AWE TUNING

PERFORMANCE ENGINEERING FOR GERMAN AUTOS

INSTALLATION GUIDE

2010+ Audi 3.0T
ColdFront High Flow Pump

FOR RACING USE ONLY

Congratulations on your purchase of the AWE Tuning ColdFront High Flow Pump for the 2010+ Audi 3.0T.

Exquisite build quality with industry leading performance distinguishes this cooling pump kit from all others.

Contact us with any installation questions.

215-658-1670
AWE-Tuning.com
performance@AWE-Tuning.com

PARTS LIST

Parts List:

1 Pump
1 12AN Male to ¾ barb
1 12AN O-Ring to 12AN
1 9.5" ¾" Hose
1 Relay
1 Wire Harness
1 Mounting Bracket
1 #10 Locknut
1 #10 Washer
1 #10 Button Head Bolt
2 5/16 Socket Cap Bolt
2 5/16 Lock Washer
2 5/16 Flat Washer
2 Rubber Washer
1 Factory coolant hose **(2010-2012 only)**

Required Tools:

Small Flathead
T25 Torx
10mm Socket
10mm Wrench
1/8" Allen Key
3/16" Allen Key
¼" Allen Key
Vise Grips
Locking Adjustable Pliers
Large Adjustable Wrench
Loctite

Please note that the AWE Tuning ColdFront High Flow Pump can only be used with the AWE Tuning Cold-Front Reservoir, which is sold separately.

Step 1

Remove the wheel well liner, and plastic cover shown at the arrow in **Figure 1**.

Remove the cap from the AWE Tuning ColdFront Reservoir.

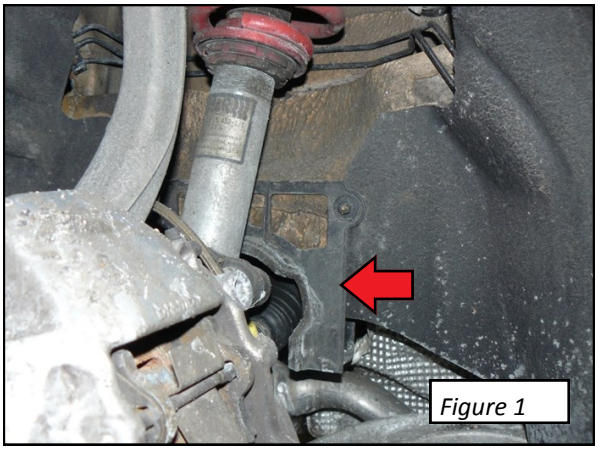

Figure 1

Step 2

Unclip the electrical connector from the factory pump. Slide the gray locking pin (at arrow in Figure 2) downward and push inward to release the connector.

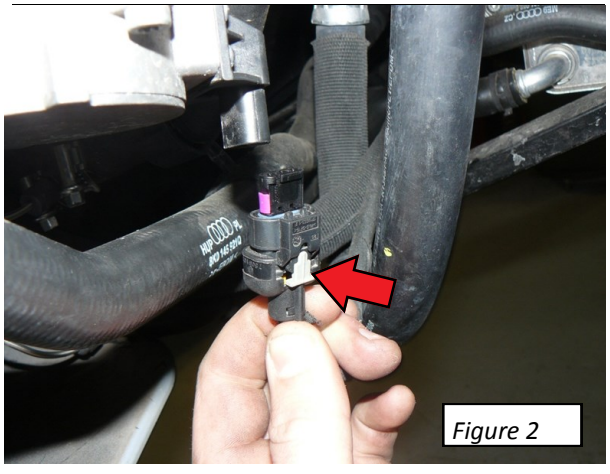

Figure 2

Step 3

Remove the three bolts holding the factory pump in place, at arrows in **Figures 3** and **4.**

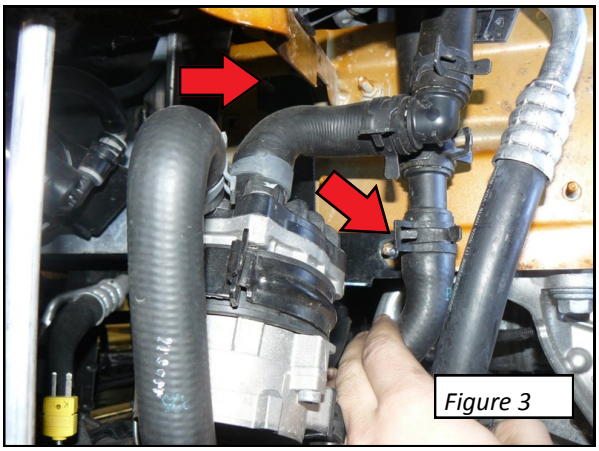
Figure 3

For 2010-2012 Cars: There is an additional heat exchanger that will need to be removed as shown in **Figure 5**. To do so, remove the 4 10mm bolts holding the pump and heat exchanger in place. Three of which are in the same position as shown in figures 3 & 4, the 4th bolt is behind the factory pump securing it to the heat exchanger bracket.

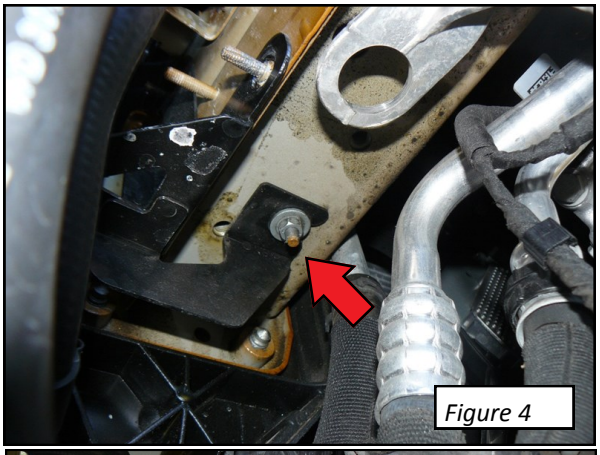
Figure 4

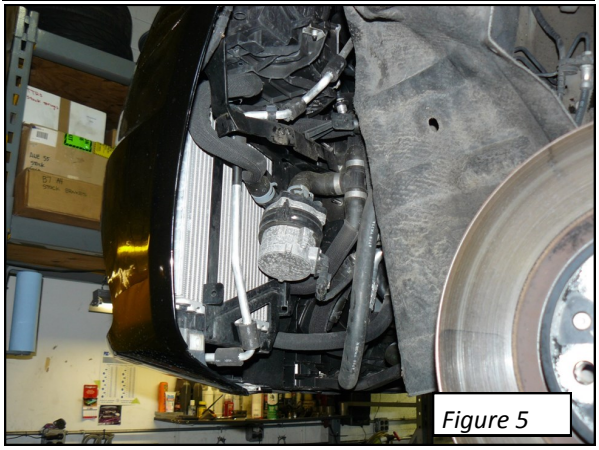
Figure 5

Step 4

To ensure minimal coolant loss when the hose is disconnected, clamp off the inlet as shown in **Figure 6**.

Slide the hose spring clamp up and remove the hose from the top of the plastic elbow at arrow **Figure 6**. Make sure to have a container below to catch the draining coolant.

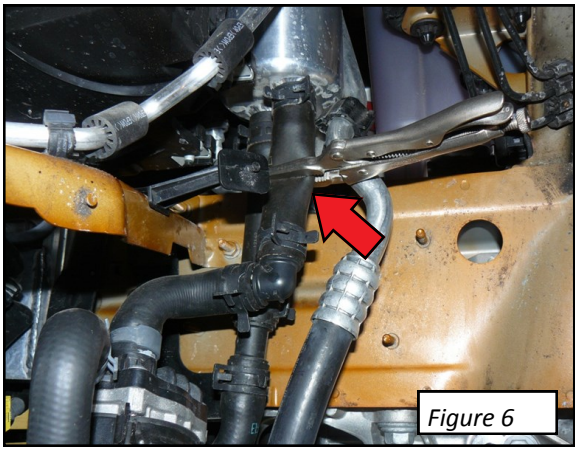
Figure 6

Step 5

Turn the pump upside down to properly drain it and remove the spring clamp from the outlet hose.

Fully remove the pump and remove the clamp to drain the reservoir.

For 2010-2012 Cars: Completely remove the auxiliary heat exchanger and coolant pump. From under the car remove the auxiliary coolant hose at the red arrow below and install the supplied factory coolant hose in its place using the factory spring clamp. **Figure 8**

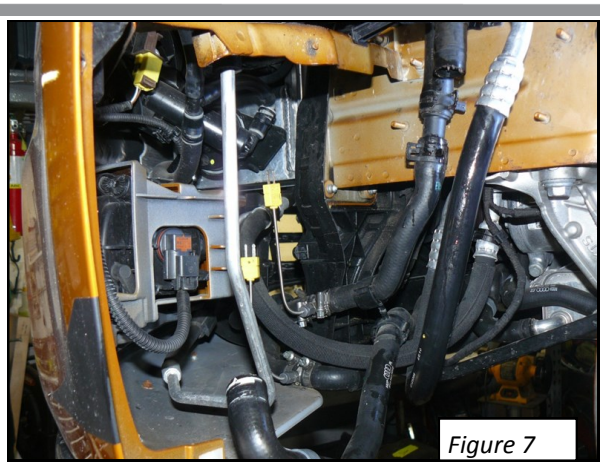

Figure 7

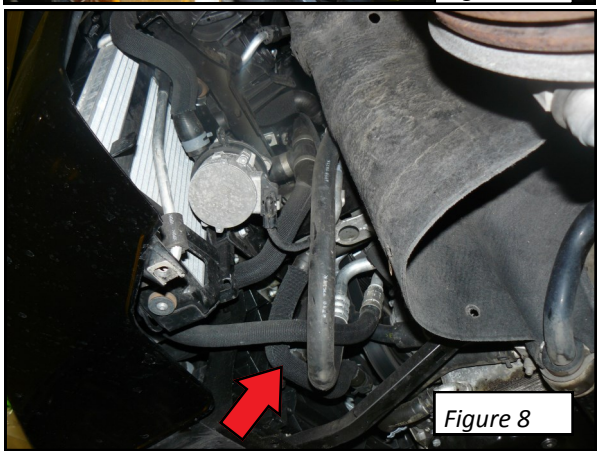

Figure 8

Step 6

Mount the relay to the AWE Tuning pump bracket using the button head bolts, washers and lock nuts, as shown in **Figure 9 and 10**. Place the supplied rubber washers between the pump and the bracket. Mount the pump to the bracket using the supplied 5/16” bolts, washers and lock washers.

Tighten the supplied blue AN fittings onto the pump as shown in **Figure 9**. Use an adjustable wrench to get them snug, but do not over tighten.

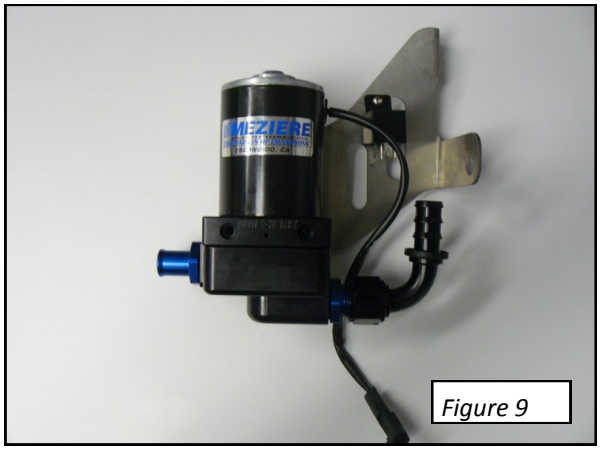

Figure 9

Thread the supplied black elbow on by hand, at arrow in **Figure 10**, and leave loose for now.

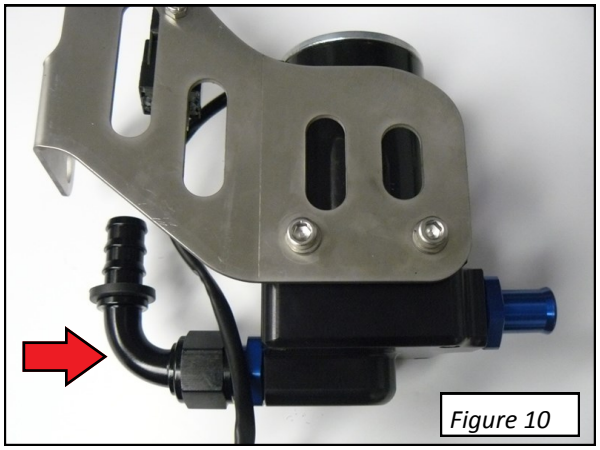

Figure 10

Step 7

Mount the new pump using the same two studs as the factory pump. Apply blue Loctite to the factory studs and reuse the factory nuts to secure the pump.

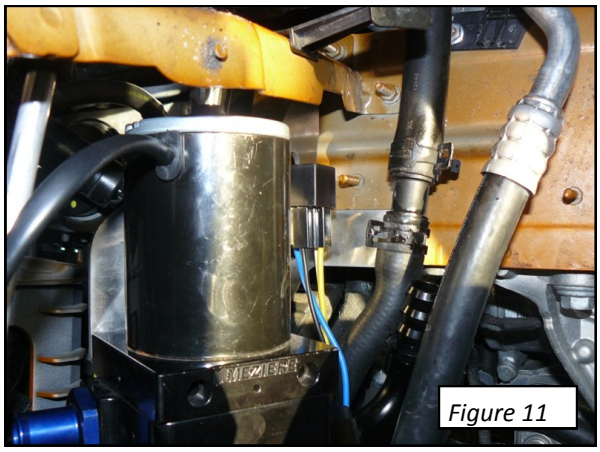

Figure 11

Step 8

Transfer the factory spring clamp to the supplied 3/4 diameter hose and slide that end of the hose onto the reservoir fitting. Place the spring clamp properly into position.

Then slide the other end onto the barbed side of the black elbow coming off the pump, at arrow in **Figure 12**. Lubricating the inside of the hose will make this process easier. Ensure that the hose is fully seated in the collar that is on the black elbow. A clamp is not needed at this fitting.

Fully tighten the black elbow onto the pump at this point.


Figure 12

Step 9

Slide the outlet hose over the blue fitting on the pump, as shown in **Figure 13**. Secure it with the factory spring clamp.

For 2010-2012 Cars: This hose was previously installed in Step 5.

ATTENTION:
At this time, make sure to not attach any of the electrical connectors to the pump yet. Running the pump without coolant will cause damage to the pump internals.

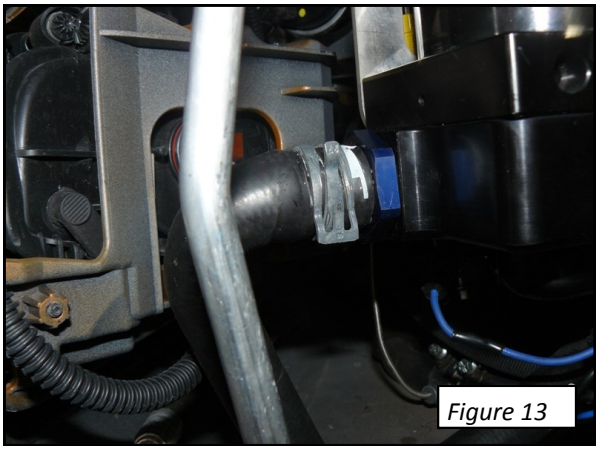
Figure 13

Step 10

Route the long wire coming from the relay as shown at arrows in **Figure 14** and **15**.

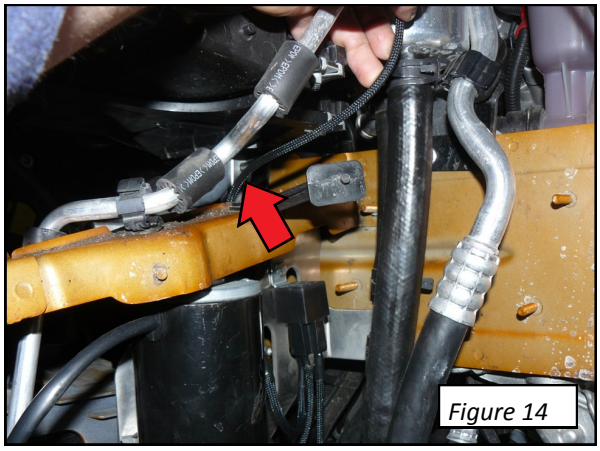

Figure 14

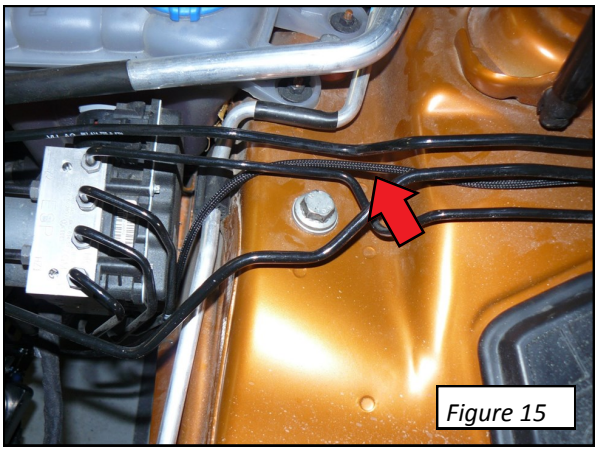

Figure 15

Step 11

Remove the rain tray running in front of the windshield to get access to the positive terminal block. To remove, there are two black fasteners which can be undone with a flathead screwdriver, at arrows in **Figures 16** and **17**.

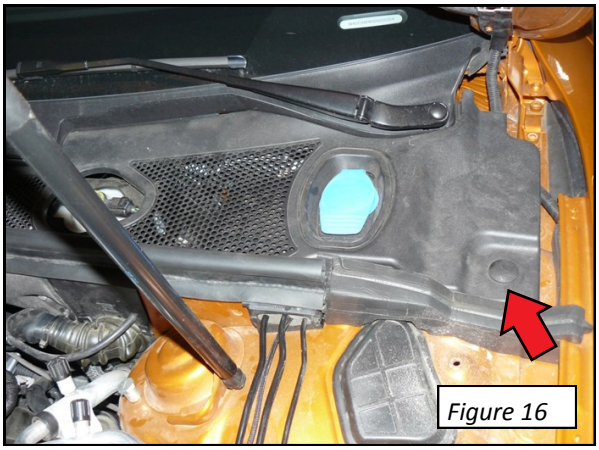

Figure 16

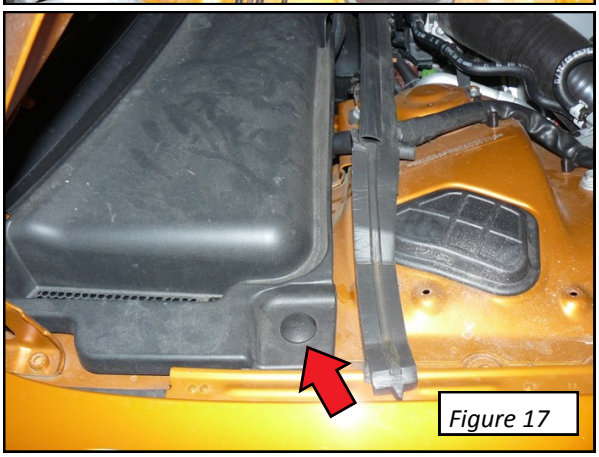

Figure 17

Step 12

Fish the end of the wire that has the ring terminal attached to it through the foam block as shown at arrow in **Figure 18**.

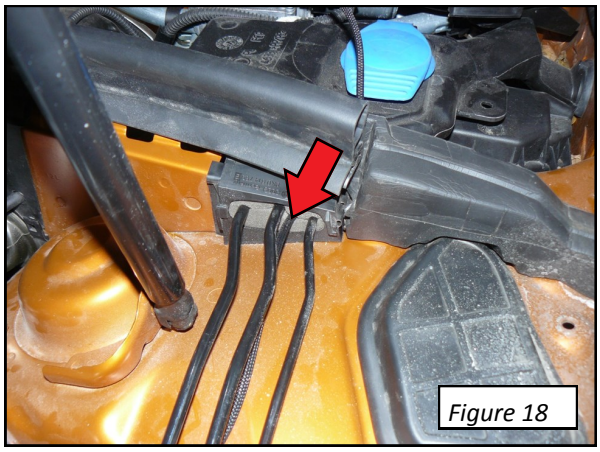

Figure 18

Step 13

Remove the lid to the terminal block in front of the windshield and attach the ring terminal as shown in **Figure 19**.

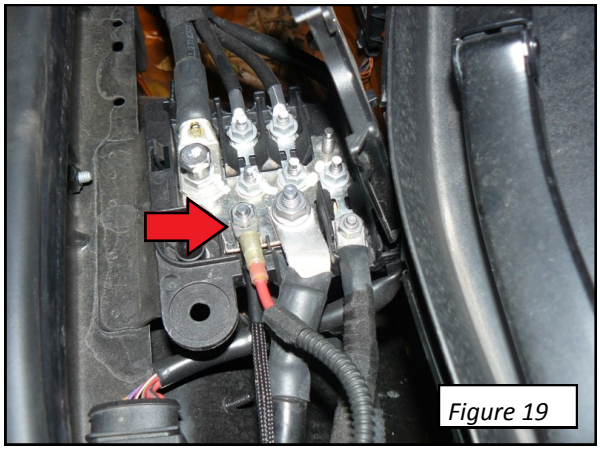

Figure 19

Step 14

Double check and make sure all of the fittings on the pump are tight. Fill the reservoir with factory engine coolant to about two inches from its top. Inspect and make sure there are no leaks.

Bleed the pump by slowly loosening the green allen bolton the back side of the pump, at arrow in **Figure 20**, and letting coolant drain until all the air bubbles are gone. Then re-tighten the green bolt.

Top the reservoir off with coolant.

Figure 20

Step 15

Re-attach all of the electrical connectors that had been previously unplugged and ziptie the pump connector wire as shown at arrow in **Figure 21**.

To trigger the pump, open the driver side door. Make sure the pump switches on and that coolant is flowing through the reservoir. Check for any leaks while the pump is functioning.

Reinstall the wheel well liner and driver side wheel.

Apply a small amount of anti-seize paste to the reservoir cap threads and re-install.

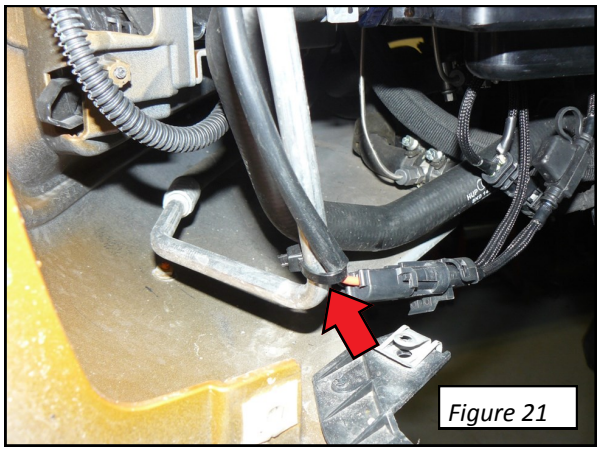

Figure 21

ENJOY

Check the coolant level regularly for the first week of driving to ensure no air is left in the system and fluid level has stabilized.

Please note that with the stock coolant pump removed from the car, a fault code will be logged in the ECU, but no Check Engine Light will illuminate.

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Any questions or comments,
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Thank you for choosing AWE Tuning as your performance automotive parts supplier. Please remember that a performance car is only as strong as its weakest link. Therefore, it is vital that you maintain your vehicle to factory specifications.

By installing or using the purchased product, the Consumer accepts this warranty and any specific Manufacturer warranties enclosed.

Limited Defect Warranty

The following warranty is valid only in the United States.

The Manufacturer's full warranty applies to all products sold.

Secor Ltd. (AWE Tuning) warrants to the original retail purchaser (Consumer) this product (Audi 3.0T Cold-Front High Flow Pump) against manufacturing defects for ONE YEAR.

Upon verification of warranty coverage, AWE Tuning will repair or replace the defective product at their discretion, without charge. This is the only remedy the Consumer has for any loss or damage, however arising, due to nonconformity in or defect of the product. This warranty does not cover consequential damage, loss of time or revenues, inconvenience, loss of use of vehicle, shipping costs, installation labor costs, damage to the vehicle or components, or other incidental or indirect damage.

All warranties are void if the product was not installed by a certified auto mechanic, improperly serviced, modified, or used in a way not intended by the Manufacturer. Use of product in Motorsports or Racing conditions is grounds for warranty denial. Motorsports and Racing is an inherently abusive operational condition, and it is impossible to warranty for this type of usage.

The Consumer is responsible for ensuring that the product is installed in a safe and proper manner, and should cease usage of the product immediately if an unsafe or improper condition is noted. If an unsafe or improper condition is noted, the Consumer should then immediately contact the facility where the product was installed or AWE Tuning directly.

Please contact the original place of purchase for any warranty claims or explanations of this document.