

## GENERAL MOTORS – SOLENOID ACTUATED

Buick  
 Skylark  
 Chevrolet  
 Nova, Camaro  
 Oldsmobile  
 Omega  
 Pontiac  
 Ventura, Phoenix, Firebird

### DESCRIPTION

GM electric door lock system incorporates a solenoid for each door and a control switch for each front door, except Pontiac Firebird which has one instrument panel switch. All doors lock and unlock electrically from 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

**NOTE** — In following text, "F" denotes Pontiac Firebird body styles.

#### ALL BODY STYLES EXC. "F"

**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. If lamp blinks (breaker clicking on and off) there is a short circuit in feed wiring.

**Junction Block Output** — 1) Connect test light prod into junction block output terminal. If lamp does not light, check power feed jumper to junction block. If lamp lights, check feed wiring for open circuit.

2) Disconnect feed connector (ORANGE-BLACK, DARK GREEN and BLACK wires) and insert test lamp prod into feed (ORANGE-BLACK) terminal. If no light, check for an open or short in feed circuit.

**Door Lock Control Switch** — 1) With door trim panel removed, insert test lamp prod into feed terminal of switch block. If lamp does not light, repair open or short in ORANGE-BLACK wire.

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

**Front & Rear Door Solenoid** — 1) Disconnect solenoid connector and insert test lamp prod into connector. If lamp lights at both terminals when switch is actuated, switch and feed wires are okay. Check solenoid ground and solenoid operation with separate power source.

2) If lamp does not light at both terminals, repair open or short circuit in BLACK or DARK GREEN wire.

#### "F" BODY STYLES

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

2) Disengage switch jumper harness connector (BLACK and DARK GREEN wires) from door lock center harness connector. Insert test prod into each terminal of switch jumper harness connector (BLACK wire, unlock and DARK GREEN wire, lock) and actuate switch accordingly. If lamp does not light at both terminals, repair open wire or replace switch.

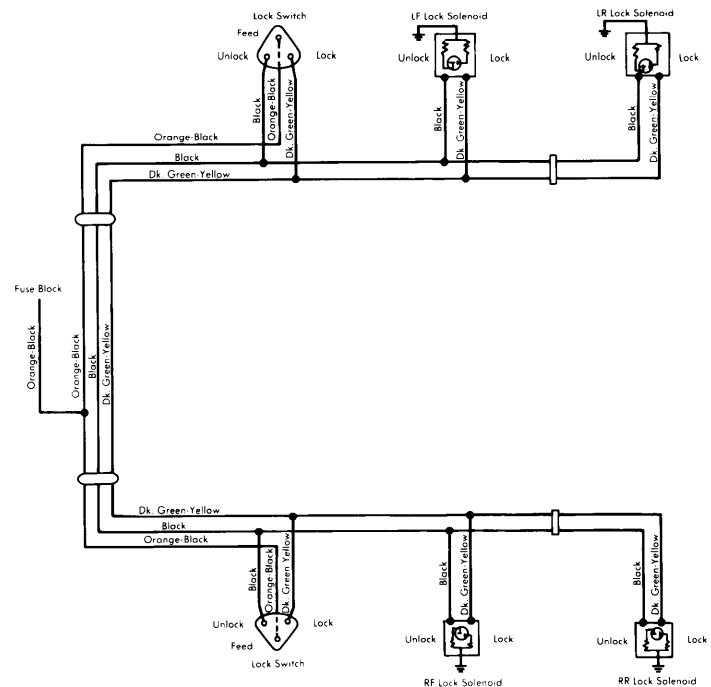


Fig. 1 Solenoid Actuated Door Lock Wiring Diagram  
 Nova, Ventura, Phoenix, Omega, Skylark

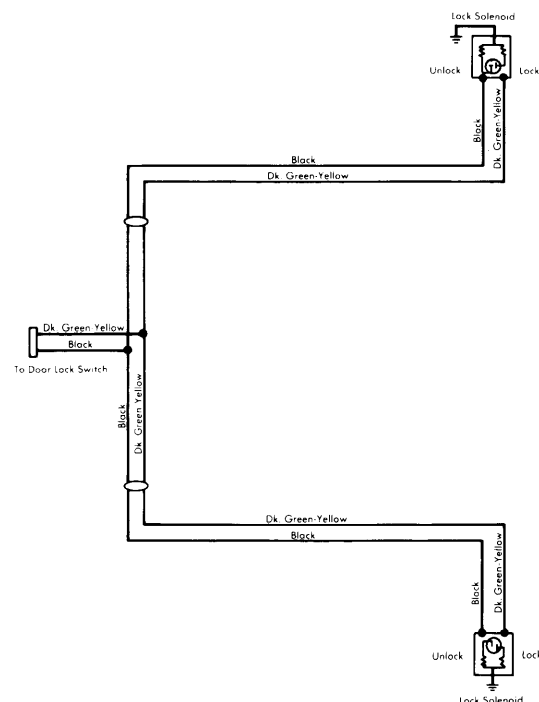


Fig. 2 Solenoid Actuated Door Lock Wiring Diagram  
 Pontiac Firebird

## GENERAL MOTORS – SOLENOID ACTUATED (CONT.)

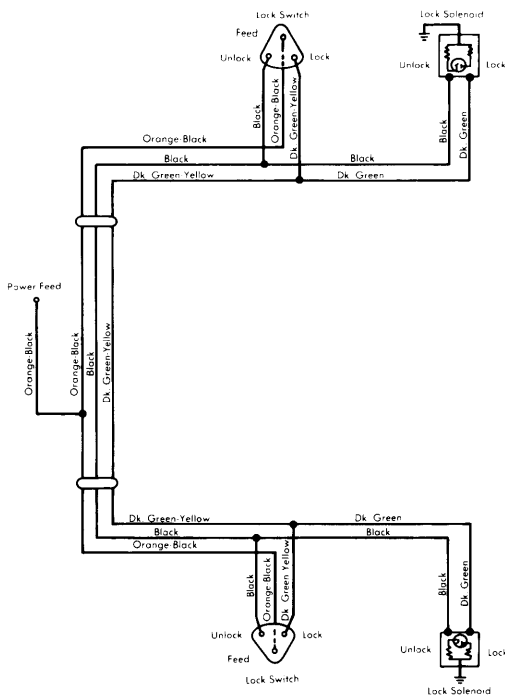


Fig. 3 Solenoid Actuated Door Lock Wiring Diagram  
Chevrolet Camaro

**Solenoid & Harness** – 1) With door trim removed, disengage solenoid harness from solenoid. Connect a jumper wire from circuit breaker output at fuse block to one terminal of solenoid and then the other terminal.

2) If solenoid operates in both functions there is an open or short circuit in solenoid harness. If solenoid does not operate in both functions and no mechanical binds exist, replace solenoid.

**NOTE** – Prior to solenoid replacement, ensure that solenoid body is properly grounded.

**Door Lock Center Harness** – 1) Remove left shroud side finishing panel and disengage lock center harness from lock solenoid harness. 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.

2) If lamp does not light, check for open or short circuits. If lamp lights, repeat step two for other terminals. If lamp lights at both terminals at left shroud, repeat above steps at right shroud side panel.