



DEALER COMMUNICATIONS

Harley-Davidson Motor Company

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<input type="checkbox"/> Vehicle Sales Manager	<input type="checkbox"/> HOG Director	<input type="checkbox"/>

July, 2002

Dear Dealer:

The enclosed 2003 Job Time/Code Manual provides the flat rate time allotments for service and repair of 2003 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.

Labor codes for the engine management system (EFI), turn signal/security system and instrument module portions of this document were determined using the Digital Technician system. Warranty claims should be filed using the same four-digit code (for labor and condition codes) that is displayed on the Digital Technician system at the end of the diagnostic procedure—not from the Service manual for these systems. Please also note that some systems (such as starter systems, charging systems and ignition systems) still require the use of the service diagnostic manuals to determine which codes (labor and condition) to use when filing your warranty claims.

Thank you for your cooperation in this effort. If additional copies of the Job Time/Code Manual are required, they can be ordered under 99997-03 through our Parts and Accessories Division.

Sincerely,

Dawn Zawacki
Warranty Specialist

Lynn Yunker
Warranty Specialist

Harley-Davidson Models

JOB TIME/CODE MANUAL

2003

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Binder 99998-88
Contents 99997-03

GENERAL INFORMATION

2003 MODEL PREFIX

2003 Model prefixes are listed at the bottom of the first page in each corresponding section. Use the following list to identify each model. Please note: these flat rates apply to 2003 model year vehicles only. They do not apply to any previous model year vehicles.

Section 1: Softail Models

BHY	FXST	BVB	FXST-I
BJY	FLSTC	BWB	FLSTC-I
BMY	FLSTF	BXB	FLSTF-I
BTY	FXSTB	JAB	FXSTB-I
BSY	FXSTD	JBB	FXSTD-I

BRY	FLSTS	BYB	FLSTS-I
BLY	FXSTS	BZB	FXSTS-I

Section 2: Sportster Models

CAP	XLH 1200	CHP	XLH 1200 SPORT
CAM	XLH 883	CKM	883R
CEM	XLH 883 HUGGER	CJM	XLH 883 CUSTOM
CGP	XLH 1200 CUSTOM		

Section 3: FLHT, FLHTC & FLHT-I Models

DDV	FLHT
DJV	FLHTC
FVW	FLHT-I

Section 4: FLHTC-I & FLHTCU-I Models

FFW	FLHTC-I
FKW	FLHTC-I SHRINE
FCW	FLHTCU-I
FLW	FLHTCU-I SHRINE
FGW	FLHTCU-I WITH SIDECAR (JAPAN ONLY)

Section 5: FL and Dyna Police Models

FMW	FLHTP-I (FUEL INJECTED W/FAIRING)
FHW	FLHP-I (FUEL INJECTED)
FTW	FLHPE-I (CA AND JAPAN)

GKV	FXDP
-----	------

Section 6: Dyna Models

GHV	SUPER GLIDE	GJV	FXDX DYNA SUPER GLIDE SPORT
GDV	FXDL DYNA LOW RIDER	GEV	FXDWG DYNA WIDE GLIDE
GLV	FXDXT DYNA TOURING		

Section 7: Road King Models

FRW	FLHRC-I
FBW	FLHR-I
FWW	FLHR-I SHRINE
FDV	FLHR

Section 8: Road Glide Models

FPV	FLTR
FSW	FLTRI

Section 9: VRSCA Model

HAZ	VRSCA
HAA	VRSCA (98 HP HDI)

Section 10: CVO Models

PGE	FLHRSEI ²
PFD	FXSTDE

Section 11: 12 Month PNA Warranty

CLAIM TYPE INFORMATION

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

CLAIM TYPE CODE	CATEGORY	DESCRIPTION
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

Date _____

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

Attention: Service Communications Dept.

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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P.O. Box 653
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Model & Year	Job Description	Job Time	Job/Code Number (if any)

Signed _____

Dealership _____

Address _____

City, State, Zip Code _____

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NOTES

2003 SOFTAIL MODELS

Table 1-1. Service

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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	---

Table 1-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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	0.8	0.8	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	1.1	1.1	2114
Replace rim, hub or spokes	front	2.3	2.3	---	2.3	2116
	rear	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		0.4	0.4	---	0.4	2156
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

All times listed in hours.

V.I.N. CODES

BHY	FXST	BVB	FXST-I
BJY	FLSTC	BWB	FLSTC-I
BMY	FLSTF	BXB	FLSTF-I
BTY	FXSTB	JAB	FXSTB-I
BSY	FXSTD	JBB	FXSTD-I

Table 1-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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	2366
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
BRAKES						
Replace hydraulic brake line – includes filling/bleeding brakes	front	0.4	0.4	0.4	0.4	2406
Replace brake pads	front	0.1	0.1	0.1	0.1	2416
	rear	0.3	0.3	0.3	0.3	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

Table 1-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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	1.1	1.0	1.0	1.0	2531
Replace rear fender support – one only		0.3	0.3	0.3	0.3	2536
Replace fuel tank assembly		0.9	0.9	0.9	0.9	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		---	0.5	---	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

Table 1-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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
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" over-size 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

Table 1-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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		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 or two same cylinder	1.3	1.3	1.3	1.3	3307
	both on both cylinders	1.6	1.6	1.6	1.6	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		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
CRANKCASE						
Replace crankcases	California vehicles only – includes remove and install engine	7.6	7.6	7.6	7.6	3406
Replace crankcases	includes remove and install engine	7.3	7.3	7.3	7.3	3406
Seal crankcase only		6.4	6.4	6.4	6.4	3407
Replace flywheels	includes remove and install engine	6.5	6.5	6.5	6.5	3411
Replace left or right side main bearing	California vehicles only	6.5	6.5	6.5	6.5	3412
Replace left or right side main bearing		6.4	6.4	6.4	6.4	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

Table 1-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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	Valid only on BJY, BHY, BTY, BMY, AND BSY models (carbureted)	0.4	0.4	0.4	0.4	3506
Replace induction module seal		0.7	0.7	0.7	0.7	3510
Replace intake manifold and/or gasket one or both	Valid only on BJY, BHY, BTY, BMY, AND BSY models (carbureted)	0.7	0.7	0.7	0.7	3511
Replace carburetor float valve or jet, or check float level or seal	Valid only on BJY, BHY, BTY, BMY, AND BSY models (carbureted)	0.5	0.5	0.5	0.5	3516
Replace accelerator pump		0.5	0.5	0.5	0.5	3521
Replace enrichener cable	Valid only on BJY, BHY, BTY, BMY, AND BSY models (carbureted)	0.4	0.4	0.4	0.4	3523
Replace carburetor diaphragm	Valid only on BJY, BHY, BTY, BMY, AND BSY models (carbureted)	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

Table 1-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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 main-shaft 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

Table 1-5. Transmission

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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

Table 1-5. Transmission

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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

Table 1-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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;		1.1	1.1	1.1	1.1	5850
Slow starter crank or starter stalls	poor starter to battery connections, ground connections,	0.2	0.2	0.2	0.2	5835

Table 1-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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
Starter inoperative	TSSM	0.4	0.4	0.4	0.4	6791
Starter inoperative	Connector	0.5	0.5	0.5	0.5	6792
Starter inoperative	Open	0.3	0.3	0.3	0.3	6793
Starter inoperative	Open	0.4	0.4	0.4	0.4	6805
Starter inoperative	Open	0.5	0.5	0.5	0.5	6806
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		0.4	0.4	0.4	0.4	6727
Diagnostic check		0.5	0.5	0.5	0.5	6728
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

Table 1-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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		0.4	0.4	0.4	0.4	6791
Turn signal error 3A		0.5	0.5	0.5	0.5	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		0.4	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
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		0.5	0.5	0.5	0.5	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		0.4	0.4	0.4	0.4	6831
Alarm output		0.4	0.4	0.4	0.4	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		0.4	0.4	0.4	0.4	6842
Accelerometer fault		0.4	0.4	0.4	0.4	6845
Loss of ECM serial data		0.2	0.2	0.2	0.2	6850

Table 1-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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
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
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	0.1	0.1	6043
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

Table 1-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY, BWB	BHY, BTY, BVB, JAB	BMY, BXB	BSY, JBB	
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

Table 1-7. Softail Accessories

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY	BHY, BTY	BMY	BSY	
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

Table 1-8. Electrical: Carbureted Only

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY	BHY, BTY	BMY	BSY	
IGNITION SYSTEM: CARBURETED MODELS ONLY						
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. 99482-03 and Electrical Diagnostic Manual, Part No. 99498-03.						
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

Table 1-8. Electrical: Carbureted Only

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BJY	BHY, BTY	BMV	BSY	
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
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

Table 1-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BWB	BVB, JAB	BXB	JBB	
FUEL INJECTED MODELS ONLY						
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. 99482-03 and Electrical Diagnostic Manual, Part No. 99498-03.						
Diagnostic Check		0.2	0.2	0.2	0.2	7110
Diagnostic Check		0.4	0.4	0.4	0.4	7115
Diagnostic Check		0.4	0.4	0.4	0.4	7120
Diagnostic Check		0.8	0.8	0.8	0.8	7125
Diagnostic Check		0.8	0.8	0.8	0.8	7126
No check engine lamp/No ECM Power		0.5	0.5	0.5	0.5	6013
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7130
No check engine lamp/No ECM Power		0.4	0.4	0.4	0.4	7133
No check engine lamp/No ECM Power		0.4	0.4	0.4	0.4	7141
No check engine lamp/No ECM Power		0.1	0.1	0.1	0.1	7142
No check engine lamp/No ECM Power		0.5	0.5	0.5	0.5	7143
No check engine lamp/No ECM Power		0.4	0.4	0.4	0.4	7146
No check engine lamp/No ECM Power		0.5	0.5	0.5	0.5	7270
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7285
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7286
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7287
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7288
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7289
No check engine lamp/No ECM Power		0.4	0.4	0.4	0.4	7290
No check engine lamp/No ECM Power		1.4	1.4	1.4	1.4	7295
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7301
No check engine lamp/No ECM Power		0.1	0.1	0.1	0.1	7302
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7303
No check engine lamp/No ECM Power		0.4	0.4	0.4	0.4	7304
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7305
No check engine lamp/No ECM Power		0.5	0.5	0.5	0.5	7306
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7307
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7308
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7309
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7310
No check engine lamp/No ECM Power		0.3	0.3	0.3	0.3	7320
Check engine lamp on continuously		0.2	0.2	0.2	0.3	7148
Check engine lamp on continuously		0.7	0.7	0.7	0.7	7150
Check engine lamp on continuously		0.3	0.3	0.3	0.4	7155
Check engine lamp on continuously		0.2	0.2	0.2	0.2	7156
Check engine lamp on continuously		0.1	0.1	0.1	0.1	7157
Engine cranks but will not start		0.6	0.6	0.6	0.6	7185
Engine cranks but will not start		0.5	0.5	0.5	0.5	7195
Engine cranks but will not start		0.5	0.5	0.5	0.5	7210
Engine cranks but will not start		0.4	0.4	0.4	0.4	7215
Engine cranks but will not start		0.5	0.5	0.5	0.5	7223
Engine cranks but will not start		0.4	0.4	0.4	0.4	7224

Table 1-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BWB	BVB, JAB	BXB	JBB	
Engine cranks but will not start		0.5	0.5	0.5	0.5	7225
Engine cranks but will not start		0.8	0.8	0.8	0.8	7226
Engine cranks but will not start		0.7	0.7	0.7	0.7	7227
Engine cranks but will not start		0.5	0.5	0.5	0.5	7228
Engine cranks but will not start		0.5	0.5	0.5	0.5	7230
Engine cranks but will not start		0.6	0.6	0.6	0.6	7231
Engine cranks but will not start		0.5	0.5	0.5	0.5	7235
Engine cranks but will not start		0.9	0.9	0.9	0.9	7251
Fuel system electrical test		0.2	0.2	0.2	0.2	7335
Fuel system electrical test		0.7	0.7	0.7	0.7	7336
Engine cranks but will not start; Fuel system electrical test		0.6	0.6	0.6	0.6	7340
Engine cranks but will not start; Fuel system electrical test		0.5	0.5	0.5	0.5	7355
Fuel system electrical test		0.3	0.3	0.3	0.3	7360
Fuel system electrical test		0.8	0.8	0.8	0.8	7370
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	0.4	7380
Fuel system electrical test		0.3	0.3	0.3	0.3	7385
Engine cranks but will not start; Fuel system electrical test		0.9	0.9	0.9	0.9	7415
Fuel system electrical test		0.3	0.3	0.3	0.3	7440
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	0.4	7441
Fuel system electrical test		0.2	0.2	0.2	0.2	7445
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	0.4	7450
Engine cranks but will not start; Fuel system electrical test		0.7	0.7	0.7	1.0	7992
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	0.4	7520
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		0.6	0.6	0.6	0.6	7993
Starts, then stalls		0.3	0.3	0.3	0.3	7994
Starts, then stalls		0.3	0.3	0.3	0.3	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
Starts, then stalls; no DTCs		0.4	0.4	0.4	0.4	7127
Starts, then stalls; no DTCs		0.3	0.3	0.3	0.3	7128
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		0.4	0.4	0.4	0.4	7544

Table 1-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BWB	BVB, JAB	BXB	JBB	
Combustion absent		0.2	0.2	0.2	0.2	7546
Combustion absent		0.4	0.4	0.4	0.4	7547
Combustion absent		0.1	0.1	0.1	0.1	7548
Combustion absent		0.1	0.1	0.1	0.1	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		0.5	0.5	0.5	0.5	7490
Idle air control		0.5	0.5	0.5	0.5	7495
Idle air control		0.6	0.6	0.6	0.6	7505
Idle air control		0.5	0.5	0.5	0.5	7510
Idle air control		0.4	0.4	0.4	0.4	7515
Idle air control		0.6	0.6	0.6	0.6	7516
Misfire at idle or under load		0.4	0.4	0.4	0.4	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
Misfire at idle or under load		0.3	0.3	0.3	0.3	7134
Misfire at idle or under load		0.3	0.3	0.3	0.3	7136
Misfire at idle or under load		0.6	0.6	0.6	0.6	7137
Misfire at idle or under load		0.7	0.7	0.7	0.7	7138
Misfire at idle or under load		0.6	0.6	0.6	0.6	7139
Misfire at idle or under load		0.9	0.9	0.9	1.1	7144
Misfire at idle or under load		0.5	0.5	0.5	0.5	7147
Misfire at idle or under load		0.9	0.9	0.9	0.9	7149
Misfire at idle or under load		0.6	0.6	0.6	0.6	7152
Rough or rolling idle		0.3	0.3	0.3	0.3	7134
Rough or rolling idle		0.3	0.3	0.3	0.3	7136
Rough or rolling idle		0.6	0.6	0.6	0.6	7137
Rough or rolling idle		0.7	0.7	0.7	0.7	7138
Rough or rolling idle		0.6	0.6	0.6	0.6	7139
Rough or rolling idle		0.9	0.9	0.9	1.1	7144
Rough or rolling idle		0.5	0.5	0.5	0.5	7147
Rough or rolling idle		0.9	0.9	0.9	0.9	7149
Rough or rolling idle		0.6	0.6	0.6	0.6	7152
Emits black smoke		2.0	2.0	2.0	2.2	7596
Emits black smoke		2.0	2.0	2.0	2.2	7597
Emits black smoke		2.0	2.0	2.0	2.2	7598
Emits black smoke		2.2	2.2	2.2	2.4	7601
Throttle position sensor		0.5	0.5	0.5	0.5	7555
Throttle position sensor		0.5	0.5	0.5	0.5	7560
Throttle position sensor		0.6	0.6	0.6	0.6	7565
Throttle position sensor		0.4	0.4	0.4	0.4	7570

Table 1-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BWB	BVB, JAB	BXB	JBB	
Throttle position sensor		0.5	0.5	0.5	0.5	7575
Throttle position sensor		0.5	0.5	0.5	0.5	7580
Throttle position sensor		0.5	0.5	0.5	0.5	7585
Throttle position sensor		0.7	0.7	0.7	0.7	7590
Throttle position sensor		0.3	0.3	0.3	0.3	7595
Throttle position sensor		0.7	0.7	0.7	0.7	7605
Throttle position sensor		0.5	0.5	0.5	0.5	7610
Throttle position sensor		0.8	0.8	0.8	0.8	7615
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		0.6	0.6	0.6	0.6	7635
MAP sensor		0.6	0.6	0.6	0.6	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		0.6	0.6	0.6	0.6	7645
MAP sensor		0.6	0.6	0.6	0.6	7650
MAP sensor		0.7	0.7	0.7	0.7	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		0.4	0.4	0.4	0.4	7680
Engine temperature sensor		0.4	0.4	0.4	0.4	7685
Engine temperature sensor		0.3	0.3	0.3	0.5	7690
Engine temperature sensor		0.5	0.5	0.5	0.5	7695
Engine temperature sensor		0.5	0.5	0.5	0.5	7705
Engine temperature sensor		0.4	0.4	0.4	0.4	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		0.3	0.3	0.3	0.3	7725
Intake air temperature sensor		0.5	0.5	0.5	0.5	7730
Intake air temperature sensor		0.5	0.5	0.5	0.3	7735
Intake air temperature sensor		0.7	0.7	0.7	0.7	7740
Intake air temperature sensor		0.4	0.4	0.4	0.4	7745
Intake air temperature sensor		0.6	0.6	0.6	0.6	7750
Intake air temperature sensor		0.4	0.4	0.4	0.4	7755
Intake air temperature sensor		0.5	0.5	0.5	0.5	7760
Battery voltage test		0.4	0.4	0.4	0.4	7770
Battery voltage test		0.3	0.3	0.3	0.3	7775
Battery voltage test		0.3	0.3	0.3	0.3	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

Table 1-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BWB	BVB, JAB	BXB	JBB	
Fuel injectors		0.1	0.1	0.1	0.1	7785
Fuel injectors		0.6	0.6	0.6	0.6	7790
Fuel injectors		0.7	0.7	0.7	0.7	7795
Fuel injectors		0.6	0.6	0.6	0.6	7805
Fuel injectors		0.6	0.6	0.6	0.7	7808
Fuel injectors		0.5	0.5	0.5	0.5	7809
Fuel injectors		0.6	0.6	0.6	0.6	7815
Fuel injectors		0.6	0.6	0.6	0.8	7820
Fuel injectors		0.7	0.7	0.7	0.7	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		0.7	0.7	0.7	0.7	7850
System relay		0.2	0.2	0.2	0.2	7887
System relay		0.3	0.3	0.3	0.3	7888
System relay		0.4	0.4	0.4	0.4	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		0.4	0.4	0.4	0.4	7901
System relay		0.4	0.4	0.4	0.4	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		0.4	0.4	0.4	0.4	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		0.3	0.3	0.3	0.3	7911
System relay		0.4	0.4	0.4	0.4	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		0.4	0.4	0.4	0.4	7860
Ignition coil test		0.3	0.3	0.3	0.3	7865
Ignition coil test		0.5	0.5	0.5	0.5	7870
Ignition coil test		0.4	0.4	0.4	0.4	7875
Ignition coil test		0.2	0.2	0.2	0.2	7880
Crank position sensor		0.5	0.5	0.5	0.5	7980
Crank position sensor		0.4	0.4	0.4	0.4	7981
Crank position sensor		0.3	0.3	0.3	0.3	7982
Crank position sensor		0.5	0.5	0.5	0.5	7983
Crank position sensor		0.2	0.2	0.2	0.2	7984
Crank position sensor		0.4	0.4	0.4	0.4	7985
Crank position sensor		0.5	0.5	0.5	0.5	7986
Crank position sensor		0.3	0.3	0.3	0.4	7987
ECM failure		0.3	0.3	0.3	0.3	7913
Vehicle speed signal		0.4	0.4	0.4	0.4	7954

Table 1-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		BWB	BVB, JAB	BXB	JBB	
Vehicle speed signal		0.4	0.4	0.4	0.4	7956
Vehicle speed signal		0.5	0.5	0.5	0.5	7957
Vehicle speed signal		0.3	0.3	0.3	0.3	7958
Vehicle speed signal		0.4	0.4	0.4	0.4	7959
Vehicle speed signal		0.3	0.3	0.3	0.3	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		0.4	0.4	0.4	0.4	6701
Password problem		0.4	0.4	0.4	0.4	6702
Password problem		0.6	0.6	0.6	0.6	6703
Password problem		0.4	0.4	0.4	0.4	6704
Password problem		0.5	0.5	0.5	0.5	6705
Password problem		0.3	0.3	0.3	0.3	6706
Password problem		0.6	0.6	0.6	0.6	6707
Password problem		0.8	0.8	0.8	0.8	6708
Loss of TSM/TSSM serial data		0.4	0.4	0.4	0.4	6715
Loss of TSM/TSSM serial data		0.6	0.6	0.6	0.6	6716
Loss of TSM/TSSM serial data		0.6	0.6	0.6	0.6	6717
Loss of TSM/TSSM serial data		0.5	0.5	0.5	0.5	6718
Loss of TSM/TSSM serial data		0.4	0.4	0.4	0.4	6719

2003 SPRINGER SOFTAIL MODELS

Table 1-10. Service

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
NEW				
Set-up and pre-delivery		2.1	2.1	---
500 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	---

Table 1-11. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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
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 cable	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

All times listed in hours.

V.I.N. CODES

BRY	FLSTS	BYB	FLSTS-I
BLY	FXSTS	BZB	FXSTS-I

Table 1-11. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
Replace handlebar riser	one	0.2	0.2	2253
Replace handlebar clamp	one or both	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	2306
Replace top fork clamp		0.3	0.3	2309
Replace fork lock		1.1	1.1	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	0.3	0.3	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

Table 1-11. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
SEATS/FENDERS/TANKS				
Replace seat only		0.2	0.1	2506
Replace fender	front	0.7	0.3	2526
	rear	1.0	1.0	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 license plate bracket		----	0.5	
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

Table 1-12. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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
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

Table 1-12. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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
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	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 or two same cylinder	1.3	1.3	3307
	both on both cylinders	1.6	1.6	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	3325
Replace primary cam chain, sprockets and/or fastener		1.0	1.0	3327
Replace primary cam chain tensioner		1.0	1.0	3328
Replace cam support plate O-rings		2.1	2.1	3335
Replace cam support plate		2.1	2.1	3337

Table 1-12. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
Replace cam support bearing/cams/secondary cam chain/tensioner		2.3	2.3	3338
Replace oil pump and/or O-rings		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	3354
CRANKCASE				
Replace crankcases – California vehicles only	includes remove and install engine	7.6	7.6	3406
Replace crankcases	includes remove and install engine	7.3	7.3	3406
Seal crankcase only		6.4	6.4	3407
Replace flywheels	includes remove and install engine	6.5	6.5	3411
Replace left or right side main bearing	California vehicles only	6.5	6.5	3412
Replace left or right side main bearing		6.4	6.4	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	IMPORTANT NOTE: Valid only on BRY and BLY models (carbureted)	0.4	0.4	3506
Replace induction module seal		0.7	0.7	3510
Replace intake manifold and/or gasket	one or both, IMPORTANT NOTE: Valid only on BRY and BLY models (carbureted)	0.7	0.7	3511
Replace carburetor float valve or jet, or check float level or seal	IMPORTANT NOTE: Valid only on BRY and BLY models (carbureted)	0.5	0.5	3516
Replace accelerator pump		0.5	0.5	3521

Table 1-12. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
Replace enrichener cable	IMPORTANT NOTE: Valid only on BRY and BLY models (carbureted)	0.4	0.4	3523
Replace carburetor diaphragm	IMPORTANT NOTE: Valid only on BRY and BLY models (carbureted)	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

Table 1-13. Drive and Clutch

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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

Table 1-14. Transmission

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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

Table 1-14. Transmission

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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

Table 1-15. Electrical: All Models

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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
Starter spins, but does not engage; jackshaft		1.1	1.1	5850
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

Table 1-15. Electrical: All Models

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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
Starter inoperative	TSSM	0.4	0.4	6791
Starter inoperative	Connector	0.5	0.5	6792
Starter inoperative	Open	0.3	0.3	6793
Starter inoperative	Open	0.4	0.4	6805
Starter inoperative	Open	0.5	0.5	6806
TURN SIGNALS/SECURITY SYSTEM				
Diagnostic check		0.3	0.3	6725
Diagnostic check		0.4	0.4	6726
Diagnostic check		0.4	0.4	6727
Diagnostic check		0.5	0.5	6728
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

Table 1-15. Electrical: All Models

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
Turn signal error 3A		0.4	0.4	6791
Turn signal error 3A		0.5	0.5	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		0.4	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
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		0.5	0.5	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		0.4	0.4	6831
Alarm output		0.4	0.4	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		0.4	0.4	6842
Accelerometer fault		0.4	0.4	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

Table 1-15. Electrical: All Models

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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 speedometer	inoperable	0.2	0.2	6020
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
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	6043
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

Table 1-15. Electrical: All Models

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
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

Table 1-16. Springer Softail Accessories

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY, BYB	BLY, BZB	
ACCESSORIES				
Replace tank trim		0.1	0.1	6507
Replace mirror		0.1	0.1	6513
Replace one saddlebag		0.1	---	6518
Replace one saddlebag bracket		0.2	---	6519

Table 1-17. Electrical: Carbureted Models

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY	BLY	
CARBURETED MODELS ONLY				
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. 99482-03 and Electrical Diagnostics Manual, Part No. 99498-03.				
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

Table 1-17. Electrical: Carbureted Models

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY	BLY	
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	0.6	0.6	7195
	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
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

Table 1-17. Electrical: Carbureted Models

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BRY	BLY	
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

Table 1-18. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BYB	BZB	
FUEL INJECTED MODELS ONLY				
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. 99482-03 and Electrical Diagnostics Manual, Part No. 99498-03.				
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/No ECM Power		0.5	0.5	6013
No check engine lamp/No ECM Power		0.6	0.6	7130
No check engine lamp/No ECM Power		0.4	0.4	7133
No check engine lamp/No ECM Power		0.4	0.4	7141
No check engine lamp/No ECM Power		0.1	0.1	7142
No check engine lamp/No ECM Power		0.5	0.5	7143
No check engine lamp/No ECM Power		0.4	0.4	7146
No check engine lamp/No ECM Power		0.5	0.5	7270
No check engine lamp/No ECM Power		0.6	0.6	7285
No check engine lamp/No ECM Power		0.7	0.7	7286

Table 1-18. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BYB	BZB	
No check engine lamp/No ECM Power		0.7	0.7	7287
No check engine lamp/No ECM Power		0.7	0.7	7288
No check engine lamp/No ECM Power		0.7	0.7	7289
No check engine lamp/No ECM Power		0.4	0.4	7290
No check engine lamp/No ECM Power		1.4	1.4	7295
No check engine lamp/No ECM Power		0.6	0.6	7301
No check engine lamp/No ECM Power		0.1	0.1	7302
No check engine lamp/No ECM Power		0.7	0.7	7303
No check engine lamp/No ECM Power		0.4	0.4	7304
No check engine lamp/No ECM Power		0.6	0.6	7305
No check engine lamp/No ECM Power		0.5	0.5	7306
No check engine lamp/No ECM Power		0.7	0.7	7307
No check engine lamp/No ECM Power		0.6	0.6	7308
No check engine lamp/No ECM Power		0.6	0.6	7309
No check engine lamp/No ECM Power		0.6	0.6	7310
No check engine lamp/No ECM Power		0.3	0.3	7320
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		0.6	0.6	7185
Engine cranks but will not start		0.5	0.5	7195
Engine cranks but will not start		0.5	0.5	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		0.8	0.8	7226
Engine cranks but will not start		0.7	0.7	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
Fuel system electrical test		0.2	0.2	7335
Fuel system electrical test		0.7	0.7	7336
Engine cranks but will not start; Fuel system electrical test		0.6	0.6	7340
Engine cranks but will not start; Fuel system electrical test		0.5	0.5	7355
Fuel system electrical test		0.3	0.3	7360
Fuel system electrical test		0.8	0.8	7370
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	7380
Fuel system electrical test		0.3	0.3	7385
Engine cranks but will not start; Fuel system electrical test		0.9	0.9	7415

Table 1-18. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BYB	BZB	
Fuel system electrical test		0.3	0.3	7440
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	7441
Fuel system electrical test		0.2	0.2	7445
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	7450
Engine cranks but will not start; Fuel system electrical test		0.7	0.7	7992
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	7520
Starts, then stalls		0.7	0.7	7992
Starts, then stalls		0.6	0.6	7993
Starts, then stalls		0.3	0.3	7994
Starts, then stalls		0.3	0.3	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
Starts, then stalls; no DTCs		0.4	0.4	7127
Starts, then stalls; no DTCs		0.3	0.3	7128
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		0.4	0.4	7544
Combustion absent		0.2	0.2	7546
Combustion absent		0.4	0.4	7547
Combustion absent		0.1	0.1	7548
Combustion absent		0.1	0.1	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		0.5	0.5	7490
Idle air control		0.5	0.5	7495
Idle air control		0.6	0.6	7505
Idle air control		0.5	0.5	7510
Idle air control		0.4	0.4	7515
Idle air control		0.6	0.6	7516
Misfire at idle or under load		0.4	0.4	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
Misfire at idle or under load		0.3	0.3	7134
Misfire at idle or under load		0.3	0.3	7136

Table 1-18. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BYB	BZB	
Misfire at idle or under load		0.6	0.6	7137
Misfire at idle or under load		0.7	0.7	7138
Misfire at idle or under load		0.6	0.6	7139
Misfire at idle or under load		0.9	0.9	7144
Misfire at idle or under load		0.5	0.5	7147
Misfire at idle or under load		0.9	0.9	7149
Misfire at idle or under load		0.6	0.6	7152
Rough or rolling idle		0.3	0.3	7134
Rough or rolling idle		0.3	0.3	7136
Rough or rolling idle		0.6	0.6	7137
Rough or rolling idle		0.7	0.7	7138
Rough or rolling idle		0.6	0.6	7139
Rough or rolling idle		0.9	0.9	7144
Rough or rolling idle		0.5	0.5	7147
Rough or rolling idle		0.9	0.9	7149
Rough or rolling idle		0.6	0.6	7152
Emits black smoke		2.0	2.0	7596
Emits black smoke		2.0	2.0	7597
Emits black smoke		2.0	2.0	7598
Emits black smoke		2.2	2.2	7601
Throttle position sensor		0.5	0.5	7555
Throttle position sensor		0.5	0.5	7560
Throttle position sensor		0.6	0.6	7565
Throttle position sensor		0.4	0.4	7570
Throttle position sensor		0.5	0.5	7575
Throttle position sensor		0.5	0.5	7580
Throttle position sensor		0.5	0.5	7585
Throttle position sensor		0.7	0.7	7590
Throttle position sensor		0.3	0.3	7595
Throttle position sensor		0.7	0.7	7605
Throttle position sensor		0.5	0.5	7610
Throttle position sensor		0.8	0.8	7615
MAP sensor		0.8	0.8	7620
MAP sensor		1.2	1.2	7625
MAP sensor		0.3	0.3	7630
MAP sensor		0.6	0.6	7635
MAP sensor		0.6	0.6	7640
MAP sensor		0.6	0.6	7641
MAP sensor		0.5	0.5	7642
MAP sensor		0.6	0.6	7645
MAP sensor		0.6	0.6	7650
MAP sensor		0.7	0.7	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		0.4	0.4	7680

Table 1-18. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BYB	BZB	
Engine temperature sensor		0.4	0.4	7685
Engine temperature sensor		0.3	0.3	7690
Engine temperature sensor		0.5	0.5	7695
Engine temperature sensor		0.3	0.3	7705
Engine temperature sensor		0.4	0.4	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
Fuel injectors		0.1	0.1	7785
Fuel injectors		0.6	0.6	7790
Fuel injectors		0.7	0.7	7795
Fuel injectors		0.6	0.6	7805
Fuel injectors		0.6	0.6	7808
Fuel injectors		0.5	0.5	7809
Fuel injectors		0.6	0.6	7815
Fuel injectors		0.6	0.6	7820
Fuel injectors		0.7	0.7	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		0.7	0.7	7850
System relay		0.2	0.2	7887
System relay		0.3	0.3	7888
System relay		0.4	0.4	7889
System relay		0.3	0.3	7899
System relay		0.3	0.3	7900
System relay		0.4	0.4	7901
System relay		0.4	0.4	7902
System relay		0.3	0.3	7903
System relay		0.2	0.2	7904

Table 1-18. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		BYB	BZB	
System relay		0.4	0.4	7906
System relay		0.7	0.7	7907
System relay		0.3	0.3	7908
System relay		0.2	0.2	7909
System relay		0.3	0.3	7911
System relay		0.4	0.4	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		0.4	0.4	7860
Ignition coil test		0.3	0.3	7865
Ignition coil test		0.5	0.5	7870
Ignition coil test		0.4	0.4	7875
Ignition coil test		0.2	0.2	7880
Crank position sensor		0.5	0.5	7980
Crank position sensor		0.4	0.4	7981
Crank position sensor		0.3	0.3	7982
Crank position sensor		0.5	0.5	7983
Crank position sensor		0.2	0.2	7984
Crank position sensor		0.4	0.4	7985
Crank position sensor		0.5	0.5	7986
Crank position sensor		0.4	0.4	7987
ECM failure		0.3	0.3	7913
Vehicle speed signal		0.4	0.4	7954
Vehicle speed signal		0.4	0.4	7956
Vehicle speed signal		0.5	0.5	7957
Vehicle speed signal		0.3	0.3	7958
Vehicle speed signal		0.4	0.4	7959
Vehicle speed signal		0.3	0.3	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		0.4	0.4	6701
Password problem		0.4	0.4	6702
Password problem		0.6	0.6	6703
Password problem		0.4	0.4	6704
Password problem		0.5	0.5	6705
Password problem		0.3	0.3	6706
Password problem		0.6	0.6	6707
Password problem		0.8	0.8	6708
Loss of TSM / TSSM serial data		0.4	0.4	6715
Loss of TSM / TSSM serial data		0.6	0.6	6716
Loss of TSM / TSSM serial data		0.6	0.6	6717
Loss of TSM / TSSM serial data		0.5	0.5	6718
Loss of TSM / TSSM serial data		0.4	0.4	6719

2003 SPORTSTER MODELS

Table 2-1. Service

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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	---

Table 2-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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

All times listed in hours.

V.I.N. CODES

CAP	XLH 1200	CHP	XLH 1200 SPORT
CAM	XLH 883	CKM	883R
CEM	XLH 883 HUGGER	CJM	XLH 883 CUSTOM
CGP	XLH 1200 CUSTOM		

Table 2-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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
FRAME/SWING ARM/FRONT FORK						
Replace frame – includes removal and installation of all accessories and motor-cycle 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
	front (CKM only)	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	0.3	0.3	0.3	0.3	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

Table 2-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
Replace brake disc	front	0.3	0.3	0.3	0.3	2436
	both	---	---	---	0.4	2437
	both (CKM only)	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
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

Table 2-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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
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

Table 2-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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
Seal crankcase only		10.5	10.5	10.5	10.5	3407
Replace left main bearing		10.6	10.6	10.6	10.6	3410
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
Replace piston rings	both cylinders removed (for non-related repairs)	0.7	0.7	0.7	0.7	3428
Replace piston and rings – includes over-sizing	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

Table 2-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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

Table 2-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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 shift lever		0.1	0.1	0.1	0.1	4012
Replace clutch cable		0.2	0.2	0.2	0.2	4013
Replace shifter seal		0.1	0.1	0.1	0.1	4015

Table 2-5. Transmission

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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 crank-case)		0.9	0.9	0.9	0.9	4311

Table 2-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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

Table 2-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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
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
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

Table 2-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	0.1	0.1	6043
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

Table 2-6. Electrical: All Models

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
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
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

Table 2-7. Sportster Accessories

ITEM	DESCRIPTION	MODELS				LABOR CODE
		CAM, CEM, CKM	CGP, CJM	CAP	CHP	
ACCESSORIES						
Replace mirror		0.1	0.1	0.1	0.1	6513

Table 2-8. 1200S Ignition Codes

ITEM	DESCRIPTION	MODEL	LABOR CODE
		CHP	
1200S MODELS ONLY			
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 Sportster Service Manual, Part No. 99484-03.			
Diagnostic check		0.1	7110
Diagnostic check		0.3	7115
Diagnostic check		0.4	7120
Diagnostic check		0.3	7125
Chart A-1	No check engine lamp	0.3	7130
	No check engine lamp	0.4	7135
	No check engine lamp	0.3	7143
	No check engine lamp	0.4	7145
Chart A-2	Check engine lamp on continuously	0.4	7148
	Check engine lamp on continuously	0.4	7150
	Check engine lamp on continuously	0.5	7160
	Check engine lamp on continuously	0.5	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	0.5	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	0.4	7226
	Engine cranks but will not start	0.4	7227
	Engine cranks but will not start	0.4	7228
	Engine cranks but will not start	0.6	7240
	Engine cranks but will not start	0.6	7241
	Engine cranks but will not start	0.6	7245
	Engine cranks but will not start	0.4	7250
	Engine cranks but will not start	1.3	7255
	Engine cranks but will not start	0.7	7260
	Engine cranks but will not start	1.3	7265
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	0.2	7310
Chart C	Misfire	0.1	7520
	Misfire	0.1	7525
	Misfire	0.2	7535
	Misfire	0.5	7540
	Misfire	1.2	7541

Table 2-8. 1200S Ignition Codes

ITEM	DESCRIPTION	MODEL	LABOR CODE
		CHP	
Code-12	Map sensor	0.2	7620
	Map sensor	0.6	7625
	Map sensor	0.3	7630
	Map sensor	0.4	7635
	Map sensor	0.4	7640
	Map sensor	0.4	7645
	Map sensor	0.3	7650
	Map sensor	0.5	7655
	Map sensor	0.4	7641
	Map sensor	0.4	7642
Code-16	Battery voltage test	0.3	7770
	Battery voltage test	0.4	7775
	Battery voltage test	0.4	7776
	Battery voltage test	0.4	7780
	Battery voltage test	0.9	7781
	Battery voltage test	0.3	7782
	Battery voltage test	0.8	7783
	Battery voltage test	0.5	7784
	Battery voltage test	0.3	7779
Code-24 & 25	Ignition coil	0.4	7855
	Ignition coil	0.3	7856
	Ignition coil	0.4	7860
	Ignition coil	0.5	7865
	Ignition coil	0.4	7870
	Ignition coil	0.3	7875
Code-35	Tachometer	0.4	7881
	Tachometer	0.4	7882
	Tachometer	0.4	7883
	Tachometer	0.4	7884
	Tachometer	0.4	7886
Code-44	Bank angle sensor	0.1	7971
	Bank angle sensor	0.3	7972
	Bank angle sensor	0.4	7973
	Bank angle sensor	0.3	7974
	Bank angle sensor	0.2	7976
	Bank angle sensor	0.3	7975
Codes-52, 53, 54, and 55	Ignition module failure	0.2	7913

2003 FLHT, FLHTC & FLHT-I MODELS

Table 3-1. Service

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
NEW					
Set-up and pre-delivery		2.5	2.5	2.5	---
1,000 mile service		3.4	3.4	3.4	---
REGULAR					
2,500 mile maintenance		0.7	0.7	0.7	---
5,000 mile maintenance		1.8	1.8	1.8	---
7,500 mile maintenance		0.7	0.7	0.7	---
10,000 mile maintenance		3.5	3.5	3.5	---
20,000 mile maintenance		6.6	6.6	6.4	---
25,000 mile maintenance		1.8	1.8	2.3	---
50,000 mile maintenance		6.0	6.0	6.5	---

Table 3-2. Chassis

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
DRIVE					
Adjust secondary belt		0.2	0.2	0.2	---
Replace secondary belt		3.7	3.7	3.7	2011
Replace rear wheel sprocket		0.9	0.9	0.9	2021
WHEELS					
Replace tire – includes balancing	front	0.6	0.6	0.6	2106
	rear	0.8	0.8	0.8	2111
Replace wheel assembly – includes disc and sprocket exchange and balancing	front	0.8	0.8	0.8	2113
	rear	1.3	1.3	1.3	2114
Replace rim, hub or spokes	front	2.2	2.2	2.2	2116
	rear	2.4	2.4	2.4	2121
Replace wheel bearings	front	0.6	0.6	0.6	2136
	rear	0.8	0.8	0.8	2141
True spoked wheel (wheel on vehicle)		0.4	0.4	0.4	2156
True laced wheel-includes r/r wheel & tire and time to rebalance	front	1.0	1.0	1.0	2157
	rear	1.2	1.2	1.2	2158
HANDLEBARS					
Replace handlebars	includes removing radio on FLHTC	1.2	1.2	1.2	2206
Replace clutch hand lever		0.2	0.2	0.2	2221

All times listed in hours.

V.I.N. CODES

DDV	FLHT
DJV	FLHTC
FVW	FLHT-I

Table 3-2. Chassis

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FWW	
Replace clutch hand lever bracket		0.2	0.2	0.2	2226
Replace throttle control		0.4	0.4	0.4	2231
Replace and adjust throttle control cables	one or both	0.6	0.6	0.6	2241
Replace both rubber handlebar mounts	includes removing radio on FLHTC	1.0	1.0	1.0	2246
Replace rubber handlebar grip		0.2	0.2	0.2	2251
Replace handlebar riser	one or both – includes loosening radio on FLHTC	1.0	1.0	1.0	2253
Replace handlebar clamp	one or both – includes removing radio on FLHTC	0.8	0.8	0.8	2254
FRAME/SWING ARM/FRONT FORK					
Adjust steering head bearings		0.7	0.7	0.7	---
Change front fork oil	both sides	2.9	2.9	2.9	---
Replace frame	includes removal and installation of all accessories and motorcycle components	17.0	17.2	17.0	2306
Replace front fork assembly	includes removal and installation of upper and lower fork brackets	3.0	3.0	3.0	2311
Replace lower fork bracket and stem		3.2	3.2	3.2	2316
Replace steering head cups and bearings	including bearing adjustment	3.2	3.2	3.2	2321
Replace upper fork bracket		2.7	2.7	2.7	2326
Replace complete lock set		0.3	0.4	0.3	2333
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation	both sides	2.9	2.9	2.9	2342
	right side	2.4	2.4	2.4	2343
	left side	2.7	2.7	2.7	2344
Replace fork side	one side	1.2	1.2	1.2	2346
	both sides	1.5	1.5	1.5	2351
Replace fork tube	right side	1.9	1.9	1.9	2357
	left side	2.7	2.7	2.7	2358
	both sides	2.9	2.9	2.9	2361
Replace rear swing arm and/or bearings		1.9	1.9	1.9	2366
Replace rear fork pivot shaft		1.0	1.0	1.0	2368
Replace rear shock air line		0.2	0.2	0.2	2369
Replace rear shock absorber assembly	one side	0.3	0.3	0.3	2371
	both sides	0.6	0.6	0.6	2376
Replace rear shock absorber component(s)	one side	0.5	0.5	0.5	2381
	both sides	0.8	0.8	0.8	2386
Replace jiffy stand	complete	0.3	0.3	0.3	2391
	spring and/or stand	0.2	0.2	0.2	2396
	rubber bumper	0.1	0.1	0.1	2399
Replace footboard		0.2	0.2	0.2	2394
Replace motor rubber mount	rear right	0.5	0.5	0.5	2395
	rear left	0.3	0.3	0.3	2397
	front	0.4	0.4	0.4	2398
BRAKES					
Replace hydraulic brake line – includes filling/bleeding brakes	front	1.0	1.0	1.0	2406
	rear	0.4	0.4	0.4	2411

Table 3-2. Chassis

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
Replace rear master cylinder reservoir hose and/or hose		0.2	0.2	0.2	2414
Replace brake pads	front – each caliper	0.1	0.1	0.1	2416
	rear	0.3	0.3	0.3	2421
Replace brake caliper – includes filling/bleeding brakes	front – each caliper	0.4	0.4	0.4	2426
	rear	1.0	1.0	1.0	2431
Replace brake disc	front – one side	0.3	0.3	0.3	2436
	both sides	0.4	0.4	0.4	2437
	rear	1.0	1.0	1.0	2441
Bleed brake caliper – one or two front calipers or rear caliper		0.2	0.2	0.2	2446
Overhaul brake caliper – includes filling/bleeding brakes	front – each caliper	0.6	0.6	0.6	2451
	rear	1.3	1.3	1.3	2456
Replace master cylinder assembly – includes filling/bleeding brakes	front	0.4	0.4	0.4	2461
	rear	0.5	0.5	0.5	2466
Rebuild master cylinder assembly – includes filling/bleeding brakes	front	0.6	0.6	0.6	2471
	rear	0.7	0.7	0.7	2476
Replace rear brake pedal		0.3	0.3	0.3	2492
Replace front brake lever		0.1	0.1	0.1	2494
SEATS/FENDERS/TANKS					
Replace seat		0.1	0.1	0.1	2506
Replace seat handrail		0.2	0.2	0.2	2508
Replace fender	front	1.0	1.0	1.0	2526
	rear	1.2	1.4	1.2	2531
Replace rear fender support		0.1	0.1	0.1	2536
Replace fuel tank assembly		0.9	0.9	1.3	2541
Replace fuel tank console / instrument panel		0.3	0.3	0.3	2553
Replace fuel tank console / rubber molding strip		0.2	0.2	0.2	2557
Replace fuel tank valve		0.2	0.2	---	2561
Replace fuel tank gauge sending unit		0.5	0.5	0.5	2564
Replace fuel tank check valve assembly		---	---	0.6	2567
Replace canopy gasket		0.4	0.4	0.4	2570
Replace fuel filter		---	---	0.5	2575
Replace any hose		0.3	0.3	0.3	2576
Replace fuel hose inside tank		---	---	0.5	2579
Replace oil filter		0.1	0.1	0.1	2582
BELT GUARDS					
Replace rear belt guard – debris deflector		0.1	0.1	0.1	2616
EXHAUST SYSTEM					
Replace complete exhaust system and/or gaskets		1.0	1.0	1.0	2626
Replace exhaust pipe	right side	0.9	0.9	0.9	2631
	left side	0.3	0.3	0.3	2636
Replace one muffler		0.2	0.2	0.2	2646
Replace any one exhaust shield		0.1	0.1	0.1	2661
Replace one muffler support		0.2	0.2	0.2	2666

Table 3-3. Engine

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
GENERAL					
Remove and install engine	California vehicles only	4.3	4.3	4.6	3006
Remove and install engine		4.2	4.2	4.5	3006
Replace and adjust stabilizer	top	0.7	0.7	0.7	3005
	front	0.3	0.3	0.3	3007
Remove and replace oil pan for inspection/contamination	with engine removed	0.3	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	4.2	4.2	4.5	3101
	rear head	4.2	4.2	4.5	3103
	both heads	4.8	4.8	5.1	3104
Replace cylinder head	one head	2.9	2.9	3.2	3106
	both heads	3.5	3.5	3.8	3108
Replace valve seal or spring after cylinder head removal	one seal or spring (intake or exhaust)	0.1	0.1	0.1	3131
	both seals or springs (intake or exhaust)	0.2	0.2	0.2	3132
Replace cylinder head gasket/o-ring	front cylinder	2.3	2.3	2.6	3140
	rear cylinder	2.3	2.3	2.6	3142
	both cylinders	2.7	2.7	3.0	3143
Replace rocker arm covers and/or gaskets	front cylinder	0.8	0.8	0.8	3144
	rear cylinder	0.8	0.8	0.8	3145
	both cylinders	0.9	0.9	0.9	3148
Recondition rocker arms after heads are removed	one head	0.7	0.7	0.7	3149
	both heads	1.4	1.4	1.4	3150
Replace lower rocker arm cover/gasket, or rocker arms and /or shafts/rocker arm support	front cylinder	1.2	1.2	1.2	3147
	rear cylinder	1.2	1.2	1.2	3152
	both cylinders	1.4	1.4	1.4	3153
Replace cylinder o-ring/drain o-ring	front cylinder	2.5	2.5	2.8	3161
	rear cylinder	2.5	2.5	2.8	3163
	both cylinders	2.9	2.9	3.2	3168
Replace crankcase umbrella valve	one	1.1	1.1	1.1	3172
	both	1.2	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	5.5	3202
	both pistons and cylinders	5.8	5.8	6.1	3203
Replace piston rings – includes deglazing cylinder	one cylinder	2.8	2.8	3.1	3206
	both cylinders	3.4	3.4	3.7	3216
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	5.3	3207
	both pistons and cylinders	5.6	5.6	5.9	3208

Table 3-3. Engine

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" over-size or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.	one piston and cylinder	5.6	5.6	5.9	3211
	both pistons and cylinders	6.2	6.2	6.5	3212
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	3.7	3221
	both cylinders	4.6	4.6	4.9	3231
Replace cylinder and piston	one cylinder	2.7	2.7	3.0	3236
	both cylinders	3.2	3.2	3.5	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	1.4	1.4	1.4	3307
	both	1.7	1.7	1.7	3310
Replace push rod, push rod cover and/or O-ring or quad seal	one or two same cylinder	1.4	1.4	1.4	3317
	one each cylinder	1.6	1.6	1.6	3318
Replace cam cover and/or gasket		1.6	1.6	1.6	3325
Replace primary cam chain, sprockets and/or fastener		1.7	1.7	1.7	3327
Replace primary cam chain tensioner		1.7	1.7	1.7	3328
Replace cam support plate/O-rings		2.8	2.8	2.8	3335
Replace cam support plate		2.8	2.8	2.8	3337
Replace cam support bearing/cams/secondary cam chain/tensioner		3.0	3.0	3.0	3338
Replace oil pump and/or O-rings		2.6	2.6	2.6	3341
Replace cam bearing crankcase	one bearing	2.8	2.8	2.8	3342
	two bearings	2.9	2.9	2.9	3343
By pass valve inspection		2.7	2.7	2.7	3354
CRANKCASE					
Replace crankcases	California vehicles only –includes remove and install engine	7.7	7.7	8.0	3406
Replace crankcases	includes remove and install engine	7.6	7.6	7.9	3406
Seal crankcase only		6.5	6.5	6.8	3407
Replace flywheels	includes remove and install engine	7.2	7.2	7.5	3411
Replace right side main bearing	California vehicles only	7.2	7.2	7.5	3412
Replace right side main bearing		7.1	7.1	7.4	3412
Replace left side main bearing	California vehicles only	6.7	6.7	7.0	3410
Replace left side main bearing		6.6	6.6	6.9	3410
Piston jet/O-ring	one	2.7	2.7	3.0	3413
	both	3.1	3.1	3.4	3414
Filter housing and or O-rings		0.2	0.2	0.2	3415
Replace crankcase vent hose and/or fittings		0.2	0.2	0.2	3417

Table 3-3. Engine

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
Replace crankcase oil hose and/or fittings	Feed	0.3	0.3	0.3	3418
	Return	0.3	0.3	0.3	3419
Check flywheel trueness before assembly or after removal		0.1	0.1	0.1	3420
True flywheels after removal	includes piston removal and reinstallation	0.5	0.5	0.5	3421
Recondition cylinder heads – head removed (for non-related repairs)	one head	1.0	1.0	1.0	3425
	both heads	2.0	2.0	2.0	3426
Replace piston rings	cylinders removed (for non-related repairs – deglaze only)	0.3	0.3	0.3	3428
Replace pistons	cylinders removed (for non-related repairs) includes resizing cylinders	1.4	1.4	1.4	3430
FUEL SYSTEM					
Replace air cleaner backing plate		0.2	0.2	0.2	3501
Replace air cleaner cover		0.1	0.1	0.1	3502
Replace carburetor		0.4	0.4	---	3506
Replace induction module		---	---	1.2	3508
Replace induction module seal		---	---	1.2	3510
Replace intake manifold and/or gasket	one	0.6	0.6	---	3511
Replace external fuel supply hose		---	---	0.2	3514
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	0.1	3527
Replace vapor valve		0.1	0.1	0.1	3528
Replace any one hose		0.1	0.1	0.1	3529

Table 3-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
DRIVE					
Adjust primary chain		0.2	0.2	0.2	---
Replace primary inspection cover and/or O-ring		0.1	0.1	0.1	4001
Replace primary chain		0.9	0.9	0.9	4002
Replace engine sprocket		0.9	0.9	0.9	4003
Replace engine sprocket seal		1.3	1.3	1.3	4005
Replace primary cover		0.6	0.6	0.6	4007
Replace inner primary case and/or mainshaft bearing		2.1	2.1	2.1	4008
Replace primary cover gasket		0.6	0.6	0.6	4009
Replace shifter lever	heel or toe	0.1	0.1	0.1	4012

Table 3-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
CLUTCH					
Adjust clutch		0.2	0.2	0.2	---
Replace release cable assembly		1.2	1.2	1.2	4006
Service the clutch	includes disassembly, cleaning, inspection repair, assembly and adjustment	1.3	1.3	1.3	4011
Replace clutch release bearing and/or push rod		0.4	0.4	0.4	4016
Replace clutch release mechanism (ball ramp) and/or side cover		1.6	1.6	1.6	4018

Table 3-5. Transmission

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
TRANSMISSION CASE					
Replace transmission case		5.3	5.3	5.3	4304
Replace transmission complete		4.9	4.9	4.9	4305
Overhaul transmission	includes disassembly, cleaning, inspection, replacing parts (transmission case in frame)	4.6	4.6	4.6	4306
Replace transmission sprocket		2.2	2.2	2.2	4309
Replace main drive gear oil seal	in transmission case	2.3	2.3	2.3	4311
Replace mainshaft oil seal	in main drive gear	2.2	2.2	2.2	4316
Replace side door gasket		2.8	2.8	2.8	4321
Replace shifter drum		0.7	0.7	0.7	4331
Replace shifter arm assembly or springs		3.0	3.0	3.0	4336
Replace transmission top cover and/or gasket		0.6	0.6	0.6	4341
Replace shifter forks and/or shaft		1.8	1.8	1.8	4343
Replace side door bearing	one	3.0	3.0	3.0	4348
	both	3.1	3.1	3.1	4351
Replace transmission case countershaft bearing		2.9	2.9	2.9	4361
Replace main drive gear and/or bearing		3.2	3.2	3.2	4366
Replace transmission side cover gasket		0.9	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	0.9	4378
Replace oil fill tube and/or cover, and/or gasket		0.4	0.4	0.4	4379
Replace transmission shift shaft seal		2.2	2.2	2.2	4390

Table 3-6. Electrical

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
GENERAL					
Check and diagnose the electrical system lights and accessories	excluding turn signals	0.3	0.3	0.3	5016
Replace connector housing		0.1	0.1	0.1	5022
Replace connector anchor		0.1	0.1	0.1	5023
CHARGING CIRCUIT					
Diagnose charging system	regulator inspection	0.1	0.1	0.1	5306
Diagnose charging system	regulator bleed	0.9	0.9	0.9	5307
Diagnose charging system	milliamp draw	0.2	0.2	0.2	5308
Diagnose charging system	total current draw	0.2	0.2	0.2	5310
Replace regulator/stator connector		0.2	0.2	0.2	5311
Diagnose charging system	open/grounded stator	1.8	1.8	1.8	5312
Diagnose charging system	AC output	1.8	1.8	1.8	5314
Diagnose charging system	regulator failure	1.0	1.0	1.0	5315
Diagnose charging system	voltage output	1.0	1.0	1.0	5316
Diagnose charging system	replace rotor	1.3	1.3	1.3	5319
STARTER CIRCUIT					
Starter inoperative	open/shorted/grounded motor	1.4	1.4	1.4	5817
Starter inoperative	start button	1.0	1.0	1.0	5818
Starter inoperative	solenoid clicks; poor starter or battery connections	0.2	0.2	0.2	5822
Starter inoperative	solenoid clicks; poor relay or solenoid connections, or bad relay contacts	0.3	0.3	0.3	5823
Starter inoperative	solenoid clicks; poor starter to battery connections, ground connections, or bad solenoid contacts	0.2	0.2	0.2	5824
Starter inoperative	damaged motor	1.4	1.4	1.4	5825
Starter inoperative	relay clicks; open in relay wiring	0.3	0.3	0.3	5827
Starter inoperative	nothing clicks; poor relay ground	0.3	0.3	0.3	5828
Starter inoperative	no click; short to voltage	0.4	0.4	0.4	5830
Starter inoperative	nothing clicks; open in wiring to or from starter button	0.5	0.5	0.5	5831
Starter inoperative	starter relay	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	5835
Slow starter crank or starter stalls	binding	0.3	0.3	0.3	5836
Starter spins	clutch	1.5	1.5	1.5	5837
Starter inoperative	no click; TSM/TSSM	0.4	0.4	0.4	5838
Replace starter solenoid, contacts	includes starter motor removal	1.6	1.6	1.6	5845
Starter binding		1.6	1.6	1.6	5850
Replace starter solenoid coil	includes starter motor removal	1.6	1.6	1.6	5860
Starter Inoperative – nothing clicks	TSM/TSSM	0.2	0.2	0.2	6791
Starter Inoperative – nothing clicks	connector	0.1	0.1	0.1	6792
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	6793
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	6805
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	6806

Table 3-6. Electrical

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
WIRING					
Replace main wiring harness		3.6	3.6	3.6	5026
Main harness	locate and repair, open/short	0.5	0.5	0.5	5028
Replace EFI harness		---	---	1.7	5033
Replace rear fender wiring harness		0.8	0.8	0.8	5036
Replace any single wire	ground wire	0.4	0.4	0.4	5038
	light circuit	0.2	0.2	0.2	5039
	accessory circuit	0.2	0.2	0.2	5043
Repair/diagnose indicator lamp wiring		0.3	0.3	0.3	5048
Replace front fender wiring harness		0.9	0.9	0.9	5049
Replace ignition wiring harness		1.1	1.1	---	5050
Replace interconnect harness		0.5	0.5	0.5	5052
Interconnect harness	repair short	0.5	0.5	0.5	6531
Interconnect harness	repair open	0.5	0.5	0.5	6532
Handlebar harness	repair short	0.4	0.4	0.4	6551
Handlebar harness	repair open	0.4	0.4	0.4	6552
SWITCHES					
Replace ignition switch		0.5	0.5	0.5	5129
Replace rear stoplight switch		0.5	0.5	0.5	5141
Replace fuse		0.2	0.2	0.2	5145
Replace main circuit breaker		0.2	0.2	0.2	5147
Replace fuse block	one	0.3	0.3	0.3	5148
Replace fuse block	two	0.5	0.5	0.5	5151
Replace transmission neutral switch	includes diagnosis	0.3	0.3	0.3	5157
Replace oil pressure switch	includes diagnosis	0.3	0.3	0.3	5161
Replace rear stoplight relay		0.2	0.2	0.2	5169
Replace left upper handlebar switch		0.5	0.5	0.5	5171
Replace right upper handlebar switch		0.7	0.7	0.7	5173
Replace front brake light switch		0.7	0.7	0.7	5176
Replace left upper handlebar switch housing		0.2	0.2	0.2	5177
Replace left lower handlebar switch housing		0.3	0.3	0.3	5178
Replace right upper handlebar switch housing		0.2	0.2	0.2	5179
Replace right lower handlebar switch housing		0.7	0.7	0.7	5180
Replace handlebar (AM/FM/WB) switch		1.0	1.1	1.0	5183
Replace handlebar audio switch		1.0	1.0	1.0	5186
Replace any fairing switch		0.4	0.4	0.4	5192
LIGHTS					
Replace headlight	includes diagnosis	0.1	0.1	0.1	5185
Replace headlight housing	includes adjustment	0.2	0.2	0.2	5189
Replace instrument bulb	includes diagnosis	0.2	0.2	0.2	5193
Replace taillight bulb or single light bulb or lens	includes diagnosis	0.1	0.1	0.1	5197

Table 3-6. Electrical

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
Replace turn signal light assembly	front	0.4	0.4	0.4	5201
	rear	0.4	0.4	0.4	5205
Replace rear turn signal bar		0.4	0.4	0.4	5207
Replace taillight assembly or circuit board		0.2	0.2	0.2	5215
Replace fender tip light bulb or lens, includes diagnosis	front	0.1	0.1	0.1	5217
	rear	0.1	0.1	0.1	5221
Replace fender tip lamp assembly	front	0.2	0.2	0.2	5225
	rear	0.3	0.3	0.3	5229
Replace passing lamp bulb	includes diagnosis	0.1	0.1	0.1	5227
Replace passing lamp		0.4	0.4	0.4	5230
Replace passing lamp bracket		0.7	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
TURN SIGNAL/SECURITY SYSTEM					
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 Touring Service Manual, Part No. 99483-03 and Electrical Diagnostics Manual, Part No. 99497-03.					
No security lamp		0.5	0.5	0.5	6735
No security lamp		0.5	0.5	0.5	6736
No security lamp		0.5	0.5	0.5	6737
No security lamp		0.5	0.5	0.5	6738
No security lamp		0.1	0.1	0.1	6739
No security lamp		0.2	0.2	0.2	6740
No security lamp		0.3	0.3	0.3	6741
No security lamp		0.3	0.3	0.3	6742
No security lamp		0.3	0.3	0.3	6743
No security lamp		0.2	0.2	0.2	6744
No security lamp		0.3	0.3	0.3	6745
Security lamp on continuously		0.2	0.2	0.2	6750
Security lamp on continuously		0.4	0.4	0.4	6751
Security lamp on continuously		0.5	0.5	0.5	6752
Fob signal weak		0.1	0.1	0.1	6755
Fob signal weak		0.1	0.1	0.1	6756
Fob signal weak		0.2	0.2	0.2	6757
Turn signal error 1A		---	---	0.5	6760
Turn signal error 1A		---	---	1.1	6761
Turn signal error 1A		---	---	0.2	6762
Turn signal error 1A		---	---	0.3	6763
Turn signal error 1A		---	---	0.7	6764
Turn signal error 1B		---	---	0.3	6767
Turn signal error 1B		---	---	0.3	6768
Turn signal error 1B		---	---	0.4	6769

Table 3-6. Electrical

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
Turn signal error 1C		---	---	0.8	6771
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	0.3	6790
Turn signal error 3A		0.2	0.2	0.2	6791
Turn signal error 3A		0.1	0.1	0.1	6792
Turn signal error 3A		0.3	0.3	0.3	6793
Turn signal error 3B		0.1	0.1	0.1	6796
Turn signal error 3B		0.3	0.3	0.3	6797
Turn signal error 3B		0.3	0.3	0.3	6798
Turn signal error 3B		0.3	0.3	0.3	6799
Turn signal error 3B		0.3	0.3	0.3	6800
Turn signal error 3C		0.3	0.3	0.3	6805
Turn signal error 3C		0.3	0.3	0.3	6806
Turn signal error 3C		0.2	0.2	0.2	6807
Turn signal error 3C		0.3	0.3	0.3	6808
Turn signal error 3D		0.4	0.4	0.4	6810
Turn signal error 3D		0.8	0.8	0.8	6811
Turn signal error 3D		0.5	0.5	0.5	6812
Turn signal error 3D		0.4	0.4	0.4	6813
Turn signal error 3D		0.5	0.5	0.5	6814
Turn signal error 3D		0.8	0.8	0.8	6815
Turn signal error 3D		0.5	0.5	0.5	6816
Turn signal error 4A		0.2	0.2	0.2	6820
Turn signal error 4A		0.2	0.2	0.2	6821
Turn signal error 4A		0.4	0.4	0.4	6822
Turn signal error 4A	Does not include lamp assembly replacement	0.3	0.3	0.3	6823
Turn signal error 4A		0.5	0.5	0.5	6824
Ignition enable output high		0.3	0.3	0.3	6827
Ignition enable output high		0.3	0.3	0.3	6828
Alarm output		0.3	0.3	0.3	6830
Alarm output		0.3	0.3	0.3	6831
Alarm output		0.3	0.3	0.3	6832
Alarm output		0.4	0.4	0.4	6833
Alarm output		0.3	0.3	0.3	6834
Alarm output		0.3	0.3	0.3	6835
Starter output high		0.3	0.3	0.3	6840
Starter output high		0.2	0.2	0.2	6841
Starter output high		0.3	0.3	0.3	6842
Accelerometer fault		0.2	0.2	0.2	6845

Table 3-6. Electrical

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
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	---	7250
	Engine cranks but will not start	1.9	1.9	---	7255
	Chart A-4	No spark, no check engine lamp	0.3	0.3	---
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

Table 3-6. Electrical

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
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
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

Table 3-6. Electrical

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
BATTERY/HORN					
Replace the battery	includes diagnosis	0.3	0.3	0.3	5705
Replace horn and/or bracket		0.1	0.1	0.1	5765
Replace battery tray		0.5	0.5	0.5	5767
Replace battery cable		0.2	0.2	0.2	5769
INSTRUMENTS – INCLUDES DIAGNOSIS					
Diagnose inoperative, inaccurate or erratic speedometer	switch	0.3	0.3	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer		0.1	0.1	0.1	6002
Replace speedometer	cosmetics only	0.3	0.3	0.3	6003
Diagnose inoperative, inaccurate or erratic speedometer	replace	0.5	0.5	0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer	wiring	0.4	0.4	0.4	6008
Replace tachometer		0.3	0.3	0.3	6009
Diagnose inoperative, inaccurate or erratic speedometer	sensor	0.5	0.5	0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer	open	0.6	0.6	0.6	6013
Diagnose inoperative, inaccurate or erratic speedometer	LED failure	0.2	0.2	0.2	6014
Diagnose inoperative, inaccurate or erratic speedometer	wires	0.4	0.4	0.4	6016
Replace indicator panel lens		0.3	0.3	0.3	6018
Odometer inoperable		0.3	0.3	0.3	6020
Replace voltmeter or fuel gauge		0.3	0.3	0.3	6021
Diagnose inoperative, inaccurate or erratic speedometer	internal	0.5	0.5	0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer	power/ground	0.5	0.5	0.5	6024
Replace oil pressure or air temperature gauge		0.3	0.3	0.3	6026
Replace ambient temperature sensor		---	0.3	---	6028
Diagnose inoperative, inaccurate, or erratic speedometer	debris or sensor	0.5	0.5	0.5	6029
Replace low fuel module		---	---	0.3	6030
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	0.1	6043
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

Table 3-7. FLHT, FLHTC and FLHT-I Accessories

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
ACCESSORIES					
Replace windshield		0.1	0.1	0.1	6203
Replace inner fairing		1.7	1.8	1.7	6209
Replace saddlebag mounting bracket		0.2	0.2	0.2	6253
Replace saddlebag guard		---	0.3	---	6254
Replace outer fairing or support brace		0.3	0.3	0.3	6255
Replace single saddlebag guard rail		0.2	0.2	0.2	6256
Replace saddlebag		0.2	0.2	0.2	6257
Replace saddlebag lock		0.2	0.2	0.2	6259
Replace saddlebag cover	one	0.2	0.2	0.2	6260
Replace saddlebag lock or a Tour-Pak lock or latch		0.2	0.2	0.2	6261
Replace one saddlebag tether strap		0.1	0.1	0.1	6262
Replace one frame sidecover		0.1	0.1	0.1	6263
Replace Tour-Pak hinge		---	0.3	---	6264
Replace inner fairing bracket		0.7	0.8	0.7	6265
Replace nameplate Tour-Pak		---	0.2	---	6266
Replace Tour-Pak cover		---	0.7	---	6270
Replace fairing cap		0.3	0.3	0.3	6271
Replace chrome fairing skirt		0.2	0.2	0.2	6273
Change lock-set		0.3	0.5	0.3	6276
Replace bumper	front	---	0.3	---	6303
	rear	0.2	0.2	0.2	6305
Replace highway bar	front	0.3	0.3	0.3	6353
	rear – left	0.3	0.3	0.3	6355
	rear – right	0.4	0.4	0.4	6357
Replace Tour-Pak mount/luggage rack		0.6	0.7	0.6	6453
Replace Tour-Pak	includes lights and brackets, antenna assembly and backrest	---	0.9	---	6509
Replace mirror		0.1	0.1	0.1	6513
Replace backrest		---	0.2	---	6515

Table 3-8. Sidecar

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
2001 ACCESSORY SIDECAR					
Replace sidecar windshield		0.2	0.2	0.2	6901
Replace sidecar fender		0.8	0.8	0.8	6904
Replace seat		0.2	0.2	0.2	6907
Replace seat cable		0.5	0.5	0.5	6910
Replace liner (carpeting)		0.4	0.4	0.4	6913
Replace brake pads		0.2	0.2	0.2	6926
Replace brake caliper		0.3	0.3	0.3	6927

Table 3-8. Sidecar

ITEM	DESCRIPTION	MODELS			LABOR CODE
		DDV	DJV	FVW	
Replace brake disc		0.3	0.3	0.3	6929
Replace wheel		0.7	0.7	0.7	6931
Replace axle		0.8	0.8	0.8	6934
Removal of sidecar for service and reattachment	includes realignment	1.1	1.1	1.1	6954
Sidecar alignment		0.8	0.8	0.8	6956
Sidecar tub removal		0.3	0.3	0.3	6958

Table 3-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FVW	
NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the Touring Service Manual, Part No. 99483-03 and Electrical Diagnostic Manual, Part No. 99497-03.			
No check engine lamp/No ECM Power		0.6	6013
Password problem		0.4	6701
Password problem		0.4	6702
Password problem		0.6	6703
Password problem		0.4	6704
Password problem		0.5	6705
Password problem		0.3	6706
Password problem		0.6	6707
Password problem		0.8	6708
Loss of TSM / TSSM serial data		0.4	6715
Loss of TSM / TSSM serial data		0.6	6716
Loss of TSM / TSSM serial data		0.6	6717
Loss of TSM / TSSM serial data		0.5	6718
Loss of TSM / TSSM serial data		0.4	6719
Diagnostic Check		0.2	7110
Diagnostic Check		0.4	7115
Diagnostic Check		0.4	7120
Diagnostic Check		0.8	7125
Diagnostic Check		0.8	7126
Starts, then stalls; no DTCs		0.4	7127
Starts, then stalls; no DTCs		0.3	7128
No check engine lamp/No ECM Power		0.7	7130
No check engine lamp/No ECM Power		0.6	7133
Misfire at idle or under load		0.3	7134
Rough or rolling idle		0.3	7134
Misfire at idle or under load		0.3	7136
Rough or rolling idle		0.3	7136
Misfire at idle or under load		0.6	7137
Rough or rolling idle		0.6	7137
Misfire at idle or under load		0.7	7138
Rough or rolling idle		0.7	7138
Misfire at idle or under load		0.6	7139
Rough or rolling idle		0.6	7139
No check engine lamp/No ECM Power		0.4	7141

Table 3-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FVW	
No check engine lamp/No ECM Power		0.1	7142
No check engine lamp/No ECM Power		0.6	7143
Misfire at idle or under load		0.9	7144
Rough or rolling idle		0.9	7144
No check engine lamp/No ECM Power		0.5	7146
Misfire at idle or under load		0.5	7147
Rough or rolling idle		0.5	7147
Check engine lamp on continuously		0.2	7148
Misfire at idle or under load		0.9	7149
Rough or rolling idle		0.9	7149
Check engine lamp on continuously		0.7	7150
Misfire at idle or under load		0.6	7152
Rough or rolling idle		0.6	7152
Check engine lamp on continuously		0.3	7155
Check engine lamp on continuously		0.2	7156
Check engine lamp on continuously		0.1	7157
Engine cranks but will not start		0.6	7185
Engine cranks but will not start		0.5	7195
Engine cranks but will not start		0.5	7210
Engine cranks but will not start		0.4	7215
Engine cranks but will not start		0.5	7223
Engine cranks but will not start		0.4	7224
Engine cranks but will not start		0.5	7225
Engine cranks but will not start		0.8	7226
Engine cranks but will not start		0.7	7227
Engine cranks but will not start		0.5	7228
Engine cranks but will not start		0.5	7230
Engine cranks but will not start		0.6	7231
Engine cranks but will not start		0.5	7235
Engine cranks but will not start		0.9	7251
No check engine lamp/No ECM Power		0.6	7270
No check engine lamp/No ECM Power		0.7	7285
No check engine lamp/No ECM Power		0.9	7286
No check engine lamp/No ECM Power		1.2	7287
No check engine lamp/No ECM Power		0.9	7288
No check engine lamp/No ECM Power		0.9	7289
No check engine lamp/No ECM Power		0.5	7290
No check engine lamp/No ECM Power		1.5	7295
No check engine lamp/No ECM Power		0.6	7301
No check engine lamp/No ECM Power		0.1	7302
No check engine lamp/No ECM Power		0.8	7303
No check engine lamp/No ECM Power		0.6	7304
No check engine lamp/No ECM Power		0.6	7305
No check engine lamp/No ECM Power		0.5	7306
No check engine lamp/No ECM Power		0.8	7307
No check engine lamp/No ECM Power		0.7	7308
No check engine lamp/No ECM Power		0.6	7309

Table 3-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FVW	
No check engine lamp/No ECM Power		0.6	7310
No check engine lamp/No ECM Power		0.3	7320
Fuel system electrical test		0.2	7335
Fuel system electrical test		0.7	7336
Engine cranks but will not start; Fuel system electrical test		0.6	7340
Engine cranks but will not start; Fuel system electrical test		0.5	7355
Fuel system electrical test		0.3	7360
Fuel system electrical test		0.8	7370
Engine cranks but will not start; Fuel system electrical test		0.4	7380
Fuel system electrical test		0.3	7385
Engine cranks but will not start; Fuel system electrical test		0.9	7415
Fuel system electrical test		0.3	7440
Engine cranks but will not start; Fuel system electrical test		0.4	7441
Fuel system electrical test		0.2	7445
Engine cranks but will not start; Fuel system electrical test		0.4	7450
Fuel pressure test		0.4	7455
Fuel pressure test		0.7	7465
Fuel pressure test		0.7	7470
Fuel pressure test		0.7	7480
Idle air control		1.1	7486
Idle air control		0.5	7490
Idle air control		0.5	7495
Idle air control		0.6	7505
Idle air control		0.5	7510
Idle air control		0.4	7515
Idle air control		0.6	7516
Engine cranks but will not start; Fuel system electrical test		0.4	7520
Misfire at idle or under load		0.4	7520
Misfire at idle or under load		0.2	7525
Misfire at idle or under load		0.4	7535
Combustion absent		0.1	7537
Combustion absent		0.2	7538
Combustion absent		0.2	7539
Misfire at idle or under load		0.3	7540
Combustion absent		0.2	7543
Combustion absent		0.4	7544
Misfire at idle or under load		0.2	7545
Combustion absent		0.2	7546
Combustion absent		0.4	7547
Combustion absent		0.1	7548
Combustion absent		0.1	7549

Table 3-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FVW	
Misfire at idle or under load		0.4	7550
Throttle position sensor		0.5	7555
Throttle position sensor		0.5	7560
Throttle position sensor		0.6	7565
Throttle position sensor		0.4	7570
Throttle position sensor		0.5	7575
Throttle position sensor		0.5	7580
Throttle position sensor		0.5	7585
Throttle position sensor		0.7	7590
Throttle position sensor		0.3	7595
Emits black smoke		2.0	7596
Emits black smoke		2.0	7597
Emits black smoke		2.0	7598
Emits black smoke		2.2	7601
Throttle position sensor		0.7	7605
Throttle position sensor		0.5	7610
Throttle position sensor		0.8	7615
MAP sensor		0.8	7620
MAP sensor		1.2	7625
MAP sensor		0.3	7630
MAP sensor		0.6	7635
MAP sensor		0.6	7640
MAP sensor		0.6	7641
MAP sensor		0.5	7642
MAP sensor		0.6	7645
MAP sensor		0.6	7650
MAP sensor		0.7	7655
Engine temperature sensor		0.4	7660
Engine temperature sensor		0.9	7665
Engine temperature sensor		0.2	7670
Engine temperature sensor		0.3	7675
Engine temperature sensor		0.4	7680
Engine temperature sensor		0.4	7685
Engine temperature sensor		0.3	7690
Engine temperature sensor		0.5	7695
Engine temperature sensor		0.3	7705
Engine temperature sensor		0.4	7710
Intake air temperature sensor		0.6	7715
Intake air temperature sensor		1.4	7720
Intake air temperature sensor		0.4	7725
Intake air temperature sensor		0.4	7730
Intake air temperature sensor		0.9	7735
Intake air temperature sensor		0.9	7740
Intake air temperature sensor		0.4	7745
Intake air temperature sensor		0.3	7750
Intake air temperature sensor		0.4	7755
Intake air temperature sensor		0.4	7760

Table 3-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FVW	
Battery voltage test		0.4	7770
Battery voltage test		0.5	7775
Battery voltage test		0.9	7776
Battery voltage test		1.0	7779
Battery voltage test		0.9	7780
Battery voltage test		1.4	7781
Battery voltage test		1.0	7782
Battery voltage test		0.9	7783
Battery voltage test		1.1	7784
Fuel injectors		0.1	7785
Fuel injectors		0.6	7790
Fuel injectors		0.7	7795
Fuel injectors		0.6	7805
Fuel injectors		0.6	7808
Fuel injectors		0.5	7809
Fuel injectors		0.6	7815
Fuel injectors		0.6	7820
Fuel injectors		0.7	7825
Fuel injectors		0.6	7830
Fuel injectors		0.6	7835
Fuel injectors		0.6	7840
Fuel injectors		0.4	7845
Fuel injectors		0.7	7850
Ignition coil test		0.5	7853
Ignition coil test		0.6	7854
Ignition coil test		0.4	7856
Ignition coil test		0.4	7860
Ignition coil test		0.3	7865
Ignition coil test		0.5	7870
Ignition coil test		0.4	7875
Ignition coil test		0.2	7880
System relay		0.2	7887
System relay		0.3	7888
System relay		0.4	7889
System relay		0.3	7899
System relay		0.3	7900
System relay		0.4	7901
System relay		0.4	7902
System relay		0.3	7903
System relay		0.2	7904
System relay		0.4	7906
System relay		0.7	7907
System relay		0.3	7908
System relay		0.2	7909
System relay		0.3	7911
System relay		0.4	7912
ECM failure		0.3	7913

Table 3-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FVW	
Vehicle speed signal		0.4	7954
Vehicle speed signal		0.4	7956
Vehicle speed signal		0.5	7957
Vehicle speed signal		0.3	7958
Vehicle speed signal		0.4	7959
Vehicle speed signal		0.3	7961
Vehicle speed signal		0.3	7962
Vehicle speed signal		0.3	7963
Vehicle speed signal		0.3	7964
Crank position sensor		0.5	7980
Crank position sensor		0.4	7981
Crank position sensor		0.3	7982
Crank position sensor		0.5	7983
Crank position sensor		0.2	7984
Crank position sensor		0.4	7985
Crank position sensor		0.5	7986
Crank position sensor		0.4	7987
Engine cranks but will not start; Fuel system electrical test		0.7	7992
Starts, then stalls		0.7	7992
Starts, then stalls		0.6	7993
Starts, then stalls		0.3	7994
Starts, then stalls		0.3	7995
Starts, then stalls		0.3	7996
Starts, then stalls		0.5	7997
Starts, then stalls		0.6	7998
Starts, then stalls		0.5	7999

NOTES

2003 FLHTC-I & FLHTCU-I MODELS

Table 4-1. Service

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
NEW						
Set-up and pre-delivery	includes setting SWR	2.5	2.5	6.9	2.5	---
1,000 mile service		3.4	3.4	3.7	3.4	---
REGULAR						
2,500 mile maintenance		0.7	0.7	0.7	0.7	---
5,000 mile maintenance		1.8	1.8	2.0	1.8	---
7,500 mile maintenance		0.7	0.7	0.7	0.7	---
10,000 mile maintenance		3.5	3.5	3.9	3.5	---
20,000 mile maintenance		6.4	6.4	6.8	6.4	---
25,000 mile maintenance		2.3	2.3	2.5	2.3	---
50,000 mile maintenance		6.5	6.5	6.9	6.5	---

Table 4-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
DRIVE						
Adjust secondary belt		0.2	0.2	0.2	0.2	---
Replace secondary belt		3.7	3.7	3.7	3.7	2011
Replace rear wheel sprocket		0.9	0.9	0.9	0.9	2021
WHEELS						
Replace tire and/or wheel assembly - includes balancing	front	0.6	0.6	0.6	0.6	2106
	rear	0.8	0.8	0.8	0.8	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing	front	0.8	0.8	0.8	0.8	2113
	rear	1.3	1.3	1.3	1.3	2114
Replace rim, hub or spokes	front	2.2	2.2	2.2	2.2	2116
	rear	2.4	2.4	2.4	2.4	2121
Replace wheel bearings and/or adjust bearing end play and/or replace seals	front	0.6	0.6	0.6	0.6	2136
	rear	0.8	0.8	0.8	0.8	2141
True laced wheel (wheel on vehicle)		0.4	0.4	0.4	0.4	2156
True laced wheel - includes r/r wheel & tire and time to rebalance	front	1.0	1.0	1.0	1.0	2157
	rear	1.2	1.2	1.2	1.2	2158
HANDLEBARS						
Replace handlebars	includes removing radio	1.2	1.2	1.3	1.3	2206
Replace clutch hand lever		0.2	0.2	0.2	0.2	2221

All times listed in hours.

V.I.N. CODES

FFW	FLHTC-I
FKW	FLHTC-I SHRINE
FCW	FLHTCU-I
FLW	FLHTCU-I SHRINE
FGW	FLHTCU-I WITH SIDECAR (JAPAN ONLY)

Table 4-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
Replace clutch hand lever bracket		0.2	0.2	0.2	0.2	2226
Replace throttle control		0.4	0.4	0.5	0.5	2231
Replace throttle control cable	one or more - includes all diagnostics and adjustments	0.6	0.6	0.8	0.8	2241
Replace both rubber handlebar mounts	includes removing radio	1.0	1.0	1.0	1.0	2246
Replace rubber handlebar grip		0.2	0.2	0.2	0.2	2251
Replace handlebar riser	one or both - includes loosening radio	1.0	1.0	1.0	1.0	2253
Replace handlebar clamp	one or both - includes removing radio	0.8	0.8	0.8	0.8	2254
FRAME/SWING ARM/FRONT FORK						
Adjust steering head bearings		0.7	0.7	0.7	0.7	---
Change front fork oil	both sides	2.9	2.9	2.9	2.9	---
Replace frame	includes removal and installation of all accessories and motorcycle components	17.2	17.2	17.5	17.5	2306
Replace front fork assembly	includes removal and installation of upper and lower fork brackets	3.0	3.0	3.0	3.0	2311
Replace lower fork bracket and stem		3.2	3.2	3.2	3.2	2316
Replace steering head cups and bearings	including bearing adjustment	3.2	3.2	3.2	3.2	2321
Replace upper fork bracket		2.7	2.7	2.7	2.7	2326
Replace complete lock set		0.4	0.4	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	both sides	2.9	2.9	2.9	2.9	2342
	right side	2.4	2.4	2.4	2.4	2343
	left side	2.7	2.7	2.7	2.7	2344
Replace fork side	one side	1.2	1.2	1.2	1.2	2346
	both sides	1.5	1.5	1.5	1.5	2351
Replace fork tube	right side	1.9	1.9	1.9	1.9	2357
	left side	2.7	2.7	2.7	2.7	2358
	both sides	2.9	2.9	2.9	2.9	2361
Replace rear swing arm and/or bearings		1.9	1.9	1.9	1.9	2366
Replace rear fork pivot shaft		1.0	1.0	1.0	1.0	2368
Replace rear shock air line		0.2	0.2	0.2	0.2	2369
Replace rear shock absorber assembly	one side	0.3	0.3	0.3	0.3	2371
	both sides	0.6	0.6	0.6	0.6	2376
Replace rear shock absorber component(s)	one side	0.5	0.5	0.5	0.5	2381
	both sides	0.8	0.8	0.8	0.8	2386
Replace jiffy stand	complete	0.3	0.3	0.3	0.3	2391
	spring and/or stand	0.2	0.2	0.2	0.2	2396
	rubber bumper	0.1	0.1	0.1	0.1	2399
Replace footboard		0.2	0.2	0.2	0.2	2394
Replace motor rubber mount	rear right	0.5	0.5	0.5	0.5	2395
	rear left	0.3	0.3	0.3	0.3	2397
	front	0.4	0.4	0.4	0.4	2398

Table 4-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
BRAKES						
Replace hydraulic brake line – includes filling/bleeding brakes	front	1.0	1.0	1.0	1.0	2406
	rear	0.4	0.4	0.4	0.4	2411
Replace rear master cylinder reservoir and/or hose		0.2	0.2	0.2	0.2	2414
Replace brake pads	front – each caliper	0.1	0.1	0.1	0.1	2416
	rear	0.3	0.3	0.3	0.3	2421
Replace brake caliper – includes filling/bleeding brakes	front – each caliper	0.4	0.4	0.4	0.4	2426
	rear	1.0	1.0	1.0	1.0	2431
Replace brake disc	front – one side	0.3	0.3	0.3	0.3	2436
	front – both sides	0.4	0.4	0.4	0.4	2437
	rear	1.0	1.0	1.0	1.0	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	1.3	1.3	1.3	1.3	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	0.3	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 seat handrail		0.2	0.2	---	0.2	2508
Replace fender	front	1.0	1.0	1.0	1.0	2526
	rear	1.2	1.2	1.4	1.4	2531
Replace rear fender support		0.2	0.2	1.2	0.2	2536
Replace fuel tank assembly		1.3	1.3	1.3	1.3	2541
Replace fuel tank console/instrument panel		0.3	0.3	0.3	0.3	2553
Replace fuel tank console rubber mounting strip		0.2	0.2	0.2	0.2	2557
Replace gasoline level sending unit		0.5	0.5	0.5	0.5	2564
Replace fuel tank check valve assembly		0.6	0.6	0.6	0.6	2567
Replace canopy gasket		0.4	0.4	0.4	0.4	2570
Replace fuel filter		0.5	0.5	0.5	0.5	2575
Replace any hose		0.3	0.3	0.3	0.3	2576
Replace fuel hose inside tank		0.5	0.5	0.5	0.5	2579
Replace oil filter		0.1	0.1	0.1	0.1	2582

Table 4-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
BELT GUARDS						
Replace rear belt guard – debris deflector		0.1	0.1	0.1	0.1	2616
EXHAUST SYSTEM						
Replace complete exhaust system and/or gaskets		1.0	1.0	1.0	1.0	2626
Replace exhaust pipe	right side	0.9	0.9	0.9	0.9	2631
	left side	0.3	0.3	0.3	0.3	2636
Replace one muffler		0.2	0.2	0.2	0.2	2646
Replace any one exhaust shield		0.1	0.1	0.1	0.1	2661
Replace one muffler support		0.2	0.2	0.2	0.2	2666

Table 4-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
GENERAL						
Remove and install engine	California vehicles only	4.6	4.6	---	4.9	3006
Remove and install engine		4.5	4.5	4.8	4.8	3006
Replace and adjust stabilizer	top	0.8	0.8	0.8	0.8	3005
	front	0.3	0.3	0.3	0.3	3007
Remove and replace oil pan for inspection/contamination	with engine removed	0.3	0.3	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	4.9	4.9	3101
	rear head	4.5	4.5	4.9	4.9	3103
	both heads	5.1	5.1	5.5	5.5	3104
Replace cylinder head	one head	3.2	3.2	3.6	3.6	3106
	both heads	3.8	3.8	4.2	4.2	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	2.6	2.6	3.0	3.0	3140
	rear cylinder	2.6	2.6	3.0	3.0	3142
	both cylinders	3.0	3.0	3.4	3.4	3143
Replace rocker arm covers and/or gaskets	front cylinder	0.8	0.8	0.8	0.8	3144
	rear cylinder	0.8	0.8	0.8	0.8	3145
	both cylinders	0.9	0.9	0.9	0.9	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	1.2	1.2	1.6	1.6	3147
	rear cylinder	1.2	1.2	1.6	1.6	3152
	both cylinders	1.4	1.4	1.8	1.8	3153
Replace cylinder o-ring/drain o-ring	front cylinder	2.8	2.8	3.2	3.2	3161
	rear cylinder	2.8	2.8	3.2	3.2	3163
	both cylinders	3.2	3.2	3.6	3.6	3168

Table 4-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
Replace crankcase umbrella valve	one	1.1	1.1	1.1	1.1	3172
	both	1.2	1.2	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	5.5	5.9	5.9	3202
	both pistons and cylinders	6.1	6.1	6.5	6.5	3203
Replace piston rings – includes deglazing cylinder	one cylinder	3.1	3.1	3.5	3.5	3206
	both cylinders	3.7	3.7	4.1	4.1	3216
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	5.3	5.7	5.7	3207
	both pistons and cylinders	5.9	5.9	6.3	6.3	3208
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" over-size or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.	one piston and cylinder	5.9	5.9	6.3	6.3	3211
	both pistons and cylinders	6.5	6.5	6.9	6.9	3212
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	4.1	4.1	3221
	both cylinders	4.9	4.9	5.3	5.3	3231
Replace cylinder and piston	one cylinder	3.0	3.0	3.4	3.4	3236
	both cylinders	3.5	3.5	3.9	3.9	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
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 or two same cylinder	1.4	1.4	1.8	1.8	3307
	on both cylinders	1.7	1.7	2.1	2.1	3310
Replace push rod, push rod cover and/or O-ring or quad seal	one or two same cylinder	1.4	1.4	1.8	1.8	3317
	one each cylinder	1.6	1.6	2.0	2.0	3318
Replace cam cover and/or gasket		1.6	1.6	2.0	2.0	3325
Replace primary cam chain, sprockets and/or fastener		1.7	1.7	2.1	2.1	3327
Replace primary cam chain tensioner		1.7	1.7	2.1	2.1	3328
Replace cam support plate/O-rings		2.8	2.8	3.2	3.2	3335
Replace cam support plate		2.8	2.8	3.2	3.2	3337
Replace cam support bearing/cams/secondary cam chain/tensioner		3.0	3.0	3.4	3.4	3338
Replace oil pump and/or O-rings		2.6	2.6	3.0	3.0	3341
Replace cam bearing crankcase	one bearing	2.8	2.8	3.2	3.2	3342
	two bearings	2.9	2.9	3.3	3.3	3343
By pass valve inspection		2.7	2.7	3.1	3.1	3354

Table 4-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
CRANKCASE						
Replace crankcases	California vehicles only –includes remove and install engine	8.0	8.0	---	8.4	3406
Replace crankcases	includes remove and install engine	7.9	7.9	8.3	8.3	3406
Seal crankcase only		6.8	6.8	7.1	7.1	3407
Replace flywheels	includes remove and install engine	7.5	7.5	7.9	7.9	3411
Replace right side main bearing	California vehicles only	7.5	7.5	---	7.9	3412
Replace right side main bearing		7.4	7.4	7.8	7.8	3412
Replace left side main bearing	California vehicles only	6.8	6.8	---	7.1	3410
Replace left side main bearing		6.7	6.7	7.0	7.0	3410
Piston jet/O-ring	one	3.0	3.0	3.4	3.4	3413
	both	3.4	3.4	3.8	3.8	3414
Filter housing and or O-rings		0.2	0.2	0.2	0.2	3415
Replace crankcase vent hose and/or fittings		0.2	0.2	0.2	0.2	3417
Replace crankcase oil hose and/or fittings	Feed	0.3	0.3	0.3	0.3	3418
	Return	0.3	0.3	0.3	0.3	3419
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		0.2	0.2	0.2	0.2	3501
Replace air cleaner cover		0.1	0.1	0.1	0.1	3502
Replace induction module	includes making cruise control adjustment	1.2	1.2	1.2	1.2	3508
Replace induction module seal		1.2	1.2	1.2	1.2	3510
Replace external fuel supply hose		0.2	0.2	0.2	0.2	3514
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

Table 4-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
DRIVE						
Adjust primary chain		0.2	0.2	0.2	0.2	---
Replace primary inspection cover and/or O-ring		0.1	0.1	0.1	0.1	4001
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		0.6	0.6	0.6	0.6	4007
Replace inner primary case and/or seals or mainshaft bearing		2.1	2.1	2.1	2.1	4008
Replace primary cover gasket		0.6	0.6	0.6	0.6	4009
Replace shift lever	heel or toe shifter	0.1	0.1	0.1	0.1	4012
CLUTCH						
Adjust clutch		0.2	0.2	0.2	0.2	---
Replace release cable assembly		1.2	1.2	1.4	1.4	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 (ball ramp) and/or side cover		1.6	1.6	1.7	1.7	4018

Table 4-5. Transmission

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
TRANSMISSION CASE						
Replace transmission case		5.3	5.3	5.6	5.6	4304
Replace transmission complete		4.9	4.9	5.2	5.2	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		0.7	0.7	0.7	0.7	4331
Replace shifter arm assembly or springs		3.0	3.0	3.0	3.0	4336
Replace transmission top cover and/or gasket		0.6	0.6	0.6	0.6	4341
Replace shifter forks and/or shaft		1.8	1.8	1.8	1.8	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

Table 4-5. Transmission

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
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 transmission side cover gasket		0.9	0.9	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	0.9	0.9	4378
Replace oil fill tube and/or cover, and/or gasket		0.4	0.4	0.4	0.4	4379
Replace transmission shift shaft seal		2.2	2.2	2.2	2.2	4390

Table 4-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
GENERAL						
Check and diagnose the electrical system lights and accessories	excluding turn signals	0.3	0.3	0.3	0.3	5016
Replace connector housing		0.1	0.1	0.1	0.1	5022
Replace connector anchor		0.1	0.1	0.1	0.1	5023
CHARGING CIRCUIT						
Diagnose charging system	regulator inspection	0.1	0.1	0.1	0.1	5306
Diagnose charging system	regulator bleed	0.9	0.9	0.9	0.9	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
Replace regulator/stator connector		0.2	0.2	0.2	0.2	5311
Diagnose charging system	open grounded stator	1.8	1.8	1.8	1.8	5312
Diagnose system	AC output	1.8	1.8	1.8	1.8	5314
Diagnose charging system	regulator failure	1.0	1.0	1.0	1.0	5315
Diagnose charging system	voltage output	1.0	1.0	1.0	1.0	5316
Diagnose charging system	replace rotor	1.3	1.3	1.3	1.3	5319
STARTER CIRCUIT						
Starter inoperative	open/shorted/grounded motor	1.4	1.4	1.4	1.4	5817
Starter inoperative	start button	1.0	1.0	1.0	1.0	5818
Starter inoperative	solenoid clicks; poor starter or battery connections	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.2	5824
Starter inoperative	damaged motor	1.4	1.4	1.4	1.4	5825
Starter inoperative	relay click; open in relay wiring	0.3	0.3	0.3	0.3	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	0.5	0.5	0.5	0.5	5831
Starter inoperative	starter relay	0.4	0.4	0.4	0.4	5832

Table 4-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
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	1.5	1.5	1.5	1.5	5837
Starter inoperative	nothing clicks; TSM/TSSM	0.4	0.4	0.4	0.4	5838
Replace starter solenoid contacts	includes starter motor removal	1.6	1.6	1.6	1.6	5845
Starter binding		1.6	1.6	1.6	1.6	5850
Replace starter solenoid coil	includes starter motor removal	1.6	1.6	1.6	1.6	5860
Starter Inoperative – nothing clicks	TSM/TSSM	0.2	0.2	0.2	0.2	6791
Starter Inoperative – nothing clicks	connector	0.1	0.1	0.1	0.1	6792
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	0.3	6793
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	0.3	6805
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	0.3	6806
WIRING						
Replace main wiring harness		3.6	3.6	3.6	3.6	5026
Replace audio harness		---	---	1.8	1.8	5027
Main harness	locate and repair open/short	0.5	0.5	0.5	0.5	5028
Replace EFI harness		1.7	1.7	1.7	1.7	5033
Replace rear fender wiring harness		0.8	0.8	0.8	0.8	5036
Replace any single wire	ground wire	0.4	0.4	0.4	0.4	5038
	light circuit	0.2	0.2	0.2	0.2	5039
	accessory circuit	0.2	0.2	0.2	0.2	5043
Repair/diagnose indicator lamp wiring		0.3	0.3	0.3	0.3	5048
Replace front fender wiring harness		0.9	0.9	0.9	0.9	5049
Replace inter connect harness		0.5	0.5	0.5	0.5	5052
Interconnect harness	repair short	0.5	0.5	0.5	0.5	6531
Interconnect harness	repair open	0.5	0.5	0.5	0.5	6532
Handlebar harness	repair short	0.4	0.4	0.4	0.4	6551
Handlebar harness	repair open	0.4	0.4	0.4	0.4	6552
Audio harness	repair short	---	---	0.5	0.5	6560
Audio harness	repair open	---	---	0.5	0.5	6561
Replace front headset harness		---	---	0.6	0.6	6616
SWITCHES						
Replace ignition switch		0.5	0.5	0.5	0.5	5129
Replace rear stoplight switch		0.5	0.5	0.5	0.5	5141
Replace fuse		0.2	0.2	0.2	0.2	5145
Replace main circuit breaker		0.2	0.2	0.2	0.2	5147
Replace fuse block	one	0.3	0.3	0.3	0.3	5148
Replace fuse block	two	0.5	0.5	0.5	0.5	5151
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
Replace rear stoplight relay		0.2	0.2	0.2	0.2	5169
Replace left handlebar switch		0.5	0.5	0.5	0.5	5171
Replace right handlebar switch		0.7	0.7	0.7	0.7	5173
Replace front brake light switch		0.7	0.7	0.7	0.7	5176

Table 4-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
Replace left upper handlebar switch housing		0.2	0.2	0.2	0.2	5177
Replace left lower handlebar switch housing		0.3	0.3	0.3	0.3	5178
Replace right upper handlebar switch housing		0.2	0.2	0.2	0.2	5179
Replace right lower handlebar switch housing		0.7	0.7	0.7	0.7	5180
Replace handlebar (cruise set) switch		---	---	1.2	1.2	5182
Replace handlebar mode switch		1.1	1.1	1.1	1.1	5183
Replace handlebar (PTT) switch		---	---	0.8	0.8	5184
Replace handlebar audio switch		1.0	1.0	1.0	1.0	5186
Replace any fairing switch		0.4	0.4	0.4	0.4	5192
Replace passenger switch	volume/PTT switch	---	---	0.6	0.6	6627
LIGHTS						
Replace headlight	includes diagnosis	0.1	0.1	0.1	0.1	5185
Replace headlight housing	includes adjustment	0.2	0.2	0.2	0.2	5189
Replace instrument panel bulb	includes diagnosis	0.2	0.2	0.2	0.2	5193
Replace taillight bulb or single light bulb or lens	includes diagnosis	0.1	0.1	0.1	0.1	5197
Replace turn signal light assembly	front	0.4	0.4	0.4	0.4	5201
	rear	0.4	0.4	0.4	0.4	5205
Replace rear turn signal bar		0.4	0.4	0.4	0.4	5207
Replace taillight assembly or circuit board		0.2	0.2	0.2	0.2	5215
Replace fender tip light bulb or lens	front	0.1	0.1	0.1	0.1	5217
	rear	0.1	0.1	0.1	0.1	5221
Replace fender tip lamp assembly	front	0.2	0.2	0.2	0.2	5225
	rear	0.3	0.3	0.3	0.3	5229
Replace passing lamp bulb		0.1	0.1	0.1	0.1	5227
Replace passing lamp assembly		0.4	0.4	0.4	0.4	5230
Replace passing lamp bracket		0.7	0.7	0.7	0.7	5232
Replace King Tour-Pak light bulb or lens	includes diagnosis	0.2	0.2	0.2	0.2	5233
Replace King Tour-Pak lower light assembly		0.5	0.5	0.5	0.5	5234
Replace King Tour-Pak wrap-around light assembly		---	---	0.8	0.8	5235
TURN SIGNALS/SECURITY SYSTEM						
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 Touring Service Manual, Part No. 99483-03 and Electrical Diagnostics Manual, Part No. 99497-03.						
No security lamp		0.5	0.5	0.5	0.5	6735
No security lamp		0.5	0.5	0.5	0.5	6736
No security lamp		0.5	0.5	0.5	0.5	6737
No security lamp		0.5	0.5	0.5	0.5	6738
No security lamp		0.1	0.1	0.1	0.1	6739
No security lamp		0.2	0.2	0.2	0.2	6740
No security lamp		0.3	0.3	0.3	0.3	6741
No security lamp		0.3	0.3	0.3	0.3	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

Table 4-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
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		0.4	0.4	0.4	0.4	6751
Security lamp on continuously		0.5	0.5	0.5	0.5	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 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 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		0.4	0.4	0.4	0.4	6810
Turn signal error 3D		0.8	0.8	0.8	0.8	6811
Turn signal error 3D		0.5	0.5	0.5	0.5	6812
Turn signal error 3D		0.4	0.4	0.4	0.4	6813
Turn signal error 3D		0.5	0.5	0.5	0.5	6814
Turn signal error 3D		0.8	0.8	0.8	0.8	6815
Turn signal error 3D		0.5	0.5	0.5	0.5	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		0.4	0.4	0.4	0.4	6822
Turn signal error 4A	Does not include lamp assembly replacement	0.3	0.3	0.3	0.3	6823
Turn signal error 4A		0.5	0.5	0.5	0.5	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

Table 4-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
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
Sidecar Bank angle sensor		---	---	0.3	---	6846
Sidecar Bank angle sensor		---	---	0.3	---	6847
Sidecar Bank angle sensor		---	---	0.3	---	6848
BATTERY/HORN						
Replace the battery	includes diagnosis	0.3	0.3	0.3	0.3	5705
Replace horn and/or bracket		0.1	0.1	0.1	0.1	5765
Replace battery tray		0.5	0.5	0.5	0.5	5767
Replace battery cable		0.2	0.2	0.2	0.2	5769
INSTRUMENTS – INCLUDES DIAGNOSIS						
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
Replace speedometer	cosmetics only	0.3	0.3	0.3	0.3	6003
Diagnose inoperative, inaccurate or erratic speedometer	wiring	0.2	0.2	0.2	0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer	replace	0.5	0.5	0.5	0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer	wiring	0.4	0.4	0.4	0.4	6008
Replace tachometer		0.3	0.3	0.3	0.3	6009
Diagnose inoperative, inaccurate or erratic speedometer	sensor	0.5	0.5	0.5	0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer	open	0.6	0.6	0.6	0.6	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	0.4	0.4	0.4	0.4	6016
Replace indicator panel lens		0.3	0.3	0.3	0.3	6018
Odometer inoperable		0.3	0.3	0.3	0.3	6020
Replace voltmeter or fuel gauge		0.3	0.3	0.3	0.3	6021
Diagnose inoperative, inaccurate or erratic speedometer	internal	0.5	0.5	0.5	0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer	power/ground	0.5	0.5	0.5	0.5	6024
Replace oil pressure or air temperature gauge		0.3	0.3	0.3	0.3	6026
Replace ambient temperature sensor		0.3	0.3	0.3	0.3	6028
Diagnose inoperative, inaccurate, or erratic speedometer	debris or sensor	0.5	0.5	0.5	0.5	6029
Replace low fuel module		0.3	0.3	0.3	0.3	6030

Table 4-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	0.1	0.1	6043
SOUND SYSTEM – DIAGNOSIS, REPAIR						
Replace radio chassis	includes SWR check	0.4	0.4	0.4	0.4	6601
Complete CB antenna inspection	includes checking SWR	---	---	0.2	0.2	6602
Replace one front speaker		0.3	0.3	0.3	0.3	6605
Replace one rear speaker		---	---	0.2	0.2	6606
Replace one speaker grill	front	0.2	0.2	0.2	0.2	6607
	rear	---	---	0.1	0.1	6612
Replace rear speaker housing	right side	---	---	0.3	0.3	6608
	left side	---	---	0.3	0.3	6610
Replace front antenna lead	includes checking SWR	0.8	0.8	1.8	1.8	6609
Replace antenna mast mount		0.2	0.2	0.2	0.2	6611
Replace CB antenna mast	includes checking SWR	---	---	0.3	0.3	6613
Replace stereo antenna mast		0.3	0.3	0.3	0.3	6617
Replace CB loading coil	includes checking SWR	---	---	0.3	0.3	6618
Replace front headset DIN cover		---	---	0.3	0.3	6619
Replace console housing		---	---	0.3	0.3	6623
Replace rear headset DIN cover		---	---	0.1	0.1	6628
CRUISE CONTROL – DIAGNOSIS, REPAIR						
Replace throttle control cable	one or more - includes all diagnostics and adjustments	---	---	0.8	0.8	2241
Main harness	locate and repair open/short	---	---	0.5	0.5	5028
Replace any single wire	ground wire	---	---	0.4	0.4	5038
Replace rear stoplight switch		---	---	0.5	0.5	5141
Replace fuse		---	---	0.2	0.2	5145
Replace rear stoplight relay		---	---	0.2	0.2	5169
Replace front brake light switch		---	---	0.7	0.7	5176
Replace handlebar (cruise set) switch		---	---	1.2	1.2	5182
Replace any fairing switch		---	---	0.4	0.4	5192
Replace tachometer		---	---	0.3	0.3	6009
Interconnect harness	repair short	---	---	0.5	0.5	6531
Interconnect harness	repair open	---	---	0.5	0.5	6532
Handlebar harness	repair open	---	---	0.4	0.4	6552
Replace cruise cable		---	---	0.5	0.4	6630
Replace cruise module	includes diagnosis	---	---	0.7	0.7	6635
Replace speedometer		---	---	0.4	0.4	6769

Table 4-7. FLHTC-I and FLHTCU-I Accessories

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
ACCESSORIES						
Replace windshield		0.1	0.1	0.1	0.1	6203
Replace one wind deflector		---	---	0.1	0.1	6205
Replace instrument panel support housing or inner fairing		1.8	1.8	1.9	1.9	6209
Replace saddlebag mounting bracket		0.2	0.2	0.2	0.2	6253
Replace saddlebag guard	complete	0.3	0.3	0.3	0.3	6254
Replace outer fairing or support brace		0.3	0.3	0.3	0.3	6255
Replace a single saddlebag guard rail		0.2	0.2	0.2	0.2	6256
Replace a saddlebag		0.2	0.2	0.2	0.2	6257
Replace saddlebag lock		0.2	0.2	0.2	0.2	6259
Replace saddlebag cover	one	0.2	0.2	0.2	0.2	6260
Replace Tour-Pak lock or latch		0.2	0.2	0.2	0.2	6261
Replace one saddlebag tether strap		0.1	0.1	0.1	0.1	6262
Replace one frame sidecover		0.1	0.1	0.1	0.1	6263
Replace Tour-Pak hinge		0.3	0.3	0.3	0.3	6264
Replace inner fairing bracket		0.8	0.8	0.9	0.9	6265
Replace Nameplate Tour-Pak		0.2	0.2	0.2	0.2	6266
Replace Tour-Pak cover		0.7	0.7	0.7	0.7	6270
Replace fairing cap		0.3	0.3	0.3	0.3	6271
Replace one fairing lower and/or glove compartment		---	---	0.2	0.2	6272
Replace chrome fairing skirt		0.2	0.2	0.2	0.2	6273
Change Lock-set		0.5	0.5	0.5	0.5	6276
Replace bumper	front	0.3	0.3	0.3	0.3	6303
	rear	0.2	0.2	0.2	0.2	6305
Replace highway bar	front	0.3	0.3	0.7	0.6	6353
	rear – left	0.3	0.3	0.3	0.3	6355
	rear – right	0.4	0.4	0.4	0.4	6357
Replace Tour-Pak mount/luggage rack		0.7	0.7	0.8	0.8	6453
Replace Tour-Pak	includes lights and brackets, antenna assembly, backrest, and rear speakers	0.9	0.9	2.6	2.6	6509
Replace mirror		0.1	0.1	0.1	0.1	6513
Replace backrest		0.2	0.2	0.2	0.2	6515

Table 4-8. Sidecars

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
2001 ULTRAS WITH ACCESSORY SIDECAR						
Replace sidecar windshield		0.2	0.2	0.2	0.2	6901
Replace sidecar fender		0.8	0.8	0.8	0.8	6904
Replace seat		0.2	0.2	0.2	0.2	6907
Replace seat cable		0.5	0.5	0.5	0.5	6910
Replace liner (carpeting)		0.4	0.4	0.4	0.4	6913

Table 4-8. Sidecars

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
Replace armrest storage pouch		0.2	0.2	0.2	0.2	6916
Replace armrest		0.2	0.2	0.2	0.2	6919
Replace handles		0.1	0.1	0.1	0.1	6922
Replace brake pads		0.2	0.2	0.2	0.2	6926
Replace brake caliper		0.3	0.3	0.3	0.3	6927
Replace brake disc		0.3	0.3	0.3	0.3	6929
Replace wheel		0.7	0.7	0.7	0.7	6931
Replace axle		0.8	0.8	0.8	0.8	6934
Repair/replace audio harness		1.0	1.0	1.0	1.0	6940
Replace speaker		0.5	0.5	0.5	0.5	6943
Replace speaker pod		0.6	0.6	0.6	0.6	6946
Replace amplifier		0.6	0.6	0.6	0.6	6949
Removal of sidecar for service and reattachment	includes realignment	1.1	1.1	1.1	1.1	6954
Sidecar alignment		0.8	0.8	0.8	0.8	6956
Sidecar tub removal		0.3	0.3	0.3	0.3	6958

Table 4-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the Touring Service Manual, Part No. 99483-03 and Electrical Diagnostic Manual, Part No. 99497-03.						
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	6013
Password problem		0.4	0.4	0.4	0.4	6701
Password problem		0.4	0.4	0.4	0.4	6702
Password problem		0.6	0.6	0.6	0.6	6703
Password problem		0.4	0.4	0.4	0.4	6704
Password problem		0.5	0.5	0.5	0.5	6705
Password problem		0.3	0.3	0.3	0.3	6706
Password problem		0.6	0.6	0.6	0.6	6707
Password problem		0.8	0.8	0.8	0.8	6708
Loss of TSM / TSSM serial data		0.4	0.4	0.4	0.4	6715
Loss of TSM / TSSM serial data		0.6	0.6	0.6	0.6	6716
Loss of TSM / TSSM serial data		0.6	0.6	0.6	0.6	6717
Loss of TSM / TSSM serial data		0.5	0.5	0.5	0.5	6718
Loss of TSM / TSSM serial data		0.4	0.4	0.4	0.4	6719
Diagnostic Check		0.2	0.2	0.2	0.2	7110
Diagnostic Check		0.4	0.4	0.4	0.4	7115
Diagnostic Check		0.4	0.4	0.4	0.4	7120
Diagnostic Check		0.8	0.8	0.8	0.8	7125
Diagnostic Check		0.8	0.8	0.8	0.8	7126
Starts, then stalls; no DTCs		0.4	0.4	0.4	0.4	7127
Starts, then stalls; no DTCs		0.3	0.3	0.3	0.3	7128
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7130
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7133

Table 4-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
Misfire at idle or under load		0.3	0.3	0.3	0.3	7134
Rough or rolling idle		0.3	0.3	0.3	0.3	7134
Misfire at idle or under load		0.3	0.3	0.3	0.3	7136
Rough or rolling idle		0.3	0.3	0.3	0.3	7136
Misfire at idle or under load		0.6	0.6	0.6	0.6	7137
Rough or rolling idle		0.6	0.6	0.6	0.6	7137
Misfire at idle or under load		0.7	0.7	0.7	0.7	7138
Rough or rolling idle		0.7	0.7	0.7	0.7	7138
Misfire at idle or under load		0.6	0.6	0.6	0.6	7139
Rough or rolling idle		0.6	0.6	0.6	0.6	7139
No check engine lamp/No ECM Power		0.4	0.4	0.4	0.4	7141
No check engine lamp/No ECM Power		0.1	0.1	0.1	0.1	7142
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7143
Misfire at idle or under load		0.9	0.9	0.9	0.9	7144
Rough or rolling idle		0.9	0.9	0.6	0.9	7144
No check engine lamp/No ECM Power		0.5	0.5	0.5	0.5	7146
Misfire at idle or under load		0.5	0.5	0.5	0.5	7147
Rough or rolling idle		0.5	0.5	0.5	0.5	7147
Check engine lamp on continuously		0.2	0.2	0.2	0.2	7148
Misfire at idle or under load		0.9	0.9	0.9	0.9	7149
Rough or rolling idle		0.9	0.9	0.9	0.9	7149
Check engine lamp on continuously		0.7	0.7	0.7	0.7	7150
Misfire at idle or under load		0.6	0.6	0.6	0.6	7152
Rough or rolling idle		0.6	0.6	0.6	0.6	7152
Check engine lamp on continuously		0.3	0.3	0.3	0.3	7155
Check engine lamp on continuously		0.2	0.2	0.2	0.2	7156
Check engine lamp on continuously		0.1	0.1	0.1	0.1	7157
Engine cranks but will not start		0.6	0.6	0.6	0.6	7185
Engine cranks but will not start		0.5	0.5	0.5	0.5	7195
Engine cranks but will not start		0.5	0.5	0.5	0.5	7210
Engine cranks but will not start		0.4	0.4	0.4	0.4	7215
Engine cranks but will not start		0.5	0.5	0.5	0.5	7223
Engine cranks but will not start		0.4	0.4	0.4	0.4	7224
Engine cranks but will not start		0.5	0.5	0.5	0.5	7225
Engine cranks but will not start		0.8	0.8	0.8	0.8	7226
Engine cranks but will not start		0.7	0.7	0.7	0.7	7227
Engine cranks but will not start		0.5	0.5	0.5	0.5	7228
Engine cranks but will not start		0.5	0.5	0.5	0.5	7230
Engine cranks but will not start		0.6	0.6	0.6	0.6	7231
Engine cranks but will not start		0.5	0.5	0.5	0.5	7235
Engine cranks but will not start		0.9	0.9	0.9	0.9	7251
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7270
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7285
No check engine lamp/No ECM Power		0.9	0.9	0.9	0.9	7286
No check engine lamp/No ECM Power		1.2	1.2	1.2	1.2	7287
No check engine lamp/No ECM Power		0.9	0.9	0.9	0.9	7288

Table 4-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
No check engine lamp/No ECM Power		0.9	0.9	0.9	0.9	7289
No check engine lamp/No ECM Power		0.5	0.5	0.5	0.5	7290
No check engine lamp/No ECM Power		1.5	1.5	1.5	1.5	7295
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7301
No check engine lamp/No ECM Power		0.1	0.1	0.1	0.1	7302
No check engine lamp/No ECM Power		0.8	0.8	0.8	0.8	7303
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7304
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7305
No check engine lamp/No ECM Power		0.5	0.5	0.5	0.5	7306
No check engine lamp/No ECM Power		0.8	0.8	0.8	0.8	7307
No check engine lamp/No ECM Power		0.7	0.7	0.7	0.7	7308
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7309
No check engine lamp/No ECM Power		0.6	0.6	0.6	0.6	7310
No check engine lamp/No ECM Power		0.3	0.3	0.3	0.3	7320
Fuel system electrical test		0.2	0.2	0.2	0.2	7335
Fuel system electrical test		0.7	0.7	0.7	0.7	7336
Engine cranks but will not start; Fuel system electrical test		0.6	0.6	0.6	0.6	7340
Engine cranks but will not start; Fuel system electrical test		0.5	0.5	0.5	0.5	7355
Fuel system electrical test		0.3	0.3	0.3	0.3	7360
Fuel system electrical test		0.8	0.8	0.8	0.8	7370
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	0.4	7380
Fuel system electrical test		0.3	0.3	0.3	0.3	7385
Engine cranks but will not start; Fuel system electrical test		0.9	0.9	0.9	0.9	7415
Fuel system electrical test		0.3	0.3	0.3	0.3	7440
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	0.4	7441
Fuel system electrical test		0.2	0.2	0.2	0.2	7445
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	0.4	7450
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		0.5	0.5	0.5	0.5	7490
Idle air control		0.5	0.5	0.5	0.5	7495
Idle air control		0.6	0.6	0.6	0.6	7505
Idle air control		0.5	0.5	0.5	0.5	7510
Idle air control		0.4	0.4	0.4	0.4	7515
Idle air control		0.6	0.6	0.6	0.6	7516
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	0.4	7520
Misfire at idle or under load		0.4	0.4	0.4	0.4	7520
Misfire at idle or under load		0.2	0.2	0.2	0.2	7525

Table 4-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
Misfire at idle or under load		0.4	0.4	0.4	0.4	7535
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
Misfire at idle or under load		0.3	0.3	0.3	0.3	7540
Combustion absent		0.2	0.2	0.2	0.2	7543
Combustion absent		0.4	0.4	0.4	0.4	7544
Misfire at idle or under load		0.2	0.2	0.2	0.2	7545
Combustion absent		0.2	0.2	0.2	0.2	7546
Combustion absent		0.4	0.4	0.4	0.4	7547
Combustion absent		0.1	0.1	0.1	0.1	7548
Combustion absent		0.1	0.1	0.1	0.1	7549
Misfire at idle or under load		0.4	0.4	0.4	0.4	7550
Throttle position sensor		0.5	0.5	0.5	0.5	7555
Throttle position sensor		0.5	0.5	0.5	0.5	7560
Throttle position sensor		0.6	0.6	0.6	0.6	7565
Throttle position sensor		0.4	0.4	0.4	0.4	7570
Throttle position sensor		0.5	0.5	0.5	0.5	7575
Throttle position sensor		0.5	0.5	0.5	0.5	7580
Throttle position sensor		0.5	0.5	0.5	0.5	7585
Throttle position sensor		0.7	0.7	0.7	0.7	7590
Throttle position sensor		0.3	0.3	0.3	0.3	7595
Emits black smoke		2.0	2.0	2.0	2.0	7596
Emits black smoke		2.0	2.0	2.0	2.0	7597
Emits black smoke		2.0	2.0	2.0	2.0	7598
Emits black smoke		2.2	2.2	2.2	2.2	7601
Throttle position sensor		0.7	0.7	0.7	0.7	7605
Throttle position sensor		0.5	0.5	0.5	0.5	7610
Throttle position sensor		0.8	0.8	0.8	0.8	7615
MAP sensor		0.8	0.8	0.8	0.8	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		0.6	0.6	0.6	0.6	7635
MAP sensor		0.6	0.6	0.6	0.6	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		0.6	0.6	0.6	0.6	7645
MAP sensor		0.6	0.6	0.6	0.6	7650
MAP sensor		0.7	0.7	0.7	0.7	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		0.4	0.4	0.4	0.4	7680
Engine temperature sensor		0.4	0.4	0.4	0.4	7685
Engine temperature sensor		0.3	0.3	0.3	0.3	7690

Table 4-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
Engine temperature sensor		0.5	0.5	0.5	0.5	7695
Engine temperature sensor		0.3	0.3	0.3	0.3	7705
Engine temperature sensor		0.4	0.4	0.4	0.4	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	1.0	1.0	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	1.0	1.0	0.9	7783
Battery voltage test		1.2	1.2	1.2	1.1	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		0.7	0.7	0.7	0.7	7795
Fuel injectors		0.6	0.6	0.6	0.6	7805
Fuel injectors		0.6	0.6	0.6	0.6	7808
Fuel injectors		0.5	0.5	0.5	0.5	7809
Fuel injectors		0.6	0.6	0.6	0.6	7815
Fuel injectors		0.6	0.6	0.6	0.6	7820
Fuel injectors		0.7	0.7	0.7	0.7	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		0.7	0.7	0.7	0.7	7850
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		0.4	0.4	0.4	0.4	7860
Ignition coil test		0.3	0.3	0.3	0.3	7865
Ignition coil test		0.5	0.5	0.5	0.5	7870
Ignition coil test		0.4	0.4	0.4	0.4	7875
Ignition coil test		0.2	0.2	0.2	0.2	7880
System relay		0.2	0.2	0.2	0.2	7887
System relay		0.3	0.3	0.3	0.3	7888

Table 4-9. Fuel Injection

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FFW	FKW	FGW	FCW/FLW	
System relay		0.4	0.4	0.4	0.4	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		0.4	0.4	0.4	0.4	7901
System relay		0.4	0.4	0.4	0.4	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		0.4	0.4	0.4	0.4	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		0.3	0.3	0.3	0.3	7911
System relay		0.4	0.4	0.4	0.4	7912
ECM failure		0.3	0.3	0.3	0.3	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		0.5	0.5	0.5	0.5	7957
Vehicle speed signal		0.3	0.3	0.3	0.3	7958
Vehicle speed signal		0.4	0.4	0.4	0.4	7959
Vehicle speed signal		0.3	0.3	0.3	0.3	7961
Vehicle speed signal		0.3	0.3	0.3	0.3	7962
Vehicle speed signal		0.3	0.3	0.3	0.3	7963
Vehicle speed signal		0.3	0.3	0.3	0.3	7964
Crank position sensor		0.5	0.5	0.5	0.5	7980
Crank position sensor		0.4	0.4	0.4	0.4	7981
Crank position sensor		0.3	0.3	0.3	0.3	7982
Crank position sensor		0.5	0.5	0.5	0.5	7983
Crank position sensor		0.2	0.2	0.2	0.2	7984
Crank position sensor		0.4	0.4	0.4	0.4	7985
Crank position sensor		0.5	0.5	0.5	0.5	7986
Crank position sensor		0.4	0.4	0.4	0.4	7987
Engine cranks but will not start; Fuel system electrical test		0.7	0.7	0.7	0.7	7992
Starts, then stalls		0.7	0.7	0.7	0.7	7992
Starts, then stalls		0.6	0.6	0.6	0.6	7993
Starts, then stalls		0.3	0.3	0.3	0.3	7994
Starts, then stalls		0.3	0.3	0.3	0.3	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

2003 FL POLICE MODELS

Table 5-1. Service

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
NEW				
Set-up and pre-delivery		2.5	2.5	---
1,000 mile service		3.4	3.4	---
REGULAR				
2,500 mile maintenance		0.7	0.7	---
5,000 mile maintenance		1.8	1.8	---
7,500 mile maintenance		0.7	0.7	---
10,000 mile maintenance		3.5	3.5	---
20,000 mile maintenance		6.4	4.2	---
25,000 mile maintenance		2.3	2.3	---
50,000 mile maintenance		6.5	6.5	---

Table 5-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
DRIVE				
Adjust secondary belt		0.2	0.2	---
Replace secondary belt		3.7	3.7	2011
Replace rear wheel sprocket		0.9	0.9	2021
WHEELS				
Replace tire - includes balancing	front	0.6	0.6	2106
	rear	0.8	0.8	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing	front	0.8	0.8	2113
	rear	1.3	1.3	2114
Replace wheel bearings	front	0.6	0.6	2136
	rear	0.8	0.8	2143
HANDLEBARS				
Replace handlebars		1.2	1.2	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		1.0	1.0	2246
Replace rubber handlebar grip		0.2	0.2	2251

All times listed in hours.

V.I.N. CODES

FMW	FLHTP-I (FUEL INJECTED W/FAIRING)
FHW	FLHP-I (FUEL INJECTED)
FTW	FLHPE-I (CA AND JAPAN)

Table 5-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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				
Adjust steering head bearings		0.7	0.7	----
Change front fork oil	both sides	2.9	0.7	----
Replace frame	includes removal and installation of all accessories and motorcycle components	17.0	17.0	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
Replace front nacelle		---	0.6	2331
Replace complete lock set		0.3	---	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	2.9	2.3	2342
	right side	2.4	---	2343
	left side	2.7	---	2344
Replace fork side	one side	1.2	1.2	2346
	both sides	1.5	1.5	2351
Replace fork tube	one side	---	1.4	2356
	right side	1.9	---	2357
	left side	2.7	---	2358
	both sides	2.9	1.7	2361
Replace rear swing arm and/or bearings		1.9	1.9	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	0.6	2376
Replace rear shock air line		0.2	0.2	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 footboard	each	0.2	0.2	2394
Replace rubber motor mount	rear right	0.5	0.5	2395
	rear left	0.3	0.3	2397
	front	0.4	0.4	2398
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	0.3	0.3	2421
Replace brake caliper – includes filling/bleeding brakes	front – each cylinder	0.4	0.4	2426
	rear	1.0	1.0	2431

Table 5-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
Replace brake disc	front – one side	0.3	0.3	2436
	front – both sides	0.4	0.4	2437
	rear	1.0	1.0	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	1.3	1.3	2531
Replace rear fender support	one only	0.1	0.1	2536
Replace fuel tank assembly		1.3	1.3	2541
Replace fuel tank console/instrument panel		0.3	0.3	2553
Replace fuel tank console rubber mounting strip		0.2	0.2	2557
Replace fuel tank gauge		---	0.3	2563
Replace fuel gauge sending unit		0.5	0.5	2564
Replace fuel tank check valve assembly		0.6	0.6	2567
Replace canopy gasket		0.4	0.4	2570
Replace fuel filter		0.5	0.5	2575
Replace any hose		0.3	0.3	2576
Replace fuel hose inside tank		0.5	0.5	2579
Replace oil filter		0.1	0.1	2582
BELT GUARDS				
Replace debris deflector (belt drive)		0.1	0.1	2616
EXHAUST SYSTEM				
Replace complete exhaust system and/or gaskets		1.0	1.0	2626
Replace exhaust pipe	right side	0.9	0.9	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

Table 5-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
GENERAL				
Remove and install engine		4.5	4.5	3006
Replace and adjust stabilizer	top	0.7	0.7	3005
Replace and adjust stabilizer	front	0.3	0.3	3007
Remove and replace oil pan 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
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
Replace piston rings – includes deglazing cylinder	one cylinder	3.1	3.1	3206
	both cylinders	3.7	3.7	3216
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
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

Table 5-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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 or two same cylinder	1.4	1.4	3307
	on both cylinders	1.7	1.7	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
CRANKCASE				
Replace crankcases	includes remove and install engine	7.9	7.9	3406
Seal crankcase only		6.7	6.7	3407
Replace flywheels	includes remove and install engine	7.5	7.5	3411
Replace right side main bearing		7.4	7.4	3412
Replace left side main bearing		6.9	6.9	3410
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
Replace crankcase vent hose and/or fittings		0.2	0.2	3417
Replace crankcase oil hose and/or fittings	Feed	0.3	0.3	3418
	Return	0.3	0.3	3419
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

Table 5-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
FUEL SYSTEM				
Replace air cleaner backing plate		0.2	0.2	3501
Replace air cleaner cover		0.1	0.1	3502
Replace induction module		1.2	1.2	3508
Replace induction module seal		1.2	1.2	3510
Replace external fuel supply/return hose	one or both	0.2	0.2	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

Table 5-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
DRIVE				
Adjust primary chain		0.2	0.2	----
Replace primary inspection cover and/or O-ring		0.1	0.1	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		0.6	0.6	4007
Replace inner primary case &/or seals or bearing		2.1	2.1	4008
Replace primary cover gasket		0.6	0.6	4009
Replace shift lever	heel or toe	0.1	0.1	4012
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

Table 5-5. Transmission

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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		0.7	0.7	4331
Replace shifter arm assembly or springs		3.0	3.0	4336
Replace transmission top cover and/or gasket		0.6	0.6	4341
Replace shifter forks and/or shaft		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	Removal of rear wheel may be necessary	0.9	0.9	4378
Replace oil fill tube and/or cover, and/or gasket		0.4	0.4	4379
Replace transmission shifter shaft seal		2.2	2.2	4390

Table 5-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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 2003 Touring Service Manual and Touring Electrical Diagnostic Manual, Part No. 99497-03.				
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	failed regulator bleed test	0.9	0.9	5307
Diagnose charging system	excessive 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 or grounded stator	1.8	1.8	5312
Diagnose system	failed AC output test	1.8	1.8	5314
Diagnose charging system	regulator failure	1.0	1.0	5315
Diagnose charging system	excessive voltage output (regulator)	1.0	1.0	5316
Diagnose charging system	replace rotor	1.3	1.3	5319

Table 5-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
STARTER CIRCUIT				
Starter inoperative	open/shorted/ground 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
Starter Inoperative – nothing clicks	TSM/TSSM	0.2	0.2	6791
Starter Inoperative – nothing clicks	connector	0.1	0.1	6792
Starter Inoperative – nothing clicks	open	0.3	0.3	6793
Starter Inoperative – nothing clicks	open	0.3	0.3	6805
Starter Inoperative – nothing clicks	open	0.3	0.3	6806
INSTRUMENTS				
Fuel gauge	see FUEL TANK	---	---	----
Diagnose inoperative, inaccurate or erratic speedometer switch		0.3	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer		0.1	0.1	6002
Replace speedometer	cosmetics only	0.3	0.2	6003
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	0.3	6008
Replace tachometer		0.3	0.3	6009
Diagnose inoperative, inaccurate or erratic speedometer	sensor	0.5	0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer	open	0.6	0.6	6013

Table 5-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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
Replace indicator panel lens		0.3	0.1	6018
Replace instrument housing (console)		---	0.3	6019
Odometer inoperable		0.2	0.2	6020
Replace voltmeter or fuel gauge		0.3	---	6021
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
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	6043
WIRING				
Replace main wiring harness		3.6	3.1	5026
Main harness	locate and repair, open/short	0.5	0.5	5028
Replace EFI harness		1.7	1.7	5033
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
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
Interconnect harness	repair short	0.5	---	6531
Interconnect harness	repair open	0.5	---	6532
Handlebar harness	repair short	0.4	0.4	6551
Handlebar harness	repair open	0.4	0.4	6552
SWITCHES				
Replace ignition switch		0.5	0.3	5129
Replace rear stoplight switch		0.5	0.4	5141
Replace main circuit breaker		0.2	0.2	5145
Replace fuse		0.2	0.2	5147
Replace fuse block	one	0.3	0.3	5148
	two	0.5	0.5	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		0.2	0.2	5169
Replace left handlebar switch		0.5	0.5	5171
Replace right handlebar switch		0.7	0.7	5173
Replace front brake light switch		0.6	0.6	5176

Table 5-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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 any fairing switch		0.4	---	5192
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 taillight bulbs or single light bulb or lens	includes diagnosis	0.1	0.1	5197
Replace turn signal light assembly	front	0.4	0.4	5201
	rear	0.4	0.4	5205
Replace rear turn signal light bar		0.4	0.4	5207
Replace taillight assembly or circuit board		0.2	0.2	5215
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
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 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

Table 5-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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 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	Does not include lamp assembly replacement	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	includes diagnosis	0.3	0.3	5705
Replace horn and/or bracket		0.1	0.1	5765
Replace battery tray		0.5	0.5	5767

Table 5-7. FL Police Accessories

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
ACCESSORIES				
Replace windshield		0.1	0.1	6203
Replace windshield bushing	all or one	---	0.2	6208
Replace inner fairing		1.7	---	6209
Replace spring clip on windshield		---	0.2	6210
Replace saddlebag mounting bracket		0.2	0.2	6253
Replace saddlebag guard	complete	0.3	0.3	6254
Replace outer fairing or support brace		0.3	---	6255
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 or latch		0.2	0.2	6261
Replace one frame sidecover		0.1	0.1	6263
Replace inner fairing bracket		0.7	---	6265
Replace fairing cap		0.3	---	6271
Replace chrome fairing skirt		0.2	---	6273
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	0.3	0.3	6355
	rear– right	0.4	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

Table 5-8. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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 Touring Service Manual and Touring Electrical Diagnostic Manual, Part No. 99497-03.				
No check engine lamp/No ECM Power		0.6	0.5	6013
Password problem		0.4	0.4	6701
Password problem		0.4	0.4	6702
Password problem		0.6	0.6	6703
Password problem		0.4	0.4	6704
Password problem		0.5	0.5	6705
Password problem		0.3	0.3	6706
Password problem		0.6	0.6	6707
Password problem		0.8	0.8	6708

Table 5-8. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
Loss of TSM / TSSM serial data		0.4	0.4	6715
Loss of TSM / TSSM serial data		0.6	0.6	6716
Loss of TSM / TSSM serial data		0.6	0.6	6717
Loss of TSM / TSSM serial data		0.5	0.5	6718
Loss of TSM / TSSM serial data		0.4	0.4	6719
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
Starts, then stalls; no DTCs		0.4	0.4	7127
Starts, then stalls; no DTCs		0.3	0.3	7128
No check engine lamp/No ECM Power		0.7	0.6	7130
No check engine lamp/No ECM Power		0.6	0.4	7133
Misfire at idle or under load		0.3	0.3	7134
Rough or rolling idle		0.3	0.3	7134
Misfire at idle or under load		0.3	0.3	7136
Rough or rolling idle		0.3	0.3	7136
Misfire at idle or under load		0.6	0.6	7137
Rough or rolling idle		0.6	0.6	7137
Misfire at idle or under load		0.7	0.7	7138
Rough or rolling idle		0.7	0.7	7138
Misfire at idle or under load		0.6	0.6	7139
Rough or rolling idle		0.6	0.6	7139
No check engine lamp/No ECM Power		0.4	0.4	7141
No check engine lamp/No ECM Power		0.1	0.1	7142
No check engine lamp/No ECM Power		0.6	0.5	7143
Misfire at idle or under load		0.9	0.9	7144
Rough or rolling idle		0.9	0.9	7144
No check engine lamp/No ECM Power		0.5	0.4	7146
Misfire at idle or under load		0.5	0.5	7147
Rough or rolling idle		0.5	0.5	7147
Check engine lamp on continuously		0.2	0.2	7148
Misfire at idle or under load		0.9	0.9	7149
Rough or rolling idle		0.9	0.9	7149
Check engine lamp on continuously		0.7	0.7	7150
Misfire at idle or under load		0.6	0.6	7152
Rough or rolling idle		0.6	0.6	7152
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		0.6	0.6	7185
Engine cranks but will not start		0.5	0.5	7195
Engine cranks but will not start		0.5	0.5	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

Table 5-8. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
Engine cranks but will not start		0.5	0.5	7225
Engine cranks but will not start		0.8	0.8	7226
Engine cranks but will not start		0.7	0.7	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 check engine lamp/No ECM Power		0.6	0.5	7270
No check engine lamp/No ECM Power		0.7	0.6	7285
No check engine lamp/No ECM Power		0.9	0.7	7286
No check engine lamp/No ECM Power		1.2	0.8	7287
No check engine lamp/No ECM Power		0.9	0.7	7288
No check engine lamp/No ECM Power		0.9	0.7	7289
No check engine lamp/No ECM Power		0.5	0.4	7290
No check engine lamp/No ECM Power		1.5	1.4	7295
No check engine lamp/No ECM Power		0.6	0.6	7301
No check engine lamp/No ECM Power		0.1	0.1	7302
No check engine lamp/No ECM Power		0.8	0.7	7303
No check engine lamp/No ECM Power		0.6	0.4	7304
No check engine lamp/No ECM Power		0.6	0.6	7305
No check engine lamp/No ECM Power		0.5	0.5	7306
No check engine lamp/No ECM Power		0.8	0.7	7307
No check engine lamp/No ECM Power		0.7	0.6	7308
No check engine lamp/No ECM Power		0.6	0.6	7309
No check engine lamp/No ECM Power		0.6	0.6	7310
No check engine lamp/No ECM Power		0.3	0.3	7320
Fuel system electrical test		0.2	0.2	7335
Fuel system electrical test		0.7	0.7	7336
Engine cranks but will not start; Fuel system electrical test		0.6	0.6	7340
Engine cranks but will not start; Fuel system electrical test		0.5	0.5	7355
Fuel system electrical test		0.3	0.3	7360
Fuel system electrical test		0.8	0.8	7370
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	7380
Fuel system electrical test		0.3	0.3	7385
Engine cranks but will not start; Fuel system electrical test		0.9	0.9	7415
Fuel system electrical test		0.3	0.3	7440
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	7441
Fuel system electrical test		0.2	0.2	7445
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	7450
Fuel pressure test		0.4	0.4	7455
Fuel pressure test		0.7	0.7	7465

Table 5-8. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
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		0.5	0.5	7490
Idle air control		0.5	0.5	7495
Idle air control		0.6	0.6	7505
Idle air control		0.5	0.5	7510
Idle air control		0.4	0.4	7515
Idle air control		0.6	0.6	7516
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	7520
Misfire at idle or under load		0.4	0.4	7520
Misfire at idle or under load		0.2	0.2	7525
Misfire at idle or under load		0.4	0.4	7535
Combustion absent		0.1	0.1	7537
Combustion absent		0.2	0.2	7538
Combustion absent		0.2	0.2	7539
Misfire at idle or under load		0.3	0.3	7540
Combustion absent		0.2	0.2	7543
Combustion absent		0.4	0.4	7544
Misfire at idle or under load		0.2	0.2	7545
Combustion absent		0.2	0.2	7546
Combustion absent		0.4	0.4	7547
Combustion absent		0.1	0.1	7548
Combustion absent		0.1	0.1	7549
Misfire at idle or under load		0.4	0.4	7550
Throttle position sensor		0.5	0.5	7555
Throttle position sensor		0.5	0.5	7560
Throttle position sensor		0.6	0.6	7565
Throttle position sensor		0.4	0.4	7570
Throttle position sensor		0.5	0.5	7575
Throttle position sensor		0.5	0.5	7580
Throttle position sensor		0.5	0.5	7585
Throttle position sensor		0.7	0.7	7590
Throttle position sensor		0.3	0.3	7595
Emits black smoke		2.0	2.0	7596
Emits black smoke		2.0	2.0	7597
Emits black smoke		2.0	2.0	7598
Emits black smoke		2.2	2.2	7601
Throttle position sensor		0.7	0.7	7605
Throttle position sensor		0.5	0.5	7610
Throttle position sensor		0.8	0.8	7615
MAP sensor		0.8	0.8	7620
MAP sensor		1.2	1.2	7625
MAP sensor		0.3	0.3	7630
MAP sensor		0.6	0.6	7635
MAP sensor		0.6	0.6	7640

Table 5-8. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
MAP sensor		0.6	0.6	7641
MAP sensor		0.5	0.5	7642
MAP sensor		0.6	0.6	7645
MAP sensor		0.6	0.6	7650
MAP sensor		0.7	0.7	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		0.4	0.4	7680
Engine temperature sensor		0.4	0.4	7685
Engine temperature sensor		0.3	0.3	7690
Engine temperature sensor		0.5	0.5	7695
Engine temperature sensor		0.3	0.3	7705
Engine temperature sensor		0.4	0.4	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	1.0	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	1.0	7783
Battery voltage test		1.2	1.2	7784
Fuel injectors		0.1	0.1	7785
Fuel injectors		0.6	0.6	7790
Fuel injectors		0.7	0.7	7795
Fuel injectors		0.6	0.6	7805
Fuel injectors		0.6	0.6	7808
Fuel injectors		0.5	0.5	7809
Fuel injectors		0.6	0.6	7815
Fuel injectors		0.6	0.6	7820
Fuel injectors		0.7	0.7	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

Table 5-8. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
Fuel injectors		0.7	0.7	7850
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		0.4	0.4	7860
Ignition coil test		0.3	0.3	7865
Ignition coil test		0.5	0.5	7870
Ignition coil test		0.4	0.4	7875
Ignition coil test		0.2	0.2	7880
System relay		0.2	0.2	7887
System relay		0.3	0.3	7888
System relay		0.4	0.4	7889
System relay		0.3	0.3	7899
System relay		0.3	0.3	7900
System relay		0.4	0.4	7901
System relay		0.4	0.4	7902
System relay		0.3	0.3	7903
System relay		0.2	0.2	7904
System relay		0.4	0.4	7906
System relay		0.7	0.7	7907
System relay		0.3	0.3	7908
System relay		0.2	0.2	7909
System relay		0.3	0.3	7911
System relay		0.4	0.4	7912
ECM failure		0.3	0.3	7913
Vehicle speed signal		0.4	0.4	7954
Vehicle speed signal		0.4	0.4	7956
Vehicle speed signal		0.5	0.5	7957
Vehicle speed signal		0.3	0.3	7958
Vehicle speed signal		0.4	0.4	7959
Vehicle speed signal		0.3	0.3	7961
Vehicle speed signal		0.3	0.4	7962
Vehicle speed signal		0.3	0.4	7963
Vehicle speed signal		0.3	0.4	7964
Crank position sensor		0.5	0.5	7980
Crank position sensor		0.4	0.4	7981
Crank position sensor		0.3	0.3	7982
Crank position sensor		0.5	0.5	7983
Crank position sensor		0.2	0.2	7984
Crank position sensor		0.4	0.4	7985
Crank position sensor		0.5	0.5	7986
Crank position sensor		0.4	0.4	7987
Engine cranks but will not start; Fuel system electrical test		0.7	0.7	7992
Starts, then stalls		0.7	0.7	7992
Starts, then stalls		0.6	0.6	7993

Table 5-8. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FMW	FHW/FTW	
Starts, then stalls		0.3	0.3	7994
Starts, then stalls		0.3	0.3	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

2003 DYNA POLICE MODEL

Table 5-9. Service

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
NEW			
Set-up and pre-delivery		2.1	---
1,000 mile service		2.0	---
REGULAR			
2,500 mile maintenance		0.5	---
5,000 mile maintenance		2.0	---
7,500 mile maintenance		0.5	---
10,000 mile maintenance		5.0	---

Table 5-10. Chassis

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
DRIVE			
Adjust secondary belt		0.2	---
Replace secondary belt		2.1	2011
Replace rear wheel sprocket		0.9	2021
WHEELS			
Replace tire -- includes balancing	front	0.6	2106
	rear	0.7	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing	front	0.8	2113
	rear	1.0	2114
Replace rim, hub or spokes	front	2.3	2116
	rear	2.3	2121
Replace wheel bearings	front	0.5	2136
	rear	0.6	2141
True spoked wheel		0.4	2156
HANDLEBARS			
Replace handlebars		0.5	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		0.5	2246
Replace rubber handlebar grip		0.2	2251

All times listed in hours.

V.I.N. CODES

GKV	FXDP
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Table 5-10. Chassis

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
Replace handlebar riser	one or both	0.4	2253
Replace handlebar clamp	one or both	0.1	2254
FRAME/SWING ARM/FRONT FORK			
Replace frame	includes removal and installation of all accessories and motorcycle components	10.5	2306
Replace front fork assembly		2.2	2311
Replace lower fork bracket and stem		2.4	2316
Replace steering head cups and bearings, including bearing adjustment		2.1	2321
Replace upper fork bracket		0.9	2326
Replace fork lock		0.8	2330
Adjust steering head bearings		0.4	---
Change front fork oil		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	2341
	both sides	1.1	2342
Replace fork side	one side	0.5	2346
	both sides	0.8	2351
Replace fork tube	one side	0.6	2356
	both sides	0.9	2361
Replace rear swing arm and/or bushings		2.0	2366
Replace rear fork pivot shaft		1.0	2368
Replace rear shock absorber assembly	one side	0.3	2371
	both sides	0.5	2376
Replace rear shock absorber component(s)	one side	0.4	2381
	both sides	0.7	2386
Replace floor boards		0.1	2394
Replace jiffy stand	spring and/or stand	0.3	2396
	rubber bumper	0.1	2399
Replace motor rubber mount	rear	0.5	2395
	front	0.2	2398
BRAKES			
Replace hydraulic brake line – includes filling/bleeding brakes	front	0.4	2406
	rear	0.5	2411
Replace rear master cylinder reservoir hose and/or master cylinder fitting		0.4	2414
Replace brake pads	front – each caliper	0.1	2416
	rear	0.3	2421
Replace brake caliper – includes filling/bleeding brakes	front	0.4	2426
	rear	0.7	2431
Replace brake disc	front – one side	0.3	2436
	front – both sides	---	2437
	rear	0.9	2441
Bleed brake caliper	one or two front calipers or rear caliper	0.2	2446

Table 5-10. Chassis

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
Overhaul brake caliper – includes filling/bleeding brakes	front – each caliper	0.6	2451
	rear	0.9	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
SEATS/FENDERS/TANKS			
Replace seat	front	0.2	2506
Replace fender	front	0.3	2526
	rear	1.1	2531
Replace fuel tank assembly		1.0	2541
Replace fuel tank valve		0.2	2561
Replace fuel tank gauge and/or console		0.2	2563
Replace fuel tank gauge sending unit		0.4	2564
Replace any hose		0.3	2576
Replace oil filter		0.1	2582
Replace oil filter bracket		0.2	2584
Replace license plate holder		0.2	2590
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	0.5	2631
	rear	0.3	2636
Replace any muffler		0.2	2646
Replace any exhaust shield		0.1	2661
Replace muffler support		0.2	2666

Table 5-11. Engine

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
GENERAL			
Remove and install engine		4.0	3006
Replace and adjust stabilizer	top	0.7	3005
Remove and replace oil pan for inspection/contamination		0.7	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	3101
	rear head	3.5	3103
	both heads	4.1	3104
Replace cylinder head	one head	2.2	3106
	both heads	2.8	3108

Table 5-11. Engine

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
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	1.6	3140
	rear cylinder	1.6	3142
	both cylinders	2.0	3143
Replace rocker arm covers and/or gaskets	front cylinder	0.7	3144
	rear cylinder	0.7	3145
	both cylinders	0.8	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/rocker arm support	front cylinder	1.1	3147
	rear cylinder	1.1	3152
	both cylinders	1.3	3153
Replace cylinder o-ring/drain o-ring	one cylinder	1.8	3161
	rear cylinder	1.8	3163
	both cylinders	2.2	3168
Replace crankcase umbrella valve	one	1.0	3172
	both	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	3202
	both pistons and cylinders	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	3211
	both pistons and cylinders	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	3207
	both pistons and cylinders	4.9	3208
Replace piston rings – includes deglazing cylinder	one cylinder	2.1	3206
	both cylinders	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	3221
	both cylinders	3.9	3231
Replace cylinder and piston	one cylinder	2.0	3236
	both cylinders	2.5	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	1.3	3307
	both	1.6	3310
Replace push rod, push rod cover and/or O-ring or quad seal	one or two same cylinder	1.3	3317
	one each cylinder	1.5	3318
Replace cam cover and/or gasket		0.9	3325

Table 5-11. Engine

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
Replace primary cam chain, sprockets and/or fastener		1.0	3327
Replace primary cam chain tensioner		1.0	3328
Replace cam support plate O-rings		2.1	3335
Replace cam support plate		2.1	3337
Replace cam support bearing/cams/secondary cam chain/tensioner		2.3	3338
Replace oil pump and/or O-rings		1.9	3341
Replace cam bearing crankcase	one bearing	2.1	3342
	two bearings	2.2	3343
By pass valve inspection		2.0	3354
CRANKCASE			
Replace crankcases	includes remove and install engine	6.9	3406
Seal crankcase only		6.2	3407
Replace flywheels	includes remove and install engine	6.5	3411
Replace right side main bearing		6.4	3412
Replace left side main bearing		6.3	3410
Piston jet/O-ring	one	2.0	3413
	both	2.4	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
Replace pistons	cylinders removed (for non-related repairs) – includes resizing cylinders	1.4	3430
FUEL SYSTEM			
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 gasket	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
EVAPORATIVE EMISSIONS SYSTEM			
Replace canister		0.1	3527
Replace vapor valve		0.1	3528
Replace any one hose		0.1	3529

Table 5-12. Drive and Clutch

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
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		0.8	4006
Service the clutch	includes disassembly, cleaning, inspection repair, assembly and adjustment	1.3	4011
Replace shift lever		0.1	4012
Replace clutch release bearing and/or push rod		0.4	4016
Replace clutch release mechanism (ball ramp) and/or side cover		0.6	4018

Table 5-13. Transmission

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
TRANSMISSION CASE			
Replace transmission case		5.3	4304
Replace transmission complete		4.9	4305
Overhaul transmission	includes disassembly, cleaning, inspection, replacing parts, assembly (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	3.0	4336
Replace transmission top cover and/or gasket	includes battery tray removal	1.2	4341
Replace shifter forks and/or shaft	includes checking gear engagement	0.9	4343
Replace side door bearing	one	3.0	4348
	both	3.1	4351

Table 5-13. Transmission

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
Replace transmission case countershaft bearing		2.9	4361
Replace main drive gear and/or bearing		3.2	4366
Replace side cover gasket		0.2	4368
Remove oil pan and/or gasket and/or baffle		0.6	4378
Replace oil fill tube and/or cover and/or gasket		0.3	4379
Replace transmission shift shaft seal		2.2	4390

Table 5-14. Electrical

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
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. 99481-03 and Electrical Diagnostic Manual, Part No. 99496-03. Charging diagnostics are in the Dyna Police Supplement, Part No. 99481-03SP.			
GENERAL			
Lights and accessories	excluding turn signals	0.3	5016
CHARGING CIRCUIT			
Diagnose charging system	regulator inspection	0.1	5306
Diagnose charging system	regulator bleed	0.5	5307
Diagnose charging system	milliamp draw	0.2	5308
Diagnose charging system	total current draw	0.2	5310
Diagnose charging system	open/grounded stator	1.2	5312
Diagnose charging system	AC output	1.2	5314
Diagnose charging system	regulator failure	0.7	5315
Diagnose charging system	voltage output	0.7	5316
Diagnose charging system	replace rotor	1.1	5319
STARTER CIRCUIT			
Starter inoperative	open/shorted/ground motor	1.0	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 or battery connections, ground connections, or bad solenoid contacts	0.2	5824
Starter inoperative	damaged motor	0.9	5825
Starter inoperative	relay clicks; open in relay wiring	0.2	5827
Starter inoperative	nothing clicks; poor relay ground	0.2	5828
Starter inoperative	nothing clicks; short to voltage	0.3	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

Table 5-14. Electrical

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
Starter spins	clutch	1.0	5837
Starter inoperative	nothing clicks; TSM	0.3	5838
Replace starter solenoid contacts	includes starter motor removal	1.1	5845
Starter binding		1.1	5850
Replace starter solenoid coil	includes starter motor removal	1.2	5860
Starter inoperative	TSSM	0.2	6791
Starter inoperative	Connector	0.1	6792
Starter inoperative	Open	0.3	6793
Starter inoperative	Open	0.3	6805
Starter inoperative	Open	0.3	6806
INSTRUMENTS			
Replace speedometer	cosmetics only	0.2	6003
Replace tachometer		0.2	6009
Replace instrument housing assembly (tach./speedo)		0.3	6019
ELECTRONIC SPEEDOMETER			
Diagnose inoperative, inaccurate or erratic speedometer	switch	0.4	6001
Diagnose inoperative, inaccurate or erratic speedometer		0.2	6002
Diagnose inoperative, inaccurate or erratic speedometer	wiring	0.3	6004
Diagnose inoperative, inaccurate or erratic speedometer	replace	0.7	6006
Diagnose inoperative, inaccurate or erratic speedometer	wiring	0.7	6008
Diagnose inoperative, inaccurate or erratic speedometer	sensor	0.4	6010
Diagnose inoperative, inaccurate or erratic speedometer	open	0.7	6013
Diagnose inoperative, inaccurate or erratic speedometer	LED failure	0.3	6014
Diagnose inoperative, inaccurate or erratic speedometer	wires	0.5	6016
Diagnose inoperative, inaccurate or erratic odometer	inoperable	0.2	6020
Diagnose inoperative, inaccurate or erratic speedometer	internal	0.7	6022
Diagnose inoperative, inaccurate or erratic speedometer	power/ground	0.7	6024
Diagnose inoperative, inaccurate or erratic speedometer	debris on sensor	0.7	6029
Replace speedo reset boot		0.1	6043
WIRING			
Replace connector housing		0.1	5022
Replace connector anchor		0.1	5023
Replace main wiring harness		2.3	5026
Replace any single wire	light circuit	0.2	5039

Table 5-14. Electrical

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
Replace indicator lamp wiring (includes diagnosis)		0.3	5048
SWITCHES			
Replace ignition switch		0.2	5129
Replace rear stoplight switch		0.4	5141
Replace rear circuit breaker		0.2	5145
Replace fuse		0.2	5147
Replace fuse block	one	0.3	5148
	two	0.6	5151
Replace transmission neutral switch	includes diagnosis	0.3	5157
Replace clutch lockout switch		0.5	5168
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		0.6	5176
Replace left upper handlebar switch housing		0.2	5177
Replace left lower handlebar switch housing		0.4	5178
Replace right upper handlebar switch housing		0.2	5179
Replace right lower handlebar switch housing		0.7	5180
Replace pursuit/aux switch		0.8	5187
Replace horn/yelp siren switch		0.8	5188
LIGHTS			
Replace headlight bracket	includes adjustment	0.2	5181
Replace headlight	includes diagnosis	0.1	5185
Replace headlight housing	includes adjustment	0.4	5189
Replace indicator bulb or lens	includes diagnosis	0.1	5190
Replace indicator lamp socket assembly	includes diagnosis	0.5	5191
Replace taillight light bulb or lens	includes diagnosis	0.1	5197
Replace taillight assembly or circuit board		0.2	5215
Replace turn signal light assembly	front	0.7	5201
	rear	0.2	5205
Replace pursuit lamp bulb	includes diagnosis	0.1	5227
Replace pursuit lamp	front	0.4	5230
TURN SIGNALS			
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		0.6	6780
Turn signal error 2C		0.7	6784
Turn signal error 2C		0.7	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

Table 5-14. Electrical

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
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		0.5	6811
Turn signal error 3D		0.4	6812
Turn signal error 3D		0.4	6813
Turn signal error 3D		0.3	6814
Turn signal error 3D		0.5	6815
Turn signal error 3D		0.4	6816
Turn signal error 4A		0.2	6820
Turn signal error 4A		0.3	6821
Turn signal error 4A		0.5	6822
Turn signal error 4A		0.3	6823
Turn signal error 4A		0.6	6824
Ignition enable output high		0.3	6827
Ignition enable output high		0.3	6828
Starter output high		0.3	6840
Starter output high		0.2	6841
Starter output high		0.3	6842
Accelerometer fault		0.2	6845
IGNITION			
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	0.5	7130
	No check engine lamp	0.5	7135
	No check engine lamp	0.5	7143
	No check engine lamp	0.5	7145
	No check engine lamp	0.5	7146
Chart A-2	Check engine lamp on continuously	0.5	7148
	Check engine lamp on continuously	0.3	7150
	Check engine lamp on continuously	0.5	7155
	Check engine lamp on continuously	0.5	7160
	Check engine lamp on continuously	0.5	7165

Table 5-14. Electrical

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
Chart A-3	Engine cranks but will not start	0.2	7180
	Engine cranks but will not start	0.3	7185
	Engine cranks but will not start	0.5	7210
	Engine cranks but will not start	0.5	7215
	Engine cranks but will not start	0.5	7225
	Engine cranks but will not start	0.3	7226
	Engine cranks but will not start	0.3	7227
	Engine cranks but will not start	0.3	7228
	Engine cranks but will not start	1.1	7230
	Engine cranks but will not start	0.5	7231
	Engine cranks but will not start	0.5	7235
	Engine cranks but will not start	0.5	7250
	Engine cranks but will not start	1.3	7255
Chart A-4	No spark, no check engine lamp	0.2	7270
	No spark, no check engine lamp	0.8	7285
	No spark, no check engine lamp	0.6	7291
	No spark, no check engine lamp	1.3	7295
	No spark, no check engine lamp	0.4	7305
	No spark, no check engine lamp	0.5	7310
Chart C	Misfire	0.2	7520
	Misfire	0.3	7525
	Misfire	0.3	7535
	Misfire	0.8	7540
	Misfire	0.7	7541
Code-12	Map sensor	0.7	7620
	Map sensor	1.9	7625
	Map sensor	0.9	7630
	Map sensor	0.3	7635
	Map sensor	0.5	7640
	Map sensor	0.6	7641
	Map sensor	0.5	7642
	Map sensor	0.5	7645
	Map sensor	0.8	7650
	Map sensor	0.5	7655
Code-16	Battery voltage test	0.5	7770
	Battery voltage test	0.5	7775
	Battery voltage test	0.9	7776
	Battery voltage test	1.1	7779
	Battery voltage test	0.9	7780
	Battery voltage test	1.5	7781
	Battery voltage test	1.0	7782
	Battery voltage test	1.3	7783
Battery voltage test	1.2	7784	

Table 5-14. Electrical

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
Code-24 & 25	Ignition coil	0.3	7855
	Ignition coil	0.3	7856
	Ignition coil	0.5	7860
	Ignition coil	0.6	7865
	Ignition coil	0.6	7870
	Ignition coil	0.2	7875
Code-35	Tachometer	0.6	7881
	Tachometer	0.5	7882
	Tachometer	0.6	7883
	Tachometer	0.5	7884
	Tachometer	0.5	7885
Code-41	Crank position sensor	0.5	7980
	Crank position sensor	1.0	7981
	Crank position sensor	0.5	7982
	Crank position sensor	1.3	7983
	Crank position sensor	1.2	7984
	Crank position sensor	1.1	7985
	Crank position sensor	0.6	7986
	Crank position sensor	0.6	7987
	Crank position sensor	0.6	7988
Code-44	Bank angle sensor	0.2	7971
	Bank angle sensor	0.3	7972
	Bank angle sensor	0.6	7973
	Bank angle sensor	0.5	7974
	Bank angle sensor	0.6	7975
	Bank angle sensor	0.3	7976
Codes-52, 53, 54, and 55	Ignition module failure	0.4	7913
BATTERY/HORN			
Replace the battery		0.3	5705
Replace horn and./or bracket		0.1	5765

Table 5-15. FXDP Accessories

ITEM	DESCRIPTION	MODEL	LABOR CODE
		GKV	
ACCESSORIES			
Replace windshield		0.3	6203
Replace saddlebag knob	per side	0.2	6249
Replace saddlebag frame	per side	0.3	6250
Replace electrical/coil cover		0.1	6263
Replace highway bar		0.3	6353
Replace mirror		0.1	6513

2003 DYNA MODELS

Table 6-1. Service

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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	---

Table 6-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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	2.3	2.3	---	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
True spoked wheel		0.4	0.4	---	0.4	2156
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

All times listed in hours.

V.I.N. CODES

GHV	SUPER GLIDE	GJV	FXDX DYNA SUPER GLIDE SPORT
GDV	FXDL DYNA LOW RIDER	GEV	FXDWG DYNA WIDE GLIDE
GLV	FXDXT DYNA TOURING		

Table 6-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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	1.2	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
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	0.3	0.3	0.3	0.3	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
	front – both sides	---	---	0.4	---	2437
	rear	0.8	0.8	0.8	0.8	2441

Table 6-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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
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
Replace fender	rear (includes replacing wire conduit)	1.1	1.1	1.1	1.1	2531
Replace wire conduit		0.2	0.2	0.2	0.2	2533
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

Table 6-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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
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" over-size 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

Table 6-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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		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	1.6	1.6	1.6	1.6	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		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
CRANKCASE						
Replace crankcases	California vehicles only – includes remove and install engine	7.0	7.0	7.0	7.0	3406
Replace crankcases	includes remove and install engine	6.9	6.9	6.9	6.9	3406
Seal crankcase only		6.2	6.2	6.2	6.2	3407
Replace flywheels	includes remove and install engine	6.5	6.5	6.5	6.5	3411
Replace right side main bearing	California vehicles only	6.5	6.5	6.5	6.5	3412
Replace right side main bearing		6.4	6.4	6.4	6.4	3412
Replace left side main bearing	California vehicles only	6.4	6.4	6.4	6.4	3410

Table 6-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
Replace left side main bearing		6.3	6.3	6.3	6.3	3410
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		0.2	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	0.6	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

Table 6-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV,GJV	GEV	
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

Table 6-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV,GJV	GEV	
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 shift lever		0.1	0.1	0.1	0.1	4012
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

Table 6-5. Transmission

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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

Table 6-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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. 99481-03 and Electrical Diagnostic Manual, Part No. 99496-03.						
GENERAL						
Lights and accessories	excluding turn signals	0.3	0.3	0.3	0.3	5016
CHARGING CIRCUIT						
Diagnose charging system	regulator inspection	0.1	0.1	0.1	0.1	5306
Diagnose charging system	regulator bleed	0.5	0.5	0.5	0.5	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	1.2	1.2	1.2	1.2	5312
Diagnose charging system	AC output	1.2	1.2	1.2	1.2	5314
Diagnose charging system	regulator failure	0.7	0.7	0.7	0.7	5315
Diagnose charging system	voltage output	0.7	0.7	0.7	0.7	5316
Diagnose charging system	replace rotor	1.1	1.1	1.1	1.1	5319
STARTER CIRCUIT						
Starter inoperative	open/shorted/ground motor	1.0	1.0	1.0	1.0	5817
Starter inoperative	start button	1.0	1.0	1.0	1.0	5818
Starter inoperative	solenoid clicks; poor starter or battery connections	0.2	0.2	0.2	0.2	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 or 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 clicks; 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; 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	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; spins, but does not engage; jackshaft		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
Starter inoperative	TSSM	0.2	0.2	0.2	0.2	6791
Starter inoperative	Connector	0.1	0.1	0.1	0.1	6792
Starter inoperative	Open	0.3	0.3	0.3	0.3	6793
Starter inoperative	Open	0.3	0.3	0.3	0.3	6805
Starter inoperative	Open	0.3	0.3	0.3	0.3	6806

Table 6-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	0.1	0.1	6043
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

Table 6-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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	0.5	0.5	0.6	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

Table 6-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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
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

Table 6-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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. 99481-03 and Electrical Diagnostic Manual, Part No. 99496-03.						
DIAGNOSTIC CHECK						
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

Table 6-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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
Code-16	Battery voltage test	0.5	0.5	0.5	0.5	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	1.1	1.1	1.1	1.1	7779
	Battery voltage test	0.9	0.9	0.9	0.9	7780
	Battery voltage test	1.5	1.5	1.5	1.5	7781
	Battery voltage test	1.0	1.0	1.0	1.0	7782
	Battery voltage test	1.3	1.3	1.3	1.2	7783
	Battery voltage test	1.2	1.2	1.2	1.2	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	0.5	0.5	0.5	0.5	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	0.2	0.2	0.2	0.2	7875
Code-35	Tachometer	---	0.6	0.6	---	7881
	Tachometer	---	0.5	0.5	---	7882
	Tachometer	---	0.5	0.6	---	7883
	Tachometer	---	0.5	0.5	---	7884
	Tachometer	---	0.5	0.5	---	7885
Code-41	Crank position sensor	0.5	0.5	0.5	0.5	7980
	Crank position sensor	1.0	1.0	1.0	1.0	7981
	Crank position sensor	0.5	0.5	0.5	0.5	7982
	Crank position sensor	1.3	1.3	1.3	1.3	7983
	Crank position sensor	1.2	1.2	1.2	1.2	7984
	Crank position sensor	1.1	1.1	1.1	1.1	7985
	Crank position sensor	0.6	0.6	0.6	0.6	7986
	Crank position sensor	0.6	0.6	0.6	0.6	7987
	Crank position sensor	0.6	0.6	0.6	0.6	7988

Table 6-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV, GJV	GEV	
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

Table 6-7. Dyna Accessories

ITEM	DESCRIPTION	MODELS				LABOR CODE
		GHV	GDV	GLV,GJV	GEV	
ACCESSORIES						
	Replace windshield	---	---	0.1	---	6203
	Replace w/s adjustment assembly	---	---	0.4	---	6211
	Replace w/s gearbox assembly	---	---	0.7	---	6212
	Replace saddlebag knob	---	---	0.1	---	6249
	Replace saddlebag frame	---	---	0.2	---	6250
	Replace plastic bushing in saddlebag frame	---	---	0.1	---	6251
	Replace fairing	---	---	0.2	---	6255
	Replace electrical/coil cover	0.1	0.1	0.1	0.1	6263
	Replace fairing mounts	---	---	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

2003 ROAD KING MODELS

Table 7-1.

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
NEW						
Set-up and pre-delivery		2.5	2.5	2.5	2.5	---
1,000 mile service		3.4	3.4	3.4	3.4	---
REGULAR						
2,500 mile maintenance		0.7	0.7	0.7	0.7	---
5,000 mile maintenance		1.8	1.8	1.8	1.8	---
7,500 mile maintenance		0.7	0.7	0.7	0.7	---
10,000 mile maintenance		3.5	3.5	3.5	3.5	---
20,000 mile maintenance		4.2	4.2	4.2	4.4	---
25,000 mile maintenance		2.3	2.3	2.3	1.8	---
50,000 mile maintenance		6.5	6.5	6.5	6.0	---

Table 7-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
DRIVE						
Adjust secondary belt		0.2	0.2	0.2	0.2	---
Replace secondary belt		3.7	3.7	3.7	3.7	2011
Replace rear wheel sprocket		0.9	0.9	0.9	0.9	2021
WHEELS						
Replace tire - includes balancing	front	0.6	0.6	0.6	0.6	2106
	rear	0.8	0.8	0.8	0.8	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing	front	0.8	0.8	0.8	0.8	2113
	rear	1.3	1.3	1.3	1.3	2114
Replace rim, hub or spokes	front	2.2	2.2	2.2	2.2	2116
	rear	2.4	2.4	2.4	2.4	2121
Replace wheel bearings	front	0.6	0.6	0.6	0.6	2136
	rear	0.8	0.8	0.8	0.8	2141
True laced wheel (wheel on vehicle)		0.4	0.4	0.4	0.4	2156
True laced wheel - includes r/r wheel & tire and time to rebalance	front	1.0	1.0	1.0	1.0	2157
	rear	1.2	1.2	1.2	1.2	2158
HANDLEBARS						
Replace handlebars		1.3	1.2	1.2	1.2	2206
Replace clutch hand lever		0.2	0.2	0.2	0.2	2221

All times listed in hours.

V.I.N. CODES

FRW	FLHRC-I
FBW	FLHR-I
FWW	FLHR-I SHRINE
FDV	FLHR

See page 10-1 for 2003 FLHRSEI2 MODEL.

Table 7-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
Replace clutch hand lever bracket		0.2	0.2	0.2	0.2	2226
Replace throttle control		0.5	0.4	0.4	0.4	2231
Replace and adjust throttle control cables	one or both	0.8	0.6	0.6	0.6	2241
Replace both rubber handlebar mounts		1.0	1.0	1.0	1.0	2246
Replace rubber handlebar grip		0.2	0.2	0.2	0.2	2251
Replace handlebar riser	one or both	1.0	1.0	1.0	1.0	2253
Replace handlebar clamp	one or both	0.8	0.8	0.8	0.8	2254
FRAME/SWING ARM/FRONT FORK						
Adjust steering head bearings		0.7	0.7	0.7	0.7	---
Change front fork oil		0.7	0.7	0.7	0.7	---
Replace frame	includes removal and installation of all accessories and motorcycle components	17.0	17.0	17.0	17.0	2306
Replace front fork assembly		3.0	3.0	3.0	3.0	2311
Replace lower fork bracket and stem		3.2	3.2	3.2	3.2	2316
Replace steering head cups and bearings, including bearing adjustment		3.2	3.2	3.2	3.2	2321
Replace upper fork bracket		2.7	2.7	2.7	2.7	2326
Replace fork lock		0.3	0.3	0.3	0.3	2329
Replace front nacelle		0.6	0.6	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	1.9	1.9	2341
	both sides	2.3	2.3	2.3	2.3	2342
Replace fork side	one side	1.2	1.2	1.2	1.2	2346
	both sides	1.5	1.5	1.5	1.5	2351
Replace fork tube	one side	1.4	1.4	1.4	1.4	2356
	both sides	1.7	1.7	1.7	1.7	2361
Replace rear swing arm and/or bearings		1.9	1.9	1.9	1.9	2366
Replace rear fork pivot shaft		1.0	1.0	1.0	1.0	2368
Replace rear shock air line		0.2	0.2	0.2	0.2	2369
Replace rear shock absorber assembly	one side	0.3	0.3	0.3	0.3	2371
	both sides	0.6	0.6	0.6	0.6	2376
Replace rear shock absorber component(s)	one side	0.5	0.5	0.5	0.5	2381
	both sides	0.8	0.8	0.8	0.8	2386
Replace jiffy stand	complete	0.3	0.3	0.3	0.3	2391
	spring and/or stand	0.2	0.2	0.2	0.2	2396
	rubber bumper	0.1	0.1	0.1	0.1	2399
Replace footboard		0.2	0.2	0.2	0.2	2394
Replace motor rubber mount	rear right	0.5	0.5	0.5	0.5	2395
	rear left	0.3	0.3	0.3	0.3	2397
	front	0.4	0.4	0.4	0.4	2398
BRAKES						
Replace hydraulic brake line – includes filling/bleeding brakes	front	1.0	1.0	1.0	1.0	2406
	rear	0.4	0.4	0.4	0.4	2411
Replace rear master cylinder reservoir hose and/or hose		0.2	0.2	0.2	0.2	2414

Table 7-2. Chassis

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
Replace brake pads	front – each caliper	0.1	0.1	0.1	0.1	2416
	rear	0.3	0.3	0.3	0.3	2421
Replace brake caliper – includes filling/bleeding brakes	front – each caliper	0.4	0.4	0.4	0.4	2426
	rear	1.0	1.0	1.0	1.0	2431
Replace brake disc	front – one side	0.3	0.3	0.3	0.3	2436
	front – both sides	0.4	0.4	0.4	0.4	2437
	rear	1.0	1.0	1.0	1.0	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	1.3	1.3	1.3	1.3	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	0.3	2492
Replace front brake lever		0.1	0.1	0.1	0.1	2494
SEATS/FENDERS/TANKS						
Replace seat		0.2	0.2	0.2	0.2	2506
Replace fender	front	1.0	1.0	1.0	1.0	2526
	rear	1.2	1.2	1.2	1.2	2531
Replace rear fender support		0.1	0.1	0.1	0.1	2536
Replace fuel tank assembly		1.3	1.3	1.3	0.9	2541
Replace fuel tank console / instrument panel		0.3	0.3	0.3	0.3	2553
Replace fuel tank console rubber molding strip		0.2	0.2	0.2	0.2	2557
Replace fuel tank valve		---	---	---	0.2	2561
Replace fuel tank gauge		0.3	0.3	0.3	0.3	2563
Replace fuel tank gauge sending unit		0.5	0.5	0.5	0.5	2564
Replace fuel tank check valve assembly		0.6	0.6	0.6	---	2567
Replace canopy gasket		0.4	0.4	0.4	0.4	2570
Replace fuel filter		0.5	0.5	0.5	---	2575
Replace any hose		0.3	0.3	0.3	0.3	2576
Replace fuel hose inside tank		0.5	0.5	0.5	---	2579
Replace oil filter		0.1	0.1	0.1	0.1	2582
BELT GUARDS						
Replace rear belt guard – debris deflector		0.1	0.1	0.1	0.1	2616
EXHAUST SYSTEM						
Replace complete exhaust system and/or gaskets		1.0	1.0	1.0	1.0	2626
Replace exhaust pipe	right side	0.9	0.9	0.9	0.9	2631
	left side	0.3	0.3	0.3	0.3	2636
Replace one muffler		0.2	0.2	0.2	0.2	2646
Replace any one exhaust shield		0.1	0.1	0.1	0.1	2661
Replace one muffler support		0.2	0.2	0.2	0.2	2666

Table 7-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
GENERAL						
Remove and install engine	California vehicles only	4.6	4.6	4.6	4.3	3006
Remove and install engine		4.5	4.5	4.5	4.2	3006
Replace and adjust stabilizer	top	0.7	0.7	0.7	0.7	3005
	front	0.3	0.3	0.3	0.3	3007
Remove and replace oil pan for inspection/contamination	with engine removed	0.3	0.3	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	4.5	4.2	3101
	rear head	4.5	4.5	4.5	4.2	3103
	both heads	5.1	5.1	5.1	4.8	3104
Replace cylinder head	one head	3.2	3.2	3.2	2.9	3106
	both heads	3.8	3.8	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	0.1	0.1	3131
	both seals or springs (intake or exhaust)	0.2	0.2	0.2	0.2	3132
	front cylinder	2.6	2.6	2.6	2.3	3140
Replace cylinder head gasket/O-ring	rear cylinder	2.6	2.6	2.6	2.3	3142
	both cylinders	3.0	3.0	3.0	2.7	3143
Replace rocker arm covers and/or gaskets	front cylinder	0.8	0.8	0.8	0.8	3144
	rear cylinder	0.8	0.8	0.8	0.8	3145
	both cylinders	0.9	0.9	0.9	0.9	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	1.2	1.2	1.2	1.2	3147
	rear cylinder	1.2	1.2	1.2	1.2	3152
	both cylinders	1.4	1.4	1.4	1.4	3153
Replace cylinder O-ring/drain O-ring	front cylinder	2.8	2.8	2.8	2.5	3161
	rear cylinder	2.8	2.8	2.8	2.5	3163
	both cylinders	3.2	3.2	3.2	2.9	3168
Replace crankcase umbrella valve	one	1.1	1.1	1.1	1.1	3172
	both	1.2	1.2	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	5.5	5.5	5.2	3202
	both pistons and cylinders	6.1	6.1	6.1	5.8	3203
Replace piston rings – includes deglazing cylinder	one cylinder	3.1	3.1	3.1	2.8	3206
	both cylinders	3.7	3.7	3.7	3.4	3216
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	5.3	5.3	5.0	3207
	both pistons and cylinders	5.9	5.9	5.9	5.6	3208

Table 7-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
Recondition TOP END - includes disassembly, replacement of piston and bore and hone, resizing cylinder (.010" over-size or above), replacing piston rings and all items listed under RECONDITION CYLINDER HEAD and assembly.	one piston and cylinder	5.9	5.9	5.9	5.6	3211
	both pistons and cylinders	6.5	6.5	6.5	6.2	3212
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	3.7	3.4	3221
	both cylinders	4.9	4.9	4.9	4.6	3231
Replace cylinder and piston	one cylinder	3.0	3.0	3.0	2.7	3236
	both cylinders	3.5	3.5	3.5	3.2	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
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 or two same cylinder	1.4	1.4	1.4	1.4	3307
	on both cylinders	1.7	1.7	1.7	1.7	3310
Replace push rod, push rod cover and/or O-ring or quad seal	one or two same cylinder	1.4	1.4	1.4	1.4	3317
	one each cylinder	1.6	1.6	1.6	1.6	3318
Replace cam cover and/or gasket		1.6	1.6	1.6	1.6	3325
Replace primary cam chain, sprockets and/or fastener		1.7	1.7	1.7	1.7	3327
Replace primary cam chain tensioner		1.7	1.7	1.7	1.7	3328
Replace cam support plate/O-rings		2.8	2.8	2.8	2.8	3335
Replace cam support plate		2.8	2.8	2.8	2.8	3337
Replace cam support bearing/cams/secondary cam chain/tensioner		3.0	3.0	3.0	3.0	3338
Replace oil pump and/or O-rings		2.6	2.6	2.6	2.6	3341
Replace cam bearing crankcase	one bearing	2.8	2.8	2.8	2.8	3342
	two bearings	2.9	2.9	2.9	2.9	3343
By pass valve inspection		2.7	2.7	2.7	2.7	3354
CRANKCASE						
Replace crankcases	California vehicles only –includes remove and install engine	8.0	8.0	8.0	7.7	3406
Replace crankcases	includes remove and install engine	7.9	7.9	7.9	7.6	3406
Seal crankcase only		6.8	6.8	6.8	6.5	3407
Replace flywheels	includes remove and install engine	7.5	7.5	7.5	7.2	3411
Replace right side main bearing	California vehicles only	7.5	7.5	7.5	7.2	3412
Replace right side main bearing		7.4	7.4	7.4	7.1	3412
Replace left side main bearing	California vehicles only	7.0	7.0	7.0	6.7	3410
Replace left side main bearing		6.9	6.9	6.9	6.6	3410
Piston jet/O-ring	one	3.0	3.0	3.0	2.7	3413
	both	3.4	3.4	3.4	3.1	3414
Filter housing and or O-rings		0.2	0.2	0.2	0.2	3415
Replace crankcase vent hose and/or fittings		0.2	0.2	0.2	0.2	3417

Table 7-3. Engine

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
Replace crankcase oil hose and/or fittings	Feed	0.3	0.3	0.3	0.3	3418
	Return	0.3	0.3	0.3	0.3	3419
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		0.2	0.2	0.2	0.2	3501
Replace air cleaner cover		0.1	0.1	0.1	0.1	3502
Replace carburetor		---	---	---	0.4	3506
Replace induction module	includes making cruise control adjustment	1.2	1.2	1.2	---	3508
Replace induction module seal		1.2	1.2	1.2	---	3510
Replace intake manifold and/or seal		---	---	---	0.6	3511
Replace external fuel supply hose		0.2	0.2	0.2	---	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	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

Table 7-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
DRIVE						
Adjust primary chain		0.2	0.2	0.2	0.2	---
Replace primary inspection cover and/or O-ring		0.1	0.1	0.1	0.1	4001
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		0.6	0.6	0.6	0.6	4007
Replace inner primary case &/or seals or bearing		2.1	2.1	2.1	2.1	4008
Replace primary cover gasket		0.6	0.6	0.6	0.6	4009
Replace shift lever	heel or toe	0.1	0.1	0.1	0.1	4012

Table 7-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
CLUTCH						
Adjust clutch		0.2	0.2	0.2	0.2	---
Replace release cable assembly		1.2	1.2	1.2	1.2	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 (ball ramp) and/or side cover		1.6	1.6	1.6	1.6	4018

Table 7-5. Transmission

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
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 (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		0.7	0.7	0.7	0.7	4331
Replace shifter arm assembly or springs		3.0	3.0	3.0	3.0	4336
Replace transmission top cover and/or gasket		0.6	0.6	0.6	0.6	4341
Replace shifter forks and/or shaft		1.8	1.8	1.8	1.8	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 transmission side cover gasket		0.9	0.9	0.9	0.9	4368
Replace oil pan and/or gasket or baffle	removal of rear wheel may be necessary	0.9	0.9	0.9	0.9	4378
Replace oil fill tube and/or cover, and/or gasket		0.4	0.4	0.4	0.4	4379
Replace transmission shifter seal		2.2	2.2	2.2	2.2	4390

Table 7-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
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 2003 Service Manual, Part No. 99483-03 and Electrical Diagnostic Manual, Part No. 99497-03.						
GENERAL						
Check and diagnose the electrical system lights and accessories	excluding turn signals	0.3	0.3	0.3	0.3	5016
Replace connector housing		0.1	0.1	0.1	0.1	5022
Replace connector anchor		0.1	0.1	0.1	0.1	5023
CHARGING CIRCUIT						
Diagnose charging system	regulator inspection	0.1	0.1	0.1	0.1	5306
Diagnose charging system	regulator bleed	0.9	0.9	0.9	0.9	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
Replace regulator/stator connector		0.2	0.2	0.2	0.2	5311
Diagnose charging system	open/grounded stator	1.8	1.8	1.8	1.8	5312
Diagnose charging system	AC output	1.8	1.8	1.8	1.8	5314
Diagnose charging system	regulator failure	1.0	1.0	1.0	1.0	5315
Diagnose charging system	voltage output	1.0	1.0	1.0	1.0	5316
Diagnose charging system	replace rotor	1.3	1.3	1.3	1.3	5319
STARTER CIRCUIT						
Starter inoperative	open/shorted/grounded motor	1.4	1.4	1.4	1.4	5817
Starter inoperative	start button	1.0	1.0	1.0	1.0	5818
Starter inoperative	solenoid clicks; poor starter or battery connections	0.2	0.2	0.2	0.2	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	0.2	0.2	0.2	0.2	5824
Starter inoperative	damaged motor	1.4	1.4	1.4	1.4	5825
Starter inoperative	relay click; open in relay wiring	0.3	0.3	0.3	0.3	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	0.5	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	1.5	1.5	1.5	1.5	5837
Starter inoperative	nothing clicks; TSM/TSSM	0.4	0.4	0.4	0.4	5838
Replace starter solenoid, contacts	includes starter motor removal	1.6	1.6	1.6	1.6	5845
Starter binding		1.6	1.6	1.6	1.6	5850
Replace starter solenoid	coil, includes starter motor removal	1.6	1.6	1.6	1.6	5860
Starter Inoperative – nothing clicks	TSM/TSSM	0.2	0.2	0.2	0.2	6791
Starter Inoperative – nothing clicks	connector	0.1	0.1	0.1	0.1	6792
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	0.3	6793

Table 7-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	0.3	6805
Starter Inoperative – nothing clicks	open	0.3	0.3	0.3	0.3	6806
INSTRUMENTS						
Fuel gauge, see FUEL TANK		---	---	---	---	----
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
Replace speedometer	cosmetics only	0.2	0.2	0.2	0.2	6003
Diagnose inoperative, inaccurate or erratic speedometer	wiring	0.2	0.2	0.2	0.2	6004
Diagnose inoperative, inaccurate or erratic speedometer	replace	0.5	0.5	0.5	0.5	6006
Diagnose inoperative, inaccurate or erratic speedometer	wiring	0.3	0.3	0.3	0.3	6008
Diagnose inoperative, inaccurate or erratic speedometer	sensor	0.5	0.5	0.5	0.5	6010
Diagnose inoperative, inaccurate or erratic speedometer	open	0.6	0.6	0.6	0.6	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	0.4	0.4	0.4	0.4	6016
Replace instrument housing (console)		0.3	0.3	0.3	0.3	6019
Replace indicator panel lens		0.1	0.1	0.1	0.1	6018
Odometer inoperable		0.2	0.2	0.2	0.2	6020
Diagnose inoperative, inaccurate or erratic speedometer	internal	0.5	0.5	0.5	0.5	6022
Diagnose inoperative, inaccurate or erratic speedometer	power/ground	0.5	0.5	0.5	0.5	6024
Diagnose inoperative, inaccurate, or erratic speedometer	debris or sensor	0.5	0.5	0.5	0.5	6029
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	0.1	0.1	6043
WIRING						
Replace FLHR main wiring harness		3.1	3.1	3.1	3.1	5026
Main harness	locate and repair, open/short	0.5	0.5	0.5	0.5	5028
Replace EFI harness		1.7	1.7	1.7	---	5033
Replace rear fender wiring harness		0.8	0.8	0.8	0.8	5036
Replace any single wire	ground wire	0.4	0.4	0.4	0.4	5038
	light circuit	0.2	0.2	0.2	0.2	5039
	accessory circuit	0.2	0.2	0.2	0.2	5043
Repair/diagnose indicator lamp wiring		0.3	0.3	0.3	0.3	5048
Replace front fender wiring harness		---	0.9	0.9	0.9	5049
Replace ignition wiring harness		---	---	---	1.1	5050

Table 7-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
Handlebar harness	repair short	0.4	0.4	0.4	0.4	6551
Handlebar harness	repair open	0.4	0.4	0.4	0.4	6552
SWITCHES						
Replace handlebar cruise on/off switch or lamp		0.5	---	---	---	5128
Replace ignition switch		0.3	0.3	0.3	0.3	5129
Replace rear stoplight switch		0.4	0.4	0.4	0.4	5141
Replace fuse		0.2	0.2	0.2	0.2	5145
Replace main circuit breaker		0.2	0.2	0.2	0.2	5147
Replace fuse block		0.3	0.3	0.3	0.3	5148
Replace fuse block	two	0.5	0.5	0.5	0.5	5151
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
Replace spot lamp switch		0.2	0.2	0.2	0.1	5167
Replace rear stoplight relay		0.2	0.2	0.2	0.2	5169
Replace left handlebar switch		0.5	0.5	0.5	0.5	5171
Replace right handlebar switch		0.7	0.7	0.7	0.7	5173
Replace front brake light switch		0.7	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		0.3	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		0.7	0.7	0.7	0.7	5180
Replace handlebar cruise set/res. switch or lamp		0.7	---	---	---	5182
LIGHTS						
Replace headlight	includes diagnosis	0.1	0.1	0.1	0.1	5185
Replace headlight housing	includes adjustment	0.2	0.2	0.2	0.2	5189
Replace indicator lamp assembly		0.2	0.2	0.2	0.2	5191
Replace taillight bulb or single light bulb or lens	includes diagnosis	0.1	0.1	0.1	0.1	5197
Replace turn signal light assembly	front	0.4	0.4	0.4	0.4	5201
	rear	0.4	0.4	0.4	0.4	5205
Replace rear turn signal bar		0.4	0.4	0.4	0.4	5207
Replace tail lamp assembly or circuit board		0.2	0.2	0.2	0.2	5215
Replace fender tip light bulb or lens, includes diagnosis	front	---	0.1	0.1	0.1	5217
	rear	---	0.1	0.1	0.1	5221
Replace fender tip lamp assembly	front	---	0.2	0.2	0.2	5225
	rear	---	0.3	0.3	0.3	5229
Replace passing lamp bulb	includes diagnosis	0.1	0.1	0.1	0.1	5227
Replace passing lamp		0.4	0.4	0.4	0.4	5230
Replace passing lamp bracket		0.7	0.7	0.7	0.7	5232
TURN SIGNALS/SECURITY SYSTEM						
No security lamp		0.4	0.4	0.4	0.4	6735
No security lamp		0.4	0.4	0.4	0.4	6736

Table 7-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
No security lamp		0.4	0.4	0.4	0.4	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		0.2	0.2	0.2	0.2	6740
No security lamp		0.3	0.3	0.3	0.3	6741
No security lamp		0.3	0.3	0.3	0.3	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		0.3	0.3	0.3	0.3	6751
Security lamp on continuously		0.4	0.4	0.4	0.4	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 1A		0.5	0.5	0.5	---	6760
Turn signal error 1A		1.1	1.1	1.1	---	6761
Turn signal error 1A		0.2	0.2	0.2	---	6762
Turn signal error 1A		0.3	0.3	0.3	---	6763
Turn signal error 1A		0.7	0.7	0.7	---	6764
Turn signal error 1B		0.3	0.3	0.3	---	6767
Turn signal error 1B		0.3	0.3	0.3	---	6768
Turn signal error 1B		0.4	0.4	0.4	---	6769
Turn signal error 1C		0.8	0.8	0.8	---	6771
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		---	---	---	0.6	6780
Turn signal error 2C		---	---	---	0.7	6784
Turn signal error 2C		---	---	---	0.7	6785
Turn signal error 2C		---	---	---	1.1	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		0.4	0.4	0.4	0.4	6810
Turn signal error 3D		0.7	0.7	0.7	0.7	6811

Table 7-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
Turn signal error 3D		0.4	0.4	0.4	0.4	6812
Turn signal error 3D		0.3	0.3	0.3	0.3	6813
Turn signal error 3D		0.4	0.4	0.4	0.4	6814
Turn signal error 3D		0.7	0.7	0.7	0.7	6815
Turn signal error 3D		0.4	0.4	0.4	0.4	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		0.4	0.4	0.4	0.4	6822
Turn signal error 4A	Does not include lamp assembly replacement	0.3	0.3	0.3	0.3	6823
Turn signal error 4A		0.5	0.5	0.5	0.5	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
IGNITION SYSTEM						
Diagnostic check		---	---	---	0.2	7110
Diagnostic check		---	---	---	0.3	7115
Diagnostic check		---	---	---	0.4	7120
Diagnostic check		---	---	---	0.3	7125
Chart A-1	No check engine lamp	---	---	---	0.2	7130
	No check engine lamp	---	---	---	0.3	7135
	No check engine lamp	---	---	---	0.3	7143
	No check engine lamp	---	---	---	0.6	7145
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

Table 7-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
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
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
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

Table 7-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
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
Code-52, 53 and 55	Ignition module failure	---	---	---	0.2	7913
BATTERY/HORN						
Replace the battery	includes diagnosis	0.3	0.3	0.3	0.3	5705
Replace horn and/or bracket		0.1	0.1	0.1	0.1	5765
Replace battery tray		0.5	0.5	0.5	0.5	5767
Replace battery cable		0.2	0.2	0.2	0.2	5769
CRUISE CONTROL – DIAGNOSIS, REPAIR						
Replace throttle control cable	one or more - includes all diagnostics and adjustments	0.6	---	---	---	2241
Main harness	locate and repair open/short	0.5	---	---	---	5028
Replace any single wire	ground wire	0.4	---	---	---	5038
Replace rear stoplight switch		0.5	---	---	---	5141
Replace fuse		0.2	---	---	---	5145
Replace rear stoplight relay		0.2	---	---	---	5169
Replace front brake light switch		0.7	---	---	---	5176

Table 7-6. Electrical

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
Replace handlebar (cruise set) switch		0.7	---	---	---	5182
Replace any fairing switch		0.4	---	---	---	5192
Handlebar harness	repair open	0.4	---	---	---	6552
Replace cruise cable		0.5	---	---	---	6630
Replace cruise module		0.7	---	---	---	6635
Replace speedometer		0.4	---	---	---	6769

Table 7-7. Road King Accessories

ITEM	DESCRIPTION	MODELS				LABOR CODE
		FRW	FBW	FWW	FDV	
ACCESSORIES						
Replace windshield		0.1	0.1	0.1	0.1	6203
Replace windshield bushing	all or one	0.2	0.2	0.2	0.2	6208
Replace spring clip on windshield		0.2	0.2	0.2	0.2	6210
Replace saddlebag mounting bracket		0.2	0.2	0.2	0.2	6253
Replace saddlebag guard		0.3	0.3	0.3	0.3	6254
Replace saddlebag		0.2	0.2	0.2	0.2	6257
Replace saddlebag lock		---	0.2	0.2	0.2	6259
Replace saddlebag cover	one	---	0.2	0.2	0.2	6260
Replace saddlebag lock or latch		0.2	0.2	0.2	0.2	6261
Replace one saddlebag tether strap		---	0.1	0.1	0.1	6262
Replace one frame sidecover		0.1	0.1	0.1	0.1	6263
Replace fender tip	front	0.1	---	---	---	6302
	rear	0.1	---	---	---	6304
Replace bumper	rear	---	0.2	0.2	0.2	6305
Replace highway bar	front	0.3	0.3	0.3	0.3	6353
	rear-left	0.3	0.3	0.3	0.3	6355
	rear-right	0.4	0.4	0.4	0.4	6357
Replace mirror		0.1	0.1	0.1	0.1	6513

Table 7-8. Fuel Injection

ITEM	DESCRIPTION	MODELS			LABOR CODE
		FRW	FBW	FWW	
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 2003 Service Manual, Part No. 99483-03 and Electrical Diagnostic Manual, Part No. 99497-03.					
No check engine lamp/No ECM Power		0.5	0.5	0.5	6013
Password problem		0.4	0.4	0.4	6701
Password problem		0.4	0.4	0.4	6702
Password problem		0.6	0.6	0.6	6703
Password problem		0.4	0.4	0.4	6704
Password problem		0.5	0.5	0.5	6705
Password problem		0.3	0.3	0.3	6706
Password problem		0.6	0.6	0.6	6707

Table 7-8. Fuel Injection

ITEM	DESCRIPTION	MODELS			LABOR CODE
		FRW	FBW	FWW	
Password problem		0.8	0.8	0.8	6708
Loss of TSM / TSSM serial data		0.4	0.4	0.4	6715
Loss of TSM / TSSM serial data		0.6	0.6	0.6	6716
Loss of TSM / TSSM serial data		0.6	0.6	0.6	6717
Loss of TSM / TSSM serial data		0.5	0.5	0.5	6718
Loss of TSM / TSSM serial data		0.4	0.4	0.4	6719
Diagnostic Check		0.2	0.2	0.2	7110
Diagnostic Check		0.4	0.4	0.4	7115
Diagnostic Check		0.4	0.4	0.4	7120
Diagnostic Check		0.8	0.8	0.8	7125
Diagnostic Check		0.8	0.8	0.8	7126
Starts, then stalls; no DTCs		0.4	0.4	0.4	7127
Starts, then stalls; no DTCs		0.3	0.3	0.3	7128
No check engine lamp/No ECM Power		0.6	0.6	0.6	7130
No check engine lamp/No ECM Power		0.4	0.4	0.4	7133
Misfire at idle or under load		0.3	0.3	0.3	7134
Rough or rolling idle		0.3	0.3	0.3	7134
Misfire at idle or under load		0.3	0.3	0.3	7136
Rough or rolling idle		0.3	0.3	0.3	7136
Misfire at idle or under load		0.6	0.6	0.6	7137
Rough or rolling idle		0.6	0.6	0.6	7137
Misfire at idle or under load		0.7	0.7	0.7	7138
Rough or rolling idle		0.7	0.7	0.7	7138
Misfire at idle or under load		0.6	0.6	0.6	7139
Rough or rolling idle		0.6	0.6	0.6	7139
No check engine lamp/No ECM Power		0.4	0.4	0.4	7141
No check engine lamp/No ECM Power		0.1	0.1	0.1	7142
No check engine lamp/No ECM Power		0.5	0.5	0.5	7143
Misfire at idle or under load		0.9	0.9	0.9	7144
Rough or rolling idle		0.9	0.9	0.9	7144
No check engine lamp/No ECM Power		0.4	0.4	0.4	7146
Misfire at idle or under load		0.5	0.5	0.5	7147
Rough or rolling idle		0.5	0.5	0.5	7147
Check engine lamp on continuously		0.2	0.2	0.2	7148
Misfire at idle or under load		0.9	0.9	0.9	7149
Rough or rolling idle		0.9	0.9	0.9	7149
Check engine lamp on continuously		0.7	0.7	0.7	7150
Misfire at idle or under load		0.6	0.6	0.6	7152
Rough or rolling idle		0.6	0.6	0.6	7152
Check engine lamp on continuously		0.3	0.3	0.3	7155
Check engine lamp on continuously		0.2	0.2	0.2	7156
Check engine lamp on continuously		0.1	0.1	0.1	7157
Engine cranks but will not start		0.6	0.6	0.6	7185
Engine cranks but will not start		0.5	0.5	0.5	7195
Engine cranks but will not start		0.5	0.5	0.5	7210
Engine cranks but will not start		0.4	0.4	0.4	7215
Engine cranks but will not start		0.5	0.5	0.5	7223

Table 7-8. Fuel Injection

ITEM	DESCRIPTION	MODELS			LABOR CODE
		FRW	FBW	FWW	
Engine cranks but will not start		0.4	0.4	0.4	7224
Engine cranks but will not start		0.5	0.5	0.5	7225
Engine cranks but will not start		0.8	0.8	0.8	7226
Engine cranks but will not start		0.7	0.7	0.7	7227
Engine cranks but will not start		0.5	0.5	0.5	7228
Engine cranks but will not start		0.5	0.5	0.5	7230
Engine cranks but will not start		0.6	0.6	0.6	7231
Engine cranks but will not start		0.5	0.5	0.5	7235
Engine cranks but will not start		0.9	0.9	0.9	7251
No check engine lamp/No ECM Power		0.5	0.5	0.5	7270
No check engine lamp/No ECM Power		0.6	0.6	0.6	7285
No check engine lamp/No ECM Power		0.7	0.7	0.7	7286
No check engine lamp/No ECM Power		0.8	0.8	0.8	7287
No check engine lamp/No ECM Power		0.7	0.7	0.7	7288
No check engine lamp/No ECM Power		0.7	0.7	0.7	7289
No check engine lamp/No ECM Power		0.4	0.4	0.4	7290
No check engine lamp/No ECM Power		1.4	1.4	1.4	7295
No check engine lamp/No ECM Power		0.6	0.6	0.6	7301
No check engine lamp/No ECM Power		0.1	0.1	0.1	7302
No check engine lamp/No ECM Power		0.7	0.7	0.7	7303
No check engine lamp/No ECM Power		0.4	0.4	0.4	7304
No check engine lamp/No ECM Power		0.6	0.6	0.6	7305
No check engine lamp/No ECM Power		0.5	0.5	0.5	7306
No check engine lamp/No ECM Power		0.7	0.7	0.7	7307
No check engine lamp/No ECM Power		0.6	0.6	0.6	7308
No check engine lamp/No ECM Power		0.6	0.6	0.6	7309
No check engine lamp/No ECM Power		0.6	0.6	0.6	7310
No check engine lamp/No ECM Power		0.3	0.3	0.3	7320
Fuel system electrical test		0.2	0.2	0.2	7335
Fuel system electrical test		0.7	0.7	0.7	7336
Engine cranks but will not start; Fuel system electrical test		0.6	0.6	0.6	7340
Engine cranks but will not start; Fuel system electrical test		0.5	0.5	0.5	7355
Fuel system electrical test		0.3	0.3	0.3	7360
Fuel system electrical test		0.8	0.8	0.8	7370
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	7380
Fuel system electrical test		0.3	0.3	0.3	7385
Engine cranks but will not start; Fuel system electrical test		0.9	0.9	0.9	7415
Fuel system electrical test		0.3	0.3	0.3	7440
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	7441
Fuel system electrical test		0.2	0.2	0.2	7445
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	7450
Fuel pressure test		0.4	0.4	0.4	7455

Table 7-8. Fuel Injection

ITEM	DESCRIPTION	MODELS			LABOR CODE
		FRW	FBW	FWW	
Fuel pressure test		0.7	0.7	0.7	7465
Fuel pressure test		0.7	0.7	0.7	7470
Fuel pressure test		0.7	0.7	0.7	7480
Idle air control		1.1	1.1	1.1	7486
Idle air control		0.5	0.5	0.5	7490
Idle air control		0.5	0.5	0.5	7495
Idle air control		0.6	0.6	0.6	7505
Idle air control		0.5	0.5	0.5	7510
Idle air control		0.4	0.4	0.4	7515
Idle air control		0.6	0.6	0.6	7516
Engine cranks but will not start; Fuel system electrical test		0.4	0.4	0.4	7520
Misfire at idle or under load		0.4	0.4	0.4	7520
Misfire at idle or under load		0.2	0.2	0.2	7525
Misfire at idle or under load		0.4	0.4	0.4	7535
Combustion absent		0.1	0.1	0.1	7537
Combustion absent		0.2	0.2	0.2	7538
Combustion absent		0.2	0.2	0.2	7539
Misfire at idle or under load		0.3	0.3	0.3	7540
Combustion absent		0.2	0.2	0.2	7543
Combustion absent		0.4	0.4	0.4	7544
Misfire at idle or under load		0.2	0.2	0.2	7545
Combustion absent		0.2	0.2	0.2	7546
Combustion absent		0.4	0.4	0.4	7547
Combustion absent		0.1	0.1	0.1	7548
Combustion absent		0.1	0.1	0.1	7549
Misfire at idle or under load		0.4	0.4	0.4	7550
Throttle position sensor		0.5	0.5	0.5	7555
Throttle position sensor		0.5	0.5	0.5	7560
Throttle position sensor		0.6	0.6	0.6	7565
Throttle position sensor		0.4	0.4	0.4	7570
Throttle position sensor		0.5	0.5	0.5	7575
Throttle position sensor		0.5	0.5	0.5	7580
Throttle position sensor		0.5	0.5	0.5	7585
Throttle position sensor		0.7	0.7	0.7	7590
Throttle position sensor		0.3	0.3	0.3	7595
Emits black smoke		2.0	2.0	2.0	7596
Emits black smoke		2.0	2.0	2.0	7597
Emits black smoke		2.0	2.0	2.0	7598
Emits black smoke		2.2	2.2	2.2	7601
Throttle position sensor		0.7	0.7	0.7	7605
Throttle position sensor		0.5	0.5	0.5	7610
Throttle position sensor		0.8	0.8	0.8	7615
MAP sensor		0.8	0.8	0.8	7620
MAP sensor		1.2	1.2	1.2	7625
MAP sensor		0.3	0.3	0.3	7630
MAP sensor		0.6	0.6	0.6	7635

Table 7-8. Fuel Injection

ITEM	DESCRIPTION	MODELS			LABOR CODE
		FRW	FBW	FWW	
MAP sensor		0.6	0.6	0.6	7640
MAP sensor		0.6	0.6	0.6	7641
MAP sensor		0.5	0.5	0.5	7642
MAP sensor		0.6	0.6	0.6	7645
MAP sensor		0.6	0.6	0.6	7650
MAP sensor		0.7	0.7	0.7	7655
Engine temperature sensor		0.4	0.4	0.4	7660
Engine temperature sensor		0.9	0.9	0.9	7665
Engine temperature sensor		0.2	0.2	0.2	7670
Engine temperature sensor		0.3	0.3	0.3	7675
Engine temperature sensor		0.4	0.4	0.4	7680
Engine temperature sensor		0.4	0.4	0.4	7685
Engine temperature sensor		0.3	0.3	0.3	7690
Engine temperature sensor		0.5	0.5	0.5	7695
Engine temperature sensor		0.3	0.3	0.3	7705
Engine temperature sensor		0.4	0.4	0.4	7710
Intake air temperature sensor		0.6	0.6	0.6	7715
Intake air temperature sensor		1.4	1.4	1.4	7720
Intake air temperature sensor		0.4	0.4	0.4	7725
Intake air temperature sensor		0.4	0.4	0.4	7730
Intake air temperature sensor		0.9	0.9	0.9	7735
Intake air temperature sensor		0.9	0.9	0.9	7740
Intake air temperature sensor		0.4	0.4	0.4	7745
Intake air temperature sensor		0.3	0.3	0.3	7750
Intake air temperature sensor		0.4	0.4	0.4	7755
Intake air temperature sensor		0.4	0.4	0.4	7760
Battery voltage test		0.4	0.4	0.4	7770
Battery voltage test		0.5	0.5	0.5	7775
Battery voltage test		0.9	0.9	0.9	7776
Battery voltage test		1.0	1.0	1.0	7779
Battery voltage test		0.9	0.9	0.9	7780
Battery voltage test		1.4	1.4	1.4	7781
Battery voltage test		1.0	1.0	1.0	7782
Battery voltage test		1.0	1.0	1.0	7783
Battery voltage test		1.2	1.2	1.2	7784
Fuel injectors		0.1	0.1	0.1	7785
Fuel injectors		0.6	0.6	0.6	7790
Fuel injectors		0.7	0.7	0.7	7795
Fuel injectors		0.6	0.6	0.6	7805
Fuel injectors		0.6	0.6	0.6	7808
Fuel injectors		0.5	0.5	0.5	7809
Fuel injectors		0.6	0.6	0.6	7815
Fuel injectors		0.6	0.6	0.6	7820
Fuel injectors		0.7	0.7	0.7	7825
Fuel injectors		0.6	0.6	0.6	7830
Fuel injectors		0.6	0.6	0.6	7835
Fuel injectors		0.6	0.6	0.6	7840

Table 7-8. Fuel Injection

ITEM	DESCRIPTION	MODELS			LABOR CODE
		FRW	FBW	FWW	
Fuel injectors		0.4	0.4	0.4	7845
Fuel injectors		0.7	0.7	0.7	7850
Ignition coil test		0.5	0.5	0.5	7853
Ignition coil test		0.6	0.6	0.6	7854
Ignition coil test		0.4	0.4	0.4	7856
Ignition coil test		0.4	0.4	0.4	7860
Ignition coil test		0.3	0.3	0.3	7865
Ignition coil test		0.5	0.5	0.5	7870
Ignition coil test		0.4	0.4	0.4	7875
Ignition coil test		0.2	0.2	0.2	7880
System relay		0.2	0.2	0.2	7887
System relay		0.3	0.3	0.3	7888
System relay		0.4	0.4	0.4	7889
System relay		0.3	0.3	0.3	7899
System relay		0.3	0.3	0.3	7900
System relay		0.4	0.4	0.4	7901
System relay		0.4	0.4	0.4	7902
System relay		0.3	0.3	0.3	7903
System relay		0.2	0.2	0.2	7904
System relay		0.4	0.4	0.4	7906
System relay		0.7	0.7	0.7	7907
System relay		0.3	0.3	0.3	7908
System relay		0.2	0.2	0.2	7909
System relay		0.3	0.3	0.3	7911
System relay		0.4	0.4	0.4	7912
ECM failure		0.3	0.3	0.3	7913
Vehicle speed signal		0.4	0.4	0.4	7954
Vehicle speed signal		0.4	0.4	0.4	7956
Vehicle speed signal		0.5	0.5	0.5	7957
Vehicle speed signal		0.3	0.3	0.3	7958
Vehicle speed signal		0.4	0.4	0.4	7959
Vehicle speed signal		0.3	0.3	0.3	7961
Vehicle speed signal		0.4	0.4	0.4	7962
Vehicle speed signal		0.4	0.4	0.4	7963
Vehicle speed signal		0.4	0.4	0.4	7964
Crank position sensor		0.5	0.5	0.5	7980
Crank position sensor		0.4	0.4	0.4	7981
Crank position sensor		0.3	0.3	0.3	7982
Crank position sensor		0.5	0.5	0.5	7983
Crank position sensor		0.2	0.2	0.2	7984
Crank position sensor		0.4	0.4	0.4	7985
Crank position sensor		0.5	0.5	0.5	7986
Crank position sensor		0.4	0.4	0.4	7987
Engine cranks but will not start; Fuel system electrical test		0.7	0.7	0.7	7992
Starts, then stalls		0.7	0.7	0.7	7992
Starts, then stalls		0.6	0.6	0.6	7993

Table 7-8. Fuel Injection

ITEM	DESCRIPTION	MODELS			LABOR CODE
		FRW	FBW	FWW	
Starts, then stalls		0.3	0.3	0.3	7994
Starts, then stalls		0.3	0.3	0.3	7995
Starts, then stalls		0.3	0.3	0.3	7996
Starts, then stalls		0.5	0.5	0.5	7997
Starts, then stalls		0.6	0.6	0.6	7998
Starts, then stalls		0.5	0.5	0.5	7999

NOTES

2003 ROAD GLIDE MODELS

Table 8-1. Service

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
NEW				
Set-up and pre-delivery		2.5	2.5	---
1,000 mile service		3.4	3.4	---
REGULAR				
2,500 mile maintenance		0.7	0.7	---
5,000 mile maintenance		1.8	1.8	---
7,500 mile maintenance		0.7	0.7	---
10,000 mile maintenance		3.5	3.5	---
20,000 mile maintenance		6.6	6.4	---
25,000 mile maintenance		1.8	2.3	---
50,000 mile maintenance		6.0	6.5	---

Table 8-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
DRIVE				
Adjust secondary belt		0.2	0.2	---
Replace secondary belt		3.7	3.7	2011
Replace rear wheel sprocket		0.9	0.9	2021
WHEELS				
Replace tire and/or wheel assembly - includes balancing	front	0.6	0.6	2106
	rear	0.8	0.8	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing	front	0.8	0.8	2113
	rear	1.3	1.3	2114
Replace rim, hub or spokes	front	2.2	2.2	2116
	rear	2.4	2.4	2121
Replace wheel bearings	front	0.6	0.6	2136
	rear	0.8	0.8	2141
True laced wheel (wheel on vehicle)		0.4	0.4	2156
True laced wheel - includes r/r wheel & tire and time to rebalance	front	1.0	1.0	2157
	rear	1.2	1.2	2158
HANDLEBARS				
Replace handlebars		1.1	1.1	2206
Replace clutch hand lever		0.2	0.2	2221

All times listed in hours.

V.I.N. CODES

FPV	FLTR
FSW	FLTRI

Table 8-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
Replace clutch hand lever bracket		0.2	0.2	2226
Replace throttle control		0.5	0.5	2231
Replace throttle control cable	one or more - includes all adjustments	0.8	0.8	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				
Adjust steering head bearings		0.7	0.7	---
Change front fork oil	both sides	2.5	2.5	---
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
Replace complete lock set		0.3	0.3	2333
Service or replace fork slider and/or seal – includes removal, disassembly, cleaning, inspection, replacing parts, servicing damper tube, replacing bushings, assembly and installation	both sides	2.5	2.5	2342
	right side	2.0	2.0	2343
	left side	2.3	2.3	2344
Replace fork side	one side	1.2	1.2	2346
	both sides	1.5	1.5	2351
Replace fork tube	right side	1.5	1.5	2357
	left side	2.3	2.3	2358
	both sides	2.5	2.5	2361
Replace rear swing arm and/or bearings		1.9	1.9	2366
Replace rear fork pivot shaft		1.0	1.0	2368
Replace rear shock air line		0.2	0.2	2369
Replace rear shock absorber assembly	one side	0.3	0.3	2371
	both sides	0.6	0.6	2376
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 footboard		0.2	0.2	2394
Replace motor rubber mount	rear right	0.5	0.5	2395
	rear left	0.3	0.3	2397
	front	0.4	0.4	2398
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	0.3	0.3	2421

Table 8-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
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
	front – both sides	0.4	0.4	2437
	rear	1.0	1.0	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		0.1	0.1	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		0.9	1.3	2541
Replace fuel tank console/instrument panel		0.3	0.3	2553
Replace fuel tank console rubber mounting strip		0.2	0.2	2557
Replace fuel tank valve		0.2	---	2561
Replace fuel tank gauge sending unit		0.5	0.5	2564
Replace fuel tank check valve assembly		---	0.6	2567
Replace canopy gasket		0.4	0.4	2570
Replace fuel filter		---	0.5	2575
Replace any hose		0.3	0.3	2576
Replace fuel hose inside tank		---	0.5	2579
Replace oil filter		0.1	0.1	2582
BELT GUARDS				
Replace rear belt guard – debris deflector		0.1	0.1	2616
EXHAUST SYSTEM				
Replace complete exhaust system and/or gaskets		1.0	1.0	2626
Replace exhaust pipe	right side	0.9	0.9	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

Table 8-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
GENERAL				
Remove and install engine	California vehicles only	4.3	4.6	3006
Remove and install engine		4.2	4.5	3006
Replace and adjust stabilizer	top	0.7	0.7	3005
Replace and adjust stabilizer	front	0.3	0.3	3007
Remove and replace oil pan 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	4.2	4.5	3101
	rear head	4.2	4.5	3103
	both heads	4.8	5.1	3104
Replace cylinder head	one head	2.9	3.2	3106
	both heads	3.5	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	2.3	2.6	3140
	rear cylinder	2.3	2.6	3142
	both cylinders	2.7	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 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	2.8	3161
	rear cylinder	2.5	2.8	3163
	both cylinders	2.9	3.2	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	5.5	3202
	both pistons and cylinders	5.8	6.1	3203
Replace piston rings – includes deglazing cylinder	one cylinder	2.8	3.1	3206
	both cylinders	3.4	3.7	3216
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	5.3	3207
	both pistons and cylinders	5.6	5.9	3208
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	5.9	3211
	both pistons and cylinders	6.2	6.5	3212

Table 8-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
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	3.7	3221
	both cylinders	4.6	4.9	3231
Replace cylinder and piston	one cylinder	2.7	3.0	3236
	both cylinders	3.2	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 or two same cylinder	1.4	1.4	3307
	on both cylinders	1.7	1.7	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
CRANKCASE				
Replace crankcases	California vehicles only –includes remove and install engine	7.7	8.0	3406
Replace crankcases	includes remove and install engine	7.6	7.9	3406
Seal crankcase only		6.5	6.8	3407
Replace flywheels	includes remove and install engine	7.2	7.5	3411
Replace right side main bearing	California vehicles only	7.2	7.5	3412
Replace right side main bearing		7.1	7.4	3412
Replace left side main bearing	California vehicles only	6.7	7.0	3410
Replace left side main bearing		6.6	6.9	3410
Piston jet/O-ring	one	2.7	3.0	3413
	both	3.1	3.4	3414
Filter housing and or O-rings		0.2	0.2	3415
Replace crankcase vent hose and/or fittings		0.2	0.2	3417
Replace crankcase oil hose and/or fittings	Feed	0.3	0.3	3418
	Return	0.3	0.3	3419
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

Table 8-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
Replace pistons	cylinders removed (for non-related repairs) includes resizing cylinders	1.4	1.4	3430
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	---	3506
Replace induction module	includes making cruise control cable adjustment	---	1.2	3508
Replace induction module seal		---	1.2	3510
Replace intake manifold and/or seal	one or both	0.6	---	3511
Replace external fuel supply/return hose	one or both	---	0.2	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

Table 8-4. Drive and Clutch

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
DRIVE				
Adjust primary chain		0.2	0.2	---
Replace primary inspection cover and/or O-ring		0.1	0.1	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		0.6	0.6	4007
Replace inner primary case &/or seals or bearing		2.1	2.1	4008
Replace primary cover gasket		0.6	0.6	4009
Replace shifter lever	heel or toe	0.1	0.1	4012
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

Table 8-5. Transmission

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
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		0.7	0.7	4331
Replace shifter arm assembly or springs		3.0	3.0	4336
Replace transmission top cover and/or gasket		0.6	0.6	4341
Replace shifter forks and/or shaft		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	removal of rear wheel may be necessary	0.9	0.9	4378
Replace oil fill tube and/or cover, and/or gasket		0.4	0.4	4379
Replace transmission shift shaft seal		2.2	2.2	4390

Table 8-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
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 2003 FLT Service Manual, Part No. 99483-03 and Electrical Diagnostic Manual, Part No. 99497-03.				
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

Table 8-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
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	0.3	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, 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	0.4	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
Starter Inoperative – nothing clicks	TSM/TSSM	0.2	0.2	6791
Starter Inoperative – nothing clicks	connector	0.1	0.1	6792
Starter Inoperative – nothing clicks	open	0.3	0.3	6793
Starter Inoperative – nothing clicks	open	0.3	0.3	6805
Starter Inoperative – nothing clicks	open	0.3	0.3	6806
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 EFI harness		---	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 ignition wiring harness		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
Jumper harness	accessory switch to interconnect	0.6	0.6	6562

Table 8-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
SWITCHES				
Replace ignition switch		0.5	0.5	5129
Replace rear stoplight switch		0.5	0.5	5141
Replace fuse		0.2	0.2	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 handlebar switch		0.5	0.5	5171
Replace right 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	1.2	5182
Replace handlebar mode switch		1.1	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	0.3	0.3	5185
Replace headlight housing	includes adjustment	0.4	0.4	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 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 tail lamp assembly or circuit board		0.2	0.2	5215
Replace fender tip light bulb or lens	rear	0.1	0.1	5221
Replace fender tip lamp assembly	rear	0.3	0.3	5229
BATTERY/HORN				
Replace the battery	includes diagnosis	0.3	0.3	5705
Replace horn and/or bracket		0.1	0.1	5765
Replace battery tray		0.5	0.5	5767
Replace battery cable		0.2	0.2	5769
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

Table 8-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
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 1A		---	0.5	6760
Turn signal error 1A		---	1.1	6761
Turn signal error 1A		---	0.2	6762
Turn signal error 1A		---	0.3	6763
Turn signal error 1A		---	0.7	6764
Turn signal error 1B		---	0.3	6767
Turn signal error 1B		---	0.3	6768
Turn signal error 1B		---	0.4	6769
Turn signal error 1C		---	0.8	6771
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	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	6798
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

Table 8-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
Turn signal error 4A		0.4	0.4	6822
Turn signal error 4A	Does not include lamp assembly replacement	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		0.2	0.2	6845
INSTRUMENTS INCLUDES DIAGNOSIS				
Diagnose inoperative, inaccurate or erratic speedometer	switch	0.3	0.3	6001
Diagnose inoperative, inaccurate or erratic speedometer		0.1	0.1	6002
Replace speedometer	cosmetics only	0.2	0.2	6003
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	0.3	6008
Replace tachometer		0.3	0.3	6009
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
Replace indicator panel lens		0.3	---	6018
Odometer inoperable		0.2	0.2	6020
Replace voltmeter or fuel gauge		0.3	0.3	6021
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
Replace oil pressure or air temperature gauge		0.3	0.3	6026
Replace speedometer/tachometer cover		0.3	0.3	6027
Replace ambient temperature sensor		---	0.3	6028

Table 8-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
Diagnose inoperative, inaccurate, or erratic speedometer	debris or sensor	0.5	0.5	6029
Replace low fuel module		---	0.3	6030
Diagnose inoperative, inaccurate or erratic speedometer	grounded circuit	0.3	0.3	6031
Diagnose inoperative, inaccurate or erratic speedometer	fuse	0.1	0.1	6032
Replace speedo reset boot		0.1	0.1	6043
IGNITION SYSTEM				
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 2003 FLT Service Manual, Part No. 99483-03 and Electrical Diagnostic Manual, Part No. 99497-03.				
Diagnostic check		0.2	---	7110
Diagnostic check		0.3	---	7115
Diagnostic check		0.4	---	7120
Diagnostic check		0.3	---	7125
Chart A-1	No check engine lamp	0.2	---	7130
	No check engine lamp	0.3	---	7135
	No check engine lamp	0.3	---	7143
	No check engine lamp	0.5	---	7145
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

Table 8-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
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	0.5	---	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
Code-52, 53 and 55	Ignition module failure	0.2	---	7913

Table 8-6. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
SOUND SYSTEM DIAGNOSIS, REPAIR				
Replace radio chassis		0.4	0.4	6601
Replace one front speaker		0.3	0.3	6605
Replace one speaker grill	front	0.2	0.2	6607
Replace front antenna lead		0.8	0.8	6609
Replace antenna mast mount		0.2	0.2	6611
Complete stereo antenna inspection		0.2	0.2	6615
Replace stereo antenna mast		0.3	0.3	6617
CRUISE CONTROL, DIAGNOSIS, REPAIR				
Replace throttle control cable	one or more - includes all diagnostics and adjustments	0.6	0.6	2241
Main harness	locate and repair open/short	0.5	0.5	5028
Replace any single wire	ground wire	0.4	0.4	5038
Replace rear stoplight switch		0.5	0.5	5141
Replace fuse		0.2	0.2	5145
Replace rear stoplight relay		0.2	0.2	5169
Replace front brake light switch		0.7	0.7	5176
Replace handlebar (cruise set) switch		1.2	1.2	5182
Replace any fairing switch		0.4	0.4	5192
Replace tachometer		0.3	0.3	6009
Interconnect harness	repair short	0.5	0.5	6531
Interconnect harness	repair open	0.5	0.5	6532
Handlebar harness	repair open	0.4	0.4	6552
Replace cruise cable		0.4	0.4	6630
Replace cruise module		0.7	0.7	6635
Replace speedometer		---	0.4	6769
Replace speedometer		1.2	---	6786

Table 8-7. Road Glide Accessories

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
ACCESSORIES				
Replace windshield		0.1	0.1	6203
Replace inner fairing		1.8	1.8	6209
Remove outer fairing/diagnosis		0.2	0.2	6252
Replace saddlebag mounting bracket		0.2	0.2	6253
Replace saddlebag guard	complete	0.3	0.3	6254
Replace outer fairing		0.4	0.4	6255
Replace a single saddlebag guard rail		0.2	0.2	6256
Replace a saddlebag		0.2	0.2	6257
Replace saddlebag lock		0.2	0.2	6259
Replace saddlebag cover	one	0.2	0.2	6260
Replace one saddlebag tether strap		0.1	0.1	6262
Replace one frame sidecover		0.1	0.1	6263
Replace inner fairing bracket		1.0	0.1	6265

Table 8-7. Road Glide Accessories

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
Replace instrument Nacelle		0.4	0.4	6267
Replace plastic sticker/instrument Nacelle		0.1	0.1	6268
Replace outer headlight lens		0.1	0.1	6269
Change Lock-set		0.5	0.5	6276
Replace highway bar	front	0.6	0.6	6353
	rear - left	0.3	0.3	6355
	rear - right	0.4	0.4	6357
Replace Tour-Pak mount/luggage rack		0.7	0.7	6453
Replace mirror		0.1	0.1	6513

Table 8-8. Sidecar

ITEM	DESCRIPTION	MODELS		LABOR CODE
		FPV	FSW	
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

Table 8-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FSW	
NOTE: The codes listed below must be used in conjunction with the diagnostic/repair procedures listed in the 2003 FLT Service Manual, Part No. 99483-03 and Electrical Diagnostic Manual, Part No. 99497-03.			
No check engine lamp/No ECM Power		0.6	6013
Password problem		0.4	6701
Password problem		0.4	6702
Password problem		0.6	6703
Password problem		0.4	6704
Password problem		0.5	6705
Password problem		0.3	6706
Password problem		0.6	6707
Password problem		0.8	6708
Loss of TSM / TSSM serial data		0.4	6715
Loss of TSM / TSSM serial data		0.6	6716
Loss of TSM / TSSM serial data		0.6	6717
Loss of TSM / TSSM serial data		0.5	6718
Loss of TSM / TSSM serial data		0.4	6719
Diagnostic Check		0.2	7110
Diagnostic Check		0.4	7115
Diagnostic Check		0.4	7120
Diagnostic Check		0.8	7125
Diagnostic Check		0.8	7126
Starts, then stalls; no DTCs		0.4	7127
Starts, then stalls; no DTCs		0.3	7128
No check engine lamp/No ECM Power		0.7	7130
No check engine lamp/No ECM Power		0.6	7133
Misfire at idle or under load		0.3	7134
Rough or rolling idle		0.3	7134
Misfire at idle or under load		0.3	7136
Rough or rolling idle		0.3	7136
Misfire at idle or under load		0.6	7137
Rough or rolling idle		0.6	7137
Misfire at idle or under load		0.7	7138
Rough or rolling idle		0.7	7138
Misfire at idle or under load		0.6	7139
Rough or rolling idle		0.6	7139
No check engine lamp/No ECM Power		0.4	7141
No check engine lamp/No ECM Power		0.1	7142
No check engine lamp/No ECM Power		0.6	7143
Misfire at idle or under load		0.9	7144
Rough or rolling idle		0.9	7144
No check engine lamp/No ECM Power		0.5	7146
Misfire at idle or under load		0.5	7147
Rough or rolling idle		0.5	7147
Check engine lamp on continuously		0.2	7148
Misfire at idle or under load		0.9	7149
Rough or rolling idle		0.9	7149

Table 8-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FSW	
Check engine lamp on continuously		0.7	7150
Misfire at idle or under load		0.6	7152
Rough or rolling idle		0.6	7152
Check engine lamp on continuously		0.3	7155
Check engine lamp on continuously		0.2	7156
Check engine lamp on continuously		0.1	7157
Engine cranks but will not start		0.6	7185
Engine cranks but will not start		0.5	7195
Engine cranks but will not start		0.5	7210
Engine cranks but will not start		0.4	7215
Engine cranks but will not start		0.5	7223
Engine cranks but will not start		0.4	7224
Engine cranks but will not start		0.5	7225
Engine cranks but will not start		0.8	7226
Engine cranks but will not start		0.7	7227
Engine cranks but will not start		0.5	7228
Engine cranks but will not start		0.5	7230
Engine cranks but will not start		0.6	7231
Engine cranks but will not start		0.5	7235
Engine cranks but will not start		0.9	7251
No check engine lamp/No ECM Power		0.6	7270
No check engine lamp/No ECM Power		0.7	7285
No check engine lamp/No ECM Power		0.9	7286
No check engine lamp/No ECM Power		1.2	7287
No check engine lamp/No ECM Power		0.9	7288
No check engine lamp/No ECM Power		0.9	7289
No check engine lamp/No ECM Power		0.5	7290
No check engine lamp/No ECM Power		1.5	7295
No check engine lamp/No ECM Power		0.6	7301
No check engine lamp/No ECM Power		0.1	7302
No check engine lamp/No ECM Power		0.8	7303
No check engine lamp/No ECM Power		0.6	7304
No check engine lamp/No ECM Power		0.6	7305
No check engine lamp/No ECM Power		0.5	7306
No check engine lamp/No ECM Power		0.8	7307
No check engine lamp/No ECM Power		0.7	7308
No check engine lamp/No ECM Power		0.6	7309
No check engine lamp/No ECM Power		0.6	7310
No check engine lamp/No ECM Power		0.3	7320
Fuel system electrical test		0.2	7335
Fuel system electrical test		0.7	7336
Engine cranks but will not start; Fuel system electrical test		0.6	7340
Engine cranks but will not start; Fuel system electrical test		0.5	7355
Fuel system electrical test		0.3	7360
Fuel system electrical test		0.8	7370

Table 8-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FSW	
Engine cranks but will not start; Fuel system electrical test		0.4	7380
Fuel system electrical test		0.3	7385
Engine cranks but will not start; Fuel system electrical test		0.9	7415
Fuel system electrical test		0.3	7440
Engine cranks but will not start; Fuel system electrical test		0.4	7441
Fuel system electrical test		0.2	7445
Engine cranks but will not start; Fuel system electrical test		0.4	7450
Fuel pressure test		0.4	7455
Fuel pressure test		0.7	7465
Fuel pressure test		0.7	7470
Fuel pressure test		0.7	7480
Idle air control		1.1	7486
Idle air control		0.5	7490
Idle air control		0.5	7495
Idle air control		0.6	7505
Idle air control		0.5	7510
Idle air control		0.4	7515
Idle air control		0.6	7516
Engine cranks but will not start; Fuel system electrical test		0.4	7520
Misfire at idle or under load		0.4	7520
Misfire at idle or under load		0.2	7525
Misfire at idle or under load		0.4	7535
Combustion absent		0.1	7537
Combustion absent		0.2	7538
Combustion absent		0.2	7539
Misfire at idle or under load		0.3	7540
Combustion absent		0.2	7543
Combustion absent		0.4	7544
Misfire at idle or under load		0.2	7545
Combustion absent		0.2	7546
Combustion absent		0.4	7547
Combustion absent		0.1	7548
Combustion absent		0.1	7549
Misfire at idle or under load		0.4	7550
Throttle position sensor		0.5	7555
Throttle position sensor		0.5	7560
Throttle position sensor		0.6	7565
Throttle position sensor		0.4	7570
Throttle position sensor		0.5	7575
Throttle position sensor		0.5	7580
Throttle position sensor		0.5	7585
Throttle position sensor		0.7	7590
Throttle position sensor		0.3	7595

Table 8-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FSW	
Emits black smoke		2.0	7596
Emits black smoke		2.0	7597
Emits black smoke		2.0	7598
Emits black smoke		2.2	7601
Throttle position sensor		0.7	7605
Throttle position sensor		0.5	7610
Throttle position sensor		0.8	7615
MAP sensor		0.8	7620
MAP sensor		1.2	7625
MAP sensor		0.3	7630
MAP sensor		0.6	7635
MAP sensor		0.6	7640
MAP sensor		0.6	7641
MAP sensor		0.5	7642
MAP sensor		0.6	7645
MAP sensor		0.6	7650
MAP sensor		0.7	7655
Engine temperature sensor		0.4	7660
Engine temperature sensor		0.9	7665
Engine temperature sensor		0.2	7670
Engine temperature sensor		0.3	7675
Engine temperature sensor		0.4	7680
Engine temperature sensor		0.4	7685
Engine temperature sensor		0.3	7690
Engine temperature sensor		0.5	7695
Engine temperature sensor		0.3	7705
Engine temperature sensor		0.4	7710
Intake air temperature sensor		0.6	7715
Intake air temperature sensor		1.4	7720
Intake air temperature sensor		0.4	7725
Intake air temperature sensor		0.4	7730
Intake air temperature sensor		0.9	7735
Intake air temperature sensor		0.9	7740
Intake air temperature sensor		0.4	7745
Intake air temperature sensor		0.3	7750
Intake air temperature sensor		0.4	7755
Intake air temperature sensor		0.4	7760
Battery voltage test		0.4	7770
Battery voltage test		0.5	7775
Battery voltage test		0.9	7776
Battery voltage test		1.0	7779
Battery voltage test		0.9	7780
Battery voltage test		1.4	7781
Battery voltage test		1.0	7782
Battery voltage test		1.0	7783
Battery voltage test		1.2	7784
Fuel injectors		0.1	7785

Table 8-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FSW	
Fuel injectors		0.6	7790
Fuel injectors		0.7	7795
Fuel injectors		0.6	7805
Fuel injectors		0.6	7808
Fuel injectors		0.5	7809
Fuel injectors		0.6	7815
Fuel injectors		0.6	7820
Fuel injectors		0.7	7825
Fuel injectors		0.6	7830
Fuel injectors		0.6	7835
Fuel injectors		0.6	7840
Fuel injectors		0.4	7845
Fuel injectors		0.7	7850
Ignition coil test		0.5	7853
Ignition coil test		0.6	7854
Ignition coil test		0.4	7856
Ignition coil test		0.4	7860
Ignition coil test		0.3	7865
Ignition coil test		0.5	7870
Ignition coil test		0.4	7875
Ignition coil test		0.2	7880
System relay		0.2	7887
System relay		0.3	7888
System relay		0.4	7889
System relay		0.3	7899
System relay		0.3	7900
System relay		0.4	7901
System relay		0.4	7902
System relay		0.3	7903
System relay		0.2	7904
System relay		0.4	7906
System relay		0.7	7907
System relay		0.3	7908
System relay		0.2	7909
System relay		0.3	7911
System relay		0.4	7912
ECM failure		0.3	7913
Vehicle speed signal		0.4	7954
Vehicle speed signal		0.4	7956
Vehicle speed signal		0.5	7957
Vehicle speed signal		0.3	7958
Vehicle speed signal		0.4	7959
Vehicle speed signal		0.3	7961
Vehicle speed signal		0.3	7962
Vehicle speed signal		0.3	7963
Vehicle speed signal		0.3	7964
Crank position sensor		0.5	7980

Table 8-9. Fuel Injection

ITEM	DESCRIPTION	MODEL	LABOR CODE
		FSW	
Crank position sensor		0.4	7981
Crank position sensor		0.3	7982
Crank position sensor		0.5	7983
Crank position sensor		0.2	7984
Crank position sensor		0.4	7985
Crank position sensor		0.5	7986
Crank position sensor		0.4	7987
Engine cranks but will not start; Fuel system electrical test		0.7	7992
Starts, then stalls		0.7	7992
Starts, then stalls		0.6	7993
Starts, then stalls		0.3	7994
Starts, then stalls		0.3	7995
Starts, then stalls		0.3	7996
Starts, then stalls		0.5	7997
Starts, then stalls		0.6	7998
Starts, then stalls		0.5	7999

NOTES

2003 VRSCA MODEL

Table 9-1. Service

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
NEW				
Set-up and pre-delivery		2.5	2.1	---
1,000 mile service		2.0	2.0	---
REGULAR				
2,500 mile maintenance		0.7	0.7	---
5,000 mile maintenance		1.5	1.5	---
7,500 mile maintenance		0.7	0.7	---
10,000 mile maintenance		4.0	4.0	---

Table 9-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
DRIVE				
Adjust secondary belt		0.3	0.3	---
Replace sprocket cover		0.1	0.1	2044
Replace secondary belt		0.5	0.5	2011
Replace rear wheel sprocket		0.4	0.4	2021
Replace rear wheel sprocket bearing		0.6	0.6	2012
Replace rear compensator cushion		0.5	0.5	2013
Replace rear compensator bowl		0.6	0.6	2014
Replace front sprocket		0.5	0.5	2015
WHEELS				
Replace tire - includes balancing	front	0.6	0.9	2106
	rear	0.6	0.9	2111
Replace wheel assembly - includes disc and sprocket exchange and balancing	front	0.5	0.5	2113
	rear	0.8	0.8	2114
Replace wheel bearings	front	0.5	0.5	2136
	rear	0.6	0.6	2141
HANDLEBARS				
Replace handlebars		0.5	0.5	2206
Replace clutch hand lever		0.1	0.1	2221
Replace brake hand lever		0.1	0.1	2494
Replace throttle control		0.4	0.4	2231
Replace and adjust throttle control cables	one or both	0.6	0.6	2241
Replace rubber handlebar grip		0.2	0.2	2251

All times listed in hours.

V.I.N. CODES

HAZ	VRSCA
HAA	VRSCA (98 HP HDI)

Table 9-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
FRAME/SWING ARM/FRONT FORK				
Replace frame – includes removal and installation of all accessories and motorcycle components		12.0	12.0	2306
Replace lower fork bracket and stem		1.1	1.1	2316
Replace steering head cups and bearings, including bearing adjustment		1.8	1.8	2321
Replace upper fork bracket		0.8	0.8	2326
Replace fork lock		0.9	0.9	2330
Adjust steering head bearing		0.4	0.4	
Change front fork oil		0.5	0.5	
Service 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	2341
	both sides	1.5	1.5	2342
Replace fork slider	one side	0.6	0.6	2346
	both sides	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	0.7	0.7	2356
	both sides	1.1	1.1	2361
Replace rear swing arm-complete		1.5	1.5	2359
Replace rear swing arm bearings	both sides	2.2	2.2	2366
Replace passenger foot peg mount		0.1	0.1	2393
Replace rear shock absorber assembly	left side	0.1	0.1	2371
	right side	0.2	0.2	2376
Replace shock bushing – includes removing shock	left side	0.2	0.2	2382
	right side	0.3	0.3	2383
Replace jiffy stand	spring	0.2	0.2	2396
	rubber bumper	0.1	0.1	2399
Replace lower frame rail	left side	1.0	1.0	2345
	right side	0.7	0.7	2347
BRAKES				
Replace hydraulic brake line – includes filling/bleeding brakes	front	0.4	0.4	2406
	rear	0.5	0.5	2411
Replace brake pads	front	0.1	0.1	2416
	rear	0.2	0.2	2421
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	0.8	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		0.2	0.2	2492

Table 9-2. Chassis

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
Replace front brake lever		0.1	0.1	2494
Replace rear brake reservoir/hose		0.2	0.2	2414
SEATS/COSMETIC COVERS/FUEL TANK				
Replace seat/lanyard		0.1	0.1	2506
Replace passenger seat		0.1	0.1	2586
Replace seat strap		0.1	0.1	2588
Replace rear fender, outer		0.2	0.2	2537
Replace rear fender, inner		0.3	0.3	2538
Replace rear fender support	one only	0.5	0.5	2536
	both	0.6	0.6	2539
Replace side covers, left or right/rubber mount		0.1	0.1	2520
Replace air box cover/rubber mount		0.1	0.1	2521
Replace front fender/chrome bracket		0.2	0.2	2522
Replace radiator trim cover	one side	0.1	0.1	2523
Replace radiator cover		0.2	0.2	2524
Replace fuel tank assembly		1.7	1.7	2541
Replace fuel tank gasket/ lock ring		0.4	0.4	2548
Replace fuel gauge sending unit		0.5	0.5	2564
Replace license plate bracket		0.3	0.3	2590
BELTS GUARDS				
Replace sprocket cover		0.1	0.1	2613
Replace debris deflector		0.1	0.1	2617
Replace belt guard		0.1	0.1	2616
EXHAUST SYSTEM				
Replace complete exhaust system and/or gaskets		0.6	0.6	2626
Replace exhaust pipe – dual exhaust system	front	0.6	0.6	2631
	rear	0.6	0.6	2636
Replace auxiliary volume/front clamp		0.5	0.5	2638
Replace any muffler/clamp		0.2	0.2	2646
Replace any exhaust shield		0.1	0.1	2661

Table 9-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
GENERAL				
Remove and install engine		4.0	4.0	3006
Check compression/leak down	front only	0.4	0.4	3020
	rear only	0.2	0.2	3021
	both	0.5	0.5	3022
Remove oil pan/inspection	includes gasket replacement	0.4	0.4	3009
Replace pan gasket		0.4	0.4	3030
Replace alternator cover/gasket		0.3	0.3	3040
Replace derby cover/o-ring		0.1	0.1	3042
Change shim/check clearance	one shim	0.2	0.2	3044

Table 9-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
CYLINDER HEAD				
Recondition cylinder head-includes removal of head and gasket	front head	5.4	5.4	3101
	rear head	6.2	6.2	3103
	both heads	6.4	6.4	3104
Replace cylinder head	one head	4.2	4.2	3106
	both heads	4.4	4.4	3108
Replace valve seal or spring after cylinder head removal	one seal or spring (intake or exhaust)	0.1	0.1	3131
	all seals and springs, one head	0.4	0.4	3132
Replace cylinder head gasket	front cylinder	4.2	4.2	3140
	rear cylinder	4.4	4.4	3142
Replace secondary cam chain tensioner	both	0.3	0.3	3155
Replace secondary guide	front	4.3	4.3	3156
	rear	4.5	4.5	3157
Replace camshaft/sprocket		1.5	1.5	3158
Replace secondary cam chain	could be done in chassis; remove engine if heads are damaged	1.7	1.7	3159
CYLINDER AND PISTON				
Replace piston rings – includes deglazing cylinder	one cylinder	9.5	9.5	3206
	both cylinders	9.7	9.7	3216
Replace piston and piston rings – includes removal of cylinder head and fitting new piston with rings,	one cylinder	9.5	9.5	3221
	both cylinders	9.7	9.7	3231
Replace cylinder liner and piston	one cylinder	0.1	0.1	3237
Deglaze/measure one cylinder		0.2	0.2	3238
CAM COVER				
Replace cam cover/gasket, lower	front	1.2	1.2	3319
	rear	1.2	1.2	3320
	both	1.4	1.4	3321
Replace cam cover/gasket, upper	front	1.1	1.1	3322
	rear	1.1	1.1	3324
	both	1.2	1.2	3329
Replace cam cover gasket, inner	front	1.2	1.2	3330
	rear	1.2	1.2	3332
	both	1.4	1.4	3334
Replace secondary top guide		1.2	1.2	3350
CRANKCASE				
Replace crankcases	includes remove and install engine	10.7	10.7	3406
Seal crankcase only		4.6	4.6	3407
Replace crankshaft	includes remove and install engine	5.8	5.8	3470
Remove primary crank gear from crank	add to crankshaft replacement	0.2	0.2	3471
Replace primary cam chain tensioner		0.4	0.4	3472
Replace primary cam chain guide		0.4	0.4	3473
Replace primary cam chain	can be done in chassis, depends on damage	1.9	1.9	3474
Recondition cylinder head-head removed (for non-related repairs)	One head	1.7	1.7	3425
Replace oil pump and/or O-rings		0.8	0.8	3341

Table 9-3. Engine

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
Replace main bearing shell		4.6	4.6	3475
Replace connecting rod		9.5	9.5	3476
Replace limiter assembly		0.5	0.5	3477
Replace gear, ball clutch		0.6	0.6	3478
Replace dipstick		0.1	0.1	3480
BALANCER SYSTEM				
Replace balancer shaft/crankcase bearing	includes bearings, outer and inner	6.9	6.9	3450
Replace primary crank gear	engine can stay in frame	1.3	1.3	3451
Replace balancer shaft gear/bolt	engine can stay in frame	1.1	1.1	3453
FUEL SYSTEM				
Replace air cleaner bottom		0.2	0.2	3545
Replace air cleaner cover/snorkle		0.1	0.1	3547
Filter element cap		0.1	0.1	3549
Replace filter element		0.1	0.1	3551
Replace bottom to upper seal		0.1	0.1	3553
Replace air cleaner bottom gasket to throttle body		0.2	0.2	3555
Replace velocity stack		0.2	0.2	3557
Replace fuel rail		0.6	0.6	3559
Throttle body boot/clamp		0.5	0.5	3561
Replace fuel line	one or both lines	0.3	0.3	3563
Replace throttle body		0.4	0.4	3565
Replace breather hose	inside air box	0.1	0.1	3567
	front	0.2	0.2	3569
	rear	0.1	0.1	3571
EVAPORATIVE EMISSIONS SYSTEM				
Replace canister	California vehicles only	0.2	0.2	3527
Replace vapor valve		0.2	0.2	3528
Replace any one hose		0.1	0.1	3520
Replace evaporative purge solenoid		0.2	0.2	3522

Table 9-4. Clutch

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
CLUTCH				
Replace clutch master cylinder		0.4	0.4	4020
Replace clutch secondary actuator cylinder		0.3	0.3	4022
Clutch service	includes disassembly, cleaning, inspection, repair, assembly, replacement of friction plates	1.5	1.5	4011
Replace clutch release bearing		0.5	0.5	4016
Bleed clutch system for air		0.2	0.2	4024
Replace clutch cover/gasket		0.8	0.8	4026
Replace clutch line		0.5	0.5	4028
Replace clutch complete	new clutch assembly, exhaust removal	1.2	1.2	4030
Replace secondary actuator cylinder cover		0.1	0.1	4032

Table 9-5. Transmission

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
TRANSMISSION				
Overhaul transmission	includes disassembly, cleaning, inspection, replacing all parts (engine removed)	7.5	7.5	4306
Replace transmission complete		6.0	6.0	4305
Replace input shaft		6.0	6.0	4322
Replace output shaft		6.0	6.0	4323
Replace shift actuator assembly		7.1	7.1	4324
Replace output shaft flange/seal		0.6	0.6	4325
Replace shaft end bearing	add to job, per bearing	0.2	0.2	4326
Replace shifter drum/shaft	includes removal and installation	6.9	6.9	4331
Replace shifter forks and/or shaft	includes checking gear engagement	6.9	6.9	4343
Replace plastic cap		0.2	0.2	4371
Replace shift pedal and/or lever		0.2	0.2	4372
Replace transmission shifter shaft seal	engine removal is not necessary	0.3	0.3	4390
Replace shift shaft	engine removal is not necessary	0.3	0.3	4386
Replace shift linkage		0.1	0.1	4388

Table 9-6. Cooling

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
OIL AND COOLANT SYSTEMS				
Replace radiator assembly		1.0	1.0	4501
Replace radiator	oil lines and oil cooler removed	1.3	1.3	4503
Replace coolant hose/engine in		0.8	0.8	4505
Replace coolant pipe/engine in		1.1	1.1	4507
Replace coolant hose/engine out		0.8	0.8	4509
Replace coolant pipe/engine out		1.1	1.1	4511
Replace any clamp		0.1	0.1	4513
Replace shrink clamp	on any one coolant pipe	1.1	1.1	4515
Replace water pump/gasket/cover o-ring		1.0	1.0	4517
Replace thermostat/housing/gasket/o-rings		1.2	1.2	4519
Replace radiator cover		0.2	0.2	4521
Replace radiator trim cover		0.1	0.1	4523
Replace oil cooler		0.8	0.8	4525
Replace oil pipe/outlet		0.8	0.8	4527
Replace oil pipe/inlet		0.8	0.8	4529
Replace oil pipe connector/inlet		0.2	0.2	4531
Replace oil pipe connector outlet		0.5	0.5	4532

Table 9-6. Cooling

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
Replace oil filter mount		0.6	0.6	4533
Replace radiator cap		0.1	0.1	4535
Replace hose from cap to over flow bottle		0.1	0.1	4537
Replace coolant overflow bottle		0.1	0.1	4539
Replace overflow hose		0.3	0.3	4541
Replace hose trim cover		0.1	0.1	4543

Table 9-7. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
GENERAL				
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 VRSCA Service Manual, Part No. 99501-03 and diagnostics performed through the use of Digital Technician and Electrical Diagnostics Manual, Part No. 99499-03.				
Lights and accessories – excluding turn signals		0.3	0.3	5016
CHARGING CIRCUIT				
Diagnose charging system	regulator inspection	0.2	0.2	5306
Diagnose charging system	milliamp draw	0.3	0.3	5308
Diagnose charging system	total current draw	0.4	0.4	5310
Diagnose charging system	open/grounded stator	0.8	0.8	5312
Diagnose system	AC output	0.8	0.8	5314
Diagnose charging system	regulator failure	0.8	0.8	5315
Diagnose charging system	voltage output	0.8	0.8	5316
Diagnose charging system	replace rotor	0.9	0.9	5319
STARTER CIRCUIT				
Starter inoperative	open/shorted/ground motor	0.8	0.8	5817
Starter inoperative	start button	0.9	0.9	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	0.4	0.4	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	0.9	0.9	5825
Starter inoperative	relay click; open in relay wiring	0.5	0.5	5827
Starter inoperative	nothing clicks; poor relay ground	0.6	0.6	5828
Starter inoperative	nothing clicks; short to voltage	0.6	0.6	5830
Starter inoperative	nothing clicks; open in wiring to or from starter button	0.6	0.6	5831
Starter inoperative	starter relay	0.3	0.3	5832
Slow starter crank or starter stalls	poor starter to battery connections, ground connections	0.5	0.5	5835
Starter spins	replace limiter (starter clutch)	0.3	0.3	5837
Starter inoperative	nothing clicks, TSM / TSSM	0.9	0.9	5838
Starter runs on	replace ball clutch (rotor assy.)	0.6	0.6	5839

Table 9-7. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
Starter inoperative	solenoid clicks; poor solenoid ground connections	0.4	0.4	5840
Replace starter solenoid	contacts includes starter motor removal	0.6	0.6	5845
Replace starter solenoid	relay click; bad solenoid contacts	0.6	0.6	5860
TURN SIGNALS/SECURITY SYSTEM				
Ignition switch open/low		0.6	0.6	6791
Ignition switch open/low		0.5	0.5	6793
Turn signal error		0.6	0.6	6791
Turn signal error		0.4	0.4	6796
Turn signal error		0.6	0.6	6823
Turn signal error	wiring	0.6	0.6	6825
Turn signal error	replace IM	0.5	0.5	6826
Alarm output		0.4	0.4	6830
Alarm output		0.5	0.5	6831
Alarm output		0.5	0.5	6832
Alarm output		0.7	0.7	6833
Alarm output		0.4	0.4	6835
Starter output high		0.5	0.5	6840
Starter output high		0.4	0.4	6841
Starter output high		0.6	0.6	6842
Accelerometer fault		0.5	0.5	6845
Serial data error		0.3	0.3	6060
Serial data error		0.4	0.4	6061
Serial data error		0.5	0.5	6062
Serial data error		0.4	0.4	6063
Serial data error		0.4	0.4	6064
Loss of IM serial data		0.4	0.4	6711
Loss of IM serial data		0.6	0.6	6712
Loss of IM serial data		0.5	0.5	6720
Loss of IM serial data		0.5	0.5	6721
Loss of IM serial data		0.5	0.5	6722
Loss of IM serial data		0.3	0.3	6854
Serial data error		0.6	0.6	6036
Serial data error		0.6	0.6	6039
Serial data error		0.8	0.8	7993
Serial data error		0.4	0.4	7994
Serial data error		0.3	0.3	7995
Serial data error		0.5	0.5	7997
Serial data error		0.8	0.8	7998
Serial data error		0.5	0.5	7999
Battery voltage high		0.3	0.3	7770
INSTRUMENTS				
Replace speedometer	cosmetics only	0.1	0.1	6003
Replace bezel		0.1	0.1	6044

Table 9-7. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
ELECTRONIC SPEEDOMETER				
Diagnose inoperative, inaccurate or erratic speedometer	switch	0.4	0.4	6001
Diagnose inoperative, inaccurate or erratic speedometer		0.3	0.3	6006
Diagnose inoperative, inaccurate or erratic speedometer	inoperable	0.5	0.5	6020
Fuel sender	replace IM	0.2	0.2	6033
Fuel sender	shorted/grounded circuit	0.4	0.4	6034
Fuel sender	replace sender	0.5	0.5	6035
Fuel sender	open circuit	0.5	0.5	6037
Replace speedo reset boot		0.1	0.1	6043
Ignition/Accessory line voltage high		0.3	0.3	7770
Serial data error		0.4	0.4	6061
Serial data error		0.5	0.5	6062
Serial data error		0.3	0.3	6065
Serial data error		0.4	0.4	6066
Serial data error		0.5	0.5	6067
Serial data error		0.4	0.4	6068
Loss of serial data		0.6	0.6	6036
Loss of serial data		0.6	0.6	6039
Loss of serial data		0.4	0.4	6709
Loss of serial data		0.5	0.5	6710
Loss of serial data		0.4	0.4	6711
Loss of serial data		0.4	0.4	6712
Loss of serial data		0.4	0.4	6713
Loss of serial data		0.7	0.7	6716
Loss of serial data		0.7	0.7	6717
Loss of serial data		0.5	0.5	6720
Loss of serial data		0.3	0.3	6854
Loss of serial data		0.8	0.8	7993
Loss of serial data		0.4	0.4	7994
Loss of serial data		0.3	0.3	7995
Loss of serial data		0.5	0.5	7997
Loss of serial data		0.8	0.8	7998
Loss of serial data		0.5	0.5	7999
Loss of serial data		0.4	0.4	6709
Loss of serial data		0.5	0.5	6710
Loss of serial data		0.4	0.4	6711
Loss of serial data		0.4	0.4	6712
Loss of serial data		0.4	0.4	6713
Loss of serial data		0.7	0.7	6717

Table 9-7. Electrical

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
WIRING				
Replace connector anchor		0.1	0.1	5023
Replace main wiring harness		2.1	2.1	5026
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 fuse		0.1	0.1	5145
Replace fuse block		0.4	0.4	5196
SWITCHES				
Replace ignition switch		0.1	0.1	5129
Replace rear stoplight switch	includes filling/bleeding brakes	0.4	0.4	5141
Replace transmission neutral switch	includes diagnosis	0.3	0.3	5157
Replace oil pressure switch	includes diagnosis	0.4	0.4	5161
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	0.2	0.2	5189
Replace taillight light bulb or lens	includes diagnosis	0.1	0.1	5197
Replace taillamp assembly		0.1	0.1	5215
Replace turn signal light assembly:	front	0.5	0.5	5201
	rear	0.3	0.3	5205
License plate bracket		0.3	0.3	5237
License plate bracket light		0.2	0.2	5239
BATTERY/HORN				
Replace the battery		0.3	0.3	5705
Replace horn and/or bracket		0.2	0.2	5765

Table 9-8. V-Rod Accessories

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
ACCESSORIES				
Replace mirror		0.1	0.1	6513

Table 9-9. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
DIAGNOSTICS				
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 VRSCA Service Manual, Part No. 99501-03 and diagnostics performed through the use of Digital Technician.				
No check engine lamp/No ECM Power		0.6	0.6	7130
No check engine lamp/No ECM Power		0.3	0.3	7141
No check engine lamp/No ECM Power		0.4	0.4	7285
No check engine lamp/No ECM Power		0.5	0.5	7287
No check engine lamp/No ECM Power		0.4	0.4	7288
No check engine lamp/No ECM Power		0.3	0.3	7290
No check engine lamp/No ECM Power		0.8	0.8	7295
No check engine lamp/No ECM Power		0.7	0.7	7305
No check engine lamp/No ECM Power		0.3	0.3	7310
No check engine lamp/No ECM Power		0.3	0.3	7311
No check engine lamp/No ECM Power		0.4	0.4	7312
No check engine lamp/No ECM Power		0.3	0.3	7313
No check engine lamp/No ECM Power		0.4	0.4	7314
Engine cranks but will not start		0.3	0.3	7185
Engine cranks but will not start		0.7	0.7	7195
Engine cranks but will not start		0.6	0.6	7210
Engine cranks but will not start		0.5	0.5	7226
Engine cranks but will not start		0.5	0.5	7340
Engine cranks but will not start		0.4	0.4	7415
Engine cranks but will not start		0.4	0.4	7441
Engine cranks but will not start		0.6	0.6	7450
Engine cranks but will not start		0.6	0.6	7520
Engine cranks but will not start		0.8	0.8	7992
System relay		0.4	0.4	7853
System relay		0.3	0.3	7865
System relay		0.5	0.5	7866
System relay		0.4	0.4	7888
System relay		0.4	0.4	7889
System relay		0.4	0.4	7900
System relay		0.5	0.5	7901
System relay		0.5	0.5	7902
System relay		0.2	0.2	7904
System relay		0.7	0.7	7906
System relay		0.3	0.3	7908
System relay		0.2	0.2	7909
System relay		0.2	0.2	7911
System relay		0.4	0.4	7912
Starts, then stalls		0.6	0.6	6036
Starts, then stalls		0.6	0.6	6039
Starts, then stalls		0.8	0.8	7993
Starts, then stalls		0.4	0.4	7994
Starts, then stalls		0.3	0.3	7995

Table 9-9. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
Starts, then stalls		0.5	0.5	7997
Starts, then stalls		0.8	0.8	7998
Starts, then stalls		0.5	0.5	7999
Combustion absent		0.5	0.5	7531
Combustion absent		0.3	0.3	7532
Combustion absent		1.0	1.0	7534
Combustion absent		0.5	0.5	7536
Combustion absent		0.2	0.2	7539
Combustion absent		0.7	0.7	7544
Combustion absent		0.5	0.5	7547
Combustion absent		0.3	0.3	7548
Combustion absent		0.4	0.4	7853
Combustion absent		0.7	0.7	7857
Combustion absent		0.7	0.7	7859
Combustion absent		0.4	0.4	7860
Idle air control		0.5	0.5	7490
Idle air control		0.5	0.5	7495
Idle air control		0.5	0.5	7505
Idle air control		0.5	0.5	7510
Idle air control		0.7	0.7	7516
Misfire at idle or under load		0.9	0.9	7131
Misfire at idle or under load		0.7	0.7	7134
Misfire at idle or under load		0.5	0.5	7139
Misfire at idle or under load		1.1	1.1	7144
Misfire at idle or under load		1.4	1.4	7147
Misfire at idle or under load		2.0	2.0	7149
Misfire at idle or under load		1.1	1.1	7152
Rough or rolling idle		0.9	0.9	7131
Rough or rolling idle		0.7	0.7	7134
Rough or rolling idle		0.5	0.5	7139
Rough or rolling idle		1.1	1.1	7144
Rough or rolling idle		1.4	1.4	7147
Rough or rolling idle		2.0	2.0	7149
Rough or rolling idle		1.1	1.1	7152
Emits black smoke		0.6	0.6	7596
Emits black smoke		0.6	0.6	7597
Emits black smoke		0.7	0.7	7598
Emits black smoke		0.9	0.9	7601
Emits black smoke		0.6	0.6	7602
Fan relay		0.5	0.5	6050
Fan relay		0.2	0.2	6051
Fan relay		0.8	0.8	6052
Fan relay		0.3	0.3	6053
Fan relay		0.8	0.8	6054
Purge solenoid		0.4	0.4	6860
Purge solenoid		0.4	0.4	6861
Purge solenoid		0.5	0.5	6862

Table 9-9. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
Purge solenoid		0.8	0.8	6863
Throttle position sensor		0.6	0.6	7555
Throttle position sensor		0.8	0.8	7565
Throttle position sensor		0.5	0.5	7575
Throttle position sensor		0.5	0.5	7580
Throttle position sensor		0.5	0.5	7585
Throttle position sensor		0.8	0.8	7590
Throttle position sensor		0.5	0.5	7595
Throttle position sensor		0.6	0.6	7605
Throttle position sensor		0.4	0.4	7610
Throttle position sensor		0.6	0.6	7615
Throttle position sensor		0.6	0.6	7650
MAP sensor		0.5	0.5	7630
MAP sensor		0.5	0.5	7635
MAP sensor		0.6	0.6	7640
MAP sensor		0.8	0.8	7641
MAP sensor		0.6	0.6	7642
MAP sensor		0.5	0.5	7645
MAP sensor		0.6	0.6	7650
MAP sensor		0.6	0.6	7655
Coolant temperature sensor		0.4	0.4	7675
Coolant temperature sensor		0.6	0.6	7680
Coolant temperature sensor		0.7	0.7	7685
Coolant temperature sensor		0.5	0.5	7690
Coolant temperature sensor		0.5	0.5	7695
Coolant temperature sensor		0.6	0.6	7710
Intake air temperature sensor		0.3	0.3	7725
Intake air temperature sensor		0.3	0.3	7730
Intake air temperature sensor		0.6	0.6	7735
Intake air temperature sensor		0.7	0.7	7740
Intake air temperature sensor		0.4	0.4	7745
Intake air temperature sensor		0.5	0.5	7750
Intake air temperature sensor		0.4	0.4	7760
Battery voltage test		0.3	0.3	7770
Battery voltage test		0.4	0.4	7775
Battery voltage test		0.4	0.4	7776
Fuel injectors		0.5	0.5	7790
Fuel injectors		0.6	0.6	7795
Fuel injectors		0.4	0.4	7805
Fuel injectors		0.6	0.6	7808
Fuel injectors		0.5	0.5	7809
Fuel injectors		0.6	0.6	7815
Fuel injectors		0.5	0.5	7825
Fuel injectors		0.6	0.6	7850
Ignition coil test		0.6	0.6	7301
Ignition coil test		0.5	0.5	7853
Ignition coil test		0.3	0.3	7856

Table 9-9. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
Ignition coil test		0.5	0.5	7858
Ignition coil test		0.5	0.5	7860
Ignition coil test		0.3	0.3	7865
Ignition coil test		0.5	0.5	7866
Ignition coil test		0.8	0.8	7870
Ignition coil test		0.5	0.5	7875
Ignition coil test		0.4	0.4	7902
Crank position sensor		0.4	0.4	7980
Crank position sensor		0.4	0.4	7981
Crank position sensor		0.3	0.3	7982
Crank position sensor		0.7	0.7	7983
Crank position sensor		0.4	0.4	7985
Crank position sensor		0.4	0.4	7986
Crank position sensor		0.4	0.4	7987
ECM failure		0.7	0.7	7913
Flash Error		0.3	0.3	7916
Vehicle speed signal		0.5	0.5	7938
Vehicle speed signal		0.4	0.4	7939
Vehicle speed signal		0.3	0.3	7953
Vehicle speed signal		0.4	0.4	7956
Vehicle speed signal		0.4	0.4	7966
Vehicle speed signal		0.4	0.4	7967
Vehicle speed signal		0.7	0.7	7968
Incorrect password		0.4	0.4	6701
Incorrect password		0.4	0.4	6702
Incorrect password		0.8	0.8	6703
Missing password		0.4	0.4	6704
Missing password		0.4	0.4	6705
Missing password		0.3	0.3	6707
Missing password		0.7	0.7	6708
Missing password		0.4	0.4	6726
Missing password		0.4	0.4	7980
Loss of serial data		0.4	0.4	6709
Loss of serial data		0.4	0.4	6710
Loss of serial data		0.4	0.4	6711
Loss of serial data		0.6	0.6	6712
Loss of serial data		0.4	0.4	6713
Loss of serial data		0.5	0.5	6714
Loss of serial data		0.7	0.7	6716
Loss of serial data		0.5	0.5	6720
Loss of serial data		0.5	0.5	6721
Loss of serial data		0.5	0.5	6722
Loss of serial data		0.5	0.5	6723
Loss of serial data		0.5	0.5	6724
Loss of serial data		0.4	0.4	6726
Loss of serial data		0.7	0.7	6727
Loss of serial data		0.5	0.5	6728

Table 9-9. Fuel Injection

ITEM	DESCRIPTION	MODELS		LABOR CODE
		HAZ	HAA	
Loss of serial data		0.3	0.3	6729
Loss of serial data		0.9	0.9	6730
Loss of serial data		0.5	0.5	6731
Loss of serial data		0.3	0.3	6733
Loss of serial data		0.3	0.3	6734
Loss of serial data		0.3	0.3	6854
Loss of serial data		0.4	0.4	7287
Loss of serial data		0.3	0.3	7301
Loss of serial data		0.4	0.4	7312
Loss of serial data		0.6	0.6	6036
Loss of serial data		0.6	0.6	6039
Loss of serial data		0.8	0.8	7993
Loss of serial data		0.4	0.4	7994
Loss of serial data		0.3	0.3	7995
Loss of serial data		0.5	0.5	7997
Loss of serial data		0.8	0.8	7998
Loss of serial data		0.5	0.5	7999

NOTES

2003 FLHRSEI2 MODEL

Table 10-1. Service

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PGE	
NEW			
Set-up and pre-delivery		2.8	---
1,000 mile service		3.2	---
REGULAR			
2,500 mile maintenance		0.7	---
5,000 mile maintenance		1.6	---
7,500 mile maintenance		0.7	---
10,000 mile maintenance		3.3	---
20,000 mile maintenance		4.0	---
25,000 mile maintenance		2.1	---
50,000 mile maintenance		6.3	---

Table 10-2. Chassis

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PGE	
WHEELS			
Replace axle covers	add to FRW wheel service times	0.1	2112
HANDLEBARS			
Replace handlebars		2.1	2206
Replace handlebar cover		0.3	2209
Replace throttle control cable	one or more - includes all adjustments	0.8	2241
Replace both rubber handlebar mounts		1.1	2246
Replace handlebar riser	one or both	1.1	2253
Replace handlebar clamp	one or both	0.9	2254
FRAME/SWING ARM/FRONT FORK			
Adjust steering head bearings		0.8	---
Change front fork oil		0.8	---
Replace front fork assembly		3.1	2311
Replace lower fork bracket and stem cover		0.1	2314
Replace lower fork bracket and stem		3.4	2316
Replace steering head cups and bearings, including bearing adjustment		3.4	2321
Replace upper fork bracket		2.8	2326
Replace fork lock		0.4	2329

All times listed in hours.

V.I.N. CODES

PGE FLHRSEI²

Use the labor codes for FLHRC-I Road King Classic model (FRW), except for the service procedures listed in this section.

Table 10-2. Chassis

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PGE	
Replace front nacelle		0.8	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	2.0	2341
	both sides	2.4	2342
Replace fork side	one side	1.3	2346
	both sides	1.6	2351
Replace fork tube	one side	1.5	2356
	both sides	1.8	2361
Replace shift lever peg		0.1	2392
Replace footboard / R&R footpegs		0.2	2394
BRAKES			
Replace brake pads	front – each caliper	0.1	2416
	rear	0.4	2421
Replace brake disc	front – one side	0.3	2436
	both sides	0.4	2437
	rear	1.0	2441
Replace rear brake pedal		0.3	2492
Replace rear brake pedal / cover		0.1	2496
SEATS/FENDERS/TANKS			
Replace seat		0.1	2506
Replace rider backrest		0.2	2509
Replace rider backrest bracket		0.2	2511
Replace rider backrest adjuster and/or cable		0.4	2512
Replace passenger backrest mounts / bushings	all or one	0.3	2513
Replace fender	front	1.0	2526
	rear	1.4	2531
Replace rear fender emblem		0.2	2534
Replace rear fender support		0.6	2536
Replace fuel tank assembly		1.3	2541
Replace fuel tank console / instrument panel		0.4	2553
Replace fuel tank console rubber molding strip		0.3	2557
Replace gasoline level sending unit		0.6	2564
Replace passenger backrest		0.1	6515
EXHAUST SYSTEM			
Replace complete exhaust system and/or gaskets		1.0	2626
Replace exhaust pipe	right side	0.9	2631
	left side	0.3	2636
Replace one muffler		0.2	2646
Replace one muffler end		0.1	2647
Replace one muffler heat shield		0.1	2649
Replace any one exhaust shield		0.1	2661
Replace one muffler support		0.2	2666

Table 10-3. Engine

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PGE	
CYLINDER HEAD			
Replace head bolt covers	all 4, add to FRW cylinder head service times	0.2	3109
Replace head bolt cover	one	0.1	3110
CRANKCASE			
Replace oil filter mount o-ring seals		0.2	3415
Replace crankcase vent line and/or seals and fittings		0.2	3417
Replace oil filter mount bypass cover and/or gasket		0.2	4534
Replace oil filter mount thermostat end cap and/or gasket		0.1	4519
Replace thermostatic valve	includes test procedures	0.4	4520
Replace oil cooler guard		0.1	4521
Replace oil cooler		0.2	4525
Replace oil cooler mounting bracket		0.2	4526
Replace oil cooler hose and/or clamp	one or both	0.3	4528
Replace oil filter mount/fittings		0.3	4533

Table 10-4. Drive and Clutch

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PGE	
CLUTCH			
Replace and/or Service clutch control lever		0.1	2221
Replace clutch release plate and/or bearing		0.3	4016
Replace clutch actuator cover and/or gasket	includes fluid refill and system bleed	1.5	4018
Replace clutch push rod		0.3	4019
Replace clutch master cylinder	includes fluid refill and system bleed	0.4	4020
Rebuild clutch master cylinder assembly	includes gasket replacement, fluid refill, and system bleed	0.6	4021
Rebuild clutch actuator assembly	includes gasket replacement, fluid refill, and system bleed	1.6	4022
Bleed clutch system of air	includes fluid refill	0.1	4024
Replace clutch master cylinder cover and/or gasket		0.1	4026
Replace clutch line	includes fluid refill and system bleed	0.5	4028
Replace clutch line gaskets and/or o-ring	leak repair, fluid refill, and system bleed	0.2	4029

Table 10-5. Electrical

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PGE	
WIRING			
Repair/diagnose indicator lamp wiring		0.3	5048
Handlebar harness	repair short	2.1	6551
Handlebar harness	repair open	2.1	6552
Switches~~~			
Replace ignition switch		0.6	5129
LIGHTS			
Replace indicator lamp assembly	includes diagnosis	0.3	5191
Replace turn signal light assembly	front	0.9	5201
	rear - one side	0.7	5205
	rear - both sides	0.9	5238
Replace rear turn signal bar		0.8	5207
Replace front turn signal mounting bracket	each side	0.1	5240
INSTRUMENTS – INCLUDES DIAGNOSIS			
Replace tachometer		0.3	6009
Replace tachometer cover		0.3	6027

Table 10-6. FLHRSEI2 Accessories

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PGE	
ACCESSORIES			
Replace windshield		0.1	6203
Replace windshield bushing	all or one	0.2	6208
Replace spring clip on windshield		0.2	6210
Replace one saddlebag filler strip		0.1	6278
Replace air cleaner insert / emblem		0.1	6280

2003 FXSTDSE MODEL

Table 10-7. Chassis

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PFD	
Replace handlebars		2.2	2206
Replace handlebar clamp	Include removing tachometer	0.3	2254
Replace riser filler	frontside	0.4	2256
	backside	0.1	2258
Replace brake pads	front-each caliper	0.1	2416
Replace brake pads	rear	0.3	2421
Replace brake disc	front-one side	0.3	2436
	front-both sides	0.4	2437
Bleed brake caliper	one or two front calipers or rear caliper	0.2	2446
Replace seat insert	front	0.2	2503
	rear	0.2	2504
Replace rear axle covers	left side	0.1	6503
	right side	0.3	6504
Replace chin fairing		0.2	6213
Replace chin fairing mounting bracket		0.5	6215
Replace lower frame tube covers	each	0.1	2315

Table 10-8. Electrical

ITEM	DESCRIPTION	MODEL	LABOR CODE
		PFD	
Replace left upper handlebar switch		0.6	5171
Replace right upper handlebar switch		0.8	5173
Replace front brake light switch		1.0	5176
Replace headlight shroud		0.4	5241

All times listed in hours.

V.I.N. CODES

PFD	FXSTDE
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Use the labor codes for FXSTDI Softail Deuce model (JBB), except for the following service procedures.

NOTES

12 MONTH "PNA" PARTS WARRANTY

DEALER INSTALLED ACCESSORIES WARRANTY JOB CODE AND JOB TIME SCHEDULE

The following labor codes and job times apply to dealer installed Genuine Motor Parts and Genuine Motor Accessories purchased and installed prior to initial retail vehicle delivery, for 1999 and later model year vehicles. All times shown are a calculated average for similar systems. Parts must be registered to the vehicle on the S.W.R. (registration) at time of sale.

Please note: This policy is valid in certain markets only.

Table 11-1. All Models

ITEM	DESCRIPTION	TIME	CODE
CHASSIS			
Foot controls, pegs, floorboards		0.2	8110
Handlebars, grips, levers, mirrors		0.2	8112
Wheels		0.9	8114
Suspension		0.5	8116
ELECTRICAL			
Lighting		0.1	8120
Audio		0.4	8122
Gauges		0.5	8124
DECORATIVE			
Fender tips		0.1	8130
Decorative Covers		0.1	8132
O.E. Style Items with Logos		0.1	8134
Visors		0.1	8136
Dashinators		0.2	8138
FUNCTIONAL			
Luggage Racks		0.8	8140
Chrome Fender Skirts/Rails		0.2	8141
Sissy Bars/Sideplates		0.2	8142
Chrome Rear Sprockets		0.8	8143
P&A S/B Support		0.3	8144
Chrome Caliper /Rotor Covers		0.4	8145
Chrome engine Guards/Dresser Bars		0.6	8146
Oil cooler/thermostats		0.5	8147
WINDSHIELDS/PLASTICS			
Sidecars		1.1	8150
Windshields		0.5	8152
Composite fenders, spoilers, lowers		0.8	8154
Hard Saddlebags		0.4	8156
Tourpaks		0.9	8158
CUT & SEW			
Soft Saddlebags		0.4	8160
Miscellaneous soft bags		0.1	8162

All times listed in hours.

Table 11-1. All Models

ITEM	DESCRIPTION	TIME	CODE
Customer Seats		0.2	8164
Backrest Pads		0.2	8166
Tank Panels		0.1	8168
PERFORMANCE			
Exhaust System		0.2	8170
Air Cleaners		0.2	8172
Carburetors		0.5	8173
P&A Head, Valves		3.5	8174
Cylinders/Pistons		3.2	8175
Cams		2.5	8176
Flywheel/Connecting Rod Assembly		7.0	8177
Ignition		0.7	8178
Cylinder heads/Gaskets		3.5	8179
Valve Train (pushrods, springs, etc.)		3.5	8180
Clutch		1.0	8190
Transmission		4.0	8195