



Great Lakes Fastening
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OPERATING INSTRUCTIONS & PARTS LIST

For best operating results and long life, maintain the tool in good working order, do not drop the tool, keep the mechanism free from dirt and other foreign matter and do not operate the tool at air pressures above 100 PSI (7.03 kg/cm²). Although your clip ring tool is of high quality and made to exacting standards, failure to follow proper operational precautions may result in damage to your tool and shorten its useful life.

OPERATION

The air powered clip ring tool should be held firmly in the hand and in most operations the tool is used 90 degrees to the work performed. It should be kept in mind that in using the air powered clip ring tool, this is like any other tool and should be properly maintained. One area of maintenance to be conscious of is when pushing the tool into foam, it should be cleaned occasionally. Also, when "grabbing" a group of wire, the tool is frequently used as a pusher puller and/or a variety of other things. The most important point to remember is to take a long, hard look at your work and choose the best way in which to do it. Obviously, the less the tool is abused, the better. The tool should be handled firmly in your hand and don't stretch too far when you use it in the direction of your application. Please also note that the tool should make a complete closure of the fastener. If for any reason you are not getting complete closure, check to make sure that the application is correct and that the tool is cycling completely. Obviously, moisture, dirt or any other foreign matter that is inside the tool will reduce its Operational efficiency. Please take care in handling, operation and maintenance of your tool for a long and useful work life.

AIR PRESSURE

Air pressure should be maintained at 85-96 PSI (5.98-6.68 kg/cm²) using 1/4" (6.35mm) ID air hose. Higher pressures will not increase the operating speed of the tool and may cause damage to it.

AIR FILTER AND REGULATOR

The air line should have an attached air line filter and regulator sufficient to provide a constant and even flow of clean, dry air. The filter should be installed as close as possible to the tool. Dirt or moisture in the air line will adversely affect the smooth operation of the tool and decrease its serviceable life.

LUBRICATION

To insure long, trouble-free service, we recommend Air Line Lubricators and Filter Units for proper lubrication and clean, dry air. A good grade of oil that emulsifies in water is recommended for air tools.

MANUAL OILING

Although the jaws and other moving parts of the tool do need to be oiled, periodic oiling in small amounts may increase the serviceable life of the tool that receives heavy use.

C-RINGS

These rings are available from GLFast and will be shipped promptly from stock. PLEASE SEE C-RING STYLES CHART for further details regarding materials, points and size of C-RING.

REPAIR AND SERVICE PARTS

If any tool is not operating properly, remove it from service at once and have it checked for proper operation. GLFast will ship replacement parts for repairs. Parts price lists are available upon request. Use only parts that are specifically fabricated for the AC model tool which you own.

TO DISASSEMBLE

Jaws, Magazine, Feeder Guide Rail

Remove Flexlock Nuts(21) and Jaw Bolts (#74). Take out Jaws(#40 and #50). Remove Magazine Assembly(#73) and Feeder Guide Rail (#204).

Feeder Blade, Rollers and Piston Rod

Remove Cap Screws (#18 & #39 x 4 pcs) and Frame Assy. (203) from Cylinder Housing. After taking off Piston(#30) and Piston Stop Spacer (#32). Piston Rod Assembly with Feeder Blade (#47) and Rollers (#46 x 4 pcs) can be taken out the front end of the Frame.

THROTTLE

Loosen Set Screws (#28) and remove Adjustable Valve Seats (#5 & #16). Using two Allen wrenches, unscrew Throttle Valve Screw (#9) to remove Valve units. One Valve will stay on Spacer (#14) and can be disassembled after removal from Housing.

TO ASSEMBLE

Assemble one Valve on Spacer (#14). Holding Allen wrench, bring second Valve mounted on Screw (#9) in from other side and complete Valve Assembly (should then have free motion of about 1/16").

THROTTLE VALVE ADJUSTMENT

With Throttle Spring Locator (#7 & #8) in place, partially screw in Adjustable Valve Seat (#5). With air partly turned on and holding front Valve closed with a 3/8" dia. turn Valve Seat in until air stops leaking through Valve. Using Throttle Stem (#17) to turn, install Front Valve Seat (#16), turning until air stops exhausting through Handle. After finer adjustment, lock Valve Seats in place with Set Screws (#28) in Housing casing.

TO LOCATE AND CORRECT AIR LEAKS

If an Adjustable Valve Seat is turned too far, the opposite Valve will be raised from its Bushing Seat, causing air leakage. To correct back off Adjustable Valve Seat until leak stops. If leaks do not stop, check Piston (#30) and Piston O-Ring (#29).

FEEDER BLADE, ROLLERS, PISTON ROD

Onto Piston Rod (#48) mount Feeder blade (#47), Roller Pins(#49 x 2pcs) and Rollers (#46 x 4 pcs). Put in Frame. Mount Piston Stop Spacer (#32), Piston (#30) and Flexloc Stop Nut (#21). Insert Throttle Stem (#17) and then assemble Frame to Housing.

FEEDER GUIDE RAIL

With Feeder Arm (#51) in place, assemble Feeder Guide Rail(#204). Pusher spring (#70), slide into Bracket and insert lower Cap Screw (#64) tight. Continue turning to desired Pusher Spring tension and lock with Nut (#67).

MAGAZINE

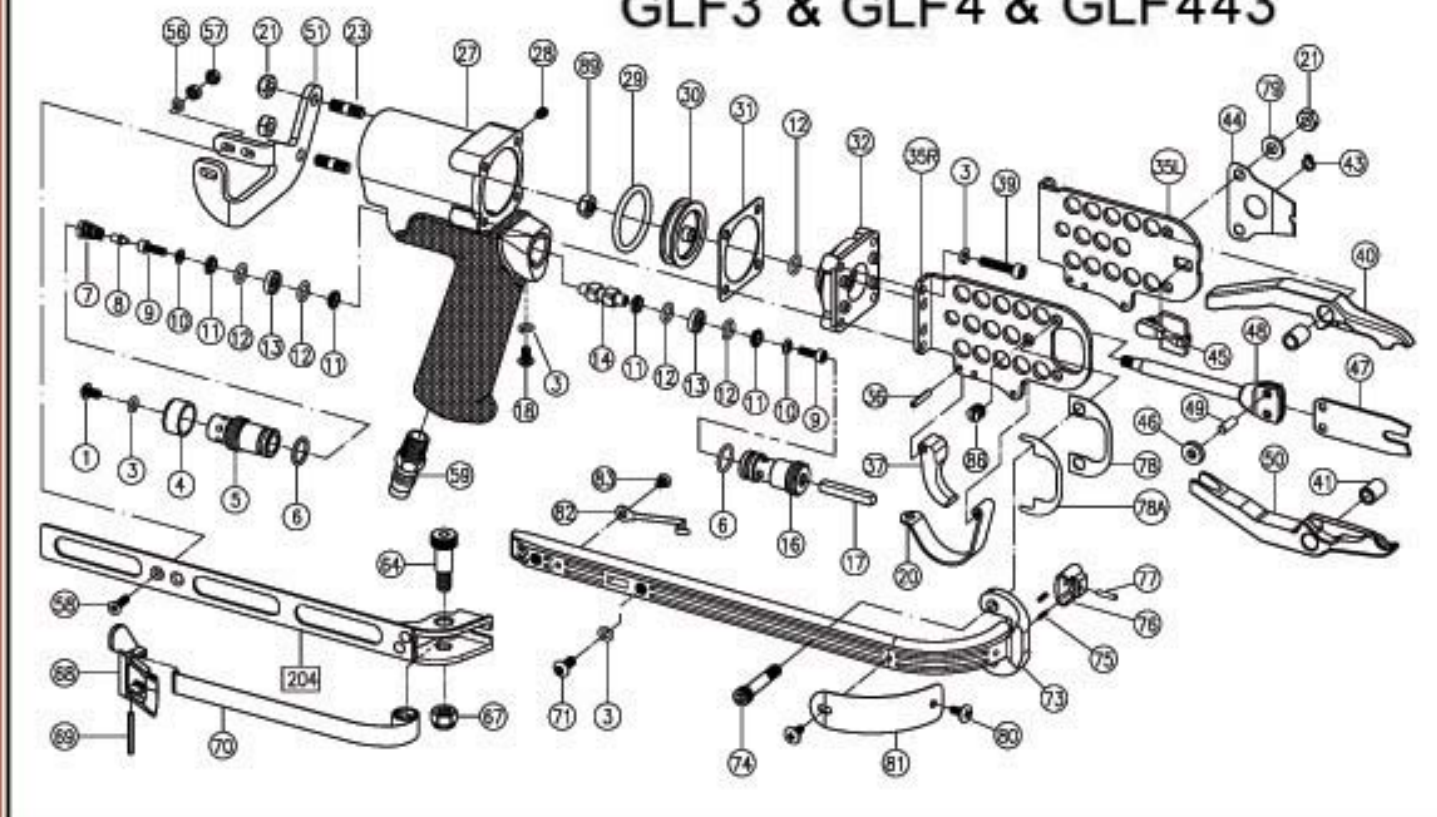
Assembly Latch(#45) and Latch Pin Clip (#43). Insert Jaw Bushings (#41 x 2 pcs) into Jaws (#40 & #50), side jaws into place and complete assembly.

ADJUSTMENT OF MAGAZINE

Before tightening Cap Screws (#74), insert enough Shims (#78) between Magazine (#73) and Side Plate (#35R) to produce a clearance between Magazine Shoe (#76) and Feeder Blade (47). Magazine must be held tight against Side Plate while checking this clearance; then, after tightening the Cap Screws (#74 x 2 pcs), clearance should be rechecked.

**DO NOT POINT THE TOOL AT ANY PERSON.
KEEP HANDS AND CLOTHING AWAY FROM
THE FRONT OF JAWS OF THE TOOL AND
AWAY FROM ALL MOVING PARTS. INJURY
MAY RESULT. FAILURE TO FOLLOW THESE
PRECAUTIONS MAY RESULT IN SERIOUS
INJURY.**

GLF3 & GLF4 & GLF443



ITEM	DESCRIPTION	TOOL NO.	PART NUMBER	QTY
1	Set Screw		ACB1081	1
2	Stainless Lock Washer		ACB1082	7
3	Air Detent		ACB1084	1
4	Air Valve Seal		ACB1085	1
5	O-Ring		ACB1086	2
6	Throttle Spring		ACB1087	1
7	Throttle Spring Locator		ACB1088	1
8	Throttle Valve Screw		ACB1089	2
9	Valve Spring Washer		ACB1090	2
10	O-Ring Support		ACB1091	2
11	O-Ring		ACB1092	2
12	O-Ring Center Support		ACB1093	2
13	Throttle Valve Spacer		ACB1094	1
14	Front Vision Seal		ACB1095	1
15	Throttle Stop		ACB1097	1
16	System Head Cap Screw		ACB1098	1
17	Trigger Guard		ACB1099	1
18	Pin		ACB1100	1
19	Pin		ACB1101	1
20	Pin		ACB1102	1
21	Pin		ACB1103	1
22	Pin		ACB1104	1
23	Pin		ACB1105	1
24	Pin		ACB1106	1
25	Pin		ACB1107	1
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