

17. LIGHTS/INSTRUMENTS/SWITCHES

LIGHTS/INSTRUMENTS/SWITCHES

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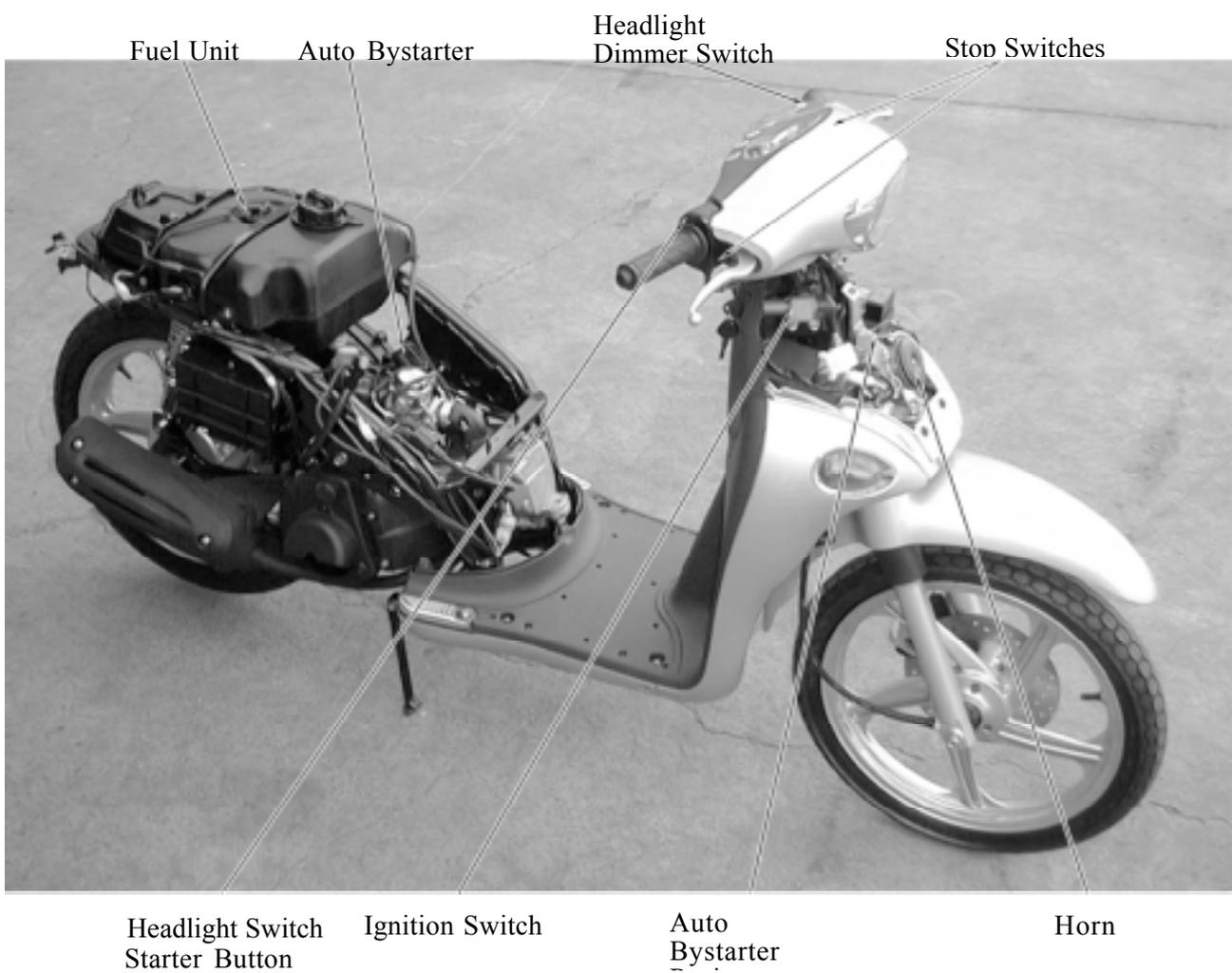
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ELECTRICAL EQUIPMENT LAYOUT



17. LIGHTS/INSTRUMENTS/SWITCHES

SERVICE INFORMATION

GENERAL INSTRUCTIONS

- An electric tester is needed to measure or test the electric equipment.
- Be sure to use fuses and bulbs of the same specifications to avoid damage of electrical equipment.
- After installation of each switch, a continuity check must be performed. A continuity check can usually be made without removing the part from the motorcycle.

TROUBLESHOOTING

Lights do not come on and horn does not sound when ignition switch is “ON”

- Faulty ignition switch
- Fuse burned out
- Weak battery
- Burned bulb
- Faulty switch
- Faulty horn
- Poorly connected, broken or shorted wire

Fuel gauge pointer does not move

- Faulty fuel gauge
- Faulty fuel unit
- Poorly connected, broken or shorted wire

Engine starts but stalls during idling

- Faulty auto bystarter
- Faulty auto bystarter resistor
- Poorly connected or broken wire
- Clogged carburetor

Fuel gauge pointer does not register correctly

- Faulty fuel gauge
- Faulty fuel unit
- Faulty fuel unit float

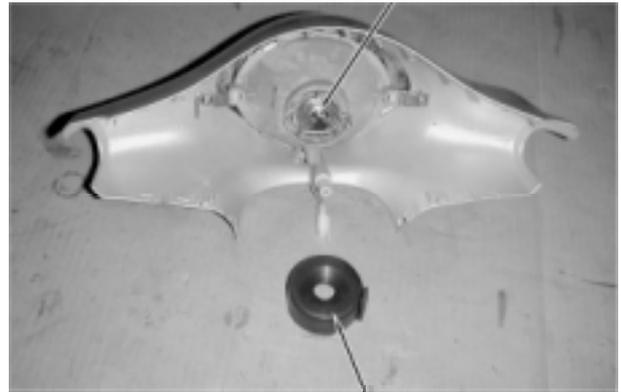
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HEADLIGHT

BULB REPLACEMENT

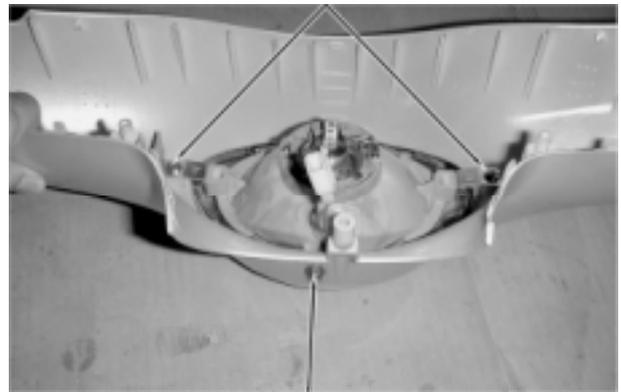
Remove the handlebar front cover. (⇒2)
 Remove the rubber boot from the bulb socket.
 Remove the bulb socket by turning it counter-clockwise.
 Remove the bulb for replacement.
 Install a new bulb, aligning the groove on the bulb socket with the tab on the bulb.
 Install the bulb socket.
 Install the rubber boot.
 Install the front cover. (⇒2)

Bulb Socket



Rubber Boot

Screws



Bolt

HEADLIGHT REMOVAL

Remove the handlebar front cover. (⇒2)
 Remove the two screws attaching the headlight.
 Remove the headlight unit.
 Remove adjust the headlight beam bolt.
 The installation sequence is the reverse of removal.
 After installation, adjust the headlight beam. (⇒3-9)

FRONT TURN SIGNAL LIGHT

Remove the turn signal bulb shell screw. (⇒2)
 Remove the front turn signal bulb socket and replace the bulb.
 The installation sequence is the reverse of removal.



Screw

Position Light Shell

POSITION LIGHT/REAR TURN SIGNAL LIGHT

BULB REPLACEMENT

Remove the bulb shell screw.
 The installation sequence is the reverse of removal.



Turn Signal Bulb Shell

17. LIGHTS/INSTRUMENTS/SWITCHES

IGNITION SWITCH

INSPECTION

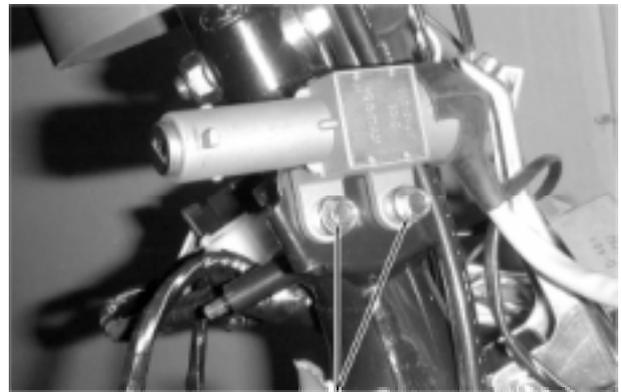
Remove the front cover. (⇒2-4)
Disconnect the ignition switch wire coupler.
Check for continuity between the wire terminals.

Position	BAT1	IG	E	BAT2
LOCK		○ — ○		
OFF		○ — ○		
ON	○ —			○ —
COLOR	Red	Black/White	Green	Black

Replacement

Remove the two mounting bolts to remove the ignition switch holder.
Remove the two screws to remove the ignition switch for replacement.

Ignition Switch Coupler



Ignition Switch Bolts

Headlight Switch

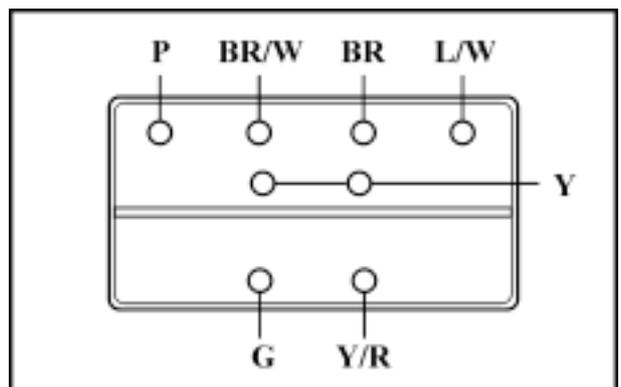


HANDLEBAR SWITCHES

HEADLIGHT SWITCH INSPECTION

Remove the handlebar front and rear covers. (⇒2-4)
Disconnect the headlight switch wire couplers. Check for continuity between the wire terminals.

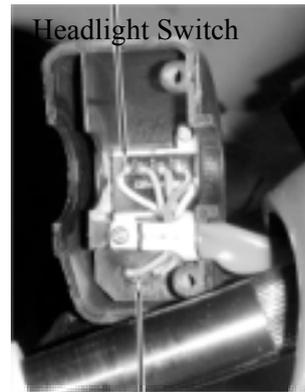
Position	CI	RE	TL	HL	PO
OFF	○ — ○				
N	○ —		○ —		
P	○ —		○ —	○ —	○ —
N	○ —		○ —	○ —	
H	○ —		○ —	○ —	
COLOR	Yellow	Pink	Brown	Blue/White	Brown/White



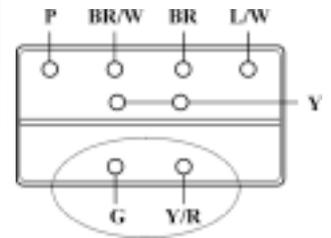
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STARTER SWITCH

POSITION	ST	E
FREE		
PUSH		
COLOR	Yellow/Red	Green



Headlight Switch

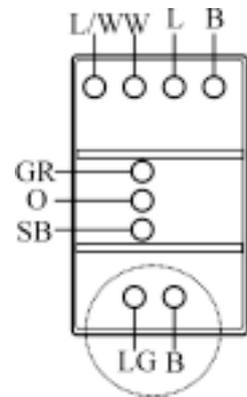


HORN SWITCH

POSITION	HO	BAT
FREE		
PUSH		
COLOR	Light Green	Brown/Blue

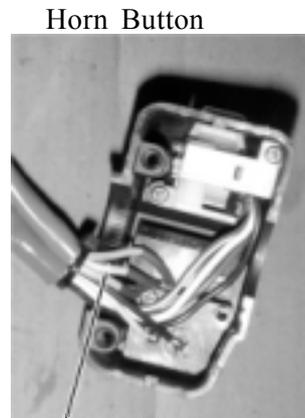


Starter Switch

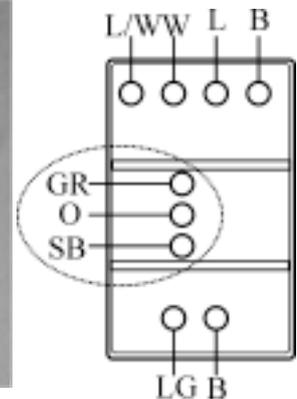


TURN SIGNAL SWITCH

POSITION	R	L	WR
L			
N			
R			
COLOR	Sky Blue	Orange	Gray



Horn Button

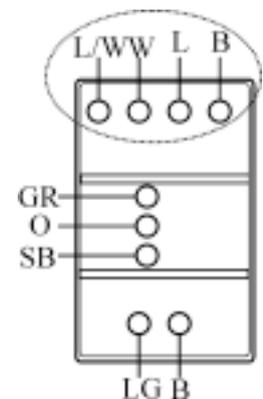


DIMMER SWITCH

POSITION	HI	HL	BAT	LO
PASS				
LO				
N				
HI				
COLOR	Blue	Blue/White	Black	White



Turn Signal Switch



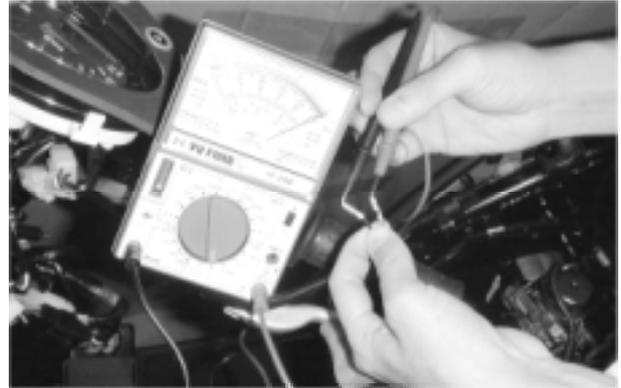
Dimmer Switch

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STOP SWITCH

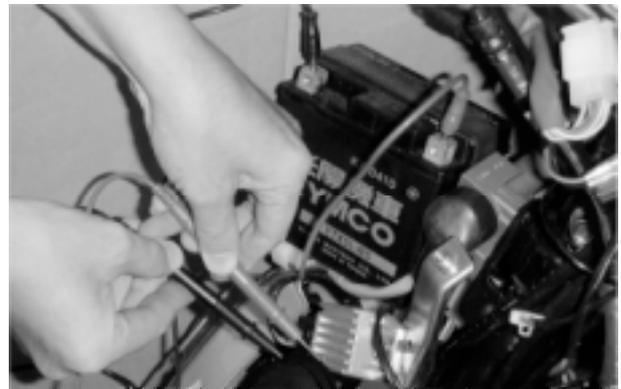
INSPECTION

Remove the handlebar front cover. (⇒2)
 Disconnect the front stop switch wire coupler.
 Check for continuity between the wire terminals when the front brake lever is applied. The switch is normal if there is continuity.



HORN INSPECTION

Remove the front cover. (⇒2)
 Disconnect the horn wire coupler.
 The horn is normal if it sounds when a 12V battery is connected across the horn wire terminals.



FUEL GAUGE

INSPECTION

Remove the rear right side cover. (⇒2)
 Disconnect the fuel gauge wire connector.
 Turn the ignition switch ON.
 Connect the green and yellow/white wires and the fuel gauge needle should move from E to F.
 Connect the green and blue/white wires and the fuel gauge needle should move from F to E.



FUEL UNIT

REMOVAL

Remove the met-in box. (⇒2)
 Remove the rear right side cover. (⇒2)
 Disconnect the fuel unit wire connector.
 Remove the fuel unit.

* Be careful not to bend or damage the fuel unit float arm.



Fuel Unit Connector

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INSPECTION

Measure the resistance between the fuel unit wire terminals with the float at upper and lower positions.

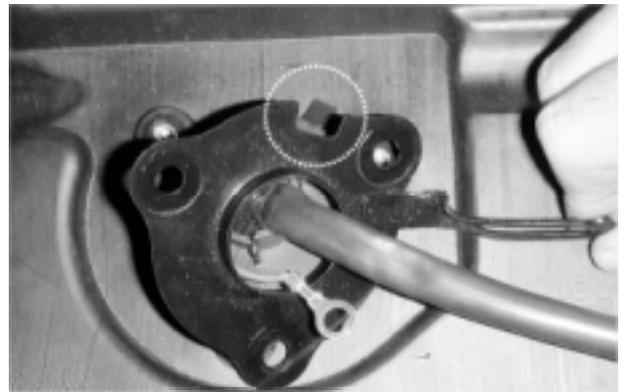
RESISTANCES Unit: \square

Color	Float	Upper		Lower	
	G_ Y/W	26_ 38	450_ 550		
G_ L/W	450_ 550	26_ 38			
Y/W_ L/W	450_ 550	450_ 550			



The installation sequence is the reverse of removal.

- * Install the fuel unit by aligning the groove on the fuel unit with the tab on the fuel tank.



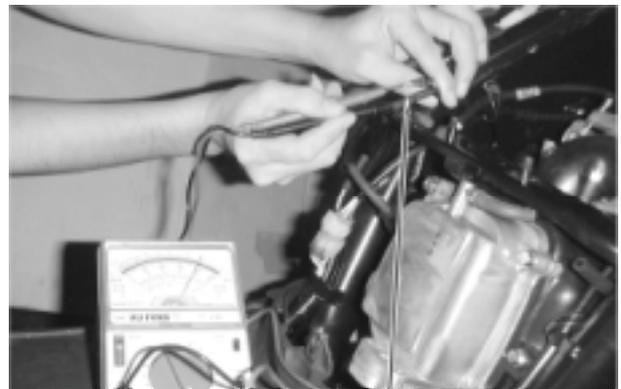
AUTO BYSTARTER

AUTO BYSTARTER INSPECTION

Remove the rear right side cover. (\Rightarrow 2)
Disconnect the auto bystarter wire connector.
Measure the resistance between the yellow and green/black wire terminals.

Resistance: 10 \square max.

- * Perform this operation when the engine is cold.



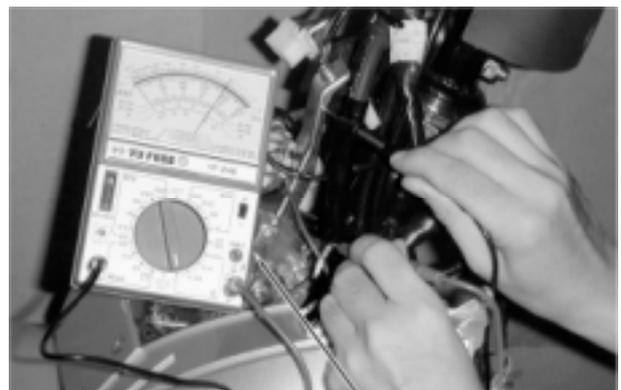
Auto Bystarter

RESISTOR INSPECTION

Remove the front cover. (\Rightarrow 2)
Disconnect the green/black and green wires and measuring the resistance between the wire terminals.

Resistance: 5 \square max.

If the needle remains at “•”, it indicates that the resistor is faulty and must be replaced.



Auto Bystarter Resistor

17. LIGHTS/INSTRUMENTS/SWITCHES

INSTRUMENTS

BULB REPLACEMENT

Remove the front cover. (⇒2)
Remove the bulb socket and replace the bulb.
The installation sequence is the reverse of removal.

INSTRUMENTS REPLACEMENT

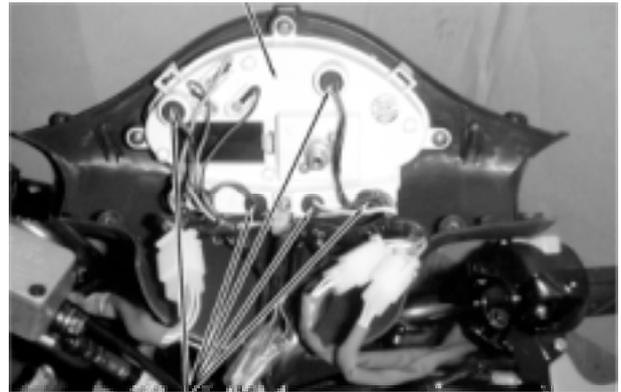
Remove the handlebar front cover. (⇒2)
Remove the handlebar rear cover. (⇒2)
Disconnect the right and left handlebar switches wire couplers.
Disconnect the speedometer cable.
Remove the instrument bulb sockets
Disconnect the three fuel gauge wires.
Remove the instrument wire clamp screw.

Remove the three screws attaching the instruments to the handlebar rear cover.
Remove the instruments.

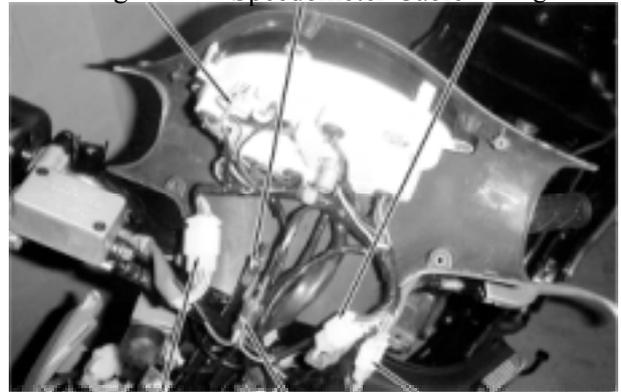
ASSEMBLY/INSTALLATION

The assembly and installation sequence is the reverse of removal.

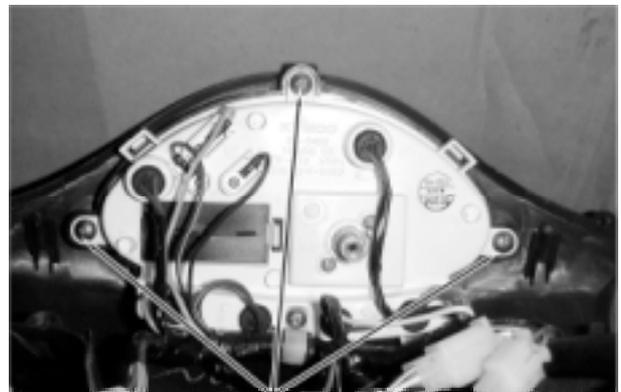
Instruments



Bulb Socket
Fuel Gauge Wires Speedometer Cable
Dimmer/Passing Wires

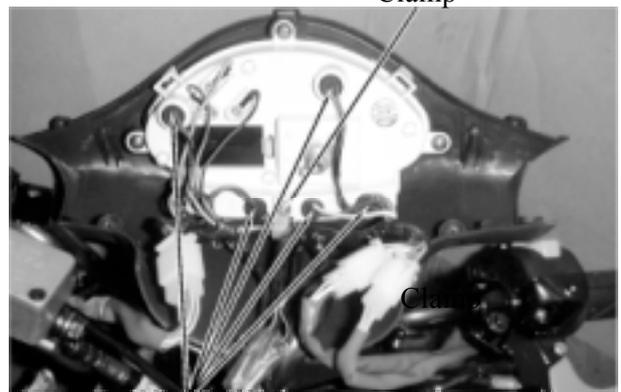


Lighting/Start Wires
Stop Light Wires
Turn Signal Wires



Screws

Clamp



Bulb Socket

17. LIGHTS/INSTRUMENTS/SWITCHES

DISASSEMBLY

Remove the screws to disassemble the instruments.

