INSTALLATION INSTRUCTIONS

Unitronic Throttle Body Elbow & Charge Pipe Upgrade Kit

UH037-ICA (OEM DV) / UH038-ICA (BOV)

Unitronic recommends that you read through the entire installation instructions prior to beginning the installation to familiarize yourself with the included components, tools required, and procedures involved with the installation.

DISCLAIMER: Unitronic recommends that a Unitronic Authorized Dealer or other qualified and trained professional should perform the installation of this product.

Unitronic Installation Instructions are also available in digital format, if you prefer. Please visit the corresponding product page for a link to download the digital Installation Instructions. www.getunitronic.com

It is recommended to confirm all parts are present prior to beginning the installation (view next page).

PACKING LIST:

Part Number	Description	Quantity
UH003-IC5	Cast Aluminum Throttle Body Elbow for 2.5TFSI EVO	1
UH004-IC5	Throttle Body Spacer	1
UH052-IC1	Throttle Body Coupler	1
UH053-IC1	Intercooler Outlet Coupler	1
UH018-IC2	Throttle Body Charge Pipe	1
UH017-IC0	Hardware Kit for 2.5TFSI Throttle Body Elbow Kit	1

If purchased with TIAL QRJ adapter (UH038-ICA):

Part Number	Description	Quantity
UH005-IC5	QRJ Inlet Adapter for 1.5" V-Band Flange	1

(continued on next page)

If purchased with OEM DV adapter, *for pairing with Unitronic's **4" Intake** the kit includes:*

Part Number	Description	Quantity
UH018-IC0	OEM DV Adapter for 2.5TFSI Throttle Body Elbow	1
UH054-IC1	DV Adapter Tube For 2.5TFSI Throttle Body Elbow	1

*If purchased with OEM DV adapter, for pairing with Unitronic's **5" Intake**, the kit includes:*

Part Number	Description	Quantity
UH018-IC0	OEM DV Adapter for 2.5TFSI Throttle Body Elbow	1
UH056-IC1	DV Adapter Tube For 2.5TFSI Throttle Body Elbow w/ 5" Uni Intake	1

For MY2019+ DAZ/DNW/DXH, UH039-ICA is required and includes:

Part Number	Description	Quantity
UH033-HW1	M12x1.5 Flanged HEX Drive Plug w/ Washer	1

RECOMMENDED TOOLS NEEDED:

- 3mm hex key
- 5 mm hex key
- T25 Torx
- T30 Torx
- T45 Torx
- Hose clamp pliers
- 7mm Socket
- 13mm Socket
- 17mm Socket
- 10mm Socket
- Ratchet

SUPPORTING HARDWARE:

- Unitronic Intercooler*

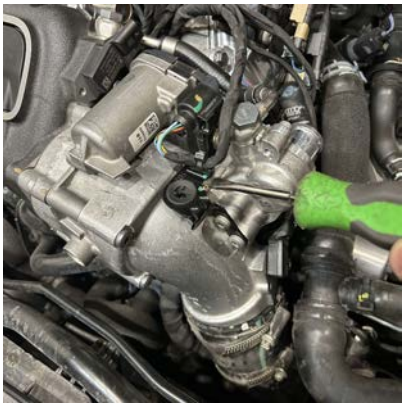
Stock Throttle Body Elbow System Removal

1. Start by opening the Engine Compartment, and then using your Vehicle Hoist or Floor Jack, raise the vehicle and secure it in place.

2. Remove the vehicle's current intake system according to the standard procedure. (Installation guides for Unitronic intakes can be found on their respective product pages at getunitronic.com).

3. Unplug and unclip the connectors from the plenum, throttle body, diverter valve and the MAP sensor from the throttle body elbow by pulling and pressing their release pins while pulling outwards gently to avoid breaking the connectors.



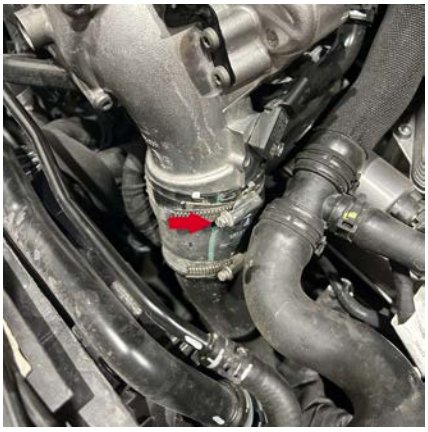





4. **For MY19+**: Using your 17mm socket, remove the banjo bolt found at the top of the throttle body elbow



5. Using your flat head screwdriver or 7 mm socket. Loosen the throttle body elbow coupler's top clamp.

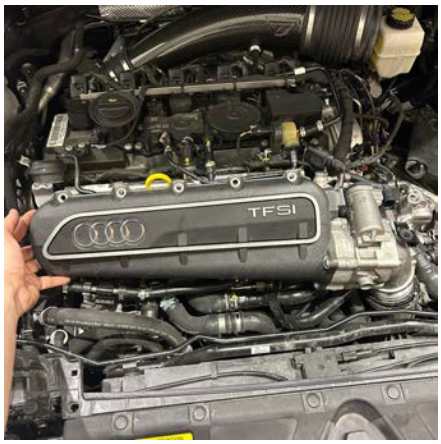


6. Using your 10mm socket, remove the **six** bolts holding the plenum and throttle body assembly.





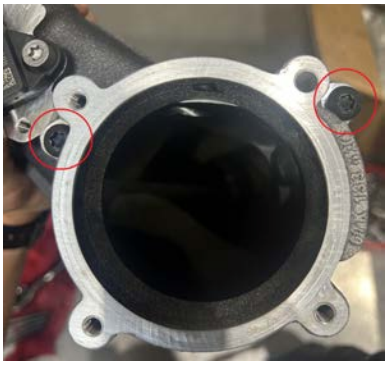
7. Remove the plenum and throttle body assembly from the vehicle by carefully lifting it upward until it detaches from the throttle body elbow coupler and intake manifold.



8. Using your T30, remove the seven (7) fasteners holding the OEM throttle body elbow, throttle body, spacer and intake manifold plenum. Separate all components.







9. From the OEM throttle body elbow, remove the diverter valve, MAP sensor and the engine cover grommet along with its bracket, and transfer the MAP sensor and engine cover grommet to the Unitronic Throttle Body Elbow (UH003-IC5).



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10. Use the provided M6x1 fastener (seen in the following figure) from UH017-IC0 to fasten the MAP sensor to the Unitronic Elbow.



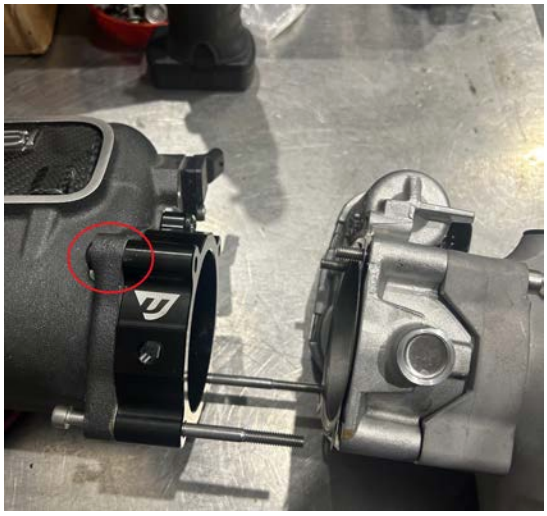

11. Find the 2mm x 80mm O-ring (the larger of the two included in the UH017-IC0 kit) and seat it inside the Unitronic Throttle Body Elbow (UH003-IC5), as illustrated below.



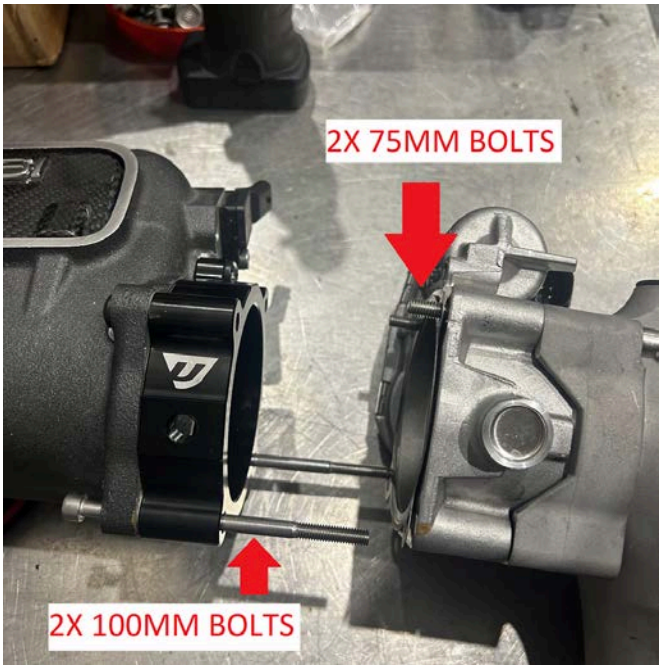
12. Install the OEM throttle body onto the Unitronic Throttle Body Elbow. Simply pushing the throttle body into the inlet is required. Silicone lubricant can be used on the O ring if it is difficult to press into the inlet.



13. Using the **3 OEM bolts and gasket that were removed in step 8,** fasten the Unitronic Throttle Body Spacer to the intake manifold plenum.

14. Mount the Unitronic Elbow and OEM throttle body assembly to the intake manifold plenum using the OEM gaskets. Secure the assembly using the provided hardware as follows (and as illustrated below):
    - **Top Two Holes:** Use the two 75mm bolts, routing them from the throttle body elbow into the intake manifold plenum.
    - **Bottom Two Holes:** Use the two 100mm bolts, routing them from the intake manifold plenum into the throttle body elbow

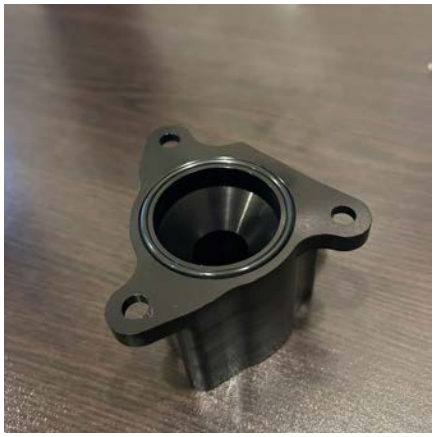


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15. Using your 5mm allen key. Install the two M10x1 plugs and washers into the Unitronic Throttle Body Spacer (UH004-IC5)



16. From the UH017-IC0 hardware kit, locate your **3x countersink screws** and your **2mm x 41mm O-ring.** Install the DV adapter, UH018-IC0 for OEM DV or UH005-IC5 for TIAL QRJ DV.





17. With your T25 and T45 Torx, move to the underside of the vehicle, and remove the belly pan by loosening the seven (7) T25 fasteners and the remaining three (3) T45 fasteners.

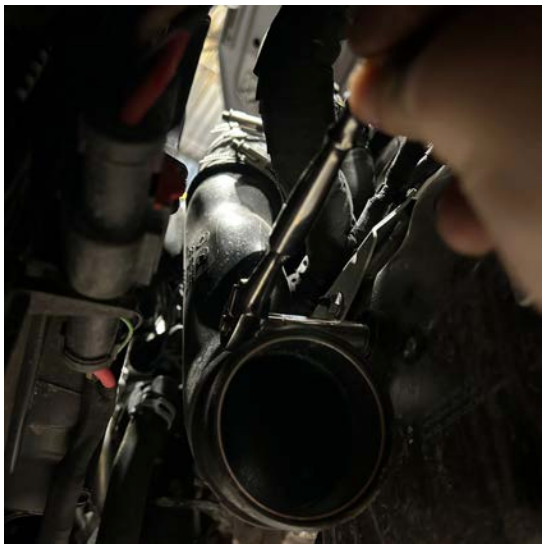


18. Using your 7mm socket or flat head screwdriver, loosen the hose clamps holding the intercooler outlet hose and remove it from the vehicle.





19. Using your 10mm socket, remove the 10mm fastener from the OEM intercooler outlet charge pipe bracket located on the right-hand side of the charge pipe.



20. Remove the OEM intercooler outlet charge pipe along with the throttle body coupler by pulling them through the underside of the vehicle.

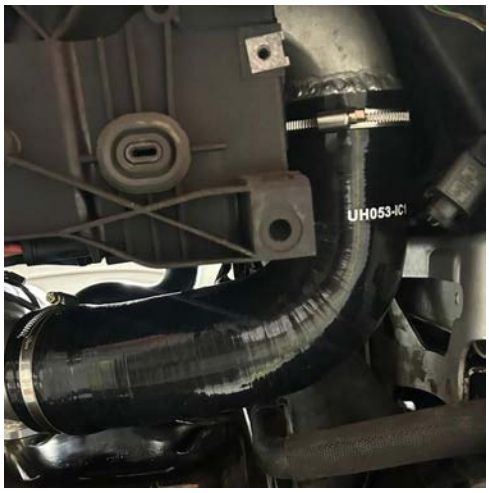
21. Locate and install your Unitronic Throttle Body Coupler (UH052-IC1) on your Unitronic Throttle Body Charge Pipe (UH018-IC2) keeping the **Unitronic logo aligned with the charge pipe logo**. With your flat head screwdriver or 7mm socket, tighten the lower clamp of the silicone hose.



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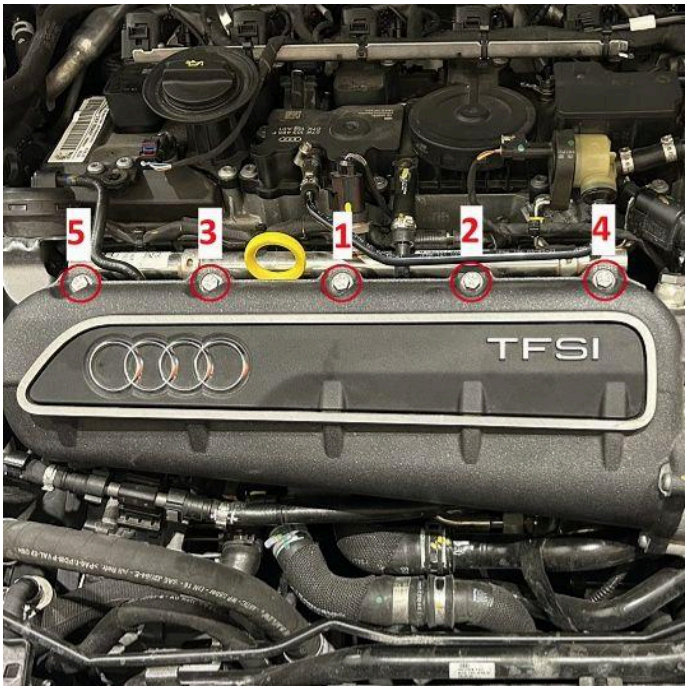
22. From the bottom of the vehicle, install the charge pipe and silicone assembly and use your 10mm socket and fastener that was removed in step 19 to secure the Unitronic IC Outlet Charge Pipe (UH018-IC2).

23. Locate and install the Unitronic Intercooler Outlet coupler (UH053-IC1) and clamps, and use your flat head screwdriver or 7mm socket to fasten the clamps.



24. Re-install the belly pan.

25. Moving back to the engine bay, install the plenum and throttle body assembly by fastening the six (6) 10mm bolts and the top hose clamp from the Unitronic Throttle Body Coupler. Starting from the center and alternating left-to-right outward, torque the top five bolts to **9Nm (6.64 ft-lb)**. Complete the following sequence three times in total.



26. Install the selected DV (OEM / TIAL) and reroute hose (if needed) according to the application (UH054-IC1 / UH056-IC1).







NOTE: The intake box tray must be removed entirely for UH056-IC1 installations to avoid interference. **(Question - If the client is using the carbon intake, what do we suggest)?**



NOTE: Remove the two T30 screws that hold the tray.

NOTE: For TIAL QRJ applications requiring more clearance, the intake box tray can be loosened and repositioned outward.





27. Reconnect all the disconnected connectors, tighten all hose clamps and re-install the air intake system.

28. For MY2019+ DAZ/DNW/DXH (UH039-ICA), install the provided copper washer as well as the M12 bolt on the intake manifold plenum using a 13 mm socket **(32Nm / 23.6 ft-lbs)**.



Congratulations! You've successfully installed the Unitronic Throttle Body Elbow System for 2.5TFSI.