

2017 RDX: TQI Information

AFFECTED VEHICLES

Year	Model/Trim Level	
	2WD	AWD
2017	RDX	RDX
	RDX with AcuraWatch Plus Package	RDX with AcuraWatch Plus Package
	RDX with Technology Package	RDX with Technology Package
	RDX with Technology and AcuraWatch Plus Packages	RDX with Technology and AcuraWatch Plus Packages
	RDX with Advance Package	RDX with Advance Package

INTRODUCTION

This bulletin covers the total quality inspection (TQI) of the 2017 RDX. It includes these procedures:

1. Remove the Exterior Protective Coatings	9. Do the CKP-Pattern Learn Procedure
2. Install the Fuses	10. Install the Shift Lock Release Cover
3. Remove the Interior Protective Coverings	11. Set the Audio Unit Anti-Theft Code
4. Install the Floor Mats	12. Set the Compass Zone (Models Without Navigation)
5. Check the Battery	13. Check/Refresh the SiriusXM [®] Radio Dealer Demo Service (Except in Alaska and Hawaii)
6. Install the Front License Plate Holder and Rear License Plate Bolts	14. Check <i>Bluetooth</i> [®] HandsFreeLink [®] (HFL)
7. Set the Tire Pressures	15. Initialize the Driver's Window Auto Up/Down Feature
8. Do the PCM Idle Learn Procedure	16. Check the Moonroof One-Touch Feature

To do a TQI on a model with a navigation system, be sure to complete S/B 16-014, *2017 RDX: TQI of the Navigation System*.

CLAIM INFORMATION

Reimbursement Time: 1.4 hours

NOTE: This time includes the TQI of the navigation system (if equipped).

CLIENT INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Acura automobile dealer.

TQI PROCEDURES

Before Starting

Review these items:

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

Make sure you record the TQI on the appropriate pages of the maintenance journal. The TQI is not done until this bulletin and the TQI checklist are both complete. Note on the repair order any repairs or problems that cannot be fixed within a few minutes.

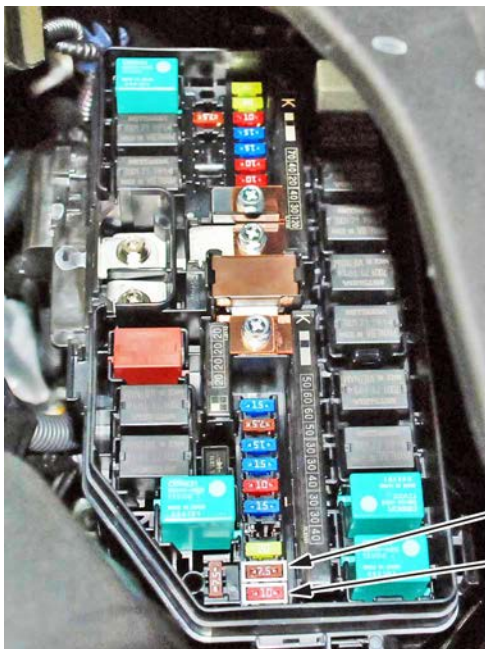
Remove all TQI items from the cargo area and glove box.

1. Remove the Exterior Protective Coatings

Carefully remove all of the exterior protective coatings. See S/B 96-009, *Removal of Protective Coatings During TQI*.

2. Install the Fuses

To prevent battery drain during vehicle shipping, the No. 28 INTERIOR LIGHT (7.5 A) fuse and the No. 29 BACKUP (10 A) fuse are removed from the passenger's side under-hood fuse/relay box and stored in the technology pocket where the USB cable is stored. Make sure the power mode is set to OFF before reinstalling these fuses.



No. 28 INTERIOR LIGHT (7.5 A)

No. 29 BACKUP (10 A)

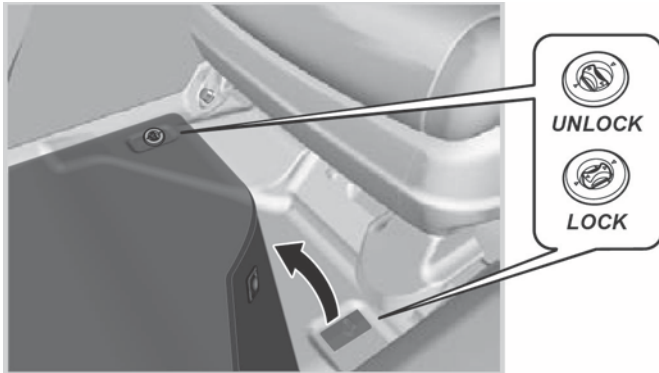
Vehicle Interior

3. Remove the Interior Protective Coverings

Carefully remove all interior protective coverings. Remove them with clean hands to avoid soiling any surfaces.

4. Install the Floor Mats

Install the floor mats in their proper positions. Place the driver's and front passenger's floor mat eyelets over the anchors in the floor, then turn the knobs clockwise to the lock position. Place the rear floor mat into position; it does not have an anchor.



Under-Hood (Engine Cold)

5. Check the Battery

To ensure long battery life and that the client gets a fully charged battery, it must be checked at these times:

- When the vehicle first arrives at the dealership
- During the TQI, if done at a later date
- At regular intervals
- Just before vehicle delivery

Test the battery with the ED-18 battery tester using S/B 88-016, *Battery Testing and Replacement*. If the test results show **GR8 DIAGNOSTIC NEEDED**, you must charge the battery with 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. Then, at vehicle delivery, write it down in the "Final Inspection (At Delivery)" section.

NOTE: Make sure the ED-18 has the latest software installed before using it.

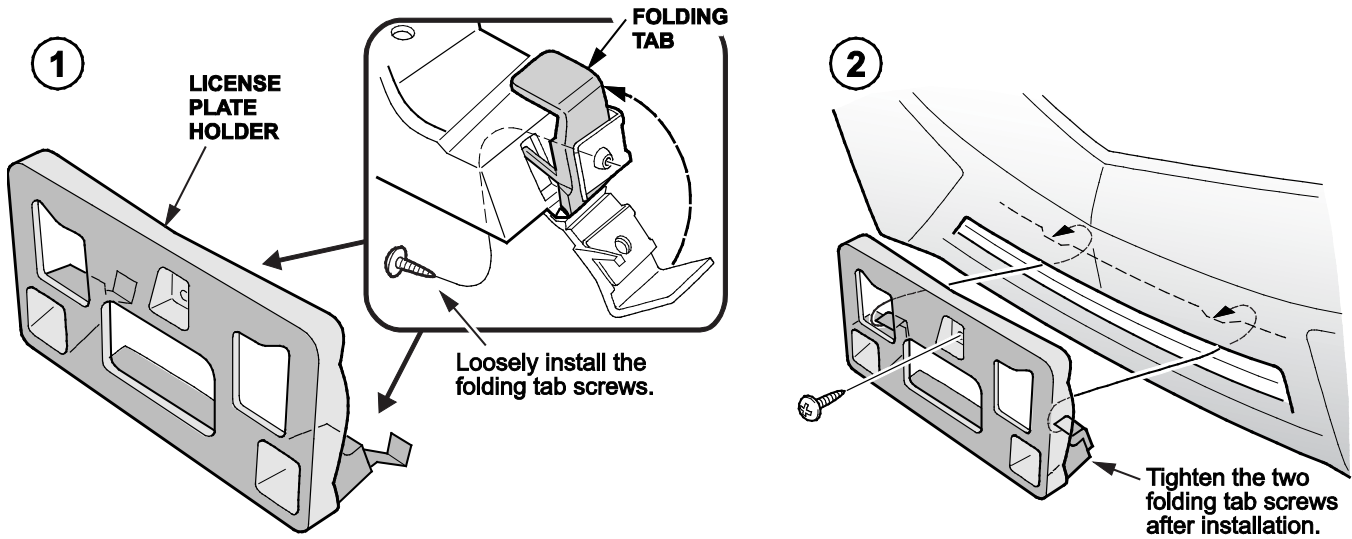
This vehicle has a battery management system, which includes a sensor on the battery negative cable and a system message that may appear on the instrument panel if a battery communication error is detected. It will set DTCs in the PCM and you may see this message in the MID with the power mode set to ON.



Vehicle Exterior (Vehicle Lowered to Half-Height)

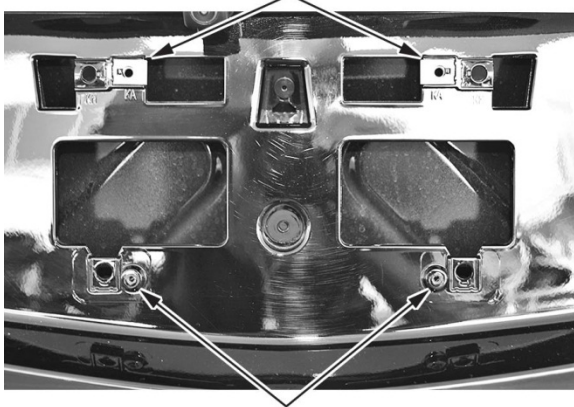
6. Install the Front License Plate Holder

If state regulations require the use of a front license plate, install the holder as shown:



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

UPPER REAR LICENSE PLATE MOUNTING HOLES (FOR KA MARKET)
Install clipnuts.



LOWER REAR LICENSE PLATE MOUNTING HOLES (FOR KA MARKET)

Vehicle Exterior (Vehicle Lowered to Ground)

7. Set the Tire Pressures

To prevent flat spots during vehicle shipping and storage, the tires are inflated to over **40 psi**. If the vehicle is going into dealer storage, leave the tire pressures at **40 psi** until it is sold (see the "Perfect Delivery Action Plan"). If the vehicle is moved to the sales lot or is sold, set the tire pressures as follows:

NOTE:

- You must do these steps exactly as written to enable full function of the TPMS.
- If you are in a cold climate region, make sure the tires are at the same temperature as the outside air before adjusting the pressures; otherwise, the Low Tire Pressure/TPMS indicator may come on in cold weather.
 1. Set the power mode to ON.
 2. Use a tire pressure gauge with a bleeder valve to quickly lower the pressure in each tire to around **28 psi**.
 3. Set the pressure in each tire to the recommended value listed on the driver's doorjamb label and check it with a hand-held gauge.
 4. Test-drive the vehicle for at least **2 minutes** above **15 mph**. If the MID does not show the tire pressures, make sure you completed the test-drive as specified.

Be sure to check the pressure in the spare tire (if equipped).

NOTE: Some trim levels do not have a spare tire; instead, they come with a tire repair kit stored under the trunk lining. For those trim levels, an optional spare tire wheel kit can be ordered separately.

Under-Hood (Engine Idling)

8. Do the PCM Idle Learn Procedure

To ensure a steady engine idle, do the PCM idle learn procedure as follows after installing the No. 29 BACKUP (10 A) fuse:

1. Make sure all electrical items (A/C, audio unit, rear window defogger, lights, etc.) are turned 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 fully closed.

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

9. Do the CKP-Pattern Learn Procedure

To ensure proper engine operation, do the CKP-pattern learn procedure after doing the PCM idle learn procedure.

NOTE:

- Make sure all electrical loads (A/C, heated seats, audio unit, etc.) are turned off before doing this procedure.
- **Failure to do this procedure correctly may result in poor driveability along with misfire DTCs.**
 1. While driving on a level road, decelerate (with the throttle fully closed) from **2,500 rpm** to **1,000 rpm** with the transmission in 2nd gear.
 2. Repeat step 1 three times.

Vehicle Interior

10. Install the Shift Lock Release Cover

Install the shift lock release cover as shown:

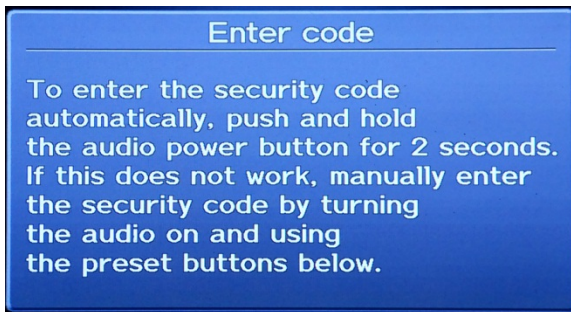


11. Set the Audio Unit Anti-Theft Code

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 exiting the anti-theft mode, attach one of the labels to the repair order. The other 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 this message to appear on the display.



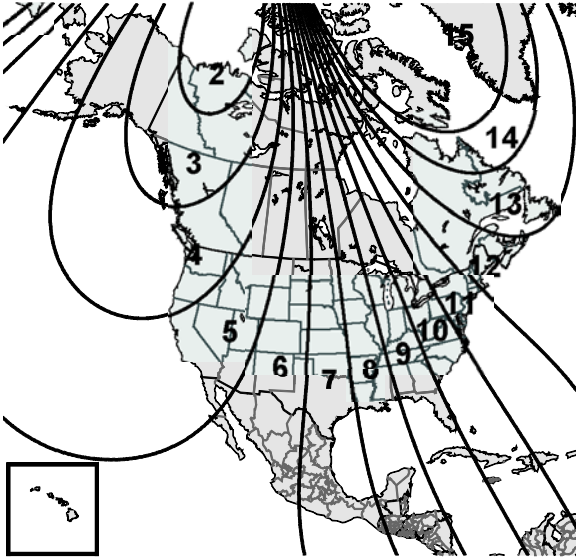
3. Press the VOL/PWR button to turn on the audio unit. When the **Enter code** screen appears, press and hold the button for about **2 seconds**. This lets the PCM check that the vehicle's VIN matches the one saved in the unit. You will hear a long beep when the audio unit exits the anti-theft mode. Release the button.

12. 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 zone, do this:

1. Set the power mode to ON.
2. Press and hold the SETUP button on the audio panel for about **5 seconds**. The display shows you the compass setting menu items.
3. Turn the selector knob to select **Zone**, then press to enter. The display shows you the current zone number.
4. Find your zone number on this map.



5. Turn the selector knob to select your zone number, then press to enter.

13. Check/Refresh the SiriusXM® Radio Dealer Demo Service (Except in Alaska and Hawaii)

The audio system comes from the factory activated with the SiriusXM® Radio dealer demo service. Once you install the No. 29 BACKUP (10 A) fuse, the system receives the full range of available channels. To ensure this service is activated, follow these steps:

1. Set the power mode to ON.
2. Turn on the audio unit, enter the five-digit navigation anti-theft code (if not already done), and select SiriusXM® Radio.
 - *Models Without Navigation:* Press the XM button.
 - *Models with Navigation:*
 - Interface Dial Method: Press the MENU button. Turn the interface dial to select **Change Source**, then press to enter. Turn the interface dial to select **SXM**, then press to enter.
 - On Demand Multi-Use Display™ Method: Select **Audio Source**. Select the SiriusXM icon.
3. Make sure the system is in channel mode, not category mode.
 - *Models Without Navigation:* Press the SETUP button, turn the selector knob to select **SiriusXM® Mode**, then press to enter. Turn the selector knob to select **Channel Mode**, then press to enter.
 - *Models with Navigation:*
 - Interface Dial Method: Press the MENU button. Turn the interface dial to select **Tune Mode**, then press the ENTER button. Turn the interface dial to select **Channel Mode**, then press the ENTER button.
 - On Demand Multi-Use Display™ Method: Select **More**. Select **Tune Mode**, then select **Channel**.
4. Tune to channel **001** (the SiriusXM® preview channel) to make sure you are receiving the 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 display, tune to several channels within the full channel lineup. To see the full list of channels, go to www.siriusxm.com.
 - If you can tune to all of the channels, the dealer demo service is activated. Tune to channel **001** and leave the audio unit on for **7 minutes** to refresh the dealer demo service. No further action is needed.
 - If you can tune to just a few channels like **000**, **001**, and **174**, the dealer demo service is not yet activated and you need to do an activation refresh. Go to step 6.
6. Tune to **000**, then write down the eight-character 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. Go to step 7.

NOTE:

- If you cannot tune to channel **000**, you are in category mode. See step 3 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 do not have access to the iN, call SiriusXM® Radio at **800-852-9696** and follow the automated menu instructions. 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**, then **HCUC XM Radio Demo Activation**. This brings up the **HCUC XM Radio Activation** screen.

NOTE: If you cannot bring up this screen, call the iN Support Center at **800-245-4343**.
 9. Enter the eight-character radio ID that you wrote down in step 6, then click on **Submit**. You will see the **ACTIVATION REFRESH** screen once the ID is recognized.

NOTE: If you enter the ID incorrectly, or if it is not recognized, you will see an error screen. If this happens, follow the screen instructions.
 10. Tune to **001** to make sure you are receiving the 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 audio unit on for at least **10 minutes**, then go to step 12.
 12. While watching the audio unit display, tune to several channels within the full channel lineup.
 - If you can tune to all of the channels, the dealer demo service is activated. No further action is needed.
 - If you can tune to only a few channels like **000**, **001**, and **174**, repeat steps 7 through 12.

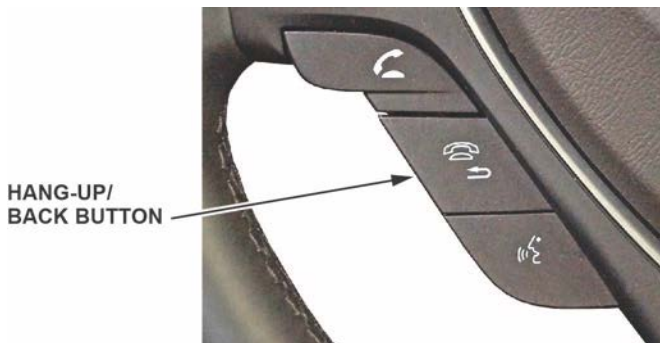
- If, after **2 hours**, you can only tune to channels **000, 001, and 174**, call SiriusXM® Radio at **800-852-9696**. When you hear the automated menu, enter priority code **9466** to route your call to an agent. When the agent answers, ask him or her to review the account status and make any needed 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 retail delivery registration (RDR) is submitted, whichever comes first.
- 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 channels. If the client decides to end the service after that time, the SiriusXM® radio goes back to preview mode. Normal AM/FM radio reception is not affected by ending the service.
- The SiriusXM® 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 where there is a clear view of the southern sky.
- The SiriusXM® radio may lose reception when driving through a tunnel, under an overpass, inside a parking garage, or near the northern face of a canyon or mountain.
- To cut down on reception loss, SiriusXM® radio uses a buffer. If the reception loss lasts longer than the buffering period, the signal goes silent.
- Because the signal is digital, any reception loss makes it go silent. The signal does not fade like it does with an AM/FM radio.
- If you ever need to replace the XM receiver, call SiriusXM® Radio at **800-852-9696**. Be prepared to give your dealer number, the VIN, and the radio ID from the printed label on the side of the old and new receiver units.
- Your client's channel presets will be lost if you disconnect the battery or if it goes dead. Always write down those presets before disconnecting the battery.

14. Check Bluetooth® HandsFreeLink® (HFL)

To ensure HFL works and is ready to use, start the engine, then press and hold the Hang-up/Back button on the steering wheel for **2 seconds**. You should hear "TCU is OK" repeated twice. If you do not hear this message, see the service information for troubleshooting information.



15. Initialize the Driver's Window Auto Up/Down Feature

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

1. Set the power mode to ON.
2. Make sure the driver's window is fully closed, then press 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. Keep holding the switch for another **2 seconds**.
4. Check the auto up/down feature: When you firmly press the window switch and release it, the window should fully open; when you firmly pull back the switch and release it, the window should fully close. If the window does not 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 disconnecting/reconnecting the battery.

16. 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 fully open.
- When you firmly push the switch forward and release it, the moonroof should fully close.
- 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 it:

NOTE: This procedure must be done after replacing any moonroof component or after installing the accessory moonroof visor. It does not need to be done after disconnecting the battery.

1. Make sure the battery is fully charged, then set the power mode to ON.
2. Fully open the moonroof.



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 fully closes, tilts up, and then closes, release the switch.
5. Check the one-touch feature and, if needed, repeat the procedure.

For more information, see the service information.