FSI Carbon Fiber Engine Cover
Installation Instructions - ES3509779/ES3509780

Skill Level 1 - Easy











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.

PROJECT OVERVIEW

Although this engine cover is compatible with both transverse and longitudinal engines, there are a few differences which are important to understand before we begin:

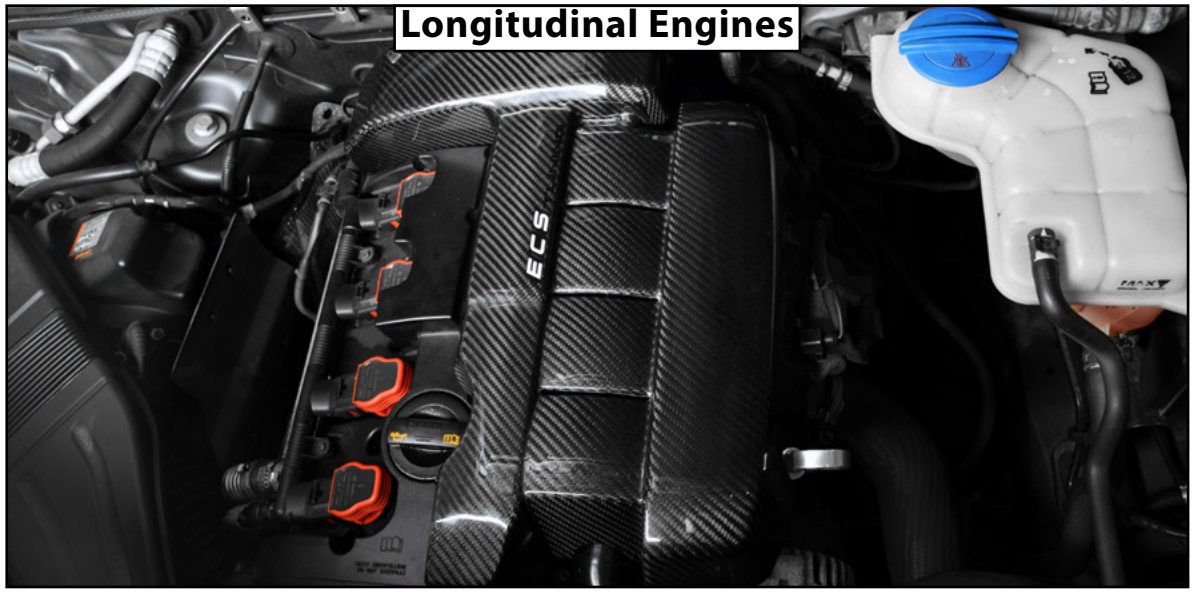
Transverse engines are mounted perpendicularly to the direction of travel, lying horizontally within the engine bay. This engine configuration is standard in VW applications as well as in the Audi 8P A3. These engines feature an oil filler neck that juts out past the engine cover, we document an optional procedure to remove this filler neck for a cleaner look.

Longitudinal engines are mounted down the centerline of the vehicle, and sit vertically within the engine bay. This engine configuration is standard in the Audi B7 A4. The longitudinal version of this engine has a different mounting bracket that must be swapped out before we can install the engine cover. The longitudinal engine cover kit includes this bracket.

In this installation guide we will be showing installation of the cover on a longitudinal engine, but installation on a transverse engine will be the same procedure, just flipped 90 degrees clockwise.

Now let's get to it!





INSTALLING THE ENGINE COVER

Step 1:

Pull straight up to remove the stock engine cover from the engine.



If you are installing this engine cover on a transverse engine, you can skip ahead to page 6 to continue with the installation.

Step 2:

Unclip the retainer securing the fuel line to the engine cover bracket.



INSTALLING THE ENGINE COVER

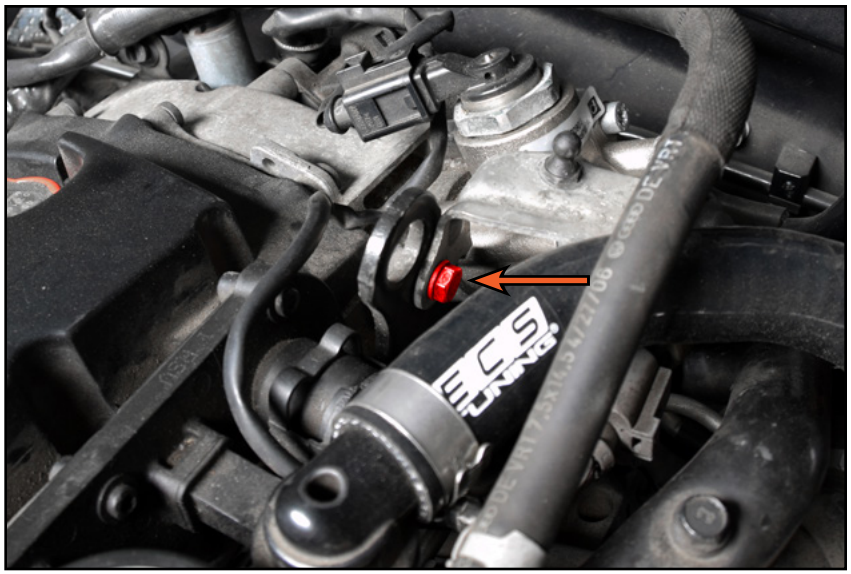
Step 3:

Remove the retainer clip from the bracket.



Step 4:

Remove the 10mm bolt and washer securing the stock bracket.



INSTALLING THE ENGINE COVER

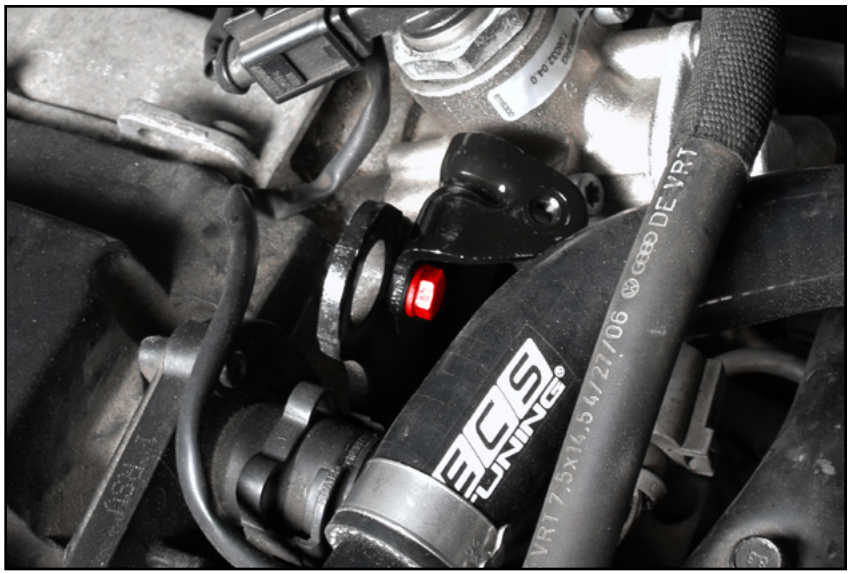
Step 5:

The new bracket features a locating bump to help align it in the correct mounting position, ensure the bump on the bracket engages the locating hole when installed.



Step 6:

Reinstall the 10mm bolt and washer to secure the new bracket in place.



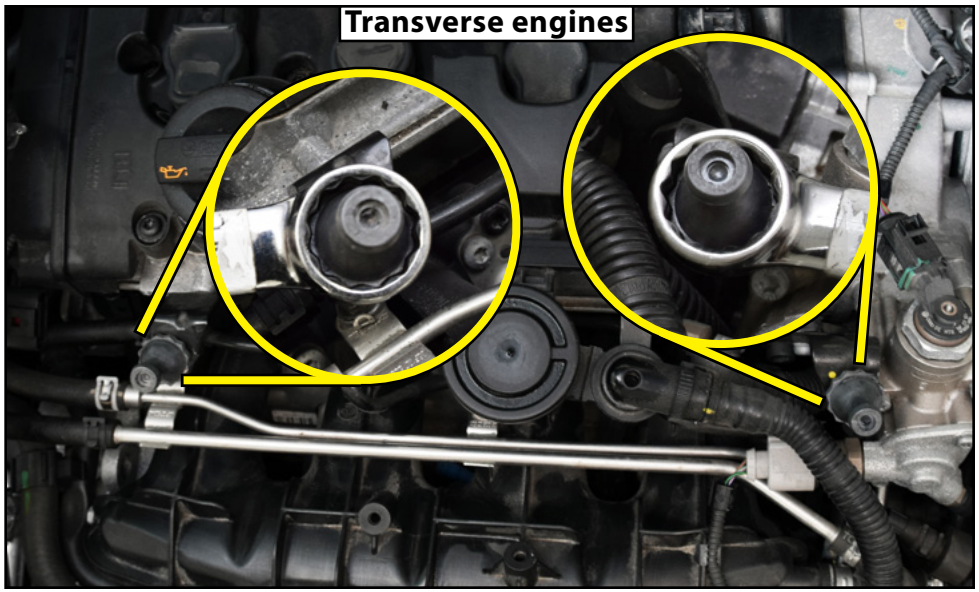
INSTALLING THE ENGINE COVER

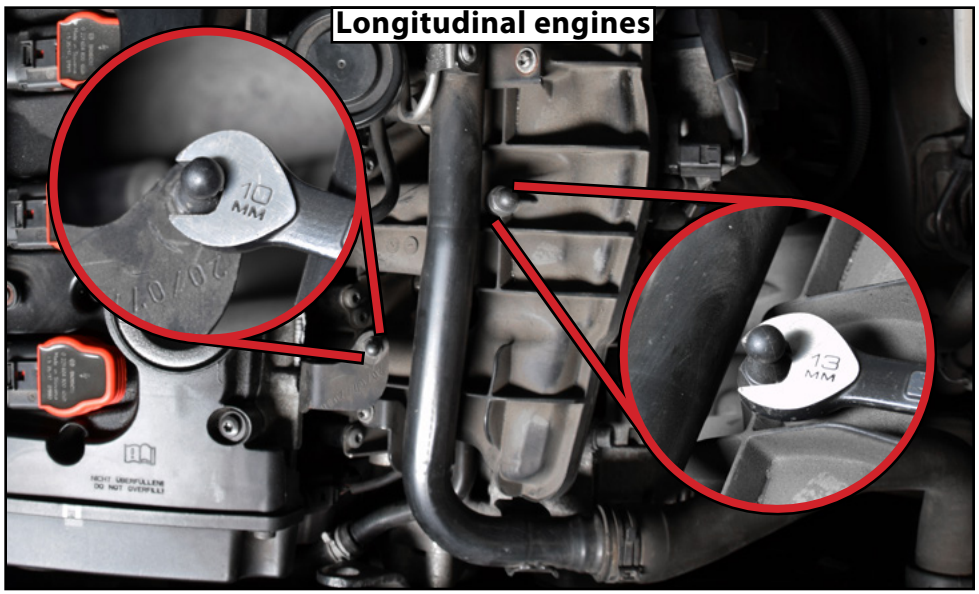
Step 7: 10mm Wrench, 13mm Wrench, 24mm Wrench

Next we will need to remove the two remaining ball studs from the engine.

Transverse engines feature larger ball studs that must be removed with a 12-point wrench. The first ball stud can be found on the LH side of the engine by the high pressure fuel pump and the second can be found just below the oil filler neck on the RH side of the engine.

Longitudinal engines feature smaller ball studs, the first can be found in a bracket on the LH side of the oil cap and the second is installed into the plastic intake manifold.



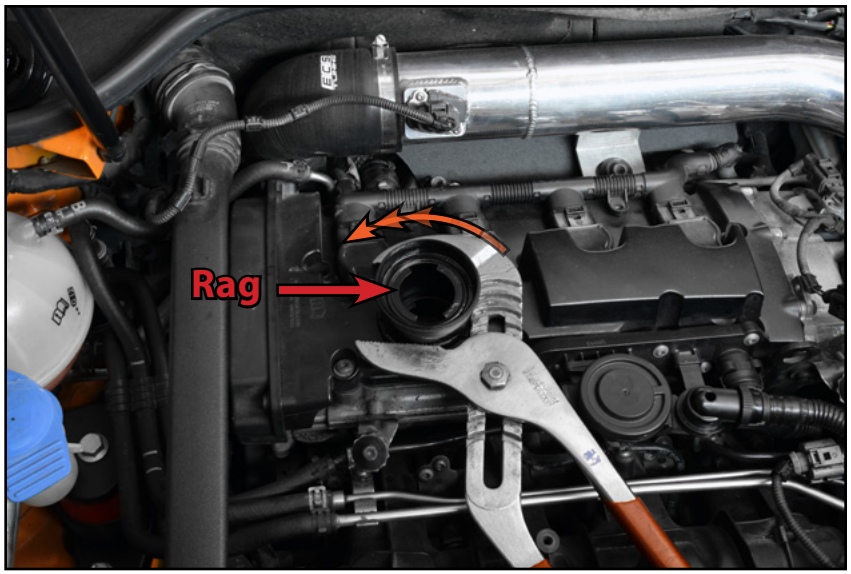


If you are installing this kit on a longitudinal engine, you may skip ahead to page 8 to continue with your installation.

INSTALLING THE ENGINE COVER

Step 8:

If you choose to break off the oil filler neck for a cleaner look, first place a rag inside the filler neck to stop any dried adhesive from falling into the crank case. Using a large pair of channel locks, grip the filler neck and twist it until it breaks free.

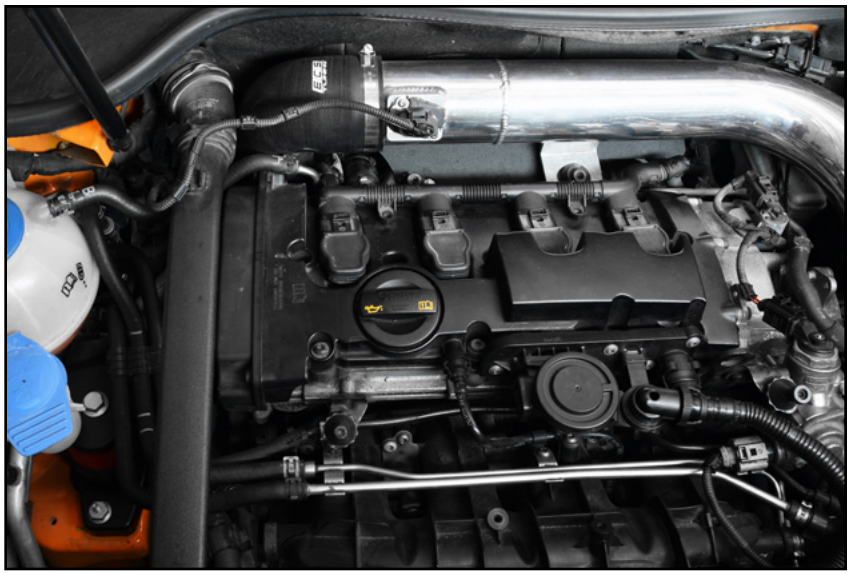


TECH TIP

Letting the engine run for a few minutes beforehand will help make the adhesive more pliable and help to make it easier to break free. However It will still take some serious elbow grease to break the neck free.

Step 9:

Clean any leftover adhesive from the hole and remove the rag, then install the oil cap.



INSTALLING THE ENGINE COVER

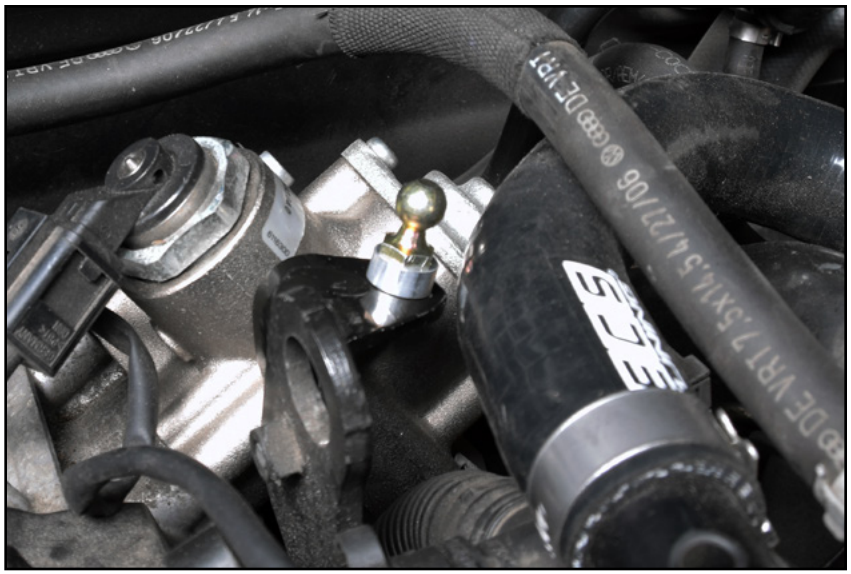
Step 10:

Your kit includes three spacers which must be slid onto each of the three ball studs before installing them.



Step 11: 10mm Wrench

Install a spacer and ball stud into the bracket



INSTALLING THE ENGINE COVER

Step 12: 10mm Wrench

Install a spacer and ball stud into the bracket



Step 13: 13mm Wrench

Install a spacer and the larger plastic ball stud into the threaded hole in the plastic intake manifold.



INSTALLING THE ENGINE COVER

Step 14:

Align the rear ball stud with the rubber grommet and push down to pop it in place.



Step 15:

Firmly push along the front and side of the engine cover to pop the other two ball studs into the grommet, securing the engine cover.



Congratulations, your installation is complete!

CARBON FIBER CLEANING AND CARE

ECS Tuning Carbon Fiber Intakes are clear coated for excellent finish durability and UV resistance right out of the box.

Carbon fiber can be washed with any gentle cleanser or soap. If it is safe for the paint on your car, it will be safe for the carbon fiber.

Be extra careful not to nick or deeply scratch the clear coat on the carbon fiber. This can lead to water intrusion into the carbon fiber which will damage the finish and the integrity of the intake.

If the clear coat does get nicked or deeply scratched to expose the carbon fiber, seal the damaged area thoroughly with a clear coat touch up or clear nail polish.

To retain UV resistance and protect the finish, we recommend regular waxing with a high quality caranuba wax.

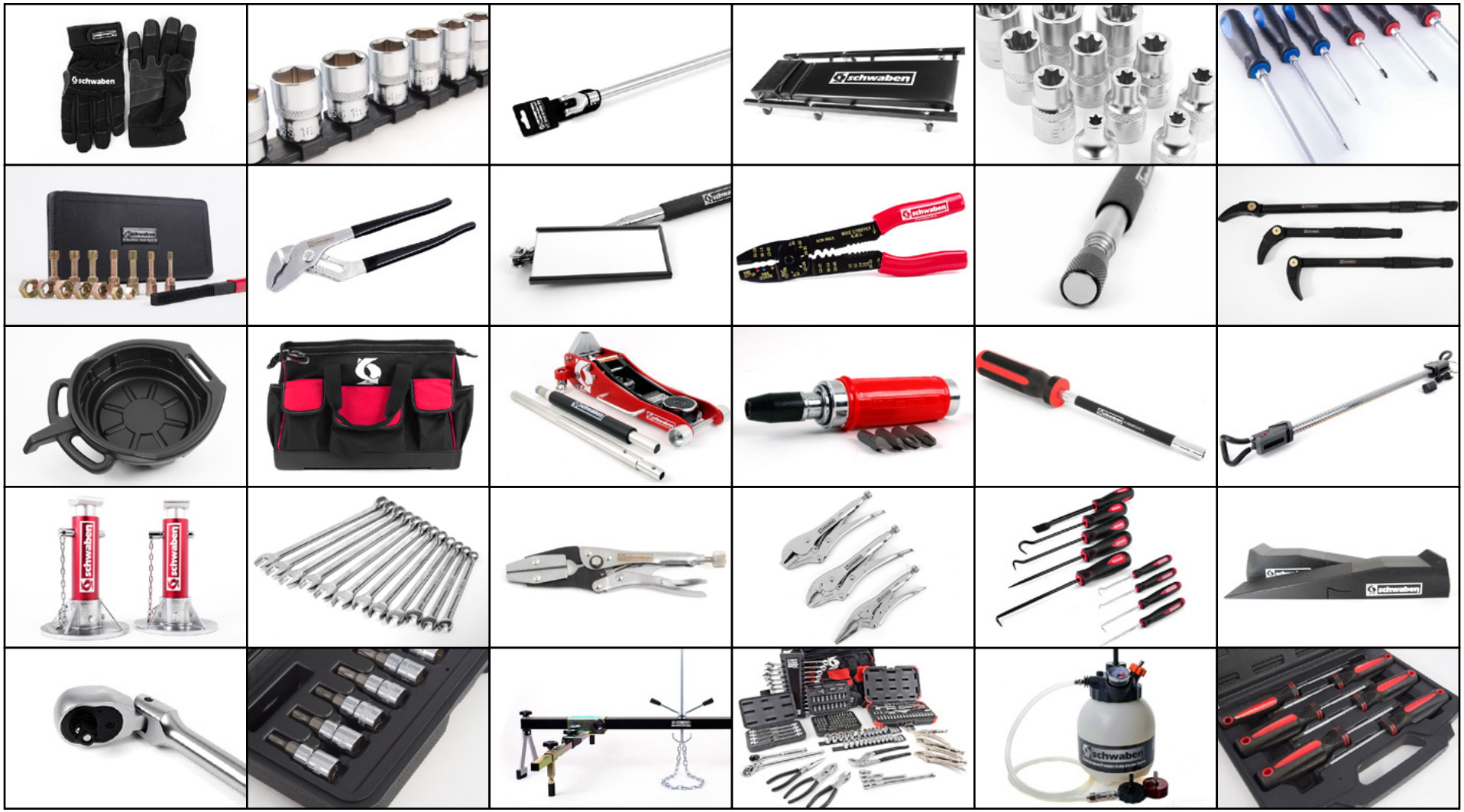
Small surface scratches and light oxidation can be buffed out using the same methods and cautions you would use on the vehicle paint.

Carbon Fiber Cleaning and Care Kit, available at ecstuning.com.

ES#2914954



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Your FSI Carbon Fiber Engine Cover installation is complete!



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