

INDEX

A

Alternator..... 255-261

B

Ball bearing replacement 26-29
 Basic hand tools 13-19
 Battery 50-54
 charging system..... 251-254
 electrical cable connectors..... 54-55
 installation, new..... 54
 negative terminal 251
 Brakes..... 381-410
 bleeding the system 194-196, 398-401
 disc brakes 381-383
 front brake caliper 386-393
 front brake disc..... 397-398
 front brake hose replacement..... 396-397
 front brake pad replacement 383-386
 front master cylinder 393-396
 problems 41
 rear brake pedal and linkage 404-409
 rear drum brake 401-404
 Break-in 167

C

Camshaft..... 109-110
 Carburetor
 adjustments..... 235-237
 assembly..... 220-222
 fuel pump 241-243
 fuel shutoff valve and filter 240-241
 fuel tank..... 238-240
 operation 219-220
 service 220, 222-235
 throttle cable replacement 237-238
 troubleshooting..... 41
 Circuit breaker 306
 Cleaning solvent 23-24
 Clutch 39, 172-197
 bleeding the system 194-196
 hydraulic system 182-183

 master cylinder..... 183-190
 slave cylinder 190-194
 starter 276-278
 Cooling fan, shroud and fan duct 313-314
 Cooling system check 310
 Crankcase 151-161
 Crankcase breather system (U.S. only) 243
 Crankshaft and connecting rods..... 161-167
 Cylinder head and cylinder 114-125

E

Electrical system..... 250-308
 alternator 255-261
 battery cable connectors..... 54-55
 battery negative terminal..... 251
 charging system..... 251-254
 circuit breaker..... 306
 connectors 251
 components 294-305
 electric starter..... 267-276
 electrical connectors..... 251
 fuses 305-306
 lighting system..... 279-285
 problems..... 39-41
 starter clutch and gears 276-278
 starter relay 278-279
 starter system 250-251, 265-267
 switches..... 285-294
 transistorized ignition system 261
 voltage regulator/rectifier 254-255
 wiring diagrams 306, 423-439
 Engine 91-171
 break-in 167
 camshaft..... 109-110
 checks..... 35-37
 crankcase..... 151-161
 crankshaft and connecting rods..... 161-167
 cylinder head and cylinder 114-125
 front cylinder head cover
 and camshaft..... 96-102
 lubrication 38-39
 noises 38

Engine (cont.)	
oil pump	141-142
performance	37-38
pistons and piston rings	135-141
primary drive gear	142-147
principles	91
rear cylinder head cover and camshaft..	102-109
removal and installation	93-96
rocker arm assemblies	111-114
secondary gear assembly	147-151
servicing in frame	91-93
valves and valve components	125-135
Evaporative emission control system	
(California models only)	243-245
Exhaust system	245-247
Expandable supplies	12
External gearshift mechanism	198-203

F

Fasteners	6-10
Final drive unit, drive shaft and	
universal joint	368-373
Frame and body	411-419
footpegs	414-416
front fender	418
head side covers	414
seats	411-413
sidestand	417-418
side covers	413-414
Front suspension and steering	41, 323-360
front forks	348-358
fronthub	327-331
front wheel	323-327
handlebar	337-343
steering head and stem	343-346
steering head bearing races	346-348
tires	332-333
tires, changing	333-337
tires, repairs	337
wheels	331-332
Fuel, emission control and	
exhaust systems	219-249
assembly	220-222
carburetor adjustments	235-237
crankcase breather system (U.S. only) . . .	243
evaporative emission control system	
(California models only)	243-245
exhaust system	245-247
fuel pump	241-243
fuel shutoff valve and filter	240-241

fuel tank	238-240
operation	219-220
service	220, 222-235
throttle cable replacement	237-238
Fuses	305-306

G

Gasket remover	12
----------------------	----

H

Handlebar	337-343
Hoses and hose clamps	309-310, 320-322

I

Instruments, troubleshooting	35
Internal gearshift mechanism	213-218

L

Lighting system	279-285
Liquid cooling system	309-322
cooling fan, shroud and fan duct	313-314
cooling system check	310
hoses	320-322
hose and hose clamps	309-310
pressure check	310
radiator	310-313
thermostat and housing	314-316
water pump	316-320
Lubricants	10-11
Lubrication, maintenance and tune-up	44-90
battery	50-54
battery, installation new	54
battery, electrical cable connectors	54-55
periodic lubrication	55-63
periodic maintenance	63-76
pre-checks	48
routine checks	44-48
service intervals	48-49
tires and wheels	49-50
tune-up	76-88

M

Maintenance, periodic	63-76
Manual organization	1-2
Master cylinder	183-190
front	393-396
Mechanic's tips	24-26

O	
Oil pump	141-142
Oil seals	29-30
Operating requirements.....	35

P	
Parts replacement.....	6
Pistons and piston rings	135-141
Pre-checks.....	48
Precision measuring tools.....	19-22
Pressure check.....	310
Primary drive gear	142-147

R	
Radiator	310-313
Rear brake pedal and linkage.....	404-409
Rear cylinder head cover and camshaft	102-109
Rear drum brake	401-404
Rear suspension and final drive	361-380
final drive unit, drive shaft and universal joint.....	368-373
rear hub	363-368
rear wheel.....	361-363
shock absorbers	378-379
swing arm.....	373-378
Riding safety.....	30
Rocker arm assemblies	111-114
Routine checks.....	44-48
RTV gasket sealant	11

S	
Safety first	2-3
Seats	411-413
Secondary gear assembly.....	147-151
Service engine in frame	91-93
hints.....	3-5
intervals.....	48-49
Shock absorbers.....	378-379
Sidestand	417-418
Slave cylinder.....	190-194
Special tools	22-23
Starter	
clutch and gears.....	276-278
relay	278-279
system	265-267
Steering head and stem.....	343-346
Steering head bearing races	346-348

Supplies, expendable	12
Swing arm.....	373-378
Switches	285-294

T	
Thermostat and housing.....	314-316
Threadlock.....	11-12
Throttle cable replacement.....	237-238
Tires.....	49-50, 332-333
changing.....	333-337
repairs.....	337
Tools	
basic hand	13-19
precision measuring	19-22
special	22-23
Torque specifications.....	6
Transistorized ignition system	261-265
Transmission	39, 203-213
external gearshift mechanism	198-203
internal gearshift mechanism.....	213-218
Troubleshooting.....	34-43
brake problems.....	41
carburetor.....	41
clutch.....	39
electrical problems	39-41
engine checks.....	35-37
engine lubrication.....	38-39
engine noises.....	38
engine performance.....	37-38
engine principles	91
excessive vibration.....	41
front suspension and steering	41
instruments.....	35
operating requirements	35
transmission	39
Tune-up	76-87

V	
Valves and valve components.....	125-135
Vibration.....	41
Voltage regulator/rectifier.....	254-255

W	
Water pump	316-320
Wheels	
rear hub	363-368
rear	361-363
Wiring diagrams	423-439