



1992 Eclipse

TECH TALK

Volume 196, April, 2013

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Vehicle Technical Info

GROUP 11-Engine

4B1 ENGINE BLOCK CHANGES — 2008-10 Lancer based models, Outlander. Changes to the engine block of 2.0L and 2.4L 4B1 engines (including turbocharged versions) include removal of the timing chain oil jet nozzle and repositioning the oil outlet position, elimination of the upper timing chain guide and mounting holes and elimination of the lower oil pump chain guide and mounting holes. These changes have taken place over the last several model years and affect service parts as well as production. A new engine block will not have attachment holes for these parts. Reassemble the engine without using the oil jet, the upper timing chain guide, or the lower oil pump chain guide using procedures from the service manual and service manual revision TSBs. These changes have no negative impact on the engines performance or durability.

GROUP 35-Brakes

REAR BRAKE NOISE — 2011-12 Outlander Sport/RVR. A countermeasure has been developed for vehicles with rear brake noise when backing, especially during the first few applications in the morning, or after the vehicle has not been driven for several hours. If you encounter a vehicle with this condition, replace

the rear brake pads with part number 4605A265. **NOTE:** These parts will NOT fit 2013 Outlander Sport.

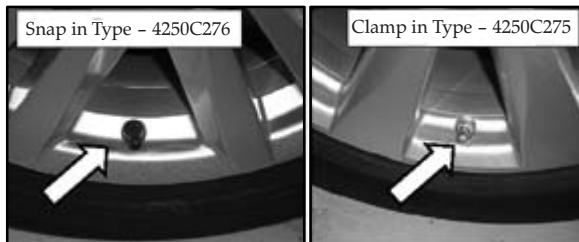
GROUP 42A-Body

TIN-13-42A-001: OUTLANDER SPORT TPMS SENSOR - TEMPORARY PRODUCTION (REVISED) — 2013 Outlander Sport/RVR. TIN-13-42A-001 was sent to all dealers on February 1, 2013 and states:

This document replaces TIN-12-42A-001 issued October 2012, to provide updated information about the use of temporary production and service parts being extended due to continued supply issues. Individual changes are not identified.

Due to a supply issue with the “snap-in” type Tire Pressure Monitoring System (TPMS) sensor, subject vehicles are temporarily being built using the 2012 “clamp in” type sensor. This change will affect production and service parts until the supply issue is resolved. An owner’s manual addendum card reflecting this change has been placed in the glove box of affected vehicles.

The TPMS sensor type can be easily identified by the valve stem.



This change is effective with the following vehicles:

- 18” alloy wheels: DE007466 built 10/18/2012
- 16” alloy wheels: DE007527 built 10/17/2012
- 16” steel wheels: DE007484 built 10/18/2012

This change will result in p/n 4250C276 being temporarily superseded to p/n

4250B975 in the service parts system. Once p/n 4250C276 becomes available, the supersession will be broken, allowing supply of both part numbers. If a replacement sensor is required, install p/n 4250B975. If a customer comments about the cosmetic difference, advise them the original specification sensor can be installed, at no cost to them, when inventory becomes available.

There is no affect to diagnostic or registration procedures. Both sensor types use the same diagnostic trouble codes and registration steps.



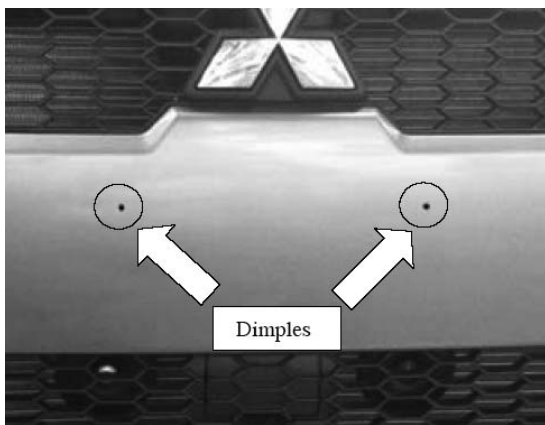
GROUP 51 – Exterior

TIN-13-51-001: 2013 OUTLANDER, LANCER AND LANCER SPORTBACK- FRONT LICENSE PLATE HARDWARE ELIMINATED (REVISED) 2013 Outlander, Lancer and Lancer Sportback. TIN-13-51-001 was sent to dealers February 6, 2013 and states:

“This notice replaces TIN-12-42A-002 issued November, 2012, to change the minimum length of recommended M6 fasteners.

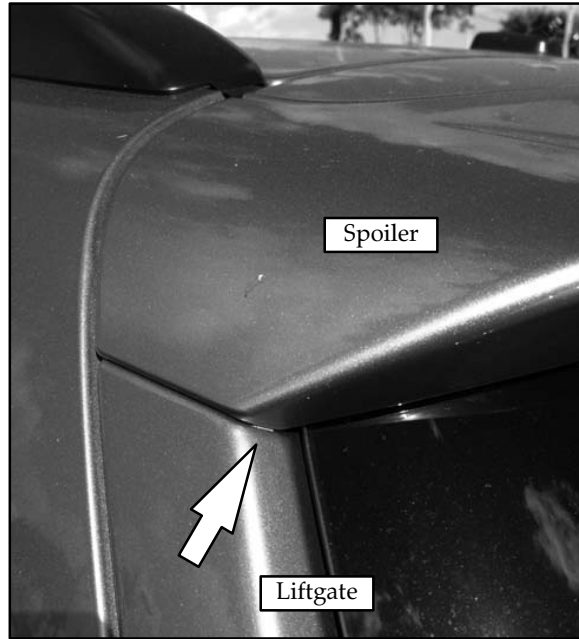
Affected vehicles are no longer shipped with front license plate hardware (rubber nut and bolt package). Dealers are asked to use self-tapping screws for mounting the front license plate. License plates should be installed in the locations indicated by dimples in the front fascia. Dealers should use locally sourced, non-corroding, M6 fasteners, 20mm to 25 mm long. **Fasteners should be installed using hand tools only.**

Please do not submit any claims for missing front license plate hardware.



Rear license plate mounting screws will continue to be shipped in the glove box.”

REAR SPOILER/TAILGATE RUB MARKS — 2011 to 2013 Outlander Sport/RVR w/factory installed rear spoiler. MMNA is investigating the cause of rub marks in the paint at the contact point between the factory installed rear spoiler and tailgate.



Do not replace the spoiler for this condition. Look for an upcoming publication to address this concern. In the meantime you can contact Techline for the latest information.

The accessory spoiler does not exhibit this condition.

DETACHED ALLOY FUEL DOOR — 2011-12 Outlander Sport. If you see a vehicle where the alloy fuel door has detached from the vehicle, it’s possible the spring and plunger have loosened and the door detached from the hinge when it opened. A production change was implemented April 9, 2012 to prevent the fuel door accidentally detaching in the open position. The assembly’s inner bracket was modified, and now features tabs to retain the fuel door. The door can now only be removed by complete disassembly. An updated alloy fuel door, p/n MZ314642, is available to fit 2011-12 vehicles.



GROUP 54 – Chassis Electrical

SPEED COMPENSATED VOLUME (SCV) AUDIO FUNCTION — 2008 & later Lancer based vehicles, 2007-13 Outlander, 2011 & later Outlander Sport/RVR. The level of volume change may be difficult to notice, leading to customer questions about the feature. Some dealers have confirmed the SCV function by operating the vehicle at

highway speeds and then turning the SCV on and off while listening for changes in the audio system (the changes can be very subtle).

For navigation systems on listed vehicles, press "set", "sound control", "audio control" then "Speed Compensated Volume & EQ On/Off". For the standard audio system, use the following instructions to turn SCV on or off.

1. Press and hold (approximately 2 secs.) the sound adjustment switch (RH knob).
2. Press the sound adjustment switch again to switch to the SCV setting screen.
3. SCV ON or SCV OFF is displayed.
4. Turn the sound adjustment switch to change between SCV ON and SCV OFF.
5. Press the sound adjustment switch or wait 10 seconds to return to the previous screen.

PROPER CONNECTION OF BATTERY CHARGING OR TESTING EQUIPMENT —

2011-2013 Outlander Sport/RVR. When connecting a battery charger or using test equipment that connects to the battery, make sure that you connect to the metal portion of the negative (—) battery post or cable. If you connect to the gray plastic support under the cable connection, you may cause improper test results or incomplete battery charging.



CHARGING THE AUXILIARY (12V) BATTERY

— 2012 i-MiEV. When charging the auxiliary battery on i-MiEV, make sure you remove the negative (—) cable from the battery. Not doing so can damage the on board charging system.

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GROUP 60 – Recalls

ATIN-13-SR-001: 2012 I-MIEV VACUUM PUMP SAFETY RECALL — 2012 i-MiEV.

ATIN-13-SR-001 was sent to dealers February 19, 2013 and states:

“A safety recall campaign will be released today for the brake vacuum pump equipped on 2012 i-MiEV vehicles built from December 2, 2011 – September 7, 2012. **Do not deliver any 2012 i-MiEV built from December 2, 2011 – September 7, 2012 until this recall has been performed.** This recall campaign will be conducted in the U.S. and Canada. The Recall Bulletin outlining the repair procedure will be available today on MEDIC and MDL.

Certain vacuum pumps on affected 2012 i-MiEV vehicles may become inoperable due to failure of an internal component. If the vacuum pump becomes inoperable, the brake warning light will illuminate and the brake warning buzzer will alert the vehicle operator. Vacuum pump inoperability will result in reduced brake power assist which may increase stopping distances and could lead to greater risk of crash.

New vacuum pumps must be installed on all affected 2012 i-MiEV vehicles.

Affected new vehicle inventory VINs can be reviewed on the Mitsubishi Dealer Link in the Open Recalls List available under the service section of “e-reports” beginning today. Dealers must review the Warranty Superscreen to confirm if any vehicles in their new or used vehicle inventories are affected, and conduct this campaign prior to delivering them.

Notification letters will be sent to owners of affected vehicles starting February 26, 2013, requesting their vehicles be brought to a local certified i-MiEV dealer for repairs. Owners will be instructed to contact their local certified i-MiEV dealer immediately if the brake warning light is illuminated and the warning buzzer is heard.

Certified i-MiEV dealers will automatically receive an initial quantity of parts to complete the recall on in-stock dealer units, shipped the week of February 18, 2013. Certified i-MiEV dealers are requested to check their Open Campaign List on the MDL and contact customers of affected vehicles to schedule an appointment to have the recall completed. Once the customer appointment is confirmed, the dealer must contact their facing PDC with the corresponding VIN information and an order will be placed. Please refer to Parts Bulletin 35-IM-01-13 for additional information.

IMPORTANT - Affected new or used inventory vehicles must be repaired before the vehicle is delivered. Dealers must check their inventory vehicles' VINs on the Warranty Super Screen to verify whether the vehicle is involved in this recall campaign. It is a violation of Federal law for a dealer to deliver a new motor vehicle or any new or used item of motor vehicle equipment (including a tire) covered by the notification under a sale or lease until the defect or noncompliance is remedied."

IMPORTANT - Affected new or used inventory vehicles must be repaired before the vehicle is delivered. Dealers must check their inventory vehicles' VINs on the Warranty Super Screen to verify whether the vehicle is involved in this recall campaign. It is a violation of Federal law for a dealer to deliver a new motor vehicle or any new or used item of motor vehicle equipment (including a tire) covered by the notification under a sale or lease until the defect or noncompliance is remedied."

TIN-13-SR-002: CUSTOMER NOTIFICATION - 2012 I-MIEV VACUUM PUMP SAFETY RECALL — 2012 i-MiEV. TIN-13-SR-001 was sent to dealers February 19, 2013 and states:

TIN-13-SR-004: 2012 I-MIEV VACUUM PUMP SAFETY RECALL (REVISED) — 2012 i-MiEV. TIN-13-SR-004 was sent to dealers March 5, 2013 and states:

"Safety recall campaign SR-13-001 for the brake vacuum pump equipped on 2012i-MiEV vehicles built from December 2, 2011– September 7, 2012 was released to Certified i-MiEV dealers on February 19, 2013.

"This notice supersedes ATIN-13-SR-004 issued March, 2013, to add information regarding identification of affected and replacement parts. Individual changes are not identified.

Customer notification letters will be mailed today. As a result, you may get an influx of calls from customers of affected vehicles.

Safety recall campaign SR-13-001REVII for the brake vacuum pump equipped on 2012 i-MiEV vehicles built from December 2, 2011 – September 7, 2012 will be released to Certified i-MiEV dealers today.

It is extremely important that these calls are handled in a professional manner and the necessary parts are ordered **immediately**.

This revision reminds service technicians to note the location of the vacuum pump hose and vacuum hose clamp to ensure proper reinstallation.

Once the customer appointment is confirmed, you must contact your facing PDC with the corresponding VIN and an order will be placed. Please refer to Safety Recall Bulletin SR-13-001 and Parts Bulletin35-IM-01-13 for additional information.

The verification procedure for a replacement vacuum pump has also been updated. After successively depressing the brake pedal three times, if the brake warning buzzer beeps intermittently or no beep is heard, and the brake warning lamp flashes intermittently or does not illuminate, this condition indicates normal operation. If the brake warning buzzer continuously sounds, or the brake warning lamp is continuously illuminated, this condition indicates abnormal operation and troubleshooting per the service manual is required.

After the repair is completed, please ensure the Main Drive Battery is fully charged prior to vehicle delivery. If the vehicle cannot be immediately repaired, the Main Drive Battery should be charged while the vehicle is waiting for repairs. This will limit customer inconvenience and maximize customer satisfaction.

Refer to the campaign bulletin for details."



MEDIC Information MEDIC Hotline (800) 846-7575	Call the MEDIC Hotline for <u>ALL MEDIC & Scan Tool hardware or software issues</u> . Call TECHLINE for vehicle technical issues.
	As of 3/19/13: Total Hits - 6051 Reflash Database - N13021 MEDIC 3 Version - 3.2 MEDIC 3 Update - 176 MUT-III Version - 28.0 Raider Scan Tool Version - 6.0

Training News

Technical Training Schedule April — May, 2013

Mobile Training does not appear on these calendars. Contact your District Parts & Service Manager for information about mobile training in your area.

East Zone - N.J. Tech Training Center

East Zone - Atlanta Tech Training Center

April				
M	T	W	Th	F
1	2	3	4	5
MFIT2				
8	9	10	11	12
MEVTT		MACT		
15	16	17	18	19
ES3		ES3		
22	23	24	25	26
STV3	MED2			
29	30	1	2	3
ES2				

May				
M	T	W	Th	F
29	30	1	2	3
ES2				
6	7	8	9	10
13	14	15	16	17
MFIT2				
20	21	22	23	24
TC-SST		TC-SST		
27	28	29	30	31
H	EN1			

April				
M	T	W	Th	F
1	2	3	4	5
		STV3	MED2	SP3
8	9	10	11	12
15	16	17	18	19
MED2	STV3	SP3	ES3	
22	23	24	25	26
		AT2		AT3
29	30	1	2	3
ES2		MEVTT		

May				
M	T	W	Th	F
29	30	1	2	3
ES2		MEVTT		
6	7	8	9	10
13	14	15	16	17
MFIT2				
20	21	22	23	24
TC-SST		TC-SST		
27	28	29	30	31
H	MACT		AACT1	

West Zone-Dallas Tech Training Center

California Technical Training Center

April				
M	T	W	Th	F
1	2	3	4	5
AED		SP3		
8	9	10	11	12
15	16	17	18	19
ES3	MTT			
22	23	24	25	26
STV3	EN1			
29	30	1	2	3
AT2T		AT3		

May				
M	T	W	Th	F
29	30	1	2	3
AT2T		AT3		
6	7	8	9	10
13	14	15	16	17
MACT	AACT1	ABS2		
20	21	22	23	24
TC-SST		CVTT		
27	28	29	30	31
H	TC-SST		AT3	

April				
M	T	W	Th	F
1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
29	30	1	2	3
ES2		SP3		

May				
M	T	W	Th	F
29	30	1	2	3
ES2		SP3		
6	7	8	9	10
13	14	15	16	17
20	21	22	23	24
27	28	29	30	31
H				

Days	Code	Prerequisites	Days	Code	Prerequisites
Automatic Transaxles			Heating & A/C Systems		
40/50 Series Diagnosis & Repair	3	AT2T ATFT1 or ATFWE or ATFWE or ATFB	Manual A/C Systems	2	MACT
50 Series 5-speed Diagnosis & Repair	1	AT3 AT2	Automatic A/C Systems	1	AACT1 ES1W
CVT Diagnosis & Repair	2	CVTT ATFT1 or ATFWE or ATFWE or ATFB	Manual Transaxles		
Brakes			Manual Transaxles & Transfer Cases	3	MTT
Antilock Brakes	2	ABS2 ES1W	Twin Clutch Sportronic Shift Transmission	2	TC-SST ES1W, ES2, STV3, MED2, MED3, ATFE, MTT
Electrical Systems			Vehicle Specific		
Electrical Systems 2	3	ES2 ES1W	Eclipse Spyder Convertible Top (Top Stack)	1	SP3
Electrical Systems 3	2	ES3 ES1W, ES2	Mitsubishi Electric Vehicle Technician Training	2	MEVTT AESP, ES1W, ES2, STV3, MED2, MED3, 120
Engine Performance			Vehicle Diagnostics		
Advanced Emission Diagnosis	3	AED ES1W, STV3, MFIT2	Advanced Electronic Service Procedures	-	AESP

- NEWS:**
- The new Twin-Clutch - Sportronic Shift Transmission course (course code TC-SST) is available for enrollment on mitsubishiacademy.com. This 2-day instructor-led course is designed to familiarize technicians with the TC-SST and provide hands-on activities to enhance understanding of the assembly and its operation. Diagnosis and replacement of the Clutch and Mechatronic Assemblies is included. Prerequisites for the course are: • Electrical Systems Part 1 (ES1 or ELFB or ES1W), • Electrical Systems Part 2 (ES2), • Scan Tool Viewer (STV or STV2 or STV 3), • MEDIC 2 (MED2), • MEDIC 3 (ME3W), • Automatic Transmission Fundamentals (ATF or ATFWE or ATFB), • Manual Transaxles and Transfer Cases (MTT). Enroll today as this course is expected to fill up quickly.

Tips From the Toolman

NEW TOOLS FOR TC-SST CLUTCH REPLACEMENT

MMC recently made parts available for replacement of the TC-SST transmission clutch assembly. To support this repair, MMNA released TSB-13-22-002 to provide concise instructions for this procedure, and TSB-13-22-003 which revises the service manual and includes clutch DTC and symptom diagnosis steps as well as the clutch replacement procedure.

ESSENTIAL TOOL SHIPMENT

For U.S. Market

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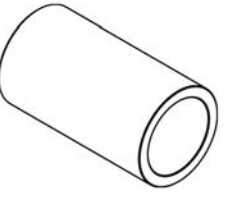
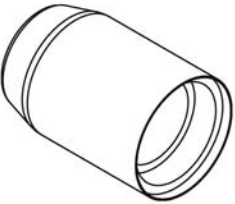
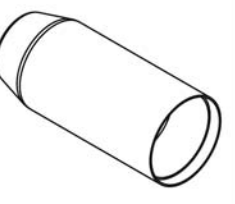
IMPORTANT SERVICE INFORMATION - ALL SERVICE PERSONNEL SHOULD READ, INITIAL, THEN FILE FOR FUTURE REFERENCE.

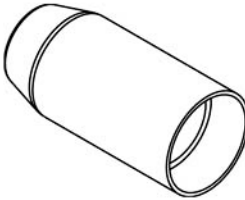
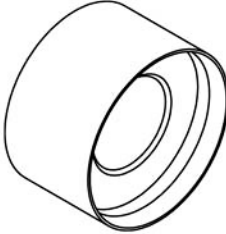
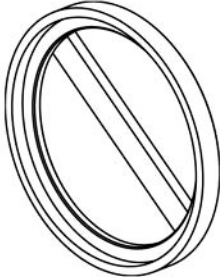
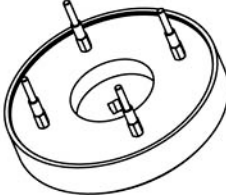
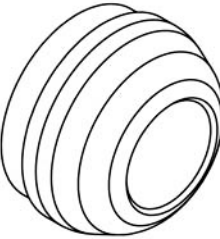


Mitsubishi Motors North America Essential Tool Shipment

Mitsubishi Motors North America has classified the following tools as essential service tools.

This is the Essential Tool shipment for the TC-SST GETRAG (W6DGA) transmission present in the Lancer Ralliart (GS41) and Lancer Evolution (GS41E)

	<p>MB992310-01 Installer, Oil Seal</p> <p>Application: TC-SST GETRAG (W6DG6)</p> <p>Essential Price: \$42.17 US</p> <p>Notes: This tool is used for the installation of the transaxle case (LH) oil seal.</p>		<p>MB992312-01 Installer, Oil Seal</p> <p>Application: TC-SST GETRAG (W6DG6)</p> <p>Essential Price: \$45.17 US</p> <p>Notes: This tool is used for the installation of the transaxle case (RH) oil seal.</p>
	<p>MB992311-01 Guide, Oil Seal</p> <p>Application: TC-SST GETRAG (W6DG6)</p> <p>Essential Price: \$31.33 US</p> <p>Notes: This guide is used for the installation of the transaxle case (LH) oil seal.</p>		<p>MB992313-01 Guide, Oil Seal</p> <p>Application: TC-SST GETRAG (W6DG6)</p> <p>Essential Price: \$61.47 US</p> <p>Notes: This guide is used for the installation of the transaxle case (RH) oil seal.</p>

	<p>MB992314-01 Guide, V Ring Application: TC-SST GETRAG (W6DG6) Essential Price: \$43.53 US Notes: This guide is used for the installation of the V-ring.</p>		<p>MB992325-01 Guide B, Seal Cover Application: TC-SST GETRAG (W6DG6) Essential Price: \$16.59 US Notes: This guide is used for the installation of the seal cover. It is used with MB992324-01.</p>
	<p>MB992323-01 Installer, Seal Cover Application: TC-SST GETRAG (W6DG6) Essential Price: \$108.98 US Notes: This tool is used for the installation of the seal cover.</p>		<p>MB992332-01 Remover & Installer, Clutch Application: TC-SST GETRAG (W6DG6) Essential Price: \$91.17 US Notes: This tool is used for the removal and installation of the clutch assembly.</p>
	<p>MB992324-01 Guide A, Seal Cover Application: TC-SST GETRAG (W6DG6) Essential Price: \$14.59 US Notes: This guide is used for the installation of the seal cover. It is used with MB992325-01.</p>	<p>Organizational Materials for MIT-TCSST-KIT</p> <p>The following items are included:</p> <ul style="list-style-type: none"> • 567884 Flyer • 17889 Carton • 219438 Label 	
<p>567884 REVA</p>			
<p style="text-align: center;">BOSCHAUTOMOTIVE SERVICE SOLUTIONS</p> <p style="text-align: center;">28635 MOUND ROAD • WARREN, MI 48092-5509 PHONE 888-727-6672 • FAX 586-578-7375</p> <p style="text-align: center;">All Tools May Not Be Included In this Shipment. Check Packing Slip for Tools Actually Shipped.</p> <p style="text-align: center;">Phone 1-888-727-6672 • Fax 1-586-578-7375</p>			

Essential special tools for successfully completing this procedure were shipped to all dealers the week of March 11, 2013.

These and other “Essential” and “available” tools are available from Bosch Automotive Service Solutions (formerly SPX). Contact them at 1-888-727-6672 regarding these and any other special tool questions.

Bulletin Review

The following information was recently released:

Number	Title	Vehicles	Subject
TSB-13-00-002	2013 Outlander Sport Limited Edition Update-SMR	2013 Outlander Sport	Adds information regarding the mid-year introduction of 2013 Outlander Sport LE
TSB-13-00-004	New Model Features & Service Information - 2013 Outlander Sport/RVR (REVISED)	2013 Outlander Sport	Adds information regarding the mid-year introduction of 2013 Outlander Sport LE
TSB-13-11-002	Balancer & Oil Pump Module for 4B11 Engine - SMR	2013 Outlander Sport	Adds removal and installation instructions for mid-year introduction of balance shaft module to some trim levels.
TSB-13-11-002	Timing Chain Oil Jet Nozzle - SMR	All with 4B1 4 cylinder engines (inc. turbo models)	Changes the service manual to show the oil jet nozzle is eliminated in production.
TSB-13-13-003	Engine Oil Capacity: 4B11 Engine With Balancer Module - SMR	2013 Outlander Sport	Corrects the engine oil capacity for affected vehicles.
TSB-13-13-004	PCM Reprogramming for DTC P2181 - Cooling System Performance	2007 Raider	Provides field fix information to reprogram the PCM to correct for MIL illumination and DTC P2181.
TSB-13-22-002	TC-SST Transmission Clutch Assembly Replacement Procedures	2008-13 Lancer Evolution, 2009-13 Lancer RAE, 2010-13 Lancer Sportback RAE	Provides enhanced instructions for replacing the TC-SST clutch assembly.
TSB-13-22-003	TC-SST Diagnosis and Overhaul - SMR	2008-10 Lancer Evolution, 2009-10 Lancer RAE, 2010 Lancer Sportback RAE	Updates the service manual with TC-SST diagnosis and overhaul procedures
TSB-13-42A-003	RKE Integrated Key Case and FAST Key Case Service Parts Availability	All models	Revises TSB-09-42A-003 to include new models and add FAST key information
TSB-13-55-001	Torque Specifications for A/C Control Unit Mounting - SMR	2012 i-MiEV	Corrects the torque specifications for mounting the A/C control unit to the vehicle.
TSB-13-55-002	Torque Specifications A/C Refrigerant Line Fitting - SMR	2011-13 Outlander Sport	Corrects the unit of measure for the refrigerant line torque spec. from ft. lbs to in. lbs.
SR-13-001REVII	2012 iMiEV Vacuum Pump - Safety Recall Campaign (Revised)	2012 i-MiEV	Clarifies the vacuum pump hose installation procedure.



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The information contained in this bulletin is subject to change. For the latest version of this document, go to the Mitsubishi Dealer Link, MEDIC, or the Mitsubishi Service Information website (www.mitsubishitechinfo.com).