	2.9	2.9	3343
By pass valve inspection.....	2.7	2.7	3354

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ENGINE (Cont'd)			
Crankcase			
Replace crankcases – California vehicles only – includes remove and install engine	8.2	7.9	3406
Replace crankcases – includes remove and install engine	8.1	7.8	3406
Seal crankcase only	7.5	7.5	3407
Replace flywheels – includes remove and install engine ..	7.6	7.3	3411
Replace right side main bearing – California vehicles only	7.1	6.8	3412
Replace right side main bearing	7.0	6.7	3412
Piston jet/O-ring			
one.....	3.0	2.7	3413
both	3.4	3.1	3414
Filter housing and or O-rings.....	0.2	0.2	3415
Check flywheel trueness before assembly or after removal.	0.1	0.1	3420
True flywheels after removal – includes piston removal and			
reinstallation	0.5	0.5	3421
Recondition cylinder heads – head removed			
(for non-related repairs)			
one head	1.0	1.0	3425
both heads	2.0	2.0	3426
Replace piston rings – cylinders removed			
(for non-related repairs – deglaze only)	0.3	0.3	3428
Fuel System			
Replace air cleaner backing plate	0.2	0.2	3501
Replace air cleaner cover.....	0.1	0.1	3502
Replace carburetor.....	---	---	3506
Replace induction module – includes making cruise			
control adjustment	1.0	---	3508
Replace induction module seal	1.0	---	3510
Replace intake manifold and/or seal			
one	---	0.6	3511
Replace external fuel supply/return hose - one or both	0.6	0.6	3514
Replace carburetor float valve or jet, or check			
float level or seal	---	0.5	3516
Replace accelerator pump	---	0.5	3521
Replace enrichener cable	---	0.4	3523
Replace carburetor diaphragm.....	---	0.5	3524
Evaporative Emissions System			
Replace canister.....	0.1	0.1	3527
Replace vapor valve.....	0.1	0.1	3528
Replace any one hose	0.1	0.1	3529

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
<i>DRIVE/CLUTCH</i>			
Drive			
Adjust primary chain.....	0.2	0.2	---
Replace primary chain.....	0.9	0.9	4002
Replace engine sprocket.....	0.9	0.9	4003
Replace engine sprocket seal.....	1.3	1.3	4005
Replace primary cover.....	0.4	0.4	4007
Replace primary cover gasket.....	0.4	0.4	4009
Replace primary inspection cover and/or O-ring.....	0.1	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.1	2.1	4008
Clutch			
Adjust clutch.....	0.2	0.2	---
Replace release cable assembly.....	1.2	1.2	4006
Service the clutch – includes disassembly, cleaning, inspection repair, assembly, and adjustment.....	1.3	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	0.4	4016
Replace clutch release (ball ramp) and/or side cover.....	1.6	1.6	4018
<i>TRANSMISSION</i>			
Transmission Case			
Replace transmission case.....	5.3	5.3	4304
Replace transmission complete.....	4.9	4.9	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case in frame).....	4.6	4.6	4306
Replace transmission sprocket.....	2.2	2.2	4309
Replace main drive gear oil seal (in transmission case)....	2.3	2.3	4311
Replace mainshaft oil seal (in main drive gear).....	2.2	2.2	4316
Replace side door gasket.....	2.8	2.8	4321
Replace shifter drum – includes removal, adjusting cam spacing and end play, and installation.....	1.4	1.4	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement.....	3.0	3.0	4336
Replace transmission top cover and/or gasket.....	1.2	1.2	4341
Replace shifter forks and/or shaft – includes checking gear engagement.....	0.9	0.9	4343
Replace side door bearing			
one.....	3.0	3.0	4348
both.....	3.1	3.1	4351
Replace transmission case countershaft bearing.....	2.9	2.9	4361
Replace main drive gear and/or bearing.....	3.2	3.2	4366
Replace transmission side cover gasket.....	0.9	0.9	4368
Replace oil pan and/or gasket or baffle			
Note: Removal of rear wheel may be necessary.....	0.9	0.9	4378
Replace oil fill tube and/or cover, and/or gasket.....	0.3	0.3	4379
Replace transmission shifter seal.....	2.2	2.2	4390

<p align="center">ROAD KING MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>		<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FRW/FBW</p>	<p align="center">FDV</p>	
<p>ELECTRICAL</p>			
<p><i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2000 Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i></p>			
<p>General</p>			
<p>Check and diagnose the electrical system:</p>			
Lights and accessories – excluding turn signals	0.3	0.3	5016
Replace connector housing.....	0.1	0.1	5022
Replace connector anchor	0.1	0.1	5023
<p>Charging circuit:</p>			
Diagnose charging system – regulator inspection.....	0.1	0.1	5306
Diagnose charging system – regulator bleed	0.9	0.9	5307
Diagnose charging system – milliamp draw	0.2	0.2	5308
Diagnose charging system – total current draw	0.2	0.2	5310
Diagnose charging system – open/grounded stator.....	1.8	1.8	5312
Diagnose charging system – AC output.....	1.8	1.8	5314
Diagnose charging system – regulator failure.....	1.0	1.0	5315
Diagnose charging system – voltage output	1.0	1.0	5316
Diagnose charging system – replace rotor.....	1.3	1.3	5319
<p>Starter circuit:</p>			
Starter inoperative – open/shorted/grounded motor	1.4	1.4	5817
Starter inoperative – start button	1.0	1.0	5818
Starter inoperative – solenoid clicks; poor starter			
or battery connections.....	0.2	0.2	5822
Starter inoperative – solenoid clicks; poor relay or			
solenoid connections, or bad relay contacts	0.3	0.3	5823
Starter inoperative – solenoid clicks; poor starter			
to battery connections, ground connections, or bad			
solenoid contacts	0.2	0.2	5824
Starter inoperative – damaged motor.....	1.4	1.4	5825
Starter inoperative – relay click; open in relay wiring	0.3	0.3	5827
Starter inoperative – nothing clicks; poor relay ground ..	0.3	0.3	5828
Starter inoperative – nothing clicks; short to voltage.....	0.4	0.4	5830
Starter inoperative – nothing clicks; open in			
wiring to or from starter button	0.5	0.5	5831
Starter inoperative – starter relay	0.4	0.4	5832
Slow starter crank or starter stalls; poor starter to			
battery connections, ground connections	0.2	0.2	5835
Slow starter crank or starter stalls – binding	0.3	0.3	5836
Starter spins – clutch.....	1.5	1.5	5837
Starter inoperative - nothing clicks; TSM/TSSM.....	0.4	0.4	5838
Replace starter solenoid, contacts			
includes starter motor removal	1.6	1.6	5845
Starter binding	1.6	1.6	5850
Replace starter solenoid – coil, includes starter motor removal	1.6	1.6	5860

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ELECTRICAL			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2000 Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Instruments			
Fuel gauge, see FUEL TANK..... -- --	----
Replace speedometer – cosmetics only.....	..... 0.2 .....	..... 0.2	6003
Replace instrument housing (console).....	..... 0.3 .....	..... 0.3	6019
Electronic speedometer:			
Diagnose inoperative, inaccurate or erratic speedometer – switch .....	..... 0.3 .....	..... 0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer .....	..... 0.1 .....	..... 0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer – wiring.....	..... 0.2 .....	..... 0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer – replace .....	..... 0.5 .....	..... 0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer – wiring.....	..... 0.3 .....	..... 0.3	6008
Diagnose inoperative, inaccurate or erratic speedometer – sensor .....	..... 0.5 .....	..... 0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer – open .....	..... 0.6 .....	..... 0.6	6013
Diagnose inoperative, inaccurate or erratic speedometer – LED failure.....	..... 0.2 .....	..... 0.2	6014
Diagnose inoperative, inaccurate or erratic speedometer – wires.....	..... 0.4 .....	..... 0.4	6016
Odometer inoperable.....	..... 0.2 .....	..... 0.2	6020
Diagnose inoperative, inaccurate or erratic speedometer – internal .....	..... 0.5 .....	..... 0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground .....	..... 0.5 .....	..... 0.5	6024
Diagnose inoperative, inaccurate, or erratic speedometer – debris or sensor.....	..... 0.5 .....	..... 0.5	6029
Wiring			
Replace FLHR main wiring harness.....	..... 3.1 .....	..... 3.1	5026
Replace EFI harness.....	..... 1.7 .....	..... -- .....	5033
Replace rear fender wiring harness .....	..... 0.8 .....	..... 0.8	5036
Replace any single wire			
light circuit .....	..... 0.2 .....	..... 0.2	5039
accessory circuit.....	..... 0.2 .....	..... 0.2	5043
Repair/diagnose indicator lamp wiring .....	..... 0.3 .....	..... 0.3	5048
Replace front fender wiring harness.....	..... -- .....	..... 0.9	5049
Replace ignition wiring harness.....	..... -- .....	..... 1.1	5050

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2000 Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Switches			
Replace ignition switch.....	0.3	0.3	5129
Replace rear stoplight switch	0.4	0.4	5141
Replace fuse	0.1	0.1	5145
Replace main circuit breaker.....	0.2	0.2	5147
Replace fuse block.....	0.3	0.3	5148
Replace transmission neutral switch – includes diagnosis.....	0.3	0.3	5157
Replace oil pressure switch – includes diagnosis	0.3	0.3	5161
Replace spotlamp switch.....	0.2	0.1	5167
Replace rear stoplight relay.....	0.1	0.1	5169
Replace left upper handlebar switch	0.5	0.5	5171
Replace right upper handlebar switch.....	0.7	0.7	5173
Replace front brake light switch	0.6	0.6	5176
Replace left upper handlebar switch housing	0.2	0.2	5177
Replace left lower handlebar switch housing	0.2	0.2	5178
Replace right upper handlebar switch housing	0.2	0.2	5179
Replace right lower handlebar switch housing.....	0.7	0.4	5180
Replace handlebar (cruise set) switch	1.2	1.2	5182
Lights			
Replace headlight – includes diagnosis	0.1	0.1	5185
Replace headlight housing – includes adjustment.....	0.2	0.2	5189
Replace indicator lamp assembly.....	0.2	0.2	5191
Replace taillight bulb or single light bulb or lens			
– includes diagnosis.....	0.1	0.1	5197
Replace taillamp assembly or circuit board.....	0.2	0.2	5215
Replace turn signal light assembly			
front	0.4	0.4	5201
rear	0.4	0.4	5205
Replace rear turn signal bar	0.4	0.4	5207
Replace fender tip light bulb or lens – includes diagnosis			
front	---	0.1	5217
rear	---	0.1	5221
Replace fender tip lamp assembly			
front	---	0.2	5225
rear	---	0.3	5229
Replace passing lamp.....	0.4	0.4	5230
Replace passing lamp bracket	0.7	0.7	5232

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2000 Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Turn Signals/Security System			
No security lamp.....	0.4	0.4	6735
No security lamp.....	0.4	0.4	6736
No security lamp.....	0.4	0.4	6737
No security lamp.....	0.4	0.4	6738
No security lamp.....	0.1	0.1	6739
No security lamp.....	0.2	0.2	6740
No security lamp.....	0.3	0.3	6741
No security lamp.....	0.3	0.3	6742
No security lamp.....	0.3	0.3	6743
No security lamp.....	0.2	0.2	6744
No security lamp.....	0.3	0.3	6745
Security lamp on continuously.....	0.2	0.2	6750
Security lamp on continuously.....	0.3	0.3	6751
Security lamp on continuously.....	0.4	0.4	6752
Fob signal weak	0.1	0.1	6755
Fob signal weak	0.1	0.1	6756
Fob signal weak	0.2	0.2	6757
Turn signal error 2A.....	0.9	0.9	6773
Turn signal error 2B.....	0.6	0.6	6777
Turn signal error 2B.....	0.5	0.5	6778
Turn signal error 2B.....	0.7	0.7	6779
Turn signal error 2B.....	0.6	0.6	6780
Turn signal error 2C	0.7	0.7	6784
Turn signal error 2C	0.7	0.7	6785
Turn signal error 2C	1.1	1.1	6786
Turn signal error 3A.....	0.3	0.3	6790
Turn signal error 3A.....	0.2	0.2	6791
Turn signal error 3A.....	0.1	0.1	6792
Turn signal error 3A.....	0.3	0.3	6793
Turn signal error 3B.....	0.1	0.1	6796
Turn signal error 3B.....	0.3	0.3	6797
Turn signal error 3B.....	0.3	0.3	6798
Turn signal error 3B.....	0.3	0.3	6799
Turn signal error 3B.....	0.3	0.3	6800
Turn signal error 3C	0.3	0.3	6805
Turn signal error 3C	0.3	0.3	6806
Turn signal error 3C	0.2	0.2	6807
Turn signal error 3C	0.3	0.3	6808
Turn signal error 3D	0.3	0.3	6810
Turn signal error 3D	0.7	0.7	6811
Turn signal error 3D	0.4	0.4	6812
Turn signal error 3D	0.3	0.3	6813
Turn signal error 3D	0.4	0.4	6814
Turn signal error 3D	0.7	0.7	6815
Turn signal error 3D	0.4	0.4	6816

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2000 Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Turn Signals/Security System (Cont'd)			
Turn signal error 3D .....	..... 0.4 .....	..... 0.4	6810
Turn signal error 3D .....	..... 0.7 .....	..... 0.7	6811
Turn signal error 3D .....	..... 0.4 .....	..... 0.4	6812
Turn signal error 3D .....	..... 0.3 .....	..... 0.3	6813
Turn signal error 3D .....	..... 0.4 .....	..... 0.4	6814
Turn signal error 3D .....	..... 0.7 .....	..... 0.7	6815
Turn signal error 3D .....	..... 0.4 .....	..... 0.4	6816
Turn signal error 4A.....	..... 0.2 .....	..... 0.2	6820
Turn signal error 4A.....	..... 0.2 .....	..... 0.2	6821
Turn signal error 4A.....	..... 0.4 .....	..... 0.4	6822
*Turn signal error 4A.....	..... 0.3 .....	..... 0.3	6823
Turn signal error 4A.....	..... 0.5 .....	..... 0.5	6824
Ignition enable output high .....	..... 0.3 .....	..... 0.3	6827
Ignition enable output high .....	..... 0.3 .....	..... 0.3	6828
Alarm output .....	..... 0.3 .....	..... 0.3	6830
Alarm output .....	..... 0.3 .....	..... 0.3	6831
Alarm output .....	..... 0.3 .....	..... 0.3	6832
Alarm output .....	..... 0.4 .....	..... 0.4	6833
Alarm output .....	..... 0.3 .....	..... 0.3	6834
Alarm output .....	..... 0.3 .....	..... 0.3	6835
Starter output high.....	..... 0.3 .....	..... 0.3	6840
Starter output high.....	..... 0.2 .....	..... 0.2	6841
Starter output high.....	..... 0.3 .....	..... 0.3	6842
Starter output high.....	..... 0.3 .....	..... 0.3	6842
Accelerometer fault .....	..... 0.2 .....	..... 0.2	6845
Ignition System			
Diagnostic check .....	..... --- .....	..... 0.2	7110
Diagnostic check .....	..... --- .....	..... 0.3	7115
Diagnostic check .....	..... --- .....	..... 0.6	7120
Diagnostic check .....	..... --- .....	..... 0.5	7125
Chart A-1:			
No check engine lamp.....	..... --- .....	..... 0.4	7130
No check engine lamp.....	..... --- .....	..... 0.4	7135
No check engine lamp.....	..... --- .....	..... 0.5	7143
No check engine lamp.....	..... --- .....	..... 0.4	7145

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2000 Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Ignition System (Cont'd)			
Chart A-2:			
Check engine lamp on continuously .....	..... -- .....	..... 0.3	7148
Check engine lamp on continuously .....	..... -- .....	..... 0.1	7150
Check engine lamp on continuously .....	..... -- .....	..... 0.5	7160
Check engine lamp on continuously .....	..... -- .....	..... 0.4	7165
Chart A-3:			
Engine cranks but will not start.....	..... -- .....	..... 0.2	7180
Engine cranks but will not start.....	..... -- .....	..... 0.2	7185
Engine cranks but will not start.....	..... -- .....	..... 0.4	7210
Engine cranks but will not start.....	..... -- .....	..... 0.5	7215
Engine cranks but will not start.....	..... -- .....	..... 0.6	7225
Engine cranks but will not start.....	..... -- .....	..... 0.6	7226
Engine cranks but will not start.....	..... -- .....	..... 0.7	7227
Engine cranks but will not start.....	..... -- .....	..... 0.7	7228
Engine cranks but will not start.....	..... -- .....	..... 1.5	7230
Engine cranks but will not start.....	..... -- .....	..... 0.8	7231
Engine cranks but will not start.....	..... -- .....	..... 0.7	7235
Engine cranks but will not start.....	..... -- .....	..... 0.6	7250
Engine cranks but will not start.....	..... -- .....	..... 1.9	7255
Chart A-4:			
No spark, no check engine lamp .....	..... -- .....	..... 0.3	7270
No spark, no check engine lamp .....	..... -- .....	..... 0.4	7285
No spark, no check engine lamp .....	..... -- .....	..... 0.5	7291
No spark, no check engine lamp .....	..... -- .....	..... 1.0	7295
No spark, no check engine lamp .....	..... -- .....	..... 0.2	7305
No spark, no check engine lamp .....	..... -- .....	..... 0.4	7310
Chart C:			
Misfire.....	..... -- .....	..... 0.2	7520
Misfire.....	..... -- .....	..... 0.5	7525
Misfire.....	..... -- .....	..... 0.5	7535
Misfire.....	..... -- .....	..... 0.6	7540
Misfire.....	..... -- .....	..... 0.6	7541
Code-12:			
Map sensor.....	..... -- .....	..... 0.2	7620
Map sensor.....	..... -- .....	..... 1.7	7625
Map sensor.....	..... -- .....	..... 0.6	7630
Map sensor.....	..... -- .....	..... 0.4	7635
Map sensor.....	..... -- .....	..... 0.4	7640
Map sensor.....	..... -- .....	..... 0.4	7641
Map sensor.....	..... -- .....	..... 0.4	7642
Map sensor.....	..... -- .....	..... 0.5	7645
Map sensor.....	..... -- .....	..... 0.7	7650
Map sensor.....	..... -- .....	..... 0.6	7655

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2000 Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Ignition System (Cont'd)			
Code-16:			
Battery voltage test	---	0.4	7770
Battery voltage test	---	0.7	7775
Battery voltage test	---	0.7	7776
Battery voltage test	---	0.9	7779
Battery voltage test	---	0.8	7780
Battery voltage test	---	1.1	7781
Battery voltage test	---	1.0	7782
Battery voltage test	---	1.0	7783
Battery voltage test	---	0.9	7784
Code-24 & 25:			
Ignition coil	---	0.3	7855
Ignition coil	---	0.6	7856
Ignition coil	---	0.3	7860
Ignition coil	---	0.3	7865
Ignition coil	---	0.2	7870
Ignition coil	---	0.3	7875
Code-35:			
Tachometer	---	0.4	7881
Tachometer	---	0.3	7882
Tachometer	---	0.4	7883
Tachometer	---	0.4	7884
Tachometer	---	0.5	7886
Code-41:			
Crank position sensor	---	0.4	7980
Crank position sensor	---	0.9	7981
Crank position sensor	---	0.4	7982
Crank position sensor	---	1.1	7983
Crank position sensor	---	1.1	7984
Crank position sensor	---	1.1	7985
Crank position sensor	---	0.5	7986
Crank position sensor	---	0.5	7987
Crank position sensor	---	0.3	7988
Code-44:			
Bank angle sensor	---	0.2	7971
Bank angle sensor	---	0.3	7972
Bank angle sensor	---	0.4	7973
Bank angle sensor	---	0.2	7974
Bank angle sensor	---	0.3	7975
Bank angle sensor	---	0.2	7976
Bank angle sensor	---	0.2	7977

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)		LABOR CODE
JOB DESCRIPTION	FRW/FBW	FDV	
ELECTRICAL (Cont'd)			
<i>NOTE: All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the 2000 Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>			
Ignition System (Cont'd)			
Code-52, 53 and 55:			
Ignition module failure	---	0.2	7913
Battery/Horn			
Replace the battery	0.3	0.3	5705
Replace horn and/or bracket	0.2	0.2	5765
Replace battery tray	0.3	0.3	5767
Replace battery cable	0.2	0.2	5769
Accessories			
Replace windshield	0.1	0.1	6203
Replace windshield bushing – all or one	0.2	0.2	6208
Replace spring clip on windshield	0.2	0.2	6210
Replace saddlebag mounting bracket	0.2	0.2	6253
Replace saddlebag guard	0.3	0.3	6254
Replace saddlebag	0.2	0.2	6257
Replace saddlebag lock	---	0.2	6259
Replace saddlebag cover – one	0.2	0.2	6260
Replace saddlebag lock or latch	0.2	0.2	6261
Replace one saddlebag tether strap	---	0.1	6262
Replace one frame sidecover	0.1	0.1	6263
Replace fender tip			
front	0.1	---	6302
rear	0.1	---	6304
Replace bumper			
rear	---	0.2	6305
Replace highway bar			
front	0.3	0.3	6353
rear – left	0.3	0.3	6355
– right	0.4	0.4	6357
Replace mirror	0.1	0.1	6513

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FRW/FBW	
FUEL INJECTION SYSTEM		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the 2001 FLHRC-I Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
Diagnostic check	0.1	7105
Diagnostic check	0.3	7110
Diagnostic check	0.4	7115
Diagnostic check	0.5	7120
Diagnostic check	0.3	7125
No check engine lamp	0.3	7130
No check engine lamp	0.4	7135
No check engine lamp	0.5	7140
No check engine lamp	0.6	7145
Check engine lamp on continuously	0.1	7150
Check engine lamp on continuously	0.4	7155
Check engine lamp on continuously	0.5	7160
Check engine lamp on continuously	0.5	7165
Engine cranks but will not start	0.2	7180
Engine cranks but will not start	0.3	7185
Engine cranks but will not start	0.3	7190
Engine cranks but will not start	0.4	7195
Engine cranks but will not start	0.7	7205
Engine cranks but will not start	0.9	7210
Engine cranks but will not start	0.8	7215
Engine cranks but will not start	1.1	7225
Engine cranks but will not start	1.1	7226
Engine cranks but will not start	1.1	7227
Engine cranks but will not start	1.1	7228
Engine cranks but will not start	1.2	7230
Engine cranks but will not start	0.8	7231
Engine cranks but will not start	0.9	7235
Engine cranks but will not start	1.2	7240
Engine cranks but will not start	1.4	7242
Engine cranks but will not start	1.0	7245
Engine cranks but will not start	1.1	7250
* Engine cranks but will not start	3.4	7255
Engine cranks but will not start	1.3	7260
Engine cranks but will not start	1.2	7265

*Includes timer cover/gearcase cover disassembly

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FRW/FBW	
FUEL INJECTION SYSTEM		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the 2001 FLHRC-I Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
Fuel pressure test.....	0.2	7455
Fuel pressure test.....	1.2	7460
Fuel pressure test.....	0.6	7465
Fuel pressure test.....	0.6	7470
Fuel pressure test.....	0.6	7475
Fuel pressure test.....	1.6	7480
Idle speed control	0.2	7485
Idle speed control	0.3	7490
Idle speed control	0.5	7495
Idle speed control	0.5	7505
Idle speed control	0.5	7510
Idle speed control	0.6	7515
Idle speed control	0.4	7516
Misfire at idle or under load.....	0.1	7520
Misfire at idle or under load.....	0.2	7525
Misfire at idle or under load.....	0.3	7530
Misfire at idle or under load.....	1.0	7535
Misfire at idle or under load.....	0.6	7540
Misfire at idle or under load.....	0.7	7545
Misfire at idle or under load.....	0.9	7550
Throttle position sensor.....	0.2	7555
Throttle position sensor.....	0.5	7560
Throttle position sensor.....	3.4	7565
Throttle position sensor.....	1.8	7570
Throttle position sensor.....	0.4	7575
Throttle position sensor.....	0.4	7580
Throttle position sensor.....	0.4	7585
Throttle position sensor.....	1.8	7590
Throttle position sensor.....	1.8	7595
Throttle position sensor.....	0.4	7605
Throttle position sensor.....	0.4	7610
Throttle position sensor.....	0.4	7615
Barometric pressure sensor.....	0.5	7620
Barometric pressure sensor.....	1.3	7625
Barometric pressure sensor.....	0.8	7630
Barometric pressure sensor.....	0.4	7635
Barometric pressure sensor.....	0.5	7640
Barometric pressure sensor.....	0.5	7645
Barometric pressure sensor.....	0.4	7650
Barometric pressure sensor.....	0.5	7655
Barometric pressure sensor.....	1.0	7946

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FRW/FBW	
FUEL INJECTION SYSTEM		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the 2001 FLHRC-I Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
Engine temperature sensor	0.4	7660
Engine temperature sensor	1.4	7665
Engine temperature sensor	0.8	7670
Engine temperature sensor	0.5	7675
Engine temperature sensor	0.5	7680
Engine temperature sensor	0.5	7685
Engine temperature sensor	0.5	7690
Engine temperature sensor	0.4	7695
Engine temperature sensor	0.7	7705
Engine temperature sensor	0.5	7710
Intake air temperature sensor.....	0.6	7715
Intake air temperature sensor.....	3.9	7720
Intake air temperature sensor.....	2.1	7725
Intake air temperature sensor.....	0.6	7730
Intake air temperature sensor.....	0.4	7735
Intake air temperature sensor.....	0.4	7740
Intake air temperature sensor.....	0.6	7745
Intake air temperature sensor.....	0.5	7750
Intake air temperature sensor.....	0.6	7755
Intake air temperature sensor.....	2.1	7760
Battery voltage test**	0.7	7765
Battery voltage test**	0.8	7770
Battery voltage test**	0.8	7775
Battery voltage test**	1.1	7780
Fuel injectors	0.2	7785
Fuel injectors	0.3	7790
Fuel injectors	1.3	7795
Fuel injectors	0.5	7805
Fuel injectors	0.7	7810
Fuel injectors	0.4	7815
Fuel injectors	0.5	7820
Fuel injectors	0.5	7825
Fuel injectors	0.5	7830
Fuel injectors	0.5	7835
Fuel injectors	0.6	7840
Fuel injectors	0.4	7845
Fuel injectors	0.4	7850

**Includes charging diagnostics

ROAD KING MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FRW/FBW	
FUEL INJECTION SYSTEM		
<i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the 2001 FLHRC-I Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i>		
Ignition coil test.....	0.3	7855
Ignition coil test.....	0.8	7856
Ignition coil test.....	0.4	7860
Ignition coil test.....	0.5	7865
Ignition coil test.....	0.3	7870
Ignition coil test.....	0.4	7875
Ignition coil test.....	0.2	7880
Fuel pump relay.....	0.4	7885
Fuel pump relay.....	0.7	7890
Fuel pump relay.....	0.5	7895
Fuel pump relay.....	0.2	7905
Fuel pump relay.....	0.4	7910
Crank position sensor	0.4	7980
Crank position sensor	1.0	7981
Crank position sensor	0.5	7982
Crank position sensor	1.2	7983
Crank position sensor	1.1	7984
Crank position sensor	1.2	7985
Crank position sensor	0.6	7986
Crank position sensor	0.6	7987
Crank position sensor	0.3	7988
Cam position sensor	1.9	7941
Cam position sensor	0.4	7942
Cam position sensor	0.4	7943
Cam position sensor	0.4	7944
Cam position sensor	1.0	7946
Cam position sensor	0.3	7947
Cam position sensor	0.4	7948
Cam position sensor	1.2	7969
Bank angle sensor	0.2	7971
Bank angle sensor	0.3	7972
Bank angle sensor	0.4	7973
Bank angle sensor	0.3	7974
Bank angle sensor	0.4	7975
Bank angle sensor	0.2	7976
ECM failure.....	0.2	7913

FLTR MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FPV	
<p>SERVICE</p> <p>New</p> <p>Set-up and pre-delivery (includes setting SWR) 2.5 ---</p> <p>1,000 mile service 2.5 ---</p> <p>Regular</p> <p>2,500 mile maintenance 0.5 ---</p> <p>5,000 mile maintenance 2.5 ---</p> <p>7,500 mile maintenance 0.5 ---</p> <p>10,000 mile maintenance 4.5 ---</p>		
<p>CHASSIS</p> <p>Drive</p> <p>Adjust secondary belt 0.3 ---</p> <p>Replace secondary belt 2.8 2011</p> <p>Replace rear wheel sprocket 0.8 2021</p> <p>Wheels</p> <p>Replace tire and/or wheel assembly - includes balancing front 0.6 2106</p> <p>rear 0.7 2111</p> <p>Replace wheel assembly - includes disc and sprocket exchange and balancing front 0.8 2113</p> <p>rear 0.9 2114</p> <p>Replace rim, hub or spokes front 2.2 2116</p> <p>rear 2.3 2121</p> <p>Replace wheel bearings front 0.6 2136</p> <p>rear 0.7 2141</p> <p>True spoked wheel 0.4 2156</p>		

FLTR MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FPV	
CHASSIS (Cont'd)		
Handlebars		
Replace handlebars .....	..... 1.0	2206
Replace clutch hand lever .....	..... 0.2	2221
Replace clutch hand lever bracket .....	..... 0.2	2226
Replace throttle control .....	..... 0.4	2231
Replace and adjust throttle control cables		
one or both .....	..... 0.6	2241
Replace both rubber handlebar mounts .....	..... 1.0	2246
Replace rubber handlebar grip .....	..... 0.2	2251
Replace handlebar riser		
one or both .....	..... 1.0	2253
Replace handlebar clamp		
one or both .....	..... 0.8	2254
Frame/Swing Arm/Front Fork		
Replace frame – includes removal and installation of all accessories and motorcycle components .....	..... 17.0	2306
Replace front fork assembly .....	..... 3.0	2311
Replace lower fork bracket and stem .....	..... 3.2	2316
Replace steering head cups and bearings, including bearing adjustment .....	..... 3.2	2321
Replace upper fork bracket .....	..... 2.7	2326
Adjust steering head bearings .....	..... 0.7	---
Change front fork oil .....	..... 0.7	---
Replace complete lock set .....	..... 0.4	2333
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation		
one side .....	..... 1.9	2341
both sides .....	..... 2.3	2342
Replace fork side		
one side .....	..... 1.2	2346
both sides .....	..... 1.5	2351
Replace fork tube		
one side .....	..... 1.4	2356
both sides .....	..... 1.7	2361
Replace front fork air line .....	..... 0.7	2363
Replace rear swing arm and/or bushings .....	..... 2.2	2366
Replace rear fork pivot shaft .....	..... 1.0	2368
Replace rear shock air line .....	..... 0.1	2369
Replace rear shock absorber assembly		
one side 0.3	2371
both sides 0.6	2376

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p>CHASSIS (Cont'd)</p>		
<p>Frame/Swing Arm/Front Fork - Cont'd</p>		
<p>Replace rear shock absorber component(s)</p>		
<p> one side.....</p>	<p>0.5</p>	<p>2381</p>
<p> both sides.....</p>	<p>0.8</p>	<p>2386</p>
<p>Replace jiffy stand</p>		
<p> complete.....</p>	<p>0.3</p>	<p>2391</p>
<p> spring and/or stand</p>	<p>0.2</p>	<p>2396</p>
<p> rubber bumper.....</p>	<p>0.1</p>	<p>2399</p>
<p>Replace motor rubber mount</p>		
<p> rear left.....</p>	<p>0.3</p>	<p>2397</p>
<p> rear right.....</p>	<p>0.5</p>	<p>2395</p>
<p> front.....</p>	<p>0.4</p>	<p>2398</p>
<p>Replace footboard.....</p>	<p>0.2</p>	<p>2394</p>
<p>Brakes</p>		
<p>Replace hydraulic brake line – includes filling/bleeding</p>		
<p>brakes</p>		
<p> front.....</p>	<p>1.0</p>	<p>2406</p>
<p> rear.....</p>	<p>0.4</p>	<p>2411</p>
<p>Replace rear master cylinder reservoir and/or hose</p>	<p>0.2</p>	<p>2414</p>
<p>Replace brake pads</p>		
<p> front – each caliper.....</p>	<p>0.1</p>	<p>2416</p>
<p> rear.....</p>	<p>0.2</p>	<p>2421</p>
<p>Replace brake caliper – includes filling/bleeding brakes</p>		
<p> front – each caliper.....</p>	<p>0.4</p>	<p>2426</p>
<p> rear.....</p>	<p>1.0</p>	<p>2431</p>
<p>Replace brake disc</p>		
<p> front – one side</p>	<p>0.3</p>	<p>2436</p>
<p> – both sides.....</p>	<p>0.4</p>	<p>2437</p>
<p> rear.....</p>	<p>1.3</p>	<p>2441</p>
<p>Bleed brake caliper – one or two front calipers or rear</p>		
<p>caliper.....</p>	<p>0.2</p>	<p>2446</p>
<p>Overhaul brake caliper – includes filling/bleeding brakes</p>		
<p> front – each caliper.....</p>	<p>0.6</p>	<p>2451</p>
<p> rear.....</p>	<p>1.3</p>	<p>2456</p>
<p>Replace master cylinder assembly – includes</p>		
<p>filling/bleeding brakes</p>		
<p> front.....</p>	<p>0.4</p>	<p>2461</p>
<p> rear.....</p>	<p>0.5</p>	<p>2466</p>
<p>Rebuild master cylinder assembly – includes</p>		
<p>filling/bleeding brakes</p>		
<p> front.....</p>	<p>0.6</p>	<p>2471</p>
<p> rear.....</p>	<p>0.7</p>	<p>2476</p>
<p>Replace rear brake pedal.....</p>	<p>0.3</p>	<p>2492</p>
<p>Replace front brake lever.....</p>	<p>0.1</p>	<p>2494</p>

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>CHASSIS (Cont'd)</i></p>		
<p>Seats/Fenders/Tanks</p>		
<p>Replace seat</p>	<p align="right">0.1</p>	<p align="right">2506</p>
<p>Replace fender</p>		
<p> front</p>	<p align="right">1.0</p>	<p align="right">2526</p>
<p> rear</p>	<p align="right">1.2</p>	<p align="right">2531</p>
<p>Replace rear fender support.....</p>	<p align="right">0.1</p>	<p align="right">2536</p>
<p>Replace fuel tank assembly</p>	<p align="right">0.8</p>	<p align="right">2541</p>
<p>Replace fuel tank valve</p>	<p align="right">0.2</p>	<p align="right">2561</p>
<p>Replace fuel tank gauge</p>	<p align="right">0.5</p>	<p align="right">2563</p>
<p>Replace gasoline level sending unit.....</p>	<p align="right">0.6</p>	<p align="right">2564</p>
<p>Replace any hose</p>	<p align="right">0.3</p>	<p align="right">2576</p>
<p>Replace oil filter.....</p>	<p align="right">0.1</p>	<p align="right">2582</p>
<p>Replace oil filter bracket.....</p>	<p align="right">0.6</p>	<p align="right">2584</p>
<p>Replace fuel tank console / instrument panel</p>	<p align="right">0.3</p>	<p align="right">2553</p>
<p>Replace fuel tank console / rubber molding strip</p>	<p align="right">0.2</p>	<p align="right">2557</p>
<p>Belt Guards</p>		
<p>Replace rear belt guard – debris deflector</p>	<p align="right">0.2</p>	<p align="right">2616</p>
<p>Exhaust System</p>		
<p>Replace complete exhaust system and/or gaskets.....</p>	<p align="right">1.0</p>	<p align="right">2626</p>
<p>Replace exhaust pipe</p>		
<p> right side.....</p>	<p align="right">1.0</p>	<p align="right">2631</p>
<p> left side</p>	<p align="right">0.3</p>	<p align="right">2636</p>
<p>Replace one muffler</p>	<p align="right">0.2</p>	<p align="right">2646</p>
<p>Replace any one exhaust shield</p>	<p align="right">0.1</p>	<p align="right">2661</p>
<p>Replace one muffler support</p>	<p align="right">0.2</p>	<p align="right">2666</p>
<p><i>ENGINE</i></p>		
<p>General</p>		
<p>Remove and install engine – California vehicles only</p>	<p align="right">4.3</p>	<p align="right">3006</p>
<p>Remove and install engine</p>	<p align="right">4.2</p>	<p align="right">3006</p>
<p>Replace and adjust stabilizer – top</p>	<p align="right">0.8</p>	<p align="right">3005</p>
<p>Replace and adjust stabilizer – bottom</p>	<p align="right">0.3</p>	<p align="right">3007</p>
<p>Remove and replace oil pan for inspection/contamination with engine removed</p>	<p align="right">0.3</p>	<p align="right">3009</p>

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p>ENGINE (Cont'd)</p>		
<p>Cylinder Head</p>		
<p>Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.</p>		
front head	4.2	3101
rear head	4.2	3103
both heads	4.8	3104
<p>Replace cylinder head</p>		
one head	2.9	3106
both heads	3.5	3108
<p>Replace valve seal or spring after cylinder head removal</p>		
one seal or spring (intake or exhaust)	0.1	3131
both seals or springs (intake or exhaust)	0.2	3132
<p>Replace cylinder head gasket/O-ring</p>		
front cylinder	2.3	3140
rear cylinder	2.3	3142
both cylinders	2.7	3143
<p>Replace rocker arm covers and/or gaskets</p>		
front cylinder	0.8	3144
rear cylinder	0.8	3145
both cylinders	0.9	3148
<p>Recondition rocker arms after heads are removed</p>		
one head	0.7	3149
both heads	1.4	3150
<p>Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support</p>		
front cylinder	1.2	3147
rear cylinder	1.2	3152
both cylinders	1.4	3153
<p>Replace cylinder O-ring/drain O-ring</p>		
front cylinder	2.5	3161
rear cylinder	2.5	3163
both cylinders	2.9	3168
<p>Replace crankcase umbrella valve</p>		
one	1.1	3172
both	1.2	3174
<p>Cylinder and Piston</p>		
<p>Recondition TOP END - includes disassembly, replacement of piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.</p>		
one piston and cylinder	5.2	3202
both pistons and cylinders	5.8	3203
<p>Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.</p>		
one piston and cylinder	5.6	3211
both pistons and cylinders	6.2	3212

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>ENGINE (Cont'd)</i></p>		
<p>Cylinder and Piston - Cont'd</p>		
<p>Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.</p>		
<p> one piston and cylinder</p>	<p>..... 5.0</p>	<p>3207</p>
<p> both pistons and cylinders.....</p>	<p>..... 5.6</p>	<p>3208</p>
<p>Replace piston rings – includes deglazing cylinder</p>		
<p> one cylinder</p>	<p>..... 2.8</p>	<p>3206</p>
<p> both cylinders</p>	<p>..... 3.4</p>	<p>3216</p>
<p>Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly</p>		
<p> one cylinder</p>	<p>..... 3.4</p>	<p>3221</p>
<p> both cylinders</p>	<p>..... 4.6</p>	<p>3231</p>
<p>Replace cylinder and piston</p>		
<p> one cylinder</p>	<p>..... 2.7</p>	<p>3236</p>
<p> both cylinders</p>	<p>..... 3.2</p>	<p>3246</p>
<p>Replace upper connecting rod bushing during upper end repair</p>		
<p>.....</p>	<p>..... 0.4</p>	<p>3251</p>
<p>Replace one cylinder stud – cylinder removed.....</p>		
<p>.....</p>	<p>..... 0.1</p>	<p>3253</p>
<p>Replace all eight cylinder studs – cylinders removed.....</p>		
<p>.....</p>	<p>..... 0.5</p>	<p>3254</p>
<p>Cam Cover</p>		
<p>Replace lifter cover/gasket or lifter/and, or anti-rotation pin</p>		
<p> one</p>	<p>..... 1.4</p>	<p>3307</p>
<p> both</p>	<p>..... 1.6</p>	<p>3310</p>
<p>Replace push rod, push rod cover and/or O-ring or quad seal</p>		
<p> one or two same cylinder</p>	<p>..... 1.4</p>	<p>3317</p>
<p> one each cylinder</p>	<p>..... 1.6</p>	<p>3318</p>
<p>Replace cam cover and/or gasket.....</p>		
<p>.....</p>	<p>..... 1.6</p>	<p>3325</p>
<p>Replace primary cam chain, sprockets and/or fastener</p>		
<p>.....</p>	<p>..... 1.7</p>	<p>3327</p>
<p>Replace primary cam chain tensioner</p>		
<p>.....</p>	<p>..... 1.7</p>	<p>3328</p>
<p>Replace cam support plate/O-rings.....</p>		
<p>.....</p>	<p>..... 2.8</p>	<p>3335</p>
<p>Replace cam support plate</p>		
<p>.....</p>	<p>..... 2.8</p>	<p>3337</p>
<p>Replace cam support bearing/cams/secondary cam chain/tensioner</p>		
<p>.....</p>	<p>..... 3.0</p>	<p>3338</p>
<p>Replace oil pump and/or O-rings.....</p>		
<p>.....</p>	<p>..... 2.6</p>	<p>3341</p>
<p>Replace cam bearing crankcase</p>		
<p> one bearing</p>	<p>..... 2.8</p>	<p>3342</p>
<p> two bearings</p>	<p>..... 2.9</p>	<p>3343</p>
<p>By pass valve inspection</p>		
<p>.....</p>	<p>..... 2.7</p>	<p>3354</p>

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<p style="text-align: center;">JOB DESCRIPTION</p>	<p style="text-align: center;">FPV</p>	
<p>ENGINE (Cont'd)</p>		
<p>Crankcase</p>		
Replace crankcases – California vehicles only – includes remove and install engine	7.9	3406
Replace crankcases – includes remove and install engine	7.8	3406
Seal crankcase only	6.7	3407
Replace flywheels – includes remove and install engine ..	7.3	3411
Replace right side main bearing – California vehicles only	6.8	3412
Replace right side main bearing	6.7	3412
Piston jet/O-ring		
one	2.7	3413
both	3.1	3414
Filter housing and or O-rings	0.2	3415
Check flywheel trueness before assembly or after removal ..	0.1	3420
True flywheels after removal – includes piston removal and		
reinstallation	0.5	3421
Recondition cylinder heads – head removed		
(for non-related repairs)		
one head	1.0	3425
both heads	2.0	3426
Replace piston rings – cylinders removed		
(for non-related repairs – deglaze only)	0.3	3428
<p>Fuel System</p>		
Replace air cleaner backing plate	0.2	3501
Replace air cleaner cover	0.1	3502
Replace carburetor	0.4	3506
Replace intake manifold and/or seal		
one or both	0.6	3511
Replace carburetor float valve or jet, or check		
float level or seal	0.5	3516
Replace accelerator pump	0.5	3521
Replace enrichener cable	0.4	3523
Replace carburetor diaphragm	0.5	3524
<p>Evaporative Emissions System</p>		
Replace canister	0.1	3527
Replace vapor valve	0.1	3528
Replace any one hose	0.1	3529

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>DRIVE/CLUTCH</i></p>		
<p>Drive</p>		
Adjust primary chain.....	0.2	---
Replace primary chain.....	0.9	4002
Replace engine sprocket.....	0.9	4003
Replace engine sprocket seal.....	1.3	4005
Replace primary cover	0.4	4007
Replace primary cover gasket.....	0.4	4009
Replace primary inspection cover and/or O-ring.....	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.1	4008
<p>Clutch</p>		
Adjust clutch.....	0.2	---
Replace release cable assembly.....	1.2	4006
Service the clutch – includes disassembly, cleaning, inspection repair, assembly, and adjustment	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	4016
Replace clutch release (ball ramp) and/or side cover.....	1.6	4018
<p><i>TRANSMISSION</i></p>		
<p>Transmission Case</p>		
Replace transmission case	5.3	4304
Replace transmission complete	4.9	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case in frame)	4.6	4306
Replace transmission sprocket	2.2	4309
Replace main drive gear oil seal (in transmission case)	2.3	4311
Replace mainshaft oil seal (in main drive gear)	2.2	4316
Replace side door gasket.....	2.8	4321
Replace shifter drum – includes removal, adjusting and end play, and installation.....	1.4	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement.....	2.9	4336
Replace transmission top cover and/or gasket	1.2	4341
Replace shifter forks and/or shaft – includes checking gear engagement	1.8	4343
Replace side door bearing		
one	3.0	4348
both	3.1	4351
Replace transmission case countershaft bearing.....	2.9	4361
Replace main drive gear and/or bearing	3.2	4366
Replace transmission side cover gasket.....	0.9	4368
Replace oil pan and/or gasket or baffle		
(Note: removal of rear wheel may be necessary).....	0.9	4378
Replace oil fill tube and/or cover, and/or gasket	0.3	4379
Replace transmission shift shaft seal	2.2	4390

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>ELECTRICAL</i></p>		
<p><i>NOTE:</i> All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Diagnostic Manual, Part No. 99495-01.</p>		
<p>General</p>		
<p>Check and diagnose the electrical system</p>		
<p>Lights and accessories – excluding turn signals</p>	<p align="right">0.3</p>	<p align="right">5016</p>
<p>Replace connector housing.....</p>	<p align="right">0.1</p>	<p align="right">5022</p>
<p>Replace connector anchor</p>	<p align="right">0.1</p>	<p align="right">5023</p>
<p>Charging circuit:</p>		
<p> diagnose charging system – regulator inspection</p>	<p align="right">0.1</p>	<p align="right">5306</p>
<p> diagnose charging system – regulator bleed.....</p>	<p align="right">0.9</p>	<p align="right">5307</p>
<p> diagnose charging system – milliamp draw.....</p>	<p align="right">0.2</p>	<p align="right">5308</p>
<p> diagnose charging system – total current draw.....</p>	<p align="right">0.2</p>	<p align="right">5310</p>
<p> replace regulator/stator connector.....</p>	<p align="right">0.2</p>	<p align="right">5311</p>
<p> diagnose charging system – open grounded stator</p>	<p align="right">1.8</p>	<p align="right">5312</p>
<p> diagnose system – AC output</p>	<p align="right">1.8</p>	<p align="right">5314</p>
<p> diagnose charging system – regulator failure.....</p>	<p align="right">1.0</p>	<p align="right">5315</p>
<p> diagnose charging system – voltage output</p>	<p align="right">1.0</p>	<p align="right">5316</p>
<p> diagnose charging system – replace rotor.....</p>	<p align="right">1.3</p>	<p align="right">5319</p>
<p>Starter circuit:</p>		
<p> Starter inoperative – open/shorted/grounded motor</p>	<p align="right">1.4</p>	<p align="right">5817</p>
<p> Starter inoperative – start button</p>	<p align="right">1.0</p>	<p align="right">5818</p>
<p> Starter inoperative – solenoid clicks; poor starter</p>		
<p> or battery connections.....</p>	<p align="right">0.2</p>	<p align="right">5822</p>
<p> Starter inoperative – solenoid clicks; poor relay or</p>		
<p> solenoid connections, or bad relay contacts</p>	<p align="right">0.3</p>	<p align="right">5823</p>
<p> Starter inoperative – solenoid clicks; poor starter</p>		
<p> to battery connections, ground connections, or bad</p>		
<p> solenoid contacts</p>	<p align="right">0.2</p>	<p align="right">5824</p>
<p> Starter inoperative – damaged motor.....</p>	<p align="right">1.4</p>	<p align="right">5825</p>
<p> Starter inoperative – relay clicks; open in relay wiring ...</p>	<p align="right">0.3</p>	<p align="right">5827</p>
<p> Starter inoperative – nothing clicks; poor relay ground ..</p>	<p align="right">0.3</p>	<p align="right">5828</p>
<p> Starter inoperative – nothing clicks; short to voltage.....</p>	<p align="right">0.4</p>	<p align="right">5830</p>
<p> Starter inoperative – nothing clicks; open in</p>		
<p> wiring to or from starter button</p>	<p align="right">0.5</p>	<p align="right">5831</p>

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<p style="text-align: center;">JOB DESCRIPTION</p>	<p style="text-align: center;">FPV</p>	
<p><i>ELECTRICAL (Cont'd)</i></p>		
<p>General - cont'd</p>		
<p>Starter circuit - cont'd:</p>		
<p>Starter inoperative – starter relay</p>	<p>0.4</p>	<p>5832</p>
<p>Slow starter crank or starter stalls; poor starter to battery connections, ground connections</p>	<p>0.2</p>	<p>5835</p>
<p>Slow starter crank or starter stalls – binding</p>	<p>0.3</p>	<p>5836</p>
<p>Starter spins – clutch</p>	<p>1.5</p>	<p>5837</p>
<p>Starter inoperative – nothing clicks; TSM/TSSM</p>	<p>0.4</p>	<p>5838</p>
<p>Replace starter solenoid, contacts; includes starter motor removal</p>	<p>1.6</p>	<p>5845</p>
<p>Starter binding</p>	<p>1.6</p>	<p>5850</p>
<p>Replace starter solenoid – coil; includes starter motor removal</p>	<p>1.6</p>	<p>5860</p>
<p>Wiring</p>		
<p>Replace main wiring harness</p>	<p>3.6</p>	<p>5026</p>
<p>Main harness – locate and repair open/short</p>	<p>0.5</p>	<p>5028</p>
<p>Replace rear fender wiring harness</p>	<p>0.8</p>	<p>5036</p>
<p>Replace any single wire</p>		
<p> ground wire</p>	<p>0.4</p>	<p>5038</p>
<p> light circuit</p>	<p>0.2</p>	<p>5039</p>
<p> accessory circuit</p>	<p>0.2</p>	<p>5043</p>
<p>Repair/diagnose indicator lamp wiring</p>	<p>0.3</p>	<p>5048</p>
<p>Replace ignition wiring harness</p>	<p>1.1</p>	<p>5050</p>
<p>Replace inter connect harness</p>	<p>0.5</p>	<p>5052</p>
<p>Interconnect harness – repair short</p>	<p>0.5</p>	<p>6531</p>
<p>Interconnect harness – repair open</p>	<p>0.5</p>	<p>6532</p>
<p>Handlebar harness – repair short</p>	<p>0.4</p>	<p>6551</p>
<p>Handlebar harness – repair open</p>	<p>0.4</p>	<p>6552</p>
<p>Overlay harness – repair short</p>	<p>0.5</p>	<p>6560</p>
<p>Overlay harness – repair open</p>	<p>0.5</p>	<p>6561</p>
<p>Jumper harness – accessory switch to interconnect</p>	<p>0.6</p>	<p>6562</p>
<p>Switches</p>		
<p>Replace ignition switch</p>	<p>0.5</p>	<p>5129</p>
<p>Replace rear stoplight switch</p>	<p>0.5</p>	<p>5141</p>
<p>Replace fuse</p>	<p>0.4</p>	<p>5145</p>
<p>Replace main circuit breaker</p>	<p>0.2</p>	<p>5147</p>
<p>Replace fuse block-one</p>	<p>0.3</p>	<p>5148</p>
<p>Replace fuse block-two</p>	<p>0.5</p>	<p>5151</p>
<p>Replace transmission neutral switch – includes diagnosis</p>	<p>0.3</p>	<p>5157</p>
<p>Replace oil pressure switch – includes diagnosis</p>	<p>0.3</p>	<p>5161</p>
<p>Replace rear stoplight relay</p>	<p>0.2</p>	<p>5169</p>
<p>Replace left upper handlebar switch</p>	<p>0.5</p>	<p>5171</p>
<p>Replace right upper handlebar switch</p>	<p>0.7</p>	<p>5173</p>
<p>Replace front brake light switch</p>	<p>0.7</p>	<p>5176</p>
<p>Replace left upper handlebar switch housing</p>	<p>0.2</p>	<p>5177</p>
<p>Replace left lower handlebar switch housing</p>	<p>0.3</p>	<p>5178</p>
<p>Replace right upper handlebar switch housing</p>	<p>0.2</p>	<p>5179</p>
<p>Replace right lower handlebar switch housing</p>	<p>0.7</p>	<p>5180</p>
<p>Replace (cruise) set switch</p>	<p>1.2</p>	<p>5182</p>
<p>Replace handlebar mode switch</p>	<p>1.1</p>	<p>5183</p>
<p>Replace handlebar audio switch</p>	<p>1.0</p>	<p>5186</p>
<p>Replace any fairing switch</p>	<p>0.4</p>	<p>5192</p>

<p align="center">FLTR MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>ELECTRICAL (Cont'd)</i></p>		
<p>Lights</p>		
Replace headlight – includes diagnosis	0.3	5185
Replace headlight housing – includes adjustment	0.4	5189
Replace instrument panel bulb – includes diagnosis	0.2	5193
Replace taillight bulb or single light bulb or lens – includes diagnosis.....	0.1	5197
Replace taillight assembly or circuit board.....	0.2	5215
Replace turn signal light assembly front	0.4	5201
rear.....	0.4	5205
Replace rear turn signal bar.....	0.4	5207
Replace fender tip light bulb or lens – includes diagnosis rear.....	0.1	5221
Replace fender tip lamp assembly rear.....	0.3	5229
<p>Turn Signals / Security System</p>		
No security lamp.....	0.5	6735
No security lamp.....	0.5	6736
No security lamp.....	0.5	6737
No security lamp.....	0.5	6738
No security lamp.....	0.1	6739
No security lamp.....	0.2	6740
No security lamp.....	0.3	6741
No security lamp.....	0.3	6742
No security lamp.....	0.3	6743
No security lamp.....	0.2	6744
No security lamp.....	0.3	6745
Security lamp on continuously.....	0.2	6750
Security lamp on continuously.....	0.4	6751
Security lamp on continuously.....	0.5	6752
Fob signal weak	0.1	6755
Fob signal weak	0.1	6756
Fob signal weak	0.2	6757
Turn signal error 2A.....	0.9	6773
Turn signal error 2B.....	0.6	6777
Turn signal error 2B.....	0.5	6778
Turn signal error 2B.....	0.7	6779
Turn signal error 2B.....	0.7	6780
Turn signal error 2C	0.8	6784
Turn signal error 2C	0.8	6785
Turn signal error 2C	1.2	6786
Turn signal error 3A.....	0.3	6790
Turn signal error 3A.....	0.2	6791
Turn signal error 3A.....	0.1	6792
Turn signal error 3A.....	0.3	6793

FLTR MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FPV	
<i>ELECTRICAL (Cont'd)</i>		
Turn Signals / Security System - cont'd		
Turn signal error 3B.....	0.1	6796
Turn signal error 3B.....	0.3	6797
Turn signal error 3B.....	0.3	6798
Turn signal error 3B.....	0.3	6798
Turn signal error 3B.....	0.3	6800
Turn signal error 3C	0.3	6805
Turn signal error 3C	0.3	6806
Turn signal error 3C	0.2	6807
Turn signal error 3C	0.3	6808
Turn signal error 3D	0.4	6810
Turn signal error 3D	0.8	6811
Turn signal error 3D	0.5	6812
Turn signal error 3D	0.4	6813
Turn signal error 3D	0.5	6814
Turn signal error 3D	0.8	6815
Turn signal error 3D	0.5	6816
Turn signal error 4A.....	0.2	6820
Turn signal error 4A.....	0.2	6821
Turn signal error 4A.....	0.4	6822
Turn signal error 4A.....	0.3	6823
Turn signal error 4A.....	0.5	6824
Ignition enable output high	0.3	6827
Ignition enable output high	0.3	6828
Alarm output	0.3	6830
Alarm output.....	0.3	6831
Alarm output.....	0.3	6832
Alarm output.....	0.4	6833
Alarm output.....	0.3	6834
Alarm output.....	0.3	6835
Starter output high.....	0.3	6840
Starter output high.....	0.2	6841
Starter output high.....	0.3	6842
Accelerometer	0.2	6845

<p align="center">FLTR MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>ELECTRICAL (Cont'd)</i></p>		
<p>Ignition System</p>		
<p><i>NOTE: The diagnostic/replacement operations and times listed on the following pages have been created for your use. The codes must be used in conjunction with the repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01</i></p>		
<p>Diagnostic check</p> <p>Diagnostic check</p> <p>Diagnostic check</p> <p>Diagnostic check</p>	<p>0.2</p> <p>0.3</p> <p>0.4</p> <p>0.3</p>	<p>7110</p> <p>7115</p> <p>7120</p> <p>7125</p>
<p>Chart A-1:</p>		
<p>No check engine lamp</p> <p>No check engine lamp</p> <p>No check engine lamp</p> <p>No check engine lamp</p>	<p>0.2</p> <p>0.3</p> <p>0.3</p> <p>0.5</p>	<p>7130</p> <p>7135</p> <p>7143</p> <p>7145</p>
<p>Chart A-2:</p>		
<p>Check engine lamp on continuously</p> <p>Check engine lamp on continuously</p> <p>Check engine lamp on continuously</p> <p>Check engine lamp on continuously</p>	<p>0.3</p> <p>0.1</p> <p>0.5</p> <p>0.4</p>	<p>7148</p> <p>7150</p> <p>7160</p> <p>7165</p>
<p>Chart A-3:</p>		
<p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p> <p>Engine cranks but will not start.....</p>	<p>0.2</p> <p>0.2</p> <p>0.4</p> <p>0.5</p> <p>0.6</p> <p>0.6</p> <p>0.7</p> <p>0.7</p> <p>0.7</p> <p>1.5</p> <p>0.8</p> <p>0.7</p> <p>0.6</p> <p>1.9</p>	<p>7180</p> <p>7185</p> <p>7210</p> <p>7215</p> <p>7225</p> <p>7226</p> <p>7227</p> <p>7228</p> <p>7230</p> <p>7231</p> <p>7235</p> <p>7250</p> <p>7255</p>
<p>Chart A-4:</p>		
<p>No spark, no check engine lamp</p> <p>No spark, no check engine lamp</p> <p>No spark, no check engine lamp</p> <p>No spark, no check engine lamp</p> <p>No spark, no check engine lamp</p> <p>No spark, no check engine lamp</p>	<p>0.3</p> <p>0.4</p> <p>0.5</p> <p>1.0</p> <p>0.2</p> <p>0.4</p>	<p>7270</p> <p>7285</p> <p>7291</p> <p>7295</p> <p>7305</p> <p>7310</p>
<p>Chart C:</p>		
<p>Misfire</p> <p>Misfire</p> <p>Misfire</p> <p>Misfire</p> <p>Misfire</p>	<p>0.2</p> <p>0.5</p> <p>0.5</p> <p>0.6</p> <p>0.6</p>	<p>7520</p> <p>7525</p> <p>7535</p> <p>7540</p> <p>7541</p>

<p align="center">FLTR MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>ELECTRICAL (Cont'd)</i></p>		
<p>Ignition System - cont'd</p>		
<p>Code-12:</p>		
Map sensor.....	0.2	7620
Map sensor.....	1.7	7625
Map sensor.....	0.6	7630
Map sensor.....	0.4	7635
Map sensor.....	0.4	7640
Map sensor.....	0.5	7641
Map sensor.....	0.4	7642
Map sensor.....	0.5	7645
Map sensor.....	0.7	7650
Map sensor.....	0.6	7655
Code-16:		
Battery voltage test	0.4	7770
Battery voltage test	0.7	7775
Battery voltage test	0.7	7776
Battery voltage test	0.9	7779
Battery voltage test	0.8	7780
Battery voltage test	1.1	7781
Battery voltage test	0.8	7782
Battery voltage test	1.3	7783
Battery voltage test	1.0	7784
Code-24 & 25:		
Ignition coil	0.3	7855
Ignition coil	0.6	7856
Ignition coil	0.3	7860
Ignition coil	0.3	7865
Ignition coil	0.2	7870
Ignition coil	0.3	7875
Code-35:		
Tachometer	0.5	7881
Tachometer	0.4	7882
Tachometer	0.5	7883
Tachometer	0.5	7884
Tachometer	0.5	7886
Code-41:		
Crank position sensor.....	0.4	7980
Crank position sensor.....	0.9	7981
Crank position sensor.....	0.4	7982
Crank position sensor.....	1.1	7983
Crank position sensor.....	1.1	7984
Crank position sensor.....	1.1	7985
Crank position sensor.....	0.5	7986
Crank position sensor.....	0.5	7987
Crank position sensor.....	0.3	7988
Code-44:		
Bank angle sensor	0.2	7971
Bank angle sensor	0.3	7972
Bank angle sensor	0.4	7973
Bank angle sensor	0.2	7974
Bank angle sensor	0.3	7975
Bank angle sensor	0.2	7976

<p align="center">FLTR MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>ELECTRICAL (Cont'd)</i></p>		
<p>Ignition System - cont'd</p>		
<p>Code-52, 53 and 55:</p>		
<p>Ignition module failure</p>	<p>0.2</p>	<p>7913</p>
<p>Battery/Horn</p>		
<p>Replace the battery – includes activating.....</p>	<p>0.3</p>	<p>5705</p>
<p>Replace horn and/or bracket</p>	<p>0.1</p>	<p>5765</p>
<p>Replace battery tray</p>	<p>0.3</p>	<p>5767</p>
<p>Replace battery cable</p>	<p>0.2</p>	<p>5769</p>
<p>Instruments – Includes Diagnosis</p>		
<p>Replace speedometer – cosmetics only.....</p>	<p>0.2</p>	<p>6003</p>
<p>Electronic speedometer:</p>		
<p> Diagnose inoperative, inaccurate or erratic speedometer – switch</p>	<p>0.3</p>	<p>6001</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer</p>	<p>0.1</p>	<p>6002</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – wiring</p>	<p>0.2</p>	<p>6004</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – replace</p>	<p>0.5</p>	<p>6006</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – wiring</p>	<p>0.4</p>	<p>6008</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – sensor</p>	<p>0.5</p>	<p>6010</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – open</p>	<p>0.6</p>	<p>6013</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – LED failure.....</p>	<p>0.2</p>	<p>6014</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – wires.....</p>	<p>0.4</p>	<p>6016</p>
<p> Odometer inoperable.....</p>	<p>0.2</p>	<p>6020</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – internal</p>	<p>0.5</p>	<p>6022</p>
<p> Diagnose inoperative, inaccurate or erratic speedometer – power/ground</p>	<p>0.5</p>	<p>6024</p>
<p> Diagnose inoperative, inaccurate, or erratic speedometer – debris or sensor.....</p>	<p>0.5</p>	<p>6029</p>
<p> Replace tachometer</p>	<p>0.3</p>	<p>6009</p>
<p> Replace indicator panel lens</p>	<p>0.3</p>	<p>6018</p>
<p> Replace voltmeter or fuel gauge</p>	<p>0.3</p>	<p>6021</p>
<p> Replace oil pressure or air temperature gauge.....</p>	<p>0.3</p>	<p>6026</p>
<p> Replace speedometer/tachometer cover</p>	<p>0.3</p>	<p>6027</p>

<p align="center">FLTR MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FPV</p>	
<p><i>ELECTRICAL (Cont'd)</i></p> <p>Accessories – Cruise Control – Diagnosis, Repair</p> <p><i>NOTE: The charts referenced below are located in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i></p> <p>No set switch as per Chart A 0.3 6637</p> <p>No resume switch as per Chart B..... 0.3 6639</p> <p>No cruise lamp as per Chart C 0.3 6641</p> <p>No cruise power as per Chart D 0.3 6643</p> <p>No power from cruise enable as per Chart E..... 0.5 6645</p> <p>Constant brake light input as per Chart F-1 0.2 6647</p> <p>No front or rear brake light input – Chart F-2 0.3 6649</p> <p>Diagnose throttle switch in put as per Chart G 0.2 6651</p> <p>No speedometer input as per Chart H 0.8 6653</p> <p>No tachometer input as per Chart I 0.4 6655</p> <p>Replace cruise cable..... 0.4 6630</p> <p>Replace cruise module 0.7 6635</p>		

<p style="text-align: center;">FLTR MODELS</p> <p style="text-align: center;">Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p style="text-align: center;">MODEL PREFIX & JOB TIMES (in hours)</p>	<p style="text-align: center;">LABOR CODE</p>
<p style="text-align: center;">JOB DESCRIPTION</p>	<p style="text-align: center;">FPV</p>	
<p><i>ELECTRICAL (Cont'd)</i></p>		
<p>Accessories</p>		
Replace windshield	0.1	6203
Replace inner fairing	1.8	6209
Remove outer fairing/diagnosis.....	0.2	6252
Replace saddlebag mounting bracket.....	0.2	6253
Replace saddlebag guard – complete.....	0.3	6254
Replace outer fairing	0.4	6255
Replace a single saddlebag guard rail	0.2	6256
Replace a saddlebag	0.2	6257
Replace saddlebag lock	0.2	6259
Replace saddlebag cover		
one	0.2	6260
Replace one saddlebag tether strap	0.1	6262
Replace one frame sidecover.....	0.1	6263
Replace inner fairing bracket.....	1.0	6265
Replace instrument Nacelle	0.4	6267
Replace plastic sticker/instrument Nacelle.....	0.1	6268
Replace outer headlight lens.....	0.1	6269
Change Lock-set	0.5	6276
Replace highway bar		
front	0.6	6353
rear – left	0.3	6355
– right	0.4	6357
Replace Tour-Pak mount/luggage rack.....	0.7	6453
Replace mirror.....	0.1	6513
<p>Sound System – Diagnosis, Repair</p>		
Replace radio chassis.....	0.4	6601
Replace one front speaker.....	0.3	6605
Replace one speaker grill		
front	0.2	6607
Replace stereo antenna mast.....	0.3	6617
Replace front antenna lead.....	0.8	6609
Replace antenna mast mount	0.2	6611
<p>2001 Accessory Sidecar</p>		
Replace sidecar windshield.....	0.2	6901
Replace sidecar fender	0.8	6904
Replace seat	0.2	6907
Replace seat cable.....	0.5	6910
Replace liner (carpeting)	0.4	6913
Replace brake pads	0.2	6926
Replace brake caliper.....	0.3	6927
Replace brake disc.....	0.3	6929
Replace wheel.....	0.7	6931
Replace axle	0.8	6934
Removal of sidecar for service and reattachment –		
includes realignment	1.1	6954
Sidecar alignment.....	0.8	6956
Sidecar tub removal	0.3	6958

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p>SERVICE</p> <p>New</p> <p>Set-up and pre-delivery (includes setting SWR) 2.5 ---</p> <p>1,000 mile service 2.5 ---</p> <p>Regular</p> <p>2,500 mile maintenance 0.5 ---</p> <p>5,000 mile maintenance 2.5 ---</p> <p>7,500 mile maintenance 0.5 ---</p> <p>10,000 mile maintenance 4.5 ---</p>		
<p>CHASSIS</p> <p>Drive</p> <p>Adjust secondary belt 0.3 ---</p> <p>Replace secondary belt 2.8 2011</p> <p>Replace rear wheel sprocket 0.8 2021</p> <p>Wheels</p> <p>Replace tire and/or wheel assembly - includes balancing</p> <p>front 0.6 2106</p> <p>rear 0.7 2111</p> <p>Replace wheel assembly - includes disc and sprocket exchange and balancing</p> <p>front 0.8 2113</p> <p>rear 0.9 2114</p> <p>Replace rim, hub or spokes</p> <p>front 2.2 2116</p> <p>rear 2.3 2121</p> <p>True spoked wheel 0.4 2156</p> <p>Replace wheel bearings</p> <p>front 0.6 2136</p> <p>rear 0.7 2141</p>		

FLTRI MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FSW	
CHASSIS (Cont'd)		
Handlebars		
Replace handlebars	1.0	2206
Replace clutch hand lever	0.2	2221
Replace clutch hand lever bracket	0.2	2226
Replace throttle control	0.6	2231
Replace throttle control cable - one or more - includes all adjustments	1.1	2241
Replace both rubber handlebar mounts	1.0	2246
Replace rubber handlebar grip	0.2	2251
Replace handlebar riser one or both	1.0	2253
Replace handlebar clamp one or both	0.8	2254
Frame/Swing Arm/Front Fork		
Replace frame – includes removal and installation of all accessories and motorcycle components	17.5	2306
Replace front fork assembly	3.0	2311
Replace lower fork bracket and stem	3.2	2316
Replace steering head cups and bearings, including bearing adjustment	3.2	2321
Replace upper fork bracket	2.7	2326
Adjust steering head bearings	0.7	---
Change front fork oil	0.7	---
Replace complete lock set	0.4	2333
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation one side	1.9	2341
both sides	2.3	2342
Replace fork side one side	1.2	2346
both sides	1.5	2351
Replace fork tube one side	1.4	2356
both sides	1.7	2361
Replace front fork air line	0.7	2363
Replace rear swing arm and/or bushings	2.2	2366
Replace rear fork pivot shaft	1.0	2368
Replace rear shock air line	0.1	2369
Replace rear shock absorber assembly one side	0.3	2371
both sides	0.6	2376

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p>CHASSIS (Cont'd)</p>		
<p>Frame/Swing Arm/Front Fork (Cont'd)</p>		
<p>Replace rear shock absorber component(s)</p>		
<p> one side.....</p>	<p align="right">0.5</p>	<p align="right">2381</p>
<p> both sides.....</p>	<p align="right">0.8</p>	<p align="right">2386</p>
<p>Replace jiffy stand</p>		
<p> complete.....</p>	<p align="right">0.3</p>	<p align="right">2391</p>
<p> spring and/or stand</p>	<p align="right">0.2</p>	<p align="right">2396</p>
<p> rubber bumper.....</p>	<p align="right">0.1</p>	<p align="right">2399</p>
<p>Replace motor rubber mount</p>		
<p> rear left</p>	<p align="right">0.3</p>	<p align="right">2397</p>
<p> rear right.....</p>	<p align="right">0.5</p>	<p align="right">2395</p>
<p> front</p>	<p align="right">0.4</p>	<p align="right">2398</p>
<p>Replace footboard.....</p>	<p align="right">0.2</p>	<p align="right">2394</p>
<p>Brakes</p>		
<p>Replace hydraulic brake line – includes filling/bleeding</p>		
<p>brakes</p>		
<p> front.....</p>	<p align="right">1.0</p>	<p align="right">2406</p>
<p> rear</p>	<p align="right">0.4</p>	<p align="right">2411</p>
<p>Replace rear master cylinder reservoir and/or hose</p>	<p align="right">0.2</p>	<p align="right">2414</p>
<p>Replace brake pads</p>		
<p> front – each caliper.....</p>	<p align="right">0.1</p>	<p align="right">2416</p>
<p> rear</p>	<p align="right">0.2</p>	<p align="right">2421</p>
<p>Replace brake caliper – includes filling/bleeding brakes</p>		
<p> front – each caliper.....</p>	<p align="right">0.4</p>	<p align="right">2426</p>
<p> rear</p>	<p align="right">1.0</p>	<p align="right">2431</p>
<p>Replace brake disc</p>		
<p> front – one side</p>	<p align="right">0.3</p>	<p align="right">2436</p>
<p> – both sides.....</p>	<p align="right">0.4</p>	<p align="right">2437</p>
<p> rear</p>	<p align="right">1.3</p>	<p align="right">2441</p>
<p>Bleed brake caliper – one or two front calipers or rear</p>		
<p>caliper.....</p>	<p align="right">0.2</p>	<p align="right">2446</p>
<p>Overhaul brake caliper – includes filling/bleeding brakes</p>		
<p> front – each caliper.....</p>	<p align="right">0.6</p>	<p align="right">2451</p>
<p> rear</p>	<p align="right">1.3</p>	<p align="right">2456</p>
<p>Replace master cylinder assembly – includes</p>		
<p>filling/bleeding brakes</p>		
<p> front.....</p>	<p align="right">0.4</p>	<p align="right">2461</p>
<p> rear</p>	<p align="right">0.5</p>	<p align="right">2466</p>
<p>Rebuild master cylinder assembly – includes</p>		
<p>filling/bleeding brakes</p>		
<p> front.....</p>	<p align="right">0.6</p>	<p align="right">2471</p>
<p> rear</p>	<p align="right">0.7</p>	<p align="right">2476</p>
<p>Replace rear brake pedal.....</p>	<p align="right">0.3</p>	<p align="right">2492</p>
<p>Replace front brake lever.....</p>	<p align="right">0.1</p>	<p align="right">2494</p>

FLTRI MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FSW	
CHASSIS (Cont'd)		
Seats/Fenders/Tanks		
Replace seat	0.1	2506
Replace fender		
front	1.0	2526
rear	1.2	2531
Replace rear fender support.....	0.4	2536
Replace fuel tank assembly	1.2	2541
Replace fuel tank gauge	0.5	2563
Replace gasoline level sending unit.....	0.6	2564
Replace fuel tank check valves in/out/O-ring assembly	0.8	2567
Replace canopy gasket.....	0.5	2570
Replace fuel pump	0.6	2573
Replace fuel filter.....	0.6	2575
Replace any hose	0.3	2576
Replace fuel hose or any hose inside tank	0.6	2579
Replace oil filter.....	0.1	2582
Replace oil filter bracket.....	0.6	2584
Belt Guards		
Replace rear belt guard – debris deflector	0.2	2616
Exhaust System		
Replace complete exhaust system and/or gaskets	0.6	2626
Replace exhaust pipe		
right side.....	0.3	2631
left side.....	0.3	2636
Replace one muffler.....	0.2	2646
Replace any one exhaust shield	0.1	2661
Replace one muffler support	0.2	2666
ENGINE		
General		
Remove and install engine – California vehicles only	4.6	3006
Remove and install engine	4.5	3006
Replace and adjust stabilizer – top	0.8	3005
Replace and adjust stabilizer – front.....	0.3	3007
Remove and replace oil pan for inspection/contamination		
with engine removed	0.3	3009

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p>ENGINE (Cont'd)</p>		
<p>Cylinder Head</p>		
<p>Recondition cylinder head – includes removal of head and gasket, remove carbon, service valve guides, grind valves and seats, test springs and install head and gaskets.</p>		
<p>front head</p>	<p>4.5</p>	<p>3101</p>
<p>rear head</p>	<p>4.5</p>	<p>3103</p>
<p>both heads</p>	<p>5.1</p>	<p>3104</p>
<p>Replace cylinder head</p>		
<p>one head</p>	<p>3.2</p>	<p>3106</p>
<p>both heads</p>	<p>3.8</p>	<p>3108</p>
<p>Replace valve seal or spring after cylinder head removal</p>		
<p>one seal or spring (intake or exhaust)</p>	<p>0.1</p>	<p>3131</p>
<p>both seals or springs (intake or exhaust)</p>	<p>0.2</p>	<p>3132</p>
<p>Replace cylinder head gasket/o-ring</p>		
<p>front cylinder</p>	<p>2.6</p>	<p>3140</p>
<p>rear cylinder</p>	<p>2.6</p>	<p>3142</p>
<p>both cylinders</p>	<p>3.0</p>	<p>3143</p>
<p>Replace rocker arm covers and/or gaskets</p>		
<p>front cylinder</p>	<p>0.8</p>	<p>3144</p>
<p>rear cylinder</p>	<p>0.8</p>	<p>3145</p>
<p>both cylinders</p>	<p>0.9</p>	<p>3148</p>
<p>Recondition rocker arms after heads are removed</p>		
<p>one head</p>	<p>0.7</p>	<p>3149</p>
<p>both heads</p>	<p>1.4</p>	<p>3150</p>
<p>Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support</p>		
<p>front cylinder</p>	<p>1.2</p>	<p>3147</p>
<p>rear cylinder</p>	<p>1.2</p>	<p>3152</p>
<p>both cylinders</p>	<p>1.4</p>	<p>3153</p>
<p>Replace cylinder o-ring/drain o-ring</p>		
<p>front cylinder</p>	<p>2.8</p>	<p>3161</p>
<p>rear cylinder</p>	<p>2.8</p>	<p>3163</p>
<p>both cylinders</p>	<p>3.2</p>	<p>3168</p>
<p>Replace crankcase umbrella valve</p>		
<p>one</p>	<p>1.1</p>	<p>3172</p>
<p>both</p>	<p>1.2</p>	<p>3174</p>
<p>Cylinder and Piston</p>		
<p>Recondition TOP END - includes disassembly, replacement of piston and sizing cylinder (.005" pistons), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.</p>		
<p>one piston and cylinder</p>	<p>5.5</p>	<p>3202</p>
<p>both pistons and cylinders</p>	<p>6.1</p>	<p>3203</p>
<p>Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" oversize or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.</p>		
<p>one piston and cylinder</p>	<p>5.9</p>	<p>3211</p>
<p>both pistons and cylinders</p>	<p>6.5</p>	<p>3212</p>

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>ENGINE (Cont'd)</i></p>		
<p>Cylinder and Piston (Cont'd)</p>		
<p>Recondition TOP END – includes disassembly, deglazing cylinder and replacing rings, or replacing cylinder and piston, all items listed under RECONDITIONING CYLINDER HEAD and assembly.</p>		
<p> one piston and cylinder</p>	<p>..... 5.3</p>	<p>3207</p>
<p> both pistons and cylinders.....</p>	<p>..... 5.9</p>	<p>3208</p>
<p>Replace piston rings – includes deglazing cylinder</p>		
<p> one cylinder</p>	<p>..... 3.1</p>	<p>3206</p>
<p> both cylinders</p>	<p>..... 3.7</p>	<p>3216</p>
<p>Replace piston and piston rings – includes removal of cylinder head and cylinder, fitting new piston with rings, resizing cylinder and assembly</p>		
<p> one cylinder</p>	<p>..... 3.7</p>	<p>3221</p>
<p> both cylinders</p>	<p>..... 4.9</p>	<p>3231</p>
<p>Replace cylinder and piston</p>		
<p> one cylinder</p>	<p>..... 3.0</p>	<p>3236</p>
<p> both cylinders</p>	<p>..... 3.5</p>	<p>3246</p>
<p>Replace upper connecting rod bushing during upper</p>		
<p>end repair</p>	<p>..... 0.4</p>	<p>3251</p>
<p>Replace one cylinder stud – cylinder removed.....</p>		
<p>.....</p>	<p>..... 0.1</p>	<p>3253</p>
<p>Replace all eight cylinder studs – cylinders removed.....</p>		
<p>.....</p>	<p>..... 0.5</p>	<p>3254</p>
<p>Cam Cover</p>		
<p>Replace lifter cover/gasket or lifter/and, or anti-rotation pin</p>		
<p> one</p>	<p>..... 1.4</p>	<p>3307</p>
<p> both</p>	<p>..... 1.6</p>	<p>3310</p>
<p>Replace push rod, push rod cover and/or O-ring or quad seal</p>		
<p> one or two same cylinder</p>	<p>..... 1.4</p>	<p>3317</p>
<p> one each cylinder</p>	<p>..... 1.6</p>	<p>3318</p>
<p>Replace cam cover and/or gasket.....</p>		
<p>.....</p>	<p>..... 1.6</p>	<p>3325</p>
<p>Replace primary cam chain, sprockets and/or fastener</p>		
<p>.....</p>	<p>..... 1.7</p>	<p>3327</p>
<p>Replace primary cam chain tensioner</p>		
<p>.....</p>	<p>..... 1.7</p>	<p>3328</p>
<p>Replace cam support plate/O-rings.....</p>		
<p>.....</p>	<p>..... 2.8</p>	<p>3335</p>
<p>Replace cam support plate</p>		
<p>.....</p>	<p>..... 2.8</p>	<p>3337</p>
<p>Replace cam support bearing/cams/secondary cam chain/tensioner</p>		
<p>.....</p>	<p>..... 3.0</p>	<p>3338</p>
<p>Replace oil pump and/or O-rings.....</p>		
<p>.....</p>	<p>..... 2.6</p>	<p>3341</p>
<p>Replace cam bearing crankcase</p>		
<p> one bearing</p>	<p>..... 2.8</p>	<p>3342</p>
<p> two bearings</p>	<p>..... 2.9</p>	<p>3343</p>
<p>By pass valve inspection</p>		
<p>.....</p>	<p>..... 2.7</p>	<p>3354</p>

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>ENGINE (Cont'd)</i></p>		
<p>Crankcase</p>		
Replace crankcases – California vehicles only – includes remove and install engine	8.2	3406
Replace crankcases – includes remove and install engine	8.1	3406
Seal crankcase only	7.5	3407
Replace flywheels – includes remove and install engine ..	7.6	3411
Replace right side main bearing – California vehicles only	7.1	3412
Replace right side main bearing	7.0	3412
Piston jet/O-ring		
one	3.0	3413
both	3.4	3414
Filter housing and or O-rings	0.2	3415
Check flywheel trueness before assembly or after removal ..	0.1	3420
True flywheels after removal – includes piston removal and ..	0.5	3421
Recondition cylinder heads – head removed		
(for non-related repairs)		
one head	1.0	3425
both heads	2.0	3426
Replace piston rings – cylinders removed		
(for non-related repairs – deglaze only)	0.3	3428
<p>Fuel System</p>		
Replace air cleaner backing plate	0.2	3501
Replace air cleaner cover	0.1	3502
Replace induction module – includes making cruise		
control cable adjustment	1.0	3508
Replace induction module seal	1.0	3510
Replace exhaust fuel supply/return hose – one or both	0.6	3514
<p>Evaporative Emissions System</p>		
Replace canister	0.1	3527
Replace vapor valve	0.1	3528
Replace any one hose	0.1	3529

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>DRIVE/CLUTCH</i></p>		
<p>Drive</p>		
Adjust primary chain.....	0.2	---
Replace primary chain.....	0.9	4002
Replace engine sprocket.....	0.9	4003
Replace engine sprocket seal	1.3	4005
Replace primary cover	0.4	4007
Replace primary cover gasket.....	0.4	4009
Replace primary inspection cover and/or O-ring.....	0.1	4001
Replace inner primary case and/or mainshaft bearing.....	2.1	4008
<p>Clutch</p>		
Adjust clutch.....	0.2	---
Replace release cable assembly.....	1.2	4006
Service the clutch – includes disassembly, cleaning, inspection repair, assembly ,and adjustment	1.3	4011
Replace clutch release bearing and/or push rod.....	0.4	4016
Replace clutch release (ball ramp) and/or side cover.....	1.6	4018
<p><i>TRANSMISSION</i></p>		
<p>Transmission Case</p>		
Replace transmission case	5.3	4304
Replace transmission complete	4.9	4305
Overhaul transmission – includes disassembly, cleaning, inspection, replacing parts (transmission case		
in frame).....	4.6	4306
Replace transmission sprocket	2.2	4309
Replace main drive gear oil seal (in transmission case)	2.3	4311
Replace mainshaft oil seal (in main drive gear)	2.2	4316
Replace side door gasket.....	2.8	4321
Replace shifter drum – includes removal, adjusting cam spacing and end play, and installation	1.4	4331
Replace shifter arm assembly or springs – includes adjusting gear engagement.....	2.9	4336
Replace transmission top cover and/or gasket	1.2	4341
Replace shifter forks and/or shaft – includes checking gear engagement	1.8	4343
Replace side door bearing		
one	3.0	4348
both	3.1	4351
Replace transmission case countershaft bearing.....	2.9	4361
Replace main drive gear and/or bearing	3.2	4366
Replace transmission side cover gasket	0.9	4368
Replace oil pan and/or gasket or baffle		
(Note: removal of rear wheel may be necessary).....	0.9	4378
Replace oil fill tube and/or cover, and/or gasket	0.3	4379
Replace transmission shift shaft seal	2.2	4390

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<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>ELECTRICAL</i></p> <p><i>NOTE:</i> All codes include diagnostic time and replacement time if required. The codes must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</p> <p>General</p> <p>Check and diagnose the electrical system</p> <p>Lights and accessories – excluding turn signals 0.3 5016</p> <p>Replace connector housing..... 0.1 5022</p> <p>Replace connector anchor 0.1 5023</p> <p>Charging circuit:</p> <p> diagnose charging system – regulator inspection 0.1 5306</p> <p> diagnose charging system – regulator bleed..... 0.9 5307</p> <p> diagnose charging system – milliamp draw..... 0.2 5308</p> <p> diagnose charging system – total current draw..... 0.2 5310</p> <p> replace regulator/stator connector..... 0.2 5311</p> <p> diagnose charging system – open grounded stator 1.8 5312</p> <p> diagnose system – AC output 1.8 5314</p> <p> diagnose charging system – regulator failure..... 1.0 5315</p> <p> diagnose charging system – voltage output 1.0 5316</p> <p> diagnose charging system – replace rotor..... 1.3 5319</p> <p>Starter circuit:</p> <p> Starter inoperative – open/shorted/grounded motor 1.4 5817</p> <p> Starter inoperative – start button 1.0 5818</p> <p> Starter inoperative – solenoid clicks; poor starter or battery connections..... 0.2 5822</p> <p> Starter inoperative – solenoid clicks; poor relay or solenoid connections, or bad relay contacts 0.3 5823</p> <p> Starter inoperative – solenoid clicks; poor starter to battery connections, ground connections, or bad solenoid contacts 0.2 5824</p> <p> Starter inoperative – damaged motor..... 1.4 5825</p> <p> Starter inoperative – relay click; open in relay wiring 0.3 5827</p> <p> Starter inoperative – nothing clicks; poor relay ground .. 0.3 5828</p> <p> Starter inoperative – nothing clicks; short to voltage 0.4 5830</p> <p> Starter inoperative – nothing clicks; open in wiring to or from starter button 0.5 5831</p>		

FLTRI MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FSW	
<i>ELECTRICAL (Cont'd)</i>		
General - cont'd		
Starter circuit - cont'd:		
Starter inoperative – starter relay	0.4	5832
Slow starter crank or starter stalls; poor starter to battery connections, ground connections, or bad solenoid contacts	0.2	5835
Slow starter crank or starter stalls; jackshaft binding or defective starter motor	0.3	5836
Starter spins – clutch	1.5	5837
Starter inoperative – nothing clicks; TSM / TSSM	0.4	5838
Replace starter solenoid – contacts; includes starter motor removal	1.6	5845
Starter binding	1.6	5850
Replace starter solenoid – coil; includes starter motor removal	1.6	5860
Wiring		
Replace main wiring harness	3.6	5026
Replace ultra overlay	1.8	5027
Main harness – locate and repair open/short	0.5	5028
Replace rear fender wiring harness	0.8	5036
Replace ECM harness	1.7	5033
Replace sensor harness	1.3	5035
Replace any single wire		
ground wire	0.4	5038
light circuit	0.2	5039
accessory circuit	0.2	5043
Repair/diagnose indicator lamp wiring	0.3	5048
Replace ignition wiring harness	1.1	5050
Replace inter connect harness	0.5	5052
Interconnect harness – repair short	0.5	6531
Interconnect harness – repair open	0.5	6532
Handlebar harness – repair short	0.4	6551
Handlebar harness – repair open	0.4	6552
Overlay harness – repair short	0.5	6560
Overlay harness – repair open	0.5	6561
Jumper harness – accessory switch to interconnect	0.6	6562

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>ELECTRICAL (Cont'd)</i></p>		
<p>Switches</p>		
Replace ignition switch.....	0.5	5129
Replace rear stoplight switch	0.5	5141
Replace fuse	0.4	5145
Replace main circuit breaker.....	0.2	5147
Replace fuse block-one.....	0.3	5148
Replace fuse block-two	0.5	5151
Replace transmission neutral switch – includes diagnosis.	0.3	5157
Replace oil pressure switch – includes diagnosis	0.3	5161
Replace rear stoplight relay.....	0.2	5169
Replace left upper handlebar switch	0.5	5171
Replace right upper handlebar switch	0.7	5173
Replace front brake light switch	0.7	5176
Replace left upper handlebar switch housing	0.2	5177
Replace left lower handlebar switch housing	0.3	5178
Replace right upper handlebar switch housing	0.2	5179
Replace right lower handlebar switch housing	0.7	5180
Replace handlebar (cruise set) switch	1.2	5182
Replace handlebar mode switch	1.1	5183
Replace handlebar (PTT) switch	--	5184
Replace handlebar audio switch	1.0	5186
Replace any fairing switch.....	0.4	5192
<p>Lights</p>		
Replace headlight – includes diagnosis	0.3	5185
Replace headlight housing – includes adjustment	0.4	5189
Replace instrument panel bulb – includes diagnosis	0.2	5193
Replace taillight bulb or single light bulb or lens – includes diagnosis.....	0.1	5197
Replace turn signal light assembly		
front.....	0.4	5201
rear.....	0.4	5205
Replace rear turn signal bar.....	0.4	5207
Replace taillamp assembly or circuit board.....	0.2	5215
Replace fender tip light bulb or lens rear.....	0.1	5221
Replace fender tip lamp assembly rear.....	0.3	5229
<p>Battery/Horn</p>		
Replace the battery	0.3	5705
Replace horn and/or bracket.....	0.1	5765
Replace battery tray	0.3	5767
Replace battery cable	0.2	5769

FLTRI MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FSW	
<i>ELECTRICAL (Cont'd)</i>		
Turn Signals / Security System		
No security lamp.....	0.5	6735
No security lamp.....	0.5	6736
No security lamp.....	0.5	6737
No security lamp.....	0.5	6738
No security lamp.....	0.1	6739
No security lamp.....	0.2	6740
No security lamp.....	0.3	6741
No security lamp.....	0.3	6742
No security lamp.....	0.3	6743
No security lamp.....	0.2	6744
No security lamp.....	0.3	6745
Security lamp on continuously.....	0.2	6750
Security lamp on continuously.....	0.4	6751
Security lamp on continuously.....	0.5	6752
Fob signal weak	0.1	6755
Fob signal weak	0.1	6756
Fob signal weak	0.2	6757
Turn signal error 2A.....	0.9	6773
Turn signal error 2B.....	0.6	6777
Turn signal error 2B.....	0.5	6778
Turn signal error 2B.....	0.7	6779
Turn signal error 2B.....	0.7	6780
Turn signal error 2C	0.8	6784
Turn signal error 2C	0.8	6785
Turn signal error 2C	1.2	6786
Turn signal error 3A.....	0.3	6790
Turn signal error 3A.....	0.2	6791
Turn signal error 3A.....	0.1	6792
Turn signal error 3A.....	0.3	6793
Turn signal error 3B.....	0.1	6796
Turn signal error 3B.....	0.3	6797
Turn signal error 3B.....	0.3	6798
Turn signal error 3B.....	0.3	6798
Turn signal error 3B.....	0.3	6800
Turn signal error 3C	0.3	6805
Turn signal error 3C	0.3	6806
Turn signal error 3C	0.2	6807
Turn signal error 3C	0.3	6808
Turn signal error 3D	0.4	6810
Turn signal error 3D	0.8	6811
Turn signal error 3D	0.5	6812
Turn signal error 3D	0.4	6813
Turn signal error 3D	0.5	6814
Turn signal error 3D	0.8	6815
Turn signal error 3D	0.5	6816

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>ELECTRICAL (Cont'd)</i></p>		
<p>Turn Signals / Security System</p>		
Turn signal error 4A.....	0.2	6820
Turn signal error 4A.....	0.2	6821
Turn signal error 4A.....	0.4	6822
* Turn signal error 4A.....	0.3	6823
Turn signal error 4A.....	0.5	6824
Ignition enable output high	0.3	6827
Ignition enable output high	0.3	6828
Alarm output	0.3	6830
Alarm output.....	0.3	6831
Alarm output.....	0.3	6832
Alarm output.....	0.4	6833
Alarm output.....	0.3	6834
Alarm output.....	0.3	6835
Starter output high.....	0.3	6840
Starter output high.....	0.2	6841
Starter output high.....	0.3	6842
Accelerometer	0.2	6845
<p>Instruments – Includes Diagnosis</p>		
Replace speedometer – cosmetics only.....	0.2	6003
<p>Electronic speedometer:</p>		
Diagnose inoperative, inaccurate or erratic speedometer – switch	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer	0.1	6002
Diagnose inoperative, inaccurate or erratic speedometer – wiring.....	0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer – replace	0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer – wiring.....	0.3	6008
Diagnose inoperative, inaccurate or erratic speedometer – sensor	0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer – open	0.6	6013
Diagnose inoperative, inaccurate or erratic speedometer – LED failure.....	0.2	6014
Diagnose inoperative, inaccurate or erratic speedometer – wires.....	0.4	6016
Odometer inoperable.....	0.2	6020
Diagnose inoperative, inaccurate or erratic speedometer – internal	0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer – power/ground	0.5	6024
Diagnose inoperative, inaccurate, or erratic speedometer – debris or sensor.....	0.5	6029

FLTRI MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FSW	
<i>ELECTRICAL (Cont'd)</i>		
Instruments – Includes Diagnosis - cont'd		
Replace tachometer .....	..... 0.3	6009
Replace voltmeter or fuel gauge .....	..... 0.3	6021
Replace oil pressure or air temperature gauge .....	..... 0.3	6026
Replace speedometer/tachometer cover .....	..... 0.3	6027
Replace ambient temperature sensor .....	..... 0.3	6028
Replace low fuel module .....	..... 0.3	6030
Accessories		
Replace windshield .....	..... 0.1	6203
Replace inner fairing .....	..... 1.8	6209
Remove outer fairing/diagnosis .....	..... 0.2	6252
Replace saddlebag mounting bracket .....	..... 0.2	6253
Replace saddlebag guard – complete .....	..... 0.3	6254
Replace outer fairing .....	..... 0.4	6255
Replace a single saddlebag guard rail .....	..... 0.2	6256
Replace a saddlebag .....	..... 0.2	6257
Replace saddlebag lock .....	..... 0.2	6259
Replace saddlebag cover one .....	..... 0.2	6260
Replace one saddlebag tether strap .....	..... 0.1	6262
Replace one frame sidecover .....	..... 0.1	6263
Replace inner fairing bracket .....	..... 0.1	6265
Replace instrument Nacelle .....	..... 0.4	6267
Replace plastic sticker/instrument Nacelle .....	..... 0.1	6268
Replace outer headlight lens .....	..... 0.1	6269
Change Lock-set .....	..... 0.5	6276
Replace highway bar front .....	..... 0.6	6353
rear – left .....	..... 0.3	6355
– right .....	..... 0.4	6357
Replace Tour-Pak mount/luggage rack .....	..... 0.7	6453
Replace mirror .....	..... 0.1	6513

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>ELECTRICAL (Cont'd)</i></p> <p>Sound System – Diagnosis, Repair</p> <p>Replace radio chassis 0.4 6601</p> <p>Replace one front speaker 0.3 6605</p> <p>Replace one speaker grill front 0.2 6607</p> <p>Replace stereo antenna mast 0.3 6617</p> <p>Replace front antenna lead 1.8 6609</p> <p>Replace antenna mast mount 0.2 6611</p>		
<p><i>SIDECAR</i></p> <p>2001 Ultras with Accessory Sidecar</p> <p>Replace sidecar windshield 0.2 6901</p> <p>Replace sidecar fender 0.8 6904</p> <p>Replace seat 0.2 6907</p> <p>Replace seat cable 0.5 6910</p> <p>Replace liner (carpeting) 0.4 6913</p> <p>Replace armrest storage pouch 0.2 6916</p> <p>Replace armrest 0.2 6919</p> <p>Replace handles 0.1 6922</p> <p>Replace brake pads 0.2 6926</p> <p>Replace brake caliper 0.3 6927</p> <p>Replace brake disc 0.3 6929</p> <p>Replace wheel 0.7 6931</p> <p>Replace axle 0.8 6934</p> <p>Repair/replace audio harness 1.0 6940</p> <p>Replace speaker 0.5 6943</p> <p>Replace speaker pod 0.6 6946</p> <p>Replace amplifier 0.6 6949</p> <p>Removal of sidecar for service and reattachment – includes realignment 1.1 6954</p> <p>Sidecar alignment 0.8 6956</p> <p>Sidecar tub removal 0.3 6958</p>		

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>ELECTRICAL (Cont'd)</i></p> <p>Accessories – Cruise Control – Diagnosis, Repair</p> <p><i>NOTE: The charts referenced below are located in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i></p> <p>No set switch as per Chart A</p> <p>No resume switch as per Chart B.....</p> <p>No cruise lamp as per Chart C</p> <p>No cruise power as per Chart D</p> <p>No power from cruise enable as per Chart E.....</p> <p>Constant brake light input as per Chart F-1</p> <p>No front or rear brake light input – Chart F-2</p> <p>Diagnose throttle switch in put as per Chart G</p> <p>No speedometer input as per Chart H</p> <p>No tachometer input as per Chart I</p> <p>Replace cruise cable.....</p> <p>Replace cruise module</p>	<p align="center">..... 0.3</p> <p align="center">..... 0.3</p> <p align="center">..... 0.3</p> <p align="center">..... 0.3</p> <p align="center">..... 0.5</p> <p align="center">..... 0.2</p> <p align="center">..... 0.3</p> <p align="center">..... 0.2</p> <p align="center">..... 0.8</p> <p align="center">..... 0.4</p> <p align="center">..... 0.4</p> <p align="center">..... 0.7</p>	<p align="center">6637</p> <p align="center">6639</p> <p align="center">6641</p> <p align="center">6643</p> <p align="center">6645</p> <p align="center">6647</p> <p align="center">6649</p> <p align="center">6651</p> <p align="center">6653</p> <p align="center">6655</p> <p align="center">6630</p> <p align="center">6635</p>

<p style="text-align: center;">FLTRI MODELS</p> <p style="text-align: center;">Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p style="text-align: center;">MODEL PREFIX & JOB TIMES (in hours)</p>	<p style="text-align: center;">LABOR CODE</p>
<p style="text-align: center;">JOB DESCRIPTION</p>	<p style="text-align: center;">FSW</p>	
<p>FUEL INJECTION SYSTEM</p>		
<p><i>NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the FLT Service Manual, Part No. 99483-01 and Electrical Diagnostic Manual, Part No. 99495-01.</i></p>		
Diagnostic check	0.1	7105
Diagnostic check	0.3	7110
Diagnostic check	0.4	7115
Diagnostic check	0.5	7120
Diagnostic check	0.3	7125
No check engine lamp	0.3	7130
No check engine lamp	0.3	7135
No check engine lamp	0.3	7143
No check engine lamp	0.5	7145
Check engine lamp on continuously	0.3	7148
Check engine lamp on continuously	0.1	7150
Check engine lamp on continuously	0.5	7160
Check engine lamp on continuously	0.4	7165
Engine cranks but will not start	0.2	7180
Engine cranks but will not start	0.3	7185
Engine cranks but will not start	0.3	7190
Engine cranks but will not start	0.4	7195
Engine cranks but will not start	0.7	7205
Engine cranks but will not start	0.9	7210
Engine cranks but will not start	0.8	7215
Engine cranks but will not start	0.8	7220
Engine cranks but will not start	1.0	7225
Engine cranks but will not start	1.1	7227
Engine cranks but will not start	1.1	7228
Engine cranks but will not start	0.8	7231
Engine cranks but will not start	1.4	7242
Engine cranks but will not start	1.0	7245
Engine cranks but will not start	1.1	7250
* Engine cranks but will not start	3.4	7255
Engine cranks but will not start	1.3	7260
Engine cranks but will not start	1.2	7265

* Includes timer cover/gearcase cover disassembly

FLTRI MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FSW	
<i>FUEL INJECTION SYSTEM (Cont'd)</i>		
No ECM power.....	0.3	7270
No ECM power.....	0.4	7275
No ECM power.....	0.4	7280
No ECM power.....	0.6	7285
No ECM power.....	0.6	7290
No ECM power.....	0.7	7295
No ECM power.....	0.2	7305
No ECM power.....	0.4	7310
No ECM power.....	0.4	7315
No ECM power.....	0.5	7320
No ECM power.....	0.3	7325
No ECM power.....	0.5	7330
No ECM power.....	0.5	7331
Fuel system electrical test.....	0.4	7335
Fuel system electrical test.....	0.6	7336
Fuel system electrical test.....	0.6	7340
Fuel system electrical test.....	0.4	7345
Fuel system electrical test.....	0.7	7350
Fuel system electrical test.....	0.4	7355
Fuel system electrical test.....	1.0	7360
Fuel system electrical test.....	0.4	7365
Fuel system electrical test.....	0.7	7370
Fuel system electrical test.....	0.4	7375
Fuel system electrical test.....	0.4	7380
Fuel system electrical test.....	0.2	7385
Fuel system electrical test.....	1.0	7390
Fuel system electrical test.....	1.0	7395
Fuel system electrical test.....	1.8	7405
Fuel system electrical test.....	1.2	7410
Fuel system electrical test.....	1.2	7415
Fuel system electrical test.....	0.3	7420
Fuel system electrical test.....	0.4	7425
Fuel system electrical test.....	0.3	7430
Fuel system electrical test.....	0.4	7435
Fuel system electrical test.....	0.4	7440
Fuel system electrical test.....	0.3	7445
Fuel system electrical test.....	0.3	7450

<p style="text-align: center;">FLTRI MODELS</p> <p style="text-align: center;">Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p style="text-align: center;">MODEL PREFIX & JOB TIMES (in hours)</p>	<p style="text-align: center;">LABOR CODE</p>
<p style="text-align: center;">JOB DESCRIPTION</p>	<p style="text-align: center;">FSW</p>	
<p><i>FUEL INJECTION SYSTEM (Cont'd)</i></p>		
Fuel pressure test.....	0.2	7455
Fuel pressure test.....	1.2	7460
Fuel pressure test.....	0.6	7465
Fuel pressure test.....	0.6	7470
Fuel pressure test.....	0.6	7475
Fuel pressure test.....	1.6	7480
Idle speed control	0.2	7485
Idle speed control	0.3	7490
Idle speed control	0.5	7495
Idle speed control	0.5	7505
Idle speed control	0.5	7510
Idle speed control	0.6	7515
Idle speed control	0.4	7516
Misfire at idle or under load.....	0.1	7520
Misfire at idle or under load.....	0.2	7525
Misfire at idle or under load.....	0.3	7530
Misfire at idle or under load.....	1.0	7535
Misfire at idle or under load.....	0.6	7540
Misfire at idle or under load.....	0.7	7545
Misfire at idle or under load.....	0.9	7550
Throttle position sensor.....	0.2	7555
Throttle position sensor.....	0.5	7560
Throttle position sensor.....	3.4	7565
Throttle position sensor.....	1.8	7570
Throttle position sensor.....	0.4	7575
Throttle position sensor.....	0.4	7580
Throttle position sensor.....	0.4	7585
Throttle position sensor.....	1.8	7590
Throttle position sensor.....	1.8	7595
Throttle position sensor.....	0.4	7605
Throttle position sensor.....	0.4	7610
Throttle position sensor.....	0.4	7615
Barometric pressure sensor.....	0.5	7620
Barometric pressure sensor.....	1.3	7625
Barometric pressure sensor.....	0.8	7630
Barometric pressure sensor.....	0.4	7635
Barometric pressure sensor.....	0.5	7640
Barometric pressure sensor.....	0.5	7645
Barometric pressure sensor.....	0.4	7650
Barometric pressure sensor.....	0.5	7655
Barometric pressure sensor.....	1.0	7946

FLTRI MODELS Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.	MODEL PREFIX & JOB TIMES (in hours)	LABOR CODE
JOB DESCRIPTION	FSW	
FUEL INJECTION SYSTEM (Cont'd)		
Engine temperature sensor	0.4	7660
Engine temperature sensor	1.4	7665
Engine temperature sensor	0.8	7670
Engine temperature sensor	0.5	7675
Engine temperature sensor	0.5	7680
Engine temperature sensor	0.5	7685
Engine temperature sensor	0.5	7690
Engine temperature sensor	0.4	7695
Engine temperature sensor	0.7	7705
Engine temperature sensor	0.5	7710
Intake air temperature sensor.....	0.6	7715
Intake air temperature sensor.....	3.9	7720
Intake air temperature sensor.....	2.1	7725
Intake air temperature sensor.....	0.6	7730
Intake air temperature sensor.....	0.4	7735
Intake air temperature sensor.....	0.4	7740
Intake air temperature sensor.....	0.6	7745
Intake air temperature sensor.....	0.5	7750
Intake air temperature sensor.....	0.6	7755
Intake air temperature sensor.....	2.1	7760
Battery voltage test**	0.7	7765
Battery voltage test**	0.8	7770
Battery voltage test**	0.8	7775
Battery voltage test**	1.1	7780
Fuel injectors	0.2	7785
Fuel injectors	0.3	7790
Fuel injectors	1.3	7795
Fuel injectors	0.5	7805
Fuel injectors	0.7	7810
Fuel injectors	0.4	7815
Fuel injectors	0.5	7820
Fuel injectors	0.5	7825
Fuel injectors	0.5	7830
Fuel injectors	0.5	7835
Fuel injectors	0.6	7840
Fuel injectors	0.4	7845
Fuel injectors	0.4	7850
Ignition coil test.....	0.3	7855
Ignition coil test.....	0.8	7856
Ignition coil test.....	0.4	7860
Ignition coil test.....	0.5	7865
Ignition coil test.....	0.3	7870
Ignition coil test.....	0.4	7875
Ignition coil test.....	0.2	7880

**Includes charging diagnostics

<p align="center">FLTRI MODELS</p> <p>Unless otherwise specified, Job Times shown include all operations necessary to complete the listed job.</p>	<p align="center">MODEL PREFIX & JOB TIMES (in hours)</p>	<p align="center">LABOR CODE</p>
<p align="center">JOB DESCRIPTION</p>	<p align="center">FSW</p>	
<p><i>FUEL INJECTION SYSTEM (Cont'd)</i></p>		
Fuel pump relay.....	0.4	7885
Fuel pump relay.....	0.7	7890
Fuel pump relay.....	0.5	7895
Fuel pump relay.....	0.2	7905
Fuel pump relay.....	0.4	7910
Tachometer	0.5	7881
Tachometer	0.5	7882
Tachometer	0.5	7883
Tachometer	0.5	7884
Tachometer	0.6	7886
Code-41:		
Crank position sensor.....	0.4	7980
Crank position sensor.....	1.0	7981
Crank position sensor.....	0.5	7982
Crank position sensor.....	1.2	7983
Crank position sensor.....	1.1	7984
Crank position sensor.....	1.2	7985
Crank position sensor.....	0.6	7986
Crank position sensor.....	0.6	7987
Crank position sensor.....	0.3	7988
Code-42:		
Cam position sensor.....	1.9	7941
Cam position sensor.....	0.4	7942
Cam position sensor.....	0.4	7943
Cam position sensor.....	0.4	7944
Cam position sensor.....	1.0	7946
Cam position sensor.....	0.3	7947
Cam position sensor.....	1.0	7948
Cam position sensor.....	1.2	7969
Code-44:		
Bank angle sensor	0.2	7971
Bank angle sensor	0.3	7972
Bank angle sensor	0.4	7973
Bank angle sensor	0.3	7974
Bank angle sensor	0.4	7975
Bank angle sensor	0.2	7976
Ignition module failure	0.2	7913