

3700-MIP1

HYDRO-PNEUMATIC TOOL WITH OIL PRESSURE ADJUSTMENT FOR INSTALLATION OF LOKSERT METRIC THREAD M4 TO M12 INCH THREAD 8G TO 7/16



lokserti

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1 - GENERAL INFORMATION

1.1 - MANUFACTURER

Crossroad Distributor Source manufactures and distributes a wide range of threaded inserts and related installation tools.

1.2 - ASSISTANCE

If you need any assistance concerning the use and the maintenance of the tool, or if you need to order any spare parts, you shall contact your local authorised dealer (or Crossroad Distributor Source directly) specifying the identification/serial numbers of the tool, written on the outer case:

C 1	See section 3
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1.3 - CERTIFICATION AND EC MARKING

The tool is manufactured in compliance with the European Directives, which are in force at the time the tool is sold. As the tool is not included in ENCLOSURE IV of DIRECTIVE 2006/42/EC, Crossroad Distributor Source issues a self-certification to apply the EC marking.

1.4 - WARRANTY

The warranty has a validity of 12 months from invoice date. The warranty only covers replaced parts; labour is not included.

The following are not covered by warranty: standard accessories (see section 2.5) and tool damages caused by:

- transport and/or handling,
- user mistakes,
- failed servicing/maintenance, as indicated in section 7 of this manual,
- faults and/or breakages that are not attributable to tool anomalies,
- normal consumption of consumables.

The warranty is invalidated both in the case of unauthorised tampering/replacements of tool components and in case of use of accessories, tools or consumables different from those recommended by the manufacturer. Not adhering to the safety guidelines may result in bodily injury.

Crossroad Distributor Source assumes responsibilities only if the tool is originally defective but declines all forms of responsibility if the user fails to follow the instructions given.

1.5 - MANUAL STRUCTURE

This instruction manual must be read with attention by the operator, as the correct pre-arrangement, installation and use of the tool, are the correct basis for a good relationship between Manufacturer and Customer.

1.5.1 - PURPOSE AND CONTENTS

The manual herein has the purpose of providing the operator with all the information needed not only to use the tool correctly, but also to manage it self-sufficiently and safely. It includes information concerning technical aspects, operation, maintenance, spare parts and safety.

Users and Qualified Technicians must read the instructions given herein thoroughly before starting to use the tool. If you have any doubts on the meaning of the instructions given, please do not hesitate to contact Crossroad Distributor Source for further explanations.

1.5.2 - RECEIVERS

The manual herein has been written for both the operators and the technicians enabled to service the tool. **Operators must not carry out procedures reserved to service and/or qualified technicians**. Crossroad Distributor Source is not liable for any damage deriving from the failed observance of this rule.

1.5.3 - PLACING OF THE MANUAL

This instruction manual must be kept near the tool, inside a dedicated container and, above all, away from liquids or anything else that may compromise its legibility.

WARNING: The 3700-MIP1 Loksert Pneumatic tool is only intended for use with non locking inserts in 303 Stainless steel or carbon steel.



1.5.4 - SYMBOLS USED

SYMBOL	MEANING	COMMENT
P	HAZARD	This highlights a hazard with risk for the user.
A	WARNING	This points out a warning/note on key functions or useful information. Read the texts indicated by this symbol with utmost attention.
C	CONSULT	Consult the instruction manual before carrying out a specific procedure.



2 - TOOL DESCRIPTION

2.1 - OPERATING SYSTEM

The hydro-pneumatic 3700-MIP1 tool, with oil pressure adjustment, is designed to install the following product:

▶ LOKSERT THREADED INSERTS (from metric M4 to M12 and inch 8G to 7/16)

The hydro-pneumatic system and the mechanical components used for the 3700-MIP1, when compared with other competitive tools is more reliable. A tool feature is a reduction of the problems caused by the wear and tear of the components, and consequently the tool will last longer and perform better. The technical solutions adopted make the 3700-MIP1 more compact and light: the result is a useful tool.

2.2 - VIBRATION

When used correctly, i.e. in compliance with the instructions given, the tool does not produce any dangerous vibration.

2.3 - NOISE LEVEL

The tool is designed and manufactured in such a way that the noise level results to be very low. The weighed equivalent continuous acoustic pressure level A in the operator position is below 80 dB (A).

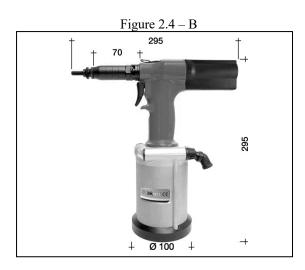
The information given can, in any event, allow the tool user to better evaluate the possible and eventual risks of danger.

2.4 - TECHNICAL DATA

The following table provides the technical data and features of the tool, to which you must refer when contacting the Technical Assistance Department of Crossroad Distributor Source.

Table 2.4 – A -	Technical	data and	features
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AIR WORKING PRESSURE	6 bar
MIN – MAX AIR PRESSURE	5 – 7 bar
AIR CONSUMPTION PER CYCLE AT 6 BAR	5 liters
MAX STROKE	8,0 mm
MAX FORCE	19.000 N
MOTOR SPEED (SCREWING)	2250 rpm a 6,5 bar
MOTOR SPEED (UNSCREWING CYCL)	2250 rpm a 6,5 bar
DIRECT UNSCREWING SPEED	2250 rpm a 6,5 bar
WEIGHT (WITHOUT KIT)	2,200 Kg
VIBRATIONS	$< 2,5 \text{ m/s}^2$
NOISE LEVEL	76 dB (A)



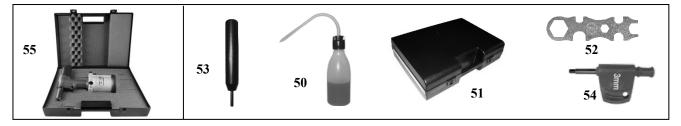


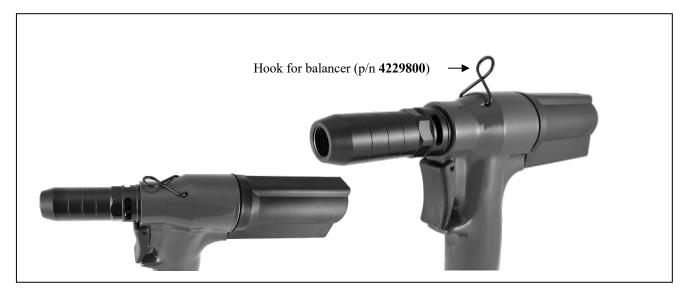
2.5 - NOSE ASSEMBLIES AND STANDARD ACCESSORIES

The nose assemblies stated hereafter refers to standard tools.

Figure	25 - 4
Figure	2.3 – A

REF.	P/N	Q. тү	DESCRIPTION 3700-MIP1 HYDRO-PNEUMATIC WITH OIL PRESSURE ADJUSTMENT (FORCE)		TH OIL PRESSURE
55.	3700-MIP1	1	Hydro-pneumatic	TOOL FOR LOKSERT (IN CASE)	
50.	3064400	1	HYDRAULIC OIL TYPI	E ISO VG 32 100cc	
51.	0369800	1	PLASTIC CASE	PLASTIC CASE	
52.	0207300	1	UNIVERSAL KEY		
53.	2533800	1	EMERGENCY AND STROKE REGULATION PIN		
54.	4154200	1	REGULATION WRENCH MM. 3,0		
-	-	1	INSTRUCTION MANUAL		







2.5.1 - ACCESSORIES ON REQUEST

The tool can be supplied with different accessories; not included with tool FEAs must be ordered separately accordingly to the following.

2.5.1.1 - FRONT END ASSEMBLIES (FEA) FOR LOKSERT - METRIC AND INCH

METRIC THIN WALL

P/N	LOKSERT INTERNAL THREAD	LOKSERT EXTERNAL THREAD
3720-5.00TWMIP	м5х0,8	м8х1,25
3720-6.00TWMIP	м6х1	м10х1,25
3720-8.00TWMIP	м8х1,25	v10v105
3721-8.00TWMIP	м8х1	м12х1,25
3720-10.00TWMIP	м10х1,5	x(14x1.5
3721-10.00TWMIP	м10х1,25	м14х1,5
3720-12.00TWMIP	м12х1,75	x(16x1.5
3721-12.00TWMIP	м12х1,25	м16х1,5

METRIC HEAVY DUTY

P/N	LOKSERT INTERNAL THREAD	LOKSERT EXTERNAL THREAD
3720-4.00HDMIP	м4х0,7	м8х1,25
3720-5.00HDMIP	м5х0,8	м10х1,25
3720-6.00HDMIP	м6х1	м12х1,25
3720-8.00HDMIP	м8х1,25	x14x1 5
3721-8.00HDMIP	м8х1	м14х1,5
3720-10.00HDMIP	м10х1,5	<u>v1(v1 5</u>
3721-10.00HDMIP	м10х1,25	м16х1,5
3720-12.00HDMIP	м12х1,75	×19×1.5
3721-12.00HDMIP	м12х1,25	м18х1,5



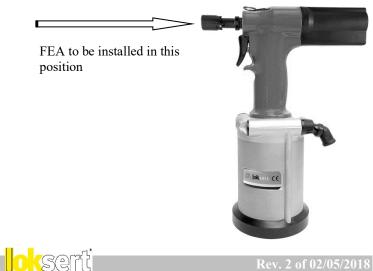


INCH THIN WALL

P/N	LOKSERT INTERNAL THREAD	LOKSERT EXTERNAL THREAD
3732-10GTWMIP	10-24	5/16-18
3734-10GTWMIP	10-32	5/10-18
3732-1/4TWMIP	1/4-20	2/9.16
3734-1/4TWMIP	1/4-28	3/8-16
3732-5/16TWMIP	5/16-18	7/16 14
3734-5/16TWMIP	5/16-24	7/16-14
3732-3/8TWMIP	3/8-16	1/2.12
3734-3/8TWMIP	3/8-24	1/2-13
3732-7/16TWMIP	7/16-14	0/16 19
3734-7/16TWMIP	7/16-20	9/16-18

INCH HEAVY DUTY

P/N	LOKSERT INTERNAL THREAD	LOKSERT EXTERNAL THREAD
3732-8GHDMIP	8-32	5/16-18
3732-10GHDMIP	10-24	3/8-16
3734-10GHDMIP	10-32	5/8-10
3732-1/4HDMIP	1/4-20	7/16-14
3734-1/4HDMIP	1/4-28	//10-14
3732-5/16HDMIP	5/16-18	1/2-13
3734-5/16HDMIP	5/16-24	1/2-15
3732-3/8HDMIP	3/8-16	9/16-18
3734-3/8HDMIP	3/8-24	9/10-18
3732-7/16HDMIP	7/16-14	5/8-11
3734-7/16HDMIP	7/16-20	5/8-11





2.5.1.2 - FRONT END ASSEMBLIES (FEA) FOR LOKSERT - COMPOSITION AND SPARE PARTS



METRIC THIN WALL

P/N	1	2	3	4	5	
3720-5.00TWMIP	FLC4416.M5TW		3471700	12.233.MM1.1.BR	3472000	
3720-6.00TWMIP	FLC4416.M6TW		3472100	12.234.MM1.1.BR	3472500	
3720-8.00TWMIP	ELCAAIC MOTW		2472600	12.235.MM1.1.BR	2472000	
3721-8.00TWMIP	FLC4416.M8TW	0227700	3472600	12.235.MM2.1.BR	3472900	
3720-10.00TWMIP		0327700	12.236.MM1.1.BR	2441900		
3721-10.00TWMIP	FLC4416.M10TW		-	12.236.MM2.1.BR	3441800	
3720-12.00TWMIP	FLC4416.M12TW			12.237.MM1.1.BR	2472400	
3721-12.00TWMIP			-	12.237.MM2.1.BR	3473400	

METRIC HEAVY DUTY

P/N	1	2	3	P/N	P/N	
3720-4.00HDMIP	FLC4416.M4HD		3466300	12.238MM1.1.BR	3470600	
3720-5.00HDMIP	FLC4416.M5HD		3471700	12.233.MM1.1.BR	3472000	
3720-6.00HDMIP	FLC4416.M6HD		3472100	12.234.MM1.1.BR	3472500	
3720-8.00HDMIP	FLC4416.M8HD	2.470	2472600	12.235.MM1.1.BR	3472900	
3721-8.00HDMIP	FLC4410.M6HD	0327700	3472600	12.235.MM2.1.BR	5472900	
3720-10.00HDMIP	FLC4416.M10HD			12.236.MM1.1.BR	3441800	
3721-10.00HDMIP	FLC4410.M10HD		-	12.236.MM2.1.BR	3441800	
3720-12.00HDMIP	FLC4416.M12HD			12.237.MM1.1.BR	3473400	
3721-12.00HDMIP	ГLC4410.M12HD		-	12.237.MM2.1.BR	5475400	



INCH THIN WALL

P/N	1	2	3	4	5
3732-10GTWMIP	FLC4416.M5TW		3471700	12.233.MP1.1.BR	3472000
3734-10GTWMIP	FLC4410.10151 W		3471700	12.233.MP2.1.BR	3472000
3732-1/4TWMIP	FLC4416.1/4TW			12.235.MP1.1.BR	
3734-1/4TWMIP	FLC4410.1/41 W		3472600	12.235.MP2.1.BR	3472900
3732-5/16TWMIP	EL CAA16 5/16TW	0227700		12.235.MP3.1.BR	
3734-5/16TWMIP	FLC4416.5/16TW	0327700		12.235.MP4.1.BR	
3732-3/8TWMIP	EL C4416 2/9TW			12.236.MP1.1.BR	2441900
3734-3/8TWMIP	FLC4416.3/8TW			12.236.MP2.1.BR	3441800
3732-7/16TWMIP	EL C4416 7/16TW		-	12.237MP1.1.BR	2472400
3734-7/16TWMIP	FLC4416.7/16TW			12.237MP2.1.BR	3473400

INCH HEAVY DUTY

P/N	1	2	3	4	5
3732-8GHDMIP	FLC4416.M5TW			12.233.MP3.1.BR	
3732-10GHDMIP	FLC4416.10GHD		3471700	12.233.MP1.1.BR	3472000
3734-10GHDMIP	FLC4410.10GHD			12.233.MP2.1.BR	
3732-1/4HDMIP	FLC4416.1/4HD			12.235.MP1.1.BR	
3734-1/4HDMIP	FLC4410.1/4HD		3472600	12.235.MP2.1.BR	3472900
3732-5/16HDMIP	FLC4416.5/16HD	0327700		12.235.MP3.1.BR	
3734-5/16HDMIP	FLC4410.5/10HD			12.235.MP4.1.BR	
3732-3/8HDMIP	FLC4416.3/8HD			12.236.MP1.1.BR	3441800
3734-3/8HDMIP	ГLC4410.5/8ПD			12.236.MP2.1.BR	5441800
3732-7/16HDMIP	FLC4416.7/16HD		-	12.237MP1.1.BR	2472400
3734-7/16HDMIP	FLC4410.//10HD			12.237MP2.1.BR	3473400

Note:

The followings FEAs include additional component p/n 4316200. The standard "blocking ring nut" p/n 4172400 is common for all other FEAs and it is delivered included along with the power tool 3700-MIP1

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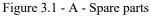
3720-12.00TWMIP, 3721-12.00HDMIP, 3720-12.00HDMIP, 3721-12.00HDMIP 3732-7/16TWMIP, 3734-7/16TWMIP, 3732-7/16HDMIP, 3734-7/16HDMIP

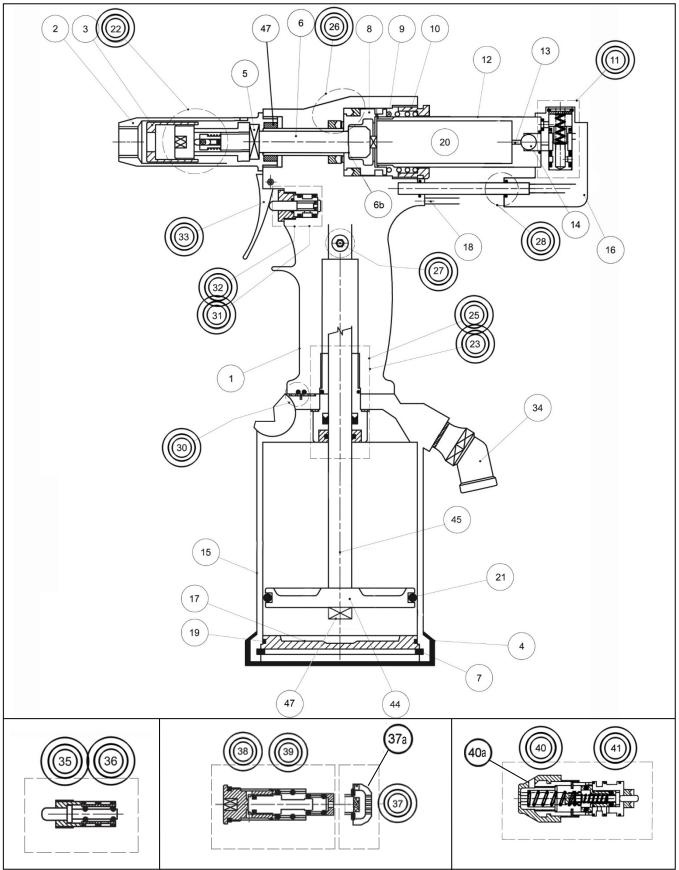


P/N 4316200 to replace the p/n 4172400 when using the M12 or 7/16 FEAs

3.1 - SPARE PARTS

3 - SPARE PARTS





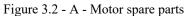


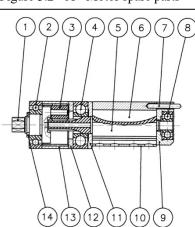
See	Figures	3.1	-A
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TABLE **3.1** - A

REF.	P/N	Q.TY	DESCRIPTION	REF.	P/N	Q.TY	DESCRIPTION	
1.	4833800	1	HANDLE CASING	25.	4157300	1	COMPLETE STEM GUIDE KIT 6 PIECES	\bigcirc
2.	3539900	1	OUTER CONE	26.	4151000	1	PISTON GASKET KIT 2 PIECES	
3.	4172400	1	TOOTHED BLOCKING RING NUT M3-M10	27.	4175700	1	OIL CAP KIT WITH O-RING	0
4.	4165100	1	RUBBER BASE	28.	4802600	1	AIR HOSES KIT WITH O-RING 6 PIECES	0
5.	3098600	1	RING NUT	30.	4152300	1	FLAT GASKET KIT + O-RING	\bigcirc
6.	4151500	1	ROTATING PIN + SKIMMER	31.	4151200	1	O-RING KIT 4 PIECES	\bigcirc
6b.	3097900	1	SKIMMER WASHER	32.	4156900	1	KIT COMPLETE WITH O-RING 7 PIECES	\bigcirc
7.	3093200	1	BOTTOM BLOCKING SNAP RING	33.	4153400	1	LEVER – PIN KIT	0
8.	4151300	1	OIL PISTON	34.	3235500	1	SUPPLE AIR CONNECTION THREAD 1/4"+1/4"GAS + ALUMINIUM WASHER	
9.	4151700	1	SPRING	35.	4157000	1	KIT COMPLETE WITH O-RING 8 PIECES	\bigcirc
10.	5167800	1	RING NUT	36.	4156600	1	O-RING KIT 5 PIECES	\bigcirc
11.	4803100	1	9 PCS KIT DISTRIBUTOR	37.	4291600	1	BAFFLE KIT 3 PIECES	\bigcirc
12.	4803000	1	MOTOR CASING	38.	4155800	1	O-RING KIT 7 PIECES	\bigcirc
13.	4426700	1	ROD	39.	4157100	1	KIT COMPLETE WITH O-RING 13 PIECES	0
14.	3096900	1	BALL	40.	4154400	1	GASKET KIT 7 PIECES	\bigcirc
15.	4645300	1	AIR BODY	41.	4157200	1	KIT COMPLETE 18 PIECES	0
16.	4802800	1	DISPENSER	44.	5331700	1	PISTON	
17.	3762300	1	BOTTOM	45.	5331800	1	STEM	
18.	4152100	1	PIN					
19.	3762200	1	O-RING		4796200	1	MOTOR RUBBER PROTECTION COVER	
20.	3761000	1	MOTOR UNIT	47.	5331900	1	STEM LOCK NUT	
21.	3235600	1	O-RING					
22.	4174200	1	QUICK KIT WITH SPRING					
23.	4177400	1	GASKET KIT 3 PIECES					

3.2 - SPARE PARTS OF THE MOTOR UNIT (KIT 20)





ŀ	REF.	P/N		Q.TY	DESCRIPTION				
Fig.	3.2 - A	37610	00	1	MOTOR UNIT (20)				
REF.	P/N	Q.TY	DE	SCRIPTIO	ON	REF.	P/N	Q.TY	DESCRIPTION
1.	3763400	1	PLA	NET WHE	EL HOLDER	8.	3327300	1	BEARING
2.	3763300	1	BEA	ARING		9.	3327400	1	REAR PLATE
3.	3763200	3	PLA	NET WHE	EL	10.	3327000	1	STATOR
4.	3327500	1	BEA	BEARING		11.	3326900	1	FRONT PLATE
5.	3523400	1	RO	FOR		12.	3763700	1	SPACER
6.	3327100	5	FIN			13.	3763600	1	CROWN WHEEL
7.	3327200	1	RO	LLER		14.	3763500	1	SNAP RING

NOTE: When placing an order, please indicate always the REF. number, PART NUMBER and DESCRIPTION.

3.3 - ORDERING SPARE PARTS

Remember that only local authorised dealers are permitted to repair the tool. Failing this, contact the Technical Assistance Service of Crossroad Distributor Source, where qualified engineers avail of the correct tools and original spare parts to solve any problems.

Follow the instructions given in section 1.2. to order the spare parts previously listed.



4 - SAFETY

4.1 - GENERAL WARNINGS

The operator must read carefully the information given in the present manual, especially with regard to the safety precautions listed in this chapter.

The operator must also observe the warnings listed below:

- The tool shall be used exclusively by trained personnel.
- The tool and the work area shall be kept clean and tidy.
- The tool shall be rested upright on the rubber base on a flat surface to prevent it from dropping.
- The tool shall only be used in normal psychophysical conditions.
- The user shall wear suitable clothing taking care to avoid entanglement of loose parts, ties, long hair, cleaning rags etc. in the tool itself.
- When using the tool, the wearing of safety glasses is required both by the operator and others in the vicinity to protect against fastener ejection. Besides we recommend wearing gloves when using the tool.
- The user shall use the accessories supplied and indicated in the 'servicing' chapter (see chapter 7) when servicing and/or adjusting the tool.
- The plates applied on the tool by Crossroad Distributor Source shall not be removed or altered.
- Unauthorized personnel shall not be allowed to touch the tool.
- Make sure that the air supply hoses are correctly sized for the use envisaged.
- Do not drag the tool holding it by the hose when it is connected to the power supply. Keep the hose away from sources of heat and from sharp objects.
- Remember to remove service or adjustment keys after having carried out repair and/or adjustment jobs.
- Before disconnecting the compressed air hose from the tool, ensure it is not pressurized.
- Tool repairs and cleaning jobs must be carried out with the tool disconnected from the power supply.
- When filling with oil, only use fluids with the characteristics indicated herein.
- If you should accidentally spill oil on your skin, rinse and wash thoroughly with water and alkaline soap.
- Where possible use a safety balance to support the tool.
- Pay attention to possible risk of whiplash with the air supply hoses.
- Do not operate the tool when it is directed towards any person(s) or the operator.

4.2 - INTENDED USE

The tool is designed exclusively to be used with LOKSERT as described in section 2.1

4.3 - OPERATING CONTRAINDICATIONS

The tool shall not be used:

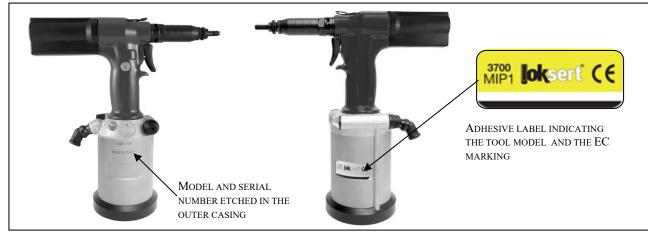
- For purposes different to those listed in previous para 4.2.
- In explosive or aggressive atmosphere or when there is an excessive amount of dust or oil in the air.
- In atmosphere subject to the risk of fire.
- When it is exposed to weather conditions.

4.4 - **RESIDUE RISKS**

During the normal working cycle and when servicing the tool, the operators are exposed to some residue risks which, due to the nature of the operations to be carried out, cannot be totally eliminated.

• Risk of breakage of the supply hose due to the fact that it contains compressed air. It is therefore absolutely crucial not to exceed the maximum pressure indicated in the technical data (see section 2.5).

4.5 - IDENTIFICATION/SERIAL NUMBER



5 - INSTALLATION

5.1 - TRANSPORT AND HANDLING

The tool can be hand carried. You are recommended to store the tool in its case after using it. The tool can be transported safely if it is has been correctly put away in its case.



Damages to the tool caused during transport and/or handling are **not covered by WARRANTY**. Repairs or replacements of damaged parts are at Customer's charge.

5.2 - STORAGE

If you are not going to use the tool for a long time, you must put it away according to the following suggestions: • Store the tool indoors.

- Protect the tool from impacts and stresses by keeping it in its case.
- Protect the tool from damp and excessive thermal excursions.
- Keep the tool away from corrosive substances.

5.3 - CONNECTIONS

To avoid all sorts of problems when starting the tool you are recommended to observe the following.

5.3.1 - PNEUMATIC

The pneumatic line is connected by mean of a quick-release coupling hose to be attached to the supple air connection, thread 1/4"+1/4" gas, supplied with the tool.

The air supply hose must be flexible and must meet the safety requirements of the pressurised products.



5.4 - AIR SUPPLY

The air supply line must be free from dirt and damp to prevent the early wear of the moving components of the tool. You are therefore recommended to use dry air: i.e. not greased.

5.5 - PRELIMINARY CHECKS

Before using the tool you must make a few inspections and checks in order to prevent errors or accidents.

- Check if the tool has been damaged during transport.
- Check if the compressed air hose is perfectly connected to the air supply line.
- Check if the tool turns freely and if the motor runs freely.



6.1 - OPERATORS

The tool is designed to be used by one operator only.

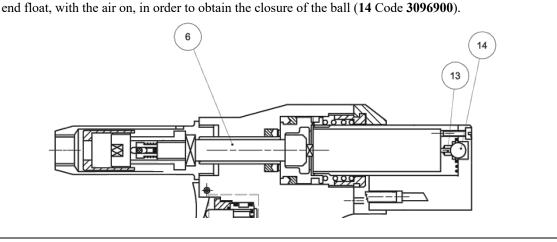
Tool operators must satisfy the requirements stated hereafter (or they must be informed and trained accordingly). They must be aware of the manual herein and of all information relevant to safety:

- They must have some general and technical education with the ability to understand the manual and to interpret the drawings and the diagrams correctly.
- They must be acquainted with the main hygienic rules, and with the industrial-safety and technological instructions.
- They must have an overall knowledge of the line and of the factory in which the tool is installed.
- They must know what to do in case of emergency, where to find the individual protection means and how to use them correctly.

Together with the above-mentioned requirements, the service technicians must also have an appropriate technical training.

MOTOR SCREWING

P 1 When the rotating pin (6 Code **4151500**) is broken and you replace it, it may happen that the motor rotates continuously, which means that the shaft (**13** Code **3761300**) is too long; in this case it will have to be shortened by a few tenths to obtain the closure of the ball (**14** Code **3096900**). When the air is on, the shaft shall have no end float. Unlike the situation above, the shaft is too short and it has to be replaced with a new one, fitting it without



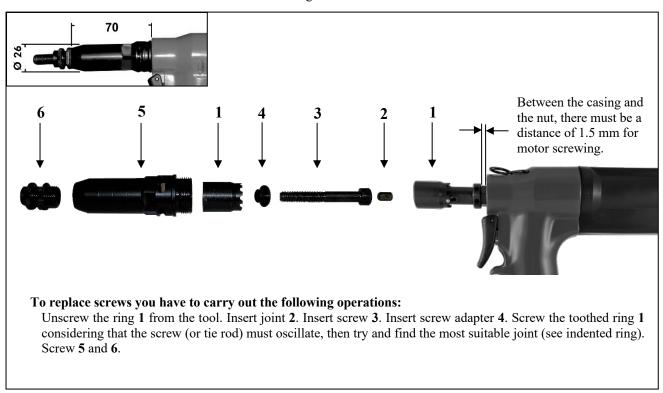


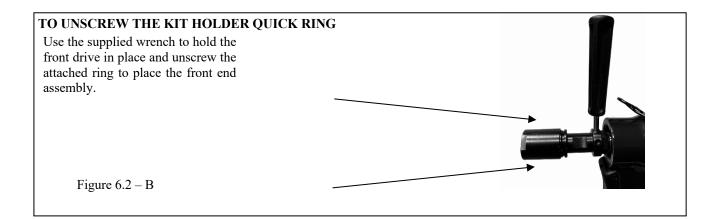
6.2 - TOOL PREPARATION AND SCREW REPLACEMENT



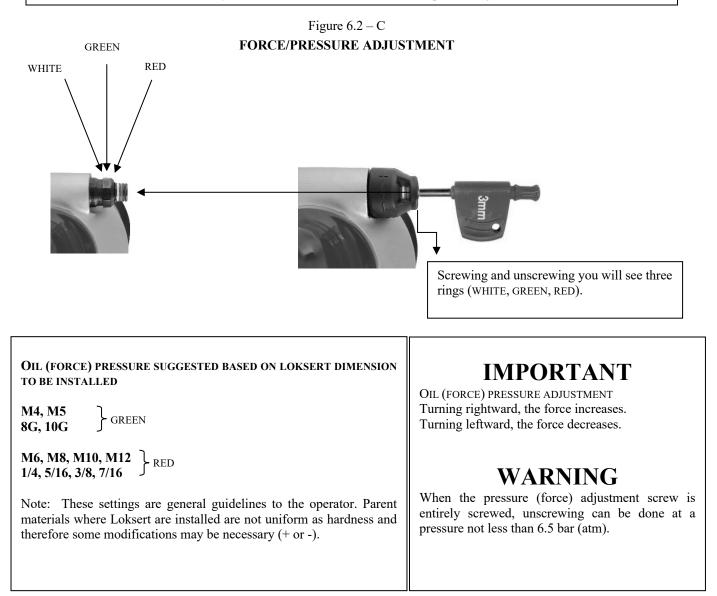
<u>Warning:</u> Tool setting and screw replacement must be carried out with the tool disconnected from the air supply line.







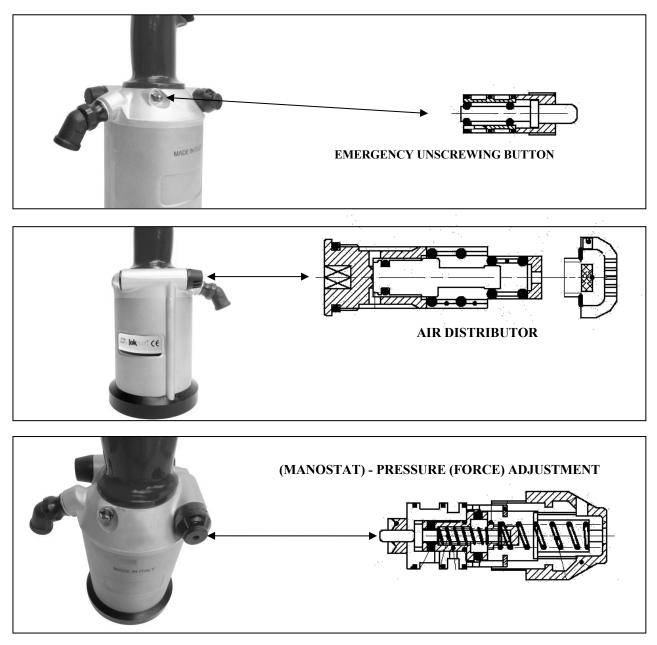






6.3 - INFORMATION

To be used in case the LOKSERT gets stuck in the hole.





7 - SERVICING THE TOOL

7.1 - MAINTENANCE STATUS

Maintenance operations must be carried out with the tool disconnected from the pneumatic supply line.

Warnings:

- The tool maintenance instructions must be followed carefully.
- To ensure safety and perfect tool efficiency use only ORIGINAL spare parts.

7.2 - CLEANING

Tool must be completely cleaned and greased periodically, depending on the usage of the tool, but at least once per year.

(\	Shut-off all sources of power to the tool. The operator must wear and use suitable personal protections before starting to clean the tool.
P 3	

7.3 - ORDINARY MAINTENANCE

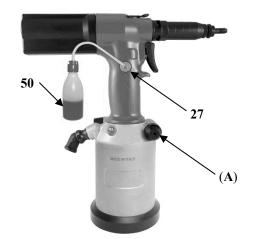
In order to prevent stoppages and faults of the tool, an ordinary maintenance (including inspections, checks and operations) must be scheduled to keep the following under systematic control:

- state of lubrication of the tool.
- state of wear of consumables.

7.3.1 - REFILLING THE HYDRAULIC CIRCUIT WITH OIL

Figure 7.3 – A

The hydraulic circuit needs to be refilled with oil after a continuous use, and when you notice a reduction in the tool stroke.



Proceed as follows (see Picture 7.3-A):

- Disconnect the air line from the tool inlet.
- Unscrew the manostat (A) with relevant wrench 54;
- Remove cap together with relevant washer 27.
- Put the tool in horizontal position and slowly pour in the hydraulic oil (ISO VG 32 type) 50 until the circuit is full.
- Screw cap back on, together with relevant washer 27
- Connect the tool to compressed airline and start up a couple of idle cycles (do not pull trigger anymore), unscrew cap 27, and make sure that the circuit is full with oil and that no air bubbles are left inside.

Wear gloves when managing the oil.

<u>Do not</u> throw the old oil outdoors but hand it over to an authorised waste disposal centre.

<u>Warning</u>!: if you should accidentally spill oil on your skin, wash and rinse thoroughly with water and alkaline soap.

7.3.2 - PARTS SUBJECT TO WEAR

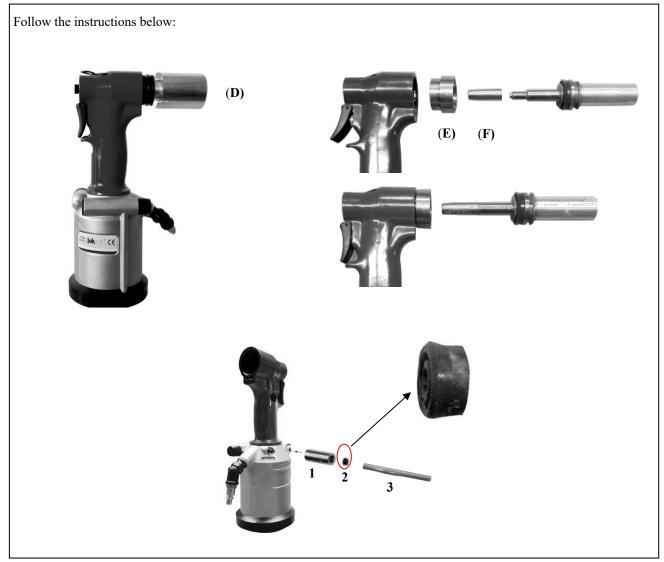
On a periodic basis check the state of wear of the rubber base, as this is what ensures the stability of the tool. If it should need replacing, order the spare base from Crossroad Distributor Source indicating the year/serial number of the tool (see section 4.5).

On a periodic basis check the state of wear of the screws and of the heads and, if necessary, replace them as indicated in section 6.2.

Spare parts are to be ordered exclusively from Crossroad Distributor Source, specifying the codes listed in section 3.1.



7.4 - MAINTENANCE KIT ON REQUEST



Ref.	P/N	Q.TY	DESCRIPTION	
D.	4461800	1	MILLED SLEEVE TO SCREW AND UNSCREW THE RING NUT (10)	Sector Sector
E.	4461900	1	BUSH FOR INTRODUCTION OF ROTATING PIN (6) FITTED WITH GASKET	
F.	4461700	1	THREAD PROTECTOR METAL FERRULE FOR INSERTION OF ROTATING PIN (6) to avoid damages to the gasket in the KIT (26)	
1.+ 3.	4380800	1	GUIDE BUSH + ALUMINIUM CYLINDRICAL PIN Ø 8x78 to insert ø 9 lip seal, located at the bottom of the manostat (ref. C)	
2.	-	1	Ø 9 LIP SEAL GASKET (REF. C) belonging to KIT (41)	

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8 - FAULT DIAGNOSIS

8.1 - POSSIBLE FAULTS

	O-ring Cod. 4371800
CAUSE	Rемеру
Traction is not correctly performer.	Lack of oil [see para. 7.3.1].
Unscrew without traction.	Or (B) broken: replace it. BO O-ring Code 4371800
Slows the unscrewing after traction.	Working intensively it loses greasing and tends to harden. Remove the piston (G), and grease. G
Replacing parts of the manostat.	 O¹ O² O³ O³ O³ O³ O³ O⁴ O⁴ O⁴ O⁴ O⁴ O⁴ O⁴ O⁴



HydroPneumatic tool for LOKSERT with oil pressure adjustment

3700-MIP1

CAUSE	Remedy	
The transition time from stroke to unscrewing slows.	Open the manostat and pull the piston out (G), grease it and reassemble it.	
Air leaks from muffler (T).	Check the two o-rings (O4) and o-ring (21 code 3235600 which could be worn or broken.	
MOTOR screwing	When the rotating pin (6 Code 4151500) is broken and motor rotates continuously, which means that the shaft (13 Code 3761300) is too long; in this case it will have to be shortened by a few tenths to obtain the closure of the ball (14 Code 3096900). Unlike the situation above, the shaft is too short and it h	
	fitting it without end float, with the air on, in order to ob ball (14 Code 3096900).	
Loss of rev. during unscrewing.	When you are working intensely there is likely to be revolutions in the unscrewing; it is necessary to remove and add a few drops of oil in the air hose connection (Re enter the air by turning the engine with button (P) for minutes.	the air hose f. 34) and re-
Air leaks from air distributor.	In case of loss of air from the air distributor, the plate of	the piston is broken.

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9 - FAULT DIAGNOSIS AND REPAIRS

9.1 - REPAIRS

To ensure the operational efficiency and safety of the tool, all repair jobs shall be carried out exclusively by the local authorised dealer or by the Technical Assistance Service of Crossroad Distributor Source (see section 1.2).

9.2 - **REQUESTING ASSISTANCE**

For any information concerning Use, Maintenance, Installation, Repair and so on, Crossroad Distributor Source is at the Customer's full disposal for all enquiries.

When making enquiries the customer is requested to be absolutely clear and to make always reference to this Manual and, in particular, to the instructions given in section 1.2.

10 - DISMANTLING INSTRUCTIONS

10.1 - DISMANTLING INSTRUCTIONS

When demolishing the tool you need to separate the plastic parts, which are to be disposed of in compliance with current Regulations.

As for the bulk metal part of the tool, simply split-up the steel parts from those in other metals or alloys and send to be melted down and recycled.

The oil drained from the tool must not be thrown outdoors but handed over to an authorised spent oil disposal centre.

11.1 - DECLARATION

11 - ENCLOSED DOCUMENTS

The following declaration is enclosed:

• Declaration of Conformity to DIRECTIVE 2006/42/EC.



NOTES



NOTES



DECLARATION OF CONFORMITY

Bordo Europe Dendermonde, Belgium

DECLARE

in the person of:

Iain Brown

(Director)

under our sole responsibility that the tool

3700-MIP1

Serial No. : 3700-114

to which this declaration relates is:

IN CONFORMITY

with the provisions of the Machine Directive 2006/42/EC

Technical documentation at:

Bordo Europe BVBA Industrieweg 2 (BAA) B-9200 DENDERMONDE

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Dendermonde, *18/05/2018*





Crossroad Distributor Source 15340 Herriman Blvd Noblesville, IN 46060 317.723.5050 sales@crossroad.bz