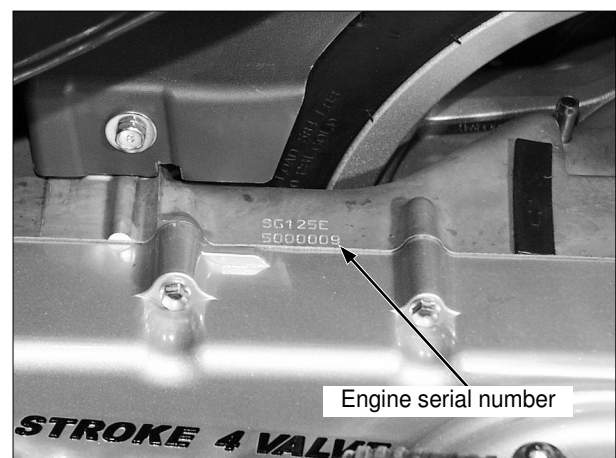
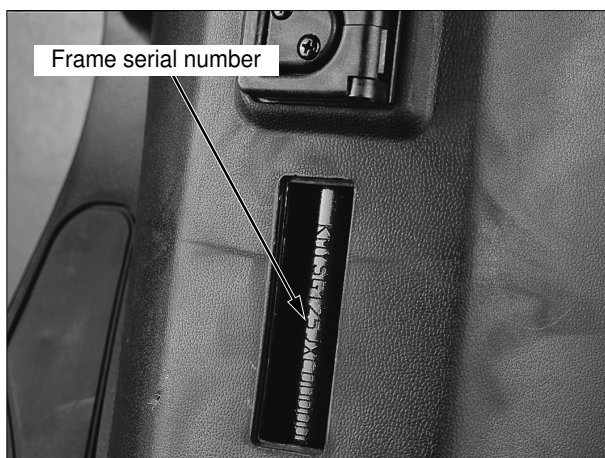


Identification Numbers



Specifications

Item		Specifications
Dimensions	Overall length	1,970mm
	Overall width	700mm
	Overall height	1,110mm
	Wheel base	1,350mm
	Seat height	765mm
	Ground clearance	130mm
	Dry weight	110kg
	Curb weight	240kg
Frame	Type	Underbone
	Front suspension/stroke	Telescopic/97mm
	Rear suspension/stroke	Swing arm/74mm
	Front tire size/type	120/70-13/Tubeless
	Rear tire size/type	130/60-13/Tubeless
	Tire Pressure 1 person Front	1.75kg/ (175kPa)
	Rear	2.00kg/ (200kPa)
	2 person Front	2.25kg/ (225kPa)
	Rear	2.25kg/ (225kPa)
	Front brake	Hydraulic disk
	Rear brake	Drum brake
	Fuel tank capacity Full capacity	7.5
	Reserve capacity	1.2
Engine	Caster angle	25
	Trail	84.7
	Front fork oil capacity	80
	Type	Oil cooled/air cooled 4 cycle SOHC engine
	Cylinders/Arrangement	1 (Single cylinder), front angle 80
	Bore and stroke	56 50.7 mm
	Displacement	124.9
	Compression ratio	10.8 : 1
	Valve train	SOHC chain drive
	Oil capacity	1.1 After disassembly
		0.75 After Oil change
		0.8 After Oil filter change
		0.9 After Oil change with Oil in the Oil hose removed
Engine	Lubrication system	Forced pressure splash type
	Air cleaner type	Wet sump
	Cylinder compression	13.8kg/
	Intake valve: Open	5 BTDC
	Closed	14 ABDC
	Exhaust valve: Closed	18 BBDC
	Closed	1 ATDC
	Valve clearance(cooling-off period)	
	intake	0.12 0.02
	Exhaust	0.12 0.02

Service Information

Item		Specifications
Carburetor	Type/Venturi bore Model mark Choke type Main jet Pilot screw initial setting Float level Idle speed	CV type(vacuum)24.2mm BDS 26 92 H1 Autoby-starter 92.5 3 and 1/4 trust out 17.5 1,600 100(rpm)
Drive Train	Clutch type Primary reduction Secondary reduction	Automatic Transmission 3.231(42/14) 2.786(39/14)
Electrical Systems	Ignition system Ignition timing F mark Full advance AC generator capacity Battery type/capacity Spark plug Spark plug gap Fuse capacity starting system Headlight(high/low) Position light Turn signal light(Fr/Rr) Tail/stop light High-beam indicator Turn signal indicator Speedometer lamp Trunk lamp	C.D.I. Ignition 8 BTDC/1,600(rpm) 19 125W/5,000(rpm) Closed type (MF)12V 6AH CR8EH-9 0.8-0.9mm(0.031-0.035in) 15A Kick/starter motor 12V 35/35W 12V 3.4W 12V 10W 4 12V 21 / 5W 12V 3.4W 12V 3.4W 2 1.7W 2 1.4W 1

Torque Values

Engine

Item	Q'ty	Thread dia(mm)	Torque value kg.m(N.m,ft-lb)	Remarks
Oil filter cap	1	20	1.5(15, 11)	Apply engine oil
Valve adjust screw lock nut	4	5	1.1(11, 8)	
Kick starter pedal bolt	1	6	1.2(12, 8)	
Flywheel bolt	1	12	5.5(55, 40)	
Drive face bolt	1	12	5.5(55, 40)	
Clutch outer bolt	1	12	5.5(55, 40)	
Cam chain tensioner pivot bolt	1	8	1.0(10, 7)	
Spark plug	1	12	1.2(12, 9)	Apply engine oil
Cam sprocket bolt	2	6	1.2(12, 9)	
Camshaft holder nut	4	8	2.0(20, 14)	Apply engine oil
Cam chain tensioner mounting bolt	2	6	1.2(12, 9)	
Cam chain tensioner sealing screw	1	6	0.4(4, 2.9)	
Cylinder head cover bolt	4	6	1.0(10, 7)	
Transmission cover bolt	8	6	1.2(12, 8)	
Transmission cover drain bolt	1	8	1.0(10, 7)	
Transmission cover check bolt	1	8	0.9(9, 6)	
Cooling fan bolt	3	6	1.0(10, 7)	
Starting clutch nut	1	22	9.5(95, 67)	
Starter motor terminal nut	2	6	0.9(9, 6)	
Radiator hose eye joint bolt	4	12	3.2(32, 23)	
Radiator hose nut	2	14	3.2(32, 23)	

Frame

Item	Q'ty	Thread dia(mm)	Torque value kg.m(N.m,ft-lb)	Remarks
Steering stem lock nut	1	26	7.5(75, 55)	Initial torque
Steering top thread nut	1	26	0.3(3, 2)	
Handle post nut	1	10	6.0(60, 44)	
Front fork bottom bridge bolt	4	10	7.5(75, 55)	Apply locking agent
Front fork socket bolt	2	8	2.0(20, 14)	
Front axle nut	1	12	5.5~6.5(55~65, 40~47)	
Front brake disk bolt	3	8	3.9(39, 28)	Apply locking agent
Ignition coil bolt	1	5	0.5(5, 4)	
Rear axle nut	1	14	6.0-8.0(60-80, 43-58)	
Engine hanger nut	2	10	7.3(73, 53)	
Engine hanger plate bolt	6	10	2.7(27, 20)	

Service Information

Item	Q'ty	Thread dia(mm)	Torque value kg.m(N.m,ft-lb)	Remarks
Brake caliper bracket bolt	2	8	2.7(27, 20)	Apply locking agent
Brake caliper bleeder valve	1	8	0.6(6, 4.3)	
Brake caliper slide pin (socket bolt)	1	8	2.3(23, 17)	
Brake caliper pin bolt	1	8	1.8(18, 13)	
Brake pad pin bolt	2	8	1.8(18, 13)	
Master cylinder reservoir cap	4	4	0.13(1.3, 0.94)	
Brake hose bolt	2	10	3.5(35, 25)	
Brake lever pivot bolt	1	6	1.0(10, 7)	
Brake lever pivot lock nut	1	6	1.0(10, 7)	
Rear shock-absorber upper bolt	1	10	2.7(27, 20)	
Rear shock-absorber lower bolt	1	10	4.0(40, 29)	Apply locking agent
Rear shock-absorber damper rod lock nut	2	10	3.8(38, 27)	

Torque values listed above are for specific tightening points. Torque values for other items are listed in the following table.

SH(Small Head): Indicates 6mm bolt of 8mm flange head.



Item	Torque Value			Item	Torque Value		
	N.m	Kg-m	ft-lb		N-.m	Kg-m	ft-lb
5mm bolt, nut	5	0.5	4	5mm screw	4	0.4	3
6mm bolt, nut	10	1.0	7	6mm screw	9	0.9	7
8mm bolt, nut	22	2.2	16	6mm flange bolt, nut	9	0.9	7
10mm bolt, nut	35	3.5	25	6mm flange bolt, nut	12	1.2	9
12mm bolt, nut	55	5.5	40	8mm flange bolt, nut	27	2.7	20
				10mm flange bolt, nut	40	4.0	29

Symbols/Abbreviations

The following symbols are used in this manual to represent job-related warnings or cautions.

Symbol	Meaning	Symbol	Meaning
CAUTION	Indicates dangerous area. Serious accident may result if instructions are not followed.	WARNING	Indicates important work. Minor injury or vehicle part damage may result if instruction are not followed.
		NOTE	Indicates general safety matters. Provides safety and appropriate handling procedures.

The following symbols indicate oil adding, oil change, or parts.

Symbol	Meaning
 OIL	Add oil. If there is no specific oil indicated, use the designated or recommended engine oil.
 GREASE	Apply grease
(3-1)	Indicates reference page.(example: Refer to page 3-1)

The following abbreviations are used in this manual.

ASS Y	Assembly
L.	Left
R.	Right

Cable & Harness Routing

Note the following when routing cables and wire harnesses:

A loose wire, harness or cable can be safety hazard. After clamping, check each wire to be sure it is secure.

Do not squeeze wires against the weld or its clamp.

Secure wires and wire harnesses to the frame with their respective wire bands at the designated locations. Tighten the bands so that only the insulated surfaces contact the wire or wire harnesses.

Route harnesses so they are neither pulled tight nor have excessive slack.

Protect wires and harnesses with electrical tape or tube if they contact a sharp edge or corner. Clean the attaching surface thoroughly before applying tape.

Do not use a wire or harness with a broken insulator. Repair by wrapping them with protective tape or replace them.

Route wire harnesses to avoid sharp edges or corners.

Avoid the projected ends of bolts and screws.

Keep wire harnesses away from the exhaust pipes and other hot parts.

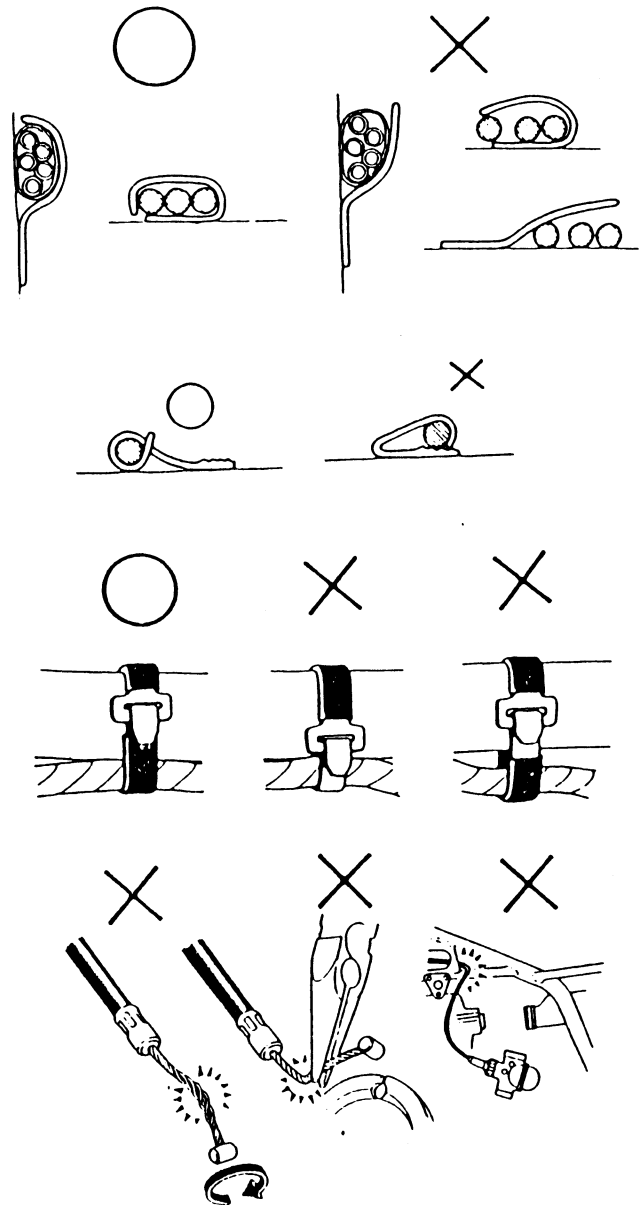
Be sure grommets are seated in their grooves properly.

After clamping, check each harness to be certain that it is not interfering with any moving or sliding parts.

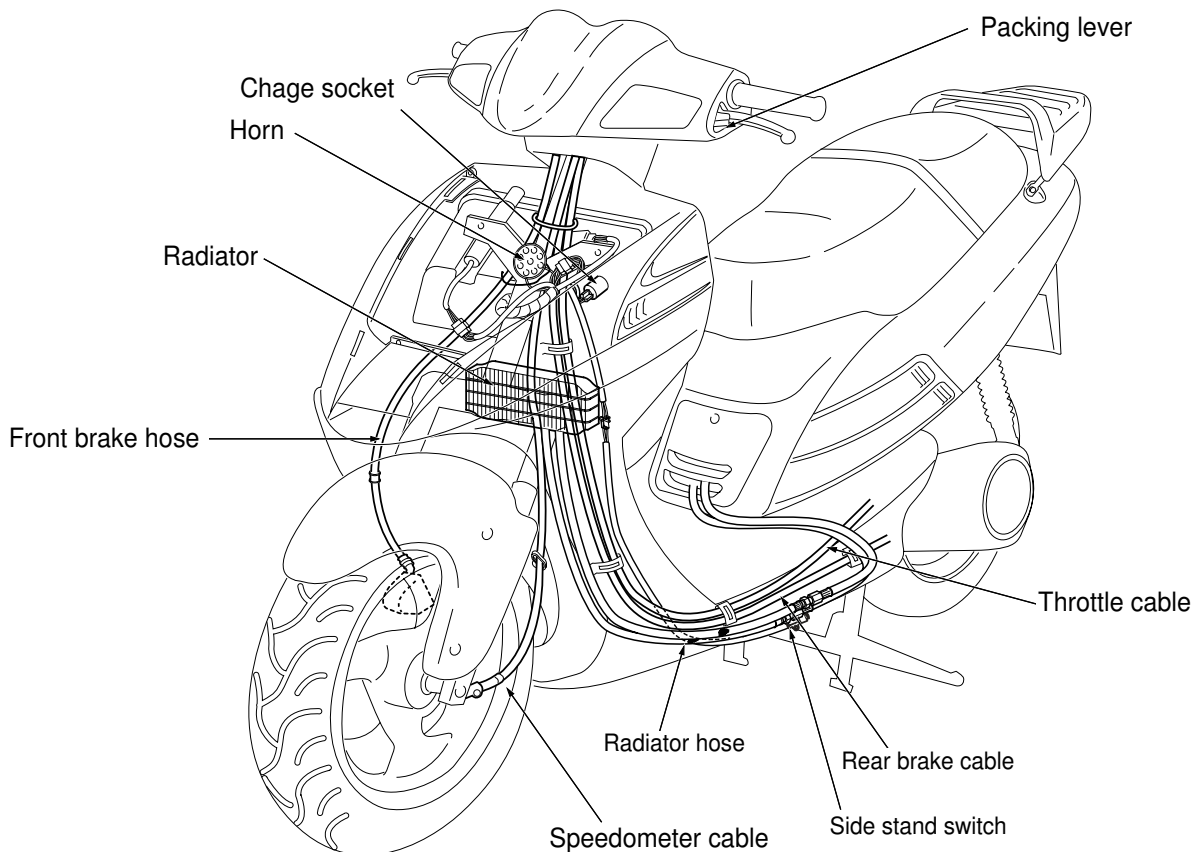
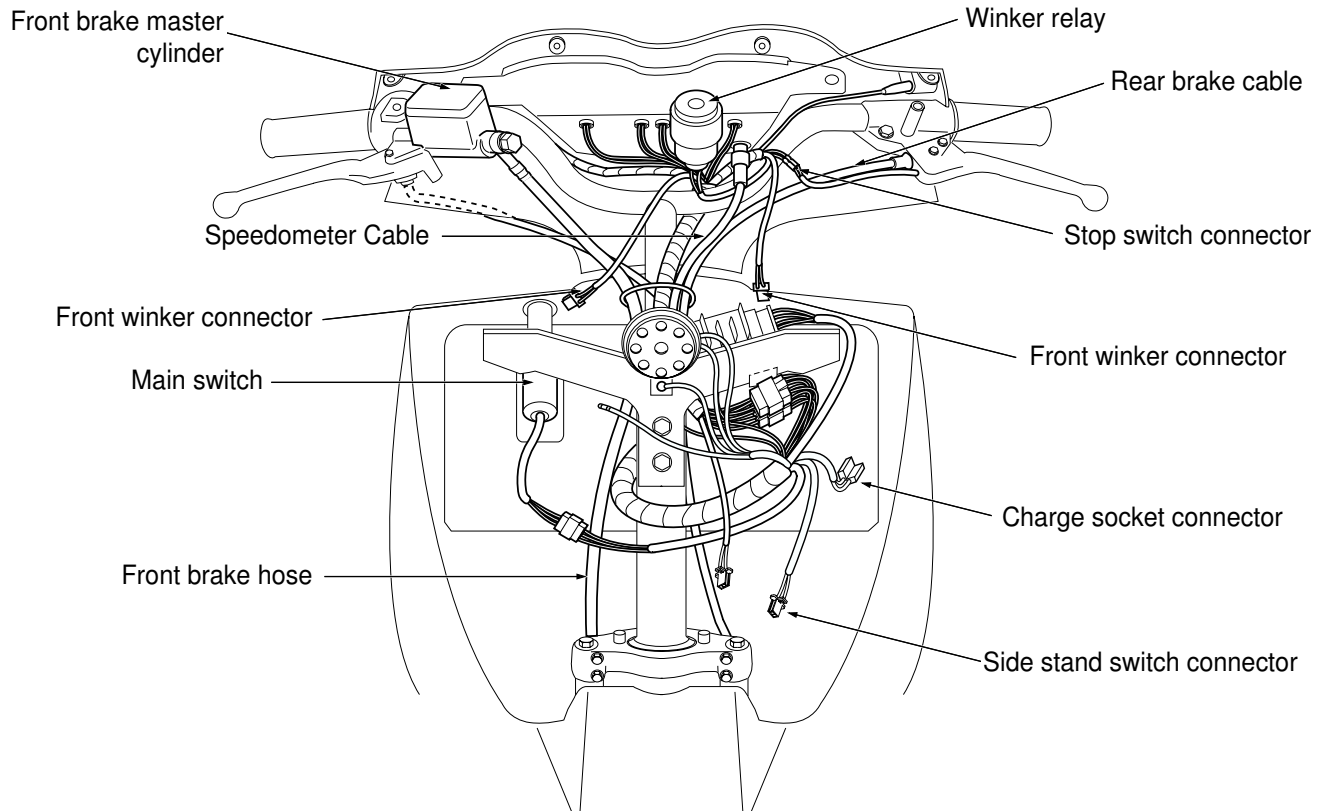
After routing, check that the wire harnesses are not twisted or kinked.

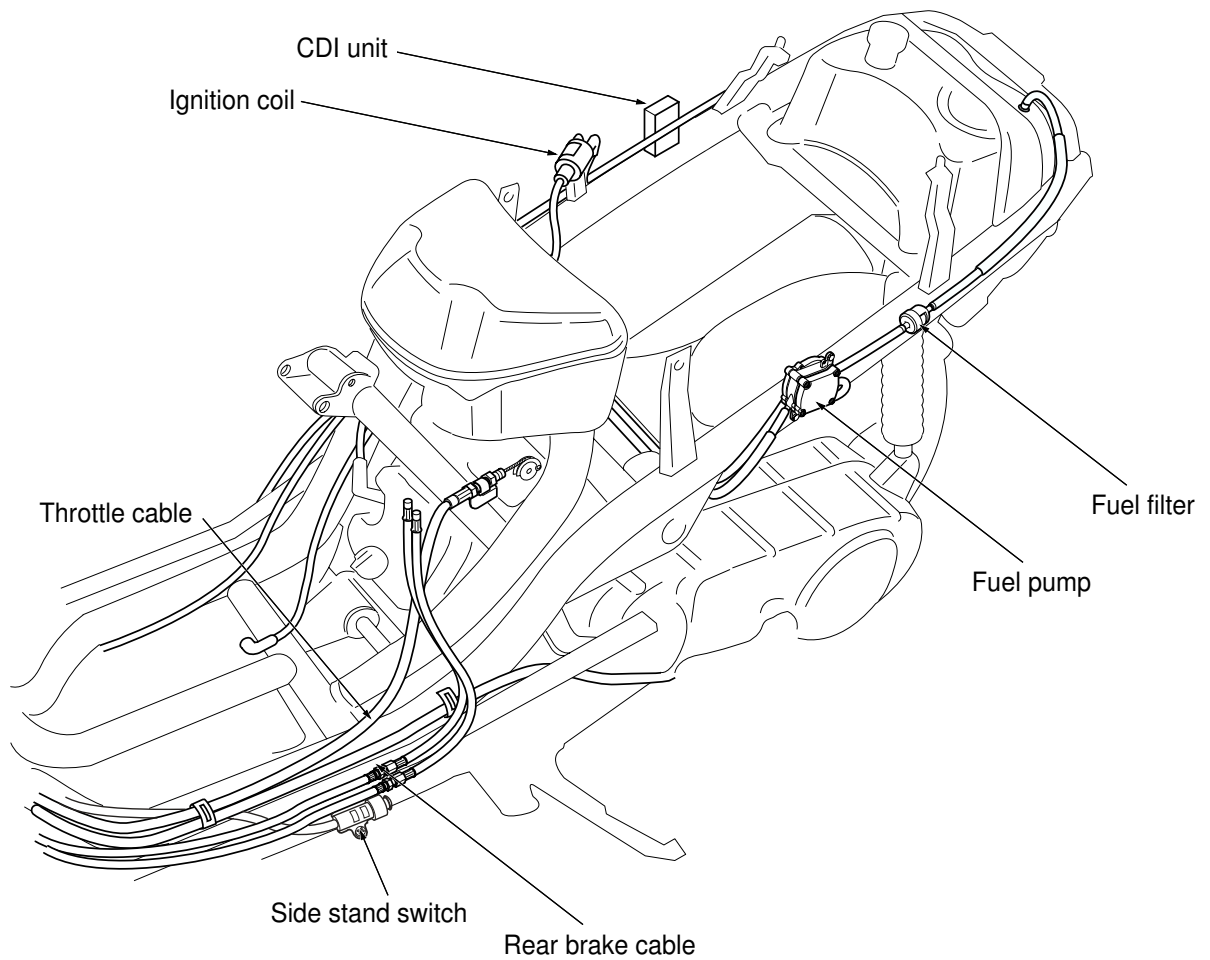
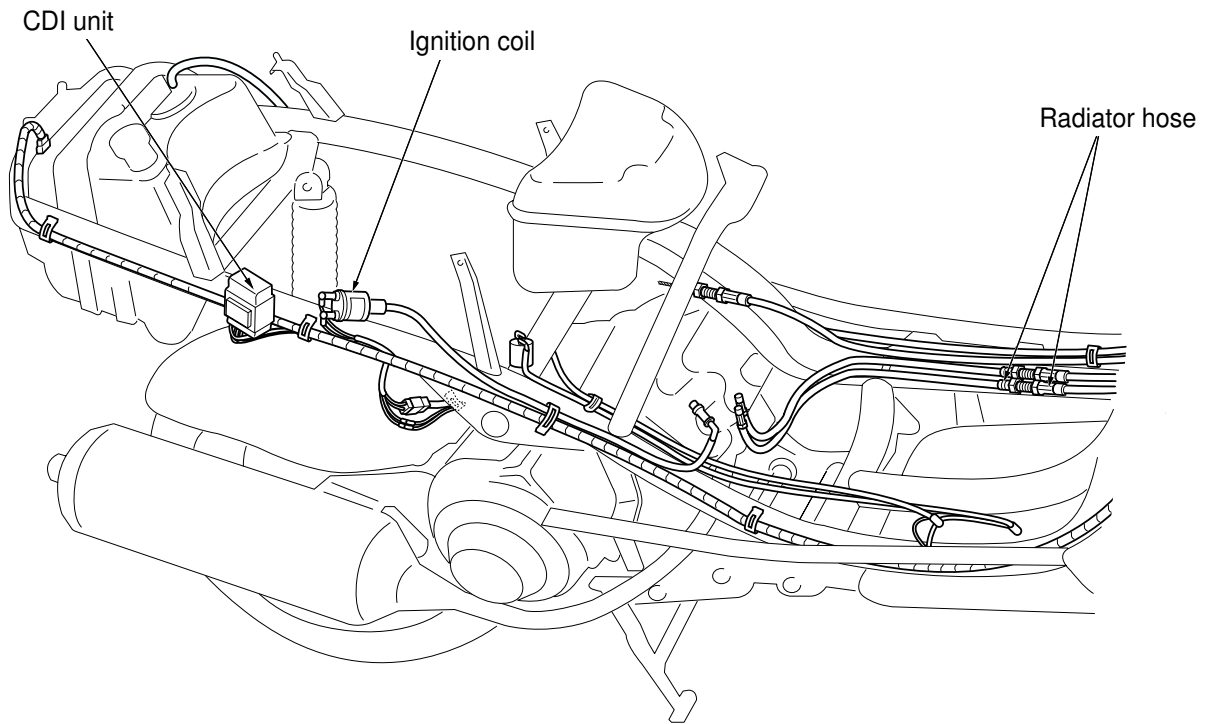
Wire harnesses routed along the handlebars should not be pulled taut, have excessive slack, be pinched by or interfere with adjacent or surrounding parts in all steering positions.

Do not twist or band the cable excessively. Distorted or damaged cables may lead to mechanical malfunctions or other damages.



: Correct
: Incorrect





2. Lubrication

Service information	2-1	Oil Filter Element Change	2-4
Troubleshooting	2-2	Oil Pump	2-4
Engine Oil Level Check	2-3	Radiator	2-7
Engine Oil Change	2-3	Lubrication Points	2-9

Service Information

General Safety

WARNING

The exhaust gas contains poisonous substance. Do not keep engine idling in a closed or poorly ventilated place for a long period of time.

Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. It is desirable not to handle used oil frequently; however, wash your hands thoroughly with soap and water immediately after handling the used oil.

The oil pump can be serviced without removing the engine from the frame.

Engine Oil

Oil capacity	1.1 ℓ (After disassembly) 0.75 ℓ (After Oil change) 0.8 ℓ (After Oil filter change) 0.9 ℓ (After Oil change with Oil in the Oil hose removed)	
Oil Recommendation	API service classification: SE, SF, SH grade Viscosity: SAE10W-30 (Use appropriate type of oil with viscosity satisfying the atmospheric temperature in your riding area based on the table shown on the right side.)	<p>The chart shows temperature ranges on the x-axis (10, 0, 10, 20, 30, 40 °C) and corresponding oil grades on the y-axis. The grades are: 10W (10-0°C), 20W (0-10°C), 30 (10-20°C), 40 (20-30°C), 20W 50 (20-40°C), 20W 40 (20-30°C), 10W 40 (10-30°C), and 10W-30 (10-30°C). Arrows indicate the recommended oil grade for each temperature range.</p>

Oil Pump

Unit: mm(in)

Item	Standard value	Tolerance
Pump body clearance	0.08 0.17(0.003-0.007)	0.23(0.009)
Rotor tip clearance	0.03 0.13(0.001-0.005)	0.18(0.007)
Pump side clearance	0.04 0.09(0.002-0.004)	0.12(0.005)

Torque Values

Oil filter screen cap	1.5kg m, (15N m, 11ft lb)
Oil filter cover bolt	1.1kg m, (11N m, 8ft lb)
Oil pump mounting bolt	1.1kg m, (11N m, 8ft lb)

Troubleshooting

Oil level too low - high oil consumption

- External oil leaks
- Worn piston rings
- Worn valve guide or seal



Oil contamination

- Oil or filter not changed often enough
- Head gasket faulty
- Worn piston rings

Low oil pressure

- Oil level low
- Pressure relief valve stuck open
- Plugged oil pick-up screen
- Oil pump worn
- External oil leaks

High oil pressure

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

No oil pressure

- Oil level low
- Oil Pump drive gear broken
- Oil pump faulty
- Internal oil leakage

Engine Oil Level Check

Erect the motorcycle on the main stand.

Warm up the engine to heat the engine oil to an appropriate level.

Stop the engine, and check the oil level line on the sight-glass installed on the L. crank case cover.

If the oil level is between the lower and higher sight-glass oil level line, oil level is satisfactory. If the oil level is below or near the lower level mark, add the recommended engine oil.



Sight-glass

Engine Oil Change

NOTE

To completely and rapidly drain engine oil, warm up engine and erect the motorcycle on its side stand.

Loosen the oil drain plug bolt and drain engine oil.

Operate the kick starter arm several times to remove the remaining oil from the engine.

Tighten the oil drain plug bolt.

Torque value: 2.0-3.0kgf · m



Drain plug bolt

CAUTION

It is extremely important to replace oil filter or clean the oil filter screen at the first maintenance interval (after 1,000Km).

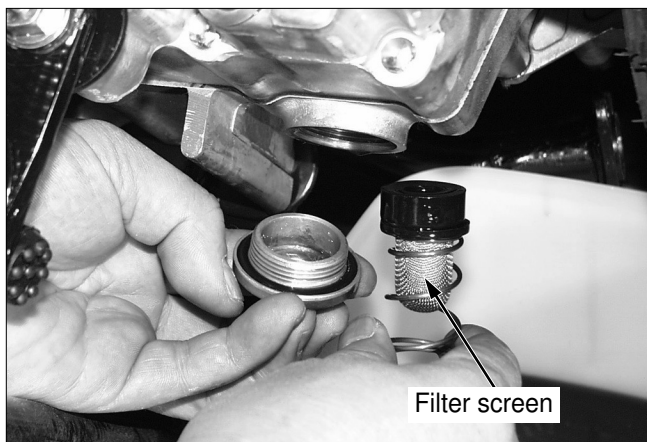
Clean the oil filter screen every 4,000Km.

Clean the filter screen with fresh cleaning oil.

Check the hole cap O-ring for satisfactory condition.

Tighten the hole cap with specified tightening torque.

Torque value: 1.5kgf · m



Filter screen

Loosen the special screw, remove the plug maintenance cover.

Fill the recommended oil after opening oil filter cap of cylinder head cover.

Oil Capacity: 1.1 ℓ (After disassembly)

0.75 ℓ (After Oil change)

0.8 ℓ (After Oil filter change)

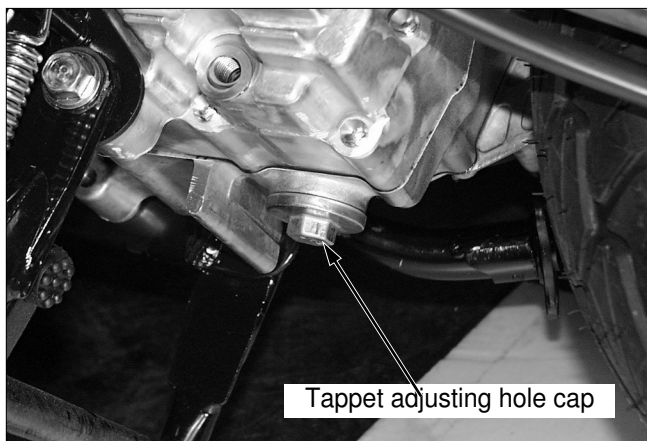
0.9 ℓ (After Oil change with Oil in the Oil hose removed)

API service classification: SE, SF, SH grade

Start the engine and keep it idle for a few minutes.

Stop the engine and check the oil level. If the oil level is low, add the recommended engine oil.

Check on oil leaks.



Tappet adjusting hole cap

Oil Filter Element Change

Drain engine oil. (2-3)

Remove the oil filter cover bolts, filter cover, filter element and spring.

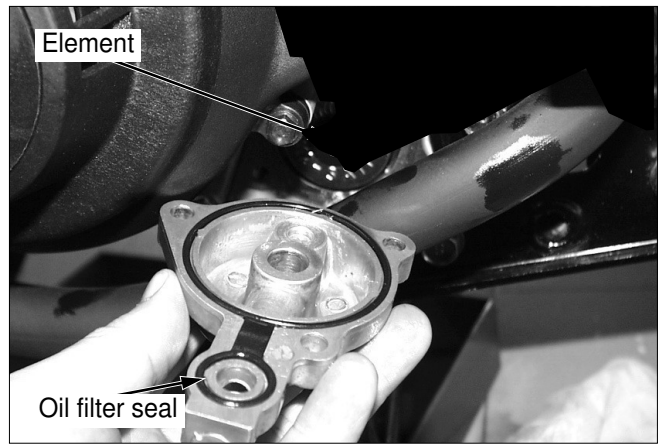
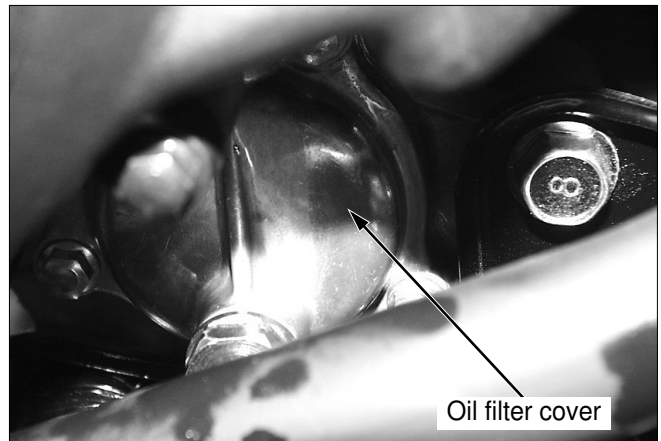
Change the oil filter element with a new one.

Check the relief valve inside the oil filter cover for satisfactory operation.

Check if the oil filter seal is in good condition.

Assemble the filter element spring and filter cover, and tighten bolts.

Torque value: Oil filter cover 1.1kg-m(11N.m.8ft-lb)



Oil Pump

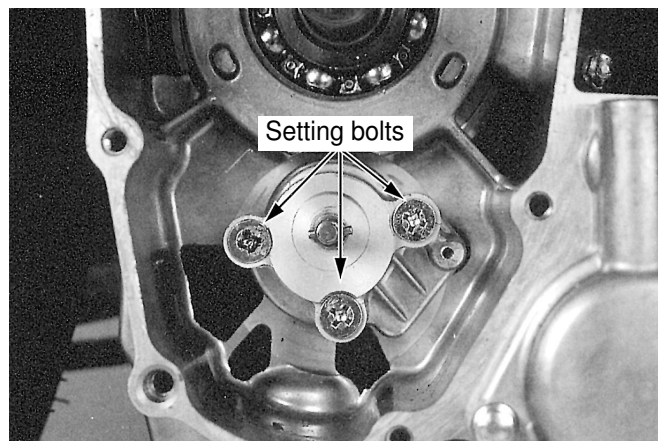
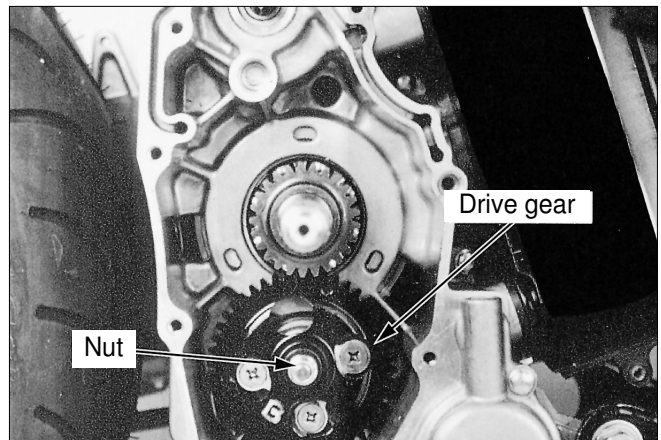
Remove the following parts:

- Luggage box (4-5)
- Rear cushion bolt(6-2)
- RH. floor side cover(4-5)
- Exhaust muffler(4-9)
- Center cover (4-4)
- Shroud (8-2)
- Cooling fan(8-2)
- R. Crank cover (8-4)
- A.C. generator (8-2)
- Starter driven gear and reduction gear (8-5)
- Starter clutch (8-6)

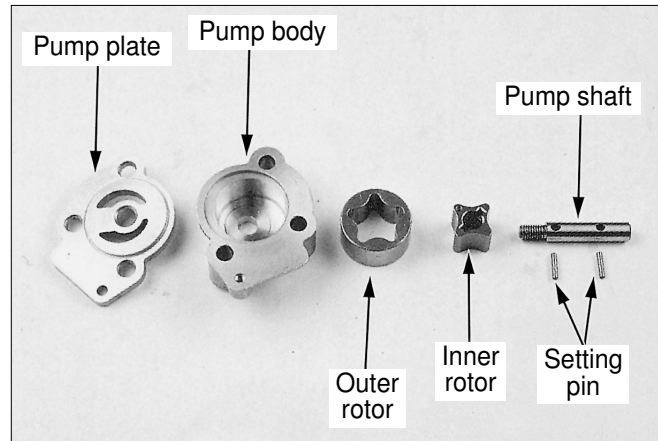
Loosen the oil pump drive gear setting nuts.

Remove the oil pump drive gear.

Remove the oil pump driven gear.



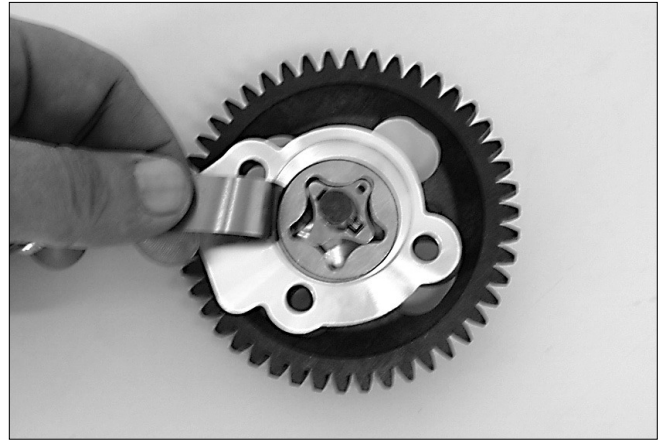
Remove the oil pump.
Clean the oil pump body, inner and outer rotors with fresh cleaning oil.



Inspection

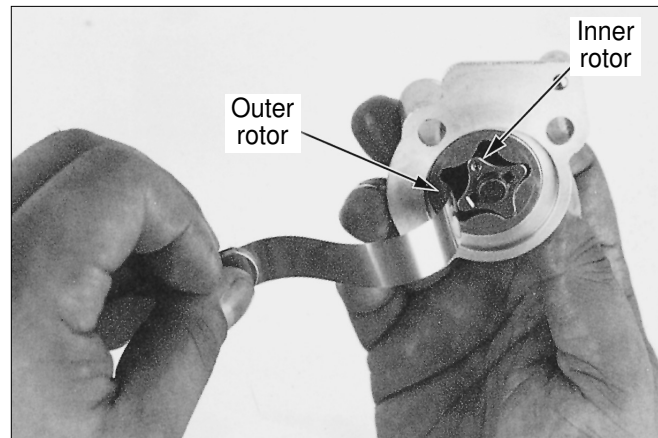
Assemble the inner and outer rotors to the oil pump
Measure the pump body clearance.

Service limit: 0.23mm (0.009in)



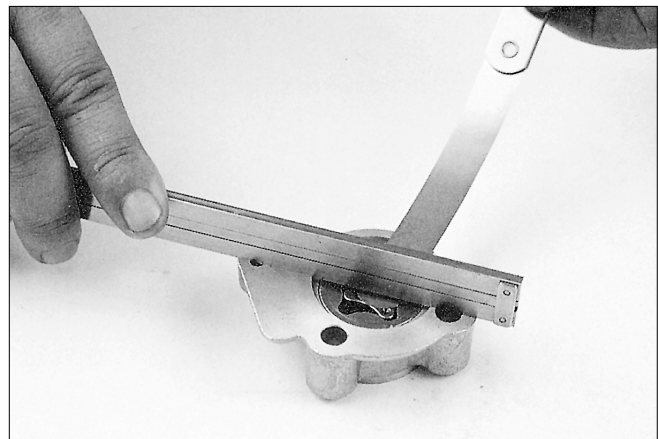
Measure the rotor tip clearance.

Service limit: 0.18mm (0.007in)



Measure the pump side clearance.

Service limit: 0.12mm (0.005in)



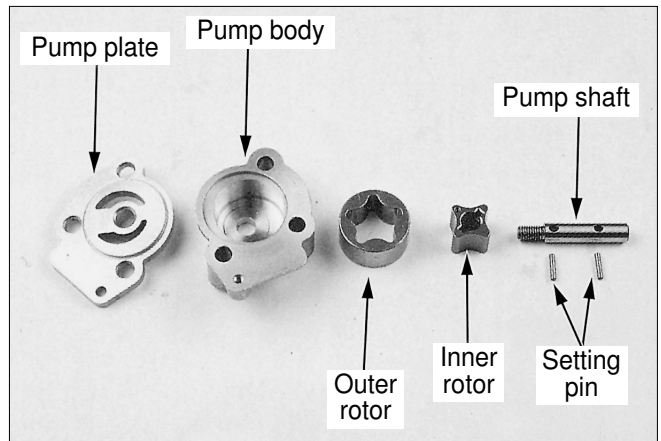
Removal/Installation

Remove the inner and outer rotors from the pump body.

Clean all parts with fresh cleaning oil.

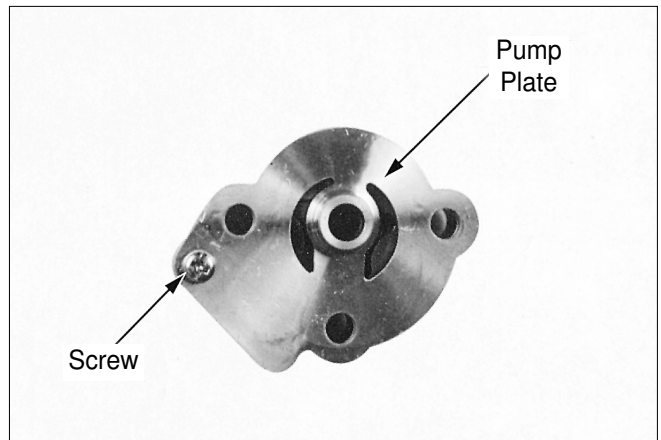
Install the inner and outer rotors.

Assemble the pump shaft with setting pins.



Attach the oil pump plate to the pump body.

Tighten screws.

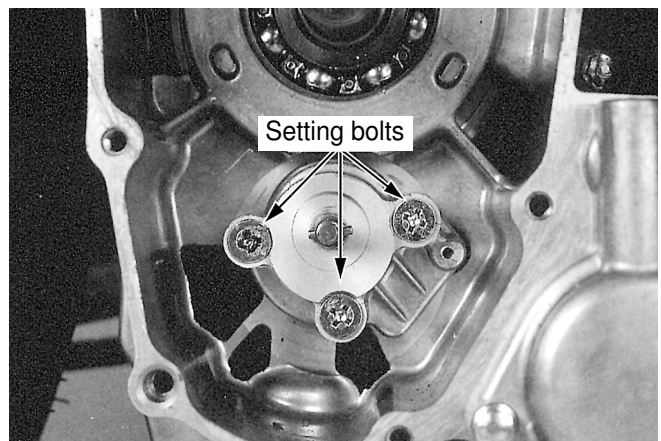


Installation

Assemble the oil pump to the R. crank case cover.

Install the following parts.

- Oil pump drive gear and driven gear
- Starter clutch
- Starter driven gear and reduction gear
- A.C. generator
- R. crank case cover
- Shroud and cooling fan
- Center cover
- Body cover
- Luggage box



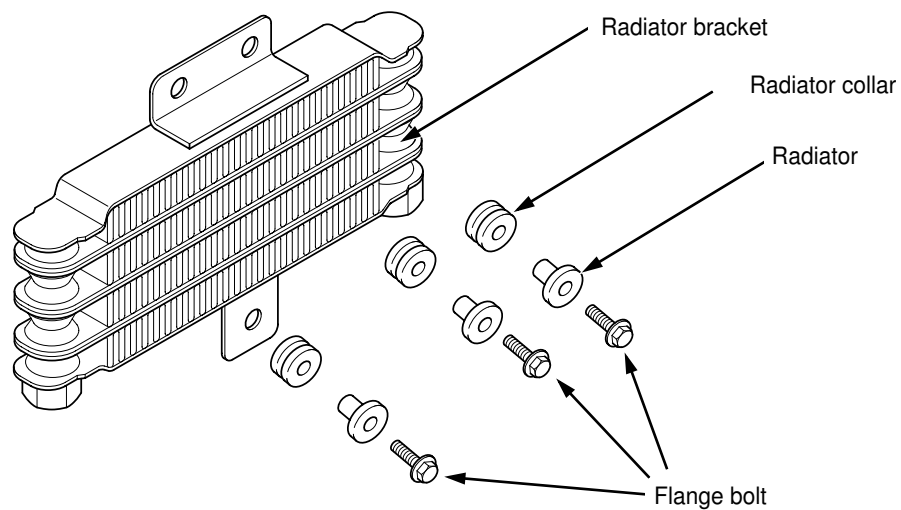
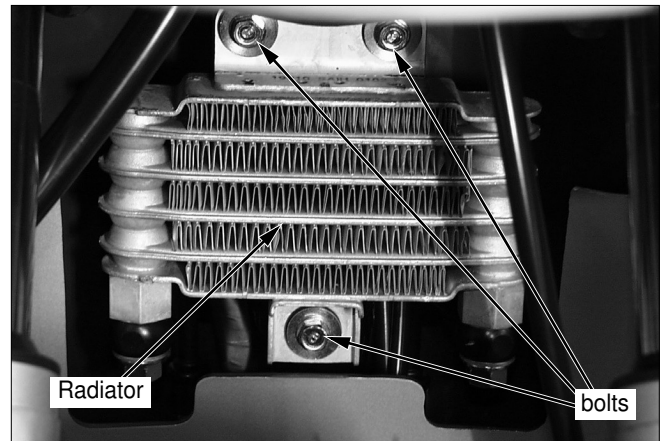
Radiator

Removal/Installation

Remove the front wheel.

Remove the front cover, front side cover and inner box.

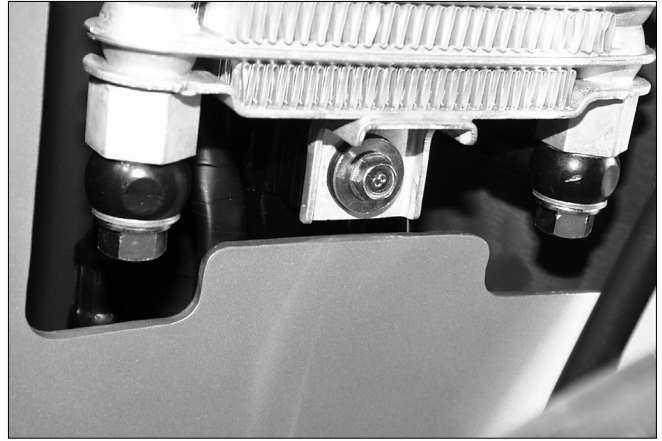
Loosen the flange bolt(3EA), oil bolt and remove the radiator from the main pipe bracket.



Lubrication

Inspection

Check the damage or oil leaks from the radiator.



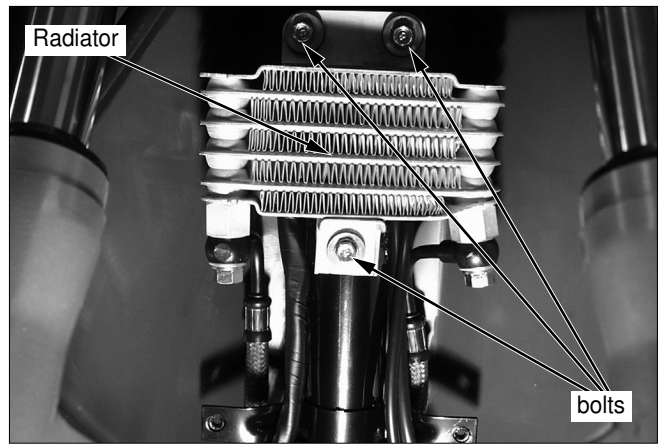
Radiator Installation

Assemble the radiator to the main pipe bracket.

Tighten the oil bolt.

Install the inner box.

Install the front side cover.

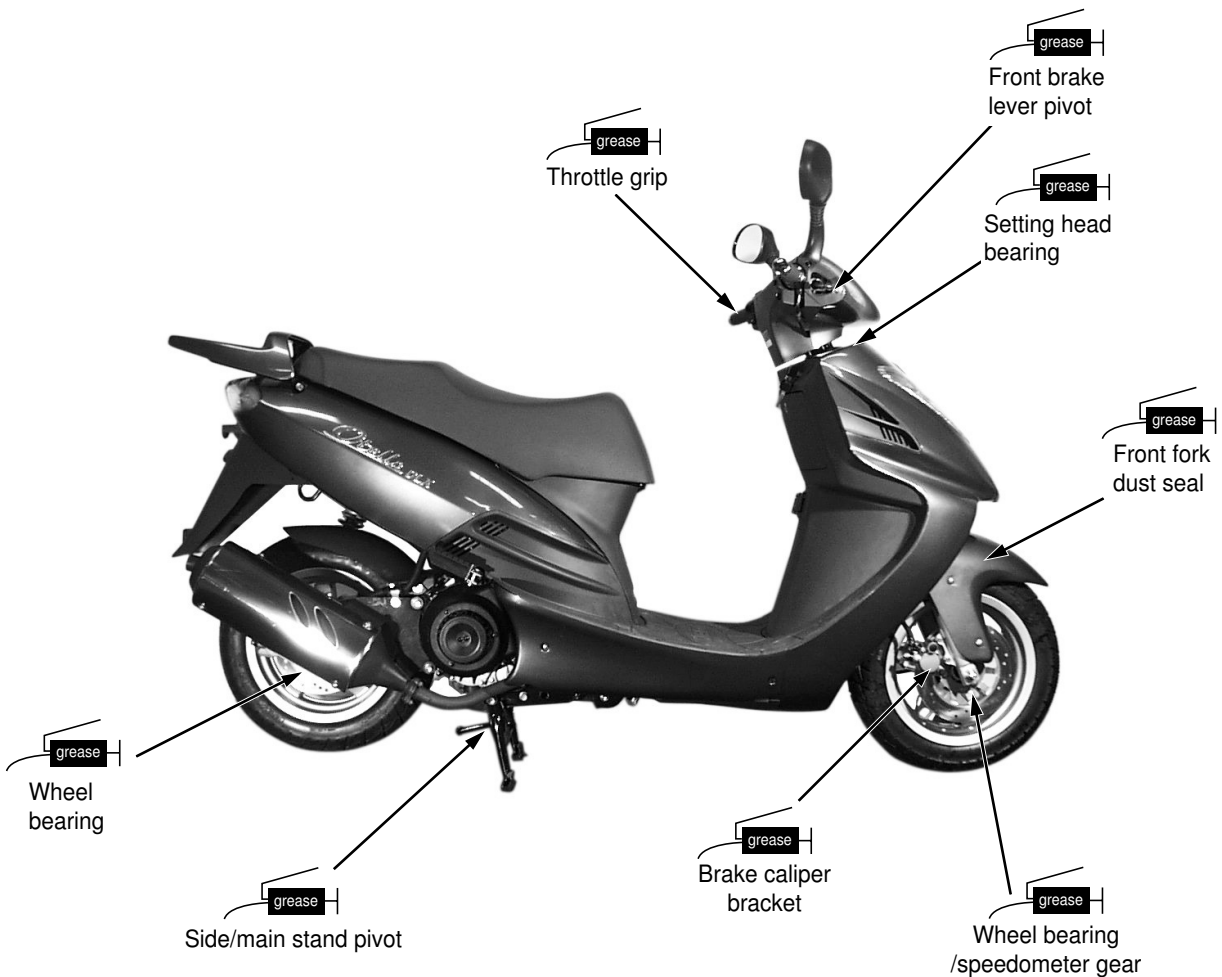


Lubrication Points

Unless specifically designated, use general grease to lubricate the lubrication points. For sliding parts not shown here, add oil or grease.

Control Cable Lubrication

Remove and clean the upper assembly of the throttle cable, and apply oil. If the cable has expanded, replace it.



MEMO

3. Inspections/Adjustments

Service Information	3-1	Brake Pad	3-7
Regular Inspection Schedule	3-3	Brake System	3-7
Fuel Line	3-4	Brake Lever Free Play	3-8
Throttle Grip Operation	3-4	Headlight Adjustment	3-8
Air Cleaner	3-4	Side Stand	3-8
Spark Plug	3-5	Suspension	3-9
Valve Tappet Clearance	3-5	Bolts and Nuts	3-9
Cylinder Compression Pressure	3-6	Wheels/Tires	3-9
Carburetor Idling	3-6	Steering Head Bearing	3-10
Brake Fluid	3-7		

Service Information

WARNING

The exhaust gas contains poisonous substance. Do not keep engine idling in a closed or poorly ventilated place for a long period of time.

NOTES

For information on engine oil and oil filter, refer to sections 2-3 and 2-4
Stand the main stand prior to beginning work.

Specifications

Throttle grip play		2 6mm(1/8-1/4 in)
Spark plug		CR8EH-9
Spark plug gap		0.8 0.9mm(0.031-0.035in)
Valve clearance	IN	0.12 0.02mm(0.005 0.001 in)
	EX	0.12 0.02mm(0.005 0.001 in)
Carburetor idle speed		1,600 100rpm
Cylinder compression pressure		13.8kg/

Tires

Cold tire pressure	Driver only	Front tire	175kPa (1.75kg/)
		Rear tire	200kPa (2.00kg/)
	Driver and a passenger	Front tire	225kPa (2.25kg/)
		Rear tire	225kPa (2.25kg/)
Tire size	Front tire		120/70-13(Tubeless)
	Rear tire		130/70 12(Tubeless)
Min,tread depth “ ”	Front tire		4mm (0.16 in)
	Rear tire		7.5mm (0.3 in)

Torque Values

Spark plug	1.1kg m, (11N.m, 8ft lb)
Cylinder head cover bolts	1.0kg m, (10N.m, 7ft lb)
Valve adjusting nuts	1.1kg m, (11N.m, 8ft lb)
Timing hole cap	0.6kg m, (6N.m, 4.3ft lb)

Tools

Wrench, 8 9mm

Adjusting wrench

Compression gauge

Regular Inspection Schedule

Carry out pre-operation check at each scheduled maintenance period based on the information described in the owner's manual.

I: Inspect, and clean, adjust, lubricate or replace, if necessary.

R: Replace L: Lubricate C: Clean

Item \ Frequency		Odometer reading(Note 1)				Remark
		1000km	4000km	8000km	12000km	
			6	12	18	
	Fuel line(Fuel tube)	I	I	I	I	
	Fuel filter	R	R	R	R	
	Throttle grip operation	I	I	I	I	
	Air cleaner	C for each 1,000km				Note 2
	Spark plug		I	R	I	
	Valve clearance	I	I	I	I	
	Transmission oil				R	
	Engine oil	R	R	R	R	
	Engine oil filter element	R	R	R	R	
	Carburetor idle speed	I	I	I	I	
	Brake fluid		I	I	R	Note 3
	Brake shoe/pad		I	I	I	
	Brake system	I	I	I	I	
	Brake stop switch		I	I	I	
	Headlight beam distance		I	I	I	
	Side stand		I	I	I	
	Suspension		I	I	I	
	Bolt and nut tightness	I		I		
	wheels/tires		I	I	I	
	Steering head bearing	I			I	

Should be received by an authorized DAELIM dealer, unless the owner has proper tools and service data and not mechanically qualified.

In the interest of safety, we recommended these items be served only by an authorized DAELIM dealer.

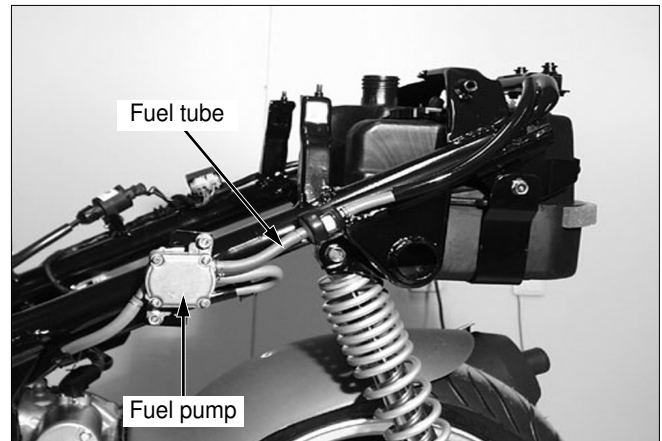
NOTE

1. After the odometer reading exceeds 12,000km, repeat maintenance service at intervals indicated in the table.
2. After riding in areas with high humidity or pollution, carry out maintenance service more frequently.
3. Replace every 2 years. Proper technology is required for this job.

Fuel Line (Fuel Tube)

Remove the luggage box (4-5)

Check the fuel tube of the fuel pump connected to the fuel tank and carburetor. If the fuel tube is cracked, damaged or leaks, replace it.



Throttle Grip Operation

Check if the throttle grip operates smoothly in any steering position.

If the throttle grip does not operate properly, lubricate the throttle cable.

If the throttle grip does not operate properly, check the throttle cable for aging, damage or kinking.

Check the throttle grip free play.

Free play: 2~6mm(1/8~1/4in)

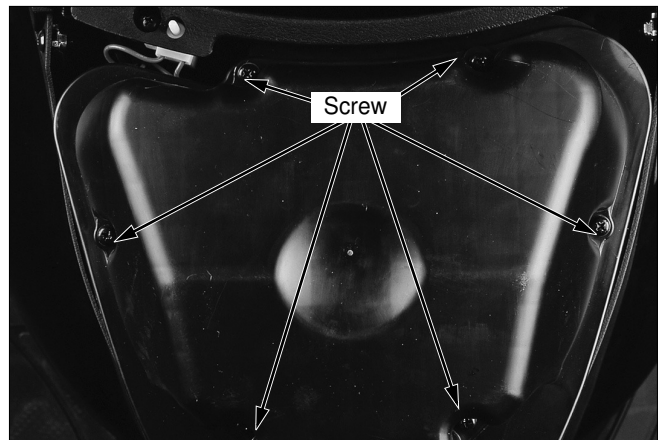


Air Cleaner

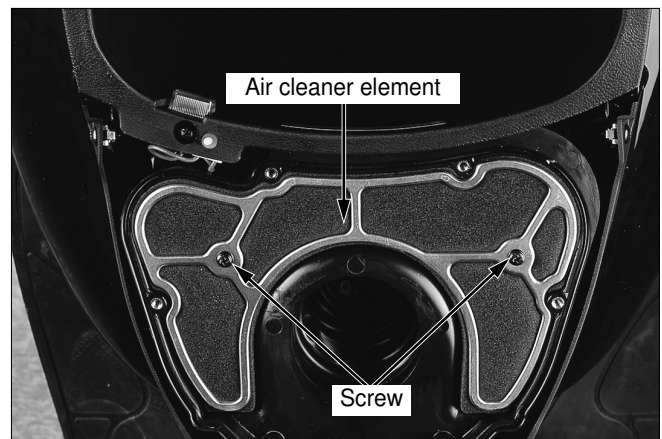
Unlock the system with main key, and open the seat.

Loosen the 6 setting screw assembled to the air cleaner case cover.

Loosen the 2 setting screw assembled to the air cleaner element.



Remove the air cleaner element.



Soak the element in solvent, and dry completely.
Soak in gear oil (SAE #80-90), and squeeze firmly to remove excessive oil.

If the element is excessively contaminated or damaged, replace it.

Assemble in the reverse order of the disassembling.

Spark Plug

Remove the plug maintenance cover.

Remove the spark plug cap and disassemble the plug.

Check the plug for damage, contamination or deposits.

If the spark plugs are severely contaminated or damaged, replace with new ones. If the plugs can be reused after removing only the carbon, use plug cleaner and wire brush to clean the plugs.

Always use a feeler gauge to check the clearance.

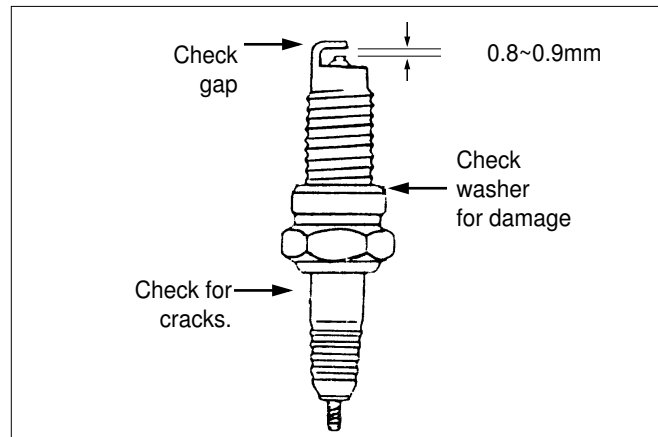
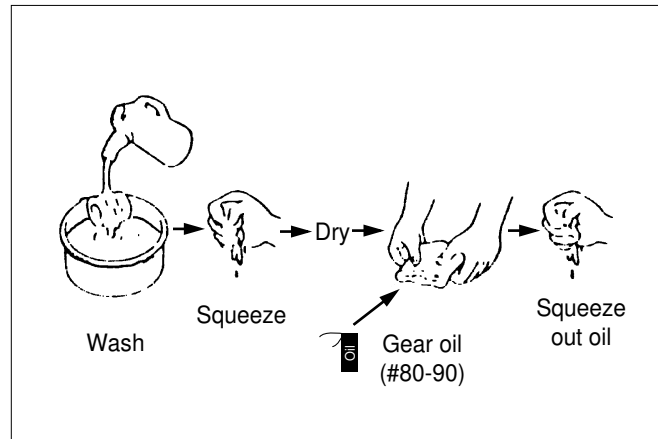
Genuine plug: CREH-9

Spark plug clearance: 0.8-0.9mm

Torque value: 1.1kg-m(11N.m, 8ft-lb)

NOTE

First, manually tighten the plugs, and use a spark plug wrench to tighten completely.



Valve Tappet Clearance

Remove the following parts.

-- Center cover. (4-4)

Loosen the 4 cylinder head bolts.

NOTE

Carry out inspection/adjustment when the engine is cold. (35 /95F)

Remove the cylinder head cover.

Turn the flywheel counterclockwise, and match the "T" mark on the flywheel with the index mark on the R crank case cover.

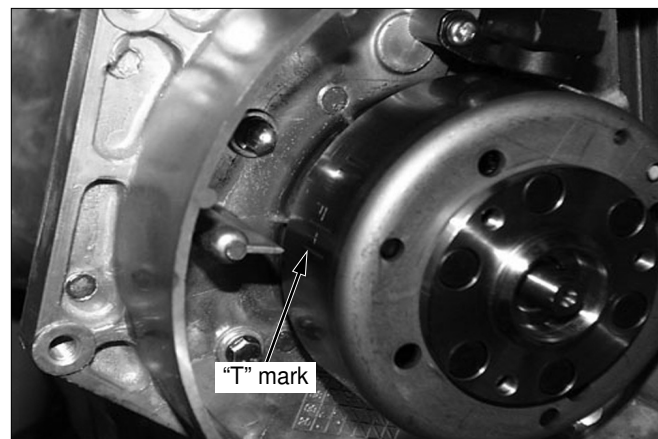
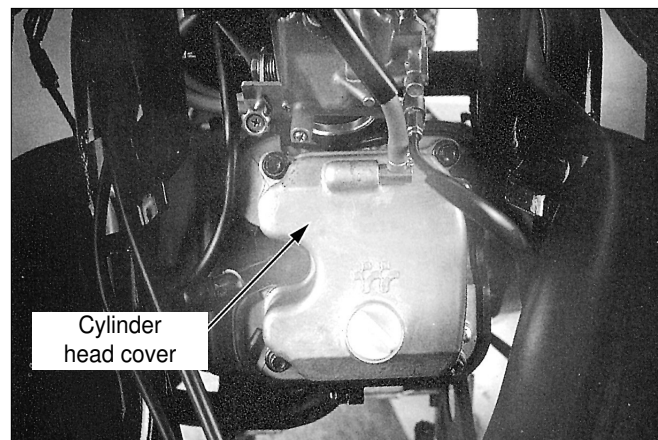
The piston at this time must be at the top dead center of the compression stroke.

Measure valve clearance with a feeler gauge.

Valve tappet clearance:

Intake: $0.12 \pm 0.02\text{mm}(0.05 \pm 0.001\text{in})$

Exhaust: $0.12 \pm 0.02\text{mm}(0.05 \pm 0.001\text{in})$



Loosen the lock nut with a valve wrench, and set valve clearance to a prescribed level by turning the adjusting screw with a valve adjusting wrench.

After setting clearance to the prescribed level, hold the adjuster screw with a valve adjusting wrench, and tighten the lock nut.

Torque values: 1.1kg-m(11N.m,8ft-lb)

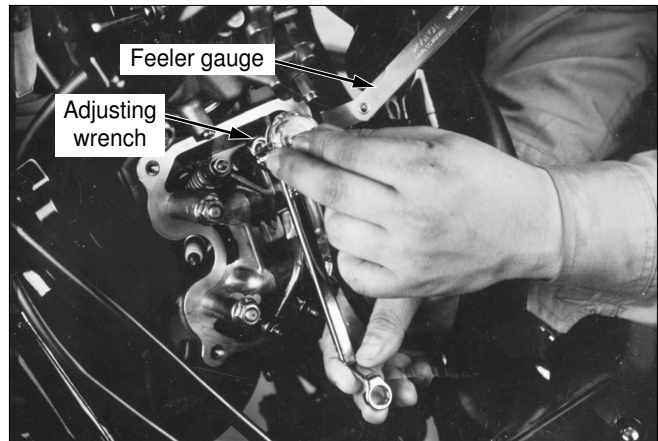
Tools: Wrench 8×9mm

Adjusting wrench B

Measure the valve clearance again.

Install the cylinder head cover and tighten the bolts.

Torque values: 1.0kg-m(10N.m, 7ft-lb)



Cylinder Compression Pressure

Start and warm up the engine.

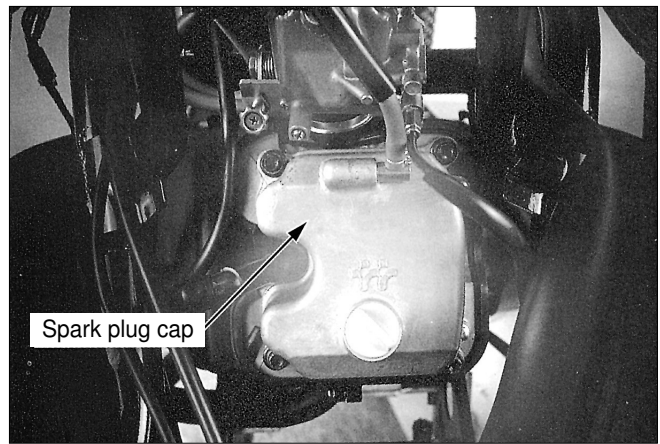
Remove the plug maintenance cover.

Stop engine, and remove the spark plug cap and spark plug.

Install a compression gauge.

Open the throttle completely, and crank the engine with the starter motor until the gauge reading rising.

Tool: Compression gauge



NOTE

The maximum reading is usually reached within 4~7 seconds.

Compression pressure: 13.8kg/cm²

If the pressure is low, check the following:

- Inadequate valve clearance adjustment
- Valve leakage
- Leakage from the cylinder head gasket
- Piston / cylinder worn

If pressure is high, check the following:

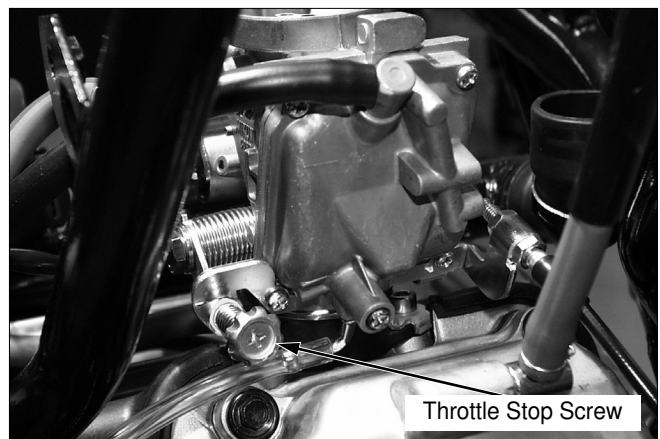
- Carbon deposits on the piston head, and cylinder head.



Carburetor Idling

NOTE

Verify all engine adjustments satisfy specifications. Make adjustments, if necessary. Heat the engine to make accurate idling inspection and adjustment. Stand the vehicle on the main stand. Turn the throttle stop screw and make adjustments to prescribed idling speed.



Brake Fluid

Front brake fluid

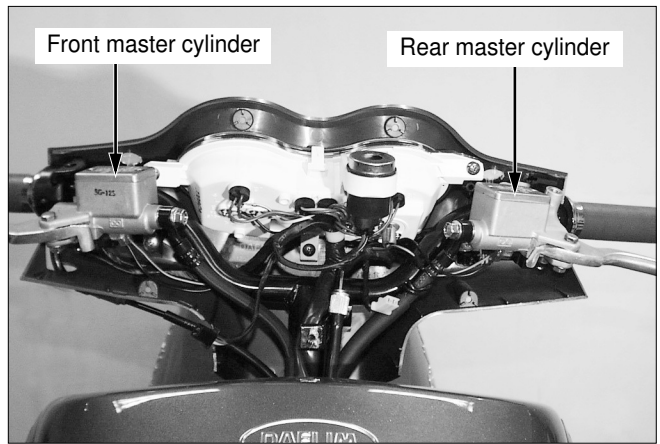
Remove the screw rivet and take the front brake fluid maintenance lid off.

Check the oil level inside the front brake reservoir. If the oil is near the lower limit line, remove the reservoir diaphragm and fill DOT 3 and DOT 4 brake fluid to the top limit line.

If the brake fluid reaches the lower limit line, check the entire brake system for leaks.

Rear brake fluid

Replenish in the same method as that of front brake fluid replenishment.



Brake Pad

Front brake pad replacement

Check the front brake pads for wear.

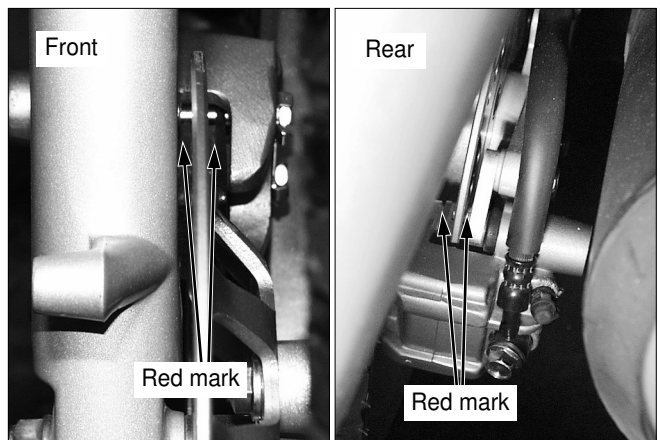
If the red mark on the pad reaches the brake disk, replace the pads.

Rear brake pad replacement

Replace in the same method as that of front brake pad replacement.

NOTE

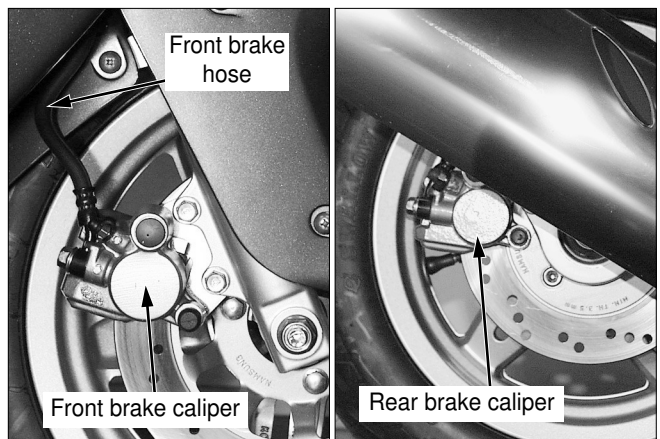
Replace the brake pads in sets.



Brake System

Check the front brake hose and the rear brake hose for cracks or damage. If any leaks are found, replace immediately.

Check the front brake rod and the rear brake rod for looseness or damage, and replace it if necessary.

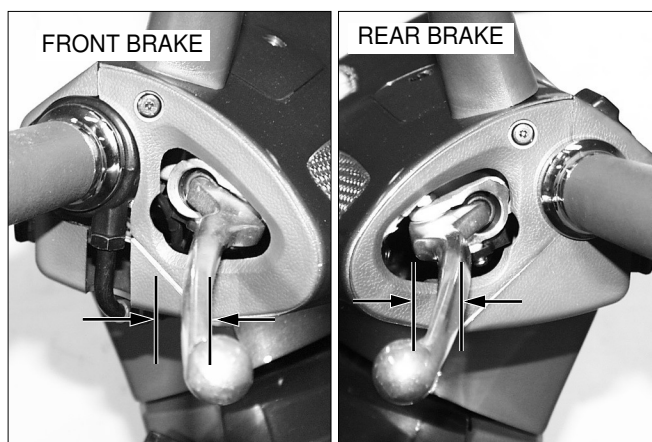


Brake Lever Free Play

Check the free play after pulling the lever.

Front:10-20mm

Rear:10-20mm



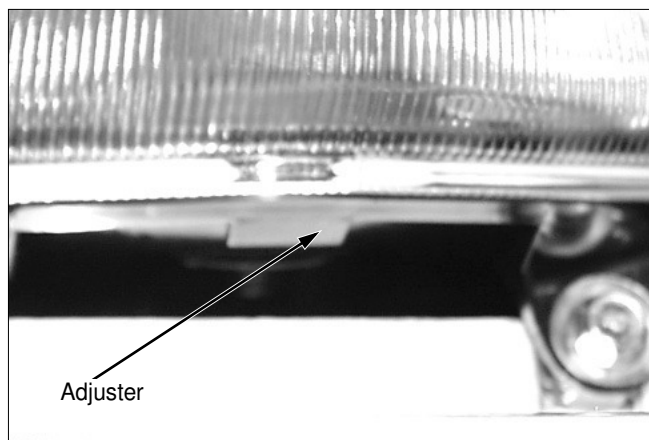
Headlight Adjustment

Adjust the headlight beam level by operating the adjusting screw located on the upper side of the front fender.

NOTE

Adjust the beam level according to local laws and regulations.

Improper beam level adjustment may blind on coming drivers, or may incorrectly light the road ahead.



Side Stand

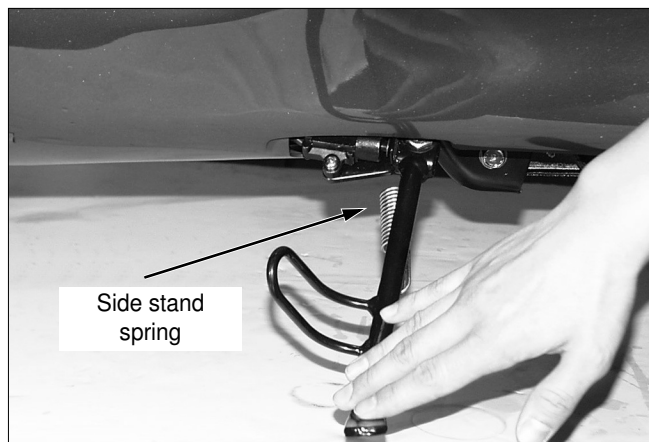
Erect the main stand.

Pull the lower end of the side stand, and see if it moves freely.

If the side stand does not move smoothly, apply grease to the pivot area.

If the side stand moves too freely, check the side stand spring.

Check the axial movement of the side stand.



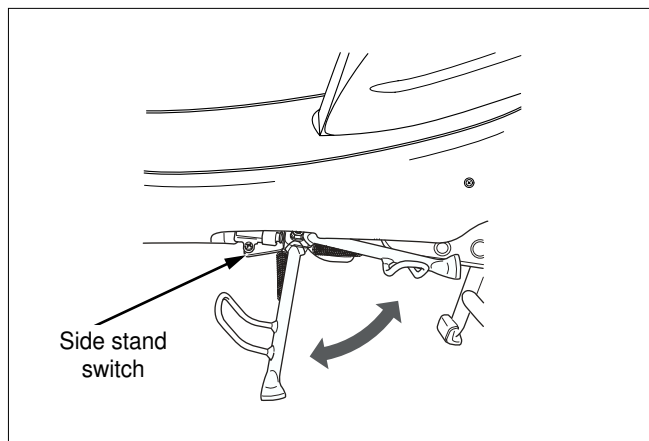
Check the side stand ignition cut-off switch ;

Put the side stand up.

Start the engine.

Lower the side stand. The engine should stop as you put the side stand down.

If there is a problem with the system, check the side stand switch.



Suspension

NOTE

Do not ride motor cycle with an unsatisfactory suspension. Loose or worn suspension parts will lead to deterioration in the vehicle's safety and operation efficiency.

Front wheel

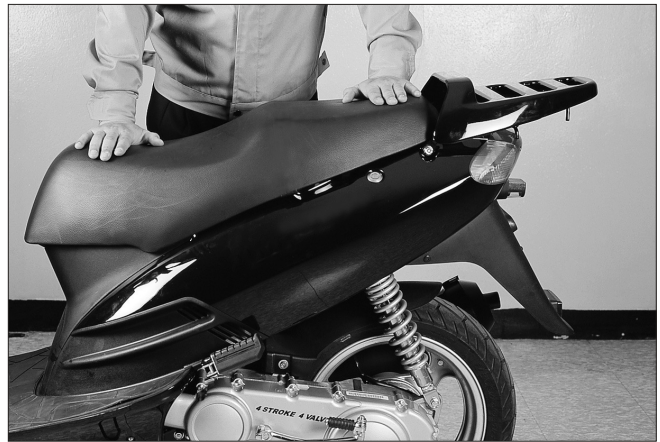
Hold the brake lever, and compress the front cushion up and down several times to check the operating conditions.

Check the front fork for oil leakage, parts damage or looseness.

Rear wheel

Compress the rear cushion up and down several times to check the operating conditions.

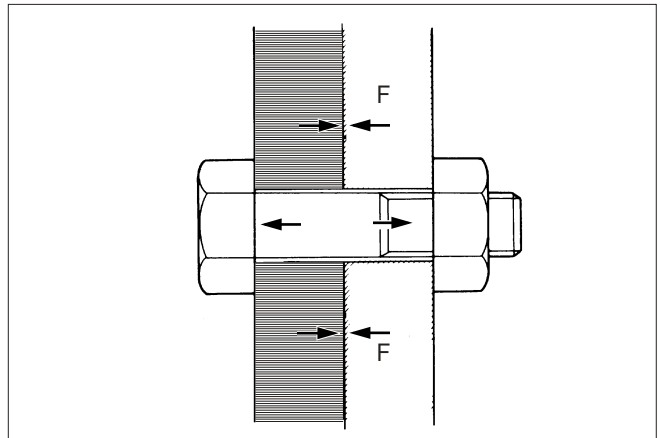
Check the rear fork for oil leakage, parts damage or looseness.



Bolts and Nuts Tightening

Check all nuts and bolts of the frame during the regular maintenance (3-3) to check if they meet the prescribed torque value.

Check all pins, clips, hose clamps and cable stays.



Wheels/Tires

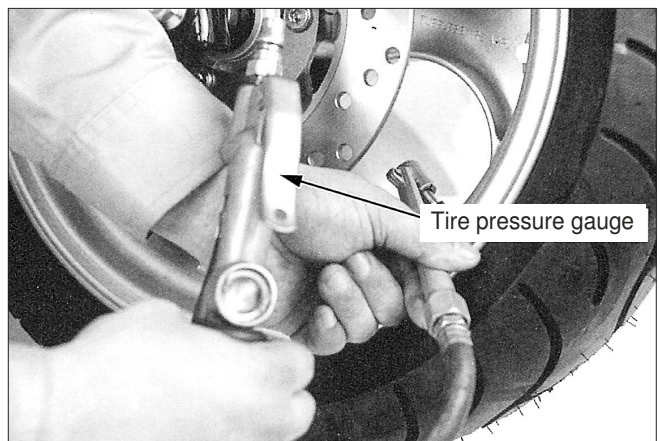
NOTE

Check the tire pressure when the tires have been cooled off. Check the tread (the part making contact with the road surface) and side for wear, cracks or damage. Replace damaged tires.

Standard Pressure

kg/cm² (kPa)

Item	Front wheel	Rear wheel
Driver only	1.75(175)	2.00(200)
Driver and a passenger	2.25(225)	2.25(225)

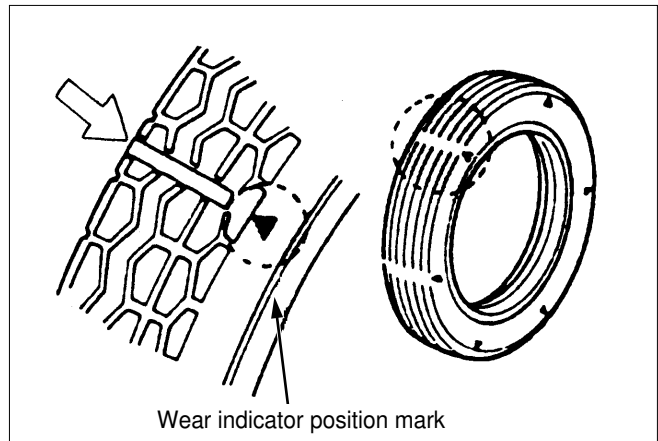


Check the tread depth at the tire center.

If the tread depth has reached the service limit, replace the tire.

Service limit: 4mm (0.16in)

7.5mm (0.3in)



Steering Head Bearing

NOTE

Check the cable if it interferes with the handle operation.

Lift the front wheel and check if the handle moves right and left smoothly. If the handles move heavily, check if the cable or electric cord interferes with the handle. If the handle moves satisfactorily, adjust the steering head bearing.



4. External Parts

Service Information	4-1	Muffler	4-9
Maintenance Procedure	4-2	Front Fender	4-10
External Parts Removal/Installation	4-3		

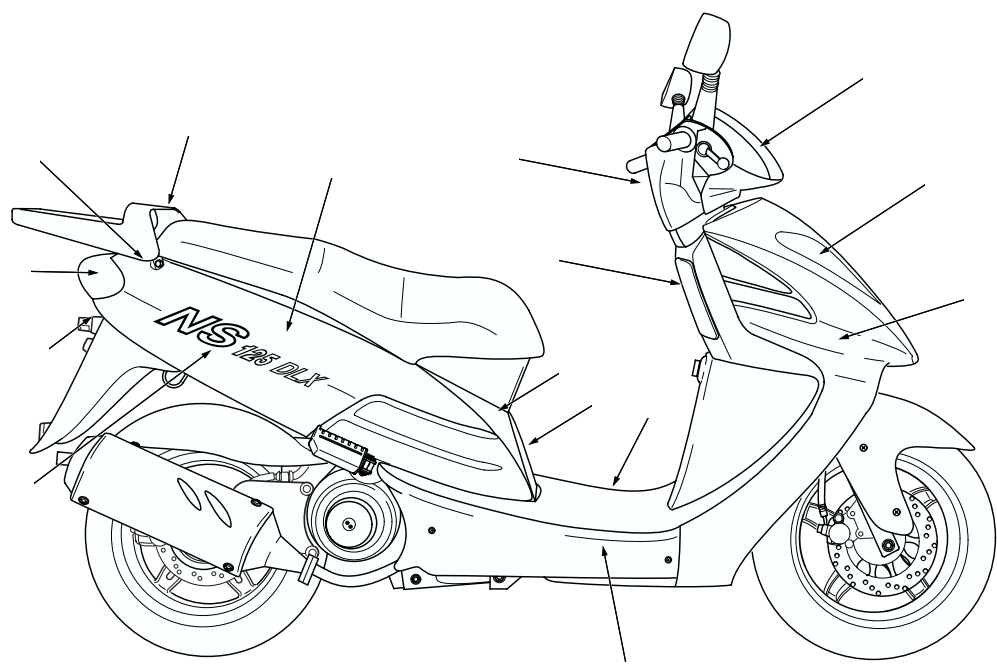
Service Information

NOTE

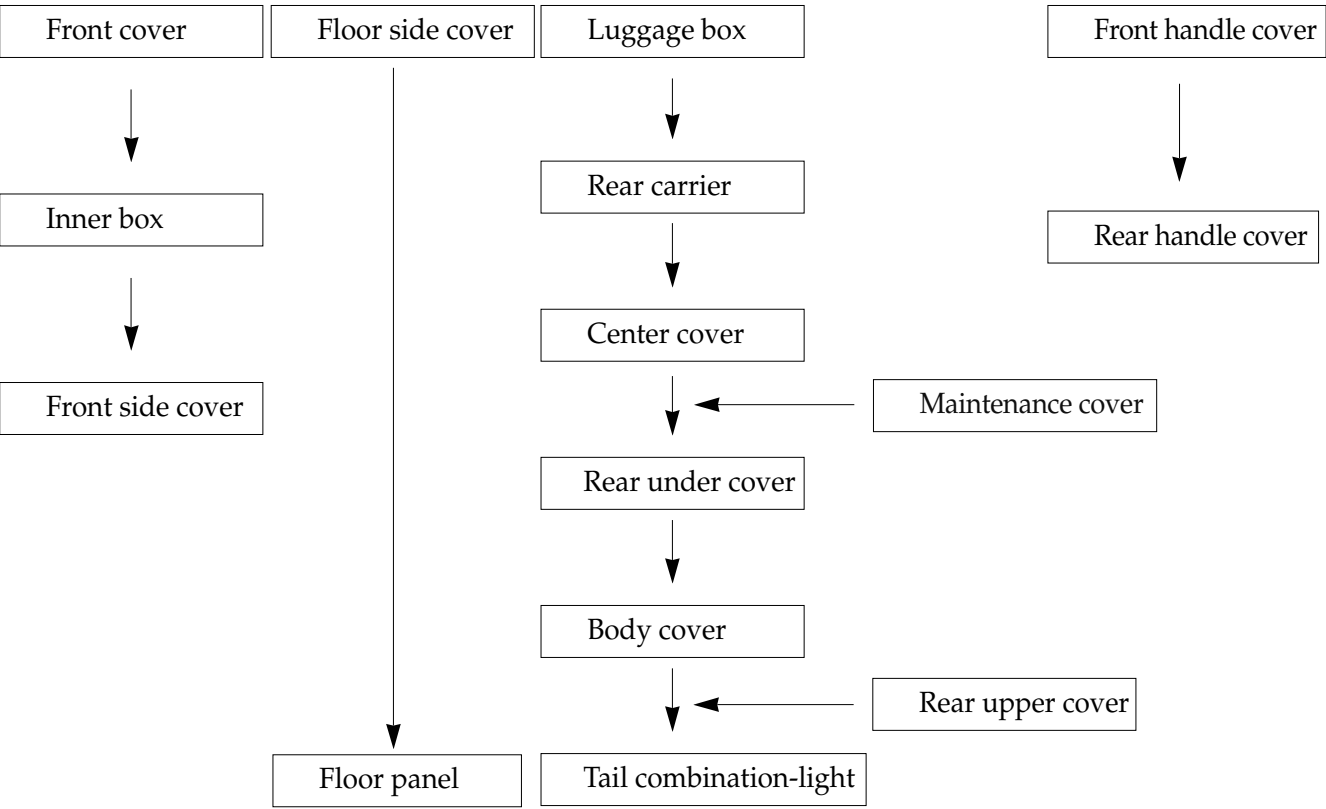
This section describes external parts removal/installation.
Do not apply unreasonable force when disassembling covers, to prevent possible damage.
A muffler is hot. Do not service it immediately after the engine is stopped.

Maintenance Procedure

Names of frame covers

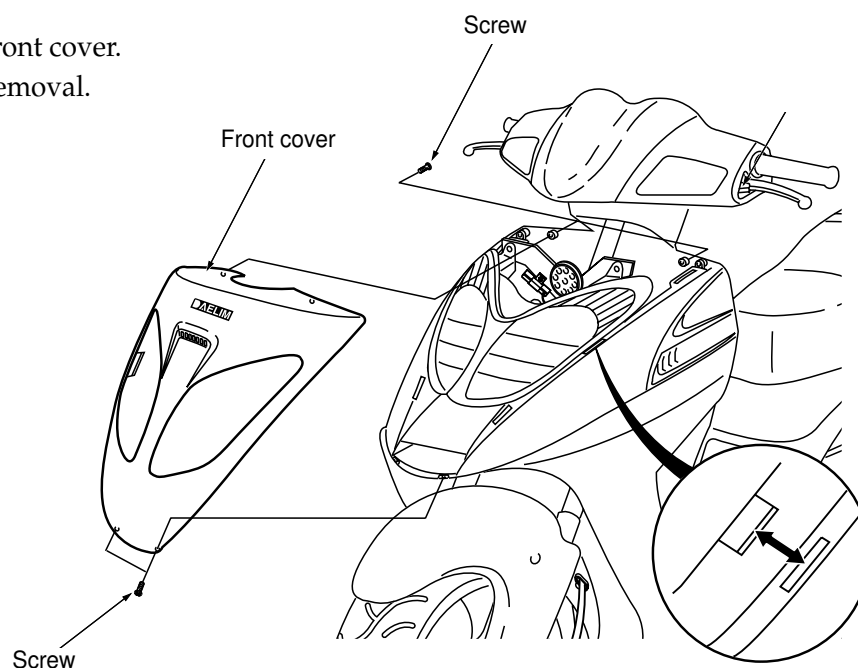


This chart shows arrows connected in the order of disassembling covers.



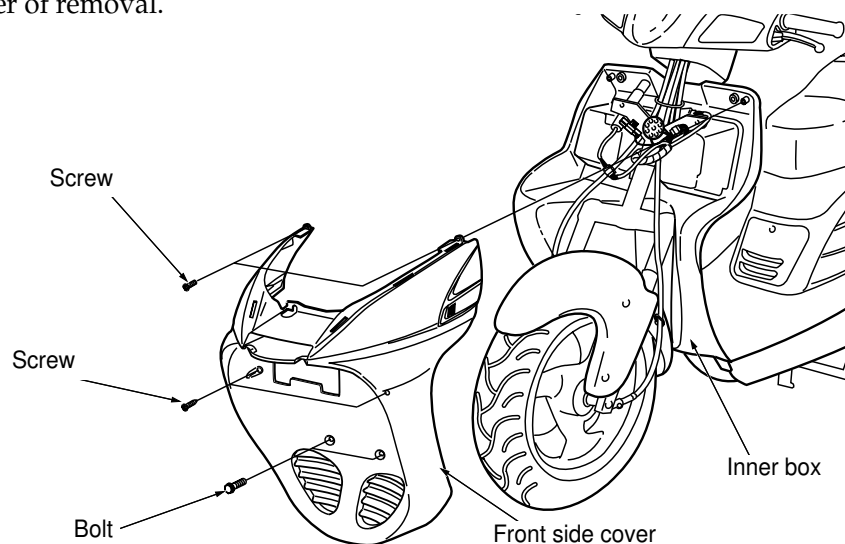
Front Cover removal/Installation

Loosen the 2 upper screws.
Loosen the 2 lower screws.
Pull upward and remove the front cover.
Install in the reverse order of removal.



Front Side Cover Removal/Installation

Remove the front fender. (4-10)
Remove the front wheel. (12-5)
Remove the 2 front lower flange bolts and the 2 upper screws.
Remove the 2 inner box setting screws.
Remove the front side cover.
Install in the reverse order of removal.



Inner Box

Loosen the 2 bolts installed on the bag holder.

Remove the bag holder.

Open the inner box lid.

Remove the 1 cap nut.

Remove the 2 flange bolt installed on the floor panel.

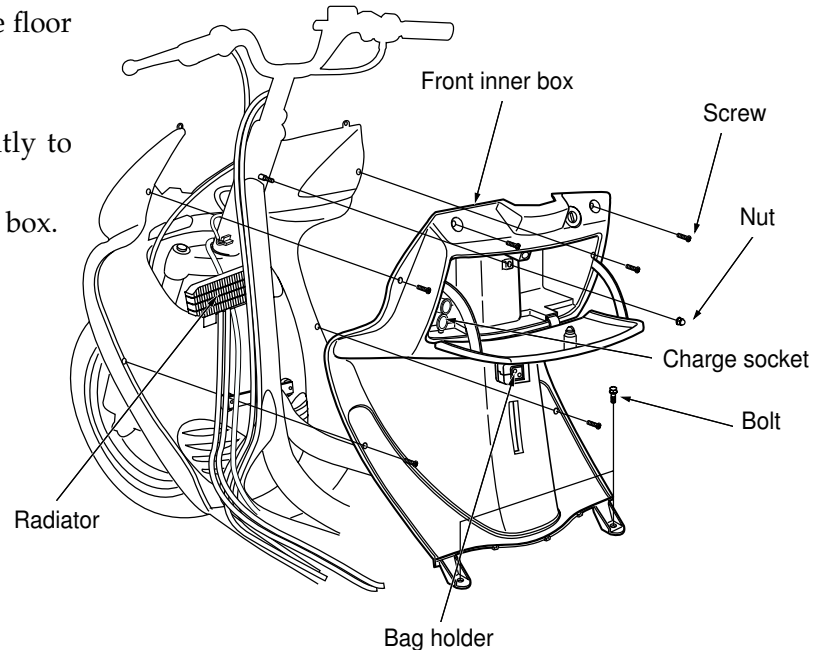
Remove the 6 front side cover screws.

Remove turn the main key cover slightly to unlock, and remove the main key cover.

Remove the charge socket from the inner box.

Remove the inner box.

Install in the reverse order of removal.



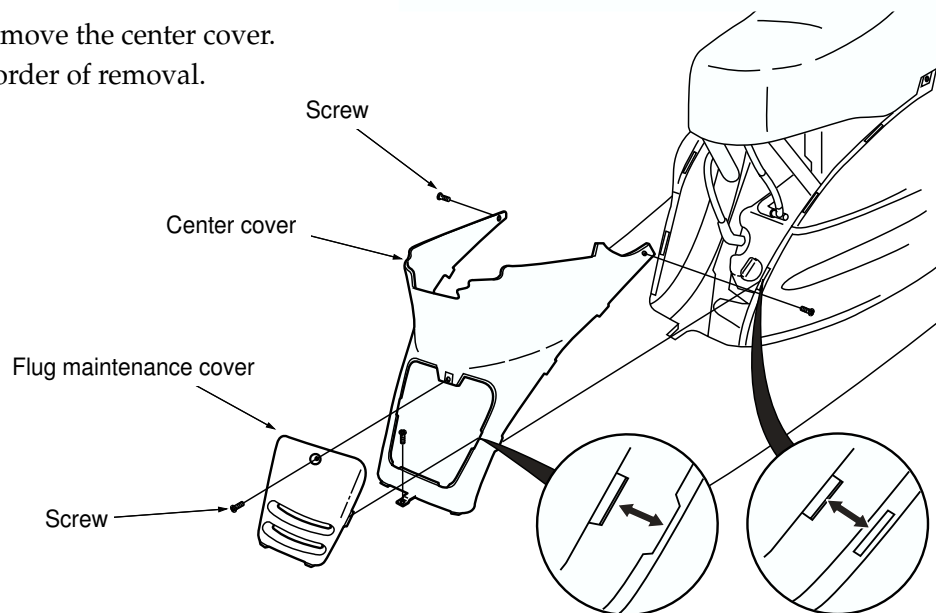
Center Cover

Loosen the 4 setting screws assembled to the body cover.

Remove each of the setting screws assembled to the floor panel.

Band inwards, and remove the center cover.

Install in the reverse order of removal.



Side Cover



Remove the floor mat.

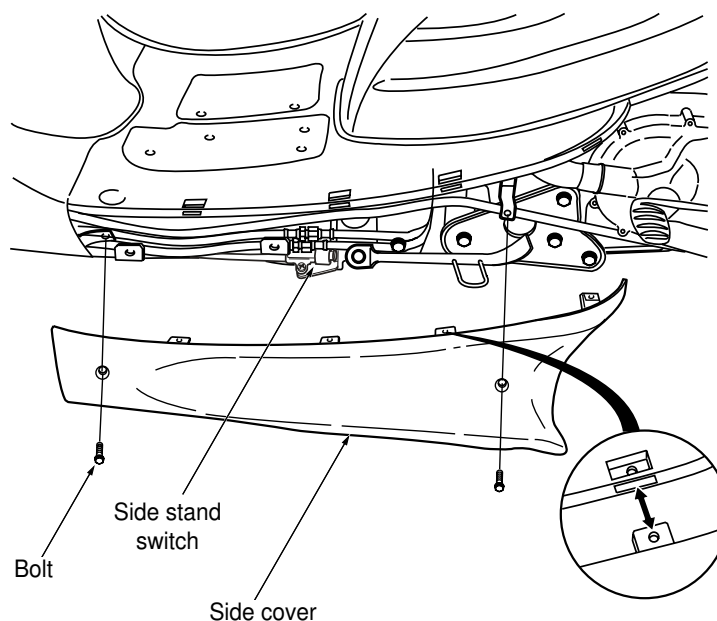
Loosen the 2 screws on the side of the R/L side covers.

Loosen 1 each of the R/L screws assembled to the floor panel.

Loosen 3 each of the R/L body cover clips assembled to the floor panel.

Remove R/L side covers.

Install in the reverse order of removal.



Luggage Box

Unlock the system with the main key, and open the seat.

Loosen the 4 cap nuts.

Remove the fuel tank cap.

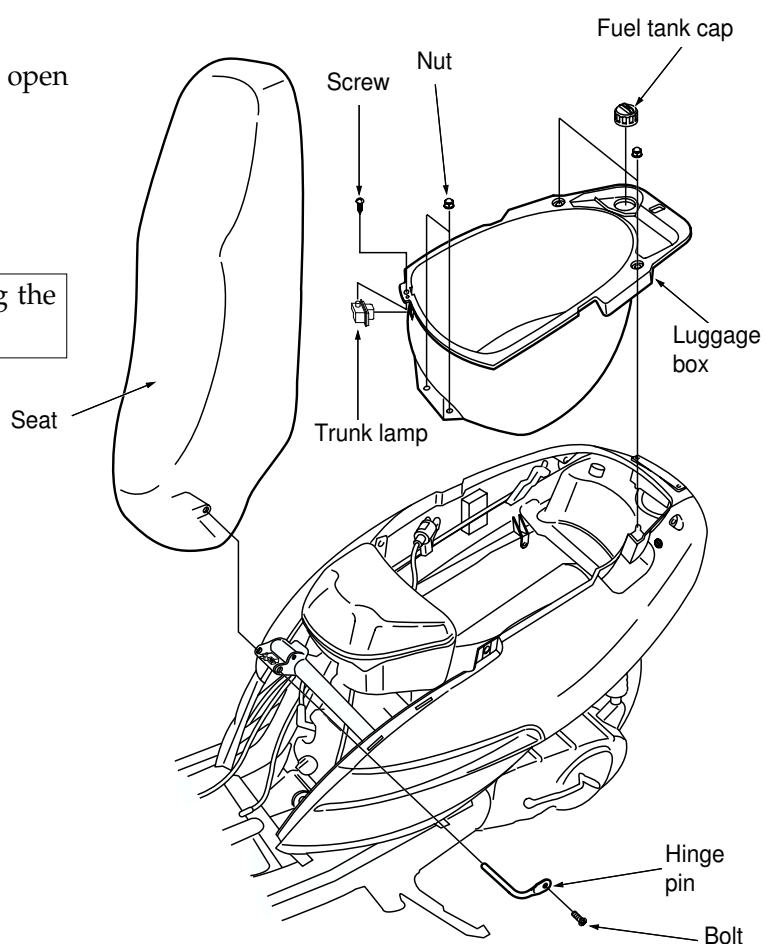
NOTE

Assemble the fuel tank cap after removing the luggage box.

Remove the luggage box.

Install in the reverse order of removal.

Remove the wiring of trunk lamp.



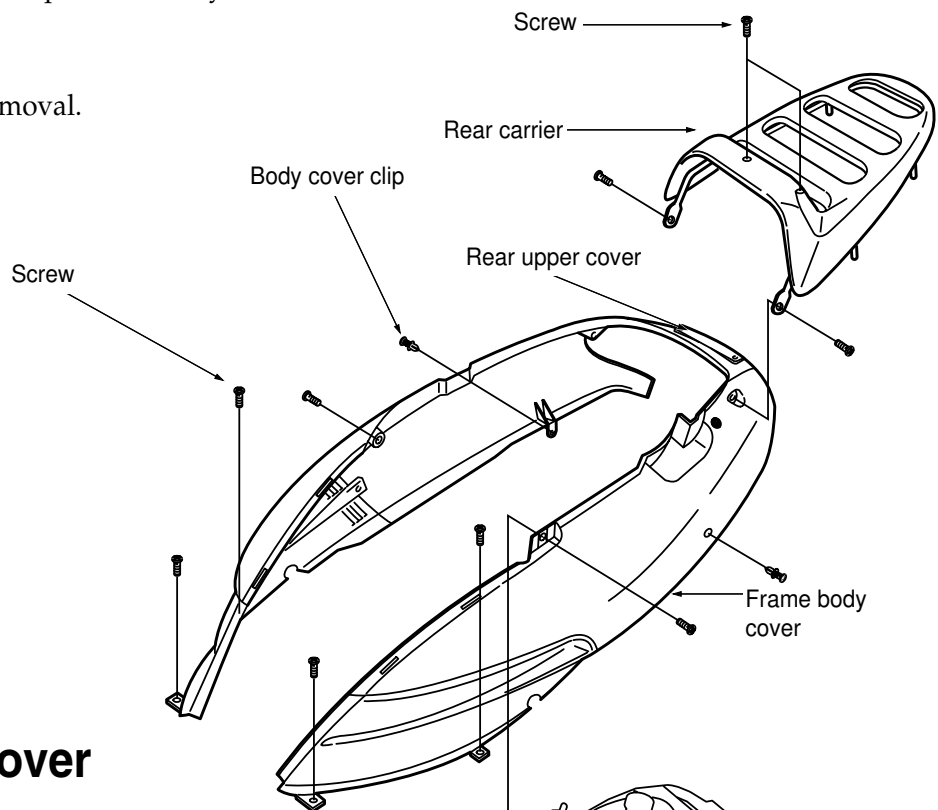
Rear Carrier

Loosen 1 each of the R/L flange bolt set on the body cover side.

Loosen the 2 flange bolts set on top of the body cover.

Remove the rear carrier.

Install in the reverse order of removal.



Body Cover/Rear Cover

Remove the rear carrier. (4-6)

Remove the luggage box. (4-5)

Remove the center cover. (4-4)

Loosen 2 each of the R/L body cover grill screws set with the floor panel.

Loosen 1 each of the R/L body cover clips assembled to the rear fender.

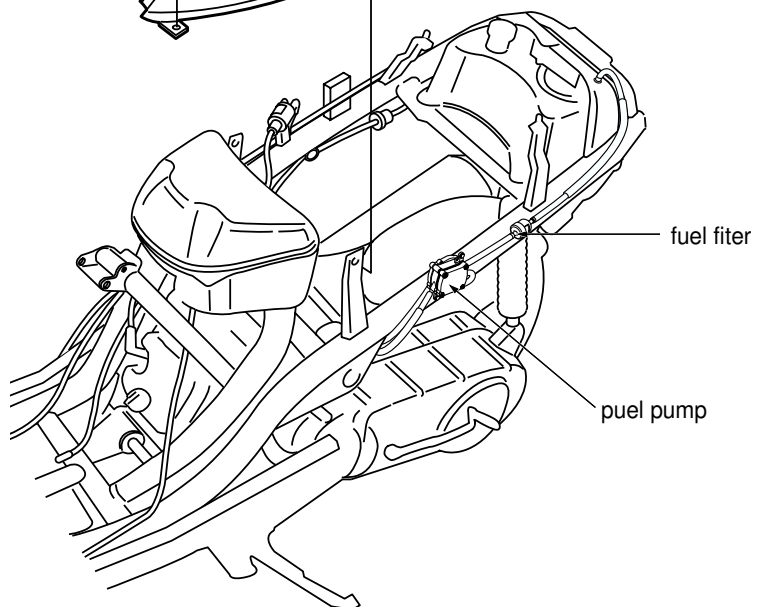
Loosen 1 each of the R/L flange bolts set on the frame body.

Loosen 2 rear under cover setting screws, and remove the rear under cover.

Remove the R/L frame body cover.

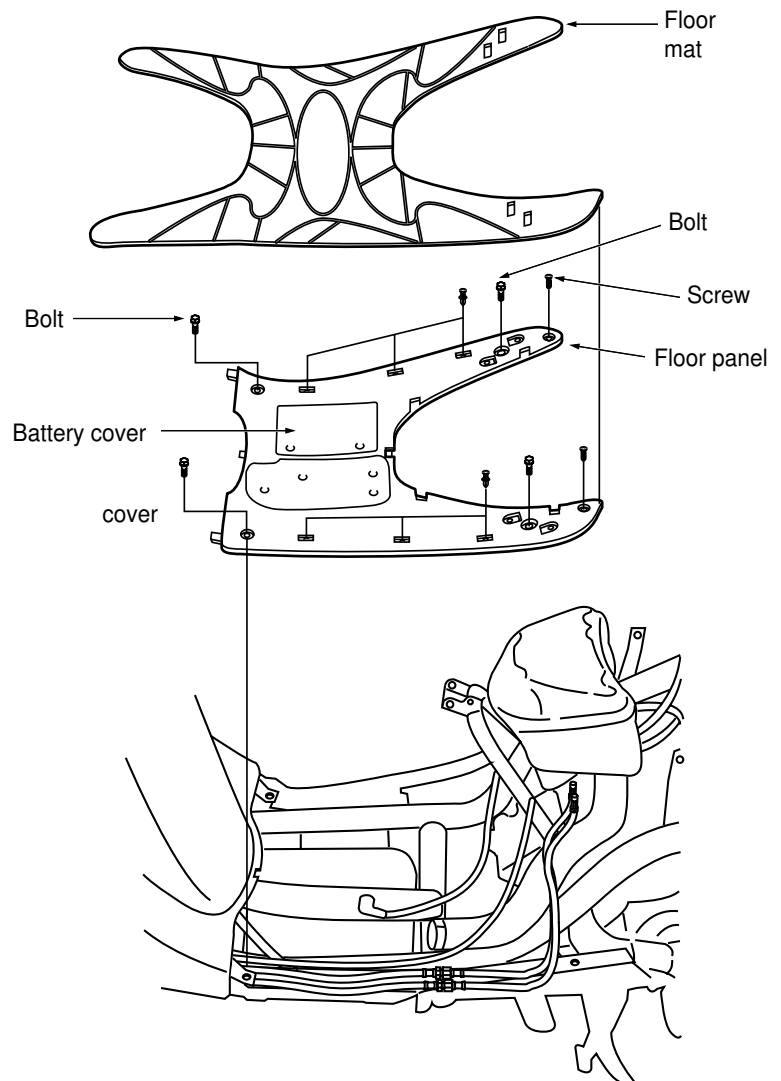
Loosen the 2 rear upper cover setting screws.

Install in the reverse order of removal.



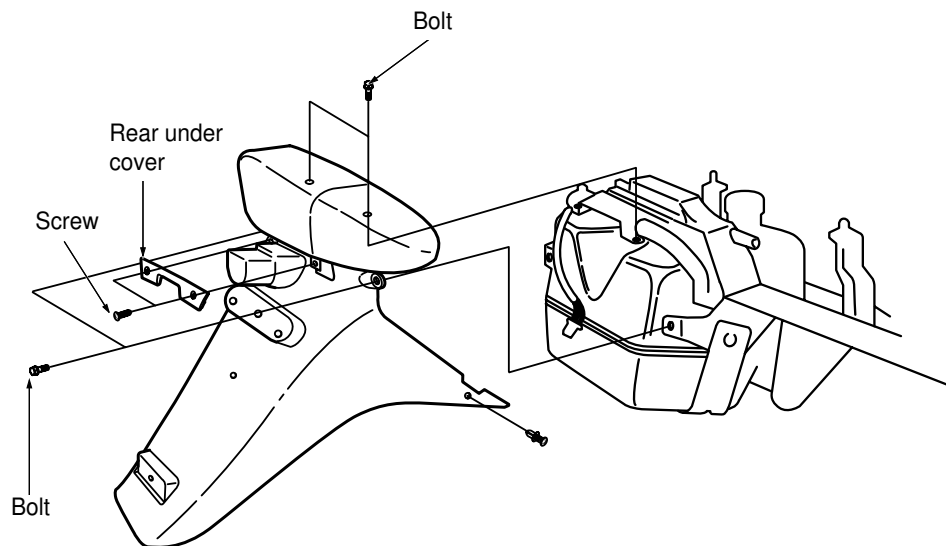
Floor Panel/Battery Cover

Remove the center cover. (4-4)
 Loosen 2 each of the R/L pillion step cover setting screws of the floor mat, and remove the floor mat.
 Loosen the 2 battery cover setting screws, and remove the battery cover.
 Withdraw the battery wiring, and remove the battery.
 Remove the air cleaner duct.
 Loosen the 4 setting bolts.
 Remove the side cover. (4-5)
 Remove the 4 center cover setting screws.
 Remove the floor panel.
 Install in the reverse order of removal.



Tail Combination-Light

Remove the following parts.
 - Luggage box. (4-5)
 - Luggage carrier. (4-6)
 - Body cover. (4-6)
 - Rear under cover. (4-6)
 Loosen the 2 bolts assembled to the frame rear part.
 Loosen the 2 R/L side setting bolts.
 Remove the tail combination-light wiring.
 Remove the tail combination-light
 Install in the reverse order of removal.



Handle Cover

Front Handle Cover

Loosen the 4 rear handle cover setting screws.

(1 each on R/L side, and 2 each on meter side)

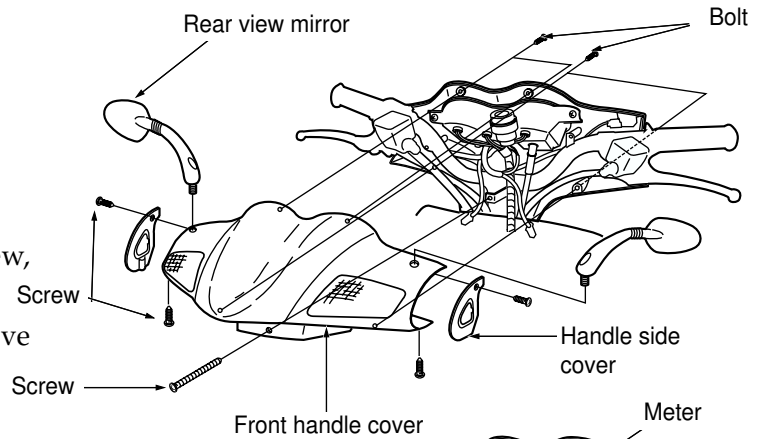
Loosen 1 front handle cover setting screw.

Remove 1 R/L handle side cover lower screw, and 1 each of the special upper side screws.

Pull the front handle cover forward, and remove the wiring.

Remove the front handle cover.

Install in the reverse order of removal.



Rear Handle Cover

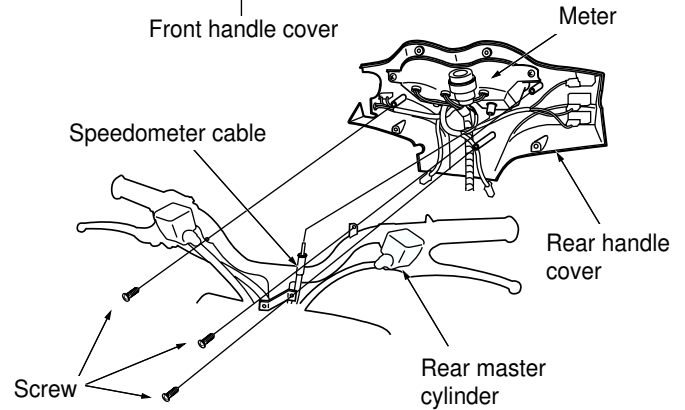
Loosen the 3 screws assembled to the handle bar.

Loosen the 3 screws assembled to the meter.

Remove the R/L side switch wiring.

Remove the rear handle cover.

Install in the reverse order of removal.



Muffler

Removal

Loosen the 3 flange nuts securing the EX. pipe comp.
 Loosen the rear brake hose setting bolt.
 Loosen the flange bolt securing the rear wheel mud guard.
 Loosen the 2 flange bolts securing the R. crankcase.
 Remove the EX. muffler comp.

WARNING

Never perform the maintenance of the muffler right after stopping the vehicle because the muffler is extremely hot.

EX. Pipe removal

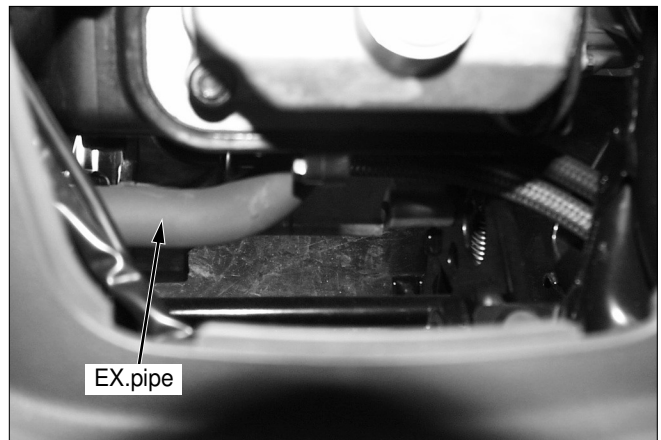
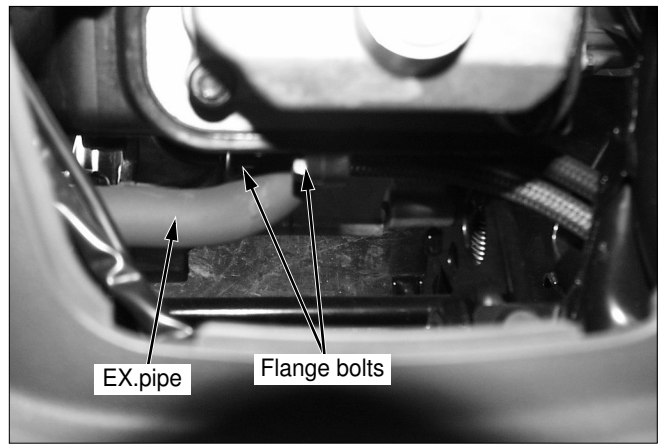
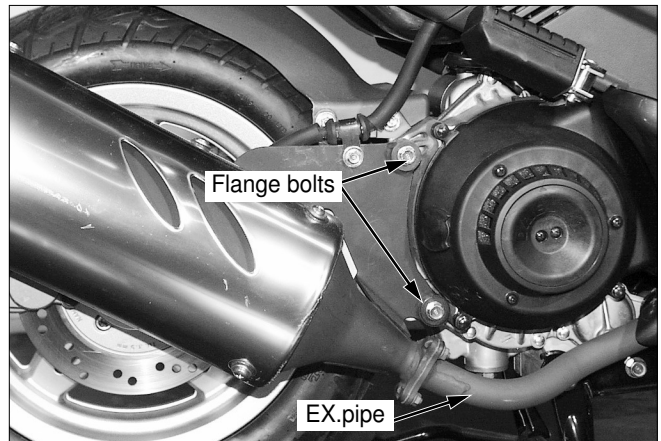
Remove the plug maintenance cover.
 Loosen the 2 flange bolts securing the cylinder comp.
 Remove the EX. pipe by drawing it to the ground direction.

Installation

Install the 2 flange bolts after securing the EX. pipe with the stud bolt of the cylinder comp.
 Install the gasket on the EX. muffler, connect the EX. pipe and install the 2 flange nuts temporarily.
 Install the 2 flange bolts on the R.crankcase temporarily.
 Tighten the 3 flange nuts to install the EX. muffler and EX. pipe.
 Install the flange bolt on the rear wheel mud guard.
 Tighten the muffler securing 2 flange bolts to install the R. crankcase.
 Tighten torque of the R. crankcase.
Torque: 5.5kg-m(55N.m, 40ft-lb)
 Tighten the rear brake hose setting bolt.

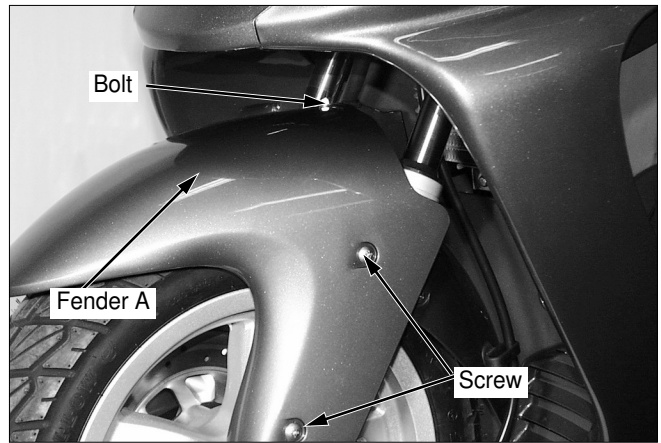
WARNING

When installing the gasket, replace it with the new one.
 Check to see if there is any evacuation after installing the muffler.

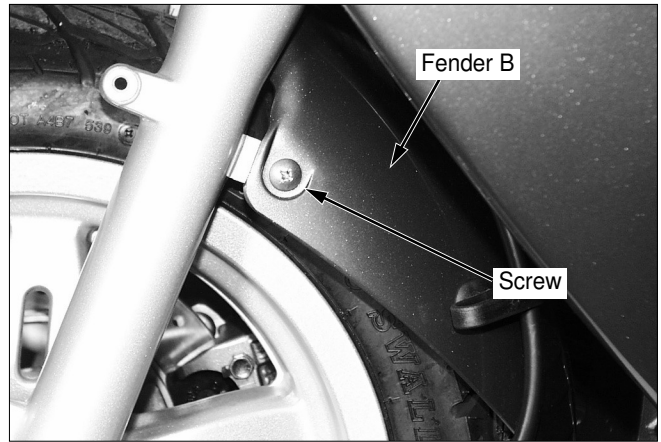


Front Fender

Loosen the flange bolt connecting the front fender A and B.



Loosen the 2 setting screws of the front fender A, and remove the front fender A.



Loosen 1 setting screw of the front fender B.
Remove the speedometer cable guide.
Remove the front fender B.
Install in the reverse order of removal.



MEMO
