

HEADLIGHTS - AUTOMATIC SHUTOFF

1994 Mitsubishi 3000GT

1994 ACCESSORIES & SAFETY EQUIPMENT

Chrysler Corp./Mitsubishi Headlights - Automatic Shutoff

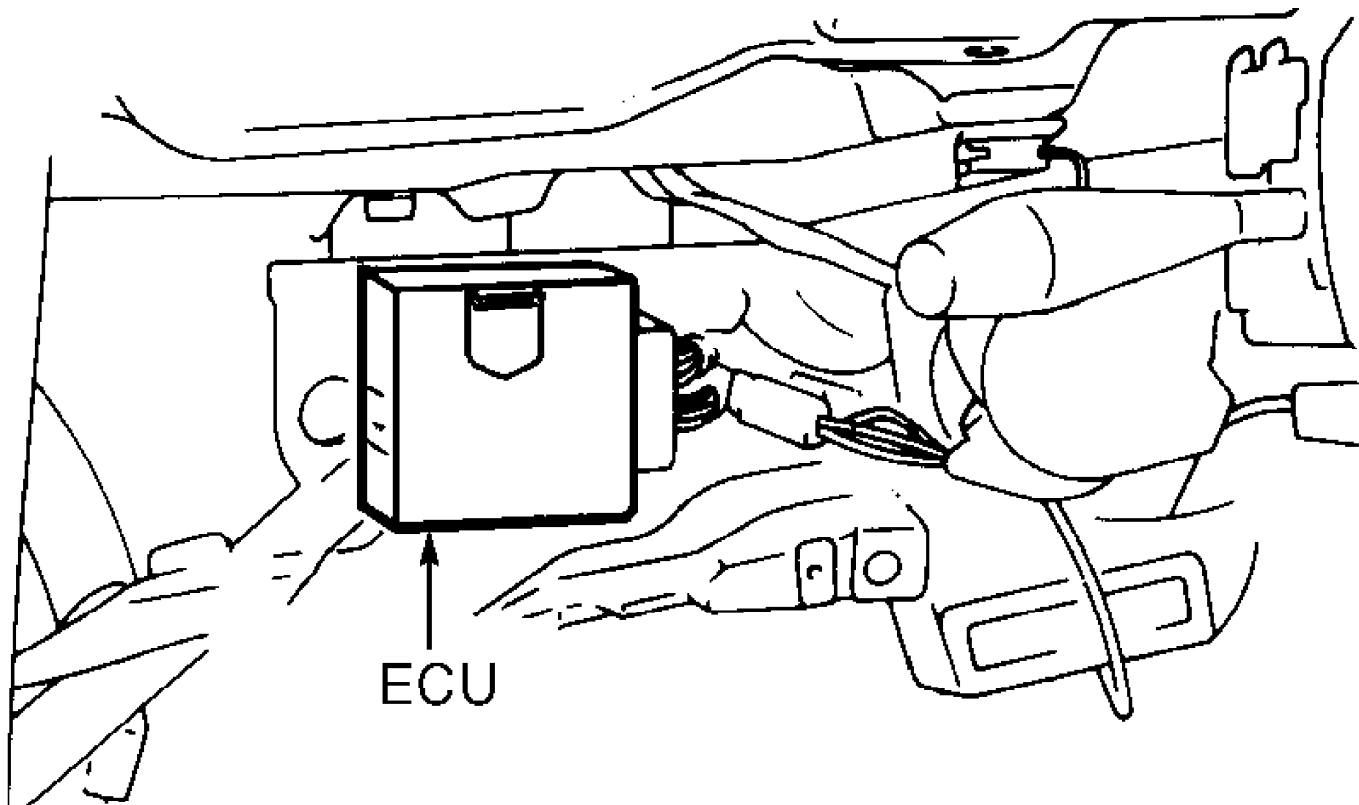
Dodge; Stealth

Mitsubishi; 3000GT

DESCRIPTION & OPERATION

Headlight system features an automatic shutoff system. With headlights on, system will turn all lights off when driver's door is opened with ignition in OFF position. Also lights will turn off when ignition is turned off when driver's door is already open.

Headlight system is controlled by Electronic Timer Alarm Control System (ETACS). On Stealth and 3000GT, ECU is located behind driver's lower dash panel, to left side of the steering column. See Fig. 1. Current flows from fuse No. 6 to headlight switch, headlight relay, ECU and automatic light shutoff unit.



93J83161

Fig. 1: Locating ECU

Courtesy of Mitsubishi Motor Sales of America.

TROUBLE SHOOTING

HEADLIGHTS DO NOT TURN OFF AUTOMATICALLY

Close driver's door. Turn ignition switch to ON position. Turn on headlights. Turn ignition switch to OFF position. Open

driver's door. If headlights do not turn off, check for following possible causes:

- * Wire connector or pin inside connector disengaged at any connector or component in system.
- * Open or short circuit in wiring harness.
- * Defective automatic light shutoff unit.
- * Defective ECU.

TESTING

* PLEASE READ THIS FIRST *

NOTE: If system is not functioning properly after testing procedures are completed, substitute known-good ECU and retest.

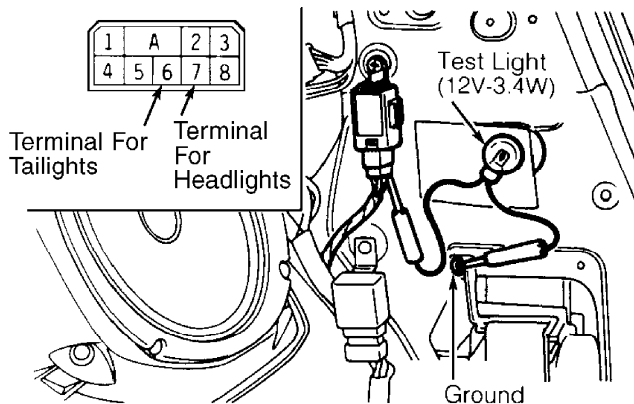
HEADLIGHT AUTOMATIC SHUTOFF UNIT

1) To access headlight automatic shutoff unit, remove passenger rear quarter trim. Using 12-volt test light, backprobe connector terminal No. 7. See Fig. 2.

2) Test light should illuminate during following circumstances:

- * Headlight and ignition switch are both in OFF position.
- * Headlight switch in TAIL or HEAD position and ignition switch is in ACC or ON position.
- * Headlight switch in TAIL or HEAD position. Ignition switch is turned to OFF position and driver's door is opened.
- * Headlight switch in TAIL or HEAD position. Driver's door is open. Ignition switch is turned to OFF position.
- * Headlight switch in TAIL or HEAD position. Driver's door is open. Ignition switch is turned to ON position.

3) Ensure headlight switch is in TAIL or HEAD position. Turn ignition switch to OFF position and open driver's door. Turn headlight switch from TAIL or HEAD position to OFF position and then back to TAIL or HEAD position. After following this procedure, test light should not be illuminated.

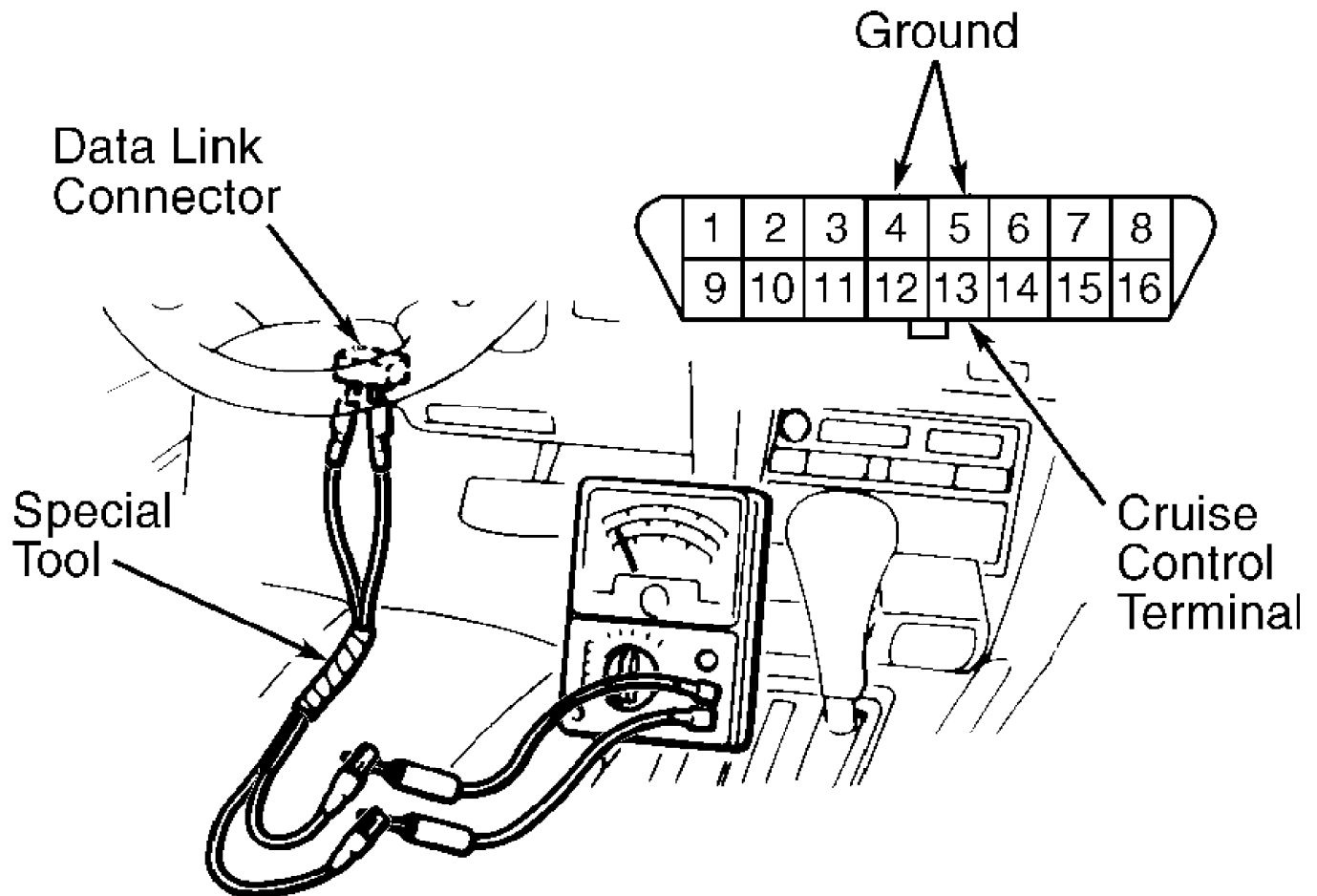


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Fig. 2: Testing Headlight Automatic Shutoff Unit
Courtesy of Mitsubishi Motor Sales of America.

INPUT SIGNAL

1) Access Data Link Connector (DLC). DLC is located behind lower dash panel to right of steering column on Stealth and 3000GT. Using Special Tool (MB991529), connect positive lead of the voltmeter to terminal No. 9 and negative lead to terminal No. 4 or No. 5. See Fig. 3. Check if input signals from system components are being received by ECU.

2) Voltmeter needle should sweep when each switch is operated (i.e. headlight switch, ignition switch or door switch). If switch or related component is not functioning, voltmeter will not operate when switch is activated. Check related circuit and/or component. Replace appropriate component or repair circuit as necessary.



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Fig. 3: Identifying Data Link Connector Terminals
Courtesy of Mitsubishi Motor Sales of America.

REMOVAL & INSTALLATION

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. Obtain radio anti-theft protection code from owner prior to servicing vehicle.

Manufacturers do not provide a step by step procedure for removing and installing headlight automatic shutoff system components.

WIRING DIAGRAMS

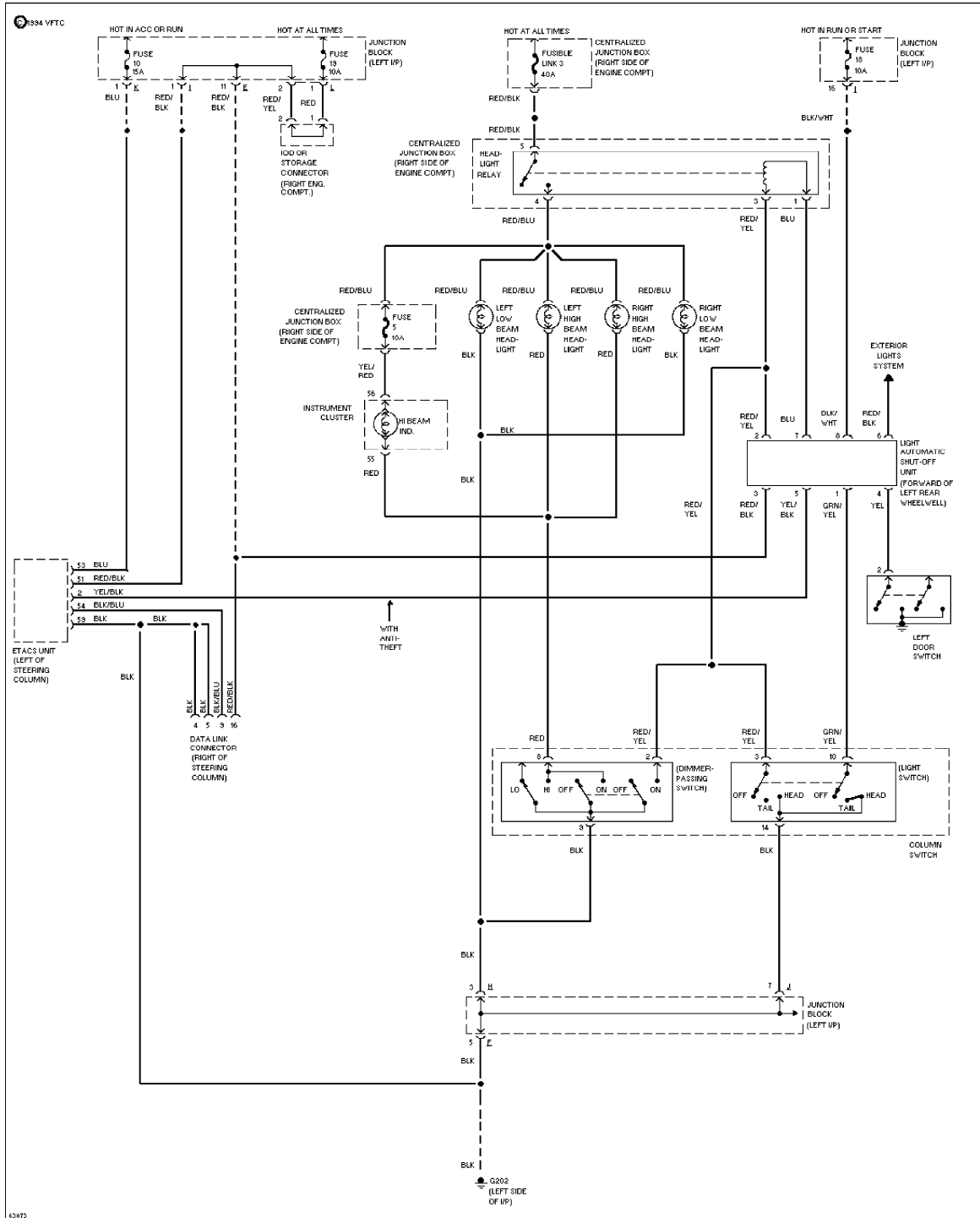


Fig. 4: Headlight Automatic Shutoff System Wiring Diagram