

2017 Mirage G4 Sedan

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Vehicle Technical Info

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

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GROUP 13 - Fuel

<u>DTC P0463 RECORDED IN PCM, FUEL</u> <u>GAUGE DOES NOT REGISTER</u> — 2007-16 Outlander, 2011-16 Outlander Sport/RVR.

Reports from the field indicate DTC P0463 - Fuel Level Sensor Circuit High Input - may be set when the level of fuel in the tank is extremely low (no bars showing on the MID fuel gauge). Typically, this condition has been reported at PDI. If fuel is added and the DTC status changes from active to stored, erase the DTC. If DTC P0463 can be cleared after fuel is added to the vehicle, the low fuel condition was the likely cause of DTC P0463 being set. Further diagnosis is not required.

<u>DTCs P0420 & P0421 DUE TO HIGH</u> <u>SULFUR CONTENT GASOLINE</u> — 2013-15 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 driveability 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.

<u>GROUP 13 – Fuel and GROUP 17 –</u> Engine and Emission Control

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✓ DTC P0442: EVAPORATIVE EMISSION CONTROL SYSTEM LEAK DETECTED (SMALL LEAK) — 2013-15 Outlander Sport/RVR.

The vent solenoid bracket attached to the evaporative canister may be susceptible to bending and cause DTC P0442 to be stored in the ECM. During DTC P0442 troubleshooting, a visual inspection of the vent solenoid bracket

may assist in proper diagnosis.

Also, inspect the hose clamps around the evaporative canister and ensure they are positioned correctly. If either of these conditions are present, repositioning the part(s) may correct the issue. You can force the monitor to run with MUT–III to determine if the repair was effective.



GROUP 15 – Intake and Exhaust

PRONT EXHAUST PIPE HEAT SHIELD ADJUSTMENTS — 2011–2015 Outlander Sport/RVR.

When diagnosing a buzzing noise from under the vehicle, the source could be either of the following locations:

If the noise occurs around 2500 rpm, while driving or in Park, inspect the exhaust gasket between the front pipe and catalytic converter. It's possible that a front pipe heat shield is contacting the exhaust gasket tabs. The noise can typically be recreated with the vehicle in Park for easy confirmation. To resolve this condition, increase the clearance between the heat shield and the tabs using a long screwdriver or appropriate pry bar. Retest to confirm the repair.



Also verify that the heat shields shown in the photo below are not touching. If the heat shields are touching, use a screwdriver or appropriate device to pry them apart so there is approximately 4 mm clearance. Do NOT replace the center exhaust pipe with catalytic converter until all other potential causes of BSR have been eliminated.



<u>EXHAUST HEAT SHIELD SERVICE PARTS</u> <u>AVAILABILITY</u> — 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 convertor if the heat shield can be serviced separately. Consult CAPS for further details.



GROUP 23 – Automatic Transmission

<u>*CVT WILL NOT SHIFT OUT OF P (PARK)</u></u> <u><i>POSITION* — 2013–2015 Outlander Sport/RVR.</u></u>

If the customer cannot shift the vehicle out of the Park position, even intermittently, refer to Group 52A, Floor Console Assembly, and perform the following procedure before replacing the shifter.

Remove the RH console side panel. While watching the movement of the shift lock solenoid, have someone apply the brake pedal with the ignition ON to determine if the solenoid retracts. If the solenoid does not retract, it may be due to foreign material, identified as a sugary drink (e.g., Cola) residue built up in the solenoid plunger bore and on the solenoid plunger. This prevents the solenoid from retracting and the shifter cannot be moved from Park.

Remove the solenoid for cleaning as follows:



- Remove the solenoid from the shifter assembly by GENTLY releasing TAB 1.
- Carefully wedge a small screwdriver into the channel of TAB 2 to release the lower locking tab.
- Remove the solenoid by pulling it straight out.
- Unplug the electrical connector.
- Remove the spring and plunger and clean them with soap and water.
- Dampen a wet paper towel or lint-free rag with water and insert it into the bore of the solenoid to clean it.
- Reattach the electrical connector and re-install the solenoid to the shifter in reverse order of removal.
- Confirm solenoid and shifter operation and reinstall the console side panel.

Repairs as a result of this type of contamination cannot be claimed under warranty.

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PHOTO REQUIRED CONDITION (PRC) FOR <u>TPMS SENSOR REPLACEMENT</u> — 2014–15 Mirage.

If you replace a TPMS sensor on any 2014 – 2015 Mirage you are required to submit a photo to the PRC. The photo needs to show whether or not the TPMS sensor (body) was attached to the wheel (valve stem) when the tire was dismounted. In addition to posting the photo, please report the failure DTC(s) on the PRC report, and add a comment describing whether or not the tire had ever been dismounted prior to this service (e.g., YES – The tire was dismounted prior to this service, or NO – the tire was never dismounted prior to this service). If it is not apparent that the tire was previously dismounted, the customer should be able to provide that information. MMNA will issue a Warranty Parts Return Request for all replaced (Mirage) TPMS sensors (which includes the valve stem and bulb in addition to the sensor body). Once returned, the TPMS sensors will be combined with their respective PRC photos and forwarded to the supplier for analysis. Please continue posting the TPMS sensor photos to the PRC until a cancellation notice is published by MMNA headquarters. Upload PRC photos into the category titled "TPMS Sensors in Wheel Photos."







<u>GROUP 35C – ACTIVE STABILITY</u> <u>CONTROL SYSTEM</u>

<u>STEERING WHEEL SENSOR (SAS) DTC</u> <u>C1219 & CALIBRATION</u> — 2013-15 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 the Service Manual, Group 35, 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 37 – STEERING

STEERING WHEEL OFF CENTER — 2014–17 *Mirage.*

MMNA has received reports of steering wheel being off center when going straight on a flat road. There have also been reports of directional drift (when on a flat road). Dealers can help us investigate these concerns by providing actual measurement data. Actual measurement data can be provided in the form of a Drive Recording made on MUT-III. The MUT-III drive recorder should be set to record the following variables: 1) Steering angle (Item 11)

2) Vehicle speed (Item 2)

With MUT-III set to capture these items the technician, when going straight on a flat road, merely starts the recording (by hitting the manual trigger button) and stops the recording a few seconds later (by hitting the manual trigger button). The zero seconds time frame on the drive recording will show the amount of steering wheel offset (degrees) and the vehicle speed (when the problem is noticed). Once captured, the Drive Recording data should be faxed along with the completed Steering Wheel Offset Questionnaire that is posted on MDL.

The questionnaire can be found on MDL under service —> service tech resources —> Service Related Items —> Worksheets, Questionnaires, Job Aids.

Since most Steering Wheel Off Center and Directional Drift complaints are corrected by performing a wheel alignment, it is crucial the before and after wheel alignment measurement data also be faxed to MMNA Techline.



GROUP 52A – Interior

EXAMPLE SEAT CUSHION COVER LOOSE, <u>RETAINING CLIPS DETACHED</u> — 2013–15 Outlander Sport/RVR.

If a customer reports the seat cushion cover (seat bottom) is loose, check under the seat to see if the cover retaining strips are detached. Over time, the white plastic "J hooks" can lose their shape and become detached, causing the cover to loosen. If you find that a loose seat cushion cover is caused by detached cover retaining clips, discuss the possibility of repair with a local upholstery shop to determine if the cover can be securely reattached using "hog rings" or some other suitable retention method.

Do NOT replace the cover unless it cannot be successfully reattached by an upholstery shop.



A-PILLAR TRIM LOOSE — 2016 Lancer.

If a vehicle exhibits loose trim at the top of the right or left A-pillar, dealers are asked to take clear photos of the condition, then submit a Product Quality Report (PQR) in MDL, attaching the photos to the report. This should be done prior to any A-pillar trim removal.



When replacing the A-pillar, be aware that there are 2 different clip types used, specific to location. The black clip with the tether is positioned at the top of the trim, as shown below.



Inspect for any damage to the clip ends. Note in the PQR which portions of the clips have come loose. Replace the clips as necessary using Service Manual procedures.



DTC B223D OR B1558 FOUND IN SRS-ECU <u>MEMORY</u> — 2012-17 i-MiEV, 2008-16 Lancer, 2009-16 Lancer Sportback, 2008-15 Lancer Evolution, 2014-17 Mirage, 2017 Mirage G4, 2007-16 Outlander, 2011-16 Outlander Sport/RVR.

The subject DTCs are set when the Occupant Classification Module (OCM) communicates a fault to the SRS-ECU. If you find either B223D or B1558 in SRS-ECU memory, the Service Manual will tell you to check for OCM DTCs.

As the code that identifies what you diagnosed and repaired, record the OCM DTC in the "DTC" field on the "Labor" page when submitting a warranty claim. Knowing the root cause of a fault, identified in this case by the OCM DTC, helps MMNA and MMC with their investigations, which helps them quickly develop countermeasures when needed.

✓ DRIVER'S SEAT SLIDE SENSOR WIRING HARNESS DAMAGE UNDER DRIVER'S SEAT WITH DTC B1556 — 2013-15 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 adjustor 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 adjustor 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.

GROUP 54 – Chassis Electrical

✓ INCORRECT INDICATION THAT KEY IS IN IGNITION (REVISED) — 2013-15 Outlander Sport/RVR.

If the vehicle incorrectly indicates "KEY IN IGNITION" or chimes after the ignition key has been removed, one of 2 components may be the cause. The Lock Cylinder & Key Set (P/N 6369A052) or Engine Starting Switch-Attaching Switch (P/N 4408A155) may not be functioning correctly. The key cylinder plunger may not return to the proper position when the key is removed or the key indicator switch may have an electrical malfunction. In some cases these may be intermittent conditions. Test the function of this system by removing and inserting the key several times to recreate the customer complaint. This is necessary to help determine if the first of the 2 functional checks is the root cause of the concern.

In order to investigate the Lock Cylinder & Key Set or Engine Starting Switch-Attaching Switch, follow the steps below:

Step 1. Remove the steering wheel, separate the upper and lower column covers, and remove the steering column switches. Refer to Section 37, Steering Column Shaft Assembly, and Section 52, Driver's Air Bag Module and Clock Spring, for proper disassembly.

Step 2. Remove the key cylinder lock from the housing and inspect the key cylinder plunger. Remove and insert the key into the cylinder several times to determine if the key indicator plunger properly retracts into the cylinder housing when the key is removed. Lightly lubricate the plunger and retest. If foreign material is present on the plunger, also apply lubricant into the key opening to loosen any foreign material inside the cylinder.



- If the plunger does not operate freely, replace the key cylinder. The repair is complete.
- If the plunger functions properly, reinstall the Lock Cylinder & Key Set into the housing. Go to step 3.

Step 3. Reconfirm if the key indicator is working correctly by inserting/removing the key several times.

If the malfunction continues, replace the Engine Starting Switch-Attaching Switch (P/N 4408A155). Remove 3 screws (marked with circles below; 1 for the antenna and 2 on the micro-switch), detach the switch, replace, and reassemble. Check for proper function.



2017 MIRAGE DAS (DISPLAY AUDIO SYSTEM W/SMART PHONE LINK): ANDROID AUTO USB CONNECTION NOT RECOGNIZED — 2017 Mirage & Mirage G4.

Some customers may find that after connecting their Android phone to the Display Audio System with Smart Phone Link (DAS), the connection is not being recognized. Follow the steps below with the customer to resolve the connection.

- 1. Select the "Home" hard button on DAS.
- 2. Connect the USB cable to the smart phone micro USB and the DAS USB port.
- 3. If auto connection to DAS is established, the DAS will show connected. If connection is verified, continue to step 8 below.
- **NOTE:** Some phones may take a few seconds longer to auto connect.

- 4. If auto connection to DAS is NOT established, the DAS will show not connected. Continue to step 5.
- 5. Swipe from top of phone screen to bottom to invoke the "Settings" menu options (PHONE).
- 6. Select "Connect USB" (PHONE).
- 7. Select "Media Transfer" (PHONE).
- NOTE: Some phones may display a different heading such as "Transferring Images."
- 8. The phone might ask you to download Android Auto or other apps (e.g., Google Maps) Select Yes if you accept the conditions (Phone/DAS).

Review the Terms & Conditions on your phone (only required first time app is used). There may be additional messages asking the user to "accept" various features necessary for Android Auto.

- 9. Once the Android Auto icon is lit up, select Screen button (DAS), then read and accept the "Drive Safely" warning.
- 10. If Android Auto does NOT start after download is complete, disconnect the micro USB cable from phone and reconnect.
- **NOTE:** Steps 5 and 9 must be done every time the phone is connected via USB on Android phones with software 6.0 and above.
- 11. Confirm the DAS shows connected.

<u>2017 MIRAGE DAS (DISPLAY AUDIO SYSTEM</u> <u>W/SMART PHONE LINK) REAR VIEW</u> <u>CAMERA INOPERATIVE</u> — 2017 Mirage & Mirage G4.

Customers may complain that the rear view camera image is not displayed on DAS when vehicle shift selector is placed into reverse. One possible cause may be the bullet connector (blue wire with white stripe – reverse signal) on the DAS wire harness is disengaged. Reconnect bullet, and check that the bullet connectors are properly secured prior to reassembly.



DOOR SPEAKER REPLACEMENTS — All Models.

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.

REPLACEMENT ODOMETER CANNOT BE RESET ON SOME NEWER MODELS — 2014 and later Mirage, Outlander, Outlander Sport/RVR.

When replacing the odometer/speedometer cluster in certain newer models, the replacement odometer cannot be reset to reflect the actual mileage. As detailed in the Warranty Policy and Procedures Manual on MDL, dealers should contact Specmo Enterprises BEFORE sending the unit for odometer calibration. If Specmo advises the unit cannot be reset, technicians must fill in an odometer replacement label with the last odometer mileage reading (from the previous odometer) and dealer number.

For more information, refer to the Warranty Policy and Procedures Manual, Appendix A, which can be found on MDL, *service* —> *warranty central* —> 16. Warranty Policy and *Procedures Manual* —> Appendix A, Authorized Service Centers.

If an odometer replacement label is not supplied in the box with the replacement odometer, replacement labels can also be found on MDL, and printed out on Avery label sheets #5163.

The Odometer Replacement Notice labels can be found on MDL, under *service* —> *warranty central* —> 15. *Warranty Forms*. In the Warranty Forms Menu, click on number 25) Odometer Replacement Notice Labels.



NOTE: For better endurance, print labels to a laser jet printer, and use a permanent ink marker when filling in. Covering the completed label with clear plastic tape is recommended to prevent water intrusion.

<u>QUICK CHARGE DTCs P101B AND P101C</u> — 2014–17 *i*–MiEV.

On certain brands of FAST / DC / QUICK (level 3) chargers, DTCS may occur if the electric motor key (aka ignition key) is turned to the ON position while the vehicle is being charged. When either of the following DTCs set, the RBS warning light, the Yellow car warning light, and the Turtle light will illuminate.

- DTC P101B: Quick CHG Contactor P Weld
- DTC P101C: Quick CHG Contactor N Weld

The vehicle will also go into a reduced power mode which limits vehicle speed to 34 miles per hour. Erasure of the DTC will return the vehicle to normal operating conditions.



Dealers should advise i-MiEV drivers to avoid cycling the electric motor key while the vehicle is being Fast Charged. Refer to section 3 of the Owner's Manual for additional Quick Charging information.

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<u>GROUP 54 – Chassis Electrical</u> and <u>GROUP 55 – Heater, Air Conditioning</u> and Ventilation

INTERCHANGEABLE CONNECTORS BEHIND CENTER INSTRUMENT PANEL — 2013-15 Outlander Sport/RVR.

There are three 16-pin connectors behind the center instrument panel that are interchangeable. Improper connection may disrupt operation of the HVAC system, hands-free module / microphone and hazard switch. Warnings such as passenger air bag 'OFF' light (SRS DTC B1489), security light circuit, and seat belt warning light may also appear.

Reference the following information to confirm proper connection of the three interchangeable connectors.



<u>C-136 16-pin</u>: Tan connector, part of navigation harness. Plugs into the back of the navigation unit for hands-free module / microphone operation.

<u>C-232 16-pin</u>: Tan connector, harness has foam shield and runs to the right side of instrument panel. Plugs into HVAC controller.

<u>C-205 16-pin</u>: Grey connector, harness has black shield and runs to the left side of instrument panel. Plugs into audio surround panel for hazard switch, air bag warning light and security light operation.

<u>GROUP 55 – Heater, Air Conditioning</u> and Ventilation

<u>WATER ON FRONT PASSENGER FLOOR</u> — 2014–17 Mirage.

If you encounter a vehicle with water on the front passenger floor, check to see if the A/C evaporator drain hose is disconnected at the heater box. If the A/C evaporator drain hose is found to be detached, please replace the hose with a new one (P/N 7810A172), instead of reattaching it. MMNA would like to collect a minimum of 10 samples for analysis purposes. A blanket Warranty Parts Return Request will be issued for the replaced part. Please continue to replace the A/C evaporator drain hoses until a cancellation notice is published in a future issue of TechTalk. HEATER CORE REPLACEMENT — 2014-15 Mirage.

If a heater core is replaced on any 2014 – 2015 Mirage (for coolant leaks or insufficient warm air due to blockage) technicians are asked to complete the Heater Core Questionnaire that is posted on the MDL. The questionnaire can be found on the MDL under *service* —> *service tech resources* —> *Service Related Items* —> *Worksheets, Questionnaires, Job Aids.* Some of the questions are aimed at the vehicle owner so a good time to question them would be when they return to pick-up the repaired vehicle.





HOURS OF OPERATION: Monday — Friday 6:30 am – 3:30 pm Pacific Time

Techline is closed every THURSDAY 9:30 – 10:30 A.M for a staff meeting.





HOURS OF OPERATION: Monday — Friday 7:00 am – 4:00 pm Pacific Time

MEDIC Hotline will assist with MEDIC & Scan Tool hardware or software issues.

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Technical Training Schedule June 2016 – July 2016

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

EASTERN ZONE New Jersey Technical Training Center

Atlanta Technical Training Center



WESTERN ZONE

California Technical Training Center

		Jun	е					July	,	
м	Т	w	Th	F		м	т	w	Th	F
30	31	1	2	3		27	28	29	30	1
		AT2		AT3		ME	VTT		MTT2	<u> </u>
••								-		
6	7	8	9	10		4	5	6	7	8
		EN1		SP3		H	MED4		ES2	
13	14	15	16	17		11	12	13	14	15
		MF	IT2							
	-									
20	21	22	23	24	1	18	19	20	21	22
STV4	MEDA		ES2	L		[STV4]			CV	
		L							ASCF	
27	28	29	30	31	1	25	26	27	28	29
ME	VTT		MTT2							

Dallas Technical Training Center

		Jun	е				July	1	
м	т	w	Th	F	м	т	w	Th	F
30	31	1	2	3	27	28	29	30	1
6	7	8	9	10	Å	5	6	7	8
13	14	15	16	17	11	12	13	14	15
20	21	22	23	24	18	19	20	21	22
		AED		ASCF					
27	28	29	30	31	25	26	27	28	29

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

Saluting Mitsubishi DIAMONDPRO MASTER ELITE Technicians for 2015!



Information regarding award redemption will be announced soon.

MASTER ELITE TECHNICIANS

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	EASTE	RN ZONE MAST	ER ELITE TECHNICIANS		
Dealership	Last Name	First Name	Dealership	Last Name	First Name
WANTAGH MITSUBISHI	LEMAIRE	FRED	WAIKEM MITSUBISHI	KELLER	JORDAN
WANTAGH MITSUBISHI	PICECE	VINCENT	HERTRICH MITSUBISHI	PEDERSEN	ALAN
BUHLER MITSUBISHI	CARRETTA	THOMAS	PRESTIGE MITSUBISHI	SCHMIDT	DAVID
HALTERMANS MITSUBISHI	COTTER	MICHAEL	QUAKERTOWN MITSUBISHI	BECHTEL	KEVIN
HEALEY MITSUBISHI	ORTIZ	MICHAEL	COLONIAL MITSUBISHI-CHARLOTTESVILLE	RHODES	KYLE
MOTORWORLD MITSUBISHI	ZALEWSKI	JAMES	FITZGERALD MITSUBISHI	MASTERS	MICHAEL
PARAMUS MITSUBISHI	MICHIEMO	EVANS	OURISMAN MITSUBISHI	MANN	ROLAND
MAX MADSEN'S AURORA MITSUBISHI	MEARS	DAVID	SHIRLIE SLACK MITSUBISHI	HAAS	JEFFREY
MAX MADSEN'S AURORA MITSUBISHI	WOOLARD	ROBERT	D & E MITSUBISHI	HANNEL	BRADLEY
NIELSEN MITSUBISHI	NOVAK	TIM	DICK SMITH MITSUBISHI	STAFFORD	WARREN
O'BRIEN MITSUBISHI-NORMAL	HORNER	JOHN	FAYETTEVILLE MITSUBISHI	ORTIZ	LUIS
O'BRIEN MITSUBISHI-NORMAL	UTTER	RICHARD	LOVE MITSUBISHI	WOLTERS	KENNETH
BIGGERS MITSUBISHI	GAMACHE	JEFFERY	QUIRK MITSUBISHI-ME	BENNETT	SCOTT
CLIFF WALL MITSUBISHI	FLORES JR	LARRY	RICART MITSUBISHI	CLARK	CHAD
PORCARO MITSUBISHI	STORBECK	COREY	WALKER MITSUBISHI-OH	GREENSPAN	PHILLIP
MENTOR MITSUBISHI	WAWROWSKI	MICHAEL	FIVE STAR MITSUBISHI - AL	LUCAS	DANIEL
RAY SKILLMAN MITSUBISHI	CHALLIS	JEROLD	MOSES MITSUBISHI	JONES	DONALD
RAY SKILLMAN WESTSIDE MITSUBISHI	BROWNING	LAWRENCE	ALAN VINES MITSUBISHI	HARRIS	SHAWN
RON MARHOFER MITSUBISHI	LEARN	MICHAEL	GOSSETT MITSUBISHI	VOIGT	RUSSELL
WAIKEM MITSUBISHI	CUNNINGHAM	SHON	SHOWCASE MITSUBISHI	TOPORSKI	JOEL
	WESTE	RN ZONE MAS	<u>FER ELITE TECHNICIANS</u>		
Dealership	Last Name	First Name	Dealership	Last Name	First Name
EL CAJON MITSUBISHI	LONG	RANDOLPH	SHORTLINE MITSUBISHI	ERICKSON	CHARLES
PUENTE HILLS MITSUBISHI	LOC	THOMAS	SKYLINE MITSUBISHI	PULVERE	PAUL
PUENTE HILLS MITSUBISHI	PENNYWELL	MICHAEL	VERN EIDE MITSUBISHI	HERRIG	ALAN
ANAHEIM MITSUBISHI	FERGUSON	JEFF	DON HERRING NORTH MITSUBISHI	CRINELLA	GIOVANNI
BIG TWO MITSUBISHI	PRICE	GARRY	DON HERRING NORTH MITSUBISHI	VANDIVER	JAY
SOUTHERN OREGON MITSUBISHI	MANNING	BRADLEY	ATZENHOFFER MITSUBISHI	HENKE	DOUGLAS
SAN RAFAEL MITSUBISHI	MOELLER	JAY	MISSION MITSUBISHI	BERRY	LARRY
DON ROBINSON MITSUBISHI	ROTH	DYLAN	WEST LOOP MITSUBISHI-SAN ANTONIO	REICHLE	JUSTIN
LOU FUSZ MITSUBISHI-ST. PETERS	HARMS	JEFFREY	ROSWELL MITSUBISHI	BOLTON	KENNETH
LOU FUSZ MITSUBISHI-ST. PETERS	HERRERA	MARK	KENDALL MITSUBISHI	MESA	CLEMENTE
LUTHER BROOKDALE MITSUBISHI	BARNES	GARY	DAYTONA MITSUBISHI	DUKE	CORY
WHITE BEAR MITSUBISHI	KELLEY	DANIEL	GAINESVILLE MITSUBISHI	MATERN	DWAYNE
BOB PENKHUS MITSUBISHI	STROBEL	GREG			

Saluting Mitsubishi DIAMONDPRO MASTER Technicians for 2015!



Information regarding award redemption will be announced soon.

MASTER TECHNICIANS

EASTERN ZONE MASTER TECHNICIANS

Dealership	Last Name	First Name	Dealership	Last Name	First Name
BELL MITSUBISHI	WALLACE	ROBERT	EASLEY MITSUBISHI	BAGWELL	TOMMY
HEALEY MITSUBISHI	FUSCO	GIUSEPPE	EXPRESSWAY MITSUBISHI	KUJAWA	STAN
CORONET MITSUBISHI	CONDIE	ANTHONY	PANTILI MITSUBISHI	BLANKENSHIP	ANTHONY
RUSS DARROW MITSUBISHI	FISCHER	JOHN	BOB KING MITSUBISHI	WHITE	RONNIE
SCHLOSSMANN CITY MITSUBISHI	CORN	THOMAS	DICK SHIRLEY MITSUBISHI	PRICE	JOSEPH
RAY SKILLMAN SHADELAND MITSUBISHI	HUNTER	JAY	LEITH MITSUBISHI-RALEIGH	DUCKSON	DAN
FRED BEANS MITSUBISHI	LOFTUS JR.	THOMAS	WALLACE MITSUBISHI JOHNSON CITY	NEWBERRY	DANIEL
YORK MITSUBISHI	KEEFER	MERL			
SCHLOSSMANN CITY MITSUBISHI RAY SKILLMAN SHADELAND MITSUBISHI FRED BEANS MITSUBISHI YORK MITSUBISHI	CORN HUNTER LOFTUS JR. KEEFER	THOMAS JAY THOMAS MERL	DICK SHIRLEY MITSUBISHI LEITH MITSUBISHI-RALEIGH WALLACE MITSUBISHI JOHNSON CITY	PRICE DUCKSON NEWBERRY	JOSEPH DAN DANIEL

WESTERN ZONE MASTER TECHNICIANS

Dealership	Last Name	First Name	Dealership	Last Name	First Name
ANAHEIM MITSUBISHI	KISHABA	JOHN	DON HERRING NORTH MITSUBISHI	RODRIGUEZ	JOSE
MARK MITSUBISHI-AZ	EMINHIZER	DARREN	BRYAN MITSUBISHI	GARNER	JOHN
KARMART MITSUBISHI	DRAKE	MICHAEL	WALKER MITSUBISHI-LA	AUCOIN	MARK
OAKLAND MITSUBISHI	BUSTAMANTE	MARK	SAVANNAH MITSUBISHI	HAMMOND	WILLIAM
OLATHE MITSUBISHI	SMITH	ERIC	BILL SEIDLE'S MITSUBISHI	SOLORZANO	ENNIO
DON HERRING IRVING MITSUBISHI	GUZMAN	IVAN	COCONUT CREEK MITSUBISHI	VON STEIN	ROBERT
DON HERRING IRVING MITSUBISHI	ROOK	ROLAND	PALM MITSUBISHI	MCGHEE	MARK
DON HERRING NORTH MITSUBISHI	HARRIS	KENNETH	PRECISION MITSUBISHI	ERHARD	BRIAN
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Saluting Mitsubishi DIAMONDPRO SENIOR Technicians for 2015!



Information regarding award redemption will be announced soon.

SENIOR TECHNICIANS

EASTERN ZONE SENIOR TECHNICIANS									
Dealership	Last Name	First Name	Dealership	Last Name	First Name				
BROOKLYN MITSUBISHI	STYLIANOU	GUS	LANCASTER MITSUBISHI	TROOP	ROBERT				
LASORSA MITSUBISHI	VAZQUEZ	JOSUE	BERTERA MITSUBISHI	SKILL	JOHN				
POTAMKIN MITSUBISHI-NY	BRITO	DENIS	JBA MITSUBISHI	KINCER	RODNEY				
46 MITSUBISHI	GONCALVES	JOSE	JERRY'S MITSUBISHI	BELING	JEFFREY				
BELL MITSUBISHI	LEBRON	FRANK	KING MITSUBISHI-MD	FUENTES	JOSE				
DUTCHESS MITSUBISHI	MONTALVO	ANGELO	OURISMAN MITSUBISHI	PACE	BRYAN				
DUTCHESS MITSUBISHI	SINDONE	KEITH	SHIRLIE SLACK MITSUBISHI	CURRY	DANELL				
HEALEY MITSUBISHI	BELCHER III	FREEMAN	JOE PECHELES MITSUBISHI	KIRKMAN	GREG				
PARAMUS MITSUBISHI	COLIN	HUBERT	LARRY JAY MITSUBISHI	WINDERL	ANDREW				
MAX MADSEN MITSUBISHI	SHARP	GREGORY	BURDICK MITSUBISHI	GATHMANN	DONALD				
MAX MADSEN'S AURORA MITSUBISHI	FRIEDRICH	CHRISTOPHER	DELLA MITSUBISHI	JAMES	COLIN				
SOUTH SUBURBAN MITSUBISHI	FREEBORN	CHRISTOPHER	FUCCILLO MITSUBISHI	TUCKER	BRANDON				
BERGSTROM MITSUBISHI	HAWS	ROBERT	GOLDSTEIN MITSUBISHI ALBANY	BRADYJR	DONALD				
BIGGERS MITSUBISHI	PANTOJA	SERGIO	COLUMBUS MITSUBISHI NORTH	WEBB	TRENT				
SCHAUMBURG MITSUBISHI	BABANI	PAUL	WALKER MITSUBISHI-OH	TIPTON	JASON				
BEDFORD MITSUBISHI	MOELLER	EDWARD	JIM SHORKEY MITSUBISHI-N.HUNTINGDON	KALIK	TIMOTHY				
BOARDMAN MITSUBISHI	CAROTHERS	BRIAN	MOUNTAINEER MITSUBISHI	HONAKER	LOGAN				
INTERSTATE MITSUBISHI	MICHAELS	STEVEN	PANTILI MITSUBISHI	CREWS	SHAWN				
SPITZER MITSUBISHI-SHEFFIELD	ALVAREZ	SERGIO	PANTILI MITSUBISHI	SETTLES	MAURICE				
SPITZER MITSUBISHI-SHEFFIELD	SAUNDERS	MICHAEL	CBS MITSUBISHI-DURHAM	NEELY	MICHAEL				
SUNNYSIDE MITSUBISHI	ADAMS	MIKE	HALLMARK MITSUBISHI	THOMPSON	JIMMY				
	NEDELA	MARK	I FITH MITSUBISHI-BAI FIGH	MAROUF7	VICTOR				
	WOODARD	IOHN	SKYLAND MITSUBISHI	RAYGOZA	ILIAN				
	IONES	ΔΠΔΝ	WALLACE MITSUBISHI-KINGSPORT	DFAN					
	JOILES			DEAN	JOSHOA				
	w	ESTERN ZONE SE	NIOR TECHNICIANS						
Dealership	Last Name	First Name	Dealership	Last Name	First Name				
GLENDALE MITSUBISHI-CA	REAL	RAONEL	HUB MITSUBISHI	MONCADA	DOUGLAS				
GLENDALE MITSUBISHI-CA	VO	BINH	JUBILEE MITSUBISHI	BROWN	BENNIE				
BAKERSFIELD MITSUBISHI	CONDE	PAUL	LONE STAR MITSUBISHI	CASTILLEJA	ROQUE				
MARK MITSUBISHI-SCOTTSDALE	HYSON	STEVE	WEST LOOP MITSUBISHI-SAN ANTONIO	FILLOTEO	FRANK				
PAINTER'S SUN COUNTRY MITSUBISHI	SCOTT	CARL	WEST LOOP MITSUBISHI-SAN ANTONIO	GARZA	RICARDO				
ALAN WEBB MITSUBISHI	GREAVES	DAVID	WEST LOOP MITSUBISHI-SAN ANTONIO	ZUNIGA	ENRIQUE				
BRONCO MOTORS MITSUBISHI	RICHARDS	MICHAEL	AL MEYER MITSUBISHI	PITTS	JASON				
HARRIS MITSUBISHI-WA	WALL	MIKE	BARKER MITSUBISHI	BLAKE	GREG				
LARSON MITSUBISHI	RUSH	BEN	HAMPTON MITSUBISHI	WIRTZ	REGINALD				
LESKOVAR MITSUBISHI	HOPWOOD	JOSH	ORR SHREVEPORT MITSUBISHI	HILL	FREDDY				
OLYMPIA MITSUBISHI-WA	BARROWS	HARRY	PETE MOORE MITSUBISHI	NEWBERRY	GARY				
YOUNKER MITSUBISHI	ALIYEV	GUSEYN	JEFF SMITH MITSUBISHI	JOHNSTON	CHARLES				
JOE MACHENS MITSUBISHI	NILES	EDDIE	COCONUT CREEK MITSUBISHI	BARTLEY	RICHARD				
RICHFIELD BLOOMINGTON MITSUBISHI	HANSON	JEFFREY	KING MITSUBISHI-FL	SAMUDA	DAYNE				
ZIMMERMAN MITSUBISHI	CARPER	JACOB	MIAMI LAKES MITSUBISHI	LOPEZ	HERBIE				
ABSOLUTE MITSUBISHI	ACOSTA	OMAR	CROWN MITSUBISHI-FL	WOOD	WILLIAM				
CLAY COOLEY MITSUBISHI - ARLINGTON	VILLARREAL	AARON	FIRKINS MITSUBISHI	BENTON	JOHN				
REAGOR-DYKES MITSUBISHI - LUBBOCK	ROMERO	RUBEN	RC HILL MITSUBISHI-DELAND	JESSEE	FREDDIE				
GILLMAN MITSUBISHI-SELMA	MCQUEEN	ROGER							
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Information regarding award redemption will be announced soon.

SPECIALIST TECHNICIANS

EASTERN ZONE SPECIALIST TECHNICIANS

	LAJIL	KIN ZOINE SPECIA			
Dealership	Last Name	First Name	Dealership	Last Name	First Name
CITY MITSUBISHI-NY	TEJEDA	JUAN	HYMAN BROS. MITSUBISHI	BELCHER	MICHAEL
SCHALLER MITSUBISHI	KNAPIK	RICHARD	KING MITSUBISHI-MD	JETT	JASON
SMITH HAVEN MITSUBISHI	SEIDL	ANDREW	OURISMAN MITSUBISHI	ALSTON	DARRYL
ISLAND MITSUBISHI	LIANTONIO	DOMENICK	OURISMAN MITSUBISHI	WINDHAM	TONY
CONTINENTAL MITSUBISHI	VLAJNIC	NIKOLA	HOOVER MITSUBISHI CHARLESTON	LUND	MATTHEW
MAX MADSEN MITSUBISHI	GROSS	KEITH	PLANET MITSUBISHI	PIMENTEL	CHRISTOPHER
MAX MADSEN'S AURORA MITSUBISHI	ZEPEDA	JOSE	BURDICK MITSUBISHI	MALONEY	CHRISTOPHER
O'BRIEN MITSUBISHI-NORMAL	GORDON	CHRISTOPHER	FUCCILLO MITSUBISHI	CLAFLIN	ADAM
SOUTH SUBURBAN MITSUBISHI	GALE	CHRISTOPHER	GOLDSTEIN MITSUBISHI ALBANY	RAMPERSAUD	DHANASAR
ANDERSON MITSUBISHI-IL	WOODS	REX	MARINA MITSUBISHI	NEWCOMB	KENNETH
BIGGERS MITSUBISHI	BROSKA	KURT	JEFF SCHMITT MITSUBISHI	BELLAR	JOHN
BIGGERS MITSUBISHI	CARRILLO	JUAN	SWOPE MITSUBISHI	BROWN	JAMES
PRESTIGE MITSUBISHI-WI	WURM	JOSEPH	MOSES MITSUBISHI	MERRITT	TIMOTHY
MENTOR MITSUBISHI	STROUSE	JOSEPH	SOUTH PARK MITSUBISHI	MCKIERNAN	TIMOTHY
RAY SKILLMAN MITSUBISHI	HANNEMAN	RANDAL	VANN YORK MITSUBISHI	BALDWIN	MARK
RAY SKILLMAN SHADELAND MITSUBISHI	KEEVERS	BLAKE	ANN ARBOR MITSUBISHI	ROWLEY	THOMAS
SUNNYSIDE MITSUBISHI	WILLIAMSON	JOHN	VERHAGE MITSUBISHI	FAUST	KEVIN
YORK MITSUBISHI	GARVER	ERIC			
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	WESTE	RN ZONE SPECIA	LIST TECHNICIANS		
Dealership	Last Name	First Name	Dealership	Last Name	First Name
GLENDALE MITSUBISHI-CA	FUENTES	GUILLERMO	AUTONATION MITSUBISHI	CAMPOS	PAULINO
ANAHEIM MITSUBISHI	OLMOS	JONATHAN	ORR SHREVEPORT MITSUBISHI	WEAVER	LYNDEL
BIG TWO MITSUBISHI	FRANKLIN	KYLE	BILL SEIDLE'S MITSUBISHI	PARAISON	JACKSON
MARK MITSUBISHI-SCOTTSDALE	HYSON	JOSHUA	COASTAL MITSUBISHI	DECHERT	JOHN
BRONCO MOTORS MITSUBISHI	KERBS	KASEY	COASTAL MITSUBISHI	DZARA	MICHAEL
GLADSTONE MITSUBISHI	FOGG	KYLE	COCONUT CREEK MITSUBISHI	ZAMORANO	JORGE
GLADSTONE MITSUBISHI	ZEILER	DOUGLAS	DEPENDABLE MITSUBISHI	CLELAND	DOUGLAS
DES MOINES MITSUBISHI	WINTER	GEORGE	KENDALL MITSUBISHI	FAJARDO	ALFONSO
LUTHER BROOKDALE MITSUBISHI	CLOUTIER	TONY	MIAMI LAKES MITSUBISHI	ESPINOSA	MAIVER
LUTHER BROOKDALE MITSUBISHI	TANGREN	DANIEL	WILLIAM LEHMAN MITSUBISHI	CASTILLO	EDUARDO
RICHFIELD BLOOMINGTON MITSUBISHI	DEJESUS	LUIS	WILLIAM LEHMAN MITSUBISHI	GONZALEZ	CRISTOBAL
WHITE BEAR MITSUBISHI	KROLL	ANDREW	DAYTONA MITSUBISHI	GRAHAM	KEITH
CASA MITSUBISHI	SILVA	VICENTE	DAYTONA MITSUBISHI	LEAGUE	RALPH
EDWARDS MITSUBISHI	KAVEN	AUGUST	DAYTONA MITSUBISHI	MONDELLO	KEITH
JEREMY FRANKLIN MITSUBISH	CASE	THOMAS	GAINESVILLE MITSUBISHI	WHITEHEAD	CASEY
NORMAN MITSUBISHI	WOODYARD	LEWIS	RC HILL MITSUBISHI-DELAND	CASTILLO	FERNANDO
ARROW MITSUBISHI	EGBERT	RODNEY	RC HILL MITSUBISHI-DELAND	FINOCCHIO	NICK
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Since Tech Talk 219, the following bulletins have been released.

2016 Technical Service Bulletins, Safety Recalls, & Service Campaigns								
Date Posted	ate Posted Publication Number Publication Title							
3/7/2016	SC-16-001REV	ECM Reprogramming for Engine Knocking Noise - Service Campaign - Revised	2014-15 Mirage					
3/9/2016	TSB-16-001	General PDI Procedures for 2017 Models (except EV and PHEV)	All 2017 Models					
3/31/2016	TSB-16-13-001REV	ECM Reprogramming for Hard to Re-Start Engine with Low Coolant Temperature - Revised	2014–16 Outlander					
3/31/2016	TSB-16-00-002	Technical Specifications - 2017 Mirage	2017 Mirage					
3/31/2016	TSB-16-00-003	New Model Features and Service Information – 2017 Mirage	2017 Mirage					
4/11/2016	TSB-16-13-002	ECM Reprogramming for MIL Illumination with DTC P0139 or P0171	2014-16 Outlander					
4/29/2016	TSB-16-00-004	PDI Procedures for 2017 i-MiEV	2017 i-MiEV					
5/3/2016	TSB-16-00-005	New Model Features and Service Information – 2017 Mirage G4	2017 Mirage G4					
5/3/2016	TSB-16-00-006	2017 i-MiEV Service Manual Information - Service Manual Revision	2017 i-MiEV					
5/4/2016	TSB-16-37-001	Clicking Noise from Steering Wheel when Turning Either Direction	2014-15 Outlander Sport					
5/17/2016	TSB-16-00-007	Technical Specifications - 2017 Mirage G4	2017 Mirage G4					
5/17/2016	TSB-16-42B-001	2017 Mirage Body Repair Manual Information - Service Manual Revision	2017 Mirage					
5/26/2016	TSB-16-42B-002	2016 Outlander Sport Body Repair Manual Information - Service Manual Revision	2016 Outlander Sport					
5/26/2016	TSB-16-42B-003	2016 Outlander Body Repair Manual Information – Service Manual Revision	2016 Outlander					
5/26/2016	TSB-16-42B-004	2016 Lancer/Lancer Sportback Body Repair Manual Information - Service Manual Revision	2016 Lancer/Lancer Sportback					

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Since Tech Talk 219, the following TINs/ATINs have been released.

2016 Technical Information Notices and Advance Technical Information Notices								
Date Posted	Publication Number	Applicable Models						
3/7/2016	ATIN-16-SC-001-C	ECM Reprogramming for Engine Knocking Noise - Service Campaign - Revised	2014-15 Mirage					
3/11/2016	TIN-16-11-001	Temporary Back Order of Long Block Engine Part Number Listed in SC-16-001REV	2014-15 Mirage					
3/29/2016	TIN-16-54-001	Software Update for Head Unit in New Vehicles	2017 Mirage					
4/15/2016	TIN-16-54-002	Display Audio System with Smartphone Link (DAS) – Voice Recognition Cancelation Issue	2017 Mirage & Mirage G4					
4/18/2016	TIN-15-SR-004-F	Vehicles Affected by ABS Hydraulic Unit Safety Recall Campaign – "Remedy Available" Customer Letters	2006–2009 Eclipse, 2007–09 Eclipse Spyder					

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