



advanced FLOW engineering

Instruction Manual P/N: 46-20609-B

BladeRunner – Cold Side Charge Pipe Kit

Make: **Volkswagen**

Model: **GTI**

Year: **2022+**

Engine: **L4 – 2.0L(t)**

Make: **Audi**

Model: **A3**

Year: **2022+**

Engine: **L4 – 2.0L(t)**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

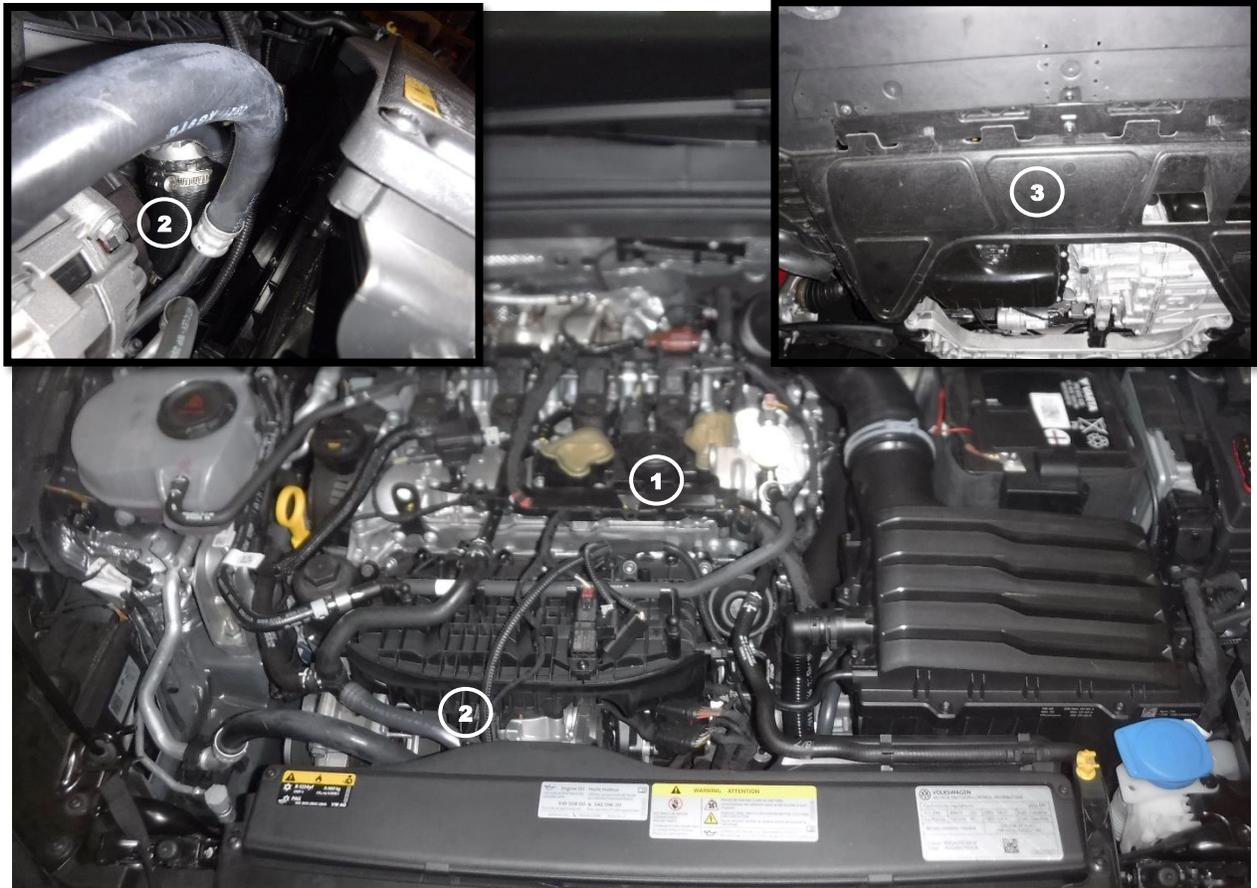
| Label | Qty. | Description | Part Number |
|-------|------|---|-------------|
| A | 1 | Tube, Cold Side | 05-61289B |
| B | 1 | Coupling, Silicone Elbow Rdr: (2.75"x2.5") 34 Deg | 05-61091 |
| C | 1 | Coupling, Silicone Elbow Rdr: (2.75"x2.38") 115 Deg | 05-61092 |
| D | 1 | Clamp, Spring Loaded T-Bolt: 2.5" | 03-50560 |
| E | 1 | Clamp, Spring Loaded T-Bolt: 2.85" | 05-60039 |
| F | 2 | Clamp, Spring Loaded T-Bolt: 3.00" | 05-60435 |
| G | 1 | Screw, M6x1.0x12 | 03-50102 |
| H | 1 | Washer, M6 | 03-50177 |
| J | 1 | Plug, 1/8" NPT | 03-50029 |

Installation will require the following tools:

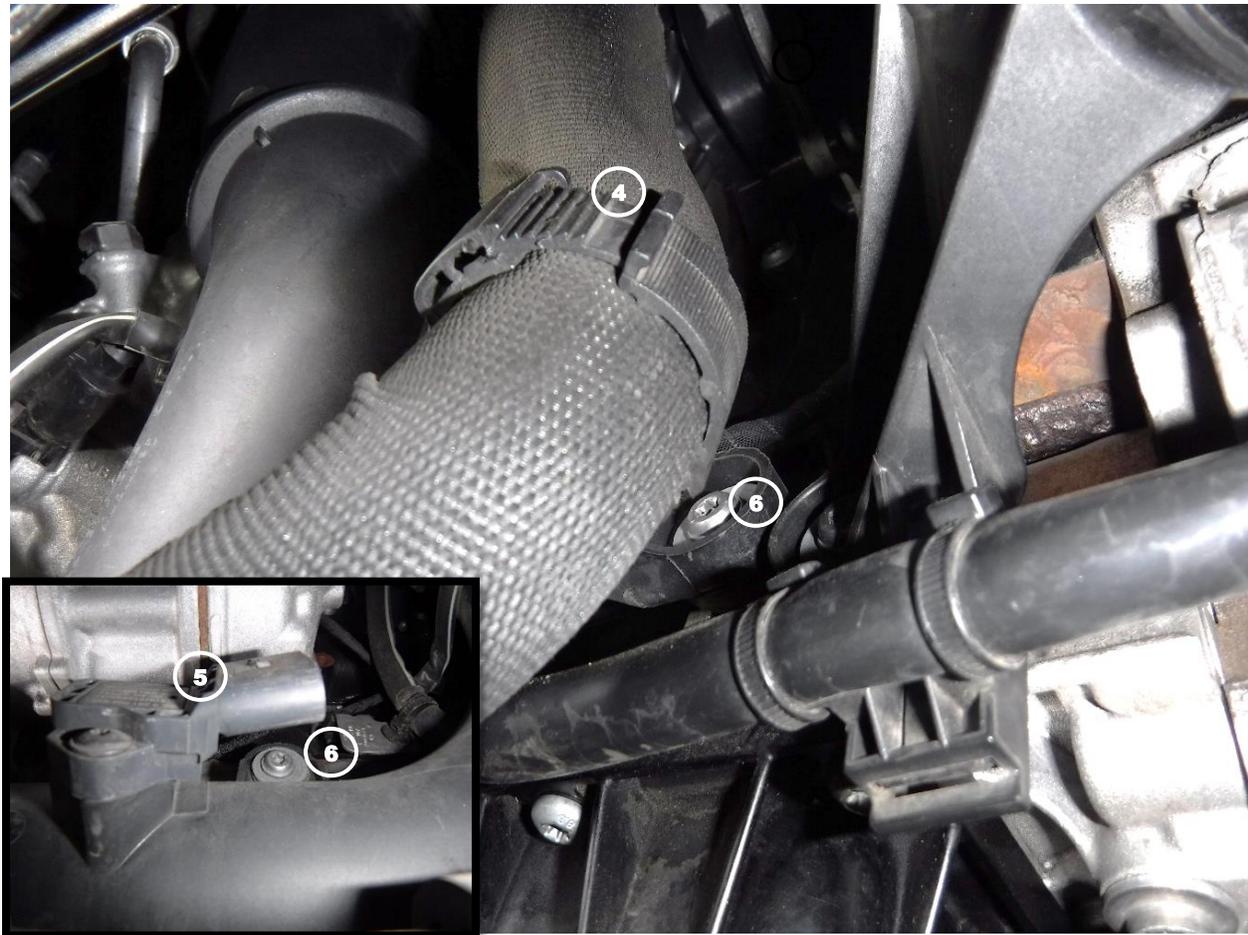
T20 socket, T25 socket, T30 socket, 7/16" deep socket, 5mm allen wrench, ratchet, pick, flat head screwdriver, thread sealant, grease

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations





1. Park vehicle on level ground and engage the parking brake.
2. Disconnect the negative battery cable.
3. Remove the engine cover (1) by lifting straight up on it from all four (4) corners if equipped.
4. Loosen the clamp securing the factory cold side charge pipe to the throttle body (2)
5. Underneath the vehicle, remove the screws securing the plastic splash guard onto the vehicle (3) then remove it.



6. Unclip the radiator hose from the cold side charge pipe (4)
7. Disconnect the electrical connection for the Manifold Absolute Pressure sensor (MAP) (5)
8. Remove the two screws securing the cold side charge pipe to the engine (6)
9. Loosen the clamp securing the cold side charge pipe coupling to the intercooler.
10. Remove the cold side charge pipe with couplings from the vehicle.

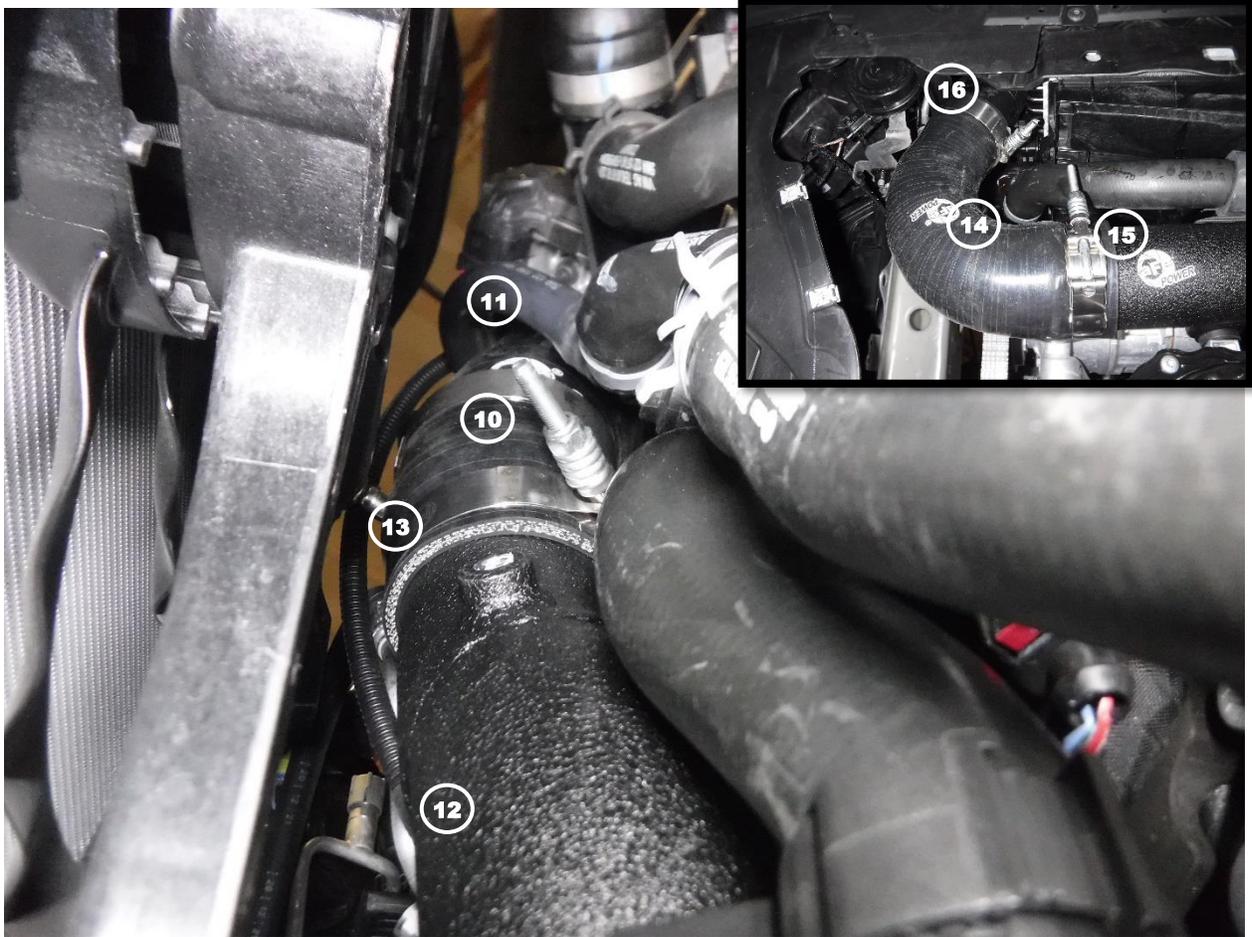


Note: Be sure to use thread sealant on the plug or sensor to prevent any leaking

11. If you are not using any aftermarket sensors, install the supplied 1/8" NPT plug (7) into the threaded fitting on the aFe cold side charge pipe.
12. Remove the MAP sensor from the factory cold side charge pipe (8)

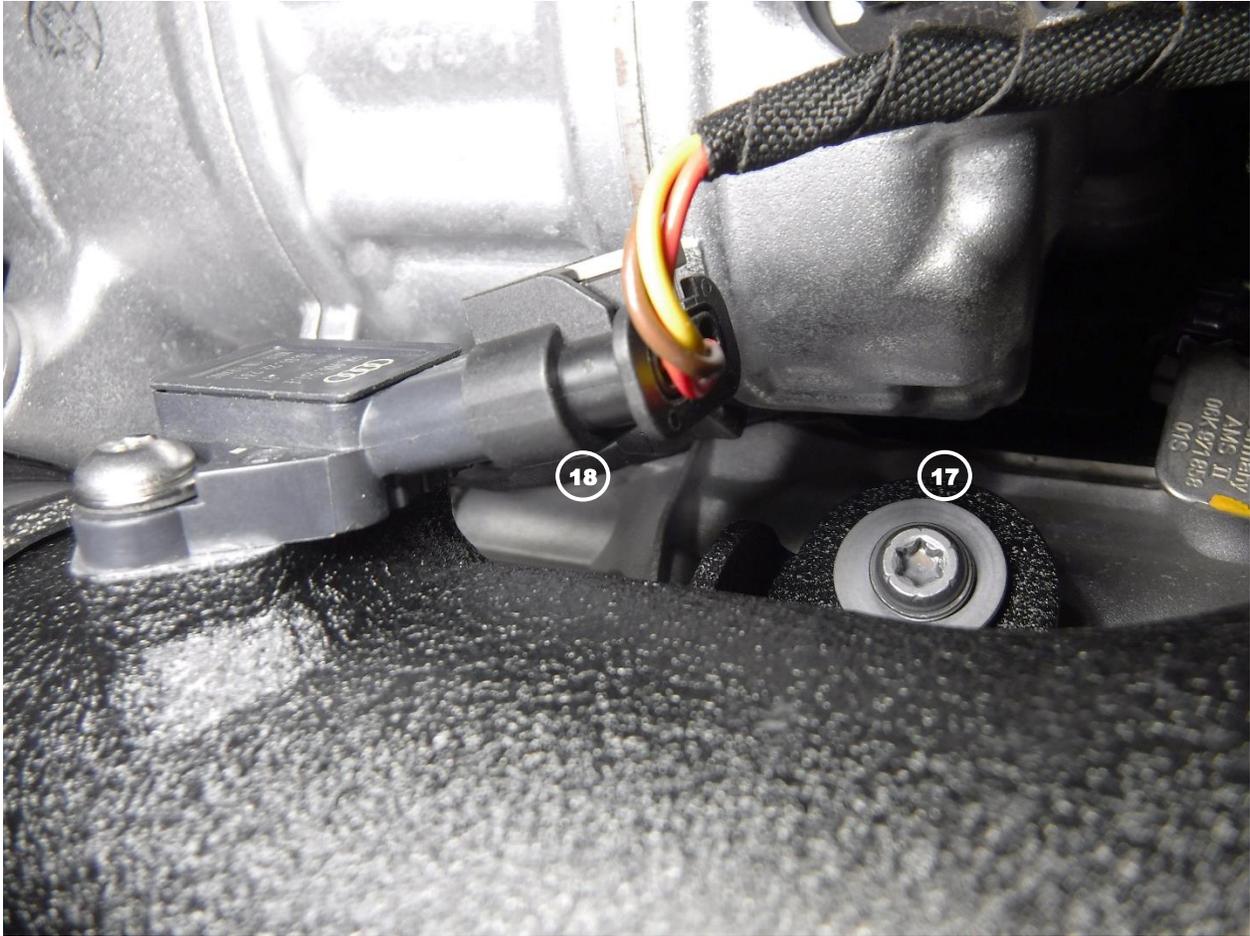
Note: Be sure to lubricate the O-ring with grease to prevent it from tearing during installation.

13. Install the MAP sensor, from the previous step onto the aFe cold side charge pipe.
14. Secure the MAP sensor using the supplied M6x1.0x12mm screw and washer.
15. Transfer one of the mounting grommets and screws (9) from of the factory cold side charge pipe onto the aFe charge pipe, be sure to install it in the same orientation as they were removed.



Note: Be sure to thoroughly clean all oil residue off of the connections before installing any of the aFe couplings onto the vehicle

16. Install the aFe silicone elbow reducer coupling, 2.75"x2.50" 34 Deg, (10) and the supplied 2.85" spring-loaded t-bolt clamp (11) onto the throttle body of the engine, do not tighten the clamp yet.
17. Install the aFe cold side charge pipe (12) and one of the supplied 3.00" spring-loaded t-bolt clamps (13) onto the coupling from the previous step, do not tighten the clamp yet.
18. Install the aFe silicone elbow reducer coupling, 2.75"x2.38" 115 Deg, (14) and the remaining 3.00" spring-loaded t-bolt clamp (15) onto the end of the pipe from the previous step, do not tighten the clamp yet.
19. Install the coupling from the previous step onto the intercooler along with the supplied 2.50" spring-loaded t-bolt clamp (16) do not tighten the clamp yet.



20. Ensure the aFe cold side charge pipe is not touching anything metal.

21. Secure aFe cold side charge pipe to the engine using the factory hardware (17)

22. Tighten all of the clamps.

23. Reconnect the electrical connection for the MAP sensor (18)



24. Reinstall the engine cover (19) onto the vehicle if equipped.

25. Reconnect the negative battery cable.

26. Install is now complete.

Note: Be sure to check all connections after 50-100 miles.

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