

2012 - Mazda6 - Brakes

NO.1 ANY OF THE FOLLOWING LIGHTS DO NOT ILLUMINATE WITH SWITCH THE IGNITION TO ON: (ABS WARNING LIGHT, BRAKE SYSTEM WARNING LIGHT, DSC INDICATOR LIGHT AND/ OR DSC OFF LIGHT) [DYNAMIC STABILITY CONTROL (DSC)]

1	Any of the following lights do not illuminate with switch the ignition to ON: (ABS warning light, brake system warning light, DSC indicator light and/ or DSC OFF light)
POSSIBLE CAUSE	• Instrument cluster power supply fuse malfunction • DSC HU/ CM power supply fuse malfunction • Open circuit in wiring harness between instrument cluster terminal 2V and ignition switch* ¹/ relay block* ² (IG1) • Open circuit in wiring harness between DSC HU/ CM terminal AF and ignition switch* ¹/ relay block* ² (IG1) • Communication error between DSC HU/ CM and instrument cluster • Instrument cluster malfunction • DSC HU/ CM internal malfunction • DSC HU/ CM does not operate. • DSC HU/ CM ground malfunction • Instrument cluster ground malfunction

*1 Without advanced keyless entry and push button start system

*2 With advanced keyless entry and push button start system

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY WHETHER MALFUNCTION IS IN WARNING LIGHT AN INDICATOR LIGHTS COMMON POWER SUPPLY OR IN OTHER WARNING LIGHTS AND INDICATOR LIGHT • Connect the M-MDS to the DLC-2. • Turn on all warning light and indicator lights using the instrument cluster PID WL+IL of active command modes. • Do the other warning and indicator lights illuminate?	YesGo to Step 5. No If communication error message is displayed on M-MDS screen: • Go to the next step. If communication error message is not displayed: • Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)
2	INSPECT INSTRUMENT CLUSTER POWER SUPPLY FUSE • Is the instrument cluster power ignition supply fuse normal?	YesGo to the next step. No Inspect for a short to ground on blown fuse's circuit. Repair or replace if necessary.

			Install the appropriate amperage fuse.
*3	VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN INSTRUMENT CLUSTER POWER SUPPLY AND INSTRUMENT CLUSTER) OR ELSEWHERE - Switch the ignition to ON. - Measure the voltage between instrument cluster terminal 2V (wiring harness-side) and body ground. - Is the voltage approx. 12 V?	Yes Go to the next step.	No Repair or replace the wiring harness for a possible open circuit.
*4	VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN INSTRUMENT CLUSTER AND GROUND FOR CONTINUITY) OR INSTRUMENT CLUSTER - Switch the ignition to off. - Disconnect the instrument cluster connector. - Inspect for continuity between the instrument cluster terminal 2B (wiring harness-side) and body ground. - Is there continuity?	Yes Replace the instrument cluster. (Open circuit in instrument cluster.) (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)	No Repair or replace the wiring harness for a possible open circuit.
5	CONFIRM DSC HU/ CM DTC - Retrieve the DSC HU/CM DTC using the M-MDS. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) - Is there any DTC retrieved?	Yes Go to the applicable DTC troubleshooting procedure. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)] .)	No If communication error message is displayed in M-MDS screen: - Go to the next step. If communication error message is not displayed: - Go to Step 9.
6	INSPECT DSC HU/ CM POWER SUPPLY FUSE Is the DSC HU/CM ignition power supply fuse normal?	Yes Go to the next step.	No Inspect for a short to ground on blown fuse's circuit. Repair or replace if necessary. Install appropriate amperage fuse.
*7	VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN DSC HU/ CM POWER SUPPLY AND DSC HU/ CM FOR CONTINUITY) OR ELSEWHERE - Switch the ignition to ON. - Measure the voltage between DSC HU/CM terminal AF (wiring harness-side) and body ground. - Is the voltage approx. 12 V?	Yes Go to the next step.	No Repair or replace the wiring harness for a possible open circuit.
*8	VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN DSC HU/ CM AND GROUND FOR CONTINUITY) OR ELSEWHERE - Switch the ignition to off. - Disconnect the DSC HU/CM connector. - Inspect for continuity between DSC HU/CM terminal A (wiring harness-side) and body ground. - Is there continuity?	Yes Replace the DSC HU/CM. (Open circuit in DSC HU/CM.) (See DSC HU/ CM REMOVAL/ INSTALLATION .)	No Repair or replace the wiring harness for a possible open circuit.
9	CONFIRM INSTRUMENT CLUSTER DTC Retrieve the instrument cluster DTC using the M-MDS.	Yes Go to the applicable DTC troubleshooting procedure.	

(See [DTC INSPECTION \[INSTRUMENT CLUSTER\]](#).)

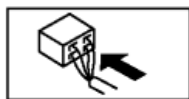
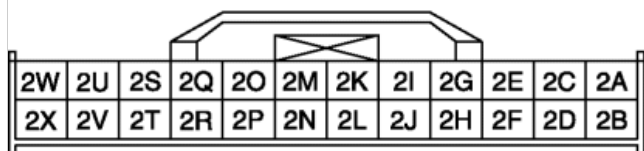
- Is there any DTC retrieved?

(See [ON-BOARD DIAGNOSIS \[DYNAMIC STABILITY CONTROL \(DSC\)\]](#).)

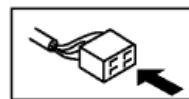
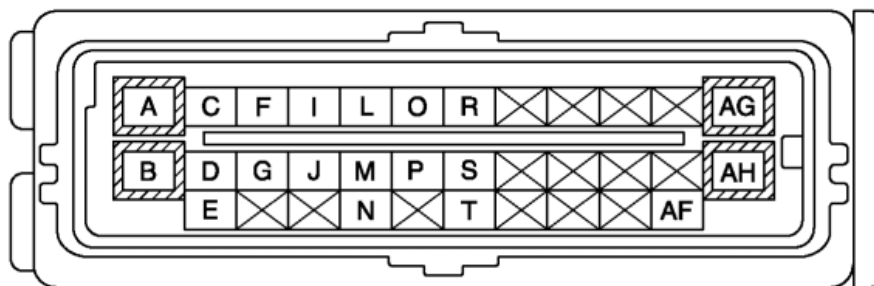
No Replace the instrument cluster.

(See [INSTRUMENT CLUSTER REMOVAL/ INSTALLATION](#).)

INSTRUMENT CLUSTER WIRING HARNESS-SIDE CONNECTOR



DSC HU/CM WIRING HARNESS-SIDE CONNECTOR



- When performing an asterisked (*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged.

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2	INSPECT INSTRUMENT CLUSTER POWER SUPPLY FUSE • Is the instrument cluster power ignition supply fuse normal?	YesGo to the next step. No Inspect for a short to ground on blown fuse's circuit. Repair or replace if necessary.

			Install the appropriate amperage fuse.
*3	VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN INSTRUMENT CLUSTER POWER SUPPLY AND INSTRUMENT CLUSTER) OR ELSEWHERE - Switch the ignition to ON. - Measure the voltage between instrument cluster terminal 2V (wiring harness-side) and body ground. - Is the voltage approx. 12 V?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit.
*4	VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN INSTRUMENT CLUSTER AND GROUND FOR CONTINUITY) OR INSTRUMENT CLUSTER - Switch the ignition to off. - Disconnect the instrument cluster connector. - Inspect for continuity between the instrument cluster terminal 2B (wiring harness-side) and body ground. - Is there continuity?	Yes	Replace the instrument cluster. (Open circuit in instrument cluster.) (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		No	Repair or replace the wiring harness for a possible open circuit.
5	CONFIRM DSC HU/ CM DTC - Retrieve the DSC HU/CM DTC using the M-MDS. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) - Is there any DTC retrieved?	Yes	Go to the applicable DTC troubleshooting procedure. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)] .)
		No	If communication error message is displayed in M-MDS screen: - Go to the next step. If communication error message is not displayed: - Go to Step 9.
6	INSPECT DSC HU/ CM POWER SUPPLY FUSE Is the DSC HU/CM ignition power supply fuse normal?	Yes	Go to the next step.
		No	Inspect for a short to ground on blown fuse’s circuit. Repair or replace if necessary. Install appropriate amperage fuse.
*7	VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN DSC HU/ CM POWER SUPPLY AND DSC HU/ CM FOR CONTINUITY) OR ELSEWHERE - Switch the ignition to ON. - Measure the voltage between DSC HU/CM terminal AF (wiring harness-side) and body ground. - Is the voltage approx. 12 V?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit.
*8	VERIFY WHETHER MALFUNCTION IS IN WIRING HARNESS (BETWEEN DSC HU/ CM AND GROUND FOR CONTINUITY) OR ELSEWHERE - Switch the ignition to off. - Disconnect the DSC HU/CM connector. - Inspect for continuity between DSC HU/CM terminal A (wiring harness-side) and body ground. - Is there continuity?	Yes	Replace the DSC HU/CM. (Open circuit in DSC HU/CM.) (See DSC HU/ CM REMOVAL/ INSTALLATION .)
		No	Repair or replace the wiring harness for a possible open circuit.
9	CONFIRM INSTRUMENT CLUSTER DTC Retrieve the instrument cluster DTC using the M-MDS.	Yes	Go to the applicable DTC troubleshooting procedure.

(See [DTC INSPECTION \[INSTRUMENT CLUSTER\]](#).)

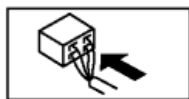
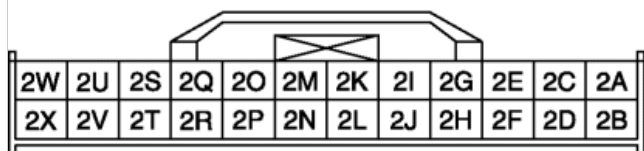
- Is there any DTC retrieved?

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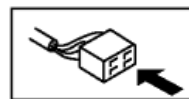
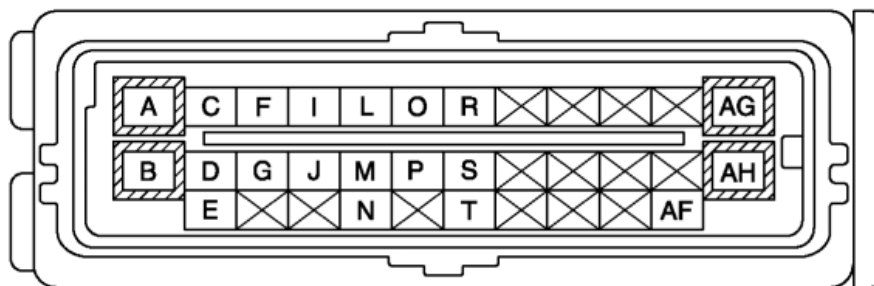
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