SUBARU

DL
GL
GLF

DESCRIPTION

Subaru models may be equipped with either of 2 dashboards. The DL models have a speedometer with fuel and temperature gauges. The GL and GLF models also have a tachometer, oil pressure gauge and voltmeter. The steering column lever operates the turn signals and headlight dimmer. Rotary switches on either side of the instrument cluster control the lights and wipers.

OPERATION

Fuel and temperature gauges use a regulated 7 volt supply to ensure accurate readings. The voltage regulator is in the fuel gauge. The oil pressure gauge does not have a regulated voltage supply and operates on 12 volts. All the gauges use variable-resistance sending units.

TESTING

FUEL GAUGE

1) Turn ignition off. If gauge does not drop below "E", replace it. Turn ignition on. Check temperature gauge operation. If temperature gauge does not work, check fuel and wiring to terminal 21 on the back of instrument cluster.

2) Unplug fuel tank sender. Connect a 7 ohm resistor between sending unit wire and ground. Fuel gauge should read "F". If so, replace fuel tank sending unit. If not, check for 7 volts at sending unit wire.

3) If voltage is present at sending unit wire, replace fuel gauge. If not, check for 7 volts at terminal 9 (Black/Yellow wire) at back of instrument cluster. If voltage is present, repair wiring to fuel sending unit. If no voltage, replace temperature gauge.

TEMPERATURE GAUGE

1) Turn ignition off. If gauge needle does not drop below "C", replace it. Turn ignition on and check fuel gauge operation. If fuel gauge does not work check fuse and wiring to terminal 21 on back of instrument cluster.

2) Unplug temperature sending unit wire at sending unit. Connect a 52 ohm resistor between wire and ground. Temperature gauge should indicate about 190° F (86° C). If so, replace sending unit. If not, check for 7 volts at sending unit wire.

3) If voltage, is present, replace temperature gauge. If no voltage is present at sending unit wire, check for 7 volts at terminal 8 of 12-pin connector on instrument cluster (Yellow/Green wire). If voltage is present, repair wiring to sending unit. If no voltage, replace temperature gauge.

OIL PRESSURE GAUGE

1) Turn ignition off. Gauge needle should drop. If not, replace gauge. Turn ignition on. Check for power at terminals 29 (Black/White wire) and 32 (Yellow/Black wire) at back of cluster. If voltage is not present, repair fuse or wiring.

2) If voltage is present, check gauge operation. If inaccurate, unplug wire from sending unit. Connect a 140 ohm resistor between wire and ground. Gauge should indicate about 55 psi. If so, replace sending unit. If not, replace gauge.

VOLTMETER

1) Turn ignition off. If voltmeter needle does not drop, replace voltmeter. Turn ignition on. If needle does not rise, check fuse. If fuse is good, check for battery voltage at terminal 35 (Black/White wire) at back of cluster. If no voltage, repair wiring to cluster.

2) If voltage is present at meter, turn off all accessories and connect a fully-charged battery. If meter does not indicate 11.5-12.5 volts, replace it.

REMOVAL & INSTALLATION

INSTRUMENT CLUSTER & SWITCHES

Removal – 1) Disconnect battery ground cable. Remove steering column bracket bolts and drop column down. Remove screws from cluster cover. On GL and GLF models, screws are hidden inside vents on either side of cluster.

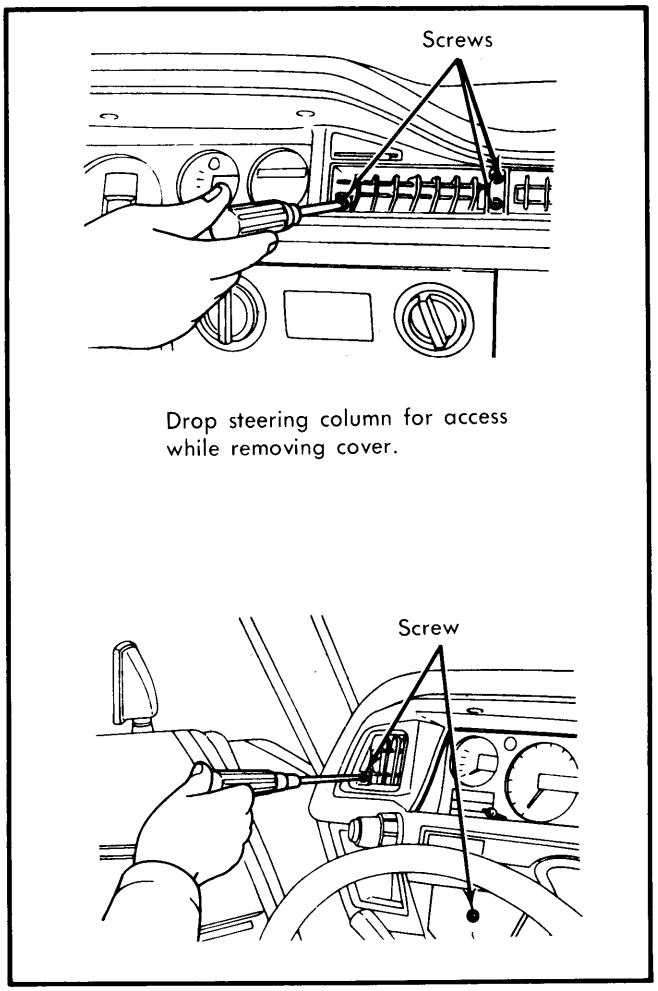

Fig. 1 Screw Locations for Removing GL & GLF Instrument Cluster Cover

2) Pull off ventilation knobs and remove passing light switch (if equipped). Unplug electrical wiring from cover and remove cover, with switches.