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## Service Instructions for HM and HMx Rifles

This service sheet is for all Models, Service kits purchased have enough "O" rings for 2 services, please read all instructions before starting.

1. Make sure the rifle is not loaded and there is nothing in the barrel, remove the magazine and bottle by unscrewing.
2. Remove the large stock bolt using a 3/16 or 5/32 allen key, and remove the stock.
3. Pull the Aluminum Quick fill block forward and away from the Stainless steel inlet adapter or regulator, be careful as there is a shuttle valve and spring inside, remove inlet adapter or regulator, **use caution** as if it is regulated there might be pressure behind, to remove any regulated air it might be necessary to dry fire the rifle once for large caliber or twice for smaller cal rifles but no more as continued dry firing will bend the valve stem. (we would recommend doing this step when the rifle has been shot down well below its normal refill level, then it should already be below the regulated pressure and the rifle will empty when the bottle is removed)
4. Remove the stainless steel valve blanking screw using a 5mm allen key, this is located just below the barrel.
5. Remove the valve location screw, located on the right hand side of the action just below the magazine loading slot, use a 2.5mm key.
6. Now the valve can be removed with the stem, if it does not pull out from the front you will have to remove by pushing from the hammer end, it is possible to dry fire the rifle which will eject the valve, **use caution as it can come out fast and cause injury**. place a towel over the hole, once dry fired you will need to remove the trigger, remove the 2 pins holding it in place, the pins are 3mm, a 1/8 parallel punch is too big and will get stuck, use a 3/32 or 2.5mm pin punch ( removing the trigger is necessary as the overtravel of removing the valve will allow the hammer to end up on the wrong side of the trigger sear and everything will lock up.
7. Using the "O" rings supplied replace all seals and wipe a small amount of Moly based grease around the seals or dry is acceptable and replace in reverse order, if you have purchased a new valve and stem simply fit this in replacement of your old parts. (do not use silicon grease as it can migrate to threaded parts and seize them up)

The Valve must be orientated with the valve port facing upwards, only then will you be able to put the small valve location screw in place, if you are unsure about its orientation, remove the barrel using the three screws on the top of the block, look down the first hole and you should see the stem, when replacing the barrel you will have to align the transfer port before tightening the barrel in place, there is a small location mark that should be placed in the center of the hole facing upwards, first screw down the center screw before doing the others.

The trigger would be replaced after everything else, put the back pin in first, then rotate the unit up to allow the second pin to be installed, when filling the rifle for the first time, cock the rifle to take any force away from the valve and this will allow it to close and fill, otherwise the air will rush out down the barrel.