

## 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.

**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

**Type 1, 2 & Dasher** — Speedometer can be removed after removing instrument cluster and speedometer attaching screws.

**Type 4** — Disconnect battery ground cable. Disconnect speedometer cable and wiring. Remove attaching screws and pull speedometer out from front of panel.

### HAZARD WARNING & TURN SIGNAL FLASHER

**Type 1** — Flasher is mounted on steering column support.

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

### IGNITION SWITCH

**All Exc. Type 2** — Disconnect battery ground cable, turn signal switch plug and ignition switch plug. Remove steering wheel and turn signal switch. Remove switch retainer, press ignition switch plug upward out of guide and disconnect wires. Pull lock cylinder with key outward far enough so that lock cylinder may be depressed through hole with piece of stiff wire. While depressing cylinder, pull out cylinder by pulling on key.

**Type 2** — Disconnect battery ground cable. Remove ignition switch housing and disconnect wiring behind instrument panel. If necessary, drill out blind hole using a No. 39 (2.5 mm) drill. Press down retaining spring with drill or piece of stiff wire and pull lock cylinder out of housing with key. When installing, if hole was drilled, close hole with piece of wire which can only be removed by drilling.

### 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 towards steering wheel. Remove instrument cluster mounting screws. Disconnect speedometer cable.

2) Take hold of back side of speedometer and press upwards until snap lock on upper edge releases. Lift cluster forward and disconnect wiring and tachometer drive cable (if equipped). Cluster can now be removed.

### SPEEDOMETER & GAUGES

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

### HAZARD WARNING & TURN SIGNAL FLASHER

**All Models** — Flasher is mounted behind instrument cluster.

### IGNITION SWITCH

**All Models** — Disconnect battery cable. Remove ignition switch from steering wheel lock by unscrewing both bolts holding switch to lock and remove switch.

### STOP LIGHT SWITCH

Mechanical type mounted on brake pedal bracket. Adjust switch to provide  $.16 \pm .008$ " ( $4 \pm 2$  mm) clearance between brake pedal and end of switch plunger.