

Instruction Manual Model# RK-8000S



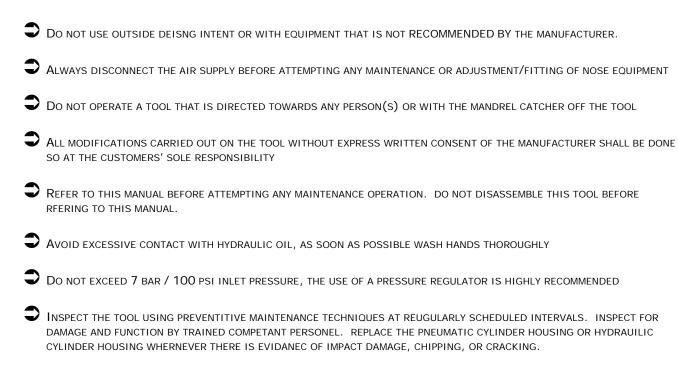
FOR SALES, SERVICE OR TECH SUPPORT CALL:

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

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SAFETY



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.

WEAR SAFETY GLASSES AND ADOPT FIRM FOOTING DURING OPERATION.

Specifications for RK-8000LS Rivet Tool			
Air Pressure	75-100psi	Min/Max	
Stroke	0.787 Inches	Minimum	
Pull Force	1,850 lbsF	@90psi	
Cycle Time	0.9 seconds	Approximately	
Noise Level	75 dB(A)	Less than	
Weight	2.42 lbs		
Vibration	2.5m/s2	Less than	
Hydraulic Oil	Mobil DTFE 24		
Nose Pieces	3/32 , 1/8, 5/32	All material rivets	

AIR SUPPLY

- The rivet tool is powered by compressed air at an optimum pressure of 5.5 bar (80 psi)
- 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

- 1. Inspect for damage
- 2. Connect the tool to the air supply
- 3. 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 catcher valve located at rear of the tool inside the mandrel catcher by hand.



Fig 1



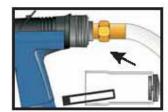
Fig 2

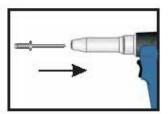
VACCUM ON (COUNTERCLOCKWISE)

VACUUM OFF (CLOCKWISE)

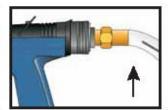
- **S** Bring the tool and the rivet into the application hole. Insure the rivet head flat onto surface
- Fully actuate the trigger. The tool will cycle and set the rivet while ejecting the nail into the rear mandrel catcher.
- **1.** Empty catcher when at 50% capacity

When the tool is in use for extended periods of time in a production environment, the vacuum hose is suggested to prevent chips and burrs from gathering on or in the tool or the application surface.





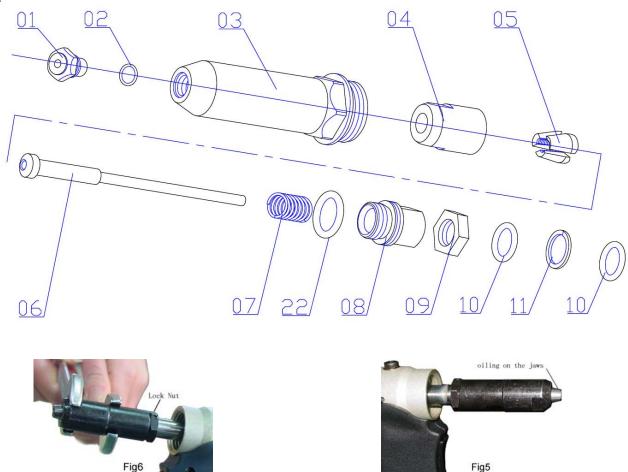




JAW CLEANING PROCEDURE / JAMMED GUN REMEDY

- 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 **04** and the other on **08** keeping the nut **09** <u>stationary</u> while unscrewing the jaw casing **04**. It is important that you only unscrew the nut closest to the jaws (jaw casing) **04**. <u>**DO NUT ADJUST LOCKNUT 09**.</u>
- **4.** Take care during removal as this jaw casing is spring loaded and contains 3 small jaws **05**, a jaw pusher **06**, and a spring **07**. Do not lose these pieces.
- **5.** Once removed if a mandrel has jammed the tool, dislodge the mandrel from the jaws, discard mandrel.
- **6.** Clean Jaws **05** with a mineral spirit then and coat outside of jaws (outside only) with a light layer of white lithium grease, red grease or one drop of hydraulic oil. Be sure to coat the outside of the jaws only.
- 7. Replace jaws into jaw case 04.
- 8. Followed by jaw pusher 06, and spring 07, if necessary.
- **9.** Re-apply jaw case **04** securely onto **08** using a wrench.
- **10**. Reapply the nose case **03** securely to the tool
- 11. Reattach air supply. Actuate tool without rivet. Check Function.
- 12. Once comfortable, Apply Rivets.

13.



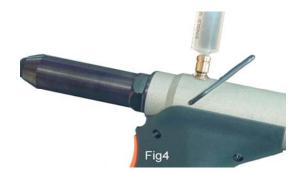
MAINTENANCE

Oil Priming Procedure

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.

- Disconnect air supply to tool and switch ON/OFF valve(48) to OFF position.
- Remove bleed screw(70) and seal(69).(see Fig 3)
- 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 4)
- Remove the priming pump and the excessive oil will flow out. Then clean out the excessive oil and replace the bleed screw and seal.





IMPORTANT: DISCONNECT THE TOOL FROM THE AIR SUPPLY OR SWITCH OFF AT VALVE (55). 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.

Valve Spool Assembly

Send into authorized repair center for service.

Trigger

- Inspect trigger pin valve by insuring **33** 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 **33** 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 placings or annually, whichever is the sooner. Item numbers in parentheses refer to assembly drawing part numbers

<u>Daily</u>

- Check for air leaks. Any damaged hoses should be replaced
- Lubricate the tool by pouring a 1 drop of light 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 inspect for cracks or other damage to front and rear of the nose piece. Replace if necessary.
- Insure that rotary valve for the vacuum on the mandrel collection unit is correctly adjusted for fastener retention

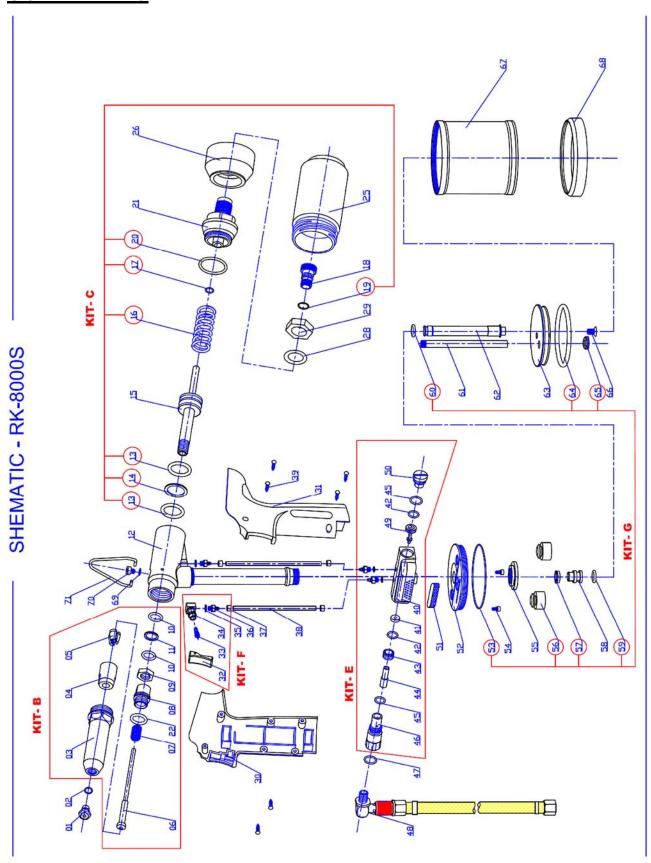
Weekly

- 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 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 daily maintenance instructions above
- Check and replace cylinder bodies if there are signs of damage or cracks.

SCHEMATIC



SERVICE KITS & SPARES

	KIT A - #RK800 MANDREL CATO		
No.	Part #	Description	Qty
23	RK8000S-23	PARTITION	1
24	RK8000S-24	SILENCER	1
25	RK8000S-25	NAIL CONTAINER	1
26	RK8000S-26	COVER	1
27	RK8000S-27	O-RING	1
28	RK8000S-28	WASHER	1
29	RK8000S-29	BOLT	1
	KIT B - #RK800		
No	NOSE HE		Otro
No.	Part # RK8000S-2	Description O-RING	Qty
3	RK8000S-3	NOSE CAP	1
4	RK8000S-4	JAW HOUSING	1
5	RK8000S-5		1
	RK8000S-6	JAW SET(3PCS)	
7	RK8000S-7	PUSHER	1
_	RK8000S-8	SPRING	
9	RK8000S-9	UPPER HOUSING	1
170	RK8000S-10	SET NUT	2
10	RK8000S-10	O-RING	
11	KIT C - #RK800	TEFLON RING	1
	UPPER HYDRAUL		
No.	Part #	Description	Qty
13	RK8000S-13	O-RING	2
14	RK8000S-14	TEFLON RING	1
17	RK8000S-17	O-RING	1
19	RK8000S-19	O-RING	2
20	RK8000S-20	O-RING	1
22	RK8000S-22	O-RING	2
	KIT D - #RK800	4.1111.7	
	NOSE PIE	CE KIT	
No.	Part #	Description	Qty
1-3/32	RK8000S-NS01-3/32	3/32 NOSEPIECE	1
01-1/8	RK8000S-NS01-1/8	1/8 NOSEPIECE	1
1-5/32	RK8000S-NS01-5/32	5/32 NOSEPIECE	1
	KIT E - #RK800		
	AIR VALV	ALMAN MARKATAN AND AND AND AND AND AND AND AND AND A	
No.	Part #	Description	Qty
40	RK8000S-40	AIR VALVE BODY	1
41	RK8000S-41	AIR VALVE RING	1
42	RK8000S-42	O-RING	2
43	RK8000S-43	AIR VALVE BASE	1
44	RK8000S-44	SUBORDINATE TUBE	1
45	RK8000S-45	O-RING	2
46	RK8000S-46	CONNECTING BASE	1
49	RK8000S-49	AIR VALVE ROD	1
50	RK8000S-50	SCREW PLUG	1
	KIT F - #RK800		
	TRIGGER	- WANTED WORKS AND	0.
No.	Part #	Description	Qty
32	RK8000S-32 RK8000S-33	TRIGGER	1
33	RK8000S-33	TRIGGER VALVE	1
34		ON/OFF BASE	-1
	KIT G - #RK800 LOWER HYDRAUL		
No.	Part #		Otto
	RK8000S-53	Description	Qty
53	RK8000S-56	O-RING	1
56	RK8000S-56 RK8000S-57	BUFFER	2
57	RK8000S-57 RK8000S-59	LIP SEAL	1
59	RK8000S-59 RK8000S-60	O-RING PISTON RING(DOMESTIC	1
00		PISTON PINCIDOMESTIC	1
60	RK8000S-64	O-RING	1



	PARTS LIST			
No.	Part #	Description	Qty	
01-3/32	RK8000S-NS01-3/32	3/32 NOSEPIECE	1	
01-1/8	RK8000S-NS01-1/8	1/8 NOSEPIECE	1	
01-5/32	RK8000S-NS01-5/32	5/32 NOSEPIECE	1	
2	RK8000S-2	O-RING	1	
3	RK8000S-3 RK8000S-4	NOSE CAP	1 1	
5	RK8000S-5	JAW HOUSING JAW SET(3PCS)	1	
6	RK8000S-6	PUSHER	1	
7	RK8000S-7	SPRING	1	
8	RK8000S-8	UPPER HOUSING	1	
9	RK8000S-9	SET NUT	1	
10	RK8000S-10	O-RING	2	
11	RK8000S-11 RK8000S-12	TEFLON RING	1	
12	RK8000S-12	OIL CYLINDER O-RING	1 2	
14	RK8000S-14	TEFLON RING	1	
15	RK8000S-15	PRINCIPAL AXIS UNIT	1	
16	RK8000S-16	RESTORE SPRING	1	
17	RK8000S-17	O-RING	1	
18	RK8000S-18	SWITCH	1	
19	RK8000S-19	O-RING	2	
20	RK8000S-20	O-RING	1	
21	RK8000S-21	AIRPROOF LID	1	
22	RK8000S-22 RK8000S-23	O-RING	2	
23	RK8000S-24	PARTITION SILENCER	1 1	
25	RK8000S-25	NAIL CONTAINER	1	
26	RK8000S-26	COVER	1	
27	RK8000S-27	O-RING	1	
28	RK8000S-28	WASHER	1	
29	RK8000S-29	BOLT	1	
30	RK8000S-30	HANDLE(LEFT)	1	
31	RK8000S-31	HANDLE(RIGHT)	1	
32	RK8000S-32	TRIGGER	1	
33	RK8000S-33 RK8000S-34	TRIGGER VALVE	1	
34 35	RK8000S-35	ON/OFF BASE O-RING	1 4	
36	RK8000S-36	AIR INTERFACE	4	
37	RK8000S-37	RESTRAIN RING	2	
38	RK8000S-38	AIR TUBE	2	
39	RK8000S-39	TAPPING SCREW	6	
40	RK8000S-40	AIR VALVE BODY	1	
41	RK8000S-41	AIR VALVE RING	1	
42	RK8000S-42	O-RING	2	
43	RK8000S-43 RK8000S-44	AIR VALVE BASE	1	
44	RK8000S-45	SUBORDINATE TUBE O-RING	1 2	
46	RK8000S-46	CONNECTING BASE	1	
47	RK8000S-47	O-RING	1	
48	RK8000S-48	SWITCH ASSEMBLY	1	
49	RK8000S-49	AIR VALVE ROD	1	
50	RK8000S-50	SCREW PLUG	1	
51	RK8000S-51	SILENCER FILTER	1	
52	RK8000S-52 RK8000S-53	CYLINDER COVER	1	
53 54	RK8000S-53 RK8000S-54	O-RING	1 2	
55	RK8000S-55	BOLT LOCK NUT	1	
56	RK8000S-56	BUFFER	2	
57	RK8000S-57	LIP SEAL	1	
58	RK8000S-58	AIR TUBE PISTON	1	
59	RK8000S-59	O-RING	1	
60	RK8000S-60	PISTON RING(DOMESTIC)	1	
61	RK8000S-61	TRANSFER TUBE	1	
62	RK8000S-62	PISTON ROD	1	
63	RK8000S-63 RK8000S-64	CYLINDER PISTON	1 1	
64 65	RK8000S-65	O-RING LIP SEAL	1	
66	RK8000S-66	BOLT	1	
67	RK8000S-67	CYLINDER	1	
68	RK8000S-68	BASE COVER	1	
69	RK8000S-69	BS	1	
70	RK8000S-70	SEAL SCREW	1	
71	RK8000S-71	ноок	1	

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.

EYES:

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.

More than one operation of the trigger needed to place - Air leak - Tighten joints or replace correspond to place - Adjust air pressure to within specification - Air leak - Tighten joints or replace correspond to the trigger - Adjust air pressure to within specification	mponents
operation of the trigger Insufficient air pressure Adjust air pressure to within	
	า
opeocation	
fastener Lack of lubrication Lubricate tool at air inlet poi	int
■ Worn or broken jaws ■ Fit new jaws	
Low oil level or air in oil Prime tool	
 Build up of dirt inside the nose assembly Service nose assembly 	
Tool will not grip stem • Worn or broken jaws • Fit new jaws	
of fastener • Build up of dirt inside the nose assembly • Service nose assembly	
■ Loose jaw housing ■ Tighten against locking ring	
 Weak or broken spring in nose assembly Fit new spring 	
■ Incorrect component in nose assembly ■ Identify and replace	
■ Rotary valve incorrectly adjusted ■ Read 'Operation'	
Jaws will not release Build up of dirt inside the nose assembly Service nose assembly	
broken stem of fastener Jaw housing, nose tip or nose casing not Tighten nose assembly and	adjust if
properly seated necessary	
 Weak or broken spring in nose assembly 	
Air or oil leakFit new spring	
■ Tighten joints or replace cor	mponents
■ Low oil level or air present in oil ■ Prime tool	
Jammed Gun / Cannot • Broken stems jammed inside tool • Empty mandrel collector	
feed next fastener • Check if jaw pusher is correct • Check if jaw pusher is check if j	
Adjust air pressure to within	า
specification	
■ Rotary valve incorrectly adjusted ■ Adjust as in 'Operating Proce	eaure
Slow cycle • Lack of lubrication • Lubricate tool at air inlet poi	
 Low air pressure Adjust air pressure to within specification 	1
Build up of all t inside the hose assembly Service hose assembly	
Tool fails to operate No air pressure Connect and adjust to within specification	П
■ Damaged trigger valve ■ Replace	
 Loose pneumatic piston cover Tighten Socket Screws 	
Loose stem collector Tighten	
Fastener fails to break Insufficient air pressure Adjust air pressure to within	
rasterier rails to break - insufficient air pressure - Adjust air pressure to within specification	I
■ Fastener outside tool capability ■ Use more powerful tool	
■ Contact Industrial Rivet	
■ Low oil level or air present in oil ■ Prime/Re-Fill oil	
Insufficient Vacuum Insufficient Air Pressure Set to 90psi	
Pressure Improper Vacuum Pressure Adjustment See "Operation" for proper	
adjustment	
dajasimoni	

Warranty Statement:

Industrial Rivet & Fastener Co. Inc. (hereinafter "IRF"), hereby warrants to the initial retail customer and original 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, accident or improper installation or maintenance or which have been altered or repaired by anyone other than the seller or its authorized agents.

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 rework 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 or failed products fails to notify IRF within 30 days of receipt of evidence that the product is defective or has failed, or if said person fails to provide IRF with such evidence as is reasonably requested concerning the effect or failure, including without limitation, evidence of the date of purchase and date of installation.

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) Abuse /Neglect (bench fee and/or hourly rate)
- c) Maintenance (Flat Fee)

Price Schedule as of 1/1/2008

Bench Fee: \$55.00

Hourly Rate: \$55.00 per hour

Flat Fee:

Level 1 - Adjustments and light repair \$35.00 + parts Level 2 - Maintenance, Oil Change \$95.00 + parts

Level 3 – Overhaul, complete disassembly, change all seals \$155.00 + parts

If inspection by the seller of returned goods shows no breach of the forgoing warranty, Seller's regular conditioning charges (as stated above) 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