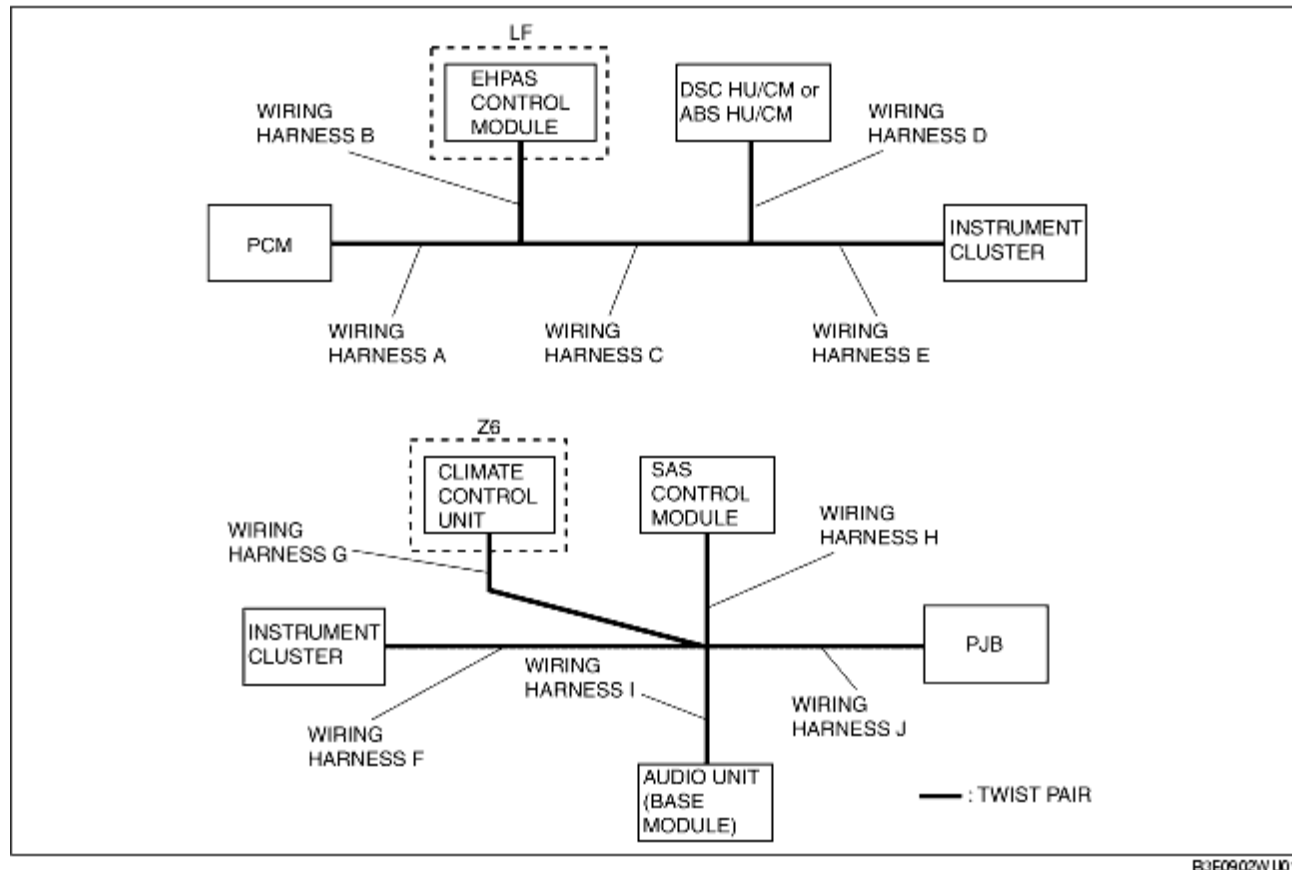


# PROCEDURES FOR DETERMINING THE LOCATION OF A MALFUNCTION

B3E090255430W03

## System Wiring Diagram



B3E0902W U01

## PCM

1. Inspect the display of DTC U0121 and/or U0155, using the WDS or equivalent. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)
2. Referring to the following table, determine the malfunctioning part of the CAN system.

×: Normal

-: Communication error

Module	Communication status		Malfunction location
	DSC HU/CM or ABS HU/CM	Instrument cluster	
PCM	-	-	<ul style="list-style-type: none"> <li>• Wiring harness A</li> <li>• Wiring harness C</li> <li>• Instrument cluster</li> <li>• PCM</li> </ul>
	×	-	<ul style="list-style-type: none"> <li>• Wiring harness E</li> <li>• Instrument cluster</li> </ul>
	-	×	<ul style="list-style-type: none"> <li>• Wiring harness D</li> <li>• DSC HU/CM or ABS HU/CM</li> </ul>

## EHPAS Control Module

1. Inspect the display of DTC U0100 and/or U2023, using the WDS or equivalent. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

2. Referring to the following table, determine the malfunctioning part of the CAN system.

×: Normal

-: Communication error

Module	Communication status	Malfunction location
	PCM	
EHPAS control module	-	<ul style="list-style-type: none"><li>• Wiring harness A</li><li>• Wiring harness B</li><li>• EHPAS control module</li><li>• PCM</li></ul>

## DSC HU/CM or ABS HU/CM

1. Inspect the display of DTC U1900, U2202 (with DSC) and/or U2523, using the WDS or equivalent. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

2. Referring to the following table, determine the malfunctioning part of the CAN system.

×: Normal

-: Communication error

Communication error		
Module	Communication status	Malfunction location
	PCM	
DSC HU/CM or ABS HU/CM	-	<ul style="list-style-type: none"><li>• Wiring harness A</li><li>• Wiring harness C</li><li>• Wiring harness D</li><li>• PCM</li></ul>

## Instrument Cluster

1. Inspect the display of DTC U0100, U0121 and/or U0131, using the WDS or equivalent. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

2. Referring to the following table, determine the malfunctioning part of the CAN system.

×: Normal

-: Communication error

Module	Communication status			Malfunction location
	PCM	DSC HU/CM or ABS HU/CM	EHPAS control module	
	-	-	-	<ul style="list-style-type: none"> <li>• Wiring harness E</li> <li>• PCM</li> <li>• DSC HU/CM or ABS HU/CM</li> <li>• EHPAS control module</li> <li>• Instrument cluster</li> </ul>
	-	-	×	<ul style="list-style-type: none"> <li>• Wiring harness A</li> <li>• Wiring harness D</li> <li>• PCM</li> <li>• DSC HU/CM or ABS HU/CM</li> </ul>
				<ul style="list-style-type: none"> <li>• Wiring harness C</li> </ul>

Instrument cluster	-	x	-	<ul style="list-style-type: none"> <li>PCM</li> <li>EHPAS control module</li> </ul>
	-	x	x	<ul style="list-style-type: none"> <li>Wiring harness A</li> <li>PCM</li> </ul>
	x	-	-	<ul style="list-style-type: none"> <li>Wiring harness B</li> <li>Wiring harness D</li> <li>DSC HU/CM or ABS HU/CM</li> <li>EHPAS control module</li> </ul>
	x	-	x	<ul style="list-style-type: none"> <li>Wiring harness D</li> <li>DSC HU/CM or ABS HU/CM</li> </ul>
	x	x	-	<ul style="list-style-type: none"> <li>Wiring harness B</li> <li>EHPAS control module</li> </ul>

3. Inspect the display of DTC U0140, U0151 and/or U0184, using the WDS or equivalent. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

4. Referring to the following table, determine the malfunctioning part of the CAN system.

x: Normal

-: Communication error

Module	Communication status			Malfunction location
	PJB	SAS control module	Audio unit (base module)	
Instrument cluster	-	-	-	<ul style="list-style-type: none"> <li>Wiring harness F</li> <li>Instrument cluster</li> <li>PJB</li> <li>SAS control module</li> <li>Audio unit (base module)</li> </ul>
	-	-	x	<ul style="list-style-type: none"> <li>Wiring harness H</li> <li>Wiring harness J</li> <li>PJB</li> <li>SAS control module</li> </ul>
	-	x	-	<ul style="list-style-type: none"> <li>Wiring harness I</li> <li>Wiring harness J</li> <li>PJB</li> <li>Audio unit (base module)</li> </ul>
	-	x	x	<ul style="list-style-type: none"> <li>Wiring harness J</li> <li>PJB</li> </ul>
	x	-	-	<ul style="list-style-type: none"> <li>Wiring harness H</li> <li>Wiring harness I</li> <li>SAS control module</li> <li>Audio unit (base module)</li> </ul>
	x	-	x	<ul style="list-style-type: none"> <li>Wiring harness H</li> <li>SAS control module</li> </ul>
	x	x	-	<ul style="list-style-type: none"> <li>Wiring harness I</li> <li>Audio unit (base module)</li> </ul>

## Climate Control Unit

1. Inspect the display of DTC U0140, U0155 and/or U0184, using the WDS or equivalent. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

2. Referring to the following table, determine the malfunctioning part of the CAN system.

x: Normal

-: Communication error

Module	Communication status			Malfunction location
	PJB	Instrument cluster	Audio unit (base module)	
Climate control unit	-	-	-	<ul style="list-style-type: none"> <li>• Wiring harness G</li> <li>• Climate control unit</li> <li>• PJB</li> <li>• Instrument cluster</li> <li>• Audio unit (base module)</li> </ul>
	-	-	x	<ul style="list-style-type: none"> <li>• Wiring harness F</li> <li>• Wiring harness J</li> <li>• PJB</li> <li>• Instrument cluster</li> </ul>
	-	x	-	<ul style="list-style-type: none"> <li>• Wiring harness I</li> <li>• Wiring harness J</li> <li>• PJB</li> <li>• Audio unit (base module)</li> </ul>
	-	x	x	<ul style="list-style-type: none"> <li>• Wiring harness J</li> <li>• PJB</li> </ul>
	x	-	-	<ul style="list-style-type: none"> <li>• Wiring harness F</li> <li>• Wiring harness I</li> <li>• Instrument cluster</li> <li>• Audio unit (base module)</li> </ul>
	x	-	x	<ul style="list-style-type: none"> <li>• Wiring harness F</li> <li>• Instrument cluster</li> </ul>
	x	x	-	<ul style="list-style-type: none"> <li>• Wiring harness I</li> <li>• Audio unit (base module)</li> </ul>

## SAS Control Module

1. Inspect the display of DTC U1900 using the WDS or equivalent. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)
2. Referring to the following table, determine the malfunctioning part of the CAN system.

x: Normal

-: Communication error

Communication error		
Module	Communication status	Malfunction location
	Instrument cluster	
SAS control module	-	<ul style="list-style-type: none"><li>• Wiring harness F</li><li>• Wiring harness H</li><li>• SAS control module</li><li>• Instrument cluster</li></ul>

## PJB

1. Inspect the display of DTC U1900 using the WDS or equivalent. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)
2. Referring to the following table, determine the malfunctioning part of the CAN system.

x: Normal

-: Communication error

Communication error		
Module	Communication status	Malfunction location
	Climate control unit	
	Audio unit (base module)	

	Instrument cluster	
PJB	-	<ul style="list-style-type: none"> <li>• Wiring harness F</li> <li>• Wiring harness G</li> <li>• Wiring harness I</li> <li>• Wiring harness J</li> <li>• PJB</li> <li>• Climate control unit</li> <li>• Audio unit (base module)</li> <li>• Instrument cluster</li> </ul>

## Repair Procedure

1. Inspect the connector of malfunctioning module.

- If there is any malfunction, repair or replace the connector.

2. Inspect the malfunctioning wiring harnesses as follow:

- If there is any malfunction, repair or replace the wiring harnesses.
- If there is no malfunction, replace the malfunctioning module.
  - Short to GND
  - Short to power supply
  - Twisted pair short each other
  - Open circuit

3. Make sure to reconnect all disconnected connectors.

4. Clear the CAN system related DTCs using the WDS or equivalent.

5. Verify if the CAN system related DTCs are displayed using the WDS or equivalent.

- If the same following DTCs are present, replace the malfunctioning module.
  - U0073 (PCM, EHPAS control module, instrument cluster, SAS control module)
  - U0516 (Climate control unit)
  - U1900 (PJB)
  - U2012 (DSC HU/CM or ABS HU/CM)
  - U2516 (Instrument cluster)
- If other DTC is present, perform the appropriate DTC inspection. (See [DTC TABLE \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)