

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

All Exc. TR6 — Tachometer may be removed after first removing instrument cluster.

TR6 — Disconnect drive cable and all wiring. Remove light bulb holders and steering column switch covers. Remove two knurled nuts, washers and clamps from back of unit. Remove tachometer from front of instrument panel.

SPEEDOMETER

All Exc. TR6 — Speedometer may be removed after first removing instrument cluster.

TR6 — Disconnect drive cable and all wiring. Remove light bulb holders and steering column switch covers. Remove two

knurled nuts, washers and clamps from back of unit. Remove speedometer from front of instrument panel.

GAUGES

All Exc. TR6 — All gauges may be removed after first removing instrument cluster.

TR6 — Gauges may be removed individually as follows: Disconnect wiring and remove bulb holder. On oil pressure gauge, disconnect oil line. Remove knurled nut, washer and clamp. Gauge may now be removed from front of instrument panel.

IGNITION SWITCH

Spitfire — Remove steering column. Remove switch cover and column anti-torque strap. Use a small chisel to unscrew two shear head bolts. If this fails, remove using a screw extractor. When installing switch, use new shear bolts.

TR6 — Disconnect battery. Remove single screw and remove gear box side cover trim panel. Disconnect five connectors. Unscrew bezel and remove ignition switch.

TR7 — Remove steering column shrouds. Use a small chisel to unscrew two shear bolts. If this fails, remove using a screw extractor. When installing switch, use new shear bolts.

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.

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 1/8" (3 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.