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2018 MAZDA 3 / Axela Hatchback OEM Service and Repair Workshop Manual

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REAR SEAT CUSHION REMOVAL/INSTALLATION

SM2899346

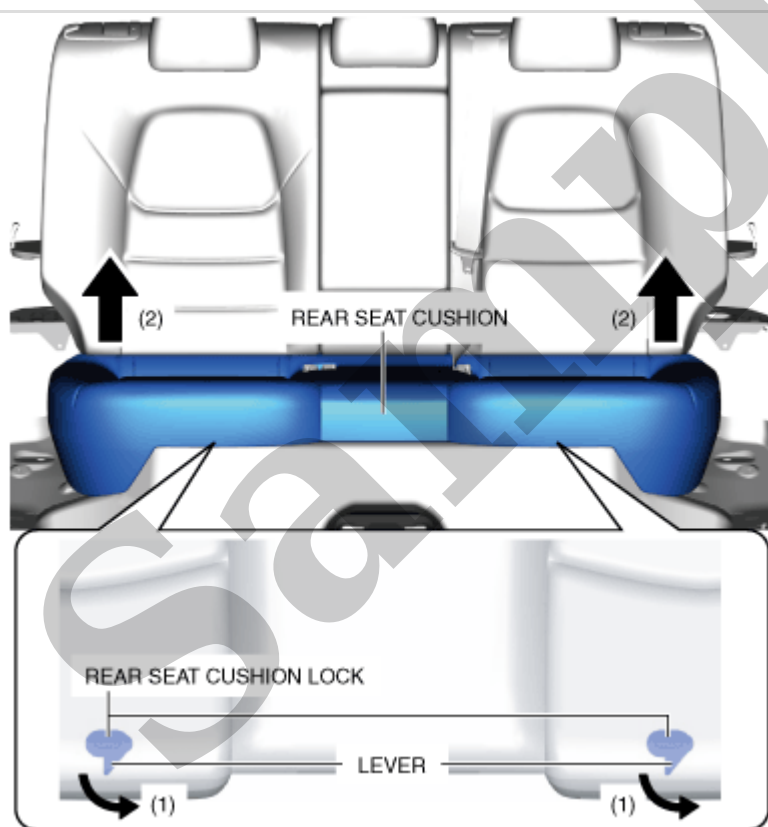
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Caution

- When performing the procedure with a rear seat cushion removed from the vehicle, perform the procedure on a clean cloth so as not to damage or dirty the seat.

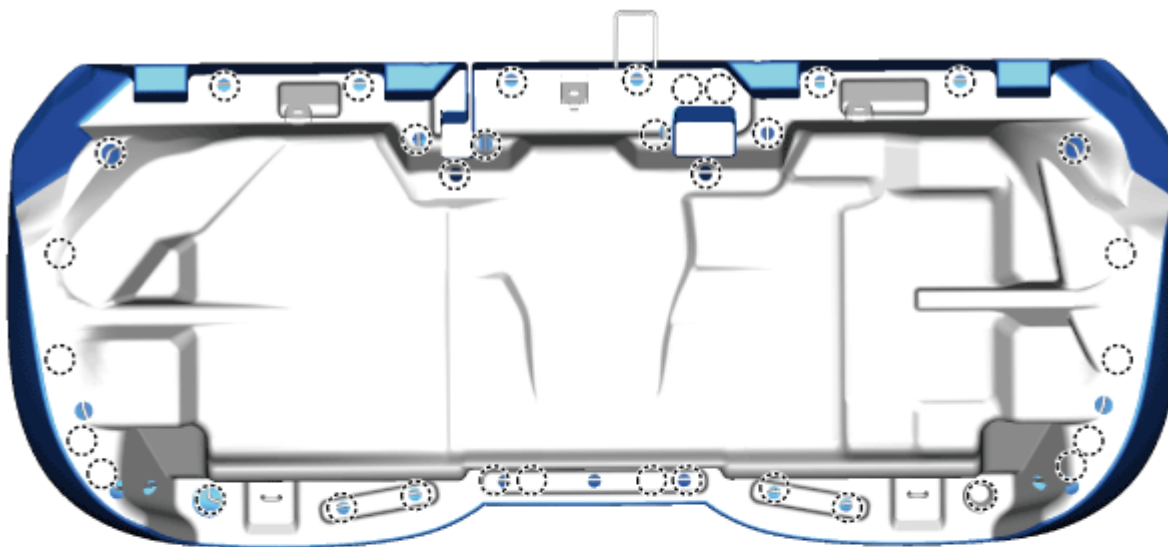
1. Disconnect the negative battery terminal and wait for 1 min or more. (With rear seat warmer system) (See **NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.**)

2. While moving the rear seat cushion lock levers in the direction of arrows (1) shown in the figure, lift up the rear seat cushion in the direction of arrows (2) and detach the rear seat cushion from the rear seat cushion lock.

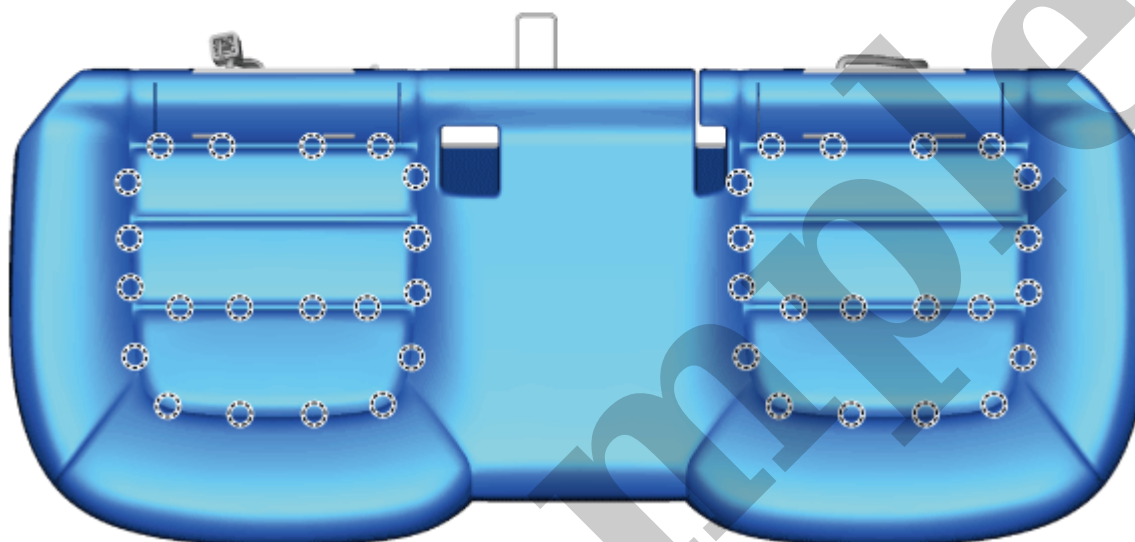


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3. While pulling the rear seat cushion up in the direction of the arrow (1) shown in the figure, move it in the direction of arrow (2) and detach the rear seat cushion from the hook.



○: C-RING



○: C-RING

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Caution

- If a C-ring is damaged while removing or installing the rear seat cushion trim and rear seat cushion pad, it may not be possible to install the rear seat cushion trim and rear seat cushion pad normally. When removing or installing the rear seat cushion trim and rear seat cushion pad, be careful not to damage the C-rings.
- If a C-ring is damaged, replace it with a new one.

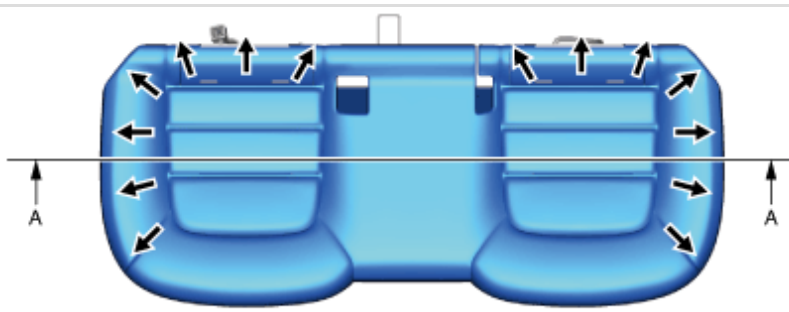
Note

- The position and number of C-rings differ depending on the type of seat.

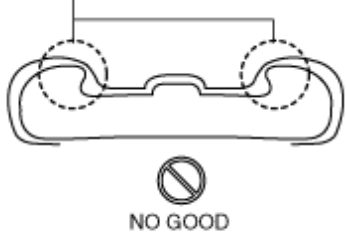
7.Remove the rear seat cushion trim from the rear seat cushion pad.

Installation

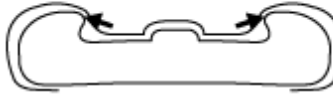
1.Align the rear seat cushion trim with the installation hole of the rear seat cushion pad, and install the C-rings.



FRONT SEAT CUSHION TRIM NOT
ALIGNED WITH SHAPE OF FRONT
SEAT CUSHION PAD



NO GOOD



SEC. A—A



GOOD

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5. Install the rear seat cushion. (See [REAR SEAT CUSHION REMOVAL/INSTALLATION.](#))

FRONT SEAT WARMER SWITCH REMOVAL/INSTALLATION

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Note

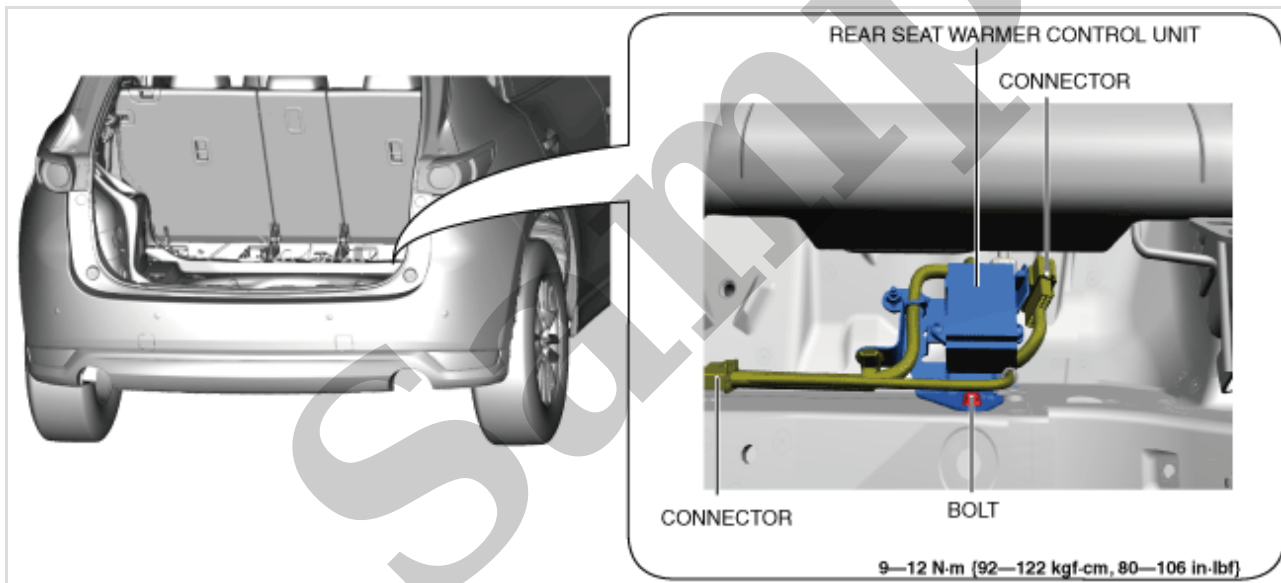
- The front seat warmer switches are integrated into the indicator unit.
- For the front seat warmer switch removal/installation, refer to the indicator unit removal/installation. (See **INDICATOR UNIT REMOVAL/INSTALLATION**.)

REAR SEAT WARMER CONTROL UNIT REMOVAL/INSTALLATION

SM2899317

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1. Disconnect the negative battery terminal and wait for 1 min or more. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
2. Fold the rear seat back.
3. Remove the trunk board. (See [TRUNK BOARD REMOVAL/INSTALLATION.](#))
4. Remove the sub-trunk. (See [SUB-TRUNK REMOVAL/INSTALLATION](#))
5. Disconnect the rear seat warmer control unit connector.



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6. Remove the bolt.
7. Remove the rear seat warmer control unit.
8. Install in the reverse order of removal.

STEP	INSPECTION		ACTION
4	INSPECT THE FRONT SEAT WARMER CONTROL UNIT POWER SUPPLY FUSE - Inspect the SEAT WARM 20 A fuse. - Is the fuse normal?	Yes	Go to the next step.
		No	- If the fuse is deterioration: - Replace the malfunctioning fuse. - If the fuse is blown Repair the short to ground in wiring harness between the following terminals: - SEAT WARM 20 A fuse and front seat warmer control unit terminal D - SEAT WARM 20 A fuse and front seat warmer control unit terminal C
5*	DETERMINE IF CAUSE OF MALFUNCTION IS CONTROLLER POWER SUPPLY WIRING HARNESS FOR FRONT SEAT WARMER OR OTHER CAUSE - Switch the ignition off (LOCK). - Disconnect the front seat warmer control unit connector. - Measure the voltage at the following terminal (wiring harness-side): - Front seat warmer control unit terminal D - Front seat warmer control unit terminal C - Is the voltage B+?	Yes	Go to the next step.
		No	- Repair or replace the open circuit at the following wiring harness. - SEAT WARM 20 A fuse and front seat warmer control unit terminal D - SEAT WARM 20 A fuse and front seat warmer control unit terminal C
6*	VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN FRONT SEAT WARMER CONTROL UNIT POWER SUPPLY WIRING HARNESS - Front seat warmer control unit connector are disconnected. - Switch the ignition ON (engine off or on). - Measure the voltage at the following terminal (wiring harness-side): - Front seat warmer control unit terminal I - Is the voltage B+?	Yes	Go to the next step.
		No	- Repair or replace the open circuit at the following wiring harness. - C/U IG1 15A fuse and front seat warmer control unit terminal I
7*	INSPECT FOR OPEN CIRCUIT IN FRONT SEAT WARMER CONTROL UNIT GROUND CIRCUIT - Front seat warmer control unit connector on the side that is not operating is disconnected. - Inspect for continuity between the following terminals (wiring harness-side): - Front seat warmer control unit terminal on the side that is not operating T and body ground - Front seat warmer control unit terminal on the side that is not operating S and body ground - Is there continuity?	Yes	Go to the next step.
		No	- Inspect the open circuit following. - Front seat warmer unit terminal T and body ground - Front seat warmer unit terminal S and body ground - Inspect the body ground connector terminals for poor connection. - Repair or replace the malfunction.
8*	VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN WIRING HARNESS OF FRONT SEAT WARMER SWITCH SIGNAL - Front seat warmer control unit connector is disconnected. - Inspect for continuity between the following terminals (wiring harness-side): - Front seat warmer control unit terminal F and indicator unit terminal D - Is there continuity?	Yes	Go to the next step.
		No	- Inspect the open circuit following. - Front seat warmer control unit terminal F and indicator unit terminal D

Inspection Procedure (No.1 Rear Seat Warmer Function Is Inoperative)

No.1	Rear seat warmer function is inoperative
DETECTION	Rear seat warmer does not warm seat even though rear seat warmer switch is on
POSSIBLE CAUSE	The power supply is not supplied to filament of rear seat warmer • Open circuit in rear seat warmer control unit power supply circuit: — Rear seat warmer control unit terminal O and battery positive terminal — Rear seat warmer control unit terminal M and battery positive terminal • R.SEAT W 20 A fuse malfunction — Rear seat warmer control unit terminal O and battery positive terminal — Rear seat warmer control unit terminal M and battery positive terminal • Poor connect the connector: — Left-side rear seat warmer unit connector and rear seat warmer control unit connector — Right-side rear seat warmer unit connector and rear seat warmer control unit connector • Open circuit in wiring harness between the following terminal: — Left-side rear seat warmer unit terminal A and driver-side rear seat warmer unit terminal B — Left-side rear seat warmer unit terminal G and passenger-side rear seat warmer unit terminal H Rear seat warmer control unit not operation • Open circuit or short to ground in wiring harness between the following terminal: — Rear seat warmer control unit terminal N and body ground — Rear seat warmer control unit terminal L and body ground Rear seat warmer unit cannot control filament on • Rear seat warmer unit malfunction Rear seat warmer filament does not generate heat • Left-side rear seat warmer unit (seat cushion side) malfunction • Left-side rear seat warmer unit (seat back side) malfunction • Right-side rear seat warmer unit (seat cushion side) malfunction • Right-side rear seat warmer unit (seat back side) malfunction Rear seat warmer control unit cannot receive operation signal • Rear seat warmer control unit malfunction • Open circuit or short to ground in wiring harness between the following terminal: — Rear seat warmer control unit terminal J and rear seat warmer switch terminal C

Diagnostic procedure

STEP	INSPECTION		ACTION
1	PERFORM DTC INSPECTION • Perform instrument cluster DTC inspection. • Are DTCs and error codes output?	Yes	Perform the diagnosis according to the inspection procedure for each code. (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	Go to the next step.
2	DETERMINE IF THE MALFUNCTION CAUSE IS THE REAR SEAT WARMER SWITCH • Select either Low, Mid, or High on the rear seat warmer switch. • Does the rear seat warmer switch LED illuminate?	Yes	Go to the next step.
		No	Inspect rear seat warmer switch. (See REAR SEAT WARMER SWITCH INSPECTION.)
3	DETERMINE MALFUNCTIONING SYSTEM • Does either the left or right rear seat warmer operate?	Yes	Go to step 9.
		No	Go to the next step.

FRONT SEAT WARMER UNIT INSPECTION

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Warning

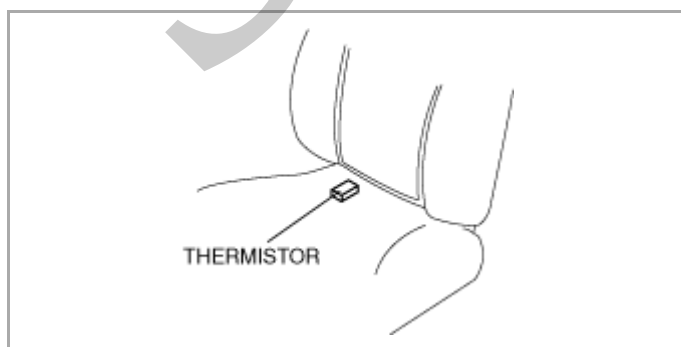
- Handling a side air bag improperly can accidentally operate (deploy) the air bag, which may seriously injure you. Read the service warnings/cautions in the Workshop Manual before handling the front seat (side air bag integrated). (See **AIR BAG SYSTEM SERVICE WARNINGS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.) (See **AIR BAG SYSTEM SERVICE CAUTIONS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.) (See **AIR BAG SYSTEM SERVICE WARNINGS [STANDARD DEPLOYMENT CONTROL SYSTEM - MEXICO SPEC.]**.) (See **AIR BAG SYSTEM SERVICE CAUTIONS [STANDARD DEPLOYMENT CONTROL SYSTEM - MEXICO SPEC.]**.)
- If the sliding mechanisms on both sides are not locked after assembling the front seat, the front seat will operate accidentally while the vehicle is driven, which could result in serious injury. After assembling the front seat, shake it up and down and verify that the sliding mechanism on the both sides are locked.

Caution

- If the slide lever is operated after the front seat is removed, the left/right slide positions will deviate and the adjuster unit could be damaged after the front seat is installed. After removing a front seat, do not operate the slide lever.
- Verify that there are no malfunctions in the forward/back slide of the seat and in the adjuster unit after installing a front seat.
- When performing the procedure with a front seat removed from the vehicle, perform the procedure on a clean cloth so as not to damage or soil the seat.
- When the passenger's seat is removed, perform the occupant classification sensor inspection using the M-MDS after installing the passenger's seat. (See **OCCUPANT CLASSIFICATION SENSOR INSPECTION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.)
- When the passenger's seat is replaced with a new one, perform the occupant classification sensor calibration using the M-MDS. (See **OCCUPANT CLASSIFICATION SENSOR CALIBRATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.)

Simple Inspection

1. Place a cooling agent on the seat cushion (thermistor).



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2. Operate the seat warmer switch to turn on the seat warmer.
3. Touch the seat cushion and the seat back to verify a temperature increase.

 :CONTINUITY		
STATUS	TERMINAL	
	A	B
UNDER ANY CONDITION		

am6zzw00007566

— If not as specified, replace the front seat back pad. (See [FRONT SEAT BACK TRIM REMOVAL/INSTALLATION](#).)

Sample