

2012 - Mazda6 - Brakes

SYMPTOM TROUBLESHOOTING [DYNAMIC STABILITY CONTROL (DSC)]

- Verify the symptoms and perform troubleshooting according to the appropriate number.

No.	Symptom
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 • DSC OFF light
2	Any of the following lights stay on: • ABS warning light • Brake system warning light • DSC indicator light • DSC OFF light
3	There is a malfunction in the system even though ABS warning light, brake system warning light, DSC indicator light and DSC OFF light do not illuminate
4	ABS or TCS* ¹ operates frequently
	TCS does not work correctly
5	DSC* ² operates frequently
	DSC does not work correctly
6	DSC indicator light flashes (when neither the TCS nor the DSC are operating)

*1

DSC system contains traction control function, DSC indicator light goes on and off while

DSC operates.

*2

DSC indicator light goes on and off while DSC operates.

X: Applied

Troubleshooting item	1	2	3	4	5	6
	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)	Any of the following lights stay on: (ABS warning light, brake system warning light, DSC indicator light and/or DSC OFF light)	There is a malfunction in the system even though ABS warning light, brake system warning light, DSC indicator light and DSC OFF light do not illuminate	ABS or TCS*1 operates frequently/ TCS does not work correctly	DSC*2 operates frequently/ DSC does not work correctly	DSC indicator light flashes (when neither the TCS nor the DSC are operating)
Instrument cluster power supply fuse malfunction	X					
DSC HU/CM power supply fuse malfunction	X					
Open circuit in wiring harness between instrument cluster terminal 2V and ignition switch*1/relay block*2 (IG1)	X					
Open circuit in wiring harness between DSC HU/CM terminal AF and ignition switch*1/relay block*2 (IG1)	X					
DSC HU/CM does not operate	X	X				
Communication error between DSC HU/CM and instrument cluster	X	X				
DSC HU/CM internal malfunction	X	X				
Instrument cluster malfunction	X	X				

Brake fluid amount is low		X				
DSC HU/CM detected malfunction (input and output device malfunction)		X		X	X	
DSC HU/CM detects low voltage in power supply		X				
DSC HU/CM ground malfunction	X	X				
Instrument cluster ground malfunction	X					
No connection at DSC HU/CM connector		X				
Parking brake does not release		X				
Parking brake switch or brake fluid level sensor stuck on		X				
Short to ground in wiring harness between brake fluid level sensor and BCM		X				
Short to ground in wiring harness between parking brake switch and BCM		X				
There is a mechanical malfunction in system			X			
Incorrect ABS wheel-speed signal is inputted to DSC HU/CM				X	X	
There is a difference in size, air pressure or wear conditions between front and rear tires				X	X	
There is a malfunction in engine control system (TCS malfunction)				X		
Poor installation with SAS control module (yaw rate sensor, low-G (XY) sensor) and/or steering angle sensor					X	
DSC HU/CM initial setting has not been performed after replacing DSC HU/CM		X			X	
Steering angle sensor initialization has not been performed after replacing steering angle sensor		X			X	
Non-completion of module configuration		X				X
Communication error between DSC HU/CM and BCM		X				

Communication error between DSC HU/CM and PCM		X				
Low-G (XY) sensor initialization has not been performed after replacing SAS control module		X				
PCM and BCM detect a malfunction		X				
Error input signal from PCM		X				
Improper brake switch signal input to PCM (without malfunction warning light)		X				

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DSC system function contains traction control function, DSC indicator light goes on and off while TCS operates

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DSC HU/CM does not operate	X	X				
Communication error between DSC HU/CM and instrument cluster	X	X				
DSC HU/CM internal malfunction	X	X				
Instrument cluster malfunction	X	X				

Brake fluid amount is low		X				
DSC HU/CM detected malfunction (input and output device malfunction)		X		X	X	
DSC HU/CM detects low voltage in power supply		X				
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There is a mechanical malfunction in system			X			
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DSC HU/CM initial setting has not been performed after replacing DSC HU/CM		X			X	
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