

ECS TUNING

Gen 2 MINI Cooper S/JCW
Kohlefaser Luft-Technik Intake
Installation Instructions



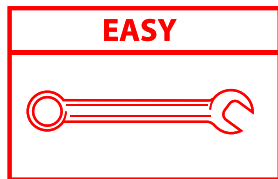
Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times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

INTRODUCTION

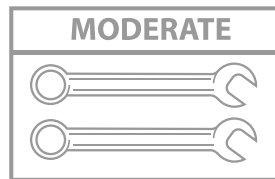
ECS Tuning Gen 2 MINI Cooper S/JCW Carbon Fiber Intake ES#2719002

The ECS Tuning Gen 2 MINI Cooper S/JCW Carbon Fiber Intake offers the following features and benefits:

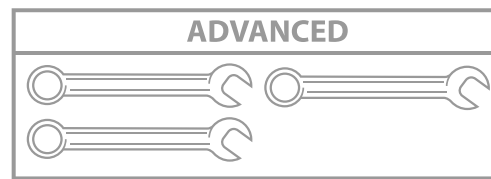
- Hand-laid carbon fiber upper intake box
- Hand-laid carbon fiber lower intake box with integrated lower pipe
- Hand-laid carbon fiber upper intake pipe
- Performance air filter
- ECS Tuning silicone coupler
- All required mounting hardware and clamps
- Dyno proven performance



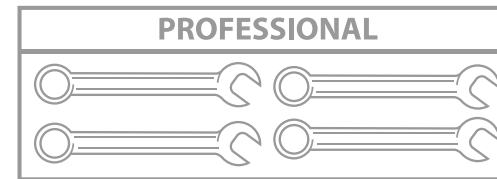
**BASIC SKILLS
REQUIRED**



**SOME EXPERIENCE
RECOMMENDED**



**ADVANCED SKILLS &
EXPERIENCE REQUIRED**



**PROFESSIONAL SKILLS &
SPECIALTY TOOLS REQUIRED**

Installing the ECS Tuning Gen 2 MINI Cooper S/JCW Carbon Fiber Intake is a very short afternoon project that will reward you with performance gains and the beauty of one of our hand-laid laminated carbon fiber intake systems. All required hardware is included with your new intake and it only requires a few simple tools. Thank you for purchasing one of our ECS Tuning Kohlefaser Luft-Technik Intake Systems. We appreciate your business!

TABLE OF CONTENTS

Applications	pg.4
Kit Contents.....	pg.5
Required Tools and Equipment.....	pg.6
Shop Supplies and Materials.....	pg.6
Installation Notes	pg.7
Preparation and Safety.....	pg.7
Removing the Original Airbox.....	pg.8
Installing the new Carbon Fiber Intake	pg.16
Carbon Fiber Cleaning and Care.....	pg.24

CARBON FIBER INTAKE APPLICATIONS



MINI Cooper N14 Engine
Identified by the visible
coil wiring harnesses.



MINI Cooper N18 Engine
Identified by the full cover.

This ECS Tuning Carbon Fiber Intake fits both the N14 Cooper S/JCW engine and the N18 Cooper S/JCW engine on the platforms listed below.

- R56 MINI Cooper S/JCW (2007+)
- R55 MINI Clubman S/JCW (2008+)
- R57 MINI Convertible S/JCW (2009+)
- R58 MINI Coupe S/JCW (2012+)
- R59 MINI Roadster S/JCW (2012+)
- R60 MINI Countryman S/SX/JCW (2011+)
- R61 MINI Paceman S/SX/JCW (2013+)

CARBON FIBER INTAKE KIT CONTENTS



Upper Intake Box



Lower Intake Box with integrated lower pipe



Air Filter with clamp



Silicone Coupler with clamps



Upper Intake Pipe



Intake Box upper pipe seal



M6 Hex head stainless steel screws and nylon washers



Tubing clip (N18 only)

REQUIRED TOOLS

- Flat Blade Screwdriver(s)..... Available at ecstuning.com..... [ES#2225921](#)
- Torx Drivers: T25,T30..... Available at ecstuning.com..... [ES#11417](#)
- 1/4" Drive Ratchet, Extensions
- 1/4" Drive Hex Bit Socket: 3mm
- Needle Nose Pliers



SHOP SUPPLIES AND MATERIALS

- Hand Cleaner/Degreaser..... Available at ecstuning.com..... [ES#2167336](#)
- Shop Rags Available at your local auto parts store
- Aerosol Spray Lubricant/Penetrating Oil..... 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 AIRBOX

Step 1:

Open the hood and locate the connector for the mass air flow sensor (arrow).



Step 2:

Grasp the connector, press down on the locking tab with your thumb (arrow), and pull the connector off the mass air flow sensor.



REMOVING THE ORIGINAL AIRBOX

Step 3:

Pull the evap line out of the clip on the lower intake pipe, located just below the mass air flow sensor slightly towards to drivers side of the vehicle.

NOTE

We are installing this intake on an N14 engine. If you have an N18 engine, there will be an additional clip on the rear of the airbox.



Step 4:

Using a flat blade screwdriver, loosen the clamp holding the upper intake tube to the mass air flow sensor.



REMOVING THE ORIGINAL AIRBOX

Step 5:

Pull the upper intake tube back just until it is disconnected from the mass air flow sensor.



Step 6:

Squeeze the lower intake tube so the retaining tabs (arrows) are pulled inwards, away from the slots in the lower intake pipe, then pull the tube out of the lower pipe.



REMOVING THE ORIGINAL AIRBOX

Step 7:

Using a T25 torx driver, fully loosen the mounting screw on the end of the original air box. This will only require about three to four complete turns. Once you have loosened this screw, it will remain trapped in place in the ear on the lower air box.



Step 8:

Pull up on the RH (passenger) side of the original air box to release the grommet on the end.



REMOVING THE ORIGINAL AIRBOX

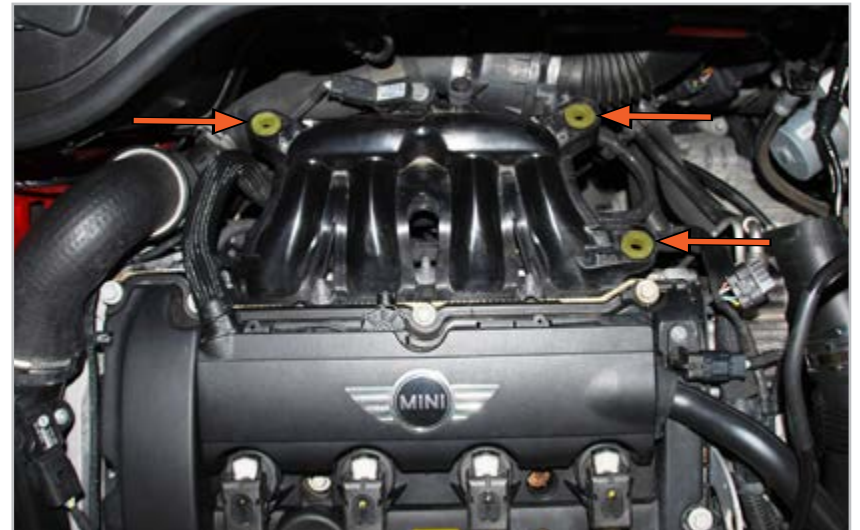
Step 9:

Pull up on the LH side to release the remaining two grommets, pull the intake tube away from the mass air flow sensor, then lift the air box off the engine.



Step 10:

Make sure the three rubber mounting grommets have stayed in place in the intake manifold. If they have stuck to the original air box, pull them off and re-install them into the manifold.



REMOVING THE ORIGINAL AIRBOX

Step 11:

Remove the evap line clip from the end of the original lower intake pipe. Use a pair of needle nose pliers to squeeze the expanding tabs together, then pull the clip out of the intake pipe.



Step 12:

Hold the grommet on the end of the original air box to keep it from turning, then remove the screw using a T25 torx driver.



REMOVING THE ORIGINAL AIRBOX

Step 13:

Pull the center sleeve out of the grommet, then remove the rubber grommet itself from the original air box.



Step 14:

Using a T30 torx driver, remove the two screws holding the mass air flow sensor to the original air box.



REMOVING THE ORIGINAL AIRBOX

Step 15:

Pull the mass air flow sensor out of the original airbox. You may have to twist it back and forth slightly to remove it.



Step 16:

Remove the o-ring from the mass air flow sensor.

NOTE

You will not need the two mass air flow sensor screws or the o-ring for your new carbon fiber air box. Store them with the original airbox in the event you need them in the future.



INSTALLING THE CARBON FIBER INTAKE

Step 1:

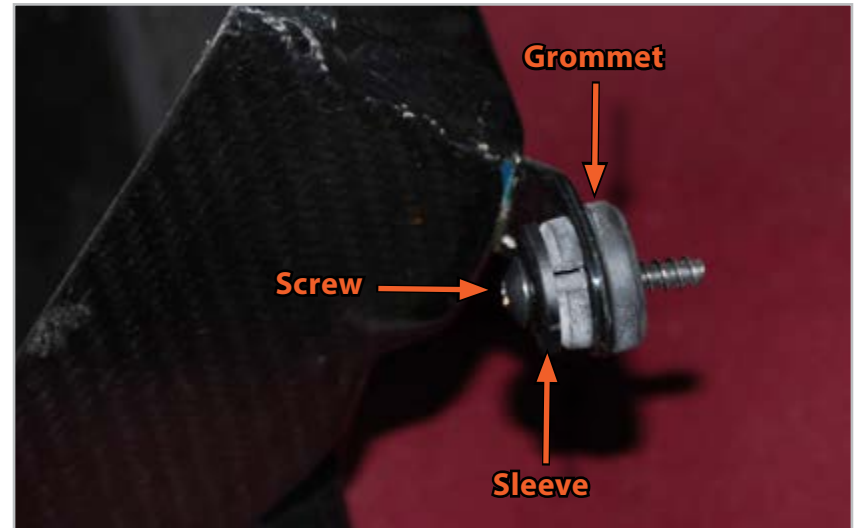
Install the grommet, center sleeve, and screw in the ear on the end of the new carbon fiber lower intake box. Install them in the same way in which you removed them.

CAUTION

Be careful not to nick or cut the surface of the carbon fiber, this could allow water intrusion and damage the carbon fiber.

Step 2:

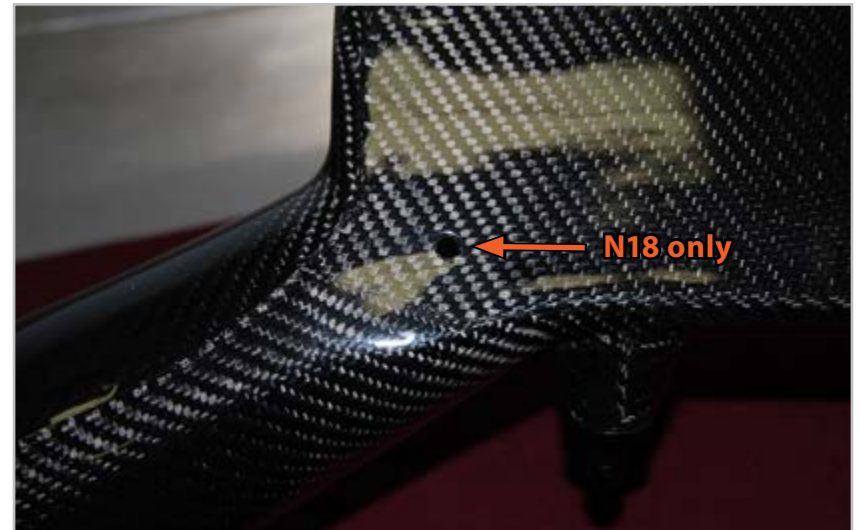
Install the evap line clip (removed on page 13, step 11) into the end of the new carbon fiber integrated lower intake pipe.



INSTALLING THE CARBON FIBER INTAKE

Step 3:

If you have an N18 engine, install the clip (included with the intake kit) into the back of the new lower carbon fiber intake box in the location shown here. If you have an N14 engine, disregard this and continue with step 4.



Step 4:

Position the new carbon fiber lower intake box over the intake manifold and push it into place so it is seated in all three grommets.



INSTALLING THE CARBON FIBER INTAKE

Step 5:

Tighten the T25 torx screw on the end of the lower intake box.



Step 6:

Push the lower intake tube into the integrated lower pipe until the tabs are fully engaged.



INSTALLING THE CARBON FIBER INTAKE

Step 7:

Install the silicone coupler over the end of the mass air flow sensor. Loosely install both hose clamps over the coupler. Note the direction of the arrow on the mass air flow sensor.



Step 8:

Push the mass air flow sensor back into the upper intake tube. Do not tighten the clamp on the mass air flow sensor at this time.



INSTALLING THE CARBON FIBER INTAKE

Step 9:

Install the new carbon fiber upper intake pipe into the air filter. Push the pipe in all the way until it stops against the lip inside the filter. Do not tighten the clamp on the filter at this time.



Step 10:

Install the upper pipe seal over the pipe, and slide it on until it is positioned approximately in the middle.



INSTALLING THE CARBON FIBER INTAKE

Step 11:

Insert the end of the upper intake pipe into the silicone coupler.



Step 12:

Swivel the filter and pipe down into the lower intake box, making sure the edge of the intake box is in the groove of the pipe seal.



INSTALLING THE CARBON FIBER INTAKE

Step 13:

Verify the alignment of the silicone coupler, mass air flow sensor, upper pipe seal, and air filter, then tighten all four hose clamps.

NOTE

Make sure the upper intake tube is in a relaxed position and not under tension before tightening any hose clamps.

CARBON FIBER CAUTION

Be careful not to over tighten the hose clamps. Over tightening can crack the carbon fiber.

Step 14:

Carefully hook the upper intake box into the rear of the lower intake box, then hinge it forward, making sure the groove of the pipe seal is properly aligned, and close the intake box.



INSTALLING THE CARBON FIBER INTAKE

Step 15:

Install a nylon washer onto each M6 hex head screw, then using a 3mm hex bit, install the three upper intake box screws. Tighten all three screws by hand until they are fully seated, then “snug” them just a few extra degrees.

CARBON FIBER CAUTION

Be careful not to over tighten any screws or clamps. Over tightening can crack the carbon fiber.



Step 16:

Connect the mass air flow sensor connector and push the evap line into the clip on the lower intake pipe. If you have an N18 engine, secure the pipe in the rear of the intake box.

Congratulations! Your new MINI Carbon Fiber intake installation is complete and ready for you to enjoy!



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.

Your Gen 2 MINI Cooper S/JCW Kohlefaser Luft-Technik installation is complete!



These instructions are provided as a courtesy by ECS Tuning.

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