

ALL MANUFACTURERS

All Models

DESCRIPTION

Ignition switches are typically mounted on steering columns (exc. Chrysler Corp. "B" & "PB" models) and are actuated by ignition key locking mechanisms. Ignition switches for Chrysler "B" & "PB" models are located in the instrument cluster.

SERVICING

Chrysler Corp. and International Harvester Corp. vehicles with column mounted ignition switches and lock cylinders require that the steering wheel, steering column and turn signal switch be removed before ignition components are accessible.

On General Motors and Jeep Corp. vehicles, the steering column must be removed or lowered, and the steering wheel and turn signal switch removed before access to ignition components is obtained.

Ford Motor Co. vehicles and all models not having the ignition mounted on the steering column require no removal of steering components.

CAUTION — Some steering columns are collapsible and special care must be taken to avoid bumping, jolting or hammering on steering shaft and gearshift tube.

REMOVAL & INSTALLATION

LOCK CYLINDER REMOVAL

Chrysler Corp. (Except "B" & "PB" Models) — Place cylinder in "LOCK" position and remove key. Insert a small diameter screwdriver or similar tool into lock cylinder release hole and push in to release spring loaded lock retainer while pulling lock cylinder out of housing bore.

Ford Motor Co. — Turn ignition key to the "ACC" position. Depress release pin in face of lock cylinder and turn key counterclockwise while pulling key and lock cylinder from switch.

General Motors "G" Models — Turn ignition key to "ACC" position and insert stiff wire in small hole in cylinder face. Push wire in to depress plunger while turning key counterclockwise until lock cylinder can be removed.

General Motors "C" & "K" Models & GMC Motor Home — Place lock assembly in "RUN" position and insert a long thin screwdriver into slot next to switch mounting screw boss. Keep the screwdriver to right side of slot and depress spring latch at lower end of lock cylinder. Remove lock cylinder from ignition switch while holding latch in depressed position.

International Harvester, Models With Ignition Switch Mounted In Instrument Panel — Remove ignition switch from instrument panel and insert key into lock cylinder. Insert stiff wire into small hole in switch body and turn key towards the right. Press cylinder retainer down with wire and remove lock cylinder from switch assembly.

International Harvester, Models With Ignition Switch Mounted In Steering Column — Position lock assembly in "RUN" position and insert a long thin screwdriver to right side of slot and depress spring latch at lower end of lock cylinder. Remove lock cylinder from ignition switch while holding latch in depressed position.

Jeep — Position key in "RUN" position (manual transmission models without tilt wheel) or in "ON" position (all other models), then depress key cylinder retaining tab and remove lock cylinder from housing. The retaining tab is accessible through slot adjacent to turn signal switch mounting boss.

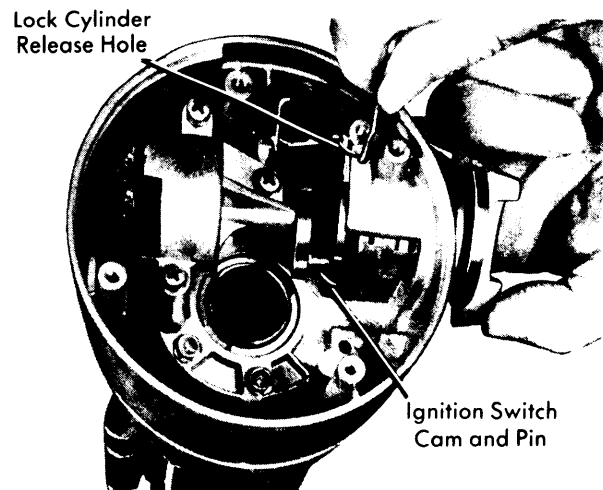


Fig. 1 Typical Column Type Ignition Switch Lock Cylinder Removal

LOCK CYLINDER INSTALLATION

Chrysler Corp. (Except "B" & "PB" Models) — With cylinder in "LOCK" position and key removed, insert cylinder into housing. Press cylinder in until contact is made with pin on ignition switch cam. Insert key into lock and rotate lock until slot in cylinder plate aligns with pin. Press cylinder remaining way into lock housing while making sure retainer bar snaps into its slot in lock housing.

Ford Motor Co. — Insert key in lock cylinder and turn to "ACC" position. Place key and cylinder into switch and push cylinder in until fully seated. Turn key to "LOCK" position, then turn key to all positions to check operation of lock cylinder.

General Motors "G" Models — With key inserted into lock cylinder, install cylinder to switch until plunger locks cylinder into place.

General Motors "C" & "K" Models & GMC Motor Home — Hold lock cylinder sleeve and rotate knob clockwise against stop. Insert cylinder into housing bore with key on lock cylinder sleeve aligned to keyway in housing. Push cylinder into abutment of cylinder and sector. Position a .070" drill between lock bezel and housing, then rotate cylinder counterclockwise while maintaining slight pressure until drive section of cylinder pops into grooves and secures lock cylinder to housing. Remove drill and check lock cylinder for freedom of rotation.

International Harvester, Models With Ignition Switch Mounted In Instrument Panel — Push lock cylinder into switch body and turn towards the right ("ON" position) until cylinder snaps into place.

ALL MANUFACTURERS (Cont.)

International Harvester, Models With Ignition Switch Mounted In Steering Column — Hold lock cylinder sleeve and rotate knob clockwise against stop. Insert the cylinder into housing bore with key on lock cylinder sleeve aligned to keyway in housing. Push cylinder into abutment of cylinder and sector. Rotate cylinder counterclockwise while maintaining slight pressure until drive section of cylinder pops into grooves and secures lock cylinder to housing. Check lock cylinder for freedom of rotation.

Jeep — Install lock cylinder into housing until retaining tab snaps into position and secures lock cylinder to housing.

IGNITION SWITCH REMOVAL

Chrysler Corp. "B" & "PB" Models — Remove instrument cluster, then remove switch mounting nut from front of panel. While working through cluster opening in panel, lower switch from panel, remove illumination lamp bracket and disconnect wiring harness connector from switch. Remove switch from vehicle.

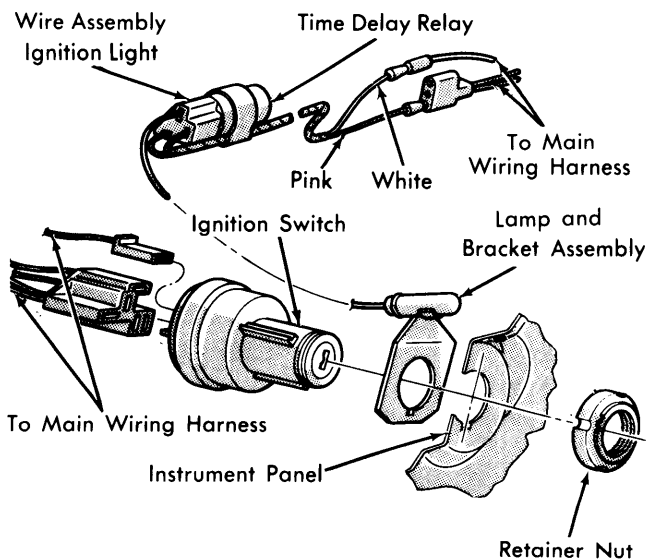


Fig. 2 Ignition Switch for Chrysler "B" and "PB" Models

Chrysler Corp. (Except "B" & "PB" Models) — Ignition switch is in upper end of steering column and with lock cylinder removed, all that is necessary is to remove three retaining screws and switch from vehicle.

Ford Motor Co. "U" Models & P-350 — Disconnect battery ground cable from battery and remove lock cylinder. Working from under instrument panel, press in on rear of switch and make $\frac{1}{8}$ turn counterclockwise. Remove bezel and switch. Remove retainer and spring. Remove nut from back of switch, then disconnect wires from accessory terminal of switch and remove insulated plug from rear of switch.

Ford Motor Co. (Except "U" Models & P-350) — Disconnect battery ground cable from battery and remove lock cylinder. Remove bezel nut securing switch to instrument panel and lower switch from panel. Depress tabs holding multiple connector to rear of ignition switch, pull connector from switch and remove switch from vehicle.

General Motors "G" Models — Disconnect battery ground cable from battery and remove lock cylinder. Remove ignition switch nut and pull switch out from behind instrument panel. Remove the "theft resistant" connector using a screwdriver to unsnap the locking tangs. Remove switch from vehicle.

General Motors "C" & "K" Models — Lower steering column and support column to avoid causing damage. Remove lock cylinder, pull switch actuating rod up until there is a definite stop, then move rod down one detent which will place switch in the "LOCK" position. Remove two switch screws and switch assembly from vehicle.

General Motors GMC Motor Home — With lock cylinder in "ACC" position, remove two screws attaching ignition switch and remove switch.

International Harvester Models With Ignition Switch Mounted In Instrument Panel — Disconnect connector from ignition switch and remove ignition switch bezel nut. Remove ignition switch from vehicle.

International Harvester Models With Ignition Switch Mounted In Steering Column — 1) Position switch in "LOCK" position on Scout II, Terra and Traveler models; in "OFFLOCK" position on 150 and 200 models, and "ACC" position on all other models.

2) If locking cylinder has been removed, pull connecting rod up to a definite stop and then move down one detent on Scout II, Terra and Traveler models; down two detents on 150 and 200 models, and down four detents on all other models. Remove two switch attaching screws and remove switch from vehicle.

Jeep — Position key in "OFF-UNLOCK" position and remove two switch mounting screws. Disconnect switch from remote rod, remove harness connector and remove switch from vehicle.

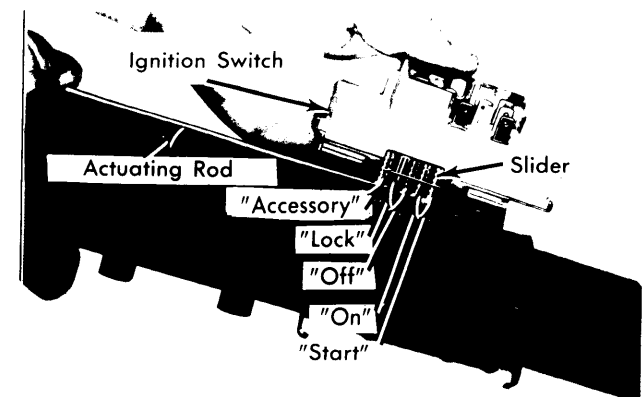


Fig. 3 Rod Actuated Ignition Switch Common to All Models.

IGNITION SWITCH INSTALLATION

Chrysler Corp. "B" & "PB" Models — Connect wiring harness to switch and install lamp bracket on switch. Position switch into place in instrument panel and install mounting nut. Install instrument cluster.

Chrysler Corp. (Except "B" & "PB" Models) — Install ignition switch to column ensuring that key in housing is indexed with slot in steering jacket. Install retaining screws and tighten.

ALL MANUFACTURERS (Cont.)

Ford Motor Co. ("U" Models) – 1) If a new lock cylinder is to be installed in switch, insert a screwdriver in opening of switch and turn slot in switch to a full counterclockwise position. Connect insulated plug to back of switch and position accessory and gauge wires onto ignition switch stud and secure with retaining nut.

2) Position bezel and switch in switch opening, then press switch toward instrument panel and rotate $\frac{1}{8}$ turn to lock it into position. Position spring and retainer on switch making sure open face of retainer faces away from switch. Press switch toward instrument panel and install bezel. Connect battery ground cable.

Ford Motor Co. (Except "U" Models) – Depress tabs on multiple connector and plug connector into switch assembly making sure that tabs lock into place. Install switch to instrument panel and install bezel nut. Connect battery ground cable.

General Motors "G" Models – Install connector into place on ignition switch and position switch to instrument panel from back side after adding grounding ring. Install ignition switch nut and connect battery ground cable.

General Motors "C" & "K" Models – Before installing ignition switch both the lock cylinder and switch must be in "LOCK" position. Install actuating rod into switch and install switch to column. Install two mounting screws.

General Motors GMC Motor Home – Position ignition switch next to column and move slider to extreme right position (away from steering wheel). Position actuator rod into slider hole and secure switch to column with two screws. With screws loose, lightly push switch down column (away from steering wheel) to remove actuator rod lash. Do not allow detent position of switch to change. Tighten screws.

International Harvester, Models With Ignition Switch Mounted In Instrument Panel – Install connector to ignition switch and position switch to instrument panel. Install bezel nut and tighten.

International Harvester, Models With Ignition Switch Mounted In Steering Column – 1) On all models (exc. Motor Home), position shift lever in any position except "PARK" (automatic transmission) or Reverse (manual transmission) and rotate lock counterclockwise until rack bottoms against lower surface of cast in bowl plate.

2) Position switch next to column and move slider to extreme left position ("ACC") and move slider two positions to the right to place it in the "OFF-UNLOCK" position. Fit actuator rod into slider hole and attach switch to column using two attaching screws.

CAUTION – Do not allow switch to change detent position during tightening.

2) On Motor Home models, position switch next to column and move slider to extreme right position. Fit actuator rod into slider hole and attach switch to column using two attaching screws. Lightly push switch down column (away from the steering wheel) to remove lash in actuator rod taking care not to change detent position of switch.

Jeep – 1) Position ignition switch next to column and move slider to extreme left position (toward steering wheel) on models with standard column and move slider to extreme right position (away from steering wheel) on models with tilt column.

2) On tilt columns move switch down column (away from steering wheel). On all models, install attaching screws taking care not to allow detent position to change.