

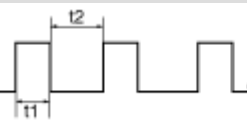


Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

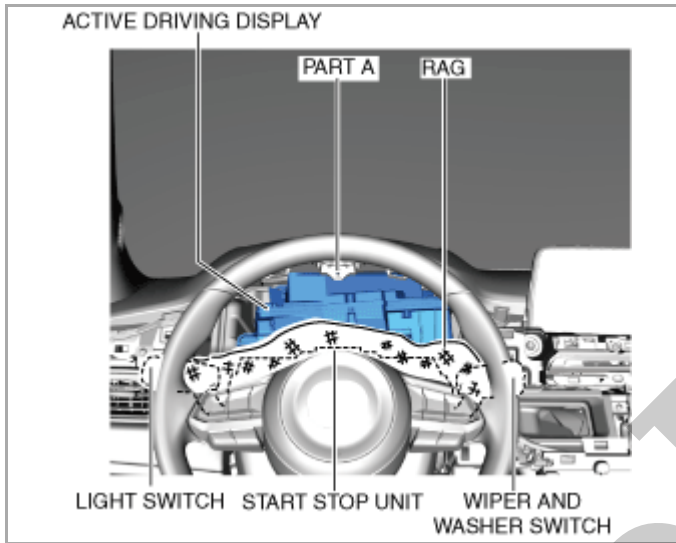
2019 Mazda CX-9 Service and Repair Manual

[Go to manual page](#)

Rear sensor	Short distance	Approx. 0–35 cm {13 in}	ON ————— CONTINUOUS ————— OFF
	Intermediate distance	Approx. 35–45 cm {14–17 in}	ON  OFF t1 : Approx 0.055-0.095 s
	Long distance	Approx. 45–60 cm {18–23 in}	ON  OFF t1 : Approx 0.120-0.180 s
	Maximum long distance	Approx. 60–150 cm {24.0–59.0 in}	ON  OFF t1 : Approx 0.120-0.180 s t2 : Approx 0.520-0.780 s

Caution

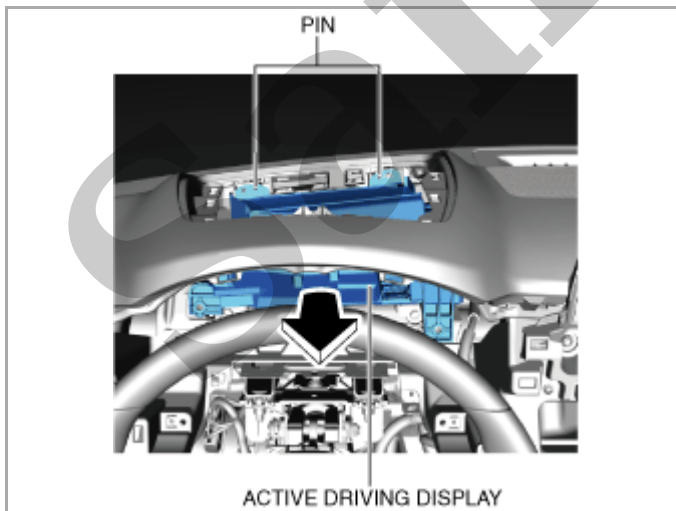
- When removing the active driving display, the active driving display may contact the light switch, wiper switch, or the start stop unit and the active driving display may be scratched. When removing the active driving display, cover the light switch, wiper and washer switch, and start stop unit using a rag.
- When removing the active driving display, it contacts the part A shown in the figure which may scratch or damage the active driving display. When removing the active driving display, wrap the part A shown in the figure with cloth.



ac5uuw00007208

5.To prevent scratches or damage, cover the light switch, wiper and washer switch, and the start stop unit with cloth, and wrap the part A shown in the figure with cloth.

6.Pull the active driving display outward to detach it from the dashboard pins.



ac5uuw00007209

7.Remove the active driving display by sliding it between the dashboard and the steering.

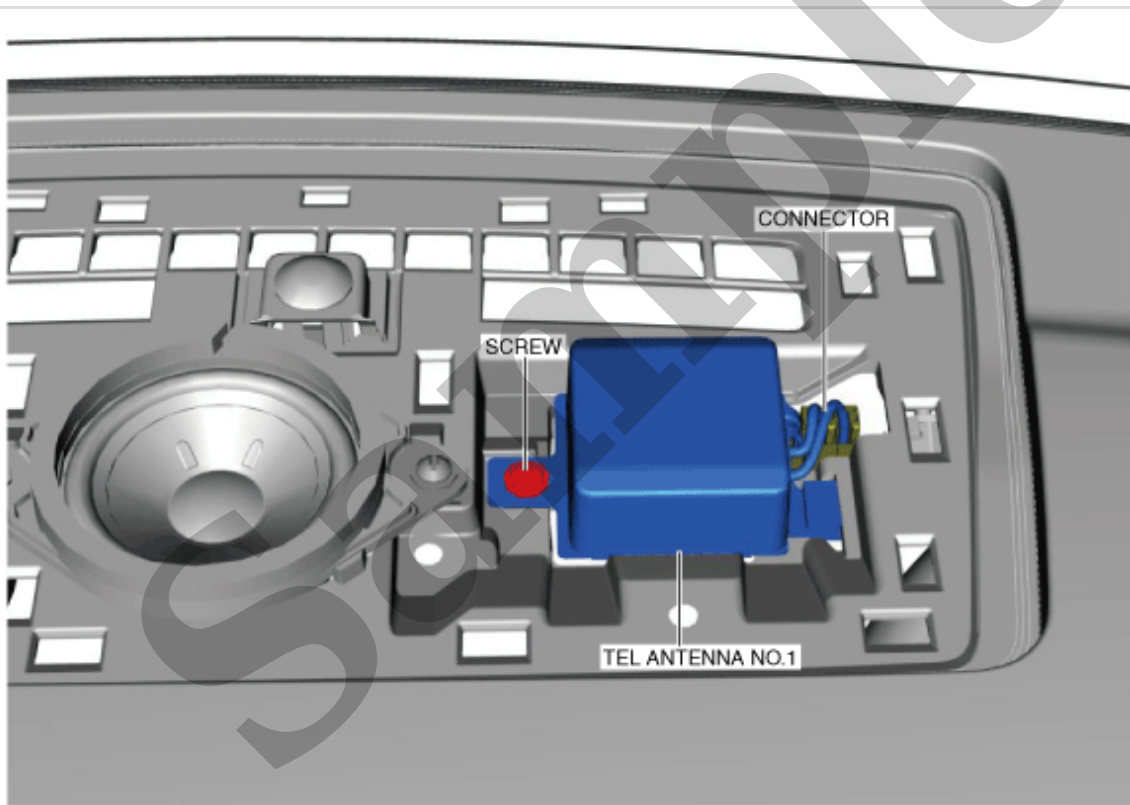
TEL ANTENNA REMOVAL/INSTALLATION

SM2899694

id09220070270

TEL Antenna No.1

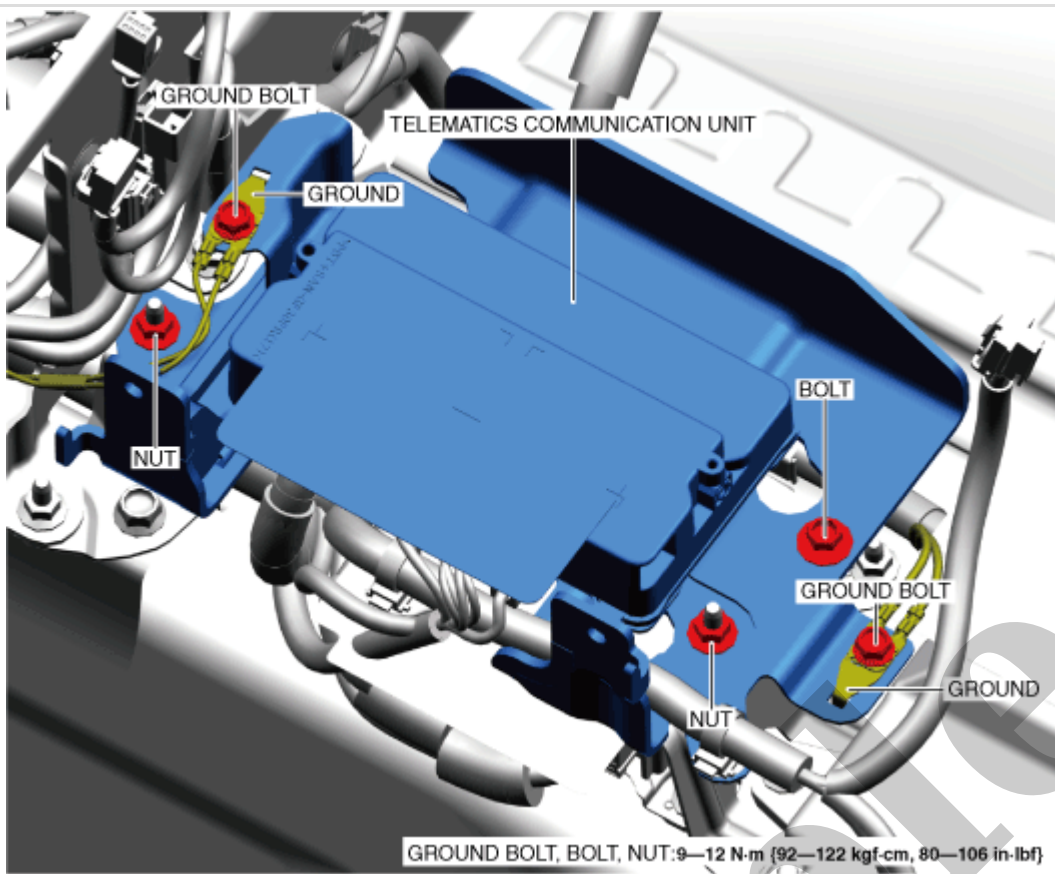
- 1.Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
- 2.Remove the center speaker grille. (See [SPEAKER GRILLE REMOVAL/INSTALLATION.](#))
- 3.Remove the screw.



ac5uuw00011852

- 4.Disconnect the connector.
- 5.Remove the TEL antenna No.1.
- 6.Install in the reverse order of removal.

TEL Antenna No.2



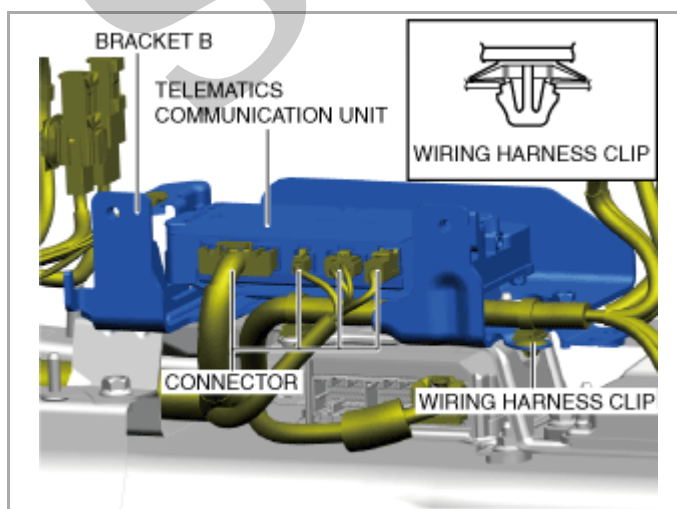
ac5uuw00011937

6.Remove the ground.

7.Remove the bolt.

8.Remove the nuts.

9.Remove the wiring harness clip.



ac5uuw00011327

10.Disconnect the connectors.

TELEMATICS COMMUNICATION UNIT INITIAL SETTING

SM2899698

id09220070860

- 1.Connect the M-MDS to the DLC-2.
- 2.Switch the ignition ON (engine off).
- 3.Activate the M-MDS and perform the following procedure.
 - (1)Press [Start] to start the vehicle identification.
 - (2)Press the [Toolbox] tab.
 - (3)Press the [Work Support] icon.
 - (4)Press [Mazda Connect].
 - (5)Press [Run] for [Activating TCU].
- 4.Perform [Activating TCU] according to the directions on the M-MDS screen.

ACTIVE AIR SHUTTER LOCATION INDEX

SM2899700

id09230000040



ac5uuw00007424

1	Active air shutter (See ACTIE AIR SUTTER REMO ALINS TALLATION.) (See ACTIE AIR SUTTER INSPE CTION.)
---	---

FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION

SM2899703

id09400000190

Caution

- If configuration is not performed when the front body control module (FBCM) is replaced with a new one, the vehicle specification information is not stored in the front body control module (FBCM) and the system will not operate normally.
- When performing configuration, it is necessary to read the vehicle specification information from the front body control module (FBCM) before replacing it. Connect the M-MDS to the vehicle and perform vehicle identification before removing the front body control module (FBCM). The vehicle specification information is temporarily stored in the M-MDS.

Note

- The front body control module (FBCM) prior to replacement stores the vehicle specification information.
- A new front body control module (FBCM) does not store any vehicle specification information.
- If the vehicle specification information from the front body control module (FBCM) prior to replacement cannot be read, perform the configuration using As-Built data.

1. When replacing the front body control module (FBCM), perform the configuration. (See **FRONT BODY CONTROL MODULE (FBCM) CONFIGURATION (USING READ/WRITE FUNCTION)**.)

2. Verify if the following Mazda genuine accessories are installed.

- Rear Seat Monitor
- CD/DVD Deck

Caution

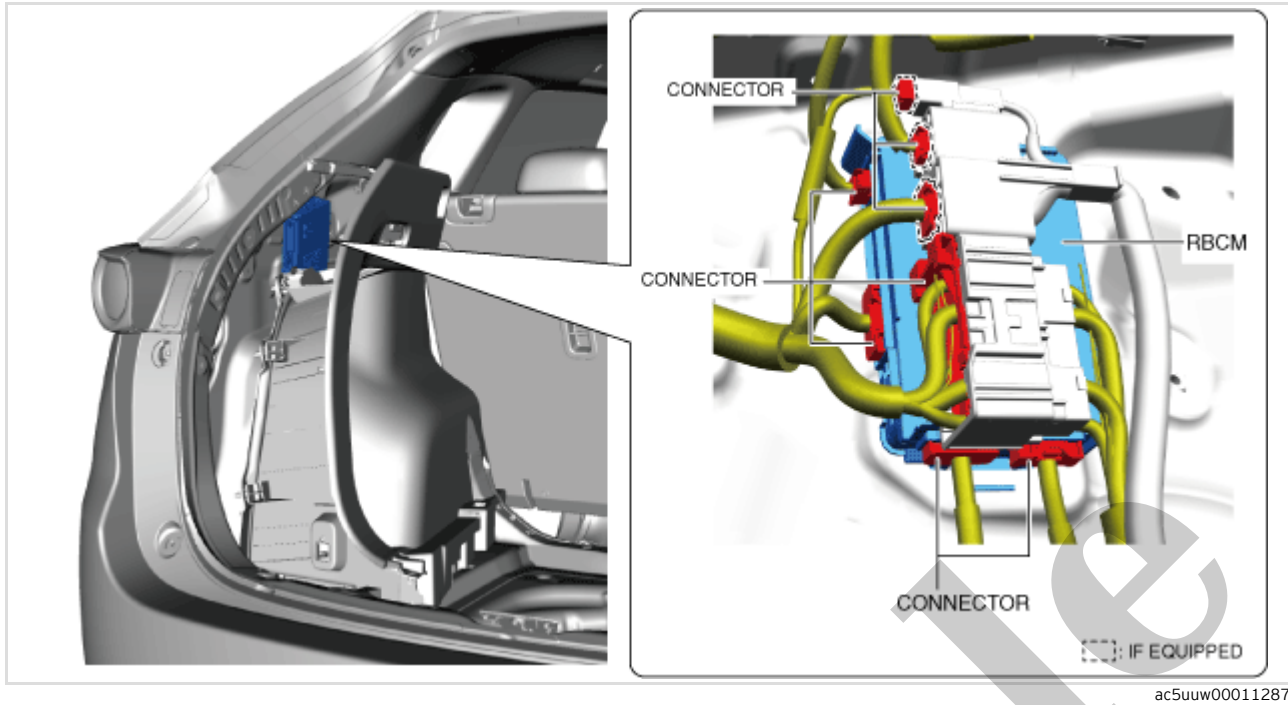
- If the front body control module (FBCM) is replaced, Mazda genuine accessories stop functioning. If the front body control module (FBCM) is replaced, perform the accessory activation.

3. Disconnect the negative battery terminal. (See **NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION**.)

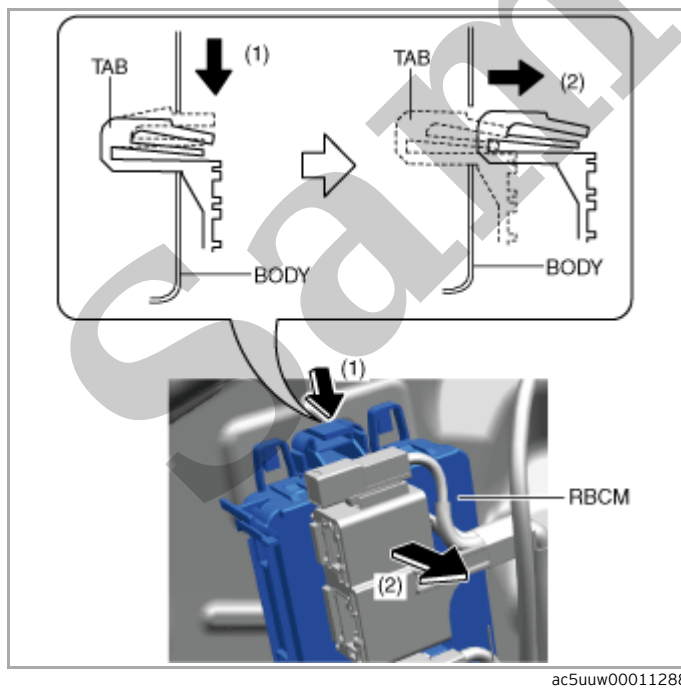
4. Remove the fuse box cover. (See **RELAY AND FUSE BLOCK REMOVAL/INSTALLATION**.)

5. Insert a tape-wrapped flathead screwdriver into the position shown in the figure.

6. Disconnect the connectors shown in the figure.



7. While pressing the rear body control module (RBCM) tab in the direction of arrow (1) shown in the figure, pull it in the direction of arrow (2) to detach the tab from the body.



8. Pull the rear body control module (RBCM) up in the direction of the arrow to detach the hook from the body.

Terminal	Signal	Connected to	Measurement conditions		Voltage (V)	Inspection item(s)
1B	Power supply	HAZARD 25 A fuse	Under any condition		B+	• HAZARD 25 A fuse • Related wiring harness
1C	Ignition power supply	<ul style="list-style-type: none"> • Climate control unit • Rear seat warmer control unit • A/C relay 	Ignition switched ON (engine off)		B+	• Climate control unit • Rear seat warmer control unit
			Ignition switched OFF (LOCK)		1.0 or less	• A/C relay • Related wiring harness
1D	Signal ground	Body ground	Under any condition		1.0 or less	• Related wiring harness
1E	Rear turn light (RH) control	Rear turn light (RH)	Ignition switched ON (engine off)	Turn switch at right turn light position	1.0 or less ⇔ B+	• Rear turn light (RH)
				Turn switch is in position other than above	1.0 or less	• Related wiring harness
1F	Side turn light (RH) control	Side turn light (RH)	Ignition switched ON (engine off)	Turn switch at right turn light position	1.0 or less ⇔ B+	• Side turn light (RH)
				Turn switch is in position other than above	1.0 or less	• Related wiring harness
1G	Front turn light (RH) control	Front turn light (RH)	Ignition switched ON (engine off)	Turn switch at right turn light position	1.0 or less ⇔ B+	• Front turn light (RH)
				Turn switch is in position other than above	1.0 or less	• Related wiring harness
1H	—	—	—		—	—
1I	TNS relay control	<ul style="list-style-type: none"> • TNS relay • Rear combination light (LH, RH) • License plate light (LH, RH) 	Light switch at TNS position		B+	• TNS relay • Rear combination light (LH, RH)
			Light switch at OFF position		1.0 or less	• License plate light (LH, RH) • Related wiring harness
1J	—	—	—		—	—
1K	—	—	—		—	—
1L	Horn relay control	Horn relay	Horn switch not pressed		B+	• Horn relay
			Horn switch pressed		1.0 or less	• Related wiring harness
1M	Headlight relay (LO) control	Headlight LO relay No.2	Ignition switched ON (engine off)	Light switch at HEAD position	1.0 or less	• Headlight LO relay No.2
				Light switch is in position other than above	B+	• Related wiring harness
1N	—	—	—		—	—
1O *1	Theft-deterrent horn input signal	Rear body control module (RBCM)	M-MDS is connected and theft-deterrent is sounded using data monitor function		1.0 or less	• Rear body control module (RBCM)
			M-MDS is connected and theft-deterrent is not sounded using data monitor function		B+	• Related wiring harness
1P	Rear window defogger relay control	Rear window defogger relay	Ignition switched ON (engine off)	Rear window defogger switch OFF	B+	• Rear window defogger relay
				Rear window defogger switch ON	1.0 or less	• Related wiring harness
1Q	—	—	—		—	—