fabio®
Air Springs


# Air Springs Warranty Guide


# What effects air springs?

**1** It will good to know that air springs are related to some facts. For example: it is directly related with other suspension items such as bushings, shock absorbers, levelling valves and regulators. Levelling valves have a huge part related to suspension system. You must be sure that it is working well if it is not must be replaced immediately. Also shock absorbers must work properly, you must check for any leaking hydraulic oil and rusted or broken end connectors. Shock absorbers are the helpers of air springs and avoids them from overextending.

**2** Although all air springs are presented to customers after several tests at factory, we are receiving claims caused by other problems relevant with suspension. When replacing a new air spring, you should search and know what caused failure for the old one. If something went wrong with the suspension system for other parts then the new air spring will also not work properly.

**3** The riding height is also important. All vehicles have different specified ride height according to O.E.M manufacturers. You must consider for this value provided by manufacturers. Also it must be calculated while the vehicle loaded or empty.

**4** The tightening is also have an important role for air springs. While tightening the bolts and nuts you must avoid from over-tighten. Please follow for the manufacturers specifications.

**Caution:** The failures pattered described below are not caused by a production or material failure.

# Breakaway Between the Linkup Of **Plate and Rubber**

## What may cause this appearance?

- *High Pressure*
- *Damaged in pressurized position*
- *Decrepit bushings*
- *Unsuitable suspension assemble*

# Breakaway On
# Diagonal Beam

## What may cause this appearance?

- *Overloaded vehicle*
- *Broken shock absorber*
- *Ruined valves*
- *Pressure regulator set too low*
- *Wrong air spring*

# Attrition On Air Springs Surface

## What may cause this appearance?

- *Contacting with chassis parts*
- *Decrepit bushings Misconfiguration*
- *Loose air line*
- *Broken shock absorbers*
- *No air pressure*
- *Material that hits the air spring from outside*
- *Wrong air spring*
- *Oversized tire contact*
- *Snow chain contact*

# Breakaway Between **Fitting and Plate**

## What may cause this appearance?

- *Over tightening torque*
- *Oil or grease applied to thread*


# Broken Shaft
# and Deformed Piston

## What may cause this appearance?

- *Overloaded vehicle*
- *Exceedibg the loading capacity*
- *Over tightening*
- *Unsuitable Suspension assemble*

# Bursting and Piston **Broken**

## What may cause this appearance?

- *Overloaded vehicle*
- *Exceeding the pressure*

# Fissured
# Air Spring Surface

## What may cause this appearance?

- *Be subject of high temperature*
- *Old air spring*

# Deformed
# Air Springs

## What may cause this appearance?

- *Inconvenient storage*
- *Inconvenient transportation*
- *Inconvenient handling*

# Breakaway of Ring From Rubber and Rubber Deformation

## What may cause this appearance?

- *Overloaded vehicle*
- *Over pressure*
- *Assemble height is too low*

# Deformed Plate

## What may cause this appearance?

- *Overloaded vehicle*
- *Unsuitable suspension assemble*
- *Wrong air spring*
- *Broken shock absorbers*

# Bellows Explosion
# Air Springs

## What may cause this appearance?

- *Overloaded vehicle*
- *Exceeding the loading capacity*
- *Unsuitable suspension assemble*

# Air Spring
# Technical Data

| Part Number | Description | Ride Height | Min/Max Air Pressure | Max Load @7bar (per pair) |
|---|---|---|---|---|
| 1SC-220-4C | Single Convoluted | 110 mm | 1-8 bar | 12 KN |
| 2DC-220-4C | Double Convoluted | 215 mm | 1-8 bar | 13,75 KN |
| 2DC-360-1C | Double Convoluted | 260 mm | 1-8 bar | 44,5 KN |
| 3DC-310-1C | Triple Convoluted | 260 mm | 1-8 bar | 39,6 KN |
| 346120-CPL | Complated Air Spring | 280 mm | 1-7 bar | 31,4 KN |
| 344022-6CPL | Complated Air Spring | 351 mm | 1-7 bar | 29,6 KN |
| 344157-8CPL | Complated Air Spring | 330 mm | 1-7 bar | 29,1 KN |
| 34644-5C | Complated Air Spring | 275 mm | 1-7 bar | 27,7 KN |
| 945456-C | Cabin Air Spring | 270 mm | 1-7 bar | 2,08 kN |
| 945252-C | Cabin Air Spring | 247 mm | 1-7 bar | 2,75 kN |
| 946017-S | Air Bellow, Seat | 52 mm | 1-7 bar | 3,58 kN |