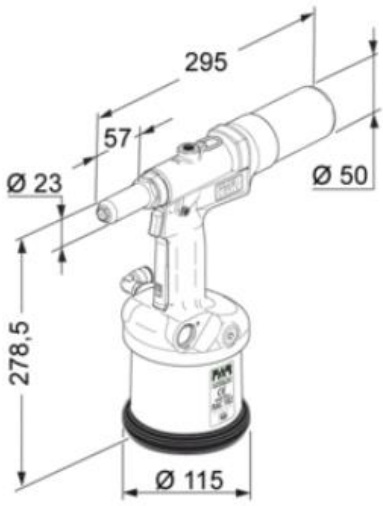
AIR RIVET GUN – 10182

Far® Air Rivet Gun for Standard Rivets Diameters 2.4 – 4.8mm & Structural Rivets Diameter 4.8mm*

The RT-10182 is a heavy-duty hydro-pneumatic rivet tool suitable for medium to high volume production workshops. This tool features a quick cycle time with high-traction force and a vacuum rivet holding capacity even in the vertical position. It also features has a vacuum-powered mandrel extraction system. The Far rivet tools are renowned for being high quality Italian-made riveting guns that are trusted and supported with stocked spare parts.

RT-10182 Specifications	
Weight	1.7Kg*
Type	Hydro-Pneumatic
Construction	ABS Plastic, Magnesium & Steel
Installation Force Setting	6 Bar – 10.5 kN
Stroke	20.5 mm
Rivet Capacity	- 2.4mm (3/32”), 3.2mm (1/8”), 4.0mm (5/32”) and 4.8mm (3/16”) Standard Rivets in all materials. - * 4.8mm (3/16”) Structural Rivets in all material with optional extra nosepiece - * 6mm (15/64”) Standard Rivets in aluminium.



Rivet gun comes with nose tips X 5, wrench, oil bottle, air fitting and manual.

* subject to metal composition

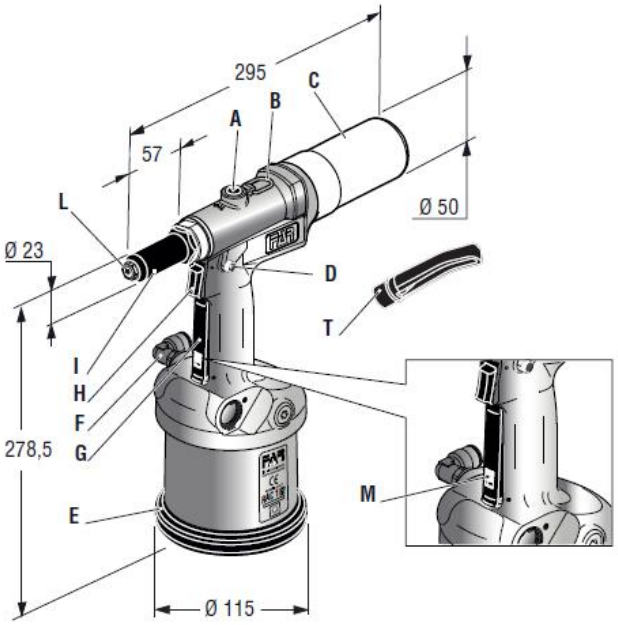
Safety Measures & Requirements

- Read the instructions carefully before using the tool.
- The tool must be used only by expert workers.
- A protective visor and gloves must be put on when using the tool.
- Use equipment recommended in the maintenance chapter to do any maintenance and/or regulation of the tool.
- For topping up the oil, we suggest using only fluids in accordance with the features specified in this working book. If any drop of oil touches your skin, you must wash with water and alkaline soap.
- The tool can be carried and we suggest putting it into its box after using.
- The tool needs a thorough six-monthly overhaul.
- There are no special requirements for storage.
- Repairing and cleaning operations must be done when the tool is not fed.
- If it is possible, we suggest a safety balancer.
- If the A-weighted emission sound pressure level is more than 70 dB (A), you must use some hearing protections (anti-noise headset, etc.).
- The workbench and the work surface must be always clean and tidy. The untidy can cau se damages to people.
- Do not allow unauthorized persons to use the working tools.
- Make you sure that the compressed air feeding hoses have the correct size to be used.
- Do not carry the connected tool by pulling the hose. The hole must be far from any heating sources or from cutting parts.
- Keep the tools in good conditions; do not remove either safety parts or silencers.
- After repairing and/or adjusting, make sure you have already removed the adjusting spanners.
- Before disconnecting the compressed air hose from the tool make sure that there is no pressure in the hose.
- **WARNING:** Before using the tool, assemble the protection bottom supplied with the tool.

Tool Identification

Main Components

A) .....Oil tank plug
B) .....Balancer connection
C) ..... Nails container
D) .....Suction regulation knob
E) .....Rubber protective base
F) .....Compressed air connection
G) ..... Suction control
H) ..... Tensile strength button
I) .....Sleeve carrying nozzle
L)..... Nozzle
M) ..... Suction Device always on
T)..... Nails baffle



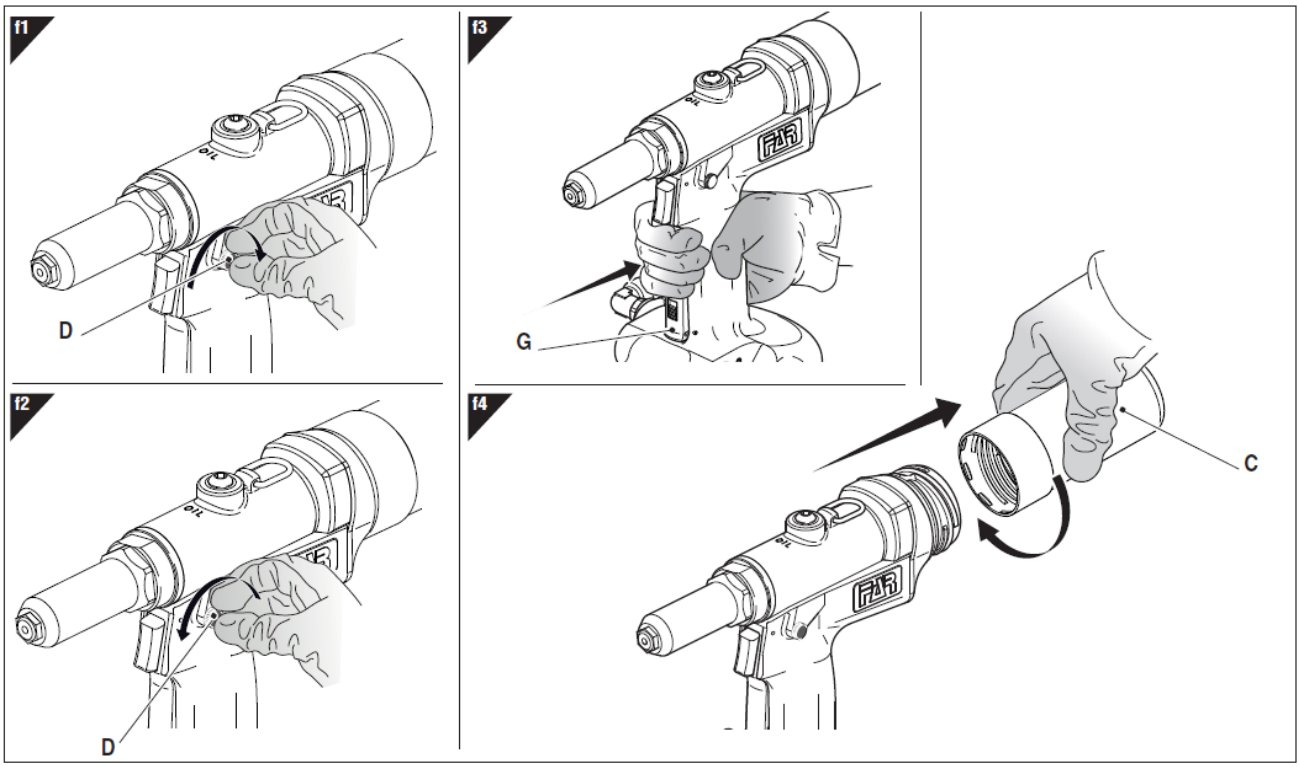
Technical Data

Working pressure ..... 6-7 BAR
Min. int. Dia. of the compressed air feeding hose..... min. dia. = 8 mm
Air consumption per cycle..... 5,1 Nl
Maximum force..... 6 BAR - 10500 N
Stroke..... 20,5 mm
Weight..... 1,70 Kg
Working temperature..... -5°/+50°
Root mean square in total acceleration frequency (Ac)
to which the arms are subjected. ..... < 2,5 m/s2
A-weighted emission sound pressure level..... 76 dBA
Peak C-weighted instantaneous sound pressure..... < 130 dBC
A-Weighted sound power..... 87 dBA

How to use your riveting tool

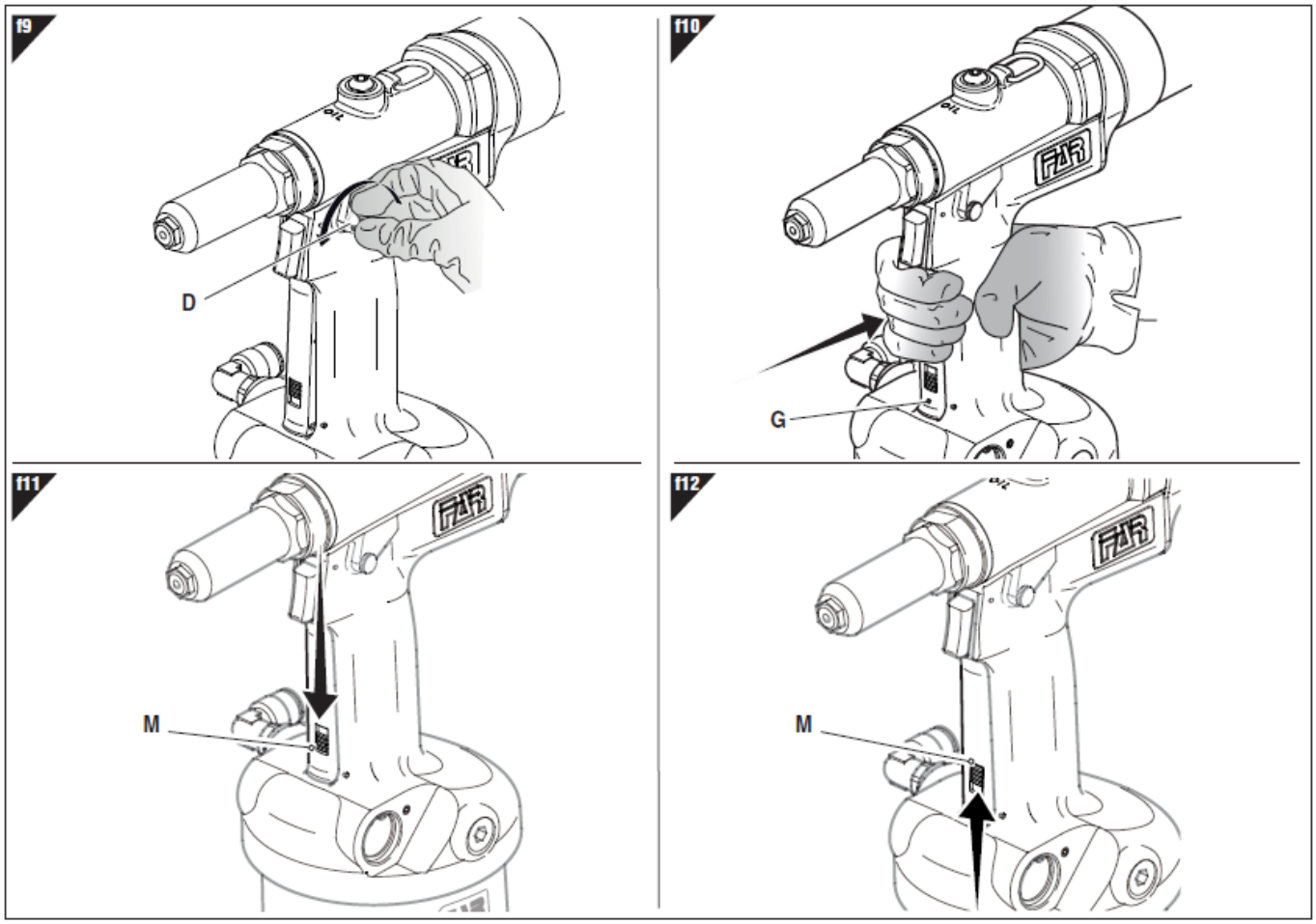
ATTENTION!!! Before using the tool it is absolutely necessary to fit the nails container (C), or the nails baffle (T).

WARNING: When the riveting tool is used in the absence of nails tank (**C**), it is essential to fit the baffle (**T**) and the relative reduction (**S**) (pic. **F14**), in order to avoid injury to the operator and / or persons close to him. PLEASE DISPOSE OF NAILS CAREFULLY!
Do not use the riveting tool when the container (**C**) is overflowing with spent mandrels, but unscrew the container (**C**) and empty it (pic. **f4**).
Controlled suction (factory settings) (pic**. f1÷f3**) Make sure that the knob (**D**) is completely screwed (pic. **f1**). Hold down the lever (**G**) as shown in the picture (pic. **f3**), turn the knob (**D**) anticlockwise (pic. **f2**) to open and adjust the air flow necessary to suck the spent mandrel.



Suction OFF (pic. **f5÷f8)**

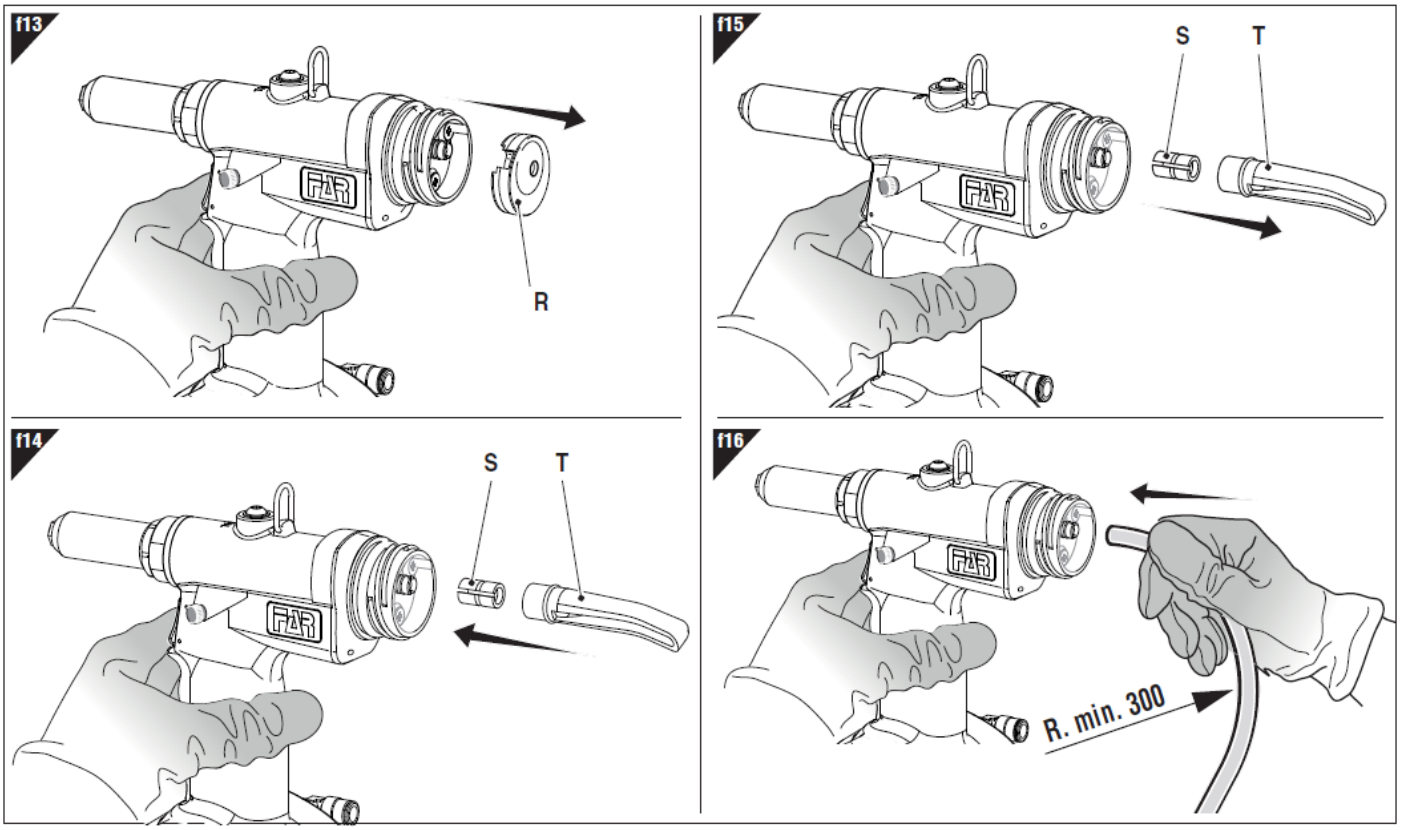
Keep the lever (**G**) pressed as shown (pic. **f5**), turn the knob (**D**) clockwise (pic. **f6**), until the suction stops. In this configuration, the spent mandrel will come out by gravity, from the front or back, tilting the riveting tool as shown in the picture (pic. **f7-f8**).



Broken mandrel recovery (pic. **f13÷f16)**

To assemble the baffle (**T**) proceed as follows: remove the nails tank (**C**) (pic. **f4**) as well as the cover (**R**) (pic. **f13**), assemble the reduction (**S**) on the connector and insert the baffle (**T**) with a slight pressure (pic. **f14**). In case you want to convey the pieces of sheared nails inside a container, pull out the baffle (**T**) and the relative reduction (**S**) from the tool (pic. **f15**).

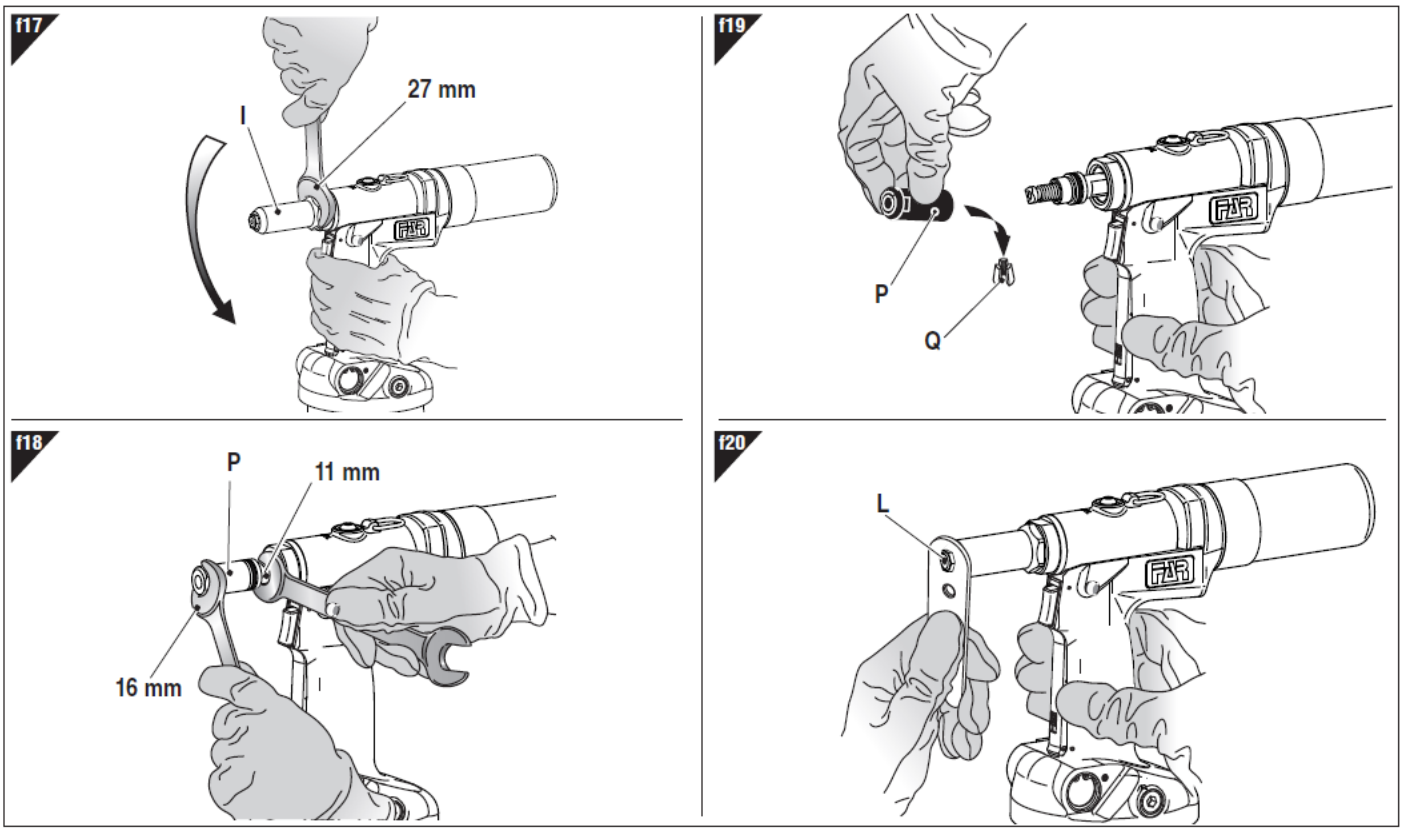
Connect the riveter with a pipe ø 10 x 8 (**C**) by inserting it on the fitting (pic. **f16**).
CAUTION: the radius of curvature of the pipe must not be less than **300 mm**, as shown in (pic. **f16**).



Clamps maintenance and change of size (pic. **f17÷f20**)

The prolonged use of the riveting tool can cause the slipping of the clamps on the nail because of the impurities. For this reason, it is necessary to lubricate the clamps after cleaning. However, if clamps are worn out and their proper functioning compromised, they must be replaced. First remove the head which carries the nozzle (**I**), by means of a standard spanner of 27 mm. Then, by using two standard spanners of 11 mm and 16 mm, remove the cone (**P**) and extract the clamps (**Q**).

When replacing the nozzle (**L**), use the proper supplied wrench and screw the removed nozzle in it in order to avoid losing the nozzle.

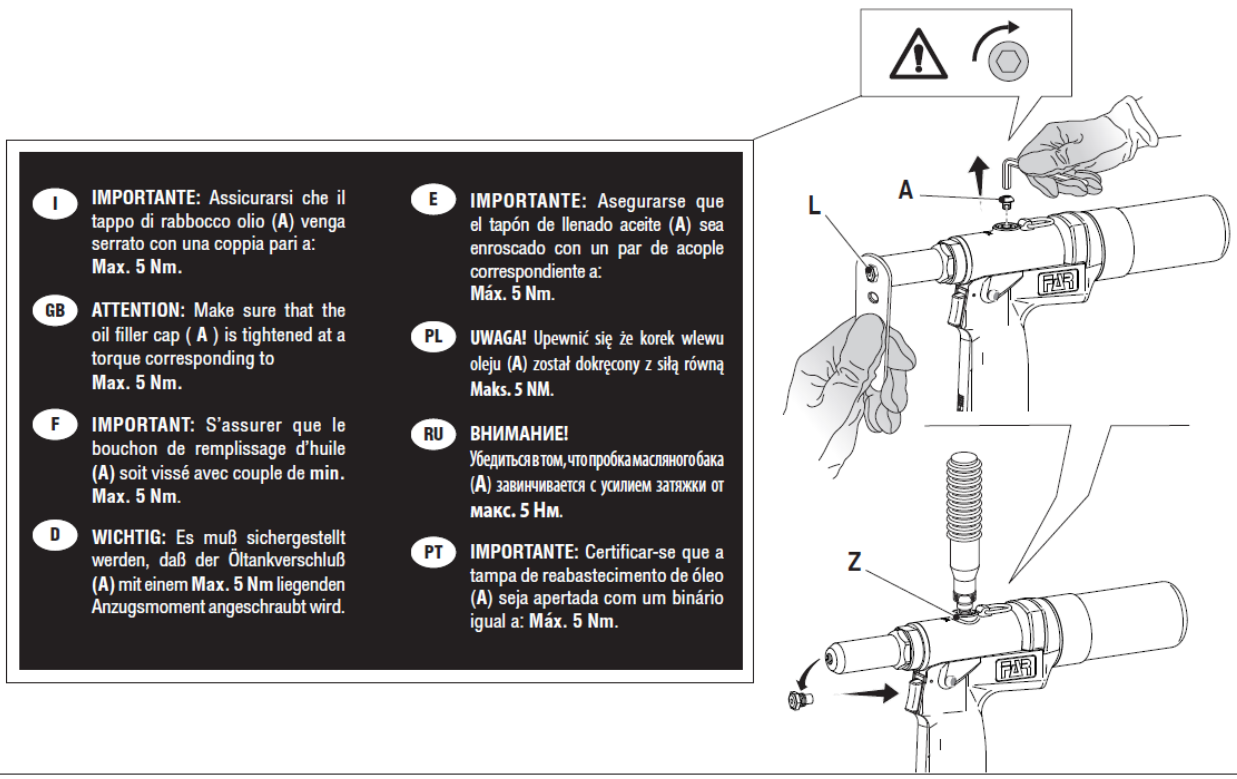


Topping up the oil in the hydraulic circuit (pic. **f 21)**

Topping up the oil in the hydraulic circuit is necessary after a long period of work (15000 cycles), when there is a reduction of the riveter stroke.Then proceed as follows: riveting tool on standby but fed and in a vertical position, remove the cap (**A**) using the allen wrench 4 mm., remove also the nozzle (**L**) with the provided key. When doing this operation use extreme caution to prevent oil spills. Screw the oil container (**Z**), previously filled with commercial hydraulic oil **HLP 32 cSt**, into the place of the cap (**A**). By keeping the riveting tool vertically, press the trigger several times until the riveter ends to make bubbles from the oil container (**Z**). It means that the oil filling has been fully achieved. With the riveter still vertical and fed, unscrew the oil container (**Z**) and then proceed by placing the cap (**A**).

WARNING: it is very important to follow the about mentioned instructions and use gloves and protection glasses or protective visors. If you need to empty fully the hydraulic circuit, you must put the oil in a suitable container and contact a Company that is authorized to discharge any waste.

f21



Regular maintenance

Daily maintenance

- Check the supply system of the compressed air.
- Check that there are neither air nor oil leakages. In this case replace possible damaged connectors or seals.
- Check that the supply pressure of the compressed air does not exceed **7 bar.**

Weekly maintenance

- Check the oil level controlling the stroke of the riveting tool. If necessary fill up for preventing failures of the riveting tool as indicated (fig. **f21**).

Overhaul of the riveting tool

It is advisable to carry out a complete overhaul of the riveting tool after **600,000 cycles** or **every year.**
In this case apply only to centres authorized by **FAR S.r.l.**

Disposal of the riveting tool

Follow the prescriptions of the national laws for disposing of the riveting tool.
After disconnecting the tool from the pneumatic system, disassemble and split all the components according to the material: steel, aluminium, plastic material, etc.
Then proceed to scrap the materials in accordance with current laws.

TROUBLE SHOOTING

SIGNALS	CAUSE	SOLUTIONS
- Does not fasten the rivet	- Non-powered tool	- Connect the riveting tools to the compressed air
	- Slipping of the clamps on the nail	- Perform clamps maintenance
	- Lack of oil	- Top up oil
	- Incorrect nozzle	- Replace the nozzle as shown in the table
	- Unfiltered and unlubricated air	- Equip yourself with lubricator filter assembly
- Oil leak	- Worn gaskets	- Contact the service center
	- Oil filler cap not tightened	- Tighten correctly
- Air leak	- Incorrect positioning of the feeding tube	- Position the feeding tube correctly
	- Worn gaskets	- Contact the service center
	- Breaks on the riveting machine body	- Contact the service center
- Not ejected nail	- Incorrect nozzle	- Replace the nozzle as shown in the table
	- Closed suction system	- Open the suction system
	- Full nails container	- Empty the container

SPARE PARTS

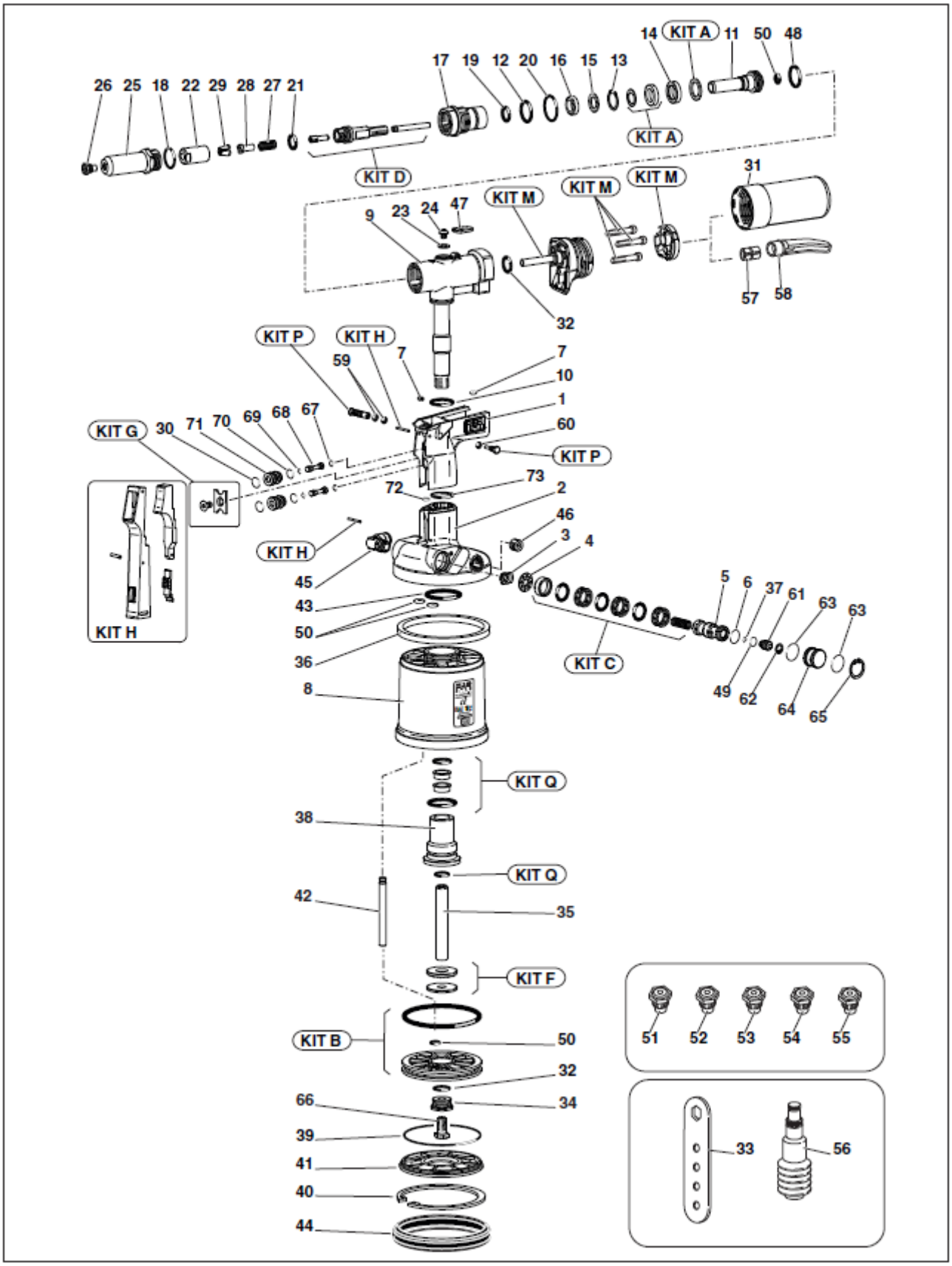
No.	CODE	Q.ty	DESCRIPTION	KIT
1	72000322	1	Handgrip	
2	72000364	1	Riveting tool body	
3	711259	1	Service plug	
4	712117	1	Washer stopping spring	
5	710841	1	Valve	
6	710916	1	Gasket OR 2-015	
7	713390	2	Gasket OR 2-007	
8	72000457	1	Pneumatic cylinder	
9	72000323	1	Hydraulic cylinder	
10	711730	1	Gasket OR 2-119	
11	71346103	1	Hydraulic piston	
12	710917	1	Gasket OR 2-118	
13	711974	1	Seeger ring JV 22	
14	710901	1	Gasket B-102070	
15	710908	1	Washer	
16	71C01698	1	Gasket B-086055 (B/NEI)	
17	71346101	1	Front connector	
18	710300	1	Gasket OR 020	
19	710579	1	Gasket OR 2-113	
20	711729	1	Gasket OR 2-024	
21	710102	1	Gasket OR 113	
22	710859	1	Clamps holding cone	
23	710555	1	Washer 400-004-4490	
24	71C01278	1	Screw TBCE M6 x 6 ISO 7380	
25	71346060	1	Sleeve carrying nozzle	
26	717004	1	Nozzle for rivet ø 4,8 Cu / Steel	
27	710853	1	Spring	
28	710849	1	Clamps opener	
29	71345507	3	High-performance clamp	
30	710003	2	Gasket OR 5-052	
31	711706	1	Nails container	
32	711336	2	Gasket OR 2-114	
33	711357	1	Wrench kit	
34	71346455	1	Bush	
35	71346453	1	Rod	
36	71346470	1	Silencer	
37	710528	1	Gasket OR 008	
38	71346452	1	Rod guide	
39	71C01297	1	Gasket OR 2-043	
40	71C01296	1	Seeger ring 100 UNI 7437	
41	71346085	1	Protection bottom	
42	71346469	1	Tube ø 8 x 7	
43	711339	1	Gasket OR 2-129	
44	71346084	1	Protection bottom	
45	716377	1	Connector 6522 - ø 10 - 1/4"	
46	71C01022	1	Cap 1/4"	
47	71346107	1	Balancer hook	
48	711732	1	Gasket OR 2-118	
49	710258	1	Gasket OR 5-612	
50	710350	4	Gasket OR 2-109	
51	717001	1	Nozzle for rivet ø 2,4 ÷ 3,4	
52	717002	1	Nozzle for rivet ø 4	
53	717003	1	Nozzle for rivet ø 4,8 All.	
54	717005	1	Nozzle for rivet ø 6 / 6,4	
55	717006	1	Nozzle for rivet ø 2,4	
56	72A00053	1	Oil container assembly	
57	712329	1	Reduction	
58	71345212	1	Nails baffle	
59	71C01495	2	Gasket OR 4 x 1,5	
60	71C01496	1	Gasket OR 3 x 2	
61	710822	1	Valve piston	
62	710905	1	Seeger ring 11 UNI 7437	
63	710922	2	Gasket OR 018	
64	712268	1	Spring guide plug	
65	710402	1	Seeger ring 22 UNI 7437	
66	710837	1	Screw TE M9 x 20	
67	710918	2	Gasket OR 2-005	
68	711704	2	Valve piston	
69	710919	2	Gasket OR 2-004	
70	710376	2	Gasket OR 2-009	

No.	CODE	Q.ty	DESCRIPTION	KIT
71	711703	2	Valve body	
72	710385	1	Gasket OR 2-006	
73	710572	1	Gasket OR 2-120	

KIT			
KITA	740821		Anti-extrusion ring kit
KITB	74000030		Pneumatic piston kit
KITC	740840		Coil kit
KITD	74000088		Cone holder kit
KITF	74000113		Dampener kit
KITG	741702		Plate kit
KITH	74000114		Lever kit
KITM	74000116		Kit back connector
KITP	74000117		Suction adjustment Kit
KITQ	74000119		Gaskets kit

KIT	It indicates that the part is sold in kits consisting of different parts in different quantities.

Parts Diagram

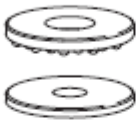


KIT A

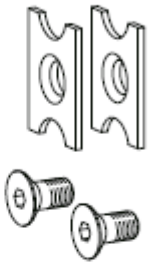
KIT B

KIT D

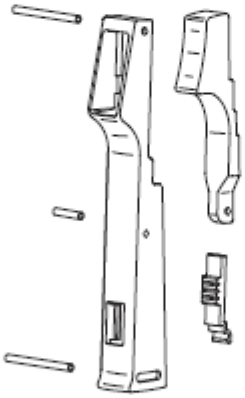
KIT F



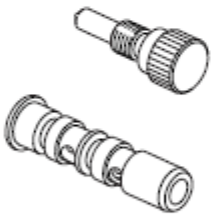
KIT G



KIT H



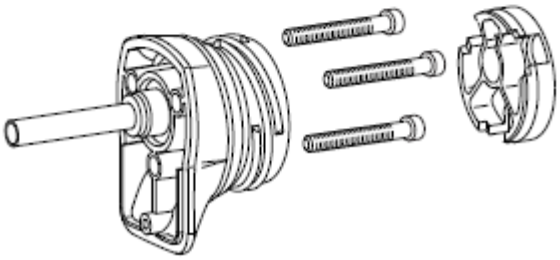
KIT P



KIT Q

KIT C

KIT M



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