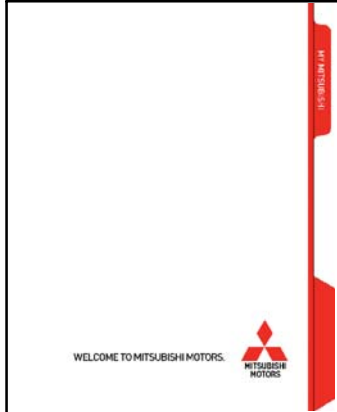




Technical Service Bulletin

SUBJECT:			No: TSB-11-00-005
GENERAL PDI PROCEDURES FOR 2012 MODELS			DATE: February, 2011
			MODEL: All 2012 Models
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input checked="" type="checkbox"/> SALES MANAGER

PURPOSE



This bulletin contains general Pre-Delivery Inspection (PDI) procedures, both technical and detail, for **2012 model year** Mitsubishi vehicles. If required, additional Technical Service Bulletins will be issued for model-specific PDI procedures.

Diamond Care Delivery System (DCDS) folders, containing a Pre-Delivery Inspection form, and a Sales Delivery form, should be used for all PDIs.

Note: Additional DCDS folders and forms may be ordered from Image Printing Solutions by clicking the link on the main page of the MDL. If you need help with ordering, contact them at 1-800-924-1350, or at <https://mmna.imgps.com>, for assistance.

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BACKGROUND INFORMATION

The PDI processes described in this bulletin were developed to ensure a “fault-free” delivery. The technical and detail procedures are divided into separate sections of this bulletin.

This bulletin contains general descriptions of most required Technical and Detail inspection checks organized in a logical and time-efficient order. It is critical that all the steps are completed **while keeping the vehicle clean inside and out during the entire PDI process**. Model specific PDI bulletins and PDI Update bulletins supplement this bulletin when required.

NOTE: You can search for PDI bulletins in Group 00, General, either in the MEDIC TIR function, or on the Mitsubishi Dealer Link, Service Technical Resources page.

The PDI process is important. Remember to:

- Avoid pressure to rush through PDI.
- Never skip steps on the PDI form.

Once you are familiar with these procedures, the PDI form acts as a guide to the process.

After reviewing this bulletin and any update and/or model-specific PDI bulletins, complete the 2012 PDI quiz from the Mitsubishi Academy at www.MitsubishiAcademy.com, if you haven't already done so.

NOTE: If any repairs are needed, ensure they are made before the customer takes delivery of the vehicle. Any defects in materials and/or workmanship discovered during PDI should be corrected and claimed under warranty. Adjustments and repairs are not part of the PDI flat rate time.

PROCEDURE

Technical Inspection

The Detail Specialist should complete the DETAILING BEFORE PDI steps before handing the vehicle off to the Technician for PDI Technical Inspection. Refer to the Detail Inspection section of this bulletin for complete detailing information for both before and after Technical Inspection.

Use the PDI form and PDI bulletins as a guide. After completing each step, check-off that procedure on the form. The sequence in which you perform the steps may vary depending on your dealership's procedures, facilities, and the vehicle itself. Be sure that all pertinent steps are checked on the form. Be sure the PDI form is signed and dated, and a copy filed in the “vehicle packet” and service file at your dealership.

IMPORTANT: DO NOT offer any vehicle for sale if it has an outstanding recall campaign. To do so subjects the dealer to large fines. Check the Superscreen for possible outstanding recalls.

BEFORE YOU START

Make sure the following information is recorded in the proper spaces on the PDI form.

- Vehicle Identification Number (VIN)
- Dealer stock number
- Model
- Ignition key code
- Model Year

A. VEHICLE READINESS

Before you start the inspection, retrieve the wheel covers, license plate bracket, radio antenna, and any other shipped loose items from the trunk as applicable.

1. **Engage (*push down*) the IOD connector.** On most vehicles, the IOD connector is in the relay box under the hood. Make sure that all doors and the trunk/hatch are closed. The ignition switch must be off when engaging the IOD connector.
2. **Start the engine to check cold start engine performance.** The engine should start quickly using all keys (or transmitters). It should idle smoothly and not have any hesitation or unusual noise when accelerated.

Immobilizer

Separate ALL keys (or transmitters) and, confirm that ALL start the engine without stalling.

If the vehicle is equipped with the F.A.S.T. System or O.S.S., separate the transmitters and enter the vehicle with only one transmitter at a time. Ensure the vehicle starts and does not stall, in both keyless operation mode and using the emergency key (if equipped).

If the vehicle starts, then stalls, one or more keys may not have been registered, or there may be an immobilizer system problem. Refer to the service manual for diagnostic procedures, and use *MEDIC* and/or the Mitsubishi Dealer Link (MDL) site to search for TSBs relating to immobilizer system and immobilizer key registration policies and procedures.

3. **Install all shipped loose items (floor mats, antenna masts, wheel covers, wheel caps, front license plate anchors, etc.)**
4. **Refer to MEDIC, or the Mitsubishi Dealer Link for any general or model-specific PDI TSBs. Be sure all instructions on the TSBs are performed.**



B. INTERIOR – FUNCTIONAL OPERATION

⚠ WARNING *Apply the parking brake and run the engine at idle while doing this inspection.*

1. Check **WINDOW, SEAT ADJUSTMENT, AND SEAT BELT** operation.

WINDOWS: Check for proper window tracking, complete up and down travel, and proper sealing.

NOTE: *For vehicles with power windows, check the lockout and AUTO-down & up (if equipped) functions.*

For power windows equipped with AUTO-up functions, check that the safety mechanism functions normally. Refer to Group 42 – BODY, in the Service Manual for the proper checking procedure.

SEAT ADJUSTMENT AND SEAT BELT/HEAD RESTRAINT OPERATION.

- a. Make sure the seat backs for driver and front passenger adjust and lock in all positions.
- b. Confirm the seat track adjusters operate and lock throughout their entire travel (front seats). Leave the seat height adjuster (if equipped) in the lowest position for maximum head room.
- c. Check power seat operation (if equipped).
- d. Check heated seat operation (if equipped).
- e. Check HEAD RESTRAINTS
Ensure all head restraints are properly installed. Inspect the height adjustment for ease of operation.

- f. Check ALL SEAT BELTS for condition and operation.
- Inspect all seat belts and harnesses to ensure they connect and hold properly.
 - Inspect operation of the height adjuster and condition of the seat belts, and anchors.
 - Inspect for proper seat belt retraction.
 - Check that safety labels regarding use of seat belts and air bags are in place.
2. **Check SUNROOF, Panoramic Roof Panels, or CONVERTIBLE TOP operation (if equipped).** Ensure all controls work properly, including one-touch operation. Ensure the sunroof closes tightly, and the tilt-up feature (if equipped) works. Open and close the sunroof a number of times to ensure the timing of the functions works properly. The panoramic roof panel is equipped with one-touch closing. **Ensure that the sunroof or panoramic roof panel safety mechanism functions properly. Refer to the applicable service manual and and perform the test for your specific vehicle.** For convertibles, ensure all windows lower automatically when opening and closing the top. Check convertible top latch operation.

NOTE: If adjustments are required, refer to the appropriate service manual procedures and submit a warranty claim for adjustment.

3. **INTERIOR AND INSTRUMENT PANEL LIGHTS**

Check that all interior lights operate:

- Dome light(s)
- Map light(s)
- Vanity mirror light(s)
- Instrument panel illumination and dimmer function
- Glove box light (if equipped)
- Door courtesy lights
- Passenger airbag system lights
- Cargo area light (if equipped)
- Panoramic roof ambient lighting (if equipped)
- Accessory interior lighting (if equipped).

NOTE: Leave the instrument panel illumination on the brightest position. Position the dome light switch so that the light is on when the door is open and off when the door is closed.

4. **INSIDE AND OUTSIDE MIRRORS.** Check and adjust exterior mirrors. Ensure the inside rear view mirror holds its adjustment. Make sure the anti-glare, Homelink® and backup camera functions operate properly (if equipped).
5. **HORN.** Ensure all horn buttons are functional.
6. **AUXILIARY ACCESSORY SOCKET(S) (if equipped).** Check the auxiliary accessory sockets (if equipped) for proper operation.
7. **SET CLOCK AND ALL RADIO STATION PRESETS.** Set the clock to the correct time. Set ALL “AM”, “FM1”, & “FM2” preset buttons to a variety of strong local stations.
8. **AUDIO SYSTEM OPERATION (INCLUDING SIRIUS™ SATELLITE RADIO OPERATION if equipped).**

Check **radio** and **speaker** operation for:

- Volume
- Reception of AM & FM stations and SIRIUS™ satellite radio (if equipped).
Ensure the satellite radio operates by tuning to channel 184, Emergency/News, to verify.
Satellite radio reception must be checked outside with a clear view of the Southern sky.
- Tone (bass & treble)
- Balance/Fader Controls

- CD player, including CD-changer (if equipped)
- Rattling or vibrating speakers
- Check function of “AUX” and USB inputs
- Check FUSE Handsfree Link System™ responds to voice commands

NOTE: Adjust the treble, bass, balance, and fader controls to their center position after radio inspection.

9. **MITSUBISHI MULTI-COMMUNICATION SYSTEM (MMCS) (if equipped)**

- a. Make sure the navigation screen displays your location when the **NAVI** button is pressed.

NOTE: The navigation system and Satellite radio may not operate properly if the vehicle is in an enclosed area. This includes being surrounded by tall buildings. The default navigation location will be New York, NY. If this is not your location, move the vehicle to an open area with a clear view of the Southern sky and recheck.

10. **MULTI-INFORMATION DISPLAY (if equipped)**



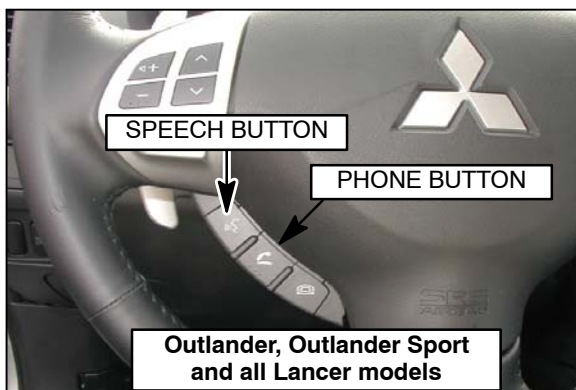
Verify the screens are in English. If needed, the language can be changed to French, Spanish, Japanese, German or Italian. Refer to the owners manual for more information.

11. **REAR-VIEW CAMERA SYSTEM (if equipped)**

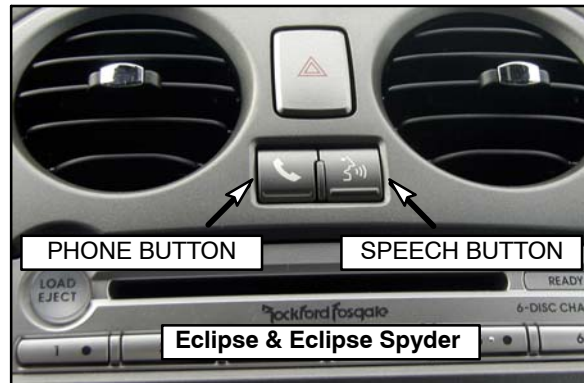
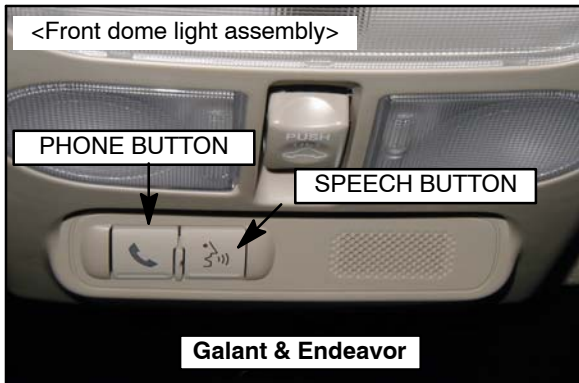
Turn the ignition switch to the ON position. Shift into reverse. Confirm the reverse image is clearly displayed either the rear view mirror window (Eclipse models) or center display (all others).

12. **HANDS-FREE TELEPHONE (if equipped)**

NOTE: Some models place the hands-free control switches on the steering wheel if the vehicle is *pre-wired* for handsfree operation. This does not mean the vehicle is hands-free equipped. **Refer to the Monroney label to determine if the vehicle is equipped for Hands-Free telephone use.**



Depress the **SPEECH** button. You will receive an audible response advising that the system is connected and ready. Say **CANCEL** to exit.



13. **PASSENGER AIRBAG AND SEATBELT LIGHT FUNCTIONS.**



Have someone sit in the front passenger seat and verify the passenger airbag light goes out. Verify the passenger seat belt reminder light comes on when their seat belt is unfastened, and goes off when their belt is fastened.

14. **REAR WINDOW DEFOGGER and HEATED DOOR MIRROR (if equipped).** Check with the engine running. Turn the rear window defogger on, allow time for the defogger and mirror to warm up and check them during the walk around inspection. Place your hand on the rear window defogger and heated door mirror (if equipped) to ensure it is heating. Be sure to turn off the defogger after checking. Turn the ignition switch off.



C. WALKAROUND INSPECTION

Before starting this section, ensure the engine is OFF, then turn the ignition switch to the "ON" position and place the transmission selector in "R" (reverse) with the parking brake applied. **DO NOT START THE ENGINE.**

1. **Check EXTERIOR LIGHTS.** Ensure ALL exterior lights operate properly. Check for chipped or cracked lenses. On vehicles with AUTO-OFF headlights, turn on the headlights and turn the ignition OFF. The headlights, side-marker lights, and taillights should turn off when the driver's door is opened. Be sure to turn ALL lights OFF after completing inspection. Return the transmission selector to "P" (park).

Turn the ignition switch to the "OFF" position.

2. **REMOTE KEYLESS ENTRY (RKE) or FREE-HAND ADVANCED SECURITY TRANSMITTER (F.A.S.T.) SYSTEM, THEFT ALARM SYSTEM, ALL DOOR LOCKS, LATCHES, ONE-TOUCH STARTING SYSTEM (O.S.S.) & IMMOBILIZER**

RKE (if equipped)

Check the door and trunk (if equipped) locking and unlocking features.

Ensure the key is removed from the ignition. Close all doors and trunk.

- Press the "lock" button once to lock all doors.
- Pressing the "unlock" button once unlocks the driver's door, and pressing it twice unlocks all doors and the liftgate (if equipped).
- For remotes with 3 buttons, the third button unlocks the trunk. Press the "trunk" button twice to open the trunk.
- Press the "Panic" button (if equipped) for 2 seconds to test the panic alarm. Press again to turn off the panic alarm.

NOTE: Factory-installed RKE systems have an “answerback” feature which can be customized for various answerback functions, depending on the model and system installed. Ensure the vehicle’s answerback feature is in the full-function answerback mode, where both the horn and parking lamps signal when the doors are locked. Refer to the vehicle owner’s manual for programming information.

F.A.S.T. (if equipped)

- a. Install the knob on the end of the ignition lock cylinder.
- b. Ensure door locks operate properly using the F.A.S.T. key.
- c. Ensure door locks operate properly using the lock/unlock buttons located on both front outer door handles.

NOTE: The default mode for the F.A.S.T. Key system unlocks only the door where the button is pressed.

O.S.S. (if equipped)

- a. With the shift lever in P, depress the brake pedal and press the engine start/stop switch. The vehicle should start.
- b. Press the engine start/stop button again to turn the engine off.
- c. With the shift lever in P, release the brake pedal and press the engine start/stop switch. The engine does not start and the LED in the button lights amber (ACC mode).

Press the button again and the LED changes to green (ON mode).

Press the button again and the LED turns off.

- d. Start the vehicle, depress the brake pedal and shift to D. Depress the engine start/stop switch for 1 second. The engine should stop and the light in the switch turns amber.

Theft Alarm (if equipped)

Vehicles with standard security system

- a. Lower the driver’s window. Remove the key from the ignition switch and exit the vehicle.
- b. Close all doors and lock them using the transmitter. The security indicator on the instrument panel will be lit for about 20 seconds and then blink at a slow rate when armed.
- c. Reach through the open window, manually unlock the door, and then open it. The alarm horn should sound and the headlights should flash.

TO DEACTIVATE THE ALARM:

Press the unlock button on the transmitter, or turn the ignition switch to the ACC or ON position (transmitter must be present if equipped with F.A.S.T.).

- d. Repeat steps a. through c. on the front passenger’s door and lock.
- e. Repeat steps a. through c. using the trunk remote release and trunk lock.
- f. Repeat steps a. through c. on the hood release.

Vehicles with Premium Security Alarm System

Intrusion Inspection

- a. Open the driver’s window and exit the vehicle.
- b. Close all doors and lock them using the F.A.S.T. Key transmitter. The security indicator on the instrument panel will be lit for about 20 seconds and then blink at a slow rate when armed. **Place the F.A.S.T. Key transmitter at least 5 feet from the vehicle.**

c. Reach through the open window. The alarm siren should sound.

d. DEACTIVATE THE ALARM:

Press the unlock button on the remote, or turn the ignition switch to the ACC or ON position (transmitter must be present if equipped with F.A.S.T.).

Tilt Sensor Inspection

a. Repeat steps a & b above.

b. Jack up the front or rear of the vehicle. The alarm should sound.

d. Deactivate the alarm.

Door Locks & Latches

Close each door to check the latch and lock mechanisms. If adjustments are required, refer to the appropriate service manual. Submit a warranty claim for any adjustment performed.

Child Safety Door Lock Operation

The rear door should not open from inside when the lever (located on the inside rear area of the door near the latch mechanism) is in the lock position.

NOTE: Set the lever to the unlock or "FREE" position when you are finished checking its operation.

Fuel Filler Door

For vehicles with remote fuel door release, pull the release lever and make sure the fuel door opens. Close the door and verify it latches properly.

For vehicles without remote release, make sure the fuel door opens and closes properly.

3. **REMOTE ENGINE START (if equipped)**

a. Remove the key from the ignition, close all doors, hood and the trunk(liftgate). For Endeavor, confirm the dome light is in the ROOM position.

b. Start the engine using the remote transmitter. Confirm the hazard lights flash once while the engine is starting.

c. Stop the engine using the remote transmitter.

d. Open one door and confirm the engine will not start with the remote transmitter.

4. **TRUNK/HATCH/LIFTGATE, TRUNK LIGHT AND TRUNK/CARGO AREA TRIM APPEARANCE**

Check for trunk/hatch/liftgate closing quality (make sure it closes easily) and fit. Fit should be uniform.

a. Check the operation of the remote trunk release (if equipped).

b. Verify trunk light (if equipped) comes on and all trim is installed properly.

5. **Check REAR WINDOW WASHER FLUID (if equipped)**

Top off the fluid if necessary.

6. **Check TAILGATE LATCH operation**

Make sure the tailgate closes with normal effort.

7. **EMERGENCY INSIDE TRUNK RELEASE HANDLE (if equipped)**

Check the operation of the emergency inside trunk release handle. Open the trunk lid and trip the latch by pushing on the catch with the shaft of a screwdriver to simulate trunk closure. Remove the screwdriver with the latch in the closed position, and verify emergency trunk release using the release handle. For more information about the Emergency Inside Trunk Release, refer to the vehicle's owner's manual.

8. **SPARE TIRE PRESSURE, WHEELS, JACK, TOOLS**

Spare Tire Pressure

Some models require removal of the spare tire for tire pressure adjustment. Ensure the tire hold down is secure after reinstalling the spare tire.

Jack & Tools

Check for jack and tools. On cars & Outlander Sport, the tools and jack are in the trunk. For other vehicles:

- Outlander – tools and jack are behind the access panel in the right hand quarter trim.
- Endeavor – The jack is under the rear seat. Tools are under the cargo area floor with the spare tire.

Insure that they are properly secured and will not rattle or come loose. Refer to the vehicle owner's manual or model-specific PDI related TSBs, if any, for more information concerning jack and tool location.



D. UNDERHOOD

IMPORTANT: Use fender covers to protect the vehicle body.

1. **Check BATTERY charge using your Midtronics Battery Tester.** Check that the battery cable terminals, and additional wires attached to the positive terminal are tight and that the battery is secure in the tray.

Ensure the battery is fully charged (minimum 12.4 V). If charging is necessary, follow the service manual procedures and recharge the battery. Remove the battery maintenance tag (if equipped) and file it in the vehicle file with other PDI documentation.

2. **Check ENGINE OIL**
Check engine oil level. If oil is needed, check the appropriate Service Manual for correct grade of oil.
3. **BRAKE, CLUTCH, AND POWER STEERING FLUID**
Check the fluid levels on the scale on the plastic reservoir of both master cylinders (brake and clutch). They should both be at the FULL mark. Fill if necessary.

NOTE: Use either DOT 3 or DOT 4 brake fluid (genuine Mitsubishi BRAKE FLUID, part number MZ311987 or equivalent).

- a. Check power steering fluid. It should be at the proper level on the dipstick or on the scale on the plastic reservoir. Use genuine Mitsubishi Power Steering Fluid, part number 4039645.

4. **Check COOLANT AND WINDSHIELD WASHER FLUID**
Add fluid if necessary.
COOLANT –: For all Lancer-based models, Outlander and Outlander Sport, use **only** DiaQueen Super Long Life Coolant (genuine Mitsubishi COOLANT, part number MZ320125). For all others use a 50/50 mix of long life coolant (genuine Mitsubishi Long Life Coolant, part number MZ311986, or equivalent).

WASHER FLUID – Use genuine Mitsubishi Washer Fluid (part number ACH3ZC1X07 or equivalent).

5. **Check for FLUID LEAKS**
6. **CHECK HOOD LATCH and SAFETY CATCH**
Make sure the hood release lever pulls evenly and that the hood cannot be lifted without releasing the safety catch.

7. Check for LOOSE ATTACHMENTS

Check for loose parts, wiring harness and cable clips and connections, incorrectly routed hoses and harnesses, and insufficient clearance of components to moving engine parts.

8. EMISSION CONTROL EQUIPMENT

The Environment Protection Agency (EPA) requires this inspection.

Using the underhood label as a guide, verify all emission control equipment is installed.

NOTE: The EPA requires that dealers visually inspect the emission control devices prior to delivery, or, as an alternative, inspect each vehicle for an illuminated malfunction indicator light (MIL), and if the light is illuminated, diagnose and correct the malfunction.



E. UNDER VEHICLE

During PDI, every vehicle should be put on a lift for under vehicle inspection. Refer to the appropriate service manual for vehicle lift points.

1. **Remove the BRAKE ROTOR PROTECTION (covers)** [if equipped].

2. **Remove SPRING SPACERS and FRONT FASCIA PROTECTOR PLATE (if equipped)**

3. Check for LOOSE ATTACHMENTS

Make sure all wiring harness clips, brake pipe clips, heat shield fasteners and any other attachments are properly secured.

4. FLUID LEAKAGE

a. Check for leaks from any engine components, transmission, fuel lines, coolant hoses, power steering lines, and A/C lines (if equipped). Check lines for twists, kinks, and proper routing.

5. **ADJUST TIRE PRESSURE AND INSPECT TIRES FOR DAMAGE**

Adjust tire pressure. For tire pressure specifications, refer to the Tire Pressure and Loading label on the driver's side B-pillar.

IMPORTANT: On some models, the factory over-inflates the tires by 50% to prevent flat spots during shipment and storage. It is critical to adjust tire pressures to the proper specifications.

Check all tires for damage such as cuts, foreign objects in the tire, or any other imperfections.

Remove the tire pressure and tire balance decals from each tire if either or both decals are present.

NOTE: Low tire pressure on vehicles equipped with Tire Pressure Monitoring System (TPMS) will cause the TPMS warning light to come on. Adjust tire pressure on TPMS equipped vehicles to the specification shown on the Tire Pressure and Loading Label located below the driver's door striker. If a valve stem cap is missing, refer to Mitsubishi ASA CAPS and replace it only with the part number quoted for the vehicle.



F. ROAD TEST

1. A/T / CVT / TC-SST SHIFT INTERLOCK

Make sure the shift lever can only be moved when the brake pedal is depressed and the ignition switch is in the unlocked position. For vehicles with OSS, the engine must be running.

2. A/T / CVT / TC-SST STARTER INTERLOCK

Make sure the engine can be started ONLY when the shift selector is in PARK or NEUTRAL. For vehicles equipped with O.S.S., the vehicle must only start if the brake pedal is depressed.

3. M/T CLUTCH - STARTER INTERLOCK

Make sure the engine will start only when the clutch pedal is depressed.













4. CONDUCT A FULL ROAD TEST

Road test the vehicle to identify dynamic symptoms that you may need to correct. Use the following instructions as a guide.

WARNING *Your route should be relatively free from other traffic so you can safely conduct the test and concentrate on the operation and performance of the vehicle you are testing.*

WARNING *Always follow all traffic laws and safe driving practices.*

The PDI road test should be conducted under a variety of different operating and road conditions. If the vehicle is equipped with air conditioning, place a thermometer in the center vent before beginning your road test. This will be used later to check the air conditioner operation.

• Oil pressure	
• Oil level	
• Security	SECURITY
• Generator	
• Low fuel level	
• A/T position indicator	
• Seat belt reminder	
• Check engine	SERVICE ENGINE SOON or 
• ABS (Anti-Lock Brake System)	ANTI-LOCK BRAKE or 
• SRS (Supplemental Restraint System)	SRS 
• High beam	
• Door ajar	
• A/T Temp (Automatic Transmission temperature)	
• Passenger Airbag Light	
• TPMS (Tire Pressure Monitoring System) Light	

Preliminary Road Test Notes

Vehicles should be at operating temperature prior to performing these tests. Before beginning the road test, establish a route that you will use on every test. Recommended road test duration is at least 15 minutes.

Record BEGINNING mileage

Record the beginning mileage of your road test on the PDI form.

5. WARNING, INDICATOR LIGHTS AND GAUGES

- Turn the ignition ON. The indicator and warning lights shown in the illustration should illuminate (as equipped).
- Fasten the driver's seat belt and start the engine. Verify that all indicator lights go out, except the passenger airbag light.
- Unfasten the driver's seat belt and verify the driver seat belt reminder light comes on.
- Open a door. Verify door ajar light comes on.
- The brake warning light should be lit when the parking brake is applied.
- Verify all gauges and lights are working as equipped.
- Check operation of the seat belt warning buzzer and the key reminder buzzer. For vehicles with the F.A.S.T. Key system or OSS, move the transmitter out of the vehicle and listen for a warning tone.

6. M/T: Check CLUTCH AND M/T OPERATION (including TC-SST shift functions)

Check for proper clutch operation and smooth shifter/transmission operation. Repeatedly shift up and down at least 10 times at idle and at speeds under 40 mph.

For vehicles equipped with a Twin Clutch Sportronic Shift Transmission (TC-SST), slide the shifter into the Manual Shift mode and manually shift through the gears. Also select Super Sport Mode (if

equipped) by using the console mounted switch. Ensure the shift paddles shift gears properly and manual shift mode cancels when a paddle is held for 2 seconds.

7. A/T: Check A/T / CVT / TC-SST OPERATION

- From 25 mph, accelerate to full throttle. The transmission should kick down to 1st gear and then shift to the higher gears. For CVT, the vehicle should accelerate smoothly.
- Idle 20 seconds in “N” then shift to “D” then “R” holding each position for more than 3 seconds.
- Check for smooth shifting during normal driving. Then upshift through all gears with 20% and 30% throttle and decrease to a stop. *On vehicles with Sportronic™ shift, slide the shift lever into the “Sport Mode” slot and upshift and downshift manually to verify proper operation.*
- Check paddle shifter operation (if equipped). Make sure the transaxle upshifts and downshifts properly.

8. 4WD & AWD: Check TRANSFER CASE OPERATION (If equipped)

Check for proper engagement and disengagement in all 4WD modes. For detailed explanation of the Transfer Case Operation, refer to the Owner’s Manual or in-vehicle decal.

9. Check ALL-WHEEL CONTROL (including S-AWC) FUNCTIONS (If equipped)

Ensure that the mode display changes when toggling the mode switch between TARMAC, GRAVEL and SNOW.

10. Check ENGINE PERFORMANCE

 **WARNING** Always follow all traffic laws and safe driving practices.

Check engine performance under the following conditions. The throttle should be responsive and without hesitation.

Part Throttle

With the vehicle at a constant speed (25–35 mph), engine performance should be smooth and without hesitation.

Under Load

Accelerate to 3/4 throttle. The vehicle should accelerate smoothly, without laboring or hesitation.

At Cruise

With the vehicle at a constant speed (45–55 mph), engine performance should be smooth, without hesitation or surging.

11. ELECTRONIC COMPASS (If equipped)

Refer to Group 52A in the service manual for electronic compass calibration instructions. Check the compass variance (the difference between the earth’s magnetic north and true geographic north poles). If compass variance is not adjusted properly, the compass can give false readings. The electronic compass requires calibration when the battery cable is removed or IOD connector is disconnected.

12. Check CRUISE CONTROL

Eclipse/Eclipse Spyder, Endeavor and Galant: The cruise control is operated by a stalk mounted switch on the right side of the steering wheel hub. The main control switch is on the end of this stalk.

Lancer, Outlander Sport and Outlander models: The cruise control functions are mounted on the steering wheel.

Control Functions


Main – Energizes and de-energizes the system and turns on the indicator light.

Set/Coast – Sets control speed. Also used to reduce the set speed.

Resume/Accel – Resumes previously set speed. Also used to increase the set speed.

System Operation Check

NOTE: The cruise control will not operate below 25 mph.

- a. Accelerate to 30 mph.
 - b. Turn on the MAIN switch. Make sure the CRUISE light illuminates.
 - c. Activate the SET function to set the vehicle speed. The vehicle speed should hold at 30 mph.
 - d. Increase the vehicle speed slightly by activating the RESUME function momentarily.
 - e. Check each canceling function by depressing the brake, clutch (M/T only), and by activating the CANCEL button.
 - f. Resume the set speed by activating the ACC/RESUME button.
 - g. Turn the cruise control off by pressing the MAIN switch.
13. **SQUEAKS, RATTLES, AND WIND NOISE**
Check for any abnormal noise and vibration during your road test, including driveline, pedal, or steering wheel vibration. On convertibles, have the top in the closed position during the road test. *Be sure to close all windows and sunroof and turn off the audio during this inspection.*
14. **STEERING OPERATION AND WHEEL ALIGNMENT**
Make sure the steering wheel is centered when the vehicle is traveling straight ahead. The vehicle should track straight on a level surface, without pulling or drifting. If a problem is identified, correct it. Refer to the service manual for adjustment procedures.
15. **BRAKE PERFORMANCE AND ABS OPERATION**
- a. Brake performance
The vehicle should brake smoothly and in a straight line. There should be no abnormal noise or vibration during braking. Brake pedal feel should be firm, not soft or mushy.
 - b. ABS operation (if equipped)
 - c.  **WARNING** *Always check that no vehicles are behind you when checking ABS.*
In a safe location with no other vehicles or objects around, check the operation of the ABS system. During hard braking, the vehicle should come to a controlled, straight stop. You will feel some pedal pulsation and may hear normal operating sounds from the ABS system.
16. **WINDSHIELD WIPER & WASHER OPERATION (front & rear)**
WINDSHIELD WASHER AIM (front & rear)
- a. Check washer aim, both front & rear (if equipped).
 - b. Vehicles equipped with intelligent windshield washer – Pull the windshield washer lever for approximately 0.5 seconds. Confirm the washer sprays between wiper blade sweeps, for a total of 4 sprays. Refer to *Group 51 Exterior* of the Service Manual for details of intelligent washer operation.
 - c. Make any needed adjustments, referring to the service manual. Submit a warranty claim for adjustments performed.
- WINDSHIELD WIPER OPERATION (also rear if equipped)
- a. Verify correct wiper operation during all speeds. If streaking occurs, clean the wiper blades with a cloth soaked in a mild detergent.
 - b. Make sure the wipers park properly.
17. **HEATER AND A/C OPERATION (if equipped)**
Check for proper operation of all modes, air intake selection, and temperature control. Check the fan speed and check for any unusual fan noises. Using a thermometer in the center air outlet, check for proper cooling when the air conditioner is operating. Refer to the service manual for temperature specifications or test conditions for the particular model. Make sure the air intake control is in the RECIRC position.

18. **HOT ENGINE IDLE SPEED WITH A/C ON AND OFF**

With the engine at operating temperature, check the idle quality with the air conditioning ON and OFF. When finished, leave the air intake door in the FRESH position.

19. **Check PARKING BRAKE**

Park the vehicle on a slight incline and leave the transmission in NEUTRAL. With your foot off the service brake, the parking brake should be able to hold the vehicle.

NOTE: Count the number of "click" notches it takes to engage the parking brake. If it is more than 8, adjust the parking brake according to service manual procedures.

20. **Check ATF**

With the parking brake applied and the engine running, check automatic transmission fluid level as per the applicable service manual. Add or extract fluid if necessary to ensure level is at the HOT marks on the dipstick.

21. **Record the ENDING mileage**

Record the ending mileage of your road test onto the PDI form.

22. ***** IMPORTANT *****

RECALLS – Check the Warranty Superscreen for any open recalls. Make sure any open recall is performed BEFORE the vehicle is offered for sale.

FINAL STEPS FOR TECHNICAL INSPECTION

- Sign and date the Technician's Signature area on the PDI form. Leave the form with the vehicle for the Detail Specialist for after-PDI detailing.
- Sign and install the PDI Quality Assurance Pledge decal.



Detail Inspection

A. **DETAILING BEFORE PDI**

BEFORE YOU START

NOTE: *Always keep your hands and uniform clean when performing a PDI.*

To protect the interior of the vehicle, be sure to remove sharp objects from your body and clothing before starting the detailing procedures.

Make sure the following information is recorded in the spaces provided on the PDI form:

- Vehicle Identification Number (VIN)
- Model
- Model Year
- Dealer name and code
- Dealer stock #

1. **RAP-FILM REMOVAL (if applicable)**

Before a technician can perform the Technical portion of a PDI, the protective film (RAP-film) must be removed from the exterior body surfaces.

NOTE: *For easiest removal, the temperature of the RAP-FILM should be between 32 °F (0 °C) and 122 °F (50 °C).*

a. **Remove the RAP-film from all body surfaces:**

- If the temperature of the vehicle body is higher than 122°F (50°C), the film softens, allowing more residue to remain on the body surface. For easier removal, decrease the temperature of the vehicle body surface to less than 104°F (40°C) with cool water and/or store the vehicle inside, out of the sun.

OR

- If the body surface temperature is lower than 32°F (0°C), increase the temperature using warm water or put the vehicle inside a heated facility until the body surface temperature rises.

Then, starting at the corners, pull up on the RAP-film, fold it back, and pull it off at an angle of 180 degrees to minimize glue residue.

For more information about RAP-film removal and residue removal, refer to TSB-97-00-006 & TSB-00-00-002.

b. **Wash the vehicle with water.**



2. **IMPORTANT: Remove RAP-FILM RESIDUE**

A line of adhesive residue can form at the edge of the RAP-FILM. As the film shrinks due to exposure to the elements, the adhesive is exposed and collects dirt and other debris. Use either of the following methods to remove the RAP-FILM residue from the body surface.

- If there is a considerable amount of residue, remove it by wiping down the affected body surface area with Biosol 100 or isopropyl alcohol, diluted 50% with mineral spirits (petroleum benzene).

OR

- If there is only a small amount of residue, use a very mild (white) polishing compound on the affected surface area.

For details on removing RAP-film and residue, refer to TSB-97-00-006 & TSB-00-00-002.

3. **Inspect for PAINT DAMAGE**

- a. Inspect the vehicle's surfaces for paint swelling (paint will have a milky appearance). This condition occurs when moisture is trapped between the RAP-film and the body panel surface.
- b. Most occurrences of paint swelling can be corrected by parking the vehicle in bright sun light for approximately one hour.

NOTE: If the above repairs are not successful for correcting paint swelling, refer to the paint repair procedures in the Body Repair Manual.

- c. At this time it is recommended that the Technical Inspection be completed. Continue the Detail portion after the Technical Inspection is finished.

Whenever possible, install all accessories and dealer installed options BEFORE performing Detailing and Final Delivery Preparation.



B. **DETAILING AFTER PDI**

1. **Remove RAP-FILM (if not already done).** Refer to previous **DETAILING BEFORE PDI** section.
2. **Wash ALL EXTERIOR BODY PANELS.**

- a. Always make sure the windows and sunroof (if equipped) are fully closed. For convertibles, make sure the top is closed and latched. Otherwise, water may enter, causing damage.
- b. Wash all body panels with water, not in direct sunlight.
- c. Start washing from the roof, working downward, using a sponge and water.
- d. After washing, wipe water from body surfaces using a chamois or soft cloth.

NOTE: When using a high-pressure washer avoid directing high-pressure spray at weatherstrips.

3. Check for WATER LEAKS immediately after washing.

During storage, when the vehicle has been exposed to rain with the RAP-film removed, or while washing the vehicle, note any water leaks that may require repair.

Remember that the source of the water leak is not always where the leak appears. To accurately locate and then repair the leak, a thorough understanding of the circumstances under which it was identified must be made known to the person doing the repairs.

NOTE: In some cases, it may take 4 minutes or longer to produce any evidence of leaks.

4. Wash & inspect ALL WHEELS; THOROUGHLY REMOVE ALL GLUE RESIDUE; Apply TIRE DRESSING.

- a. Install any missing valve stem caps with the correct cap. Your parts department can provide the correct part for the vehicle.
- b. Wash the wheels with mild detergent and rinse with water. See TSB-09-31-005 for information.
- c. After washing, wipe water from wheels using a chamois or soft cloth.
- d. Inspect wheels and tires for nicks, scratches, and other damage.
- e. Clean off any residue or foreign material.
- f. Apply tire dressing to each tire.
- g. Wipe dry with a clean cloth.

5. Check DOOR & TRUNK OPENING CLEANLINESS and UNDERHOOD CLEANLINESS.

Wipe off any dirt with a damp cloth.

UNDERHOOD:

- a. Remove any debris such as leaves, etc. from the engine compartment.
- b. Wipe up any fluid spills and note any evidence of leakage on the repair order.
- c. Wipe down the engine compartment components with a damp cloth.

6. Inspect PAINT and ALL BODY PANELS FOR DAMAGE, ALIGNMENT, and FIT & FINISH.

- a. Check for scratches and dents. Inspect the body panels from different angles.
- b. Check the alignment of all body panels for uniform gaps and flushness. All body panels should be flush with their adjoining panels and all gaps should be uniform.
- c. Inspect painted surfaces for uniform color. Inspect from different angles.
- d. Inspect painted areas for damage. Note any discrepancies on the repair order.
- e. Inspect painted areas for environmental fallout such as acid rain and rail dust. Remove any fallout by following MMNA-approved techniques.

NOTE: If any paint damage is noted, refer to TSB-92-51-001 and training video #44.

7. Inspect ALL GLASS FOR DAMAGE and CLEANLINESS, INSIDE & OUTSIDE.

Use a suitable glass cleaner and wipe dry with a soft lint-free cloth.

- a. Use an approved glass polish to remove minor scratches and imperfections.
- b. If there is a problem with any glass, follow your dealer's procedures to correct it.

8. Inspect ALL MOLDING, TRIM, AND CHROME PARTS & REMOVE PROTECTIVE TAPE.

- a. Inspect the moldings, trim, and chrome parts for looseness, proper alignment, and cleanliness.
- b. Clean off any residue.
- c. Note needed repairs as they are corrected. Remember, repairs are not part of your PDI time. Follow warranty policy and procedures.

9. Inspect ALL WEATHERSTRIPPING AND RUBBER MOLDINGS.

- a. Inspect all weatherstrips and rubber moldings for damage and make sure they are mounted correctly.
- b. Clean off any residue.

10. Clean the INTERIOR and check ALL INTERIOR PANELS & TRIM FOR PROPER FIT.

- a. Wipe plastic interior components with a soft damp cloth.
- b. Remove minor stains and soil using a mild detergent, then wipe dry with a clean, soft cloth.
- c. Check alignment of all interior panels and trim for uniform gaps and flushness. All interior panels and trim should be flush with their adjoining panels, and all gaps should be uniform.

NOTE: *DO NOT remove the protective seat covers at this time.*

11. Check for STAINS, DIRT, SCUFFS, OR TEARS.

If stains or soil are found on interior trim, do the following:

- a. Clean with a mild soap solution or reliable vinyl cleaner.
- b. Apply a small amount of solution with a clean cloth or sponge and work into a lather, then wipe with a damp cloth.
- c. When the lather has been removed, wipe again with a soft, clean cloth.

NOTE: *Damage and/or stains which cannot be removed using the above method should be noted on the repair order and corrected prior to customer delivery.*

12. Check that DOOR EDGE GUARDS ARE IN PLACE.

Check that door edge guards are in the proper position and securely fastened.

13. Install the CARGO NET (if applicable)

Install the cargo net according to the instructions in the package or vehicle owner's manual.

14. Place PAPER MATS IN ALL FLOOR AREAS.

Install paper floor mats on the driver's side and all passenger areas of the vehicle.

15. Check HEADLINER & SUN VISOR CLEANLINESS.

If stains or soil are found on the headliner or sun visors:

- a. Clean with a mild soap solution or reliable vinyl cleaner.
- b. Apply a small amount of solution with a clean cloth or sponge and work into a lather, then wipe with a damp cloth.
- c. When the lather has been removed, wipe again with a soft, clean cloth. After cleaning the headliner, use a small brush to raise the nap on the headliner material.

16. Disengage (pull up) the IOD (Ignition Off Draw) FUSE (Vehicles to be Stored).



Final Delivery Preparation

1. **Engage (*push down*) the IOD (Ignition Off Draw) connector (*Vehicles from Storage*).**
2. **Wash ALL EXTERIOR BODY PANELS.**
 - a. Always make sure the windows, sunroof (if equipped) and convertible top are fully closed and latched to prevent water entry.
 - b. Wash all body panels with water, not in direct sunlight.
 - c. Start washing from the roof, working downward, using a sponge and water.
 - d. After washing, wipe water from body surfaces using a chamois or 100% cotton terry towel.

NOTE: When using a high-pressure washer avoid directing high-pressure spray at weatherstrips.
3. **Wash ALL WHEELS & APPLY TIRE DRESSING.**
 - a. Install any missing valve stem caps with the correct cap. Your parts department can provide the correct part for the vehicle.
 - b. Wash the wheels with mild detergent and rinse with water. See *TSB-09-31-005* for information.
 - c. After washing, wipe water from wheels using a chamois or 100% cotton terry towel.
 - d. Apply tire dressing to each tire.
 - e. Wipe dry with a clean cloth.
4. **Check DOOR & TRUNK OPENING, and UNDERHOOD for CLEANLINESS.**

Wipe off any dirt with a damp cloth.

UNDERHOOD:

 - a. Remove any debris such as leaves, etc. from the engine compartment.
 - b. Wipe up any fluid spills. Note any evidence of leakage on the repair order.
 - c. Wipe engine compartment components with a clean damp cloth.
5. **Inspect ALL BODY PANELS FOR DAMAGE AND ALIGNMENT.**

Check for scratches and dents. Inspect the body panels from different angles.
6. **Inspect ALL PAINTED SURFACES FOR DAMAGE AND FINISH QUALITY.**
 - a. Inspect painted surfaces for uniform color. Inspect from different angles.
 - b. Inspect painted areas for damage.
 - c. Inspect painted areas for environmental fallout, such as acid rain and rail dust. Remove any fallout by following MMNA-approved techniques.

NOTE: If any paint damage is noted, refer to TSB-92-51-001 and training video #44.
7. **Clean ALL GLASS (INSIDE & OUT). Inspect ALL GLASS FOR DAMAGE**
 - a. Use a suitable glass cleaner and wipe dry with a soft lint-free cloth.
 - b. Clean any dirt off the wiper blades.
 - c. Use an approved glass polish to remove minor scratches and imperfections.
8. **Inspect ALL MOLDING, TRIM, AND CHROME PARTS.**
 - a. Inspect the moldings, trim, and chrome parts for looseness, proper alignment, and cleanliness.
 - b. Clean off any residue.

9. **Remove SEAT & TRIM PROTECTORS.**

- a. Carefully remove the protectors from all seats.
- b. Carefully remove all trim protectors.

10. **Check HEADLINER & SUN VISOR CLEANLINESS.**

If stains or soil are found on the headliner or sun visors:

- a. Clean with a mild soap solution or reliable vinyl cleaner.
- b. Apply a small amount of solution with a clean cloth or sponge, then wipe with a damp cloth.
- c. When the lather has been removed, wipe again with a soft, clean cloth.



11. **Check for STAINS, DIRT, SCUFFS, OR TEARS.**

If the interior trim is scuffed, stained or soiled, clean as described in *Detailing After PDI*, step 11.

NOTE: Damage and/or stains which cannot be removed using the described method should be noted on the repair order.

12. **Remove PAPER MATS, FOOT PEDAL PLASTIC PROTECTORS, VACUUM ALL FLOOR CARPETS, INSTALL AND ANCHOR ALL FLOOR MATS.**

- a. Remove all paper floor mats and plastic pedal protectors (if equipped).
- b. Vacuum all floor carpets.
- c. Install and anchor floor mats for all seating positions. Do not install more than one floor mat in the driver's position. Refer to TSB-11-00-001 for additional information.

13. **Confirm VEHICLE INSTALLED ACCESSORY WEIGHT**

Refer to TSB-09-00-001 for details. Complete and attach a "Load Carrying Capacity Reduced" label if applicable.

14. **Check tire pressures and adjust if necessary. Reinstall valve stem caps.**

NOTE: Tire pressures are shown on the Tire Pressure and Loading label on the driver's side B-pillar.

15. **Set all AM and FM radio presets to customer-preferred stations.**

COMPLETING THE PDI FORM

When finished, make sure both the PDI Technician and the Detail Specialist have signed the PDI form. Leave the yellow (2nd copy) in the vehicle's glove box. Keep the original copy with the vehicle's service file. A sample of the PDI form appears at the end of this bulletin.

Additional Diamond Care Delivery booklets and PDI forms can be ordered from Image Printing Solutions (<https://mmna.imgps.com>) by clicking the link on the main page of the MDL. If you need help with ordering, contact them at 1-800-924-1350, or at <https://mmna.imgps.com>, for assistance.

PARTS INFORMATION

The table below lists Genuine Mitsubishi fluids which may be required during PDI:

Description	Part Number
Long Life Coolant	MZ311986
DiaQueen Super LLC Premium coolant	MZ320125
Brake Fluid	MZ311987
Washer Fluid (concentrate)	ACH3ZC1X07
Automatic Transmission Fluid Dia Queen J1 (for CVT)	S0001610
Automatic Transmission Fluid Dia Queen J3 (Outlander w/6 speed auto. trans.)	4031610
Automatic Transmission Fluid ATF SP-III	ACH1ZC1X05
Power Steering Fluid	4039645

NOTE: *Fluid additions are included as part of the PDI reimbursement labor times.*

WARRANTY INFORMATION

The PDI procedures described in this bulletin, as well as any fluids required during the PDI process, are reimbursed under a single PDI labor time allowance dependent on the model. Current PDI labor time allowances are provided in the Warranty Central menu option on the MDL (Mitsubishi Dealer Link). Current applicable PDI labor time allowances are also automatically entered for you when the PDI claim is keyed into the MDL claim entry system.

NOTE: Any additional repairs and/or adjustments caused by an issue with materials and/or workmanship that are not part of these published PDI procedures should be claimed on a separate warranty claim using the applicable published LOTS labor time for the repair(s) or the “zero-zero” actual time procedure for non-published repairs and/or adjustments.

