

## 2013 RDX: TQI and New Model Service Information

(Supersedes 12-009, dated March 20, 2012 to revise this information marked by the black bars)

### REVISION SUMMARY

Under NEW MODEL SERVICE INFORMATION, the AWD Transfer Assembly Fluid information was changed.

### INTRODUCTION

This service bulletin explains many of the procedures needed to do a TQI on the 2013 RDX. It also describes some of the new model service information that is unique to the RDX. For more new model information, refer to training module SB 13-01, for the 2013 Acura RDX.

NOTE: For the TQI of the navigation system, refer to Service Bulletin 12-010, *2013 RDX: TQI of the Navigation System*.

The 2013 RDX is available in these trim levels:

- 2WD (Base)
- 2WD with Technology Package
- AWD (Base)
- AWD with Technology Package

### This service bulletin includes these TQI procedures:

- Install the Fuses
- Check the Battery
- Battery Management System
- Install the Shift Lock Release Cover
- Set the Radio Anti-Theft Code
- Set the Compass Zone (Models without Navigation)
- Check/Refresh the XM Satellite Radio Dealer Demo Service (All Except Alaskan & Hawaiian Models)
- Do the HandsFreeLink Operation Check
- Check the Moonroof One-Touch Feature
- Initialize the driver's Window Up/Down Feature
- Remove the Interior Protective Coverings
- Install the floor Mats
- Remove the Exterior Protective Coverings
- Set the Tire Pressures
- Install the Front License Plate Holder and the Rear License Plate Bolts
- Do the Idle Learn Procedure
- Do the CKP-Pattern Learn Procedure
- Complete the Personalized Settings Check Sheet (To Be Done by Sales Staff)

### This bulletin includes this new model service information:

- AWD Transfer Assembly Fluid
- Expanded View Driver's Mirror

### WARRANTY CLAIM INFORMATION

None. These procedures are considered part of the normal TQI.

### TQI PROCEDURES

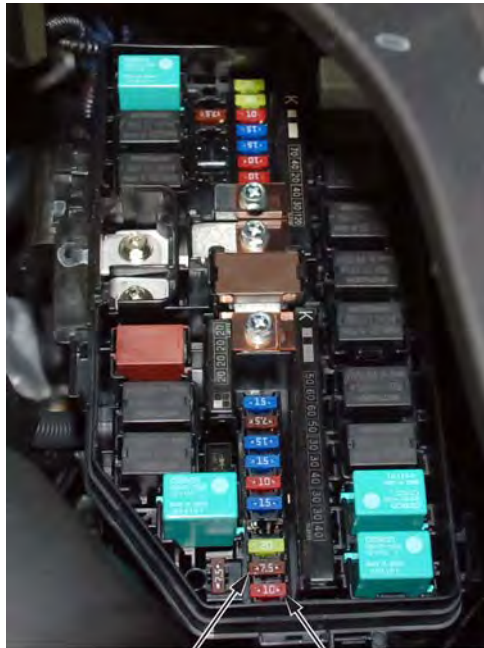
Before doing the TQI, review these items:

- Perfect Delivery documents, especially the information on battery maintenance and tire pressures
- TQI checklist in the maintenance journal

Make sure you complete the TQI checklist in the front section of the Maintenance Journal. The TQI procedure is not finished until this bulletin and the TQI checklist are both completed.

## Install the Fuses

To prevent battery drain during shipping, the No. 28 (7.5 A Interior Light) and the No. 29 (10 A Backup) fuses are removed and stored in the technology pocket where the USB cable is located. Make sure the engine start/stop button is pressed to select the OFF mode, then reinstall the fuses in the passenger's side under-hood fuse/relay box.



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## Check the Battery

To ensure long battery life and that the client receives a fully charged battery, the battery must be checked in these instances:

- When the vehicle first arrives at the dealership
- During the TQI (if done at a later time)
- During regular intervals
- Just before delivering the vehicle to the client

Test the battery with the ED-18 battery tester, using the instructions in Service Bulletin 88-016, *Battery Testing and Replacement*. If the ED-18 tester results display **GR8 DIAGNOSTIC NEEDED**, you must properly charge the battery using the GR8 Battery Diagnostic Station.

Write down the **GOOD BATTERY** 10-digit code in the maintenance journal: During the TQI, write down the code in the "Under Hood (Engine Cold)" section, and then when the vehicle is delivered to the client, write down the code in the "Final Inspection (At Delivery)" section.

## Battery Management System

The battery management system includes a sensor on the battery negative cable and a system message that may appear on the instrument panel if a battery communication error is detected.

This system will set DTCs in the PCM, and you may see the following MID message when the vehicle is in the ON mode:



## Install the Shift Lock Release Cover

The shift lock release cover is in a plastic bag with the owner's manual in the glove box. Install the cover in the shift lock release opening to the right of the shift lever.

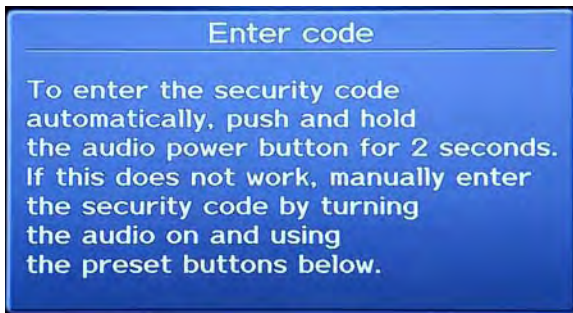
SHIFT LOCK COVER



### Set Radio Anti-theft Code

The anti-theft code is automatically checked between the PCM and the audio unit; there is no longer a need for anti-theft code cards. However two anti-theft code labels are included. After you exit the anti-theft mode, attach one of the anti-theft code labels to the TQI repair order. The second label should be given to the client for safe keeping, rather than left in the vehicle. In order to exit the anti-theft mode, do this:

1. Start the engine.
2. Wait for the following message to appear on the display.



3. Press audio unit power button to turn on the audio unit. When ENTER CODE appears on the audio unit display, press and hold the audio unit power button for about 2 seconds to allow the PCM to verify that the vehicle's VIN and the VIN saved in the audio unit match. You'll hear a long beep when the audio unit exits the anti-theft mode. Release the power button.

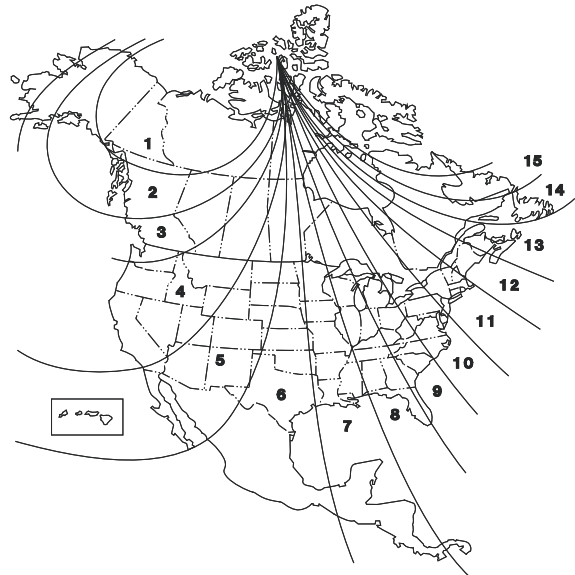
### Set the Compass Zone (Models without navigation)

In most areas, there is a variation between magnetic north and true north. At the TQI, the compass zone needs to be set to your geographic zone to compensate for this variation.

To set the compass geographic zone, do this:

1. Press the engine start/stop button to select the ON mode.
2. Press and hold the SETUP button on the audio panel for about 5 seconds. The display shows the compass setting menu items.
3. Find your zone number in the map below.

ZONE MAP



### Check/Refresh the XM Radio Dealer Demo Service (All Except Alaskan and Hawaiian Models)

The audio system comes from the factory activated with the XM Satellite Radio dealer demo service. Once you install the No. 29 fuse, the XM radio receives the full range of available XM channels. Make sure this service is activated by tuning to several XM channels. You can see the full list of XM channels at [www.xmradio.com](http://www.xmradio.com). If the XM radio receives only a small number of channels, such as **000**, **001**, and **174**, the dealer demo is not activated.

To check for the dealer demo service, do this:

1. Press the engine start/stop button to select the ON mode.
2. Turn on the radio, enter the 5-digit navigation anti-theft code (if not already done), and press the XM button.
3. Make sure the radio is in **CHANNEL MODE**, not **CATEGORY MODE**. Press and hold the **DISP MODE** button until the mode changes (without navigation), or go to the Audio menu and select **CH** (with navigation) to switch between modes.
4. Tune to channel **001** (the XM preview channel) to make sure you are receiving the XM signal. If you do not get a clear signal, park the vehicle outside where there is a clear view of the southern sky.
5. While watching the audio unit display, tune to several channels within the full XM lineup. To see the full list of channels, go to [www.xmradio.com](http://www.xmradio.com).
  - If you can tune to all the XM channels, the dealer demo service is activated. Tune to channel **001**, and leave the radio on for 7 minutes to refresh the dealer demo service. No further action is needed.
  - If you only can tune to a few channels like, **000**, **001**, and **174**, the dealer demo service is not yet activated, and an activation refresh needs to be done. Go to step 6.
6. Tune to **000**, then write down the 8-digit XM radio ID you see in the audio unit display. You need this ID, your dealer number, and the VIN to do an activation refresh of the dealer demo service. Then, go to step 7.
  - If you cannot tune to channel **000**, you are in **CATEGORY MODE**. See step 3 above to switch from **CATEGORY MODE** to **CHANNEL MODE**.
  - Check the ID carefully. The letters I, O, S, and F are not used.
7. Go to an iN workstation.

NOTE: If you don't have access to the iN, call XM Radio at **800-852-9696**, and follow the instructions on the automated menu. When the agent answers, ask for a rapid dealer activation refresh, then go to step 10.

8. From the iN main menu, click on **SERVICE**, click on **Service Bay**, and then click on **XM Radio**. This brings up the **DEALER ACTIVATION REFRESH** screen.

NOTE: If you cannot bring up this display, call the iN Support Center at **800-245-4343**.

9. Enter the 8-digit XM radio ID you wrote down in step 6, then click on **Submit**. You will see the **ACTIVATION REFRESH** screen once the ID number is recognized.

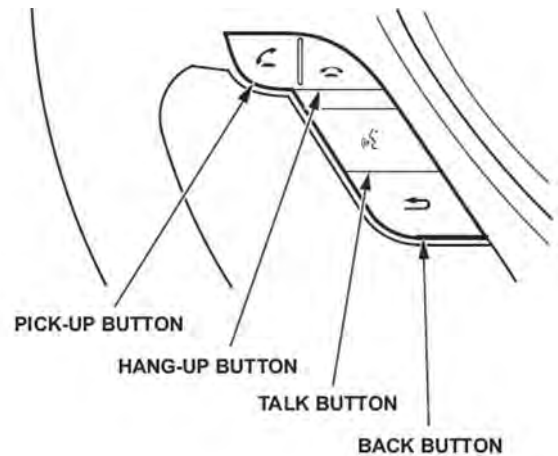
NOTE: If you enter the ID incorrectly, or if it is not recognized, you will see an error display. If this happens, follow the instructions on the display.
10. Tune to **001** to make sure you are receiving the XM signal. If you do not get a clear signal, park the vehicle outside where there is a clear view of the southern sky, then go to step 11.
11. Leave the radio on for at least 10 minutes, then go to step 12.
12. While watching the audio unit display, tune to several stations within the full XM lineup.
  - If you can tune to all the XM channels, the dealer demo service is activated, and no further action is needed.
  - If you can only tune to a few channels like **000**, **001**, and **174**, repeat steps 7 thru 12.
  - If, after 2 hours, you can only tune to channels, **000**, **001**, and **174**, call XM Satellite Radio at **800-852-9696**. When you hear the automated menu, enter priority code **9466** to route your call to an XM agent. When the agent answers, ask them to review the account status and make any necessary corrections. If the account status is correct for the vehicle, replace the XM receiver.

**NOTE:**

- The dealer demo service lasts for 7 months or until the vehicle's RDR (retail delivery registration) is submitted.
- After the vehicle is registered, the dealer demo service converts to a client account. The client gets a 90 day trial service of all available non-premium XM channels. If the client decides to end the service after that time, the XM radio reverts to preview mode. Normal AM and FM radio reception is not affected by ending the service.
- The XM radio receives digital programming broadcasts from two fixed-orbit satellites near the equator along with a network of ground antennas (repeaters). You will get the strongest signal if you move the vehicle where there is a clear view of the southern sky.
- The XM radio may lose reception when you are driving through a tunnel, under an overpass, inside a parking garage, or near the northern face of a canyon or a mountain.
- To cut down on reception loss, XM radio uses a buffer. If the reception loss lasts longer than the buffering period, the signal goes silent.
- Because the XM radio signal is digital, any reception loss makes the signal go silent; the signal usually does not fade like it does with an AM/FM radio.
- If you ever need to replace the XM radio receiver, call XM Radio at **800-852-9696**. Be prepared to give your dealer number, the VIN, and the XM radio ID from the printed label on the side of the old and the new receiver units.
- Your client's XM radio presets will be lost if you disconnect the battery or if it goes dead. Always write down the XM radio presets before you disconnect the battery.

**Check the HandsFreeLink System**

To confirm that the HFL (HandsFreeLink) system is working and ready to use, start the engine and hold the **HANG UP** button for 2 seconds, you should hear this HFL message: "The HFT is OK." If you do not hear the HFL message, refer to the online service manual for troubleshooting information.



### Check the Moonroof One-Touch Feature

Make sure the moonroof one-touch feature works properly:

- When you firmly pull the moonroof switch backward and release it, the moonroof should open fully.
- When you firmly push the switch forward and release it, the moonroof should close fully.
- When you push up on the switch and release it, the moonroof should tilt.

If the moonroof does not work properly, do this procedure to calibrate the moonroof:

NOTE:

- Calibration is not needed after you disconnect the battery.
  - Calibrate the moonroof one-touch feature after replacing any moonroof components, or after installing the accessory moonroof visor.
1. Make sure the battery is fully charged, then press the start/stop button to select the ON mode.
  2. Fully open the moonroof.



MOONROOF SWITCH

3. Pull back and hold the moonroof switch. When the moonroof moves backward, then slightly forward, release the switch.
4. Within 5 seconds, pull and hold the switch again. When the moonroof closes fully, tilts up, and then closes, release the switch.
5. Check the one-touch feature and, if needed, repeat the procedure.

For more information, refer to the online service manual.

### Initialize the Driver's Window Up/Down Feature

To initialize the auto-up/down feature, do this:

1. Press the engine start/stop button to select the ON mode.
2. Make sure the driver's window is fully closed, then push and hold the window switch until the window opens all the way.
3. Pull back the window switch, and hold it until the window is fully closed. Continue to hold the switch for another 2 seconds.
4. Check the auto-up/down feature: When you firmly push the window switch and then release it, the window should open fully; when you firmly pull back the switch and then release it, the window should close fully. If the window doesn't work this way, repeat the initialization.

NOTE: Initialize the driver's window auto-up/down feature after replacing any driver's window parts or installing accessory door visors. Initialization is not needed after you disconnect/reconnect the battery.

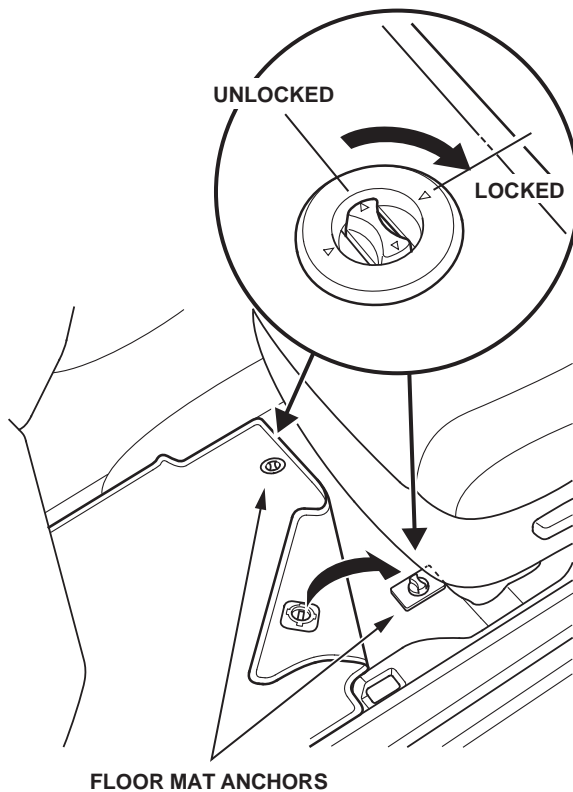
### Remove the Interior Protective Coverings

There are several protective coverings on the interior trim pieces and some areas of the carpet. Carefully remove all of them. Remove the coverings with clean hands so you don't soil the fabric. If any of the interior is dirty, clean it with mild soap or an Acura cleaning product such as Leather & Vinyl Cleaner (P/N 08700-9214A) or Carpet Spot Remover (P/N 08700-9215A).



### Install the Floor Mats

The floor mats are in the cargo area. Install them in the appropriate positions. Place the driver's and front passenger's floor mat eyelets over the anchors on the floor, then turn the knobs clockwise to lock the anchors. Place the rear floor mat in position; it does not have an anchor.



### Remove the Exterior Protective Coverings

Carefully remove the exterior protective coverings. Refer to Service Bulletin 96-009, *Removal of Protective Coatings During TQI*.

### Set the Tire Pressures

To prevent flat spots during shipping and storage, the tires are inflated to over 40 psi. Adjust the tire pressures to the cold inflation pressures listed on the driver's doorjamb label. If you are in a cold climate region, make sure the tires are at the outside ambient temperature before adjusting the pressures; otherwise, the TPMS low tire pressure indicator may show low tire pressure in cold weather. Be sure to also check the pressure in the spare tire.

**NOTE:** The spare tire does not have a TPMS sensor. The low tire pressure indicator does not come on if the pressure in the spare tire is low. After you replace a flat tire with the spare tire, the low tire pressure indicator stays on. This is normal; the system does not monitor the spare tire.

### Install the Front License Plate Holder and the Rear License Plate Bolts

The front license plate holder and mounting hardware are in the TQI plastic bag in the rear cargo area. If state regulations require the use of a front license plate, install the front license plate holder using the two larger clip nuts, the two black bolts, and one of the self-tapping screws as shown.



The remaining hardware in the license plate mounting kit is for the rear license plate. The threaded bolts and the small clip nuts go into the top inner mounting holes (marked KA), and the self-tapping screws go into the lower mounting holes.



### **Do the Idle Learn Procedure**

To avoid an erratic idle, do the idle learn procedure after you install the No. 29 fuse.

NOTE: Idle speed adjustment is done by the PCM; there is no adjustment screw.

1. Make sure all electrical items (A/C, radio, rear window defogger, lights, etc.) are off.
2. Start the engine, and let it reach operating temperature (the cooling fans cycle twice).
3. Let the engine idle for 10 minutes with the throttle closed.

The idle learn procedure must also be done after updating or replacing the PCM. It does not need to be done after you clear DTCs.

### **Do the CKP-Pattern Learn Procedure**

To ensure proper engine operation, do the CKP pattern learn procedure after doing the idle learn procedure. Do this procedure on a level road during your TQI test-drive.

The procedure consists of a low-rpm and a high-rpm pattern learn. Make sure you do the low-rpm pattern learn first.

1. Low-rpm Pattern Learn: Move the shift lever to S, use the paddle shifter to shift to 3, and decelerate with the throttle fully closed from 2,500 rpm to 1,000 rpm.
2. High-rpm Pattern Learn: With the shift lever in S, use the paddle shifter to shift to 1, and decelerate with the throttle fully closed from 5,000 rpm to 3,000 rpm.

### **Complete the Personalized Setting Check Sheet (To Be Done by Sales Staff)**

Sales staff will ask the client to complete a check sheet specifying their preferences for the personalized settings in the MID. While the client is in the finance and insurance department, the sales staff will program the features that will likely be set only once; when the sales person delivers the vehicle to the client, they will then review and program the features that the client is likely to change often.

## **NEW MODEL SERVICE INFORMATION**

### **AWD Transfer Assembly Fluid**

A new transfer assembly fluid, SAE 75W-85 viscosity hypoid gear oil is used in all 2013 RDX AWD models. This oil was formulated to improve fuel economy and usage in a wider ambient temperature range for year round.

For service, the recommended transfer assembly fluid is Acura Hypoid Gear Oil HGO-1, GL5 SAE 75W-85.

### **Expanded View Driver's Mirror**

The driver's mirror has outer and inner segments. The outer segment is slightly curved to provide a wider angle of view of what's on the left side of the vehicle. If a client complains of distortion, the first step is to tape off the outer segment of the mirror, then inspect the remainder of the mirror for distortion.