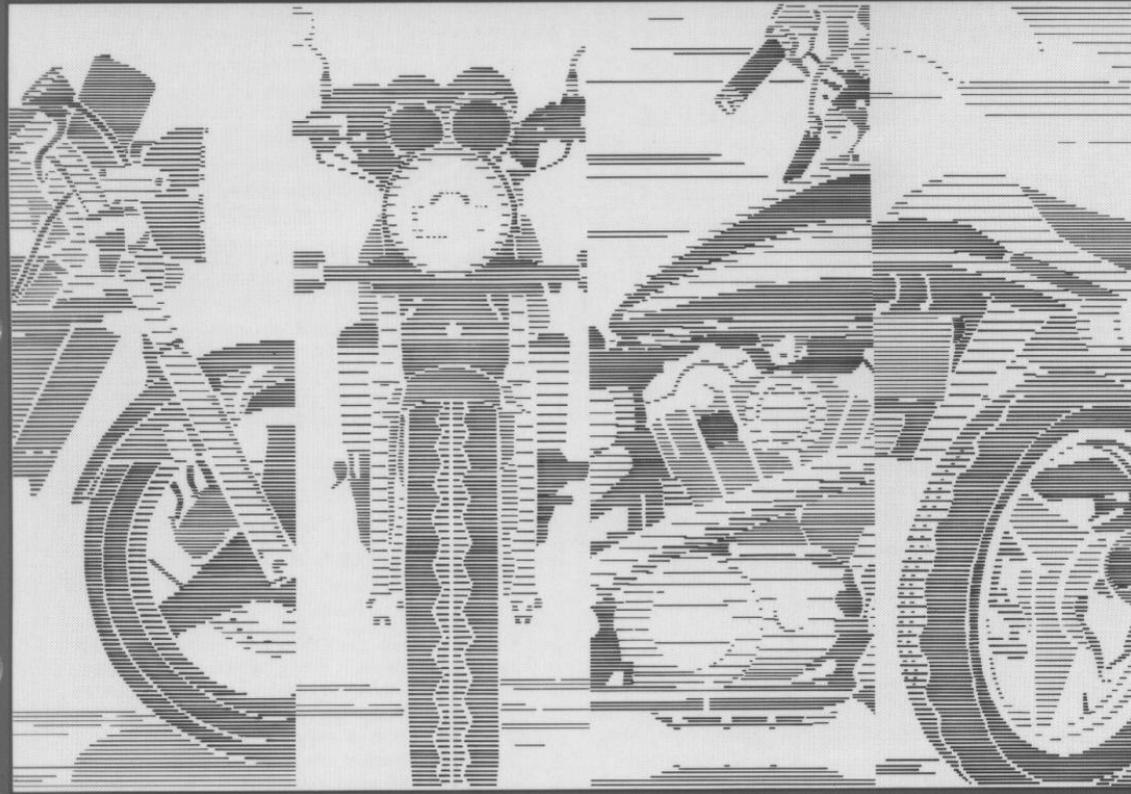


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HONDA

SERVICE MANUAL



91-94
CBR600F2

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Introduction

Contents

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This service manual describes the service procedures for the CBR600F2.

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 this motorcycle.

CODE	AREA (TYPE)	CODE	AREA (TYPE)
A	49 state	CM	Canada
AC	California		

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 the California Air Resources Board.

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

Section 1 and 3 apply to the whole motorcycle, section 2 illustrates procedures for removal/installation of components that may be required to perform service and describes parts of the motorcycle, grouped according locations.

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

Most sections describe the service procedures through system illustrations. Refer to the next page for details on how to use this manual.

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

All information, illustrations, directions and specifications included in this publication are based on the latest product information available at the time of approval for printing. HONDA MOTOR CO., LTD. reserves the right to make changes at any time without incurring any obligation whatever. No part of this publication may be reproduced without written permission. This manual is written for persons who have acquired basic knowledge of maintenance on HONDA motorcycles, motor scooters or ATVs.

HONDA MOTOR CO., LTD.
 SERVICE PUBLICATION OFFICE

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Important Safety Notice

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

CAUTION: Indicates a possibility of 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 methods or tools selected.

Symbols

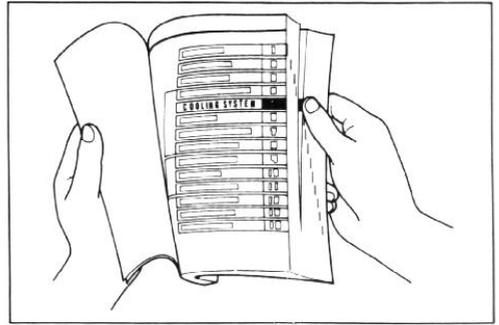
The symbols used throughout this manual show specific service procedures. If supplementary information is required pertaining to these symbols, it would be explained specifically in the text without the use of the symbols.

	Replace the part(s) with new one(s) before assembly.
	Use special tool.
	Use optional tool. Use the same procedure you use to order parts.
 10 (1.0, 7.2)	Torque specification 10 N·m (1.0 kg-m, 7.2 ft-lb).
	Use recommended engine oil, unless otherwise specified.
	Use molybdenum oil solution (mixture of 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® 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
	Use silicone grease.
	Apply a locking agent. Use a middle strength locking agent unless otherwise specified.
	Apply sealant.
	Use brake fluid DOT 4. Use the recommended brake fluid, unless otherwise specified.
	Use Fork or Suspension Fluid.

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.



Understanding The Instructions

- 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 callouts 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 mark.
- Also in the illustration is a chart that lists information such as the order in which the part 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.

Symbols	System illustration	Detailed description of the procedure
<p>CYLINDER HEAD:CYLINDER/PISTON</p> <p>CYLINDER HEAD REMOVAL/INSTALLATION</p> <p>Step sequence (numerals or letters)</p> <p>REQUISITE SERVICE</p> <p>Engine removal/installation: page 7-2</p> <p>PROCEDURE</p> <p>REMOVAL ORDER</p> <ol style="list-style-type: none"> Cylinder head side nut Cylinder head mounting bolt Cylinder head assembly Cable Clutch pin Camshaft side gear case nut Camshaft side gear case bearing cap Camshaft side gear case Camshaft Camshaft thrust <p>REMARKS</p> <p>Installation is in the reverse order of removal/installation (page 8-5).</p> <p>Installation with the UP mark facing up and rearward.</p> <p>Installation: page 8-5.</p> <p>All installation/adjustment/inspections done with the engine off with the UP mark facing upward (indicator side).</p>	<p>CAMSHAFT SIDE GEAR CASE INSTALLATION</p> <p>Install the camshaft side gear case bearing pin (pin).</p> <p>NOTE</p> <p>Without the bearing pin (pin) installed, the camshaft side gear case will not be able to be installed onto the camshaft timing gear.</p> <p>Install the camshaft side gear case onto the camshaft timing gear. Make sure the side gear case is seated on top of the camshaft timing gear.</p> <p>Install a new sealing washer and mounting bolts. Tighten bolts in a gradual manner.</p> <p>CYLINDER HEAD NUT/BOLT INSTALLATION</p> <p>Install the cylinder head assembly nuts in order. Do not tighten them yet.</p> <p>TORQUE</p> <p>Special nut: 30 Nm (22.0 lbf-ft) / 22.0 Nm (16.3 lbf-ft)</p> <p>Mounting bolt: 12 Nm (9.0 lbf-ft) / 9.0 Nm (6.6 lbf-ft)</p>	<p>CYLINDER HEAD:CYLINDER/PISTON</p> <p>1-10 CORRECT</p> <p>A INCORRECT</p> <p>1-10 CORRECT</p> <p>1 SPECIAL NUT</p> <p>2 BOLT</p> <p>3 BOLT</p> <p>4 SPECIAL NUT</p> <p>5 BOLT</p> <p>6 BOLT</p> <p>7 BOLT</p> <p>8 BOLT</p> <p>9 BOLT</p> <p>10 SPECIAL NUT</p>
Part name	Number of parts	Extra notes or precautions related to the service procedure
8-4		8-5

2. Frame/Body Panels/Exhaust System

Service Information	2-1	Front Cowl Disassembly/Assembly	2-6
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Side Fairing Removal/Installation	2-3	Exhaust System Removal/Installation	2-10
Front Cowl Removal/Installation	2-4	Fuel Tank Removal/Installation	2-11

Service Information

⚠ WARNING

- Gasoline is extremely flammable and explosive under certain conditions.
- Serious burns may result if the exhaust system is not allowed to cool before components are removed or serviced.

- Work in a well ventilated area. Smoking or allowing flames or sparks in the working area or where gasoline is stored can cause a fire or explosion.
- This section covers removal and installation of the frame body panels, fuel tank and exhaust system.
- Frame body panel installation is in the reverse order of removal, unless noted otherwise.
- When removing the cover, be careful not to damage any tab or groove of a cover.
- Always replace the exhaust pipe gaskets when removing the exhaust pipe from the engine.
- When installing the exhaust pipe, install all the fasteners loosely. Always tighten the exhaust clamps first, then tighten the mounting fasteners. If you tighten the mounting fasteners first, the exhaust pipe may not seat properly.
- Always inspect the exhaust system for leaks after installation.

Troubleshooting

Excessive Exhaust Noise

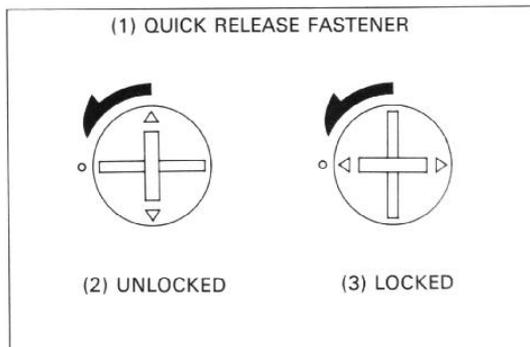
- Broken exhaust system
- Exhaust gas leak

Poor Performance

- Deformed exhaust system
- Exhaust gas leak
- Clogged muffler

Side Cover Removal/Installation

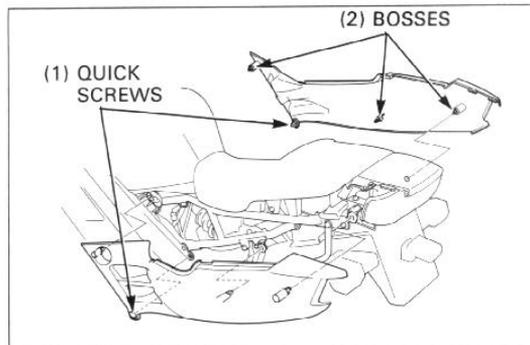
Unlock the quick release fasteners by aligning the long slot with the punch mark.



Remove the side cover by releasing the bosses on the cover from the grommets.

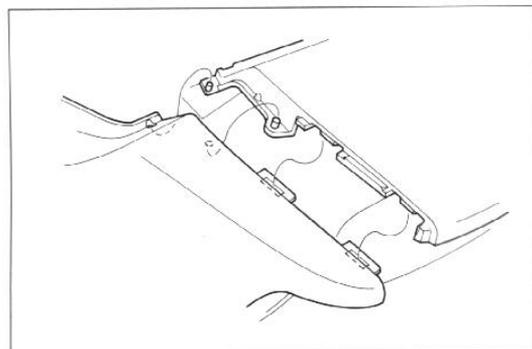
CAUTION

- Be careful not to break the pins, tabs and slots in the side cover and tail cowl when removing the side cover.



Install the side cover aligning its bosses with the grommets and engage the tabs with the slots, and pins with the holes securely as shown.

Lock the clip by aligning the “△” mark with the punch mark. Do the same on the other side.

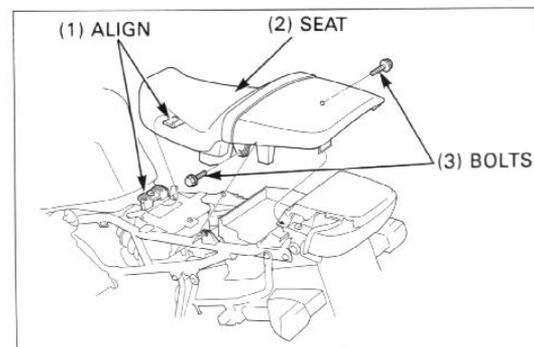


Seat Removal/Installation

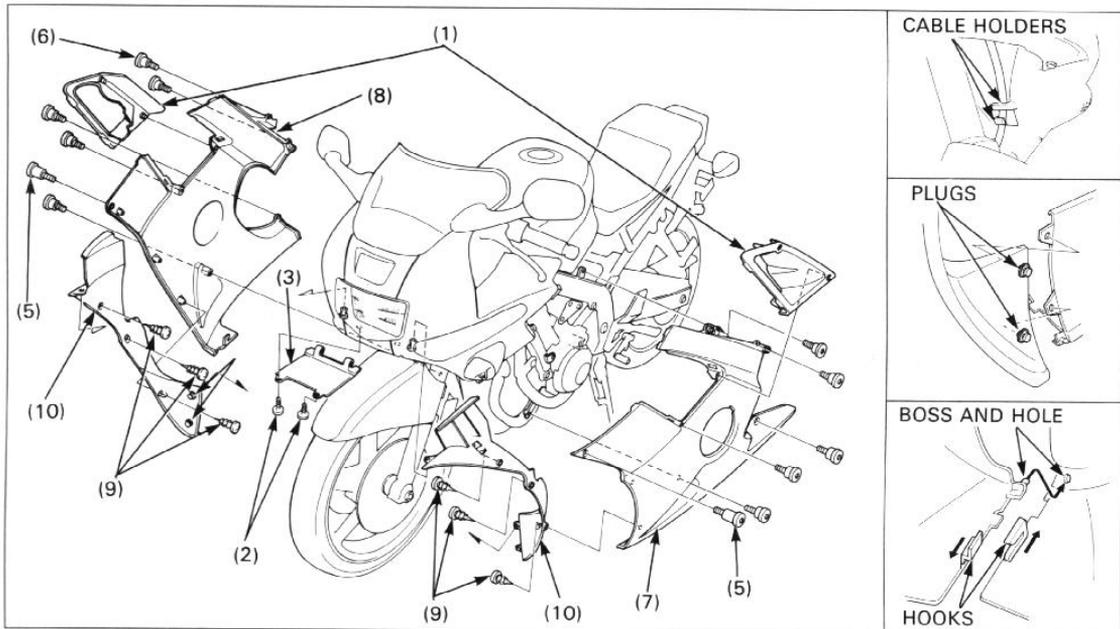
Remove the side covers.

Remove the seat by removing the bolts and sliding the seat back.

Install the seat in the reverse order of removal, then install the side covers.



Side Fairing Removal/Installation

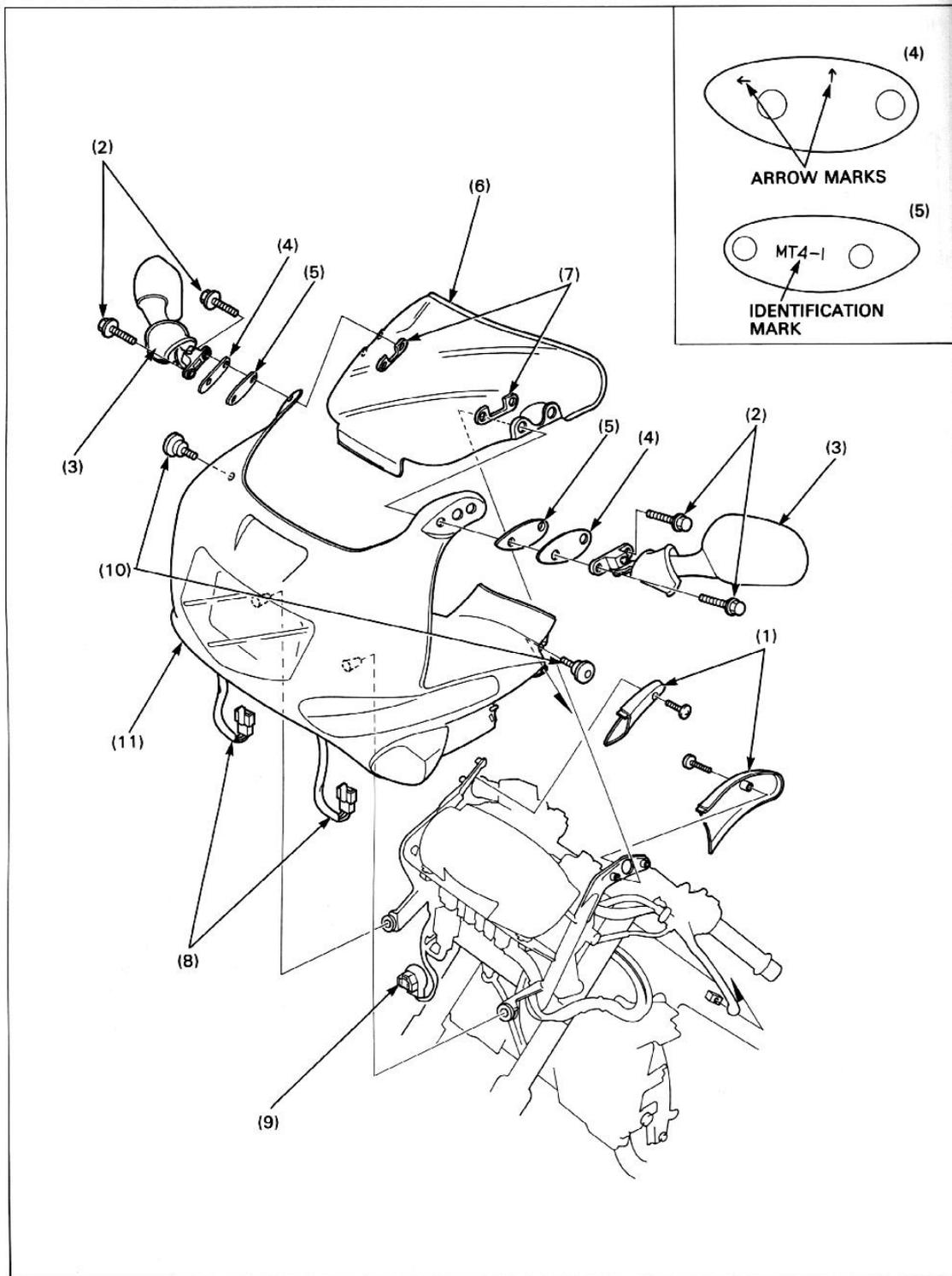


Requisite Service

- Side cover removal/installation (page 2-2)

Procedure	Q'ty	Remarks
Removal Order		Installation is in the reverse order of removal.
(1) Maintenance cover	2	
(2) Tapping screw	2	
(3) Headlight lower cover	1	Release the claws from the front cowl stay. Be careful not to break off the claws.
(4) Retaining plug	2	
(5) Hex bolt (long)	2	
(6) Hex bolt (short)	10	
(7) Left side fairing	1	NOTE
		<ul style="list-style-type: none"> • Separate the left side fairing from the right one by disengaging the hooks on the bottom of the fairings. • When assembling the side fairings, align the boss on the left side fairing with the hole in the right one. • Left and right side fairings can be removed without removing the side fairing inner covers.
(8) Right side fairing	1	Replace the speedometer cable from the cable holder on the inner cover.
(9) Self-tapping screw	6	
(10) Side fairing inner cover (right/left)	1/1	

Front Cowl Removal/Installation

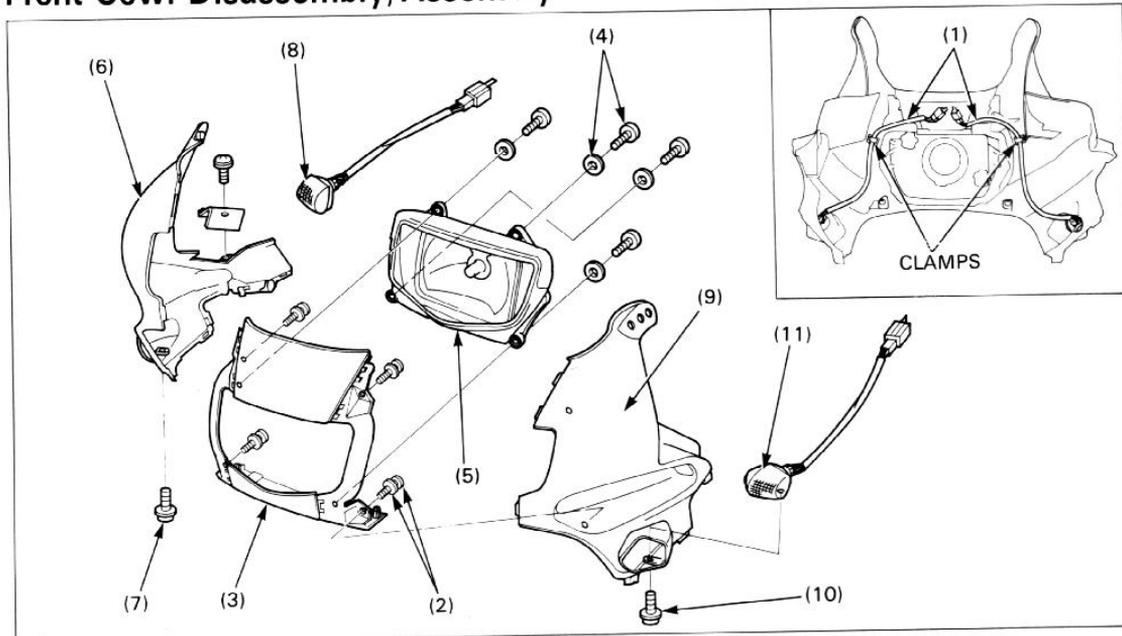


Requisite Service

- Side fairing removal/installation (page 2-3)

Procedure		Q'ty	Remarks
Removal Order			
(1)	Rear view mirror inner cover	1/1	
(2)	Bolt	4	
(3)	Rear view mirror (right/left)	1/1	
(4)	Seat rubber plate	2	
(5)	Seat rubber	2	
(6)	Wind screen	1	
(7)	Seat rubber	2	
(8)	Front turn signal connector (3P mini)	2	
(9)	Headlight socket	1	
(10)	Hex bolt	2	
(11)	Front cowl	1	
Installation Order			
(11)	Front cowl	1	Align the bosses on the headlight case with the grommets.
(10)	Hex bolt	2	
(9)	Headlight socket	1	
(8)	Front turn signal connector (3P mini)	2	
(7)	Seat rubber	2	
(6)	Wind screen	1	Instal the right seat rubber with the mark "MT4-R" facing in. Install the left seat rubber with the mark "MT4-L" facing in. Install the right plate with the marked side in and each arrow mark pointing forward and up. Install the left plate with the marked side out and each arrow mark pointing forward and up.
(5)	Seat rubber	2	
(4)	Seat rubber plate	2	
(3)	Rear view mirror (right/left)	1/1	
(2)	Bolt	4	
(1)	Rear view mirror inner cover	1/1	

Front Cowl Disassembly/Assembly



Requisite Service

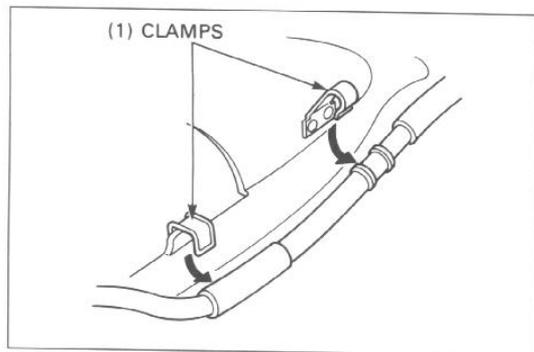
- Front cowl removal/installation (page 2-4)

Procedure		Q'ty	Remarks
(1)	Disassembly Order Turn signal wire	2	Assembly is in the reverse order of disassembly. Release the wires from the clamps. After assembling the front cowl, route and clamp the wires as shown.
(2)	Screw/washer	4/4	
(3)	Center front cowl	1	
(4)	-screw/washer	4/4	
(5)	-headlight assembly	1	
(6)	Right front cowl	1	
(7)	-screw	1	
(8)	-right turn signal	1	
(9)	Left front cowl	1	
(10)	-screw	1	
(11)	-left turn signal	1	

Rear Fender B Removal/Installation

Remove the screws and the drive chain cover.

Release the brake hose from the clamps on the rear fender B.

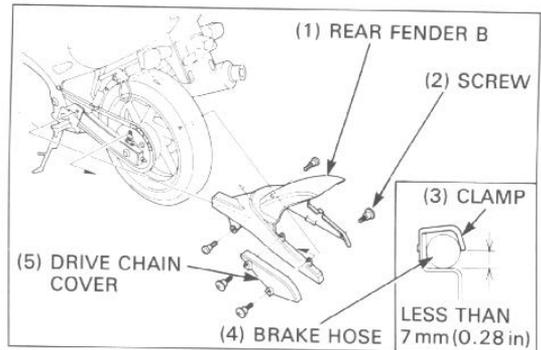


Remove the screws and remove the rear fender B.

Install the removed parts in the reverse order of removal.

NOTE

- After clamping the brake hose with rear clamp on the rear fender B, make sure the clamp opening is less than 7mm (0.28in).

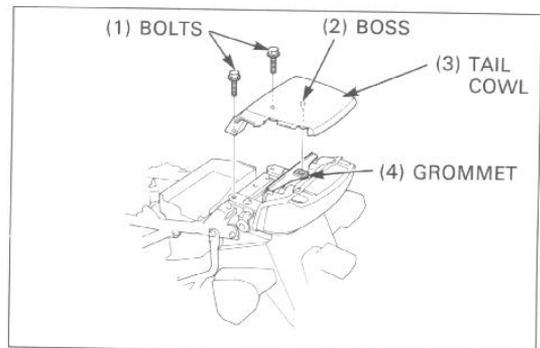


Tail Cowl Removal/Installation

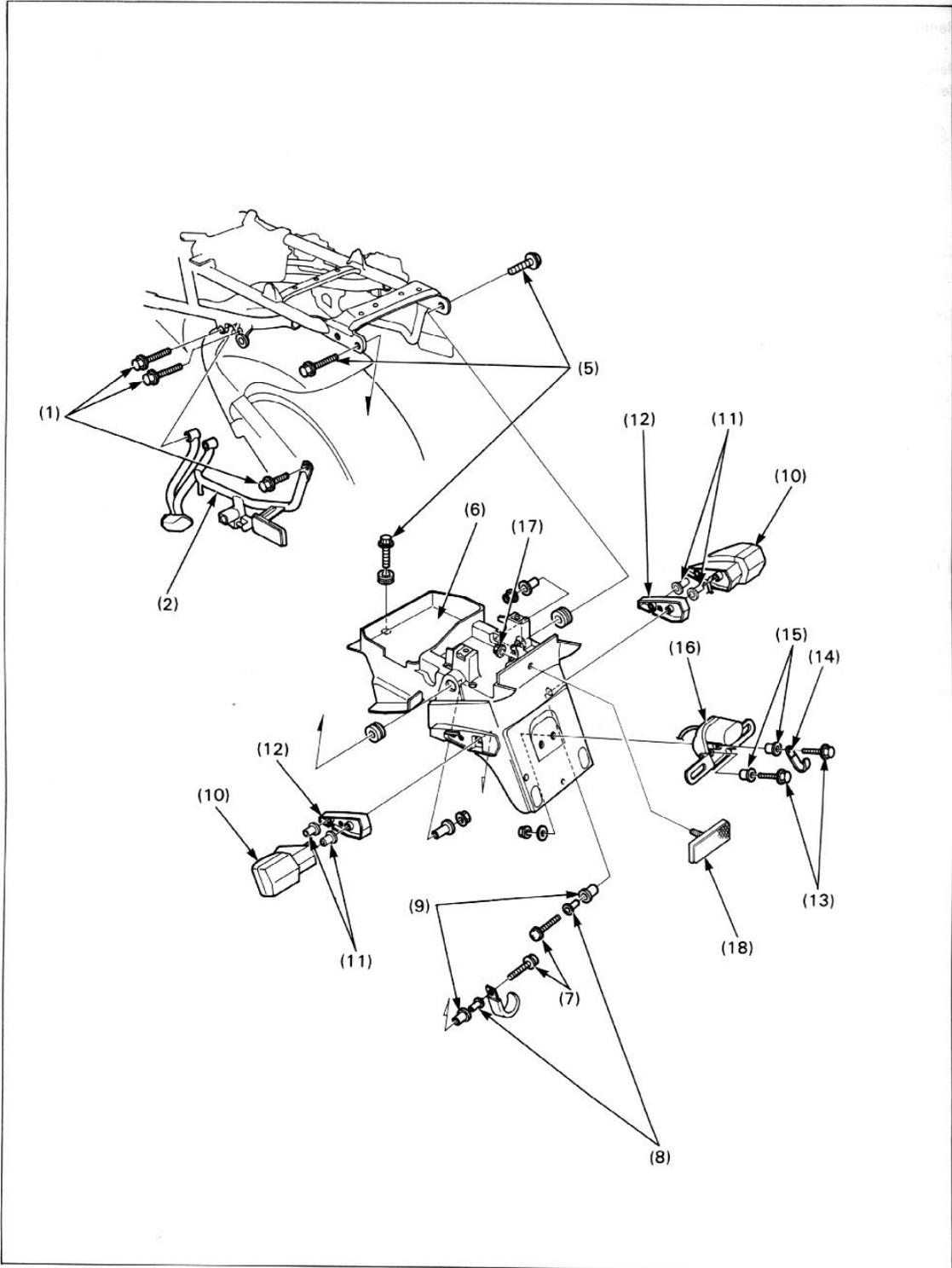
Remove the seat (page 2-2).

Remove the bolts and the tail cowl.

Install the tail cowl in the reverse order of removal.



Rear Fender A Removal/Installation.



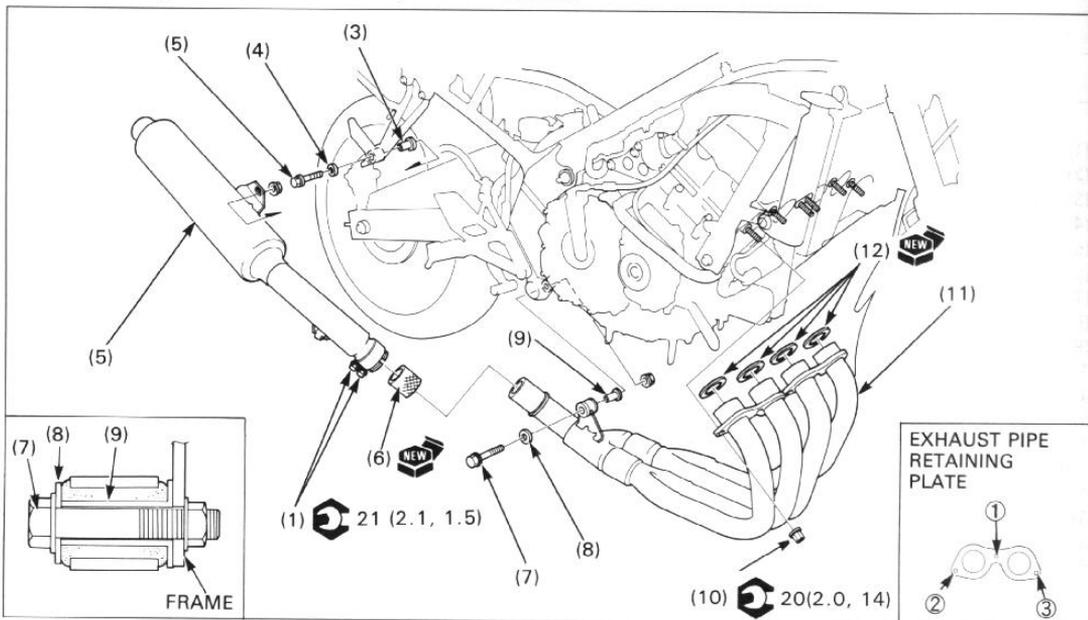
Requisite Service

• Seat removal/installation (page 2-2)

• Tail cowl removal/installation (page 2-7)

Procedure	Q'ty	Remarks
Removal Order		Installation is in the reverse order of removal.
(1) Bolt	3	
(2) Left rear footpeg stay	1	
(3) Turn signal wire connector	2	
(4) License plate light wire connector	1	
(5) Bolt	3	
(6) Rear fender B	1	
(7) -screw	4	
(8) -flange collar	4	
(9) -seat rubber	4	
(10) -rear turn signal (right/left)	1/1	
(11) -flange collar	4	
(12) -turn signal base (right/left)	1/1	
(13) -bolt	2	
(14) -clamp	1	
(15) -flange collar	2	
(16) -license plate light	1	
(17) -nut	1	
(18) -reflector	1	

Exhaust System Removal/Installation



▲ WARNING

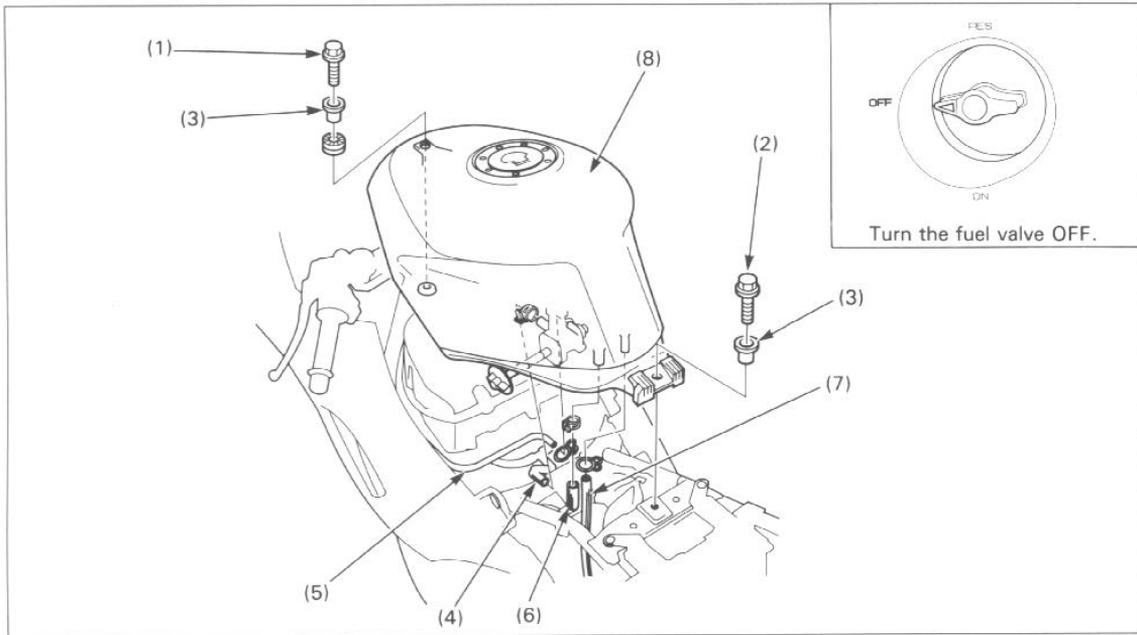
- Do not service the exhaust system while it is hot.

Requisite Service

- Side fairing removal/installation (page 2-3)

Procedure	Q'ty	Remarks
Removal Order (1) Muffler band bolt (2) Muffler mounting bolt (3) Flange collar (4) Washer (5) Muffler (6) Muffler gasket (7) Exhaust pipe mounting bolt (8) Washer (9) Flange collar	2 1 1 1 1 1 1 1 1	Installation is in the reverse order of removal. Only loosen.
(10) Exhaust pipe joint nuts	6	NOTE • Install the flange collar with the flange side facing the frame NOTE • Tighten the joint nuts in the order as shown.
(11) Exhaust pipe	1	
(12) Exhaust pipe gasket	4	

Fuel Tank Removal/Installation



⚠ WARNING

- Gasoline is extremely flammable and is explosive under certain conditions.

Requisite Service

- Seat removal/installation (page 2-2)

Procedure	Q'ty	Remarks
Removal Order		Installation is in the reverse order of removal.
(1) Fuel tank mounting bolt (6mm)	1	Before disconnecting, turn the fuel valve OFF.
(2) Fuel tank mounting bolt (8mm)	1	
(3) Flange collar	2	
(4) Fuel tube	1	
(5) Auto fuel valve vacuum tube	1	
(6) Fuel tank drain tube	1	
(7) Fuel tank vent tube	1	
(8) Fuel tank	1	

3. Maintenance

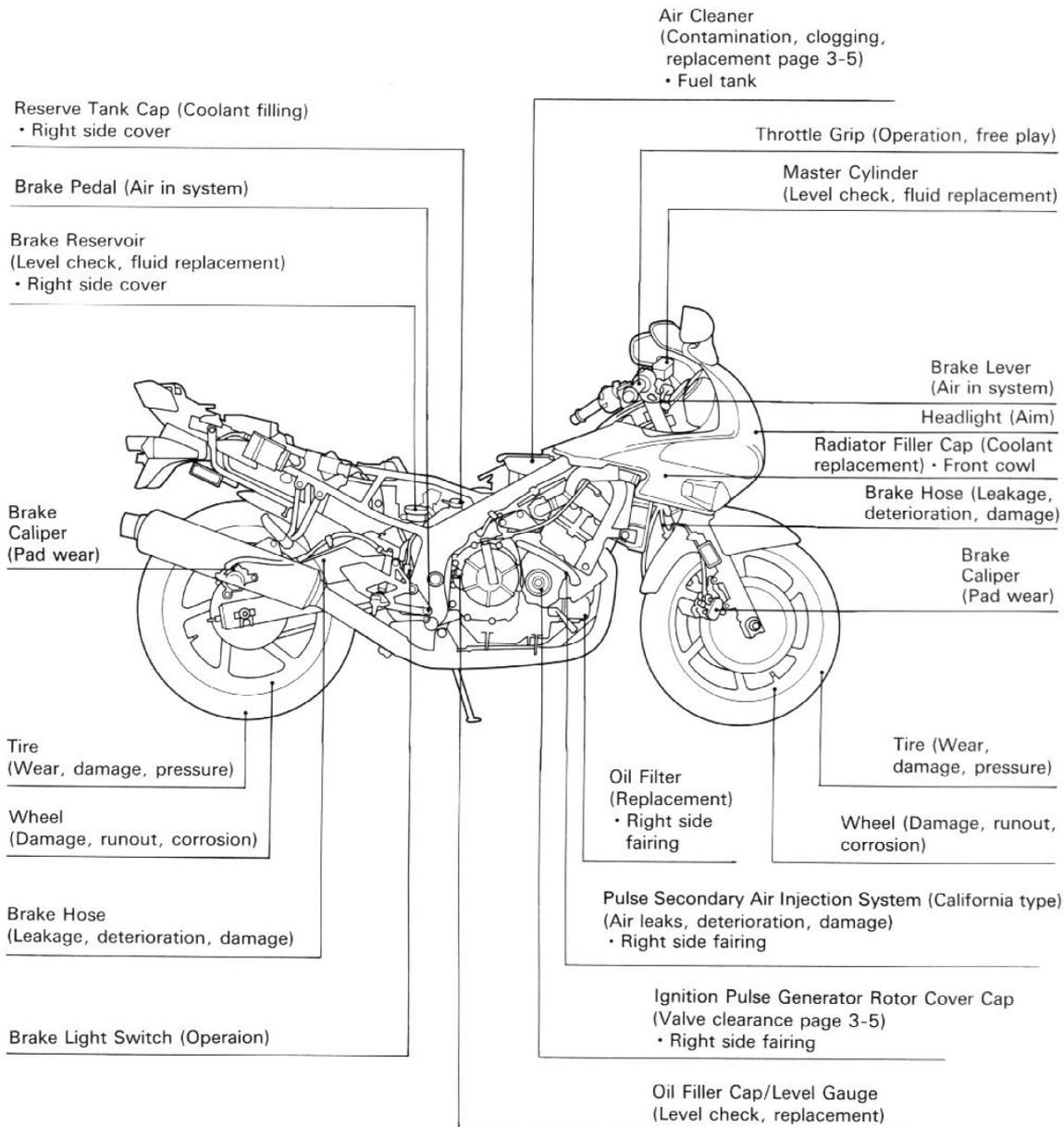
Service Information	3-1	Spark Plug	3-5
Service Access Guide	3-2	Valve Clearance	3-5
Maintenance Schedule	3-4	Carburetor Synchronization	3-9
Air Cleaner	3-5	Side Stand	3-10

Service Information

- Refer to Common Service Manual for service procedures on items not included in this manual.
- Refer to the specifications (Section 1) for maintenance service data.

Service Access Guide

- The following shows the locations of the parts that must be removed for the maintenance items listed below. Refer to the Common Service Manual for items not included in this manual.
- Refer to section 2 (Frame/Body Panels/Exhaust System) for the parts that must be removed for service.
For example: AIR CLEANER (Contamination, clogging, replacement): Parts
 - Fuel tank — The parts must be removed for service.



Synchronization Adjusting Screw
 (Carburetor synchronization page 3-9)
 • Fuel tank

Throttle Stop Screw (Idle speed)
 • Left side cover

Carburetor Choke (Operation)

Suspension
 (Loose, wear, damage)
 • Rear fender B

Clutch Lever (Free play)

Steering Head
 Bearings (Damage)

Valve Clearance
 (page 3-5)

Suspension
 (Loose, wear, damage)

Radiator Hose
 (Leakage, deterioration, damage)
 • Side fairings

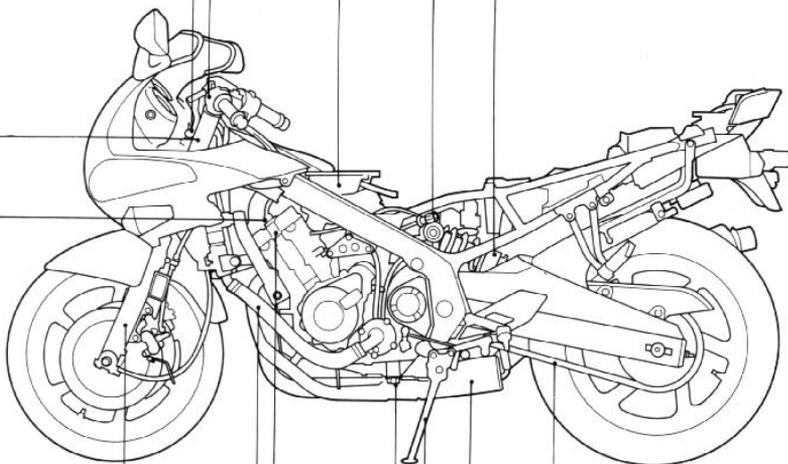
Spark Plug (Wear, damage,
 coloration)
 Maintenance Covers

Drive Chain
 (Free play, lubrication,
 replacement)

Engine Oil Drain Bolt
 (Oil replacement)
 • Left side fairing

Evaporative Emission
 Canister (California type only)
 (Deformation, Hose Connection)
 • Side fairings

Side Stand (Operation)



Maintenance Schedule

Perform the PRE-RIDE INSPECTION in the Owner's Manual at each scheduled maintenance period.

I: Inspect and Clean, Adjust, Lubricate, or Replace if necessary.

R: Replace, C: Clean, L: Lubricate, A: Adjust

The following items require some mechanical knowledge. Certain items (particularly those marked * and **) may require more technical information and special tools. Consult your authorized Honda dealer.

Item	Frequency	Note ↓	Odometer Reading (Note 1)								Refer to page
			x 1,000 mi	0.6	4	8	12	16	20	24	
			x 1,000 km	1	6	12	18	24	30	36	
EMISSION RELATED ITEMS	* Fuel Line				I		I		I	Note 5	
	* Throttle Operation				I		I		I	Note 5	
	* Carburetor Choke				I		I		I	Note 5	
	Air Cleaner	(Note 2)				R			R	3-5	
	Spark Plug			I	R	I	R	I	R	3-5	
	* Valve Clearance			I			I			3-5	
	Engine Oil			R		R		R		Note 6	
	Engine Oil Filter			R		R		R		Note 5	
	* Carburetor Synchronization				I		I		I	3-9	
	* Carburetor Idle Speed			I	I	I	I	I	I	Note 6	
	Radiator Coolant	(Note 3)				I		I		R	Note 5
	* Cooling System					I		I		I	Note 5
	* Secondary Air Supply System	(Note 4)				I		I		I	Note 5
	* Evaporative Emission Control System	(Note 4)					I			I	Note 5
NON EMISSION RELATED ITEMS	Drive Chain		Every 600 mi (1,000 km) I, L								Note 5
	Brake Fluid	(Note 3)			I	I	R	I	I	R	Note 5
	Brake Pad Wear				I	I	I	I	I	I	Note 5
	Brake System			I		I		I		I	Note 5
	* Brake Light Switch					I		I		I	Note 5
	* Headlight Aim					I		I		I	Note 5
	Clutch System			I	I	I	I	I	I	I	Note 5
	Side Stand					I		I		I	3-10
	* Suspension					I		I		I	Note 5
	* Nuts, Bolts, Fasteners			I		I		I		I	Note 5
	* * Wheels/Tires					I		I		I	Note 5
* * Steering Head Bearings			I		I		I		I	Note 5	

* Should be serviced by an authorized Honda dealer, unless the owner has the proper tools and service data and is mechanically qualified.

** In the interest of the safety, we recommend these items be serviced only by an authorized Honda dealer.

Notes: 1. At higher odometer readings, repeat at the frequency interval established here.

2. Service more frequently when riding in unusually wet or dusty areas.

3. Replace every 2 years, or at indicated odometer interval, whichever comes first. Replacement requires mechanical skill.

4. California type only.

5. Refer to Common Service Manual.

6. Use the specification in section one and refer to the Common Service Manual.

Air Cleaner

Remove the fuel tank (page 2-11).

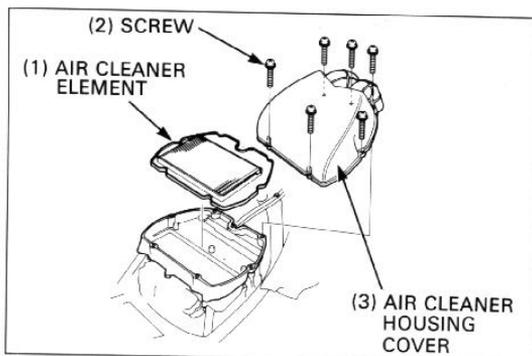
Remove the seven screws, air cleaner housing cover and air cleaner element.

Discard the air cleaner element in accordance with the maintenance schedule.

Also, replace the element any time it is excessively dirty or damaged.

Install the removed parts in the reverse order of removal.

Install the fuel tank (page 2-11).



Spark Plug

WARNING

- Do not touch the exhaust system while it is hot.

NOTE

- For detailed instructions, refer to section 2 of the Common Service Manual.
- The No. 1 spark plug can be serviced from the right side, and the No. 2, No. 3 and No. 4 spark plugs can be serviced from the left side.

Remove the maintenance lids by turning the quick screws counterclockwise.

A spark plug wrench is included in the tool kit.

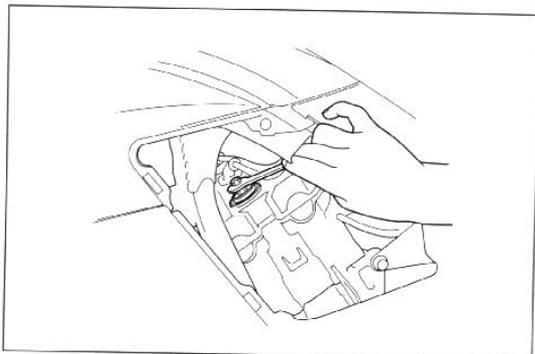
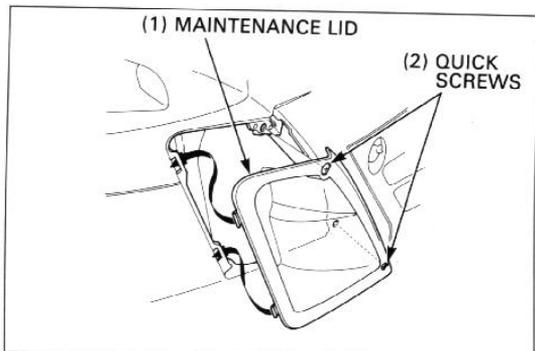
Disconnect the spark plug caps and clean away dirt from around the spark plug bases.

Remove the spark plugs using the wrench in the tool kit.

Install the spark plug in the reverse order of removal.

Tighten the spark plug 1/2 turn with the spark plug wrench to compress the sealing washer. If the old plug is retightened, tighten it 1/8-1/4 turn to compress the sealing washer.

Install the maintenance lids and secure them by turning the quick screws clockwise.



Valve Clearance

Inspection

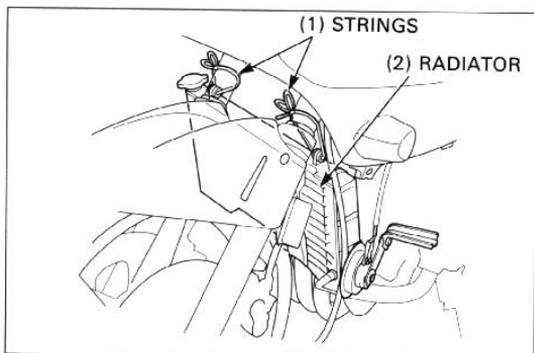
NOTE

- Adjust the valve clearance while the engine is cold (below 35° C/95° F).

Remove the air cleaner housing base (page 6-3).

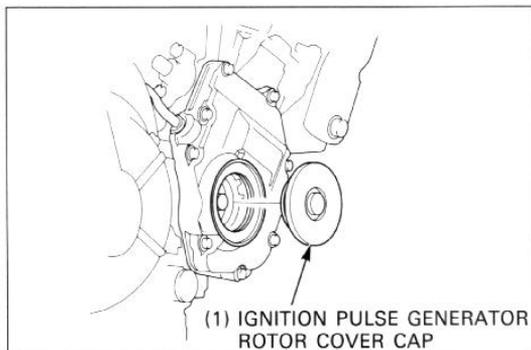
Remove the radiator mounting bolts and release the grommet on the radiator top from the boss on the frame.

Move the radiator forward and secure it to the fork tubes with pieces of string as shown.



Remove the ignition pulse generator rotor cover cap.

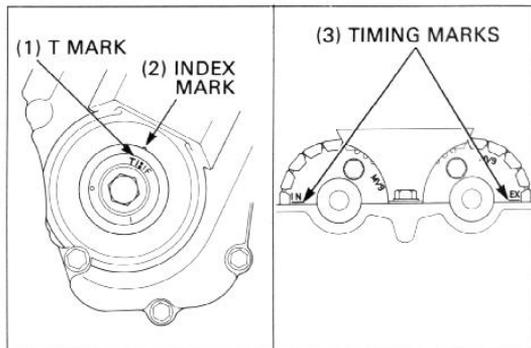
Remove the cylinder head cover (page 8-2).



Align the T mark (notch mark) with the index mark on the ignition pulse generator rotor cover by turning the crankshaft clockwise.

Make sure that the timing marks ("IN" and "EX") on the camshaft gears are aligned with the cylinder head upper surface and facing opposite each other as shown.

If the timing marks ("IN" and "EX") on the camshaft gears face each other, turn the crankshaft clockwise one full turn (360°) and realign the T mark (notch mark) with the index mark on the ignition pulse generator rotor cover.



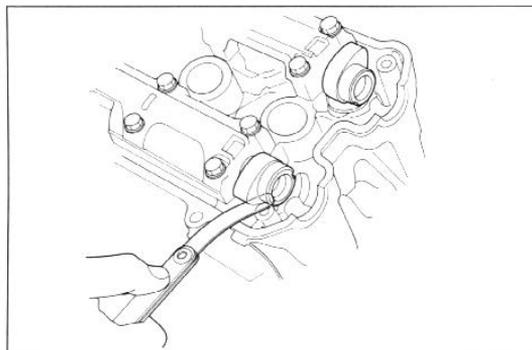
Insert a feeler gauge between the cam lobe and valve lifter at the No. 1 cylinder.

Measure and record the valve clearance.

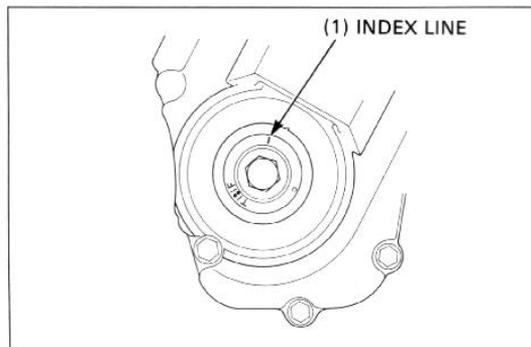
Valve Clearances :

IN : 0.13-0.19 mm (0.005-0.007 in)

EX : 0.19-0.25 mm (0.007-0.010 in)

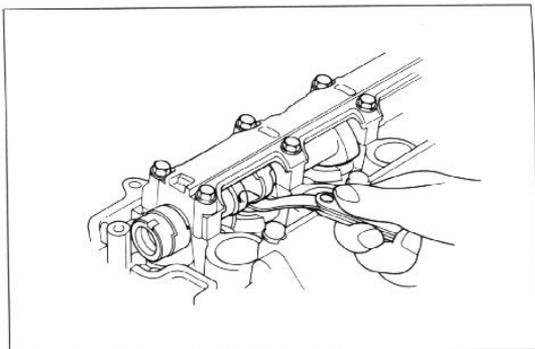


Turn the crankshaft clockwise 1/2 turn (180°) and make sure the index line on the ignition pulse generator rotor is facing up as shown.

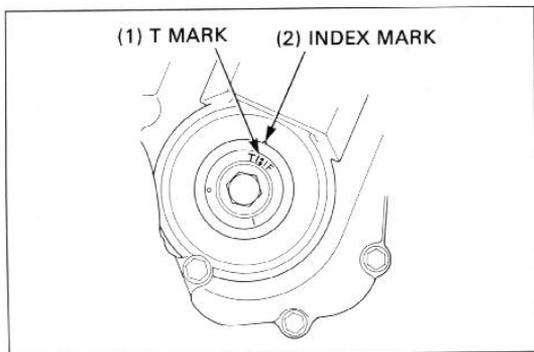


Insert a feeler gauge between the cam lobe and valve lifter for the No. 2 cylinder.

Measure and record the valve clearance.

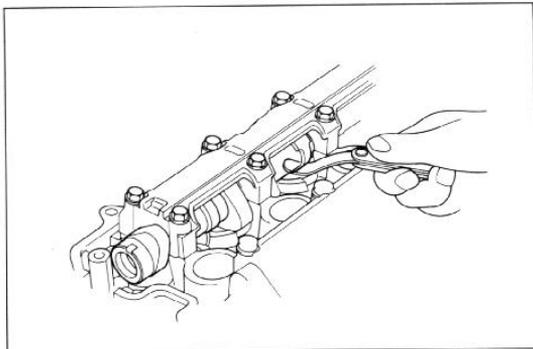


Turn the crankshaft clockwise 1/2 turn (180°) and make sure T mark (notch mark) on the ignition pulse generator rotor aligns with the index mark on the ignition pulse generator cover.

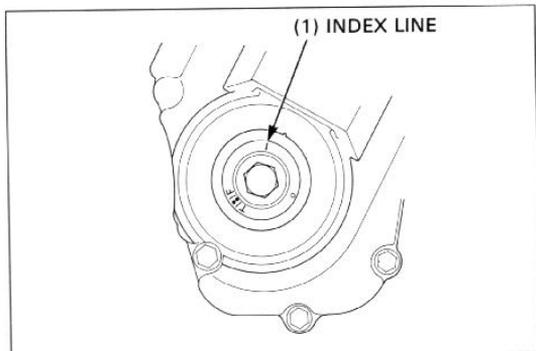


Insert a feeler gauge between the cam lobe and valve lifter for the No. 4 cylinder.

Measure and record the valve clearance.



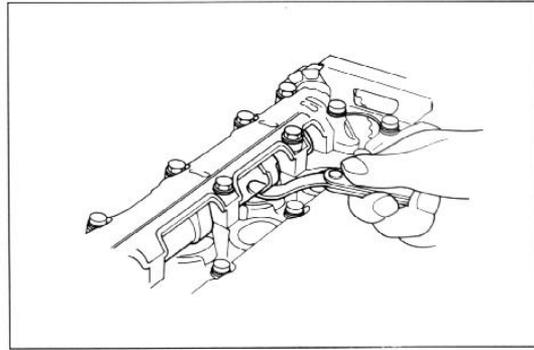
Turn the crankshaft clockwise 1/2 turn (180°) and make sure the index line on the ignition pulse generator rotor is facing up as shown.



Maintenance

Insert a feeler gauge between the cam lobe and valve lifter for the No. 3 cylinder.

Measure and record the valve clearance.



Shim Selection

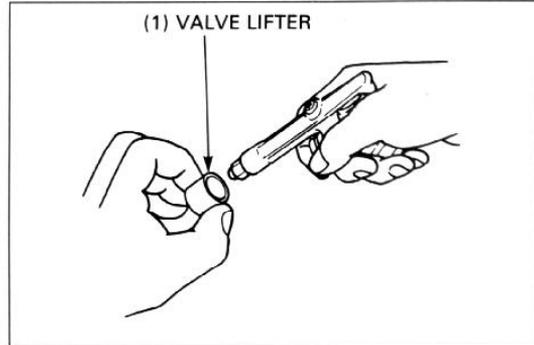
If the clearance is not correct :

Remove the camshafts (page 8-2).

Remove the valve lifter and shims (page 8-2).

NOTE

- Do not allow shims to fall into the crankcase. The shim(s) may occasionally stick to the valve lifter.
- Mark the positions of all valve lifters and shims to ensure correct reassembly.
- It is easy to remove the valve lifter with a valve lapping tool or magnet.
- Remove the shims with tweezers or a magnet.



Clean the valve lifter with compressed air.

Measure the shim thickness with a micrometer and record it.

NOTE

- Sixty-five different shims are available in thickness intervals of 0.025 mm. The thinnest is 1.200 mm and the thickest is 2.800 mm.

To confirm your shim choice, you may use the following formula :

$$a = (b - c) + d$$

a : new shim thickness

b : recorded valve clearance

c : specified valve clearance

d : old shim thickness

Example:

recorded valve clearance : 0.06 mm

old shim thickness : 1.875 mm

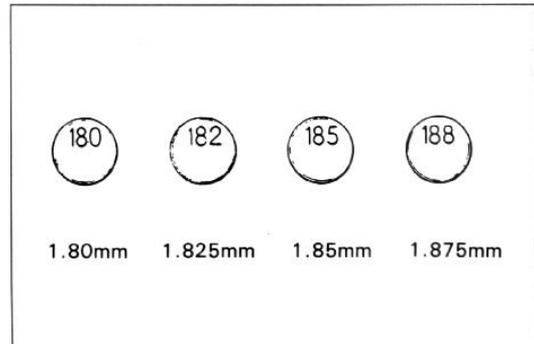
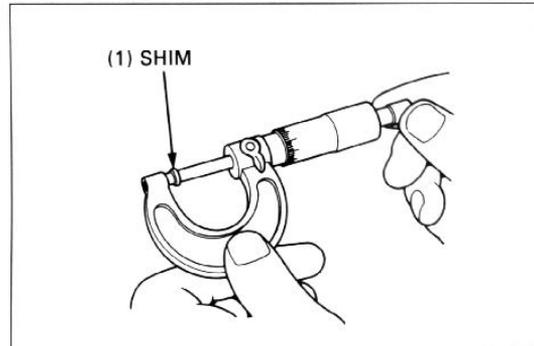
specified valve clearance : 0.16 mm

$$a = (0.06 - 0.16) + 1.875 \text{ mm}$$

$$a = 1.775$$

NOTE

- If the required thickness of the new shim is more than 2.800 mm, the valve seat is probably heavily carboned. Reface the seat, recheck valve clearance and reselect the shim.



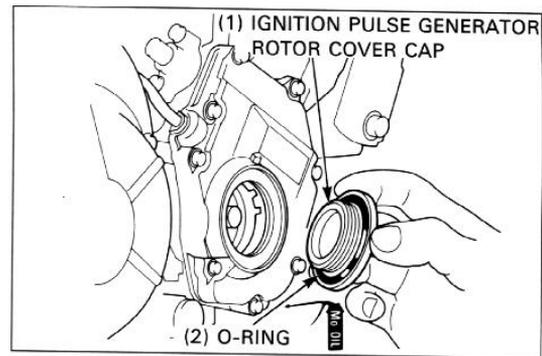
Check the ignition pulse generator rotor cover cap O-ring for damage or deterioration. Replace it with a new one if necessary.

Apply molybdenum disulfide grease to the ignition pulse generator cover cap threads and tighten it.

Torque : 18 N · m (1.8 kg-m, 13 ft-lb)

Install the following :

- cylinder head cover (page 8-2)
- air cleaner housing (page 6-3)
- radiator (page 5-5)



Carburetor Synchronization

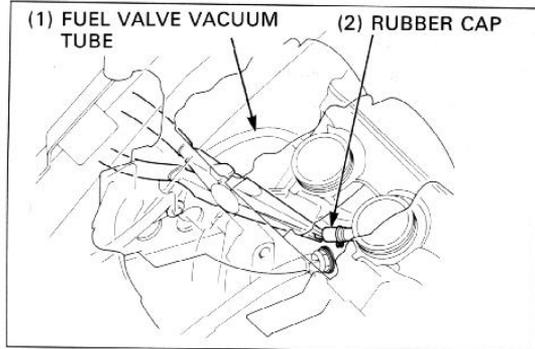
NOTE

- Refer to section 2 of the Common Service Manual for carburetor synchronization procedure.
- Synchronize the carburetors with the engine at normal operating temperature and the transmission in neutral.
- No. 2 carburetor is the base carburetor.

Remove the fuel tank (page 2-11).

Disconnect the fuel valve vacuum tube from the No. 1 carburetor vacuum joint.

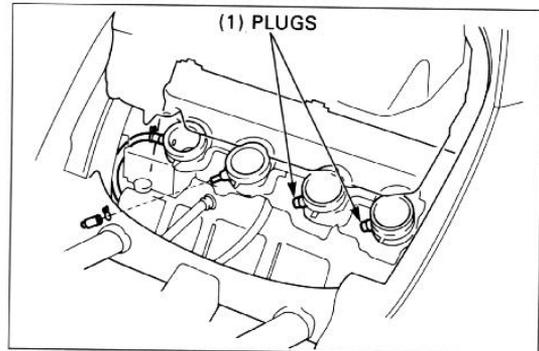
Remove the rubber cap from the No. 2 carburetor vacuum joint.



CAUTION

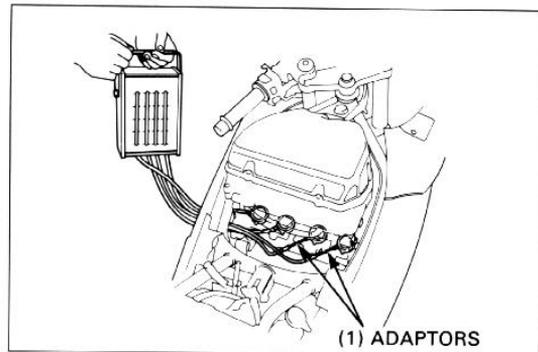
- Remove the rubber cap by pinching the end of the cap. Do not pinch the cap body or it will be damaged.

Remove the vacuum plugs from the No.3 and No.4 carburetor.

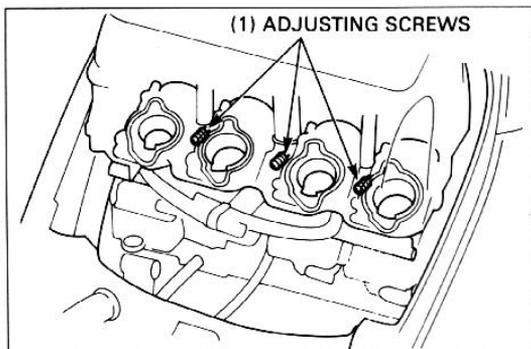


Screw the adaptors in the No.3 and No.4 carburetor vacuum holes.

Connect the vacuum tubes to the carburetor.



Synchronize the carburetors by turning the adjusting screws.



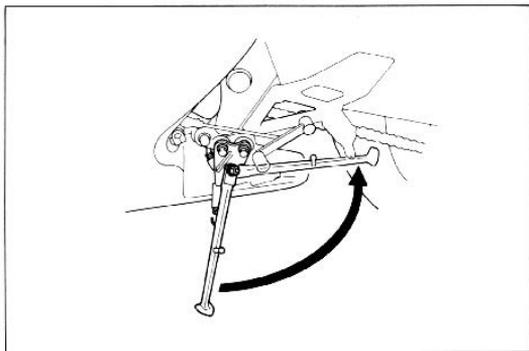
Side Stand

Check the side stand ignition cut-out system:

- Support the motorcycle upright and raise the side stand.
- Start the engine with the transmission in neutral, then shift the transmission into gear with the clutch lever pulled in.
- Move the side stand down fully.
- The engine should stop as the side stand is lowered.

If there is a problem with the system, check the side stand switch (Section 18).

Check the side stand switch mounting bolts for looseness.



4. Lubrication System

Service Information	4-1	Oil Pump Removal/Installation	4-4
Troubleshooting	4-1	Oil Pump Disassembly/Assembly	4-5
Lubrication System Diagram	4-2	Oil Cooler Removal/Installation	4-6
Oil Pan Removal/Installation	4-3	Oil Cooler Disassembly/Assembly	4-7

Service Information

▲ WARNING

- 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. The exhaust contains poisonous carbon monoxide gas that can cause loss of consciousness and may lead to death.
 - 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.**
-
- The service procedures in this section can be performed with the engine in the frame.
 - When removing and installing the oil pump, use care not to allow dust or dirt to enter the engine.
 - If any portion of the oil pump is worn beyond the specified service limits, replace the oil pump as an assembly.
 - After the oil pump has been installed, check that there are no oil leaks and that oil pressure is correct.
 - Always lubricate the oil pump components with clean engine oil when assembling the oil pump.

Troubleshooting

Oil Level Low

- Oil consumption
- External Oil Leak
- Worn piston ring or incorrect piston ring installation
- Worn valve guide or seal
- Oil pump worn or damaged
- Oil leaks in the cooling system

Low Or No Oil Pressure

- Clogged oil orifice
- Clogged oil passage
- Incorrect oil being used

No Oil Pressure

- Oil level too low
- Oil pump drive chain or drive sprocket broken
- Oil pump damaged (pump shaft)
- Internal oil leaks

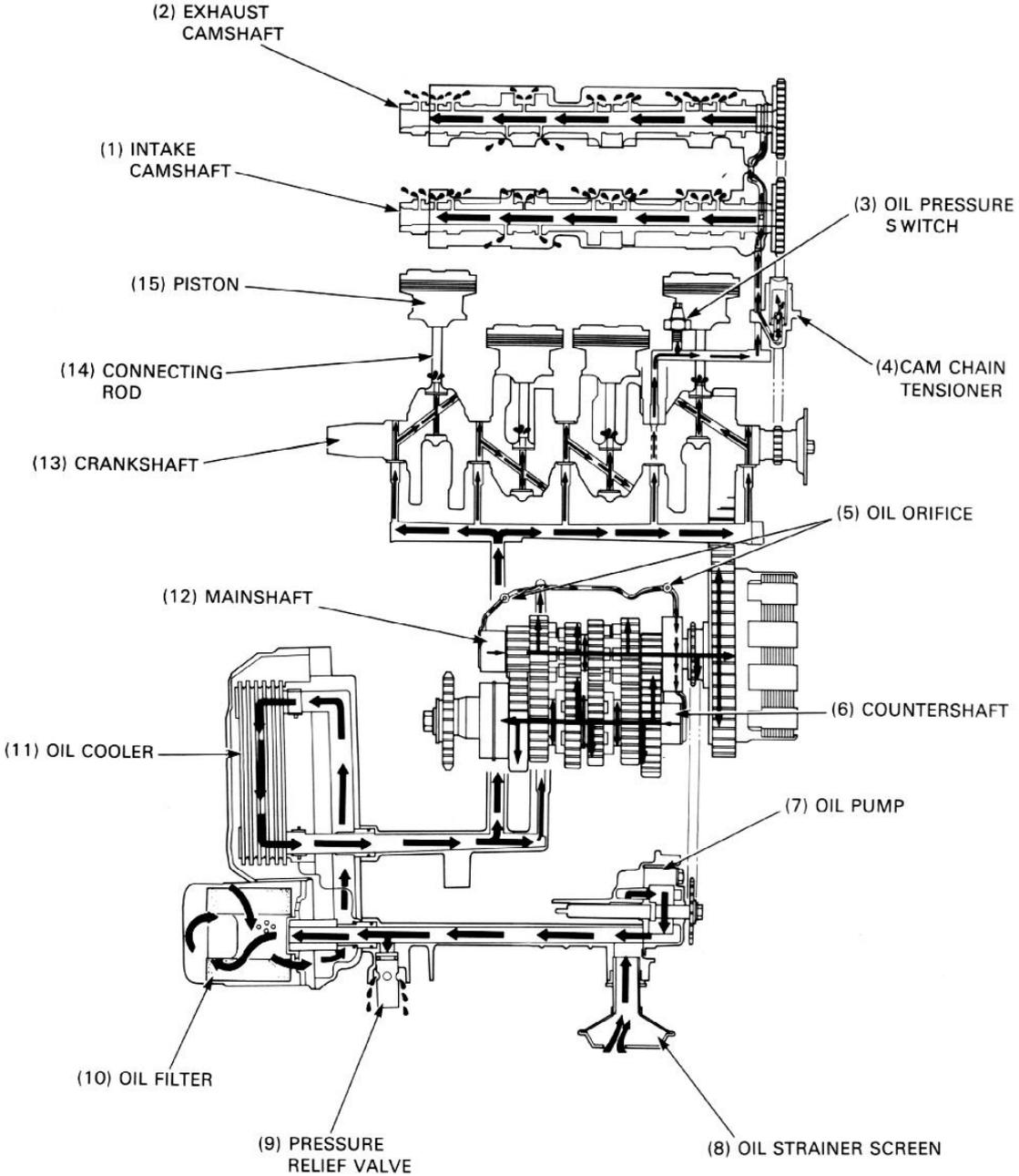
Low Oil Pressure

- Pressure relief valve stuck open
- Clogged oil filter
- Oil pump worn or damaged
- Internal oil leaks
- Incorrect oil being used
- Oil level too low

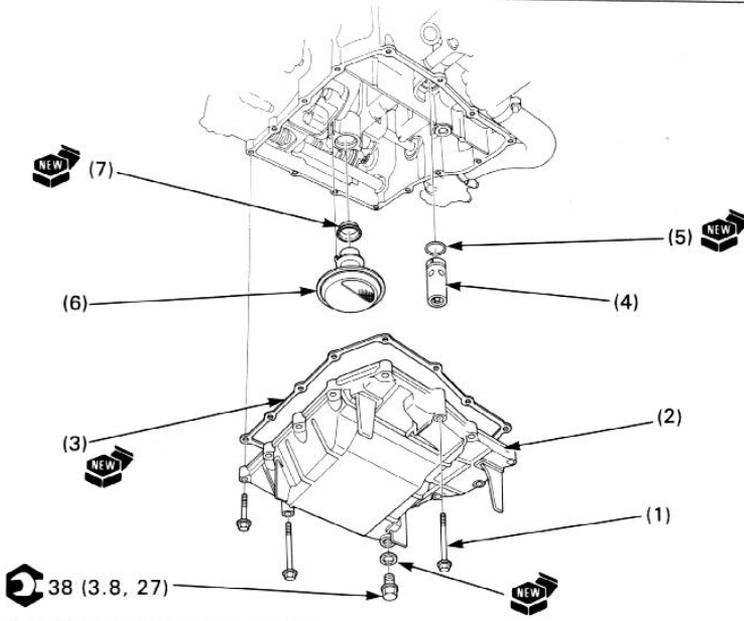
High Oil Pressure

- Pressure relief valve stuck closed and oil filter plugged
- Plugged oil filter, gallery, or metering orifice
- Incorrect oil being used

Lubrication System Diagram



Oil Pan Removal/Installation



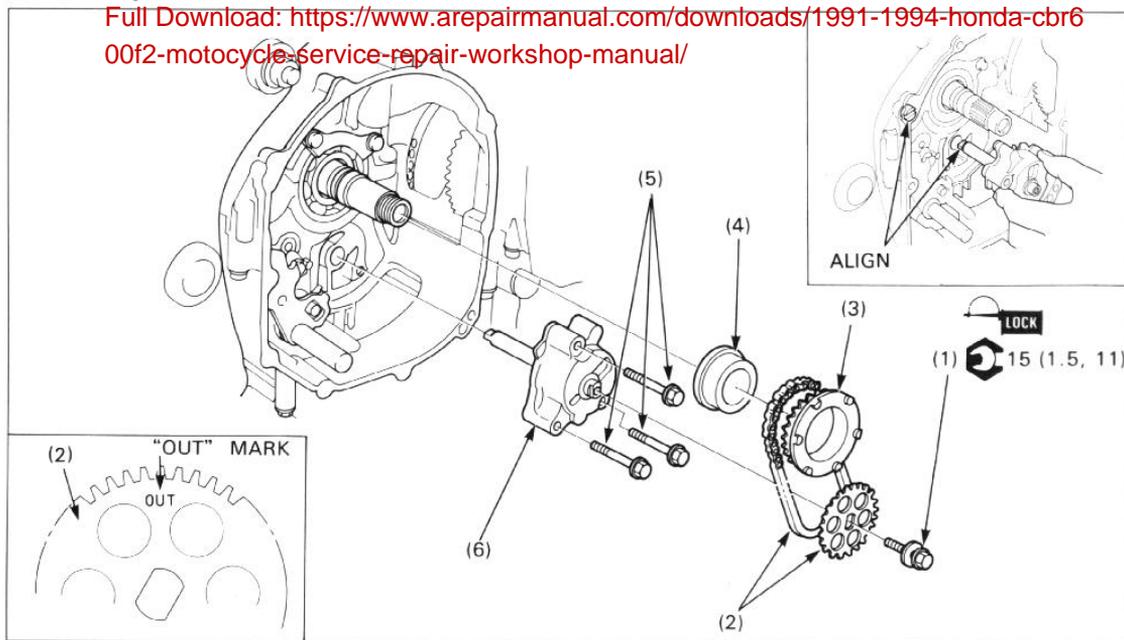
Requisite Service

- Exhaust pipe removal/installation (page 2-10)

Procedure		Q'ty	Remarks
Removal Order			
(1)	Oil pan bolt	14	Installation is in the reverse order of removal. Tighten the bolts in a gradual, crisscross pattern. Clean the liquid sealant residue off the mating surfaces. Install the oil strainer gasket in the lower crankcase with its flange side facing oil strainer.
(2)	Oil pan	1	
(3)	Gasket	1	
(4)	Pressure relief valve	1	
(5)	O-ring	1	
(6)	Oil strainer	1	
(7)	Oil strainer gasket	1	

Oil Pump Removal/Installation

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NOTE

- Use care not to allow dust or dirt to enter the engine.
- After installation, check that there are no oil leaks and that oil pressure is correct.

Requisite Service

- Clutch removal (page 9-4)
- Clutch installation (page 9-12)

Procedure		Q'ty	Remarks
Removal Order			Installation is in the reverse order of removal.
(1)	Oil pump driven sprocket bolt	1	Install the oil pimp driven sprocket with the "OUT" mark facing out.
(2)	Oil pump driven sprocket/Oil pump drive chain	1/1	
(3)	Oil pump drive sprocket	1	
(4)	Oil pump drive sprocket collar	1	
(5)	Oil pump mounting bolt	3	
(6)	Oil pump assembly	1	

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