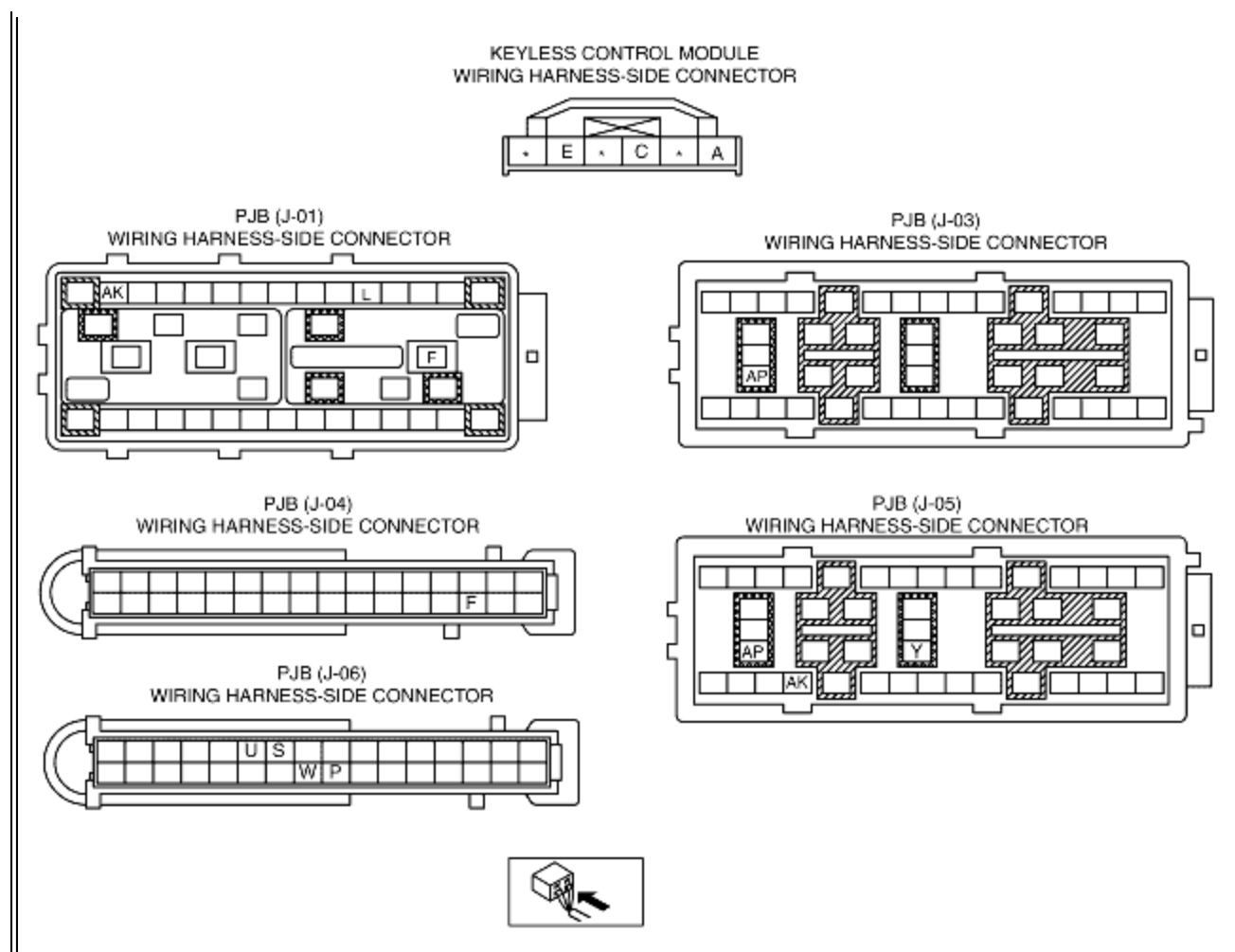


## NO.2 ALL ON-BOARD DIAGNOSTIC FUNCTIONS INOPERATIVE

B3E090369000W06

• When performing an asterisked (\*) troubleshooting inspection, slightly shake the wiring harness and connectors while performing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, verify that the connectors, terminals and wiring harnesses are connected correctly and undamaged.

<b>2</b>	<b>All on-board diagnostic functions inoperative</b>
<b>DESCRIPTION</b>	<ul style="list-style-type: none"> <li>• Malfunction in PJB power supply circuit, door latch switch circuit, PJB ground circuit, or keyless control module.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• Malfunction in IG1 or power supply signal circuit of PJB <ul style="list-style-type: none"> <li>- PJB power supply fuse malfunction</li> <li>- Malfunction in wiring harness between PJB power supply fuses and PJB</li> </ul> </li> <li>• Malfunction in door open/closed signal circuit of PJB <ul style="list-style-type: none"> <li>- Door latch switch system malfunction</li> <li>- PJB malfunction</li> <li>- Malfunction in wiring harness between PJB and door latch switch</li> </ul> </li> <li>• Malfunction in PJB GND signal circuit <ul style="list-style-type: none"> <li>- Malfunction in wiring harness between PJB and ground</li> </ul> </li> <li>• Malfunction in keyless control module <ul style="list-style-type: none"> <li>- Keyless control module malfunction</li> <li>- Malfunction in wiring harness between keyless control module and PJB</li> </ul> </li> </ul>

**Diagnostic procedure**

STEP	INSPECTION	ACTION	
1	<b>INSPECT PJB POWER SUPPLY FUSES</b> • Are the PJB power supply fuses normal?	Yes	Go to the next step.
		No	Install an appropriate amperage fuse.
2	<b>INSPECT DOOR LATCH SWITCH INSTALLATION</b> • Are the door latch switches installed securely?	Yes	Go to the next step.
		No	Install the door latch switches securely, then go back to Step 5 of KEYLESS ENTRY SYSTEM PRELIMINARY INSPECTION.
*3	<b>INSPECT IF MALFUNCTION IS IN WIRING HARNESS (NO CONTINUITY BETWEEN FUSE BLOCK AND PJB) OR ELSEWHERE</b> • Turn the ignition switch to the ON position. • Measure the voltage at the following PJB terminals: - IG1 signal (terminal J-03 AP) - Power supply signal (terminal J-01 F)  • Is the voltage <b>B+</b> ?	Yes	Go to the next step.
		No	Repair the wiring harness between the fuse block and PJB, then go to Step 13.
	<b>INSPECT IF MALFUNCTION IS IN WIRING HARNESS (SHORT TO POWER SUPPLY BETWEEN FUSE BLOCK AND PJB, OR BETWEEN PJB AND GROUND) OR ELSEWHERE</b>	Yes	Repair the malfunctioning wiring harness, then go to Step 13.

*4	<ul style="list-style-type: none"> <li>Turn the ignition switch to the LOCK position.</li> <li>Disconnect the PJB connector.</li> <li>Measure the voltage at the following PJB terminal (wiring harness-side): <ul style="list-style-type: none"> <li>IG1 signal (terminal J-03 AP)</li> </ul> </li> <li>Is the voltage <b>B+</b>?</li> </ul>	No	Go to the next step.
*5	<b>INSPECT IF MALFUNCTION IS IN WIRING HARNESS (NO CONTINUITY BETWEEN PJB AND GROUND) OR ELSEWHERE</b> <ul style="list-style-type: none"> <li>Is there continuity between PJB terminal J-03 C, J-03 X and ground?</li> </ul>	Yes	Go to the next step.
		No	Repair the wiring harness between the PJB and ground, then go to Step 13.
6	<b>INSPECT FOR CHECK CODE 04 IN INSTRUMENT CLUSTER</b> <ul style="list-style-type: none"> <li>Inspect the door latch switch using the instrument cluster input/output check mode. (See <a href="#">INSTRUMENT CLUSTER INPUT/OUTPUT CHECK MODE.</a>)</li> <li>Is DTC 04 displayed?</li> </ul>	Yes	Go to the next step.
		No	Repair the door latch switch system using the DTC 04 inspection procedure, then go to Step 13.
7	<b>INSPECT PJB OR WIRING HARNESS (BETWEEN PJB AND DOOR LATCH SWITCHES FOR CONTINUITY)</b> <ul style="list-style-type: none"> <li>Open all doors.</li> <li>Is there continuity between PJB terminals J-06 P, J-06 S, J-06 U, J-06 W and ground?</li> </ul>	Yes	Replace the PJB and reprogram the transmitter ID code, then go to the next step.
		No	Repair the wiring harness between the PJB and door latch switches, then go to the next step.
8	<b>INSPECT POWER SUPPLY FUSE</b> <ul style="list-style-type: none"> <li>Is the keyless control module power supply fuse normal?</li> </ul>	Yes	Go to the next step.
		No	Install an appropriate amperage fuse.
9	<b>INSPECT IF MALFUNCTION IS IN WIRING HARNESS (NO CONTINUITY BETWEEN FUSE BLOCK AND KEYLESS CONTROL MODULE) OR ELSEWHERE</b> <ul style="list-style-type: none"> <li>Turn the ignition switch to the ON position.</li> <li>Measure the voltage at the following keyless control module terminal: <ul style="list-style-type: none"> <li>IG1 signal (terminal A)</li> </ul> </li> <li>Is the voltage <b>B+</b>?</li> </ul>	Yes	Go to the next step.
		No	Repair the wiring harness between the fuse block and keyless control module, then go to Step 13.
10	<b>INSPECT IF MALFUNCTION IS IN WIRING HARNESS (NO CONTINUITY BETWEEN KEYLESS CONTROL MODULE AND GROUND) OR ELSEWHERE</b> <ul style="list-style-type: none"> <li>Is there continuity between keyless control module terminal E and ground?</li> </ul>	Yes	Go to the next step.
		No	Repair the wiring harness between the keyless control module and ground, then go to Step 13.
11	<b>INSPECT IF MALFUNCTION IS IN WIRING HARNESS (NO CONTINUITY BETWEEN KEYLESS CONTROL MODULE AND PJB) OR ELSEWHERE</b> <ul style="list-style-type: none"> <li>Turn the ignition switch to the ON position.</li> <li>Disconnect the keyless control module connector and PJB connector.</li> <li>Is there continuity between the following terminals?</li> </ul>	Yes	Go to the next step.
		No	Repair the wiring harness between the keyless control module and PJB, then go to Step 13.

	- J-04 F (PJB connector)-C (keyless control module connector)		
12	<b>INSPECT IF MALFUNCTION IS IN WIRING HARNESS (NO CONTINUITY BETWEEN KEYLESS CONTROL MODULE AND PJB) OR PJB</b>  • Measure the voltage at keyless control module terminal C.  - When transmitter operated: • Any transmitter button is operated without key in steering lock (key reminder switch off): <b>5 V → 1.0 V or less</b> • Key is in steering lock (key reminder switch on): <b>0.5 V or less</b>  • Is the voltage normal?	Yes	Replace the PJB, then go to the next step.
		No	Replace the keyless control module, then go to the next step.
13	<b>REINSPECT MALFUNCTION SYMPTOM AFTER REPAIR</b>  • Does the keyless entry system operate properly?	Yes	Troubleshooting completed. Explain repairs to the customer.
		No	Reinspect the malfunction symptoms, then repeat from Step 1 if the malfunction recurs.