



## WEIRAUCH HW100 QUICK FILL UPGRADE KIT

**For use on early HW100 pre-charged air rifles without a probe fill.**

**PLEASE THOROUGHLY FAMILIARISE YOURSELF WITH THE FITTING PROCEDURE.  
FAILURE TO FOLLOW THE FITTING INSTRUCTIONS COULD RESULT IN DAMAGE TO THE UNIT  
AND THE POSSIBILITY OF SUSTAINING PERSONAL INJURY**

### INSTALLATION AND OPERATING INSTRUCTIONS

#### KIT CONTENTS:

- One BEST Fittings HW100 Quick Fill adaptor. The unit comprises of a main body with a rotating collar fitted with a stainless steel high pressure fill valve.
- One black coloured push on valve cover.
- One female fill coupling.
- One steel drive pin used for mounting and demounting the unit.
- A quantity of spare O rings.
- Silencer spacer ring, for use if the silencer body touches the end of the air reservoir.

#### INSTALLATION INSTRUCTIONS:

##### **Important Note:**

Please do not dismantle the assembly unnecessarily as damage to the internal O rings could occur. Should you need to change the O rings the silicone grease enclosed should be used on re-assembly. The collar should then be slid on slowly, without rotating, to allow the O rings to seat properly in their grooves.

1. Find a suitable working area free of dirt and clutter and bring to hand the tools required to complete the job.
2. Ensure that the rifle is unloaded and remove the air reservoir from the action in the normal way.
3. Remove the action from the stock by removing the two hex head screws from underneath. One just below the main action block, the other holding the barrel band in position.
4. It is recommended that the air reservoir is completely emptied of air prior to installation of the quick fill unit, as this helps with aligning the fill valve on initial installation. To empty the reservoir, slowly screw the fill adaptor that came with the rifle onto the reservoir until you hear air escaping. Allow the reservoir to empty SLOWLY in a controlled manner. The reservoir will cool down during this process, and is completely normal. Allow to stand for a few minutes to regain room temperature.
5. Fit a new small O ring, enclosed, onto the valve actuating pip inside the reservoir port.
6. Take the assembled quick fill adaptor and locate the male thread into the reservoir port on the action. It only needs to just engage, as the air reservoir tube will be used to screw the unit on. You may need to rotate the collar a small amount to allow it to pick up the thread. To do this, insert the drive pin, supplied with the kit, into the small vent hole in the side of the body.

7. You can now turn the unit by pushing against the drive pin with your thumb. The fill valve will rotate and stop against the barrel. Do not worry about the valve position at this point, as it can be re-aligned as necessary later in the fitting procedure.
8. Now feed the reservoir through the barrel band and locate it in the female thread of the quick fill adaptor. Screw the reservoir slowly into the adaptor and as it fully seats it will start to drive the adaptor into the action. The fill valve will rotate and come to rest against the right hand side of barrel. You will feel an increase in resistance as the centre of the adaptor has to rotate within the collar on the internal O rings. Continue to SLOWLY screw the assembly fully home into the action. Failure to observe this procedure could result in the O rings being forced out of position within the unit, and the unit could leak.
9. Once the unit is fully screwed in, there may be a very small gap 0.5 – 0.75 mm between the adaptor and the air reservoir, the adaptor and the action or both. This does not constitute a problem and will not affect the unit in any way. One of the spare O rings can be rolled over the gap to prevent any unwanted water or dust getting in. (Requires temporarily unscrewing the reservoir from the fill adaptor to stretch the O ring onto the reservoir body.)
10. Now you can position the fill valve on whichever side of the barrel you prefer. Rotate the collar SLOWLY with gentle pressure applied to the side of the fill valve. If you are going to have the fill valve pointing down, (requires drilling of the stock), then you can position it correctly at this point.
11. Now stretch one of the spare middle sized O rings over the gauge end of the reservoir tube and roll it along to the barrel band. This can then be pressed into the space between the barrel band and the reservoir body with a piece of stiff card. This will keep the reservoir from rattling, as the barrel band will now not locate over the enlarged section of the reservoir.
12. Now the action, complete with the air reservoir installed, can be fixed back into the stock and any adjustments to the fill valve position made.
13. It is not possible to rotate the fill valve collar after pressurisation of the action. If adjustments to the valve position are required, first de-pressurise the action by slowly unscrewing the reservoir a couple of turns, then dry fire the gun to remove any remaining air pressure. The collar can then be rotated as required.
14. **WARNING** Remove the fill valve cover cap before installing a charged cylinder into the unit, failure to observe this procedure could result in eye injury from the cap being ejected from the fill valve.
15. If required, install the silencer spacer ring on the muzzle thread to provide clearance.

#### REMOVAL INSTRUCTIONS:

1. Remove the air reservoir in the normal way.
2. Remove the action from the stock.
3. Slacken the main body unit from the action using the supplied drive pin inserted into one of the holes on the flange and turning in an anti clockwise direction. It may be quite tight if the unit has been over tightened using the air reservoir, but it should release with firm pressure from your thumb.
4. Continue to rotate the centre part of the fitting using the drive pin whilst allowing the fill nipple on the collar to rest against the barrel. You may need to reposition the drive pin in the other hole to complete the removal procedure.
5. Once the unit comes free, the original air reservoir can be re-installed as it was before the unit was fitted.

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