1970-74 GENERAL MOTORS ELECTRIC

DESCRIPTION & OPERATION

GM electric door lock system incorporates a solenoid for each door and a control switch for each FRONT door except Chevrolet Camaro and Pontiac Firebird which has one instrument panel switch. All doors lock and unlock electrically from the control switch, or manually from each door in the conventional manner.

Each solenoid has an internal circuit breaker which (under extreme conditions) may require up to three minutes to automatically reset. Wiring harness for the door lock system is routed in the power window harness conduit.

TESTING & TROUBLE SHOOTING

NOTE — In the following text "F Styles" denotes Chevrolet Camaro, and Pontiac Firebird.

ALL STYLES EXC. "F" (USING TEST LAMP)

Circuit Breaker

1) Connect test lamp across ground and circuit breaker output terminal. Lamp should light.

2) If lamp does not light, check circuit breaker input terminal. If lamp lights on input terminal but not on output terminal, replace circuit breaker.

3) If lamps blinks (breaker clicking "on & off") there is a short circuit in feed wiring.

Junction Block Output

1) Connect test prod into junction block output terminal. If lamp does not light, check power feed jumper to junction block.

2) If lamp lights, check feed wiring for open or disconnect in circuit.

3) Disconnect feed connector (orange/black, dark green and black wires) and insert test lamp prod into feed (orange/black) terminal. If no light, there is an open or short circuit in feed circuit.

Door Lock Control Switch

1) After removing door trim panel, insert test lamp prod into feed terminal of switch block. If lamp does not light, repair open or short circuit in orange/black wire.

2) Connect a jumper lead between feed and lock (or unlock) terminal. If locks operate in both cycles, renew switch.

Front and Rear Door Solenoid Test

1) Disconnect solenoid connector and insert test lamp prod into connector. If lamp lights at both terminals when switch is actuated and solenoid is properly grounded, replace solenoid.

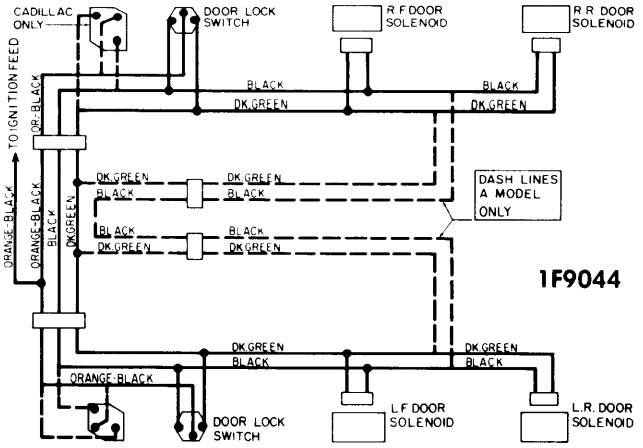
2) If lamp does not light at both terminals, repair open or short circuit in black or dark green wire.

NOTE — On some "A" styles it may be necessary to remove center pillar trim and insert test lamp prod into center pillar connector (black and dark green wires). If lamp does not light, check for open or short circuit in wires.

"F" STYLE (USING TEST LAMP)

Door Lock Control Switch

1) Insert test prod into feed wire insulation at switch base. If lamp does not light, repair open or short circuit in feed wire from circuit breaker.



1970-73 POWER DOOR LOCK WIRING "A-B-C-E" STYLES

2) Disengage switch jumper harness connector (black and dark green wires) from door lock center harness connector.

3) Insert test prod into each terminal of switch jumper harness connector (black wire-unlock and dark green wire-lock) and actuate switch accordingly.

4) If lamp does not light at both terminals, repair open wire or replace switch.

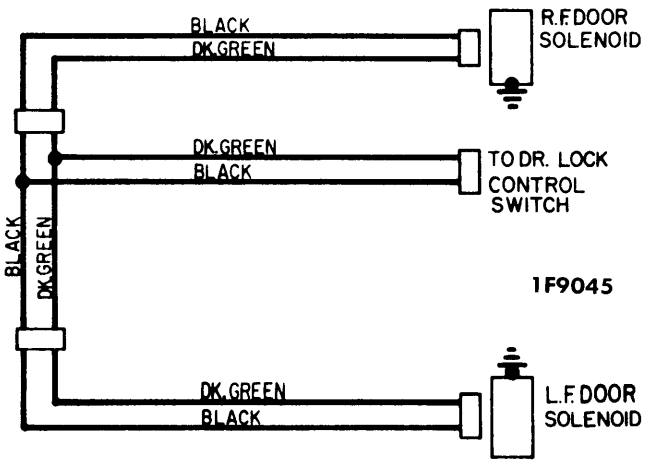
Door Lock Center Harness

1) Remove left shroud side finishing panel and disengage lock center harness from lock solenoid harness.

2) Connect a jumper wire from circuit breaker output at fuse block to door lock center harness feed connector. Insert test lamp prod into corresponding terminal at left shroud side connector.

3) If lamp does not light, check for open or short circuit. If lamp lights, repeat step 2 for other terminals.

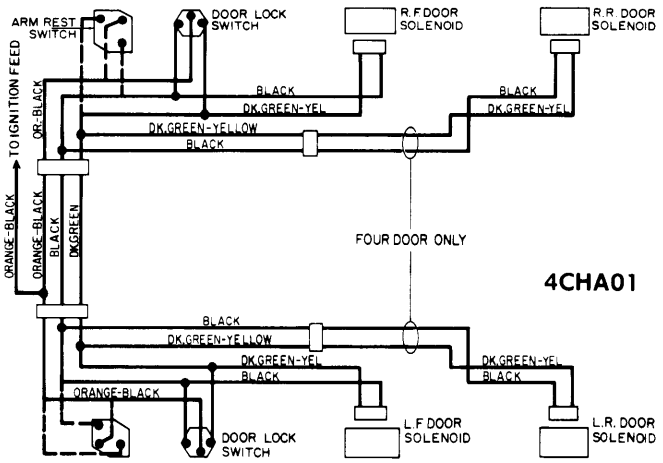
4) If lamp lights at both terminals at left shroud, repeat above steps at right shroud side panel.



1970-74 POWER DOOR LOCK WIRING "F" STYLE

Power Door Locks

1970-74 GENERAL MOTORS ELECTRIC (Cont.)



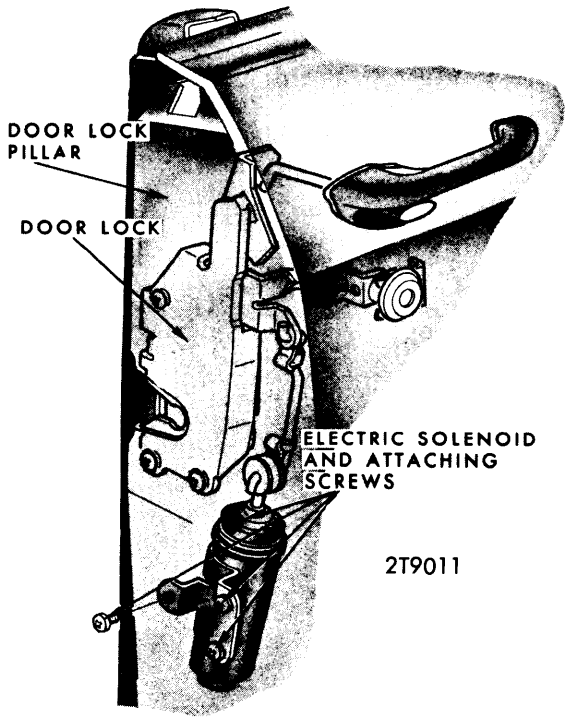
1974 POWER DOOR LOCK WIRING "A-B-C-D-D" STYLES

Solenoid & Harness

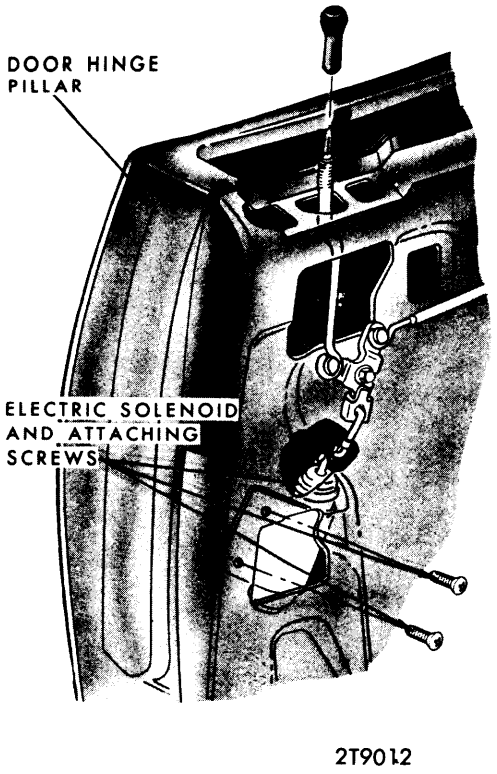
1) With door trim pad removed, disengage solenoid harness from solenoid.

2) Connect a jumper wire from the circuit breaker output at fuse block to first one terminal of the solenoid and then the other. If solenoid operates in both functions there is an open or short circuit in solenoid harness.

3) If solenoid does not operate in both functions and no mechanical binds exist, replace solenoid.



FRONT DOOR LOCK ELECTRIC SOLENOID



REAR DOOR LOCK ELECTRIC SOLENOID