



TECH TALK - VOLUME 289 NOVEMBER/DECEMBER 2025

TECHNICAL INFORMATION: ETACS CODING INCOMPLETE

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UPCOMING HOLIDAYS:

**Thanksgiving -
November 27-28**

**Winter Shutdown -
December 24-31, 2026
& January 1, 2026**



REMINDER:

The 4th Quarter Technician Quiz for 2025 (TQ042025) will be available October 1, 2025 - December 31, 2025.

Dealer personnel must *successfully complete this quiz by no later than: December 31, 2025.*



DEALER TECHNICIANS:

We'd like to hear from you!

Please submit tips and suggestions for future Tech Talk articles to:
servicesupport@mmsa.com



AFFECTED VEHICLES:

- 2007-2020 Outlander
- 2011-2026 Outlander Sport
- 2009-2017 Lancer
- 2018-2026 Eclipse Cross

GROUP: 54

CONCERN:

A no start condition with DTCs B2204 (Coding data mismatch), B222C (Coding incomplete), and U1197 (Coding data unavailable) or other DTCs after battery discharge or replacement.

Before attempting to program keys or replace the ETACS, technicians should try to variant code the ETACS. If the ETACS has been replaced or the technician cannot generate a variant code with the new ETACS part number, the technician should use the old part number. The ETACS part number can be found on the face of the ETACS.

Instructions for coding is located on MDL: Service > service tech resources > tech training. Videos regarding download coding and coding can be found on the left side of the page. The coding file must be available in the scan tool: Windows (C), MUTSW_SE, MUT3_SE, CdgData folder.



REPAIR INFO: Introduction to End-Lock Phenomenon in Seatbelt Systems

A customer reported that the seatbelt webbing was stuck and could not be extracted. Following an inspection by the dealer, the seatbelt assembly was replaced. Further investigation of the replaced parts revealed that the issue was the result of a condition known as end-lock.

This article briefly introduces the end-lock condition to support quicker customer response and help prevent unnecessary part replacements.

Affected Models

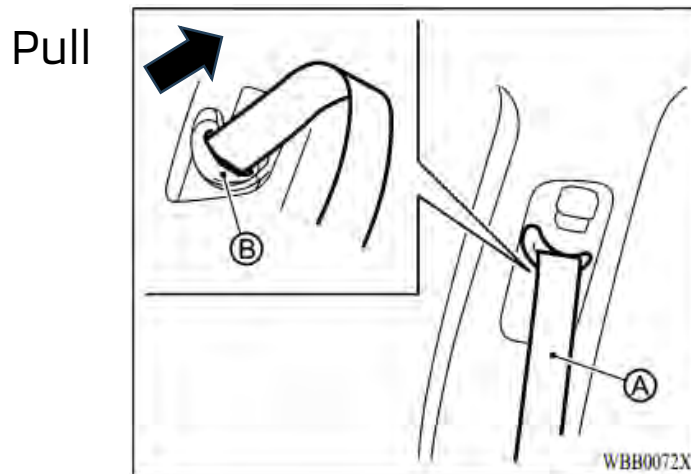
All vehicles equipped with seatbelts featuring an Emergency Locking Retractor (ELR)

What is End-Lock?

End-lock is a condition where the seatbelt webbing cannot be extracted from a fully retracted position due to locking. This may occur when the seatbelt webbing retracts forcefully to the stowed position. If end-lock occurs, please follow the steps above to release it.

How to Release End-Lock

1. Firmly grasp the seatbelt buckle.
2. Pull the seatbelt webbing out with approximately 5-10 kgf force from the locked position, then allow it to retract once.



3. If the seatbelt can be pulled out again, the end-lock has been released.
4. If not, repeat the process.

GENERAL INFO: How to Remove 12V Battery Terminals on Vehicles with Auto ACC

In vehicles that are equipped with the Auto ACC function, some ECUs may remain active for a short time after the ignition is turned off, even if the 12V battery is depleted (Ready-ON or engine start not possible).

If the battery terminals are disconnected before these ECUs have fully shut down, it may result in DTC detection or ECU data corruption.

Therefore, it is essential to follow the workshop manual procedures to prevent ECU damage. This article reminds you of the correct battery disconnection procedure.

Affected Models

All vehicles equipped with the Auto ACC function:

2022-2025 OUTLANDER (GM0W)

2023-2025 OUTLANDER PLUG-IN HYBRID (GN0W)

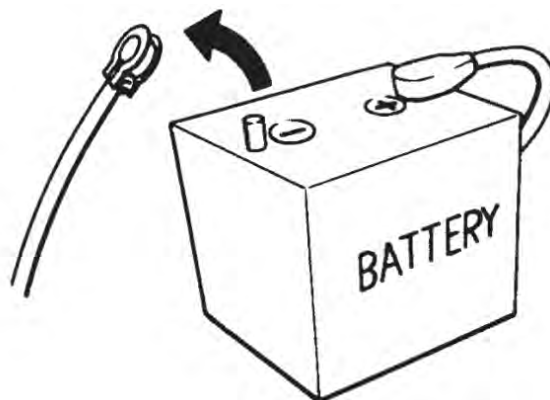
Work Procedure (Summary of the workshop manual):

OUTLANDER (GM0W)

1) Working procedure

- ① Open the hood (until completed the procedure)
- ② Turn ignition switch to the ON position
- ③ Turn ignition switch to the OFF position with the driver side door opened
- ④ Exit the vehicle and close the driver side door
- ⑤ Wait at least **3 minutes**
- ⑥ Remove 12V battery terminal

CAUTION: After step ⑤ do not perform vehicle operations such as door lock or door open/close while waiting, because automatic ACC function turns accessory power supply to ON.



OUTLANDER PLUG-IN HYBRID (GNOW)

1) Working procedure

- ① Disconnect the charging connector
- ② Change the power supply mode of the electric motor switch to OFF
- ③ Open both the hood and tailgate (until the procedure is completed)
- ④ Press the electric motor switch once to turn power supply mode to ON
- ⑤ Press and hold the electric motor switch again for at least five seconds
- ⑥ Close the driver door and wait for at least **5 minutes**
- ⑦ Make sure combination meter is turned OFF and that the P indicator of the parking brake switch is turned OFF
- ⑧ Remove 12V battery terminal

CAUTION: After step ⑥, do not perform vehicle operations such as door lock or door open/close while waiting, because automatic ACC function turns accessory power supply ON.

2) Special notes:

If 12V battery terminal is removed, the control timer which operates the engine will be reset. If the engine does not start for prolonged period after the reset, the fuel injection system may become clogged. To avoid this, press the battery charging switch to start the engine.

PRECAUTIONS: Calibration Data Writing Procedure When Replacing TCM

For the OUTLANDER (GM0W), when the TCM (CVT-ECU) is replaced, it is essential to save the calibration data from the original ECU and write it to the new ECU. If the original ECU is damaged and the calibration data cannot be saved, the appropriate calibration data for the vehicle must be obtained via DXA and written to the new ECU. In this case, the existing work procedure does not include all the necessary steps for completing the data writing process. To support successful execution, this article outlines the full procedure. A revision of the service manual is currently under review.

Affected Model

2022-2025 OUTLANDER (GM0W)

Necessary Work When TCM is Replaced

Before TCM replacement

- Calibration data (IP characteristics value) saving

After TCM replacement

- TCM programming
- MAC key writing
- Calibration data (IP characteristics value) writing
- Clutch point learning
- Select learning (Drive/Reverse learning)
- G sensor calibration

Work Procedure for Calibration Data Writing

Case 1: Saving calibration data from the original ECU and writing it to the new ECU Please refer to the "ADDITIONAL SERVICE WHEN REPLACING TCM".

1. Verify vehicle is in "Park" (P), then the ignition switch is OFF and wait for 10 seconds.
2. The ignition switch is ON.
3. Select "Special Function" in "TRANSMISSION".
4. Select "WRITE IP CHARA - REPLACEMENT TCM" of "IP characteristics data writing".
5. Touch "OK".

Case 2: Writing calibration data obtained via DXA to the new ECU

Please refer to the "ADDITIONAL SERVICE WHEN REPLACING TCM AND TRANSAXLE ASSEMBLY".

1. The ignition switch is ON, engine OFF.
2. Press the brake pedal.
3. Depress the throttle pedal half way and hold, then press "OK" on the M.U.T.-III SE screen.
4. Write data to the TCM according to the instructions on the M.U.T.-III SE screen.



TSB/TIN/ATIN/SC/SR REVIEW

Since Tech Talk 288, the following bulletins have been published:

PUBLISH DATE	TSB/ATIN/TIN #	SUBJECT	MODELS
9/24/2025	TSB-25-34-001REV	REAR SHOCK ABSORBER FLUID LEAK - REVISED	2022-2023 OUTLANDER AND 2023 OUTLANDER PLUG-IN HYBRID
	TIN-25-54-007	SDA2 REMANUFACTURED UNITS FOR 8740A076ER AND 8740A098ER	2020 OUTLANDER, CERTAIN 2020-2022 OUTLANDER PLUG-IN HYBRID AND CERTAIN 2020-2022 OUTLANDER SPORT
9/26/2025	TSB-25-00-014	NEW MODEL FEATURES AND SERVICE INFORMATION - 2026 OUTLANDER SPORT	2026 OUTLANDER SPORT
	TSB-25-00-015	TECHNICAL SPECIFICATIONS - 2026 OUTLANDER SPORT	2026 OUTLANDER SPORT
10/1/2025	SR-25-002	LIFTGATE GAS SPRING CYLINDER CORROSION - SAFETY RECALL CAMPAIGN	CERTAIN 2014-2020 OUTLANDER AND 2018-2022 OUTLANDER PLUG-IN HYBRID
	TIN-25-SR-002	LIFTGATE GAS SPRING CYLINDER CORROSION - SAFETY RECALL CAMPAIGN	CERTAIN 2014-2020 OUTLANDER AND 2018-2022 OUTLANDER PLUG-IN HYBRID
10/6/2025	TIN-25-SR-002A	LIFTGATE GAS SPRINGS INOPERATIVE	2014-2020 OUTLANDER AND 2018-2022 OUTLANDER PLUG-IN HYBRID
10/8/2025	TIN-25-SR-002A	LIFTGATE GAS SPRINGS INOPERATIVE	2014-2020 OUTLANDER AND 2018-2022 OUTLANDER PLUG-IN HYBRID
	TIN-25-65-008	2026 ECLIPSE CROSS UNABLE TO PAIR WITH MY MITSUBISHI CONNECT APP	2026 ECLIPSE CROSS
10/10/2025	TSB-24-35-001	NOISE FROM BRAKE CALIPER WHEN BRAKING OR CORNERING	2022-2024 OUTLANDER
10/17/2025	TIN-25-00-012	MUT3-SE SYSTEM MAINTENANCE	2022-2025 OUTLANDER AND 2023-2026 OUTLANDER PLUG-IN HYBRID
	TIN-25-54-008	2026 ECLIPSE CROSS UNABLE TO PAIR WITH MY MITSUBISHI CONNECT APP	2026 ECLIPSE CROSS
11/4/2025	TIN-25-27-001	ABNORMAL NOISE/VIBRATION FROM REAR DIFFERENTIAL ASSEMBLY	CERTAIN 2024 OUTLANDER AND ALL 2025 OUTLANDER
11/10/2025	TSB-25-00-006	TECHNICAL SPECIFICATIONS - 2026 OUTLANDER	2026 OUTLANDER
	TIN-25-00-013	PUERTO RICO TRAFFIC SAFETY COMMISSION LETTERHEAD - TAKATA RECALLS	2004-2007 LANDER, 2006-2009 RAIDER, AND 2012-2017 i-MiEV
	TIN-25-11-001	CYLINDER HEAD WARPAGE	ALL

IMPORTANT

Affected new or used vehicle inventory must be repaired before the vehicle is sold or delivered. Dealers must check their vehicle inventory VINs on the Warranty Superscreen to verify whether the vehicle is involved in a recall campaign.

It is a violation of Federal Law for a dealer to sell or deliver a new motor vehicle or any new / used motor vehicle equipment (including a tire) covered by the notification under a sale or lease until the defect or non-compliance is remedied.





TECHNICAL TRAINING COURSE SCHEDULE

Atlanta Technical Training Center - Southeast Region
 801 Interstate West Parkway, Lithia Spring, GA 30122
 (770) 732-3000 Airport: Atlanta (ATL)

October '25				
Monday	Tuesday	Wednesday	Thursday	Friday
29	30	1	2	3
6	7	8	9	10
MED4 V-ILT				STV4 V-ILT
13	14	15	16	17
20	21	22	23	24
27	28	29	30	31
PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT

November '25				
Monday	Tuesday	Wednesday	Thursday	Friday
27	28	29	30	31
PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT
3	4	5	6	7
10	11	12	13	14
ADAS	ADAS	ADAS	CES	CES
17	18	19	20	21
ERCS	ERCS	ERCS	ERCS	ERCS
24	25	26	27	28

December '25				
Monday	Tuesday	Wednesday	Thursday	Friday
1	2	3	4	5
MED4 V-ILT	STV4 V-ILT	EL1	EL1	
8	9	10	11	12
15	16	17	18	19
PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT
22	23	24	25	26
SMI V-ILT	CVT V-ILT			
29	30	31		

New Jersey Technical Training Center - Northeast Region
 516 Heron Drive, Swedesboro NJ 08085
 (856) 467-7100 Airport: Philadelphia (PHL)

October '25				
Monday	Tuesday	Wednesday	Thursday	Friday
29	30	1	2	3
PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT
6	7	8	9	10
13	14	15	16	17
20	21	22	23	24
27	28	29	30	31
BCS	BCS	CES	CES	

November '25				
Monday	Tuesday	Wednesday	Thursday	Friday
27	28	29	30	31
BCS	BCS	CES	CES	
3	4	5	6	7
SMI V-ILT	MED4 V-ILT	STV4 V-ILT	EL1 V-ILT	EL1 V-ILT
10	11	12	13	14
17	18	19	20	21
PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT	PHEVG2TT V-ILT
24	25	26	27	28

December '25				
Monday	Tuesday	Wednesday	Thursday	Friday
1	2	3	4	5
ER1	ER1	ER1	ER1	CVT F2F
8	9	10	11	12
ERCS	ERCS	ERCS	ERCS	
15	16	17	18	19
22	23	24	25	26
SMI V-ILT	CVT V-ILT			
29	30	31		

Franklin Technical Training Center
 1552 Columbia Avenue, Franklin TN 37064
 (657) 238-2891 Airport: Nashville (BNA)

October '25				
Monday	Tuesday	Wednesday	Thursday	Friday
29	30	1	2	3
6	7	8	9	10
MED4 V-ILT	STV4 V-ILT	EL1 V-ILT	EL1 V-ILT	
13	14	15	16	17
20	21	22	23	24
27	28	29	30	31

November '25				
Monday	Tuesday	Wednesday	Thursday	Friday
27	28	29	30	31
3	4	5	6	7
10	11	12	13	14
17	18	19	20	21
24	25	26	27	28

December '25				
Monday	Tuesday	Wednesday	Thursday	Friday
1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
29	30	31		

Course Title	Days	Code	Prerequisites
Engine & Emission Control Systems	4	EECS	ES1W, EL1, STV4, MED4, ME3W
Engine Repair	3	ER1	ES1W, EL1, STV4, MED4, ME3W
Climate Control	2	CC1	ES1W, EL1, STV4, MED4, ME3W
Plug-In Hybrid Electric Vehicle (Virtual) or (F2F)	2	PHEVG2TT	EL1, STV4, MED4, DGPHEVWT
MEDIC4 (Virtual) or (F2F)	1	MED4	ME3W
STV4 (Virtual) or (F2F)	1	STV4	No Prerequisites
Electrical Systems I (Virtual) or (F2F)	2	EL1	ES1W
Advanced Driver Assistance Systems	2	ADAS	ES1W, EL1, STV4, MED4, ME3W
Chassis Electrical Systems	2	CES	EL1, STV4, MED4, ME3W, ES1W
CVT OVERHAUL PROCEDURES (Virtual) or (F2F)	1	CVT	STV4, MED4, EL1, ATFW
Brake Control System	2	BCS	MED4, STV4, EL1
Service Manual Introduction (Virtual) or (F2F)	1	SMI	MED4, STV4, EL1

Classes shaded in Green are [V-ILT] Virtual Instructor Led Training

MMNA technical on site training is not shaded

CVT, SMI, PHEVG2TT, MEDIC4, STV4, and EL1 will be offered in two training formats.

1. V-ILT online instructor-led.
2. F2F In center training.



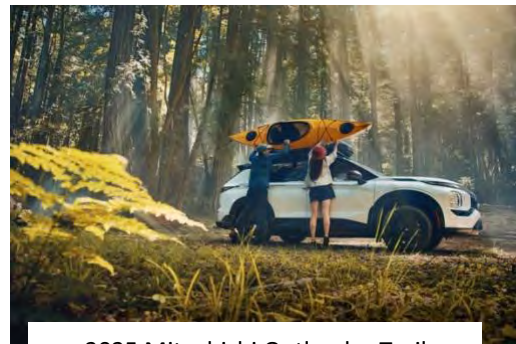
MITSUBISHI MOTORS REPORTS Q3 2025 SALES

FRANKLIN, Tenn., Oct. 1, 2025 – [Mitsubishi Motors North America, Inc.](http://www.mitsubishicars.com) (MMNA) today reported third-quarter 2025 sales of 19,647, driving the brand's year-to-date total sales to 73,400, the second-best year-to-date (YTD) performance in four years.

The brand's electrified flagship, Outlander Plug-in Hybrid, set a quarterly sales record of 2,403, up 5.4% year-over-year (YOY). During the quarter, September alone represented the second-best month in the history of the nameplate, building off a strong August that is now the third-best month ever. YTD sales of Outlander Plug-in Hybrid were also up, totaling 5,841, an increase of 5.9% over 2024.

The recently redesigned Outlander, refreshed and updated with a new interior and a North American industry-first Yamaha-branded audio system, continued to be MMNA's volume leader with 7,323 sales for the quarter. An all-new Trail Edition package also debuted this quarter, showcasing the brand's storied off-highway and adventure history.

Other bright spots this quarter included Eclipse Cross with 4,077 sales for the quarter and 12,342 YTD, up 21.2% over last year, and Outlander Sport with 3,080 quarterly sales and 14,958 YTD, an increase of 27.8% over 2024.



2025 Mitsubishi Outlander Trail Edition

Third quarter YOY sales performance was impacted primarily by the discontinuation of the Mirage and Mirage G4 models. Looking forward, Mitsubishi Motors' core SUV lineup is forecasted to deliver YOY increases, with full-year 2025 SUV sales surpassing those of 2024. This strategic pivot begins today with the launch of MMNA's Year-End Sales Event, offering 0% APR financing for 60 months on all new 2025 Mitsubishi SUV models. Full program eligibility details are available through participating Mitsubishi Motors dealer partners.

For more information on the full lineup of Mitsubishi vehicles, visit MitsubishiCars.com.

News and Notes

- MMNA made history in August as the Mitsubishi Outlander and Outlander Plug-in Hybrid (PHEV) were co-named *Green Car Journal's* 2026 Family Green Car of the Year. This latest Green Car Journal award – the fourth consecutive for Outlander Plug-in Hybrid – marks the first time in the award program's 21-year history that sister models have claimed the prestigious overall title.
- MMNA recently announced its first-ever dedicated off-highway styling and equipment package for the 2025 Outlander SUV, featuring Super All-wheel Control (S-AWC) and a host of program-specific trim and available performance and convenience components. Personalization is at the heart of the [Outlander Trail Edition](#), with a host of dealer accessories available to customize each vehicle to the buyer's personal taste.
- The brand's North American business plan, dubbed [Momentum 2030](#), promising a new or significantly revised vehicle every year between 2026 and 2030, continues strongly. MMNA announced that it will work with Alliance

partner Nissan Motor Co. Ltd. to bring a battery electric vehicle (BEV) to market in summer 2026, as well as open a study into co-developing an all-new SUV that will be produced in the future in a U.S. Nissan facility.

- Also part of Momentum 2030, MMNA announced its first Gallery dealership – a partnership between MMNA and local retailer City Auto Mitsubishi - will open in the first quarter of 2026. The Gallery dealership model will see similar facilities opened nationwide, all located in high-traffic, multi-use areas such as retail-heavy areas, mixed-use commercial/retail areas and shopping malls, to bring Mitsubishi Motors to a new generation of car buyers.

Individual model sales results:

MODEL	Q3 2025	Q3 2024	YTD 2025	YTD 2024
MIRAGE	2,764	10,162	13,483	20,024
OUTLANDER SPORT	3,080	3,813	14,958	11,706
OUTLANDER	7,323	11,138	27,136	35,629
OUTLANDER PLUG-IN HYBRID	2,403	2,279	5,481	5,175
ECLIPSE CROSS	4,077	4,196	12,342	10,184
TOTAL ALL	19,647	31,588	73,400	82,718

For more information on MMNA, visit media.mitsubishicars.com.