Introduction

This service manual describes the service procedures for the SK50M.
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 Motorcycles/Motor Scooters/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 scooter.

Follow the Maintenance Schedule (Section 3) recommendations to ensure that the vehicle is in peak operating condition. 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 scooter. Section 2 illustrates procedures for removal/installation of components that may be required to perform service described in the following sections.
While Sections 4 through 17 describe parts of the scooter, grouped according to locations.

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 details on how to use this manual.

If you don't know the source of the trouble, go to section 18 TROUBLESHOOTING.

HONDA MOTOR CO., LTD.
SERVICE PUBLICATIONS OFFICE

Contents

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Important Safety Notice

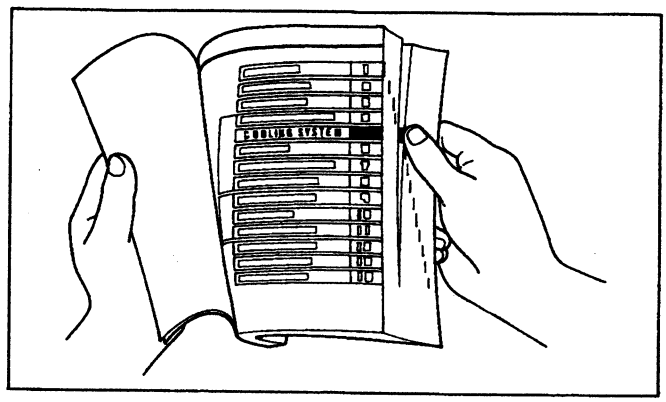
⚠ WARNING **Indicates a strong possibility of severe personal injury or death if instructions are not followed.**

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.

How to Use This Manual

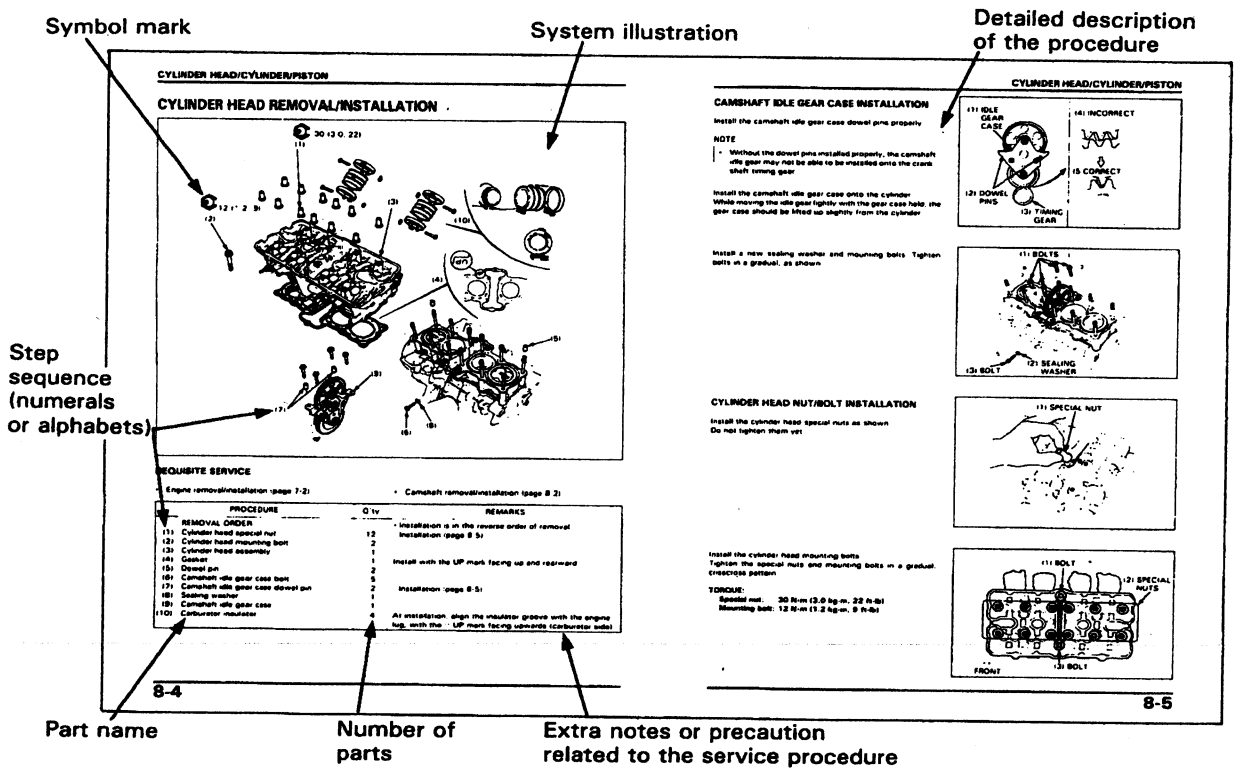


Finding Information You Need

- 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 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 seperately.
  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 symbol marks 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

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 the engine oil and molybdenum grease with the ratio 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 the agent of the middle strength, unless otherwise specified.
	Apply sealant
	Use brake fluid, DOT 3 or DOT 4. Use the recommended brake fluid, unless otherwise specified.
	Use Fork or Suspension Fluid.

1. General Information

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.**

Brake Dust
Never use an air hose or dry brush to clean brake assemblies. Use a vacuum cleaner or alternate method designed to minimize the hazard caused by airborne asbestos fibers.

⚠ WARNING

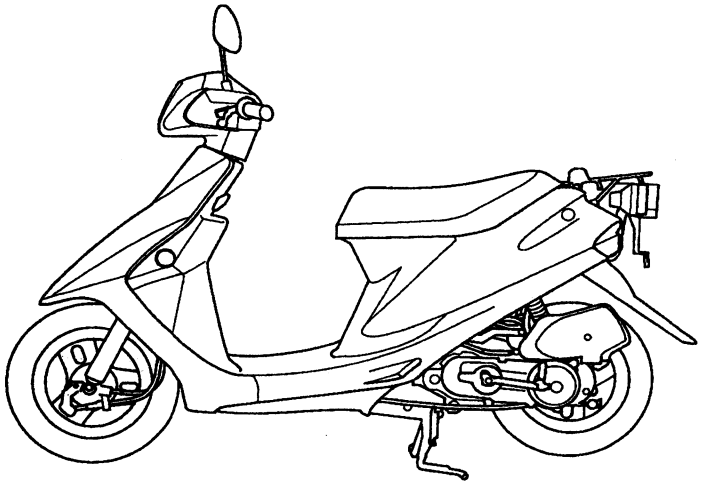
- **Inhaled asbestos fibers have been found to cause respiratory disease and cancer.**

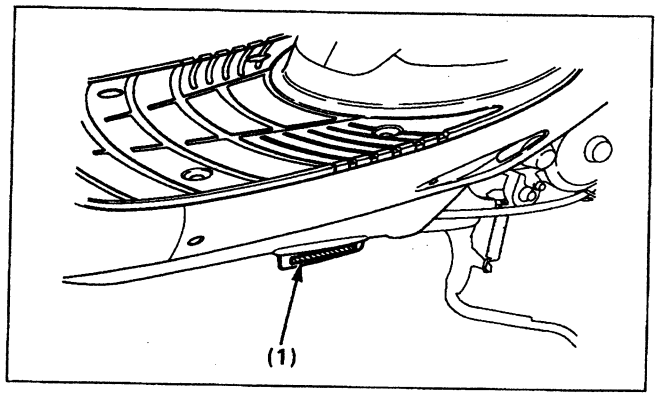
Battery Hydrogen Gas & Electrolyte

⚠ WARNING

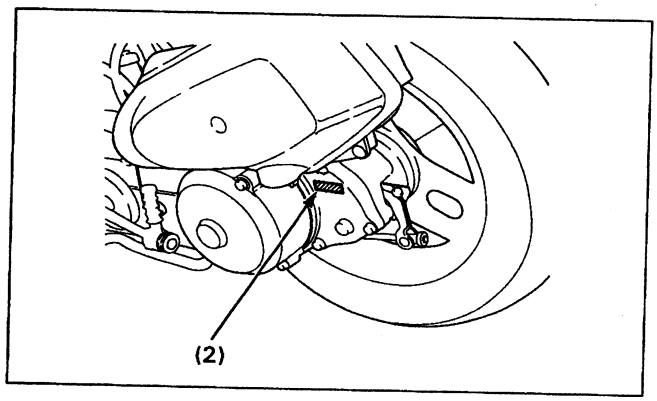
- **The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging.**
- **The battery contains sulfuric acid (electrolyte). Contact with skin or eyes may cause severe burns. Wear protective clothing and a face shield.**
  - **If electrolyte 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

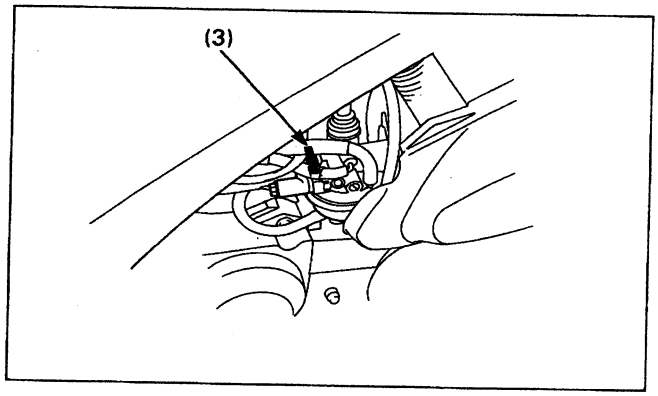




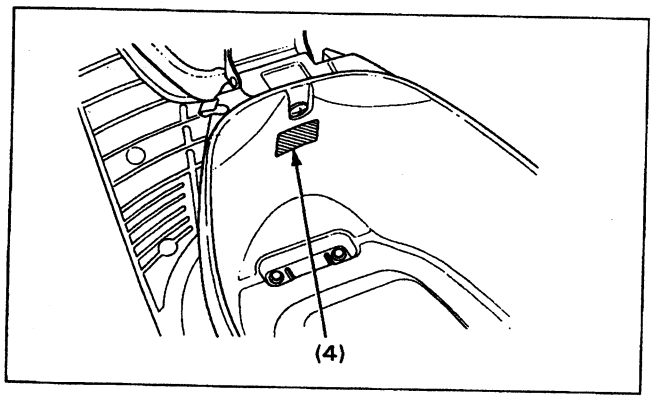
(1) FRAME SERIAL NUMBER
The frame serial number is stamped on the left side of the frame.



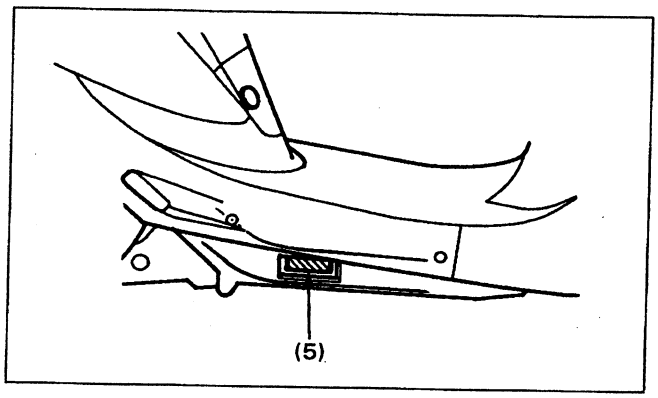
(2) ENGINE SERIAL NUMBER
The engine serial number is stamped on the left side of the transmission cover.



(3) CARBURETOR IDENTIFICATION NUMBER
The carburetor identification number is stamped on the left side of the carburetor body.



(4) COLOR CODE LABEL
The color code label is attached to the luggage box under the seat. When ordering a color coded parts, always specify its designated color.



(5) SAFETY CERTIFICATION LABEL (CM type only)
The safety certification label is attached to the right side of the frame.

Specifications

General

Unit: mm (in)

Item		Specifications
Dimensions	Overall length	1,650 (65.0)
	Overall width	645 (25.4)
	Overall height	990 (39.0)
	Wheelbase	1,145 (45.1)
	Seat height	715 (28.1)
	Footpeg height	360 (14.2)
	Ground clearance	100 (3.9)
	Dry weight	66 kg (146.6 lbs)
	Curb weight	71 kg (157.7 lbs)
	Maximum weight capacity	91 kg (200 lbs)
Frame	Frame type	Under bone
	Front suspension	Telescopic
	Front wheel travel	53.7 (2.11)
	Rear suspension	Final drive unit/swingarm
	Rear wheel travel	60.7 (2.39)
	Front damper	——
	Rear damper	——
	Front tire size	3.00–10 42J
	Rear tire size	3.00–10 42J
	Tire brand (Bridgestone) Front/Rear	ML31/ML32
	Tire brand (Dunlop) Front/Rear	K378F/K378
	Tire brand (IRC) Front/Rear	MB48/MB47
	Front brake	Internal expanding shoe
	Rear brake	Internal expanding shoe
	Caster angle	26° 30′
	Trail length	73 (2.9)
	Fuel tank capacity	5.0 liters (1.32 US gal, 1.10 Imp gal)
	Fuel tank reserve capacity	——
	Fork leg oil capacity	——
Engine	Bore and stroke	39.0 x 41.4 (1.54 x 1.63)
	Displacement	49.4 cm³ (3.01 cu in)
	Compression ratio	7.1
	Port timing intake open	Reed valve controlled
	Port timing intake close	Reed valve controlled
	Port timing Exhaust open	84° BBDC
	Port timing Exhaust close	84° ABDC
	Port timing Scavenge open	62° BBDC
	Port timing Scavenge close	62° ABDC
	Firing order	——
	Lubrication system	Oil automatically mixed with gasoline
	Oil pump type	Plunger type
	Cooling system	Forced air cooled
	Air filtration	Urethane foam
	Crankshaft type	Assembly type
	Egnine weight (dry)	16.1 kg (35.5 lbs)

General (cont'd)

Unit: mm (in)

Item		Specifications
Carburetor	Carburetor type Venturi dia.	Piston valve 14.0 (0.55)
Drive train	Clutch system Primary reduction Final reduction Gear ratio	Dry, automatic centrifugal clutch —— 12.115 2.450–0.850
Electrical	Ignition system Starting system Charging system Regulator/rectifier type	CDI Electric starter motor/kickstarter Single phase alternator, 12 V–133 W SCR switching regulator, AC regulator built in type/ single phase, half-wave rectifier

Unit: mm (in)

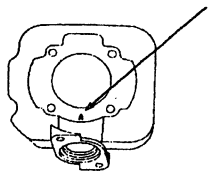
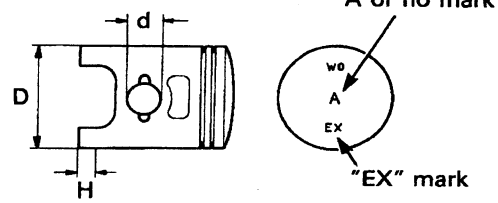
Lubrication

Item	Standard	Service limit
Engine oil tank capacity	1.2 liters (1.27 US qt, 1.06 Imp qt)	———
Recommended engine oil	Use Honda 2-stroke oil or equivalent	———

Fuel System

Carburetor identification number	PB80P	———
Main jet	#75A	———
Slow jet	#35	———
Jet needle clip position	3rd groove	———
Air screw initial opening	1-1/4 turns out	———
Air screw high altitude adjustment	———	———
Float level	8.0 (0.31)	———
Idle speed	1,800 ± 100 min^{-1} (rpm)	———
Throttle grip free play	2–6 (0.08–0.24 in)	———

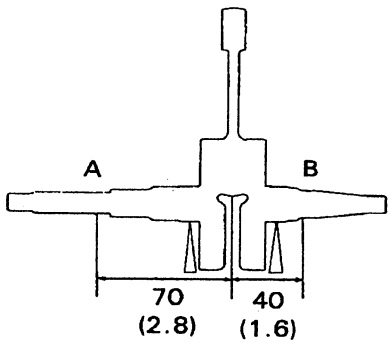
Cylinder Head/Cylinder/Piston

Cylinder compression	981 kPa (10.0 kg/cm^2, 142 psi)/600 min^{-1} (rpm)	———
Cylinder head warpage	———	0.01 (0.0004)
Cylinder warpage	———	0.01 (0.0004)
Cylinder identification mark location	Lower surface of the cylinder	———
		
Cylinder I.D. A mark	39.000–39.005 (1.5354–1.5356)	39.05 (1.537)
No mark	39.005–39.010 (1.5356–1.5358)	39.05 (1.537)
out of round	———	0.10 (0.004)
taper	———	0.10 (0.004)
Piston mark direction	"EX" mark facing exhaust side	
Piston O.D. (D) A mark	38.955–38.960 (1.5337–1.5339)	38.90 (1.531)
B mark	38.965–38.970 (1.5341–1.5342)	38.90 (1.531)
No mark	38.960–38.965 (1.5339–1.5341)	38.90 (1.531)
Piston O.D. measurement point (H)	6.5 (0.26) from the bottom	———
Piston pin hole I.D. (d)	12.002–12.008 (0.4725–0.4728)	12.03 (0.474)
		
Cylinder-to-piston clearance	0.035–0.050 (0.0014–0.0020)	0.10 (0.004)
Piston pin O.D.	11.994–12.000 (0.4722–0.2724)	11.98 (0.4717)
Piston-to-piston pin clearance	0.002–0.014 (0.0001–0.0006)	0.03 (0.001)
Top ring-to-ring groove clearance	———	———
Second ring-to-ring groove clearance	———	———
Top ring end gap	0.10–0.25 (0.004–0.010)	0.40 (0.016)
Secend ring end gap	0.10–0.25 (0.004–0.010)	0.40 (0.016)
Top ring mark	"N" mark	———
Second ring mark	"ZT" mark	———

Crankshaft

Unit: mm (in)

Item	Standard	Service limit
Connecting rod small end I.D.	17.005–17.017 (0.6695–0.6700)	17.03 (0.6705)
Connecting rod big end side clearance	0.15–0.55 (0.006–0.022)	0.60 (0.024)
radial clearance	0.007–0.019 (0.0003–0.0007)	0.04 (0.002)
Crankshaft runout at A	———	0.15 (0.006)
at B	———	0.10 (0.004)



Kickstarter/Balancer

Kickstarter spindle O.D.	———	———
bushing I.D.	———	———
Kickstarter idle gear I.D.	———	———
bushing O.D.	———	———
Kickstarter driven gear I.D.	———	———
boss O.D.	———	———

Drive Train

Drive belt width	15.5 (0.61)	14.5 (0.57)
Movable drive face bushing I.D.	20.035–20.085 (0.7888–0.7907)	20.60 (0.811)
boss O.D.	20.010–20.025 (0.7878–0.7884)	19.97 (0.786)
weight roller O.D.	15.92–16.08 (0.627–0.633)	15.40 (0.606)
Clutch lining thickness	4.5 (0.18)	2.0 (0.08)
Engine brake clutch lining thickness	———	———
I.D.	———	———
Drive chain slack	———	———
Driven face spring free length	98.1 (3.86)	92.8 (3.65)
Driven face O.D.	33.965–33.985 (1.3372–1.3380)	33.94 (1.336)
Movable driven face I.D.	34.000–34.025 (1.3386–1.3397)	34.06 (1.341)
Final reduction gear case oil capacity at disassembly	90 cc (3.04 US oz, 3.16 Imp oz)	———
at draining	———	———
Clutch outer I.D.	107.0–107.2 (4.21–4.22)	107.5 (4.23)

Cooling System

Coolant capacity (Radiator and engine)	———	———
(Reserve tank)	———	———
Radiator cap relief pressure	———	———
Thermostat begin to open	———	———
Thermostat fully open	———	———
Thermostat valve lift	———	———

Unit: mm (in)

Wheels/Tires

Item	Standard	Service limit
Cold tire pressure (Front)	125 kPa (1.25 kg/cm², 18 psi)	———
(Rear)	200 kPa (2.00 kg/cm², 29 psi)	———
Front and rear axle runout	———	0.2 (0.008)
Front and rear wheel rim runout (Radial)	———	2.0 (0.08)
(Axial)	———	2.0 (0.08)
Drive chain slack	———	———
Drive chain size/link (DID)	———	———
(RK)	———	———

Front Suspension

Fork spring free length	133.5 (5.26)	129.5 (5.10)
Fork spring free length A	———	———
B	———	———
Fork spring direction	Tightly wound coil facing up	———
Fork tube runout	———	———
Recommended fork oil	———	———
Fork oil level	———	———
Fork oil level (Right)	———	———
(Left)	———	———
Fork oil capacity	———	———
Fork oil capacity (Right)	———	———
(Left)	———	———
Fork air pressure	———	———
Steering bearing preload	———	———

Rear Suspension

Shock absorber spring free length	———	———
Shock absorber spring free length A	———	———
B	———	———
Shock absorber spring direction	———	———
Damper drilling point	———	———

Brakes

Front brake fluid	———	———
brake lever free play	10–20 (0.4–0.8)	———
brake disc thickness	———	———
brake disc runout	———	———
master cylinder I.D.	———	———
master piston O.D.	———	———
caliper cylinder I.D.	———	———
caliper piston O.D.	———	———
brake drum I.D.	95.0 (3.74)	95.5 (3.76)
brake lining thickness	3.0 (0.12)	1.0 (0.04)
Rear brake fluid	———	———
brake lever free play	10–20 (0.4–0.8)	———
brake pedal free play	———	———
brake disc thickness	———	———
brake disc runout	———	———
master cylinder I.D.	———	———
master piston O.D.	———	———
caliper cylinder I.D.	———	———
caliper piston O.D.	———	———
brake drum I.D.	95.0 (3.74)	95.5 (3.76)
brake lining thickness	3.0 (0.12)	1.0 (0.04)

Unit: mm (in)

Battery/Charging System

Item	Standard	Service limit
Alternator charging coil resistance (at 20°C/68°F)	0.4–1.0 Ω (between W and ground)	———
lighting coil resistance (at 20°/68°F)	0.2–0.8 Ω (between Y and ground)	
Regulator/rectifier regulated voltage (Charging)	14.0–15.0 V/5,000 min^{-1} (rpm)	———
(Lighting)	12.6–13.6 V/5,000 min^{-1} (rpm)	———
Battery capacity	12 V 3 Ah	———
Battery specific gravity (Fully charged)	———	———
(Needs charging)	———	———
Battery charging rate (Normal)	0.4 A x 5 h	———
(Quick)	4 A x 0.5 h	———
Battery voltage (Fully charged, at 20°/68°F)	13.0–13.2 V	———
(Needs charging, at 20°/68°F)	12.3 V	———
Auto bystarter resistor resistance (6.7 Ω 5 W)	4.7–5.3 Ω	———

Ignition System

Spark plug (Standard)	BR6HSA (NGK)	———
	W20FR-L (NIPPONDENSO)	———
(For cold climate/below 5°C/41°F)	BR4HSA (NGK)	———
	W14FR-L (NIPPONDENSO)	———
(For extended high speed riding)	BR8HSA (NGK)	———
	W24FR-L (NIPPONDENSO)	———
Spark plug gap	0.6–0.7 (0.024–0.028)	———
Ignition timing "F" mark	17° BTDC/1,800 min^{-1} (rpm)	———
Peak voltage Ignition coil	100 V minimum	———
Exciter coil	100 V minimum	———
Pulse generator coil	0.7 V minimum	———
Alternator exciter coil resistance (at 20°C/68°F)	400–800 Ω	———
Ignition coil resistance (at 20°C/68°F)		
Primary	0.1–0.4 Ω	———
Secondary with plug cap	6.5–9.7 kΩ	———
Secondary without plug cap	2.7–3.5 kΩ	———
Pulse generator resistance (at 20°C/68°F)	50–200Ω	———

Lights/Meters/Switches

Fuse		10 A	———
Headlight (high/low beam)	U type	12 V 35/35 W	———
	CM type	12 V 25/25 W	———
Brake/taillight	U type	12 V 21/5 W	———
	CM type	12 V 32/3 cp	———
Front turn signal light	U type	12 V 21 W x 2	———
	CM type	12 V 21 cp x 2	———
Rear turn signal light	U type	12 V 21 W x 2	———
	CM type	12 V 32 cp x 2	———
Instrument light		12 V 1.7 W x 2	———
High beam indicator		12 V 1.7 W	———
Turn signal indicator		12 V 3.4 W	———
Fuel level sensor resistance (at full position)			
between G and Y/W		25–45 Ω	———
between G and Bu/W		400–700 Ω	———
between Y/W and Bu/W		450–750 Ω	———
(at empty position)			
between G and Y/W		400–700 Ω	———
between G and Bu/W		25–45 Ω	———
between Y/W and Bu/W		450–750 Ω	———

Torque Values

Standard

Fastener Type	Torque N·m (kg-m, ft-lb)	Fastener Type	Torque N·m (kg-m, ft-lb)
5 mm bolt and nut	5 (0.5, 3.5)	5 mm screw	4 (0.4, 2.9)
6 mm bolt and nut	10 (1.0, 7)	6 mm screw	9 (0.9, 6.5)
8 mm bolt and nut	22 (2.2, 16)	6 mm flange bolt (8 mm head)	9 (0.9, 6.5)
10 mm bolt and nut	35 (3.5, 25)	6 mm flange bolt (10 mm head) and nut	12 (1.2, 9)
12 mm bolt and nut	55 (5.5, 40)	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.

Engine

Item	Q'ty	Thread dia. (mm)	Torque N·m (kg-m, ft-lb)	Remarks
Lubrication system:				
Oil pump mounting bolt	1	6	10 (1.0, 7)	
Fuel system:				
Carburetor mounting bolt	2	6	10 (1.0, 7)	
Left shroud mounting bolt	2	6	10 (1.0, 7)	
Intake manifold mounting bolt	4	6	10 (1.0, 7)	
Air cleaner case mounting bolt	2	6	12 (1.2, 9)	
Cylinder head/cylinder/piston:				
Cylinder head bolt	4	6	10 (1.0, 7)	Apply oil to the threads and flange surface.
Spark plug	1	14	14 (1.4, 10)	
Kickstarter/drive pulley/clutch/ driven pulley:				
Left crankcase rear cover bolt	5	6	10 (1.0, 7)	
Left crankcase front cover bolt	5	6	10 (1.0, 7)	
Drive pulley nut	1	12	60 (6.0, 43)	Apply oil to the threads and seating surface.
Clutch outer nut	1	10	40 (4.0, 29)	
Movable drive face seal bolt	3	4	4.5 (0.45, 3.3)	
Clutch drive plate nut	1	28	55 (5.5, 40)	
Final reduction:				
Transmission cover bolt	5	6	10 (1.0, 7)	
Transmission oil level check bolt	1	8	13 (1.3, 9)	
Crankcase/crankshaft:				
Crankcase bolt	6	6	10 (1.0, 7)	
Charging system/alternator:				
Cooling fan cover bolt	2	6	10 (1.0, 7)	
Cooling fan bolt	4	6	8 (0.8, 5.8)	
Flywheel nut	1	10	40 (4.0, 29)	
Stator bolt	2	6	10 (1.0, 7)	
Pulse generator bolt	2	6	10 (1.0, 7)	
Electric starter:				
Starter motor mounting bolt	2	6	10 (1.0, 7)	

Frame

Item	Q'ty	Thread dia. (mm)	Torque N·m (kg-m, ft-lb)	Remarks
Exhaust system:				
Exhaust pipe joint nut	2	6	12 (1.2, 9)	
Muffler mounting bolt	2	8	27 (2.7, 20)	
Exhaust pipe protector bolt	2	6	12 (1.2, 9)	
Engine mount:				
Engine mounting bolt	1	10	50 (5.0, 36)	
Engine mounting bracket bolt	1	10	60 (6.0, 43)	
Front wheel/suspension/ steering/brake:				
Speedometer cable set screw	1	4	2 (0.2, 1.4)	
Front axle nut	1	10	45 (4.5, 33)	
Front brake arm bolt	1	5	6 (0.6, 4.3)	
Fork pinch bolt	4	8	27 (2.7, 20)	
Handlebar pinch bolt	1	10	50 (5.0, 36)	
Steering stem lock nut	1	25.4	70 (7.0, 51)	
Rear wheel/suspension/brake:				
Rear axle nut	1	14	120 (12.0, 87)	Apply oil to the threads and seating surface.
Rear brake arm bolt	1	5	6 (0.6, 4.5)	
Shock absorber upper mounting bolt	1	10	40 (4.0, 29)	
Shock absorber lower mounting bolt	1	8	27 (2.7, 20)	

Tools

• Refer to "Ball bearing replacement" in section 1 of the Common Service Manual.

Description	Tool Number	Application	Section
Float level gauge	07401–0010000	Carburetor float level inspection	5
Clutch center holder	07724–0050001	Drive pulley face removal/installation	8
Universal holder	07725–0030000	Clutch outer removal/installation	
Clutch spring compressor	07960–KM10000	Clutch/driven pulley disassembly/assembly	
Lock nut wrench, 39 x 41 mm	07GMA–KS40100		
Bearing driver	07945–GC80000	Driven face outer bearing installation	
Crankcase assembly collar	07965–GM00100	Driveshaft installation	9
Crankcase assembly shaft	07965–GM00300		
Shaft protector	07931–1870000	Driveshaft removal	
Case puller	07935–GK80000	Crankcase separation	10
Case/driven gear puller	07935–KG80000	Crankshaft removal	
Universal bearing puller	07631–0010000	Crankshaft bearing removal	
Shaft protector	07931–1870000	Crankcase separation, crankshaft removal	
Crankcase assembly collar	07965–GM00100	Crankshaft installation	
Crankcase assembly shaft	07965–1660200		
Crankcase assembly collar	07965–GM00100	Crankcase assembly	
Crankcase assembly shaft	07965–GM00300		
Lock nut wrench A	07916–KM10000	Steering stem lock nut removal/installation	11
Lock nut wrench B	07916–1870100		
Ball race remover	07946–GA70000	Steering head ball race removal	
Driver	07749–0010000	Steering head ball race installation	
Attachment, 42 x 47 mm	07746–0010300		
Snap ring pliers	07914–3230001	Fork disassembly/Assembly	
Universal holder	07725–0030000	Flywheel removal/installation	13
Flywheel puller	07733–0010000	Flywheel removal	

Tools

• Refer to "Ball bearing replacement" in section 1 of the Common Service Manual.

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Shaft protector	07931–1870000	Crankcase separation, crankshaft removal	
Crankcase assembly collar	07965–GM00100	Crankshaft installation	
Crankcase assembly shaft	07965–1660200		
Crankcase assembly collar	07965–GM00100	Crankcase assembly	
Crankcase assembly shaft	07965–GM00300		
Lock nut wrench A	07916–KM10000	Steering stem lock nut removal/installation	11
Lock nut wrench B	07916–1870100		
Ball race remover	07946–GA70000	Steering head ball race removal	
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Attachment, 42 x 47 mm	07746–0010300		
Snap ring pliers	07914–3230001	Fork disassembly/Assembly	
Universal holder	07725–0030000	Flywheel removal/installation	13
Flywheel puller	07733–0010000	Flywheel removal	

Lubrication & Seal Points

Engine

Location	Material	Remarks
Crankcase mating surfaces	Liquid sealant	
Oil pump O-ring Oil pump shaft bearing Cylinder Piston Piston pin Connecting rod small end bearing Crankshaft oil seals Crankshaft 12 mm threaded portion	Honda 2-stroke engine oil	
Crankshaft bearings	Muntipurpose grease	
Oil pump gear	Molybdenum disulfide grease	
Driven face Kickstarter driven gear Kickstarter spindle bearing Starter pinion bearing	Lithium based grease —MITSUBISHI: HD-3 —NIPPON SEKIYU: LIPANOX DELUX 3 —IDEMITSU: AUTOLEX B	Pack 5.0—5.5 g (0.18—0.19 oz) of grease to the inside.
Transmission (final reduction) case	Hypoid gear oil #90	90 cc (3.04 US oz, 3.16 Imp oz)
Transmission (final reduction) oil seal Cylinder head bolts	4-stroke engine oil	

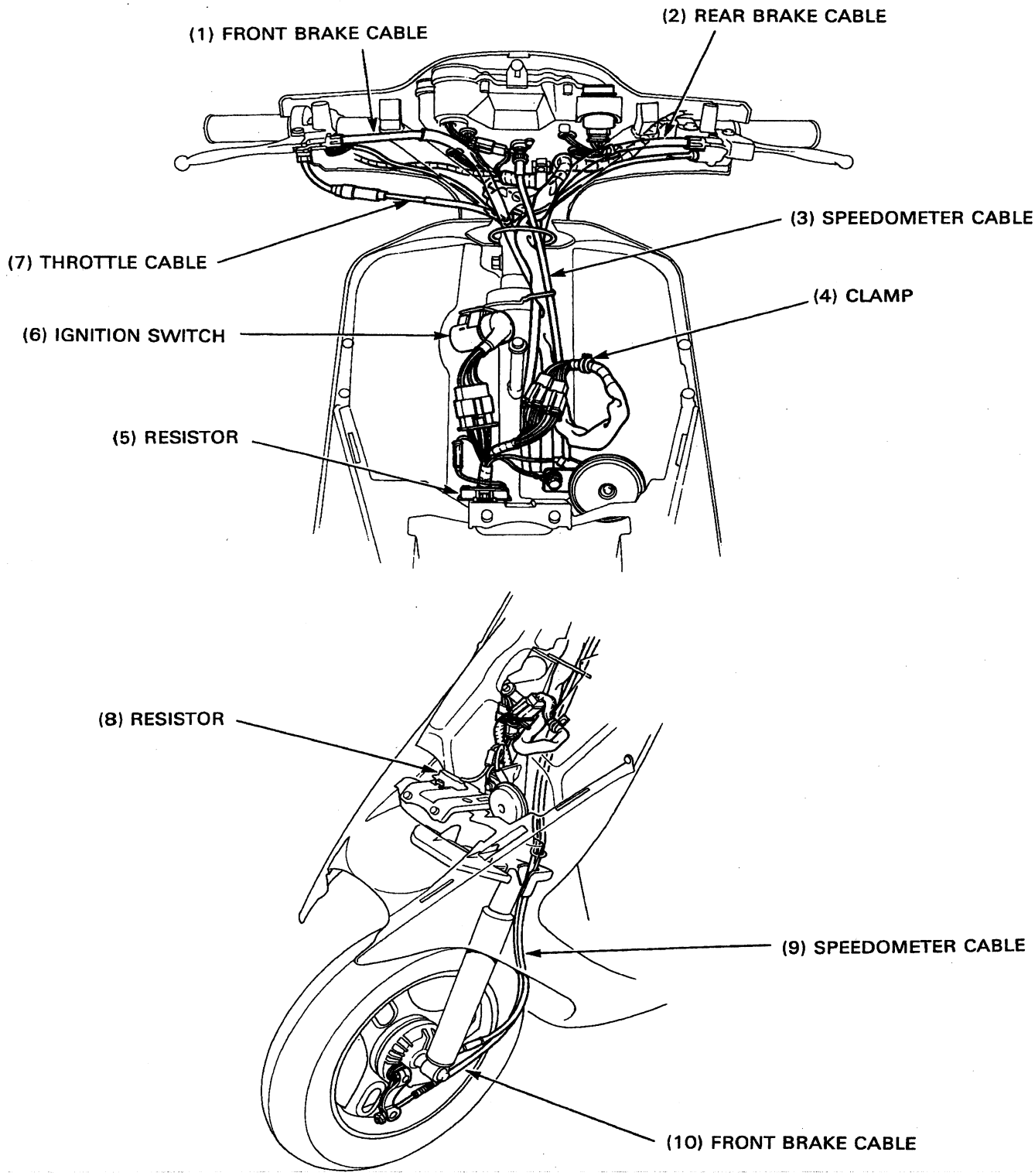
Frame

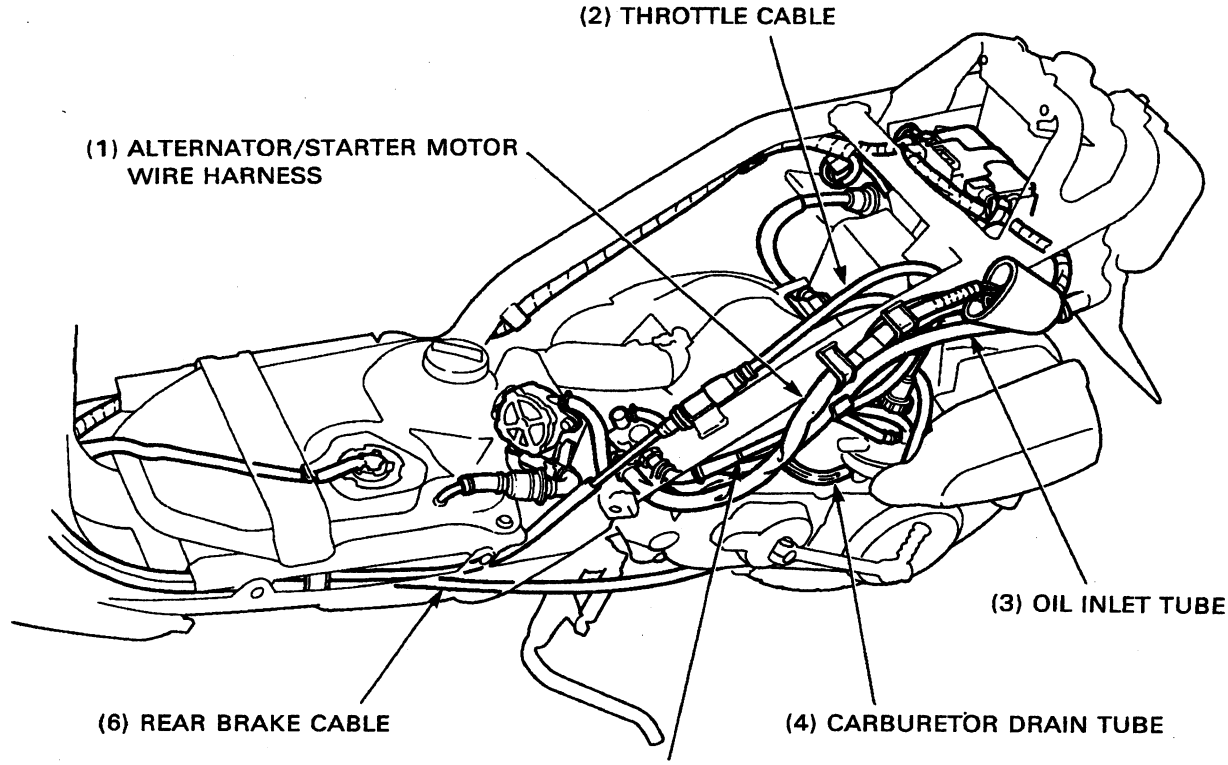
Location	Material	Remarks
Front wheel dust seal lip Fork Fork dust seal lip Fork tube bushing sliding surface Rebound spring Fork spring tightly wound coils Front brake cam Front brake panel anchor pin Front brake panel oil seal lip Rear brake cam Rear brake anchor pin Steering stem bearings Steering stem bearing races Speedometer cable Seat lock pivot Center stand pivot Speedometer gear Speedometer pinion	Multipurpose grease	Pack 1.5—2 g (0.05—0.07 oz) of grease between the bottom case and fork tube (page 11-9).
Inside of the front brake cable boot Inside of the rear brake cable boot	Silicone grease	

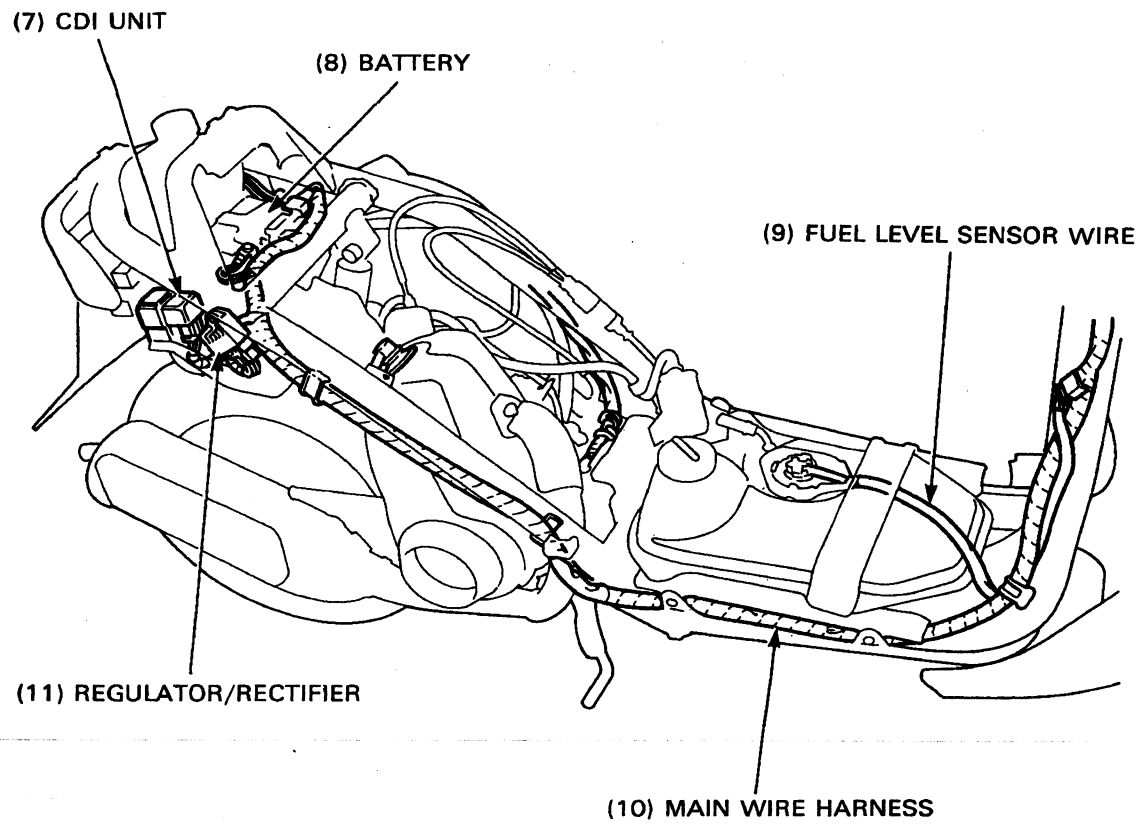
Frame

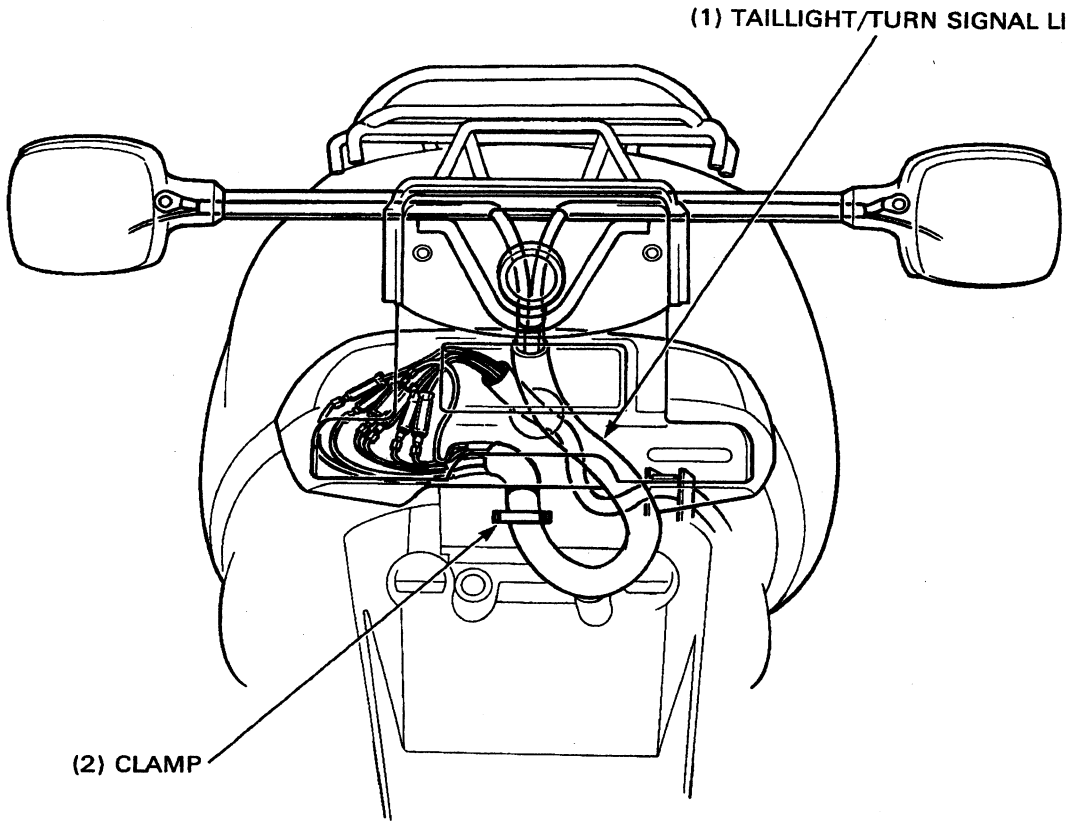
Location	Material	Remarks
Brake cam felt seals Brake cables	Engine oil	
Inside surface of handle grip	Honda Bond A or equivalent	
Air cleaner connecting tube-to-case joint	Semedain #540	
Air cleaner element Engine oil tank	Honda 2-stroke engine oil	

Cable & Harness Routing




(2) THROTTLE CABLE
(1) ALTERNATOR/STARTER MOTOR WIRE HARNESS
(3) OIL INLET TUBE
(6) REAR BRAKE CABLE
(4) CARBURETOR DRAIN TUBE
(5) OIL PUMP CONTROL CABLE


(7) CDI UNIT
(8) BATTERY
(9) FUEL LEVEL SENSOR WIRE
(11) REGULATOR/RECTIFIER
(10) MAIN WIRE HARNESS


(1) TAILLIGHT/TURN SIGNAL LIGHT WIRE
(2) CLAMP

2. Frame/Body Panels/Exhaust System

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 covers, fuel tank and exhaust system. Frame cover installation is in the reverse order of removal, unless noted otherwise.
- When romoving the cover, be careful not to damage any tab or groove of a cover.
- Always inspect the exhaust system for leaks after installation.

Troubleshooting

Excessive exhaust noise
- Broken exhaust system
- Exhaust gas leak

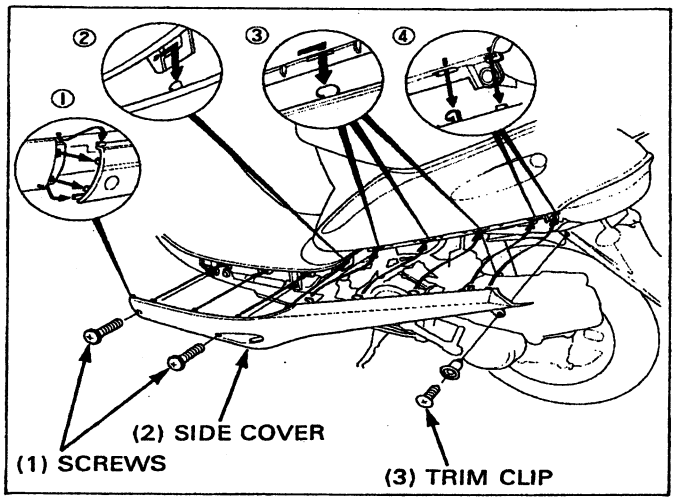
Poor performance
- Deformed exhaust system
- Exhaust gas leak
- Clogged muffler

Side Cover

Remove the trim clip and two screws.
①Release the front tabs of the cover from the front fender while sliding the cover rearward.
②Push the cover rearward and release the four front tabs outward.
③Push the cover rearward and release the three tabs from the frame body cover downward.
④Release the two rear tabs while pulling down the rear of the cover.

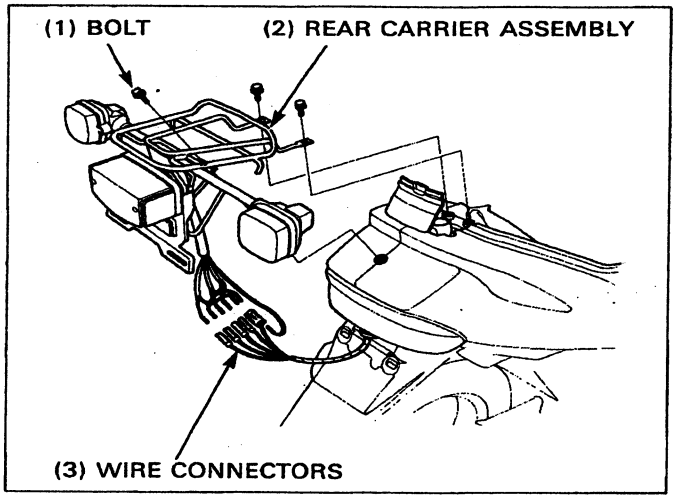
NOTE

Attach the rear of the front fender with the side cover front screw.

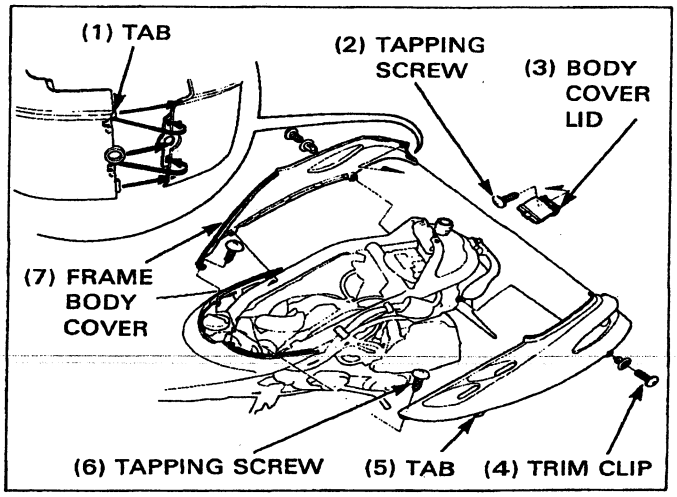


Frame Body Cover

Remove the luggage box (page 2-4).
Disconnect the turn signal light and taillight wire connectors.
Remove the three bolts and the rear carrier assembly.



Remove the side covers.
Remove the center cover (page 2-4).
Remove the two tapping screws and two trim clips.
①Release the front tabs upward.
②Remove the frame body cover rearward.
③Remove the two tapping screws and the body cover lid.
④Pull the left frame body cover back to release the two tabs and separate the left and right frame body covers.

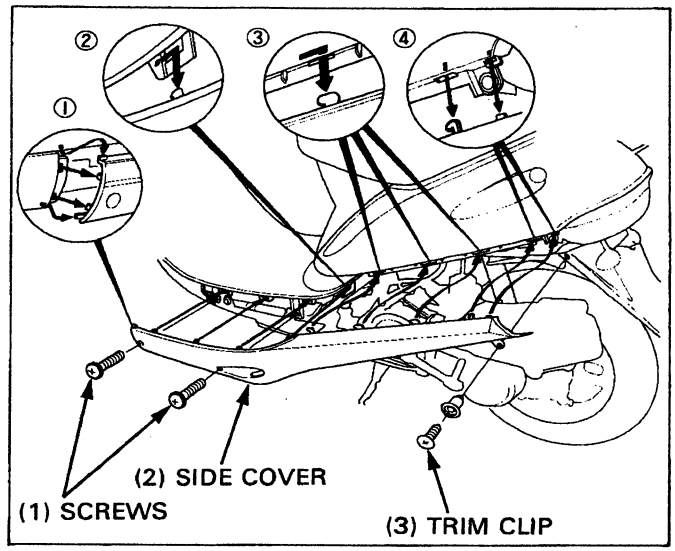


Side Cover

Remove the trim clip and two screws.
①Release the front tabs of the cover from the front fender while sliding the cover rearward.
②Push the cover rearward and release the four front tabs outward.
③Push the cover rearward and release the three tabs from the frame body cover downward.
④Release the two rear tabs while pulling down the rear of the cover.

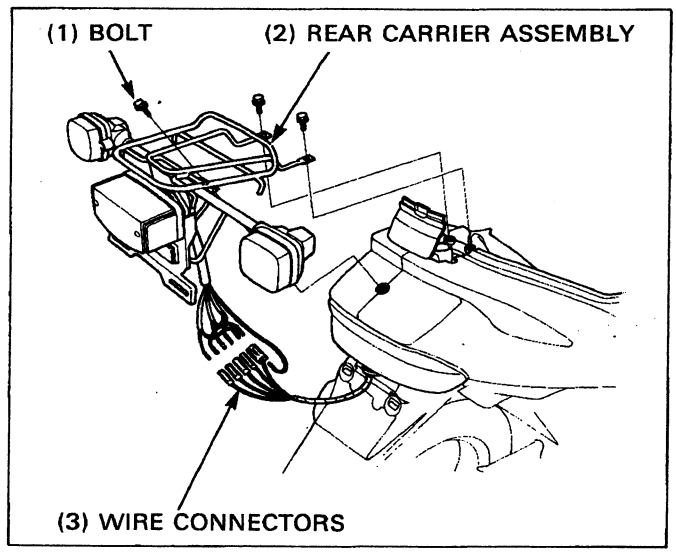
NOTE

Attach the rear of the front fender with the side cover front screw.

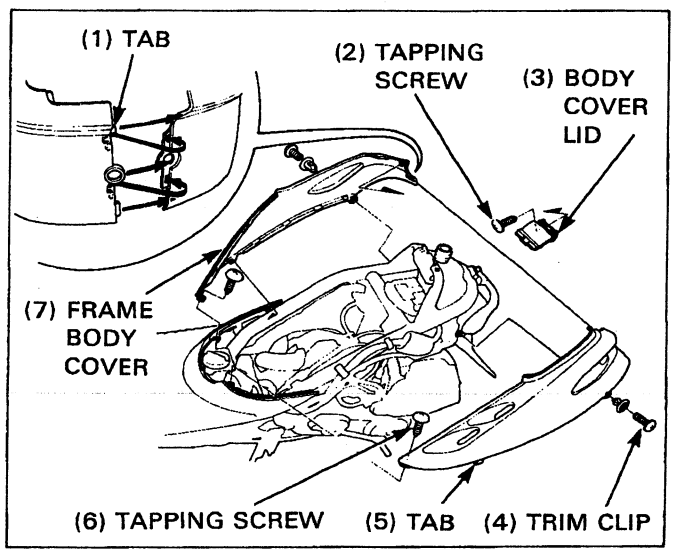


Frame Body Cover

Remove the luggage box (page 2-4).
Disconnect the turn signal light and taillight wire connectors.
Remove the three bolts and the rear carrier assembly.



Remove the side covers.
Remove the center cover (page 2-4).
Remove the two tapping screws and two trim clips.
①Release the front tabs upward.
②Remove the frame body cover rearward.
③Remove the two tapping screws and the body cover lid.
④Pull the left frame body cover back to release the two tabs and separate the left and right frame body covers.



Luggage Box

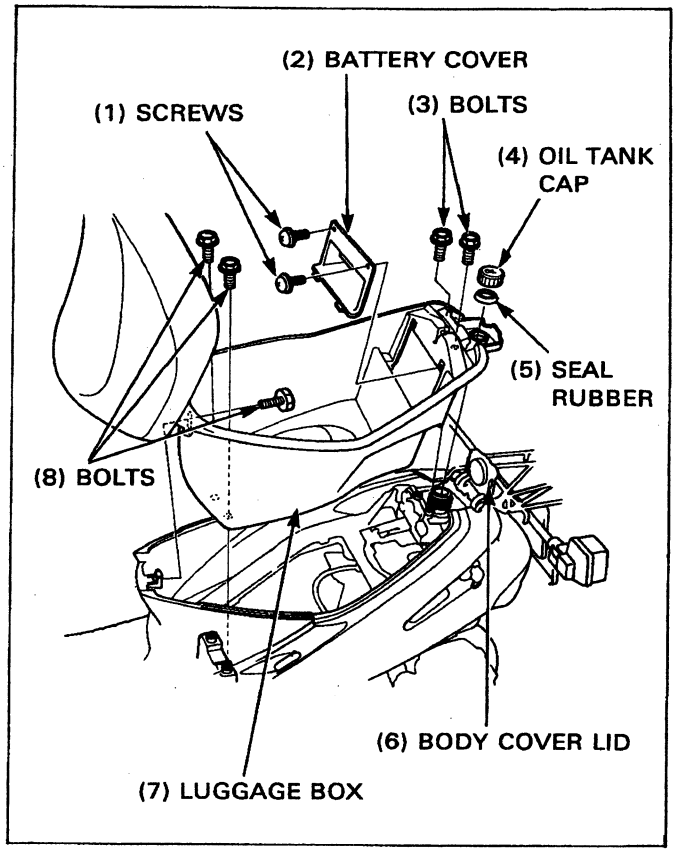
NOTE

- The luggage box can be removed together with the seat.

Open the seat.
Remove the two screws and the battery cover.
Open the body cover lid.
Remove the oil tank cap and seal rubber.
Remove the five bolt and the luggage box.

NOTE

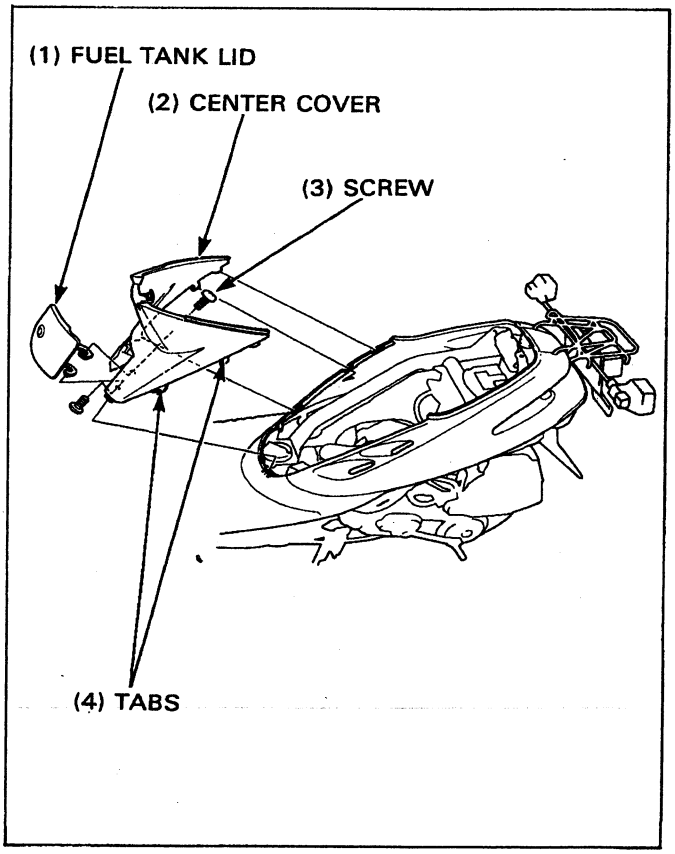
- After removing the luggage box, install the seal rubber and oil tank cap to prevent dirt and dust from entering the oil tank.



Center Cover

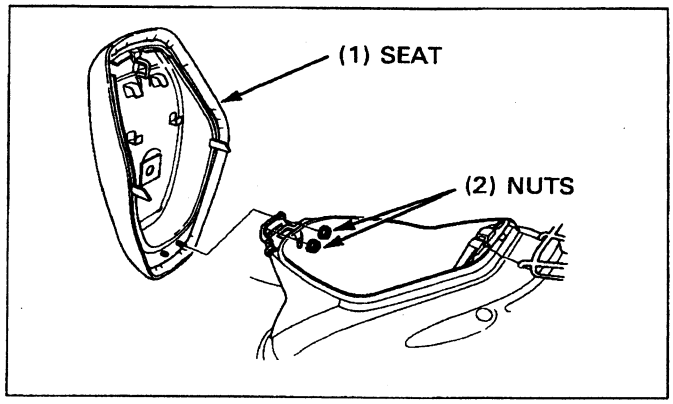
Remove the luggage box.
Slide the center cover upward to release the two tabs from the frame body cover and remove the center cover.

Open the fuel tank lid.
Remove the two screws and the fuel tank lid.



Seat

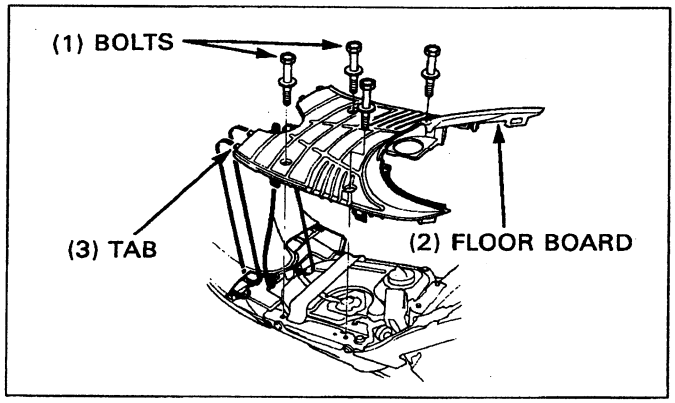
Open the seat.
Remove the two nuts and the seat.



Floor Board

Remove the frame body cover (page 2-3).

Remove the four bolts.
Raise the rear of the floor board slightly, pull the floor board rearward to release the tabs and remove it.

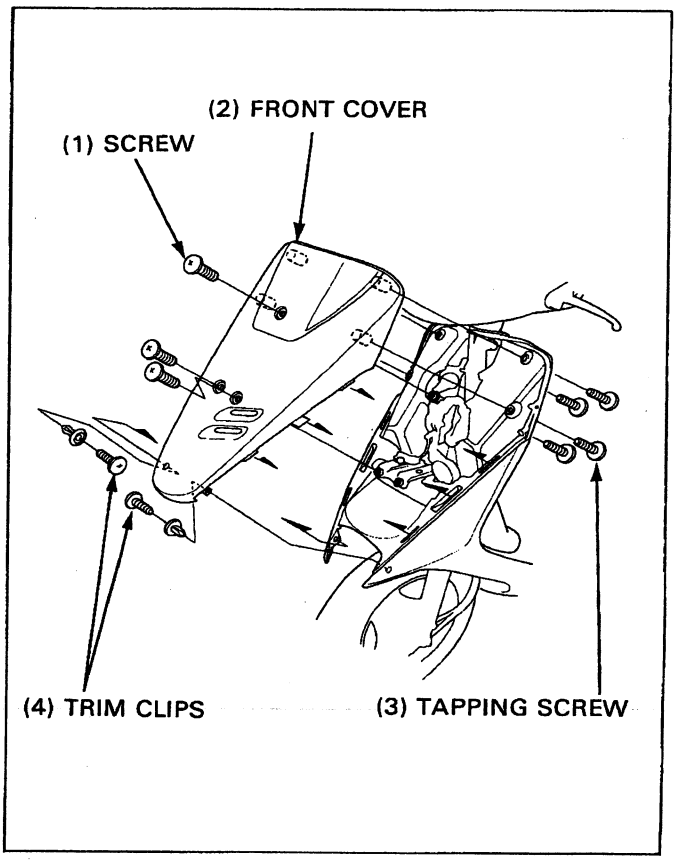


Front Cover

Remove the four tapping screws.
Remove the two trim clips.
Remove the three screws.
Release the tabs while pushing both sides of the cover inward and the remove cover.

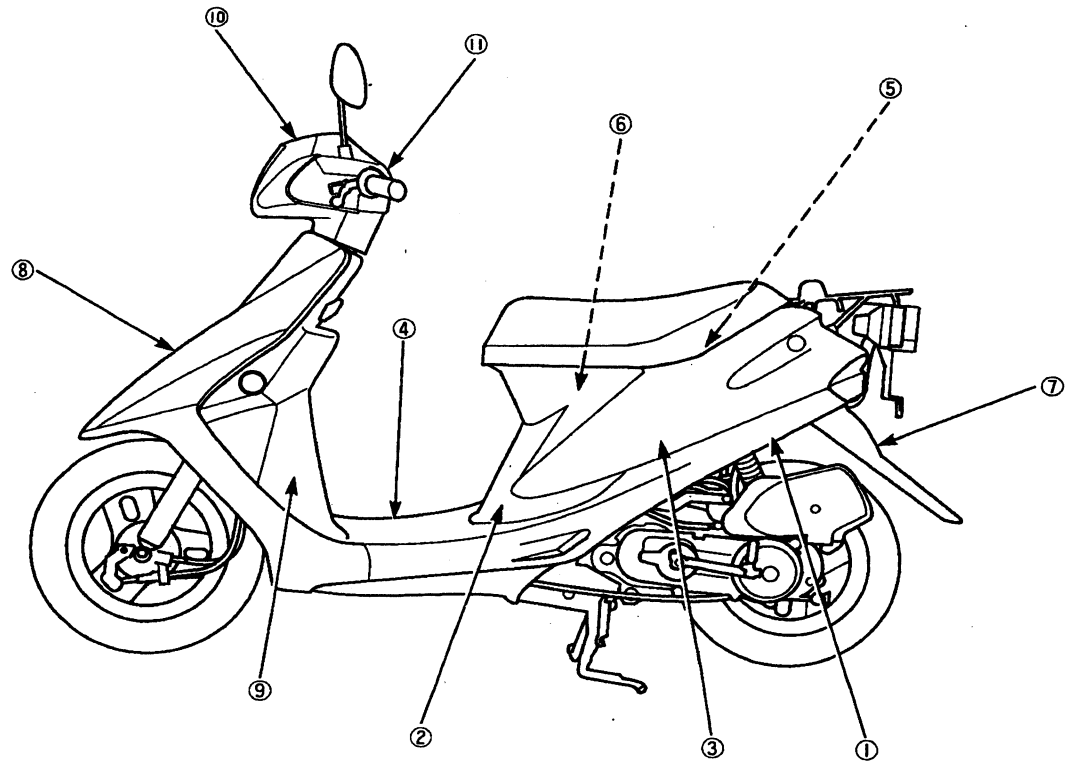
NOTE

- When installing, make sure that the tabs are aligned with the slots properly before tightening the screws.



Frame Cover Removal/Installation

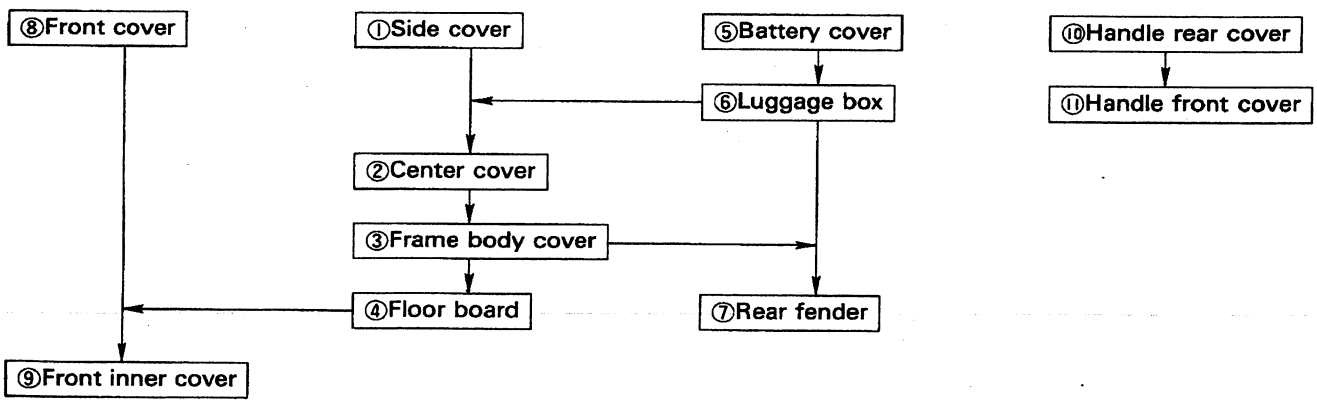
Frame Cover Locations



①Side cover
②Center cover
③Frame body cover
④Floor board
⑤Battery cover
⑥Luggage box
⑦Rear Fender
⑧Front cover
⑨Front inner cover
⑩Handle front cover
⑪Handle rear cover

Frame Cover Removal Chart

• This chart shows removal order of frame covers by means of arrow.



Front Inner Cover

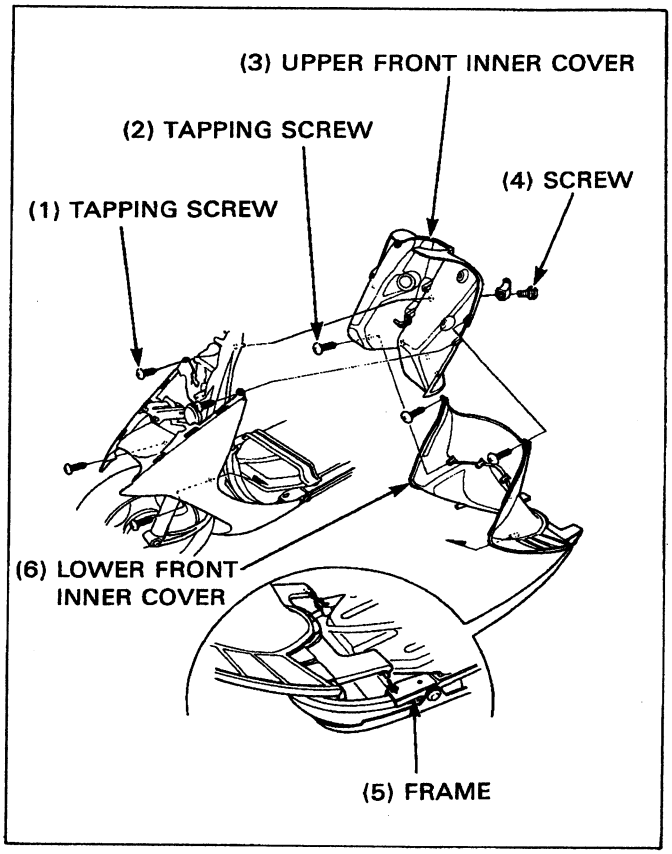
Remove the floor board (page 2-5).
Remove the front cover (page 2-5).

Remove the four tapping screws attaching the inner cover to the front fender.
Remove the screw attaching the inner cover to the frame.
Pull the upper portion of the cover back out of the frame.
Slide the cover upward along the frame and remove it.

Remove the six tapping screws and separate the upper and lower inner covers.

NOTE

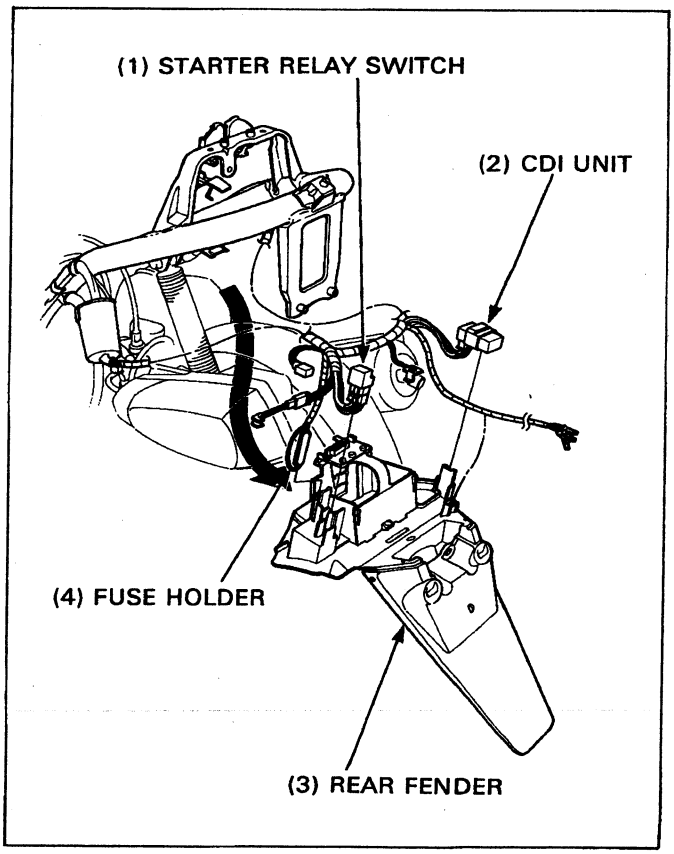
- When installing, align the bosses of the inner cover with the holes in the frame properly.



Rear Fender

Remove the oil tank (page 4-4).
Remove the ignition coil (page 14-6).

Remove the CDI unit, starter relay switch and fuse holder from the rear fender.
Remove the rear fender from the frame.

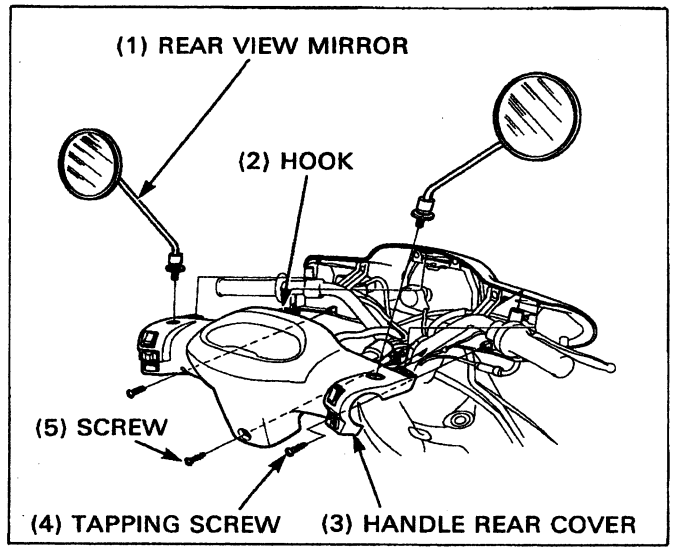


Handle Rear Cover

Remove the rearview mirrors.
Remove the two tapping screws and the screw.
Release the three hooks by pushing down the cover and sliding it rearward.
Remove the cover from the handlebar.

NOTE

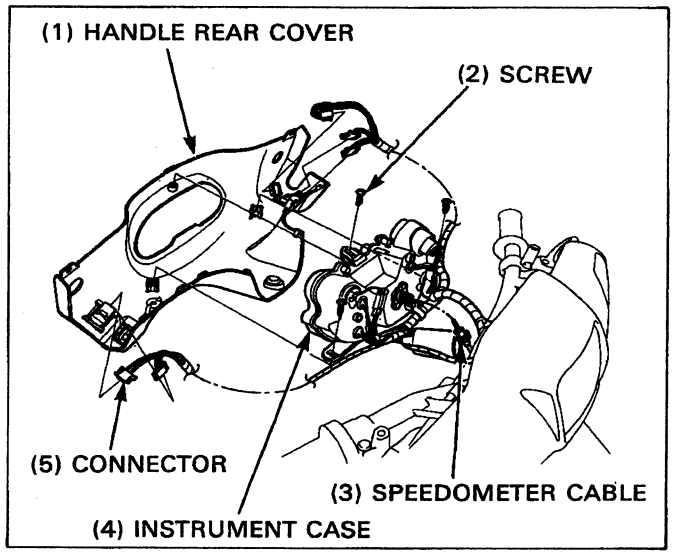
- When installing, be careful not to pinch the wires.



Disconnect the speedometer cable from the speedometer.
Disconnect the five connectors from the handlebar switches.
Remove the three screws and the cover from the instrument case.

NOTE

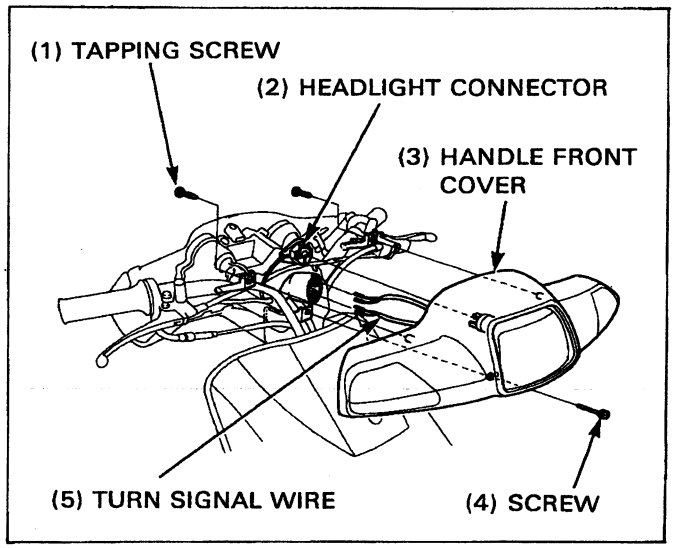
- It is not necessary to remove the handle rear cover from the instrument case to remove the handle front cover.



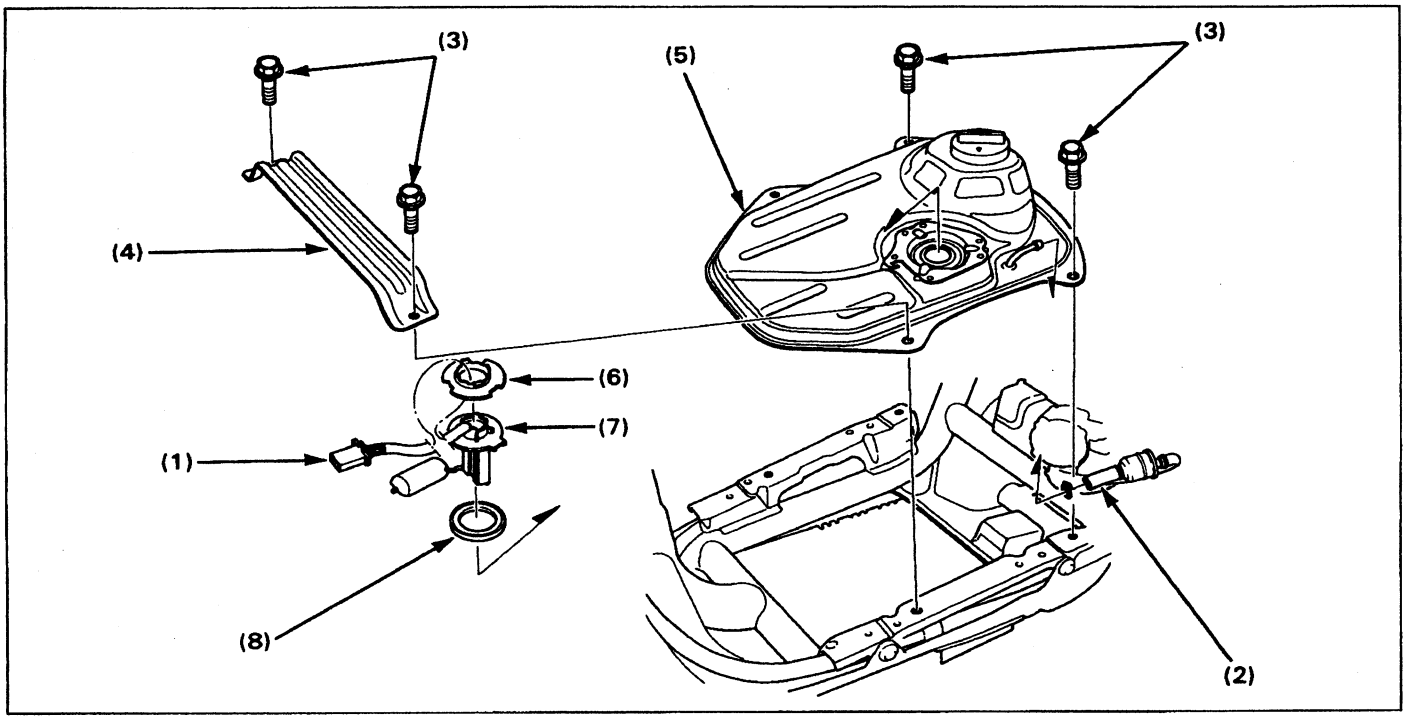
Handle Front Cover

Remove the handle rear cover from the handlebar.

Remove the two tapping screws and the screw.
Disconnect the headlight connector.
Disconnect the turn signal light wire connectors and remove the handle front cover.



Fuel Tank Removal/Installation



⚠ WARNING

- **Gasoline is extremely flammable and is explosive under certain condition. KEEP OUT OF REACH OF CHILDREN.**
- Work in a well ventilated area. Smoking or allowing flames or sparks in the work area or where gasoline is stored can cause a fire or explosion.

Requisite Service

- Front inner cover removal/installation (page 2-6)

	Procedure	Q'ty	Remarks
	Removal Order		Installation is in the reverse order of removal.
	Fuel tank		
(1)	Fuel unit wire connector	1	
(2)	Fuel line	1	NOTE • Plug or clamp the fuel line to prevent gasoline from flowing out.
(3)	Fuel tank mounting bolt	4	
(4)	Floor plate	1	
(5)	Fuel tank	1	
	Fuel level sensor		
(6)	Retainer	1	
(7)	Fuel level sensor	1	
(8)	Seal rubber	1	