

DOOR LOCKS - POWER & KEYLESS ENTRY SYSTEM

1994 Mitsubishi 3000GT

1994 ACCESSORIES & SAFETY EQUIPMENT

Chrysler Corp./Mitsubishi Keyless Entry & Power Door Locks

Dodge: Stealth

Mitsubishi: 3000GT

DESCRIPTION & OPERATION

On Stealth and 3000GT, power door locks are controlled by driver or front passenger switches which send signals to a Electronic Timer Alarm Control System (ETACS) module. The ETACS module sends appropriate signals to individual door lock actuators through individual relays.

The following features are incorporated in power door lock systems that have an ETACS module:

- * Once locked door is closed, system will unlock door if key remains in ignition switch.
- * Continuous switching between lock and unlock of door will disable system for approximately one minute.

Stealth offer optional keyless entry system. Use of a 2 button portable remote control operates door locks within a range of 33 ft. (10 m). Dome light flashes twice once doors are locked and illuminates for 3 seconds when doors are unlocked. If after 30 seconds, door(s) have not been opened when unlocked with keyless entry system, doors will relock.

TROUBLE SHOOTING

POWER DOOR LOCK INOPERATIVE

Operate door lock(s) with ignition switch in OFF position. If door lock(s) do not operate, check for following possible causes:

- * Burned fuse, circuit breaker or fusible link caused by short to body ground.
- * Wire connector or pin inside connector disengaged at any connector or component in system.
- * Defective ETACS module (if equipped).
- * Defective door lock switch, relay or actuator.
- * Subfreezing weather conditions, mechanical failure, or corroded or misaligned assemblies.

KEY REMINDER SYSTEM INOPERATIVE (ETACS CONTROLLED SYSTEM)

With key inserted in ignition switch, lock driver's or passenger's door and close door. If door locks do not unlock, check for following possible causes:

- * Defective key reminder switch or no input signal to ETACS module.
- * Defective front door switch or no input signal to ETACS module.
- * Defective vehicle speed sensor or no input signal to ETACS module.

TESTING

NOTE: If after all testing procedures are completed, system is not functioning properly, substitute ETACS module with known good unit and retest. See ETACS MODULE LOCATION table.

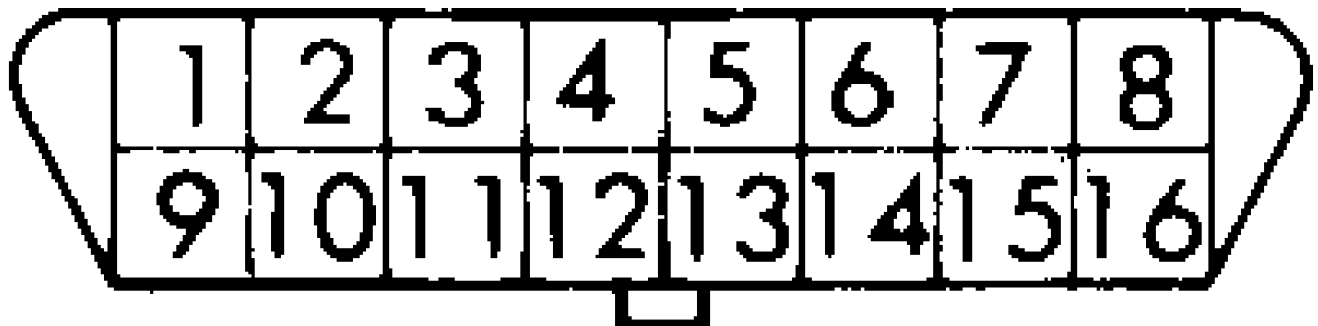
ETACS MODULE LOCATION TABLE

Application	Location
Stealth & 3000GT	Behind Lower Dash, Left Side Of Steering Column

INPUT SIGNAL

1) Access data link connector at lower left corner of dash. Connect positive lead of voltmeter to terminal No. 9 and negative lead to terminal No. 12. See Fig. 1. Check if input signals from system components are being received by ETACS module.

2) Voltmeter needle should sweep when each switch is operated (i.e., headlight switch or pop-up switch). If switch or related component is not functioning, voltmeter will not operate when switch is activated. Check related circuit and/or component.



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Fig. 1: Identifying Data Link Connector Terminals
Courtesy of Mitsubishi Motor Sales of America.

DOOR LOCK ACTUATOR

1) Access left front or right rear door lock actuator. See DOOR LOCK ACTUATOR R & I under REMOVAL & INSTALLATION. Disconnect harness connector. Set actuator to LOCK position. Connect positive lead of the 12-volt power source to terminal No. 1 of actuator. See Fig. 2. Actuator should operate to UNLOCK position when terminal No. 3 is connected to negative lead.

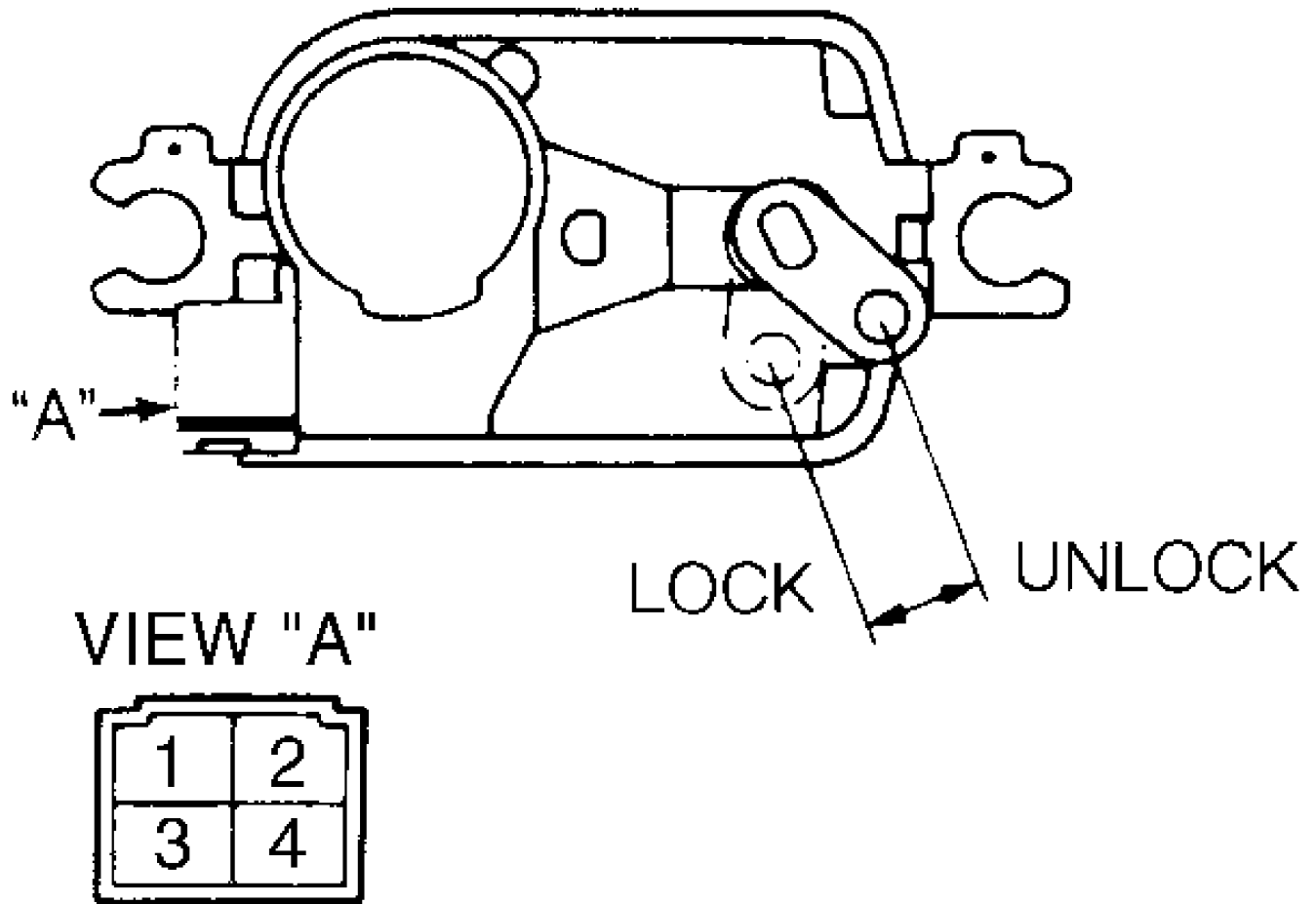
2) With actuator set to UNLOCK position, connect positive lead of the 12-volt power source to terminal No. 3 of actuator. See Fig. 2. Actuator should operate to LOCK position when terminal No. 1 is connected to negative lead.

3) Access right front or left rear door lock actuator. See DOOR LOCK ACTUATOR R & I under REMOVAL & INSTALLATION. Disconnect harness connector. Set actuator to LOCK position. Connect positive lead of the 12-volt power source to terminal No. 3 of actuator. See Fig. 2. Actuator should operate to UNLOCK position when terminal No. 1 is connected to negative lead.

4) With actuator set to UNLOCK position, connect positive lead of the 12-volt power source to terminal No. 1 of actuator. See

Fig. 2. Actuator should operate to LOCK position when terminal No. 3 is connected to negative lead.

5) On left or right door lock actuator, there should be continuity between terminals No. 2 and 4 when actuator is in UNLOCK position. There should be no continuity in LOCK position. Replace actuator if it fails any preceding tests.



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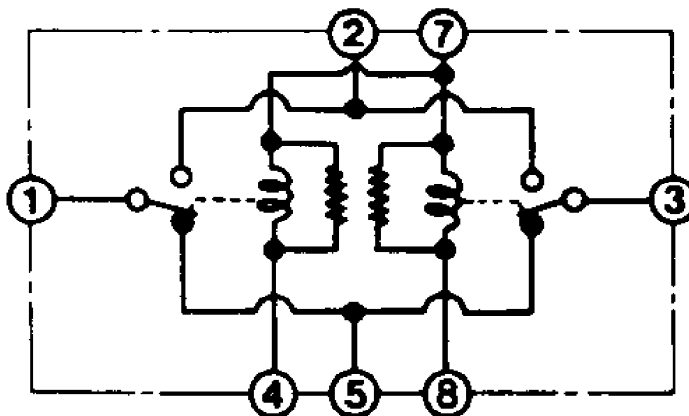
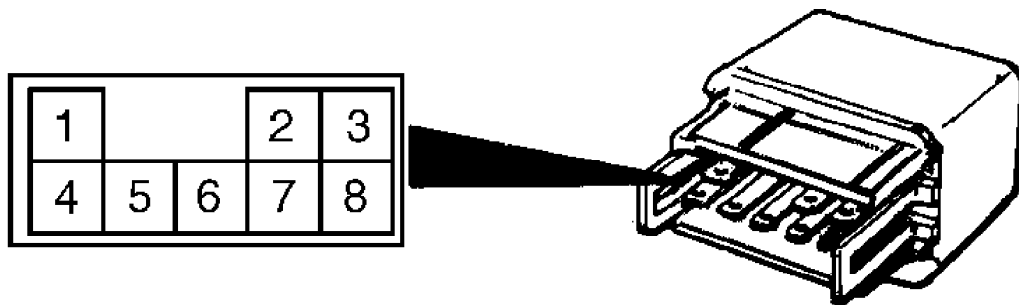
EXCEPT PICKUP

Fig. 2: Identifying Actuator Connectors
Courtesy of Mitsubishi Motor Sales of America.

DOOR LOCK POWER RELAY

NOTE: Following testing applies to door lock power relay "2" for keyless entry systems (if equipped).

Check continuity of relay using following chart. See Fig. 3. Replace relay as needed. For relay location, see Fig. 4 & Fig. 5.



Terminal		1	2	3	4	5	7	8
Battery voltage								
Continuity no voltage		○		○	○	○	○	○
Continuity with voltage		○	○		⊖	⊕		
			○	○			⊕	⊖

NOTE

- (1) ○—○ indicates that there is continuity between the terminals.
- (2) ⊕---⊖ indicates terminals to which battery voltage is applied.

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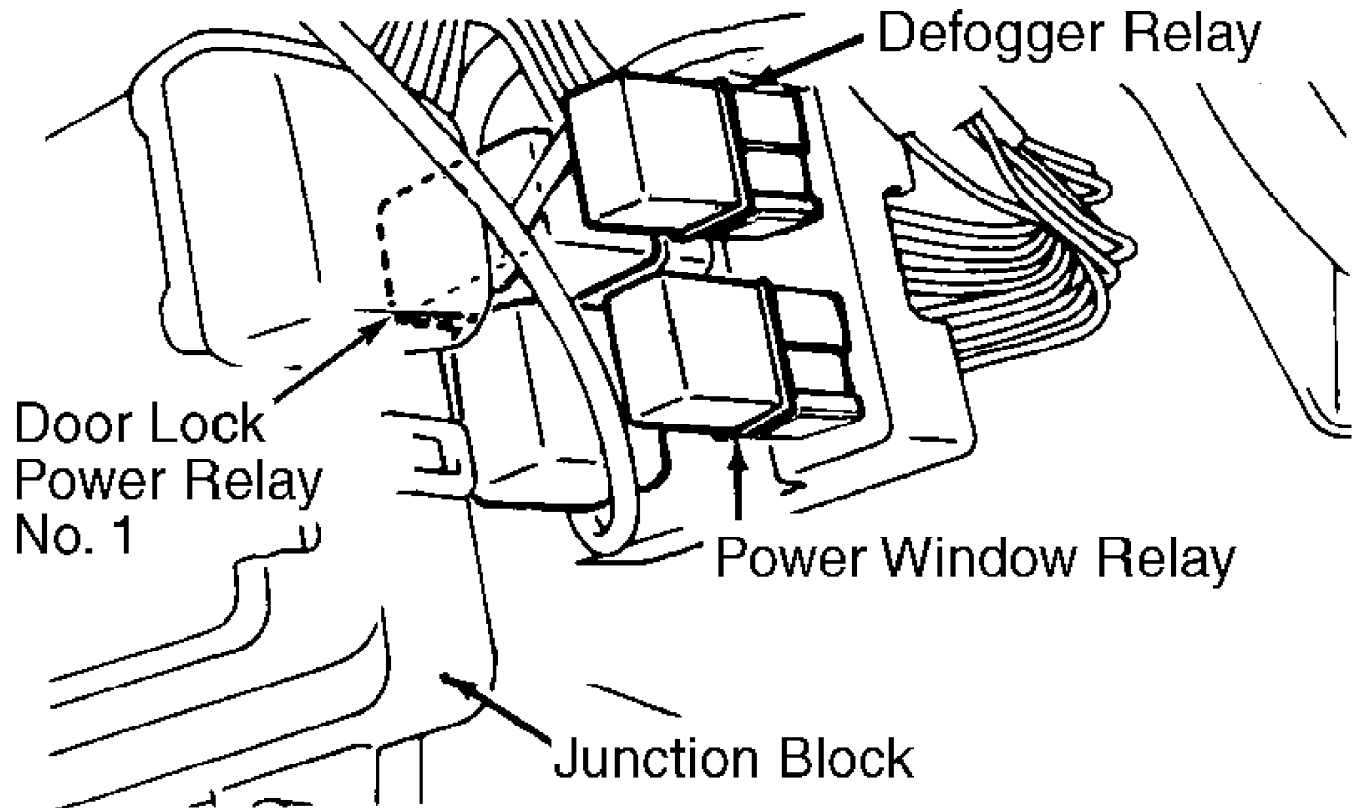
Fig. 3: Testing Door Lock Power Relay
Courtesy of Mitsubishi Motor Sales of America.

KEYLESS CONTROL UNIT

NOTE: Manufacturer does not provide testing information for keyless

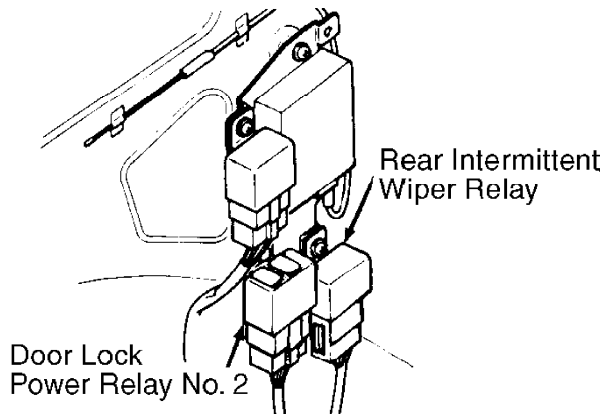
control unit on Stealth and 300GT

NOTE: If after all testing procedures are completed, system is not functioning properly, substitute keyless control unit with known good unit and retest.



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Fig. 4: Locating Door Lock Relays (Stealth & 3000GT)
Courtesy of Mitsubishi Motor Sales of America.



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Fig. 5: Locating Door Lock Relays (Stealth & 3000GT)
Courtesy of Mitsubishi Motor Sales of America.

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.

DOOR LOCK ACTUATOR R & I

Except Rear Door Or Hatch

Remove inner door panel. Remove delta cover (access to mirror mounting). Remove door light, switch panel and armrest. Remove mounting screws, and slide panel up to remove. Remove waterproof film. Remove actuator. To install, reverse removal procedure.

Rear Door Or Hatch

Remove door pull handle. Remove window trim. Remove door release handle trim. Remove tool kit (if equipped). Remove door panel and waterproof film. Remove actuator solenoid. To install, reverse removal procedure.

WIRING DIAGRAMS

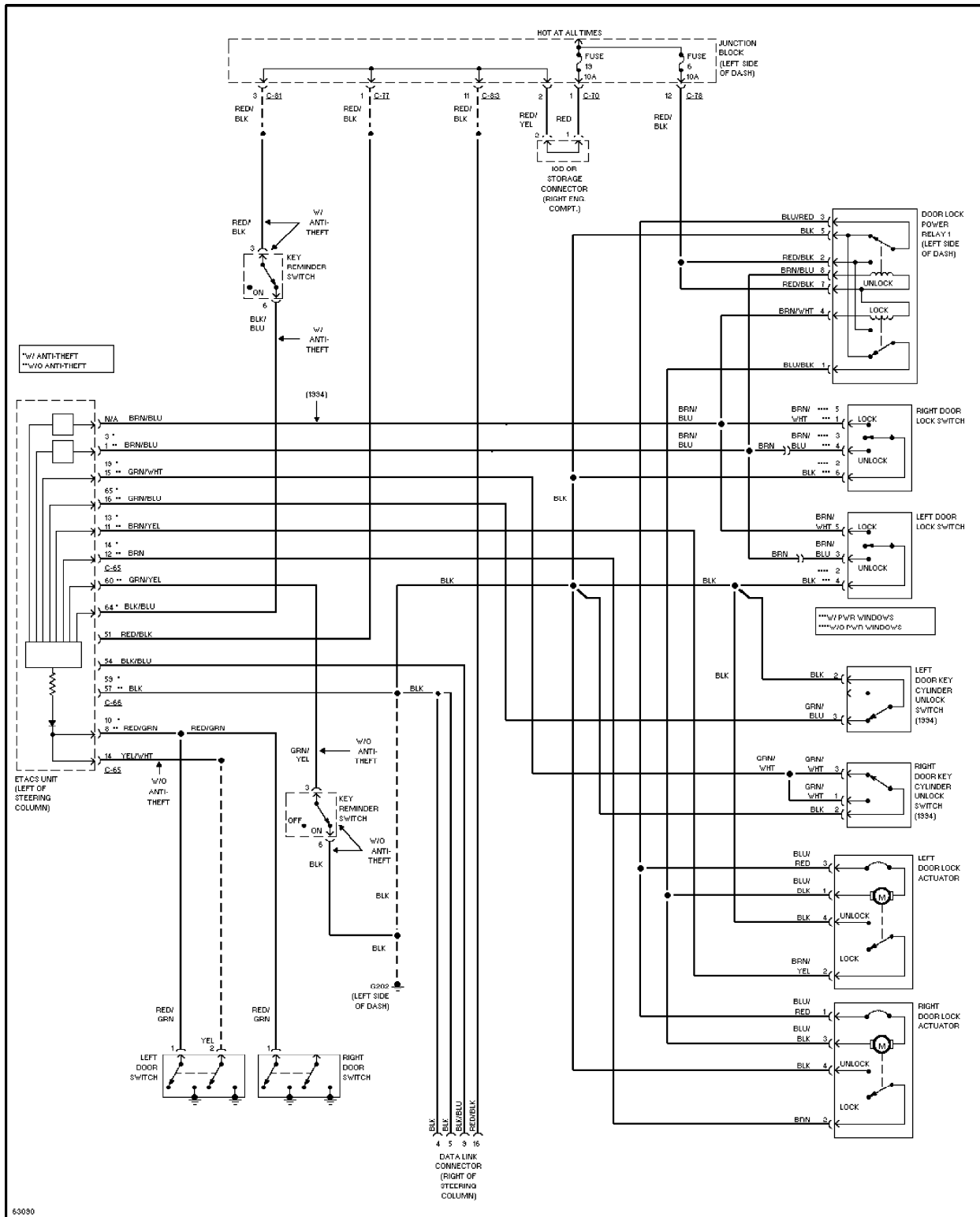


Fig. 6: Power Door Lock Schematic (Without Keyless Entry)

