



# THEOBEN & WEIHRACH HW90 GAS RAM PUMP

**For use on Gas Ram powered air rifles to adjust or correct the power output.**

**PLEASE USE IN CONJUNCTION WITH A QUALITY CHRONOGRAPH  
TO COMPLY WITH YOUR COUNTRIES POWER LEVEL SETTINGS.**

## INSTRUCTIONS

### **KIT CONTENTS:**

- One 'Slim Jim' Side Lever Hand Pump.
- One 450mm Microbore Hose fitted with Female Quick Detach Connector.
- One BEST Fittings 2 Part Gas Ram Hose Adaptor with Male Quick Detach Connector.
- 4 x 'O' rings in 2 sizes for "best fit".

For your convenience the Gas Ram Adaptor can be connected to the gun without connecting the pump hose. This allows for disconnection of the hose with the adaptor still in place when carrying out interim power checking.

### **OPERATING INSTRUCTIONS:**

- Find a suitable working area free of dirt and clutter and bring to hand the tools required to complete the job.
- Ensure that the rifle is unloaded.
- Unscrew the slotted screw at the rear of the action (where fitted).
- Screw on the Gas Ram Adaptor finger tight, making a seal with the 'O' ring around the small thread of the adaptor. Most guns will require the use of the adaptor in its complete form, with both parts screwed together. Make sure that there is a sealing 'O' ring between both parts. Only guns produced before 1998 are likely to require the short configuration.
- Connect the hose to the side lever pump and tighten the fitting with a 14mm (9/16") spanner (wrench).
- Now the hose can be connected to the Gas Ram Adaptor via the snap connector.
- Eight to twelve brisk strokes of the pump are required to pressurise the hose, as this is fitted with a one way valve. This is necessary due to the high pressures involved. Some models run with around 700 psi (48 bar) others require 1000 psi (69 bar).
- After twenty to twenty-five pump strokes, check the rifle on a good quality and reliable chronograph to avoid over pressurising the rifle. If this is ignored the piston crown may burn out or other internal damage may occur and consequently the rifle would need to be returned to the factory for service and or repair. See BEST Fittings Ltd disclaimer below.
- On completion of the adjustments re-assemble any parts and replace any cover caps etc. and check all screws for tightness before returning the gun to active use.

### **BEST FITTINGS LTD DISCLAIMER**

**ALL ADJUSTMENTS ARE AT THE OWNERS RISK. NO LIABILITY OF ANY KIND IS ACCEPTED BY BEST FITTINGS LTD FOR THE USE OF THIS EQUIPMENT OR FOLLOWING ANY OF THESE INSTRUCTIONS.**

# THEOBEN & WEIHRAUCH HW90 GAS RAM PUMP

## IMPORTANT INFORMATION

The pump has been developed to change the power of all Theoben break barrel and underlever air rifles marked with H.E. or any updated Theoben rifles fitted with the H.E. system. This can be found by checking if the rear of the rifles action (main body chamber) is made of steel (H.E.) or with PVC as per previous models. All Theoben break barrel and underlever air rifles produced since 1990 will be fitted with the Theoben H.E. system.

The BEST Fittings pump kit comes with a 2 part Gas Ram Adaptor, which, when screwed together, fits the Weihrauch HW90 and Theoben rifles made since 1998. Most older rifles will use just the short main part of the adaptor.

The pump is not designed to take a 12ft/lbs rifle to, for example, 18ft/lbs or more. This high power is only achieved by factory components which are only available for export, or for holders of a current Fire Arms Certificate (FAC).

**WARNING:** The pump is for fine tuning or filling a rifle from empty after a strip down. The manufacturer will not accept responsibility if the rifle is taken over the legal limit of the country in which the rifle is kept or used. In the UK, the legal limit is 12ft/lbs. A firearms certificate, with the rifle listed on it, is required for (air) rifles making over this power. For more information on Fire Arms Laws or applying for a certificate contact your local Police or Firearms Officer.

This pump is not capable of pumping up pre-charged pneumatic i.e. Rapid buddy bottles.

Less expensive and barrel fitted chronographs have been found to be less reliable and may give inaccurate readings.