

**19. SWITCHES/HORN/FUEL UNIT/THERMOSTATIC SWITCH
/TEMPERATURE GAUGE/INSTRUMENTS/LIGHTS**

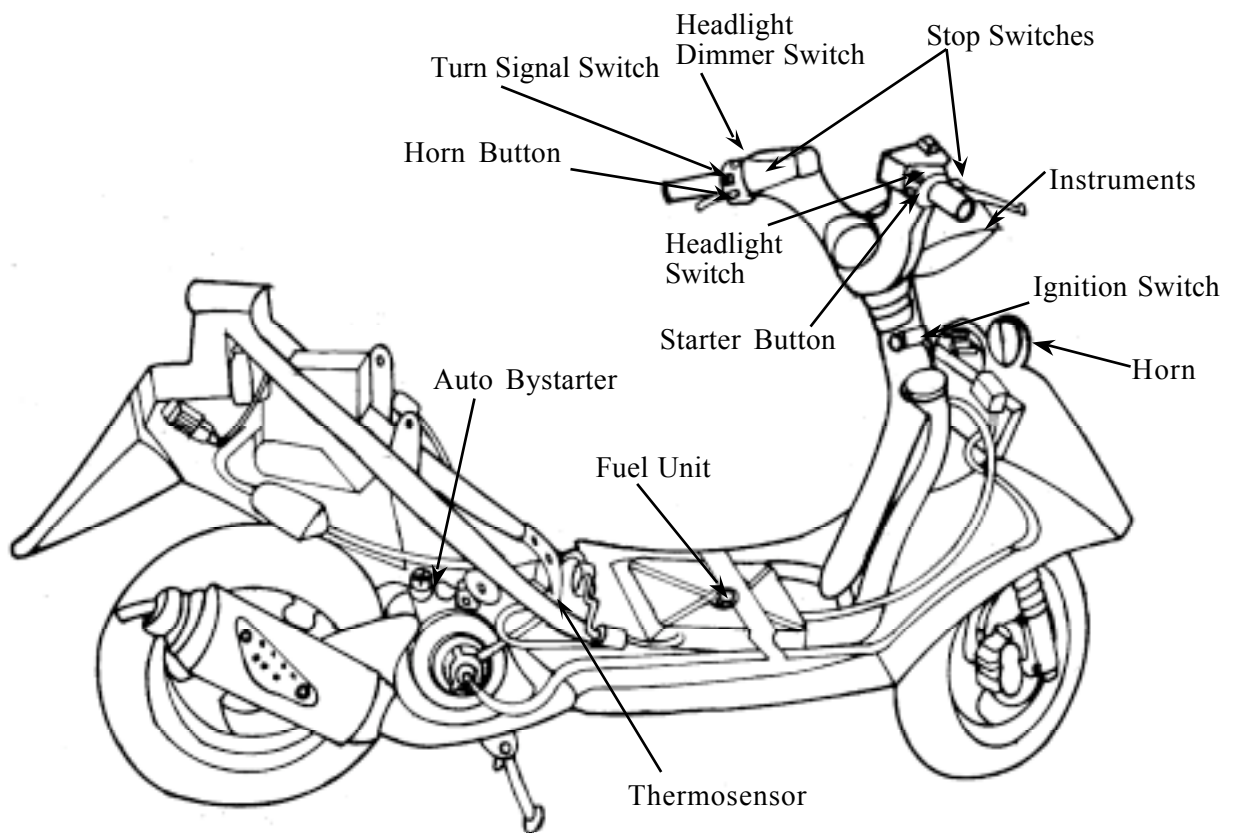
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**SWITCHES/HORN/FUEL UNIT/THERMOSTATIC
SWITCH/TEMPERATURE GAUGE/ INSTRUMENTS/LIGHTS**

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19. SWITCHES/HORN/FUEL UNIT/THERMOSTATIC SWITCH /TEMPERATURE GAUGE/INSTRUMENTS/LIGHTS

ELECTRICAL EQUIPMENT LAYOUT



19. SWITCHES/HORN/FUEL UNIT/THERMOSTATIC SWITCH /TEMPERATURE GAUGE/INSTRUMENTS/LIGHTS

SERVICE INFORMATION

GENERAL INSTRUCTIONS

- 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.

TESTING INSTRUMENT

Electric tester

SPECIAL TOOL

Fuel unit wrench

TROUBLESHOOTING

Lights do not come on when ignition switch is "ON"

- Burned bulb
- Faulty switch
- Poorly connected, broken or shorted wire

Temperature gauge does not register correctly

- Faulty temperature gauge
- Faulty thermosensor
- Broken or shorted wire between temperature gauge and thermosensor

Fuel gauge pointer does not move or register correctly

- Faulty fuel gauge
- Faulty fuel unit
- Poorly connected wire between fuel gauge and fuel unit
- Fuse burned out

SPECIFICATIONS

Fuse	20A
Headlight bulb	12V 35W/35W
Turn signal light bulb	12V 10W
Stoplight/taillight	12V 5W
License plate light	12V 3.4W
Instrument light	12V 1.7W
Position light	12V 3W/5W
Turn signal indicator light	12V 10W

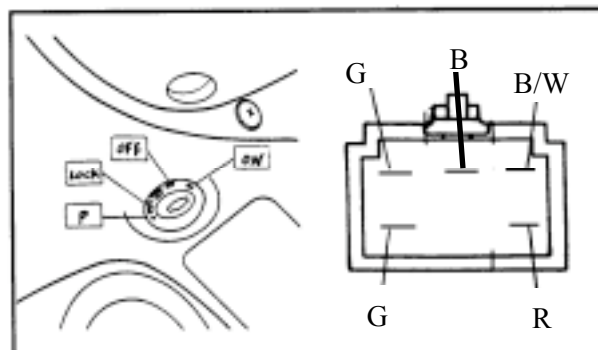
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SWITCHES

IGNITION SWITCH INSPECTION

Remove the frame front covers. (⇒2-5)
Disconnect the ignition switch wire couplers.
Check for continuity between the wire terminals.

Color Position	R	B/W	G	B
LOCK		○—○	○	
OFF		○—○	○	
ON	○—○			○

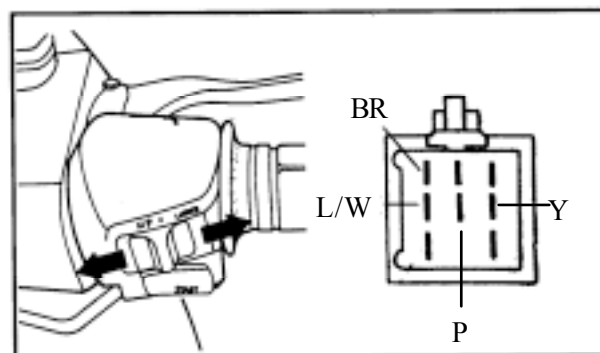


Ignition Switch

HEADLIGHT SWITCH INSPECTION

Remove the frame front covers. (⇒2-5)
Disconnect the headlight switch wire couplers.
Check for continuity between the wire terminals.

Color Position	Y	BR/W	BR	L/W	P
■	○				○
P	○—○	○	○		
H	○—○		○—○	○	

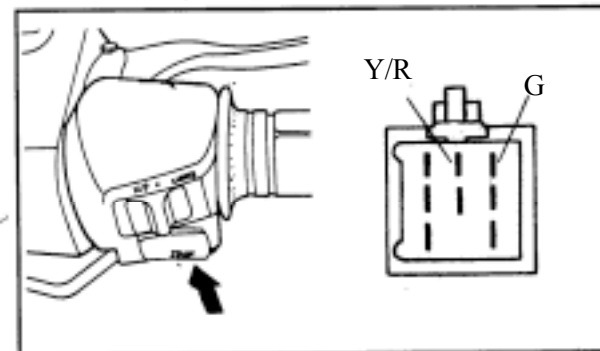


Headlight Switch

STARTER SWITCH INSPECTION

Remove the frame front covers. (⇒2-5)
Disconnect the starter switch wire couplers.
Depress the starter button and check for continuity between the wire terminals.

Color Position	Y/R	G
FREE		
PUSH	○—○	○

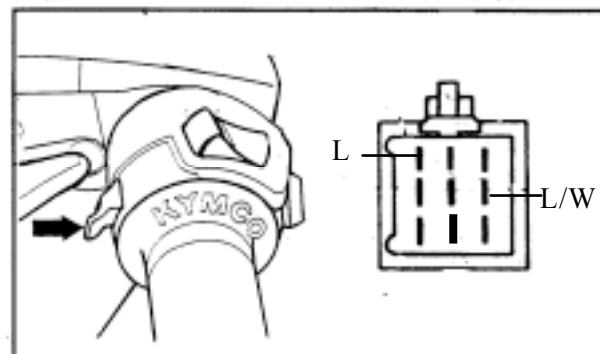


Starter Switch

PASSING SWITCH

Remove the front upper cover. (⇒2-5)
Disconnect the headlight switch wire couplers.
Check for continuity between the passing switch wire terminals.

Color Position	L	L/W
FREE		
PUSH	○—○	○



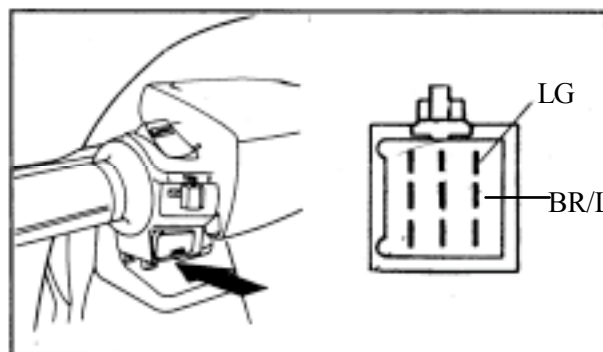
Passing

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HORN BUTTON INSPECTION

Remove the frame front covers. (⇒2-5)
Disconnect the horn wire couplers.
Depress the horn button and check for continuity between the wire terminals.

Color Position	LG	BR/L
FREE		
PUSH	○ —	○

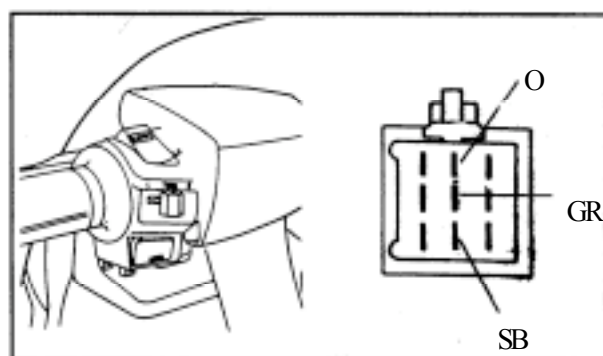


Horn Button

TURN SIGNAL SWITCH INSPECTION

Remove the frame front covers. (⇒2-5)
Disconnect the turn signal switch wire couplers and turn on the turn signal switch.
Check for continuity between the wire terminals.

Color Position	SB	O	GR
L		○ —	○
N			
R	○ —		○

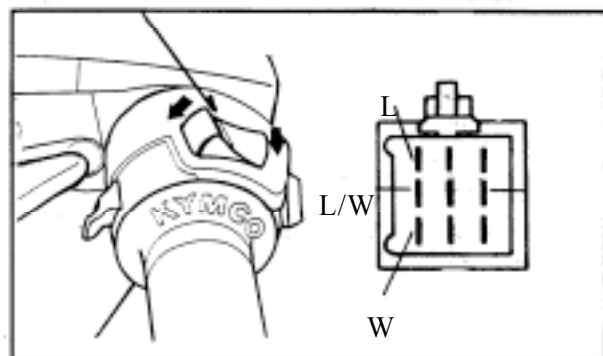


Turn Signal Switch

DIMMER SWITCH INSPECTION

Remove the frame front covers. (⇒2-5)
Disconnect the headlight dimmer switch wire couplers.
Turn on the dimmer switch and check for continuity between the wire terminals.

Color Position	L/W	L	W
LO	○ —		○
N	○ —	○ —	○
HI	○ —		○

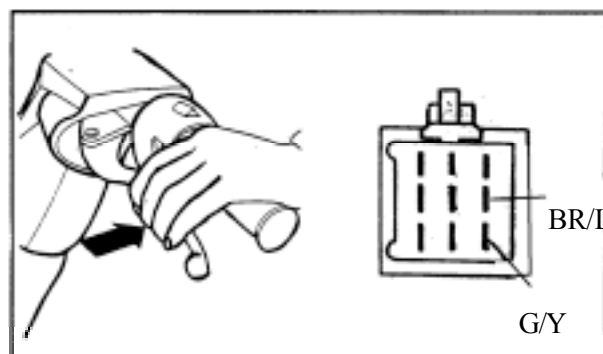


Dimmer Switch

STOP SWITCH INSPECTION

Remove the frame front covers. (⇒2-5)
Disconnect the front/rear stop switch wire couplers.
Check for continuity between the wire terminals when the front brake lever is applied.

Color Position	BR/L	G/Y
FREE		
APPLY	○ —	⊖



Stop Switch

19. SWITCHES/HORN/FUEL UNIT/THERMOSTATIC SWITCH /TEMPERATURE GAUGE/INSTRUMENTS/LIGHTS

HORN INSPECTION

Remove the front upper cover. (⇒2-5)
Disconnect the horn wire couplers.
The horn is normal if it sounds when a 12V battery is connected across the horn wire terminals.

12V Battery



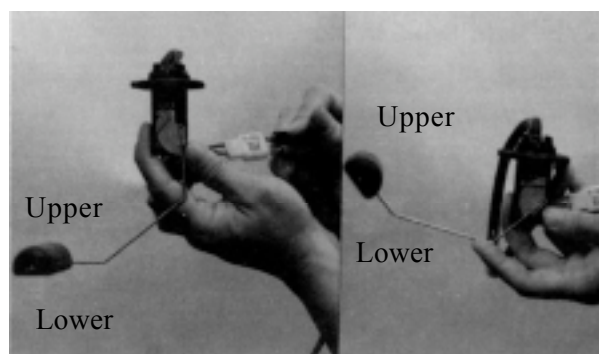
Horn

FUEL UNIT

FUEL UNIT INSPECTION

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

Wire Terminals	Upper	Lower
Y/W_ G	33_ 45Ω	500_ 850Ω
L/W_ G	400_ 700Ω	100_ 200Ω
Y/W_ L/W	450_ 750Ω	450_ 750Ω



FUEL GAUGE INSPECTION

Connect the fuel unit wire connectors and turn the ignition switch "ON".

- * Before performing the following test, operate the turn signals to determine that the battery circuit is normal.

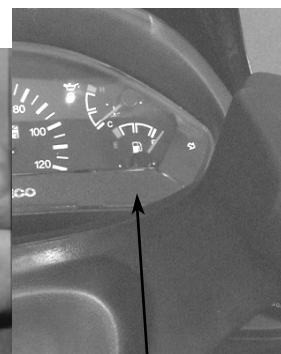
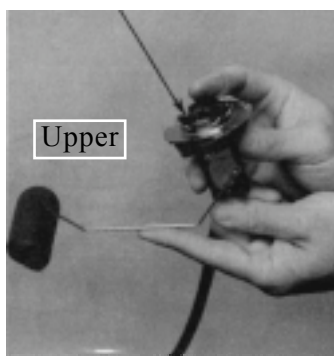
Check the fuel gauge needle for correct indication by moving the fuel unit float up and down.

Float Position	Needle Position
Upper	"F" (Full)
Lower	"E" (Empty)

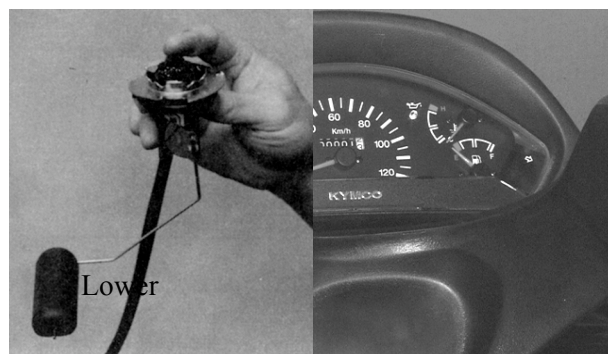
Wire Terminals	Needle Position
Y/W_ G	From E to F
L/W_ G	From F to E

The fuel gauge is normal if it operates as above indicated. If not, check for loosely tightened nuts, poorly connected terminals or shorted wires.

Fuel Unit



Fuel Gauge



Needle moves from F to E.

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OIL METER

INSPECTION

Remove the meter-in box. (⇒2-4)
Remove the frame body cover. (⇒2-4)
Disconnect the oil meter wire connectors and remove the oil meter. Keep the oil meter float at the lower position.
Measure the resistances between the wire terminals as ① and ② shown in the left figure.

Wire Terminals	Resistance
Green/Red(+)_ Black(-)	5_ 16Ω
Green(-)_ Black(+)	∞

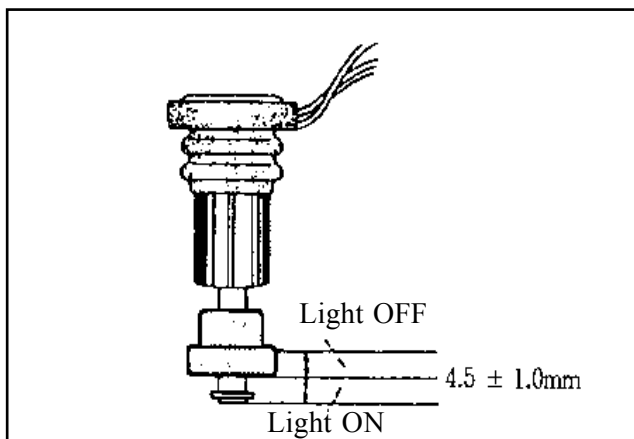
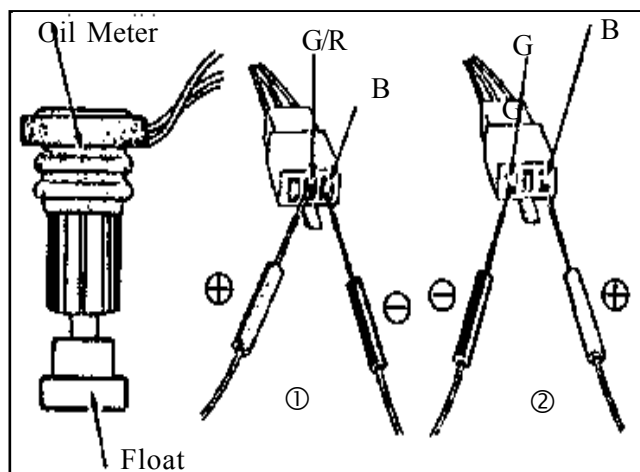
- * Before removing the oil meter, be sure to drain the motor oil and do not allow sparks or flames near the working area.

Oil Meter Operation Inspection

Connect the oil meter wire connectors and turn the ignition switch ON.
Measure the resistance between the wire terminals with the float at upper position.

Green/Red(+)_ Black(-)	About 340Ω
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- * Before performing the following test, operate the turn signals to determine that the battery circuit is normal.



TEMPERATURE GAUGE

Disconnect the wire from the thermosensor and ground it to the engine.
Turn the ignition switch ON.
The temperature gauge needle should move all the way to "H".

- * Do not leave the thermosensor wire grounded for longer than 5 seconds or the temperature gauge will be damaged.

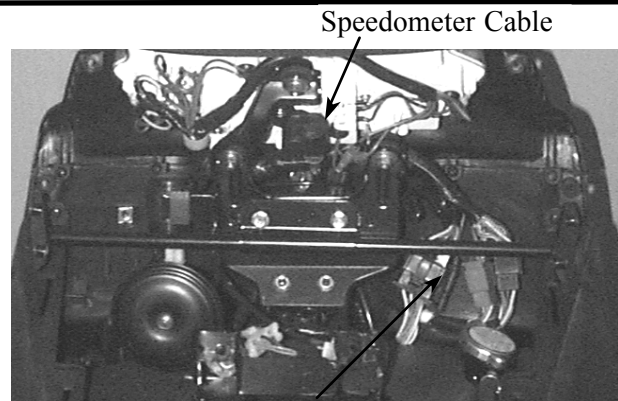


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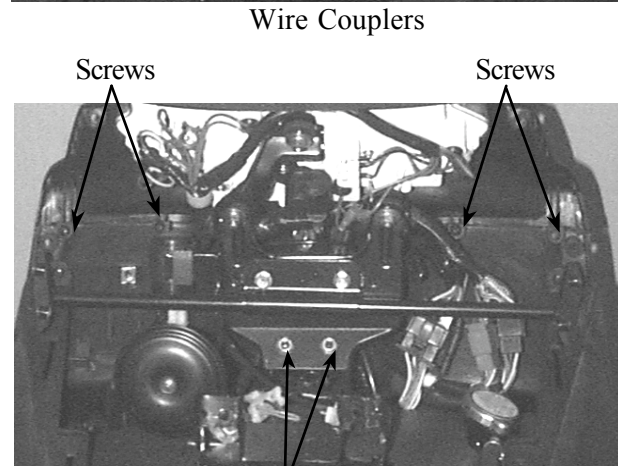
INSTRUMENTS

REMOVAL

Remove the front upper cover. (⇒2-5)
Disconnect the instrument wire couplers and connectors.
Disconnect the speedometer cable.

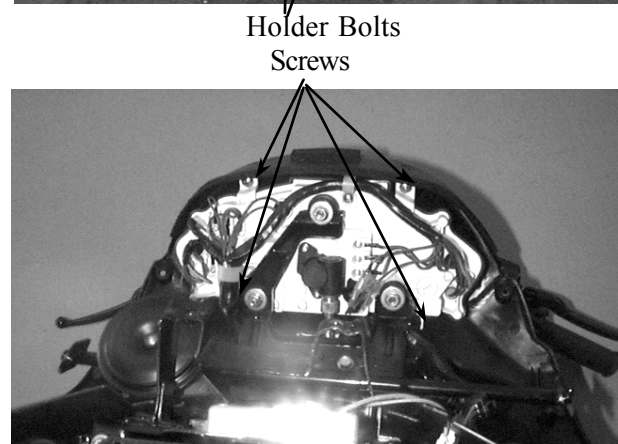


Remove the four instrument cover and leg shield screws.
Remove the two instrument holder bolts.
Remove the instruments.



DISASSEMBLY/ASSEMBLY

Remove the three instrument holder nuts.
Remove the holder.
Remove the four screws to disassemble the instruments and instrument cover .
Assemble the instruments in the reverse order of disassembly.



INSTALLATION

The installation sequence is the reverse of removal.

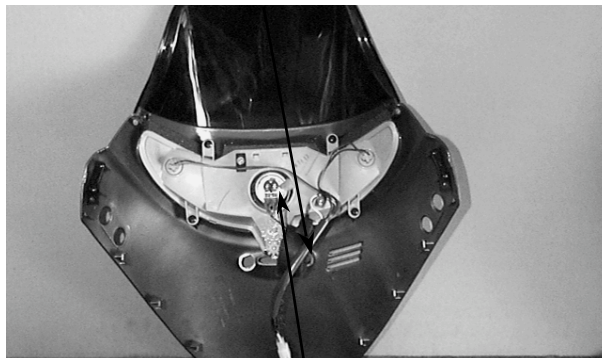
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LIGHTS

HEADLIGHT BULB REPLACEMENT

Remove the front upper cover. (⇒2-5)
Disconnect the headlight and turn signal light wire couplers.
Remove the rubber boot from the bulb socket.
Remove the bulb socket and replace the bulb.
Install the bulb socket, aligning the bulb socket tab with the groove.
Install the rubber boot.
Install the front cover in the reverse order of removal.

Wire

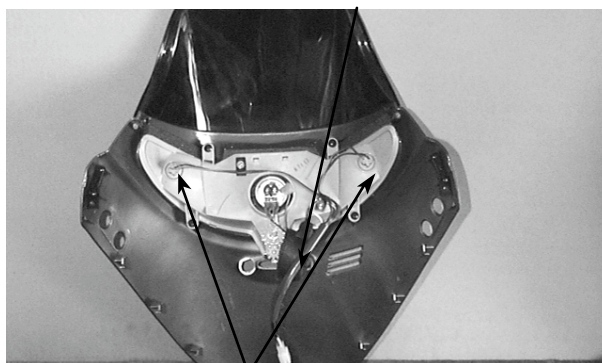


Bulb Socket

FRONT POSITION LIGHT BULB REPLACEMENT

Remove the front upper cover. (⇒2-5)
Disconnect the headlight and turn signal light wire couplers.
Remove the bulb sockets by turning them counterclockwise.
Remove the bulbs and replace them with new ones.

Wire



Front Position Light Bulb Sockets

FRONT TURN SIGNAL LIGHT BULB REPLACEMENT

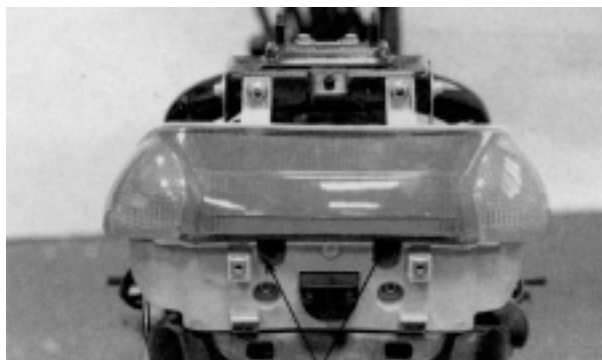
Remove the two screws attaching the turn signal light shell and remove the light shell.
Remove the bulb and replace with a new one.



Screws

TAILLIGHT/REAR TURN SIGNAL LIGHT BULB REPLACEMENT

Remove the rear protective cover. (⇒2-3)
Remove the two screws attaching the rear light shell and remove the light shell.
Remove the bulbs and replace with new ones.
The installation sequence is the reverse of removal.



Screws