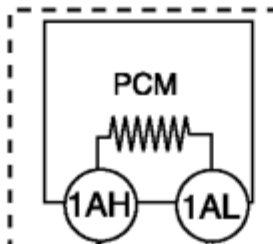
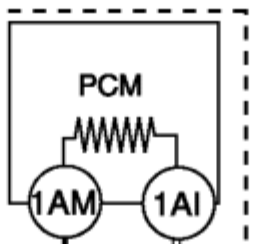
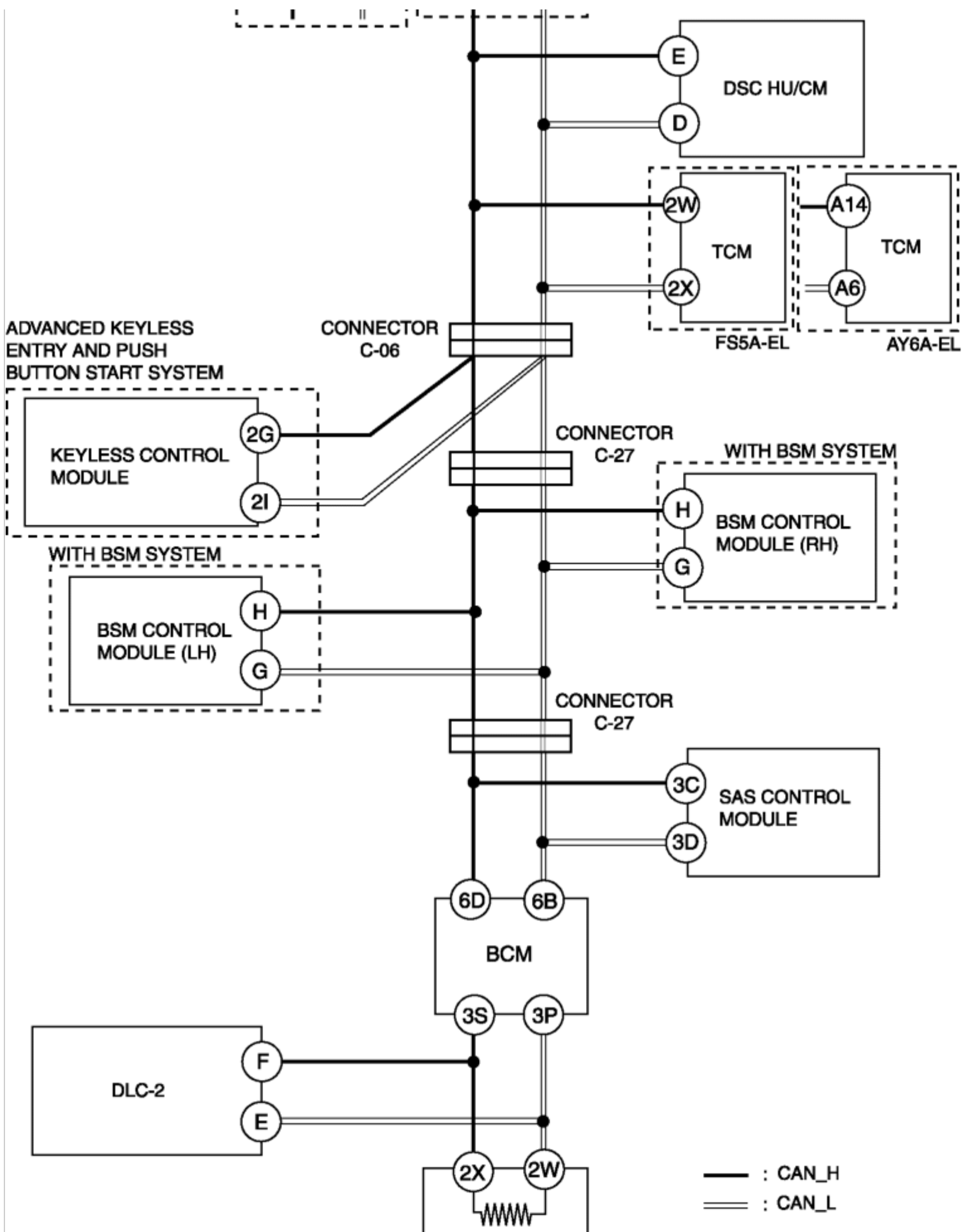


2012 - Mazda6 - Body and Accessories

DTC U0001:88, U0073:00 [MULTIPLEX COMMUNICATION SYSTEM]

DTC	U0001:88	CAN system communication error
	U0073:00	
DETECTION CONDITION	WARNING: • Perform the following on-board diagnosis according to FOREWORD [MULTIPLEX COMMUNICATION SYSTEM] troubleshooting procedure. • CAN system-related harness malfunction • CAN system-related module malfunction	
	POSSIBLE CAUSE • Open or short circuit in wiring harness • Malfunction of connectors between PCM, DSC HU/CM, TCM, keyless control module, BSM control module (RH), BSM control module (LH), SAS control module, BCM and instrument cluster • PCM malfunction • DSC HU/CM malfunction • TCM malfunction • Keyless control module malfunction • BSM control module (RH) malfunction • BSM control module (LH) malfunction • SAS control module malfunction • BCM malfunction • Instrument cluster malfunction	
MZI 3.7 V6  MZR 2.5 		



Diagnostic procedure

CAUTION:

- When disconnecting the connector, verify that there is no looseness, damage, deformation, corrosion, or poor connection of the connector terminals.

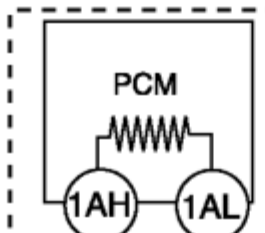
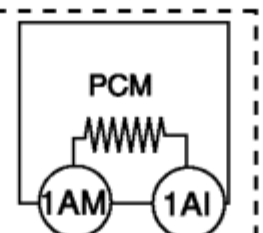
Step	Inspection	Action
1	VERIFICATION BEFORE SERVICING - Are any DTCs, except the following, displayed? - U0001:88 - U0073:00	Yes Determine the open circuit location referring to DETERMINING MALFUNCTIONING PART (HS-CAN) [MULTIPLEX COMMUNICATION SYSTEM] .
		No Go to the next step.
2	INSPECTION OF CONTROL MODULE CONNECTOR OUTPUTTING DTCs - Inspect the terminal condition of the control module connector outputting DTCs and the mid-connector. - Are the connector terminals normal without damage, deformation, corrosion, or disconnection?	Yes Go to the next step.
		No Repair or replace the connector, then go to Step 9.
3	INSPECTION OF POWER SUPPLY OF CONTROL MODULE OUTPUTTING DTCs - Refer to the terminal voltage table of the control module outputting DTCs or use the PID/data monitoring function to inspect the terminal voltage and fuse condition. - Is the power supply voltage normal?	Yes Go to the next step.
		No Repair or replace the connector, then go to Step 9.

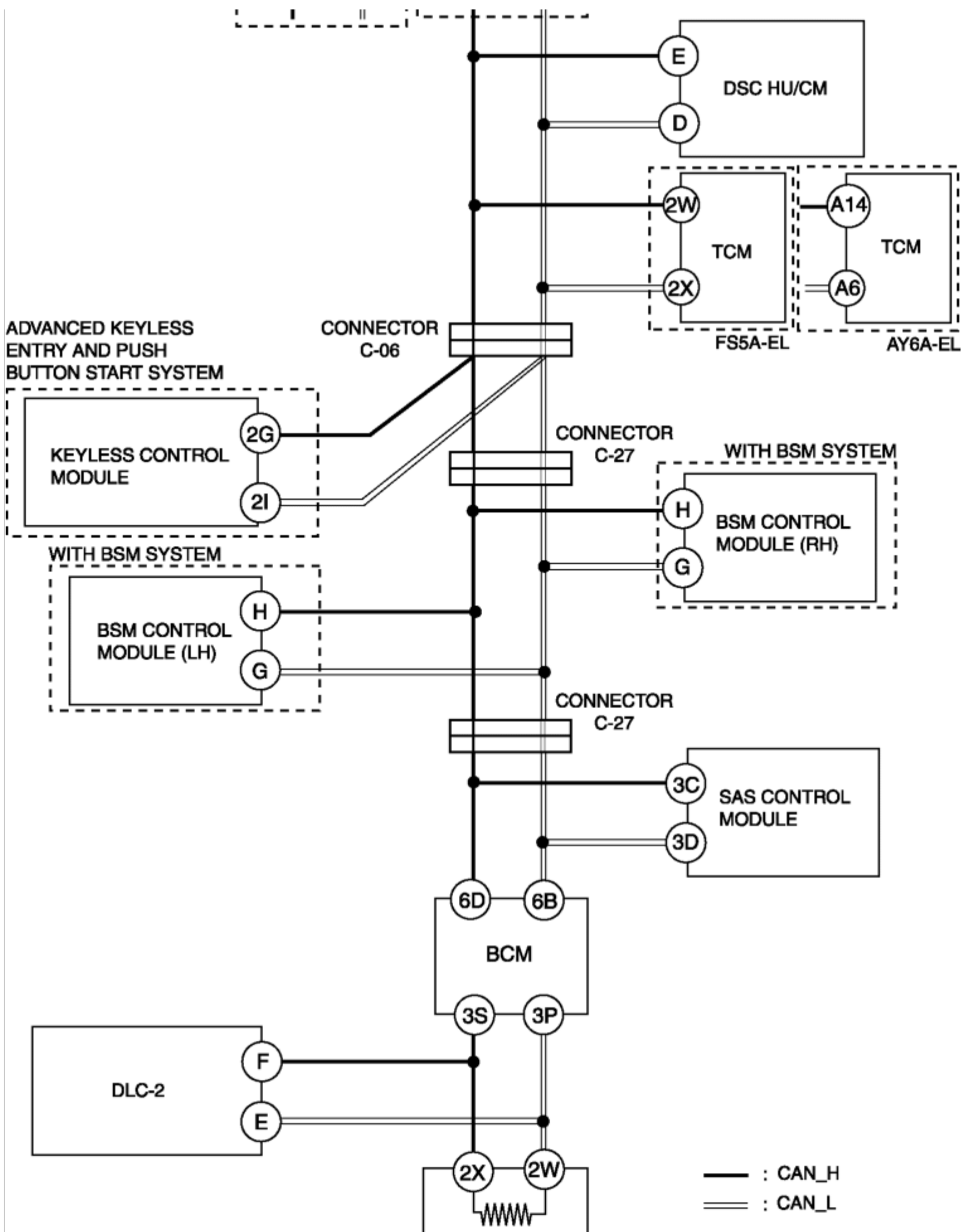
4	INSPECTION OF BODY GROUND CONDITION OF CONTROL MODULE OUTPUTTING DTCs - Inspect the body ground wires and ground point of the control module outputting DTCs. - Are the ground and ground point normal?	Yes	Go to the next step.
5	CAN SYSTEM RELATED WIRING HARNESS INSPECTION - CAN system related wiring harness inspection: - Short to ground - Short to power supply - Short between twisted pair wiring harness - Open circuit - Is the wiring harness normal?	Yes	Go to the next step.
6	INSPECT PCM - Disconnect the negative battery cable. - Disconnect the PCM connector. - Measure the resistance between the following PCM connector terminals: - Between terminal 1AM and terminal 1AI (part side) (MZR 2.5) - Between terminal 1AH and terminal	Yes	Go to the next step.
		No	Replace the PCM, then go to Step 9. (See PCM REMOVAL/ INSTALLATION [MZR 2.5] .) (See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6] .)

	1AL (part side) (MZI 3.7 V6) Is the resistance 118-130 ohm?		
7	INSPECT INSTRUMENT CLUSTER - Disconnect the instrument cluster connector. - Measure the resistance between the following instrument cluster connector terminals: - Between terminal 2X and terminal 2W (part side) - Is the resistance 118-130 ohm?	Yes	Go to the next step.
		No	Replace the instrument cluster, then go to Step 9. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
8	CAN RELATED MODULE VERIFICATION - Remove only one of the CAN-related modules. - Clear DTCs using the M-MDS. - Inspect the DTCs of all modules using the M-MDS. - Are DTCs U0001:88, U0073:00 displayed?	Yes	Reinstall the removed module, remove another module and perform the same inspection. Inspect all of the CAN-related modules using the same procedure. After inspecting all of the modules, go to the next step.
		No	Replace the removed module.
9	AFTER REPAIR VERIFICATION - Connect all of the modules. - Clear DTCs using the M-MDS. - Inspect the DTCs using the M-MDS. - Are DTCs displayed?	Yes	Perform the CAN system on-board diagnosis again according to the troubleshooting procedure. (See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM] .)
		No	DTC troubleshooting completed.

2012 - Mazda6 - Body and Accessories

DTC U0001:88, U0073:00 [MULTIPLEX COMMUNICATION SYSTEM]

DTC	U0001:88	CAN system communication error
	U0073:00	
DETECTION CONDITION	WARNING: - Perform the following on-board diagnosis according to FOREWORD [MULTIPLEX COMMUNICATION SYSTEM] troubleshooting procedure. - CAN system-related harness malfunction - CAN system-related module malfunction	
	POSSIBLE CAUSE - Open or short circuit in wiring harness - Malfunction of connectors between PCM, DSC HU/CM, TCM, keyless control module, BSM control module (RH), BSM control module (LH), SAS control module, BCM and instrument cluster - PCM malfunction - DSC HU/CM malfunction - TCM malfunction - Keyless control module malfunction - BSM control module (RH) malfunction - BSM control module (LH) malfunction - SAS control module malfunction - BCM malfunction - Instrument cluster malfunction	
MZI 3.7 V6  MZR 2.5 		



Diagnostic procedure

CAUTION:

- When disconnecting the connector, verify that there is no looseness, damage, deformation, corrosion, or poor connection of the connector terminals.

Step	Inspection	Action
1	VERIFICATION BEFORE SERVICING - Are any DTCs, except the following, displayed? - U0001:88 - U0073:00	Yes Determine the open circuit location referring to DETERMINING MALFUNCTIONING PART (HS-CAN) [MULTIPLEX COMMUNICATION SYSTEM] .
		No Go to the next step.
2	INSPECTION OF CONTROL MODULE CONNECTOR OUTPUTTING DTCs - Inspect the terminal condition of the control module connector outputting DTCs and the mid-connector. - Are the connector terminals normal without damage, deformation, corrosion, or disconnection?	Yes Go to the next step.
		No Repair or replace the connector, then go to Step 9.
3	INSPECTION OF POWER SUPPLY OF CONTROL MODULE OUTPUTTING DTCs - Refer to the terminal voltage table of the control module outputting DTCs or use the PID/data monitoring function to inspect the terminal voltage and fuse condition. - Is the power supply voltage normal?	Yes Go to the next step.
		No Repair or replace the connector, then go to Step 9.

4	INSPECTION OF BODY GROUND CONDITION OF CONTROL MODULE OUTPUTTING DTCs - Inspect the body ground wires and ground point of the control module outputting DTCs. - Are the ground and ground point normal?	Yes	Go to the next step.
5	CAN SYSTEM RELATED WIRING HARNESS INSPECTION - CAN system related wiring harness inspection: - Short to ground - Short to power supply - Short between twisted pair wiring harness - Open circuit - Is the wiring harness normal?	Yes	Go to the next step.
6	INSPECT PCM - Disconnect the negative battery cable. - Disconnect the PCM connector. - Measure the resistance between the following PCM connector terminals: - Between terminal 1AM and terminal 1AI (part side) (MZR 2.5) - Between terminal 1AH and terminal	Yes	Go to the next step.
		No	Replace the PCM, then go to Step 9. (See PCM REMOVAL/ INSTALLATION [MZR 2.5] .) (See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6] .)

	1AL (part side) (MZI 3.7 V6) Is the resistance 118-130 ohm?		
7	INSPECT INSTRUMENT CLUSTER - Disconnect the instrument cluster connector. - Measure the resistance between the following instrument cluster connector terminals: - Between terminal 2X and terminal 2W (part side) - Is the resistance 118-130 ohm?	Yes	Go to the next step.
		No	Replace the instrument cluster, then go to Step 9. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
8	CAN RELATED MODULE VERIFICATION - Remove only one of the CAN-related modules. - Clear DTCs using the M-MDS. - Inspect the DTCs of all modules using the M-MDS. - Are DTCs U0001:88, U0073:00 displayed?	Yes	Reinstall the removed module, remove another module and perform the same inspection. Inspect all of the CAN-related modules using the same procedure. After inspecting all of the modules, go to the next step.
		No	Replace the removed module.
9	AFTER REPAIR VERIFICATION - Connect all of the modules. - Clear DTCs using the M-MDS. - Inspect the DTCs using the M-MDS. - Are DTCs displayed?	Yes	Perform the CAN system on-board diagnosis again according to the troubleshooting procedure. (See FOREWORD [MULTI PLEX COMMUNICATION SYSTEM] .)
		No	DTC troubleshooting completed.

