

## AL-KO Air Top



### Istruzione di montaggio

#### INSTALLATION INSTRUCTIONS

## Fiat Ducato model X 250

Motorhome on standard chassis:  
part number 1250945

Commercial vehicle or  
Motorhome on special  
(lightweight) chassis:  
part number 1252041

#### Manufacturer

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**Must only be installed on vehicles covered by the FIAT Authorization, and in any case that aren't fitted with an ESP (Electronic Stability Program).**

## 1. Lifting the vehicle

Lift the rear of the vehicle slightly using suitable jacks positioned in the lifting points to guarantee the safety of the operation and to avoid damaging the chassis: you don't have to take all the load off the rear suspension, it's enough to let the wheels down enough to be able to insert the air springs.

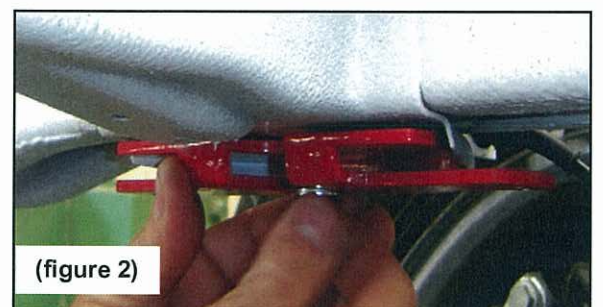
## 2. Fitting the suspension units

Unscrew the end of stroke buffer (figure 1).



(figure 1)

Fit the top support of the AIR TOP (figure 2) in its place using the M10 x 1.25 x 25 screw and the flat washer supplied (torque down to 53 Nm) applying thread locking compound.

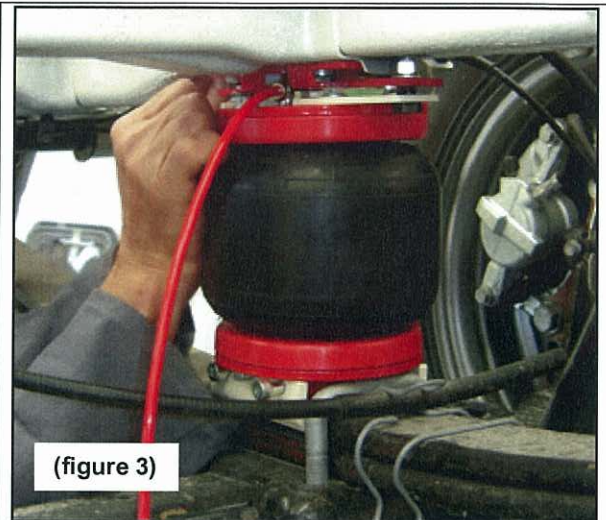


(figure 2)

Position the pneumatic suspension correctly (red hose on the right, black hose on the left) so the bottom part rests exactly on the galvanized plate between the two U-bolts of the leaf springs (figure 3).

The two parts of the clamp must clamp onto the protuberances of the above plate when the two round-headed M8 screws are screwed down (torque down to 27 Nm); this guarantees the correct positioning and fixing of the bottom part of the suspension.

The top part is fixed to the support that was previously mounted with the two M10 x 1.25 x 25 bolts, with the screw inserted from the bottom and the nut on top. (torque down to 53 Nm).



### 3. Installing the hoses

Fix the red and black connecting hoses along the underbody with the PVC clips supplied, keeping the hoses away from the exhaust pipe and any moving parts.

To cut the hoses to length before inserting them in the fittings of the inflation control unit, use the relevant blade (Stanley knife type) to obtain a perfectly perpendicular cut and avoid deforming the hose or creating grooves at the end, which could cause pressure leaks.

### 4. Installing the control unit

We recommend installing the inflation control unit in a position where it is easy to reach so it is easy to check and reset the pressures of the suspension units, but also in a place where it is protected from accidental knocks. The envisaged position is on the panel of the base of the driver's seat, under the parking brake lever. In this case the hoses can be fed into the driver's cab through the existing hole for the parking brake cable. One of the two fittings for the hoses has a red reference mark to show which way they should be connected.

## 5. Determining the inflation pressures

Lower the vehicle and find the ideal pressure for the suspension units to guarantee the best setup. The established pressures must be indicated in the User's Manual given to the customer; the same must also indicate the date of installation, and the stamp and signature of the installer, to confirm the correct execution of the installation work.

The pressures normally used (by way of reference) vary as follows:

- for campers from a minimum of 1.5 to a maximum of 3.0 bar (to decide which is most appropriate in each case)
- for commercial vehicles from 1.0 to 2.0 bar (the maximum working pressure is limited to 2 bar)

The pressure difference between one side and other, which may be used to compensate a difference in weight between right and left, must never be greater than 0.7 bar.

## 6. Checks after installation

Motorhome on standard chassis	Commercial vehicle or Motorhome on special (lightweight) chassis
<p>a) Carry out a road test on the vehicle, assessing the suspension set up and braking performance.</p> <p>b) Inflate the whole suspension system to 5 bar (right and left side) leaving the vehicle standing for some hours. Check there are no pressure leaks.</p>	<p>a) Carry out a road test on the vehicle, assessing the suspension set up and braking performance.</p> <p>b) Inflate the whole suspension system (right and left side) to the maximum pressure envisaged for the limited control unit (2 bar) leaving the vehicle standing for some hours. Check there are no pressure leaks.</p>

## 7. Release

Reset the pressures to the values established by the installer and note them in the User's manual.

Consign the vehicle to the customer with the User's Manual.

### Torque wrench settings for fixing bolts (from ISO table)

M6x1	10 Nm	M10x1.5	50 Nm
M8x1	27 Nm	M12x1.75	86 Nm