Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

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Subject:	Bulletin No: 08-004/16
M-MDS DATA MONITOR DISPLAYS INCORRECT AIR BAG MODULE RESISTANCE VALUE	Last Issued: 10/12/2016

APPLICABLE MODEL(S)/VINS

2015-2016 Mazda3 (Mexico built) vehicles with VINs between 3MZBM******207073 - 291133 (produced from Apr. 1, 2015 to Mar. 1, 2016)

2017 Mazda3 (Mexico built) vehicles with VINs greater than 3MZBN******100001 (produced after Sept. 1, 2016)

2015-2016 Mazda3 (Japan built) vehicles with VINs between JM1BM******253674 - 355940 (produced from Jan. 5, 2015 to Jun. 23, 2016)

2017 Mazda3 (Japan built) vehicles with VINs lower than JM1BN******103693 (produced before Jul. 29, 2016)

2016 Mazda6 vehicles with VINs lower than JM1GJ******488592 (produced before Jun. 30, 2016)

2017 Mazda6 vehicles with VINs lower than JM1GL******106435 (produced before Jul. 29, 2016)

2016-2017 CX-5 vehicles with VINs lower than JM3KE******851418 (produced before Jul. 29, 2016)

DESCRIPTION

When monitoring the resistance of the air bag modules and pre-tensioner seat belts, the Mazda Modular Diagnostic System (M-MDS) may display a value of only 1/100th of the actual resistance value. This is caused by improper SAS control unit software. To eliminate this from occurring in the future, the SAS control unit software has been modified.

For proper diagnosis, multiply the actual resistance value by 100 (as shown in the example below).

Example Value: 0.022 x 100 = 2.2 ohm.

NOTE: RES_PCD_BAR (detector bar terminals resistance) displays a normal value (as shown in the table below).

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SUBJECT PID:

PID	Unit/ Condition	Data Contents
RES_C_AB_D (Driver-side curtain air bag module resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms
RES_C_AB_P (Passenger-side curtain air bag module resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms
RES_F_AB1_D (Driver-side air bag module (inflator No. 1) resistance nominal)	100 ohm	Continuous: 0.99–6.42 ohms
RES_F_AB1_P (Passenger-side air bag module (inflator No. 1) resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms
RES_F_AB2_D (Driver-side air bag module (inflator No. 2) resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms [US spec. w/TWO-STEP DEPLOYMENT CONTROL SYSTEM]
RES_F_AB2_P (Passenger-side air bag module (inflator No. 2) resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms [US spec. w/TWO-STEP DEPLOYMENT CONTROL SYSTEM]
RES_PCD_BAR (Poorly connected detector bar terminals resistance nominal (all of SAS control module connectors))	ohm	Normal connection: 100 ohms or less Poor connection: 20 K ohms or more
RES_S_AB_D (Driver-side side air bag module resistance nominal)	100 ohm	Continuous: 0.81–9.85 ohms
RES_S_AB_P (Passenger-side side air bag module resistance nominal)	100 ohm	Continuous: 0.81–9.85 ohms
RES_SB_LP_D (Driver-side lap pre-tensioner seat belt resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms [US spec. w/TWO-STEP DEPLOYMENT CONTROL SYSTEM]
RES_SB_LP_P (Passenger-side lap pre-tensioner seat belt resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms [US spec. w/TWO-STEP DEPLOYMENT CONTROL SYSTEM]
RES_SB_P_D (Driver-side pre-tensioner seat belt resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms
RES_SB_P_P (Passenger-side pre-tensioner seat belt resistance nominal)	100 ohm	Continuous: 0.81–6.42 ohms