

# 3-62 Switches, Gauges & Instrument Panels

## TRIUMPH

### INSTRUMENT CLUSTER

**Spitfire** — Disconnect battery and remove heater control knobs. Remove four screws and cup washers and lower cluster. Remove bulb holders, disconnect wiring and remove cluster.

**TR7** — Remove radio speaker grill and top instrument panel trim pad. Remove steering column shrouds, loosen odometer reset knob and remove knob with cable. Loosen clock reset knob and remove with cable. Disconnect speedometer cable, remove retaining screws and pull out instrument cluster slightly. Disconnect all wiring and remove cluster.

### TACHOMETER

**Spitfire & TR7** — Tachometer may be removed after removing instrument cluster.

### SPEEDOMETER

**Spitfire** — Disconnect battery. Lower center dash, remove tachometer and depress lever releasing catch from annular groove in the boss. Detach speedometer cable, unscrew trip reset and remove two knurled nuts. Disconnect two connectors, bulb holders and remove speedometer.

**TR7** — Speedometer may be removed after removing instrument cluster.

### GAUGES

**Spitfire & TR7** — All gauges may be removed after removing instrument cluster.

### HAZARD WARNING & TURN SIGNAL FLASHER

**Spitfire** — Separate units are mounted under dash and held in position by spring clips.

**TR7** — Separate turn signal and flasher units are mounted behind lower panel at rear of glove compartment. To gain access, open glove box and remove cover panel.

### STOP LIGHT SWITCH

Mechanical type mounted on brake pedal bracket.

## VOLKSWAGEN

### INSTRUMENT CLUSTER

**Type 1 (Beetle)** — Disconnect battery ground cable. Remove five screws securing cluster. **NOTE** — Cluster screws are covered by small strips on left and right and by a cap in the center. Disconnect speedometer cable and wiring, remove cluster.

**Type 2 (Bus)** — Disconnect battery ground cable. Remove cluster securing screws and tilt cluster outward. Disconnect speedometer cable and wiring and remove cluster.

**Rabbit & Scirocco** — Remove trim plate for fresh air control and remove radio or glove box. Disconnect speedometer cable and wiring. Remove retaining screw on right side of cluster (visible after radio or glove box is removed) and remove cluster.

**Dasher** — Disconnect battery ground cable and speedometer cable. Using long nosed pliers, detach springs securing left and right sides of cluster then swing cluster outward.

### SPEEDOMETER

**All Models** — Speedometer can be removed after removing instrument cluster and speedometer retaining screws.

### HAZARD WARNING & TURN SIGNAL FLASHER

**Type 1** — Flashers are mounted separately on a bracket above the fuse box. Relays can be reached by removing the access panel from rear of the front luggage compartment.

**All Other Models** — Flasher is a plug-in unit on fuse block.

### STOP LIGHT SWITCH

Hydraulic type mounted on brake master cylinder.

## VOLVO

### INSTRUMENT CLUSTER

**All Models** — Disconnect battery ground cable and proceed as follows:

1) Remove steering column shrouds. Loosen bracket screw and allow bracket to drop down steering column. Remove instrument cluster mounting screws. Disconnect speedometer cable.

2) Press upwards on back of speedometer until snap lock on upper edge releases. Lift cluster forward and disconnect wiring. Disconnect tachometer drive cable (if equipped). Cluster may now be removed.

### SPEEDOMETER & GAUGES

**All Models** — Speedometer and all gauges can be removed after removing instrument cluster.

### HAZARD WARNING & TURN SIGNAL FLASHER

**240 Series** — Flasher is mounted behind left side kick panel.

**260 Series** — Flasher is mounted behind instrument cluster.

### STOP LIGHT SWITCH

Mechanical type mounted on brake pedal bracket. Adjust switch to provide .16" (4 mm) clearance between brake pedal and end of switch plunger.