

KEG SPEAR MAINTENANCE

A-SYSTEM

RS-AS WITH HOLE



DEDICATED TO
DRAFT QUALITY

DISMOUNTING, SERVICING, LEAK TESTING AND MOUNTING

A - SYSTEM – RS-AS

TOOLS USED

| Dismounting: | Servicing: | Leak Testing: | Mounting: |
|---------------------|-------------------|----------------------|------------------|
| 941-012 | 941-903 | 940-036 | 940-049 |
| 941-031 | 941-098 | | 941-031 |
| | | | 941-039 |
| | | | 941-054 |

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DISMOUNTING



Due to the integrated safety features the Micro Matic safety spears cannot eject from the keg.

Nevertheless the keg **must always** be fully depressurised before any work is carried out or removal is attempted.

Use tool No. 940-012



The Micro Matic de-compression tool **No. 940-012** locates over the spear flange. Downward pressure on the handle will fully depressurise the keg - safely and cleanly.



Press down the handle until the keg has been fully degassed.

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Fig. 4



Screw out the spear.

Fig. 5



Check that the spear is "raised" in the neck.

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Fig. 6



Place tool **No. 941-031** in the middle of the spear and press down until it clicks. The tool has now caught the beer valve top.

Fig. 7



By hand hold the body and turn tool **No. 941-031** carefully without use of force clockwise until the tool and thus the tube can freely move through the flange part.

Fig. 8



Lift body upwards around the tool. Now the spear can be angled out of the neck without use of force.

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Fig. 9



Engage body in the bayonet locks by turning it clockwise.

Release handle and the spear has been reassembled.

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SERVICING – DISASSEMBLY



Moist the new genuine gaskets in water.



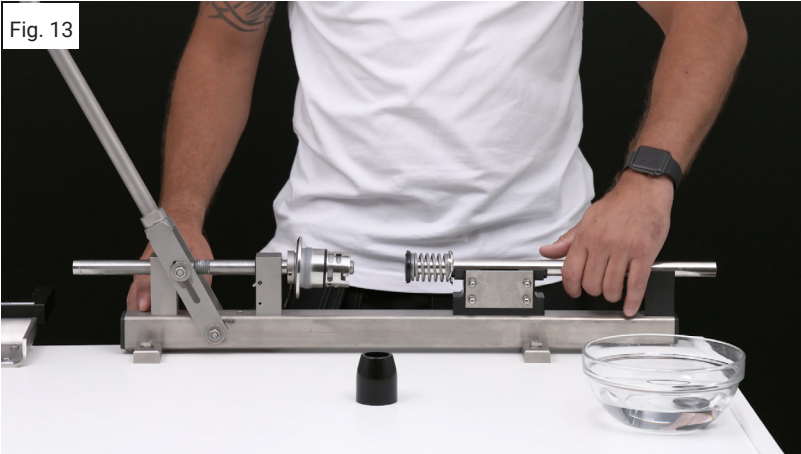
Place the spear in tool **No. 941-903**.



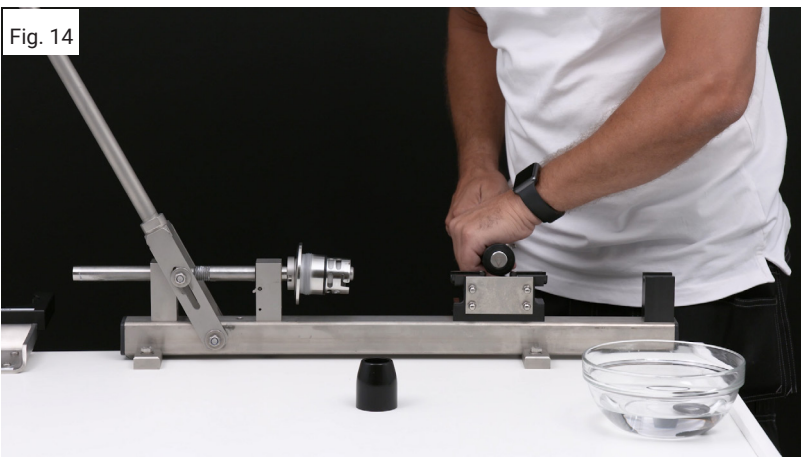
Maintaining firm lever pressure, twist the valve body to disengage the three bayonet locks.

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Place valve body onto the piston and release the lever.



Place the down tube in the "U" section of the bench tool.



It's important that the main gasket and the washer are positioned on opposing sides of the "U" section".

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Fig. 16



Pull the down tube upwards until the gasket and the washer is released.

Fig. 17

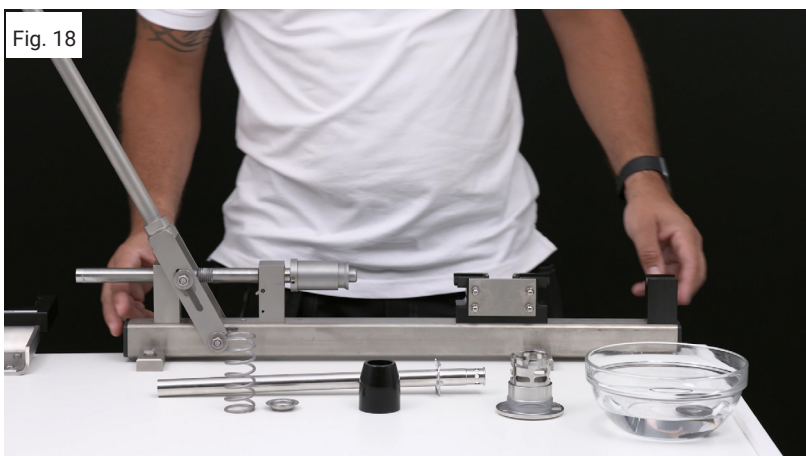


Remove the gasket from the valve body.
Discard the gasket together with the CO₂ valve.

Micro Matic recommends that all the spare metal parts are cleaned in detergents containing acid (HNO₃) and caustic (NaOH).

Please **never** re-use the rubber gaskets. Always replace it with genuine parts.

Fig. 18



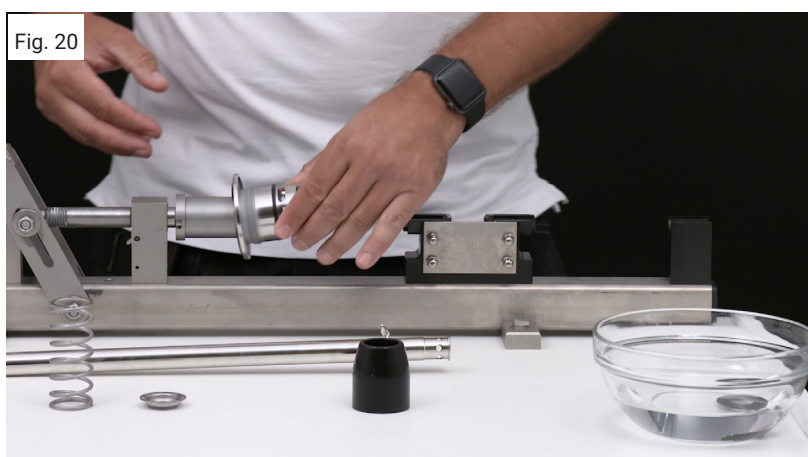
Check the rest of the parts for damages and replace if necessary.

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SERVICING – ASSEMBLY



Place tool **No. 941-098** on the body valve and mount the wet gasket onto the valve body.



Check that the gasket is placed correctly and place the valve body onto the piston.



Take the wet new CO₂ gasket and place it on the piston together with the washer.

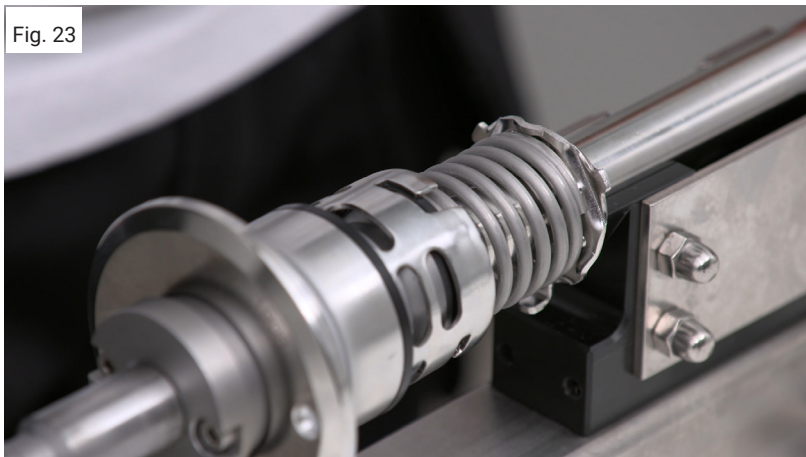
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Fig. 22



Place the down tube into the groove and place the spring correctly according to the hygienic spots.

Fig. 23



Pull the lever towards the down tube.

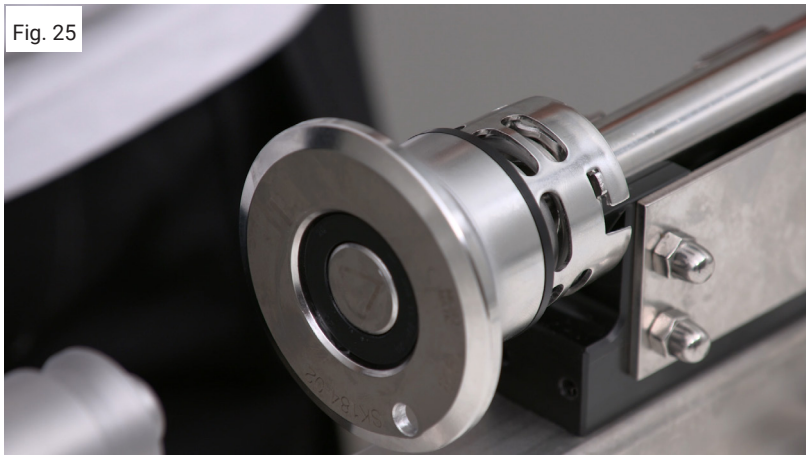
Fig. 24



Maintaining firm lever pressure, twist the valve body to engage the three bayonet locks.

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Fig. 25



Release the lever and the spear is fully mounted.

Fig. 26



Check that one of the tips on the triangle...

Fig. 27

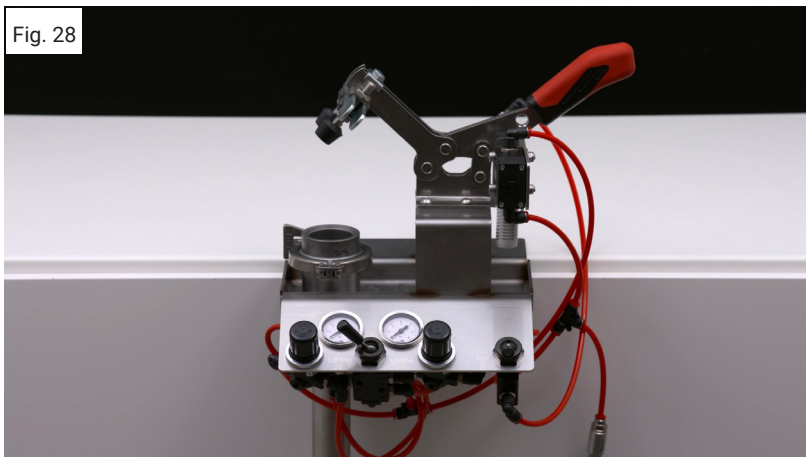


... is facing the line.

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LEAK TESTING

Fig. 28



Use tool **No. 940-036** for leak testing.

Fig. 29



Place the spear in the leak tester.

Fig. 30



Press down the red handle to lock the spear.

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Fig. 31



Pour water on the top of the flange until it covers the gasket.

Fig. 32



Move the handle upwards to "ON".
(The pressure is 0.8 Bar)

Fig. 33



Look for bubbles.

No bubbles = The spear are not leaking.

Bubbles: The spear are leaking.

Do not use.

Move the handle downwards to "OFF" again, press up the red handle and remove the spear.

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MOUNTING

Fig. 34



Check condition of keg neck internally:

- Neck thread must be free of damage
- Sealing land must be clean and free of damages and sharp edges
- Neck must be free of weld splatter

Do not attempt to fit the assembly to damaged/poor quality necks.

Fig. 35



Apply water on sealing before mounting in the keg.

Fig. 36



Place the spear in the adapters **No. 941-039** and **No. 941-054**.

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Fig. 37



Place tool **No. 741-031** onto the spear and press downwards until it clicks.

Fig. 38



Disengage the body from the bayonet locks by turning.

Fig. 39



Ensure correct position of sealing ring prior to insertion of spear into neck.

Lift spear valve body clear of valve.

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Fig. 40



Angle the spear through the keg neck.

Fig. 41



Allow the safety lug to pass below the sealing land of the keg neck.

DO NOT USE FORCE !!

There is no need for the spear tip to touch the internal keg surface during this part of the assembly.

Fig. 42



Push valve body downwards over the valve and turn it clockwise to loosely engage the threads into the keg neck.

Lift the hand tool with spear engaged upwards until contact is made between the welded plate on the stem assembly and the skirt of the valve body.

Continue lifting the hand tool upwards and rotate it clockwise until a positive upward movement of the assembly occurs. This is the first stage of re-engagement of the 3 bayonet locks.

Continue lifting the hand tool upwards but now rotate it anti-clockwise until the taps on the welded plate are completely in the bayonet locks in the valve body.

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Fig. 43



Continue lifting the hand tool upwards but now rotate it anti-clockwise until the taps on the welded plate are completely in the bayonet locks in the valve body.

Fig. 44



Press the "trigger" of the tool
Now the spear has been assembled.

Fig. 45



Check that the tip of the triangle is facing the line.

If the lines do not correspond -

Do not use.

Restart the mounting procedure.

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Fig. 46



Screw the spear into neck by hand.

Fig. 47



Be aware to fit the hole in the flange with the tap on the tool.

Fig. 48



Use adaptor **No. 740-049** together with a torque wrench to screw in the spear. Screw in with 70-80 Nm.

After the first filling: Retighten with 40-50 Nm. **Do not over torque!**

We recommend that a pressure test is carried out on the keg with spear fitted. A low pressure test - 12 psi (0.8 bar) will highlight incorrect fitting of both main seal and keg seal before the keg reaches the filling line.

