

# PLAZMAMAN

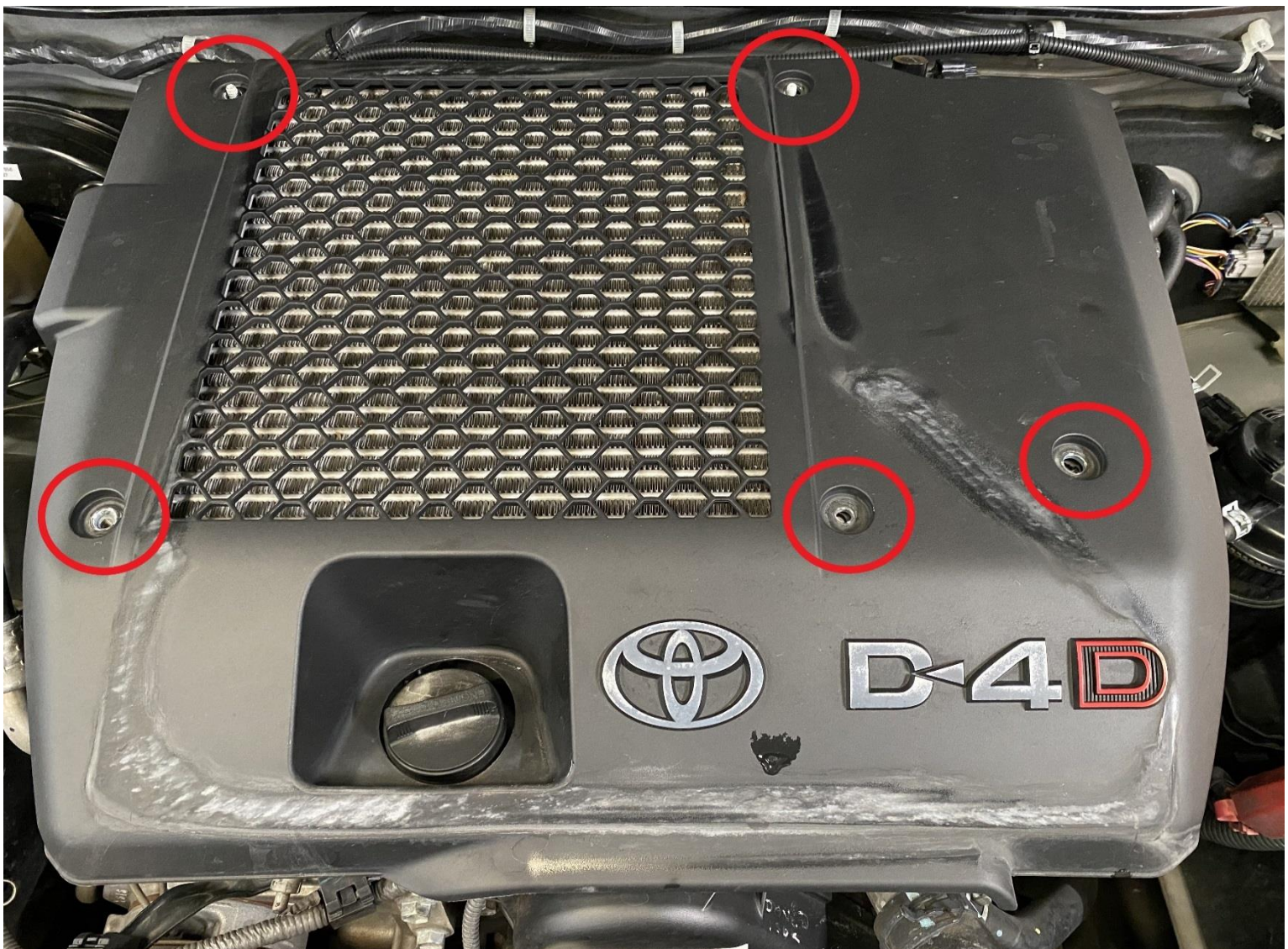
## N70 HILUX INTERCOOLER KIT INSTALLATION GUIDE





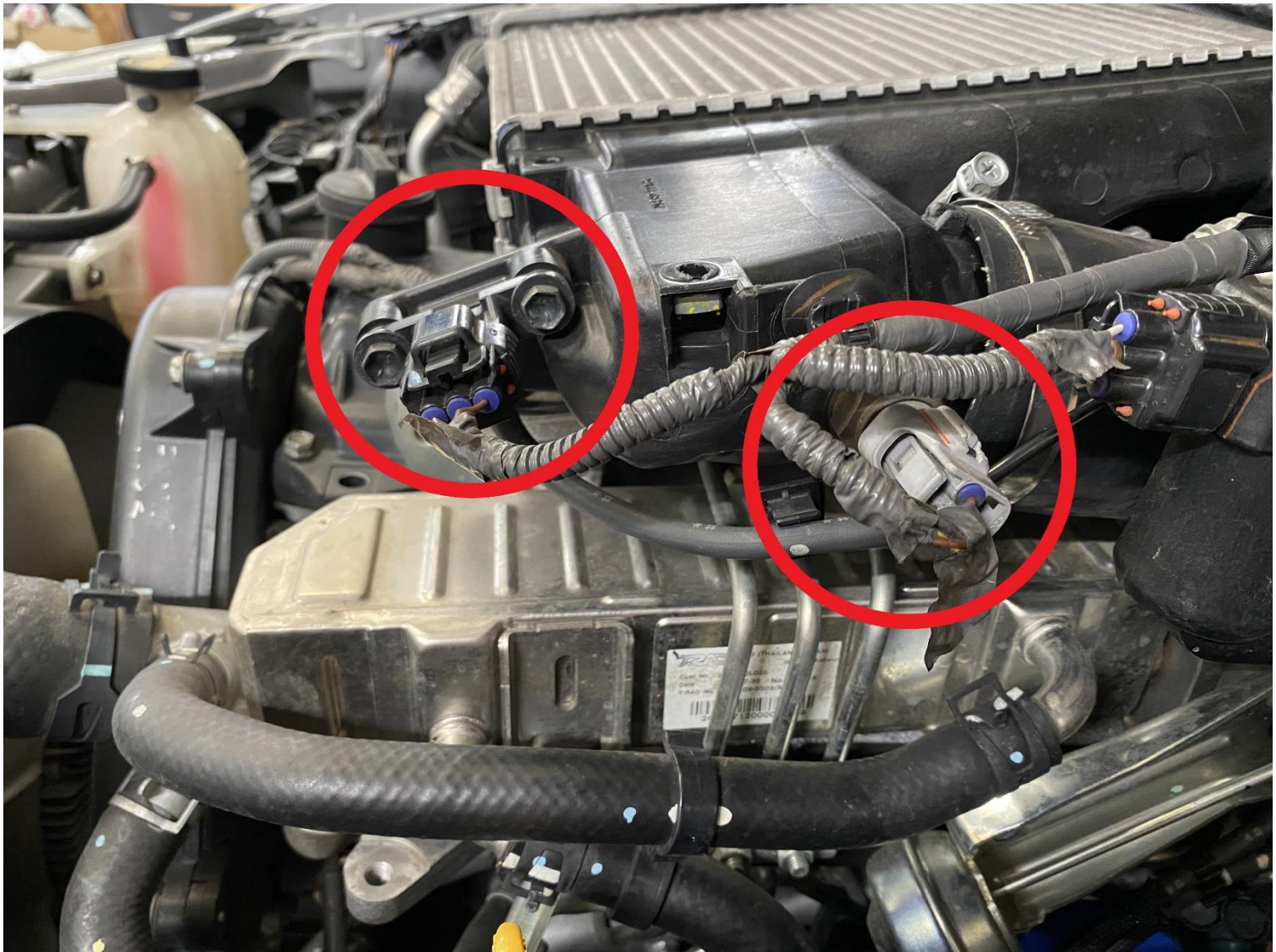
# OEM INTERCOOLER REMOVAL

- 1) Start by removing the engine cover.





- 2) Loosen the 4 hose clamps on the silicones attaching the factory intercooler to the turbo outlet and intake manifold.
- 3) Disconnect wiring connectors and vacuum hose from MAP and air temp sensors.



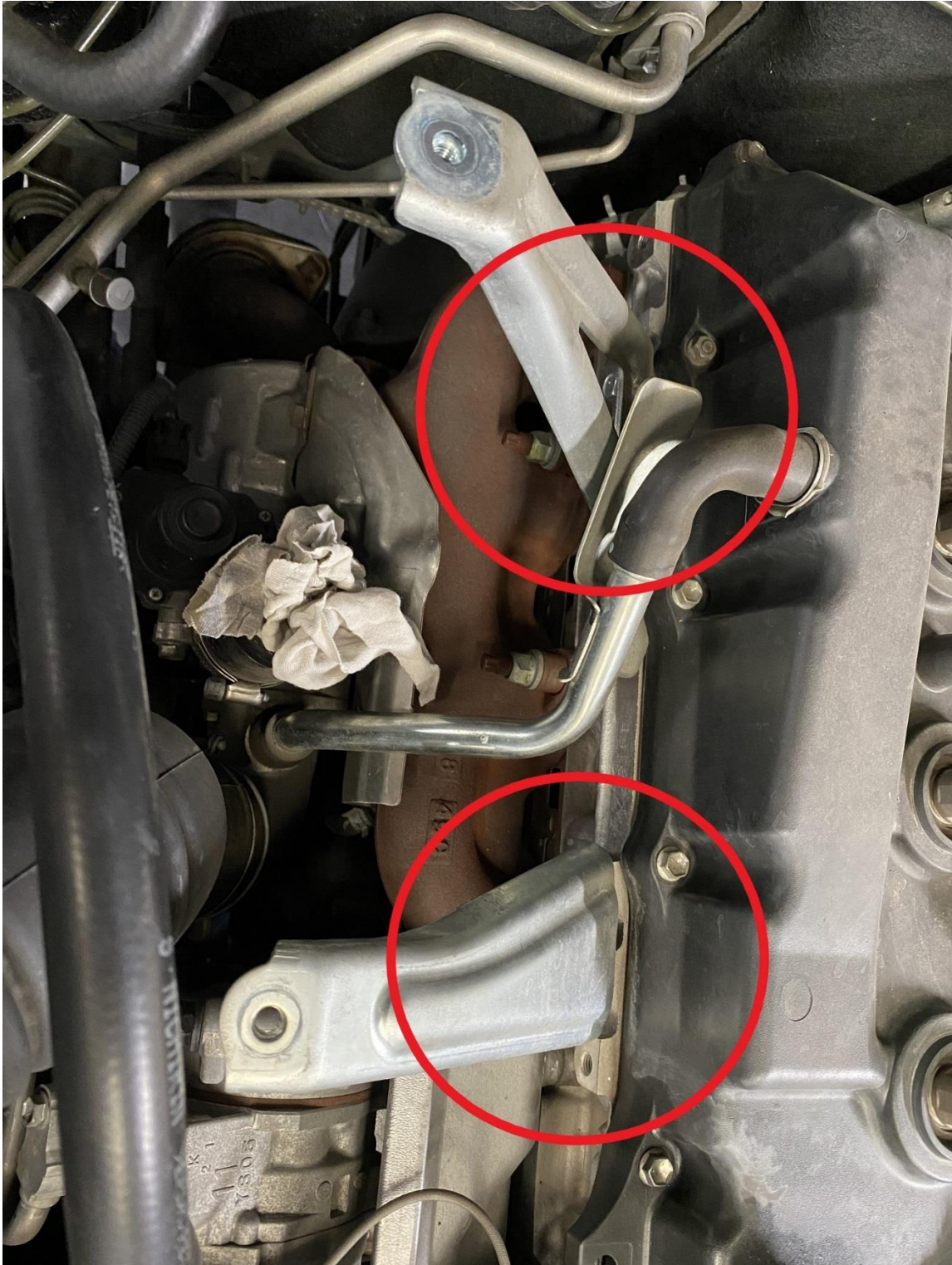


- 4) Remove the bolts securing the OEM cooler.  
(Once removed ensure you protect the turbo outlet and throttle body from debris entering during the installation process). Proceed to remove the sensors for later installation.





- 5) Unbolt 2X factory intercooler support brackets from the head on driver side.

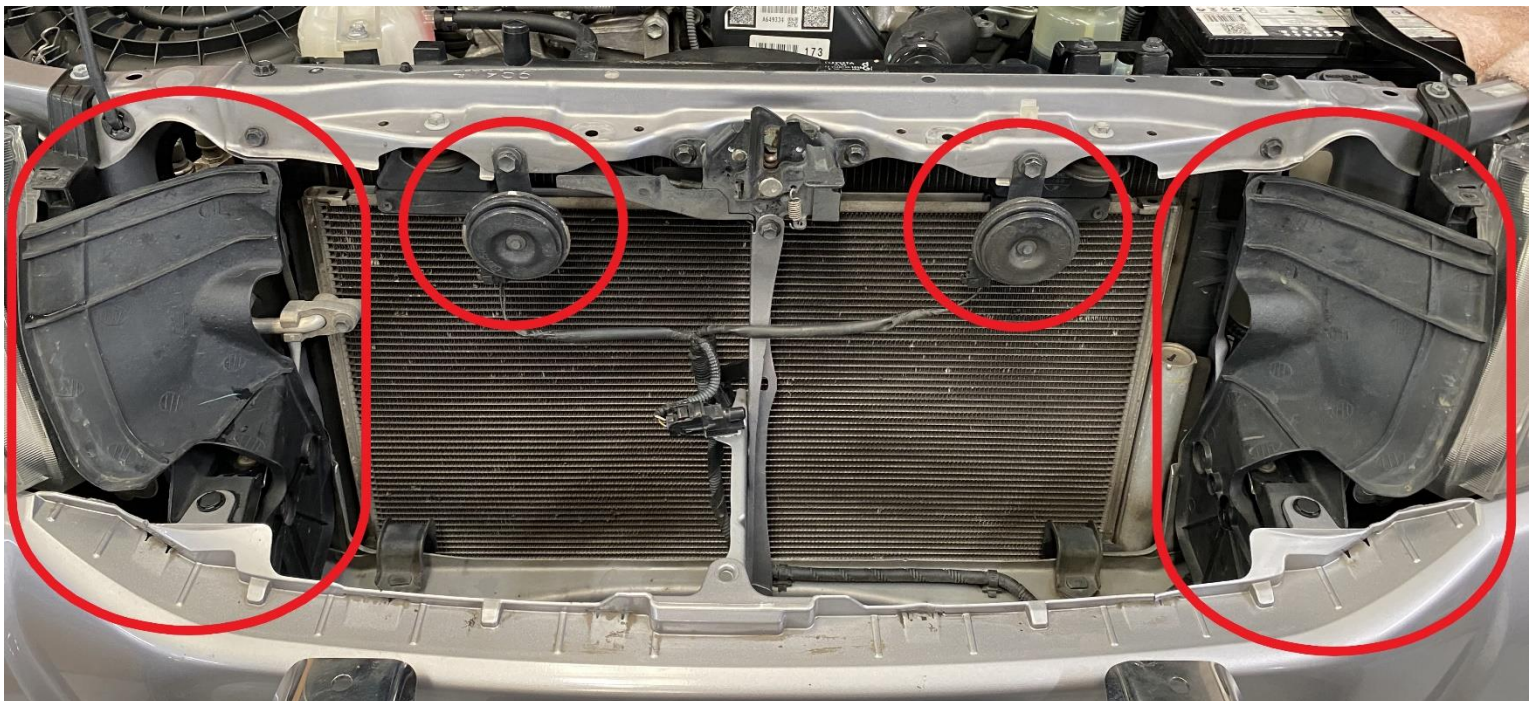




Remove the front grill.

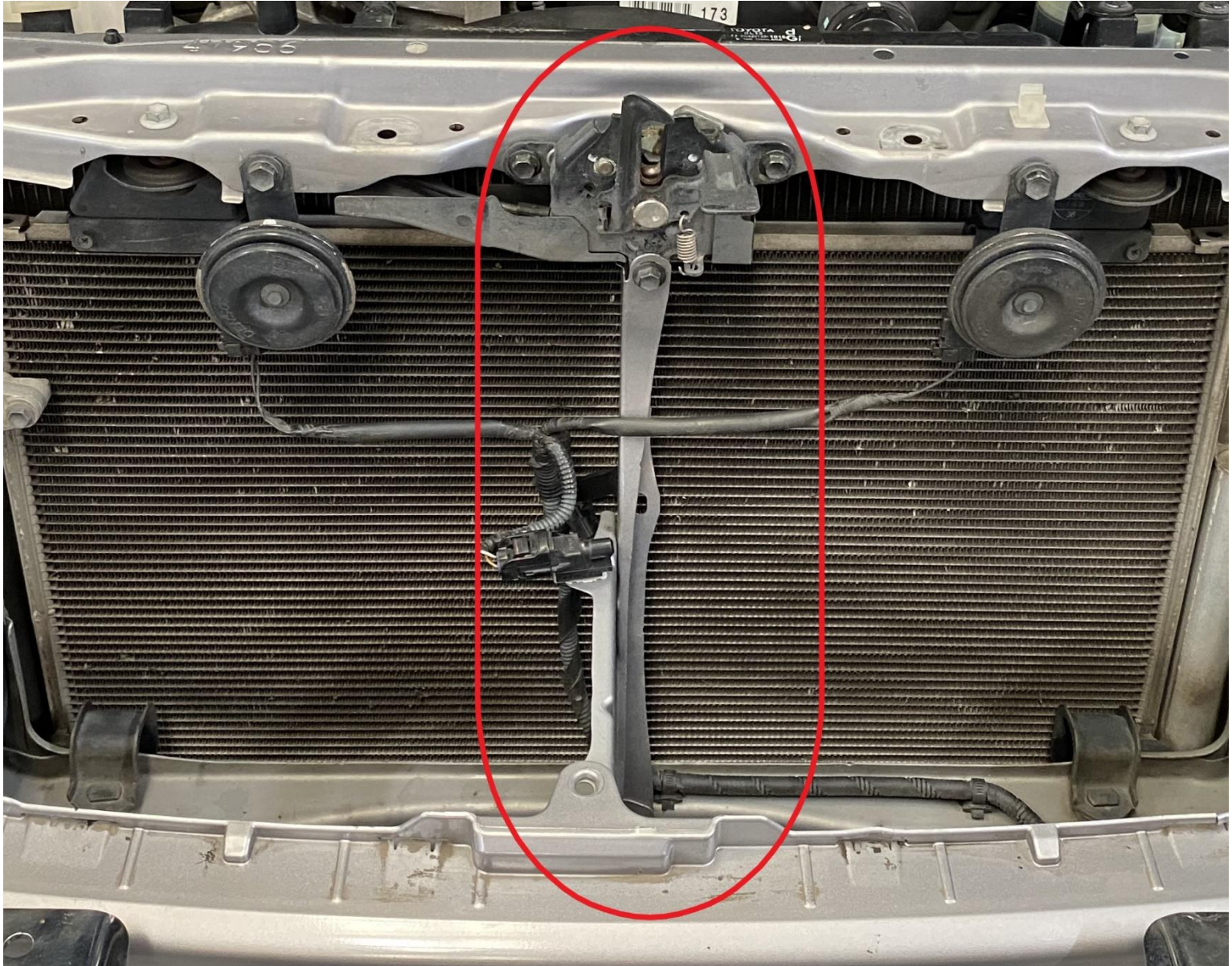


- 6) Remove plastic inserts beside both head lights and unclip the wiring from centre support brace and horns.





- 7) Unbolt horns, centre support brace and the bonnet latch.



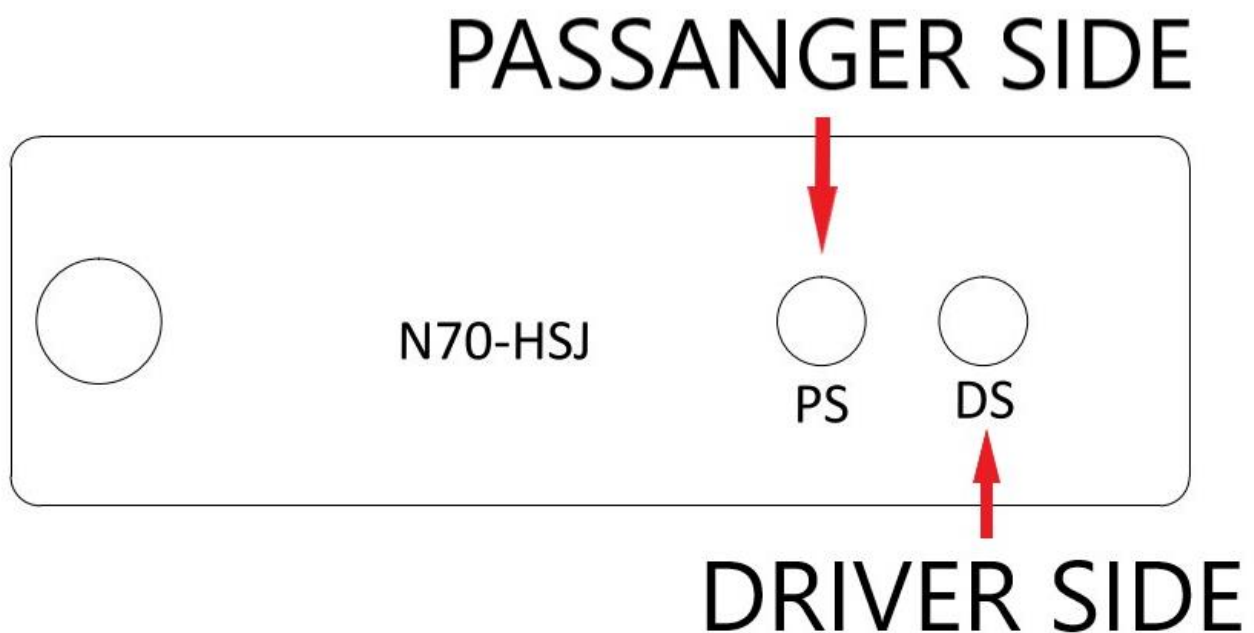


# PLAZMAMAN INTERCOOLER INSTALLATION

WE WILL NOT BE HELD RESPONSIBLE FOR ANY DAMAGE OR MISTAKES MADE DURING THE INSTALLATION PROCESS.

- 8) Using the supplied jig in your kit, remove radiator bracket bolt one side at a time and centre the locator hole in the square cut-out of the rad support as shown in pictures.

## N70 HOLE SAW JIG







**SANDWICH JIG  
BETWEEN RAD SUPPORT  
AND RADIATOR**

**CENTRE PASSANGER  
SIDE JIG HOLE IN  
EXISTING SQUARE  
CUTOUT**





**CENTRE DRIVERS SIDE JIG HOLE  
IN EXISTING SQUARE CUTOUT**

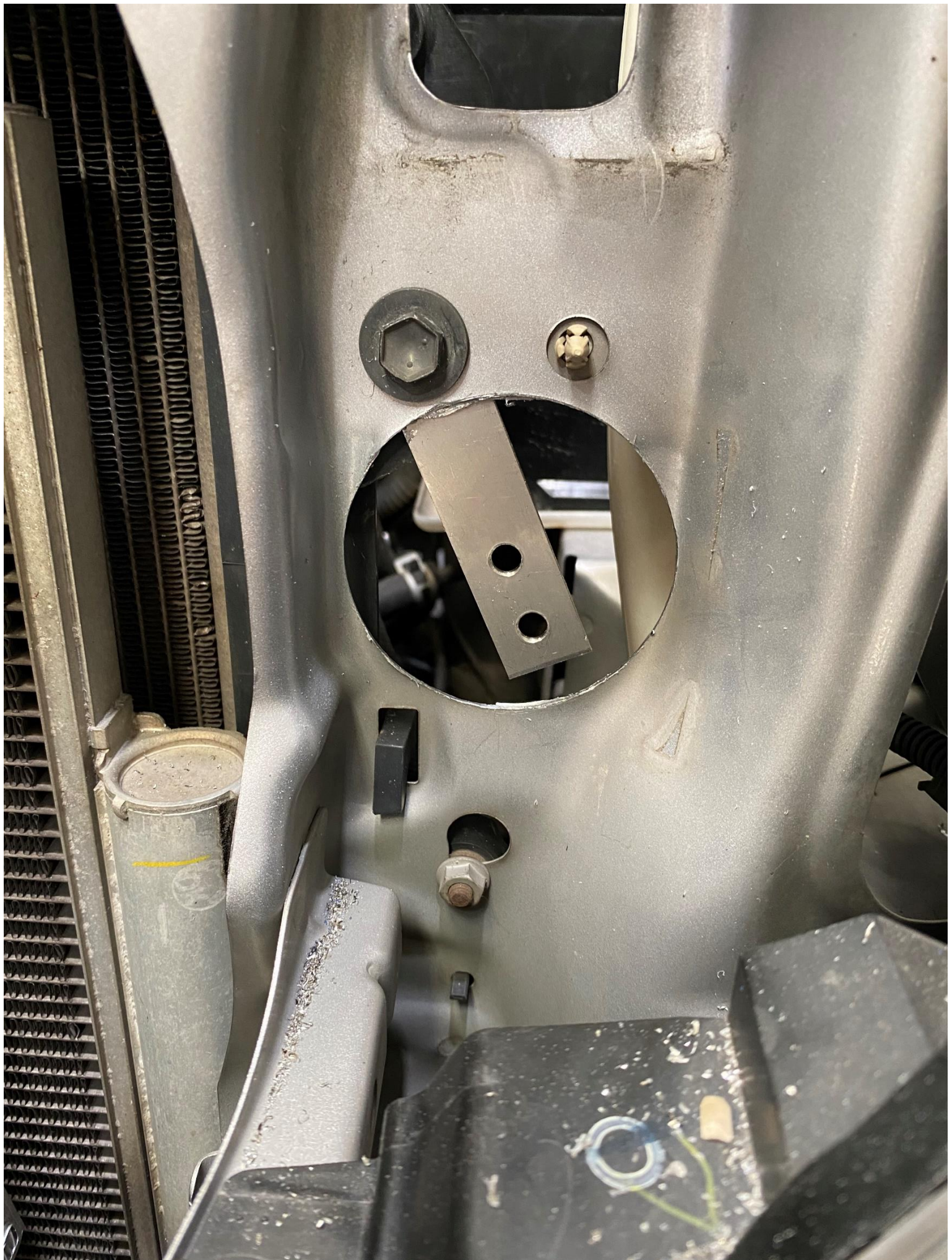
**SANDWICH JIG  
BETWEEN RAD SUPPORT  
AND RADIATOR**



- 9) Ensure jig is tight, then using a 70-72mm hole saw, drill out the radiator support. **(Be careful not to drill through the jig or anything behind the radiator support).** Then repeat on opposite side.











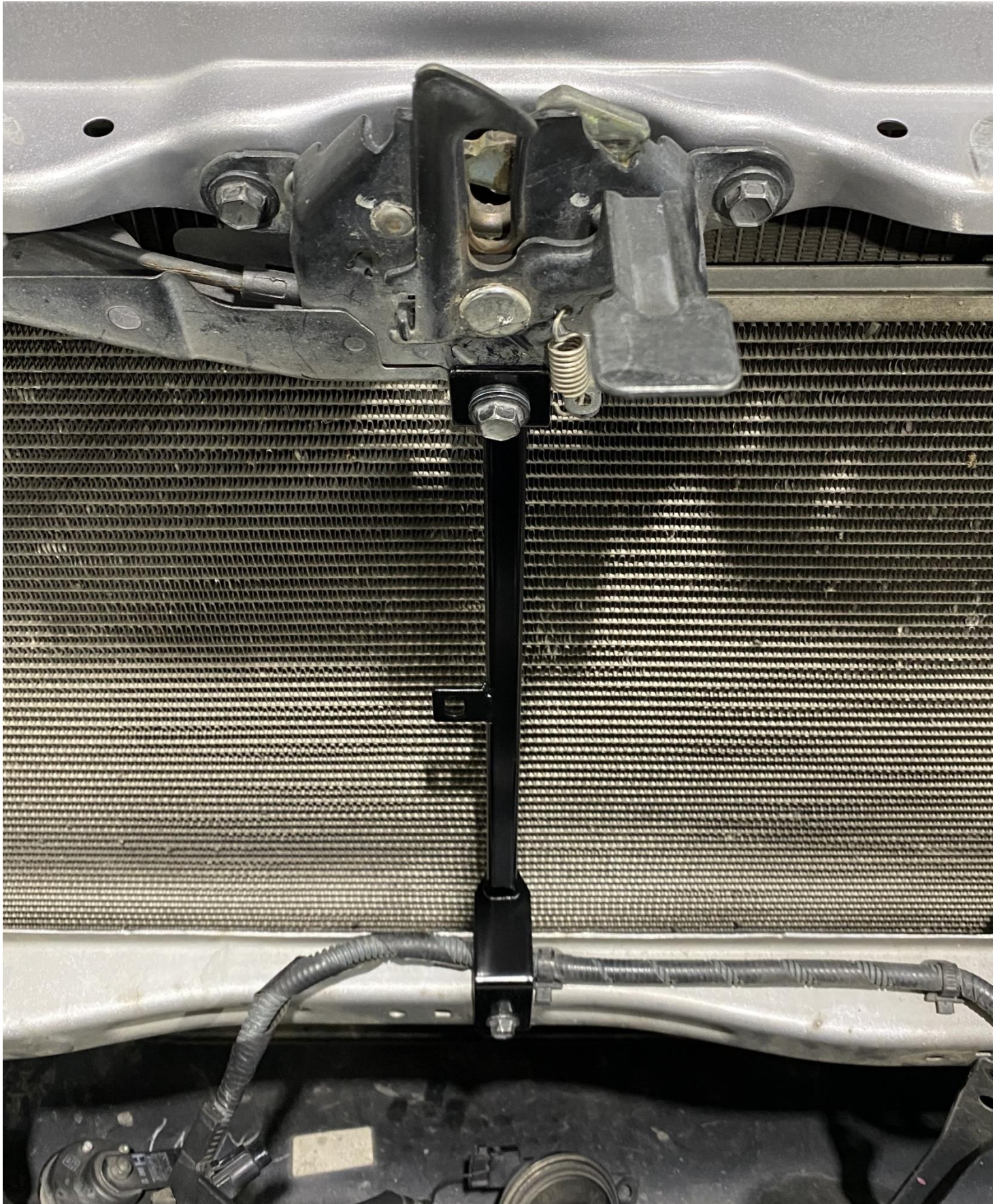


- 10) Debur holes and fit supplied pinch weld to the newly cut hole.
- 11) Trim tab off plastic radiator bracket on drivers' side to clearance for the piping kit.



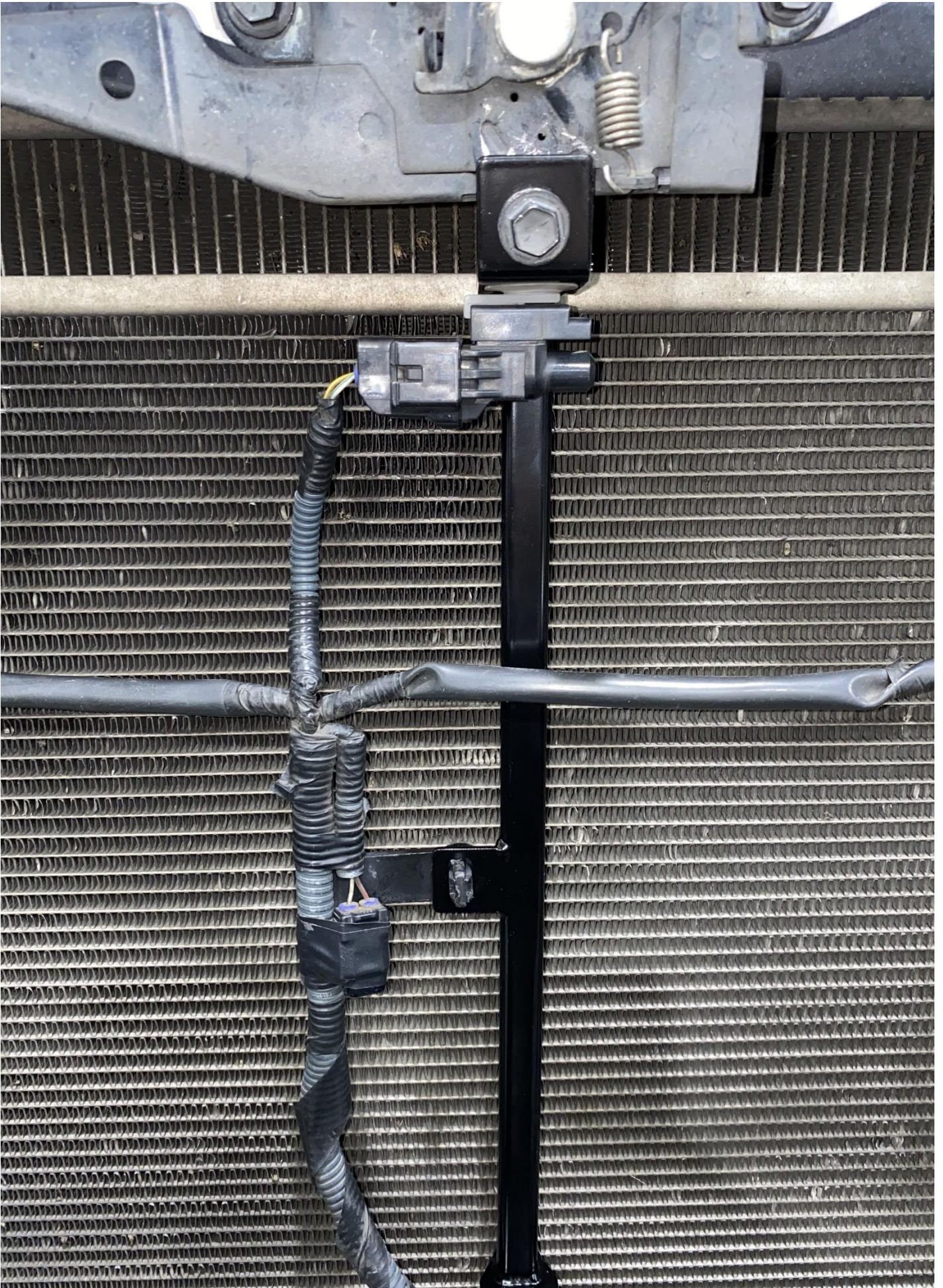


- 12) Bolt in the new supplied rad support brace with bonnet latch. Ensure factory bolts are used in their original positions.





13) Clip wiring back onto rad support brace.





- 14) Install the new horn bracket supplied to your horn utilizing the M8x16mm hardware in the kit.  
**(Note the bracket is etched with orientation)**  
Now temporarily bolt your horns to their original mounting positions with the supplied M8x20 hardware. **(Keeping this loose will help with installation later)**

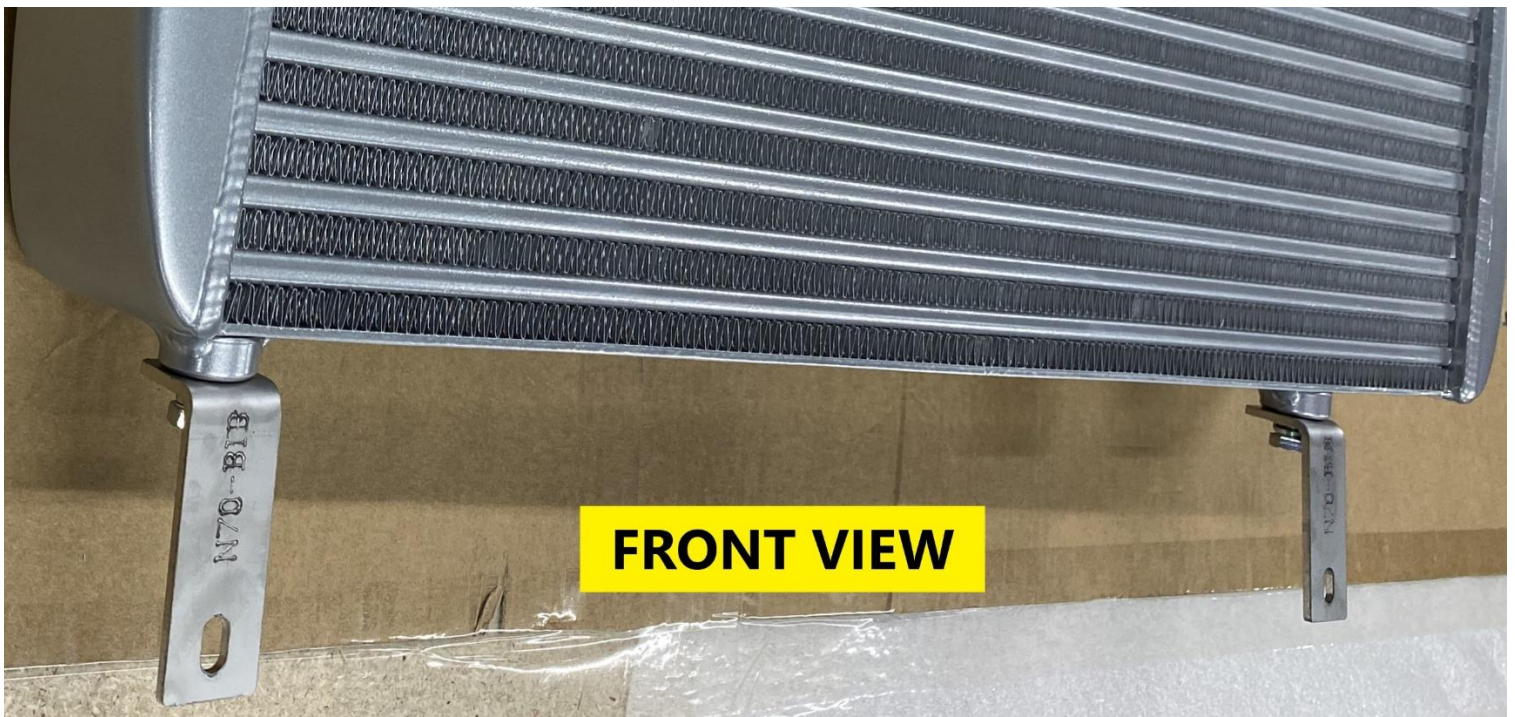




15) Using 4X supplied M8x16 hardware loosely bolt top and bottom intercooler brackets to Plazmaman intercooler in the orientation shown in pictures.

**N70-BIB = Bottom Intercooler Bracket**

**N70-TIB = Top Intercooler Bracket**





16) Remove factory plastic skid plate support bolts.



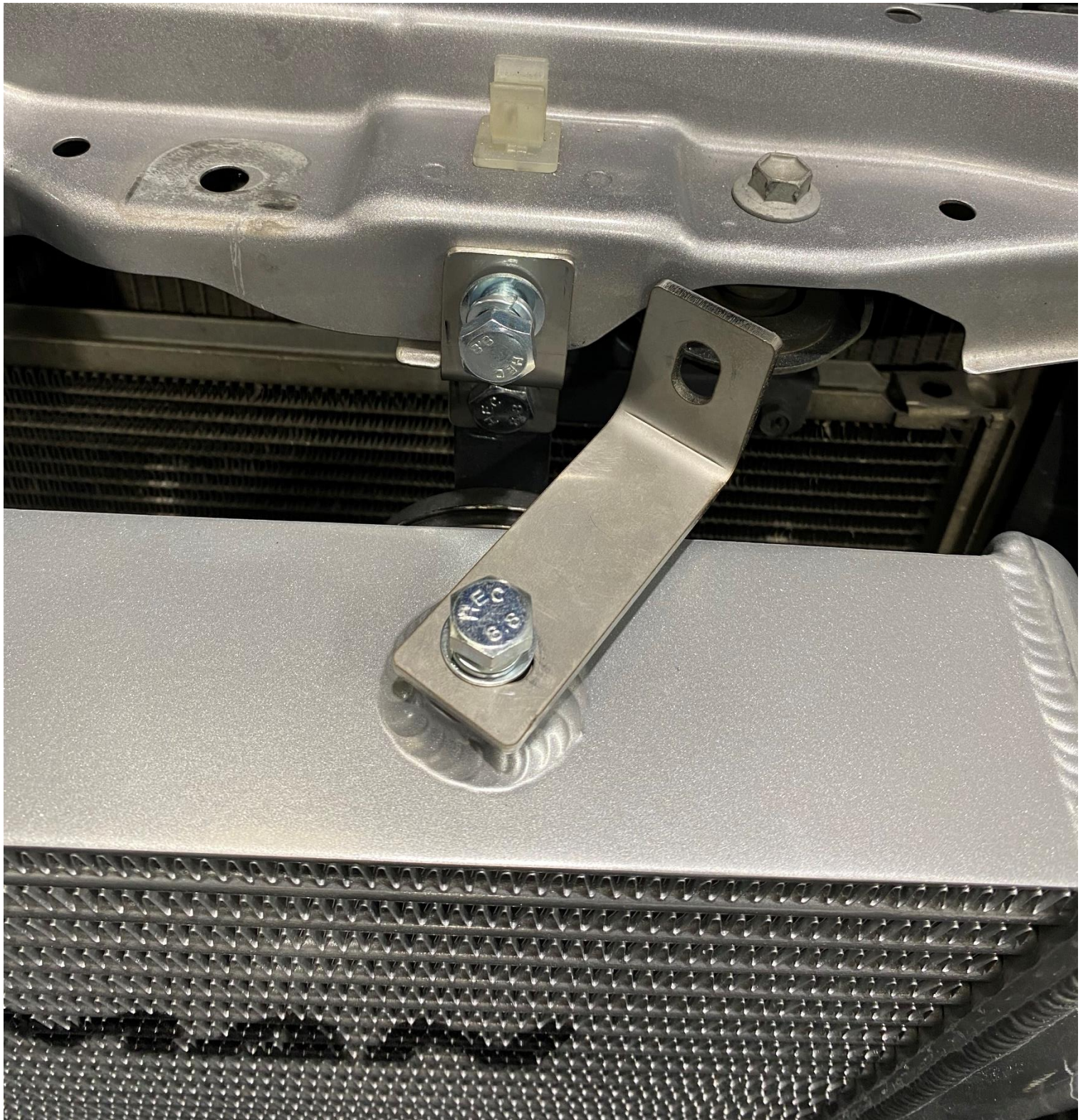


- 17) Now is the best time to push the 2.25"-2" silicone reducer onto the driver's side intercooler outlet. Position appropriate hose clamps in best rotation for install.
- 18) Place Plazmaman intercooler into position and start by loosely bolting the bottom intercooler brackets that utilize the factory skid plate support bolts.





- 19) Loosely bolt the top intercooler brackets one side at a time by adding them in front of the horn brackets. **(Be sure to support the horn while you carry out this process, so it doesn't fall)**









20) You are now ready to install the hot side piping, first fit the 2" straight silicone to your turbo outlet and fit your new hot side pipe utilizing the appropriate hose clamps.

(At this stage your intercooler will have movement up-down and side to side for alignment of the piping kit)



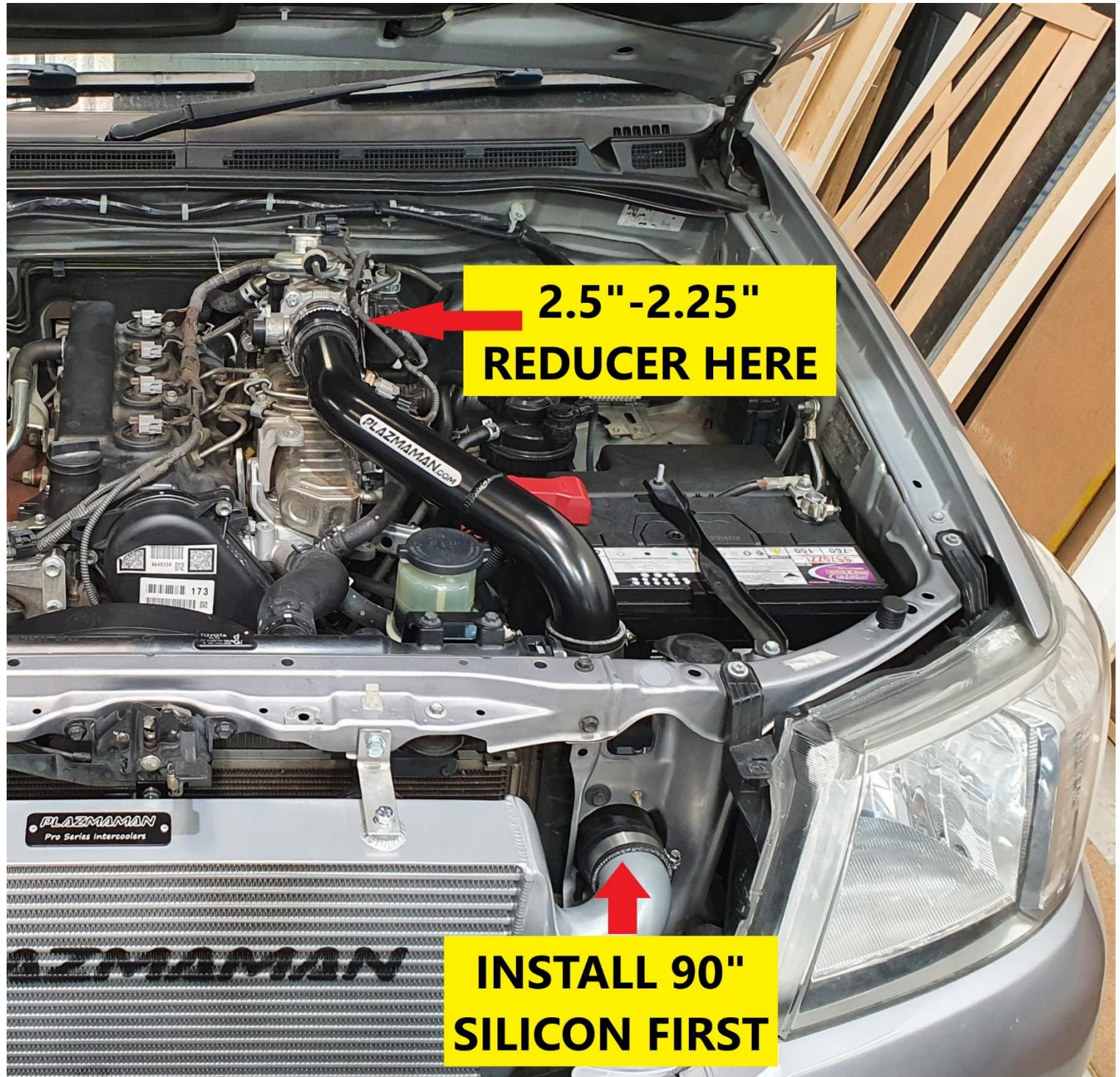


- 21) On the passenger side, remove and replace this m6 shroud bolt with the new dome head hardware.





22) Install your MAP sensor and screw on air temp sensor to your new cold side pipe. Install your cold side pipe as shown below.





- 23) Be sure to properly align intercooler with holes and check pipe clearances before tightening all intercooler brackets and hose clamps.
- 24) Cut OEM clip off sensor wiring harness and zip tie accordingly.





25) Remove factory rubber dust seal from underneath bonnet.

26) Re-install your grill

27) Your new Plazmaman intercooler kit is now installed, you will have the following items below left over after.

