

HOW TO USE THIS MANUAL

This service manual describes the service procedures for the VT600C/CD.

Follow the Maintenance Schedule (Section 3) recommendations to ensure that the vehicle is in peak operating condition and the emission levels are within the standards set by the U.S. Environmental Protection Agency and California Air Resources Board.

Performing the first scheduled maintenance is very important. It compensates for the initial wear that occurs during the break-in period.

Sections 1 and 3 apply to the whole motorcycle. Section 2 illustrates procedures for removal/installation of components that may be required to perform service described in the following sections. Sections 4 through 19 describe parts of the motorcycle, grouped according to location.

Find the section you want on this page, then turn to the table of contents on the first page of the section.

Most sections start with an assembly or system illustration, service information and troubleshooting for the section.

The subsequent pages give detailed procedures.

If you don't know the source of the trouble, go to section 21, Troubleshooting.

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HONDA MOTOR CO., LTD.
SERVICE PUBLICATION OFFICE

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SYMBOLS

The symbols used throughout this manual show specific service procedures. If supplementary information is required pertaining to these symbols, it would be explained specifically in the text without the use of the symbols.

| | |
|---|---|
|  | Replace the part(s) with new one(s) before assembly. |
|  | Use recommended engine oil, unless otherwise specified. |
|  | Use molybdenum oil solution (mixture of the engine oil and molybdenum grease in a ratio of 1 : 1). |
|  | Use multi-purpose grease (Lithium based multi-purpose grease NLGI # 2 or equivalent). |
|  | Use molybdenum disulfide grease (containing more than 3 % molybdenum disulfide, NLGI # 2 or equivalent). Example: Molykote® BR-2 plus manufactured by Dow Corning, U. S. A. Multi-purpose M-2 manufactured by Mitsubishi Oil, Japan |
|  | Use molybdenum disulfide paste (containing more than 40 % molybdenum disulfide, NLGI # 2 or equivalent). Example: Molykote® A-n paste, manufactured by Dow Corning, U. S. A. Honda Moly 60 (U. S. A. only) Rocol ASP manufactured by Rocol Limited, U. K. Rocol Paste manufactured by Sumico Lubricant, Japan |
|  | Use silicone grease. |
|  | Apply a locking agent. Use a middle strength locking agent unless otherwise specified. |
|  | Apply sealant. |
|  | Use DOT 4 brake fluid. Use the recommended brake fluid unless otherwise specified. |
|  | Use Fork or Suspension Fluid. |

NEW

1. GENERAL INFORMATION

| | | | |
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GENERAL SAFETY

CARBON MONOXIDE

If the engine must be running to do some work, make sure the area is well ventilated. Never run the engine in an enclosed area.

▲WARNING

The exhaust contains poisonous carbon monoxide gas that can cause loss of consciousness and may lead to death.

Run the engine in an open area or with an exhaust evacuation system in an enclosed area.

GASOLINE

Work in a well ventilated area. Keep cigarettes, flames or sparks away from the work area or where gasoline is stored.

▲WARNING

Gasoline is extremely flammable and is explosive under certain conditions. KEEP OUT OF REACH OF CHILDREN.

HOT COMPONENTS

▲WARNING

Engine and exhaust system parts become very hot and remain hot for some time after the engine is run. Wear insulated gloves or wait until the engine and exhaust system have cooled before handling these parts.

USED ENGINE OIL

▲WARNING

Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil. KEEP OUT OF REACH OF CHILDREN.

BRAKE FLUID

CAUTION:

Spilling fluid on painted, plastic or rubber parts will damage them. Place a clean shop towel over these parts whenever the system is serviced. KEEP OUT OF REACH OF CHILDREN.

GENERAL INFORMATION

COOLANT

Under some conditions, the ethylene glycol in engine coolant is combustible and its flame is not visible. If the ethylene glycol does ignite, you will not see any flame, but you can be burned.

▲WARNING

- *Avoid spilling engine coolant on the exhaust system or engine parts. They may be hot enough to cause the coolant to ignite and burn without a visible flame.*
 - *Coolant (ethylene glycol) can cause some skin irritation and is poisonous if swallowed. KEEP OUT OF REACH OF CHILDREN.*
 - *Keep out of reach of pets and some pets are attracted to the smell and taste of coolant and can die if they drink it.*
 - *Do not remove the radiator cap when the engine is hot. The coolant is under pressure and could scald you.*
-

If coolant contacts your skin, wash the affected areas immediately with soap and water. If coolant contacts your eyes, flush them thoroughly with fresh water and get immediate medical attention. If swallowed, the victim must be forced to vomit then rinse mouth and throat with fresh water before obtaining medical attention. Because of these dangers, keep out of the reach of children. Recycle used coolant in an ecologically correct manner.

SERVICE RULES

1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalents. Parts that don't meet HONDA's design specifications may cause damage to the motorcycle.
2. Use the special tools designed for this product to avoid damage and incorrect assembly.
3. Use only metric tools when servicing the motorcycle. Metric bolts, nuts and screws are not interchangeable with English fasteners.
4. Install new gaskets, O-rings, cotter pins, and lock plates when reassembling.
5. When tightening bolts or nuts, begin with the larger diameter or inner bolt first. Then tighten to the specified torque diagonally in incremental steps unless a particular sequence is specified.
6. Clean parts in cleaning solvent upon disassembly. Lubricate any sliding surfaces before reassembly.
7. After reassembly, check all parts for proper installation and operation.
8. Route all cable and harness routing as shown on pages 1-21 through 1-29, Cable and Harness Routing.

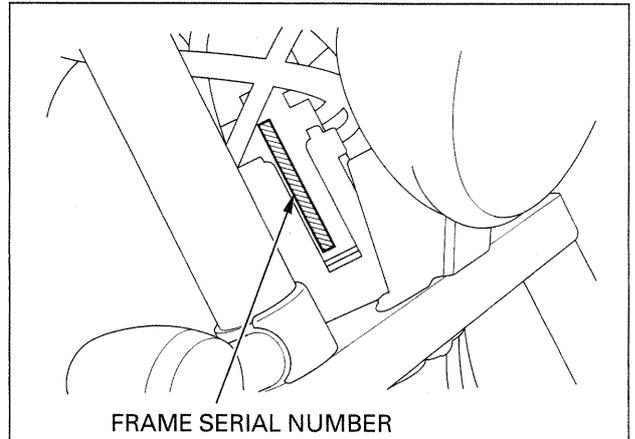
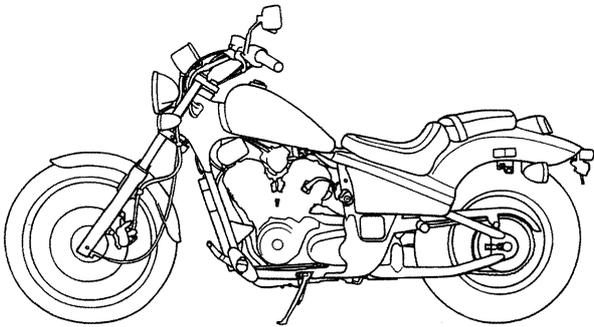
BATTERY HYDROGEN GAS & ELECTROLYTE

▲WARNING

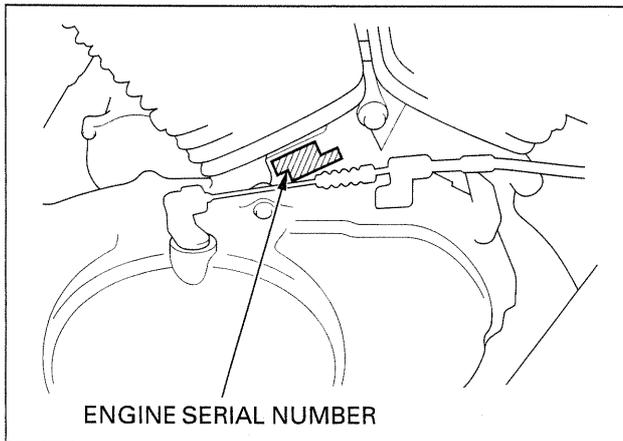
- *The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging.*
 - *The battery contains sulfuric acid (electrolyte). Contact with skin or eyes may cause severe burns. Wear protective clothing and a face shield.*
 - *If electrolyte gets on your skin, flush with water.*
 - *If electrolyte gets in your eyes, flush with water for at least 15 minutes and call a physician immediately.*
 - *Electrolyte is poisonous.*
 - *If swallowed, drink large quantities of water or milk and follow with milk of magnesia or vegetable oil and call a physician. KEEP OUT OF REACH OF CHILDREN.*
-

MODEL IDENTIFICATION

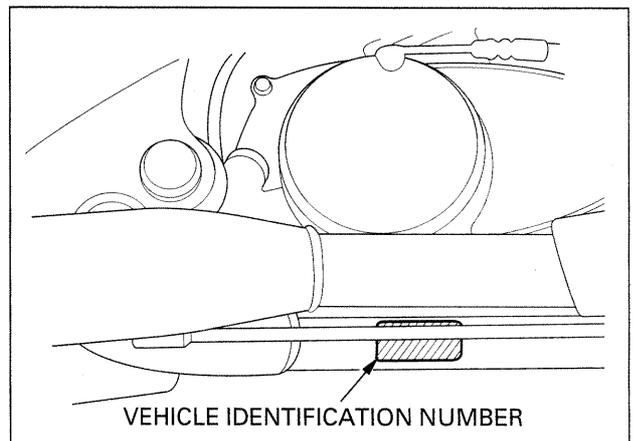
'97-'98:



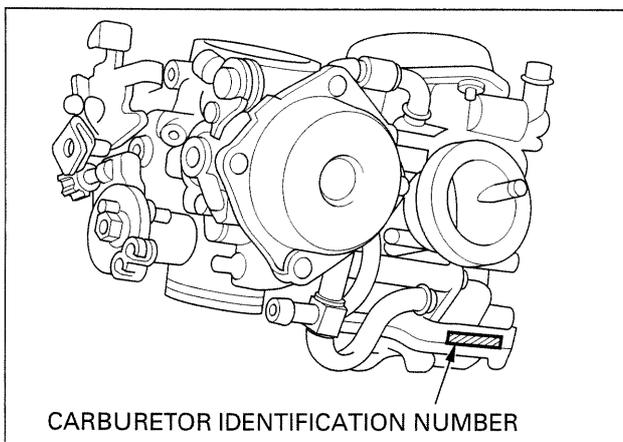
- (1) The frame serial number is stamped on the right side of the steering head.



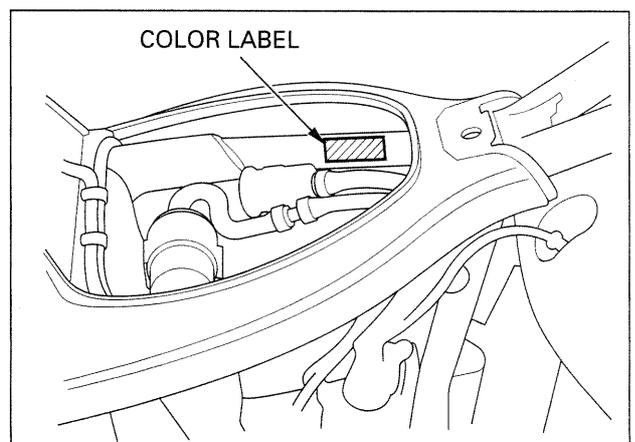
- (2) The engine serial number is stamped on the right side of the crankcase below the rear cylinder.



- (3) The Vehicle Identification Number (VIN) is located on the right side of the frame below the exhaust pipe.



- (4) The carburetor identification numbers are stamped on the intake side of the carburetor body as shown.

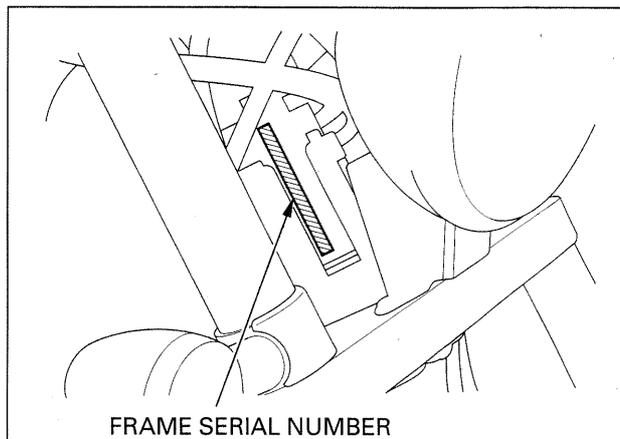
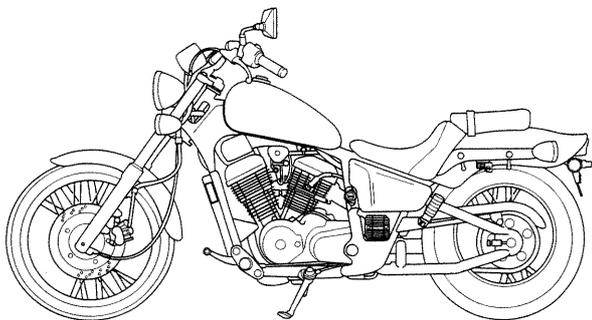


- (5) The color label is attached on the frame under the seat. When ordering color-coded parts, always specify the designated color code.

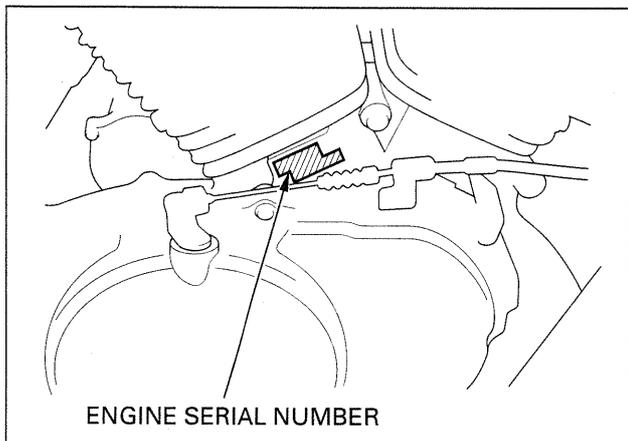
GENERAL INFORMATION

MODEL IDENTIFICATION

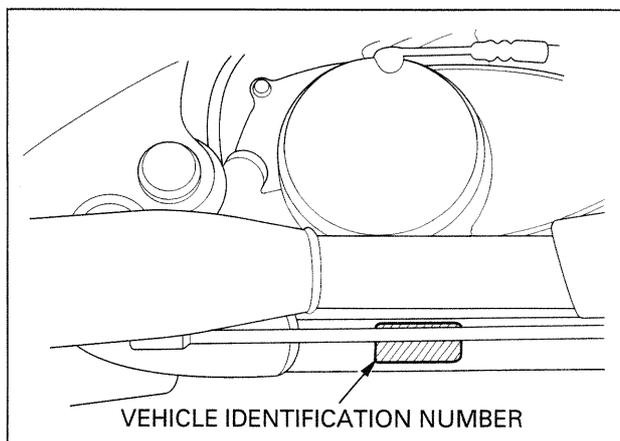
After '98:



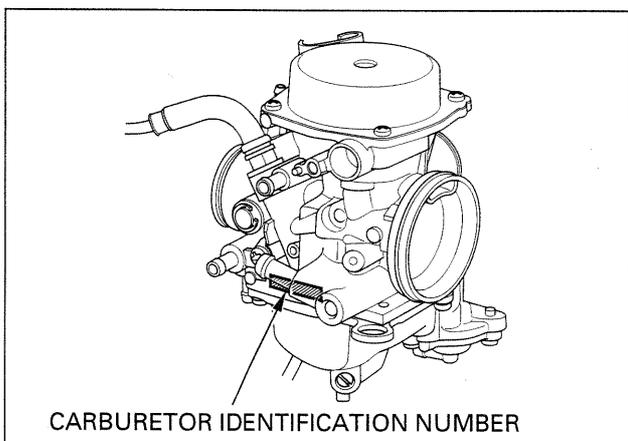
- (1) The frame serial number is stamped on the right side of the steering head.



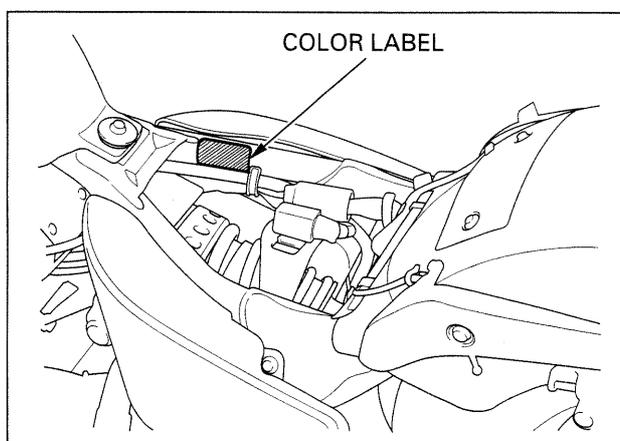
- (2) The engine serial number is stamped on the right side of the crankcase below the rear cylinder.



- (3) The Vehicle Identification Number (VIN) is located on the right side of the frame below the exhaust pipe.



- (4) The carburetor identification numbers are stamped on the fuel tube joint side of the carburetor body as shown.



- (5) The color label is attached on the frame under the seat. When ordering color-coded parts, always specify the designated color code.

SPECIFICATIONS

| GENERAL | | ITEM | SPECIFICATIONS | |
|----------------------------|----------------------|------------------|-------------------------------------|--------------------------------|
| DIMENSIONS | Overall length | | 2,310 mm (90.9 in) | |
| | Overall width | '97-'98: | 890 mm (35.0 in) | |
| | | After '98: | 880 mm (34.6 in) | |
| | Overall height | '97-'98: | 1,125 mm (44.3 in) | |
| | | After '98: | 1,120 mm (44.1 in) | |
| | Wheelbase | '97-'98: | 1,605 mm (63.2 in) | |
| | | After '98: | 1,600 mm (63.0 in) | |
| | Seat height | '97-'98: | 690 mm (27.2 in) | |
| | | After '98: | 650 mm (25.6 in) | |
| | Footpeg height | '97-'98: | 285 mm (11.2 in) | |
| | | After '98: | 283 mm (11.1 in) | |
| | Ground clearance | '97-'98: | 140 mm (5.5 in) | |
| | | After '98: | 135 mm (5.3 in) | |
| | Dry weight | | | |
| | VT600C | | | |
| | 49 state/Canada type | '97-'98: | 199 kg (439 lbs) | |
| | 49 state/Canada type | After '98: | 205 kg (452 lbs) | |
| | California type | '97-'98: | 199 kg (439 lbs) | |
| | California type | After '98: | 206 kg (454 lbs) | |
| | VT600CD | | | |
| | 49 state/Canada type | '97-'98: | 202 kg (445 lbs) | |
| | 49 state/Canada type | After '98: | 208 kg (459 lbs) | |
| | California type | '97-'98: | 203 kg (448 lbs) | |
| | California type | After '98: | 209 kg (461 lbs) | |
| | Curb weight | | | |
| | VT600C | | | |
| | 49 state/Canada type | '97-'98: | 213 kg (470 lbs) | |
| 49 state/Canada type | After '98: | 214 kg (472 lbs) | | |
| California type | '97-'98: | 214 kg (472 lbs) | | |
| California type | After '98: | 215 kg (474 lbs) | | |
| VT600CD | | | | |
| 49 state/Canada type | '97-'98: | 216 kg (476 lbs) | | |
| 49 state/Canada type | After '98: | 217 kg (478 lbs) | | |
| California type | '97-'98: | 217 kg (478 lbs) | | |
| California type | After '98: | 218 kg (481 lbs) | | |
| FRAME | Frame type | | Double cradle | |
| | Front suspension | | Telescopic fork | |
| | Front wheel travel | | 120 mm (4.7 in) | |
| | Rear suspension | | Swingarm | |
| | Rear wheel travel | | 90 mm (3.5 in) | |
| | Front tire size | | 100/90-19 57S | |
| | Rear tire size | | 170/80-15 M/C 77S | |
| | Tire brand | Front | '97-'98: | BRIDGESTONE L309 / DUNLOP F24 |
| | | | After '98: | DUNLOP F24 |
| | | Rear | '97-'98: | BRIDGESTONE G546 / DUNLOP K555 |
| | | | After '98: | DUNLOP D404 |
| | Front brake | | | Hydraulic single disc brake |
| | Rear brake | | | Internal expanding shoe |
| | Caster angle | | | 35° |
| | Trail length | '97-'98: | 164 mm (6.5 in) | |
| | After '98: | 161 mm (6.3 in) | | |
| Fuel tank capacity | | | 11.0 ℓ (2.91 US gal , 2.42 Imp gal) | |
| Fuel tank reserve capacity | | | 3.4 ℓ (0.90 US gal , 0.75 Imp gal) | |

NEW

GENERAL INFORMATION

Unit: mm (in)

| LUBRICATION SYSTEM ITEM | | STANDARD | SERVICE LIMIT |
|-------------------------------------|----------------------|---|---------------|
| Engine oil capacity | At draining | 2.1 ℓ (2.2 US qt, 1.8 Imp qt) | _____ |
| | At disassembly | 2.8 ℓ (3.0 US qt, 2.5 Imp qt) | _____ |
| | At oil filter change | 2.25 ℓ (2.38 US qt, 1.98 Imp qt) | _____ |
| Recommended engine oil | | HONDA GN4 or HP4 4-stroke oil or equivalent motor oil API service classification SF or SG Viscosity: SAE 10W-40 | _____ |
| Oil pressure at oil pressure switch | | 441 kPa (4.5 kgf/cm ² , 64 psi) at 6,000 rpm (80 °C/176 °F) | _____ |
| Oil pump rotor | Tip clearance | 0.15 (0.006) | 0.20 (0.008) |
| | Body clearance | 0.15 - 0.22 (0.006 - 0.009) | 0.35 (0.014) |
| | Side clearance | 0.02 - 0.07 (0.001 - 0.003) | 0.10 (0.004) |

| FUEL SYSTEM ITEM | | SPECIFICATIONS | |
|---|--------------------------|--|-----------------|
| | | 49 state/Canada type | California type |
| Carburetor identification number | '97-'98 | VDFDA | VDFEA |
| | After '98 | VE5AC | VE5AB |
| Main jet | '97-'98 | # 115 | |
| | After '98 | # 125 | |
| Slow jet | '97-'98 | # 40 | |
| | After '98 | # 45 | |
| Pilot screw | Initial/opening | See page 5-30 | |
| | High altitude adjustment | See page 5-37 | |
| Float level | '97-'98 | 7.0 mm (0.28 in) | |
| | After '98 | 18.5 mm (0.73 in) | |
| Base carburetor (for synchronization, '97-'98 models) | | Rear cylinder (# 1) | |
| Idle speed | | 1,200 ± 100 rpm | |
| Throttle grip free play | | 2-6 mm (1/12 - 1/4 in) | |
| Fuel pump flow capacity ('97-'98 models) | | Minimum 800 cm ³ (27.1 US oz, 28.2 Imp oz) per minute at 13 V | |

| COOLING SYSTEM ITEM | | SPECIFICATIONS |
|--------------------------------|---------------------|--|
| Coolant capacity | Radiator and engine | 1.6 ℓ (1.7 US qt, 1.4 Imp qt) |
| | Reserve tank | 0.4 ℓ (0.4 US qt, 0.4 Imp qt) |
| Radiator cap relief pressure | | 88 - 127 kPa (0.9 - 1.3 kgf/cm ² , 12.8 - 18 psi) |
| Thermostat | Begin to open | 80 - 84 °C (176 - 183 °F) |
| | Fully open | 95 °C (203 °F) |
| | Valve lift | 8 mm (0.3 in) minimum |
| Standard coolant concentration | | 50 % mixture with soft water |

GENERAL INFORMATION

| CLUTCH SYSTEM | | Unit: mm (in) | |
|--------------------------------------|------|-----------------------------------|---------------|
| ITEM | | STANDARD | SERVICE LIMIT |
| Clutch lever free play | | 10 – 20 (3/8 – 3/4) | — |
| Clutch spring free length | | 43.2 (1.70) | 41.6 (1.64) |
| Clutch disc thickness | A | 2.92 – 3.08 (0.115 – 0.121) | 2.6 (0.10) |
| | B | 2.92 – 3.08 (0.115 – 0.121) | 2.6 (0.10) |
| Clutch plate warpage | | — | 0.30 (0.012) |
| Clutch outer guide | I.D. | 21.991 – 22.016 (0.8658 – 0.8668) | 22.09 (0.870) |
| | O.D. | 31.959 – 31.975 (1.2582 – 1.2589) | 31.98 (1.259) |
| Clutch outer I.D. | | 32.000 – 32.025 (1.2598 – 1.2608) | 32.10 (1.264) |
| Oil pump drive sprocket I.D. | | 32.000 – 32.025 (1.2598 – 1.2608) | 32.10 (1.264) |
| Mainshaft O.D. at clutch outer guide | | 21.967 – 21.980 (0.8648 – 0.8654) | 21.92 (0.863) |

| ALTERNATOR/STARTER CLUTCH | | Unit: mm (in) | |
|----------------------------------|------|-----------------------------------|---------------|
| ITEM | | STANDARD | SERVICE LIMIT |
| Starter driven gear | I.D. | 37.000 – 37.025 (1.4567 – 1.4577) | 37.10 (1.461) |
| | O.D. | 57.749 – 57.768 (2.2736 – 2.2743) | 57.73 (2.273) |
| Starter clutch outer I.D. | | 74.414 – 74.440 (2.9297 – 2.9307) | 74.46 (2.931) |

GENERAL INFORMATION

Unit: mm (in)

| CYLINDER HEAD/VALVES ITEM | | | STANDARD | SERVICE LIMIT | |
|--|---|-----------------------------------|--|-----------------------------------|---------------|
| Cylinder compression | | | 1,324 ± 98 kPa (13.5 ± 1.0 kgf/cm ² , 192 ± 14 psi) at 400 rpm | 0.10 (0.004) | |
| Cylinder head warpage | | | | | |
| Valve, valve guide | Valve clearance | IN | 0.15 (0.006) | | |
| | | EX | 0.20 (0.008) | | |
| | Valve stem O.D. | IN | 5.475 – 5.490 (0.2156 – 0.2161) | 5.45 (0.215) | |
| | | EX | 6.555 – 6.570 (0.2581 – 0.2587) | 6.55 (0.258) | |
| | Valve guide I.D. | IN | 5.500 – 5.512 (0.2165 – 0.2170) | 5.56 (0.219) | |
| | | EX | 6.600 – 6.615 (0.2598 – 0.2604) | 6.65 (0.262) | |
| | Stem-to-guide clearance | IN | 0.010 – 0.037 (0.0004 – 0.0015) | 0.10 (0.004) | |
| | | EX | 0.030 – 0.060 (0.0012 – 0.0024) | 0.11 (0.004) | |
| | Valve guide projection above cylinder head | IN | 19.4 – 19.6 (0.76 – 0.77) | | |
| | | EX | 17.9 – 18.1 (0.70 – 0.71) | | |
| Valve seat width | IN/EX | 0.90 – 1.10 (0.035 – 0.043) | 1.5 (0.06) | | |
| Valve spring free length | Inner | IN | 38.11 (1.500) | 36.47 (1.436) | |
| | | EX | 38.81 (1.528) | 37.51 (1.477) | |
| | Outer | IN | 42.14 (1.659) | 40.58 (1.598) | |
| | | EX | 42.83 (1.686) | 41.25 (1.624) | |
| Camshaft | Cam lobe height | IN | '97 – '98 | 37.930 (1.4933) | 37.73 (1.485) |
| | | | After '98 | 37.188 – 37.348 (1.4641 – 1.4704) | 37.16 (1.463) |
| | | EX | '97 – '98 | 37.950 (1.4941) | 37.75 (1.486) |
| | | | After '98 | 37.605 – 37.765 (1.4805 – 1.4868) | 37.58 (1.480) |
| | Journal O.D. | | 21.959 – 21.980 (0.8645 – 0.8654) | 21.90 (0.862) | |
| | Runout | | 0.030 (0.0012) | 0.05 (0.002) | |
| | Oil clearance | | 0.050 – 0.111 (0.0020 – 0.0044) | 0.13 (0.005) | |
| | Identification marks | | "F": Front, "R": Rear | | |
| Rocker arm I.D. | IN/EX | 12.000 – 12.018 (0.4724 – 0.4731) | 12.05 (0.474) | | |
| Rocker arm shaft O.D. | IN/EX | 11.966 – 11.984 (0.4711 – 0.4718) | 11.91 (0.469) | | |
| Rocker arm-to-rocker arm shaft clearance | | 0.016 – 0.052 (0.0006 – 0.0020) | 0.07 (0.003) | | |

GENERAL INFORMATION

| CYLINDER/PISTON | | | Unit: mm (in) | | |
|--|--------------------------------------|---|---------------------------------|--------------|--|
| ITEM | | STANDARD | SERVICE LIMIT | | |
| Cylinder | I.D. | 75.000 – 75.015 (2.9528 – 2.9533) | 75.10 (2.957) | | |
| | Out of round | — | 0.06 (0.002) | | |
| | Taper | — | 0.06 (0.002) | | |
| | Warpage | — | 0.10 (0.004) | | |
| Piston, piston rings | Piston mark direction | "IN" mark facing toward the intake side | | — | |
| | Piston O.D. | 74.965 – 74.990 (2.9514 – 2.9524) | 74.90 (2.949) | | |
| | Piston O.D. measurement point | 10 mm (0.4 in) from bottom of skirt | | — | |
| | Piston pin bore I.D. | 18.002 – 18.008 (0.7087 – 0.7090) | 18.05 (0.711) | | |
| | Piston pin O.D. | 17.994 – 18.000 (0.7084 – 0.7087) | 17.98 (0.708) | | |
| | Piston-to-piston pin clearance | 0.002 – 0.014 (0.0001 – 0.0006) | 0.04 (0.002) | | |
| | Piston ring-to-ring groove clearance | Top | 0.015 – 0.045 (0.0006 – 0.0018) | 0.10 (0.004) | |
| | | Second | 0.015 – 0.045 (0.0006 – 0.0018) | 0.10 (0.004) | |
| | Piston ring end gap | Top | 0.10 – 0.30 (0.004 – 0.012) | 0.5 (0.02) | |
| | | Second | 0.10 – 0.30 (0.004 – 0.012) | 0.5 (0.02) | |
| Oil (side rail) | | 0.20 – 0.70 (0.008 – 0.028) | 0.9 (0.04) | | |
| Piston ring mark | Top/second | "N" mark | | — | |
| Cylinder-to-piston clearance | | 0.010 – 0.050 (0.0004 – 0.0020) | 0.10 (0.004) | | |
| Connecting rod small end I.D. | | 18.016 – 18.034 (0.7093 – 0.7100) | 18.07 (0.711) | | |
| Connecting rod-to-piston pin clearance | | 0.016 – 0.040 (0.0006 – 0.0016) | 0.06 (0.002) | | |

| CRANKSHAFT/TRANSMISSION | | | Unit: mm (in) | |
|--|----------------------------|---------------------------------|-----------------------------------|---------------|
| ITEM | | STANDARD | SERVICE LIMIT | |
| Crankshaft | Side clearance | 0.05 – 0.20 (0.002 – 0.008) | 0.30 (0.012) | |
| | Runout | — | 0.05 (0.002) | |
| | Crank pin oil clearance | 0.028 – 0.052 (0.0011 – 0.0020) | 0.07 (0.003) | |
| | Main journal oil clearance | 0.025 – 0.041 (0.0010 – 0.0016) | 0.06 (0.002) | |
| Transmission | Gear I.D. | M2, M4, C3 | 28.000 – 28.021 (1.1024 – 1.1032) | 28.04 (1.104) |
| | | C1 | 24.000 – 24.021 (0.9449 – 0.9457) | 24.94 (0.982) |
| | Bushing O.D. | M2, M4, C3 | 27.959 – 27.980 (1.1007 – 1.1016) | 27.94 (1.100) |
| | | C1 | 23.959 – 23.980 (0.9433 – 0.9441) | 23.94 (0.943) |
| | Bushing I.D. | M2 | 25.000 – 25.021 (0.9843 – 0.9851) | 25.04 (0.986) |
| | | C1 | 20.016 – 20.037 (0.7880 – 0.7889) | 20.06 (0.790) |
| | Gear-to-bushing clearance | M2, M4 | 0.020 – 0.062 (0.0008 – 0.0024) | 0.10 (0.004) |
| | | C1, C3 | 0.020 – 0.062 (0.0008 – 0.0024) | 0.10 (0.004) |
| | Mainshaft O.D. | M2 bushing | 24.959 – 24.980 (0.9826 – 0.9835) | 24.94 (0.982) |
| | Countershaft O.D. | C1 bushing | 19.980 – 19.993 (0.7866 – 0.7871) | 19.96 (0.786) |
| Bushing-to-shaft clearance | M2 | 0.020 – 0.062 (0.0008 – 0.0024) | 0.10 (0.004) | |
| | C1 | 0.023 – 0.057 (0.0009 – 0.0022) | 0.10 (0.004) | |
| Shift fork, fork shaft | Fork | I.D. | 13.000 – 13.018 (0.5118 – 0.5125) | 13.04 (0.513) |
| | | Claw thickness | 5.93 – 6.00 (0.233 – 0.236) | 5.6 (0.22) |
| | Fork shaft O.D. | | 12.966 – 12.984 (0.5105 – 0.5112) | 12.90 (0.508) |
| Shift drum O.D. (at the left side journal) | | | 11.966 – 11.984 (0.4711 – 0.4718) | 11.94 (0.470) |

GENERAL INFORMATION

Unit: mm (in)

| FRONT WHEEL/SUSPENSION/STEERING ITEM | | STANDARD | SERVICE LIMIT |
|--------------------------------------|-------------------------------|--|---------------|
| Minimum tire tread depth | | | 1.5 (0.06) |
| Cold tire pressure | Up to 90 kg (200 lb) load | 200 kPa (2.00 kgf/cm ² , 29 psi) | |
| | Up to maximum weight capacity | 200 kPa (2.00 kgf/cm ² , 29 psi) | |
| Axle runout | | | 0.20 (0.008) |
| Wheel rim runout | Radial | | 2.0 (0.08) |
| | Axial | | 2.0 (0.08) |
| Wheel hub-to-rim distance | | 32.3 ± 0.8 (1.27 ± 0.03) | |
| Wheel balance weight | | Max 70 g (2.5 oz) | |
| Fork | Spring free length | 333.9 (13.15) | 327.2 (12.88) |
| | Spring direction | Tightly wound coils should be at the top | |
| | Tube runout | | 0.20 (0.008) |
| | Recommended fork fluid | Pro-Honda Suspension Fluid SS-8 | |
| | Fluid level | 111 (4.4) | |
| | Fluid capacity | 449 ± 0.25 cm ³ (15.2 ± 0.02 US oz, 15.8 ± 0.09 Imp oz) | |
| Steering head bearing preload | | 0.9–1.4 kgf (2.0 – 3.1 lbf) | |

Unit: mm (in)

| REAR WHEEL/BRAKE/SUSPENSION ITEM | | STANDARD | SERVICE LIMIT |
|--|-------------------------------|---|---------------|
| Minimum tire tread depth | | | 2.0 (0.08) |
| Cold tire pressure | Up to 90 kg (200 lb) load | 200 kPa (2.00 kgf/cm ² , 29 psi) | |
| | Up to maximum weight capacity | 250 kPa (2.50 kgf/cm ² , 36 psi) | |
| Axle runout | | | 0.20 (0.008) |
| Wheel rim runout | Radial | | 2.0 (0.08) |
| | Axial | | 2.0 (0.08) |
| Wheel hub-to-rim distance | | 32.3 ± 0.8 (1.27 ± 0.03) | |
| Wheel balance weight | | Max 70 g (2.5 oz) | |
| Drive chain link | | 120L | |
| Drive chain slack | | 20–30 (3/4–1-1/4) | 50 (2.0) |
| Drive chain size | DID | 525 V8 | |
| | RK | 525 SM5 | |
| Rear brake | Drum I.D. | 160.0–160.3 (6.30–6.31) | 161 (6.3) |
| | Lining thickness | 5 (0.2) | 2 (0.1) |
| Brake pedal free play | | 20–30 (3/4–1-1/4) | |
| Shock absorber spring preload adjuster setting | | 2nd position | |

NEW

GENERAL INFORMATION

Unit: mm (in)

| HYDRAULIC BRAKE ITEM | STANDARD | SERVICE LIMIT |
|--------------------------|-----------------------------------|-----------------|
| Specified brake fluid | DOT 4 | ————— |
| Brake pad wear indicator | ————— | To groove |
| Brake disc thickness | 5.0 (0.20) | 4.0 (0.16) |
| Brake disc runout | ————— | 0.30 (0.012) |
| Master cylinder I.D. | 11.000 – 11.043 (0.4331 – 0.4348) | 11.05 (0.435) |
| Master piston O.D. | 10.957 – 10.984 (0.4314 – 0.4324) | 10.945 (0.4309) |
| Caliper cylinder I.D. | 27.000 – 27.050 (1.0630 – 1.0650) | 27.06 (1.065) |
| Caliper piston O.D. | 26.935 – 26.968 (1.0604 – 1.0617) | 26.93 (1.060) |

| BATTERY/CHARGING SYSTEM ITEM | | SPECIFICATIONS | |
|---------------------------------------|--|---------------------|---------------|
| Battery | Capacity | 12V-8 AH | |
| | Current leakage | 1.3 mA max. | |
| | Voltage (20 °C/68 °F) | Fully charged | 13.0 – 13.2 V |
| | | Needs charging | Below 12.3 V |
| | Charging current | Normal | 0.8 A/10 h |
| Quick | | 4.0 A/1 h max | |
| Alternator | Capacity | 345 W/5,000 rpm | |
| | Charging coil resistance (20 °C/68 °F) | 0.1 – 1.0 Ω | |
| Regulator/rectifier regulated voltage | | 14 – 15 V/4,000 rpm | |

| IGNITION SYSTEM ITEM | | SPECIFICATIONS | |
|---------------------------------------|-------------------------------------|-----------------------------------|-------------------|
| Spark plug | Standard | DPR8EA-9 (NGK) | X24EPR-U9 (DENSO) |
| | For cold climate (below 5 °C/41 °F) | DPR7EA-9 (NGK) | X22EPR-U9 (DENSO) |
| | For extended high speed riding | DPR9EA-9 (NGK) | X27EPR-U9 (DENSO) |
| Spark plug gap | | 0.80 – 0.90 mm (0.031 – 0.035 in) | |
| Ignition coil primary peak voltage | | 100 V minimum | |
| Ignition pulse generator peak voltage | | 0.7 V minimum | |
| Ignition timing "F" mark | | 6.5° BTDC at idle | |
| Advance | Start | '97 – '98 | 2,000 ± 200 rpm |
| | | After '98 | 1,800 ± 200 rpm |
| | Stop | 6,000 ± 200 rpm | |
| Full advance | | BTDC 30° | |

GENERAL INFORMATION

Unit: mm (in)

| ELECTRIC STARTER ITEM | STANDARD | SERVICE LIMIT |
|----------------------------|-------------|---------------|
| Starter motor brush length | 12.5 (0.49) | 6.5 (0.26) |

| LIGHTS/METERS/SWITCHES ITEM | | SPECIFICATIONS |
|--|---------------------------------|---|
| Bulbs | Headlight (High/low beam) | 12V-60/55W |
| | Brake/tail light | 12V-32/3CP × 2 |
| | Front turn signal/running light | 12V-21/5W × 2 |
| | Rear turn signal light | 12V-21W × 2 |
| | License light | 12V-4CP |
| | Instrument light | 12V-3.4W |
| | Turn signal indicator | 12V-1.7W |
| | High beam indicator | 12V-1.7W |
| | Neutral indicator | 12V-1.7W |
| Fuse | Main fuse | 30A |
| | Sub fuse | 10A × 3, 15A × 1 |
| Fuel pump flow capacity (min./minute) ('97 – '98 models) | | 800 cm ³ (27.1 US oz, 28.2 Imp oz) |
| Fan motor switch | Start to close (ON) | 98 – 102°C (208 – 216°F) |
| | Start to open (OFF) | 93 – 97°C (199 – 207°F) |
| Thermosensor resistance ('97 – '00) | 50 °C/122 °F | 130 – 180 Ω |
| | 80 °C/176 °F | 45 – 60 Ω |
| | 120 °C/248 °F | 10 – 20 Ω |
| Thermo switch (After '00) | Start to close (ON) | 112 – 118°C (259 – 270°F) |
| | Start to open (OFF) | Below 108°C (252°F) |

NEW

GENERAL INFORMATION

TORQUE VALUES

| FASTENER TYPE | TORQUE N·m (kgf·m, lbf·ft) | FASTENER TYPE | TORQUE N·m (kgf·m, lbf·ft) |
|------------------------|-------------------------------|-------------------------------|-------------------------------|
| 5 mm hex bolt and nut | 5 (0.5, 3.6) | 5 mm screw | 4 (0.4, 2.9) |
| 6 mm hex bolt and nut | 10 (1.0, 7) | 6 mm screw | 9 (0.9, 6.5) |
| 8 mm hex bolt and nut | 22 (2.2, 16) | 6 mm flange bolt (8 mm head) | 9 (0.9, 6.5) |
| 10 mm hex bolt and nut | 35 (3.5, 25) | 6 mm flange bolt (10 mm head) | 12 (1.2, 9) |
| 12 mm hex bolt and nut | 54 (5.5, 40) | and nut | |
| | | 8 mm flange bolt and nut | 26 (2.7, 20) |
| | | 10 mm flange bolt and nut | 39 (4.0, 29) |

- Torque specifications listed below are for important fasteners.
- Others should be tightened to standard torque values listed above.

- NOTES:
1. Apply sealant to the threads.
 2. Apply a locking agent to the threads.
 3. Apply molybdenum disulfide oil to the threads and flange surface.
 4. Apply grease to the threads.
 5. Stake.
 6. Apply oil to the threads and flange surface.
 7. Apply clean engine oil to the O-ring.
 8. U-nut.
 9. ALOC bolt: replace with a new one.

| ENGINE | ITEM | Q'TY | THREAD DIA. (mm) | TORQUE N·m (kgf·m, lbf·ft) | REMARKS |
|----------------------------------|---------------------------------|------------|---------------------|-------------------------------|---------|
| MAINTENANCE: | | | | | |
| | Spark plug | 4 | 12 | 14 (1.4, 10) | |
| | Crankshaft hole cap | 1 | 30 | 15 (1.5, 11) | NOTE 3 |
| | Timing hole cap | 1 | 22 | 15 (1.5, 11) | NOTE 3 |
| | Valve adjust cover | 8 | 6 | 12 (1.2, 9) | |
| | Valve adjusting screw lock nut | 6 | 7 | 23 (2.3, 17) | NOTE 6 |
| | Drain bolt | '97-'98: 1 | 14 | 34 (3.5, 25) | |
| | | After '98: | | 30 (3.1, 22) | |
| | Oil filter cartridge | 1 | 20 | 10 (1.0, 7) | NOTE 2 |
| | Vacuum plug ('97-'98) | 2 | 5 | 3 (0.33, 2.4) | |
| LUBRICATION SYSTEM: | | | | | |
| | Oil pressure switch | '97-'98: 1 | PT1/8 | 10 (1.0, 7) | NOTE 1 |
| | | After '98: | | 12 (1.2, 9) | |
| | Oil pressure switch cord | 1 | 4 | 2 (0.23, 1.7) | |
| | Oil pump driven sprocket bolt | 1 | 6 | 15 (1.5, 11) | NOTE 2 |
| | Oil pump cover bolt (After '98) | 3 | 6 | 13 (1.3, 9) | |
| ENGINE MOUNTING: | | | | | |
| | Drive sprocket plate bolt | 2 | 10 | 10 (1.0, 7) | |
| CLUTCH/GEARSHIFT LINKAGE: | | | | | |
| | Right crankcase cover bolt | 13 | 6 | 12 (1.2, 9) | |
| | Clutch cable holder bolt | 1 | 6 | 12 (1.2, 9) | |
| | Clutch lifter plate bolt | 4 | 6 | 12 (1.2, 9) | |
| | Clutch center lock nut | '97-'98: 1 | 18 | 127 (13.0, 94) | NOTE 5 |
| | | After '98: | | 128 (13.1, 95) | |
| | Primary drive gear bolt | 1 | 12 | 88 (9.0, 65) | NOTE 6 |
| | Gearshift cam plate bolt | 1 | 8 | 12 (1.2, 9) | NOTE 2 |
| | Left rear cover bolt | 1 | 6 | 12 (1.2, 9) | |
| | Gearshift return spring pin | 1 | 8 | 23 (2.3, 17) | |

GENERAL INFORMATION

| ENGINE (Cont'd) | | | | |
|---|------|------------------|----------------------------|---------|
| ITEM | Q'TY | THREAD DIA. (mm) | TORQUE N·m (kgf·m, lbf·ft) | REMARKS |
| ALTERNATOR/STARTER CLUTCH: | | | | |
| Left crankcase cover bolt | 10 | 6 | 12 (1.2, 9) | |
| Flywheel bolt | 1 | 12 | 127 (13.0, 94) | NOTE 6 |
| | | | 128 (13.1, 95) | |
| Stator mounting socket bolt | 4 | 6 | 12 (1.2, 9) | NOTE 2 |
| Starter one-way clutch socket bolt | 6 | 8 | 29 (3.0, 22) | NOTE 2 |
| | | | 30 (3.1, 22) | |
| Alternator cord clammer | 2 | 6 | 12 (1.2, 9) | NOTE 2 |
| Ignition pulse generator bolt | 4 | 6 | 12 (1.2, 9) | NOTE 2 |
| CYLINDER HEAD: | | | | |
| Cylinder head cover bolt | 4 | 6 | 10 (1.0, 7) | |
| Cam sprocket bolt | 4 | 7 | 23 (2.3, 17) | NOTE 2 |
| Camshaft holder 8 mm bolt | 6 | 8 | 23 (2.3, 17) | |
| 8 mm nut | 4 | 8 | 23 (2.3, 17) | |
| Camshaft end holder bolt | 4 | 6 | 9 (0.9, 6.5) | |
| | | | 10 (1.0, 7) | |
| Cam chain tensioner mounting bolt | 4 | 6 | 10 (1.0, 7) | NOTE 2 |
| Cylinder head 8 mm bolt | 4 | 8 | 23 (2.3, 17) | NOTE 6 |
| 6 mm bolt | 2 | 6 | 12 (1.2, 9) | NOTE 6 |
| 10 mm nut | 8 | 10 | 47 (4.8, 35) | NOTE 6 |
| CRANKSHAFT/TRANSMISSION: | | | | |
| Mainshaft bearing set plate bolt ('97-'98) | 1 | 6 | 12 (1.2, 9) | NOTE 2 |
| Countershaft bearing set plate bolt ('97-'98) | 3 | 6 | 9 (0.9, 6.5) | NOTE 2 |
| Bearing set plate bolt (After '98) | 4 | 6 | 12 (1.2, 9) | NOTE 2 |
| Cam chain tensioner set plate bolt | 2 | 6 | 12 (1.2, 9) | NOTE 2 |
| Crankcase 8 mm bolt | 13 | 8 | 23 (2.3, 17) | |
| 6 mm bolt | 7 | 6 | 9 (0.9, 6.5) | |
| | | | 12 (1.2, 9) | |
| Connecting rod bearing nut | 4 | 8 | 33 (3.4, 25) | NOTE 6 |
| Neutral switch | 1 | 10 | 12 (1.2, 9) | NOTE 1 |
| ELECTRIC STARTER: | | | | |
| Starter motor cable nut | 1 | 6 | 10 (1.0, 7) | |

| FRAME | | | | |
|--|------|------------------|----------------------------|---------|
| ITEM | Q'TY | THREAD DIA. (mm) | TORQUE N·m (kgf·m, lbf·ft) | REMARKS |
| FRAME/BODY PANELS/EXHAUST SYSTEM: | | | | |
| Exhaust pipe joint nut | 4 | 8 | 25 (2.5, 18) | |
| Exhaust cover bolt | 3 | 6 | 12 (1.2, 9) | |
| Muffler bracket mounting bolt | 1 | 8 | 20 (2.0, 14) | |
| nut | 4 | 8 | 20 (2.0, 14) | |
| Sub-frame mounting bolt | 2 | 6 | 12 (1.2, 9) | |
| nut | 2 | 6 | 12 (1.2, 9) | |
| MAINTENANCE: | | | | |
| Side stand pivot bolt | 1 | 10 | 10 (1.0, 7) | |
| nut | 1 | 10 | 29 (3.0, 22) | |
| | | | 30 (3.1, 22) | |
| FUEL SYSTEM: | | | | |
| Air cleaner housing cover bolt | 1 | 6 | 10 (1.0, 7) | |
| Air cleaner housing mounting bolt | 2 | 6 | 12 (1.2, 9) | |
| Fuel valve nut | 1 | 22 | 23 (2.3, 17) | |
| | | | 35 (3.6, 26) | |
| Fuel valve lever screw | 1 | 5 | 4 (0.4, 2.9) | |
| Fuel tank mounting bolt | 1 | 8 | 19 (1.9, 14) | |
| Throttle link cover screw | 1 | 4 | 2 (0.21, 1.5) | |

GENERAL INFORMATION

| FRAME (Cont'd) | | Q'TY | THREAD DIA. (mm) | TORQUE N-m (kgf-m, lbf-ft) | REMARKS |
|--|------------|------|---------------------|-------------------------------|----------------|
| COOLING SYSTEM: | | | | | |
| Radiator mounting bolt | | 1 | 6 | 9 (0.9, 6.5) | |
| Radiator grille mounting screw | | 1 | 6 | 9 (0.9, 6.5) | |
| Thermostat bracket bolt | | 1 | 6 | 10 (1.0, 7) | |
| Thermostat housing cover bolt | | 2 | 6 | 10 (1.0, 7) | |
| Thermosensor | '97-'00: | 1 | PT 1/8 | 10 (1.0, 7) | NOTE 1 |
| Thermo switch NEW | After '00: | 1 | PT 1/8 | 8 (0.8, 5.8) | NOTE 1 |
| Water hose band screw | | 4 | | 7 (0.7, 5.1) | |
| Fan motor switch | | 1 | 16 | 18 (1.8, 13) | NOTE 1 |
| ENGINE MOUNTING: | | | | | |
| Front engine mounting bolt (upper) | '97-'98: | 1 | 10 | 54 (5.5, 40) | |
| | After '98: | | | 55 (5.6, 41) | |
| (lower) | '97-'98: | 1 | 10 | 54 (5.5, 40) | |
| | After '98: | | | 55 (5.6, 41) | |
| Rear engine mounting bolt | '97-'98: | 1 | 10 | 54 (5.5, 40) | |
| | After '98: | | | 55 (5.6, 41) | |
| Engine bracket bolt (front) | '97-'98: | 4 | 8 | 26 (2.7, 20) | |
| | After '98: | | | 27 (2.8, 20) | |
| (rear) | '97-'98: | 2 | 8 | 26 (2.7, 20) | |
| | After '98: | | | 27 (2.8, 20) | |
| Gearshift pedal pinch bolt | | 1 | 6 | 12 (1.2, 9) | |
| Footpeg bracket bolt | | 4 | 10 | 39 (4.0, 29) | |
| FRONT WHEEL/SUSPENSION/STEERING: | | | | | |
| Steering stem nut | | 1 | 24 | 103 (10.5, 76) | See page 13-40 |
| Top thread A | | 1 | 26 | | |
| Top thread B | | 1 | 26 | | |
| Fork top bridge pinch bolt | | 2 | 7 | 11 (1.1, 8) | |
| Fork bottom bridge pinch bolt | | 2 | 10 | 49 (5.0, 36) | |
| Handlebar upper holder | | 4 | 8 | 29 (3.0, 22) | |
| Handlebar lower holder | | 2 | 8 | 23 (2.3, 17) | |
| Handlebar switch screw | | 4 | 5 | 4 (0.4, 2.9) | |
| Front axle | | 1 | 18 | 74 (7.5, 54) | |
| Front axle pinch bolt | | 2 | 7 | 22 (2.2, 16) | |
| Front brake disc mounting bolt | '97-'98: | 5 | 8 | 39 (4.0, 29) | NOTE 9 |
| | After '98: | | | 42 (4.3, 31) | |
| Fork cap | | 2 | 34 | 23 (2.3, 17) | |
| Fork socket bolt | | 2 | 10 | 29 (3.0, 22) | NOTE 2 |
| Spoke | | 56 | 4 | 4 (0.4, 2.9) | |
| REAR WHEEL/BRAKE/SUSPENSION: | | | | | |
| Rear axle nut | | 1 | 16 | 88 (9.0, 65) | NOTE 8 |
| Driven sprocket nut | | 5 | 10 | 64 (6.5, 47) | NOTE 8 |
| Rear shock absorber mounting nut (upper) | | 1 | 10 | 44 (4.5, 33) | |
| (lower) | | 1 | 10 | 44 (4.5, 33) | |
| Swingarm pivot nut | | 1 | 14 | 88 (9.0, 65) | |
| Rear brake stopper arm bolt | '97-'98: | 2 | 8 | 22 (2.2, 16) | |
| | After '98: | | | 21 (2.1, 15) | |
| Rear brake arm pinch bolt | '97-'98: | 2 | 8 | 26 (2.7, 20) | |
| | After '98: | | | 21 (2.1, 15) | |
| Rear brake middle rod joint bolt | | 2 | 6 | 9 (0.9, 6.5) | |
| Spoke | | 52 | 4 | 4 (0.4, 2.9) | |

GENERAL INFORMATION

| FRAME (Cont'd) | ITEM | Q'TY | THREAD DIA. (mm) | TORQUE N-m (kgf-m, lbf-ft) | REMARKS |
|--------------------------------|--|------|---------------------|-------------------------------|---------|
| HYDRAULIC BRAKE: | | | | | |
| | Brake caliper mounting bolt | 2 | 8 | 30 (3.1 , 22) | NOTE 9 |
| | Caliper pin bolt | 1 | 8 | 23 (2.3 , 17) | |
| | Bracket pin bolt | 1 | 8 | 13 (1.3 , 9) | |
| | Pad pin | 1 | 10 | 18 (1.8 , 13) | |
| | Pad pin plug | 1 | 10 | 2 (0.25 , 1.8) | |
| | Brake caliper bleeder | 1 | 8 | 6 (0.65 , 4.7) | |
| | Brake lever pivot bolt | 1 | 6 | 1 (0.1 , 0.7) | |
| | Brake lever pivot nut | 1 | 6 | 6 (0.6 , 4.3) | |
| | Master cylinder holder bolt | 2 | 6 | 12 (1.2 , 9) | |
| | Master cylinder cover screw | 2 | 4 | 1 (0.15 , 1.1) | |
| | Front brake light switch screw | 1 | 4 | 1 (0.12 , 0.9) | |
| | Brake hose oil bolt | 2 | 10 | 34 (3.5 , 25) | |
| LIGHTS/METERS/SWITCHES: | | | | | |
| | Side stand switch mounting bolt | 1 | 6 | 9 (0.9 , 6.5) | NOTE 9 |
| OTHER FASTENERS: | | | | | |
| | Fuel pump stay mounting nut ('97-'98) / Turn signal relay stay mounting nut (After '98) | 1 | 6 | 9 (0.9 , 6.5) | |

TOOLS

- NOTES: 1. Equivalent commercially available in U.S.A.
 2. Not available in U.S.A.
 3. Alternative tool.
 4. Newly provided tool.

| DESCRIPTION | TOOL NUMBER | REMARKS | REF. SEC. |
|--------------------------------|--|-----------------------|------------|
| Carburetor float level gauge | 07401-0010000 | | 5 |
| Pilot screw wrench | 07LMA-MT8010A with 07PMA-MZ2011A | | |
| Vacuum gauge | 07404-0030000 | NOTE 3: 07LMJ-001000A | 4 |
| Oil pressure gauge | 07506-3000000 | NOTE 1 | 4 |
| Oil pressure gauge attachment | 07510-4220100 | NOTE 1 | 4 |
| Lock nut wrench 17 × 27 mm | 07716-0020300 | NOTE 1 | 8 |
| Gear holder | 07724-0010100 | | 8 |
| Rotor puller | 07733-0020001 | NOTE 3: 07933-3290001 | 9 |
| Valve guide driver, 5.5 mm | 07742-0010100 | | 10 |
| Valve guide driver, 6.6 mm | 07742-0010200 | NOTE 2: 07942-6570100 | 10 |
| Attachment, 32 × 35 mm | 07746-0010100 | | 14 |
| Attachment, 42 × 47 mm | 07746-0010300 | | 12, 13, 14 |
| Attachment, 52 × 55 mm | 07746-0010400 | | 12, 13 |
| Pilot, 15 mm | 07746-0040300 | | 14 |
| Pilot, 17 mm | 07746-0040400 | | 14 |
| Pilot, 20 mm | 07746-0040500 | | 12, 13 |
| Pilot, 22 mm | 07746-0041000 | | 12, 14 |
| Pilot, 25 mm | 07746-0040600 | | 12 |
| Bearing remover shaft | 07746-0050100 | | 13, 14 |
| Bearing remover head, 17 mm | 07746-0050500 | | 14 |
| Bearing remover head, 20 mm | 07746-0050600 | | 13 |
| Attachment, 28 × 30 mm | 07946-1870100 | | 14 |
| Driver | 07749-0010000 | | 12, 13, 14 |
| Main bearing driver attachment | 07HMF-MM90400 | | 12 |
| Valve spring compressor | 07757-0010000 | NOTE 3: 07957-3290001 | 10 |

