

## 2012 - Mazda6 - Engine

### DTC P068A:00 [MZI 3.7 V6]

|                            |                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| DTC P068A:00               | ECM/PCM power relay de-engaged-too early                                                                                                                |
| <b>DETECTION CONDITION</b> | <ul style="list-style-type: none"> <li>P068A:00 is set when the PCM powers down after a key off prior to completing the NVRAM write process.</li> </ul> |
| <b>POSSIBLE CAUSE</b>      | <ul style="list-style-type: none"> <li>PCM malfunction</li> </ul>                                                                                       |

### Diagnostic procedure

| STEP | INSPECTION                                                                                                                                                                                                                                                                                                       | ACTION                                                                                                                                                                               |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>VERIFY FREEZE FRAME DATA HAS BEEN RECORDED</b> <ul style="list-style-type: none"> <li>Has FREEZE FRAME DATA been recorded?</li> </ul>                                                                                                                                                                         | Yes Go to the next step.                                                                                                                                                             |
|      |                                                                                                                                                                                                                                                                                                                  | No Record FREEZE FRAME DATA on the repair order, then go to the next step.                                                                                                           |
| 2    | <b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>Verify related Service Bulletins and/or on-line repair information availability.</li> <li>Is any related Service Bulletins available?</li> </ul>                                                                    | Yes Perform repair or diagnosis according to the available Service Bulletins. <ul style="list-style-type: none"> <li>If the vehicle is not repaired, go to the next step.</li> </ul> |
|      |                                                                                                                                                                                                                                                                                                                  | No Perform PCM reprograming using the M-MDS, then go to the next step.                                                                                                               |
| 3    | <b>VERIFY TROUBLESHOOTING OF DTC P068A:00 HAS BEEN COMPLETED</b> <ul style="list-style-type: none"> <li>Verify that all disconnected connectors are reconnected.</li> <li>Switch the ignition ON (Engine off).</li> <li>Clear the DTC from the PCM memory using the M-MDS.</li> <li>Start the engine.</li> </ul> | Yes Replace the PCM, then go to the next step.<br><br>(See <a href="#">PCM REMOVAL/ INSTALLATION [MZI 3.7 V6]</a> .)                                                                 |
|      |                                                                                                                                                                                                                                                                                                                  | No Go to the next step.                                                                                                                                                              |

|   |                                                                                                                                                                                                     |     |                                                                               |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"><li>• Switch the ignition switch off then ON (Engine off).</li><li>• Retrieve DTCs using the M-MDS.</li><li>• Is the PENDING CODE for this DTC present?</li></ul> |     |                                                                               |
| 4 | <b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"><li>• Perform the "AFTER REPAIR PROCEDURE".</li></ul> (See <b>AFTER REPAIR PROCEDURE [MZI 3.7 V6]</b> .)                     | Yes | Go to the applicable DTC inspection.<br>(See <b>DTC TABLE [MZI 3.7 V6]</b> .) |
|   |                                                                                                                                                                                                     | No  | Troubleshooting completed.                                                    |
|   | <ul style="list-style-type: none"><li>• Are any DTCs present?</li></ul>                                                                                                                             |     |                                                                               |

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| <b>DETECTION CONDITION</b> | <ul style="list-style-type: none"> <li>P068A:00 is set when the PCM powers down after a key off prior to completing the NVRAM write process.</li> </ul> |
| <b>POSSIBLE CAUSE</b>      | <ul style="list-style-type: none"> <li>PCM malfunction</li> </ul>                                                                                       |

### Diagnostic procedure

| STEP | INSPECTION                                                                                                                                                                                                                                                                                                       | ACTION                                                                                                                                                                               |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>VERIFY FREEZE FRAME DATA HAS BEEN RECORDED</b> <ul style="list-style-type: none"> <li>Has FREEZE FRAME DATA been recorded?</li> </ul>                                                                                                                                                                         | Yes Go to the next step.                                                                                                                                                             |
|      |                                                                                                                                                                                                                                                                                                                  | No Record FREEZE FRAME DATA on the repair order, then go to the next step.                                                                                                           |
| 2    | <b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>Verify related Service Bulletins and/or on-line repair information availability.</li> <li>Is any related Service Bulletins available?</li> </ul>                                                                    | Yes Perform repair or diagnosis according to the available Service Bulletins. <ul style="list-style-type: none"> <li>If the vehicle is not repaired, go to the next step.</li> </ul> |
|      |                                                                                                                                                                                                                                                                                                                  | No Perform PCM reprograming using the M-MDS, then go to the next step.                                                                                                               |
| 3    | <b>VERIFY TROUBLESHOOTING OF DTC P068A:00 HAS BEEN COMPLETED</b> <ul style="list-style-type: none"> <li>Verify that all disconnected connectors are reconnected.</li> <li>Switch the ignition ON (Engine off).</li> <li>Clear the DTC from the PCM memory using the M-MDS.</li> <li>Start the engine.</li> </ul> | Yes Replace the PCM, then go to the next step.<br><br>(See <a href="#">PCM REMOVAL/ INSTALLATION [MZI 3.7 V6]</a> .)                                                                 |
|      |                                                                                                                                                                                                                                                                                                                  | No Go to the next step.                                                                                                                                                              |

|   |                                                                                                                                                                                                     |     |                                                                               |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"><li>• Switch the ignition switch off then ON (Engine off).</li><li>• Retrieve DTCs using the M-MDS.</li><li>• Is the PENDING CODE for this DTC present?</li></ul> |     |                                                                               |
| 4 | <b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"><li>• Perform the "AFTER REPAIR PROCEDURE".</li></ul> (See <b>AFTER REPAIR PROCEDURE [MZI 3.7 V6]</b> .)                     | Yes | Go to the applicable DTC inspection.<br>(See <b>DTC TABLE [MZI 3.7 V6]</b> .) |
|   |                                                                                                                                                                                                     | No  | Troubleshooting completed.                                                    |
|   | <ul style="list-style-type: none"><li>• Are any DTCs present?</li></ul>                                                                                                                             |     |                                                                               |