## **Original Instructions**







VELERIE

## THE G83A TOOL

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### WARRANTY

Seller warrants the goods conform to applicable specifications and drawings and will be manufactured and inspected according to generally accepted practices of companies manufacturing industrial or aerospace fasteners. In the event of any breach of the foregoing warranty, Buyer's sole remedy shall be to return defective goods (after receiving authorization from Seller) for replacement or refund of the purchase price, at the Seller's option. Seller agrees to any freight costs in connection with the return of any defective goods, but any costs relating to removal of the defective or nonconforming goods or installation of replacement goods shall be Buyer's responsibility. SELLER'S WARRANTY DOES NOT APPLY WHEN ANY PHYSICAL OR CHEMICAL CHANGE IN THE FORM OF THE PRODUCT IS MADE BY BUYER.

THE FOREGOING EXPRESS WARRANTY AND REMEDY ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES; ANY IMPLIED WARRANTY AS TO QUALITY, FITNESS FOR PURPOSE, OR MERCHANTABILITY IS HEREBY SPECIFICALLY DISCLAIMED AND EXCLUDED BY SELLER. THIS WARRANTY IS VOID IF SELLER IS NOT NOTIFIED IN WRITING OF ANY REJECTION OF THE GOODS WITHIN ONE (1) YEAR AFTER INITIAL USE BY BUYER OF ANY POWER RIVETER OR NINETY (90) DAYS AFTER INITIAL USE OF ANY OTHER PRODUCT.

Seller shall not be liable under any circumstances for incidental, special or consequential damages arising in whole or in part from any breach by Seller, AND SUCH INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES ARE HEREBY EXPRESSLY EXCLUDED.

#### For more information please contact our Technical Services Department at Tel. 714-850-6154

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## DESCRIPTION

The Cherry® G83A Lockbolt® riveter is a compact but powerful production tool designed for high productivity, reliable installation of the most popular sizes of aircraft lockbolts and blind bolts.

This powerful tool has many ergonomic features: light weight, low recoil and noise, comfortable fit in the operator's hand.

## **SPECIFICATIONS FOR G83A**

Cherry® Aerospace (CHERRY®) policy is one of continuous development. Specifications shown in this document may be subject to change which may be introduced after publication. For the latest information check our website at

http://cherryaerospace.com, under "Technical / Tooling Manuals"

AIR PRESSURE	90 to 110 PSI (6.2 to 7.6 bar).
STROKE	7/16 inch (11.1 mm)
PULLING FORCE	3,750 lbs. min @ 90 PSI (16.7 kN min. @ 6.2 bar),
RETURN FORCE	800 lbs. min @ 90 PSI
	(3.56 KN min. @ 6.2 bar).
CYCLE TIME	Approximately one second
WEIGHT	4.95 lbs. (2.25 kg)
NOISE LEVEL	78.4 dB (A)
VIBRATION	less than 2.5 m/s2
AIR CONSUMPTION	3.9 CFM (110.5 liters/M) at 20 Cycles/Minute



## PUTTING THE TOOL IN SERVICE

The tool must be used with an air pressure regulator. Even if your shop air pressure is below the maximum recommended range, pressure spikes in your airlines could cause serious damage to the tool or cause safety concerns.



## **GENERAL SAFETY WARNINGS**

## **General Safety Rules**

- Read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on or working near this equipment. Failure to do so can result in serious bodily injury.
- Only qualified and trained operators should install, adjust or use this tool and its accessories.
- Do not modify this tool; modifications can reduce the effectiveness and compromise safety, increasing the risk to the operator.
- Only use genuine Cherry components; use of unauthorized substitutions compromises the tool safety and void warranty.
- The consequences shall be at the customer's entire responsibility.
- Do not discard the safety instructions; distribute them to the operators using this equipment.
- Inspect the tool periodically to verify that is in good working condition and all the information is legibly marked. Contact Cherry Aerospace to obtain replacement new markings if necessary.
- Do not use this equipment if it has been damaged.

#### **Projectile hazards**

- Unless otherwise specified, disconnect the equipment from the power source when servicing or changing accessories.
- Be aware that failure of the work-piece or of this equipment can generate high velocity projectiles. Always wear impact resistant eye protection when operating the tool. The grade of protection required should be assessed for each use.
- o The risks to others should also be considered; never pull rivet in the air or directed at any person.
- Ensure that the work-piece into which the fasteners are installed is securely fixed and properly aligned and prepared.
- Check that the means of protection from ejection of spent stems is in place and it is in good operating condition.
- Warn against the possible forcible front ejection when pulling fasteners in the air or when using front ejecting attachments.

#### **Operating Hazards**

- Use of tools can expose the operator's hands to hazards including crushing, impacts, cuts abrasion and chemical exposure from the internal hydraulic fluid. Use caution when operating this equipment and wear suitable gloves.
- Make sure that the operators and maintenance personnel are physically able to handle the bulk, weight and operating forces of this
  equipment. Instruct the operator on how the tool is correctly held and operated; be read to counteract the normal or sudden movements of
  this equipment and have both hands available.
- Maintain a balanced body position and secure footing.
- Release the trigger button in case of interruption of the energy supply.
- Use only the transmission fluid and lubricants recommended by Cherry.
- Avoid uncomfortable postures as these positions will not to allow properly counteracting the operating forces of this tool.
- If this tool is operated in a fixed position, make sure that the fixation device is properly secured.
- · Beware of the risk of pinching or crushing if pulling head or adaptors are not mounted on this equipment.

#### **Repetitive Motions Hazards**

- When using this tool, the operator may experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
- While using this equipment the operator should adopt a comfortable posture whilst maintaining a secure footing and avoiding awkward or
  off-balance postures. Change posture frequently during extended tasks to help avoid discomfort and fatigue.
- If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling or numbness, these
  symptoms should not be ignored. Make sure the proper safety measures are taken and the operator comfort is properly assessed during
  the operation of this equipment.

#### **Accessory Hazards**

- Unless otherwise specified, disconnect from the air source before changing accessories or otherwise servicing this equipment.
- Use only the sizes and types of tools and accessories recommended by Cherry to work with this equipment.

#### Workplace Hazards

- Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces around the area this equipment is in operation, fallen spent stems, and trip hazards created by the connecting air supply hose.
- Proceed with caution when in unfamiliar surroundings; there can be hidden hazards such as electricity and other utility lines.
- This equipment has not been tested for use in potentially flammable or explosive environments; use caution when contact with electric
  power is possible as this tool has a metallic construction that has not fully insulated and tested against electric contact.

• Ensure that there are not electric cables, gas pipes, etc. which can cause a hazard if damaged by the use of this equipment.

#### Noise Hazards

- This tool meets the regulatory requirements for noise hazards; however, long exposure to noise can cause permanent, disabling hearing loss or tinnitus (ringing, buzzing in the ears). Use proper ear protection to minimize exposure to noise.
- Appropriate controls should be taken when fixturing the work-piece to reduce noise amplification by "ringing" or impact shock; such controls may involve vibration dampening materials and methods.
- Make sure that the equipment is in proper working condition to avoid unnecessary increase in noise.

#### Vibration Hazards

- This tool meets the regulatory requirements for vibration; however, long exposure to the tool operating forces and especially if used in an uncomfortable posture can cause permanent, disabling damage to nerves and blood supply to hands and arms.
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- If you experience numbness, tingling, pain or whitening of the skin on your fingers or hands tell your employer and consult a physician.

### Additional safety instructions:

- Pressurized air can cause severe injury:
  - Always shut-off or disconnect from the air supply when tool not in used or when servicing the equipment.
     Never direct air exhaust or direct air jet to yourself or anyone else.
- Whipping hoses can cause severe injury; always check for damaged or loose hoses, valves and fittings.
- Cold pressurized air shall be directed away from anyone's hands or body.
- Do not exceed the maximum operating air pressure stated in this manual; if a regulated airline is not available, use the pre-set air pressure regulator P/N P1505 to protect against pressure spikes.
- Never hold or carry this equipment by the hose.
- Avoid dropping this tool on hard surfaces; do not pound on the rear of the tool head to force rivets into holes.

## HOW TO USE THE G83A



## PREPARING THE TOOL FOR OPERATION

- After selecting the proper pulling head, attach it securely to the riveter and connect the air-line to the tool.
- Cycle the tool about 10-15 times before starting to make sure all the internal components are all lubricated.

**INSTALLING LOCKBOLTS:** Place the lockbolt pin into the work-piece and place the collar over the pintail.

- While holding the back end of the lockbolt in place, push the pulling head onto the serrated area of the stem.
  - Caution: When using a non-self-releasing pulling head once the tool is placed onto the serrated end, it cannot be removed unless going
    through the installation cycle which breaks the serrated end of the bolt.
    The broken part (pintail) will eject through the rear of the riveter when using a straight pulling head and through the rear of the active area

I ne broken part (pintail) will eject through the rear of the riveter when using a straight pulling head and through the rear of the active area of the tool for when using offset pulling heads.

If the tool does not release the swaged collar after installation, it can be adjusted by adding shims behind the pulling head collet. Otherwise, the tool may need to be serviced.

## INSTALLING BLIND BOLTS AND RIVETS

- Insert the blind fastener into the prepared hole and place the tool onto the serrated stem.
- Pull the trigger to activate the tool. Upon release of the trigger, the stem will eject to the rear of the riveter when using straight pulling heads, and from the rear of the active area of the tool when using offset pulling head. Right angle pulling heads eject the stems through the front.

## PULLING HEADS AND ADAPTERS AVAILABLE

Pulling heads are not furnished with the riveter and must be ordered separately. All Huck nose assemblies suitable for the 352 and 230 style tools will fit directly on this tool.

	LOCKBOLT DIA.		Pof				
ACCESS TYPE		BASIC	SWIVEL TYPE	SELF-RELEASING SWIVEL TYPE	SELF-RELEASING, CHISEL SHAPE SWIVEL	Expected Tool Length (inches)	
		H513-04-20				2.0	
	-4	H513-04-35	-	-	-	3.5	
			1		l	6.0	
		-	H513S-05-20	H513SR-05-20	H513SRC-05-20	2.0	
	-5	H513-05-35	H513S-05-35	H513SR-05-35	H513SRC-05-35	3.5	
		H513-05-60	-	-	-	6.0	
	'	H513-06-20	H513S-06-20	H513SR-06-20	H513SRC-06-20	2.0	
STRAIGHT			H513S-06-24	H513SR-06-24		2.4	
	-6	-	H513S-06-35	H513SR-06-35	H513SRC-06-35	3.5	
		-	H513S-06-48	H513SR-06-48	-	4.8	
		H513-06-60	-	-	-	6.0	
		H513-08-24	H513S-08-24	H513SR-08-24	-	2.4	
	-8	H513-08-35	H513S-08-35		-	3.5	
		H513-08-48	H513S-08-48	H513SR-08-48	H513SRC-08-48	3.5	
	E	H563-5B					
	-5	H563SP-5B					
OFESET		H562-6B					
CHUC	-6	H563-6B					
		H563SP-6B					
	-8	H562-8B					
Greyed out	Greyed out part numbers will need adaptor 744-100 to work with this riveter; they are designed to work						

with G87D and G85D-S; S = Swivel Type; SR = Self Releasing (only grabs the fastener when trigger is activated; SRC = Self-

Release, Chisel Type (for access in tighter structures; SP = for installing Short Pintail (stem) fasteners

STRAIGHT PULLING HEADS	MAXIBOLT DIA.	MAXIBOLT TYPE	PART NO.	ADAPTER	Ref. Pulling Head Length
		"S" type (with washer)	H83B-5MB	NONE	2
	-5	o type (with washer)	H744-5MB	NONE	2
STRAIGHT -6		"U" Type (No Washer)	H83B-5MBU	NONE	2
		"S" type (with washer)	H83B-6MB	NONE	2
	-6	5 type (with washer)	H744-6MB	NONE	2
		"U" Type (No Washer)	H83B-6MBU	NONE	2
	-5, -6	Maxibolt Plus	H84B-568	NONE	2.7
OFFSET	-6	Washer Type	H856-6MB	744-200	
RIGHT	-5 Washer Type		H828-5MB	744-200	]
ANGLE	-6	Washer Type	H828-6MB	744-200	

#### MAXIBOLT® PULLING HEADS & ADAPTORS

Greyed out part numbers need an adaptor to work with this tool.

PRODUCT TYPE	PULLING HEAD	FASTENER DIAMETER	PART NO.	ADAPTER
		-4, -5, -6	H701B-456	744-300
CHERRIMAND	STRAIGHT	-8	H84A-8	NONE
CHERRYLOCK®, A		-8	H84-8CLA	NONE
		-4, -5, -6	H781A-456	744-300
CHERRYMAX®	OFFSET	-4, -5, -6	H782	744-300
		-8	H827-8	744-200
		-4, -5, -6	H753-456	744-300
CHERRYMAN	RIGHT ANGLE	-8	H828-8	744-200

#### CHERRYMAX<sup>®</sup>/CHERRYLOCK<sup>®</sup> PULLING HEADS & ADAPTERS

Greyed out part numbers need adaptors to work with this tool

## ADAPTER MOUNTING INSTRUCTIONS

If an adapter is necessary, follow the instructions given below:

STEP 1



#### STEP 1

Remove Bayonet mount with square shank screwdriver. Use even force to turn the bayonet mount free from the thread locking compound. Do not hammer on the screw driver or bayonet mount. We recommend placing the tool carefully in a vise equipped with soft jaws. STEP 2

STEP 2

STEP 3









#### STEP 4

Attach sleeve adapter to tool housing and tighten with wrenches

The pulling head may now be installed on the adapted tool.

Keep Bayonet mount for future use.

and tighten securely with wrenches.

Attach draw-bolt adapter to head piston

700A60

Seal Guide

## **TOOL SERVICE**

Tool must be serviced in case of malfunction, massive fluid loss or as part of your routine maintenance program. REPLACEMENT PARTS: **G83AKS** – service kit (it contains Springs, Seals, O-Rings, Back-up Rings) TOOLS NEEDED: **G701/G704KT** – tool kit (see pictures below), **Needle Nose Pliers** 



836B700 Valve Spring Installation Tool



837B700

Valve Sleeve Removal Tool

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P1178 Valve Plug Extractor



700B65 Packing Plug Wrench

## 700A61 Piston Rod Wrench



700A62

700A77 Air Bleeder



## SERVICE PROCEDURE

- Maintenance and repair to be conducted only by trained personnel.
- Prior to attempting any repair or maintenance work, make sure the air is disconnected.
- Use special care handling sealing surfaces to avoid damage.
- Replace all seals; before re-assembly, apply an O-ring lubricant (Parker® silicone lube or equivalent) on all O-rings
- Apply a small amount of Loctite® 242 on the threaded components; curing time about 30 to 60 minutes.
- After service, the riveter must be primed with hydraulic fluid

## AIR VALVE SUB-ASSEMBLY

#### Disassembly Instructions:

- Remove retaining ring (44) and muffler (43) then pull out the valve plug (42) and spool subassembly (37) with the help of tool P1178;
- If necessary, pull the valve sleeve (34) with I tool 837B700 after dislodging the spring (35) with a needle-nose pliers and pulling it out.

#### Assembly Instructions:

Reverse the above procedures. Make sure to use Install tool 836B700 to snap the spring (35) into its groove.

## **HEAD SUB-ASSEMBLY**

#### Disassembly:

- Remove end cap (10); push the head piston (6) out carefully.
- O-rings and back-up ring can be removed using a bent hook. Replace all seals.

#### **Re-assembly:**

 Reverse the above directions, being very careful not to damage the seals during re-assembly; before re-attaching, fill the handle with fluid to the top (see priming instructions).

## HANDLE SUB-ASSEMBLY

#### Disassembly:

- Remove the Head Cylinder (1) drain of fluid then remove the bottom covers (58 through 62); push the power piston down.
- Unthread the locknut (57) with a 1/2" socket wrench and then remove the air piston (55) by using wrench 700B65; hold the top of the piston with tool 700A61 to prevent from turning. Push piston out when completely unthreaded
- Push the power piston (49) all the way up and remove packing plug (47) with the help of wrench 700B65.
- Tap the power cylinder (53) from the top (use tool 700A62); when loosened, it will fall through the bottom.
- Remove all the seals using a bent hook tool and inspect all components for wear. Replace all sealants and worn components

#### Assembly:

• The re-assembly sequence is the opposite of disassembly; to prevent damage to piston threads, the tightening torque for the locknut (57) must be between 50 and 59 in.-lb. (5.65 and 6.67 N-m).



## PART LIST

## Model No: G83A

Item P/N		P/N	Description	Qty	
1	700-264		L .	Head Cylinder Sub-Assem	bly
	2	700-211		Bayonette Adaptor Assy	1
	3	P828		O-Ring	2
	4		P883	Back-up Ring	1
	5		700-266	Head Cylinder	1
	6		700-265	Head Piston	1
	7		P932	Back-up Ring	2
	8		P113	O-Ring	1
	9		P1373	O-Ring	1
	10	1	700-212	End Cap	1
	11		P107	O-Ring	1
	12		P108	Back-up Ring	1
	13		P880	Circular Spring	1
	14		703A13	Deflector Fitting	1
	15	530A16		Pintail Deflector	1
	16	700-214		Relief Valve Assy	1
		17	P111	O-Ring	1
		18	700-217	Piston	1
		19	P688	3/32 Steel Ball	1
		20	700-215	Ball Seat	1
		21	P383	O-Ring	1
		22	P1366	Compression Spring	1
		23	700-218	Spring Seat	1
	24		P572	Stat-O-Seal	2
	25		P573	Button Head Screw	2
	26	-	700-204	Return Cylinder	1
27		P1367		Compression Spring	1
28		P508		O-Ring	1
29		700-267		Return Piston Assy	1
	30			O-Ring	1
31		F	9832	High Pressure O-Ring	1
32		70	0-230	Gasket	1
33	P27		P27	Cap Screw	4

Item P/N			Description	<b>Qty</b>	
<mark>34</mark>		700-268		Handle Sub-Assembly	1
	35	703A33		Trigger Sub-Assy	1
		36	530A38	Trigger	1
		37	703A32	Trigger Sleeve	1
		38	P223	O-ring	1
	39	-	703A11	Handle	1
	40		P1505	Air Pressure Regulator	1
	41		P653	O-Ring	4
	42		700B73	Valve Sleeve	1
	43		700A67	Spring	1
	44		P829	O-Ring	3
	45	700	A15	Valve Spool Sub-Assy	1
		46	700D15-2	Spool	1
		47	700A18	Mufler/Filter	1
		48	700A69	Metering Screw	1
	49		P834	O-Ring	2
	50	700A16		Valve Plug	1
	51	700A17		Muffler	1
	52	P279		Retaining Ring	1
	53	P838		High Pressure O-Ring	2
	54	P115		Back-up Ring	2
	55	700B93		Packing Plug	1
	56		P727	O-Ring	1
	57	-	700-248	Power Piston	1
	58		P830	High Pressure O-Ring	1
	59		P739	Back-up Ring	1
	60		P833	High Pressure O-Ring	2
	61	-	700-247	Power Cylinder	1
	62		P731	Back-up Ring	2
	63		700B6	Air Piston	1
	64		P730	Quad Ring	1
	65		P737	Lock Nut	1
	66	66         P725           67         700B4           68         P735		O-Ring	1
	67			Handle Base	1
	68			Retaining Ring	1
	69	7	00D107	Base Cover	1
	70		P736	Retaining Ring	1
71		43	5-092	CE CERTIFICATION LABEL	1
72	2 435A60		5A60	WARNING LABEL	1



Specific gravity:

Weight per gallon:

Open flash point:

0.863

7.18 lbs.

>200°C (392°F)

## PRIMING THE HYDRAULIC SYSTEM

## RECOMMENDED HYDRAULIC FLUID

The riveter is supplied with **Dexron® III ATF type "A"**.

## COMPATIBLE ALTERNATE FLUIDS

- Automatic Transmission Fluids: DEXRON IV, MERCON, Allison C4 or equivalent.
- Hydraulic Fluids: Hyspin® VG32, Aeroshell fluid 4

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- DO NOT MIX DIFFERENT TYPES OF HYDRAULIC OILS AND TRANSMISSION; HYDRAULIC AND TRANSMISSION FLUIDS ARE NOT COMPATIBLE DIFFERENT TYPES OF FLUIDS MAY NOT BE COMPATIBLE WITH EACH OTHER.
- PHYSICAL PROPERTIES AND MATERIAL SAFETY DATA SHEETS FOR DIFFERENT FLUIDS MAY DIFFER FROM THE ONE GIVEN BELOW, BUT THE SAFETY INFORMATION STILL APPLIES; CHECK WITH THE FLUID MANUFACTURER FOR ADDITIONAL MSDS AND SPECIFIC PROPERTIES.

## FLUID HANDLING SAFETY

	<b>آ</b> ن	Waste Disposal in accordance with the applicable regulations
ENVIRONMENTAL		<ul> <li>Soak up spills with diatomaceous earth or other inert materials.</li> <li>Keep from drains, sewers and water courses.</li> <li>Filter and recycle used fluid; otherwise store and dispose of according to the applicable regulations.</li> </ul>
HANDLING	Approved Personal Protective Equipment must be worn	<ul> <li>Eye protection is required.</li> <li>Protective gloves, chemically resistant boots and apron are recommended.</li> </ul>
		<ul><li>Flush eyes thoroughly with water.</li><li>If irritation develops, consult a physician.</li></ul>
FIRST AID		<ul> <li>To prevent inhalation, use in well-ventilated area.</li> <li>Short term exposure should pose no adverse health effects.</li> <li>If inhalation occurs, remove the affected person from the contaminated area and apply artificial respiration if needed.</li> </ul>
		<ul> <li>DO NOT INDUCE VOMITING.</li> <li>Seek medical attention immediately.</li> </ul>
		<ul> <li>In case of skin contamination:</li> <li>Wash thoroughly with soap and water as soon as possible.</li> <li>Brief skin contact requires no immediate attention.</li> <li>If irritation develops, consult a physician.</li> </ul>
X		<ul> <li>It is slightly combustible when heated above flash point.</li> <li>It will release flammable vapors which can burn in open or be explosive in confined spaces if exposed to source of ignition.</li> <li>Do not store near open flames or other sources of ignition.</li> </ul>
COMBUSTIBILITY		<ul> <li>In case of fire, use only suitable extinguishing media: CO2, dry powder, foam or water fog.</li> <li>CAUTION: DO NOT USE WATER JETS.</li> </ul>

## FILL AND BLEED INSTRUCTIONS

Priming the tool – After service, the riveter needs to be primed with fluid.

What is needed: a 1/8" Allen Wrench; the 700A77 Bleed Bottle

- Make sure that the power piston is lowered before priming (watch for fluid squirting from the pressurized port).
- Fill the handle subassembly with fluid almost to the gasket (about 1/8" below is also acceptable).
- Place the Return Spring, Piston and Head Cylinder on the gasket and tighten the four cap screws uniformly.
- Bleed the air; make sure to do this operation until the tool has full stroke and no more air bubbles are released into the bottle; you may need to help move the piston back in forth a few times before the tool is fully primed.

#### Air Bleeding (air removal and fluid refill)

What is needed:, a 1/8" Allen Wrench; the 700A77 Bleed Bottle

- Remove screw 19 and attach the bleed bottle bottom up (see picture).
- Cycle several times, changing the position of the tool every few cycles; make sure the empty part of the bleed bottle is always the highest part of the tool.
- Stop the process if the tool has full piston stroke and there are no more air bubbles released in any tool position

Issue	Possible cause	How to fix it	
	No air supply is connected	Make sure the riveter is connected to an air source	
	Faulty trigger (35)	Remove and replace trigger assembly.	
Piston (6) does not move after depressing Trigger	Faulty power piston( 57-59)	Service the Handle Subassembly (34).	
	Valve Spring (34) not correctly installed	Service the Air Valve; make sure the Sprint is snapped in properly	
Short piston stroke or low pulling force	Low hydraulic level or air in the hydraulic system	Bleed the hydraulic system as shown above	
Head piston (6) is slow	Damage inside the Head Cylinder (1)	Service the Head Cylinder.	
or it seizes	Clogged air muffler (51)	Remove, clean thoroughly with solvent and back-blow with compressed air	
Fluid leakage at the Head Cylinder (1)	Leaks around the gasket (32)	Tighten screws (33) until no more leaks are observed; if it still leaks, the gasket and pressure O-Ring (31, 32)must be replaced.	
	Leaks at the front or back of head cylinder (1)	Service the Head Cylinder (1).	
Fluid Leakage at the side hole of the handle	Packing Plug and Seal (53 through 56) damage	Overhaul the tool.	
Air leakage at the Air	Broken or dislodged valve spring (43)	Service Air Valve: items (47.48) from the inside of the	
48)	Worn or damaged valve spool seals	spool and the Air Mufler(51) may need to be cleaned or	
Slow / Sluggish cycle	Muffler(51) or Spool (45) are clogged up	replaced	
Head Piston (6) does not return, or it only returns partially (short stroke)	Compression Spring (19) is damaged or broken	Remove head assembly (1), replace the spring (27).	
	Return Piston (20, 21) or its seals are damaged or	or Remove the Head Assembly (1), replace the	
	broken:	damaged components.	
	Relief Valve Assy (16) malfunction	Repair or replace the relief valve	

## **TROUBLESHOOTING GUIDE**





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# **Declaration of Conformity**

We, Cherry Aerospace

## Located at 1224 East Warner Avenue, Santa Ana, CA 92705-0157, USA,

In accordance with the provisions of

## Machine Directive 2006/42/EC

Hereby declare under our sole responsibility that:

Equipment: Pneumatic Hydraulic Hand Riveter

## Model Number: G83A

Serial Number:

Date of Issue:

Is in conformity with the applicable requirements of the following standards:

EN ISO 12100:2010Safety of Machinery; General Principles; Risk Assessment and ReductionISO/TR 14121-1&2:2012Safety of Machinery, Risk assessmentISO11148-1:2011Hand Held Non-electric Power Tools- Safety RequirementsISO 8662-11:1999Hand-held portable power tools -- Measurement of vibrations at the handleISO 3744:2010Acoustics - Determination of sound power levels of noise sourcesISO 4413:2010Hydraulic fluid power - General Rules of safetyISO 4414:2010Pneumatic fluid power - General Rules of safety

Signed by: \_

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## The Technical documentation for the machinery is available from: Claude Couillandeau

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