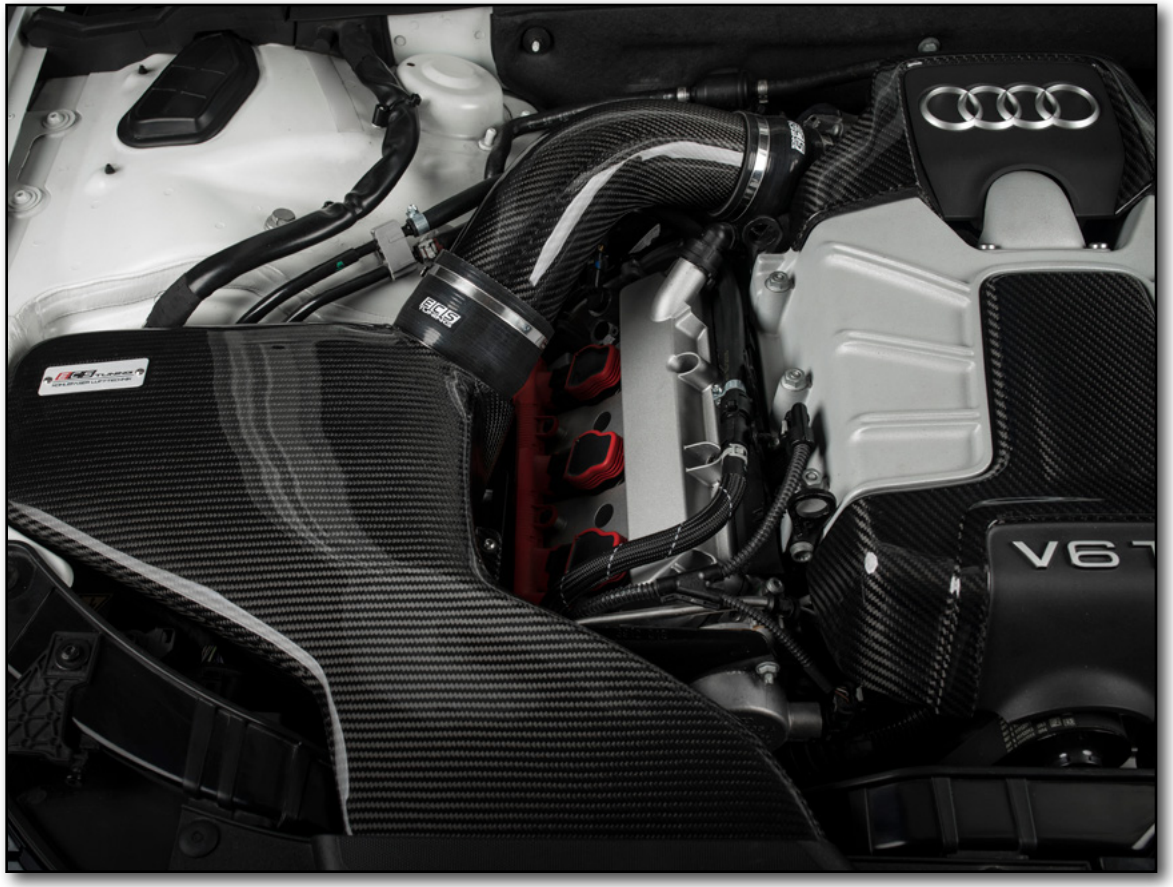
Audi B8 3.0T
Fuel Line Relocation Kit
Installation Instrucions



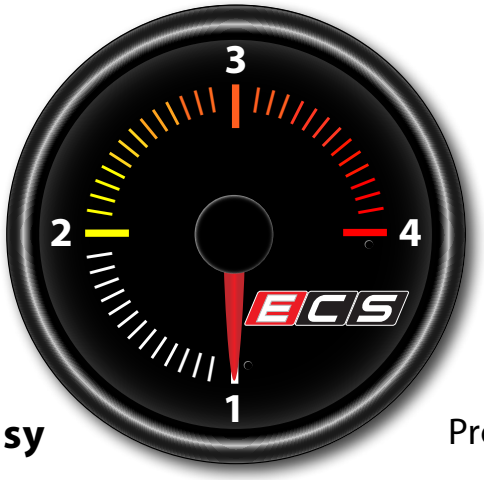
Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

INTRODUCTION

You spoke...

... and we listened! We received your feedback and concerns regarding the stock fuel line which sits on top of the intake pipe on B8 chassis 3.0T vehicles. We have come up with a solution which is both easy to install **AND** will provide a serious aesthetics upgrade to your engine bay. The Fuel Line Relocation Kit completely replaces the OEM fuel hose (part #: 8K0 201 215AK) with a section of heat shrink protected fuel hose, allowing you to re-route the fuel line underneath the intake pipe and alongside the valve cover. The end result is a much cleaner looking engine bay, and an unrestricted view of that gorgeous ECS Intake System. If you don't have a lot of "wrench time" under your belt, rest assured because we are going to walk you through the installation step by step, and once you're done you'll be able to just sit back and admire your work.

ECS Difficulty Gauge



1 - Easy

2 - Moderate

Advanced - 3

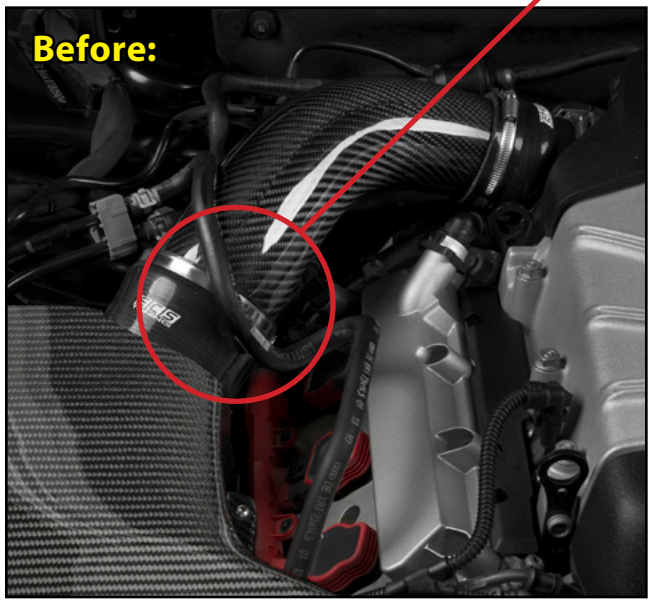
Pro - 4

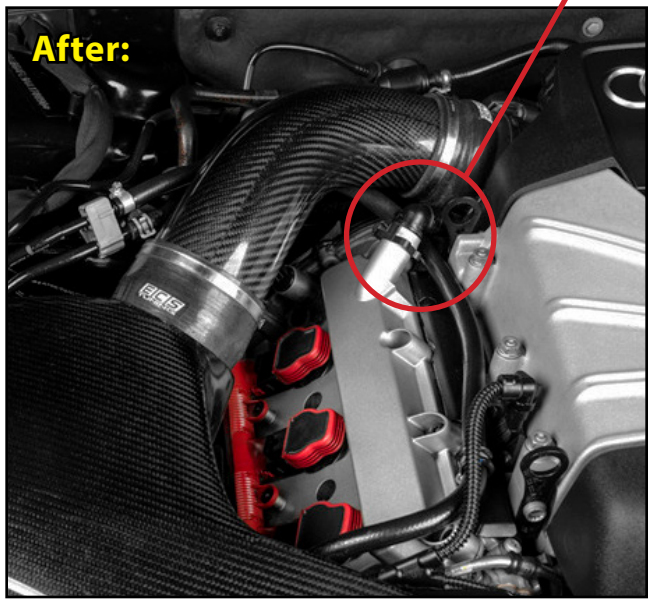
Take your time and enjoy the project, it'll only take you an hour or so to finish. Read these instructions completely first, and with the project overview under your belt, you'll breeze right through it. Just to make sure you have everything you need, reference the required tool list on Page 5 before you begin. Thank you for looking to ECS Tuning for all your performance and repair needs, we appreciate your business!

TABLE OF CONTENTS

PROJECT OVERVIEW

The factory fuel line was designed to be routed on top of the factory intake pipe, and there were small retainers built into the pipe which secured the fuel line into place. When one of our ECS Intakes is installed onto your vehicle, the factory fuel line crosses over the intake pipe and interferes with the smooth lines of the system. The fuel line in our Fuel Line Relocation Kit is longer than the factory fuel line, and this additional length will allow you to route it around the intake pipe and out of sight. Please reference the photos on the right for a before and after comparison.





KIT CONTENTS

Fuel Line Relocation Kit - Facelift (ES3102572)
QTY 1: Fuel Line (18.5" in length)
QTY 2: 11-13.3mm Mini Screw Style Clamp

Fuel Line Relocation Kit - Pre-Facelift (ES3102573)
QTY 1: Fuel Line (30.5" in length)
QTY 2: 11-13.3mm Mini Screw Style Clamp
QTY 1: Vibration Damping Clamp
QTY 1: M5x16mm Standoff

REQUIRED TOOLS

Note: The tools required for each step will be listed by the step number throughout these instructions.

Standard Automotive Tools

Required For This Install

Available On Our Website

- Protecta-Sockets (for lug nuts) ..... ES#2221243
- 3/8" Drive Ratchet ..... ES#2765902
- 3/8" Drive Torque Wrench ..... ES#2221245
- 3/8" Drive Deep and Shallow Sockets ..... ES#2763772
- 3/8" Drive Extensions ..... ES#2804822
- Hydraulic Floor Jack ..... ES#240941
- **Torx Drivers and Sockets** ..... ES#11417/8
- 1/2" Drive Deep and Shallow Sockets ..... ES#2839106
- 1/2" Drive Ratchet
- 1/2" Drive Extensions
- 1/2" Drive Torque Wrench ..... ES#2221244
- 1/2" Drive Breaker Bar ..... ES#2776653
- Bench Mounted Vise
- Crows Foot Wrenches
- Hook and Pick Tool Set ..... ES#2778980
- **1/4" Drive Ratchet** ..... ES#2823235
- **1/4" Drive Deep and Shallow Sockets** ..... ES#2823235
- 1/4" Drive Extensions ..... ES#2823235
- **Plier and Cutter Set** ..... ES#2804496
- **Flat and Phillips Screwdrivers** ..... ES#2225921
- Jack Stands ..... ES#2763355
- Ball Pein Hammers
- Pry Bar Set ..... ES#1899378
- Electric/Cordless Drill
- Wire Strippers/Crimpers
- **Razor Blade**
- Punch and Chisel Set
- Hex Bit (Allen) Wrenches and Sockets ..... ES#11420
- Thread Repair Tools ..... ES#1306824
- Open/Boxed End Wrench Set ..... ES#2765907

SHOP SUPPLIES AND MATERIALS

Standard Shop Supply Recommendations: We recommend that you have a standard inventory of automotive shop supplies before beginning this or any automotive repair procedure. The following list outlines the basic shop supplies that we like to keep on hand. Shop supplies with a hyperlink are available on our website.

- Hand Cleaner/Degreaser - Click Here
- Pig Mats - for protecting your garage floor and work area from spills and stains - Click Here
- Spray detailer - for rapid cleaning of anything that comes into contact with your paint such as brake fluid - Click Here
- Micro Fiber Towels - for cleaning the paint on your car - Click Here
- Latex Gloves - for the extra oily and dirty jobs - Click Here
- Medium and High Strength Loctite Thread lock compound - to prevent bolts from backing out - Click Here
- Anti-Seize Compound - to prevent seizing, galling, and corrosion of fasteners - Click Here
- Aerosol Brake/Parts Cleaner - for cleaning and degreasing parts
- Shop Rags - used for wiping hands, tools, and parts
- Penetrating oil - for helping to free rusted or stuck bolts and nuts
- Mechanics wire - for securing components out of the way
- Silicone spray lube - for rubber components such as exhaust hangers
- Paint Marker - for marking installation positions or bolts during a torquing sequence
- Plastic Wire Ties/Zip Ties - for routing and securing wiring harnesses or vacuum hoses
- Electrical tape - for wrapping wiring harnesses or temporary securing of small components

INSTALLATION NOTES

- **RH** refers to the ***passenger side*** of the vehicle.
- **LH** refers to the ***driver side*** of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

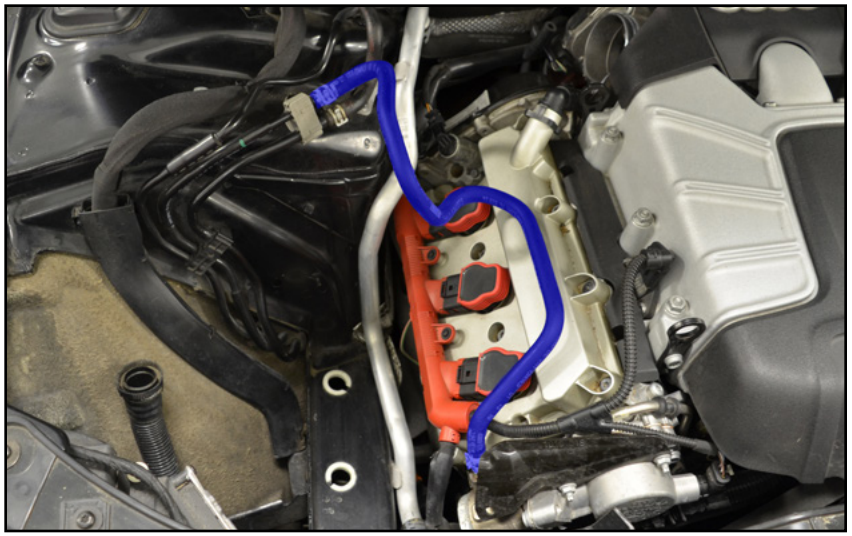
GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety. Please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- If using an automotive lift, be sure and utilize the factory specified lift points. Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- When lifting a vehicle using a jack, always utilize the factory specified lift points. Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear. **ALWAYS** support the vehicle with jack stands.
- Always read and follow all safety information and warnings for the equipment you are using.

NEVER get underneath a vehicle that is supported only by a jack, and ALWAYS make sure that the vehicle is securely supported on jack stands.

REMOVING THE ORIGINAL FUEL LINE



If you have a Pre-Facelift (-2012) Audi B8 3.0T, please skip to Page 9.

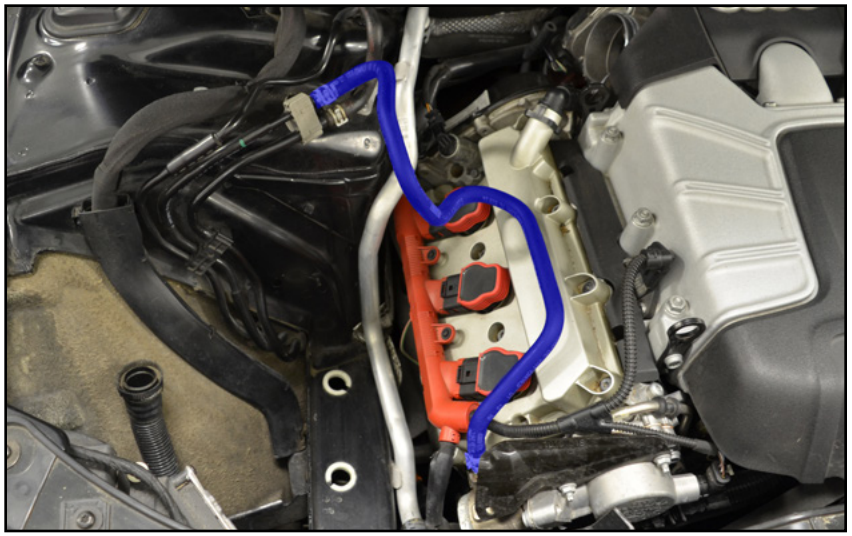
If you have a Facelift (2013+) Audi B8 3.0T, please skip to Page 16.

REMOVING THE ORIGINAL FUEL LINE (PRE-FACELIFT)

Step 1:

For the purpose of this install, we are going to assume that the stock intake system has been removed from the vehicle before we begin. This way we can provide the clearest possible photos of the stock fuel line.

The original fuel line is highlighted in **BLUE** in the photo on the right, our goal today is to remove that line and replace it with our Fuel Line Relocation Kit, which will run behind the intake pipe and the breather tube for a cleaner overall install.



Step 2: Pliers

To begin, we need to release the clamp which holds the fuel line to the hard line mounted on the RH shock tower, but **DO NOT** remove the fuel line at this time. Place a rag/towel **BEHIND** and **AROUND** the fuel line to catch any fuel which is able to spray out.

CAUTION: Even though we are working on the low pressure side of the fuel system, there is still a **LOT** of fuel which can spray out during these steps. Work slowly, wear eye protection, and **ALWAYS** keep the rag/towel between you and the fuel line.

REMOVING THE ORIGINAL FUEL LINE (PRE-FACELIFT)

Step 3:

To remove the fuel line you'll need to wrap the rag/towel around the line to catch any spraying fuel while you twist and pull the fuel line off of the hard line as shown on the right.

CAUTION: Even though we are working on the low pressure side of the fuel system, there is still a **LOT** of fuel which can spray out during these steps. Work slowly, wear eye protection, and **ALWAYS** keep the rag/towel between you and the fuel line.

Step 4: Pliers

Next, we need to release the clamp which holds the fuel line to the high pressure fuel pump. Simply squeeze the clamp and slide it back on the hose.

REMOVING THE ORIGINAL FUEL LINE (PRE-FACELIFT)

Step 5:

To remove the fuel line from the pump you'll need to wrap the rag/towel around the line to catch any remaining fuel while you twist and pull the fuel line off as shown on the right.

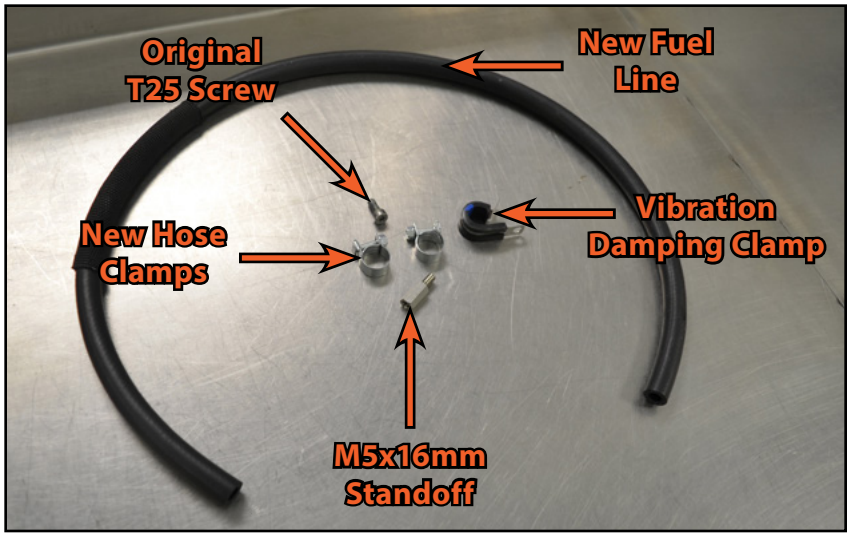
Step 6: T25 Torx

Remove the mounting screw located between the valve cover and the supercharger (shown in the photo).

INSTALLING THE NEW FUEL LINE (PRE-FACELIFT)

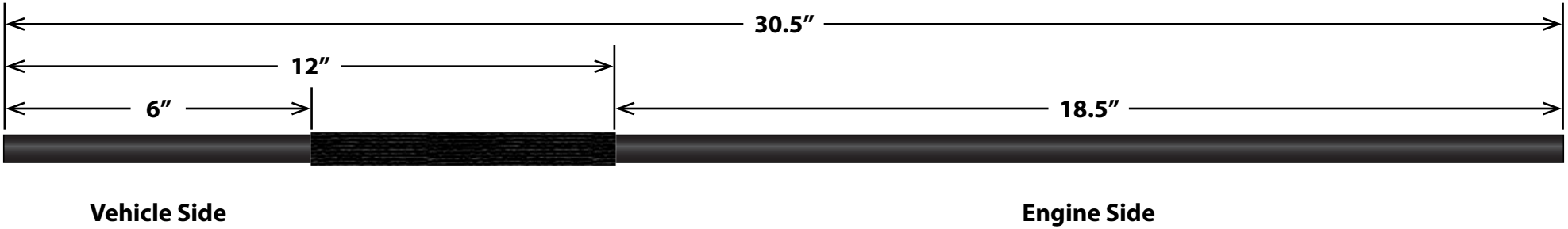
Step 1:

Now we're ready to begin assembling and installing the new fuel line. Reference the photo on the right and the illustration below to identify individual components. It is also helpful to identify both ends of the fuel line, the "Engine Side" will be installed into the quick disconenct fitting on top of the engine, and the "Vehicle Side" will be installed onto the hard line located on the RH shock tower.



NOTE

The measurements shown in the illustration below are **APPROXIMATE**, the protective heat shrink is not 100% predictable when it is applied to the fuel line. The important thing here is to ensure that the longer end of the fuel line is the "Engine Side", and the shorter end is the "Vehicle Side".



INSTALLING THE NEW FUEL LINE (PRE-FACELIFT)

Step 2: 8mm Socket & Ratchet

Install the M5x16mm Standoff in place of the T25 screw, then tighten it until it is snug.

Step 3: Flat Blade Screwdriver - **OR** - 7mm Socket & Ratchet

Slide one of the new hose clamps over the “Engine Side” of the fuel line, then slide the line onto the fuel pump and tighten the clamp.

CAUTION: Make sure the clamp is tightened so that the hose will not twist or pop off. If the clamp is not fully tightened it may leak fuel which can be ignited by nearby hot engine components.

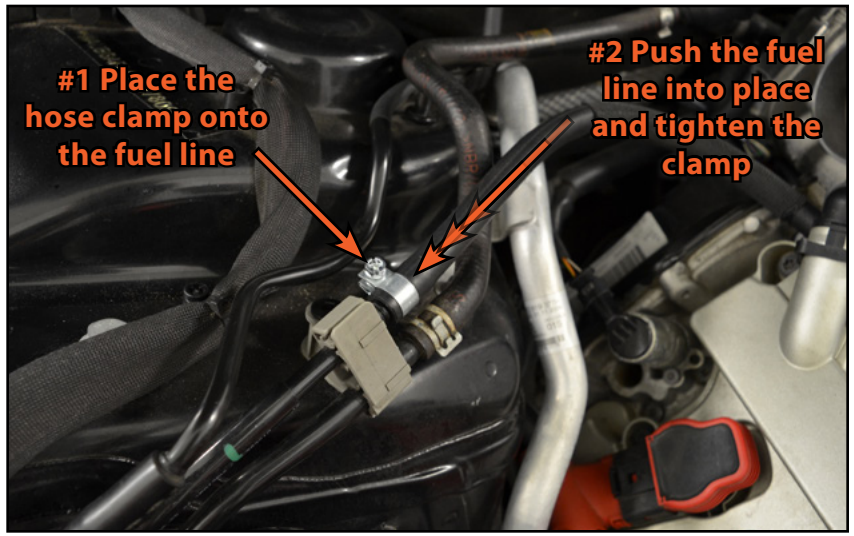
INSTALLING THE NEW FUEL LINE (PRE-FACELIFT)

Step 4:

Slide the new fuel line under the breather tube on the RH valve cover (YELLOW circle in the photo), ensuring that the "Vehicle Side" of the fuel line is routed all the way to the hard line on the RH shock tower.

Step 5: Flat Blade Screwdriver - **OR** - 7mm Socket & Ratchet

Slide the other new hose clamp over the fuel line, then slide the line into place and tighten the clamp.

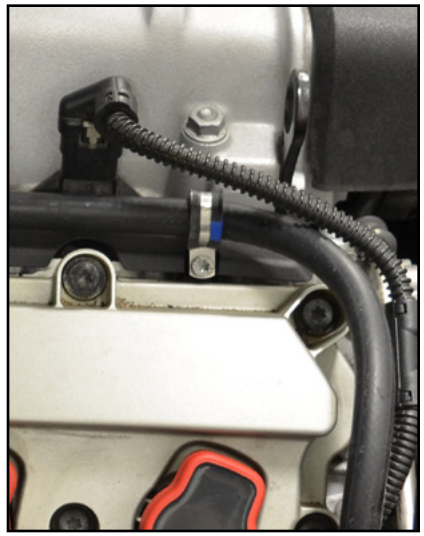


CAUTION: Make sure the clamp is tightened so that the hose will not twist or pop off. If the clamp is not fully tightened it may leak fuel which can be ignited by nearby hot engine components.

INSTALLING THE NEW FUEL LINE (PRE-FACELIFT)

Step 6: T25 Torx

Slide the Vibration Damping Clamp onto the fuel line, then thread the original mounting screw through both holes in the clamp and into M5x16mm Standoff we installed during step 2. Finally, tighten the mounting screw until it is snug.



Your Fuel Line Relocation Kit installation is complete!

REMOVING THE ORIGINAL FUEL LINE (FACELIFT)

Step 1:

For the purpose of this install, we are going to assume that the stock intake system has been removed from the vehicle before we begin. This way we can provide the clearest possible photos of the stock fuel line.

The original fuel line is highlighted in **BLUE** in the photo on the right, our goal today is to remove that line and replace it with our Fuel Line Relocation Kit, which will run behind the intake pipe and the breather tube for a cleaner overall install.

Step 2: Pliers

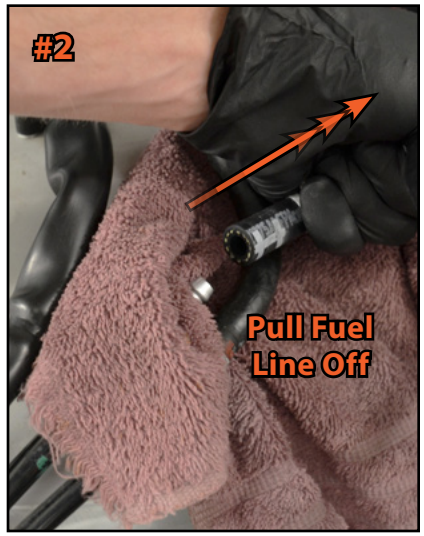
To begin, we need to release the clamp which holds the fuel line to the hard line mounted on the RH shock tower, but **DO NOT** remove the fuel line at this time. Place a rag/towel **BEHIND** and **AROUND** the fuel line to catch any fuel which is able to spray out.

CAUTION: Even though we are working on the low pressure side of the fuel system, there is still a **LOT** of fuel which can spray out during these steps. Work slowly, wear eye protection, and **ALWAYS** keep the rag/towel between you and the fuel line.

REMOVING THE ORIGINAL FUEL LINE (FACELIFT)

Step 3:

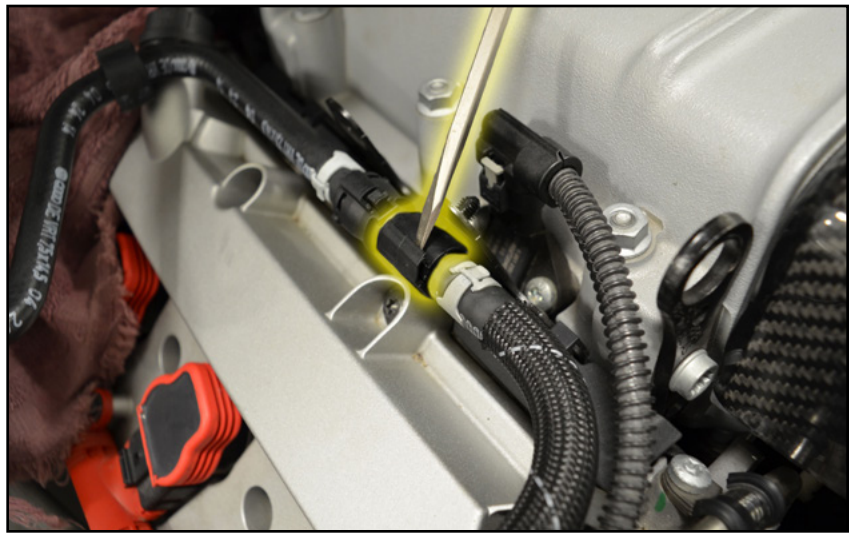
To remove the fuel line you'll need to wrap the rag/towel around the line to catch any spraying fuel while you twist and pull the fuel line off of the hard line as shown on the right.



CAUTION: Even though we are working on the low pressure side of the fuel system, there is still a **LOT** of fuel which can spray out during these steps. Work slowly, wear eye protection, and **ALWAYS** keep the rag/towel between you and the fuel line.

Step 4: Small Flat Blade Screwdriver

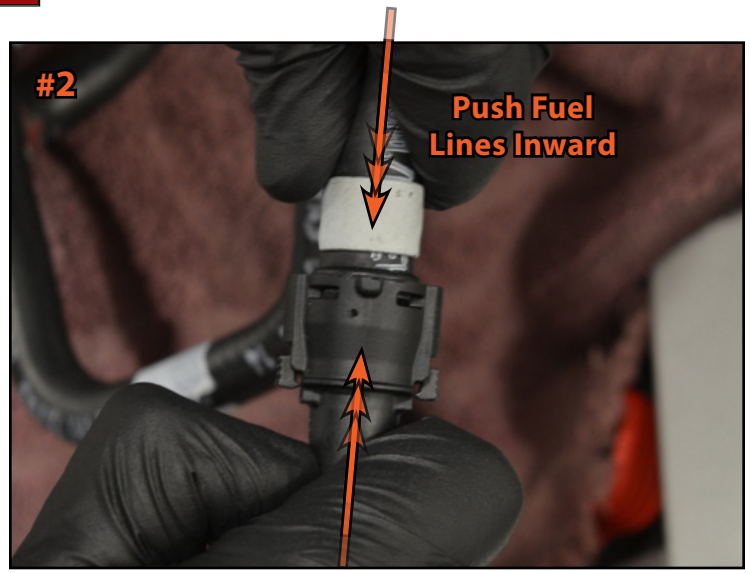
Release the fuel line from the retaining clip by gently prying the clip apart as shown in the photo.

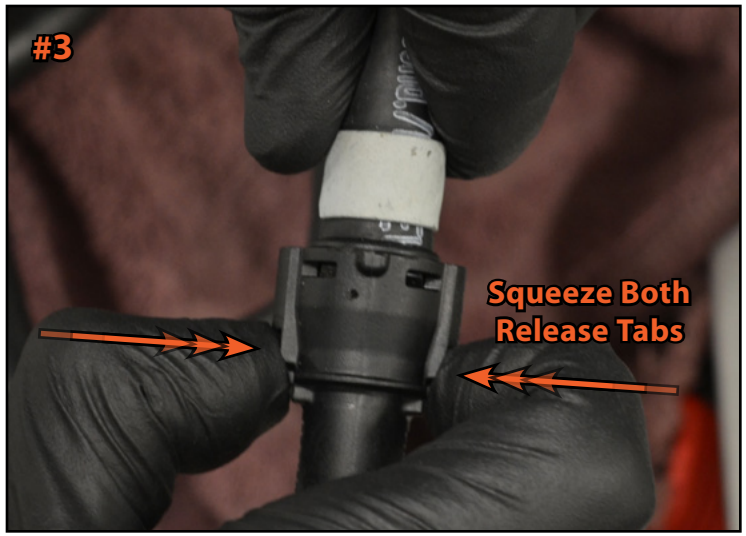


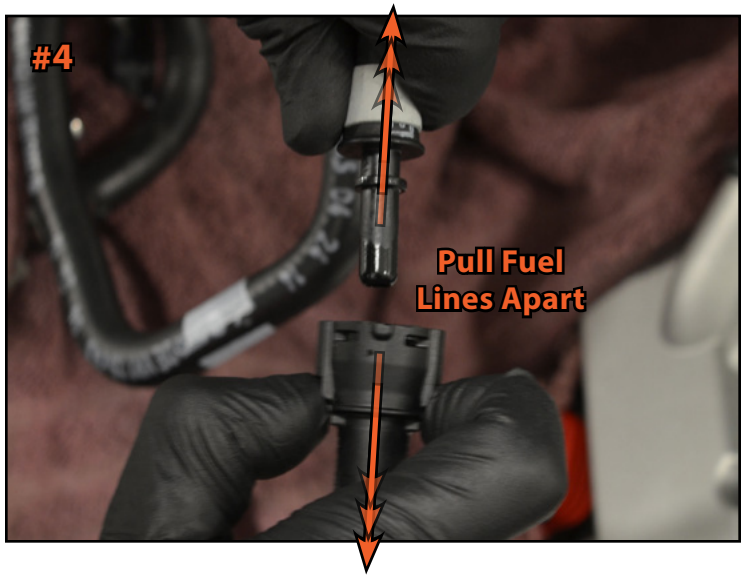
REMOVING THE ORIGINAL FUEL LINE (FACELIFT)

Step 5:

Now that the fuel line has been released from the retaining clip, the next step is to disconnect the rear section of hose from the quick disconnect fitting. To accomplish this, the lines must be grasped as shown in photo #1, then push them inward as shown in photo #2. While pushing the lines inward, squeeze the two release tabs on the quick disconnect fitting (shown in photo #3), then pull the lines apart (photo #4). Carefully remove the rear section of hose from the vehicle as there will still be some fuel left inside, then continue to Page 19.



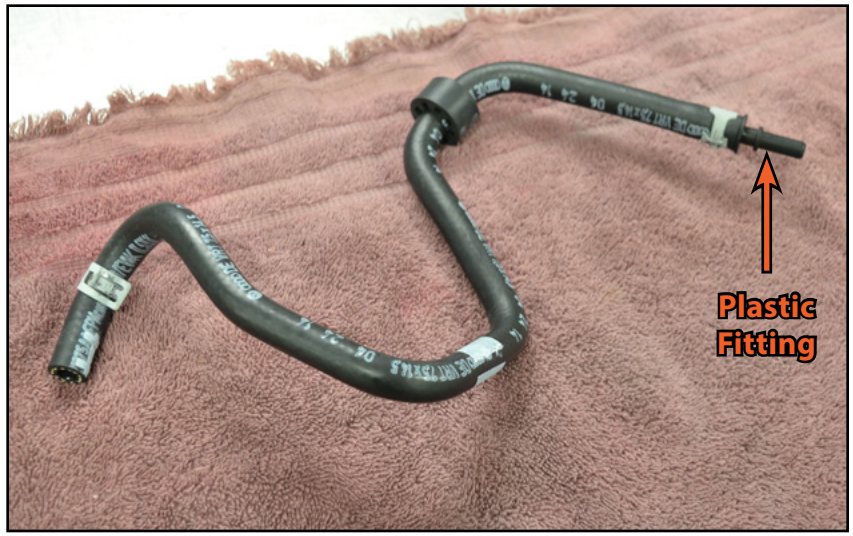




REMOVING THE ORIGINAL FUEL LINE (FACELIFT)

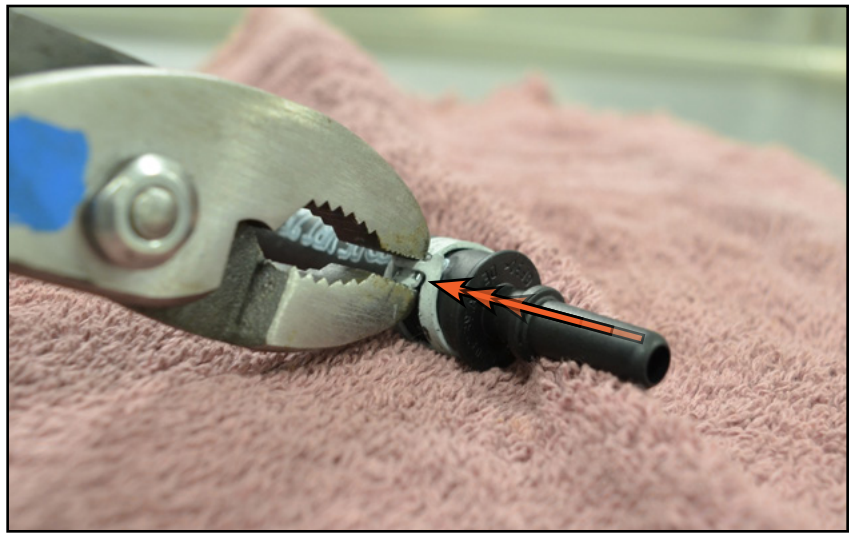
Step 6:

Drain any fuel from inside the fuel line into an approved container, then set the line onto a suitable work surface. We need to remove the plastic fitting from the front side of the hose (arrow) so we can reuse it for the new fuel line.



Step 7: Pliers

To begin, we need to release the clamp which holds the fuel line to the plastic fitting. Simply squeeze the clamp and slide it back on the hose.



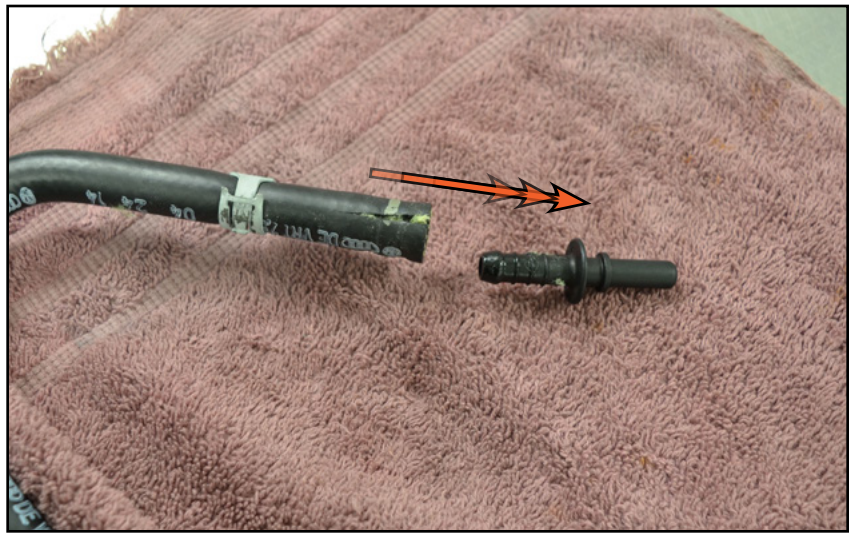
REMOVING THE ORIGINAL FUEL LINE (FACELIFT)

Step 8: Razor Blade

Since the fitting is made of plastic, and plastic will become brittle over time, the safest way to remove the fitting without breaking it will be to carefully cut the hose as shown in the photo with a **BRAND NEW** razor blade. Be sure to cut the hose along the entire length of the fitting, but do now use so much pressure that you accidentally cut through the plastic.

Step 9:

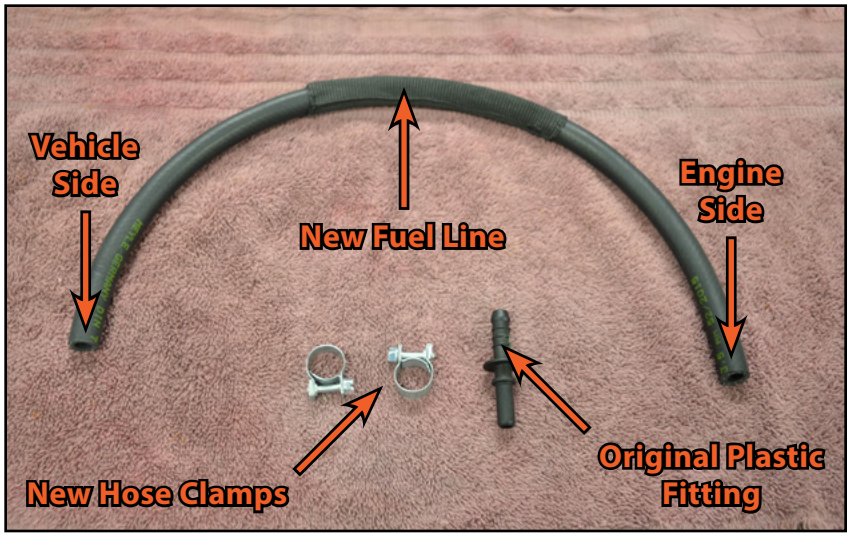
Once the hose has been completely cut, pull the ends of the hose back with your fingers and pull the fitting out of the hose. You can now discard the original fuel hose, but we will be utilizing the fitting on the new fuel line.



INSTALLING THE NEW FUEL LINE (FACELIFT)

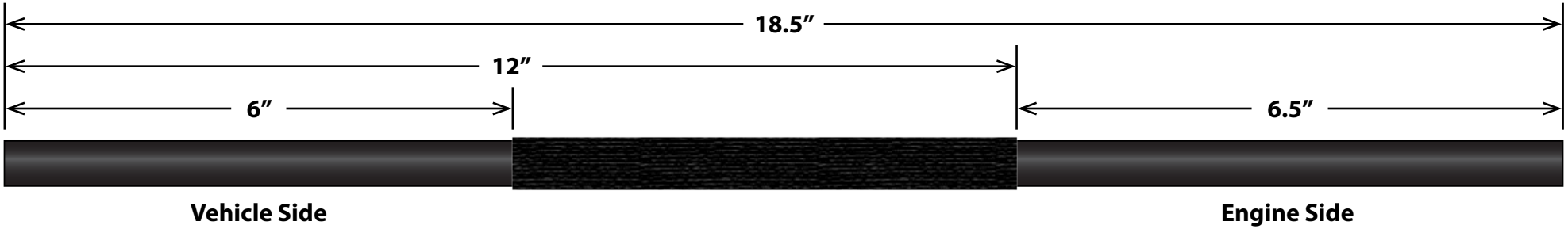
Step 1:

Now we're ready to begin assembling and installing the new fuel line. Reference the photo on the right and the illustration below to identify individual components. It is also helpful to identify both ends of the fuel line, the "Engine Side" will be installed into the quick disconenct fitting on top of the engine, and the "Vehicle Side" will be installed onto the hard line on the shock tower.



NOTE

The measurements shown in the illustration below are **APPROXIMATE**, the protective heat shrink is not 100% predictable when it is applied to the fuel line. The important thing here is to ensure that the slightly longer end of the fuel line is the "Engine Side", and the slightly shorter end is the "Vehicle Side".



INSTALLING THE NEW FUEL LINE (FACELIFT)

Step 2:

Slide one of the new hose clamps over the “Engine Side” of the fuel line, then insert the plastic fitting into the line. The hose clamp can be left loose at this time, we will tighten it once the line has been installed.

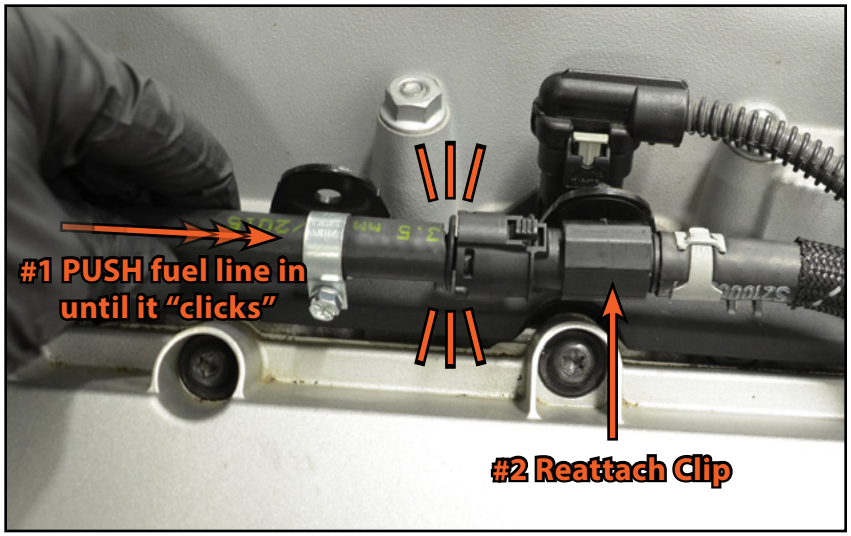
Step 3:

Slide the new fuel line under the breather tube on the RH valve cover (YELLOW circle in the photo), ensuring that the “Vehicle Side” of the fuel line is routed all the way to the hard line on the RH shock tower.

INSTALLING THE NEW FUEL LINE (FACELIFT)

Step 4:

Push the fuel line into the quick disconnect fitting until it “clicks” into place, then secure the line into place inside the retaining clip.



Step 5:

Slide the other new hose clamp over the “Vehicle Side” of the fuel line, then slide the line over the hard line mounted on the RH shock tower.

INSTALLING THE NEW FUEL LINE (FACELIFT)

Step 6: Flat Blade Screwdriver - **OR** - 7mm Socket & Ratchet

Tighten both of the hose clamps.

CAUTION: Make sure the clamps are tightened so that the hose will not twist or pop off. If the clamps are not fully tightened they may leak fuel which can be ignited by nearby hot engine components.

Your Fuel Line Relocation Kit installation is complete!

SCHWABEN - BUILD THE ULTIMATE TOOL COLLECTION

At ECS Tuning, we carry a line of high quality Schwaben Tools and Equipment to help you build your ultimate tool collection. Never before has affordability and quality been so closely related. Our entire Schwaben line is subjected to strict in house testing for strength and durability. See what we have to offer and equip your garage without breaking the bank.

Your Fuel Line Relocation Kit Installation is complete!

These instructions are provided as a courtesy by ECS Tuning

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

Although this material has been prepared with the intent to provide reliable information, no warranty (express or implied) is made as to its accuracy or completeness. Neither is any liability assumed for loss or damage resulting from reliance on this material. SPECIFICALLY, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY IS MADE OR TO BE IMPLIED WITH RESPECT TO THIS MATERIAL. In no event will ECS Tuning, Incorporated or its affiliates be liable for any damages, direct or indirect, consequential or compensatory, arising out of the use of this material.