

**INSTRUCTIONS FOR "AIR OIL" FOURNALES SHOCK ABSORBERS**

13/5/2016  
 km 220-948

BRAND MOTORCYCLE: BMW MODEL: R 100 YEAR MODEL: .....  
 PART NUMBER PRODUCT: MA010014 PRESSURE: 12 Bars

**ASSEMBLING**

**REMARK:** Shocks absorbers are delivered pressurized and ready to be installed.  
**IMPORTANT:** News or rebuilt shocks absorbers by our service (only Single and Twin Magnum) are delivered with a pressure 10 % over to the basic pressure indicated on our catalogs and on the document supplied during the delivery of the product. Of this fact the level of the motorcycle immediately after the fitting, before having run will be slightly higher than the normal. After a rolling of about ten kilometers the normal level will be found.  
 A/ To make sure that the motorcycle is on a plane surface and solid surface so as to be able to prop up this one so that the back wheel does not touch the ground, to make sure more that the swing arm is free of any movements. If the motorcycle is equipped with it, to use the central stand.  
 B/ Keep out single one or twin shock absorbers of OEM.  
 C/ Start to fit the single or twin FOURNALES shockers by taking care of positioning the valve of inflating always at the top and by making sure that nothing hinders its functioning.  
 Refer to the manual user of the brand of your motorcycle to respect the couples of tightening.  
 This installation must be easily executed, in case of difficulties do not hesitate to contact your retailer or the FOURNALES company directly.  
**IMPORTANT: AN INCORRECT FITTING CAN PROVIDE PHYSICAL & TECHNICAL DAMAGES.**

**REMINERS ON THE NOTION OF SUSPENSION:**

On a classic "suspension-shock absorber", collectively called "shock absorber", the suspension is assured by a steel spring. On the Fournales damper the suspension is assured by an internal volume of gas in pressure air or nitrogen. The initial inflation pressure determines the steepness of the suspension and the level of the motorcycle. According to the load and to the use, these can be easily modified by simple inflating. This inflating is made via an accessible air valve, with a high-pressure pump ( HP ) or by a bottle of nitrogen or air under pressure.  
 By increasing the pressure, we increase the steepness of the spring, by decreasing it, we decrease the steepness.

**METHOD TO DETERMINE THE ADJUSTMENT OF PRESSURE:**

Shocks absorbers are delivered adjusted in pressure for a use mixed solo / duet normal for a specific pressure studied and validated by tests for every motorcycle. This pressure is indicated on our catalog for every motorcycle, it is also notified on the document which is in the box of the Fournales with the part number serial model. It is not necessary in priori to modify the pressure or check it upon receipt of the product.

A modification of the pressure fear to be necessary in the following cases, the level of the abnormal motorcycle in charge of:

- If the level is low it is necessary to increase the pressure
- If the plate of the motorcycle is too high it is necessary to decrease the pressure

The empirical pressure adjustment of a satisfaction pressure consists in measuring a sinking enter 1/4 and 1/3 of the total travel with the rider + passengr + bagages.

**METHOD OF INFLATING:**

- The inflating is made with one of our 3 special air pumps equipped with a manometer and provided either with a quick connect, like typical fast connect on automobile air pump, or of a screw connect.
- Before making the connection of the air pump, the back wheel of your motorcycle must not touch the ground or without load on the dampers, so that the dampers must be on free load on. Your motorcycle has to be support by its central stand, or maintained in balance on the side stand.
- Connection of the tip of pump:
  - a) Tip with quick connect:
    - Press on the lever
    - Push the tip at most and release the lever
    - Possibly screw of 1/4 of tour if the waterproofness is not completed
  - b) Tip to be screwed:
    - Present the tip in the same axis as that of the valve
    - Screw until sound with low pressure

**Remarks:**

When the connection "pump-air valve" is established, a part of the gas under pressure contents in the damper transfers towards the pump so putting it under pressure.  
**Don't considerate the pressure indicated by the manometer, pressure is lower than the one who was in the damper before the connection. So you can't really check the pressure by connecting the pump to the shock absorber.**

**INFLATING**

The connection seals of the air pump being established, to make the inflating until the wished pressure read on the manometer. When the needle of the manometer is stabilized, to remove the tip:

- a) rapidly for the tip with quick connect by pressing on the lever of the vconnect
- b) by unscrewed for the tip with the screw connect

The quantity of air which escapes at the time of the disconnection (more or less important according to the model of pump HP) are the one contents in the flexible hose of the pump: the pressure contained in the shock absorber is the one read on the manometer just before the disconnection of the flexible hose. The possible evaporation of oil which occurs during the disconnection is completely normal.

**CONDITIONS OF GUARANTEES**

FOURNALES shocks absorbers are guaranteed against any defect of material and/or hand of work during a duration of 24 months as from the date of purchase by the first user / buyer for all the products intended for a common said road use. (Excepted point 1, 2 and 3).  
 1/ Products for use competition, speed and off road are conceived for extreme uses, for that reason only the manufacturing defects of the manufactured parts, are guaranteed over 3 months. We do not guarantee the use which we cannot control. As a consequence the user has to assume his full responsibility for the personal, material risks, and for the third person who would be implied. Seals and sliding tubes are not guaranteed for deterioration and impacts.  
 2/ Products for 4X4 are subjected to extreme constraints of functioning, we guarantee the manufacturing of our parts manufactured on 12 months. Any outside crash, bad fitting or bad use will cancel any guarantee. Seals and sliding tubes are not guaranteed for deterioration and impacts.  
 3) The specific industrial products do not contain guarantees.  
 The guarantee is taken care by FOURNALES SUSPENSION via a distributor or a retailer approved only with our agreement, or directly with us for precise cases (consult us) under the condition that the concerned shock absorber is new in the day of the purchase date. The Invoice or any other proofs of purchase is required for any return. A repair service under guarantee (for these 24 months) does not modify and does not extend the period of 24 months for a new product.  
 Every product new or rebuilt is engraved then registered before delivery to insure the follow-up. However the guarantee will not be applicable on any product taken out of the factory over four years before the request of taking in guarantee.  
 All the products rebuilt by our services, from ours repair services, are guarantee 12 months (Excepted points 1, 2 and 3).

**During the warranty period, FOURNALES SUSPENSION will repair all produced product exclusively on the following conditions:**

- \* The dismantling and the reassembly on the machine are responsible for the customer.
- \* The return to us is in load and under the responsibility of the customer.
- \* Any goods returned carriage forward will systematically be refused.
- \* A product must have returned to us with all the information concerning it.
- \* The parts of wears such as seals, sleeves, washers, slices are guaranteed 6 months for a new product
- \* For any return the damper / product must be accompanied with the documentary evidence of purchase.
- \* The damper was the object of no dismantling, or modification.
- \* The damper was not used for a use different from the one for which it was studied; the damper is planned for a specific one vehicle, it does not be fitte on other one vehicle.
- \* The product was not used for a custom / race use like competition.
- \* The product, in the opinion of FOURNALES SUSPENSION, was not damaged by an accident, a bad use, a maintenance or a modification not made by the manufacturer.
- \* The change of oil by a not corresponding oil.
- \* For any accepted guarantee, the return will make postage-paid in normal shipping.
- \* It is deeply recommended to use one of the pumps high pressure FOURNALES adapted to the shock absorber to adjust the hardness of the pneumatic spring by modification of the inflation pressure.