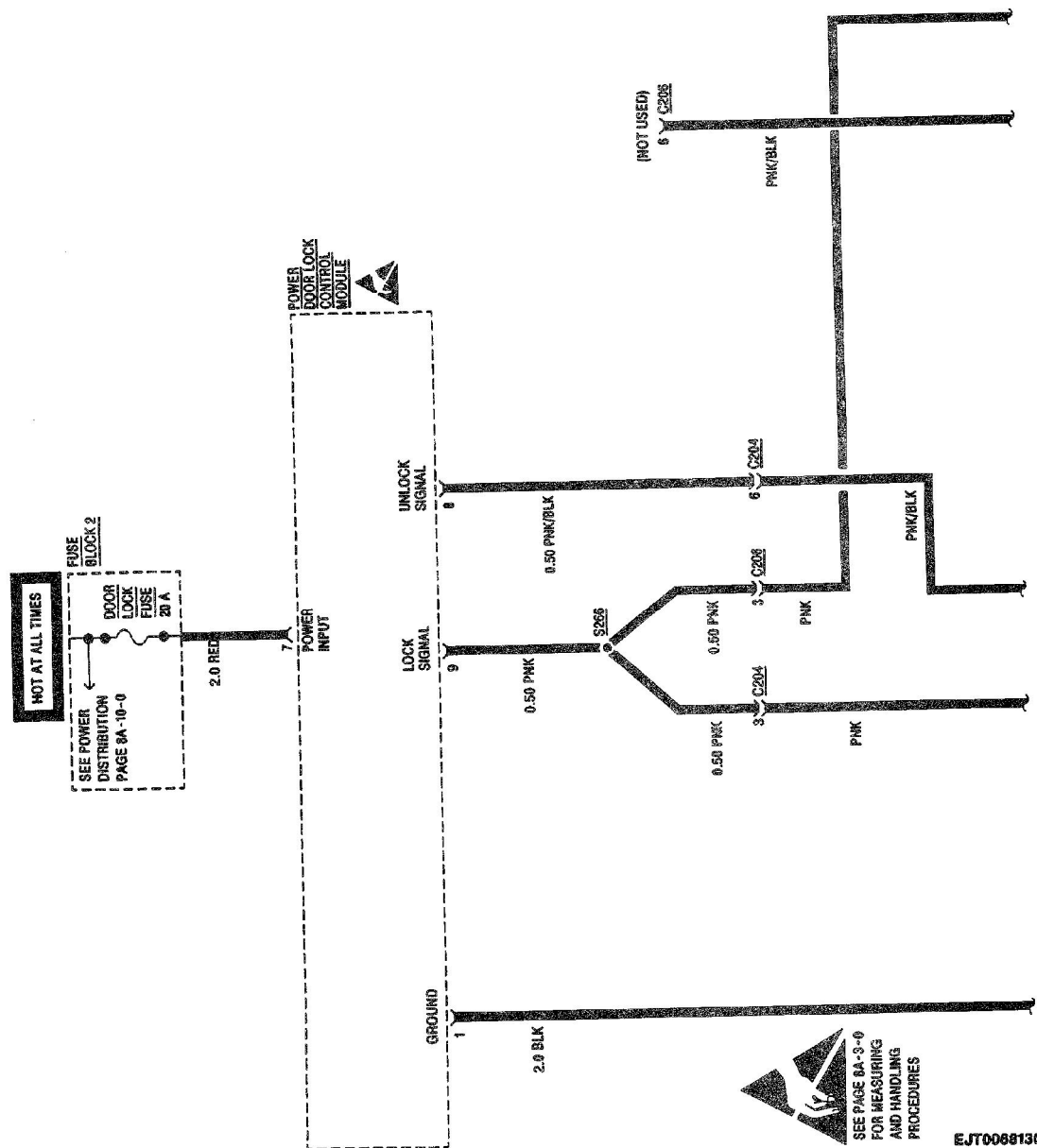
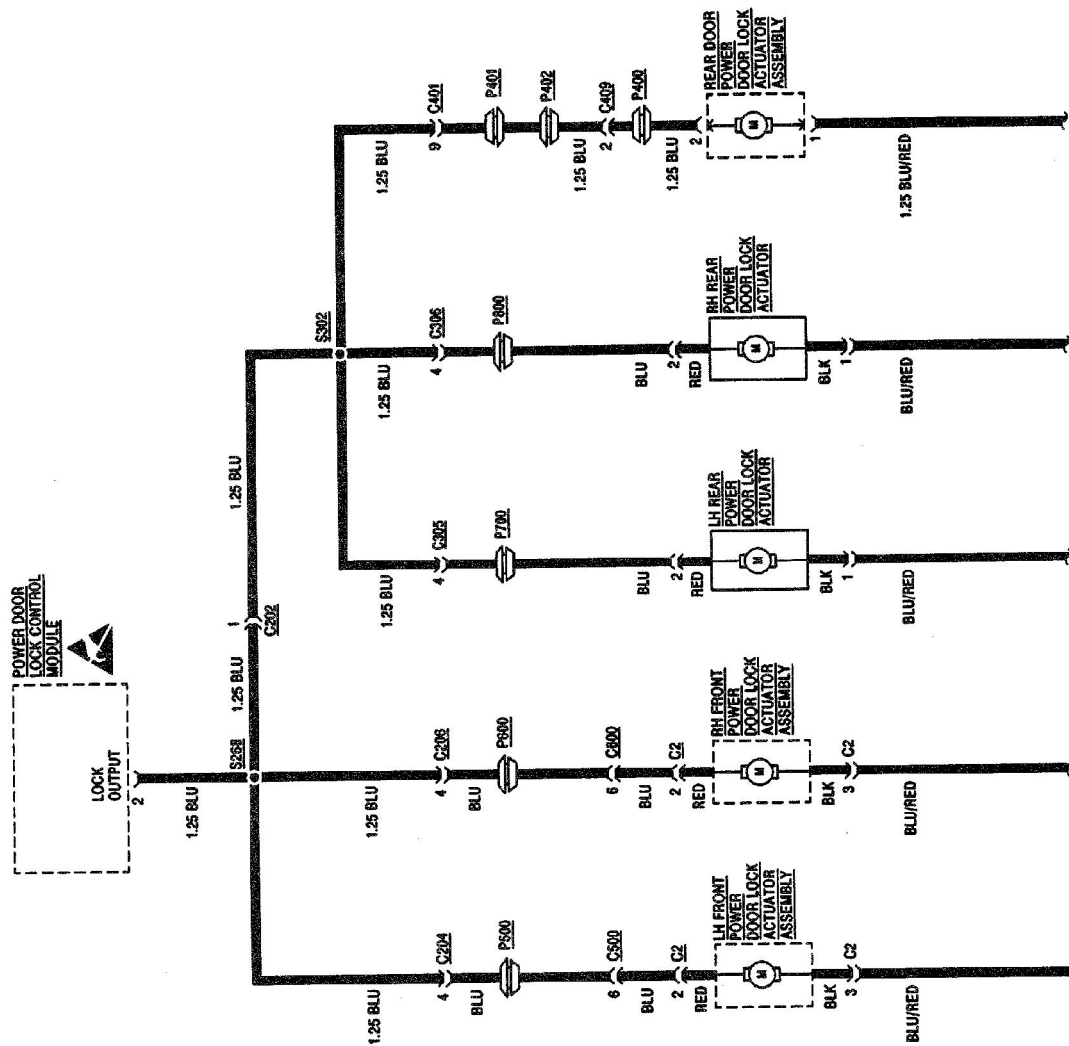
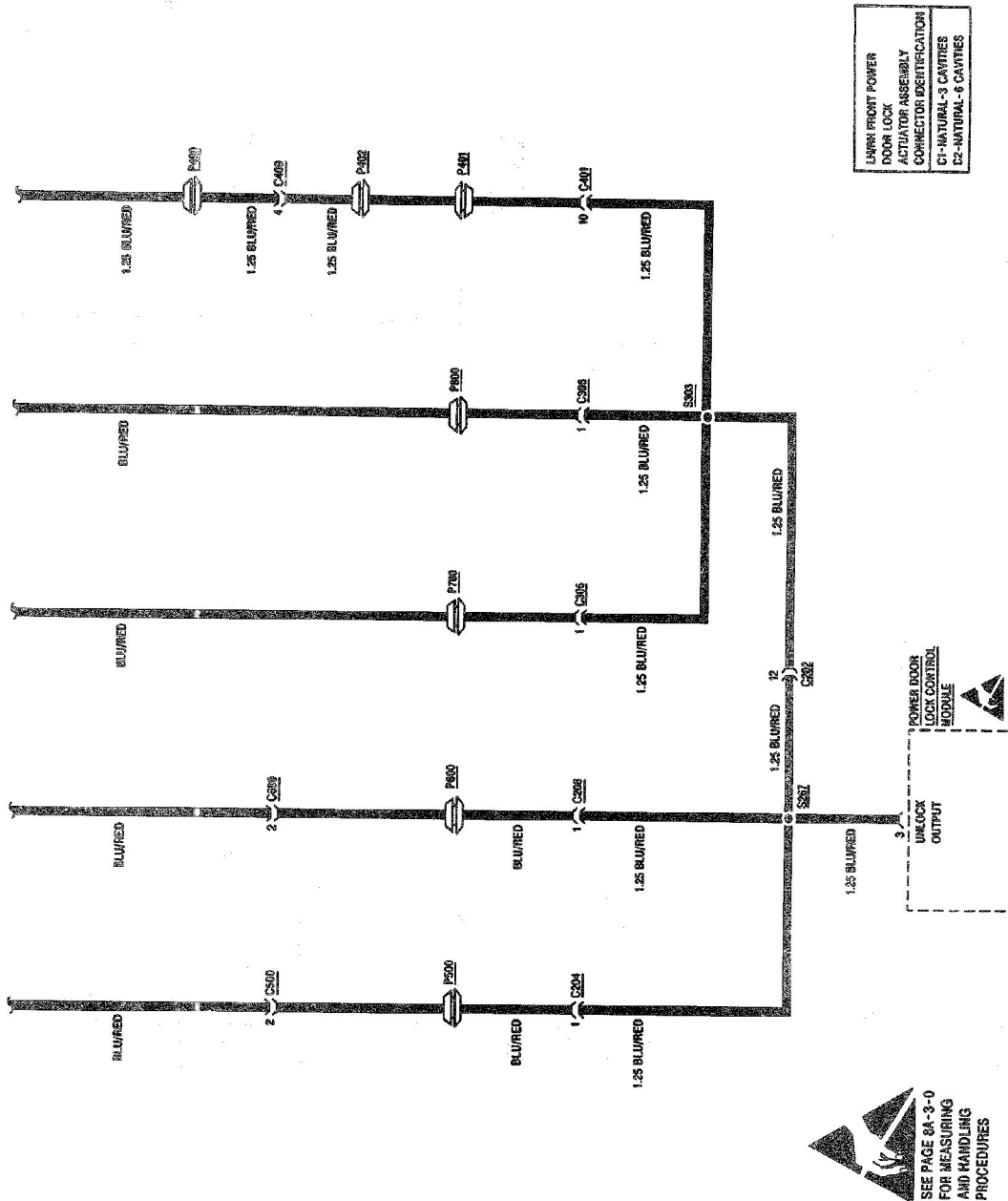


8A - 130 - 0 ELECTRICAL DIAGNOSIS
POWER DOOR LOCKS

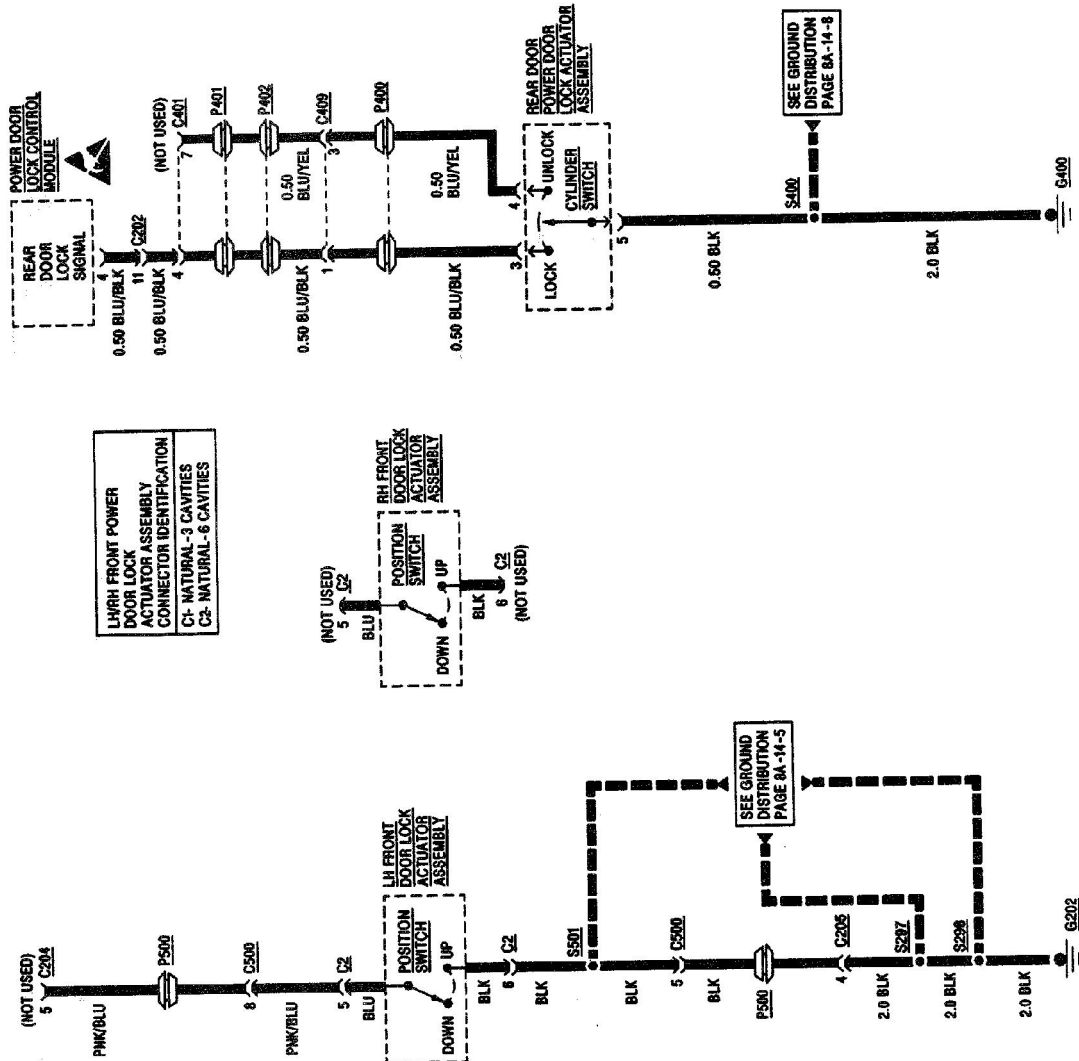


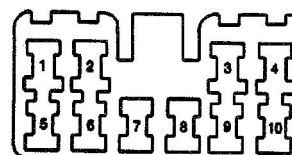
POWER DOOR LOCKS





POWER DOOR LOCKS



POWER DOOR LOCK
CONTROL MODULE

GRAY

EJT0116130

WIRING DETAIL LEGEND

| CAVITY | WIRE COLOR | CIRCUIT |
|--------|---------------|-----------------------|
| 1 | BLK | Ground |
| 2 | BLU | Lock Output |
| 3 | BLU/RED | Unlock Output |
| 4 | BLU/BLK | Rear Door Lock Signal |
| 5 | — | NOT USED |
| 6 | — | NOT USED |
| 7 | RED | Power Input |
| 8 | PNK/BLK | Unlock Signal |
| 9 | PNK | Lock Signal |
| 10 | — | NOT USED |

8A - 130 - 6 ELECTRICAL DIAGNOSIS

POWER DOOR LOCKS

| COMPONENT | LOCATION | 201-PG | FIG. | CONN |
|--|--|--------|------|----------|
| Fuse Block 2 | Under LH I/P..... | 06 | A | |
| LH Front Power Door Lock Actuator Assembly (4-Door LSi) | LH Front Door on Door Latch Assembly | 11 | A | |
| C1 (3 Cavities)..... | LH Front Door, LH Front Door Harness to LH Front Power Door Lock Actuator | | | |
| C2 (6 Cavities)..... | LH Front Door, LH Front Door Harness to LH Front Power Door Lock Actuator | | | 202-15B2 |
| LH Front Power Window/ Door Lock Switch (4-Door LSi) | LH Front Door, in Armrest..... | | | 202-14A2 |
| LH Rear Power Door Lock Actuator (4-Door LSi)..... | LH Rear Door, on Door Latch Assembly..... | 11 | B | |
| Power Door Lock Control Module (4-Door LSi) | LH I/P, behind Power Mirror Switch, left of Steering Column..... | | | 130-05 |
| Rear Door Power Door Lock Actuator Assembly (4-Door LSi) | Rear Door, on Door Latch Assembly..... | 13 | A | |
| RH Front Power Door Lock Actuator Assembly (4-Door LSi) | RH Front Door on Door Latch Assembly | 11 | A | |
| C1 (3 Cavities)..... | RH Front Door, RH Front Door Harness to RH Front Power Door Lock Actuator | | | |
| C2 (6 Cavities)..... | RH Front Door, RH Front Door Harness to RH Front Power Door Lock Actuator | | | 202-15B2 |
| RH Rear Power Door Lock Actuator (4-Door LSi)..... | RH Rear Door, on Door Latch Assembly..... | 11 | B | |
| C202 (22 Cavities)..... | Main Harness to Floor Harness, LH I/P near G200..... | 06 | A | 202-08A1 |
| C204 (6 Cavities) (4-Door LSi) | Main Harness to LH Front Door Harness, LH I/P, near "A" Pillar..... | | | 202-15B3 |
| C205 (4 Cavities) (4-Door LSi) | Main Harness to LH Front Door Harness, LH I/P, near "A" Pillar..... | | | 202-15A1 |
| C206 (6 Cavities) (4-Door LSi) | Main Harness to RH Front Door Harness, RH I/P, near "A" Pillar..... | | | 202-15B3 |
| C207 (4 Cavities) (4-Door LSi) | Main Harness to RH Front Door Harness, RH I/P, near "A" Pillar..... | | | 202-15A1 |
| C305 (6 Cavities) (4-Door)..... | Floor Harness to LH Rear Door Harness, LH "B" Pillar | | | |
| C306 (6 Cavities) (4-Door)..... | Floor Harness to RH Rear Door Harness, RH "B" Pillar | | | |
| C401 (12 Cavities) (4-Door)..... | Floor Harness to Rear Lamp Harness, behind LH Rear Wheelhousing..... | 10 | A | 202-12A1 |

| COMPONENT | LOCATION | 201-PG | FIG. | CONN |
|----------------------------------|---|----------|-------|------|
| C409 (4 Cavities) (4-Door) | Rear Lamp Harness to Rear Door Harness, behind RH Rear Wheelhousing | 10 | | A |
| C500 (10 Cavities) | In LH Front Door, right of Front Door Inside Handle | 202-13A1 | | |
| C600 (10 Cavities) | In RH Front Door, left of Front Door Inside Handle | 202-13A1 | | |
| G202 | Behind Center I/P on Bulkhead | | | |
| G400 | Inside Rear Door near License Plate Lamps (4-Door) | 13 | | A |
| P400 | Rear Door (4-Door) | 13 | | A |
| P401 | Rear of Vehicle, right of LH Frame Rail | 10 | | A |
| P402 | Rear of Vehicle, left of RH Frame Rail | 10 | | A |
| P500 (4-Door LSi) | LH Front Door | 11 | | A |
| P600 (4-Door LSi) | RH Front Door | 11 | | A |
| P700 (4-Door LSi) | LH Rear Door | 11 | | B |
| P800 (4-Door LSi) | RH Rear Door | 11 | | B |
| S266 | Main Harness, near C204 connector breakout | | | |
| S267 | Main Harness, near C203 connector breakout | | | |
| S268 | Main Harness, near C203 connector breakout | | | |
| S297 | Main Harness, near C205 | | | |
| S298 | Main Harness, at Blower Speed Selector Switch connector breakout | | | |
| S302 (4-Door) | In Floor Harness, near Heated Oxygen Sensor 2 (HO2S2) connector breakout | | | |
| S303 (4-Door) | In Floor Harness, near Heated Oxygen Sensor 2 (HO2S2) connector breakout | | | |
| S400 | Rear Door Harness, near License Plate Lamps | | | |
| S501 | LH Front Door Harness, near LH Front Power Window/Door Lock Switch | | | |
| S502 | LH Front Door Harness, near LH Front Power Window/Door Lock Switch | | | |
| S503 | LH Front Door Harness, near LH Front Power Window/Door Lock Switch | | | |

TROUBLESHOOTING HINTS

1. Check the DOOR LOCK Fuse with a fuse tester.
2. Check that G202 and G400 are clean and tight.
3. Check that all mechanical linkages in the doors are correctly assembled and free from obstructions.
4. Before component replacement, check for poor connections at related components and in-line harness connector terminal connections.

8A - 130 - 8 ELECTRICAL DIAGNOSIS

POWER DOOR LOCKS SYSTEM DIAGNOSIS

| TEST | RESULT | ACTION |
|--|--|--|
| 1. With all doors locked, insert door key into LH FRONT LOCK CYLINDER and turn key clockwise to the Unlock position. | All doors unlock. | GO to step 2. |
| | All doors do not unlock. | GO to step 20. |
| | 1, 2, 3 or 4 doors do not unlock. | GO to step 7. |
| 2. Turn key counterclockwise to the Lock position. | All doors lock. | GO to step 3. |
| | All doors do not lock. | GO to step 21. |
| | 1, 2, 3 or 4 doors do not lock. | GO to step 7. |
| 3. With all doors unlocked, insert the door key into the RH FRONT LOCK CYLINDER and turn key to the Lock position. | All doors lock. | GO to step 4. |
| | All doors do not lock. | GO to step 26. |
| 4. With all doors unlocked, insert the door key into the REAR DOOR LOCK CYLINDER and turn key to the Lock position. | All doors lock. | GO to step 5. |
| | All doors do not lock. | GO to step 28. |
| 5. Depress the LH FRONT POWER DOOR LOCK SWITCH to the Lock position. | All doors lock. | GO to step 6. |
| | All doors do not lock. | GO to step 30. |
| 6. Depress the LH FRONT POWER DOOR LOCK SWITCH to the Unlock position. | All doors unlock. | All systems diagnosed in this Section are functioning normally. |
| | All doors do not unlock. | GO to step 31. |
| 7. During the previous test, which of the POWER DOOR LOCK ACTUATORS were inoperative. | LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY inoperative. | GO to step 8. |
| | RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY inoperative. | GO to step 10. |
| | LH REAR POWER DOOR LOCK ACTUATOR inoperative. | GO to step 12. |
| | RH REAR POWER DOOR LOCK ACTUATOR inoperative. | GO to step 14. |
| | REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY inoperative. | GO to step 16. |
| | LH REAR, RH REAR AND REAR DOOR POWER DOOR LOCK ACTUATORS/ASSEMBLY inoperative. | GO to step 18. |
| | | |
| 8. Disconnect POWER DOOR LOCK CONTROL MODULE and LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 3 and the LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C2 cavity 3. Measure resistance. | Less than 0.5 ohms. | GO to step 9. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU/RED wire between POWER DOOR LOCK CONTROL MODULE and the LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |

| TEST | RESULT | ACTION |
|---|---------------------|--|
| 9. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 2 and the LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C2 cavity 2. Measure resistance. | Less than 0.5 ohms. | Replace LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU wire between POWER DOOR LOCK CONTROL MODULE and the LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 10. Disconnect POWER DOOR LOCK CONTROL MODULE and RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 3 and the RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C2 cavity 3. Measure resistance. | Less than 0.5 ohms. | GO to step 11. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU/RED wire between POWER DOOR LOCK CONTROL MODULE and the RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 11. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 2 and the RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C2 cavity 2. Measure resistance. | Less than 0.5 ohms. | Replace RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU wire between POWER DOOR LOCK CONTROL MODULE and the RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 12. Disconnect POWER DOOR LOCK CONTROL MODULE and LH REAR POWER DOOR LOCK ACTUATOR connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 3 and the LH REAR POWER DOOR LOCK ACTUATOR connector cavity 1. Measure resistance. | Less than 0.5 ohms. | GO to step 13. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU/RED wire between POWER DOOR LOCK CONTROL MODULE and the LH REAR POWER DOOR LOCK ACTUATOR Assembly. |
| 13. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 2 and the LH REAR POWER DOOR LOCK ACTUATOR connector cavity 2. Measure resistance. | Less than 0.5 ohms. | Replace LH REAR POWER DOOR LOCK ACTUATOR. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU wire between POWER DOOR LOCK CONTROL MODULE and the LH REAR POWER DOOR LOCK ACTUATOR. |
| 14. Disconnect POWER DOOR LOCK CONTROL MODULE and RH REAR POWER DOOR LOCK ACTUATOR connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 3 and the RH REAR POWER DOOR LOCK ACTUATOR connector cavity 1. Measure resistance. | Less than 0.5 ohms. | GO to step 15. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU/RED wire between POWER DOOR LOCK CONTROL MODULE and the RH REAR POWER DOOR LOCK ACTUATOR ASSEMBLY. |

8A - 130 - 10 ELECTRICAL DIAGNOSIS

POWER DOOR LOCKS

| TEST | RESULT | ACTION |
|---|---------------------|---|
| 15. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 2 and the RH REAR POWER DOOR LOCK ACTUATOR connector cavity 2. Measure resistance. | Less than 0.5 ohms. | Replace RH REAR POWER DOOR LOCK ACTUATOR. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU wire between POWER DOOR LOCK CONTROL MODULE and the RH REAR POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 16. Disconnect POWER DOOR LOCK CONTROL MODULE and REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 3 and the REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY connector cavity 1. Measure resistance. | Less than 0.5 ohms. | GO to step 17. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU/RED wire between POWER DOOR LOCK CONTROL MODULE and the REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 17. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 2 and the REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY connector cavity 2. Measure resistance. | Less than 0.5 ohms. | Replace the REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU wire between POWER DOOR LOCK CONTROL MODULE and the REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 18. Connect a digital multimeter between S267 and S303. Measure resistance. | Less than 0.5 ohms. | GO to step 19. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU/RED wire between S267 and S303. |
| 19. Connect a digital multimeter between S268 and S302. Measure resistance. | Less than 0.5 ohms. | Replace the LH REAR, RH REAR AND REAR DOOR POWER DOOR LOCK ACTUATORS/ASSEMBLY. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU wire between S268 and S302. |
| 20. Disconnect POWER DOOR LOCK CONTROL MODULE and LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 8 and the LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C1 cavity 1. Measure resistance. | Less than 0.5 ohms. | GO to step 22. |
| | More than 0.5 ohms. | Repair open or excessive resistance in PNK/BLK wire between POWER DOOR LOCK CONTROL MODULE and the LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |

| TEST | RESULT | ACTION |
|---|-------------------------------|--|
| 21. Disconnect POWER DOOR LOCK CONTROL MODULE and LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 9 and the LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C1 cavity 3. Measure resistance. | Less than 0.5 ohms. | GO to step 22. |
| | More than 0.5 ohms. | Repair open or excessive resistance in PNK wire between POWER DOOR LOCK CONTROL MODULE and the LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 22. Connect a digital multimeter from LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C1 cavity 2 to ground. Measure resistance. | Less than 0.5 ohms. | GO to step 23. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLK wire between LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY and G202. |
| 23. Momentarily connect a fused jumper wire from LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C1 cavities 1 and 3 to ground. | All doors unlock/lock. | Replace LH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| | All doors do not unlock/lock. | GO to step 24. |
| 24. Connect a digital multimeter from POWER DOOR LOCK CONTROL MODULE connector cavity 7 to ground. Measure voltage. | 10-14 volts. | GO to step 25. |
| | Less than 10 volts. | Repair open or excessive resistance in RED wire between POWER DOOR LOCK CONTROL MODULE and FUSE BLOCK 2. |
| 25. Connect a digital multimeter from POWER DOOR LOCK CONTROL MODULE connector cavity 1 to ground. Measure resistance. | Less than 0.5 ohms. | Replace POWER DOOR LOCK CONTROL MODULE. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLK wire between POWER DOOR LOCK CONTROL MODULE and G202. |
| 26. Disconnect POWER DOOR LOCK CONTROL MODULE and RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 9 and the RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C1 cavity 3. Measure resistance. | Less than 0.5 ohms. | GO to step 24. |
| | More than 0.5 ohms. | Repair open or excessive resistance in PNK wire between POWER DOOR LOCK CONTROL MODULE and the RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 27. Connect a digital multimeter from RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY connector C1 cavity 2 to ground. Measure resistance. | Less than 0.5 ohms. | Replace RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLK wire between RH FRONT POWER DOOR LOCK ACTUATOR ASSEMBLY and G202. |

8A - 130 - 12 ELECTRICAL DIAGNOSIS

POWER DOOR LOCKS

| TEST | RESULT | ACTION |
|--|---------------------|---|
| 28. Disconnect POWER DOOR LOCK CONTROL MODULE and REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 4 and the REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY connector cavity 3. Measure resistance. | Less than 0.5 ohms. | GO to step 29. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLU/BLK wire between POWER DOOR LOCK CONTROL MODULE and the REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| 29. Connect a digital multimeter from REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY connector cavity 5 to ground. Measure resistance. | Less than 0.5 ohms. | Replace REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLK wire between REAR DOOR POWER DOOR LOCK ACTUATOR ASSEMBLY and G400. |
| 30. Disconnect POWER DOOR LOCK CONTROL MODULE and LH FRONT POWER WINDOW/DOOR LOCK SWITCH connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 9 and the LH FRONT POWER WINDOW/DOOR LOCK SWITCH connector cavity 1. Measure resistance. | Less than 0.5 ohms. | GO to step 32. |
| | More than 0.5 ohms. | Repair open or excessive resistance in PNK wire between POWER DOOR LOCK CONTROL MODULE and the LH FRONT POWER WINDOW/DOOR LOCK SWITCH. |
| 31. Disconnect POWER DOOR LOCK CONTROL MODULE and LH FRONT POWER WINDOW/DOOR LOCK SWITCH connectors. Connect a digital multimeter between POWER DOOR LOCK CONTROL MODULE connector cavity 8 and the LH FRONT POWER WINDOW/DOOR LOCK SWITCH connector cavity 2. Measure resistance. | Less than 0.5 ohms. | GO to step 32. |
| | More than 0.5 ohms. | Repair open or excessive resistance in PNK/BLK wire between POWER DOOR LOCK CONTROL MODULE and the LH FRONT POWER WINDOW/DOOR LOCK SWITCH. |
| 32. Connect a digital multimeter from LH FRONT POWER WINDOW/DOOR LOCK SWITCH connector cavity 9 to ground. Measure resistance. | Less than 0.5 ohms. | Replace LH FRONT POWER WINDOW/DOOR LOCK SWITCH. |
| | More than 0.5 ohms. | Repair open or excessive resistance in BLK wire between LH FRONT POWER WINDOW/DOOR LOCK SWITCH and G202. |

COMPONENT REPLACEMENT INFORMATION

For component replacement procedures, refer to the section listed below.

| | |
|--|--------------|
| LH Front Power Door Lock Actuator Assembly | Section 10-6 |
| LH Rear Power Door Lock Actuator..... | Section 10-6 |
| LH Front Power Window/Door Lock Switch..... | Section 10-6 |
| RH Front Power Door Lock Actuator Assembly | Section 10-6 |
| RH Rear Power Door Lock Actuator..... | Section 10-6 |
| Rear Door Power Lock Actuator Assembly | Section 10-8 |

CIRCUIT OPERATION

Battery voltage is applied at all times through the Door Lock Fuse to the POWER DOOR LOCK CONTROL MODULE. The POWER DOOR LOCK CONTROL MODULE is permanently grounded at G202.

When either the LH FRONT LOCK CYLINDER or the POWER DOOR LOCK SWITCH is moved to the UNLOCK position, the POWER DOOR LOCK CONTROL MODULE receives a ground signal at the UNLOCK INPUT terminal. When this ground signal is received, the POWER DOOR LOCK CONTROL MODULE applies voltage to the Unlock output terminal and a ground to the Lock output terminal. With both power and ground provided to the POWER DOOR LOCK ACTUATORS, they turn the push/pull mechanical linkages in the doors to unlock the doors.

When the LH FRONT LOCK CYLINDER, RH FRONT LOCK CYLINDER, REAR DOOR LOCK CYLINDER, or the POWER DOOR LOCK SWITCH is moved to the LOCK position, the POWER DOOR LOCK CONTROL MODULE receives a ground signal at the LOCK INPUT terminal. When this ground signal is received, the POWER DOOR LOCK CONTROL MODULE applies voltage to the Lock output terminal and a ground to the unlock output terminal. With both power and ground provided to the POWER DOOR LOCK ACTUATORS, they turn the push/pull mechanical linkages in the doors to lock the doors.