

ARROW

INSTRUMENT CLUSTERS

To remove instrument cluster, remove three upper screws and a lower screw located behind the blind cover above the air intake control panel, three screws behind and in upper inside part of ash tray, and radio mounting nuts.

Pull instrument cluster a small distance, disconnect gauge connectors, heater fan connectors, speedometer cable and grounding cable attached to body by a screw. Remove instrument cluster. To install, reverse removal procedure.

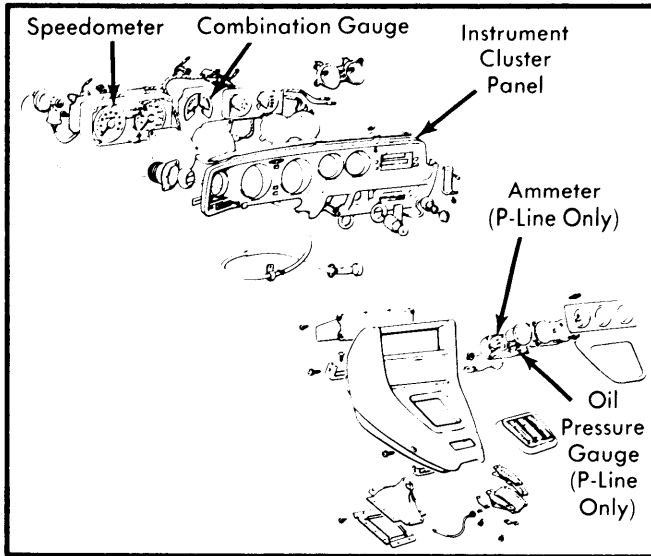


Fig. 1 Arrow Instrument Cluster

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.

IGNITION SWITCH

To replace ignition switch, remove column cover and pull out switch assembly.

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

Located in console under gear indicator cover. Switch has a mark for aligning with "N" position. Gap is .059" between switch contact and lever.

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 100 — After removing battery ground cable, proceed as follows:

- 1) Remove instrument panel padding. Remove two hex nuts from cluster cover and remove cover, washers and foam rubber strips.
- 2) Pull instrument cluster assembly straight out. Disconnect multiple plug and (if equipped) tachometer cable. Disconnect speedometer cable and remove cluster.

SPEEDOMETER, CLOCK & GAUGES

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

HAZARD WARNING & TURN SIGNAL FLASHER

Single, plug-in type unit mounted on fuse block. Plug-in connectors can be installed in only one position. Be sure that

flasher connector blades are properly positioned and indexed with receptacle sockets.

IGNITION SWITCH

Audi Fox — Disconnect battery ground cable and remove steering wheel, switch holder cap and upper and lower instrument panel trim. Proceed as follows:

- 1) A punch mark is on the steering lock housing in the area of the lock cylinder guide. Drill carefully through the housing at this location with a number 31 (3 mm) drill. Guide a punch into this hole and press in lock cylinder spring. Pry out lock cylinder with a screwdriver. **NOTE** — Steering wheel lock pin must not be engaged in jaws of steering column when removing cylinder.

- 2) If the ignition key is not available and lock pin is engaged, drill off the shear screw heads. When installing lock cylinder, make sure that projection on lock cylinder is seated in groove of ignition lock housing so that spring will engage.

Audi 100 — Disconnect battery ground cable and proceed as follows:

- 1) Remove steering wheel and steering wheel trim. Unscrew combination switch.

AUDI (Cont.)

2) Center punch shear screws that hold ignition switch clamp together and drill through screws with a number 31 (3 mm) drill.

3) Insert proper size screw extractor into drilled holes and remove shear screws and lower portion of switch clamp.

Remove switch and lock from steering column. To install, reverse removal procedure, using new shear screws.

STOP LIGHT SWITCH

Switch is hydraulically operated by brake fluid pressure and is attached to end of brake master cylinder.

BMW

INSTRUMENT CLUSTER

2002 — Disconnect battery cable. Remove two screws from trim plate. Remove six screws and remove casing outer tube. Remove knurled nuts and speedometer cable. Push out instrument panel and remove wiring harness connectors.

530i — Remove center, lower instrument panel trim and disconnect speedometer cable. Loosen knurled nut above steering column and upper steering column screws. Pull out cluster and disconnect all wiring.

3.0Si — Remove two screws, left and right, on the upper panel. Remove panel and detach speaker wires. To remove lower left panel, remove one screw inside glove box and three screws across lower panel. Lower right panel is removed by removing keepers in glove box, press out pivot pins and swing down glove box. Remove screws and take off housing panel. Remove two central terminal plugs, speedometer shaft and instrument cluster.

SPEEDOMETER & GAUGES

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

IGNITION SWITCH

Disconnect battery ground cable. Remove lower steering column trim panel and lower center section of instrument panel trim. Turn ignition switch to "Halt" position and remove screws from steering lock holder. Note wiring position and disconnect wiring. To install, reverse removal procedure.

STOP LIGHT SWITCH

Mechanical type mounted on brake pedal bracket. Adjust switch so that specified amount of contact button is visible.

Application	Plunger Length
4 Cyl. & 530i20-.24" (5-6 mm)
3.0Si24-.28" (6-7 mm)

CAPRI II

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

Disconnect battery ground cable and pull instrument cluster from panel to gain access to flasher. Remove flasher and wiring.

IGNITION SWITCH

Remove upper and lower steering column shrouds and disconnect wiring from ignition switch. Ensure that switch is in "0" position and remove screws securing switch to lock and remove switch. Remove screws securing left and right lower dash trim panels and lower panels. Move turn signal switch out of way and disconnect wiring from ignition switch. Remove screws holding steering column to dash and turn column to gain access to headless bolts. Remove lock from steering column by drilling out headless bolts or removing bolts with screw extractor.

STOP LIGHT SWITCH

Mechanical type mounted on bracket at brake pedal lever.