

HONDA (Cont.)

INSTRUMENT CLUSTER (Cont.)

1972

1) Remove center panel and choke assembly. Remove steering shaft hanger retaining bolts and lower steering column to floor. Extract light switch knob, ring nut and panel cover. Remove instrument panel retaining screws and pull panel outward. Disconnect speedometer and tachometer drive cables. *NOTE — Do not lose bushings in instrument drive cables.*

2) Disconnect wire harness from lighting switch, brake trouble warning light, turn signal pilot light, high beam indicator light, fuel gauge, speedometer and tachometer. Individual gauges may now be removed as necessary. To install, reverse removal procedure.

1973

Disconnect battery ground cable and remove three cluster mounting wing nuts from rear of cluster. Disconnect

speedometer and tachometer (if equipped) drive cables from engine. Pull cluster away from panel and disconnect wiring, speedometer and tachometer (if equipped) drive cables from cluster. Remove cluster.

SPEEDOMETER, TACHOMETER & GAUGES

1973

Speedometer, tachometer (if equipped) and all other gauges may be removed after first removing instrument cluster.

STOP LIGHT SWITCH

1973

Mechanical type mounted on brake pedal bracket. Switch also serves as brake pedal stop. Adjust switch to give .039-.196" (1-5 mm) freeplay at center of brake pedal.

JAGUAR

INSTRUMENT CLUSTER

1963-72

6 Cylinder Models — Disconnect battery and remove ignition key and cigar lighter for safe keeping. Hinge center instrument panel downward after removing screws located in each top corner. If air conditioning is installed, it will be necessary to slide sub-panel forward before instrument panel can be lowered. Loosen two knurled nuts to release sub-panel. To install, reverse removal procedure.

1973

Sedan Models — Disconnect battery. Remove two knurled screws and hinge down instrument cluster. Disconnect voltage stabilizer and wiring, remove four setscrews and remove cluster. Individual instruments may now be removed from cluster.

XKE Models — Disconnect battery. Remove both left and right hand parcel trays. Remove dash liner and two knurled screws. Hinge down instrument cluster. Disconnect wiring and remove pivot screws. Remove cluster. Individual instruments may now be removed from cluster.

SPEEDOMETER & TACHOMETER

1973

Speedometer and tachometer may be removed by disconnect wiring and speedometer drive cable and releasing securing clamps.

SPEEDOMETER

1963-72

6 Cylinder Models — To remove, disconnect battery. Raise steering column to highest position. Detach speedometer from dash by removing two knurled nuts, ground lead and two retaining pieces. Remove drive cable. Remove speedometer

from dash and disconnect wiring. Unscrew knurled nut and withdraw odometer setting control. To install, reverse removal procedure.

TACHOMETER

1963-72

6 Cylinder Models With Integrated Clock — To remove, disconnect battery. Detach tachometer from dash by removing two knurled nuts, ground lead, and two retaining clips. Remove tachometer from dash and disconnect wiring. Detach flexible clock setting drive by loosening knurled sleeve nut. Remove clock from tachometer by removing two nuts. To install, reverse removal procedure.

6 Cylinder Models Without Integrated Clock — To remove, disconnect battery. Remove two knurled nuts, ground lead and retaining clips. Withdraw tachometer from instrument panel and remove illumination bulb holders. Disconnect plug and socket as follows: Pinch together prongs of plastic retainer clip and withdraw plug and socket assembly. To install, reverse removal procedure.

NOTE — Do not detach green and white cable connected to plug from tachometer.

HAZARD WARNING & TURN SIGNAL FLASHER

1973

Two separate flashers are used and are located under center of instrument panel.

TURN SIGNAL FLASHER

1962-72

On all models, flasher is located behind center instrument cluster and may be serviced after cluster is removed.

JAGUAR (Cont.)

IGNITION SWITCH

1973

Disconnect battery and remove steering wheel. Remove switch cover and steering column covers. Remove dash casing and disconnect switch wiring. Remove upper steering column. Withdraw retaining screw from switch body and remove switch unit. Remove shear bolt using a suitable tool. To install, reverse removal procedure and use new shear bolts.

STOP LIGHT SWITCH

1973

Mechanical type mounted on brake pedal bracket.

INSTRUMENT CLUSTER

1972-73

Disconnect speedometer cable, remove wing nuts from rear of cluster and pull cluster part way out. Disconnect wiring and remove cluster.

LUV

SPEEDOMETER & GAUGES

1972-73

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

STOP LIGHT SWITCH

1972-73

Mechanical type mounted on brake pedal bracket.

MERCEDES-BENZ

INSTRUMENT CLUSTER

1962-72

4 & 6 Cylinder Models — 1) Disconnect battery ground cable. Release cooling system pressure. Disconnect capillary tube for temperature indicator from engine block and with radiator cap installed, plug threaded hole in block.

2) Remove cover beneath instrument panel. Working from rear, press instrument cluster out of instrument panel and pull it slightly forward. Pull out multiple plug, disconnect oil pressure line, pull capillary tube of temperature indicator through firewall, and remove instrument cluster completely. To install, reverse removal procedure.

1962-70

V8 Models — 1) Release cooling system pressure and disconnect battery. Disconnect capillary tube for temperature indicator from engine block and plug hole.

2) Remove cover under instrument panel. Working from rear, press instrument cluster out of panel and pull it forward slightly. Disconnect multiple plug and oil pressure line, pull capillary tube of temperature indicator through firewall and remove instrument cluster completely. To install, reverse removal procedure.

1971-72

V8 Models — Instrument cluster is held in dash panel by a rubber section. To remove, disconnect battery and remove steering wheel. Pull cluster from dash panel and disconnect speedometer cable, electrical connections, oil pressure line, then remove instrument cluster. To install, reverse removal procedure.

SPEEDOMETER & GAUGES

1963-72

Speedometer and gauges can be removed or serviced after instrument cluster has been removed.

STOP LIGHT SWITCH

1963-72

Mechanical type, located on support above brake pedal arm. Adjust so stop lights operate when brake pedal is depressed approximately .788" (20 mm). With pedal released, arm should not contact switch housing. Contact button must be visible approximately .157" (4 mm).

MG

INSTRUMENT CLUSTER

1963-67

MG 1100 — Unscrew ignition switch and windshield wiper and washer controls. Release all switches by removing lock nuts. Disconnect speedometer drive cable and all electrical

connections to instruments. Pull out warning and panel light bulb holders. On early models, remove six lower panel mounting screws and lift out panel. Remove panel out from passenger side of vehicle. On later models, remove two drive screws on windshield cowl and four screws under dash. Release steering column bracket and lift out panel assembly. All gauges and instruments may now be removed from panel.

MG (Cont.)

SPEEDOMETER

1963-73

MG Midget — Disconnect battery and remove screw securing left front end of parcel shelf. Remove console retaining screws and pull console to rear, tilting forward to clear dash. Disconnect wiring and remove console complete with switches and fittings. Unscrew trip reset retaining nut and disengage reset from bracket. Disconnect drive cable and remove knurled retaining nuts, ground wire and retaining brackets. Pull speedometer from dash and disconnect wiring.

MG 1100 — Speedometer may be removed after instrument cluster has been removed.

MGB & MGB/GT — Unscrew trip reset knob retaining nut and remove reset from bracket. Unscrew two knurled retaining nuts, remove bracket and pull speedometer from dash.

1969

MGC — Disconnect battery, remove lower left dash panel cover and heater air control knob. Unscrew control retaining nut and pull control from mounting bracket. Unscrew trip reset knob retaining bracket, disengage reset from bracket and remove speedometer.

IGNITION SWITCH

1963-67

MGB & MGB/GT — Disconnect electrical leads. Using suitable tool (18G 670) remove bezel lock ring. Pull switch out from rear of instrument panel.

MG Midget & MG 1100 — Disconnect electrical leads. Unscrew mounting nut and remove switch assembly complete with "D" shaped washer.

1969

MGC — Remove steering wheel by releasing three screws. Remove horn button, steering wheel nut, steering and steering wheel. Remove left switch cowl and unscrew panel light switch retaining screws. Remove right switch cowl, wiper switch, combined lighting switch and horn. Remove ignition switch, complete with wiring.

1968-73

MG Midget — Disconnect battery. Turn key to position "0". Disconnect wiring from switch and remove two screws securing switch to steering lock. Remove switch.

MGB & MGB/GT — Pull off center motif from steering wheel, unscrew retaining nut and remove steering wheel using suitable tool. Remove three retaining screws from left switch cowl and remove cowl half. Remove screw retaining right cowl

half and remove cowl. Unscrew four switch retaining screws, disconnect switch wiring at snap connectors and remove switch.

STOP LIGHT SWITCH

1963-67

MGB, MGB/GT & MG 1100 — Hydraulic type mounted in engine compartment.

MG Midget — Mechanical type mounted on bracket at brake pedal.

1969

MGC — Mechanical type switch mounted on bracket at brake pedal.

1968-73

All MG Models — Mechanical type mounted on bracket at brake pedal.

TACHOMETER

1963-67

All MG Models — Disconnect ground wire, remove retaining nuts, bracket, and pull tachometer from instrument panel.

1968-73

All MG Models — On MGB and MGB/GT models remove lower left instrument panel cover. On all models, unscrew two knurled retaining nuts, disconnect ground cable and remove retaining brackets. Pull tachometer from dash and disconnect wiring.

1969

MGC — Disconnect battery, remove lower left instrument panel cover and remove tachometer.

FUEL GAUGE

1963-67

MG Midget, MGB & MGB/GT — On models so equipped, remove console. Remove nuts and brackets from back of instrument. Disconnect all wiring and pull gauge from instrument panel.

1969

MGC — Disconnect battery, unscrew nut and remove retaining bracket. Disconnect wiring and pull gauge from dash.