

PARL

MOTORSPORTS

INSTALLATION GUIDE



ACURA RDX 2.0T (2019+)

INTERCOOLER UPGRADE

PRL INSTALLATION OVERVIEW

2

PRODUCT: PRL-ARDX3-IC PRL MOTORSPORTS INTERCOOLER UPGRADE

FITMENT: 2019+ Acura RDX 2.0T

INSTALLATION TIME: Approximately 2 hours

NOTE: THIS ITEM DOES NOT REQUIRE AN ECU RE-CALIBRATION.

Please check that all components that are listed in the parts list have been supplied to you, and are correct. If you require any assistance or are missing components please email: support@prlmotorsports.com. Please verify with a customer service representative before installation or returning the product.

PRODUCT DISCLAIMER:

United States 48 State Compliant:

California/New York Residents please see Prop 65.

This is a Race Only product that is to be used solely for competition, it cannot be used on vehicles that are operated on public streets, roads or highways. Its use is limited to closed-course and open-course racing that is formally sanctioned by a recognized racing organization. Any other use including recreational use could be in violation of local, state and federal laws.

PRL Motorsports is not responsible for any vehicle damage or personal injury that may occur due to an installation error, product misuse, or removal of PRL Motorsports products. PRL Motorsports highly suggests that a trained professional conduct the installation on all products. PRL Motorsports is not responsible for damaged products due to incorrect installation.

REQUIRED TOOLS:

Ratchet

Extension (6 - 12" Length)

10mm Socket

12mm Socket

1/4" Hex Socket (Dependant on End Tank Hardware Connection)

Torque Wrench

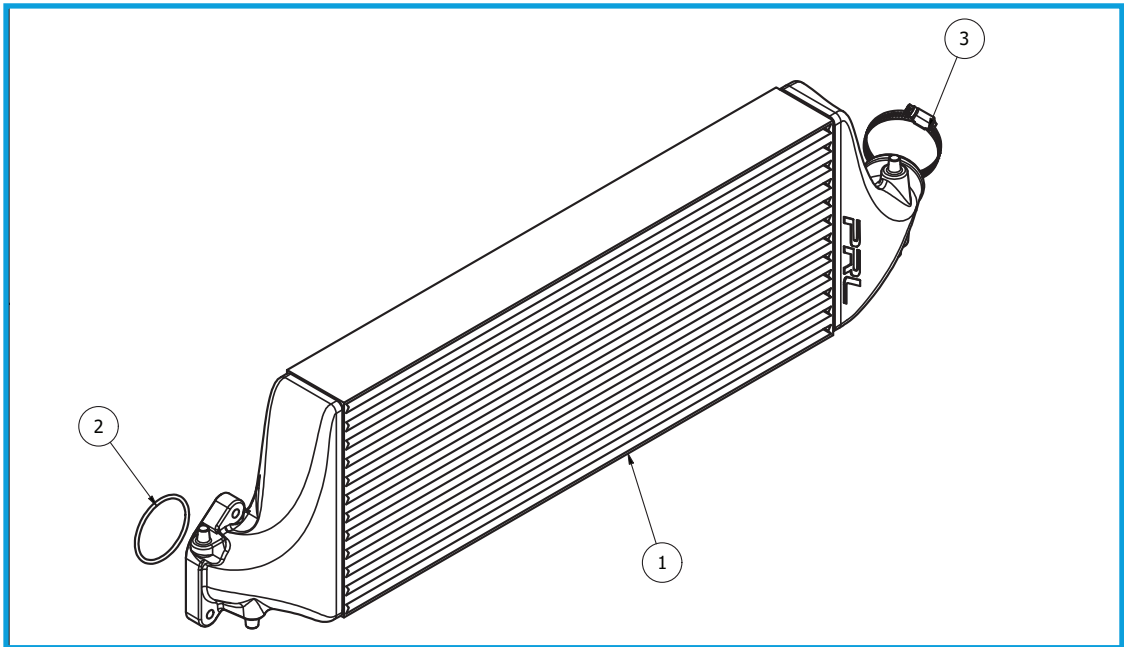
Pliers

Phillips Head Screw Driver

Flat Head Screw Driver

Clip Removal Tool





COMPONENT LIST

#	PART #	QTY	DESCRIPTION
1	RAW-ARDX3-IC	1	2019+ Acura RDX Intercooler
2	MCM-9452K69	1	Hot Side End Tank O-Ring
3	IFE-50-70-12	1	IFE 50-70-12 Stainless Hose Clamp
4	PRL-HCR-IC-STEN	1	Standard PRL Logo Stencil (Cardboard)
	PRL-ARDX3-20T-IC-OUT		Acura RDX 2.0T Intercooler Install Kit (Not Included) INSTALL KIT REQUIRED FOR 2021+ MODELS

1

Turn off the ignition. Loosen battery terminal and disconnect the negative battery terminal cable. Allow the vehicle to sit for a minimum of 5 minutes to drain any remaining charge from the charging system.



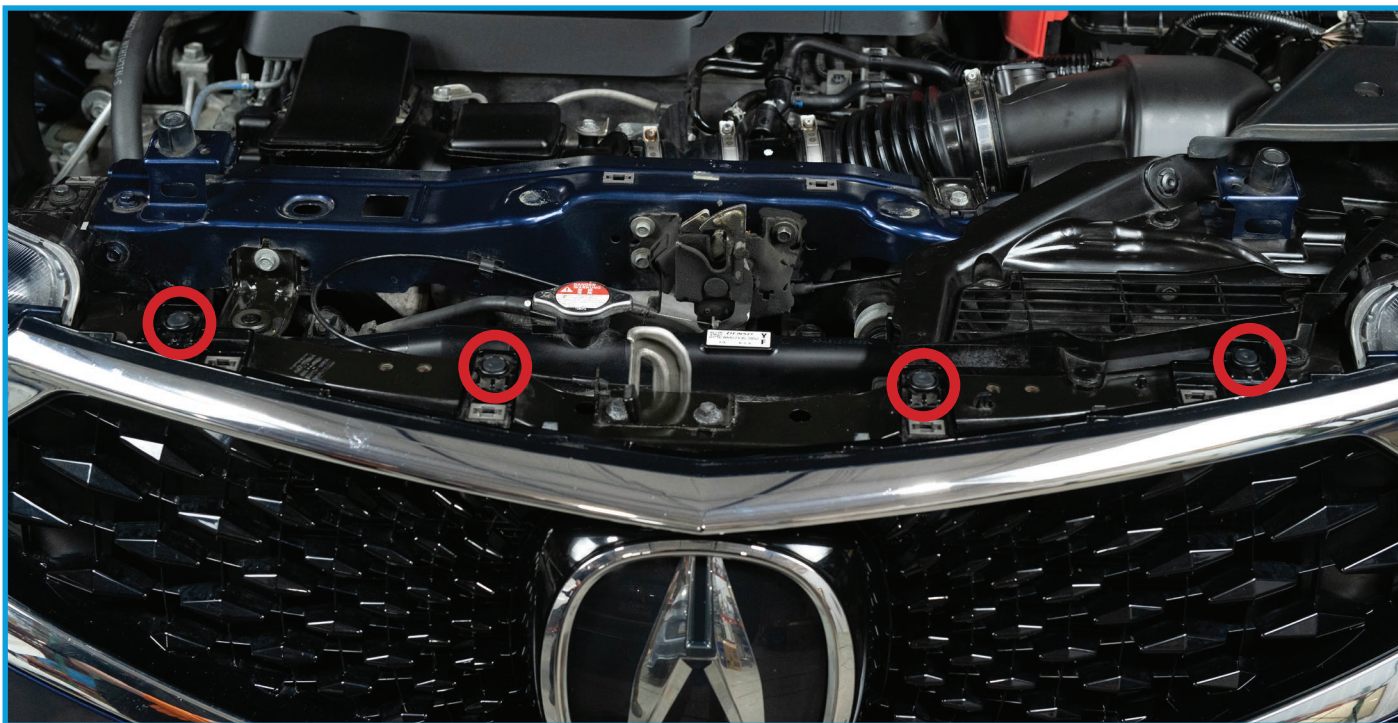
2

Once under the hood, pull up on the radiator cover to release the 8 push pins underneath. The plastic studs can be fairly brittle, so take care to pull straight up without twisting or bending the clips.



3

With the cover out of the way, you can now remove the 4 plastic clips holding in the top of the grill/bumper assembly. We recommend using a clip removal tool to prevent damage to any of these clips.



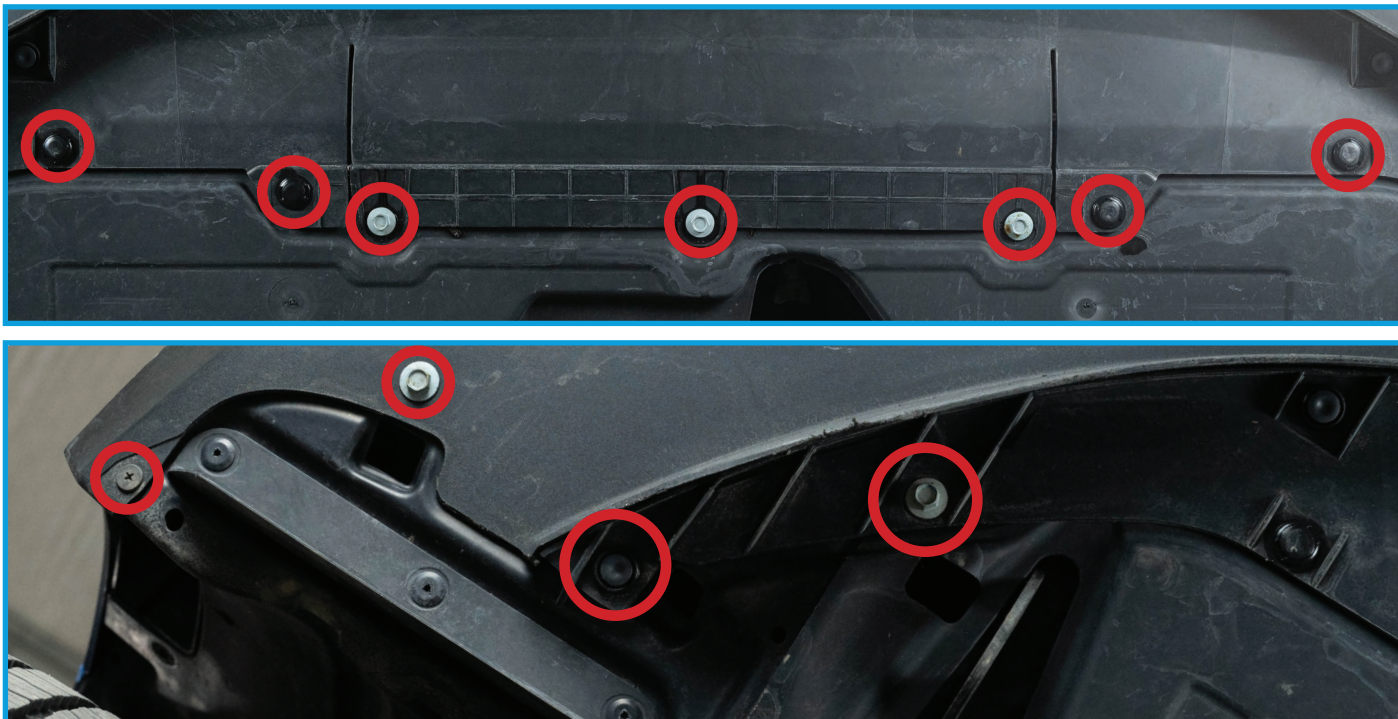
4

In the wheel well, remove the 3 plastic clips that attach the bumper to the fender liner as well as the phillips screw attaching the bumper to the fender.



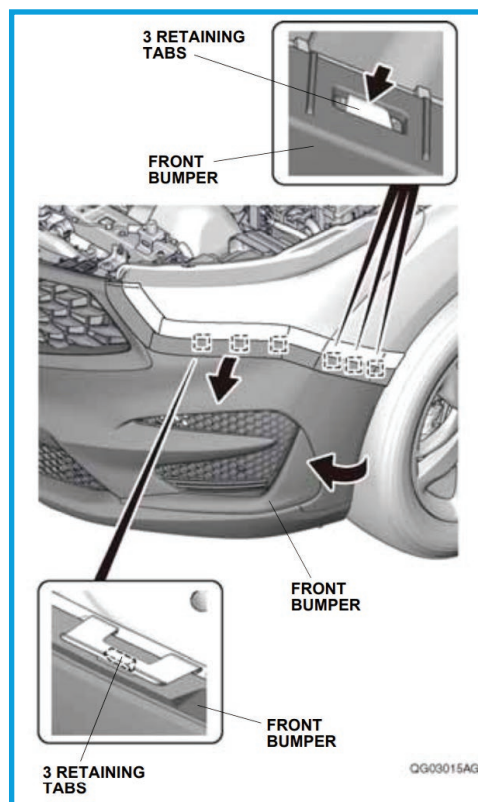
5

Underneath the car, you will need to remove all of the (6) plastic clips and (9) screws attaching the bumper to the underbody. Keep in mind that some of the screws are different (7x 10mm hex head, 2x phillips head)

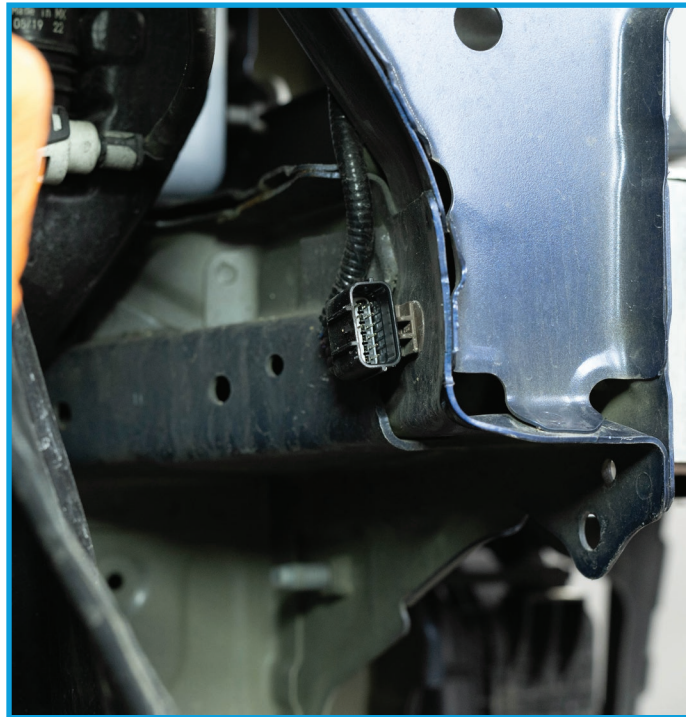


6

Finally, use a small flat head screw driver or plastic scraper to release the (6) tabs securing the bumper to the bottom of the headlight and fender. Repeat on both sides.



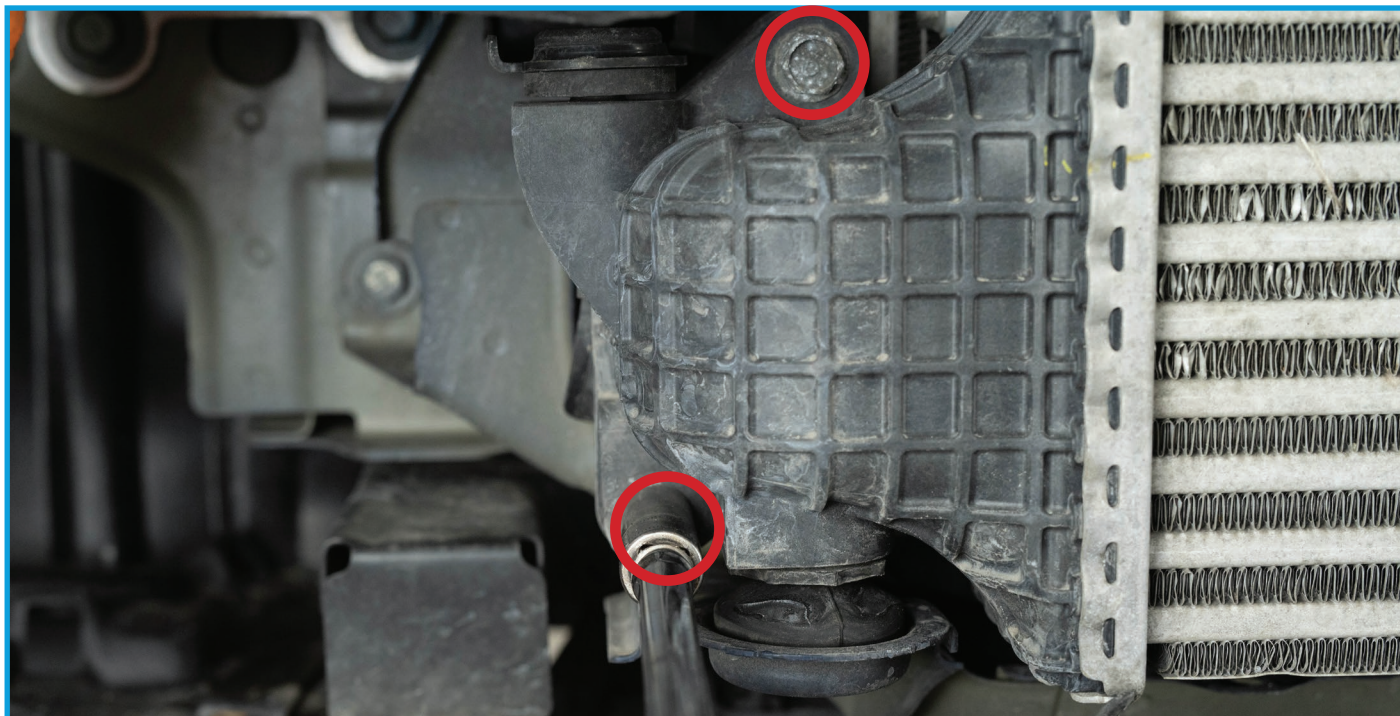
- 7 The bumper should now be free to pop off forwards. There is one electrical connector on the right side of the vehicle side that will still be holding the bumper to the chassis, so unplug this and carefully set the bumper to the side.



- 8 Remove the 6 plastic clips holding in the plastic splash tray underneath the factory intercooler. Remove this tray and set it aside.



- 9 Remove the 2 12mm bolts on the right-hand side of the intercooler that bolt up to the factory chargepipe.



- 10 On the left-hand side of the car, loosen up the clamp securing the chargepipe to the intercooler's end tank and pop the rubber coupler off of the the intercooler.



11

Remove the 12mm bolt that secures the upper mounting bracket for the intercooler core. Remove the brackets for both sides of the intercooler.



12

With the upper mounting brackets off, you should be able to remove the factory intercooler from the chassis. Make sure that you remove the rubber isolators from the bottom of the intercooler as you will be reusing those on your PRL Intercooler.



13

To make room for installing the larger PRL Intercooler core, you will need to temporarily remove the front crash beam. You can do this by removing the 6 long 12mm bolts/nuts, 3 on each side of the beam. Set this all aside for now.



14

Install the included o-ring onto your new Intercooler core into the groove on the passenger's side endtank. Ensure that the groove and o-ring are clear of any debris that might prevent the system from sealing and cause a boost leak.



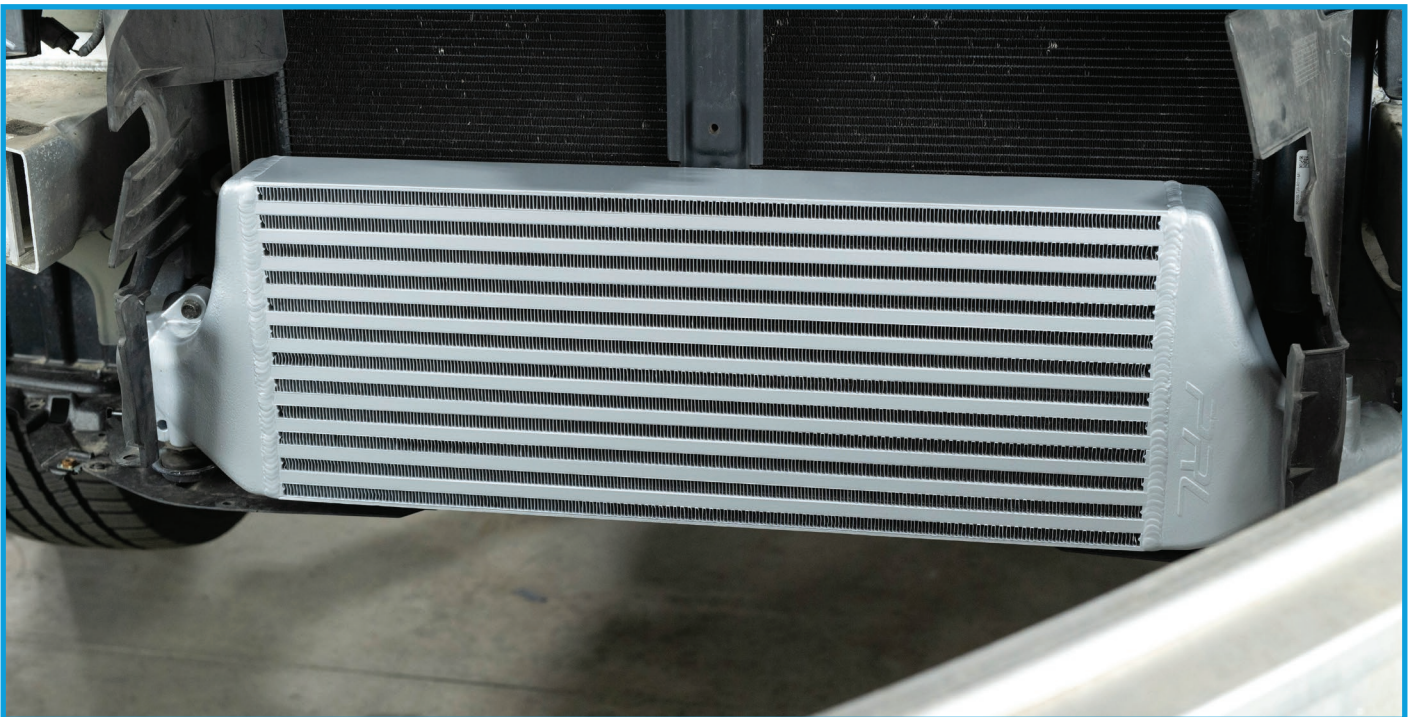
15

You can now install the factory lower rubber isolators onto your PRL Intercooler core as shown here.

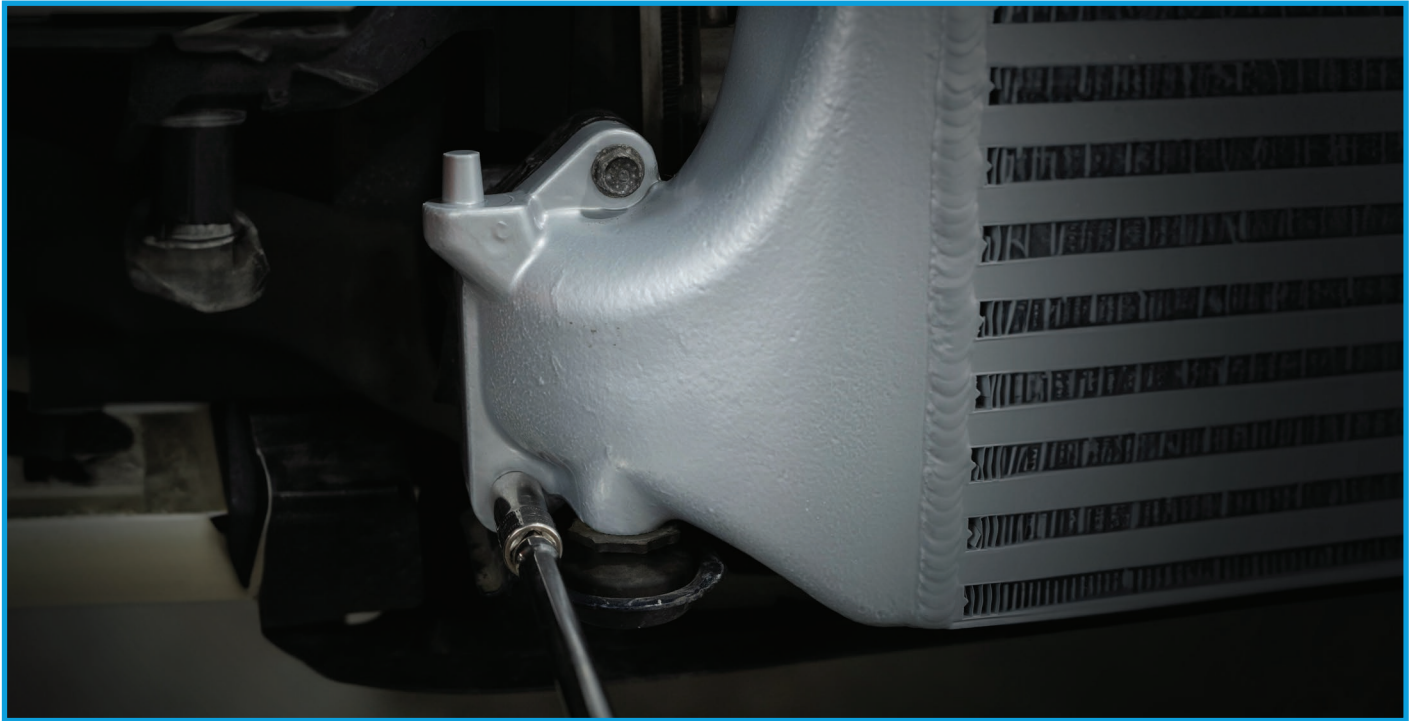


16

With the isolators in place, you can now install your PRL Intercooler onto your RDX. Install the lower rubber isolators back into their places on the lower chassis' brackets.



- 17** Re-use the factory hardware on the right-hand side to bolt the intercooler to the charge piping. Torque these bolts to 18 ft/lbs.

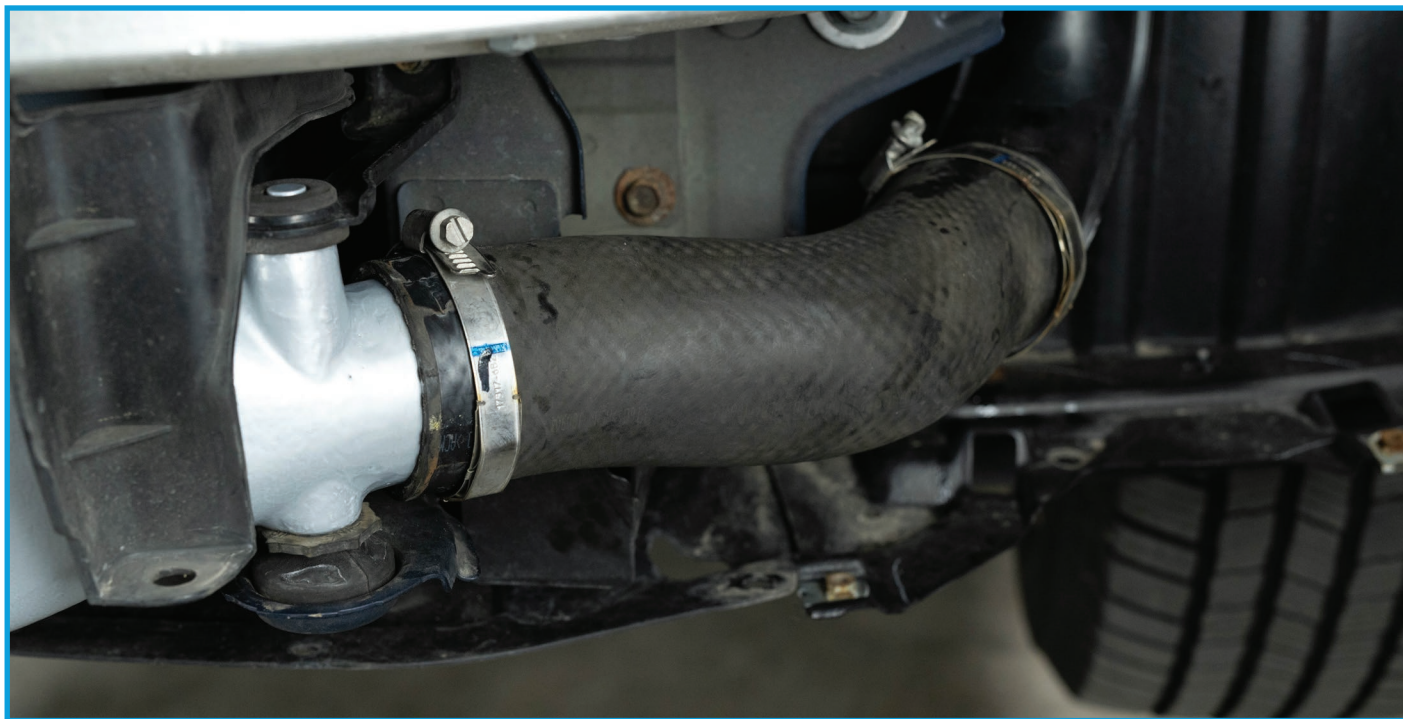


- 18** Now to fully secure your new intercooler to the vehicle, re-install the factory upper brackets and grommets on both side of the intercooler core. Torque the two bolts to 18 ft/lbs.



19

Finally, reinstall the rubber chargepipe coupler onto the left-hand side of the intercooler. Don't forget to tighten up the clamps.



20

NOTE - Acura changed the diameter of the intercooler piping for the 2021+ models years, so for these models, you will need to also install the Acura RDX 2.0T Intercooler Install Kit. This hose installs exactly as the factory rubber one did.



21

With the new Intercooler fully installed, you can re-attach the factory crash beam using the 6 factory 12mm bolts/nuts.



22

Finally, reverse steps 2-7 to reinstall the front bumper. Once everything is back together, you are all good to go!



Road Testing Your PRL Intercooler Upgrade

1. Start the vehicle with the transmission in neutral and the emergency brake engaged. Assess to make sure of any possible issue(s) and then make any subsequent adjustments as they are needed.
2. Test drive the vehicle to ensure everything is in working order.
3. If after the road testing, everything is good to go, enjoy your PRL Intercooler Upgrade! Thank you for being a part of the #PRLARMY.

If you have any questions/concerns please reach out to us at:

support@PRLMotorsports.com

Please provide a full description of your issue, ideally with any pertinent images or video clips that can help our team address the issue.

Please note: All support tickets are addressed during business hours and in order of received.

As stated at the beginning of this guide, the PRL Intercooler Upgrade has been specifically designed to be 100% compatible with the factory ECU calibration. No tuning is required to benefit from the advertised gains and performance. Our intercooler is designed to fit like factory but be a more optimal and overall better performing unit. Under conditions in which the horsepower of the vehicle is increased, this unit is rated for 600HP.

Required Maintenance

PRL Motorsports thoroughly recommends visually inspecting your products during any routine maintenance like oil changes, tire rotations, and filter changes or cleanings. Please make sure to check your connections on all mounted parts periodically to ensure that they have not come loose over time. Always make sure to not drive through any debris that can damage the fins of the intercooler. Nor drive over or into anything that could puncture or crack the intercooler.



1400 RANDALL COURT - UNIT 104
EXPORT, PENNSYLVANIA 15632
www.PRLMotorsports.com

Follow Us!
PRLMotorsports

