

Switches, Gauges & Instrument Panels 3-53

ARROW

INSTRUMENT CLUSTER

To remove instrument cluster, pull out air intake control knob, ash tray, and heater control knobs. Remove radio tuning knob and 2 ring nuts. Remove 8 attaching screws from around panel and pull panel out far enough to disconnect speedometer, radio, and electrical connections. Remove instrument cluster. To install, reverse removal procedure using caution not to over-tighten mounting screws.

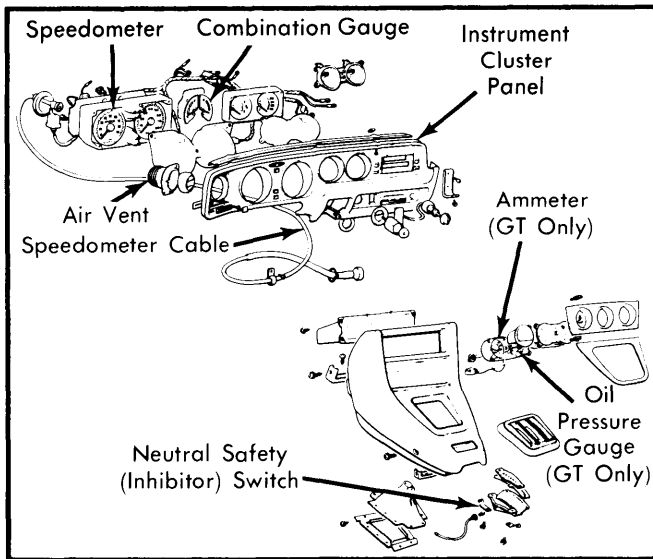


Fig. 1 Arrow Instrument Cluster

SPEEDOMETER & GAUGE

After removing instrument panel, remove bezel and lens. Loosen attaching screws and remove speedometer and combination gauge.

HAZARD WARNING & TURN SIGNAL FLASHER

Located at lower center of instrument panel. A separate flasher unit is used for hazard warning and turn signals.

STOP LIGHT SWITCH

Mechanical type, mounted on bracket above brake pedal. Switch also serves as pedal stop and free travel adjustment screw.

NEUTRAL SAFETY SWITCH

Switch is located under console box on cars with automatic transmission. Provides for starting with selector lever in "Park" or "N" position only, and completes backup light circuit in "R" position. If removal required, console box must be removed first with selector lever in "L" position. Disconnect control rod and remove selector lever assembly from car. Disconnect handle from lever, loosen indicator panel screw, then draw out panel, slider, and light holder. Remove switch and check for starter circuit continuity in park and neutral positions, backup light circuit continuity in reverse position only. Assure that switch and selector positions line up when in "N" position during reinstallation.

AUDI

INSTRUMENT CLUSTER

Audi Fox — Disconnect battery ground cable and remove lower instrument panel trim. Disconnect speedometer shaft at speedometer and multiple plug at back of cluster. Disconnect left and right mounting springs using suitable long nose pliers. Remove cluster by pulling it forward.

Audi 5000 — Disconnect battery ground cable. Loosen screws at bottom and side of instrument panel trim, remove trim at top first, then at bottom. Loosen cluster mounting screws, detach speedometer cable and multi-point connector. Carefully pull cluster assembly straight out.

SPEEDOMETER, CLOCK & GAUGES

Speedometer, clock and all gauges may be removed after first removing instrument cluster from panel.

HAZARD WARNING & TURN SIGNAL FLASHER

Audi Fox — Single plug-in type unit mounted on fuse block. Connectors can be installed in one position only. Be sure that flasher connector blades are properly positioned and indexed with receptacle sockets when installing.

Audi 5000 — Flasher unit fits in bracket behind instrument panel near multi-point connector. Plug in connector attaches to unit.

STOP LIGHT SWITCH

Stop light switch is hydraulically operated by fluid pressure and is attached to brake master cylinder. Models with cruise control have 3 terminals, others use 2 terminals.

BMW

INSTRUMENT CLUSTER

CAUTION — Disconnect battery ground cable prior to removing instrument cluster on all models.

320i — Remove steering wheel. Detach lower center instrument panel trim and disconnect speedometer cable. Unscrew

knurled nut at base of instrument cluster and pull out instrument cluster. Disconnect wiring at connector.

530i — Remove steering wheel. Detach instrument panel trim at lower left corner. Unscrew speedometer shaft and retain felt washer between upper and lower sections. Loosen knurled nut under instrument panel and pull cluster out far enough to disconnect multiple plugs at either side. Disconnect remaining wires and remove instrument cluster.

3-54 Switches, Gauges & Instrument Panels

BMW (Cont.)

633CSi — Disconnect negative (-) battery cable and remove steering wheel. Detach lower center instrument panel trim and remove mask from inquiry unit. Detach printed circuit board leaving wiring attached. Remove light and fog light switch, and disconnect wiring at back of switch. Remove left air control knob and cover. Loosen screws on instrument cluster, steering wheel control base and disconnect speedometer cable. Press down on instrument cluster upper section and steering column far enough to allow removal of instrument cluster at an angle.

733i — Loosen screws at bottom left and under steering column attaching trim panel to instrument panel. Detach trim at tray and disconnect window control cutout wires. Remove 3

screws beneath upper instrument panel trim. Loosen steering column control and pull wheel all the way out. Tip cluster back, disconnect all plugs and wires, then remove cluster by turning out to right rear.

SPEEDOMETER & GAUGES

Speedometer and all gauges may be removed after first removing instrument cluster.

STOP LIGHT SWITCH

Mechanical type switch mounted on brake pedal bracket. Adjust switch so that .20-.24" (5-6mm) of contact button is extended when brake pedal is fully back.

CAPRI

INSTRUMENT CLUSTER

1) Disconnect battery ground cable and remove lower steering column shroud. Release clip securing upper steering column shroud. Remove ashtray.

2) Remove hazard flasher switch and disconnect wiring. Remove turn signal switch and allow it to hang on wiring. Remove screws securing lower dash trim panel and pull trim panel forward and down. Disconnect wiring to clock and cigarette lighter and remove trim panel.

3) Pull off instrument panel light control knob. Remove lower screws securing instrument cluster, pull cluster downward and disconnect seat belt warning light wiring and oil pressure line union. Remove screws securing cluster to panel and disconnect speedometer cable and wiring. Remove cluster.

SPEEDOMETER & GAUGES

Speedometer and all gauges may be removed after first removing instrument cluster.

HAZARD WARNING & TURN SIGNAL FLASHER

Combination flasher is located to the left of the steering column beneath instrument panel. Unit is secured by clamp with a single screw and connected by a plug type mechanical connector.

STOP LIGHT SWITCH

Mechanical type mounted on bracket at brake pedal lever.

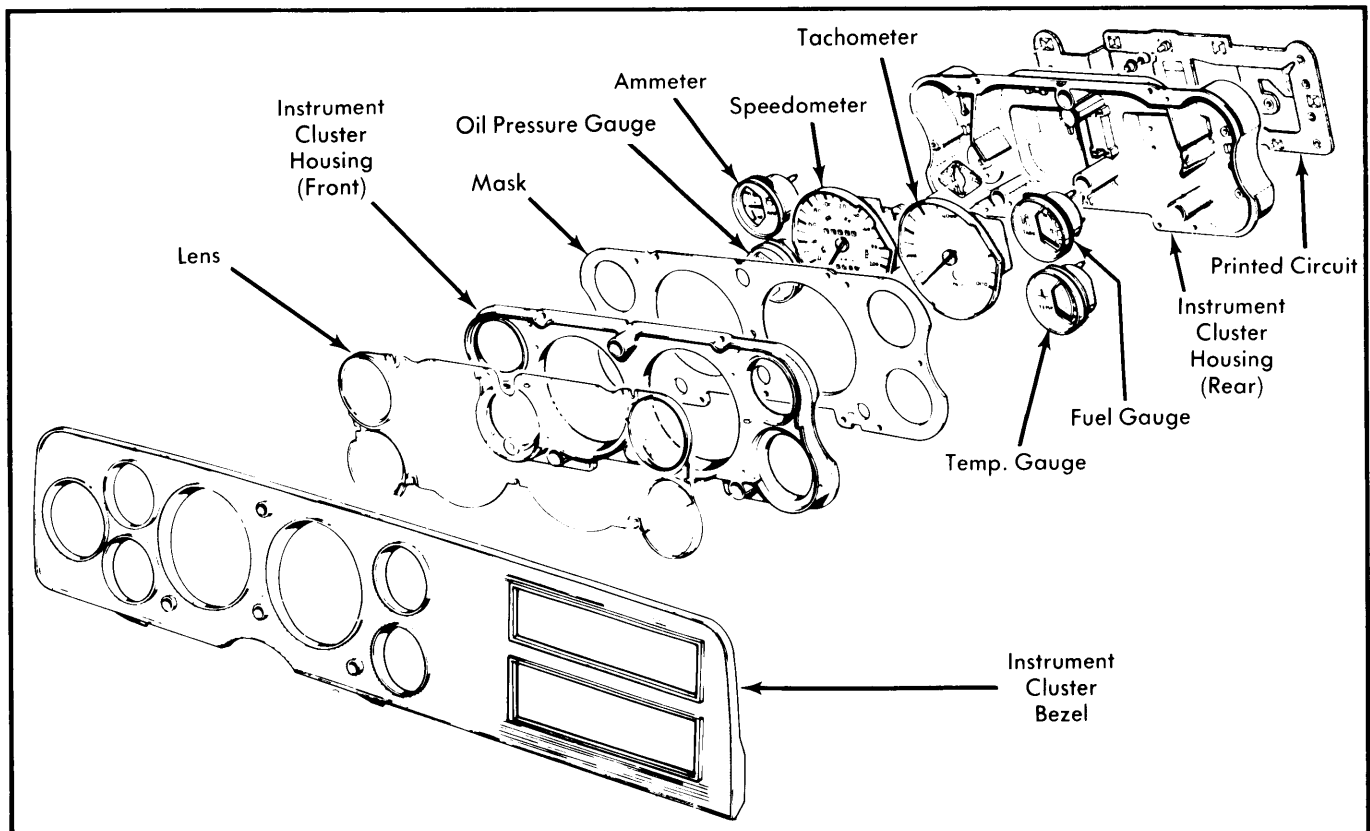


Fig. 2 Capri Instrument Cluster