

ALL MANUFACTURERS

All Models

DESCRIPTION

Ignition switches are typically mounted on steering columns and are actuated by ignition key locking cylinders.

SERVICING

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

On General Motors and Jeep Corp. vehicles, steering column must be removed or lowered. Steering wheel and turn signal switch must be removed before ignition components are accessible.

CAUTION — Lock plate is under strong spring pressure. Do not remove snap ring without using compressor tool. If steering shaft has American threads, use compressor tool J-23653; if shaft has metric threads use Metric Forcing Screw J-23653-4.

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. — Place lock in "LOCK" position and remove key. Insert thin tool (machinist's scale or knife blade) into lock cylinder slot. Push in to release spring loaded lock retainer. Remove lock cylinder from housing.

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 — Place lock in "RUN" position. Remove lock retaining screw and lock cylinder.

International Harvester — Place lock in "LOCK" position on standard column and in "RUN" position on tilt column. Insert thin tool (machinist's scale or knife blade) into lock cylinder slot. Push in to release spring loaded lock retainer. Remove lock cylinder from housing.

Jeep — Place lock in "ON" position (manual transmission) or in "OFF-LOCK" position (automatic transmission). Insert thin tool (machinist's scale or knife blade) into lock cylinder slot. Push in to release spring loaded lock retainer. Remove lock cylinder from housing.

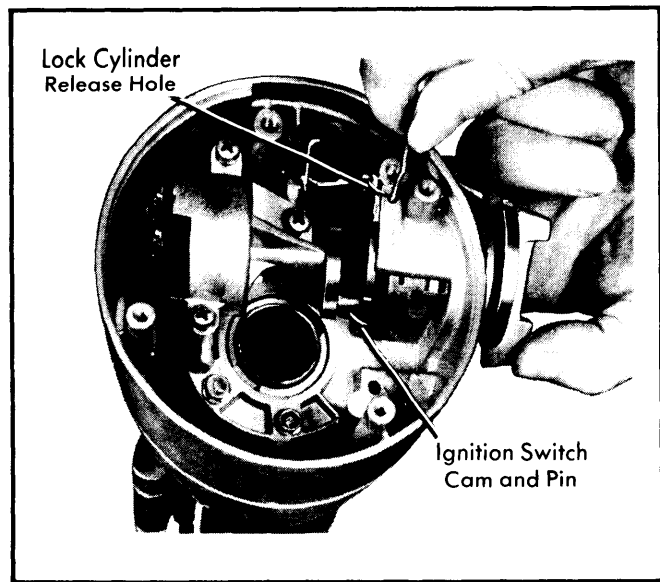


Fig. 1 Typical Column Type Ignition Switch Lock Cylinder Removal

LOCK CYLINDER INSTALLATION

Chrysler Corp. — Place lock in "LOCK" position and remove key. Insert cylinder into housing. Press cylinder in until contact is made with pin on ignition switch cam. Insert key into lock and rotate until slot in cylinder plate aligns with pin. Push cylinder in and lock retainer will snap into 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 — Place lock in housing. Turn key to "RUN" position while holding cylinder. Align cylinder with keyway in housing. Push lock in and install lock retaining screw.

International Harvester, Tilt Column — Hold lock cylinder sleeve and rotate knob clockwise against stop. Insert cylinder into housing with key on lock cylinder sleeve aligned with keyway in housing. Push cylinder into abutment of housing 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.

Non-Tilt Column — Place lock in "LOCK" position and insert cylinder into housing. While pushing in, cylinder will snap into position.

Ignition Switch & Lock Cylinders

ALL MANUFACTURERS (Cont.)

Jeep — 1) Install lock cylinder in housing. Insert key in lock and turn clockwise until key stops.

2) Push cylinder in until it bottoms. Turn key counterclockwise until drive meshes with sector.

3) Push cylinder in so tab engages with keyway in housing.

IGNITION SWITCH REMOVAL

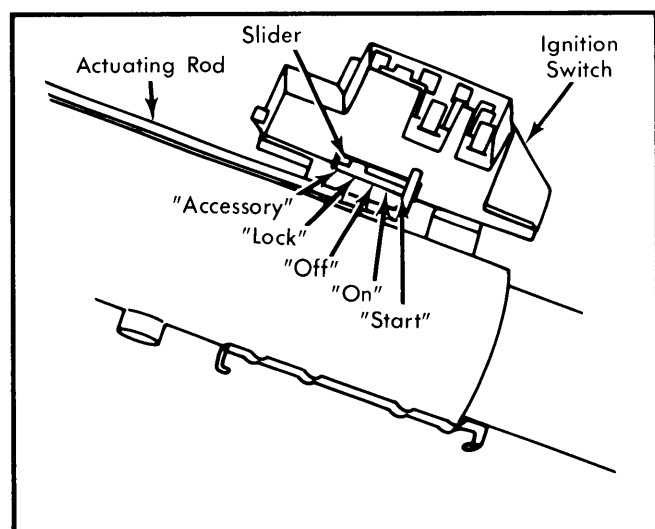
Chrysler Corp. — Ignition switch is in upper end of steering column. With lock cylinder removed, remove 3 retaining screws and switch.

Ford Motor Co. — 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.

International Harvester — Place lock in "ACC" position on tilt column, "LOCK" position on non-tilt column. Remove 2 mounting screws and remove switch.



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

Jeep — Place lock in "OFF-LOCK" position and remove 2 mounting screws. Disconnect switch from remote rod, harness connector and remove switch.

IGNITION SWITCH INSTALLATION

Chrysler Corp. — Install ignition switch to column ensuring that key in housing is indexed with slot in steering jacket. Install retaining screws and tighten, making sure not to change switch position.

Ford Motor Co. — 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 — Place lock and switch in "LOCK" position. Install actuating rod into switch and install switch using 2 mounting screws. Tighten, making sure not to change switch position.

International Harvester, Tilt Column — 1) Place lock in "ACC" position. Move slider on ignition switch to extreme right ("ACC" position).

2) Fit actuator rod in slider slot and mount switch to column with 2 screws. Move switch down column (away from steering wheel), tighten mounting screws, making sure not to change switch position.

Non-Tilt Column — 1) Place lock in "LOCK" position. Move slider on ignition switch to extreme left position and move back 1 click.

2) Fit actuator rod in slider slot and mount switch to column with 2 screws, making sure not to change switch position.

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

Jeep — 1) Place lock in "OFF-LOCK" position. Move slider to extreme left position and move back 2 clicks.

2) Fit actuator rod in slider slot and mount switch to column with 2 screws, making sure not to change switch position.