

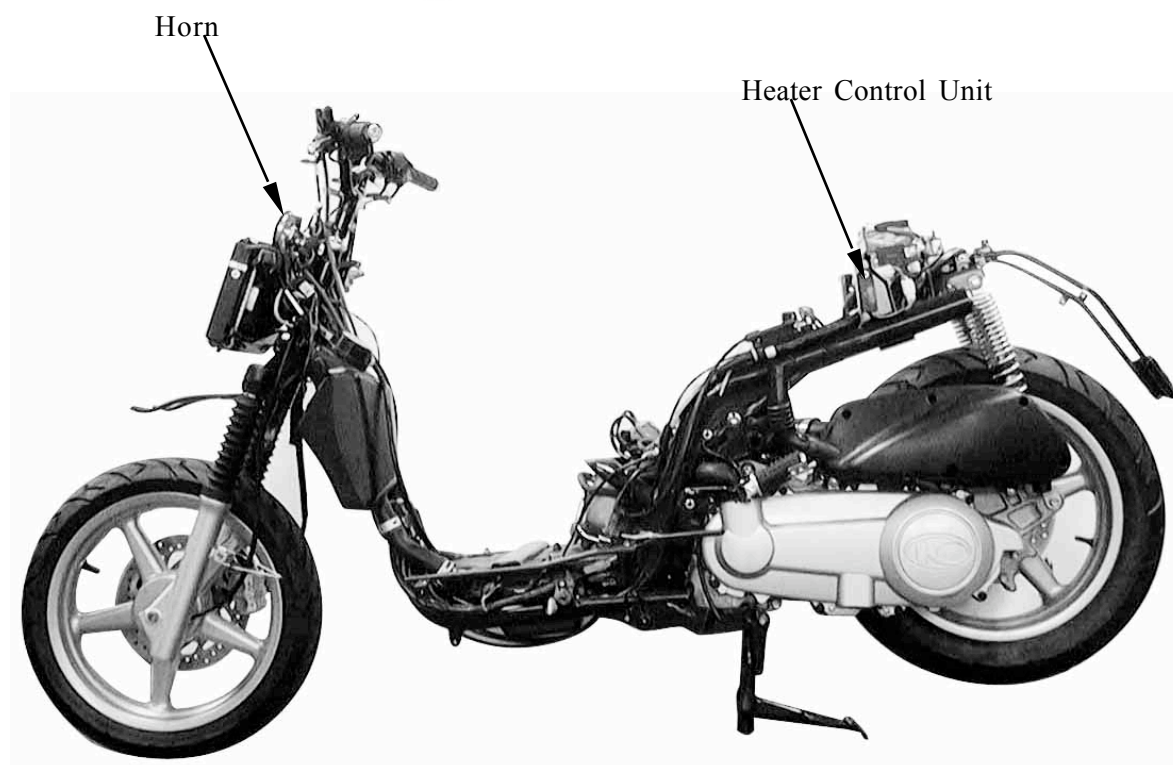
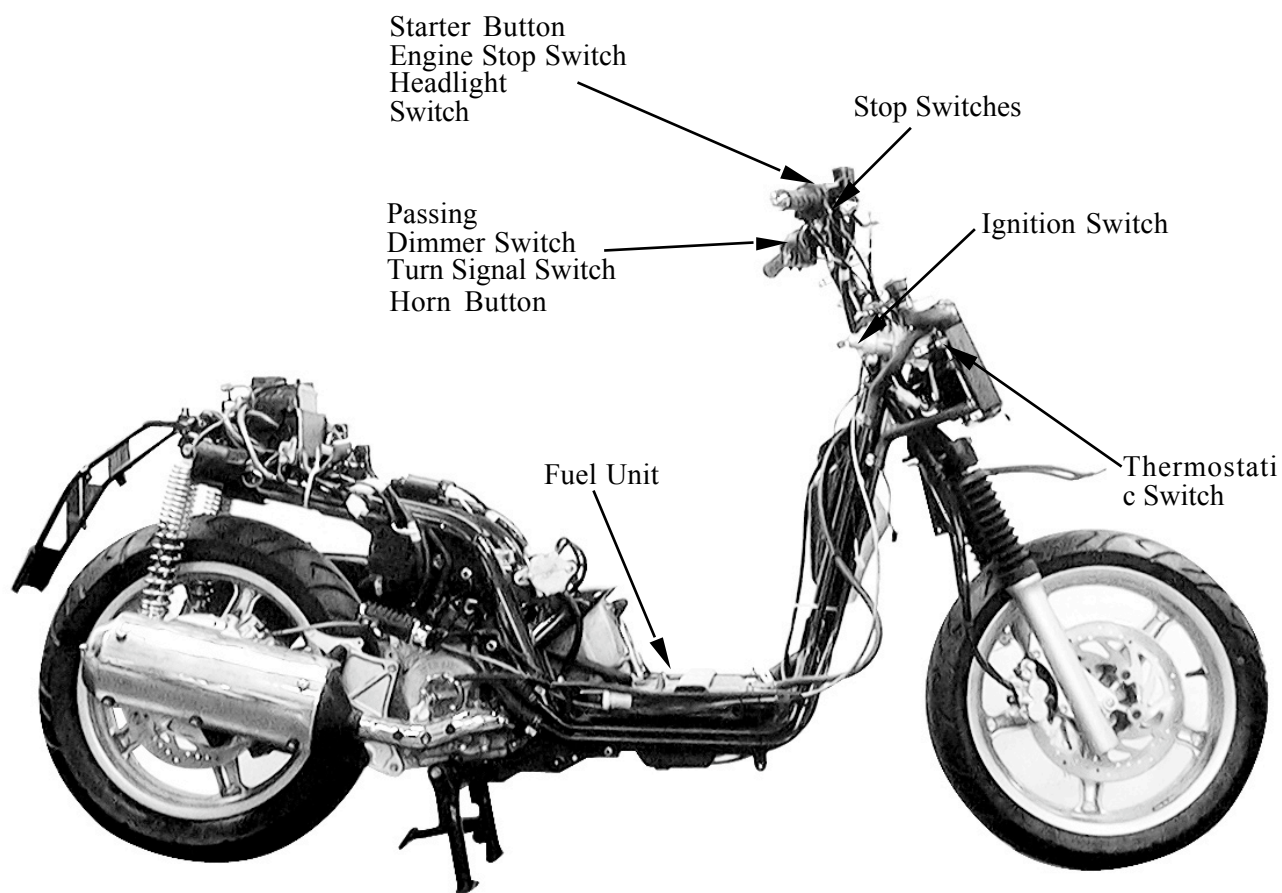
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**SWITCHES/HORN/FUEL UNIT/THERMOSTATIC  
SWITCH/TEMPERATURE GAUGE/ INSTRUMENTS/LIGHTS**

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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

## 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

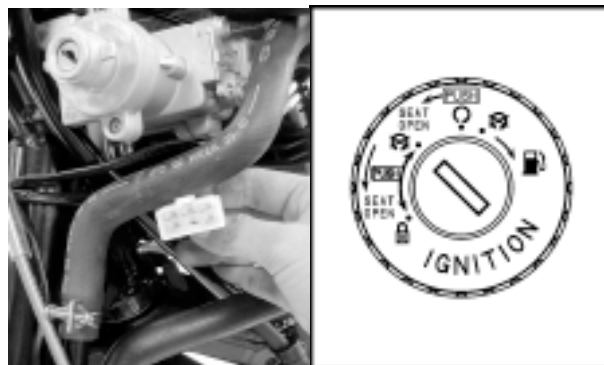
Fuse	10A,15A,30A
Headlight bulb	12V 35W/35W
Turn signal light bulb	12V 10W
Stoplight/taillight	12V 21/5W
License plate light	12V 5W
Position light	12V 5W
Turn signal indicator light	12V 3W

## SWITCHES

### IGNITION SWITCH INSPECTION

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

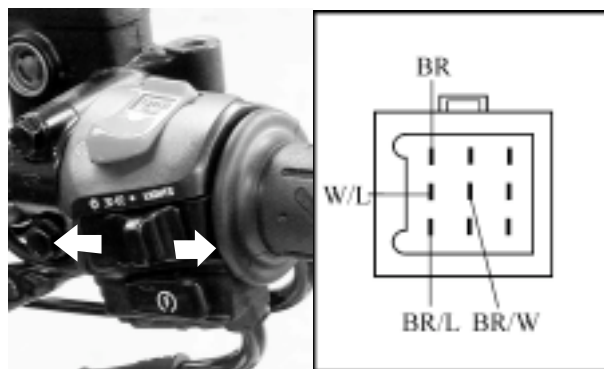
Color Position	Red	Black/White	Green	Black
PARK				
LOCK		○ — ⊖		
OFF		○ — ⊖		
ON	○ —			⊖



### HEADLIGHT SWITCH INSPECTION

Remove the handlebar front covers. (⇒2-3)  
Disconnect the headlight switch wire couplers.  
Check for continuity between the wire terminals.

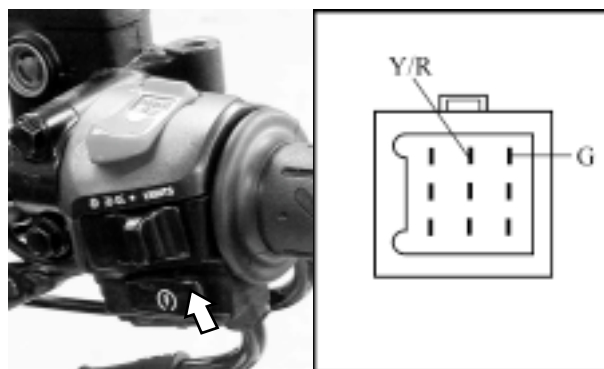
Color Position	White / Blue	Brown / Blue	Brown	Brown / White
■				
P		○ — ⊖ — ⊖		
H	○ —	⊖ — ⊖	⊖	



### STARTER SWITCH INSPECTION

Remove the handlebar front covers. (⇒2-3)  
Disconnect the starter switch wire couplers.  
Depress the starter button and check for continuity between the wire terminals.

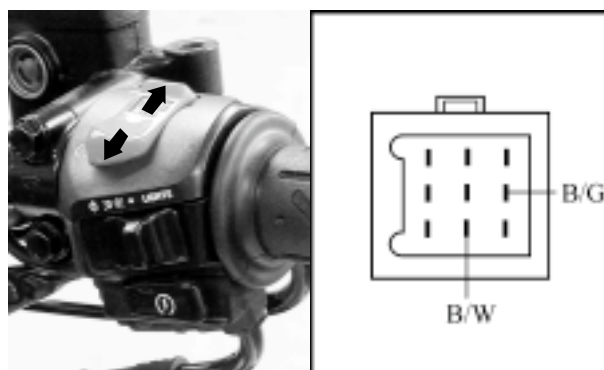
Color Position	Yellow/Red	Green
FREE		
PUSH	○ — ⊖	⊖



### ENGINE STOP SWITCH

Remove the handlebar front cover. (⇒2-3)  
Disconnect the wire couplers.  
Checks for continuity between the engine stop switch wire terminals.

Color Position	Black/White	Black/Green
OFF		
ON	○ —	⊖



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

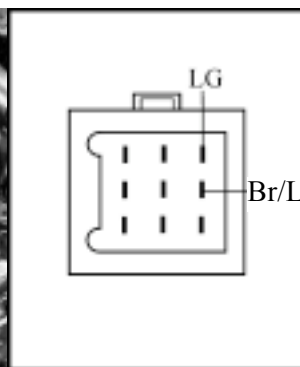
## HORN BUTTON INSPECTION

Remove the handlebar front covers. (⇒2-3)  
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



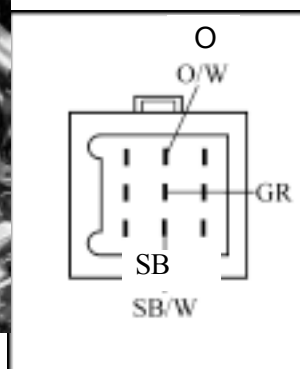
## TURN SIGNAL SWITCH INSPECTION

Remove the handlebar front covers. (⇒2-3)  
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	Gray	Orange
L		○ —	— ⊖
N			
R	○ —	— ⊖	



Turn Signal Switch

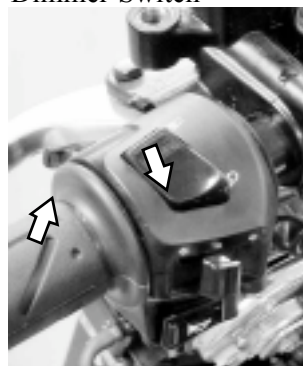


## DIMMER SWITCH INSPECTION

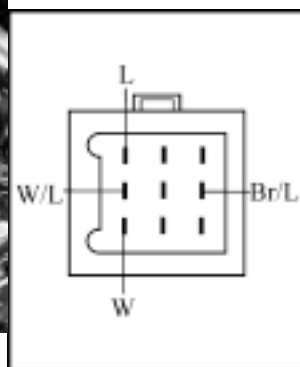
Remove the handlebar front covers. (⇒2-3)  
Disconnect the headlight dimmer switch wire couplers.  
Turn on the dimmer switch and check for continuity between the wire terminals.

Color Position	White/Blue	Blue	White	Brown/Blue
LO	○ —		— ⊖	
HI	○ —	— ⊖		
PASSING		○ —		— ⊖

Dimmer Switch



PASSING



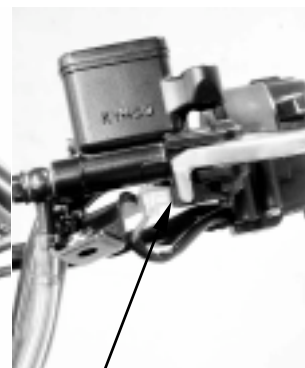
## STOP SWITCH INSPECTION

Remove the handlebar front covers. (⇒2-3)  
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



Stop Switch



## HORN INSPECTION

Remove the front 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

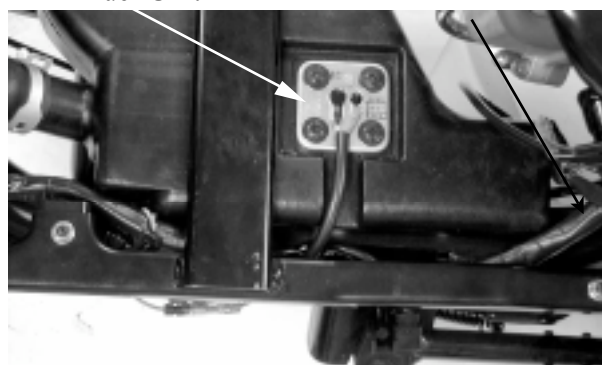
### FUEL UNIT INSPECTION

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	9.1_ 9.3□	95_ 96□

Use the □ range for YF-3501

Fuel Unit



### FUEL METER 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.

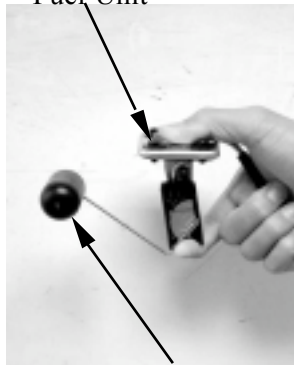
Check the fuel meter for correct indication by moving the fuel unit float up and down.

Float Position	Display
Upper	Much (Full)
Lower	Less (Empty)

Wire Terminals	Display
Free	From Much to Less
Apply	From Less to Much

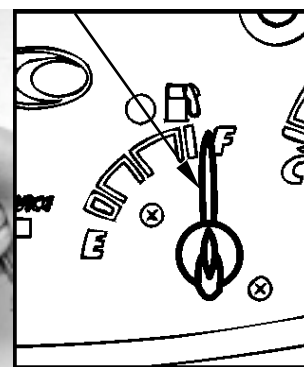
The fuel meter is normal if it operates as above indicated. If not, check for loosely tightened nuts, poorly connected terminals or shorted wires.

Fuel Unit

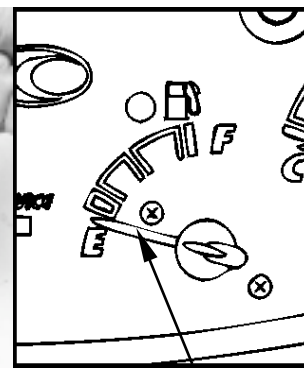


Upper

Fuel Full



Lower



Fuel Empty

### 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).

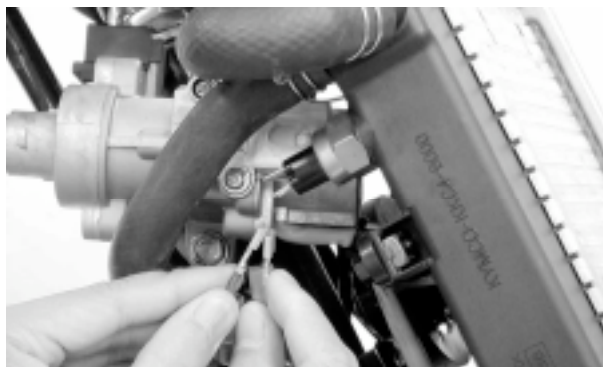
Turn the ignition switch ON. The thermostatic switch is faulty if the cooling fan motor runs properly.  
If it does not start, check for voltage between the fan motor coupler wire terminals (black - green).  
If there is no voltage, check for the following:

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



Wire

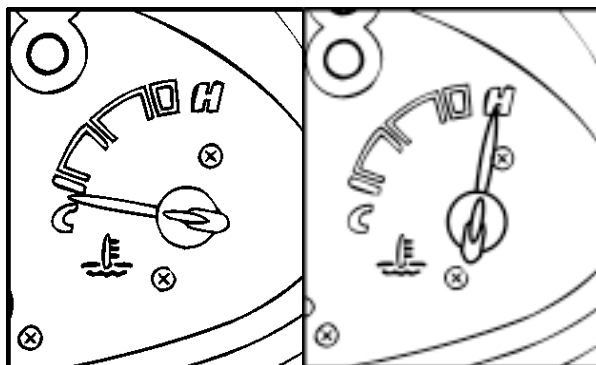
Thermostatic



### TEMPERATURE METER

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 brown/blue 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/yellow wire of heater controller unit has output voltage. If it has not any voltage. It is damaged.



## THROTTLE POSTTION SENSOR

Unit:K□

	V/R	V/G	V/B
V/R		4~6	∞
V/G	4~6		0~5±1
V/B	∞	0~5±1	



T.P.S.

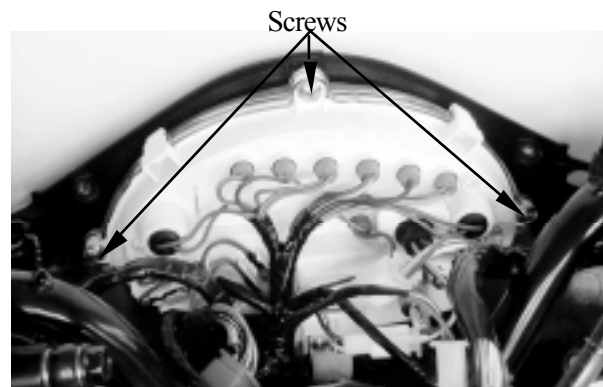
## INSTRUMENTS

### REMOVAL

Remove the handlebar rear cover. (⇒2-4)  
Remove the three screws under instruments.  
Remove the instruments from the handlebar rear cover.

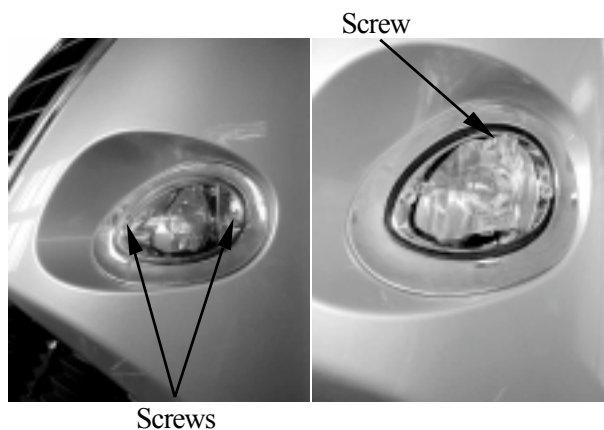
### INSTALLATION

The installation sequence is the reverse of removal.



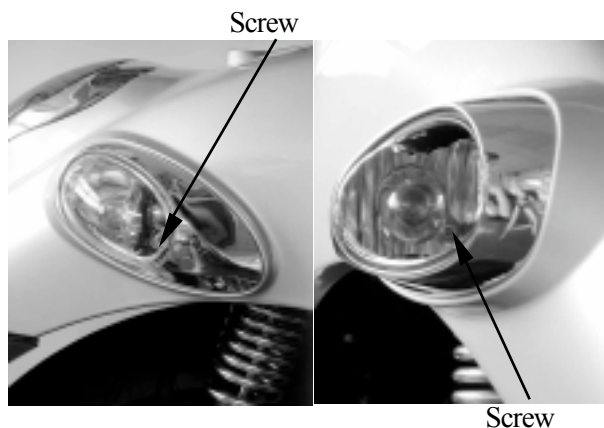
### FRONT TURN SIGNAL LIGHT BULB REPLACEMENT

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



### REAR TURN SIGNAL LIGHT BULB REPLACEMENT

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

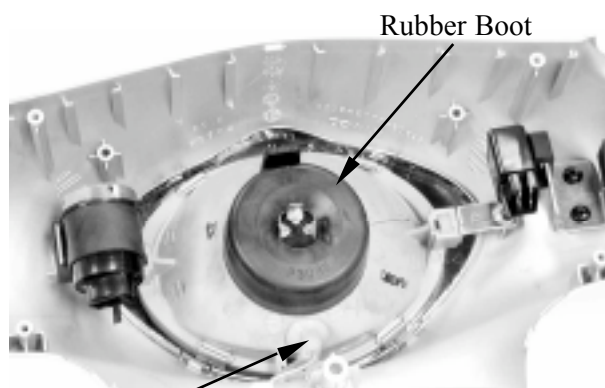




## FRONT POSITION LIGHT /HEADLIGHT BULB REPLACEMENT

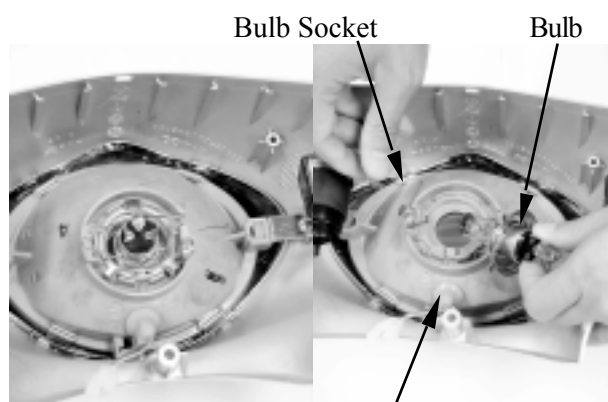
Remove the handlebar front cover. (⇒2-3)  
Remove the bulb socket by turning them  
counterclockwise.  
Remove the bulb and replace with new one.

Disconnect the headlight wire couplers.  
Remove the rubber boot from the bulb socket.



Front Position Light Bulb Socket

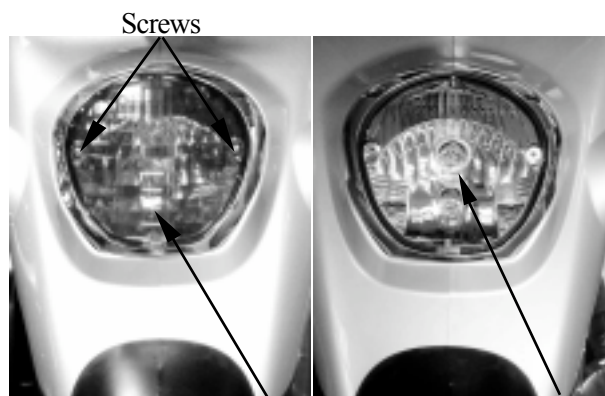
Relax the lock clip to remove the bulb and  
replace with new one.  
Install the bulb, aligning the bulb socket tab  
with the groove and set the lock clip.  
Install the rubber boot.  
Install the handlebar front cover in the reverse  
order of removal.



Front Position Light Bulb

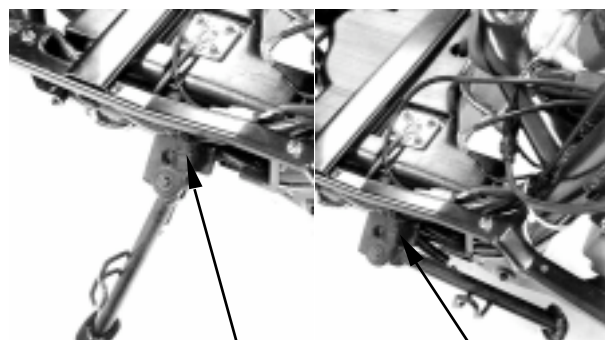
## TAILLIGHT LIGHT BULB REPLACEMENT

Remove the two screws attaching the rear  
light shell and remove the light shell.  
Remove the bulb and replace with new ones.  
The installation sequence is the reverse of  
removal.



## SIDE STAND SWITCH

Color Position	Yellow/ Green	Green	Yellow/ Black
DOWN		○ — ⊖	⊖
UP	○ — ⊖	⊖	



Side Stand Switch

Side Stand Switch

**HEATER WIRING DIAGRAM**

