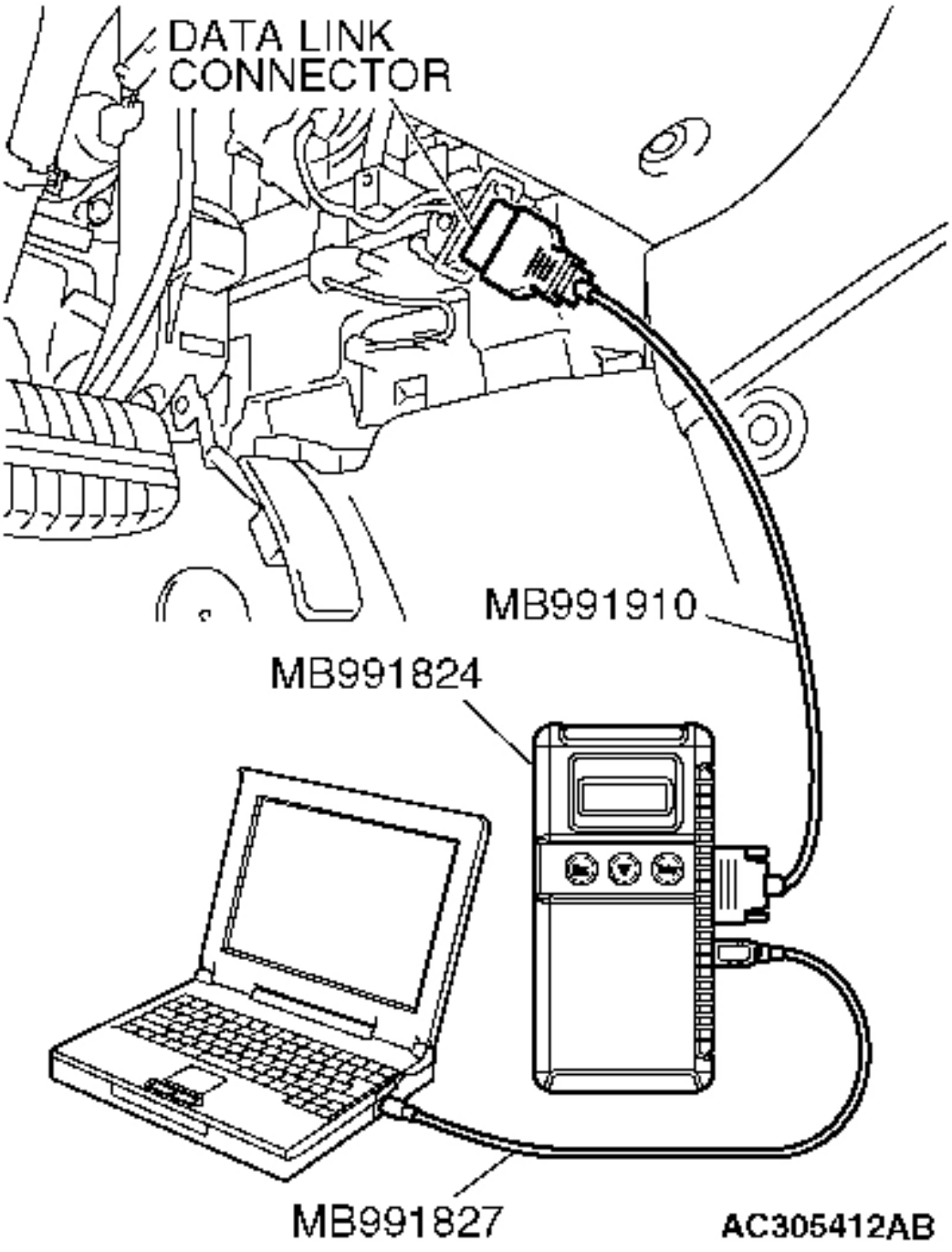


Fig. 627: Connecting Scan Tool To Data Link Connector
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

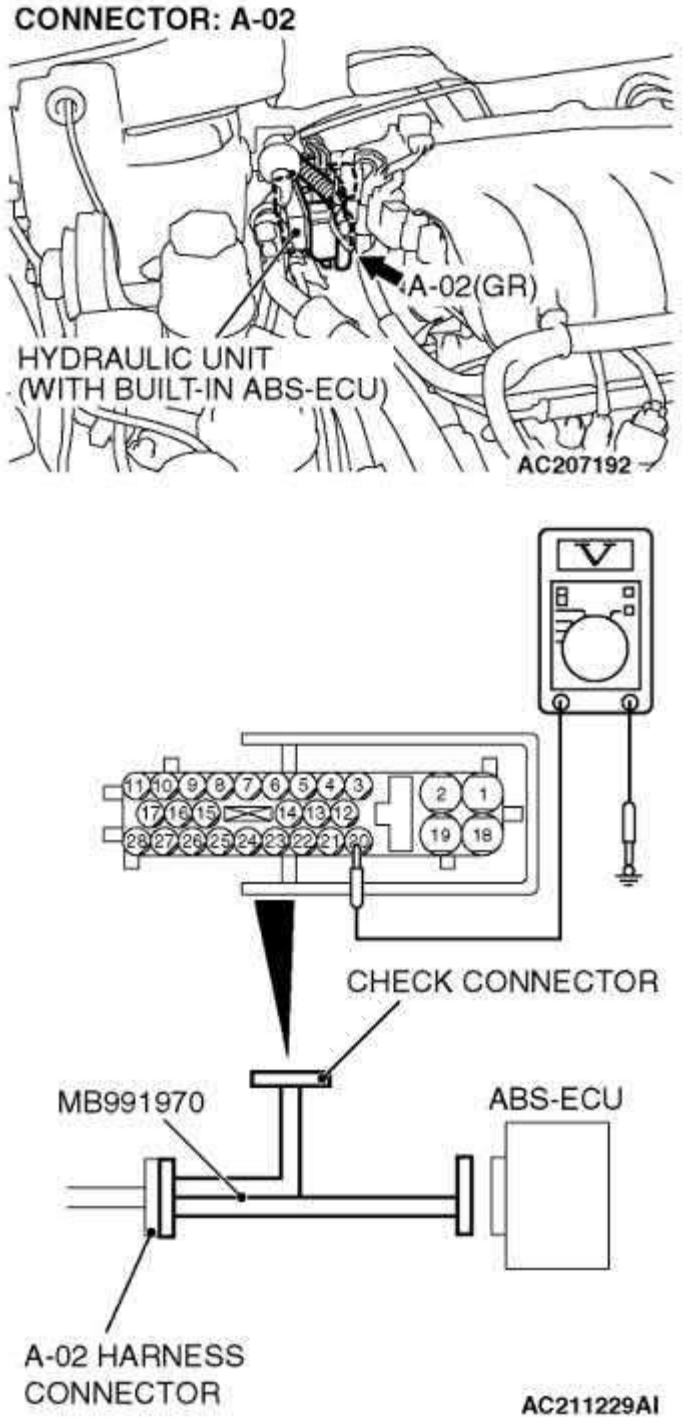


Fig. 120: Measuring Voltage Between Terminal 20 And Ground
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

specified, replace front seat belt buckle. Go to step 6 .

4. Reconnect seat belt buckle connector D-39. Disconnect SRS ECU connector C-25. See **SRS ELECTRONIC CONTROL UNIT (SRS ECU)** under REMOVAL & INSTALLATION. Measure resistance between SRS ECU connector C-25, terminal No. 51 (Brown/Red wire) and No. 65 (Orange/Black wire). See **Fig. 33** . If resistance is 738-902 ohms, reconnect SRS components. Erase, then retrieve DTCs. If DTC B1521 is retrieved, replace SRS ECU. Go to step 6 . If DTC B1521 is not retrieved, go to next step.
5. Inspect wire harness between SRS ECU connector C-25 and passenger seat belt buckle connector D-29 for damage. If wires are okay, go to next step. If wires are not okay, replace wire harness. Go to next step.
6. Erase, then retrieve DTCs. If DTC B1521 is retrieved, go to step 1 . If DTC B1521 is not retrieved, system is normal at this time.

DTC B1522: SEAT BELT SWITCH (RH) GROUND-SIDE CIRCUIT SHORTED FOR N/C TERMINAL

1. Connect scan tool to Data Link Connector (DLC). See **INITIAL SRS DIAGNOSTIC PROCEDURE** under DIAGNOSTICS. If scan tool is able to diagnose CAN bus lines and CAN bus lines are satisfactory, go to next step. If scan tool cannot diagnose CAN bus lines, repair CAN bus lines. Go to next step.
2. Erase, then retrieve DTCs. Turn ignition off. If DTC B1522 is retrieved, go to next step. If DTC B1522 is not retrieved, an intermittent condition may exist.
3. Disconnect negative battery cable. Disconnect passenger-side seat belt buckle connector D-39. See **Fig. 30** . Latch seat belt into seat belt buckle. Measure resistance between connector D-39, terminals No. 1 and 3. See **Fig. 43** . Resistance should be 800-840 ohms. Resistance between ground and terminal No. 1 and 3 should be infinite. Unlatch seat belt buckle. Measure resistance between terminal No. 2 and 3 of connector D-39. Resistance should be 800-840 ohms. Resistance between ground and terminal No. 2 and 3 should be infinite. If resistance is as specified, go to next step. If resistance is not as specified, replace front seat belt buckle. Go to step 6 .
4. Reconnect seat belt buckle connector D-39. Disconnect SRS ECU connector C-25. See **SRS ELECTRONIC CONTROL UNIT (SRS ECU)** under

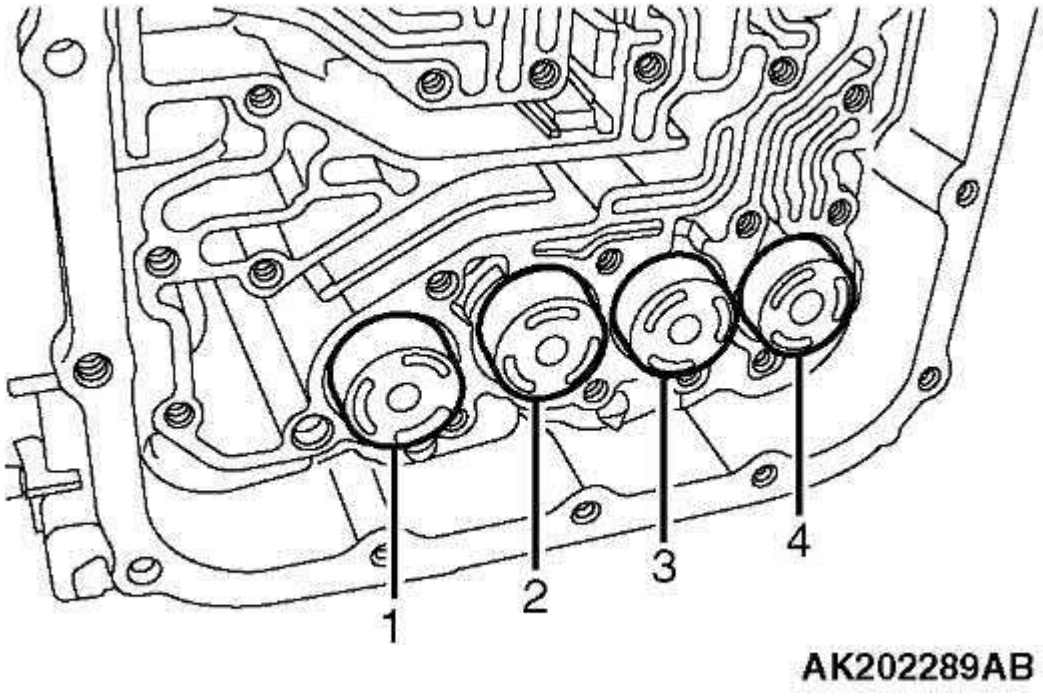


Fig. 113: Identifying Accumulator Spring Location
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

79. Install the strainer and second brake retainer oil seal.

HOW TO READ AND ERASE DIAGNOSTIC TROUBLE CODES

Required Special Tools:

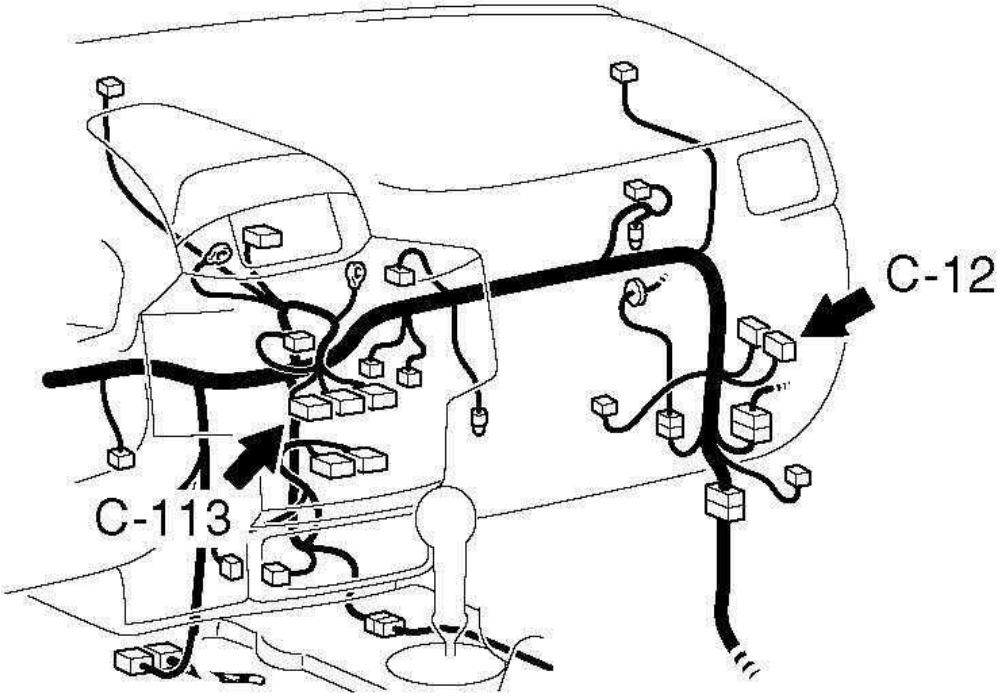
- MB991958: Scan Tool (M.U.T.-III Sub Assembly)
  - MB991824: Vehicle Communication Interface (V.C.I).
  - MB991827: M.U.T.-III USB Cable
  - MB991910: M.U.T.-III Main Harness A (Vehicles with CAN communication system)

CAUTION: To prevent damage to scan tool MB991958, always turn the ignition switch to the "LOCK" (OFF) position before connecting or disconnecting scan tool MB991958.

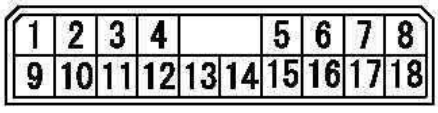
NOTE: If the battery voltage is low, diagnostic trouble codes will not be set. Check the battery if scan tool MB991958 does not display.

1. Connect scan tool MB991958 to the data link connector.
2. Turn the ignition switch to "ON" position.
3. Select "Interactive Diagnosis" from the start-up screen.
4. Select "System select."
5. Choose "Meter" from the "BODY" tab.
6. Select "Diagnostic Trouble Code."
7. If a DTC is set, it is shown.
8. Choose "Erase DTCs" to erase the DTC.

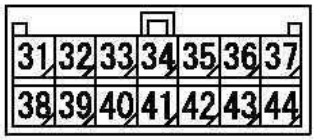
CONNECTORS: C-12, C-113



C-11



C-113



AC207132 AT

Fig. 25: Connecting Special Tool MB991923 Between PCM And Body-Side Harness Connector
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

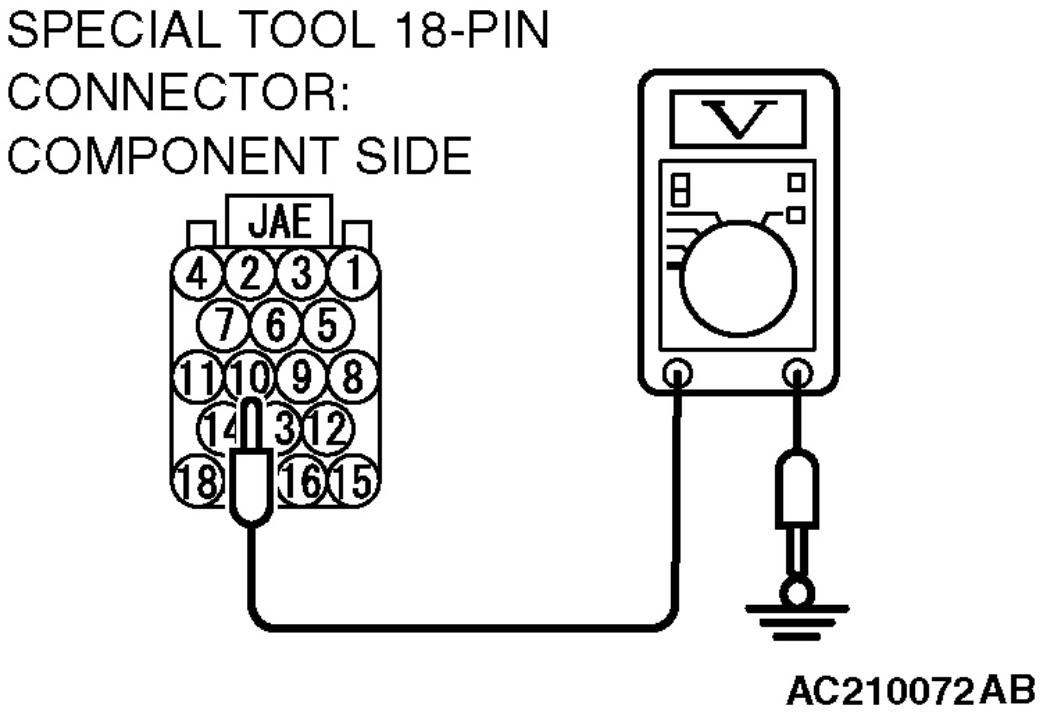


Fig. 26: Measuring Voltage Between Terminal Number 10 And Ground
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

STEP 4. Check fan control module connector A23 and PCM connector B-18 for loose, corroded or damaged terminals, or terminals pushed back in the connector.

Q: Are the connectors in good condition?

YES : Go to Step 5.

NO : Repair or replace the damaged components. Refer to **HARNESS CONNECTOR INSPECTION** .

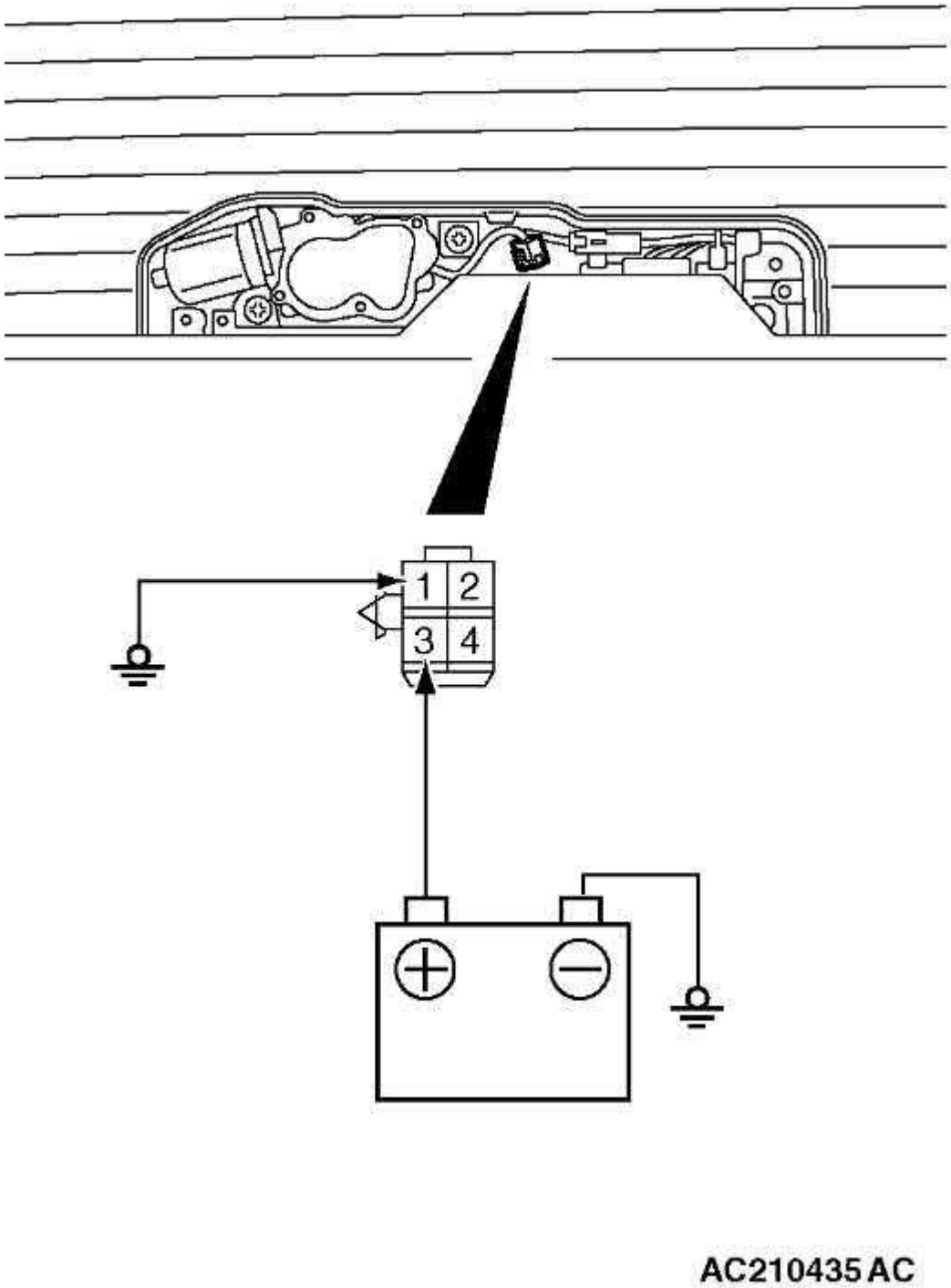


Fig. 34: Testing Rear Wiper Motor
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

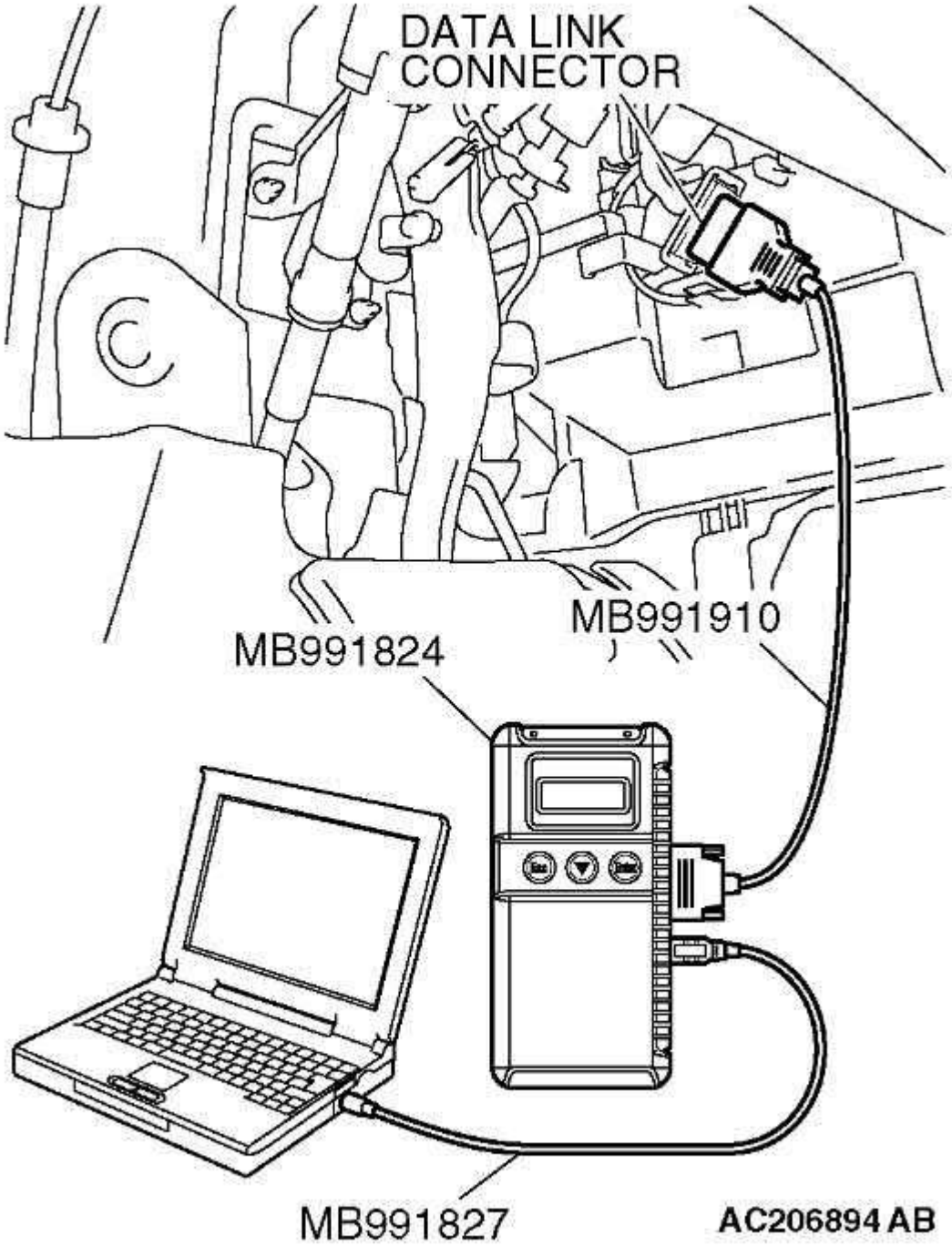


Fig. 82: Connecting Scan Tool To Data Link Connector
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

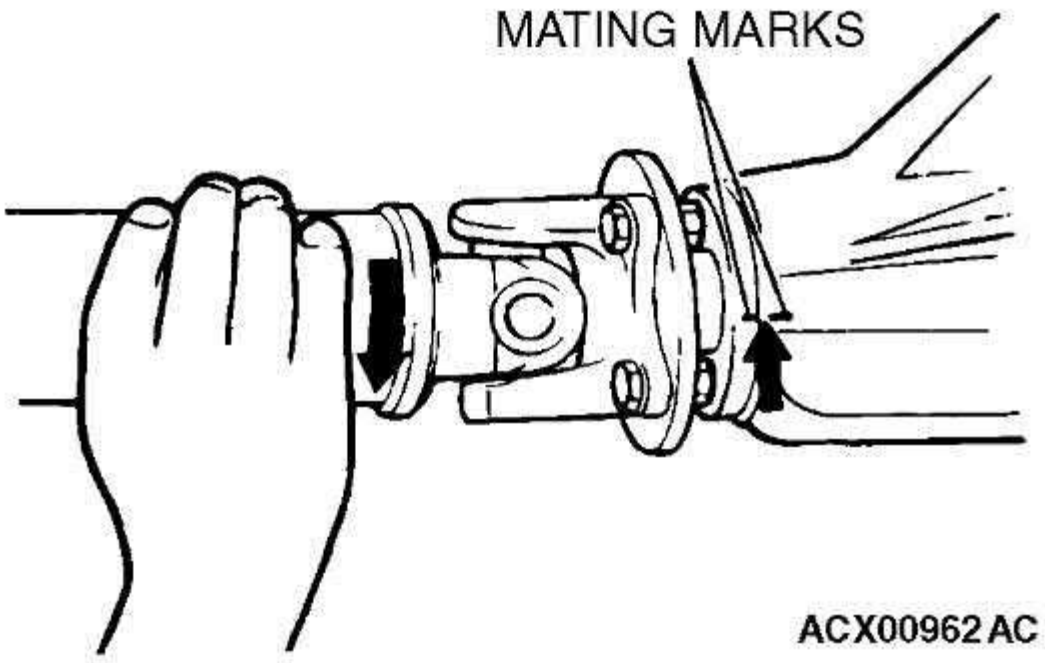


Fig. 7: Identifying Mating Marks On Dust Cover Of Companion Flange
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

4. Turn the propeller shaft counterclockwise as far as it will go, and measure the amount of distance between the mating marks.

   Limit: 5 mm (0.2 inch)

5. If the backlash exceeds the limit value, remove the differential carrier assembly and check the following.
   - Final drive gear backlash (Refer to **FINAL DRIVE GEAR TOOTH CONTACT**).
   - Differential gear backlash (Refer to **FINAL DRIVE GEAR TOOTH CONTACT**).

Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

CONNECTOR TERMINAL REFERENCE

CONNECTOR TERMINAL NO	SIGNAL	CHECKING REQUIREMENT		NORMAL CONDITION
15	TCL switch	Ignition switch: "ON"	When the TCL switch is not pressed.	Battery positive voltage
			When the TCL switch is pressed.	1 V or less
32	TCL/ASC-ECU power supply	Ignition switch: "ON"		Battery positive voltage
		Ignition switch: "LOCK" (OFF)		1 V or less

RESISTANCE AND CONTINUITY BETWEEN HARNESS-SIDE CONNECTOR TERMINALS

Required Special Tools:

MB991952: ABS Check Harness

MB991223: Harness Set

MB992006: Extra Fine Probe

1. Disconnect the TCL/ASC-ECU connector A-32 and connect special tool MB991952 to the A-32 body-side harness connector. Then turn the ignition switch to the "LOCK" (OFF) position and checking resistance and continuity.
2. Check the resistance and continuity between the terminals indicated in the table below.

B1507 is not retrieved, replace seat slide sensor. Go to step 5 .

4. Disconnect SRS ECU connector C-40. See **SRS ELECTRONIC CONTROL UNIT (SRS ECU)** under REMOVAL & INSTALLATION. See **Fig. 30** . Remove load resistor and load resistor adapter from connector D-37. Measure resistance between ground and SRS ECU connector C-40, terminal No. 2 (Brown wire). See **Fig. 33** . Measure resistance between ground and SRS ECU connector C-40, terminal No. 1 (Brown/White wire). If resistance is infinite at both terminals, reconnect SRS components. Erase, then retrieve DTCs. If DTC B1507 is retrieved, replace SRS ECU. If resistance is not infinite at both terminals, replace wire harness between SRS ECU and seat slide sensor. Go to next step.
5. Erase, then retrieve DTCs. If DTC B1507 is retrieved, go to step 1 . If DTC B1507 is not retrieved, system is normal at this time.

DTC B1508: SEAT SLIDE SENSOR CIRCUIT SHORT TO VOLTAGE

1. Connect scan tool to Data Link Connector (DLC). See **INITIAL SRS DIAGNOSTIC PROCEDURE** under DIAGNOSTICS. If scan tool is able to diagnose CAN bus lines and CAN bus lines are satisfactory, go to next step. If scan tool cannot diagnose CAN bus lines, repair CAN bus lines. Go to next step.
2. Erase, then retrieve DTCs. Turn ignition off. If DTC B1508 is retrieved, go to next step. If DTC B1508 is not retrieved, an intermittent condition may exist.
3. Disconnect negative battery cable. Disconnect seat slide sensor connector D-37, located under passenger-side front seat. See **SEAT SLIDE SENSOR** under REMOVAL & INSTALLATION. Connect Load Resistor (MB991865) to Load Resistor Adapter (MB991866). Insert load resistor adapter leads into harness-side terminals No. 1 (Brown wire) and No. 2 (Brown/White wire) of connector D-37. See **Fig. 42** . Connect negative battery cable. Using scan tool, erase, then retrieve DTCs. If DTC B1508 is retrieved, go to next step. If DTC B1508 is not retrieved, replace seat slide sensor. Go to step 5 .
4. Disconnect SRS ECU connector C-40. See **SRS ELECTRONIC CONTROL UNIT (SRS ECU)** under REMOVAL & INSTALLATION. See **Fig. 30** . Remove load resistor and load resistor adapter from connector D-37. Measure voltage between ground and SRS ECU connector C-40, terminal No. 2 (Brown

2004 DRIVELINE/AXLE

Propeller Shaft - Endeavor

GENERAL DESCRIPTION

For AWD vehicles, 3 way split 4-joint type propeller shaft with center bearing is adopted, and it has the following features.

- The DOJ, which is of less sliding resistance, is used for the No.3 joint. This reduces the idling vibration.
- A insulator is located at the center bearing to vehicle body joint, reducing vibration.

NOTE: DOJ: Double Offset Joint

CONSTRUCTION DIAGRAM

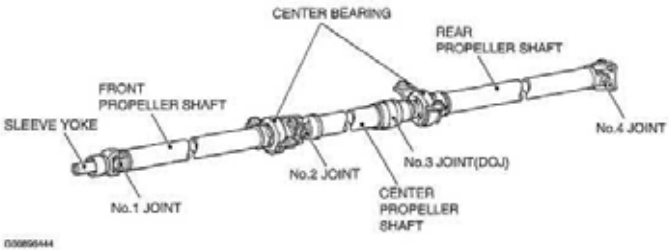


Fig. 1: Identifying Construction Diagram Of Propeller Shaft
Courtesy of MITSUBISHI MOTOR SALES OF AMERICA.

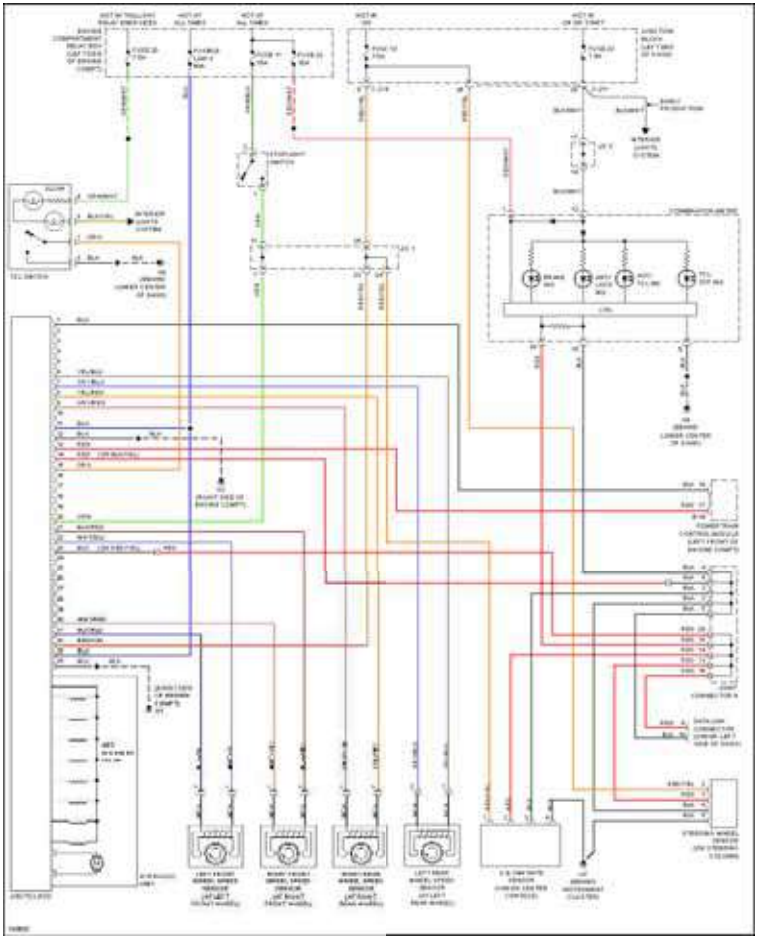
PROPELLER SHAFT DIAGNOSIS

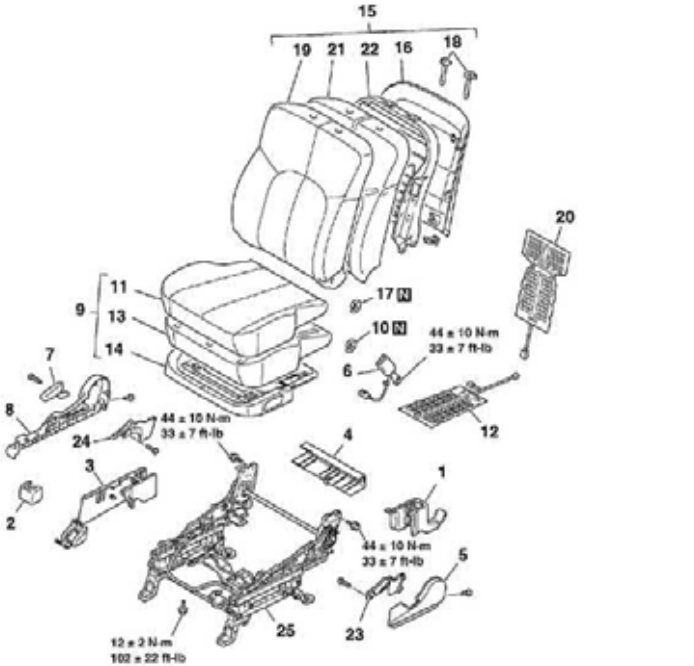
INTRODUCTION TO PROPELLER SHAFT DIAGNOSIS

If an abnormal noise is heard from the propeller shaft while driving, some parts of the propeller shaft may be worn or damaged, or some mounting bolts may be loose.

2004 Mitsubishi Endeavor LS

2004 SYSTEM WIRING DIAGRAMS Mitsubishi - Endeavor





DISASSEMBLY STEPS

1. SLIDE ADJUSTER SIDE COVER INNER
2. SLIDE ADJUSTER CAP
3. SLIDE ADJUSTER SIDE COVER
- SIDE-AIR BAG HARNESS CONNECTOR <VEHICLES WITH SIDE-AIR BAG>
8. SIDE SHIELD COVER
9. SEAT CUSHION ASSEMBLY <<A>>
10. SEAT COVER RING
11. SEAT CUSHION COVER
12. SEAT CUSHION HEATER <VEHICLES WITH HEATED SEAT>
13. SEAT CUSHION PAD

DISASSEMBLY STEPS

4. CENTER COVER <VEHICLES WITH ADVANCED AIR BAG>
5. HINGE COVER
6. INNER SEAT BELT
7. RECLINING ADJUSTER LEVER
14. SEAT CUSHION FRAME
15. SEATBACK ASSEMBLY
16. SEATBACK PANEL
17. SEAT COVER RING
18. HEADREST GUIDE
19. SEATBACK COVER
20. SEATBACK HEATER <VEHICLES WITH HEATED SEAT>
21. SEATBACK PAD
22. SEATBACK FRAME
23. HINGE COVER INNER
24. SIDE SHIELD COVER INNER
25. SEAT ADJUSTER