

Introduction

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This service manual describes the service procedures for the CBR1000F.

This Model Specific Manual includes every service procedure that is of a specific nature to this particular model. Basic service procedures that are common to other Honda Motorcycle/Motor Scooter/ATVs are covered in the Common Service Manual. This Model Specific Service Manual should be used together with the Common Service Manual in order to provide complete service information on all aspects of this motorcycle.

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 17 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 describe the service procedure through system illustration. Refer to the next page for detail on how to use this manual.

If you are not familiar with this motorcycle, read Technical Feature in section 19.

If you don't know the source of the trouble, go to section 20 Troubleshooting.

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**HONDA MOTOR CO., LTD.
Service Publications Office**

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Sample manual. Download All pages at:

<http://www.aresrepairmanual.com/downloads/1992-1995-honda-cbr1000f-motorcycle-service-repair-workshop-manual/>

Important Safety Notice

⚠ WARNING

Indicates a strong possibility of severe personal injury or death if instructions are not followed.

CAUTION:

Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE:

Gives helpful information.

Detailed descriptions of standard workshop procedures, safety principles and service operations are not included. It is important to note that this manual contains some warnings and cautions against some specific service methods which could cause PERSONAL INJURY to service personnel or could damage a vehicle or render it unsafe. Please understand that those warnings could not cover all conceivable ways in which service, whether or not recommended by Honda, might be done or of the possibly hazardous consequences of each conceivable way, nor could Honda investigate all such ways. Anyone using service procedures or tools, whether or not recommended by Honda, must satisfy himself thoroughly that neither personal safety nor vehicle safety will be jeopardized by the service method or tools selected.

Type Codes

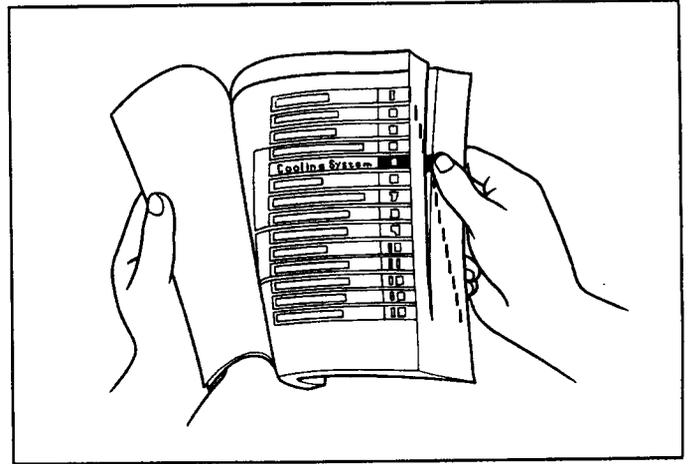
- Throughout this manual, the following abbreviations are used to identify individual model.

Code	Area Type
ED	European direct sales
E	U.K.
F	France
G (GI/GII)	Germany (Full power/Limited power)
U	Australia
ND	North Europe
SW	Switzerland
IT	Italy
H	Netherland
AR	Austria
SP	Spain

How To Use This Manual

Finding The Information You Need

- This manual is divided into sections which cover each of the major components of the motorcycle.
- To quickly find the section you are interested in, the first page of each section is marked with a black tab that lines up with one of the thumb index tabs before this page.
- The first page of each section lists the table of contents within the section.
- Read the service information and troubleshooting related to the section before you begin working.
- An index of the entire book is provided in the last chapter to directly locate the information you need.



Note On The Explanation Method Of This Manual

- The removal and installation of parts are for the most part illustrated by large and clear illustrations that should provide the reader with visual aid in understanding the major point for servicing.
- The system illustrations are augmented by call outs whose numbers or letters indicate the order in which the parts should be removed or installed.
- The sequence of steps represented numerically are differentiated from the ones represented alphabetically to notify the reader that they must perform these steps separately.
- For example, if the steps prior and up to camshaft removal are performed with the engine installed, but the subsequent steps like cylinder head removal require engine removal, the callouts are grouped in numerical and alphabetical orders.
- The illustrations may contain symbols to indicate necessary service procedures and precautions that need to be taken. Refer to the next page for the meaning of each symbol.
- Also in the illustration is a chart that lists information such as the order in which the parts is removed/installed, the name of the part, and some extra notes that may be needed.
- Step by step instructions are provided to supplement the illustrations when detailed explanation of the procedure is necessary or illustrations alone would not suffice.
- Service procedures required before or after the procedure described on that particular page, or inspection/adjustment procedures required following the installation of parts, are described under the title Requisite Service.
- Standard workshop procedures and knowledge covered in the Common Service Manual are abbreviated in this manual.

System illustration

Step sequence (numerals or alphabets)

Symbols

Requisite Service

Rear shock absorber removal/Installation Page 11-8

Procedure	Qty	Remarks
(1) Accessibility Check Shock absorber lower joint	1	Assemble in the reverse order of disassembly. Compress the shock absorber spring with the special tool, loosen the lock nut and remove the lower joint.
(2) Damper rod lock nut	1	
(3) Stopper rubber	1	
(4) Spring	1	At installation, install the spring with the tapered coil side facing down.
(5) Spring guide	1	
(6) Damper unit assembly	1	

Part name

Number of parts

Detailed description of the procedure

Damper Lower Joint Removal

Insert the shock absorber compressor on the shock absorber with the attachment.

NOTE:

- Install the compressor correctly against the spring and tighten the nut securely.

Shock absorber compressor 07902-0910000
Compressor attachment 07907-1100100

Compress the shock spring with the shock absorber compressor, loosen the lock nut and remove the lower joint.

CAUTION:

- Do not compress the spring faster than necessary.

Loosen the shock absorber compressor slowly and remove the shock absorber and attachment.

Detailed description of the procedure

Damper Lower Joint Installation

Insert the spring guide and spring on the damper unit.

Insert the shock absorber compressor on the shock absorber with the attachment and compress the shock spring.

Shock absorber compressor 07902-0910000
Compressor attachment 07907-1100100

Insert the stopper rubber on the damper rod. Secure the lock nut on the damper rod threads fully. Apply a locking paper to the damper rod thread. Secure the lower joint on the damper rod hole.

Tighten the lock nut to the specified torque.

Torque: 20 ft-lb (2.0 kg-m, 14 N-m)

NOTE:

- Install the compressor correctly against the spring and tighten the nut securely.

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11-8

Extra notes or precaution related to the service procedure

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.

	<p>Replace the part (s) with new one (s) before assembly.</p>
	<p>Use special tool.</p>
	<p>Use optional tool. These tools are obtained as you order parts.</p>
 <p>10 (1.0, 7)</p>	<p>Torque specification. 10 N•m (1.0 kg-m, 7 ft-lb)</p>
	<p>Use recommended engine oil, unless otherwise specified.</p>
	<p>Use molybdenum oil solution (mixture of the engine oil and molybdenum grease with the ratio 1 : 1).</p>
	<p>Use multi-purpose grease (Lithium Based multi-purpose grease NLGI #2 or equivalent).</p>
	<p>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</p>
	<p>Use molybdenum disulfide paste (containing more than 40% molybdenum disulfide, NLGI #2 or equivalent). Example: Molykote® G-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</p>
	<p>Use silicone grease.</p>
	<p>Apply a locking agent. Use the agent of the middle strength, unless otherwise specified.</p>
	<p>Apply sealant.</p>
	<p>Use brake fluid DOT 4. Use the recommended brake fluid, unless otherwise specified.</p>
	<p>Use Fork or Suspension Fluid.</p>

1. General Information

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Specifications	1-4	Cable & Harness Routing	1-23
Torque Values	1-14		

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/Transmission 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 Dust

Never use an air hose or dry brush to clean brake assemblies.

⚠ WARNING

- Inhaled asbestos fibers have been found to cause respiratory disease and cancer.

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

Nitrogen Pressure

For shock absorber with a gas-filled reservoir.

⚠ WARNING

- **Use only nitrogen to pressurize the shock absorber. The use of an unstable gas can cause a fire or explosion resulting in serious injury.**
- **The shock absorber contains nitrogen under high pressure. Allowing fire or heat near the shock absorber could lead to an explosion that could result in serious injury.**
- **Failure to release the pressure from a shock absorber before disposing of it may lead to a possible explosion and serious injury if it is heated or pierced.**

To prevent the possibility of an explosion, release the nitrogen by pressing the valve core. Then remove the valve stem from the shock absorber reservoir.

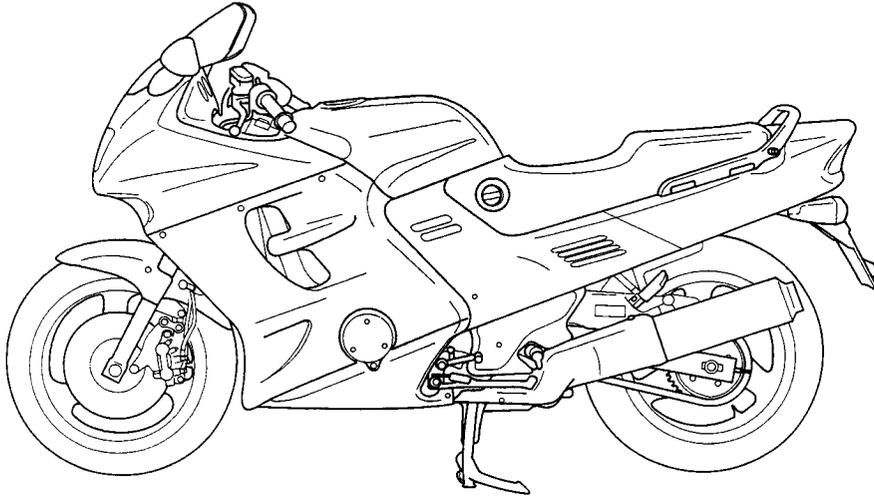
Before disposal of the shock absorber, release the nitrogen by pressing the valve core. Then remove the valve stem from the shock absorber.

Battery Hydrogen Gas & Electrolyte

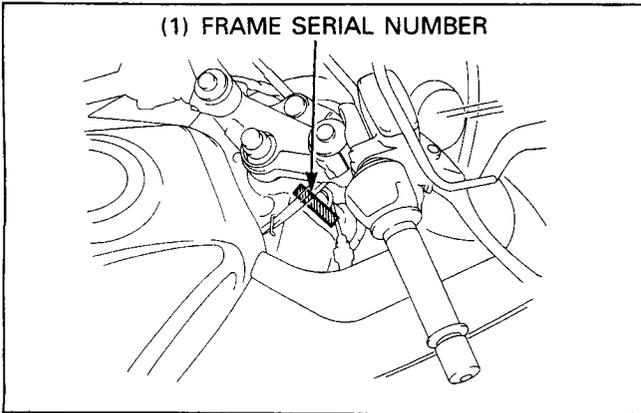
⚠ WARNING

- **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.**
- **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

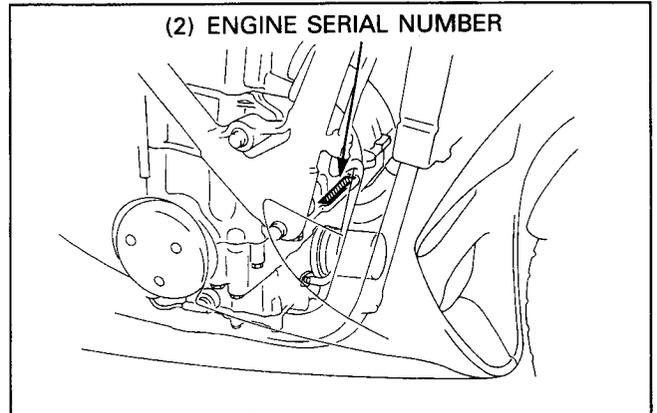


(1) FRAME SERIAL NUMBER

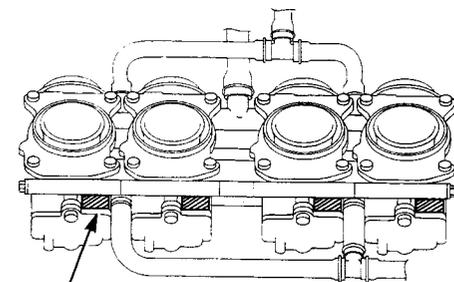


(1) The frame serial number is stamped on the right side of the steering head.

(2) ENGINE SERIAL NUMBER



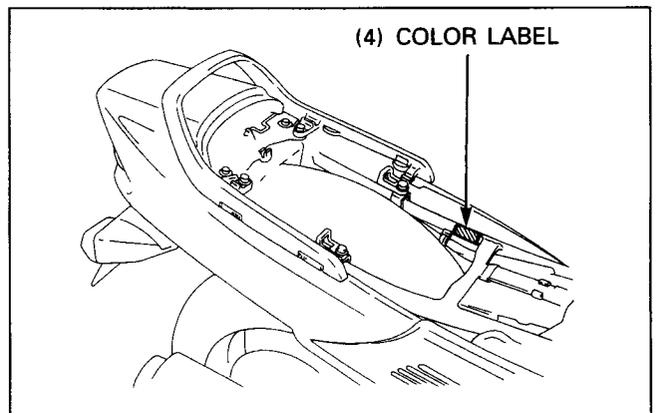
(2) The engine serial number is stamped on the front of the crankcase.



(3) CARBURETOR IDENTIFICATION NUMBER

(3) The carburetor identification number is stamped on the rear side of each carburetor.

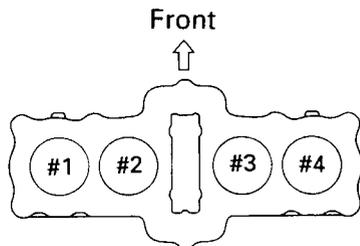
(4) COLOR LABEL



(4) The color label is attached as shown. When ordering color-coded parts, always specify the designated color code.

Specifications

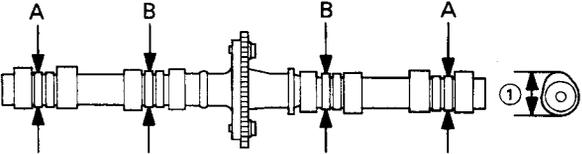
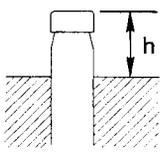
General		Item	Specifications
Dimensions	Overall length (G, SW, IT, ND type) (ED, E, F, AR, SP, U type)	Overall width Overall height Wheel base Seat height Footpeg height Ground clearance Dry weight Curb weight Maximum weight capacity	2,235 mm (88.0 in) 2,270 mm (89.4 in) 740 mm (29.1 in) 1,215 mm (47.8 in) 1,500 mm (59.1 in) 780 mm (30.7 in) 355 mm (14.0 in) 140 mm (5.5 in) 235 kg (518 lbs) 271 kg (597 lbs) 185 kg (408 lbs)
Frame	Frame type Front suspension Front wheel travel Rear suspension Rear wheel travel Rear damper Front tire size Rear tire size Tire brand (Bridgestone) FR/RR Tire brand (Dunlop) FR/RR Front brake Rear brake Caster angle Trail length Fuel tank capacity Fuel tank reserve capacity	Diamond Telescopic fork 130 mm (5.1 in) Swingarm 115 mm (4.5 in) Nitrogen gas filled damper 120/70 VR17-V270 170/60 VR17-V270 CYROX19E/CYROX16E (Except AR type) K510A/K510B Hydraulic double disc brake Hydraulic single disc brake 27° 110 mm (4.3 in) 22 liter (5.81 US gal, 4.84 Imp gal) 3.5 liter (0.91 US gal, 0.77 Imp gal)	
Engine	Bore and stroke Displacement Compression ratio Valve train Intake valve opens at 1 mm lift Intake valve closes at 1 mm lift Exhaust valve opens at 1 mm lift Exhaust valve closes at 1mm lift Lubrication system Oil pump type Cooling system Air filtration Crankshaft type Engine weight Firing order Cylinder arrangement Cylinder number	77.0 x 53.6 mm (3.03 x 2.11 in) 998 cm ³ (60.9 cu-in) 10.5 : 1 Chain drive and DOHC 15° BTDC 38° ABDC 40° BBDC 10° ATDC 0° BTDC 40° ABDC 40° BBDC 0° ATDC 5° BTDC 30° ABDC 40° BBDC 10° ATDC Forced pressure and wet sump Trochoid Liquid cooled Paper filter Unit type, 6 main journals 94.7 kg (209 lbs) 1 - 2 - 4 - 3 4 cylinder, inline	



General (Cont'd)		
	Item	Specifications
Carburetor	Carburetor type Throttle bore	CV (Constant Velocity) type, with flat valve 38 mm (1.5 in)
Drive Train	Clutch system Clutch operation system Transmission Primary reduction Final reduction Gear ratio 1st Gear ratio 2nd Gear ratio 3rd Gear ratio 4th Gear ratio 5th Gear ratio 6th Gearshift pattern	Multi-plate, wet Hydraulic operating 6-speeds constant mesh 1.785 (75/42) 2.470 (42/17) 2.750 (33/12) 2.066 (31/15) 1.647 (28/17) •1.368 (26/19) 1.173 (27/23) 1.045 (23/22) Left foot operated, return system 1 - N - 2 - 3 - 4 - 5 - 6
Electrical	Ignition system Starting system Charging system Regulator/rectifier type Lighting system	Full transistor digital ignition Electric starter motor Triple phase output alternator Transistor opened/triple phase, full-wave rectification Battery

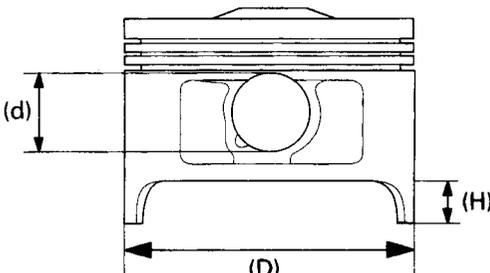
Unit: mm (in)

Cooling System		Standard	Service Limit
Item			
Coolant capacity (Radiator and engine)		2.6 liter (2.75 US qt, 2.29 Imp qt)	—
(Reserve tank)		0.4 liter (0.42 US qt, 0.35 Imp qt)	—
Radiator cap relief pressure		108–137 kPa (1.1–1.4 kg/cm ² , 16–20 psi)	—
Thermostat begins to open		80°–84°C (176–183°F)	—
Thermostat fully open		95°C (203°F)	—
Thermostat valve lift		8.0 (0.32) minimum	—

Cylinder Head		Standard	Service Limit
Cylinder compression		1,050–1,450 kpa (10.5–14.4 kg/cm ² , 149–206 psi)/400 min ⁻¹ (rpm)	—
Cylinder compression synchronization difference		40 mm Hg	—
Valve clearance IN		0.10 ± 0.02 (0.004 ± 0.001)	—
EX		0.18 ± 0.02 (0.007 ± 0.001)	—
Cylinder head warpage			0.07 (0.003)
Cam lobe height ① IN (ED, E, G, ND, SP, IT, U type)		35.668–35.748 (1.4042–1.4074)	35.62 (1.402)
IN (F type)		33.352–33.432 (1.3131–1.3162)	33.30 (1.311)
IN (SW, AR type)		34.907–34.987 (1.3743–1.3774)	34.85 (1.372)
EX (ED, E, G, ND, SP, IT, U type)		35.540–35.620 (1.3992–1.4024)	35.49 (1.397)
EX (F type)		35.540–35.620 (1.3992–1.4024)	35.49 (1.397)
EX (SW, AR type)		34.835–34.915 (1.3715–1.3746)	34.79 (1.370)
Camshaft runout			0.03 (0.001)
Camshaft oil clearance A		0.020–0.062 (0.0008–0.0024)	0.12 (0.005)
B		0.050–0.092 (0.0020–0.0036)	0.14 (0.006)
			
Camshaft journal O.D A (Except F type)		27.959–27.980 (1.1007–1.1016)	—
A (F type)		27.459–27.480 (1.0811–1.0819)	—
B (Except F type)		27.929–27.950 (1.0996–1.1004)	—
B (F type)		27.421–27.450 (1.0796–1.0807)	—
Valve stem O.D. IN		5.475–5.490 (0.2156–0.2161)	5.47 (0.215)
EX		5.455–5.470 (0.2148–0.2154)	5.45 (0.215)
Valve guide I.D. IN		5.500–5.512 (0.2165–0.2170)	5.55 (0.219)
EX		5.500–5.512 (0.2165–0.2170)	5.55 (0.219)
Stem-to-guide clearance IN		0.010–0.037 (0.0004–0.0015)	—
EX		0.030–0.057 (0.0012–0.0022)	—
Valve guide projection above cylinder head IN		17.8–18.0 (0.70–0.71)	—
EX		17.8–18.0 (0.70–0.71)	—
 <p>Before guide installation:</p> <ol style="list-style-type: none"> 1. Chill the valve guides in the freezer section of the refrigerator for about an hour. 2. Heat the cylinder head to 100–150°C (212–300°F) 			
Valve seat width		0.9–1.1 (0.035–0.043)	1.5 (0.6)
Valve spring free length inner IN		43.15 (1.699)	41.8 (1.65)
inner EX		43.15 (1.699)	41.8 (1.65)
outer IN		47.08 (1.854)	45.7 (1.80)
outer EX		47.08 (1.854)	45.7 (1.80)

General Information

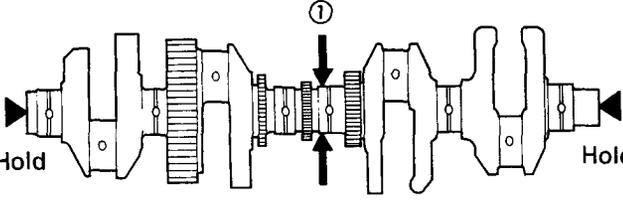
Unit: mm (in)

Cylinder/Piston	Standard	Service Limit
Cylinder I.D. Cylinder out of round Cylinder taper Cylinder warpage Piston mark direction Piston O.D. (D) Piston O.D. measurement point (H) Piston pin hole I.D. (d)	77.000–77.010 (3.0315–3.0319) _____ _____ _____ "IN" mark facing toward the intake side 76.970–76.990 (3.0303–3.0311) 15 mm (0.6 in) from the bottom 20.002–20.008 (0.7875–0.7877)	77.10 (3.305) 0.05 (0.002) 0.05 (0.002) 0.05 (0.002) _____ 76.87 (3.026) _____ 20.06 (0.790)
		
Cylinder-to-piston clearance Piston pin O.D. Piston-to-piston pin clearance Connecting rod-to piston pin clearance Top ring-to-ring groove clearance Second ring-to-ring groove clearance Top Ring end gap Second Ring end gap Oil ring (side rail) end gap Top ring mark Second ring mark	0.010–0.040 (0.0004–0.0016) 19.994–20.000 (0.7872–0.7874) 0.002–0.014 (0.0001–0.0006) 0.016–0.040 (0.0006–0.0016) 0.025–0.055 (0.0010–0.0022) 0.015–0.045 (0.0006–0.0018) 0.250–0.400 (0.0100–0.0157) 0.320–0.470 (0.0126–0.0185) 0.300–0.900 (0.0118–0.0354) Marking side facing up Marking side facing up	0.10 (0.004) 19.98 (0.787) 0.04 (0.002) 0.06 (0.002) 0.09 (0.004) 0.10 (0.004) 0.58 (0.023) 0.65 (0.026) 1.10 (0.043) _____ _____

Clutch System		
Recommended clutch fluid Clutch master cylinder I.D. Clutch master piston O.D. Clutch outer I.D. Clutch outer guide I.D. Mainshaft O. D. at clutch outer guide Clutch spring free length Clutch disc thickness A B Clutch plate warpage	DOT 4 brake fluid 14.000–14.043 (0.5512–0.5529) 13.957–13.984 (0.5495–0.5506) 47.005–47.030 (1.8506–1.8516) 27.995–28.012 (1.1022–1.1028) 27.980–27.993 (1.1016–1.1021) 46.7 (1.839) 3.42–3.58 (0.135–0.141) 3.72–3.33 (0.146–0.153) _____	_____ 14.06 (0.554) 13.94 (0.549) 47.10 (1.854) 28.08 (1.106) 27.97 (1.101) 44.7 (1.76) 3.1 (0.12) 3.1 (0.12) 0.30 (0.012)

General Information

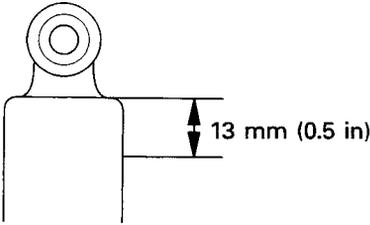
Unit: mm (in)

Crankshaft	Item	Standard	Service Limit	
<p>Connecting rod small end I.D. Connecting rod big end side clearance Crankshaft runout ①</p>  <p>Crankpin oil clearance Crankpin bearing selection Main journal oil clearance Main journal bearing selection</p>	<p>20.016–20.034 (0.7880–0.7887) 0.05–0.20 (0.002–0.008)</p>	<p>20.08 (0.791) 0.3 (0.01) 0.03 (0.001)</p>		
	<p>0.028–0.052 (0.0011–0.0020) See page 10-21</p>	<p>0.08 (0.003) —</p>		
	<p>0.021–0.045 (0.008–0.0018) See page 10-20</p>	<p>0.08 (0.003) —</p>		
	<p>Alternator</p>			
	<p>Alternator shaft collar spring free height</p>	<p>2.1 (0.08)</p>	<p>1.8 (0.07)</p>	

Unit: mm (in)

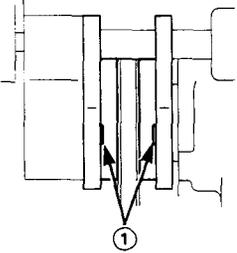
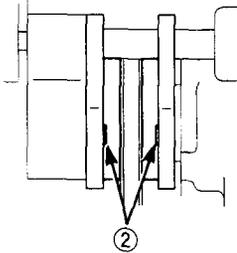
Wheels/Tires		Standard	Service Limit
Item			
Minimum tire tread depth (FR)		_____	1.5 (0.06)
	(RR)	_____	2.0 (0.08)
Cold tire pressure	Driver only (FR)	250 kPa (2.5 kg/cm ² , 36 psi)	_____
	Driver only (RR)	290 kPa (2.9 kg/cm ² , 42 psi)	_____
	Driver and passenger (FR)	250 kPa (2.5 kg/cm ² , 36 psi)	_____
	Driver and passenger (RR)	290 kPa (2.9 kg/cm ² , 42 psi)	_____
Front and rear axle runout		_____	0.2 (0.01)
Front and rear wheel rim runout	(Radial)	_____	2.0 (0.08)
	(Axial)	_____	2.0 (0.08)
Wheel balance weight	(Front)	_____	60 g (2.1 oz)
	(Rear)	_____	60 g (2.1 oz)
Drive chain slack		15–25 (0.6–1.0)	_____
Drive chain size/link	(DID)	DID50ZV/114	_____
	(RK)	RK50LFO/114	_____

Front Suspension		
Fork spring free length	446.3 (17.57)	437.4 (17.22)
Fork spring direction	Tapered wound coil facing down	_____
Fork tube runout	_____	0.2 (0.01)
Recommended fork oil	Fork fluid	_____
Fork oil level	173 (6.8)	_____
Fork oil capacity	418 cm ³ (14.1 US oz, 11.8 Imp oz)	_____
Steering bearing preload	1.1–1.6 kg (2.43–3.53 lb)	_____

Rear Suspension		
Damper compressed gas	Nitrogen	_____
Damper drilling point	13 (0.5)	_____
		

General Information

Unit: mm (in)

Brakes		Standard	Service Limit
Front	brake fluid	DOT 4	—
	brake pad wear indicator ①	—	To the groove
			
	brake disc thickness	5.0 (0.20)	4.0 (0.16)
	brake disc runout	—	0.30 (0.012)
	master cylinder I.D.	12.700–12.743 (0.5000–0.5017)	12.76 (0.502)
	caliper piston O.D.	12.657–12.684 (0.4983–0.4994)	12.65 (0.498)
	caliper cylinder I.D. (22.6 mm bore)	22.650–22.700 (0.8917–0.8937)	22.710 (0.8941)
	(25.4 mm bore)	25.400–25.450 (1.0000–1.0020)	25.460 (1.0024)
	(27.0 mm bore)	27.000–27.050 (1.0630–1.0650)	27.060 (1.0654)
Rear	caliper piston O.D. (22.6 mm bore)	22.585–22.618 (0.8892–0.8905)	22.560 (0.8882)
	(25.4 mm bore)	25.318–25.368 (0.9968–0.9987)	25.310 (0.9965)
	(27.0 mm bore)	26.916–26.968 (1.0597–1.0617)	26.910 (1.0594)
	Secondary master cylinder I.D.	12.700–12.743 (0.5000–0.5017)	12.76 (0.502)
	Secondary master piston O.D.	12.657–12.684 (0.4983–0.4994)	12.65 (0.498)
	brake fluid	DOT 4	—
	brake pedal height	75 (3.0)	—
	brake pad wear indicator ②	—	To the groove
			
	brake disc thickness	5.0 (0.20)	4.0 (0.16)
brake disc runout	—	0.30 (0.012)	
master cylinder I.D.	17.460–17.503 (0.6874–0.6891)	17.515 (0.6896)	
master piston O.D.	17.417–17.444 (0.6857–0.6868)	17.405 (0.6852)	
caliper cylinder I.D. (22.6 mm bore)	22.650–22.700 (0.8917–0.8937)	22.710 (0.8941)	
(25.4 mm bore)	25.400–25.450 (1.0000–1.0020)	25.460 (1.0024)	
(27.0 mm bore)	27.000–27.050 (1.0630–1.0650)	27.060 (1.0654)	
caliper piston O.D. (22.6 mm bore)	22.585–22.618 (0.8892–0.8905)	22.560 (0.8882)	
(25.4 mm bore)	25.318–25.368 (0.9968–0.9987)	25.310 (0.9965)	
(27.0 mm bore)	26.916–26.968 (1.0597–1.0617)	26.910 (1.0594)	

Battery/Charging System		
Alternator/charging coil resistance (At 20°C/68°F)	0~1.0Ω	—
Alternator field coil resistance (At 20°C/68°F)	0~4.0Ω	—
Regulator/rectifier regulated voltage	12.6–15.0V/5,000 min ⁻¹ (rpm)	—
Battery capacity	12V–14Ah	—
Specified current leakage	0.1 mA max.	—
Battery specific gravity (Fully charging)	1.270–1.290	—
(Needs charging)	Below 1.260	—

Ignition System		
Item	Standard	Service Limit
Spark plug (Standard : NGK)	DPR9EA-9	—
(Standard : NIPPONDENSO)	X27EPR-U9	—
Spark plug gap	0.8–0.9 mm (0.03–0.04 in)	—
Ignition timing "F"mark (Except SW, type)	10° BTDC/1,000 min ⁻¹ (rpm)	—
(SW, type)	5° BTDC/1,000 min ⁻¹ (rpm)	—
Full advance (Except G, F, SW, AR type)	40° BTDC/5,000 min ⁻¹ (rpm)	—
(G, F, SW, AR type)	37° BTDC/9,500 min ⁻¹ (rpm)	—
Ignition coil resistance (Primary: at 20°C/68°F)	2.5–3.2Ω	—
(Secondary with plug cap)	21–27kΩ	—
(Secondary without plug cap)	11–17kΩ	—
Pulse generator resistance (At 20°C/68°F)	460–580Ω	—

Starting System		
Starter motor brush length	12.0–13.0 mm (0.47–0.51 in)	6.5mm (0.26 in)

Lights/Meters/Switches		
Main fuse	30A	—
Fuse (Except G type)	10A x 5, 20A x 1	—
(G type)	10A x 6, 20A x 1	—
Headlight (High/low beam; E type)	12V–60/55W x 2	—
(High/low beam; Except E, IT, U, type)	12V–60/55W x 1, 12V60W x 1	—
(High/low beam; IT type)	12V–60/55W x 1	—
(High/low beam; U type)	12V–45/45W x 2	—
Tail/brake light	12V–5/21W x 2	—
Position light (Except U type)	12V–5W	—
Front turn signal light	12V–21W x 2	—
Rear turn signal light	12V–21W x 2	—
Instrument light	12V–1.7W x 4	—
Oil pressure warning indicator	12V–3.4W	—
Side stand warning indicator	12V–3.4W	—
High beam indicator	12V–3.4W	—
Turn signal indicator	12V–3.4W x 2	—
Neutral indicator	12V–3.4W	—
Fuel unit resistance (At full level)	10Ω	—
(At low level)	90Ω	—
Coolant temperature sensor resistance (50°C/122°F)	130–180Ω	—
(80°C/176°F)	45–60Ω	—
(120°C/248°F)	10–20Ω	—
Fan motor switch start to close (ON)	98–102°C (208–216°F)	—
stop opening	93–97°C (199–207°F)	—

Torque Values

Standard Fasteners Type	Torque N • m (kg-m, ft-lb)	Fasteners Type	Torque N • m (kg-m, ft-lb)
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	55 (5.5, 40)	and nut	
		8 mm flange bolt and nut	27 (2.7, 20)
		10 mm flange bolt and nut	40 (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. Stake.
 5. Apply oil to the threads and flange surface.
 6. Apply clean engine oil to the O-ring.
 7. Apply grease to the threads and flange surface.
 8. UBS bolt.
 9. U-nut.
 10. ALOC bolt.

Engine Item	Q'ty	Thread dia. (mm)	Torque N • m (kg-m, ft-lb)	Remarks
Maintenance:				
Timing hole cap	1	45	18 (1.8, 13)	Note 7
Spark plug	4	12	15 (1.5, 11)	
Lubrication System:				
Oil filter boss	1	20	18 (1.8, 13)	Note 2
Oil filter cartridge	1	20	10 (1.0, 7)	Note 5
Oil drain plug	1	14	30 (3.0, 22)	
Oil pass plate	3	6	12 (1.2, 9)	Note 2
Oil pipe C special bolt	2	6	12 (1.2, 9)	Note 2
Oil pump driven sprocket bolt	1	6	15 (1.5, 11)	Note 2
Oil pump assembly flange bolt	3	6	13 (1.3, 9)	
Oil pressure switch	1	PT 1/8	12 (1.2, 9)	Note 1
Oil pressure switch connector bolt	1	4	2.2 (0.22, 1.6)	
Fuel System:				
Carburetor connecting nut, 6 mm	2	6	10 (1.0, 7)	
5 mm	2	5	5.2 (0.52, 3.8)	
Cooling System:				
Water pump flange bolt	2	6	13 (1.3, 9)	
Water pipe D flange bolt	2	6	13 (1.3, 9)	

Engine (Cont'd)				
Item	Q'ty	Thread dia. (mm)	Torque N · m (kg-m, ft-lb)	Remarks
Cylinder Head/Valves:				
Cylinder head flange cap nut	4	10	45 (4.5, 33)	Note 5
Cylinder head flange nut	8	10	45 (4.5, 33)	Note 5
Cylinder head socket bolt	4	8	26 (2.6, 19)	
Cylinder head sealing bolt	1	18	32 (3.2, 23)	Note 2
Vacuum port socket bolt	1	5	3 (0.30, 2.2)	
Camshaft holder flange bolt	16	6	14 (1.4, 10)	
Cylinder head cover bolt	8	6	10 (1.0, 7)	
Boost joint	3	5	2.5 (0.25, 1.8)	
Cam sprocket bolt	4	7	20 (2.0, 14)	Note 2, 8
Valve adjuster screw lock nut	16	7	23 (2.3, 17)	Note 5
Cam chain tensioner bracket bolt	4	6	14 (1.4, 10)	
Rocker arm guide bolt	16	6	12 (1.2, 9)	Note 8
Clutch /Gearshift Linkage:				
Clutch center lock nut	1	25	128 (12.8, 93)	Note 5
Clutch spring bolt	5	6	12 (1.2, 9)	
Clutch slave cylinder bleeder screw	1	8	8 (0.8, 5.8)	
Shift fork shaft stopper plate bolt	2	6	12 (1.2, 9)	Note 2
Shift drum center bolt	1	8	23 (2.3, 17)	Note 2
Gearshift spindle return spring pin	1	8	22 (2.2, 16)	
Drive sprocket special bolt	1	10	54 (5.4, 39)	
Clutch slave cylinder oil bolt	1	10	35 (3.5, 25)	
Crankshaft/Transmission:				
Crankcase main journal bolt	12	9	37 (3.7, 27)	Note 8
Crankcase flange bolt	10	1	39 (3.9, 28)	
	8	17	24 (2.4, 17)	
Crankcase sealing bolt	20	1	30 (3.0, 22)	
	10	1	12 (1.2, 9)	
Connecting rod nut	8	8	35 (3.5, 25)	Note 5
Balancer shaft holder flange bolt	1	6	12 (1.2, 9)	
Charging System/Alternator:				
Alternator base flange bolt	3	8	25 (2.5, 18)	Note 1
Alternator assembly flange socket bolt	3	6	8 (0.8, 5.8)	Note 2
Alternator shaft flange nut	1	12	49 (4.9, 35)	Note 5
Ignition System:				
Pulse generator rotor flange bolt	1	10	49 (4.9, 35)	Note 2
Lights/Meters/Switches:				
Neutral switch	1	10	12 (1.2, 9)	
Neutral switch terminal nut	1	4	2.2 (0.22, 1.6)	
Other:				
General torque: SH flange bolt	-	6	10 (1.0, 7)	
SHF flange bolt	-	6	12 (1.2, 9)	

General Information

Frame	Item	Q'ty	Thread dia. (mm)	Torque N · m (kg-m, ft-lb)	Remarks
Frame/Body Panels/Exhaust System:					
	Exhaust pipe joint nut	8	7	17 (1.7, 12)	
	Muffler band bolt	4	8	22 (2.2, 16)	
	Muffler stay flange nut	3	8	22 (2.2, 16)	
	Step holder bolt	4	8	33 (3.3, 24)	
	Center stand bolt	1	10	50 (5.0, 36)	
	Side stand pivot bolt	1	10	8 (0.8, 5.8)	
	Side stand pivot lock nut	1	10	40 (4.0, 29)	Note 9
	Side stand bracket bolt	3	10	65 (6.5, 47)	
	Grub rail mounting bolt	4	8	35 (3.5, 2.5)	
Lubrication System:					
	Oil cooler pipe joint	4	6	9 (0.9, 6.5)	
Fuel System:					
	Fuel valve	1	6	10 (1.0, 7)	
	Fuel tank cap	7	4	3 (0.30, 2.2)	
	Fuel unit	4	6	10 (1.0, 7)	Note 9
	Fuel tank mounting bolt	2	6	10 (1.0, 7)	
	Fuel tank pivot nut	1	6	10 (1.0, 7)	Note 9
Cooling System:					
	Fan motor switch	1	16	18 (1.8, 13)	Note 1
	Water hose joint	1	6	9 (0.9, 6.5)	
	Water hose band			1.0-1.5 (0.10-0.15, 0.7-1.1)	
Engine Mounting:					
	Front engine hanger bolt/nut (Upper)	2	10	45 (4.5, 33)	
	Front engine hanger bolt/nut (Lower)	2	10	45 (4.5, 33)	
	Rear engine hanger bolt/nut (Upper)	1	12	55 (5.5, 40)	
	Rear engine hanger bolt/nut (Lower)	1	12	55 (5.5, 40)	
	Engine hanger adjusting bolt	1	20	8 (0.8, 5.8)	
	Engine hanger adjusting bolt lock nut	1	20	25 (2.5, 18)	
Clutch/Gearshift Linkage:					
	Clutch master cylinder holder bolt	2	6	12 (1.2, 9)	
	Clutch master cylinder cap screw	2	4	1.5 (0.15, 1.1)	
	Clutch lever pivot bolt	1	6	0.8 (0.08, 0.6)	
	Clutch lever pivot nut	1	6	5.9 (0.59, 4.3)	
	Clutch switch screw	1	4	1.2 (0.12, 0.8)	
	Gearshift pedal arm pinch bolt	1	6	16 (1.6, 12)	
	Gearshift pedal arm pivot bolt	1	8	27 (2.7, 20)	
Wheels:					
	Front axle bolt	1	14	59 (5.9, 43)	
	Front axle holder bolt	4	8	22 (2.2, 16)	
	Front brake disc bolt	12	8	42 (4.2, 30)	Note 10
	Rear axle nut	1	18	93 (9.3, 67)	
	Rear brake disc bolt	6	8	42 (4.2, 30)	Note 10
	Driven sprocket nut	5	12	110 (11.0, 78)	Note 9
Front Suspension:					
	Steering stem nut	1	24	103 (10.3, 96)	
	Top thread A	1	26	25 (2.5, 18)	See page 11-18
	Top thread B	1	26		
	Top bridge pinch bolt	2	8	23 (2.3, 17)	
	Bottom bridge pinch bolt	2	10	49 (4.9, 35)	
	Handlebar pivot pinch bolt	2	8	27 (2.7, 20)	
	Handlebar weight mounting screw	2	6	10 (1.0, 7)	

Frame (Cont'd)				
Item	Q'ty	Thread dia. (mm)	Torque N · m (kg-m, ft-lb)	Remarks
Fork:				
Fork oil drain bolt	2	6	8 (0.8, 5.8)	
Fork socket bolt	2	8	20 (2.0, 14)	
Fork cap bolt	2	37	23 (2.3, 17)	
Fork damper rod lock nut	2	10	20 (2.0, 14)	
Secondary master cylinder link rod bracket bolt	2	8	27 (2.7, 20)	Note 10
Rear Suspension:				
Swingarm pivot nut	1	14	108 (10.8, 78)	Note 9
Drive chain adjuster lock nut	2	8	22 (2.2, 16)	
Rear shock absorber mounting bolt/nut	2	10	42 (4.2, 30)	Note 9
Shock link bolt (Frame side)	1	10	59 (5.9, 43)	Note 9
Shock link bolt (Shock arm side)	1	10	42 (4.2, 30)	Note 9
Shock arm bolt (Swingarm side)	1	10	42 (4.2, 30)	
Brake System:				
Front brake master cylinder holder bolt	2	6	12 (1.2, 9)	
Front brake master cylinder cap screw	2	4	1.5 (0.15, 1.1)	
Front brake lever pivot bolt	1	6	0.8 (0.08, 0.6)	
Front brake lever pivot nut	1	6	5.9 (0.59, 4.3)	
Front brake lever adjuster socket bolt	1	5	3.9 (0.39, 2.9)	
Front brake switch screw	1	4	1.2 (0.12, 0.8)	
Right front brake caliper mounting bolt	2	8	27 (2.7, 20)	Note 10
Left front brake caliper lower mounting bolt	1	8	27 (2.7, 20)	Note 10
Caliper body B mounting bolt	9	8	32 (3.2, 23)	Note 10
Brake caliper main slide pin	3	12	27 (2.7, 20)	
Brake caliper slide pin	3	8	23 (2.3, 17)	
Pad pin	3	10	23 (2.3, 17)	
Caliper bleeder screw	6	8	5.4 (0.54, 4.0)	
Secondary master cylinder mounting bolt	2	6	12 (1.2, 9)	
Secondary master cylinder push rod joint nut	1	8	18 (1.8, 13)	
Secondary master cylinder orifice bolt	1	8	5.4 (0.54, 4.0)	
Brake link arm bolt/nut	2	8	27 (2.7, 20)	Note 10
Rear master cylinder mounting bolt	2	6	12 (1.2, 9)	
Rear master cylinder reservoir	1	6	12 (1.2, 9)	
Rear master cylinder push rod lock nut	1	8	18 (1.8, 13)	
Rear master cylinder reservoir joint screw	1	4	1.5 (0.15, 1.1)	
Brake hose oil bolt	12	10	35 (3.5, 25)	
Brake pipe bolt	8	10	17 (1.7, 12)	Note 5
Brake hose joint mounting bolt	5	6	12 (1.2, 9)	
Brake hose clamp mounting bolt	6	6	12 (1.2, 9)	
Other Fasteners:				
Ignition switch torx bolt	2	8	25 (2.5, 18)	Note 10

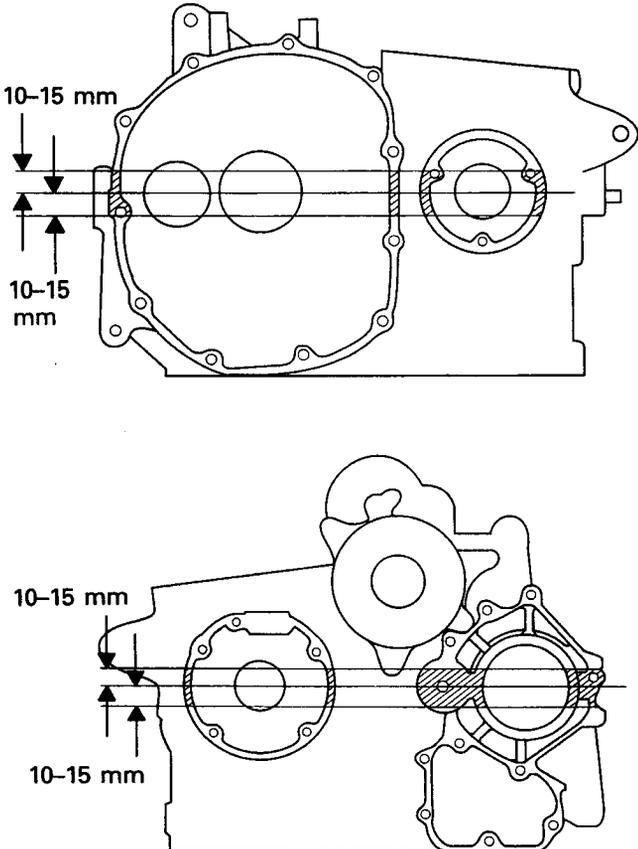
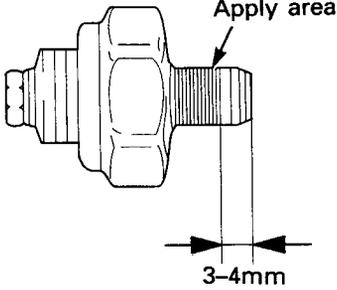
Tools

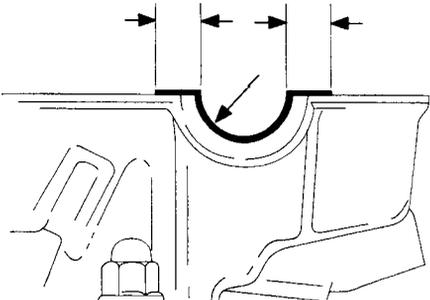
The marked "*" is newly designed tool.

Special Description	Tool Number	Applicability
Maintenance:		
Oil filter wrench	07HAA-PJ70100	
Lock wrench	07GMA-ML70120	
Drive chain cutter	07HMH-MR10102	
*- Link plate holder	07PMH-MZ20110	
Fuel System:		
Pilot screw wrench	07908-4220201	Except SW type
Pilot crew wrench	07KMA-MS60101	SW type
Cylinder Head/Valves:		
Valve guide reamer, 5.510 mm	07984-2000001	
Cylinder/Piston:		
*Piston ring compressor	07PME-MZ20100	Two required
Piston base	07958-250001	Two required
Front Wheel/Suspension/Steering:		
Oil seal driver	07947-KA50100	
Oil seal driver attachment	07947-KF00100	
Steering stem socket	07916-3710101	
Bearing race remover	07946-3710500	
Steering stem driver	07946-MB00000	
Ball race remover	07953-MJ10000	
- Remover attachment	07953-MJ10100	
- Remover handle	07953-MJ10200	
Rear Wheel/Suspension:		
Bearing remover set	07936-3710300	
- Remover handle	07936-3710100	
- Sliding weight	07741-0010201	
Driver shaft	07946-MJ00100	
Bearing remover attachment	07GMD-KT70200	
Driver attachment, 28 x 30 mm	07946-1870100	
Driver pin	07GMD-KT80100	
Brake System:		
Snap ring pliers	07914-3230001	
Electrical Equipment:		
Peak voltage adaptor	07HGJ-0020100	

Common Description	Tool Number	Applicability
Lubrication System:		
Oil pressure gauge	07506-3000000	
Oil pressure gauge attachment	07510-4220100	
Fuel System:		
Float level Gauge	07401-0010000	
Cylinder Head/Valves:		
Valve spring compressor	07757-0010000	
Valve guide remover, 5.5 mm	07742-0010100	
Valve guide driver	07743-0020000	
Valve seat cutter		
Seat cutter, 33 mm (45° IN)	07780-0010800	
Seat cutter, 27.5 mm (45° IN)	07780-0010200	
Flat cutter, 33 mm (32° IN)	07780-0012900	
28 mm (32° EX)	07780-0012100	
Interior cutter, 30 mm (60° IN/EX)	07780-0014000	
Cutter holder, 5.5 mm	07781-0010101	
Clutch/Gearshift Linkage:		
Clutch center holder	07724-0050001	
Extension bar	07716-0020500	
Crankshaft/Transmission:		
Universal bearing puller	07631-0010000	
Attachment, 37 x 40 mm	07746-0010200	
Inner driver C	07746-0030100	
Attachment, 25 mm	07746-0030200	
Pilot, 17 mm	07746-0040400	
Front Wheel/Suspension/Steering:		
Bearing remover head, 20 mm	07746-0050600	
Bearing remover shaft	07746-0050000	
Driver	07749-0010000	
Attachment 42 x 47 mm	07746-0010300	
Attachment, 52 x 55 mm	07746-0010400	
Pilot, 20 mm	07746-0040500	
Extension bar	07716-0020500	
Rear Wheel/Suspension:		
Bearing remover head, 20 mm	07746-0050600	
Bearing remover shaft	07746-0050000	
Driver	07749-0010000	
Attachment, 32 x 35 mm	07746-0010100	
Attachment, 37 x 40 mm	07746-0010200	
Attachment, 52 x 55 mm	07746-0010400	
Attachment, 62 x 68 mm	07746-0010500	
Pilot, 15 mm	07746-0040300	
Pilot, 17 mm	07746-0040400	
pilot, 20 mm	07746-0040500	
Pilot, 22 mm	07746-0041000	
Pilot, 25 mm	07746-0040600	
Driver attachment outer, 24 x 26 mm	07746-0010700	
Electrical Equipment:		
Torx driver bit (T40)	07703-0010100	or equivalent commercially available
Digital multimeter (KOWA)	07411-0020000	
Analogue tester	07308-00200001 (SANWA)	
	or TH-5H (KOWA)	

Lubrication & Seal Points

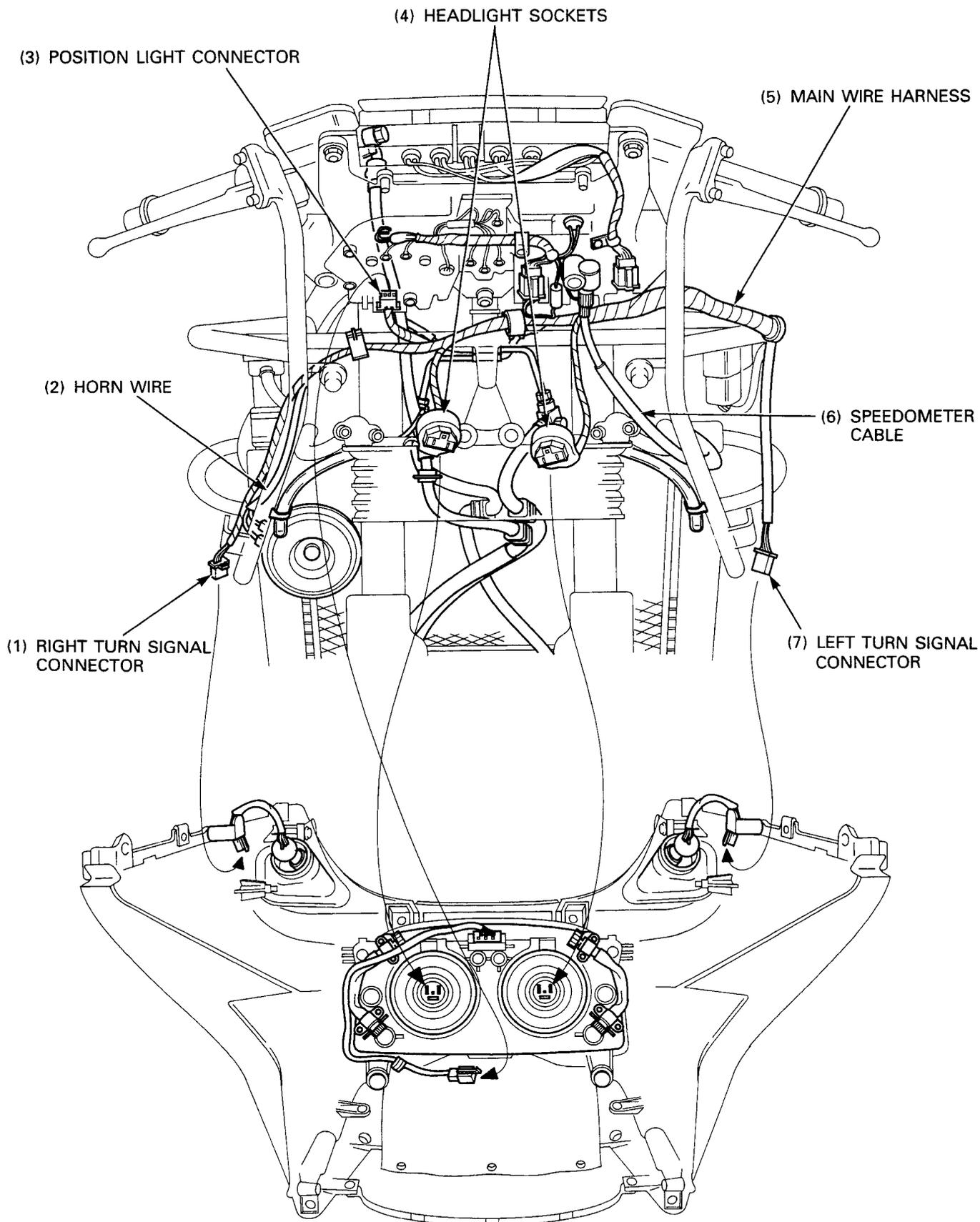
Engine	Location	Material	Remarks
<p>Crankcase mating surface</p>  <p>Oil pressure switch threads</p>  <p>Alternator base tightening bolt threads Drive chain guide plate bolt threads</p>	<p>Liquid sealant (Three-Bond 1207B or equivalent)</p>	<ul style="list-style-type: none"> • Wipe off the excess sealant • Do not apply sealant to near the bearing <p>Apply only to the area shown</p>	
<p>Main bearing surface Connecting rod bearing surface Crankshaft thrust surface Camshaft bearing surface and thrust surface Rocker arm slipper surface, guide area Rocker arm spherical bearing surface M3/4 gear, C5, C6 gear shift fork groove Valve stem (valve guide sliding surface) Primary driven gear surface Starter reduction shaft sliding surface</p>		<p>Molybdenum disulfide oil (A mixture of 1/2 engine oil and 1/2 molybdenum disulfide grease)</p>	

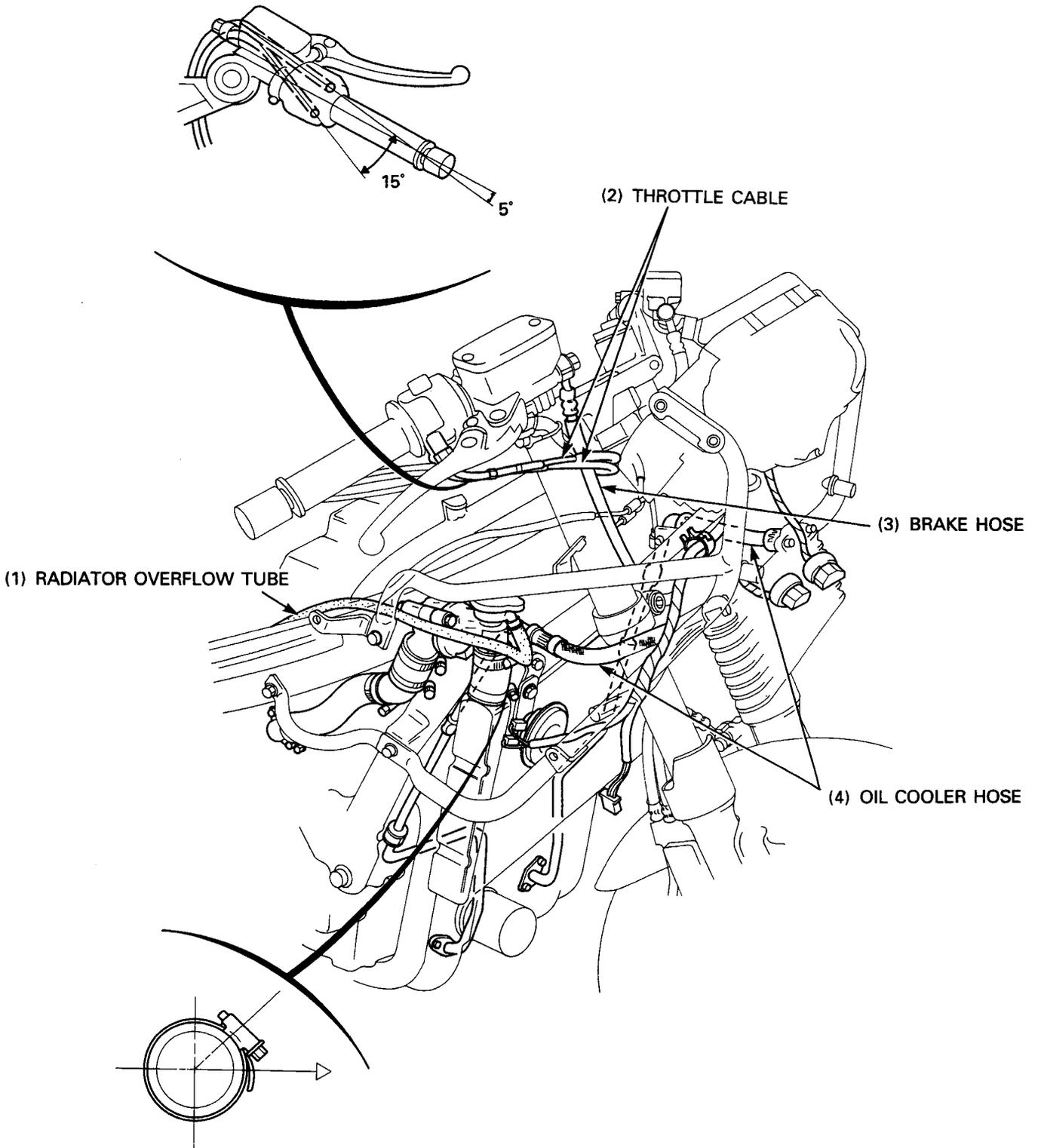
Engine (Cont'd)	Material	Remarks
<p>Ignition pulse generator grommet Cylinder head semi-circular cut-out</p> 	Sealant	
<p>Cylinder head cover breather plate bolt threads Cylinder head sealing bolt threads Cam sprocket bolt threads Shift drum bearing set plate bolt threads Lower crankcase sealing bolt threads (10 mm/20 mm) Ignition pulse generator rotor bolt threads Alternator chain guide bolt threads Alternator chain tensioner mounting bolt threads Oil pump chain guide bolt threads Oil pass plate bolt threads Oil pump driven sprocket bolt threads Oil pipe C mounting bolt threads Shift fork shaft stopper plate bolt threads Oil filter boss Shift fork shaft stopper plate bolt threads Drive chain guide plate bolt threads</p>	Locking agent	<p>Clean and apply to the threads</p> <p>6.5 ± 1 mm</p>
<p>Clutch disc surface Piston sliding surface and piston pin bore Piston rings and ring grooves Oil pass plate seal Cylinder head nut threads and seating surface Connecting rod nut threads and seating surface Main journal UBS bolt threads and seating surface Oil filter cartridge O-ring Clutch center lock nut threads and seating surface Valve adjusting screw threads Starter one-way clutch sliding lock surface Alternator damper spline area Alternator shaft nut threads and seating surface Clutch joint piece Each gear teeth and rotating surface Oil strainer packing O-rings Each bearings</p>	Engine oil	
<p>Oil seal lips Balancer damper rubber fitting area Timing hole cap threads</p>	Multi-purpose grease	
Clutch slave cylinder piston seal	DOT 4 brake fluid	

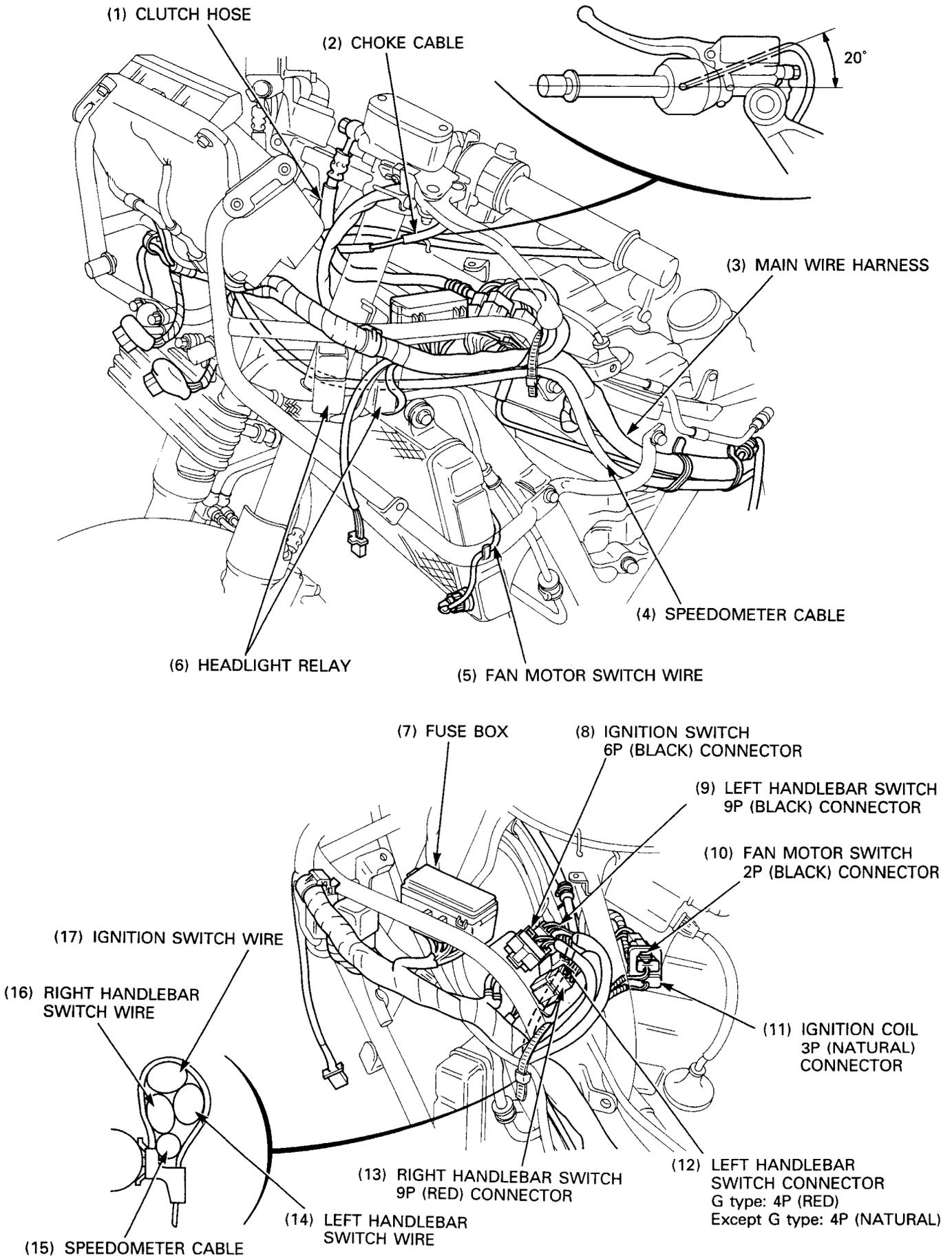
General Information

Frame	Location	Material	Remarks
	Steering stem bearing and dust seal lips Left second master cylinder link needle bearings and oil seal Wheel bearing dust seal lips Fork bottom case needle bearings Secondary master cylinder arm bearings Secondary master cylinder arm oil seals Swingarm pivot nut seating surface Shock arm/shock link bearing and oil seal Rear wheel and driven flange sliding area Swingarm pivot bearing/dust seal Wheel axle and swingarm outer surface Throttle cable end Center stand pivot surface Side stand pivot surface Brake pedal pivot Gearshift pedal pivot Seat lock striker Dust seal lips	Multi-purpose grease	Apply thin coat of grease
	Handlebar (throttle grip sliding surface) Swingarm pivot dust seal lips Swingarm pivot needle bearings Shock arm pivot needle bearings/dust seal lips Shock link pivot needle bearings/dust seal lips Shock absorber lower mount dust seal lips Shock absorber lower mount needle bearing Side stand pivot sliding surface	Molybdenum disulfide grease	
	Rear shock absorber upper metal bushing	Molybdenum paste	
	Steering stem top threads Brake flare pipe threads	Engine oil	
	Handle grip inside surface	Honda Bond A	
	Brake lever pivot and piston contact area Brake caliper slide pin and boot inside Caliper dust seal Rear master cylinder push rod tips/boot inside Secondary master cylinder push rod tips/boot inside	Silicone grease	
	Brake caliper slide pin threads Fork socket bolt threads	Locking agent	
	Fork cap O-ring Fork oil seal lips	Fork fluid	
	Brake master cylinder piston and cup Clutch master cylinder piston and cup Brake caliper piston and seal	DOT 4 breake fluid	
	Fan motor switch threads	Sealant	

Cable & Harness Routing



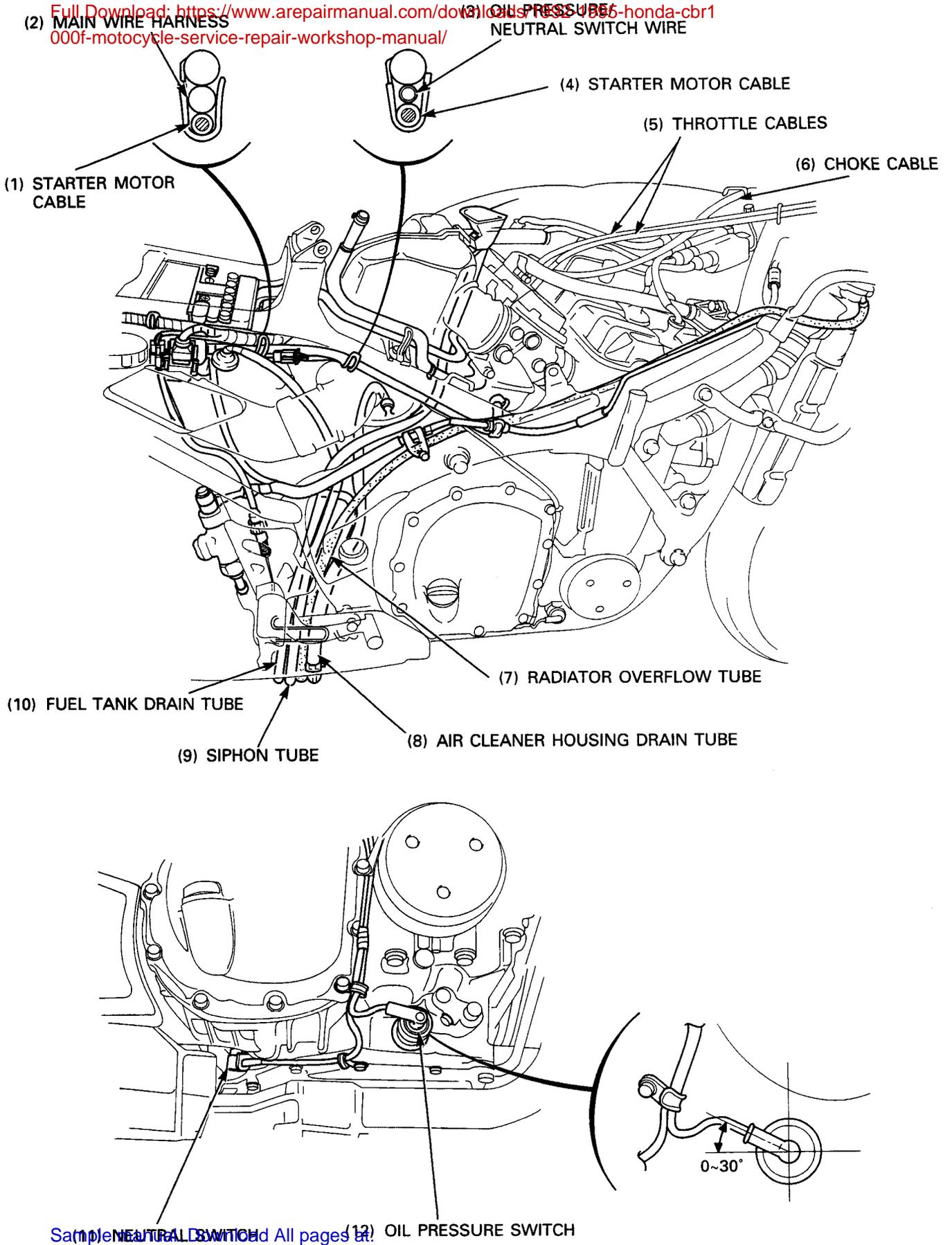




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