

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



© 2017 Mazda Motor of America, Inc.

Subject: M-MDS DATA MONITOR DISPLAYS INCORRECT AIR BAG MODULE RESISTANCE VALUE	Bulletin No.: 08-002/17
	Last Issued: 03/01/2017

BULLETIN NOTES

This bulletin supersedes the previously issued bulletin(s) listed below. The changes are noted in Red text.

Previous TSBs:	Date(s) Issued:
08-004/16	10/12/16

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*****851417 (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: $0.022 \times 100 = 2.2$ ohm.

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

CONSUMER NOTICE: The information and instructions in this bulletin are intended for use by skilled technicians. Mazda technicians utilize the proper tools/equipment and take training to correctly and safely maintain Mazda vehicles. These instructions should not be performed by "do-it-yourselfers." Customers should not assume this bulletin applies to their vehicle or that their vehicle will develop the described concern. To determine if the information applies, customers should contact their nearest authorized Mazda dealership. Mazda North American Operations reserves the right to alter the specifications and contents of this bulletin without obligation or advance notice. All rights reserved. No part of this bulletin may be reproduced in any form or by any means, electronic or mechanical--including photocopying and recording and the use of any kind of information storage and retrieval system --without permission in writing.

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