

2012 - Mazda6 - Body and Accessories

NO.1 SECURITY LIGHT DISPLAY IS NOT NORMAL [IMMOBILIZER SYSTEM]

1	The security light display is not normal
DESCRIPTION	- The security light remains illuminated 2 min or more after the ignition is switched to ON. - The security light does not illuminate when the ignition is switched to ON. - The security light remains illuminated while the ignition is switched off. - The security light does not flash or the flashing interval is abnormal while the ignition is switched off.
POSSIBLE CAUSE	- Keyless control module malfunction (with advanced keyless entry and push button start system) - Instrument cluster malfunction NOTE: - If the security light remains illuminated for approx. 1 min after the ignition switch is turned to ON and a DTC is displayed, perform the immobilizer system malfunction diagnosis according to that DTC. (See DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] DTC TABLE [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) - While performing the immobilizer system security access using the M-MDS, the security light does not illuminate even if the ignition is switched to ON. Verify the illumination condition of the security light by disconnecting the DLC-2 to release security access. NOTE: SECURITY LIGHT FLASHING SEQUENCE WHEN IGNITION IS SWITCHED TO OFF (IMMOBILIZER SYSTEM IS NORMAL) ILLUMINATED APPROX.1.9 s APPROX.1.9 s APPROX. 0.1 s Turns OFF

NOTE:

- Normal operation of the security light is as follows. The light starts flashing every 2 s when the ignition switch is turned from ON to ACC position and the immobilizer system is armed. The light stops flashing when the ignition switch is turned to the ON position with the correct ignition key. At this time, the immobilizer system is disarmed and the security light illuminates for about 3 s and then goes out.

Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	• Switch the ignition to ON. • Do other warning lights in the instrument cluster illuminate normally? • Do the warning lights illumination normal?	Yes	Go to the next step.
		No	Inspect the instrument cluster. (See INSTRUMENT CLUSTER INSPECTION .)
2	• Switch the ignition to ON. • Verify that the security light illuminates. • Does the security light remain illuminates for 2 min or more?	Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		No	Go to the next step.
3	• Switch the ignition to OFF. • Verify that the security light illuminates. • Does the security light remain illuminates for 2 min or more?	Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		No	Go to the next step.
4	• Switch the ignition to off. • Verify that the security light is flashing. • Does the security light flash normally?	Yes	Go to the next step.
		No	If the security light flashes with DTC patterns, perform the applicable DTC troubleshooting procedure. (See DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) (See DTC TABLE [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) If the security light does not flash, replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)

5	Is the advanced keyless entry and push button start system equipped?	Yes	Go to the next step.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
6	- Disconnect the negative battery. - Disconnect the keyless control module connectors. - Connect the negative battery. - Switch the ignition to ON. - Verify that the security light illuminates. - Does the security light illuminate normally?	Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		No	Replace the keyless control module. (See KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)

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Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	• Switch the ignition to ON. • Do other warning lights in the instrument cluster illuminate normally? • Do the warning lights illumination normal?	Yes	Go to the next step.
		No	Inspect the instrument cluster. (See INSTRUMENT CLUSTER INSPECTION .)
2	• Switch the ignition to ON. • Verify that the security light illuminates. • Does the security light remain illuminates for 2 min or more?	Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		No	Go to the next step.
3	• Switch the ignition to OFF. • Verify that the security light illuminates. • Does the security light remain illuminates for 2 min or more?	Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		No	Go to the next step.
4	• Switch the ignition to off. • Verify that the security light is flashing. • Does the security light flash normally?	Yes	Go to the next step.
		No	If the security light flashes with DTC patterns, perform the applicable DTC troubleshooting procedure. (See DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM].) (See DTC TABLE [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)].) If the security light does not flash, replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)

5	Is the advanced keyless entry and push button start system equipped?	Yes	Go to the next step.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
6	- Disconnect the negative battery. - Disconnect the keyless control module connectors. - Connect the negative battery. - Switch the ignition to ON. - Verify that the security light illuminates. - Does the security light illuminate normally?	Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		No	Replace the keyless control module. (See KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM] .)

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