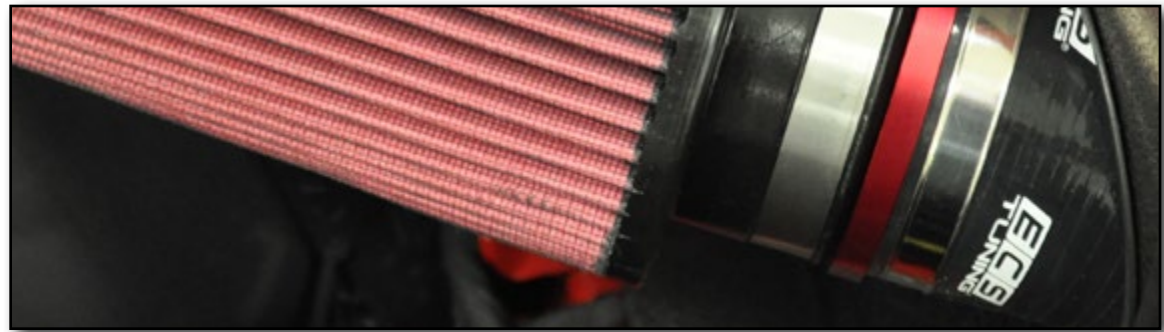




Audi B9 A4

Luft-Technik Intake System

Installation Instructions



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

ECS Tuning Luft-Technik Intake Systems

The art of engineering - the defining trait of ECS Tuning - has been skillfully applied to yet another canvas, with our new Audi B9 A4 Luft-Technik Intake System. A sleek, beautiful machine from the factory, the stock 2.0T performs well, but yearns for more. Our Luft-Technik Intake Systems have a track record of success, and our newest is no exception. Proven on the dyno and proven on the street, our new B9 A4 Luft-Technik Intake opens up a new world of performance for the 2.0T and compliments the lines and under hood style with tasteful precision. The easy installation, accurate fit, and affordable price make every aspect of it a winner, and prove once again that we are engineering works of art.

ECS Difficulty Gauge



1 - Easy Pro - 4
2 - Moderate Advanced - 3

Only a few basic tools are required for installation, and we'll walk you through it step by step. Once you get rolling, it'll come together quick, and you'll be cruising in no time. So let's get started! Scroll down and review the kit contents and required tools, check out the safety information, and Step 1 is the next thing in line! Thanks for looking to ECS Tuning for all your repair and maintenance needs. We appreciate your business!

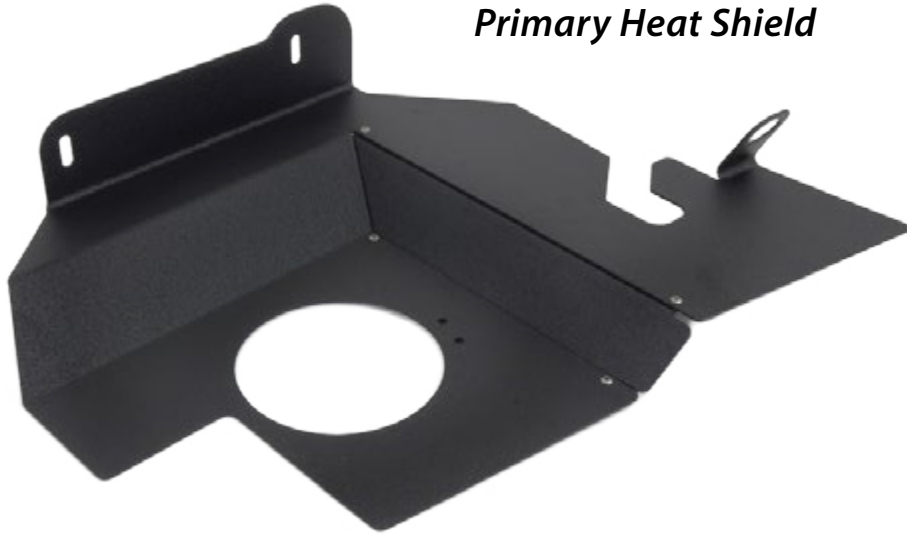


TABLE OF CONTENTS

Kit Contents.....	pg.4
Required Tools and Equipment.....	pg.7
Shop Supplies and Materials.....	pg.8
Installation and Safety Information.....	pg.9
Removing the Original Intake.....	pg.10
Installing the New Luft-Technik Intake.....	pg.16
Schwaben Tools	pg.28

KIT CONTENTS - MAIN STRUCTURE AND HEAT CONTROL

Primary Heat Shield



Secondary Heat Shield



Air Shroud



KIT CONTENTS - AIR INLET

High Flow Air Filter



Silicone Turbo Inlet Hose



Anodized Air Filter Coupler



KIT CONTENTS - HARDWARE

Clamps (1) 60-80mm, (1) 70-90mm



(1) Bulb Seal and (1) Edge Seal



Hardware Pack



- (1) 90 Degree Elbow**
- (1) Heat Shield Grommet**
- (1) M8 x 1.25 Grommet Bolt**
- (1) M6 x 60mm Air Shroud Screw**
- (1) M6 x 50mm Air Shroud Screw**
- (2) M5 x 14mm Hex Screws**
- (2) Heat Shield Foot Adapters**
- (2) M5 Black Oxide Washers**
- (6) M6 Black Oxide Washers**
- (4) M6 Nyloc Nuts**

REQUIRED TOOLS

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

Standard Automotive Tools

- 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](#)
- File Set
- Air Nozzle/Blow Gun
- Bench Mounted Vise
- Crows Foot Wrenches
- Hook and Pick Tool Set..... [ES#2778980](#)

Required For This Install

- **1/4" Drive Ratchet**..... [ES#2823235](#)
- **1/4" Drive Deep and Shallow Sockets**..... [ES#2823235](#)
- 1/4" Drive Extensions [ES#2823235](#)
- 1/4" Drive Torque Wrench
- 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
- Adjustable (Crescent) Type Wrenches
- Drill Bits
- Punch and Chisel Set
- **Hex Bit (Allen) Wrenches and Sockets** [ES#11420](#)
- Thread Repair Tools [ES#1306824](#)
- **Open/Boxed End Wrench Set** [ES#2765907](#)

Available On Our Website

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.

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. Always make sure that the vehicle is securely supported on jack stands.

REMOVING THE ORIGINAL INTAKE

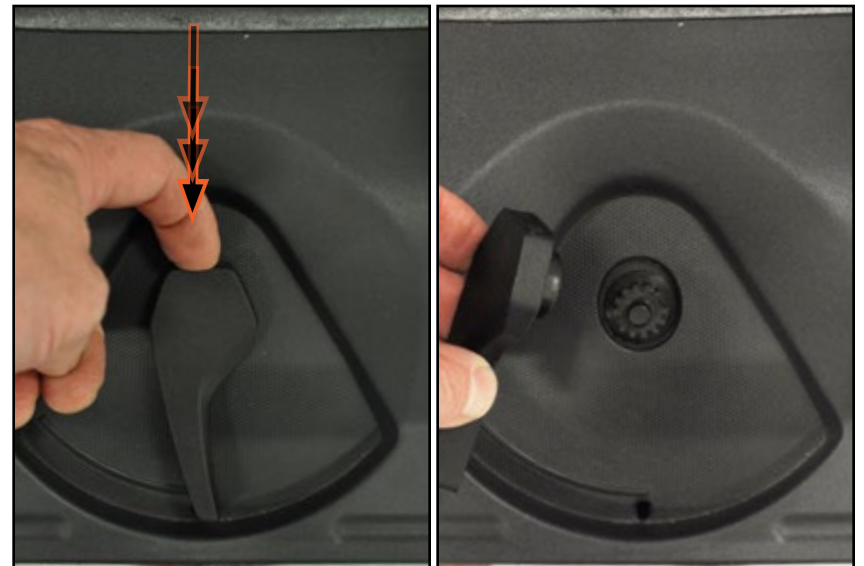
Step 1:

Look along the back edge of the hood release lever and you will see a release button.



Step 2:

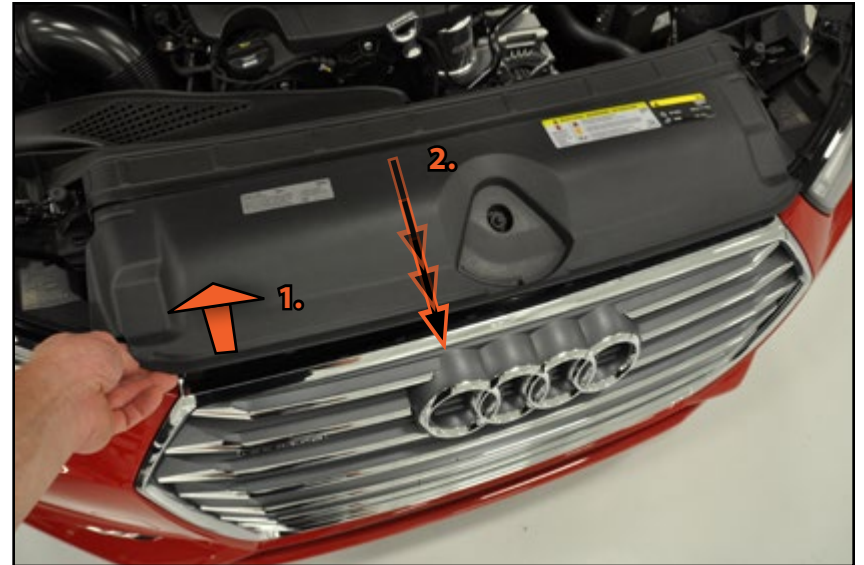
Push the button in with your finger, then pull the release lever off.



REMOVING THE ORIGINAL INTAKE

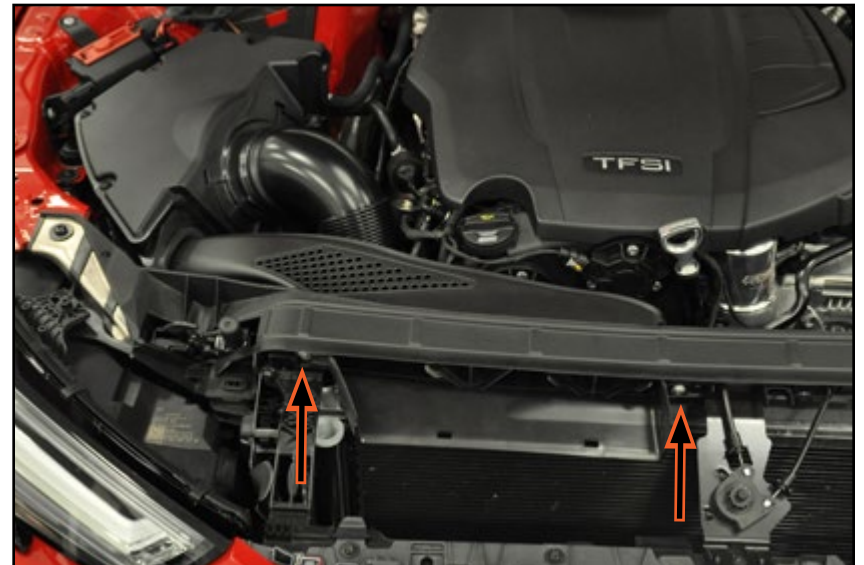
Step 3:

Remove the radiator shroud by pulling up on the front edge to unclip it from the grille, then pull it forward to slide it out of the core support.



Step 4: T25 Torx

Remove the two intake duct screws.



REMOVING THE ORIGINAL INTAKE

Step 5:

Pull the intake duct back from the core support, then pull it out of the air box.



Step 6:

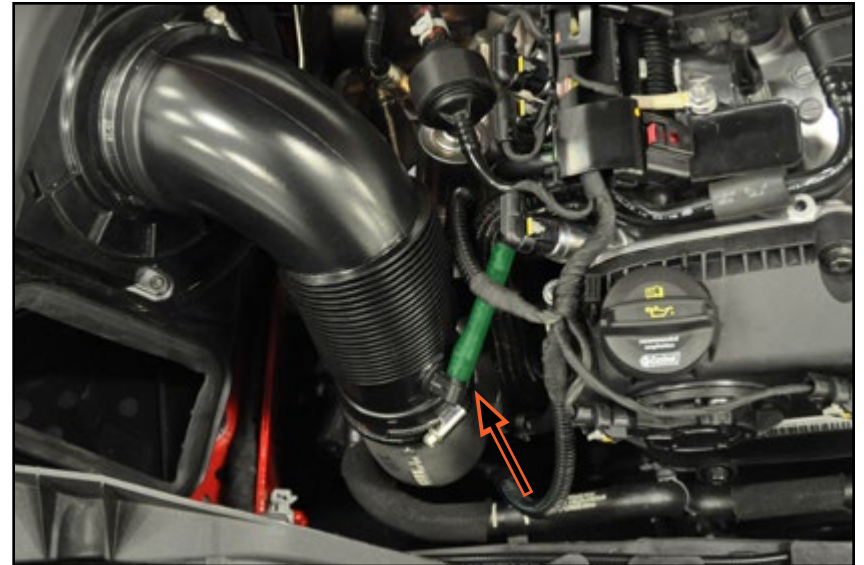
Remove the engine cover by pulling up at the four corners.



REMOVING THE ORIGINAL INTAKE

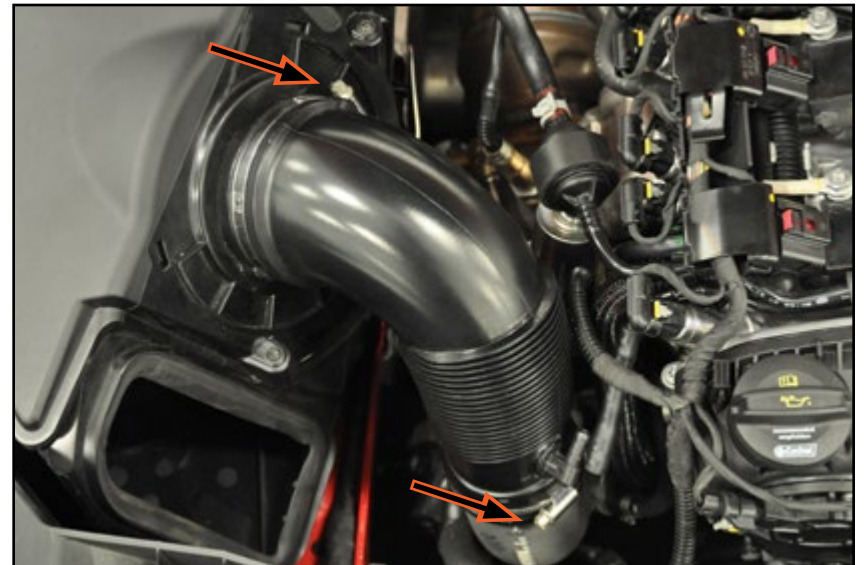
Step 7: Small Flat Blade Screwdriver

Locate the vent tube (highlighted) that attaches to the turbo inlet pipe elbow, and pull or pry it off.



Step 8: Flat Blade Screwdriver -or- 7mm Socket, Ratchet

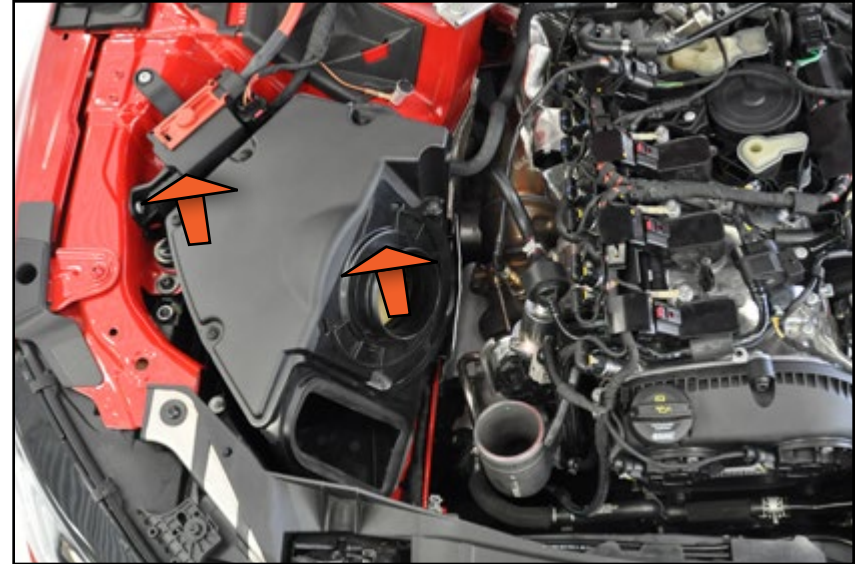
Loosen the two hose clamps and pull the turbo inlet pipe off the turbo and air box.



REMOVING THE ORIGINAL INTAKE

Step 9:

Now, simply pull straight up on the air box with both hands and remove it.



Step 10:

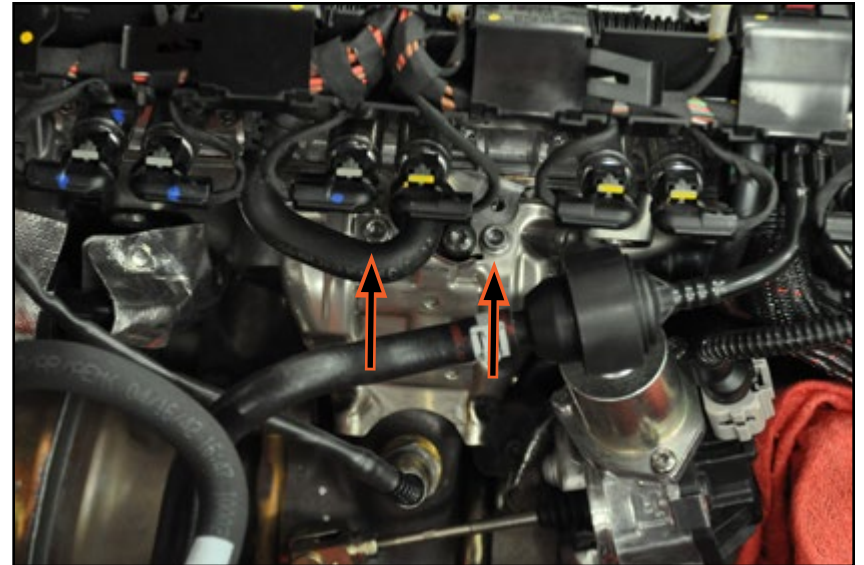
Place a rag over the turbo inlet to prevent anything from falling into it.



REMOVING THE ORIGINAL INTAKE

Step 11: 5mm Hex Bit (Allen) Wrench or Socket

Remove the two screws (arrows) on the original turbo heat shield.



Step 12:

Grab your new intake system and start unpacking. We've removed all of the original stuff and it's time to start installing your Luft-Technik system!



INSTALLING THE NEW LUFT-TECHNIK INTAKE

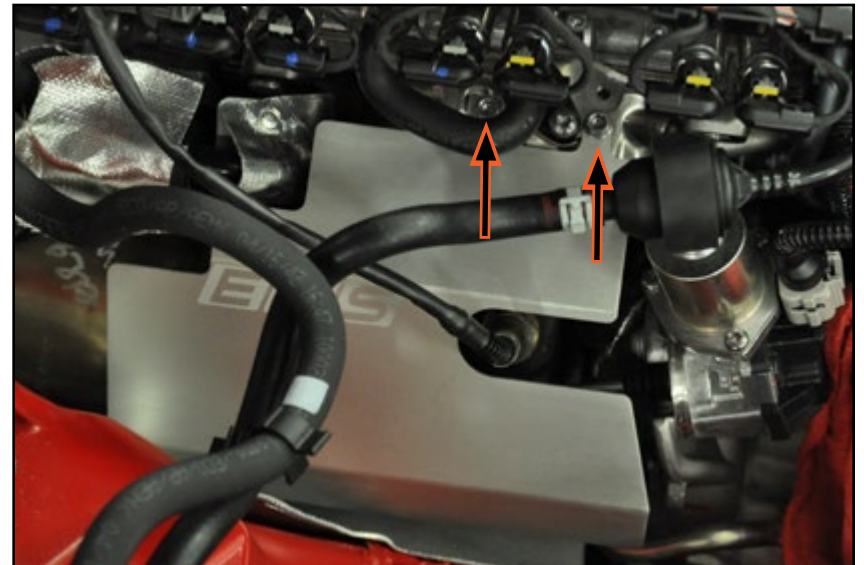
Step 1:

Carefully guide the ECS Secondary Heat Shield into place as shown, using caution not to snag any wires or scratch the paint with the edges of the shield.



Step 2: 5mm Hex Bit (Allen) Wrench or Socket

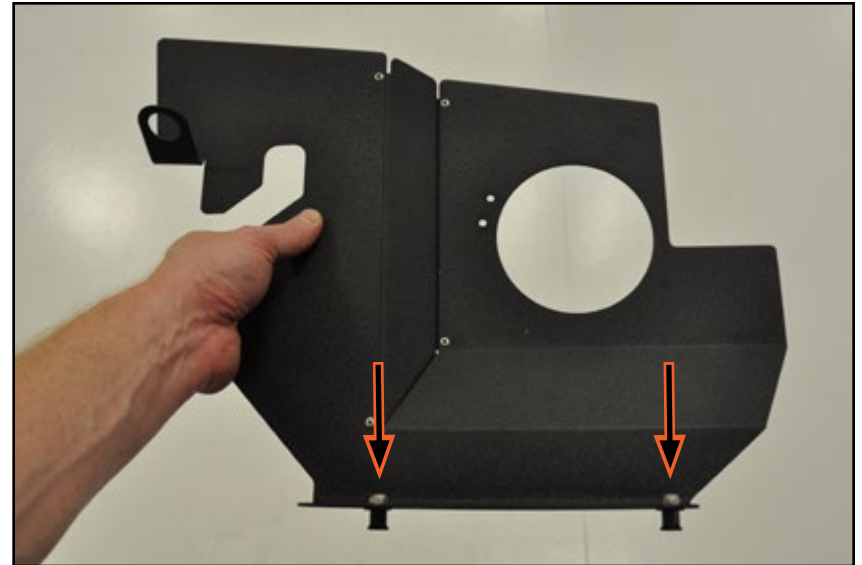
Line up the two bolt holes on the top of the shield, then install and tighten the two Allen screws that you just removed.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 3:

Using (4) M6 washers and (2) M6 Nyloc nuts, install the two heat shield foot adapters into the elongated slots in the Primary Heat Shield. Be sure to locate a washer on the top and bottom of the heat shield for each foot.



Step 4: 8mm, 10mm Wrenches

Make sure the feet are centered in the slots as shown, then hold them stationary while tightening the Nyloc nuts.

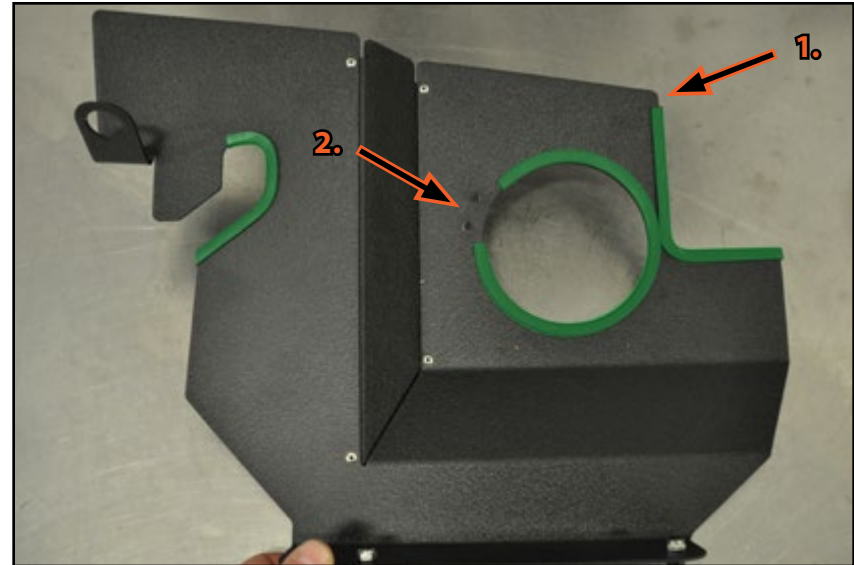


INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 5: Razor Blade

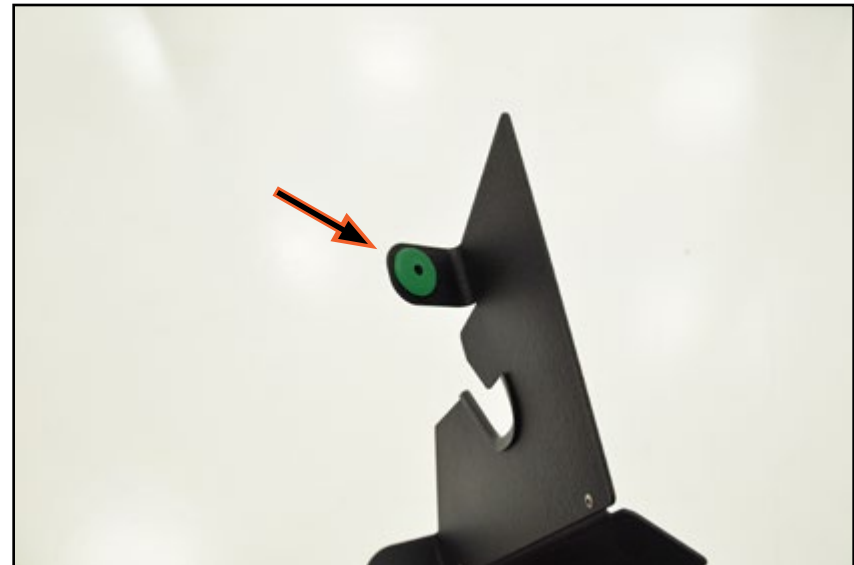
Cut to length as required, then install the small edge seal (highlighted) onto the Primary Heat Shield in the areas shown. Note the following:

- 1:** Leave enough of a gap at the top to install the bulb seal.
- 2:** Leave enough of a gap by these mounting holes to install the Anodized Air Filter Coupler.



Step 6:

Install the grommet into the ear of the Primary Heat Shield.



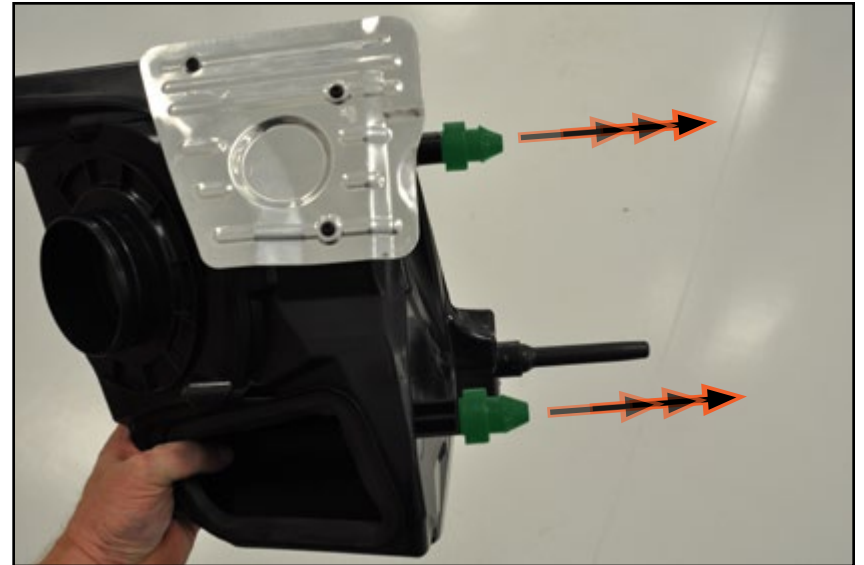
INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 7:

Pull the two rubber mounts off the bottom of the original air box.

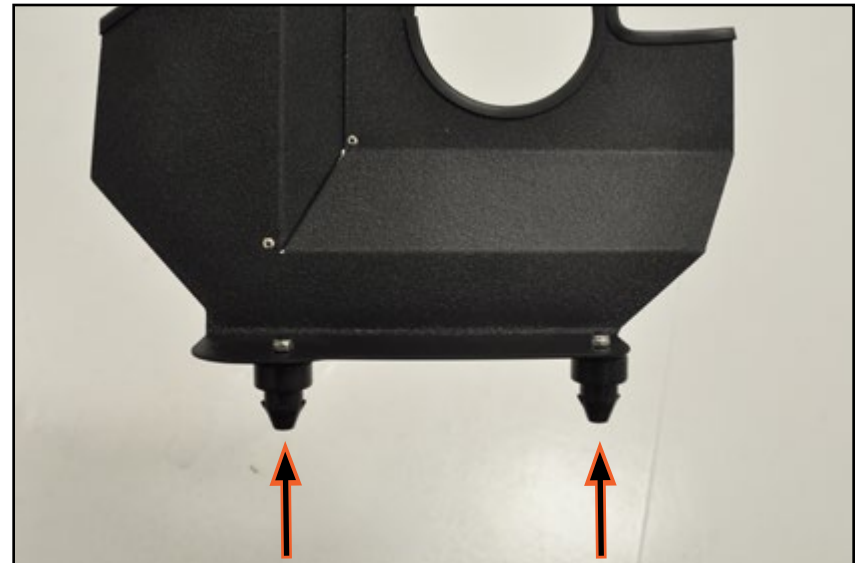


If either of these mounts is missing, check the frame rail on the car. Occasionally they stick in place instead of coming off with the air box.



Step 8:

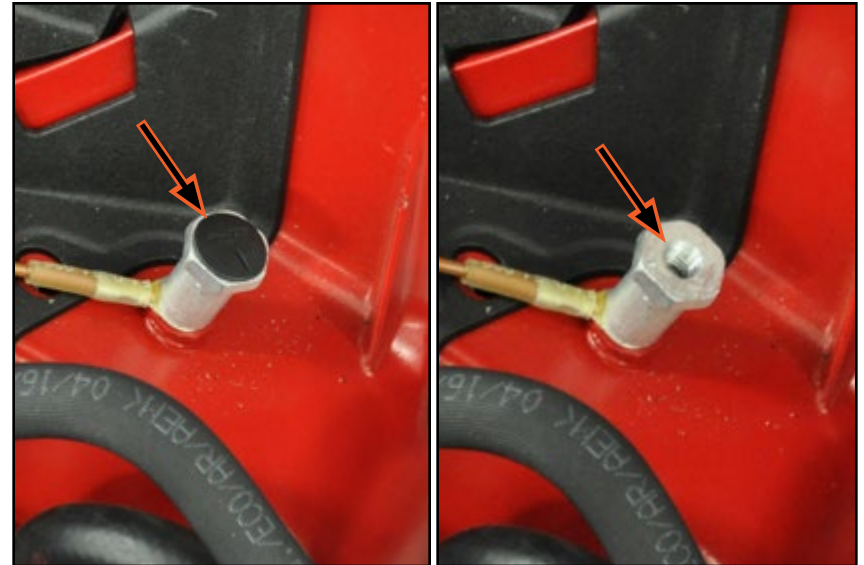
Push the rubber mounts onto the foot adapters of the Primary Heat Shield.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 9: Small Flat Blade Screwdriver

Pry the plastic cap out of the negative jump-start boss. With the cap removed, notice the threads in the center.



Step 10:

Install the Primary Heat Shield into place by lining up the rubber mounts with the holes in the frame horn, guiding the fuel lines into the heat shield cut out, then pushing it down into place until the mounts are fully seated.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 11: 5mm Allen Wrench

Install and tighten the M8 x 1.25 grommet bolt.



Step 12:

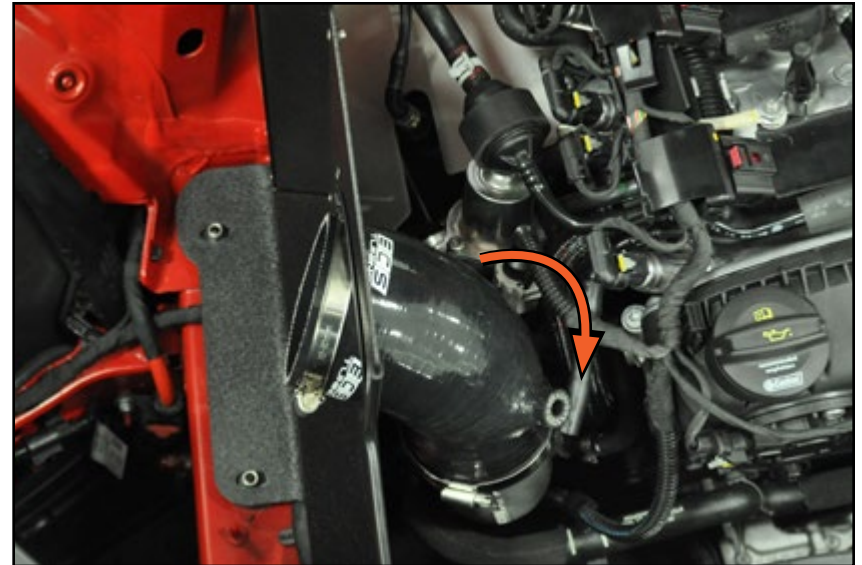
Place the hose clamps over the end of the Silicone Turbo Inlet Hose. Be sure and place the 70-90mm hose clamp over the larger end and the 60-80mm hose clamp over the smaller end.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 13:

Remove the rag that is covering the turbo inlet, then route the Turbo Inlet Hose through the Primary Heat Shield and push it into place on the turbo. Do not tighten the clamp at this time.



Step 14:

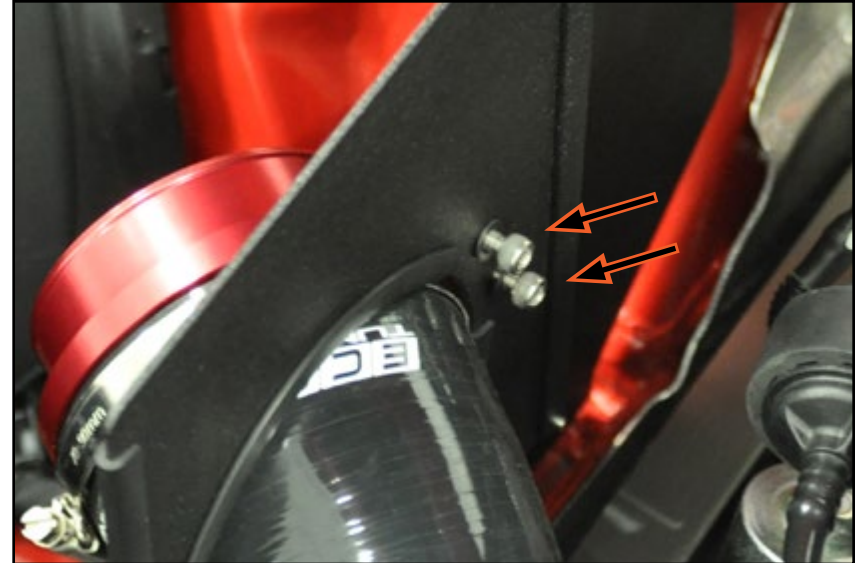
Push the Air Filter Coupler into the end of the Silicone Turbo Inlet Hose so the coupler mounting pad is flush with the surface of the Primary Heat Shield. Do not tighten the clamp at this time.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

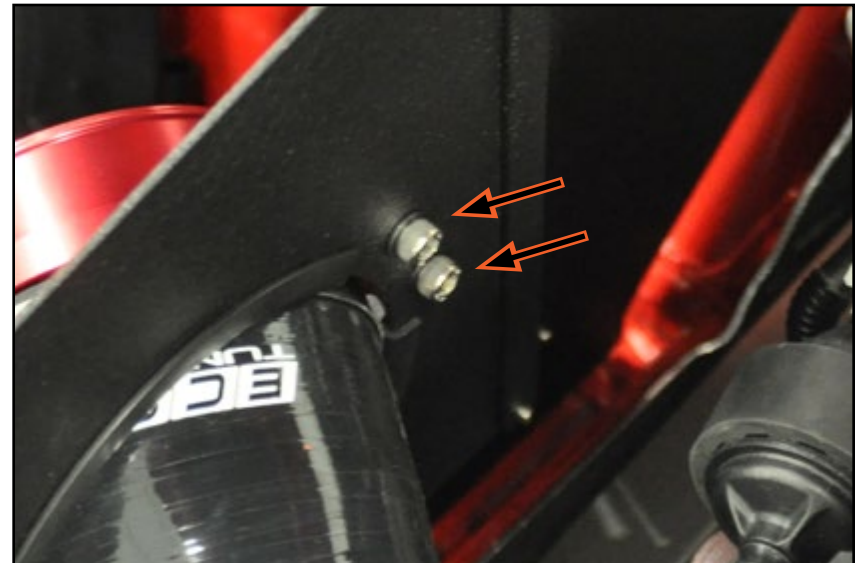
Step 15:

Place an M5 washer onto each of the M5 hex screws, then start both screws through the primary heat shield and into the Air Filter Coupler. If the Air Filter Coupler is properly lined up with the Primary Heat Shield, both screws should start easily and thread in smoothly.



Step 16: 4mm Allen Wrench

Tighten both of the Air Filter Coupler screws.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 17: Flat Blade Screwdriver

Align the clamps on the top and bottom of the Turbo Inlet Hose, then fully tighten them. As you can see here, we have rotated them so the clamp drive is underneath, providing a clean look.



Step 18:

Push the 90 degree elbow into the Silicone Turbo Inlet Hose and reconnect the vent tube.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

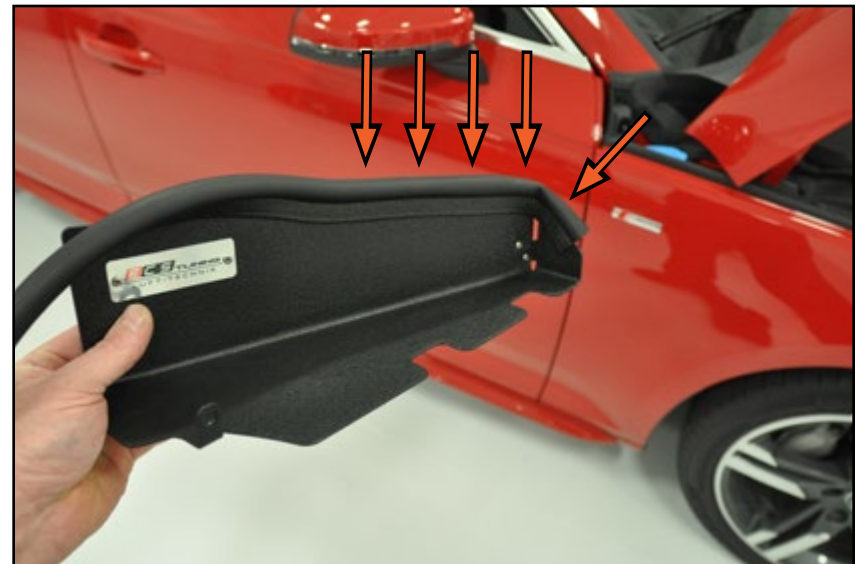
Step 19: Flat Blade Screwdriver

Push the air filter onto the end of the coupler, then tighten the filter clamp. As seen here, push the filter on by the end. Do not hold it by the pleats. They will easily distort and bend, and take away from the clean look. Also as we did with the Turbo Inlet Hose, we rotated the clamp drive underneath before we tightened it.



Step 20:

Start the bulb seal onto the Air Shroud by pushing it on at the front corner, as shown in the picture.

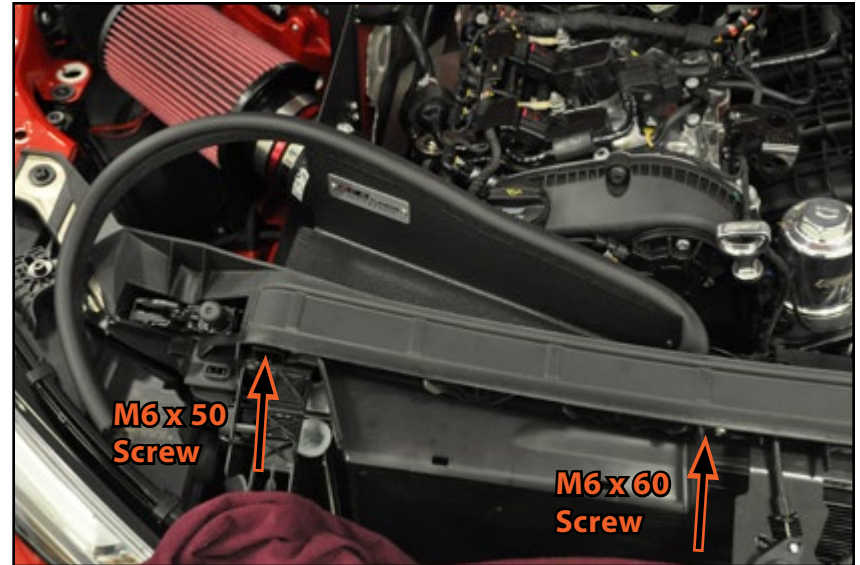


INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 21: 4mm Allen, 10mm Box Wrench

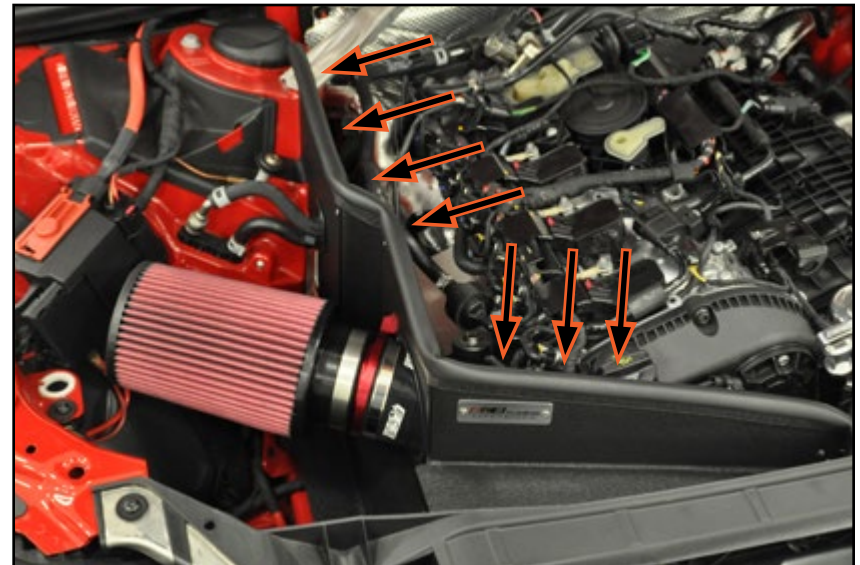
Position the Air Shroud in place, making sure to tuck the bulb seal under the core support. Install the Air Shroud screws through the core support and into the Air Shroud in the locations shown in the picture.

Finally, install an M6 washer and Nyloc nut onto each screw and tighten the Air Shroud in place.



Step 22:

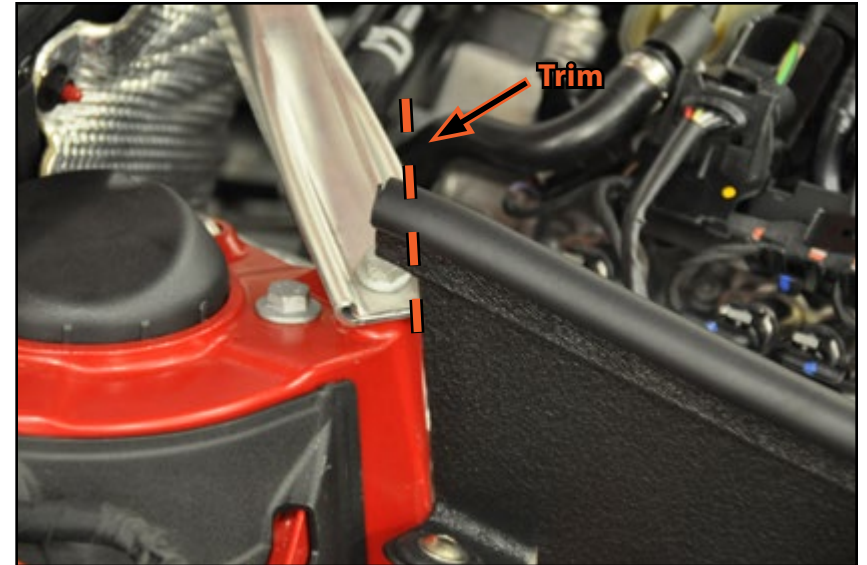
Push the rest of the bulb seal in place along the top of the Air Shroud and Primary Heat Shield.



INSTALLING THE NEW LUFT-TECHNIK INTAKE

Step 23: Side Cutters

Trim the end of the bulb seal so it is flush with the end of the Primary Heat Shield.



Step 24:

Reinstall the radiator shroud and hood release lever.



Your Luft-Technik Intake 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 Luft-Technik Intake 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.