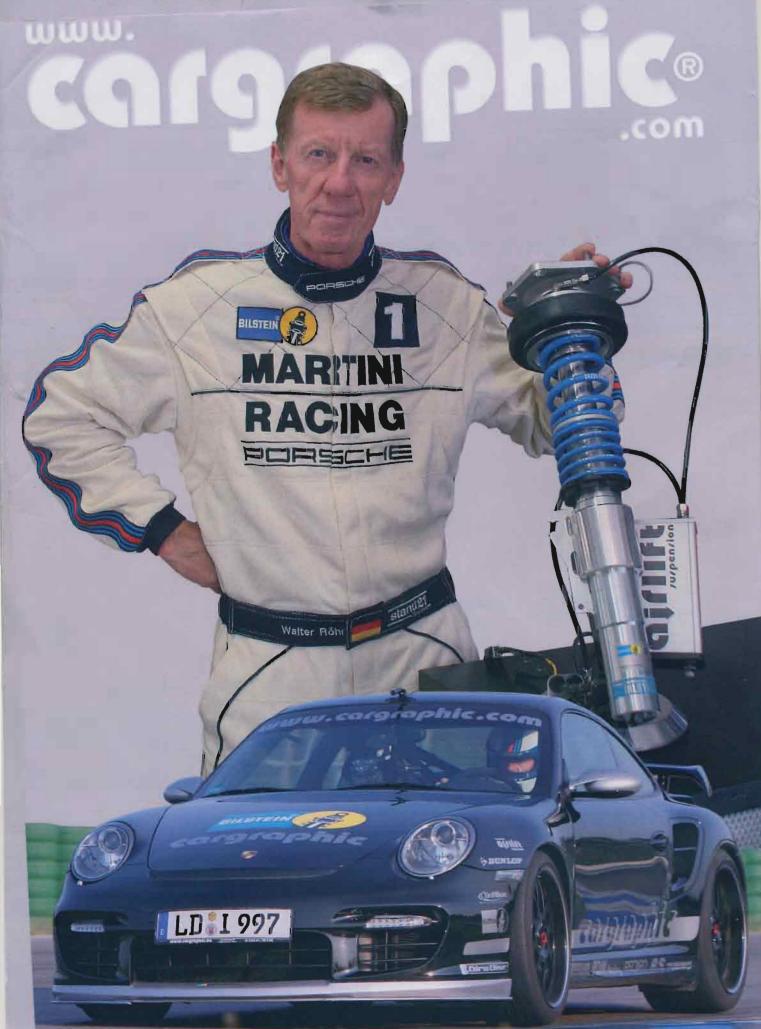


#### 🗮 Installation Manual

# cargraphic Gifffft

**Installation Manual** for Porsche 997 2WD / 4WD / GT2 / GT3



















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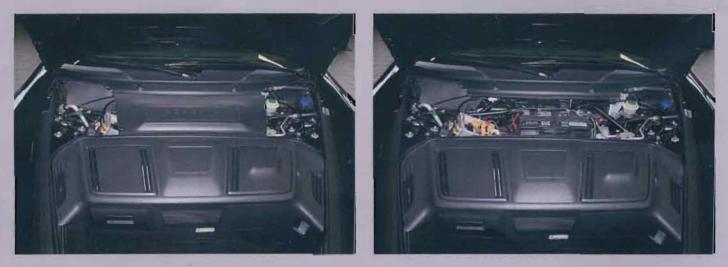
- 1. Removal of the stock strut
- 2. Assembly of the Bilstein strut with the Airlift system
- 3. Installation of the Airlift controller. Connecting the electric and pneumatic lines

Installation/Assembly of the Cargraphic Airlift Suspension:

### 1. Removal of the stock strut

### Warning:

- · Trained professionals should perform all work on a vehicle's suspension.
- · Always secure a lifted vehicle with jack stands
- 1. Remove the three plastic panels shown in the picture: the battery cover and the panels next to it.
- 2. Remove the original strut following the vehicle manufacturer's instructions.



## 2. Assembly of the Airlift and the Bilstein strut:

To assemble the new strut correctly you must use the original strut bearing.

In order to remove your strut bearing from your original strut you must remove the strut's top nut.

## Warning:

- Never use an impact wrench on your strut.
- Always use a proper coil spring compressor.
- Be careful! The coil spring is under heavy load.

Remove the strut bearing from your stock strut.

The springpackage needs to be lowered by loosening the bottom springplatenut and securing nut by:

- GT2 / GT3: approx 13mm
- 2WD: approx 14mm
- 4WD: approx 20mm

# The following parts need to be removed:

- GT2 / GT3: top spring plate
- 2WD: top spring adapter (alloyring/spacer) incl. blue plastic shim. ATTENTION: Should your car be equipped with the rubber insulator 3.0mm thick (Part-No.: 996 343 511 00) it needs to be exchanged/ replaced with the one 6.5mm thick (Part-No.: 996 343 511 01).
- 4WD: top spring adapter (alloyring/spacer conical) incl. blue plastic shim.

The top spring/mainspring needs to sit solid in the Teflon/POM-ring of the airlift.

Please fit your OE top strut bearing on top of the airlift.

Use the proper torque wrench to tighten the top nut.





## Installing the Airlift strut:

Take the provided 3.2mm 90° fitting and bolt it to the 3.2mm thread on top of your Airlift using a small amount of liquid thread sealant.

Use 10lb/ft of torque to secure the fitting.

- The anti-rotation tether is included and attached to your Airlift. (NOT WITH 4WD)
- · Install your Airlift strut following the instructions of the vehicle's manufacturer. Then connect your PCM lines.

# **Histallation Manual**



# Installing the anti-rotation tether: (NOT WITH 4WD)

- Next to the steel tether used to prevent rotation you will find a bolt-hole, which is 9mm in diameter.
- Use the provided M8x20mm bolt and nut to secure the steel line to the bolt-hole. Use the provided washers on top of, and under, the steel line.



# Pneumatic system:

- · Cut 1.4 metres of the provided 6mm airline using the provided airline cutter.
- · Take care when cutting the line
- · Install the airlines, start inside the vehicle and work toward the struts.
- Route the line into the wheel well through the opening next to the strut bearing on the driver's side.
- Route the line in a slight turn towards the Airlift fitting and press the line into the fitting while tightening the nut with a 12mm wrench.
- Take care that the line is firmly pressed in to the fitting.
- Take care that the airline doesn't kink while the strut moves through its steering motion and that the line doesn't touch any parts that could potentially damage it.



# **\*\*** Installation Manual

Cut 1.0 metre of the provided airline and repeat the task on the passenger's side of your vehicle.

- · Connect both airlines to the provided T-fitting close to your battery compartment
- Take care that the airlines have enough slack and aren't strained by connecting them.
- Secure the airlines with the provided laces as shown in these pictures:





Electrical/pneumatic connection of the Airlift controller:



On the left side of your vehicle's battery compartment you will find an 8mm thread. Bolt your Airlift controller to this thread, using the provided mount. Once mounted your controller should be in a tilted position, facing slightly to the driver's side of your vehicle.

Connecting the pneumatic lines to your Airlift controller:

- Connect the Airlift controller to the installed T-fitting. Route 15cm of the provided 6mm airline from the fitting marked:
- "To Airlift," on the controller to the T-fitting that connects the Airlift struts. Secure the airline to the fittings by tightening the brass nuts with a 12mm wrench. Take care that the airline is inserted all the way into the fittings!

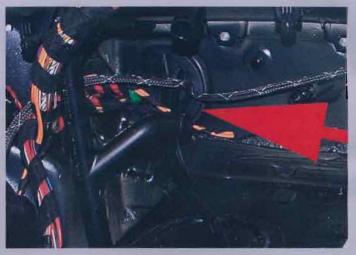
Installing the compressor airline:

- · Remove the front plastic panel in your vehicles luggage compartment as shown.
- Now route 1.4 metres of the provided 6mm airline to your vehicle's compressor.
- · Connect this line to the fitting on your controller marked: "To compressor"

# **Handal** Installation Manual



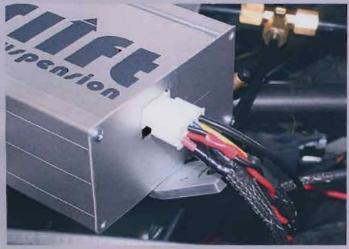




- · The compressor is in your vehicle's tool compartment
- Remove compressor from foam housing
- Remove the compressor's top panel, which hides the compressor's airline and electrical connectors.
- · Pull the compressor airline and the electrical connector 5cm from their compartment.
- Now connect the provided shredder valve to the 6mm airline you just installed.
- Connect the shredder value to the compressor's airline and ensure it is secured properly. The compressor's relief value has to be closed.



## Connecting the controller's electrical system:



#### Warning:

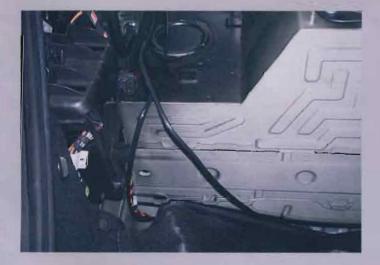
Only trained professionals should work on your vehicle's electrical system!

- Take the provided and pre-assembled wiring kit.
- Plug the electrical connector in to your controller.

Connecting the compressor with the controller:



- Route the cable with the 12v lighter plug from the controller to the compressor close to the already installed airline.
- Connect the 12v plug to the compressor's electrical connector.



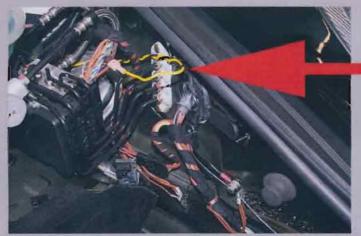
- Make sure the compressor's switch is in the "ON" position.
- Now push the compressor's airline and electrical line back into its compartment on the compressor's housing.
- · Take care the airline does not kink.

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#### Connecting the wheel sensor:



- Route the black/yellow cables into your vehicle's luggage compartment close to the electrical lines you just routed to the compressor.
- Now route the black/yellow cables to your vehicle's ABS controller.
- · Ground the black cable as shown in the picture.
- · Find the ABS controller's wiring.
- Search for the brown/black and green/blue cables, which are twisted together.
- Untwist them. You'll need about 2.5cm of space to connect the provided 3-M connector to the brown/black cable.



Make sure all cables are connected properly!



Providing the controller with a permanent 12 Volt source:



- Route the red and black cables of your wiring kit from the controller to the vehicle's battery
- Connect the red cable to the positive terminal of your battery. The fuse holder on the red cable should be empty when doing so.
- Connect the black cable to the negative terminal of your battery.

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#### Providing the controller with a switched 12 Volt source:

- · Remove the panel covering your vehicles PCM.
- Disconnect the plug marked as A from the PCM
- Connect a 3-m connector to the cable in pin 35.
- · Connect the single blue cable of your Airlift controller's wiring kit to this 3-m connector.
- Reconnect the plug to the PCM



#### Prior to the first test drive we recommend you double-check all airlines and electrical connectors.





#### After checking every connection, proceed:

- · Put your vehicle on the ground
- Plug the provided 20 Amp fuse to the fuse holder on the red cable you just connected to the battery. The system only works with ignition on.
  ATTENTION! The system will only work faultless with a voltage above 10.5 volts.
- Switch your ignition on; the compressor will start to pump until either:
  - it reaches the switch-off pressure of approx. 3.0 bar / 43 psi

or:

- it reaches the time-limit

- Push the right button on your remote: you should hear the air being released from the Airlift. The Airlift will lower the vehicle.
- Push the "left" button on your remote control: you should hear the compressor working. The Airlift will lift the vehicle.
- Additional programmed is a speed related automatic lowering at 50 km/h / 30 mph.

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Reinstall all plastic covers removed from the luggage compartment.

# Warning:

Only pressurize the Airlift when the vehicle is on the ground. Pressurizing the airlift with the vehicle lifted may result in damage.

# Your Airlift is now ready to go!



ATTENTION! THE VEHICLE NEEDS AN AILIGNMENT!

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