

MS-990 VIBRO MARKING PENCIL Signature Series Product

Safety Instructions

Make sure you are familiar with the operating instructions before you use this machine. This machine, it's attachments and accessories must only be used for the purpose for which they were designed.

For product liability and safety reasons any modification to the machine, it's attachments or accessories must be agreed in advance with an authorized technical representative of the

Manufacturer.

To prevent personal injury and long time risks:

- When using quick change couplings, watch out for whipping air hoses when disconnecting.
- Exposure to vibrations may be harmful to hands and/or arms.- Ear protection is recommended

- Never work without protective goggles
- Before making any adjustments (e.g. Changing engraver needle) disconnect the machine from the compressed air line.

Installation

*Air Quality

For optimum performance and maximum machine life we recommend the use of compressed air with a maximum dew point of +10 degrees C.

Handling

*Operating Instructions

The machine is started by sliding the sleeve at the hose connection in the direction of the marking tip

Maintenance

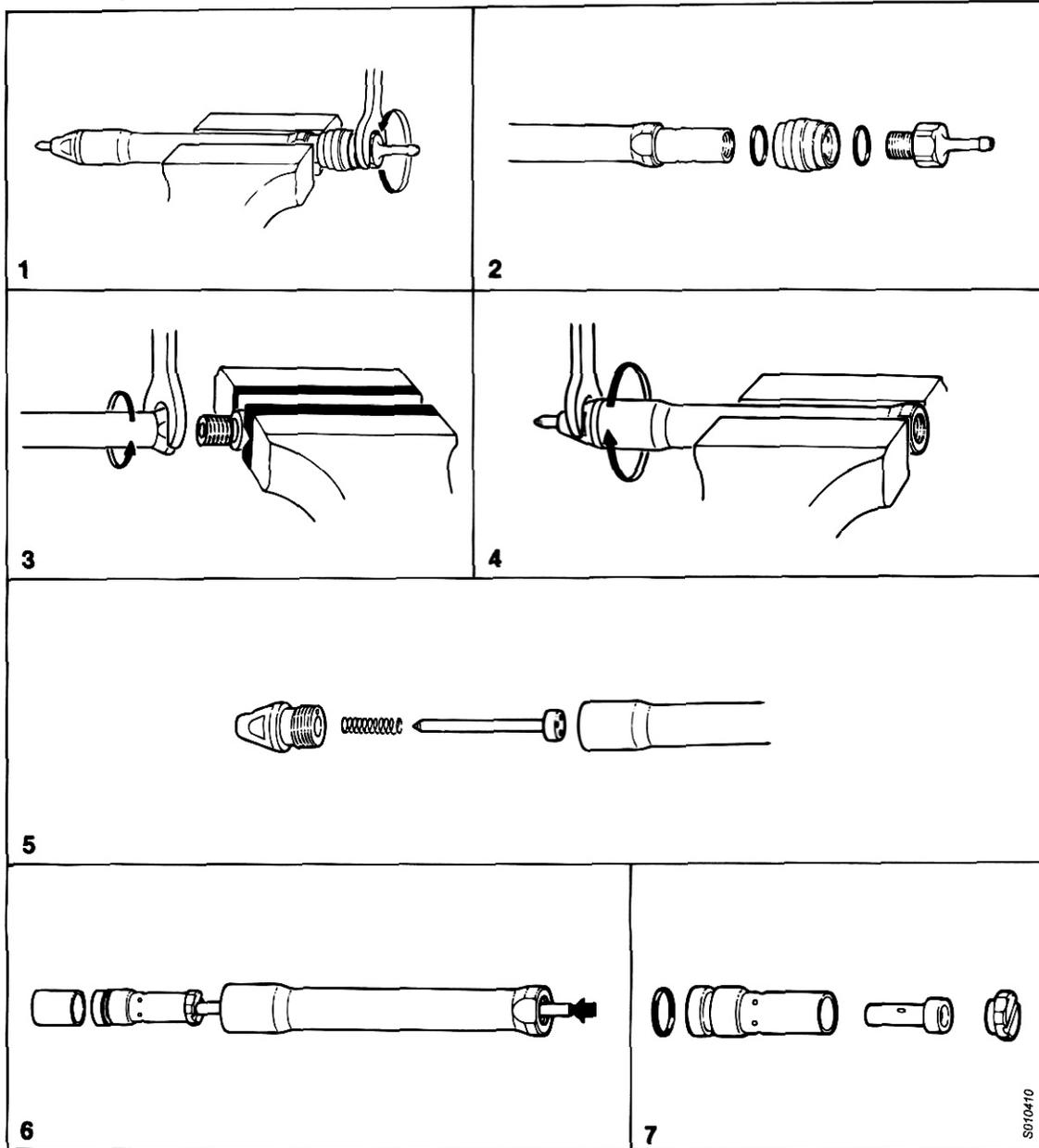
*Rust Protection for internal cleaning

Water in the compressed air, dust and wear particles can cause rusting and sticking of the piston, valves etc. This can be solved by flushing with oil (some drops), running the machine for 5-10 seconds and absorbing the oil with a cloth. This preparation should be taken before longer standstills or long term storage.

Overhaul and Lubrication

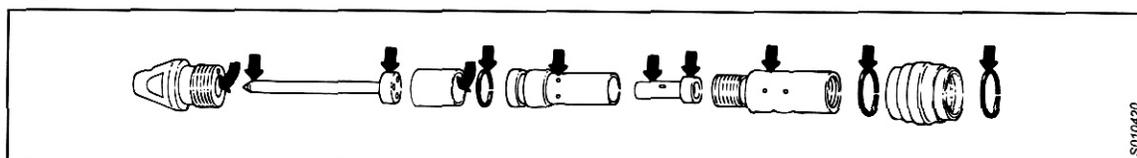
If the machine is normally used heavily, the pen should be dismantled, overhauled and cleaned after 4 months in operation. If the machine is not running properly, it should taken out of service for further inspection. At the overhaul process, the dismantled parts should be checked according to the spare parts list. Sliding parts should be lubricated with oil prior to assembly. Use lubricants of good quality. The air motor oils and greases listed below are examples of lubricants which are recommended.

Dismantling

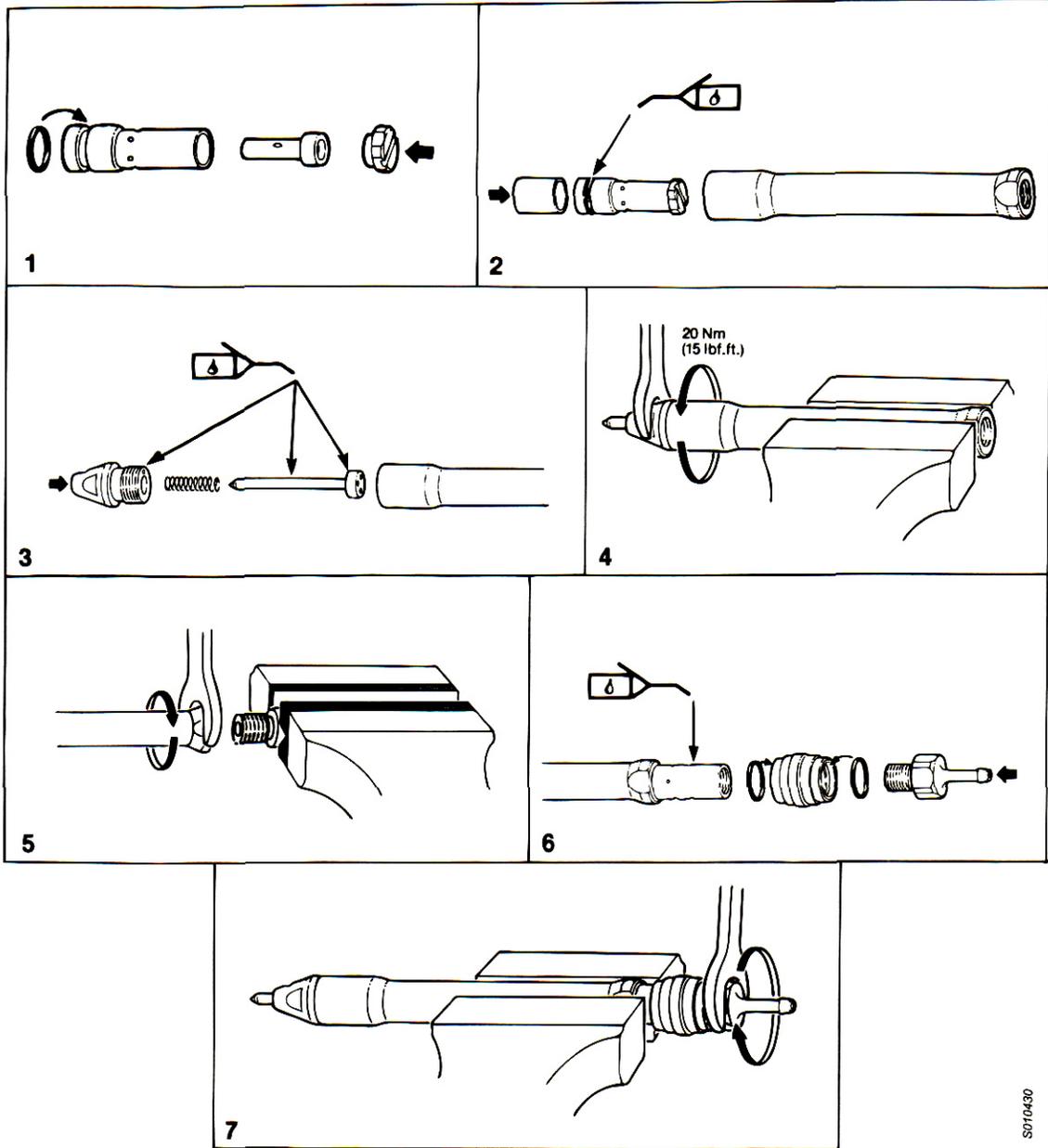


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Inspection



Assembly



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