



TECH TALK

Volume 219 - March, 2016

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Vehicle Technical Information

NOTE: The ✓ mark indicates an article is being repeated from a previous issue of Tech Talk due to the subject's importance.

TT

GROUP 13 Fuel

TRACKING DEVICE INSERTED IN DLC CAUSING FALSE DTCs 2014-2015 Mirage
DTC P1590 (TCM to ECM Communication Error in Torque Reduction Request) and P1797 (G Sensor-Brake Pressure Sensor Malfunction) can be set when tracking devices are plugged into the DLC. Remove the tracking device and erase all DTC's before continuing diagnosis.

POOR STARTING DUE TO LOW QUALITY GASOLINE 2013-2015 Outlander Sport/RVR
The following paragraphs come directly from the Owner's Manual and addresses Poor Quality Gasoline:

"Poor-quality gasoline can cause problems such as poor starting, stalling during idling, abnormal engine noise, and poor acceleration.

"Repeatedly driving short distances at low

speeds can cause deposits to form in the fuel system and engine, resulting in poor starting and poor acceleration."

During colder months, especially when reformulated gasoline is used, some customers have reported extended crank times and hard starting concerns. In many cases dealers have been unable to duplicate the concerns. If a customer reports this condition and standard diagnosis does not reveal a cause, ask the customer where their fuel is being purchased and driving habits. After reviewing this information with the customer, suggest a **Top Tier** gasoline be used and, as necessary, recommend a genuine Mitsubishi cleaning additive as found in p/n A991ZC1X01. Visit www.toptiergas.com/retailers/ for the current listing of Top Tier gasoline retailers.

DTCs P0420 and P0421 DUE TO HIGH SULFUR CONTENT GASOLINE 2013-2015 Outlander Sport/RVR -- The following paragraph comes directly from the Owner's Manual and addresses Poor Quality / High Sulfur Gasoline:

"Gasoline sold in parts of the country other than California is allowed to have a higher sulfur content. Using such gasoline could adversely affect the vehicle's catalytic converter and cause the engine malfunction indicator ("SERVICE ENGINE SOON" or "Check engine light") to come on. Illumination of this indicator while using high-sulfur gasoline does not necessarily mean the vehicle's emission-control system is malfunctioning.

Your authorized Mitsubishi Motors dealer may suggest you try using a different, lower-

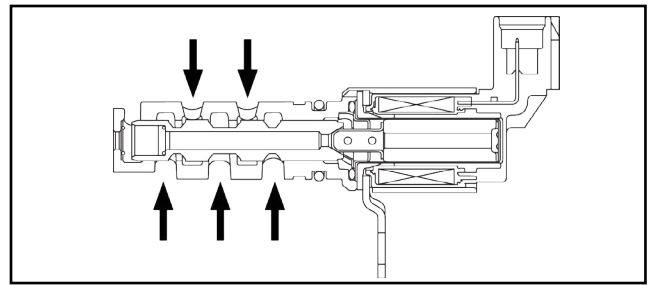
sulfur brand of unleaded gasoline to determine whether the problem is fuel-related.”

During the colder months, especially when reformulated gasoline is used, dealers report DTCs P0420, P0421 and P0137 for catalytic converter and O2 sensor concerns. In many cases, testing of returned parts has revealed no trouble with the function of these parts. If a customer reports the MIL illuminated due to the subject DTCs for catalytic converter or O2 sensor operation, has no drivability issues and no faults can be found with standard diagnosis, please ask the customer where their fuel is being purchased. After recording the DTCs, Mode \$06 and FFD, clear the DTCs and suggest that a Top Tier gasoline be used for several tanks if they have not regularly used Top Tier gasoline. If these DTCs are eliminated after switching to a Top Tier gasoline then previous gasoline with a high sulfur content was likely the cause.

Do not replace any related parts until the customer has used Top Tier gasoline for at least 3 tank refills. Top Tier Detergent Gasoline helps drivers avoid lower quality gasoline which can leave deposits on critical engine parts, affect in-use emissions, and reduce engine performance. Visit www.toptiergas.com/retailers/ for the current listing of Top Tier gasoline retailers.

MIL ON, DTCs FOR VARIABLE VALVE TIMING CODES P0010, P0011, P0013, P0014, P0016, OR P0017 -- 2013-2015 Outlander Sport/RVR. Remove the intake and exhaust oil control valves and inspect for contamination in the mechanical portion of the valve. If debris is found, use a dental pick or similar tool to remove it from all 5 oil passages. See drawing at upper right.

Confirm the solenoids' electrical operation by performing Actuator Test (Item No. 17) as detailed in Group 13A before reinstalling the intake and exhaust oil control valves.

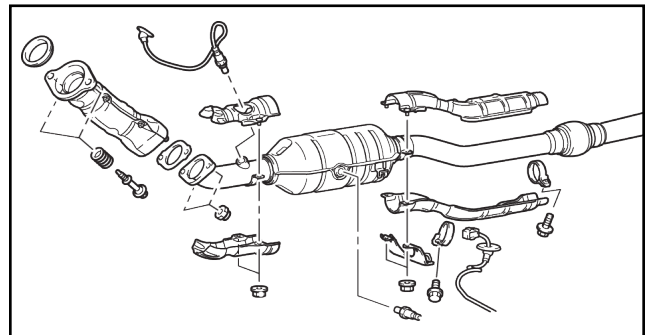


GENERIC PCM REPLACEMENT (2006-2009 Raider Truck). Technicians are reminded to consult TSB-06-13-010 for the detailed procedure.

===== TT =====

GROUP 15 Intake and Exhaust

EXHAUST HEAT SHIELD SERVICE PARTS AVAILABILITY -- 2013 and newer Outlander Sport/RVR. Several of the exhaust pipe heat shield components are now available as service parts. When repairing a vehicle for a noise due to a loose heat shield, do not replace the center exhaust pipe with catalytic converter if the heat shield can be serviced separately. Consult CAPS for further details.



===== TT =====

GROUP 23 Automatic Transmission

CVT SELECTOR LEVER POSITIONING and ACCELERATOR PEDAL OPERATION

All vehicles equipped with CVT Transaxles. There have been reports of CVT transaxle damage caused by moving the selector lever before the vehicle reaches a complete stop. If the selector is placed in R while the vehicle

is moving forward (without coming to a complete stop), transaxle damage can occur. Likewise, the selector being placed in D while the vehicle is backing up (without coming to a complete stop) can cause transaxle damage. Moving the selector lever from P to R or N to D with the accelerator pedal depressed will cause harsh engagement and transaxle damage.

AFTERMARKET INCANDESCENT and/or LED BULBS - All vehicles without factory LED bulbs - Be certain to verify the brake lamp bulbs when diagnosing DTC P0703 (Malfunction of Stoplight Switch). Customers sometimes install aftermarket lamp assemblies and/or LED bulbs which alters the brake light circuit resistance. Based on the incorrect voltage drop which results from the resistance change, diagnosis leads to replacing brake light switches or ECU's unnecessarily without fixing the problem.

Consult the Owner's Manual, section 9 (Vehicle Care and Maintenance) to verify the correct light bulbs are installed before beginning P0703 diagnosis. If it's not readily available in the glove box, technicians can visit www.mitsubishicars.com/owners/service/manuals for the specific Owner's Manual needed.



GROUP 35C

Active Stability Control System

STEERING WHEEL SENSOR (SAS) DTC C1219 & CALIBRATION 2013-2015 Outlander Sport/RVR. If an Outlander Sport/RVR exhibits an illuminated ASC Warning Symbol with DTC C1219 (Abnormality in Steering Wheel Sensor Signal), test drive the vehicle to determine if the steering wheel is straight when driving on a straight flat road. If the steering wheel appears off center, perform an alignment. If alignment is not necessary or an alignment is performed, recalibrate steering angle sensor according to the procedure in Service Manual according

to the procedure in Service Manual Group 35 under STEERING WHEEL SENSOR CALIBRATION. After recalibration, test drive the vehicle again to confirm the DTC does not return. If the DTC returns, follow the procedure in the Service Manual.

Many warranty return parts have been evaluated by the supplier with no problems identified with the returned sensors.



GROUP 42

Body

KOS OUTSIDE DOOR LOCK PUSH BUTTON SWITCH NOT FUNCTIONING – 2013-2015 Outlander Sport/RVR. The LH and RH outside door lock push button switch can become stuck against the side of the door handle cap. This causes the lock button to not extend above the door handle surface making the locking function inoperable. This may be an intermittent condition.

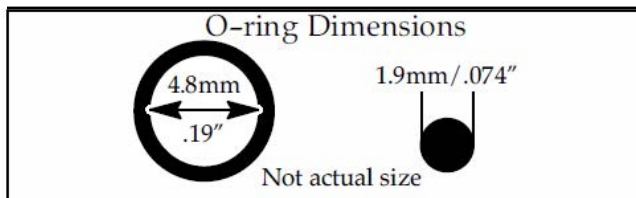
Repair: Remove the outside door handle cap from the door assembly per the following instructions. Open the door and remove the round black sticker adjacent to the outside door handle from the rear face of the door (save for reuse). Loosen the Torx 30 bolt through the uncovered access hole. The bolt will not come completely out as it is retained in the handle assembly by a clip. When the bolt is loosened, it must be pulled rearward (magnet) to clear the handle cap attaching hole. Open the outside door handle half way and pull the cap straight out. Examine the surface of the rubber boot to confirm there are no holes that would allow water into the switch. Replace the push button switch on any vehicles with damaged switch boots. Apply Krytox Weatherstrip Lubricant - MMNA P/N 04773427 to the side surfaces of the rubber boot cover. Allow a minimum of 15 minutes of drying time before reassembling. Only Krytox should be used due to its long term durability and lack of silicone. Silicone

based lubricants can adversely affect the electrical function of the door latch immediately below this KOS switch.



GROUP 51
Exterior

✓ **WASHER PUMP LEAKING AT FITTINGS**
2013-2015 Outlander Sport/RVR. If you find leakage at the washer pump forward of the right front tire, or the washer is inop, check if the washer pump fluid inlet/outlet assembly has become dislodged from the pump (refer to Group 51 - Exterior → Windshield Wiper and Washer for information). Confirm the o-rings on the pump outlets are in place. If o-rings are missing, it is NOT necessary to replace the entire washer pump. Though not available from your facing PDC, suitable replacements can be sourced locally using o-rings made of EPDM (Ethylene Propylene Diene Monomer) rubber, with an I.D. of 4.8mm and a material cross section of 1.9mm (NAPA p/n - 727-2602).



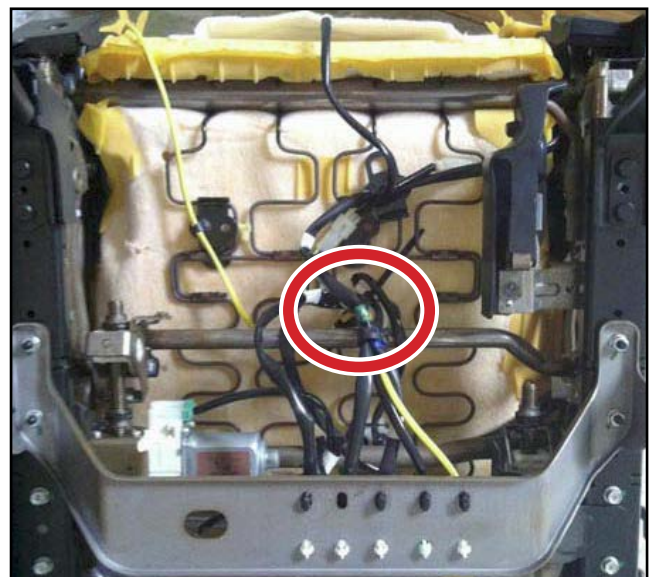
Install the new o-rings to the outlet fluid connections and reinstall the outlet to the pump. If the o-rings are simply dislodged, but not lost, and they are not cut or damaged, they can be reused. If it is necessary to replace the gasket between the fluid tank and pump, it is available separately (PNC 84233, p/n 8260A161).



GROUP 52B
Supplemental Restraint System

DRIVER'S SEAT SLIDE SENSOR WIRING HARNESS DAMAGE UNDER DRIVER'S SEAT with DTC B1556 -- *2013-2015 Outlander Sport/RVR.* As published in TIN-15-52B-001, MMNA has identified warranty claims for SRS DTCs B1558 [Occupant Classification-ECU DTC Present] and B1556 [Driver's Seat Slide Sensor Malfunction (Occupant Classification-ECU)] with OCM DTC B1B8D [Driver's Seat Slide Sensor Open Circuit]. Additional OCM DTCs that may also be present are: B1B8C [Driver's Seat Slide Sensor Circuit Performance] and B1B8E [Driver's Seat Slide Sensor Short Circuit].

During diagnosis, technicians should check for damage to the driver's seat slide position sensor harness in the location shown below.





If a damaged harness is found, DO NOT replace the front seat adjuster or SRS ECU for this condition. The harness is now shown in CAPS and is available as P/N 6979A429.

NOTE: On MUT-III, the SRS DTC B1556 is defined as “Drivers seat position SW fail”.

Additionally, wiring for the seat belt buckle switch, heated seat, and power seat motor (if equipped) are found in the same under-seat location as the harness for the driver’s seat slide sensor. MMNA has identified claims for inoperative function or DTCs for the seat belt buckle switch (SRS DTC B1527 [Open], or B1528 [Short]), heated seat, and power seat motor that could also be related to wiring concerns under the driver’s seat area. These components are not serviced with the front seat adjuster and are available separately as identified in CAPS. Please inspect these harnesses if inoperative functions or DTCs exist for the driver’s seat belt buckle switch, heated seat, and/or power seat.



Repair Procedure: Remove the Park Assist switch from the panel. Add a 3M tape or equivalent onto the left side of switch (as shown above). Dimensions: L 20mm x W 10mm and thickness of 1.5mm



GROUP 54
Chassis Electrical

FRONT AND REAR ACCESSORY PARK ASSIST SWITCH INTERMITTENTLY STICKS -- 2016 Outlander. The Park Assist switch (located on the far left side of the vent panel) may intermittently stick when depressed. The left side switch slot wall support is thin/slanted allowing the switch to sit at an angle when fully inserted. **NOTE:** Replacing the vehicle vent panel with a new part will not resolve the concern.




Reinstall switch and verify proper operation. Verify switch is secured by the 2 locking tabs.

NOTE: The Park Assist switch fits slightly proud compared to the other switches in the vent panel. This is normal.

DOOR SPEAKER REPLACEMENTS -- All Vehicles. Technicians are reminded that a completed Door Speaker check sheet is required whenever a speaker is replaced. See TSB 15-54-004 for additional information and a copy of the check sheet.

WINDSHIELD WIPER MOTORS -- Outlander Sport/RVR. Dealers are asked to submit a Product Quality Report (PQR) for windshield wiper motor concerns on vehicles built after 8/8/2014.



<p>TECHLINE (800) 446-6064</p>	 <p>HOURS OF OPERATION: Monday - Friday 6:30am-3:30pm Pacific Time</p> <p>Techline is closed every THURSDAY from 9:30-10:30 for a staff meeting.</p>
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Addition of an Interactive Voice Response (IVR) – Effective 3/1/2016


- Enables dealership personnel to obtain frequently requested information quickly by not having to wait to speak to a Techline agent
- Simple and easy to understand prompts
- Allows Techline agents to address the more complex issues faster

If the information from the IVR system is not sufficient or related to the call, the phone system will route the caller into the Techline Que where the usual in-person phone assistance will be available.

Expanded Techline Hours – Effective 3/7/2016

- Techline will be open Monday - Friday: 6:30 AM to 3:30 PM (Pacific Time)
- Elimination of the 11:30 AM to 12:30 PM (Pacific Time) closing



<p>MEDIC (800) 846-7575</p>	 <p>HOURS OF OPERATION: Monday - Friday 7:00am-4:00pm Pacific Time</p> <p>MEDIC Hotline will assist with MEDIC & Scan Tool hardware or software issues.</p>
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TECHNICAL TRAINING



NEWS and INFORMATION

MitsubishiAcademy.com

Recently Launched Courses and Technician Quiz #1 for 2016

- 2017 Mirage New Model Training for Technicians and Shop Foremen (170NM) - Web-based course
- 2016 Outlander NM Training for Technicians and Shop Foremen (160NM) - Web-based course
- Scan Tool Viewer 4 (STV4) - Instructor led course
- MEDIC4 (MED4) - Instructor led course
- Manual Transmission Fundamentals (MTFW) - Web-based course
- Manual Transaxles, Transfer Cases, and Differential Controls (MTT2) - Instructor led course
- TQ0116 - Technician Quiz # 1 for 2016

2017 Outlander PHEV (Plug-in Hybrid Electric Vehicle)

This all NEW vehicle is launching 3rd quarter of this year. PHEV technician training will consist of web-based and classroom instruction. Similar to i-MiEV, PHEV training will require technicians complete prerequisite courses listed below before enrolling in the classroom course conducted at Mitsubishi technical training centers.

- Electrical Systems Fundamentals (ES1W)
- Electrical Systems 2 Instructor led course (ES2)
- Advanced Electronic Service Procedures (AESP)
- Scan Tool Viewer (STV, STV3, or STV4)
- MEDIC 3 web-based course (ME3W)
- MEDIC 4 Instructor led course (MED4)

ASE Certification

The 2016/2017 Diamond Pro Technician Recognition Program will again include ASE certification for Master and Master Elite technicians. To ensure your ASE results are properly recorded in the Mitsubishi Academy, follow the steps listed below after logging in to the ASE website. Your Mitsubishi Academy User Name must match the Company-Assigned ID as listed on the ASE website.

- 1) Log on to the ASE website using your ASE User Name and Password.
- 2) In the blue banner near the top of the screen, Click Employer Information.
- 3) Confirm your Mitsubishi Academy User Name is shown as the Company-Assigned ID. If it is correct, click log off.
- 4) If your Mitsubishi Academy User Name is not shown, click Add Company-Assigned ID. This is your Mitsubishi Academy User Name. (If your Mitsubishi Academy User Name is incorrect, click Edit to correct it.)
- 5) Choose Mitsubishi from the Company drop down menu and enter your Mitsubishi Academy User Name. Click the Submit button.
- 6) Confirm the correct information has been entered and make any changes if needed. If the information is correct, click Logout.

TECHNICAL TRAINING



TRAINING CENTER SCHEDULE

March 2016 - April 2016

Always check MDL for schedule updates. Since Mobile Training does not appear on calendars below, contact your District Parts & Service Manager for information about Mobile Training in your area.

Atlanta Training Center - Eastern Zone

March					April					
M	T	W	Th	F	M	T	W	Th	F	
29	1	2	3	4	28	29	30	31	1	
							MFIT2			
7	8	9	10	11	4	5	6	7	8	
	CC1		ES3			ABS2				
14	15	16	17	18	11	12	13	14	15	
21	22	23	24	25	18	19	20	21	22	
MTT2		TC-SST				MED4	STV4	MEVTT		
28	29	30	31	1	25	26	27	28	29	
	MFIT2					AED			ASCF	

New Jersey Training Center - Eastern Zone

March					April				
M	T	W	Th	F	M	T	W	Th	F
29	1	2	3	4	28	29	30	31	1
7	8	9	10	11	4	5	6	7	8
	ES3		MEVTT			MED4	STV4	ES2	
14	15	16	17	18	11	12	13	14	15
	AT2			AT3		MFIT2			
21	22	23	24	25	18	19	20	21	22
MTT2		TC-SST							
28	29	30	31	1	25	26	27	28	29

Note the date changes marked in red above.

California Training Center - Western Zone

March					April				
M	T	W	Th	F	M	T	W	Th	F
29	1	2	3	4	28	29	30	31	1
7	8	9	10	11	4	5	6	7	8
14	15	16	17	18	11	12	13	14	15
						EN1			
21	22	23	24	25	18	19	20	21	22
	CVTT		TC-SST						
28	29	30	31	1	25	26	27	28	29

Dallas Training Center - Western Zone

March					April				
M	T	W	Th	F	M	T	W	Th	F
29	1	2	3	4	28	29	30	31	1
	AT2			AT3		MTT2		TC-SST	
7	8	9	10	11	4	5	6	7	8
	CC1		ASCF			STV4	MED4	ES2	
14	15	16	17	18	11	12	13	14	15
	AED								
21	22	23	24	25	18	19	20	21	22
						MEVTT		CVTT	
28	29	30	31	1	25	26	27	28	29
	MTT2		TC-SST			MFIT2			
	MEVTT								

Days	Code	Prerequisites	Days	Code	Prerequisites			
Automatic Transaxles								
40/50 Series Diagnosis & Repair	3	AT2T ATFT1 or ATFWE or ATFB	Manual Transaxles					
50 Series 5-speed Diagnosis & Repair	1	AT3 AT2T	Manual Transaxles & Transfer Cases	3	MTT2 MTFW, ES1W, MED2, MED4, STV4			
CVT Diagnosis & Repair	2	CVTT ATFT1 or ATFWE or ATFB	Twin Clutch Sportronic Shift Transmission	2	TC-SST AESP, ES1W, ES2, STV4, MED2, MED4, ATFWE, MTT2			
Brakes								
Antilock Brakes	2	ABS2 ES1W	Vehicle Specific					
Electrical Systems								
Electrical Systems 2	3	ES2 ES1W	Eclipse Spyder Convertible Top (Top Stack)	1	SP3 No Prerequisites			
Electrical Systems 3	2	ES3 ES1W	2014 Outlander Technology	1	141 ES1W, MED4, ME3W, STV4			
Engine Performance								
Advanced Emission Diagnosis	3	AED ES1W, STV4, MFIT2	Mitsubishi Electric Vehicle Technician Training	2	MEVTT AESP, ES1W, ES2, STV4, ME3W, MED4, 120			
Engine Technology & Diagnosis	3	EN1 No Prerequisites	Vehicle Diagnostics					
Multipoint Fuel Injection	4	MFIT2 ES1W, STV4	Advanced Electronic Service Procedures	-	AESP No Prerequisites			
Heating & A/C Systems								
Climate Control	2	CC1 MACW, ES1W, ME3W, MED4, STV4	Advanced Safety & Convenience Features	1	ASCF ES1W, ME3W, MED4, STV4			
			MEDIC4	1	MED4 ME3W			
			Scan Tool Viewer 4	1	STV4 No Prerequisites			

CVIR SUCCESS

**Schaumburg/Biggers Mitsubsihi,
Schaumburg, IL**
*A dealer who increased his service business using
the Computerized Vehicle Inspection Report.*



Schaumburg Mitsubishi's CVIR Team: Upper Row- Victor Herrera (Porter), Jack Walker (Parts Manager), John Dittrich (Parts Counterman), Lupe Alverado (Porter), Henry Hernandez (Service Advisor), Oswaldo Betancourt (Technician), Kyle Jenkins (Technician) Lower Row- Joe Cilella (Service Advisor), Paul Babani (Technician), Justin Rivera (Technician), Keith Becker (Fixed Operations Manager), Mark Bonilla (Technician)

The Computerized Vehicle Inspection Report was a major contributor to a significant increase in gross parts and labor sales the dealership experienced over the past two years.

According to Keith Becker, Fixed Operations Manager, "The CVIR process is a great avenue to offer parts and service to our customers in a non-threatening manner. There is a designated area of the showroom that we use as a place to perform the CVIR presentation. We've had very good feedback, especially using the iPad™ as it demonstrates our dealership embraces technology. The inspection also has a lot of color and it shows well on the iPad™."

"Because it is itemized, the customer does not feel overwhelmed. He or she can select certain items they want performed. The key to our success has been using the last page (comment section) to list all of the items the technician addressed in the report. Most of the selling happens on this page."

"The report works the same way if the customer is not present. They can view the CVIR that was emailed them, and we can both communicate more effectively." The report shows not only the repairs needed, it explains the findings in a way most customers easily understand. In this way, the report does the talking.

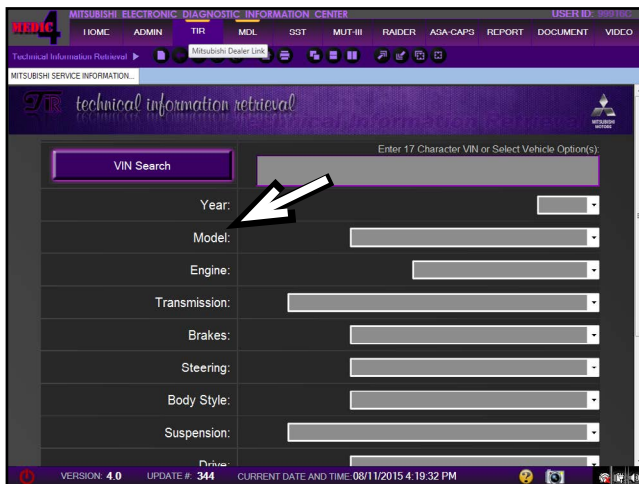
Schaumburg Mitsubishi is yet another dealership boosting their parts and service business while improving CSI using the Computerized Vehicle Inspection Report.

TECHNICAL INFORMATION RETRIEVAL



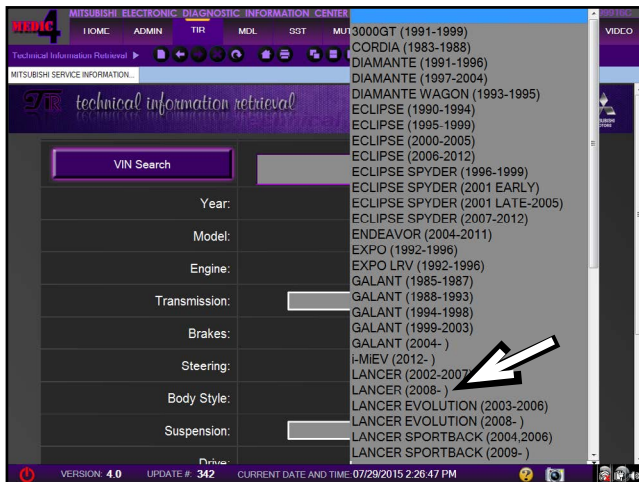
Tips for finding what you need, when you need it.

It happens all the time. Let's say you're faced with a Lancer whose left rear window won't close all the way. You remember reading something describing the problem and how to repair it but where was it? And when? Was it a Tech Talk article or TSB? Read on to discover an easy way to search for diagnosis and repair information on MEDIC. The key to successful results is keeping the search broad enough to find all the published articles which might apply.

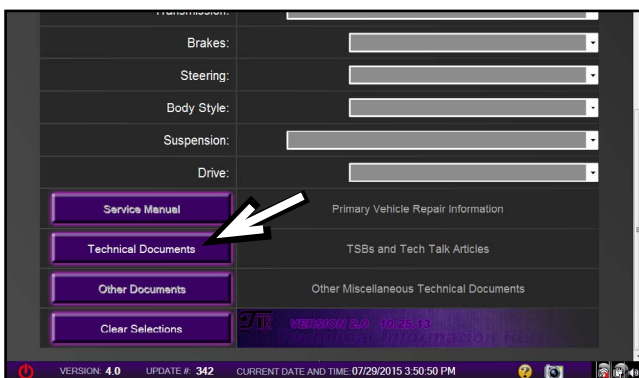


1) Touch the **TIR** tab.

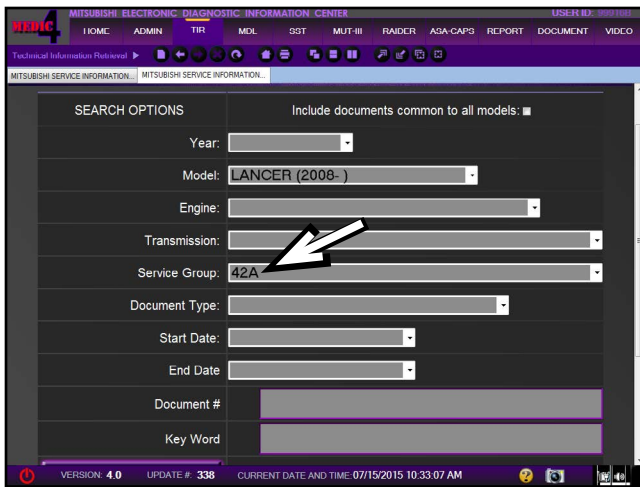
2) Touch **Model**.



3) Choose **LANCER (2008 -)** from the drop down menu.



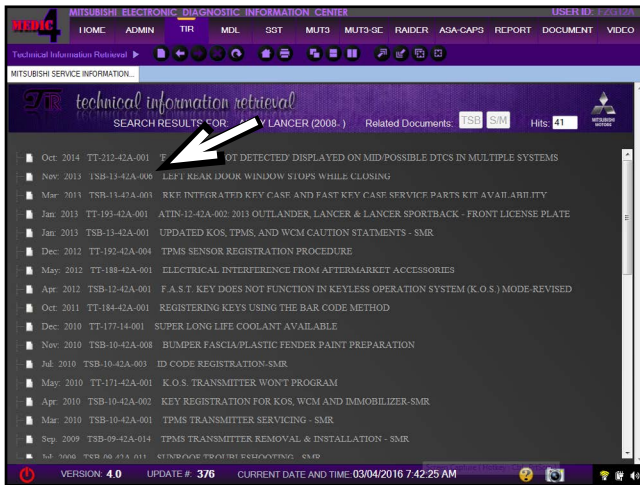
4) Scroll to the bottom of the screen and touch **Technical Documents**.



5) Since windows are included in the BODY section, choose 42A from the **Service Group** menu.

Leave **Document Type** empty to broaden the search to include TSBs, Tech Talk articles, Recalls, and Campaigns.

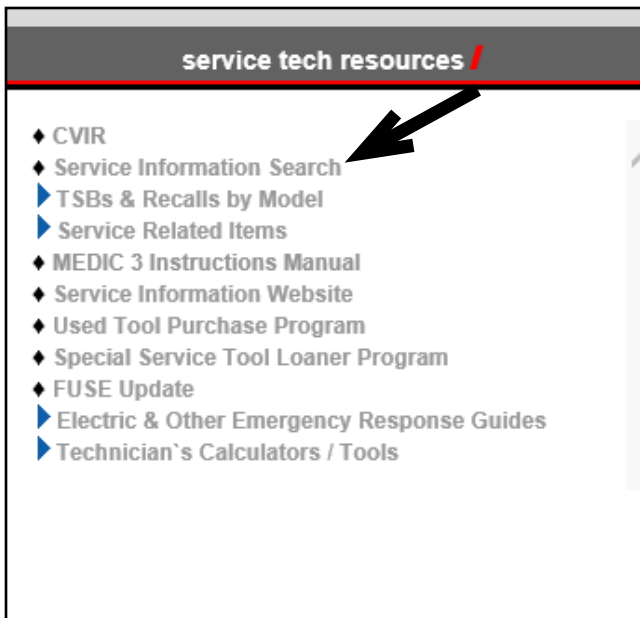
6) Scroll down and touch the **Search** button.



7) In this example, there are several articles with BODY information on 2008 to current model Lancer. The needed document is the second one listed in the search results.



Service Advisors can search for information much the same way without using MEDIC. Navigate to **MDL** and choose **service tech resources**.



1) Then choose **Service Information Search**.

Use this page to specify the initial criteria to be used to search for service information, and to select the type of documents you would like to view. Please refer to the detailed search instructions at right for more information if necessary.

Please view our [Warnings and Cautions](#) before attempting any repair procedures on a Mitsubishi vehicle.

VIN	Set search criteria using this 17-digit vin: <input type="text"/>	GO!
Model Year	-----select-----	▼
Model Name	LANCER (2008-)	▼
Engine	-----select-----	▼
Transmission	-----select-----	▼
Service Manual Technical Documents Other Documents Clear Selections		

2) Choose **LANCER (2008 -)** from the drop down menu and click **Technical Documents**.

Use this page to start a search for Technical Documents. Please refer to the detailed search instructions at right for more information, if necessary.

Include documents common to all models: <input type="checkbox"/>		
VIN	Set search criteria using this 17-digit vin: <input type="text"/>	GO!
Model Year	-----select-----	▼
Model Name	LANCER (2008-)	▼
Engine	-----select-----	▼
Transmission	-----select-----	▼
Service Group	42A	Select
Document Type	<input type="text"/>	Select
Document #	<input type="text"/>	
Key Word	<input type="text"/>	
Publish Date	Month: <input type="text"/> Year: <input type="text"/>	
Submit Clear Selections		

3) In the **Service Group** drop down menu, choose **42A BODY**.

4) Click **Submit**.

Service Information Retrieval

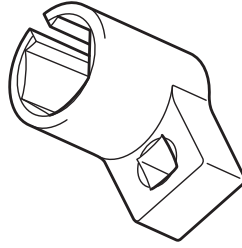
MITSUBISHI MOTORS *Technical*

TECHNICAL DOCUMENT SEARCH RESULTS: LANCER (2008-) (36 DOCUMENTS FOUND)

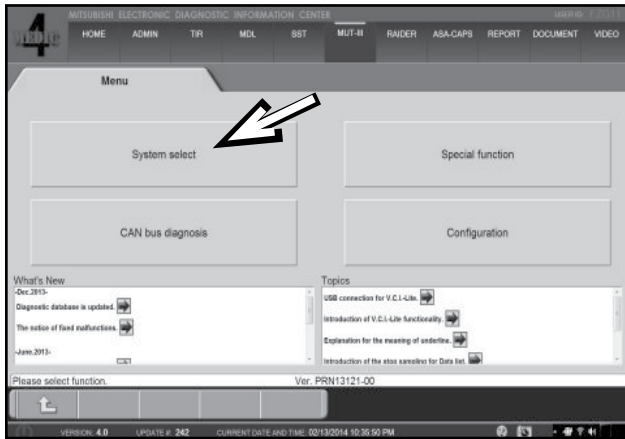
- TECHNICAL SERVICE BULLETINS(22 FOUND)
- SAFETY AND EMISSIONS CAMPAIGNS(0 FOUND)
- SERVICE CAMPAIGNS(0 FOUND)
- TECH TALK ARTICLES(14 FOUND)

5) Search results are grouped by article type. Click the **+** sign to expand the directories and view the articles they contain.

TIPS FROM THE TOOLMAN

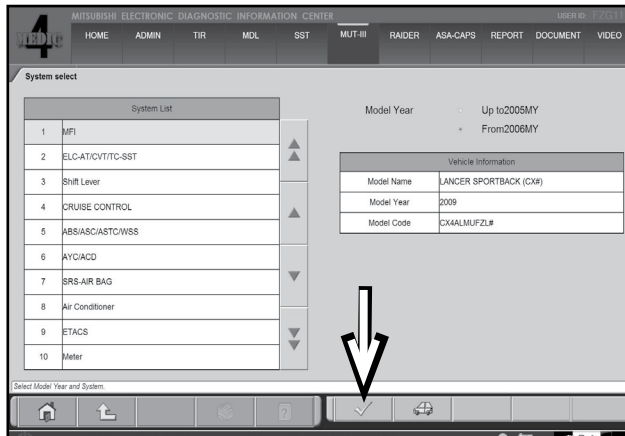


How to attach a Drive Recorder to a Techline Case



1. From the **Home** screen, touch **System Select**.

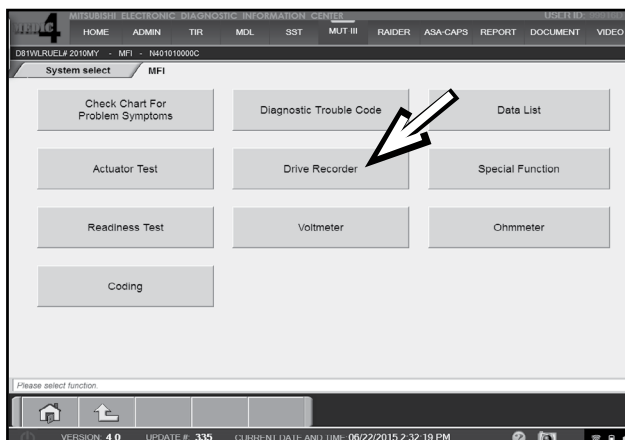
Start the engine.



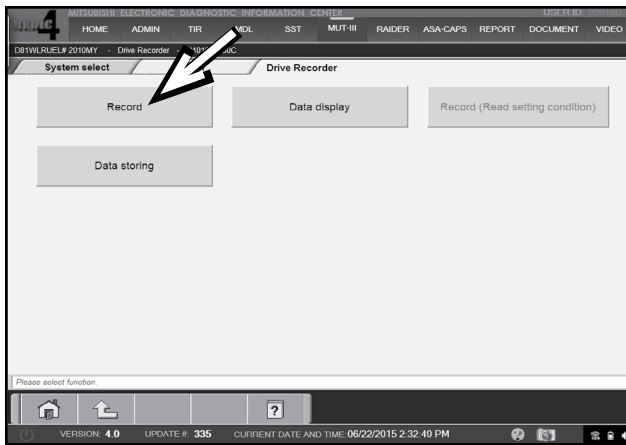
2. Choose/Enter the correct vehicle.

Highlight the system being diagnosed and touch the **check mark** to continue.

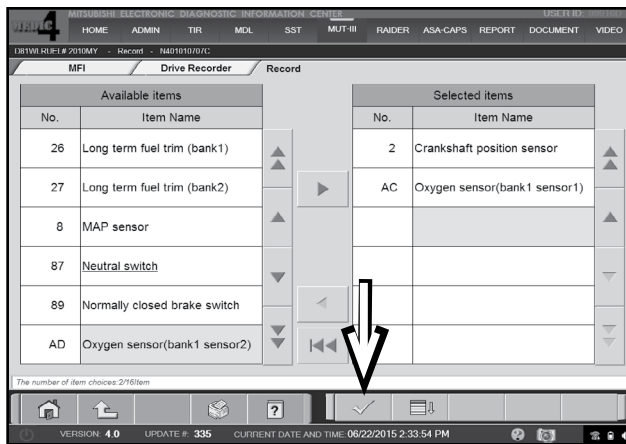
(MFI is used in this example.)



3. Touch **Drive Recorder**.

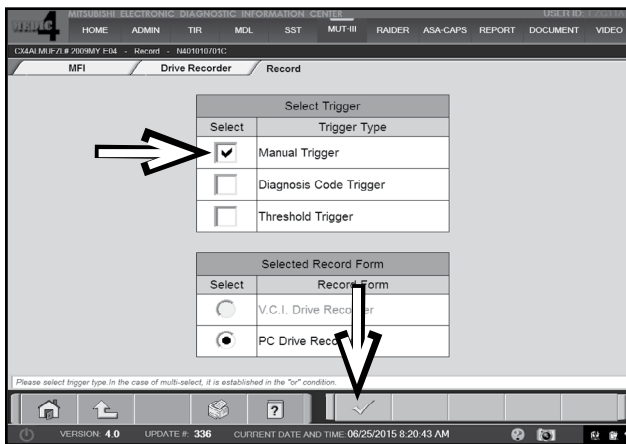


4. Touch **Record**.



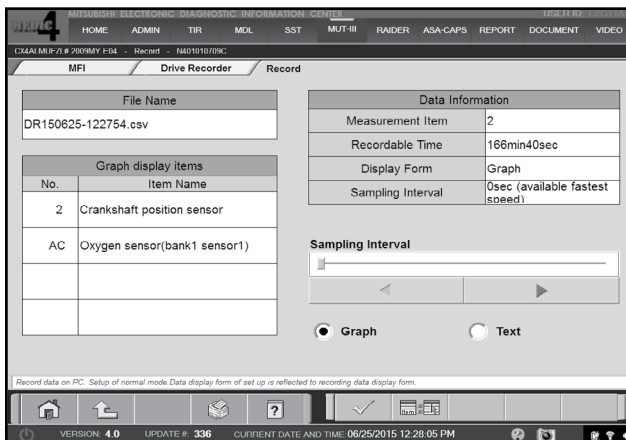
5. From the **Available Items** list, move the applicable data items to the **Selected Items** list.

Touch the **check mark** to continue.

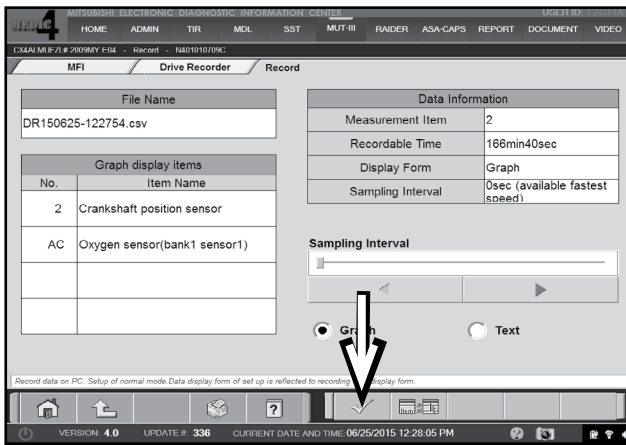


6. Place a **check mark** next to **Manual Trigger**.

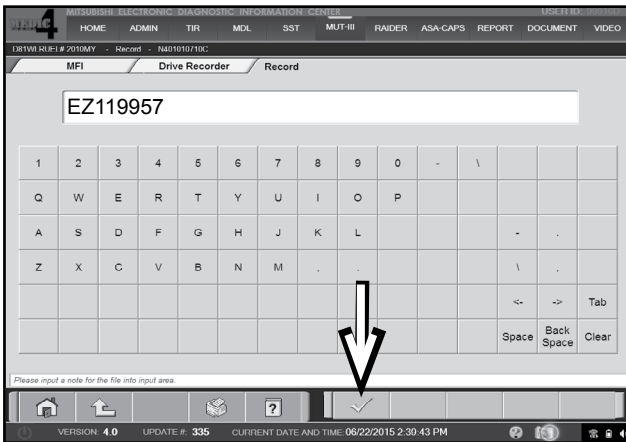
Touch the **check mark** to continue.



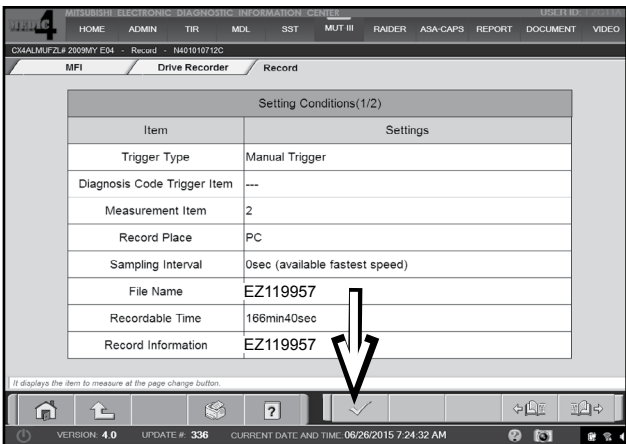
7. Ensure the **Sampling Interval** is set to 0.



8. Click the **check mark** to continue.



9. Change the name of the file using the last 8 digits of the VIN to identify the file (for example: EZ119957 Drive Record).

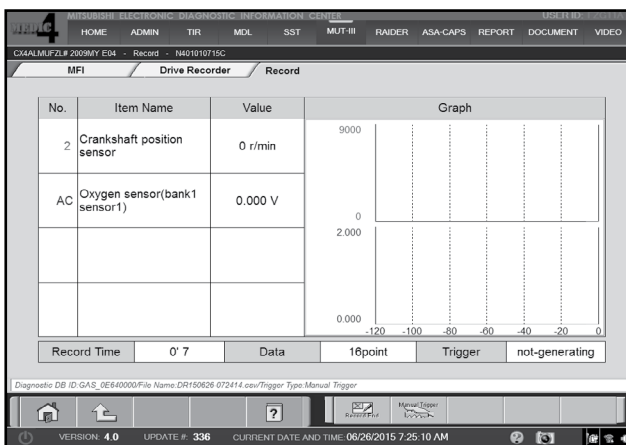


10. This screen confirms the recorder settings.

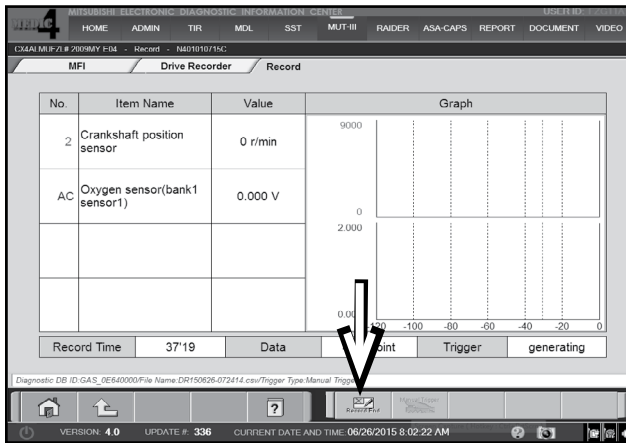
Technician Note:

Since the recording will begin as soon as the **check mark** is pressed, **wait** for the problem to occur before you trigger the recording.

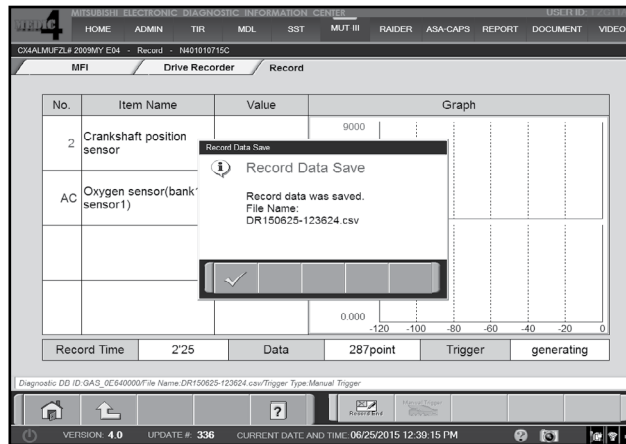
The Scan Tool records data before and after the trigger is activated making it easier to identify the problem circuit or device.



11. As soon as the check mark is touched, the recording starts and this screen appears.



12. After data has been recorded, touch the **Record End** button.



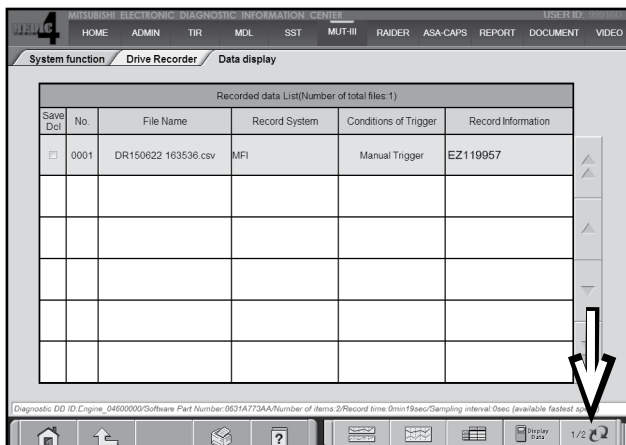
13. After the recording has ended, this screen appears to confirm the recording was saved to the ToughPad®.

Touch the **check mark** to continue.

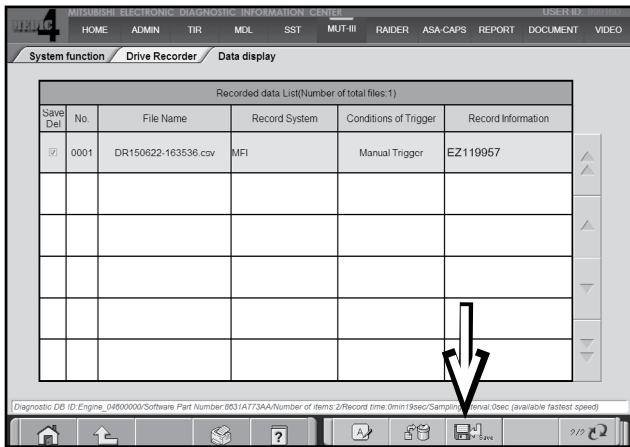


14. To save a permanent record of the Drive Recording, insert a thumb drive into the side USB port.

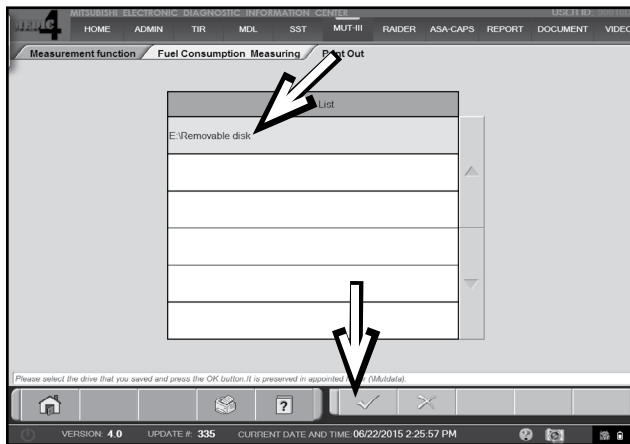
NOTE: If the VCI is connected to the side USB port, insert the thumb drive into the top USB port.



15. Touch this icon to move to screen **2/2**.



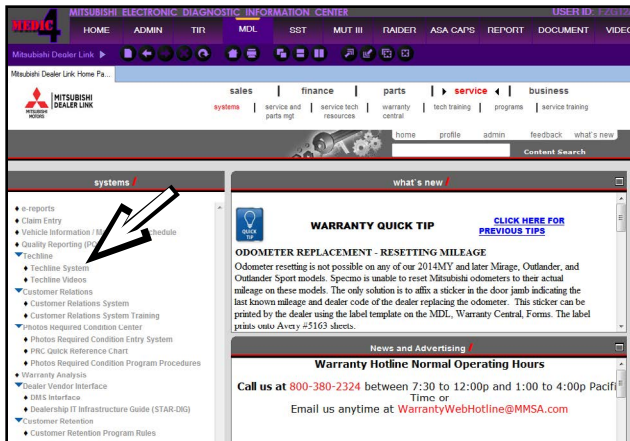
16. Touch the **Save** button.



17. Verify the thumb drive is highlighted and touch the **check mark** to continue.

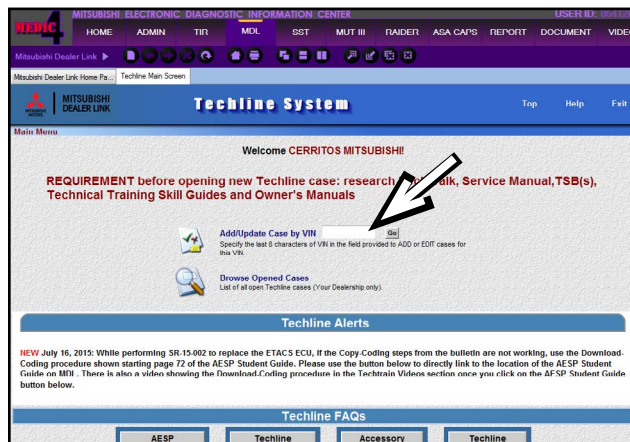
At the confirmation dialog box, touch the **check mark** to continue.

Technician Note:
If an error occurs indicating the software cannot find the thumb drive, call the **MEDIC hotline for assistance. (800) 846-7575**



18. Within MEDIC, navigate to MDL.

Choose **service > systems > Techline > Techline System**.



19. Enter the last 8 characters of the VIN and click the **Go** button.

VIN#		Vehicle Information	
Platform	EZ008650	VIN Full	JAAJZ4AX8E20
Labor Op	RE45	Model Year	2014 OUTLAND
Mileage	13	Production Date	6/26/2013
Date Occurred	23883	Engine Code / Serial #	6B31 / BA2301
Remedy	11/10/2015	Transmission	6ST
RO #	6041456	Price Line	OT45 Z

Case Information			
Attachments: None			
DTC:	U1425	Transceiver Data Malfunction	System
	U0431	ETACS Data Error	System
	B2100	Ignition Run/Start Input Circuit Performance	System
	C2100	Battery Voltage Low	System

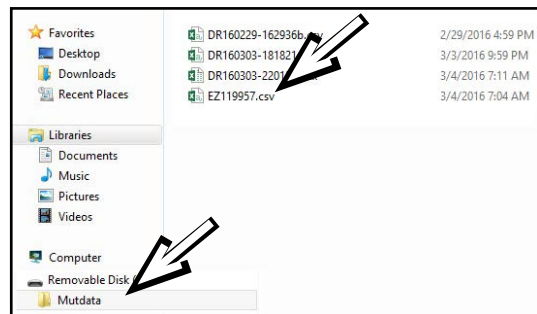
Dialogs (starting from most recent)			
Entry Date	11/10/2015 8:48:37	By	RLAWARTA
Result		Result By	LTHOM

20. Before continuing, verify the correct Techline case is displayed.

Click the **Paperclip** symbol (attachment).

Attachments for Techline Record #184907	
Existing Attachments	
Upload Attachments	
File name:	Browse...
File name:	Browse...
File name:	Browse...
File name:	Browse...
<input type="button" value="Upload"/> <input type="button" value="Close"/>	
6MB file size limit or 25MB for video/audio	

22. Using the **Browse** function, find and attach the Drive Recording you stored earlier on the thumb drive (E:\Removable Disk).



Attachments for Techline Record #184907	
Existing Attachments	
Upload Attachments	
File name:	E:\Mutdata\EZ119957.csv
File name:	Browse...
File name:	Browse...
File name:	Browse...
File name:	Browse...
<input type="button" value="Upload"/> <input type="button" value="Close"/>	
6MB file size limit or 25MB for video/audio	

23. Click the **Upload** button to attach the file to the Techline case.

Technician Note:

For further information about Drive Recordings, see the Scan Tool Viewer 4 (STV4) Student Guide published on MDL.

MDL > service > tech training > Training Resource Library > Curriculum & New Model Courses

BULLETIN REVIEW



Since Tech Talk 218, the following bulletins have been released.

Date Posted	Publication Number	Publication Title	Applicable Models
9/11/2015	SC-15-001	ON BOARD CHARGER SERVICE CAMPAIGN	2010 i-MiEV
9/11/2015	SC-15-002	MOTOR CONTROL UNIT SERVICE CAMPAIGN	2012 i-MiEV
9/21/2015	TSB-15-00-006	CORRECTION TO VIN - SMR	2013-16 i-MiEV
9/21/2015	TSB-15-54-005	DEW CONDENSATION IN HEADLIGHTS AND TAILLIGHTS	All Models
10/2/2015	TSB-15-52A-002	RATTLE OR TICKING NOISE FROM GLOVE BOX	2013-15 Outlander Sport
10/28/2015	SR-15-011	SRS WARNING LIGHT ILLUMINATES - SAFETY RECALL CAMPAIGN	2012 i-MiEV, 2014 Mirage
11/9/2015	TSB-15-42B-001	KOS DTCs B1130, B1138, B1156, B1168, B1169 DIAGNOSIS - SERVICE MANUAL REVISION	2015 Mirage
11/19/2015	TSB-15-23-005	SLIGHT STUMBLE ON ACCELERATION	2015 Outlander Sport
11/19/2015	SC-15-003	POTENTIAL TRANSMISSION SHUDDER/SURGE - SERVICE CAMPAIGN	2015 Outlander Sport
12/9/2015	TSB-15-13-001REVIII	ENGINE STALL/PCV HOSE DISCONNECTION (LOW ENGINE SPEED, HIGH AMBIENT TEMPERATURE) - REVISED	2014-15 Mirage
12/9/2015	TSB-15-16-001	STARTER STAYS ENGAGED AFTER ENGINE START	2014-15 Mirage
12/22/2015	TSB-15-54-006	EV-ECU SOFTWARE UPDATE FOR AUDIBLE BRAKE WARNING AND WARNING LIGHT WITH DTC C2022	2012-16 i-MiEV
12/22/2015	SC-15-004	POTENTIAL TRANSMISSION SHUDDER/SURGE - SERVICE CAMPAIGN	2016 Outlander
1/11/2016	TSB-16-54-001	FUSE HANDS FREE LINK SYSTEM: UNSTABLE BLUETOOTH CONNECTION	All Models with FUSE Hands Free Link
1/28/2016	TSB-16-13-001	ECM REPROGRAMMING FOR HARD TO RE-START ENGINE WITH LOW COOLANT TEMPERATURE	2014-15 Outlander
2/2/2016	SR-16-001	SRS CONNECTOR CORROSION - SAFETY RECALL CAMPAIGN	2014-15 Mirage
2/5/2016	TSB-16-52A-001	FRONT SEAT SLIDE RAILS - LOCK POSITION TIMING NOT SYNCHRONIZED	2014-15 Mirage
2/5/2016	SC-16-001	ECM REPROGRAMMING FOR ENGINE KNOCKING NOISE - SERVICE CAMPAIGN	2014-15 Mirage
2/24/2016	SR-15-009REV	RIGHT PARKING BRAKE CABLE INTERFERENCE WITH FUEL TANK - SAFETY RECALL CAMPAIGN - REVISED	2014-15 Lancer Evolution and Ralliart

TIN / ATIN REVIEW



Since Tech Talk 218, the following TINs/ATINs have been released.

Date Posted	Publication Number	Publication Title	Applicable Models
9/11/2015	ATIN-15-SC-001-A	2010 i-MiEV OBC SERVICE CAMPAIGN - SC-15-001	2010 i-MiEV
9/11/2015	ATIN-15-SC-002-A	2012 i-MiEV MCU SERVICE CAMPAIGN - SC-15-002	2012 i-MiEV
9/14/2015	TIN-15-23-003	CVT-8 AUTOMATIC TRANSAXLE ASSEMBLY - CODE 209 RESTRICTION FOR 2016MY OUTLANDER WITH 2.4L (4-CYL) ENGINE	2016 Outlander w/2.4L Engine
9/15/2015	TIN-15-23-004	COMPLETE CVT-ECU CODING PROCEDURE WHEN REPLACING CVT-8 TRANSMISSION, VALVE BODY, OR CVT-ECU	2015 Outlander Sport/RVR and 2016 Outlander Equipped F1CJC or W1CJC CVT Automatic Transaxle (CVT-8)
9/23/2015	TIN-15-52B-001	DRIVER'S SEAT SLIDE SENSOR WIRING HARNESS DAMAGE UNDER DRIVER'S SEAT	2013-15 Outlander Sport/RVR
10/2/2015	ATIN-15-SR-009-A	RIGHT PARKING BRAKE CABLE INTERFERENCE WITH FUEL TANK - SAFETY RECALL CAMPAIGN	Certain 2014-15 Lancer Evolution and Lancer Ralliart
10/20/2015	TIN-15-SR-004-D	VEHICLES AFFECTED BY ABS HYDRAULIC UNIT SAFETY RECALL CAMPAIGN - "REMEDY AVAILABLE" CUSTOMER LETTERS	2006-2009 Eclipse, 2007-09 Eclipse Spyder
10/28/2015	ATIN-15-SR-011-A	SRS WARNING LIGHT ILLUMINATES - SAFETY RECALL CAMPAIGN	Certain 2012 i-MiEV and 2014 Mirage
10/30/2015	TIN-15-23-005REV	REPROGRAMMING OF CERTAIN NEW VEHICLES IN DEALER STOCK: REVISED	2015 Outlander Sport/RVR Equipped with 2.0L Engine and F1CJC or W1CJC CVT Automatic Transaxle (CVT-8)
11/19/2015	ATIN-15-SC-003-A	POTENTIAL TRANSMISSION SHUDDER/SURGE SERVICE CAMPAIGN	2015 Outlander Sport
12/4/2015	TIN-15-23-006REV	REPROGRAMMING OF CERTAIN NEW VEHICLES IN DEALER STOCK	2016 Outlander Equipped with 2.4L Engine and F1CJC or W1CJC CVT Automatic Transaxle (CVT-8)
12/22/2015	ATIN-15-SC-004-A	POTENTIAL TRANSMISSION SHUDDER/SURGE SERVICE CAMPAIGN	2016 Outlander
2/5/2016	ATIN-16-SC-001-A	ECM REPROGRAMMING FOR ENGINE KNOCKING NOISE - SERVICE CAMPAIGN	2014-15 Mirage
2/17/2016	ATIN-16-SC-001-B	ECM REPROGRAMMING FOR ENGINE KNOCKING NOISE - SERVICE CAMPAIGN - CUSTOMER LETTERS	2014-15 Mirage
2/2/2016	ATIN-16-SR-001-A	SRS CONNECTOR CORROSION - SAFETY RECALL CAMPAIGN	2014-15 Mirage
2/12/2016	TIN-15-SR-004-E	VEHICLES AFFECTED BY ABS HYDRAULIC UNIT SAFETY RECALL CAMPAIGN - "REMEDY AVAILABLE" CUSTOMER LETTERS	2006-2009 Eclipse, 2007-09 Eclipse Spyder
2/12/2016	TIN-16-00-001	ELECTRICAL INSULATION GLOVES	All i-MiEV Vehicles
2/24/2016	ATIN-15-SR-009-B	RIGHT PARKING BRAKE CABLE INTERFERENCE WITH FUEL TANK - SAFETY RECALL CAMPAIGN - REVISED	2014-15 Lancer Evolution and Lancer Ralliart

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