

DOOR LOCKS - POWER

1998 Pontiac Bonneville

1998 ACCESSORIES & EQUIPMENT
General Motors Corp. - Power Door Locks

Buick; LeSabre
Oldsmobile; Eighty Eight, LSS & Regency
Pontiac; Bonneville

* PLEASE READ THIS FIRST *

WARNING: Before servicing steering column or related components, see SERVICE PRECAUTIONS and DISABLING & ACTIVATING AIR BAG SYSTEM in AIR BAG RESTRAINT SYSTEM article.

NOTE: Body Control Module (BCM) may also be referred to as Multi-Function Alarm, Lock & Lighting (MALL) module.

NOTE: On some vehicles, the power door lock system is integrated with the Remote Keyless Entry (RKE) system. For information on RKE, see REMOTE KEYLESS ENTRY SYSTEM article.

DESCRIPTION & OPERATION

Reversible actuators control the power door locks. The Body Control Module (BCM), also referred to as Multifunction Alarm, Lock & Lighting (MALL) module supplies battery voltage and ground when module receives an input signal from a front power door lock switch.

Each door lock actuator contains an electronic circuit breaker which opens to protect actuator from damage when door lock actuator is overloaded. Circuit breaker will reset when voltage is removed from actuator.

The Automatic Door Lock (ADL) operation is controlled by the Body Control Module (BCM). ADL operation can be customized. See SYSTEM CUSTOMIZATION. BCM/MALL unlocks all doors when pressing UNLOCK once on either front door lock switch.

AUTOMATIC DOOR LOCKS

On vehicles equipped with Remote Keyless Entry (RKE), automatic door lock function is controlled by the Remote Function Actuator (RFA). On all vehicles, circuit from the park/neutral switch signals when gear selector is in Park. Voltage signal is sent to MALL module when gear selector is in Park. When left door is closed, ignition switch in RUN position, and gear selector is out of Park, RFA or MALL module commands the doors to lock. RFA or MALL module can also be programmed to unlock the doors when gear selector is placed back into Park. See SYSTEM CUSTOMIZATION.

TROUBLE SHOOTING

VISUAL & OPERATIONAL INSPECTION

Before performing tests, perform a visual inspection of the following items:

- * Inspect DR LKS fuse for an open (located in instrument panel fuse block). If fuse is open, check Orange wire for a short to ground between fuse block and Body Control Module (BCM).

- * Inspect CTSY LP/PWR MIR fuse for an open (located in

instrument panel fuse block). If fuse is open, check Orange wire for a short to ground between fuse block and BCM.

- * Inspect T/SIG/BULP/BTSI fuse for an open (located in instrument panel fuse block). If fuse is open, check Pink wire for a short to ground between fuse block and Park/Neutral switch.

- * Inspect ground connector located behind right kick panel trim plate.

- * Inspect door lock system for mechanical binding.

- * If one actuator does not operate properly, but other actuators operate normally, inspect wiring to suspect actuator. If wiring is okay, check for a poor connection. If no poor connections are found, replace suspect actuator.

- * Each door lock actuator contains an electronic circuit breaker. Resistance in door lock actuator will increase if door lock actuator is overloaded. Resistance will return to normal after voltage is removed from actuator terminals. Check for a broken or partially broken wire inside wire insulation which could cause a system malfunction but check good during a continuity or voltage check.

- * Always check terminal contact before replacing any component.

- * Inspect for proper installation of aftermarket electronic equipment which may affect system operation.

SYSTEM CUSTOMIZATION

AUTOMATIC DOOR LOCK OPERATION MODES

The following are customized selections/modes. To change/select mode feature, go to CHANGING AUTOMATIC DOOR LOCK OPERATION MODE.

Mode 0

No automatic door lock/unlock.

Mode 1

All doors automatically lock when transaxle is shifted out of Park. No automatic door unlock.

Mode 2

All doors automatically lock when transaxle is shifted out of Park. Only driver's door automatically unlocks when transaxle is shifted into Park.

Mode 3

All doors automatically lock when transaxle is shifted out of Park and unlocks when transaxle is shifted into Park.

CHANGING AUTOMATIC DOOR LOCK OPERATION MODE

NOTE: Vehicles are delivered programmed in Mode 3.

Without RKE

1) Close all doors. Turn ignition on. Ensure doors are kept closed throughout the entire process.

2) Press and hold LOCK button on driver's door power door lock switch. While holding LOCK button, cycle shift lever starting from Park through gear selections to advance by one mode for each cycle.

3) After the first cycle, a door locking action will be heard, which identifies the current/selected mode. Release power door lock switch.

With RKE

1) Close all doors. Turn ignition on. Ensure doors are kept closed throughout the entire process.

2) Press and hold driver's power door lock switch in LOCK position. Press LOCK button on RKE transmitter. The automatic door locks will remain in current mode.

3) Press LOCK button on RKE transmitter again. Each time transmitter's LOCK button is pressed, mode will advance by one, going from Mode 3 to Mode 1 to Mode 2, etc. Mode 0 has no feedback.

4) When desired mode setting is reached, release door lock switch and turn ignition off. Automatic door lock operation will remain in the most recent mode selected.

DELAYED LOCKING (OPTIONAL)

NOTE: Delayed locking is defaulted when vehicles are delivered.

Without RKE

1) Turn ignition on. Press and hold LOCK button on driver's power door lock switch. All doors will lock.

NOTE: Perform next step within 10 seconds after pressing LOCK on door switch.

2) Cycle headlight switch 4 times. On third cycle, doors will unlock to confirm feature is activated or will remain locked if delayed locking is in non-active mode.

3) To change mode, cycle headlight switch one more time. A locking action will confirm the new mode. Release power door lock switch. To turn feature off, repeat previous procedure.

With RKE

1) Press and hold power door lock switch in LOCK position throughout this procedure. All doors will unlock.

2) Using RKE transmitter, press UNLOCK button on transmitter. Lock delay is still off and all doors will unlock.

3) Press UNLOCK button on transmitter again. Lock delay is now active and all doors will unlock.

4) Release power lock switch. To turn feature off, repeat previous procedure.

DIAGNOSIS & TESTING

NOTE: Body Control Module (BCM) may also be referred to as Multifunction Alarm, Lock & Lighting (MALL) module.

SYMPTOM DIAGNOSIS TABLE

Symptom	Go To
Doors Do Not Lock/Unlock From Either Door Lock Switch Or RKE Transmitter (If Equipped)	Test No. 1
Doors Do Not Lock/Unlock From Either Door Lock Switch; Operates Normally W/RKE Transmitter	Test No. 2
One Door Lock Switch Does Not Lock/Unlock; Other Switches Okay	Test No. 3
Doors Do Not Lock From Either Door Lock Switch	Test No. 4
Doors Do Not Lock From Either Door Door Lock Switch; Operates Normally W/RKE Transmitter	Test No. 5

Doors Do Not Unlock From Either Door Lock Switch Or RKE Transmitter	Test No. 6
Door Do Not Lock From One Door Switch Only	Test No. 7
Door Do Not Unlock From One Door Switch Only	Test No. 8
One Door Lock Actuator Does Not Operate; All Others Operate Normally	Test No. 9
Left Front Door Actuator Does Not Operate From Front Door Lock Switches Or RKE Transmitter	Test No. 10
Only Left Front Door Actuator Operates From Front Door Lock Switches Or RKE Transmitter	Test No. 11
One Door Lock Actuator (Except LF) Does Not Operate; All Others Okay	Test No. 12
Doors Do Not Lock When Shifting Out Of Park; Doors Do Not Unlock When Shifting Into Park W/Key Off (Bonneville W/O RKE)	Test No. 13

TEST NO. 1

1) Press and hold UNLOCK button on power door lock switch. Cycle headlights 6 times. Release door lock switch. MALL module will enter diagnostic mode. MALL module may sound a few "bongs" indicating that DTC(s) is set. The number of "bongs" represents code number. FASTEN SEAT BELT indicator light will flash with each "bong" sound. To identify and diagnose DTC, see BODY CONTROL MODULE article.

2) Press UNLOCK then LOCK on front power door lock switch. MALL module should sound one "bong" each time LOCK and UNLOCK button on door lock switch is pressed or 2 "bongs" each time RKE transmitter (if equipped) LOCK/UNLOCK button is pressed. If "bong" sound is as specified, go to step 4). If "bong" sound is not as specified, go to next step.

3) Check other functions controlled by BCM/MALL, including audible warnings and interior lights. If BCM/MALL controlled functions operate, go to next step. If BCM/MALL controlled functions does not operate, see BODY CONTROL MODULE article.

4) Backprobe test light between MALL module harness connector C1 terminals "A" (Tan wire) and "C" (Gray wire). See WIRING DIAGRAMS. Press LOCK then UNLOCK button on front power door lock switch. If test light illuminates when buttons are pressed, go to step 8). If test light does not illuminate when buttons are pressed, go to next step.

5) Check terminal contact at MALL harness connector C1. If terminal contacts are okay, go to step 7). If terminal contacts are faulty, go to next step.

6) Repair faulty terminal contact. After repairs, recheck system operation.

7) Replace MALL module. After replacing module, recheck system operation.

8) Using test light connected to ground, backprobe any door lock actuator connector terminal "B" (Gray wire). Press LOCK button on front power door lock switch. If test light illuminates, go to step 10). If test light does not illuminate, go to next step.

9) Repair open in Gray wire or poor terminal contact at MALL module harness connector C1 terminal "C" (Gray wire). After repairs, recheck system operation.

10) Repair open in Tan wire or poor terminal contact at MALL module harness connector C1 terminal "A" (Tan wire). After repairs, recheck system operation.

TEST NO. 2

Repair open in Black wire between power door lock switch and ground connector. See WIRING DIAGRAMS. After repairs, recheck system operation.

TEST NO. 3

1) Disconnect MALL module harness connector C2. Using DVOM, check resistance between ground and inoperative front power door lock switch harness connector terminal "B" (Black wire). See WIRING DIAGRAMS. If resistance is less than 5 ohms, go to step 5). If resistance is not less than 5 ohms, go to next step.

2) Check for open in Black wire between inoperative door lock switch and ground. If circuit is open, go to next step. If circuit is okay, go to step 4).

3) Repair open in Black wire. After repairs, recheck system operation.

4) Check for poor terminal contact at inoperative front power door lock switch. If terminal contact is okay, go to step 6). If terminal contact is faulty, go to next step.

5) Repair terminal contact at door lock switch connector. After repairs, recheck system operation.

6) Replace inoperative front power door lock switch. After replacing switch, recheck system operation.

TEST NO. 4

1) Press and hold UNLOCK button on power door lock switch. Cycle headlights 6 times. Release door lock switch. MALL module will enter diagnostic mode. MALL module may sound a few "bongs", indicating that DTC(s) is set. The number of "bongs" represents code number. FASTEN SEAT BELT indicator light will flash with each "bong" sound. To identify and diagnose DTC, see BODY CONTROL MODULE article.

2) Press LOCK on front power door lock switch. MALL module should sound one "bong" each time LOCK button on door lock switch is pressed. If "bong" sound is as specified, go to next step. If "bong" sound is not as specified, go to step 5).

3) Turn ignition off. Disconnect MALL module harness connector C1. Using DVOM, check resistance between ground and MALL module harness connector C1 terminal "C" (Gray wire). See WIRING DIAGRAMS. If circuit is shorted to ground, go to next step. If circuit is okay, go to step 10).

4) Repair Gray wire. After repairs, recheck system operation.

5) Disconnect MALL module harness connector C2. Using DVOM, check resistance between ground and MALL module harness connector C2 terminal C7 (Red/Black wire). Press LOCK on front power door lock switch. If resistance is less than 5 ohms, go to next step. If resistance is not less than 5 ohms, go to step 8).

6) Check MALL module harness connector C2 for proper terminal contact. If terminal contact is okay, go to step 10). If terminal contact is not okay, go to next step.

7) Repair terminal contact at MALL module harness connector C2. After repairs, recheck system operation.

8) Check for open in Red/Black wire between MALL module harness connector C2 and splice to right front power door lock switch. If circuit is open, go to next step. If circuit is okay, go to step 10).

9) Repair open in Red/Black wire. After repairs, recheck system operation.

10) Replace MALL module. After replacing module, recheck system operation.

TEST NO. 5

NOTE: Use of Tech 1 or 2 scan tool is required. Follow scan tool manufacturer's instructions for connection and operation functions.

1) Connect scan tool to Data Link Connector (DLC). Using scan tool, select RFA DATA LIST FUNCTION-KEY FOB INFO function. Press LOCK on front power door lock switch. Observe scan tool. If scan tool indicates that Remote Function Actuator (RFA) module is receiving input signal from door switch, go to step 6). If scan tool does not indicate that RFA module is receiving input signal from door switch, go to next step.

2) Check for open or short to ground in Red/Black wire between RFA module and affected front power door lock switch. See WIRING DIAGRAMS. If circuit is okay, go to step 4). If circuit is not okay, go to next step.

3) Repair Red/Black wire. After repairs, recheck system operation.

4) Check RFA module harness connector for poor terminal contact. If terminal contact is okay, go to step 6). If terminal contact is faulty, go to next step.

5) Repair connector terminal contact. After repairs, recheck system operation.

6) Replace RFA module. After replacing module, recheck system operation.

TEST NO. 6

1) Press and hold UNLOCK button on power door lock switch. Cycle headlights 6 times. Release door lock switch. MALL module will enter diagnostic mode. MALL module may sound a few "bongs", indicating that DTC(s) is set. The number of "bongs" represents code number. FASTEN SEAT BELT indicator light will flash with each "bong" sound. To identify and diagnose DTC, see BODY CONTROL MODULE article.

2) Press UNLOCK button on front power door lock switch. MALL module should sound one "bong" each time button on door lock switch is pressed. If "bong" sound is as specified, go to next step. If "bong" sound is not as specified, go to step 5).

3) Turn ignition off. Disconnect MALL module harness connector C1. Using DVOM, check resistance between ground and MALL module harness connector C1 terminal "A" (Tan wire). See WIRING DIAGRAMS. Check if circuit is shorted to ground. If circuit is shorted to ground, go to next step. If circuit is okay, go to step 10).

4) Repair Tan wire. After repairs, recheck system operation.

5) Disconnect MALL module harness connector C2. Using DVOM, check resistance between ground and MALL module harness connector C2 terminal C6 (Orange/Black wire). Press UNLOCK button on front power door lock switch. If resistance is less than 5 ohms, go to next step. If resistance is not less than 5 ohms, go to step 8).

6) Check MALL module harness connector terminal C6 (Orange/Black wire) for proper terminal contact. If MALL terminal C6 contact is okay, go to step 10). If terminal contact is not okay, go to step 7).

7) Repair faulty terminal contact. After repairs, recheck system operation.

8) Check for open in Orange/Black wire between MALL module harness connector and splice. If circuit is open, go to next step. If circuit is not open, go to step 10).

9) Repair Orange/Black wire. After repairs, recheck system operation.

10) Replace MALL module. After replacing module, recheck system operation.

TEST NO. 7

1) Turn ignition off. Disconnect MALL module harness connector C2. Using DVOM connected to ground, backprobe inoperative front door lock switch harness connector terminal "C" (Red/Black wire). See WIRING DIAGRAMS. Press LOCK button on inoperative power door lock switch. If resistance is less than 5 ohms, go to next step. If resistance is not less than 5 ohms, go to step 3).

2) Repair open in Red/Black wire between inoperative front door lock switch and splice. After repairs, recheck system operation.

3) Check for poor terminal contact at inoperative front power door lock switch harness connector. If terminal contact is okay, go to step 5). If terminal contact is faulty, go to next step.

4) Repair terminal contact at front power door lock switch connector. After repairs, recheck system operation.

5) Replace inoperative front door lock switch. After replacing switch, recheck system operation.

TEST NO. 8

1) Turn ignition off. Disconnect MALL module harness connector C2. Using DVOM connected to ground, backprobe inoperative front door lock switch harness connector terminal "A" (Orange/Black wire). See WIRING DIAGRAMS. Press UNLOCK button on inoperative power door lock switch. If resistance is less than 5 ohms, go to next step. If resistance is not less than 5 ohms, go to step 3).

2) Repair open in Orange/Black wire between inoperative front door lock switch and splice. After repairs, recheck system operation.

3) Check for poor terminal contact at inoperative front power door lock switch harness connector. If terminal contact is okay, go to step 5). If terminal contact is faulty, go to next step.

4) Repair terminal contact at front power door lock switch connector. After repairs, recheck system operation.

5) Replace inoperative front door lock switch. After replacing switch, recheck system operation.

TEST NO. 9

1) Using test light connected to ground, backprobe inoperative door lock actuator connector terminal "A" (Tan wire). See WIRING DIAGRAMS. Press LOCK button on front power door lock switch. If test light illuminates, go to step 3). If test light does not illuminate, go to next step.

2) Repair open in Tan between door lock actuator and splice connector. After repairs, recheck system operation.

3) Using test light connected to ground, backprobe inoperative door lock actuator connector terminal "B" (Gray wire). Press UNLOCK button on front power door lock switch. If test light illuminates, go to step 5). If test light does not illuminate, go to next step.

4) Repair open in Gray wire between door lock actuator and splice connector. After repairs, recheck system operation.

5) Check for poor terminal contact at door lock actuator connector. If terminal contact is okay, go to step 7). If terminal contact is faulty, go to next step.

6) Repair terminal contact at door lock actuator connector. After repairs, recheck system operation.

7) Replace inoperative door lock actuator. After replacing actuator, recheck system operation.

TEST NO. 10

1) Using test light connected to ground, backprobe left front door lock actuator connector terminal "A" (Tan wire). See WIRING DIAGRAMS. Press UNLOCK button on left front power door lock switch. If test light illuminates, go to step 5). If test light does not illuminate, go to next step.

2) Check for open in Tan wire between left front door lock isolation relay and left front door lock actuator connector terminal "A" (Tan wire). If circuit is open, go to next step. If circuit is okay, go to step 4).

3) Repair for open in Tan wire. After repairs, recheck system operation.

4) Repair poor terminal contact at MALL module harness connector C1 terminal "A" (Tan wire) and left front door lock isolation relay terminal No. 87A (Tan wire). After repairs, recheck system operation.

5) Using test light connected to ground, backprobe left front door lock actuator connector terminal "B" (Gray wire). Press LOCK button on left front power door lock switch. If test light illuminates, go to step 7). If test light does not illuminate, go to next step.

6) Repair open in Gray wire between left front door actuator and splice connector. After repairs, recheck system operation.

7) Check for poor terminal contact at left front door lock actuator connector. If terminal connection is okay, go to step 9). If terminal contact is faulty, go to next step.

8) Repair actuator terminal contact. After repairs, recheck system operation.

9) Replace left front door lock actuator. After replacing actuator, recheck system operation.

TEST NO. 11

1) Using a test light connected to ground, backprobe left front door lock isolation relay (located in junction block, under right side of dash) terminal No. 30 (Tan wire). See WIRING DIAGRAMS. Press UNLOCK button on left front power door lock switch. If test light illuminates, go to next step. If test light does not illuminate, go to step 3).

2) Repair open in Tan wire between isolation relay and splice. After repairs, recheck system operation.

3) Check for poor terminal contact at left front door isolation relay terminal No. 30. If terminal contact is okay, go to step 5). If terminal contact is faulty, go to next step.

4) Repair terminal contact. After repairs, recheck system operation.

5) Replace left front door isolation relay. After replacing relay, recheck system operation.

TEST NO. 12

1) Using test light connected to ground, backprobe inoperative door lock actuator connector terminal "A" (Tan wire). See WIRING DIAGRAMS. Press LOCK button on front power door lock switch. If test light illuminates, go to step 3). If test light does not illuminate, go to next step.

2) Repair open in Tan wire between door lock actuator and splice connector. After repairs, recheck system operation.

3) Using test light connected to ground, backprobe inoperative door lock actuator connector terminal "B" (Gray wire). Press UNLOCK button on front power door lock switch. If test light illuminates, go to step 5). If test light does not illuminate, go to next step.

4) Repair open in Gray wire between door lock actuator and splice connector. After repairs, recheck system operation.

5) Check for poor terminal contact at door lock actuator connector. If terminal contact is okay, go to step 7). If terminal contact is faulty, go to next step.

6) Repair terminal contact at door lock actuator connector. After repairs, recheck system operation.

7) Replace inoperative door lock actuator. After replacing actuator, recheck system operation.

TEST NO. 13

1) Press and hold UNLOCK button on power door lock switch. Cycle headlights 6 times. Release door lock switch. MALL module will enter diagnostic mode. MALL module may sound a few "bongs", indicating that DTC(s) is set. The number of "bongs" represents code number. FASTEN SEAT BELT indicator light will flash with each "bong" sound. To identify and diagnose DTC, see BODY CONTROL MODULE article.

2) Shift gear selector from Park to Neutral, then back to Park. Turn ignition off. MALL module should sound one "bong" each time gear selector is moved from Park to Neutral, and Neutral to Park. If "bong" sound is as specified, go to next step. If "bong" sound is not as specified, go to step 4).

3) Set automatic door locks to operate in Mode 3. See SYSTEM CUSTOMIZATION. If automatic door lock feature works once this procedure is complete, recheck system operation. If automatic door lock feature does not work, go to next step.

4) Disconnect MALL module harness connector C2. Turn ignition switch to RUN position. Place gear selector in Park. Using DVOM, check voltage between ground and MALL module harness connector C2 terminal D6 (Light Green wire). See WIRING DIAGRAMS. If battery voltage is present, go to step 13). If battery voltage is not present, go to next step.

5) Turn ignition off. Disconnect Park/Neutral Position (PNP) switch harness connector. Check voltage between ground and PNP switch harness connector C1 terminal "B" (Pink wire). If battery voltage is present, go to step 10). If battery voltage is not present, go to next step.

6) Check fuse No. 1B (T/SIG/BULP/BTSI) located in instrument panel fuse block. If fuse is open, go to next step. If fuse is okay, go to step 9).

7) Replace fuse. Check if fuse blows again, go to next step. If fuse is okay, recheck system operation.

8) Repair short to ground in Pink wire. After repairs, recheck system operation.

9) Repair open in Pink wire or open feed circuit to fuse No. 1B in fuse block. After repairs, recheck system operation.

10) Check Light Green wire for open or short to ground. If circuit is okay, go to step 12). If circuit is faulty, go to next step.

11) Repair open or shorted Light Green wire. After repairs, recheck system operation.

12) Replace PNP switch. After replacing switch, recheck system operation.

13) Leave ignition switch in RUN position. Close left front door. Move gear selector to Neutral. Check voltage between ground and MALL module harness connector C2 terminal D6 (Light Green wire). If battery voltage is present, go to next step. If battery voltage is not present, go to step 17).

14) Check Light Green wire for short to battery. If circuit is okay, go to step 16). If circuit is shorted, go to next step.

15) Repair shorted Light Green wire. After repairs, recheck system operation.

16) Replace PNP switch. After replacing switch, recheck system operation.

17) Check for proper terminal contact at MALL module harness connector C2 terminal D6 (Light Green wire). If terminal contact is okay, go to step 19). If terminal contact is faulty, go to next step.

18) Repair MALL module terminal contact. After repairs, recheck system operation.

19) Replace MALL module. After replacing module, recheck system operation.

REMOVAL & INSTALLATION

*** PLEASE READ THIS FIRST ***

CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See COMPUTER RELEARN PROCEDURES article in GENERAL INFORMATION section before disconnecting battery.

DOOR TRIM PANEL

Removal

1) Disconnect negative battery cable. On Eighty-Eight, LSS and Regency, remove trim plate retaining screws and slide door pull handle inward to disengage switch plate. Insert a flat-blade tool between trim panel front or rear edge to disengage retainer clips.

2) On Bonneville and LeSabre, insert a flat-blade tool at front of trim panel to release retaining clip. On all models, lift trim plate and disconnect electrical connector. Remove set screw from remote mirror control (if equipped).

Installation

To install, reverse removal procedure. Ensure switch snaps are engaged into trim plate.

DOOR SWITCHES

Removal & Installation

Disconnect negative battery cable. Remove door trim panel. See DOOR TRIM PANEL. Disconnect switch electrical connectors. Unsnap switch from switch mounting plate. To install, reverse removal procedure.

DOOR LOCK MODULE

Removal

1) Remove door panel trim panel and water deflector. Remove speaker. Remove front run channel. Lower window glass about one inch. Tape glass to header. Remove glass sash nuts.

2) Remove electrical connectors and retainers from panel. Disconnect lock rods from latch assembly. Remove door module mounting nuts. Remove door module.

Installation

To install, reverse removal procedure. Adjust window. To prevent water leaks after installation, ensure water deflector is properly installed.

DOOR LOCK CYLINDER

Removal & Installation

Remove outside handle. Remove lock cylinder retaining clip.
Remove door lock cylinder from handle. To install, reverse removal procedure.

WIRING DIAGRAMS

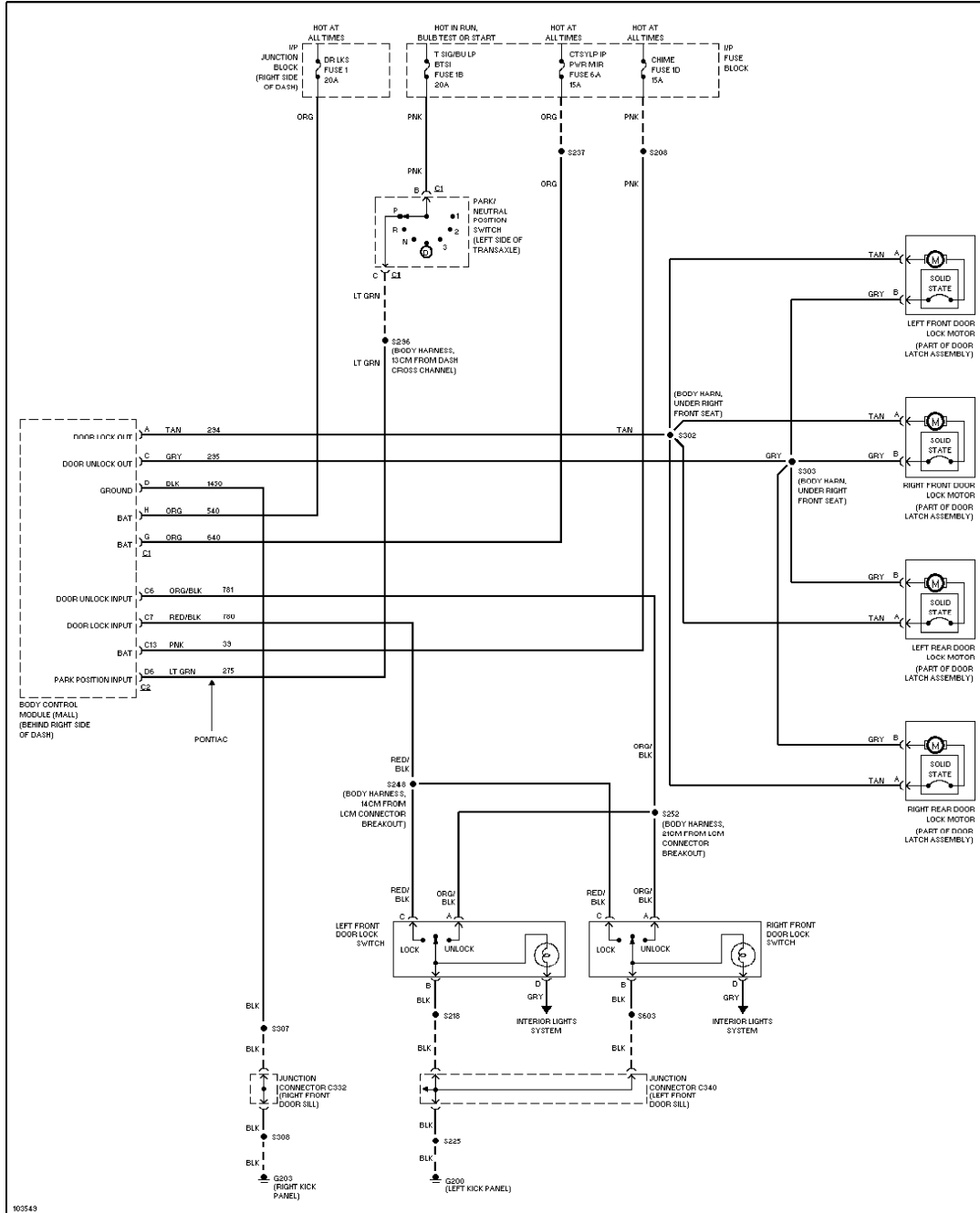


Fig. 1: Power Door Lock System Wiring Diagram