ORIGINAL INSTRUCTIONS



G784 DOUBLE ACTION CHERRYLOCK® POWER TOOL

AEHUSPACE

G784 HYDRO-SHIFT INSTRUCTIONS

TABLE OF CONTENTS

Description2
Specifications for G7842
Safety Warnings2
Putting the tool in service
How to Use the G784
Pulling Pulling-Heads
Tool Capacity chart4
Standard CherryLOCK [®] (NAS1398 & 1399)4
Bulb CherryLOCK [®] (NAS1738 & 1739)4
Other Fastener Types, Adaptors
Maintenance and Repair / Fluid Safety Data5
Fill and Bleed Instructions
Tool Overhaul
Air Valve6
Head Sub-Assembly7
Handle Sub-Assembly7
Cross Section Drawing
Parts List9
Exploded View10
Troubleshooting11
Set-up and Adjustments
Declaration of ConformityBack Cover

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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.

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THE G784 HYDRO-SHIFT RIVETER

DESCRIPTION

The Cherry[®] G784 hydro-shift riveter is designed specifically for installing the standard (double action) CherryLOCK[®] Rivets.

It will install nearly all diameters of CherryLOCK[®] Rivets up to a half-inch grip, "A" group only. This powerful tool has been designed with many ergonomic features: low weight, low recoil, low noise and a comfortable fit in the operator's hand.

With proper adapters and pulling heads this tool can be used to install other types of rivets.

SPECIFICATIONS FOR G784

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 always consult CHERRY®.

 AIR PRESSURE
 90 to 110 psi (6,2 bar to 7,6 bar)

 STROKE
 7/8 inch (22,2 mm)

 PULLING FORCE
 2,600 lbs. (11,57 kN) @ 90 PSI (6,2 bar),

 WEIGHT
 8 lbs. (3,63 kg)

 NOISE LEVEL
 69.7 dB (A)

 VIBRATION
 less than 2,5 m/s2

 AIR CONSUMPTION
 0.27 SCF/cycle (7,65 L/cycle)

PUTTING THE TOOL IN SERVICE

The tool should be used with a regulated air-line; do not exceed the pressure posted on the tool label. If necessary, the Cherry in-line pressure regulator P1505 is available for purchase.







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 workpiece 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.
 The risks to others should also be considered; never pull rivet in the air or directed at any person
- The firsts to others should also be considered, never put river in the air of infected at any person
 Ensure that the workings into which the fastmourner are installed is securely find and prepare aligned and prepare
- Ensure that the workpiece into which the fasteners are installed is securely fixed and properly aligned and prepared
 Check that the means of protection from aligning of protection of another in place and it is in place
- 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 workpiece 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 recommended maximum operating air pressure; if a regulated airline is not available, the Cherry in-line pre-set air pressure regulator P/N P1505 may be used.
- 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.

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OPERATING INSTRUCTIONS Before using the tool:

- Read the tool manual and especially the safety instructions before first using the tool.
- Make sure that the riveter is properly set (see below) and in good working condition.
- Select the correct pulling head for the fastener to be installed
- Keep the pulling head clean, especially around the front end as debris or dried sealant will cause major installation issues

TOOL SET-UP AND ADJUSTMENTS

SHIFT POINT SETTING

This adjustment adjusts the flushness of break of the rivet stem.

Before adjusting, make sure to remove the Pulling Head and the Sleeve Cap; also connect tool to a power supply. Use setting gage 680A159 (included) to make adjustments as described below:

- Screw the small end of 680A159 gage onto head piston (16) until hand-tight.
- Gage Point D Gage Point C Gage Point A Gage Point A
- 2. Depress and hold trigger; observe the final position of the gage; Gage Point A should be flush with the front of the tool head as shown below in the right. Release trigger.

Warning: This tool cannot be set to points B and C

To make finite adjustments, turn the adjuster knob (39):

- Clockwise to increase gage protrusion (lower stem break)
- Counterclockwise to decrease gage protrusion (higher stem break).
- Cycle the tool after each adjustment and check the gage point; the adjustment is limited by the construction of the tool to 1/2 turn from the initial position.

SHIFT PISTON CHECK

- Use this procedure to make sure that the shift piston functions properly.
- Push the large (unthreaded) end of 680A159 gage over the head piston (16) until seating it inside of the riveter as shown in the schematic in the right. The front of the tool must align with the gage point D.
- Depress the trigger, while pushing the gauge onto the piston; at the end of the cycle, the gage should be pushed out, aligning point E to the front of the tool.

If the Shift Piston does not gauge correctly, it may be an indication of lack of fluid; bleed the system per page 5 and gage again. If this does not fix it, service/repair must be conducted.

HOW TO USE THE G784

- Select the proper pulling head for the diameter and type of fastener to be installed and attach it securely to the tool (see table below).
- Insert the rivet into the prepared hole in the structure.
- Push the pulling head onto the rivet stem, pushing the tool forward the front of the tool contacts the head of the rivet.
- While keeping the tool coaxial with the fastener, activate the trigger;
- Eject the broken stem via the front of the tool upon release of the trigger.











Standard Wiredraw CherryLOCK[®] Rivets (NAS1398 & NAS1399)

		Aluminum	n & Monel	Stainless Steel		
Rivet Dia.		CR2163	CR2162	CR2643	CR2642	
	Tool P/N	CR2263	CR2262	CR2653	CR2652	
		CR2563 CR2562 CR2663		CR2662		
		Univ.	Flush	Univ.	Flush	
		Head	Head	Head	Head	
-3	H681-3C	-	-	All Grips	All Grips	
-4	H681-4C	All Grips	All Grips	All Grips	All Grips	
-5	H681-5C	up to -08	up to -09	up to -08	up to -09	
-6	H681-6C	up to -08	up to -09	up to -08	up to -09	
-8	H681-8C	up to -08	up to -09	-	-	

	Aluminum	Stainless
	& Monel	Steel
	CR2164	CR2644
Tool P/N	CR2564	CR2664
	(NAS1097)	(NAS1097)
	Flush	Flush
	Head	Head
-	-	-
H681-4S	All Grips	All Grips
H681-5S	up to -09	up to -09
H681-6S	up to -09	-
H681-8S	up to -09	-

	Bulb Type CherryLOCK [®] Rivets (NAS1738 & NAS1399)									
			-	CR2238						CR2235
Rivet Dia.		Tool P/N	CR2249	CR2248		Tool P/N	CR2540		Tool P/N	CR2245
	Тс		CR2539	CR2538						CR2545
			CR2839	CR2838			CR2840			CR2845
			Univ. Head	Flush Head			156° Flush			Unisink
-4	н	681-4C	All Grips	All Grips		H681-4F	All Grips		H681B166-4	All Grips
-5	Н	681-5C	All Grips	All Grips		H681-5F	All Grips		H681B166-5	All Grips
-6	Н	681-6C	All Grips	All Grips		H681-6F	All Grips		H681B166-6	All Grips

RIVETER REPAIR AND MAINTENANCE

Tool must be serviced in case of malfunction, massive fluid loss or as part of your routine maintenance program.

Tools and Service Kits Needed

- Make sure that the proper service kit (ordered separately) and tools are available.
 - <u>G784KT tool kit, Needle Nose Pliers,</u>
 - G784KS service kit:



SERVICE PROCEDURE

AIR VALVE SUB-ASSEMBLY

Disassembly Instructions:

- Remove Retaining Ring (58) and Muffler (57).
- Pull the Valve Plug (56) and Spool Assembly (50) out with the help of tool P1178;
- If necessary, pull the Valve Sleeve (47) with tool 837B740 after dislodging the spring (48) with a needle-nose pliers and pulling it out.

Assembly Instructions:

Reverse the above procedures. Use Install tool 836B740 to push and snap the Spring (48) into its groove.

HEAD SUB-ASSEMBLY

Disassembly:

- Remove Head Cylinder subassembly from the Handle by removing the four cap screws used to tighten it.
- Remove cap screws and Stat-O-Seals (8 & 9) and drain the hydraulic fluid according to environmental regulations.
- Place the Head Cylinder (7) in a vise vertically with the Front-end Cap (3) upwards;
- Remove the Front-end Cap (3) with socket wrench 680A173; remove the Piston Stops (11).
- Turn the Head Cylinder in the vise so that the Rear-end Cap (33) is upwards; remove the Screws and the Plastic Adjuster Knob (38 & 39) with a 3/32 hex key. Remove the adjuster ring (40).
- Remove the Rear-end Cap (33); push the head piston (16) towards the rear to remove the Shift Piston Assembly.
- CAUTION: Valve parts (21), (24) and (25) must be kept together or replaced as a kit (680A40).

• Shift Piston Disassembly:

- Clamp it into the large hole of clamp wrench 680A48/49, locating on a polished surface. Tighten the wrench's cap screws securely; place the clamp wrench in a vise so the shift piston is facing upward. Place Shift Piston Tool 700A63 over the threads and against the shoulder of the head piston (16) to protect the seals. Remove the Piston Cap (12) with a second clamp wrench (680A48/49) tightened around the cap (smaller hole); use caution as the spring will pop out upon disassembly.
- Remove the valve seat (24) with an 11/16" wrench. Remove the valve stem (21) and the valve spring (19).

• End Cap Disassembly

- Turn the Cap Screw (37) counterclockwise until it stops (use a 5/32" hex key); remove the spiral Retaining Ring (29) with a sharp or pointed instrument- the Cap Screw (37) can then be turned clockwise until the Shift Stop (25) can be removed.
- Remove the Shift Screw (28) with 3/16 hex key; hold screw (37) with a 5/32" hex wrench. Remove the Cap Screw and the Index Washer (36 & 37). Push the Shift Screw (28) out.
- Remove the Release Piston (26) from the Rear Cap (33)

After servicing the tool, reverse the above procedures to re-assemble; make sure to use the proper tools and tighten the Front-end Cap (3) to 150-180 ft.-lbs. (203 to 244 N-m) torque.

HANDLE SUB-ASSEMBLY

Disassembly:

- Remove parts (84) through (87). Remove screws (70). Lift head assembly from the handle; empty and dispose of fluid according to environmental regulations.
- Unthread the locknut (82) with a 1/2" socket wrench and then remove the air piston (81) 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 (59) all the way up and remove packing plug (78) with the help of wrench 700B65.
- Tap the power cylinder (66) from the top; when loosened, it will fall through the bottom.
- Remove all the seals using a bent hook tool.

Assembly:

• The re-assembly sequence is the opposite of disassembly; to prevent damage to piston threads, the tightening torque for the locknut (82) must be between 50 and 59 in.-lb. (5.65 and 6.67 N-m).

G784 CROSS SECTION DRAWING



PART LIST FOR G784 (ITEM 784C1)

ITEM NO.	Part I	No.	DESCRIPTION					
784C3	784C3 HEAD CYLINDER ASSEMBLY							
1	680A10	03	SLEEVE CAP					
2	680A10)5	SPRING					
3	680B98	8	FRO	FRONT CAP				
4	P691		0-RI	NG (1.254, 1.114, .070)	2			
5	P652		BAC	(-UP RING (.874, .768, .053)	2			
6	P826		0-RI	NG (.879, .739, .070)	2			
7	784C2		HEAD	D CYLINDER BODY	1			
8	P572		STAT	-O-SEAL (.430, .180, .125)	2			
9	P573		BUTT	ON HD. CAP SCREW 10-32X1/4	2			
10	P904*;	*	DISO	GRIN O-RING (1.441, 1.301, .070)	2			
11	680A2	1	PIST	ON STOP	4			
12	680B99	Э	PIST	ON CAP	1			
13	P266		0-RI	NG (1.191, 1.051, .070)	1			
14	P651		BACI	(-UP RING (.686, .580,.053)	1			
15	P828**	*	DISO	GRIN O-RING (.694, .551, .070)	1			
16	680B1	51	HEAD	D PISTON	1			
17	P483		0-RI	NG (1.137, .859, .139)	1			
18	P657		BAC	(-UP RING (1.127, .891, .118)	1			
19	680A1	11	SHIF	SHIFT VALVE SPRING				
20	680A40		SHIFT VALVE					
	21	680/	\20 *	STEM, VALVE	1			
	22	P706	6	0-RING (.192, .116, 038)	1			
	23	P298	3	0-RING (.566,.426, .070)	1			
	24	680/	18*	VALVE SEAT	1			
	25	680/	19*	SHIFT STOP	1			
26	680A30	08	RELE	ASE PISTON SUB-ASSEMBLY	1			
27	P830**	*	DISO	GRIN O-RING (.629, .489, .070)	1			
28	680A95	5	SHIF	SHIFT SCREW				
29	P768		RETA	INING RING (INT. Ø.625)	1			
30	680C3		SHIF	T PISTON	1			
31	680A10	C	PIST	PISTON SPRING				
32	P690		0-RI	0-RING (1.129, .989, .070)				
33	680B93	3	REAR CAP					
34	P112		0-RING (.504, .364, .070)					
35	P650		RING BACK-UP (.496, .390, .053)					
36	680A92	2	INDEX WASHER					
37	P554		BUTT	ON HEAD CAP SCREW, 1/4-28X3/8	1			
38	P356		SOC.	HEAD. CAP SCREW, 4-40X1/4	2			
39	680A1	13	ADJU	STER KNOB	1			
40	680A1	12-2	FRICTION SPRING					
41	680A1	12	ADJU	STER RING (INCLUDES 680A112-2)	1			

*These parts cannot be purchased separately but must be ordered as a sub-assembly. ** No Substitutions.

ITEM NO.	Part N	о.	DESCRIPTION			
784C5	784C5 HANDLE ASSEMBLY					
42	530A35	5	SWIVEL I	SWIVEL BOLT		
43	P195		0-RING (.630, .424, .103)			
44	530A34 SWIVEL				1	
45	P1505		PRESET	PRESSURE REGULATOR	1	
46	P268		O-RING (.816, .676, .070)	4	
47	740B14	1	VALVE SI	LEEVE	1	
48	740A18	3	SPRING		1	
49	P891**	۲	DISOGRI	N O-RING (.566, .426, .070)	3	
50	740A15	5	VALVE S	POOL SUB-ASSEMBLY	1	
	51	740)B15-1*	VALVE SPOOL	1	
	52	700	A18*	FILTER	1	
	53	700	A69*	METERING SCREW	1	
54	P848		O-RING (.941801070)	2	
55	740B16	6	VALVE PI	LUG	1	
56	740A17	7	MUFFLEF	2	1	
57	P321		RETAININ	NG RING (INT. Ø 1.000)	1	
58	74048		POWER	PISTON & ROD ASSEMBLY	1	
	59	740	A10*	POWER PISTON ROD	1	
	60	740)A12*	PISTON STOP	1	
	61	740)Δ9*	POWER PISTON	1	
	62	740)Δ11*	CAP PISTON ROD	1	
63	P508	110		755 549 103)	1	
64	P908		BACKLIP	PRING (738 562 088)	1	
65	74007				1	
66	74007 D995				1	
67	F000	+	RETAINING RING		1	
69	P092**	k	DISOGRIN 0-RING (1.255, 1.049, .103)		1	
60	74002	-	DISOGRIN O-RING (1.068, .862, .103)		1	
70	740K3				1	
70	P223			285 145 070)	1	
71	702423	>		ASSEMPLY (INCLUDES 0222)	1	
72	703433	, ,	CASKET	ASSEMBLI (INCLUDES F223)	1	
73	100A22	<u>-</u> +	DISOCRI	N O PINC (270 220 070)	1	
75	P032**	+	DISOGRI	N O-RING (.575, .235,.070)	2	
76	P030		BACKLIB	P PINC (551 375 088)	2	
77	P113			1 505 1 299 103)	1	
79	740813	2	0-RING (1.505, 1.299, .103)		1	
70			P DING (4 245 2 875 185)	2		
80	P909		DAUN-UP RING (4.245, 3.875, .185)		1	
80 91	740P6				1	
82	140B0 P727				1	
02 02	F131		O DINC (4 102 2 007 102)		-	
00	P890		U-RING (4.193, 3.987, .103)		-	
04	74004		HANDLE BASE			
85	74005		RETAINING RING (INT. Ø 4.250)		1	
86	740B5	740B5 BASE COVER			1	
87	P884		RETAININ	NG RING (EXT. Ø 3.375)	1	
87	435-092		CE CERT	IFICATION LABEL	1	

EXPLODED VIEW OF G784



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

\triangle CAUTION \triangle

- 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

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

0.863 7.18 lbs. >200°C (392°F)

PRIMING THE TOOL

- To completely refill the tool (after the tool has been dismantled and re- assembled) take the following steps:
- 1. With the Head Cylinder removed, fill the Handle Assembly with fluid to within about 1/8" from the top; re-assemble and tighten the Head Cylinder.
- 2. Connect to an air source and remove Screws 8 from Head Cylinder (7).
- 3. Connect a pressurized fluid source to the front hole; circulate fluid until it flows smoothly, without spurting or air bubbles through the rear hole.
- 4. Re-attach the front Screw (8) and bleed per instructions below.

BLEEDING INSTRUCTIONS

- Remove back Screw (8) and connect the Air Bleeder (700A77) to the rear hole as shown in the picture on the left; trigger the tool several times until there are no air bubbles coming into the bleeder.
- Re-attach and tighten Screw and Stat-O-Seal (items 8 & 9).



TROUBLESHOOTING

PROBLEM	POSSIBLE REASONS / SOLUTIONS
Piston does not move	- No air supply is connected: Connect to a clean, filtered air source at 90 to 110 psi (6,2 to 7,6 bar).
after depressing Trigger	- Faulty trigger: Remove and replace trigger assembly.
	- Broken power piston: Service the Handle Subassembly.
Short stroke or low pull force	- Significant fluid loss: Bleed the system to purge the air out. If performance doesn't improve, or excessive leakage continues, see below.
Head Cylinder Fluid	- Leaks around the seals or fittings indicate that they are not tightened to seal properly: Tighten until no more leaks are observed.
leakage	- Leaks at the front or back of head cylinder indicate worn/ damaged seals
	- Service head cylinder per instructions provided herein
	- Broken or dislodged valve spring.
valve	- Worn or damaged valve spool seals: Disassemble and service air valve per Air Sub-Assembly Overhaul Instructions.
	- Piston or seal damage: Service head cylinder.
Head piston is slow or	- Oil bypassing due to power piston displacement off its seat: Service Handle Subassembly per instructions provided below.
501203	- Clogged air muffler or filter Clean thoroughly with solvent and back-blow with compressed air.
Shift Distan daga not	- Worn Seals or seized Shift Piston Assembly: disassemble and service the Head Cylinder
move forward	- Shift Valve spring (19) is damaged or broken: Inspect valve seat, poppet and spring; clean and replace as necessary.



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: G784

Serial Number:

Date of Issue:

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

•	·· · · ·
EN ISO 12100:2010	Safety of Machinery; General Principles; Risk Assessment and Reduction
ISO/TR 14121-1&2:2012	Safety of Machinery, Risk Assessment
ISO11148-1:2011	Hand Held Non-Electric Power Tools- Safety Requirements
ISO 8662-11:1999	Hand-Held Portable Power Tools Measurement of Vibrations at the Handle
ISO 3744:2010	Acoustics – Determination of sound power levels of noise sources
ISO 4413:2010	Hydraulic Fluid Power - General Rules of Safety
ISO 4414:2010	Pneumatic Fluid Power - General Rules of Safety

Signed by:

Cris Cobzaru, Sr. Technical Services / Installation Tooling Engineer Master of Science in Mechanical Engineering

The Technical documentation for the machinery is available from:

Claude Couillandeau,

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