



## VW/Audi 24v VR6 Billet Oil Filter Housing Installation



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 Billet Oil Filter Housing ES#2804145 ES#2804146

The ECS Tuning Billet Oil Filter Housing offers the following features:

- Constructed of high quality 6061 aluminum
- Direct Replacement for OE housing
- Made in the USA
- Engineered to exacting specifications
- Comes complete with a new drain plug and sealing washer

#### NOTE

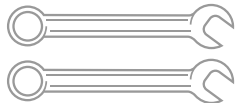
This filter housing does not fit the VW Touareg or Audi Q7. Please visit [ecstuning.com](http://ecstuning.com) to check housing availability for these applications.

#### EASY



**BASIC SKILLS  
REQUIRED**

#### MODERATE



**SOME EXPERIENCE  
RECOMMENDED**

#### ADVANCED



**ADVANCED SKILLS &  
EXPERIENCE REQUIRED**

#### PROFESSIONAL



**PROFESSIONAL SKILLS &  
SPECIALTY TOOLS REQUIRED**

Installing an ECS Tuning Billet Oil Filter Housing is a quick and easy project that can be done as a stand alone upgrade or along with a regular oil change service. Installation is a breeze and you can count on the precision of our meticulously engineered products for a perfect fit and years of service. Before you begin, read and familiarize yourself with these instructions and make sure you have all the required tools on hand. Thank you for purchasing our ECS Tuning Billet Oil Filter Housing. We appreciate your business!

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## REQUIRED TOOLS

**NOTE** We recommend that you have a complete selection of tools and equipment necessary for automotive repair. Below is a list of the specific tools that will be required to install your ECS Tuning Billet Oil Filter Housing. Additional tools may be required for any issues that arise during installation such as rust, corrosion, or broken and stripped fasteners.

*These tools are available at [ecstuning.com](http://ecstuning.com)*

- 3/8" Drive Torque Wrench ..... [ES#2221245](#)
- Flat Blade Screwdriver(s) ..... [ES#2225921](#)
- Oil Drain Pan ..... [ES#2748892](#)
- 36 mm Schwaben Oil Filter Housing Socket ..... [ES#240945](#)
- Torx Drivers T25 ..... [ES#11417](#)
- 3/8" Drive Ratchet
- Hex Bit Socket: 6mm
- Angled Pick Tool



## SHOP SUPPLIES AND MATERIALS

- Hand Cleaner/Degreaser..... Available at [ecstuning.com](http://ecstuning.com)..... [ES#2167336](#)
- Absorbent Floor Mats ..... Available at [ecstuning.com](http://ecstuning.com)..... [ES#2137110](#)
- Shop Rags ..... Available at your local auto parts store

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

## REMOVING THE ORIGINAL FILTER HOUSING

### Step 1:

Safely raise and support your vehicle, then remove any lower engine covers or shields as necessary to access the original oil filter housing (arrow).

**NOTE**

Most lower engine covers will require either a flat blade screwdriver or torx driver for removal.



### Step 2:

Position a drain pan underneath, then using a 6mm hex bit socket, remove the drain plug from the center of the original filter housing.



## REMOVING THE ORIGINAL FILTER HOUSING

### Step 3:

Using the 36mm Schwaben oil filter housing socket, loosen and remove the original oil filter housing.

**NOTE**

Make sure you leave the drain pan in place. Additional oil will be lost when removing the filter housing.



### Step 4:

Hold the housing and pull up on the original filter to remove it. If you are replacing the filter, allow it to drain completely before discarding it.

**NOTE**

We are installing a new filter as part of this procedure, but you may re-use your old one if it is not due for replacement.



## REMOVING THE ORIGINAL FILTER HOUSING

### Step 5:

You will need to remove the original filter seat and spring, to be installed in the new billet housing. Using a small angled pick or small flat blade screwdriver, gently pry out one of the retaining tabs under the filter seat while pulling up on the seat with your finger at the same point. It will only require very slight flexing of one of the tabs to release the seat. Because you are not able to see the retaining tabs with the seat in place, we have included a picture of the new housing here for clarity and detail.



### Step 6:

Lift the filter seat out of the original housing, then lift out the spring that is located underneath.





## INSTALLING THE NEW BILLET ALUMINUM HOUSING

### Step 1:

Place the spring into the base of the new billet housing.



### Step 2:

Inspect the filter seat and note the notches that line up with the retaining tabs in the housing.



## INSTALLING THE NEW BILLET ALUMINUM HOUSING

### Step 3:

Line the filter seat up with the tabs in the new billet housing, then press down firmly until it snaps in to place. The filter seat will stay in place once it is installed.



### Step 4:

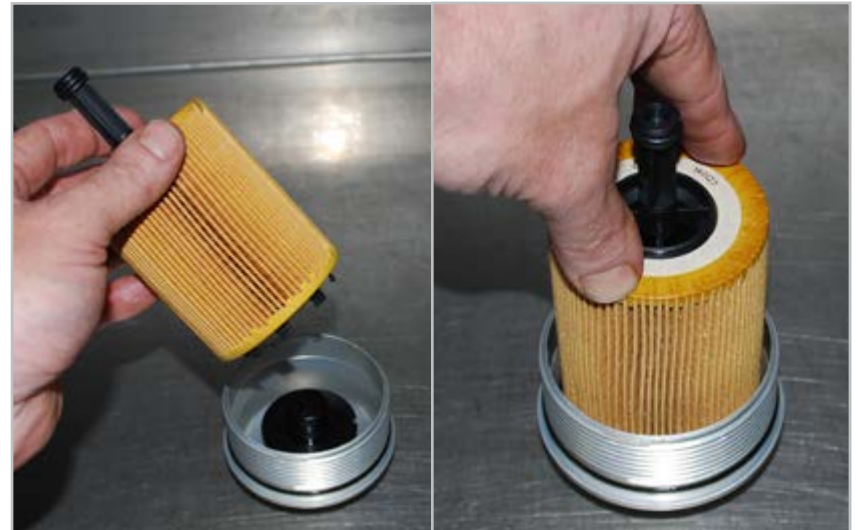
Lubricate the new housing o-ring with clean motor oil. (A new seal is included with a new filter). Install the o-ring into the groove in the new billet housing.



## INSTALLING THE NEW BILLET ALUMINUM HOUSING

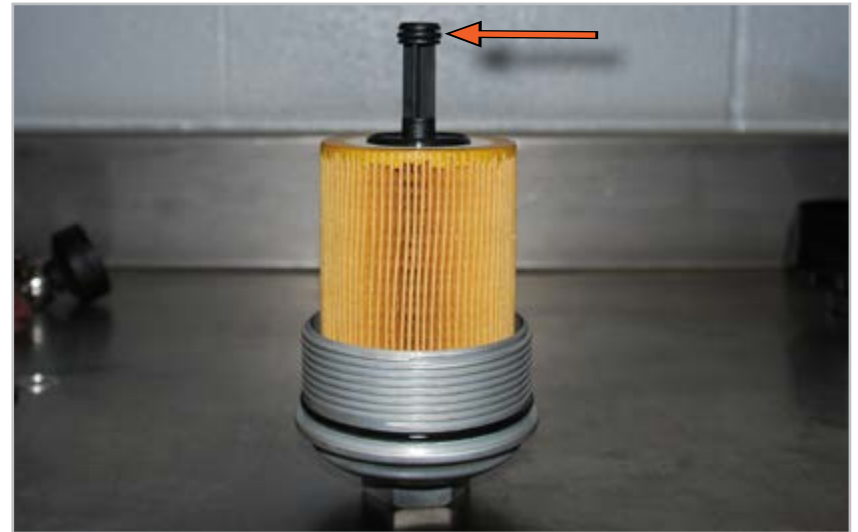
### Step 5:

Place the new filter into the housing and press down until it clips in place.



### Step 6:

Lubricate the upper o-ring with clean motor oil (arrow). The new billet housing and filter are ready to install.



## INSTALLING THE NEW BILLET ALUMINUM HOUSING

### Step 7:

Clean the seal contact surface for the oil filter housing o-ring. It is best to wipe it clean with your finger so you do not leave any lint or unwanted particles on the surface.



### Step 8:

Install the new filter and housing, starting it by hand, then threading it all the way in until it is fully seated using the 36mm Schwaben filter housing socket.



## INSTALLING THE NEW BILLET ALUMINUM HOUSING

### Step 9:

Torque the new housing to 25 Nm (18 Ft-lbs).



### Step 10:

Using a 6mm hex bit socket, install the new drain plug w/ sealing washer, torque it to 22 Nm (16 Ft-lbs), then complete the final steps on the following checklist:

If you have performed a complete oil change along with this housing installation, fill the engine oil at this time before proceeding.

If you have replaced just the housing and filter, add approx. 1/2 qt oil to replenish what is lost during housing installation.

Start the engine and check for leaks.

Check the engine oil level and add oil to the correct level as indicated on the engine oil dipstick.

Install any lower engine covers that have been removed.



Your Billet Oil Filter Housing installation is complete!



These instructions are provided as a courtesy by ECS Tuning.

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