BMS Aluminum Charge Pipes for 2022+ Toyota Tundra 3.4L Install Guide

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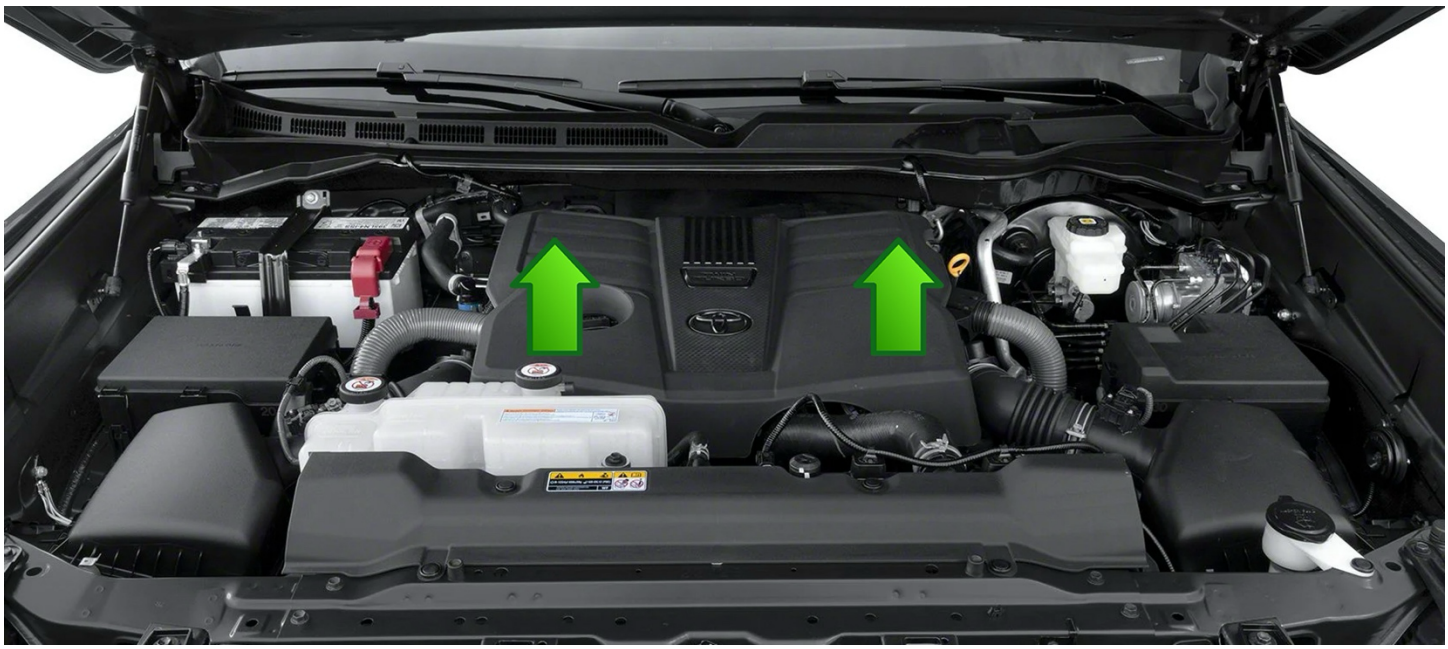
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⚠ **ATTENTION: Before starting installation lock the doors and place the key at least 20 feet away from the vehicle. Wait 10 minutes for the vehicle to go to sleep or disconnect the negative (-) battery terminal.**

Tools Needed: 7mm, 8mm, 10mm socket, 5mm allen wrench, 3/16” allen wrench, T30 Torx, socket extensions and pliers.

Remove the engine cover by pulling up on it in the front and pulling it towards the front of the car.



Remove the driver’s side intake lid by loosening the #1 clamp with a 10mm socket. Unclip the two #2 clips. Tilt the airbox lid and rubber boot out of the way.



1. Unplug the fan clutch connector.

2. Unplug the bypass valve actuator connector on each charge pipe (left and right)

Remove the (2) 10mm bolts that hold the charge pipe bracket on. (Circled in red)

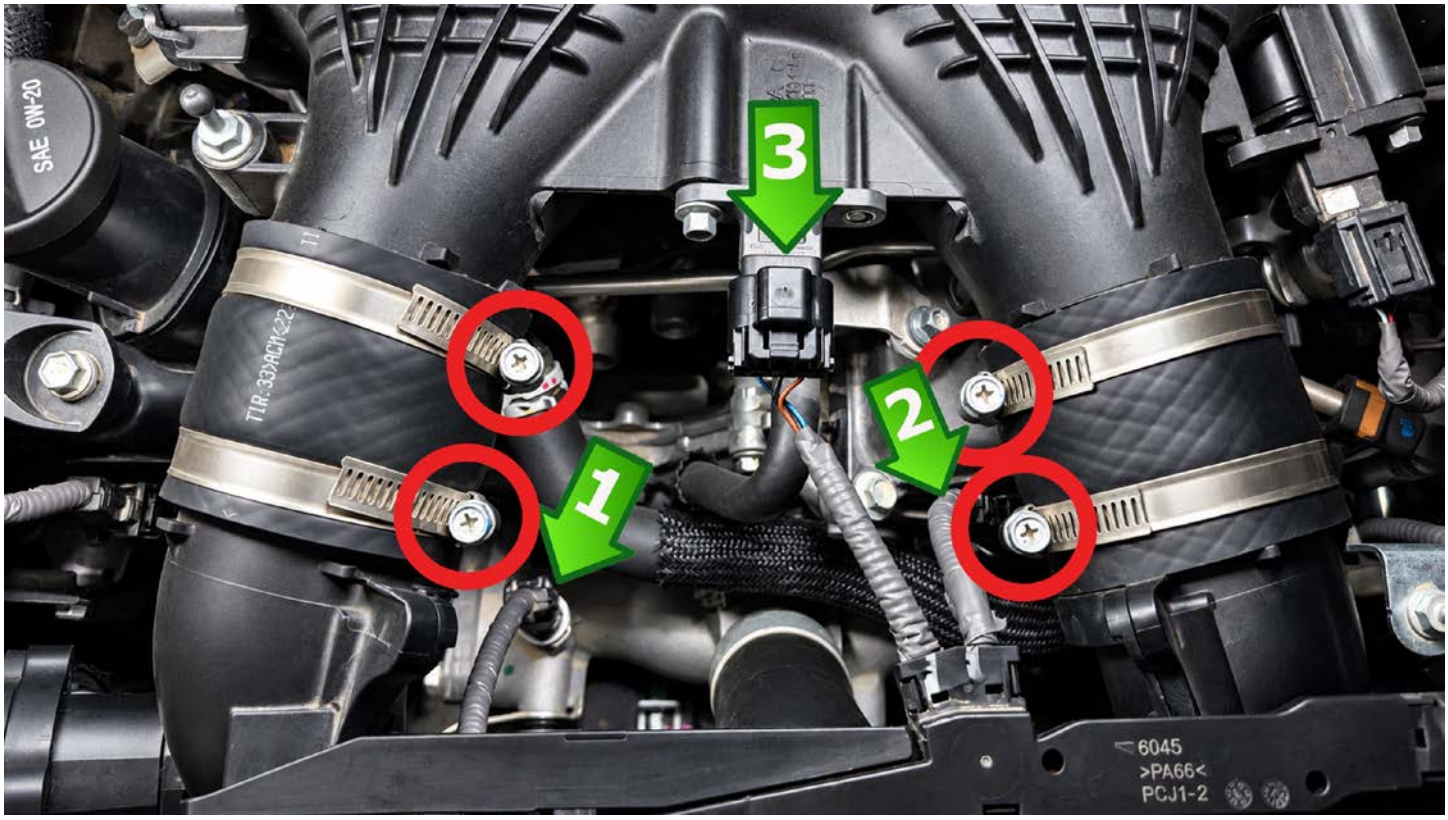


1. Unplug the fan clutch connector.

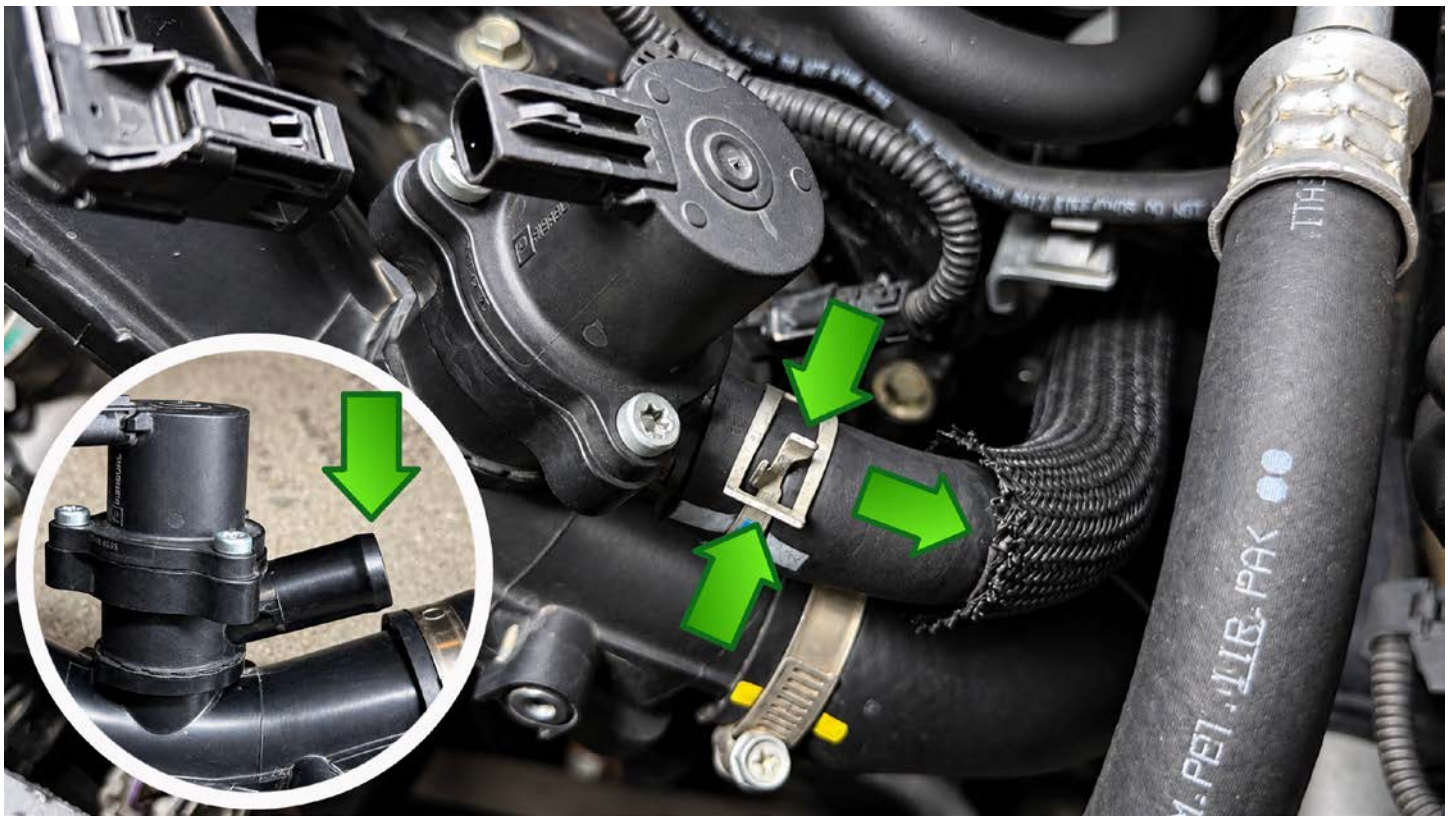
2. Unplug the camshaft position sensor connector located directly behind the driver's side charge pipe.

3. Unplug the MAP sensor connector from the heat exchanger.

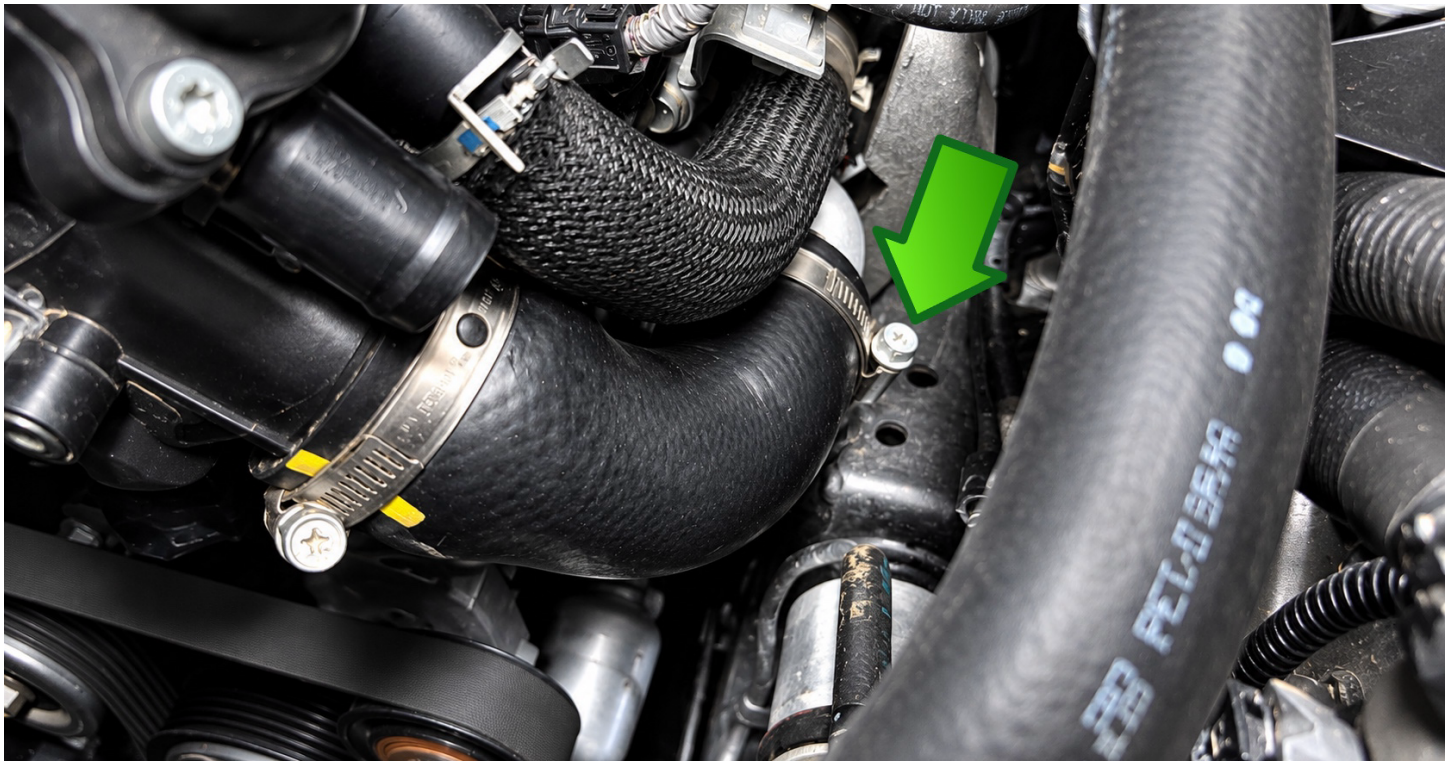
Loosen the hose clamps with a 10mm socket. (circled in red)



Pinch the hose clamp with pliers and slide it off the fitting on the recirculation hoses. You will reuse this clamp so leave it on the hose. Pull the hose off the fitting.

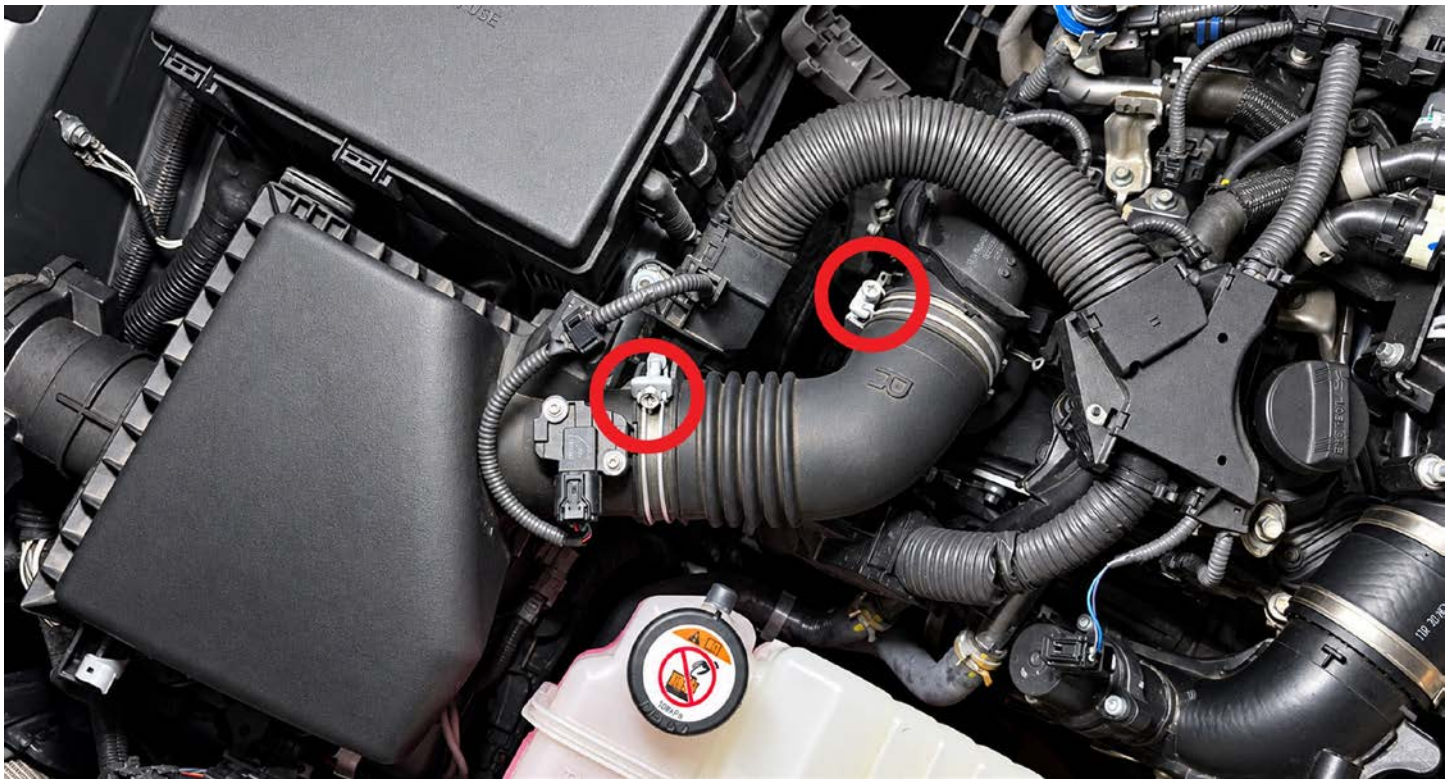


Loosen the hose clamp with a 10mm socket.



Remove center bracket bolt and carefully remove the charge pipe from the vehicle.

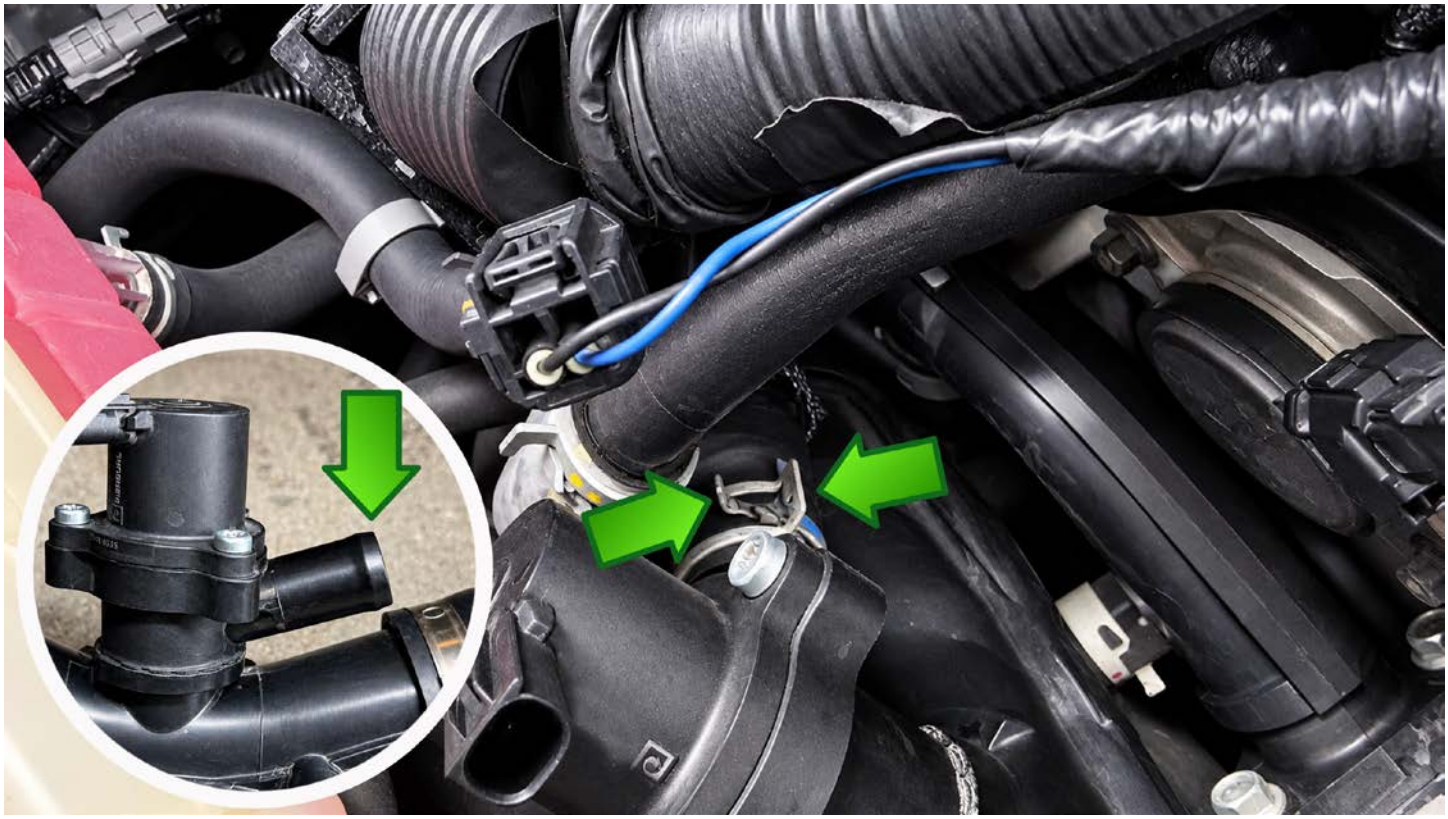
Loosen both clamps on the passenger side intake tube with a 10mm socket and remove the rubber boot. This will help access the lower clamp on the factory charge pipe for removal.



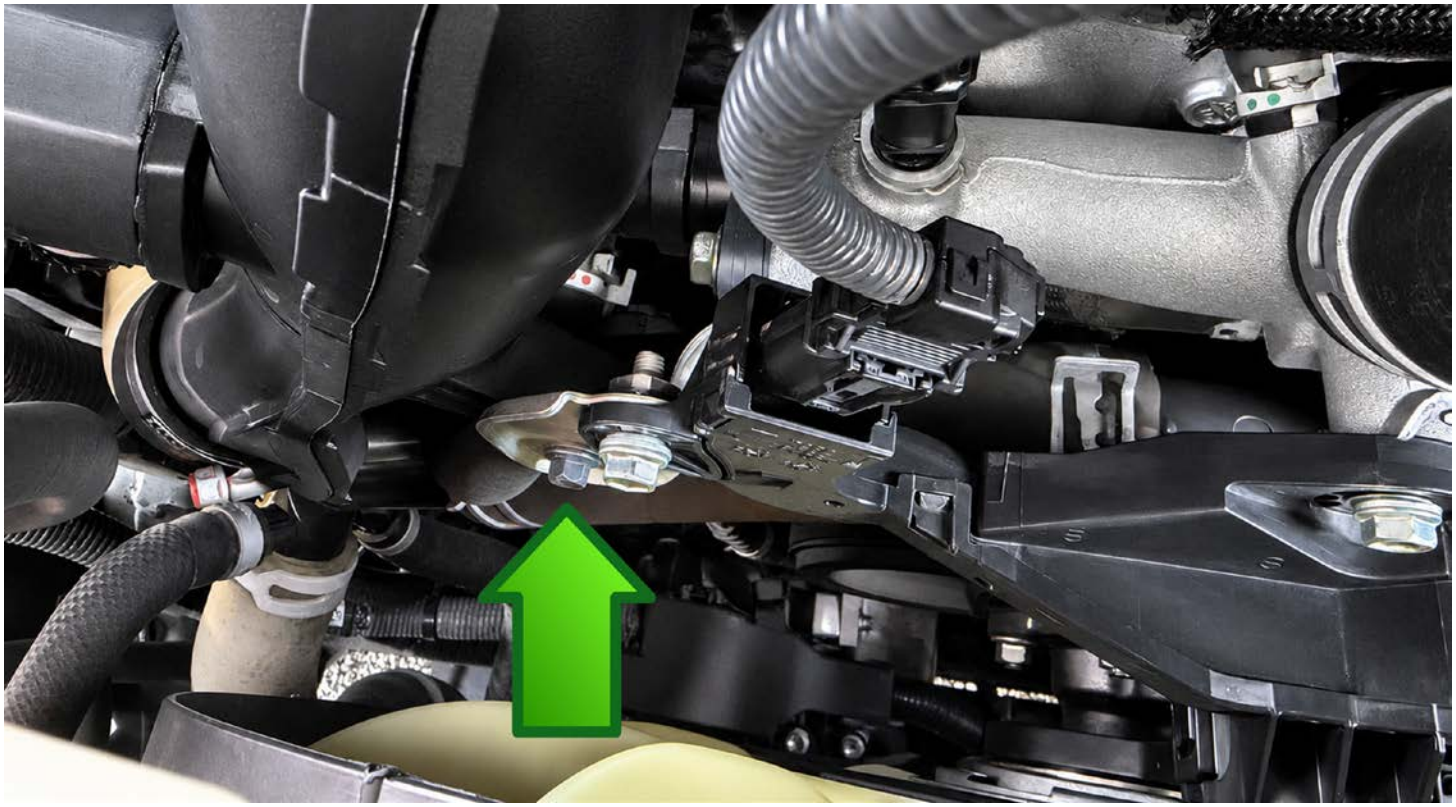
Loosen the lower charge pipe coupler hose clamps with a 10mm socket.



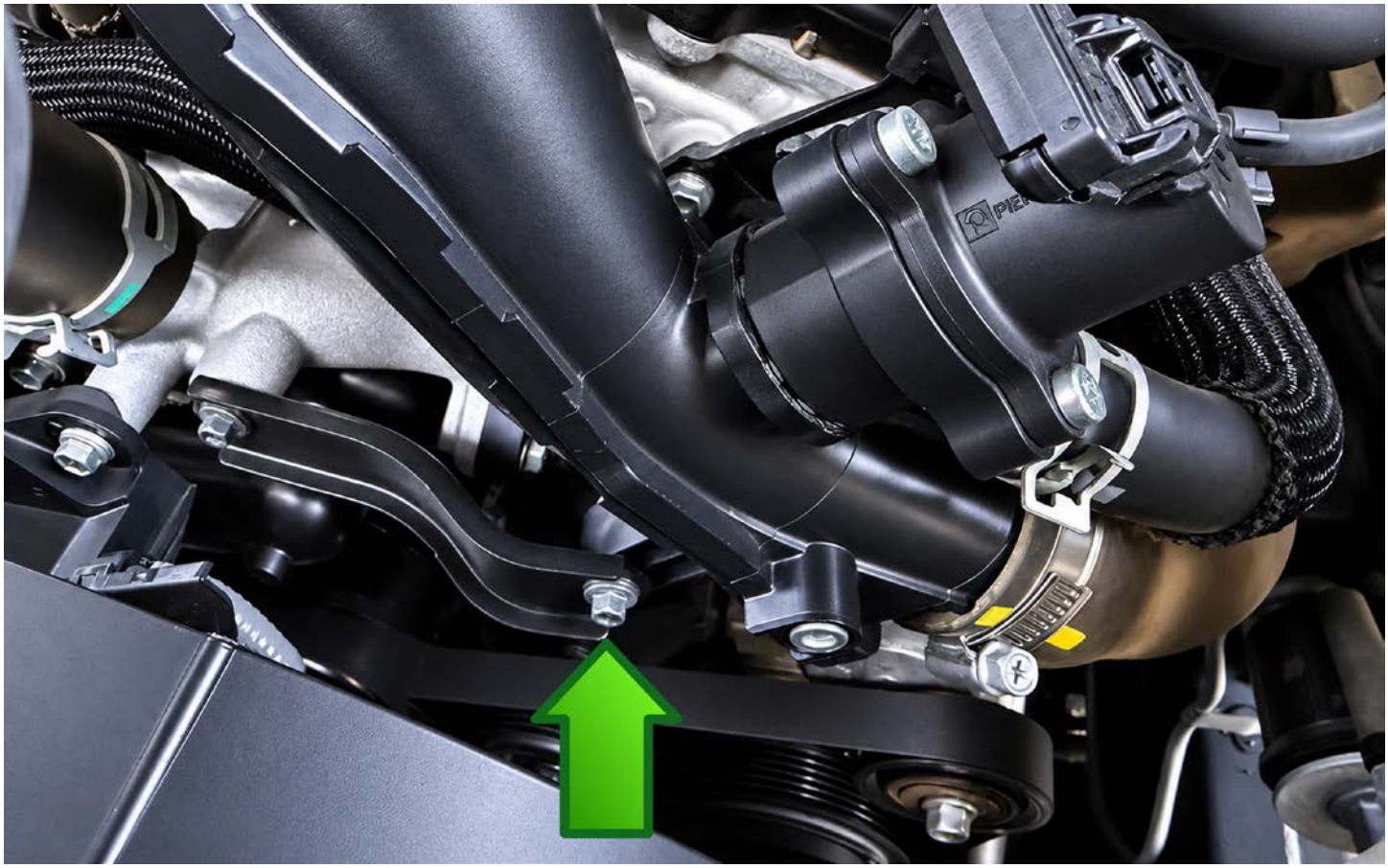
Loosen the center bracket bolt and pull the charge pipe out to gain access to the recirculation tube and pinch the clamp and slide it down past the fitting and carefully remove the charge pipe from the vehicle.



Remove the 7mm center bracket bolt that secures the passenger side charge pipe.



Remove the 7mm center bracket bolt that secures the driver's side charge pipe.



Remove the diverter valves from each charge pipe by removing all 3 torx screws.



Loosely attach the included silicone couplers at the same angle as the factory charge pipes and bolt the diverter valves to the charge pipes recusing the factory torx T30 Torx screws.



If using the BMS Blow off Valve (BOV) Adapters (shown below) refer to their install guide for installation. https://jb4tuned.com/instructions/Tundra_BOV_Install_Guide.pdf



⚠ **CAUTION:** Clean any grease, oil, and lubrication off charge pipe fittings on the vehicle. Tighten all hose clamps with a socket. Failure to do so may cause them to slip off under boost.

Replace the brass 1/8” NPT pipe plugs with the included silver 1/8” NPT pipe plugs with brown thread sealer to prevent boost leaks.



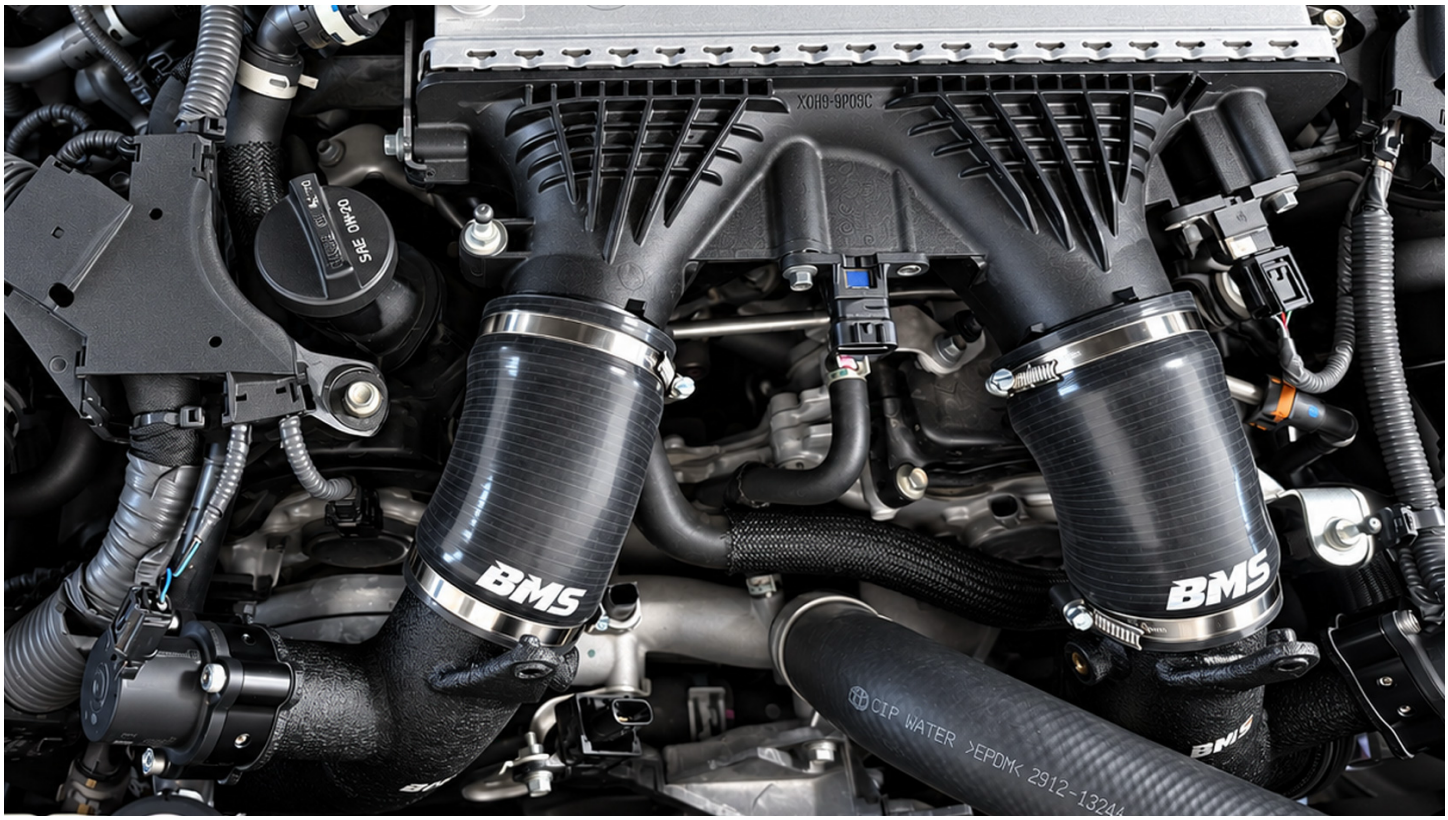
Loosely attach the hose clamps and slide each pipe all the way on the lower fittings on both sides.



Attach the recirculation hoses to the charge pipes and pinch and slide the factory clamp onto the fitting area as shown below on both sides.



Attach the upper hoses to the heat exchanger. Adjust the charge pipes so the bolt holes in the harness bracket align with the mounts on the charge pipes. Make sure there is enough pipe inside the silicone couplers for the clamp to secure it. Securely tighten all the clamps on the charge pipe clamps with a 7mm socket.



Put the intake tubes back on and tighten clamps with a 10mm socket.



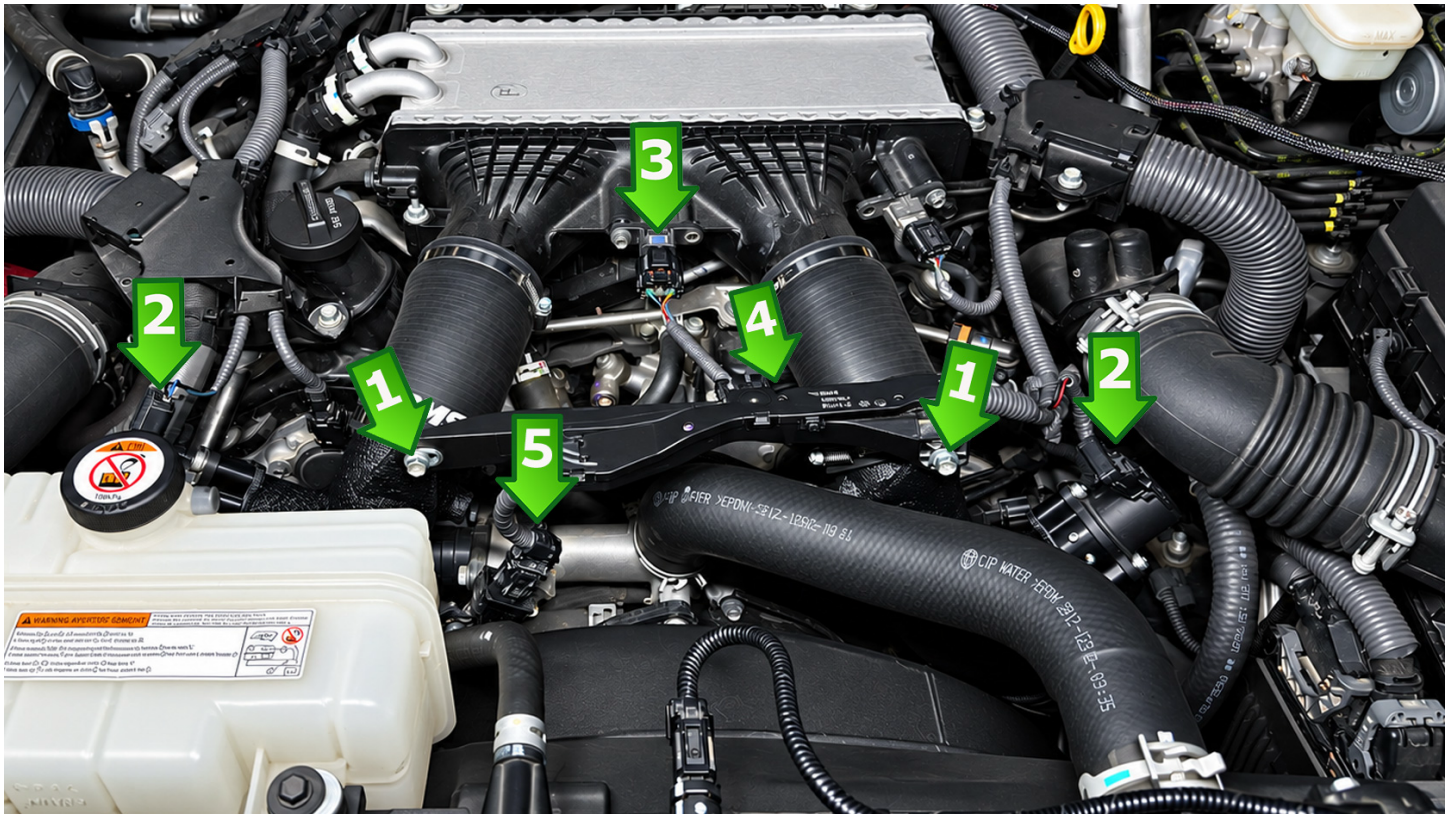
1. Attach the bracket bolts with a 10mm socket

2. Reconnect the left and right diverter valves.

3. Reconnect the MAP sensor on the heat exchanger.

4. Reconnect the camshaft position sensor connector located directly behind the driver's side charge pipe.

5. Reconnect the fan clutch connector.



Inspect all electrical connections and hose clamps to ensure they are properly connected and securely tightened. Tug on each charge pipe to verify that it is fully seated and securely fastened.

Installation complete!