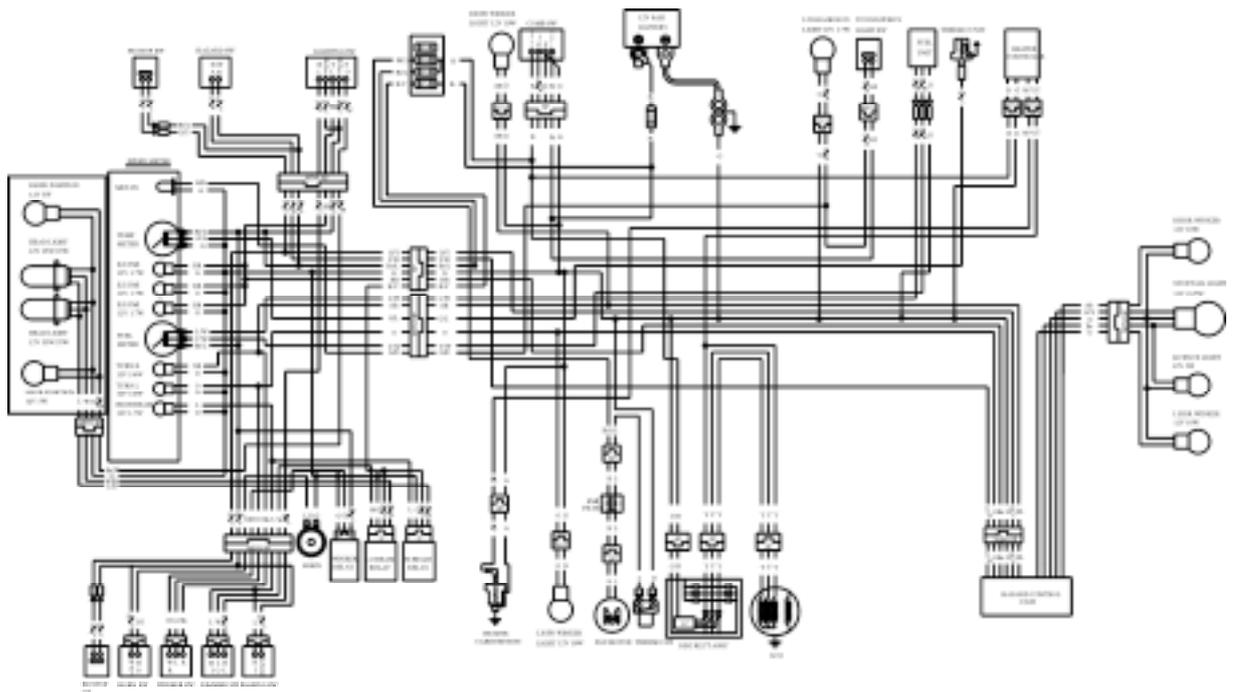
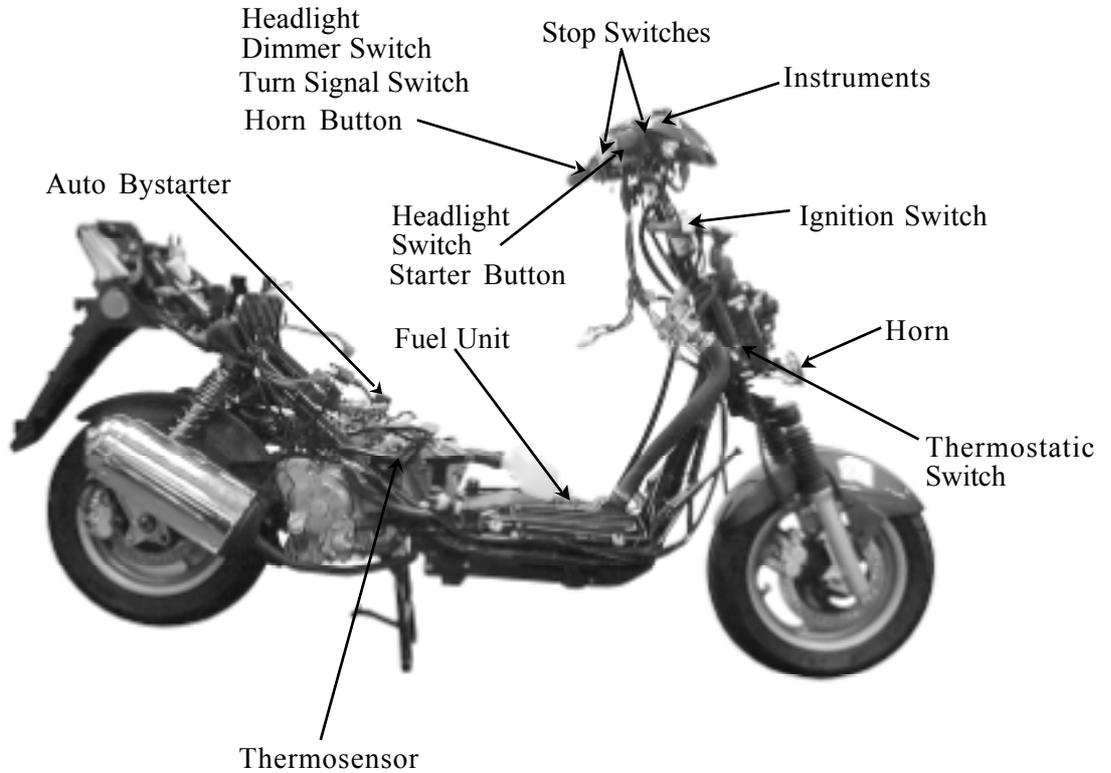


**SWITCHES/HORN/FUEL UNIT/THERMOSTATIC  
SWITCH/TEMPERATURE GAUGE/ INSTRUMENTS/LIGHTS**

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**ELECTRICAL EQUIPMENT LAYOUT**



## 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

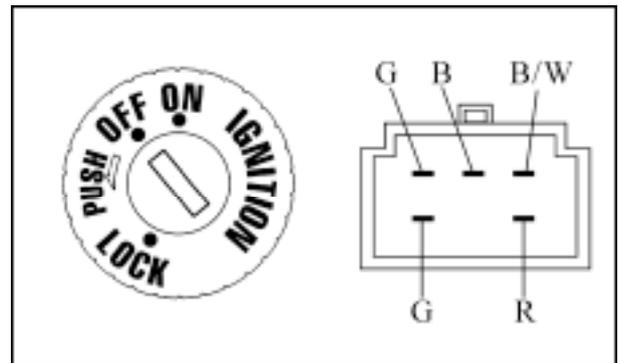
Fuse	20A
Headlight bulb	12V 35W/35W
Turn signal light bulb	12V 10W
Stoplight/taillight	12V 21/5W
License plate light	12V 5W
Instrument light	12V 1.7W
Position light	12V 5W
Turn signal indicator light	12V 3.4W

## SWITCHES

### IGNITION SWITCH INSPECTION

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

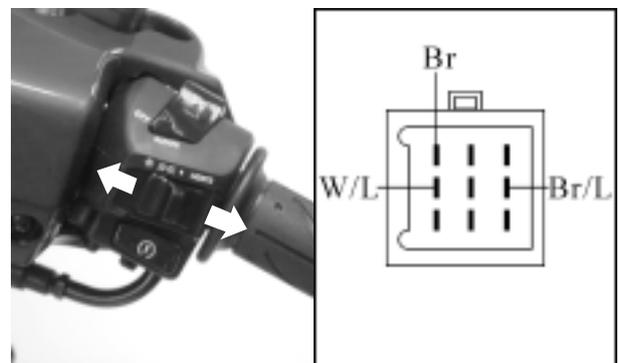
Color Position	Red2	Black/Wh ite	Green	Black
PARK				
LOCK		○ — ○		
OFF		○ — ○		
ON	○ —			○



### HEADLIGHT SWITCH INSPECTION

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

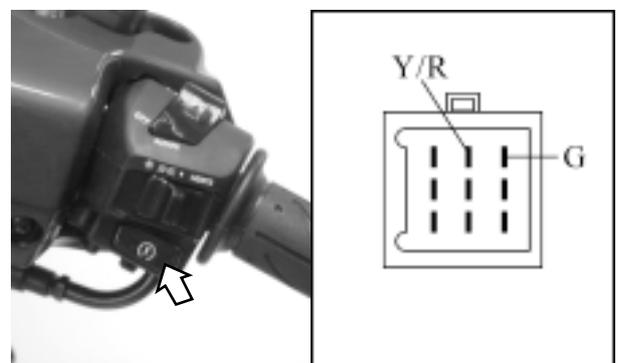
Color Position	White / Blue	Brown/ Blue	Brown
■			
P		○ — ○	○
H	○ —	○ — ○	○



### 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.

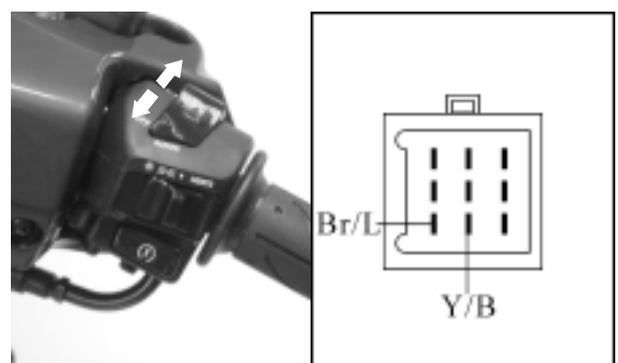
Color Position	Yellow/Red	Green
FREE		
PUSH	○ — ○	○



### HAZARD SWITCH

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

Color Position	Yellow/Black	Gray
OFF		
ON	○ — ○	○

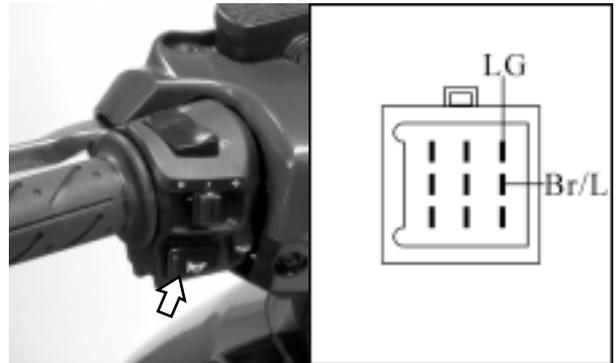


# 19. SWITCHES/HORN/FUEL UNIT/THERMOSTATIC SWITCH /TEMPERATURE GAUGE/INSTRUMENTS/LIGHTS

## 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	Light Green	Brown/Blue
FREE		
PUSH	○ — ○	○ — ○

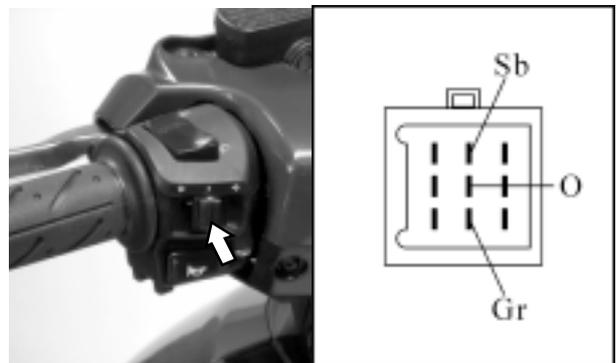


Horn Button

## 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	Light Blue/ White	Gray	Orange/ White
L		○ — ○	○ — ○
N			
R	○ — ○	○ — ○	

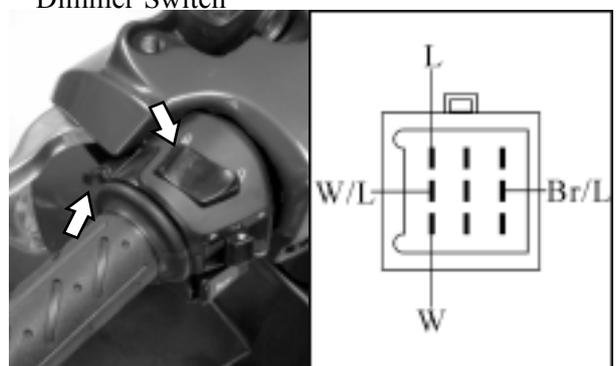


Turn Signal Switch

## 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	White/ Blue	Blue	White	Brown/ Blue
LO	○ — ○		○ — ○	
HI	○ — ○	○ — ○		
PASSING		○ — ○		○ — ○



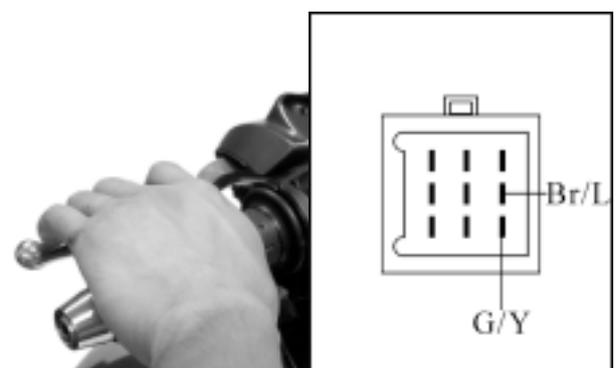
PASSING

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	Brown/Blue	Green/Yellow
FREE		
APPLY	○ — ○	○ — ○

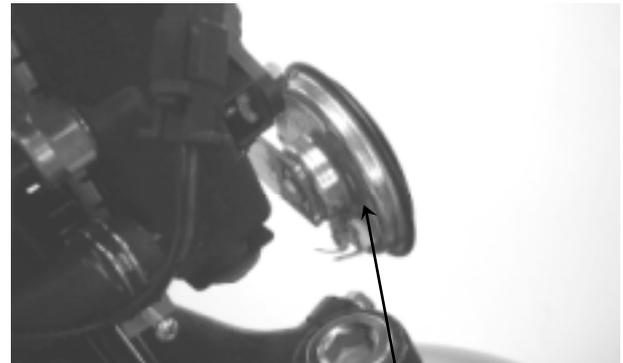


Stop Switch

# 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.



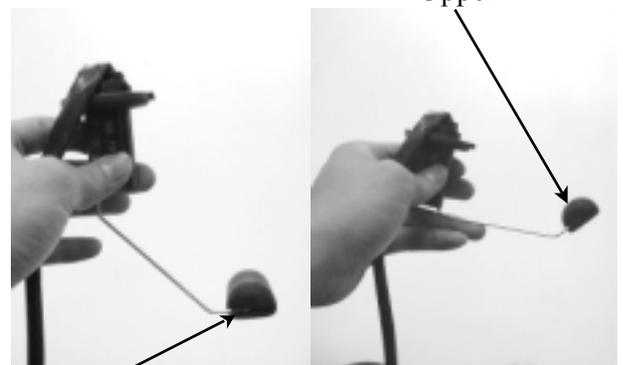
Horn

## 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_ 45□	500_ 850
L/W_	G	400_ 700	100_ 200
Y/W_	L/W	450_ 750	450_ 750



Upper

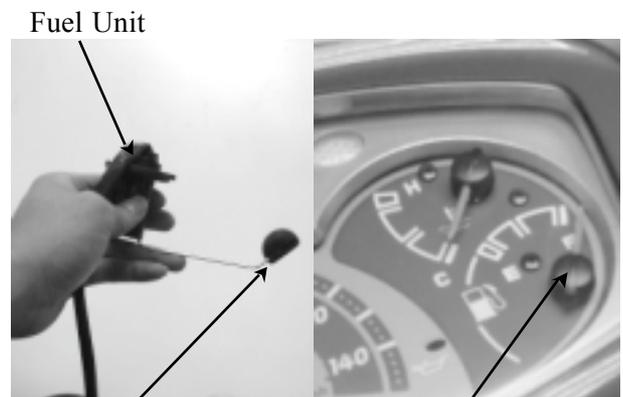
Lower

### 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.



Fuel Unit

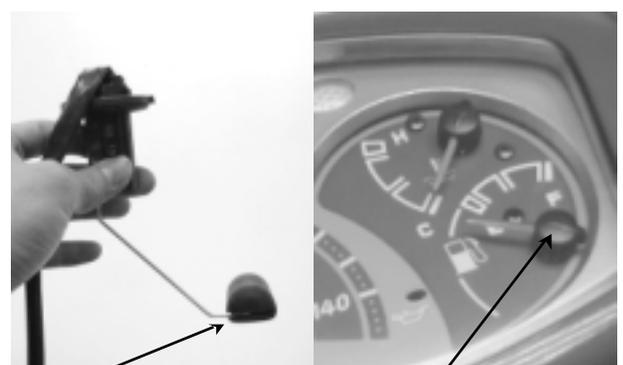
Upper

Fuel Gauge

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.



Lower

Needle moves from F to E.

## THERMOSTATIC SWITCH

### INSPECTION

Remove the front covers. (⇒2-5)  
Start and run the engine to make the water temperature reaches  $85^{\circ}\text{C}$  -  $90^{\circ}\text{C}$  and check if the cooling fan motor operates. Lower the water temperature to  $85^{\circ}\text{C}$  and check if the fan motor stops. If the fan motor does not start, disconnect the wires from the thermostatic switch and then connect a jumper wire between the wire harness and thermosensor wires (black and green wires).

Turn the ignition switch ON. The thermostatic switch is faulty if the cooling fan motor runs properly. If it does not start, check for voltage between the fan motor coupler wire terminals (black - green). If there is no voltage, check for the following:

- Blown or faulty fuse
- Loose terminals or connectors
- Shorted wire in the wire harness

## TEMPERATURE GAUGE

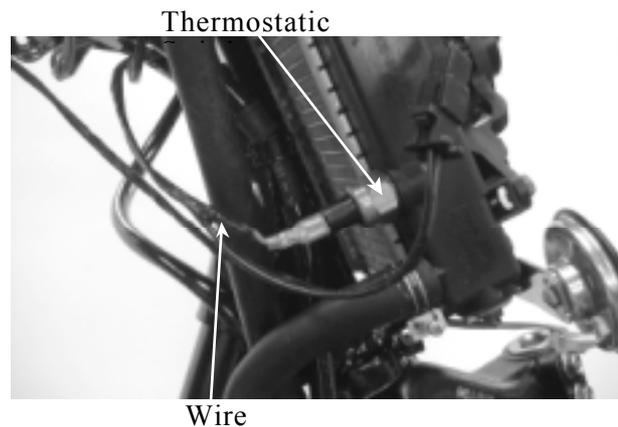
Disconnect the wire from the thermosensor and ground it to the engine. Turn the ignition switch ON. The temperature gauge needle should move all the way to "H".

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

## HEATER CONTROLLER UNIT

### INSPECTION

1. Open ignition switch to check if the black wire of it is enough voltage.
  2. Put the heater controller unit in refrigerator. Start engine after keeping the temperature under  $10 \pm 4^{\circ}\text{C}$ .
  3. Check if the yellow wire of heater controller unit has output voltage.
- Start engine and if the temperature of heater controller unit is under  $10 \pm 4^{\circ}\text{C}$ . Check if the white/blue wire of heater controller unit has output voltage. If it has not any voltage. It is damaged.

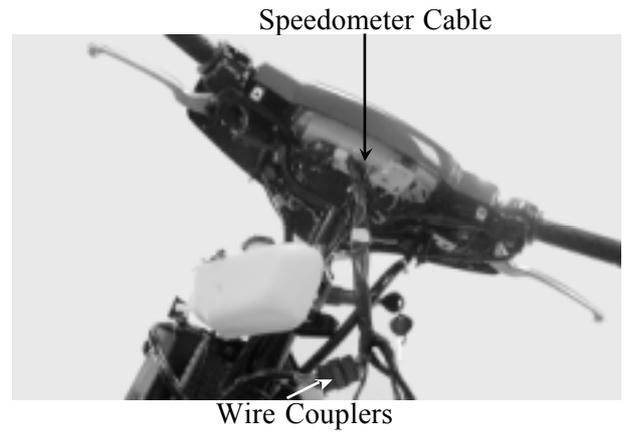


# 19. SWITCHES/HORN/FUEL UNIT/THERMOSTATIC SWITCH /TEMPERATURE GAUGE/INSTRUMENTS/LIGHTS

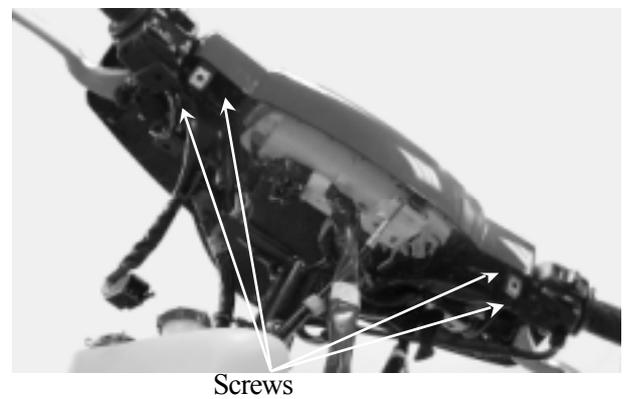
## INSTRUMENTS

### REMOVAL

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

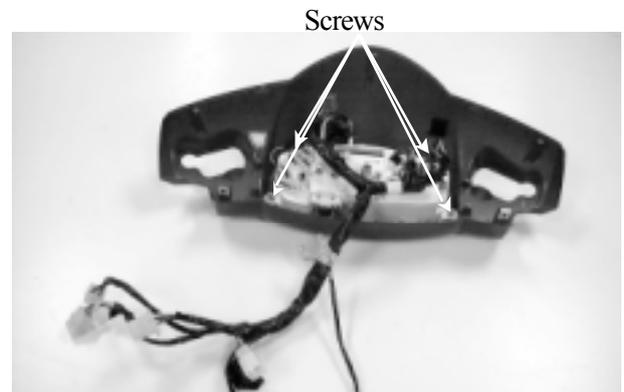


Remove the four instrument cover and leg shield screws.  
Remove the instruments.



### 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.



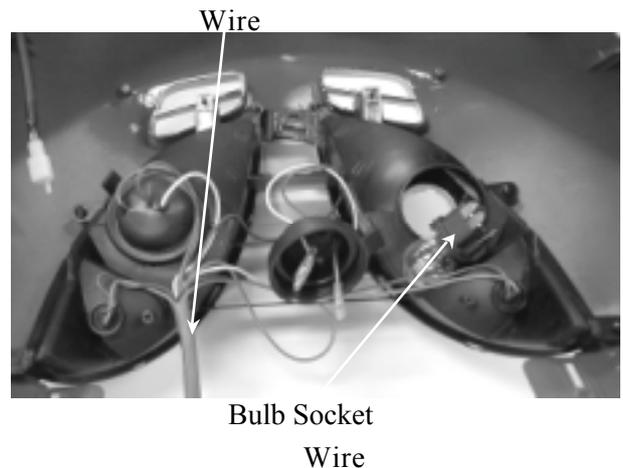
### INSTALLATION

The installation sequence is the reverse of removal.

## LIGHTS

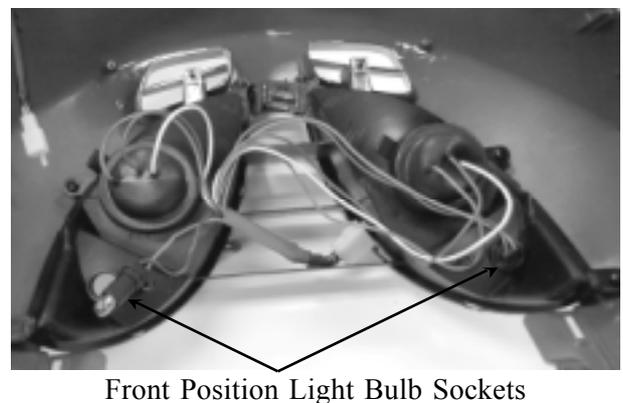
### HEADLIGHT BULB REPLACEMENT

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.



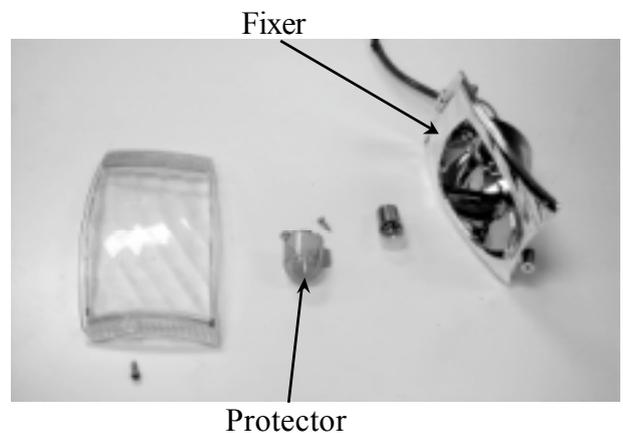
### FRONT POSITION LIGHT BULB REPLACEMENT

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.



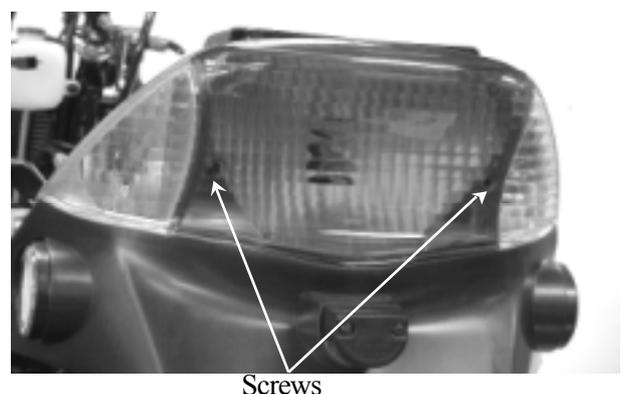
### FRONT TURN SIGNAL LIGHT BULB REPLACEMENT

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



### 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.



HEATER WIRING DIAGRAM

