

Instruction Manual Model# RK-8000LS



For sales, service or support call your local distributor or:

1800-BUY-RIVET or 1-800-289-7483

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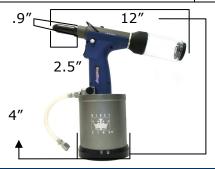
SAFETY

- DO NOT USE OUTSIDE DEISNG INTENT OR WITH EQUIPMENT THAT IS NOT RECOMMENDED BY THE MANUFACTURER.
- ALWAYS DISCONNECT THE AIR SUPPLY BEFORE ATTEMPTING ANY MAINTENANCE OR ADJUSTMENT/FITTING OF NOSE EQUIPMENT
- DO NOT OPERATE A TOOL THAT IS DIRECTED TOWARDS ANY PERSON(S) OR WITH THE MANDREL CATCHER OFF THE TOOL
- ALL MODIFICATIONS CARRIED OUT ON THE TOOL WITHOUT EXPRESS WRITTEN CONSENT OF THE MANUFACTURER SHALL BE DONE SO AT THE CUSTOMERS' SOLE RESPONSIBILITY
- REFER TO THIS MANUAL BEFORE ATTEMPTING ANY MAINTENANCE OPERATION. DO NOT DISASSEMBLE THIS TOOL BEFORE RFERING TO THIS MANUAL.
- AVOID EXCESSIVE CONTACT WITH HYDRAULIC OIL, AS SOON AS POSSIBLE WASH HANDS THOROUGHLY
- DO NOT EXCEED 7 BAR / 100 PSI INLET PRESSURE, THE USE OF A PRESSURE REGULATOR IS HIGHLY RECOMMENDED
- INSPECT THE TOOL USING PREVENTITIVE MAINTENANCE TECHNIQUES AT REUGULARLY SCHEDULED INTERVALS. INSPECT FOR DAMAGE AND FUNCTION BY TRAINED COMPETANT PERSONEL. REPLACE THE PNEUMATIC CYLINDER HOUSING OR HYDRAUILIC CYLINDER HOUSING WHERNEVER THERE IS EVIDANEC OF IMPACT DAMAGE, CHIPPING, OR CRACKING.
- WEAR SAFETY GLASSES AND ADOPT FIRM FOOTING DURING OPERATION.

SPECIFICATIONS

The specifications and information contained in this manual are applicable only to the tool with which it was supplied. Industrial Rivet & Fastener Co reserve the right to make any changes without notice as part of Industrial Rivet & Fastener Co policy of continuous improvement.

Specifications for RK-8000LS Rivet Tool		
Air Pressure	75-100psi	Min/Max
Stroke	1.05 Inches	
Pull Force	3,400 lbsF	@90psi
Cycle Time	0.9 seconds	Approximately
Noise Level	75 dB(A)	Less than
Weight	3.74 lbs	
Vibration	2.5m/s2	Less than
Hydraulic Oil	Mobil DTFE 24	
Nose Pieces	5/32, 3/16 , 1/4, 3/16 Monobolt 1/4 Monobolt	All material rivets
Nose Pieces	1/8	Purchased Separately



12.5"

AIR SUPPLY

- The rivet tool is powered by compressed air at an optimum pressure of 85 psi. Do not exceed 90 PSI of air pressure. Explosion and harm to operators can result.
- The use of a pressure regulator filter/lubricator unit within 3 meters of the tool is highly recommended to extend the life of the tool.

Dirt and/or water in the air supply can seriously impact the performance and durability of the tool; damage to the tool caused by contaminated air supply is not covered under warranty.

OPERATION

- Inspect for damage
- 2. Connect the tool to the air supply
- Choose and securely install the applicable nose piece for the rivets you wish to apply. A ¼" flat face nose piece is installed as standard.
- Adjust the vacuum until rivet is held in the nose piece while tool is pointed downward and such that the mandrel after actuation flows to the back of the tool in any position...
 - **a.** Adjust vacuum by rotating the valve located at left of the blue handle.



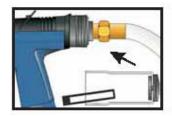
Fig 1
VACUUM ON (COUNTERCLOCKWISE)

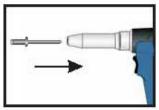


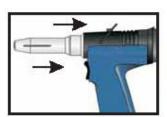
FIG 2
VACUUM OFF (CLOCKWISE)

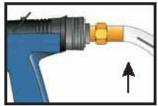
- Bring the tool and the rivet into the application hole. Insure the rivet head flat onto surface
- Fully actuate the trigger. The tool will cycle and set the rivet while ejecting the nail into the rear mandrel catcher.
- The Empty catcher when at 50% capacity

When the tool is in use for extended periods of time in a stationary production environment, a hose can be fitted to the rear of the tool to assist in the mass collection of mandrel. Contact the sales department for associated parts.



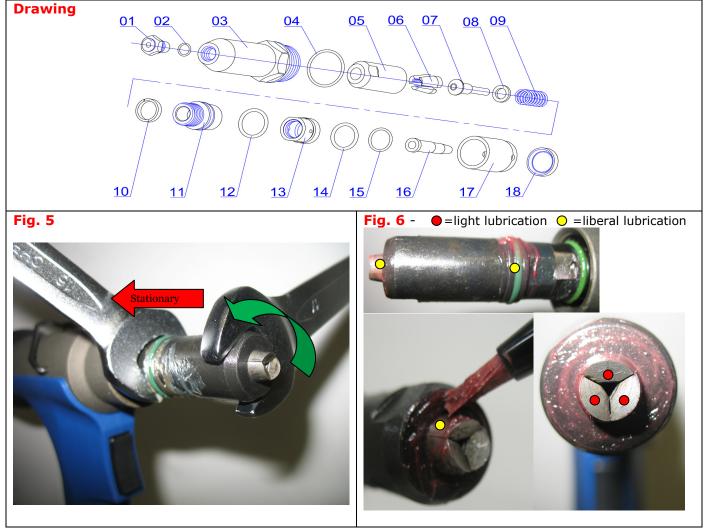






JAW CLEANING PROCEDURE / JAMMED GUN REMEDY

- 1. Disconnect tool from air supply
- **2.** Leaving the nose piece attached, remove the nose case **3** using the wrench provided by loosening at the wrench point.
- **3.** Fit two wrenches, one on Jaw Case **05** and the other on **11** keeping the nut **11** <u>stationary</u> while unscrewing the jaw casing **05**. It is important that you only unscrew the nut closest to the jaws (jaw casing) **05**. **DO NUT ADJUST SET NUT 13**. **See Fig. 5**
- **4.** Take care during removal as this jaw casing is spring loaded and contains 3 small jaws **06**, a jaw pusher **07**, washer **08**, and a spring **09**. Do not lose these pieces. Inspect **06**, **07**, **08**, **09** for wear, cracks or damage. Replace as necessary.
- **5.** Once removed if a mandrel has jammed the tool, dislodge the mandrel from the jaws, discard mandrel.
- **6.** Clean Jaws **06** with a mineral spirit then and coat outside of jaws (outside only) with a drop of clean oil or a light layer of red / white grease . Be sure to coat the outside of the jaws only. **See Fig. 6.** Oil is preferred.
- 7. Replace jaws into jaw case 05.
- **8.** Followed by jaw pusher **07**, and spring **09**, if necessary.
- **9.** Re-apply jaw case **05** securely onto **11** using a wrench keeping 11 stationary..
- 10. Reapply the nose case 03 securely to the tool
- **11.** Reattach air supply. Actuate tool without rivet. Check Function.



MAINTENANCE

IMPORTANT: DISCONNECT THE TOOL FROM THE AIR SUPPLY OR SWITCH OFF AT VALVE (54). REMOVE NOSE ASSEMBLY OR SWIVEL HEAD COMPONENTS. All operations should be carried out on a clean bench, with clean hands in a clean area. Ensure that the new oil is perfectly clean and free from air bubbles. Care MUST be taken at all times, to ensure that no foreign matter enters the tool, or serious damage may result.

Oil Priming

After 100,000 cycles, or when the tool loses enough stroke and/or power to place rivets in one actuation, a priming procedure may be required. Please use the oil provided with the tool. Replacements are available at 1-800-BUY-RIVET.

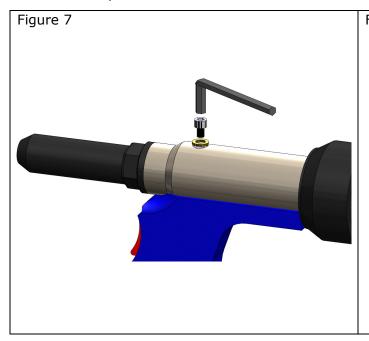


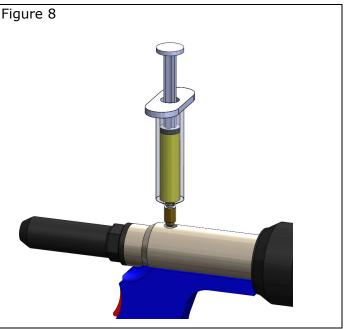
Do not remove the bleed screw unless you have extensive knowledge in the maintenance of hydraulic tools.

- The bleed screw IS NOT AN ADJUSTMENT.
- Removal of the bleed screw WILL NOT FIX A JAMED GUN.
- If the bleed screw is loosed, even slightly, oil will leak out of the tool which may create an air bubble in hydraulic system causing loss of stroke and stroke cavitation.
- If the bleed screw is loosed or the oil priming procedure is attempted without proper training, the tool will need to be returned to the service center for maintenance and a labor fee may be charged.

Oil Priming Procedure (For trained personnel only! See above!)

- Disconnect air supply to tool and switch ON/OFF valve (54) to OFF position.
- Remove bleed screw(76) and seal(75).(see Fig 7)
- Fill the syringe(priming pump) with oil and screw it into the bleed screw hole. Actuate the pump be pressing down and releasing several times until resistance is felt. Overfilling the tool with oil and actuating it may result in hydraulic body fractures. (see Fig 8)
- Remove the priming pump and the excessive oil will flow out. Then clean out the excessive oil and replace the bleed screw and seal.





MAINTENANCE (CONTINUED)

Valve Spool Assembly Maintenance

Send into authorized repair center for service.

Trigger Maintenance Procedure

- Inspect trigger pin valve by insuring **35** has not come loose. The proper depth should be just under the valve stem.
- If adjustment is necessary using a fork wrench or tire valve tool, screw the trigger pin **34** into the valve stem. A very small amount of loctite243 is ok around the threaded portion only.
- If the trigger still fails, remove the trigger pin assembly from the valve stem and inspect the seal around the trigger pin for damage. If damaged, purchase a replacement part. Reassemble according to the previous step.

PREVENTIVE MAINTENANCE

In order to maintain the tool in a safe working order it is important to carry out regular maintenance as prescribed by the manufacturer. A thorough inspection replacement of all seals within the tool should be carried out after 500,000 actuations or annually, whichever is the sooner. Seal Life is dependent on the size of the rivet applied, the frequency of use in one minute, the cleanliness of the tool, proper maintenance within the time interval suggested and total number of actuations. The seal life is a limited warranty item and should only be replaced by trained personnel. Item numbers in parentheses refer to assembly drawing part numbers

Daily

- Check for air leaks. Any damaged hoses should be replaced
- Lubricate the tool by pouring a 1 drop of the enclosed lubricating oil into the air inlet on the tool
- If there is no pressure regulator, bleed the airline to clear it of accumulated dirt or water before connecting the air hose to the tool. If there is a filter, drain it.
- Check for proper nose piece use depending on the size of the rivet.
- Remove front jaw nose assembly and clean all visible areas beneath the Nose Cap (3) with an air hose to remove metal shavings and debris. Remove jaw housing as necessary and consumable parts thoroughly with mineral spirits. Inspect for cracks or other damage to jaw or nose area. Replace if necessary.
- Insure that rotary valve for the vacuum on the mandrel collection unit is correctly adjusted for fastener retention

<u>Weekly</u>

- Carry out procedures as per daily maintenance instructions above
- Clean and inspect the jaws for signs of damage or wear (groove running through the jaw serrations). Follow the instructions on page 4 for cleaning of jaws. Reassemble the tail jaws with a light coating of red grease on the outer face that contacts the jaw housing. Do not allow grease to contaminate the grooved inner face of the jaws as mandrel slippage may result.

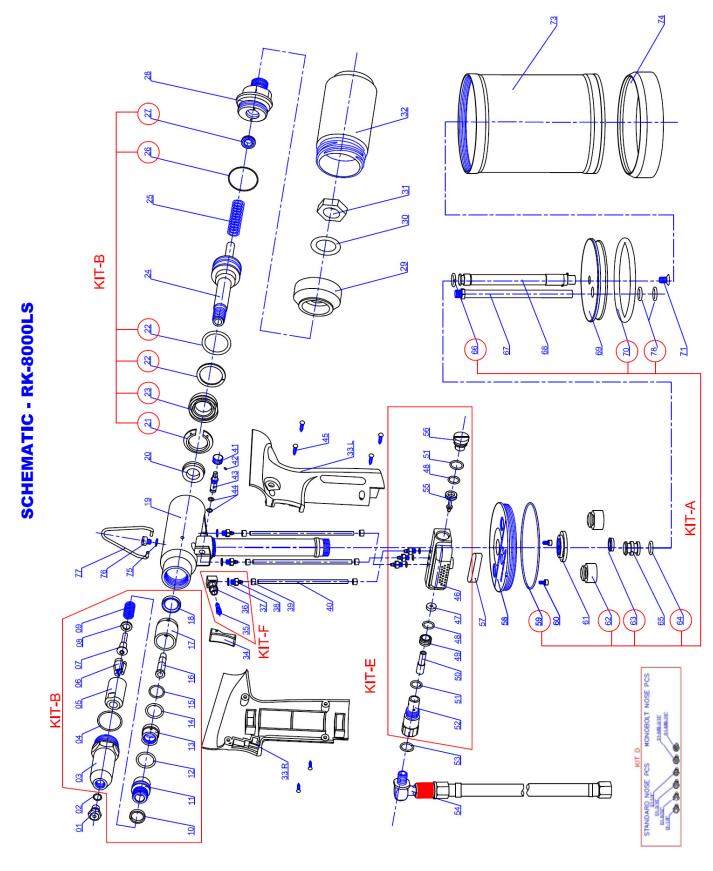
Monthly

- Carry out procedures as per weekly maintenance instructions above
- Check and replace cylinder bodies if there are signs of damage or cracks.

Semi-Annually

- Carry out procedures as per monthly maintenance instructions above
- Check that the stroke is greater than 1.0". If less, follow bleeding procedure.
- Depending on the frequency of use, further maintenance may be required to replace the hydraulic seals.

SCHEMATIC



SERVICE KITS & SPARE

	PARTS		
No.	Part #	Description	Qty
01-1/4	RK8000LS-NS01-1/4	1/4 NOSEPIECE	1
01-3/16	RK8000LS-NS01-3/16	3/16 NOSEPIECE	1
01-5/32	RK8000LS-NS01-5/32	5/32 NOSEPIECE	1
01-1/8	RK8000LS-NS01-1/8	1/8 NOSEPIECE	1
01-MB-3/16	RK8000LS-MB-3/16	3/16 MONOBOL NOSEPIECE	1
01-MB-1/4	RK8000LS-MB-1/4	1/4 MONOBOL NOSEPIECE	1
2		O-RING	1
	RK8000LS-BP2		_
3	RK8000LS-BP3	NOSE CAP	1
4	RK8000LS-BP4	O-RING	1
5	RK8000LS-BP5	JAW HOUSING	1
6	RK8000LS-BP6	JAW SET(3PCS)	1
7	RK8000LS-BP7	PUSHER	1
8	RK8000LS-BP8	WASHER	1
9	RK8000LS-BP9	JAWS PUSHER SPRING	1
10	RK8000LS-BP10	LOCK RING	1
11	RK8000LS-BP11	UPPER HOUSING	1
			_
12	RK8000LS-BP12	O-RING	1
13	RK8000LS-BP13	SET NUT	1
14	RK8000LS-BP14	POLYURETHANE RING	1
15	RK8000LS-BP15	O-RING	1
16	RK8000LS-BP16	VACCUM SLEEVE	1
17	RK8000LS-BP17	PLASTIC SEALING SLEEVE	1
18	RK8000LS-BP18	SEAL RING	1
			<u> </u>
19	RK8000LS-BP19	OIL CYLINDER	1
20	RK8000LS-BP20	O-RING	1
21	RK8000LS-BP21	RETAINING NUT	1
22	RK8000LS-BP22	O-RING	2
23	RK8000LS-BP23	O-RING	1
24	RK8000LS-BP24	PRINCIPAL AXIS UNIT	1
25	RK8000LS-BP25	SPRING	1
	RK8000LS-BP26		_
26		O-RING	1
27	RK8000LS-BP27	O-RING	2
28	RK8000LS-BP28	CAP	1
29	RK8000LS-BP29	LINKER COBER	1
30	RK8000LS-BP30	GASKET	1
31	RK8000LS-BP31	NUT	1
32	RK8000LS-BP32	NAIL CONTAINER	1
33			1
	RK8000LS-BP33L	HANDLE(LEFT)	
33	RK8000LS-BP33R	HANDLE(RIGHT)	1
34	RK8000LS-BP34	TRIGGER	1
35	RK8000LS-BP35	TRIGGER VALVE	1
36	RK8000LS-BP36	ON/OFF BASE	1
37	RK8000LS-BP37	O-RING	6
38	RK8000LS-BP38	AIR INTERFACE	6
39	RK8000LS-BP39	RESTRAIN RING	6
40	RK8000LS-BP40	AIR TUBE	3
41	RK8000LS-BP41	ADJUSTING BUTTON	1
42	RK8000LS-BP42	RETAINING SCREW	1
43	RK8000LS-BP43	VACCUM VALVE	1
44	RK8000LS-BP44	O-RING	2
45	RK8000LS-BP45	TAPPING SCREW	4
46	RK8000LS-BP46	AIR VALVE BODY	1
			-
47	RK8000LS-BP47	AIR VALVE RING	1
48	RK8000LS-BP48	O-RING	2
49	RK8000LS-BP49	AIR VALVE BASE	1
50	RK8000LS-BP50	SUBORDINATE TUBE	1
51	RK8000LS-BP51	O-RING	2
52	RK8000LS-BP52	CONNECTIONG BASE	1
53	RK8000LS-BP53	O-RING	1
			_
54	RK8000LS-BP54	ON/OFF ASSEMBLY	1
55	RK8000LS-BP55	VALVE ROD	1
56	RK8000LS-BP56	SCREW PLUG	1
57	RK8000LS-BP57	SILENCER FILTER	1
58	RK8000LS-BP58	CYLINDER COVER	1
59	RK8000LS-BP59	O-RING	1
60	RK8000LS-BP60	BOLT	2
61	RK8000LS-BP61	ROCK NUT	1
62	RK8000LS-BP62	BUFFER	2
63	RK8000LS-BP63	SEAL RING	1
64	RK8000LS-BP64	O-RING	1
65	RK8000LS-BP65	AIR TUBE PISTON	1
66	RK8000LS-BP66	PISTON RING	1
67	RK8000LS-BP67	TRANSFER TUBE	1
68	RK8000LS-BP68	PISTON ROD	1
69	RK8000LS-BP69	CYLINDER PISTON	1
70	RK8000LS-BP70	O-RING	1
71	RK8000LS-BP71	BOLT	1
72	RK8000LS-BP72	O-RING	1
	RK8000LS-BP73	CYLINDER	1
73		LOILINDEN	
73		BASE CORED	- 4
73 74 75	RK8000LS-BP74 RK8000LS-BP75	BASE COBER O-RING	1

	PART	S LIST	
No.	Part #	Description	Qty
77	RK8000LS-BP77	ноок	1
78	RK8000LS-BP78	WRENCHED	3
79	RK8000LS-BP79	TOOL BOX	1
80	RK8000LS-BP80	SYRINGE	1
81	RK8000LS-BP81	HYDRAULIC OIL	1
		8000LS-BPKA	
		AULIC SEAL KIT	
No.	Part #	Description	Qty
59 62	RK8000LS-BP59 RK8000LS-BP62	O-RING BUFFER	2
63	RK8000LS-BP63	SEAL RING	1
64	RK8000LS-BP64	O-RING	1
66	RK8000LS-BP66	PISTON RING	1
70	RK8000LS-BP70	O-RING	1
72	RK8000LS-BP72	O-RING	1
	KIT B - #RK	8000LS-BPKB	
	NOSE	HEAD KIT	
No.	Part #	Description	Qty
3	RK8000LS-BP3	NOSE CAP	1
4	RK8000LS-BP4	O-RING	1
5 6	RK8000LS-BP5	JAW HOUSING	1
7	RK8000LS-BP6 RK8000LS-BP7	JAW SET(3PCS) PUSHER	1
8	RK8000LS-BP8	WASHER	1
9	RK8000LS-BP9	JAWS PUSHER SPRING	1
10	RK8000LS-BP10	LOCK RING	1
11	RK8000LS-BP11	UPPER HOUSING	1
12	RK8000LS-BP12	O-RING	1
13	RK8000LS-BP13	SET NUT	1
14	RK8000LS-BP14	POLYURETHANE RING	1
15	RK8000LS-BP15	O-RING	1
16	RK8000LS-BP16	VACCUM SLEEVE	1
17	RK8000LS-BP17	PLASTIC SEALING SLEEV	1
18	RK8000LS-BP18	SEAL RING	1
KIT C - #RK8000LS-BPKC			
No	UPPER HYDRA		Oty
No.	Part #	Description	Qty
No. 20 21	Part # RK8000LS-BP20	Description O-RING	
20	Part #	Description	1
20 21	Part # RK8000LS-BP20 RK8000LS-BP21	Description O-RING RETAINING NUT	1
20 21 22	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22	Description O-RING RETAINING NUT O-RING	1 1 2
20 21 22 23	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23	Description O-RING RETAINING NUT O-RING O-RING	1 1 2
20 21 22 23 26	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23 RK8000LS-BP26 RK8000LS-BP27 KIT D - #RK	Description O-RING RETAINING NUT O-RING O-RING O-RING O-RING O-RING	1 1 2 1
20 21 22 23 26 27	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23 RK8000LS-BP26 RK8000LS-BP27 KIT D - #RK NOSE	Description O-RING RETAINING NUT O-RING O-RING O-RING O-RING O-RING BOOOLS-BPKD PIEGE KIT	1 1 2 1 1 2
20 21 22 23 26 27	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23 RK8000LS-BP26 RK8000LS-BP27 KIT D - #RK NOSE Part #	Description O-RING RETAINING NUT O-RING O-RING O-RING O-RING PIEGE KIT Description	1 2 1 1 2 Qty
20 21 22 23 26 27 No.	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23 RK8000LS-BP26 RK8000LS-BP27 KIT D - #RK NOSE Part # RK8000LS-NS01-1/4	Description O-RING RETAINING NUT O-RING O-RING O-RING O-RING BOOOLS-BPKD PIECE KIT Description 1/4 NOSEPIECE	1 2 1 1 2 Qty 1
20 21 22 23 26 27 No. 01-1/4 01-3/16	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23 RK8000LS-BP26 RK8000LS-BP27 KIT D - #RK NOSE Part # RK8000LS-NS01-1/4 RK8000LS-NS01-3/16	Description O-RING RETAINING NUT O-RING O-RING O-RING O-RING SOOD-S-BPKD PIEGE KIT Description 1/4 NOSEPIECE 3/16 NOSEPIECE	1 1 2 1 1 2 Qty 1
20 21 22 23 26 27 No. 01-1/4 01-3/16 01-5/32	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23 RK8000LS-BP26 RK8000LS-BP27 KIT D - #RK NOSE Part # RK8000LS-NS01-1/4 RK8000LS-NS01-3/16 RK8000LS-NS01-3/16	Description O-RING RETAINING NUT O-RING O-RING O-RING O-RING O-RING BOOLS-BPKD PIEGE KIT Description 1/4 NOSEPIECE 5/32 NOSEPIECE	1 1 2 1 1 2 Qty 1 1
20 21 22 23 26 27 No. 01-1/4 01-3/16 01-5/32 01-1/8	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23 RK8000LS-BP26 RK8000LS-BP27 KIT D - #RK NOSE Part # RK8000LS-NS01-1/4 RK8000LS-NS01-3/16 RK8000LS-NS01-5/32 RK8000LS-NS01-1/8	Description O-RING RETAINING NUT O-RING O-RING O-RING O-RING BOOOLS-BPKD PIECE KIT Description 1/4 NOSEPIECE 5/32 NOSEPIECE 1/8 NOSEPIECE	1 1 2 1 1 2 Qty 1
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20 21 22 23 26 27 No. 01-1/4 01-3/16 01-5/32 01-1/8	Part # RK8000LS-BP20 RK8000LS-BP21 RK8000LS-BP22 RK8000LS-BP23 RK8000LS-BP26 RK8000LS-BP27 KIT D - #RK NOSE Part # RK8000LS-NS01-1/4 RK8000LS-NS01-3/16 RK8000LS-NS01-3/16 RK8000LS-MS-3/16 RK8000LS-MS-3/16 RK8000LS-MB-3/16 RK8000LS-MB-3/16	Description O-RING RETAINING NUT O-RING O-RING O-RING O-RING SOOOLS-BPKD PIEGE KIT Description 1/4 NOSEPIECE 3/16 NOSEPIECE 1/8 NOSEPIECE 1/8 NOSEPIECE 1/8 NOSEPIECE 1/4 MONOBOL	1 1 2 1 1 2 Qty 1 1 1 1
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OIL MATERIAL SAFETY DATA SHEET (MSDS)

Priming is ALWAYS necessary after the tool has been dismantled and prior to operating. It may also be necessary to restore the full stroke after considerable use, when the stroke may be reduced and fasteners are not fully placed by one operation of the trigger

Oil Details

The recommended oil for priming is Mobil DTE 24 or Hyspin VG32 available in 0.51 or one gallon containers, or, you can use 30W hydraulic oil. Please see safety data below.

Mobil DTE 24 or Hyspin VG 32 Oil Safety Data

First Aid

SKIN:

Wash thoroughly with soap and water as soon as possible. Casual or short term contact requires no immediate attention.

INGESTION:

Seek medical attention immediately. DO NOT induce vomiting.

FYFS:

Irrigate immediately with water for several minutes. Although NOT a primary irritant, minor irritation may occur following contact.

Fire

Flash point 232°C. Not classified as flammable.

Suitable extinguishing media: CO₂, dry powder, foam or water fog. DO NOT use water jets.

Environment

WASTE DISPOSAL: Through authorized contractor to a licensed site. May be incinerated. Used product may be sent for reclamation.

SPILLAGE: Prevent entry into drains, sewers, and water courses. Soak up with absorbent material.

Handling

Wear eye protection, impervious gloves (e.g. of PVC) and a plastic apron. Use in well ventilated area.

Storage

No special precautions.

Priming Kit

To enable you to follow the priming procedure opposite, you will need to obtain a priming kit:

PRIMING KIT: RK-8000LS		
PART NO	DESCRIPTION	
НО	Mobil DTE 24	
НО-В	Refill Bottle	

TROUBLESHOOTING

Item numbers in parentheses refer to assembly drawing part numbers on page 9.

Problem	Possible Cause	Remedy
More than	Air leak	Tighten joints or replace components
one	 Insufficient air pressure 	 Adjust air pressure to within specification
operation of	 Air Lubrication 	 Lubricate tool at air inlet point
the trigger	 Worn or broken jaws 	 Install new jaws
needed to	 Improper adjustment of set nut (13) 	 adjust set nut (13) clockwise 1 rotation
place	Low oil level or air bubble in hydraulic oil	 See Priming Procedure
fastener	Buildup of dirt inside the nose assembly	Service nose assembly
Tool will	Worn, broken or missing jaws	Fit new jaws
not grip	 Buildup of dirt inside the nose assembly 	 See Jaw Cleaning Procedure
stem of	 Loose jaw housing 	 Tighten against locking ring
fastener	 Weak or broken spring in nose assembly 	Fit new spring
rasteriei	 Incorrect component in nose assembly 	 Identify and replace
	Rotary valve incorrectly adjusted	Read 'Operation'
Jaws will	Buildup of dirt inside the nose assembly	See Jaw Cleaning Procedure
not release	Jaw housing, nose tip or nose casing not	 Tighten nose assembly and adjust if necessary
broken	properly seated	- Tigricen nose assembly and adjust it necessary
stem of	Improper adjustment of set nut (13)	 adjust set nut (13) counter-clockwise 1 rotation
fastener	Weak or broken spring in nose assembly	Fit new spring
iasteriei	Air Leak or Air pressure below 90 psi	 Tighten joints or replace components
	- All Leak of All pressure below 90 psi	
	- Law ail laval ay aiy bubbla in budwaylia ail	Adjust as in 'Operating Procedure' to 90 psi
1	Low oil level or air bubble in hydraulic oil	oce i i i i i i i i i i i i i i i i i i i
Jammed	 Broken stems jammed inside tool 	■ Empty mandrel collector
Gun /		Check if jaw pusher (7) is cracked/broken
Cannot		Check if Vacuum Sleeve (16) is cracked/broken
feed next		
fastener	 Rotary valve incorrectly adjusted 	Adjust vacuum pressure
	Air pressure below 90 psi	 Adjust as in 'Operating Procedure' to 90 psi
Slow cycle	 Lack of lubrication 	Lubricate tool at air inlet point
	 Low air pressure 	 Adjust air pressure to within specification
	 Low oil level or air bubble in hydraulic oil 	 See Priming Procedure
	Buildup of dirt inside the nose assembly	Service nose assembly
Tool fails to	 No air pressure 	 Adjust as in 'Operating Procedure' to 90 psi
operate	 On/Off switch is in off position 	 Slide On/Off sleeve (54) down until air is flowing
	 Damaged trigger valve 	 See 'Trigger Maintenance' Page 7
	 Loose pneumatic piston cover 	 Disconnect Air Pressure, Tighten all connections
	 Loose stem collector 	 Disconnect Air Pressure, Tighten Cap (28)
	Oil leaking	 Replace part number RK8000M-63 With Berent
		Tool (call for service for especial tool)
	Air leaking	 Replace Number # 48 , 47 , 48 , 55 , 49 .
Fastener	 Insufficient air pressure 	 Adjust as in 'Operating Procedure' to 90 psi
fails to	 Fastener outside tool capability 	 Use more powerful tool
break		Contact Industrial Rivet for assistance
	Low oil level or air present in oil	See Priming Procedure
Insufficient	 Insufficient Air Pressure 	 Adjust as in 'Operating Procedure' to 90 psi
Vacuum	 Improper Vacuum Pressure Adjustment 	 See "Operation" for proper adjustment
Pressure	 The part # (17) plastic sealing sleeve are 	 Replace with new part
	broke.	
	 The air is pushed the mandrel out from the 	 Make sure the part # (13) set nut are in the
	nose.	correct distance.
	•	
		- A. (A.)
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Warranty Statement:

Industrial Rivet & Fastener Co. Inc. (hereinafter "IRF"), hereby warrants to the initial retail customer or original authorized distributor ("Warrantee") only that its products will be free from defects in material and workmanship for a period of 1 year from the purchase date provided that the products are used in accordance with "IRF's" instructions as to maintenance, operation and use.

The said warranty does not extend to goods subjected to misuse, neglect, accidental/improper installation, improper maintenance or which have been altered/repaired by anyone other than the seller or its certifiably authorized agents. The said warranty does not extend to consumable components or wear components as listed in schedule A.

The warrantee's only remedy and IRF's only obligation in the event of a defect or failure in the products, is that IRF, at its sole option, repair, replace or re work the products, but in no case shall the cost of the foregoing exceed the invoice price of the products.

This warranty shall be void if any person seeking to make a claim for defective products fails to notify IRF within 30 days, or, if distributor fails to provide evidence that the product failed within 30 days of the failure. Proof and date of purchase, maintenance records as well as details regarding failure must be sent via e-mail, and a sample of the failed products sent via postal service is required for warranty evaluation.

This warranty is in lieu of all other warranties, expressed or implied, including merchantability, or fitness provided for herein. Under no circumstance shall IRF be liable for incidental or consequential damages arising from the defect or failure in its products.

Seller's sole obligation under the foregoing warranty will be limited to, at Seller's option, repair or replacement of the tool (and shipping to the buyer with transportation charges paid to any place within the contiguous 48 states). Returned goods will be evaluated by our warranty repair department and a conclusion will be determined and classified as:

- a) Warranty Repair (free of charge)
- b) Non-Warranty repair or Abuse/Neglect (Hourly rate, Schedule B)
- c) Maintenance (Flat Fee, Schedule B)

Schedule A - Limited Warranty

The following are considered consumable or wear parts and are not covered under the warranty.

Consumables: Jaws, Nosepieces, Jaw Pusher, Jaw Spring

Wear Parts: Mandrel Catcher, O-Rings, Pneumatic Seals, Hydraulic Seals*

*Hydraulic seals have a limited warranty (6 months) and the replacement is at the sole discretion of the manufacturer.

Schedule B - Maintenance/Repair

Price Schedule as of 1/1/2011

Bench Fee: \$ 60.00 (up to one hour) Hourly Rate: \$ 60.00 per hour

Flat Fee:

Level 1 - Adjustments, cleaning and light repair \$45.00 + parts

Level 2 - Maintenance, Oil Change, plus Level 1 service \$65.00 + parts

Level 3 - Complete disassembly, change all seals, plus level 2 service \$120.00 + parts

If inspection by the seller of returned goods shows no breach of the forgoing warranty, Seller's regular conditioning charges (Schedule B) apply. Upon this conclusion we will either repair the tool at no cost to you and return it postage paid, or call you to inform you of the repair cost. The repair will need to be approved in writing before any work is performed.

A comprehensive tool service and repair program, for details contact your local area sales representative or call:

Industrial Rivet & Fastener Co. 200 Paris Ave Northvale, NJ 07647 1-800-BUY-RIVET