# 2012 - Mazda6 - Restraints

## DTC U0028:88

### System Malfunction Location

- DSC HU/CM communication fault

### Detection Condition

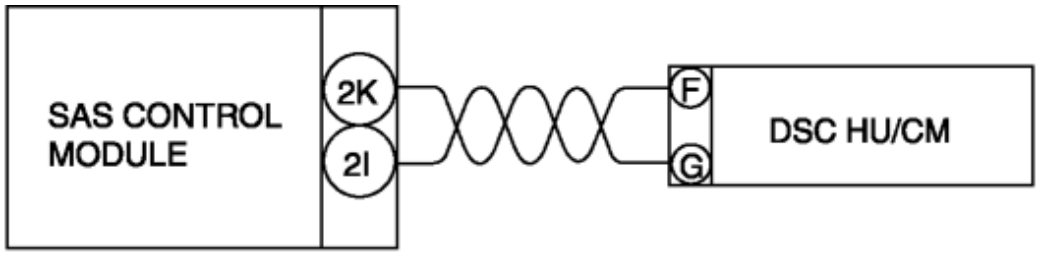
**WARNING:**

- Detection conditions are for understanding the DTC outline before performing an inspection. Performing an inspection with only detection conditions may cause injury due to an operating error, or damage the system. When performing an inspection, always follow the inspection procedure.
- Communication error to DSC HU/CM

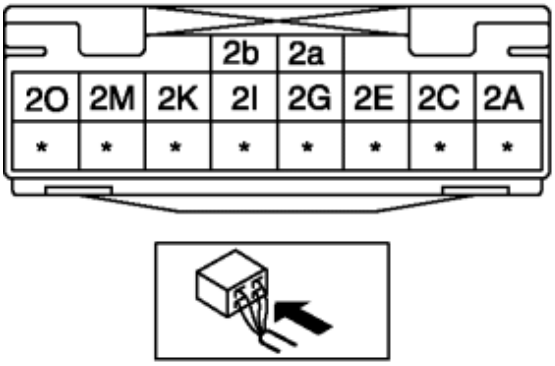
### Possible Causes

- DSC HU/CM connector malfunction
- SAS control module connector malfunction
- Open circuit in wiring harness between SAS control module and DSC HU/CM
- Short to power supply in wiring harness between SAS control module and DSC HU/CM
- Short to GND in wiring harness between SAS control module and DSC HU/CM
- DSC HU/CM malfunction
- SAS control module malfunction

### System Wiring Diagram

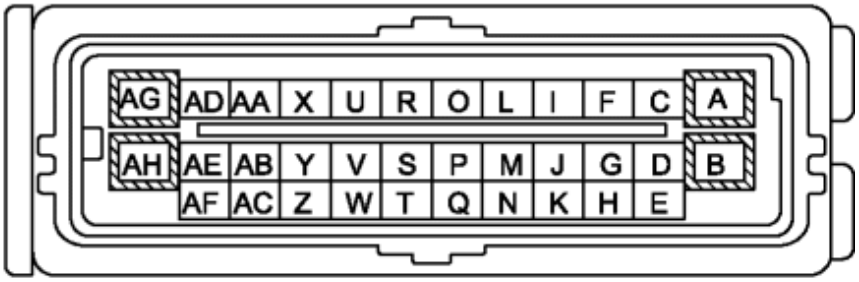


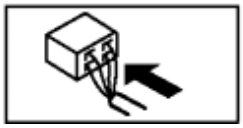

SAS CONTROL MODULE HARNESS SIDE CONNECTOR






DSC HU/CM HARNESS SIDE CONNECTOR



**Diagnostic Procedure**

| Step | Inspection | | Action |
|---|---|---|---|
| 1 | **INSPECT DSC HU/ CM CONNECTOR**<br>• Switch the ignition to off.<br>• Disconnect the negative battery cable and wait for **1 min or more**.<br>• Disconnect the DSC HU/CM connector.<br>• Inspect the DSC HU/CM connector terminals for poor connection (such as damaged/pulled-out pins, and corrosion).<br>• Is there any malfunction? | Yes | Repair or replace the terminal, then go to Step 5. |
| | | No | Go to the next step. |
| 2 | **INSPECT SAS CONTROL MODULE CONNECTOR**<br>• Disconnect the SAS control module connectors. (See **SAS CONTROL MODULE REMOVAL/ INSTALLATION**.)<br>• Inspect the SAS control module connector terminal for poor connection (such as damaged/pulled-out pins, and corrosion). | Yes | Repair or replace the terminal, then go to Step 5. |
| | | No | Go to the next step. |

| | | | |
|---|---|---|---|
| | • Is there any malfunction? | | |
| 3 | **INSPECT WIRING HARNESS BETWEEN DSC HU/CM AND SAS CONTROL MODULE**<br>• Inspect the wiring harness between SAS control module terminal 2K and DSC HU/CM terminal F, SAS control module terminal 2I and DSC HU/CM terminal G for the following:<br>▪ Short to body ground<br>▪ Open circuit<br>▪ Short circuit between terminals<br>**NOTE:**<br>• Inspect for continuity while shaking the wiring harness between the DSC HU/CM and SAS control module.<br>• Is the wiring harness normal? | Yes | Go to the next step. |
| | | No | Replace the wiring harness between the SAS control module and the DSC HU/CM. |
| 4 | **INSPECT THE WIRING HARNESS BETWEEN THE SAS CONTROL MODULE AND DSC HU/CM FOR A SHORT CIRCUIT TO THE POWER SUPPLY**<br>• Connect the negative battery cable.<br>• Switch the ignition to ON with SAS control module and DSC HU/CM connector disconnected.<br>• Measure the voltage of SAS control module connector terminals 2K and 2I of SAS control module harness side connector.<br>**NOTE:**<br>• Measure the voltage while shaking the wiring harness between the SAS control module and DSC HU/CM.<br>• Is the voltage measured? | Yes | Repair or replace the wiring harness for a possible short to power supply, then go to the next step. |
| | | No | Replace the DSC HU/CM, then go to the next step.<br>(See **DSC HU/CM REMOVAL/INSTALLATION**.) |
| 5 | **VERIFY TROUBLESHOOTING COMPLETED**<br>• Make sure to reconnect all disconnected connectors.<br>• Clear the DTC from the SAS control module memory using the M-MDS. (See **CLEARING DTC**.)<br>• Switch the ignition to off then switch the ignition to ON.<br>• Is the same DTC present? | Yes | Replace the SAS control module.<br>(See **SAS CONTROL MODULE REMOVAL/INSTALLATION**.) |
| | | No | DTC troubleshooting completed. |

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### Detection Condition

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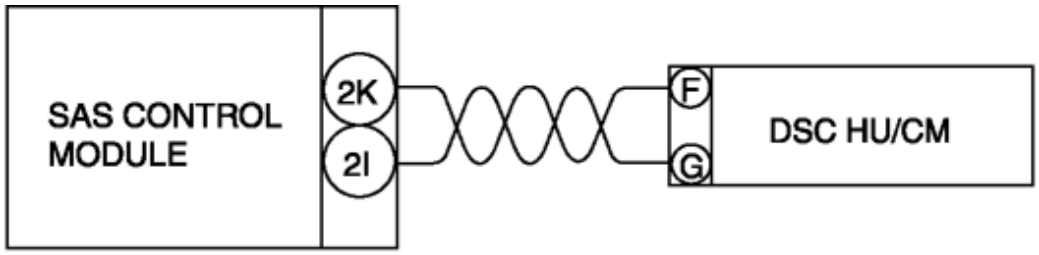
- Detection conditions are for understanding the DTC outline before performing an inspection. Performing an inspection with only detection conditions may cause injury due to an operating error, or damage the system. When performing an inspection, always follow the inspection procedure.
- Communication error to DSC HU/CM

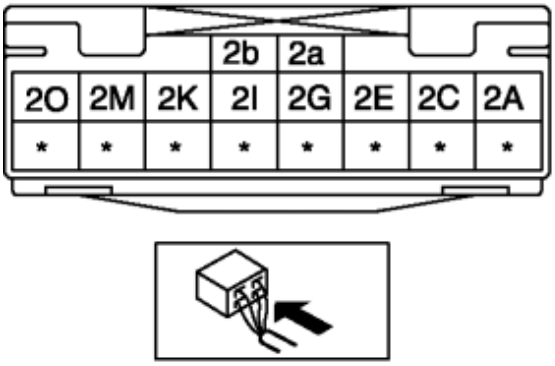
### Possible Causes

- DSC HU/CM connector malfunction
- SAS control module connector malfunction
- Open circuit in wiring harness between SAS control module and DSC HU/CM
- Short to power supply in wiring harness between SAS control module and DSC HU/CM
- Short to GND in wiring harness between SAS control module and DSC HU/CM
- DSC HU/CM malfunction
- SAS control module malfunction

### System Wiring Diagram




SAS CONTROL MODULE HARNESS SIDE CONNECTOR



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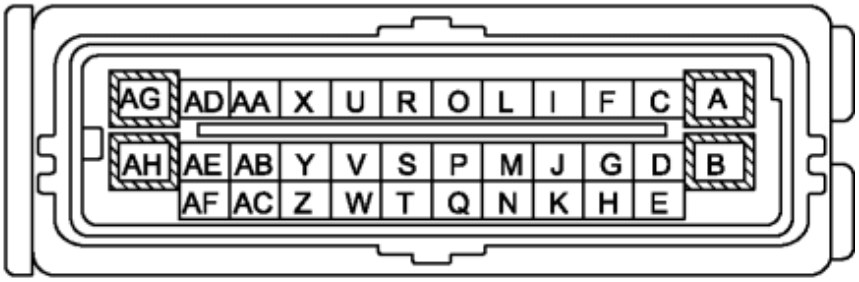


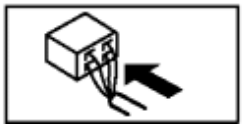

**Diagnostic Procedure**

| Step | Inspection | | Action |
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| 1 | **INSPECT DSC HU/ CM CONNECTOR**<br>• Switch the ignition to off.<br>• Disconnect the negative battery cable and wait for **1 min or more**.<br>• Disconnect the DSC HU/CM connector.<br>• Inspect the DSC HU/CM connector terminals for poor connection (such as damaged/pulled-out pins, and corrosion).<br>• Is there any malfunction? | Yes | Repair or replace the terminal, then go to Step 5. |
| | | No | Go to the next step. |
| 2 | **INSPECT SAS CONTROL MODULE CONNECTOR**<br>• Disconnect the SAS control module connectors. (See **SAS CONTROL MODULE REMOVAL/ INSTALLATION**.)<br>• Inspect the SAS control module connector terminal for poor connection (such as damaged/pulled-out pins, and corrosion). | Yes | Repair or replace the terminal, then go to Step 5. |
| | | No | Go to the next step. |

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| | | No | Replace the DSC HU/CM, then go to the next step.<br>(See **DSC HU/CM REMOVAL/INSTALLATION**.) |
| 5 | **VERIFY TROUBLESHOOTING COMPLETED**<br>• Make sure to reconnect all disconnected connectors.<br>• Clear the DTC from the SAS control module memory using the M-MDS. (See **CLEARING DTC**.)<br>• Switch the ignition to off then switch the ignition to ON.<br>• Is the same DTC present? | Yes | Replace the SAS control module.<br>(See **SAS CONTROL MODULE REMOVAL/INSTALLATION**.) |
| | | No | DTC troubleshooting completed. |