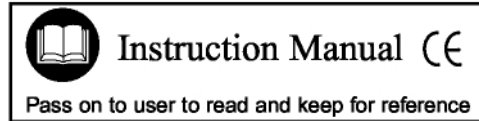


ORIGINAL INSTRUCTIONS

G784

HYDRO-SHIFT CHERRYLOCK® RIVETER
G784CLRB N S N 5130-00-935-4681



MANUAL



CHERRY®
AEROSPACE

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G784 HYDRO-SHIFT INSTRUCTIONS

TABLE OF CONTENTS

Description	2
Specifications for G784	2
Safety Warnings	2
Putting the tool in service	3
How to Use the G784	3
Pulling Pulling-Heads	3
Tool Capacity chart.....	4
Standard Cherrylock® (NAS1398 & 1399)	4
Bulb Cherrylock® (NAS1738 & 1739)	4
Other Fastener Types, Adaptors	4
Maintenance and Repair / Fluid Safety Data	5
Fill and Bleed Instructions	5
Tool Overhaul	6
Air Valve	6
Head Sub-Assembly	7
Handle Sub-Assembly	7
Cross Section Drawing	8
Parts List.....	9
Exploded View	10
Troubleshooting	11
Set-up and Adjustments	11
Declaration of Conformity	Back Cover

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. 714-850-6022

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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.

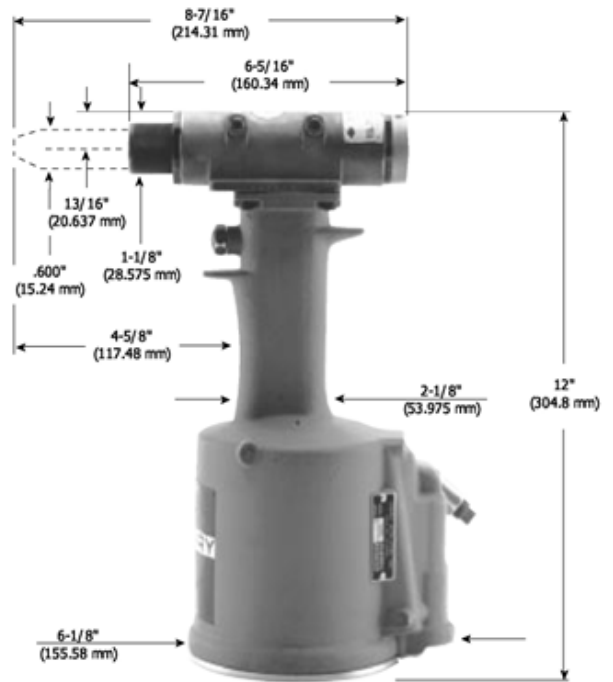
SPECIFICATIONS FOR G784

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/s ²
AIR CONSUMPTION	0.27 SCF/cycle (7,65 L/cycle)

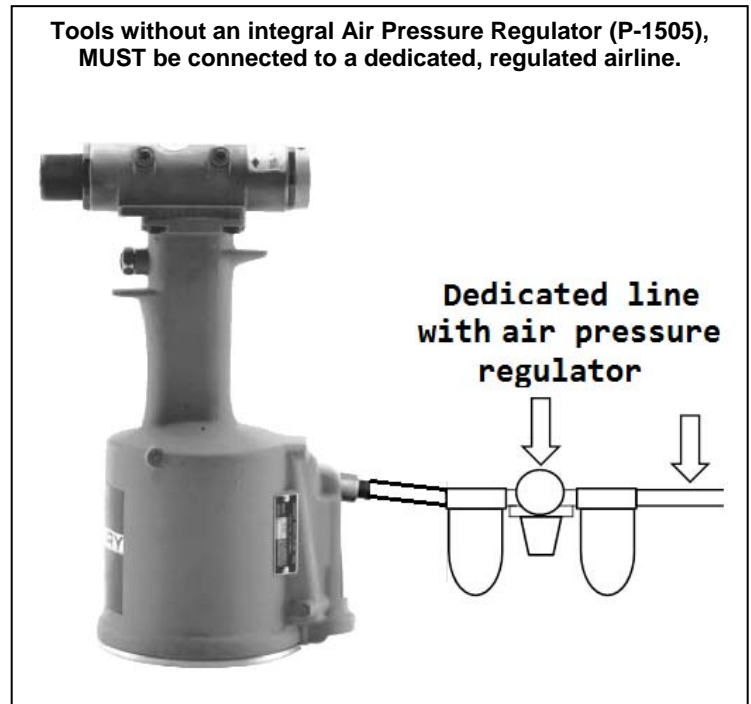
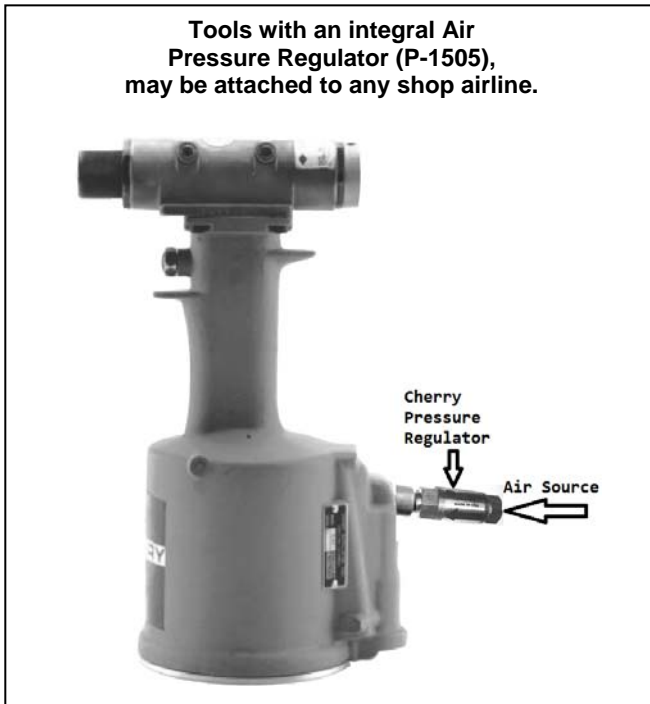


SAFETY WARNINGS

- Do not use beyond the design intent; do not use substitute components for repair.
- Use the tool with a pressure regulator; if one is not available, use the Cherry P-1505.
- Wear proper PPE when operating, repairing, or overhauling this tool ()
- Any modification will void warranty and shall be at the customer's entire responsibility.
- Maintain the tool in a safe working condition at all times and examined at regular intervals for damage.
- Before disassembling the tool for repair, refer to the maintenance instructions. All repairs shall be undertaken only by personnel trained in Cherry installation tools.
- Disconnect the air line from the tool inlet before servicing, adjusting, fitting or removing any accessory.
- Ensure that the vent holes do not become blocked or clogged and the hoses are in good condition.
- Wash thoroughly after handling the fluid; excessive contact could cause rashes.
- Operating air pressure not to exceed 110 psi (7.6 bar); use of a pre-set regulator (P1505) is recommended
- Do not operate the tool without the pulling head in place unless during set-up and adjustment.
- All retaining rings, screwed end caps, air fittings, trigger valves and pulling heads should be attached securely and examined at the end of each working shift.
- Do not pull rivet in the air or directed at any person.
- Do not pound on the rear of the tool head to force rivets into holes as this will damage the tool.
- Safety warnings must be explained all operators as part of training.

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.



HOW TO USE THE G784

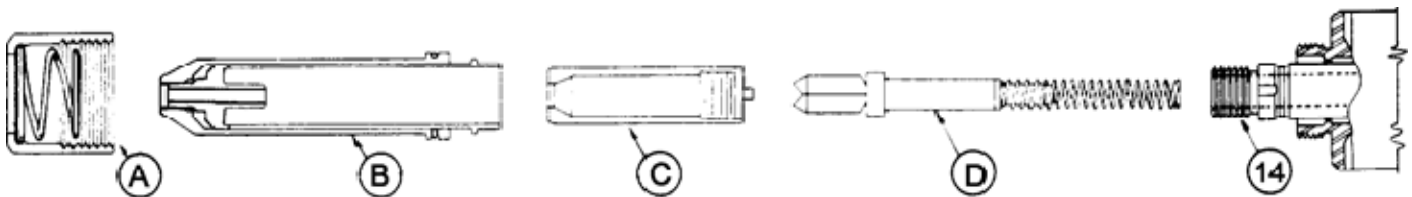
Select the proper pulling head and attach it securely to the G784.



- Insert the rivet into the application.
- Place the pulling head over the rivet stem, pushing the tool until the pulling head is in contact with the head of the rivet. Keep the tool coaxial with the fastener to prevent low stem breaks.
- Activate the trigger; after fastener installation the broken stem will be ejected forward upon release of the trigger.

PULLING HEADS

Pulling heads are not furnished with this tool and must be ordered separately. Make certain the pulling head is kept clean, especially around the riveting end, as adhesives, chips, sealants, etc., will clog up the serration of the jaws and may cause slippage of the stem. Please refer to the pulling head charts below for the proper selection. Be sure to specify the shank diameter of the rivets to be installed. See charts for use of adapters and other styles of pulling heads.



INSTALLING H681 SERIES PULLING HEADS ON RIVETER

1. Remove knurled cap (A) from front of riveter and place jaw assembly (D) inside collet (C).
2. Insert spring end of jaw assembly into hole in head piston (14). Thread collet onto the piston until it bottoms on shoulder of piston it locks. (To remove collet, push the lock back into collet using a blunt tool while turning collet counterclockwise).
3. Place sleeve assembly (B) over collet and head piston. Slip knurled cap (A) over the sleeve assembly and hand tighten onto riveter head.

TOOL CAPACITY CHART

The numbers shown in the rivet columns below are the maximum grip length that can be installed with this tool. Dashes indicate those rivet sizes which cannot be installed in any grip length.

STANDARD (WIREDRAW) CHERRYLOCK® (NAS1398 & 1399)

PULLING HEAD P/N	RIVET DIA.	RIVET TYPE / P/N					
		ALUMINUM		MONEL		ST. STEEL	
		CR2163	CR2164	CR2563	CR2562	CR2643	CR2642
			CR2164		CR2563	CR2653	CR2652
CR2263	CR2262	CR2564	CR2663	CR2662	CR2664		
				CR2662	CR2664		
PULLING HEAD TYPE							
UNIV.	CTSK.	UNIV.	CTSK.	UNIV.	CTSK.		
H681-3C	-3	-	-	-	-	ALL	ALL
H681-4C	-4	ALL	ALL	ALL	ALL	ALL	ALL
H681-5C	-5	8	9	8	9	8	9
H681-6C	-6	8	9	8	9	8	9
H681-8C	-8	8	9	8	9	-	-

BULB CHERRYLOCK® (NAS1738 & 1739)

PULLING HEAD	RIVET DIA	RIVET TYPE / P/N					
		ALUMINUM		MONEL		INCONEL	
		CR2235	CR2238	CR2539	CR2538	CR2839	CR2838
CR2249	CR2248	CR2545	CR2540	CR2845	CR2840		
PULLING HEAD TYPE							
UNIV.	CTSK.	UNIV.	CTSK.	UNIV.	CTSK.		
H681-4C	-4	ALL	ALL	ALL	ALL	ALL	ALL
H681-5C	-5	ALL	ALL	ALL	ALL	ALL	ALL
H681-6C	-6	ALL	ALL	ALL	ALL	ALL*	ALL*

*May require 95 psi (6.6 bar) air pressure at tool.

OTHER FASTENER TYPES

PULLING HEAD P/N	TYPE	ADAPTER	RIVET	RIVET DIA.	MAX. GRIP
H9055-3	Straight	680B46	CherryLOCK® "A"	3/32	ALL
H9055-4				1/8	8,9*
H9055-5				5/32	8,9*
H9055-6				3/16	8,9*
H9015-3C	Straight	680B46	MS	3/32	ALL
H9015-4C				1/8	ALL
H9015-5C				5/32	ALL
H9015-6C				3/16	ALL
H9040-4C	Straight	680B57	MS	3/32	ALL
H9040-5C				1/8	ALL
H9040-6C				5/32	ALL
H9040-8C				3/16	ALL
H642-4C40	Offset	680B57	CherryLOCK®	3/32	8,9*
H642-5C40				1/8	8,9*
H642-6C40				5/32	8,9*
H642-8C40				3/16	8,9*
H680-B200A	Straight		CherryMAX®	1/8,5/32,3/16	ALL
H781-456	Offset	680B205	CherryMAX®	1/8,5/32,3/16	ALL
H753A-456	Right Angle	680B205	CherryMAX®	1/8,5/32,3/16	ALL

*8 grip for protruding head, 9 grip for countersunk head.

MAINTENANCE AND REPAIR

This riveter has been manufactured to give maximum service with minimum care. For optimum function:

1. The hydraulic system to be full of oil and free from air at all times.
2. Use clean and dry air to prevent premature wear and clogging of the air components.
3. Inspect the riveter for fluid leaks routinely

Use automatic transmission fluid (ATF) type “A” (no substitutes). Cherry® Aerospace recommends using, Dexron® III ATF.

FIRST AID
 Skin: Wash thoroughly with soap and water as soon as possible. Casual contact requires no immediate attention. If irritation develops, consult a physician.
 Ingestion: Seek medical attention immediately. **DO NOT INDUCE VOMITING.**
 Eyes: Flush with copious amounts of water. If irritation develops, consult a physician.
 Inhalation: No significant adverse health effects are expected to occur on short term exposure. Remove from contaminated area. Apply artificial respiration if needed. If unconscious, consult physician.

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

ENVIRONMENT
 Waste Disposal: In accordance with local, state and federal regulations.
 Spillage: Prevent entry into drains, sewers and water courses. Soak up with diatomaceous earth or other inert material. Store the spent fluid in appropriate containers for disposal.

HANDLING
 Eye protection required. Protective gloves recommended. Chemically resistant boots and apron recommended. Use in well-ventilated area.

COMBUSTIBILITY
 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.

STORAGE
 Avoid storage near open flame or other sources of ignition.

PROPERTIES

<i>Specific gravity</i>	0.863
<i>Weight per gallon</i>	7.18 lbs.
<i>Open flash point</i>	>200°C (392°F)

FILLING INSTRUCTIONS

- To replace a small amount of oil in the tool, remove cap screw (8) from side of head cylinder and attach the 700A77 Air Bleeder (see picture). Connect the tool to the air line and cycle several times.
- 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

1. 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.
2. Re-attach and tighten Screw and Stat-O-Seal (items 8 & 9).

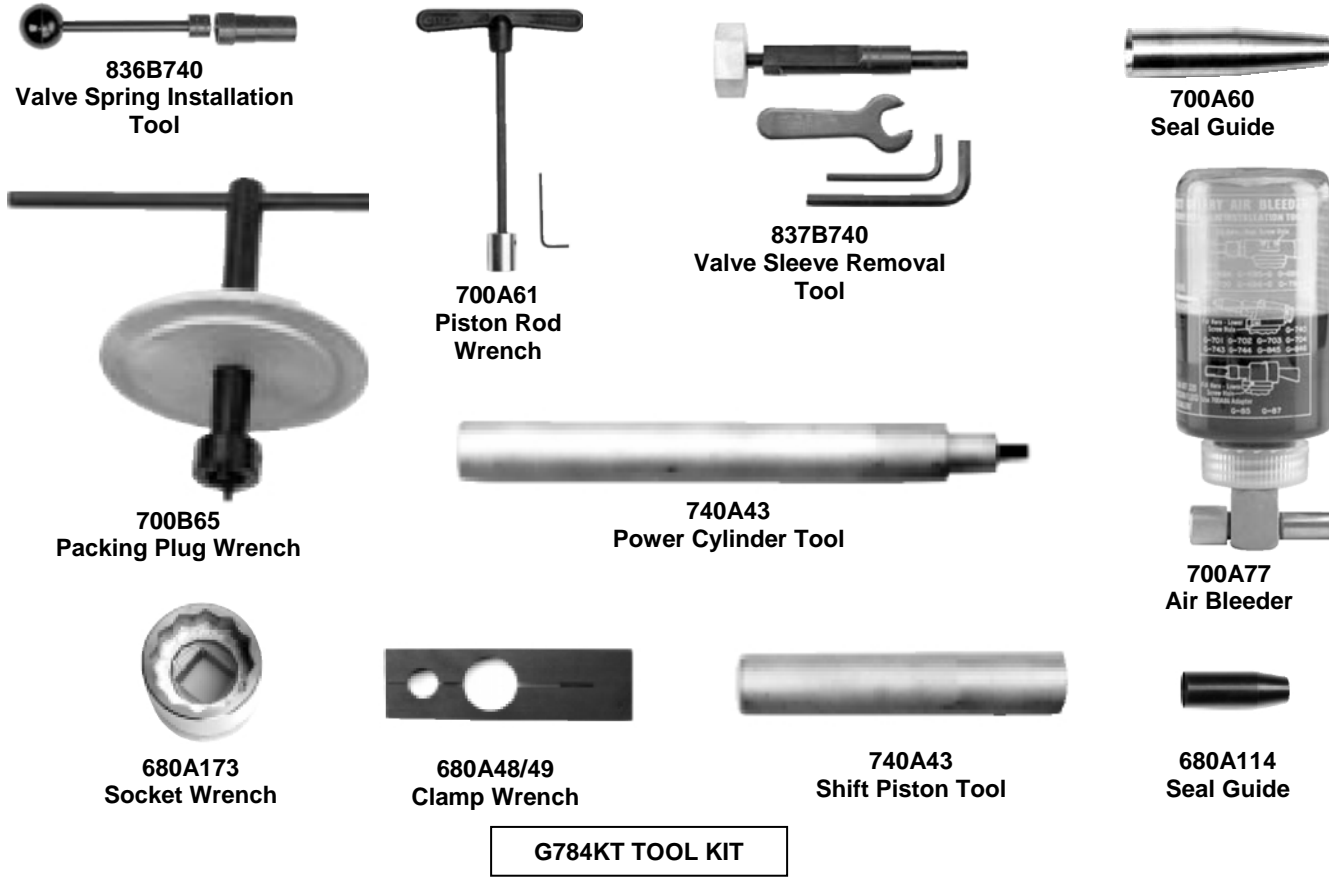




TOOL OVERHAUL

Tool overhaul is needed in case of tool malfunction, massive fluid loss or as part of your routine maintenance program.

TOOLS NEEDED: **G784KT** – tool kit, **Needle Nose Pliers**, **G784KS** – service kit:



OVERHAUL PROCEDURE

Caution:

- Maintenance and repair to be conducted only by trained personnel.
- Prior to attempting any repair or maintenance work, make sure the air is disconnected.
- Follow these instructions. 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 tool overhaul, fill and bleed per instructions on page 5.

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

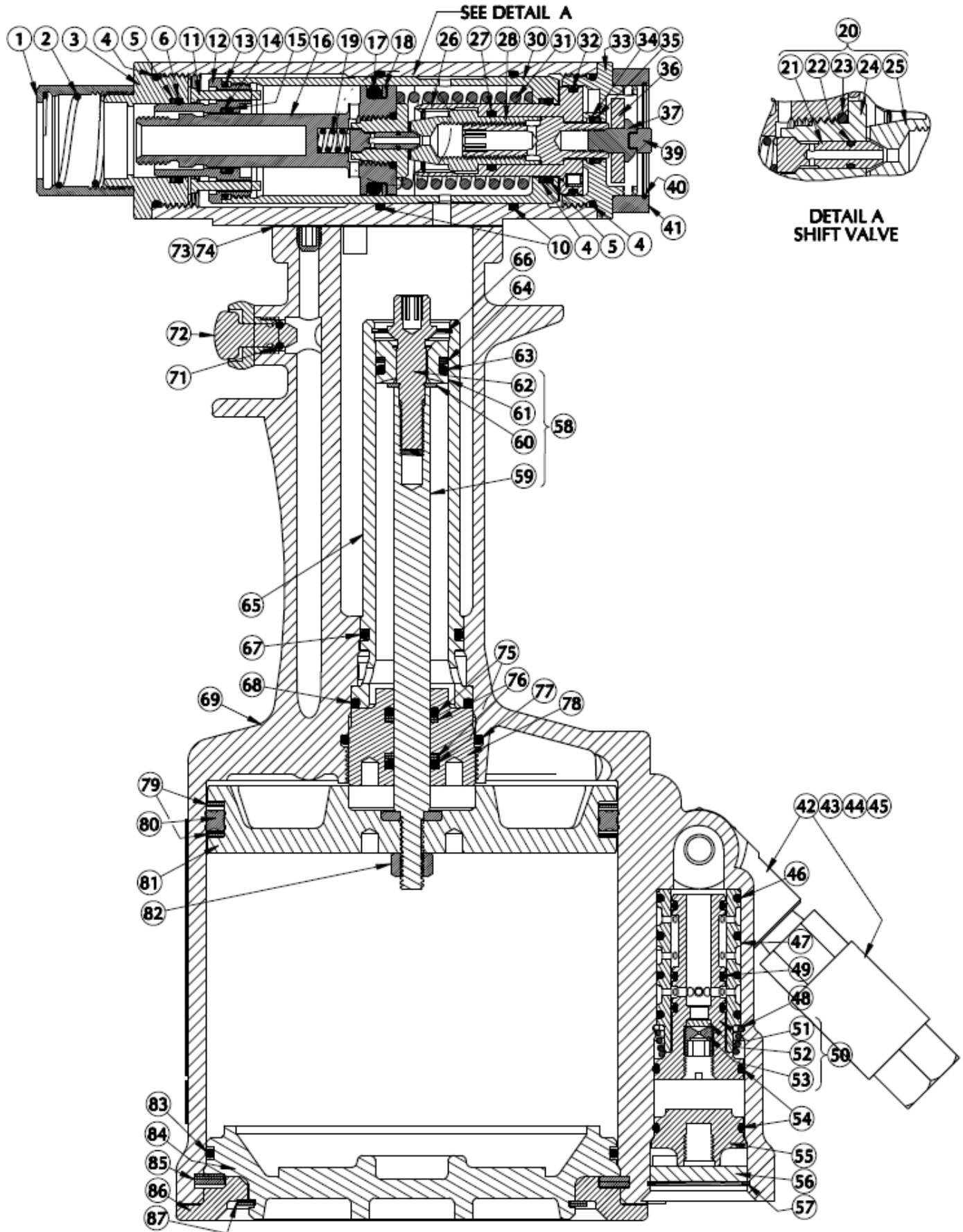
Disassembly:

- 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).

SECTION DRAWING OF G784



PART LIST FOR G784 (ITEM 784C1)

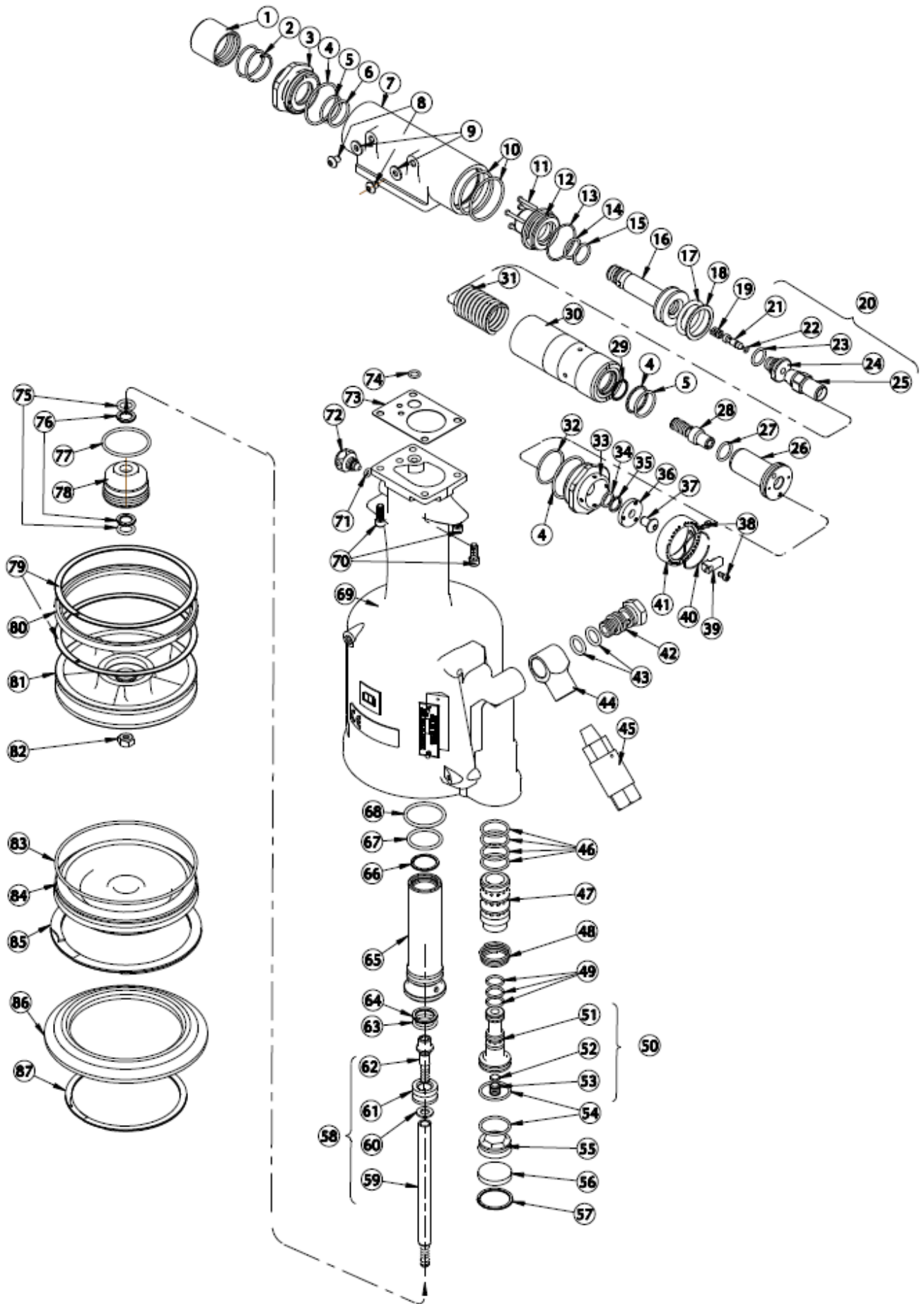
ITEM No.	Part No	DESCRIPTION	QTY.	
784C3 HEAD CYLINDER ASSEMBLY				
1	680A103	SLEEVE CAP	1	
2	680A105	SPRING	1	
3	680B98	FRONT CAP	1	
4	P-691	O-RING (1.254, 1.114, .070)	2	
5	P-652	BACK-UP RING (.874, .768, .053)	2	
6	P-826	O-RING (.879, .739, .070)	2	
7	784C2	HEAD CYLINDER BODY	1	
8	P-572	STAT-O-SEAL (.430, .180, .125)	2	
9	P-573	BUTTON HD. CAP SCREW 10-32X1/4	2	
10	P-904**	DISOGRIN O-RING (1.441, 1.301, .070)	2	
11	680A21	PISTON STOP	4	
12	680B99	PISTON CAP	1	
13	P-266	O-RING (1.191, 1.051, .070)	1	
14	P-828**	DISOGRIN O-RING (.694, .551, .070)	1	
15	P-651	BACK-UP RING (.686, .580, .053)	1	
16	680B151	HEAD PISTON	1	
17	P-483	O-RING (1.137, .859, .139)	1	
18	P-657	BACK-UP RING (1.127, .891, .118)	1	
19	680A111	SHIFT VALVE SPRING	1	
20	680A40	SHIFT VALVE	1	
	21	680A20*	STEM, VALVE	1
	22	P-706	O-RING (.192, .116, .038)	1
	23	P-298	O-RING (.566, .426, .070)	1
	24	680A18*	VALVE SEAT	1
	25	680A19*	SHIFT STOP	1
26	680A308	RELEASE PISTON SUB-ASSEMBLY	1	
27	P-830**	DISOGRIN O-RING (.629, .489, .070)	1	
28	680A95	SHIFT SCREW	1	
29	P-768	RETAINING RING (INT. Ø.625)	1	
30	680C3	SHIFT PISTON	1	
31	680A10	PISTON SPRING	1	
32	P-690	O-RING (1.129, .989, .070)	1	
33	680B93	REAR CAP	1	
34	P-112	O-RING (.504, .364, .070)	1	
35	P-650	RING BACK-UP (.496, .390, .053)	1	
36	680A92	INDEX WASHER	1	
37	P-554	BUTTON HEAD CAP SCREW, 1/4-28X3/8	1	
38	P-356	SOC. HEAD. CAP SCREW, 4-40X1/4	2	
39	680A113	ADJUSTER KNOB	1	
40	680A112-2	FRICTION SPRING	1	
41	680A112	ADJUSTER RING (INCLUDES 680A112-2)	1	

ITEM NO.	Part No.	DESCRIPTION	QTY.	
784C5 HANDLE ASSEMBLY				
42	530A35	SWIVEL BOLT	1	
43	P-195	O-RING (.630, .424, .103)	2	
44	530A34	SWIVEL	1	
45	P-1505	PRESET PRESSURE REGULATOR	1	
46	P-268	O-RING (.816, .676, .070)	4	
47	740B14	VALVE SLEEVE	1	
48	740A18	SPRING	1	
49	P-891**	DISOGRIN O-RING (.566, .426, .070)	3	
50	740A15	VALVE SPOOL SUB-ASSEMBLY	1	
	51	740B15-1*	VALVE SPOOL	1
	52	700A18*	FILTER	1
	53	700A69*	METERING SCREW	1
54	P-848	O-RING (.941, .801, .070)	2	
55	740B16	VALVE PLUG	1	
56	740A17	MUFFLER	1	
57	P-321	RETAINING RING (INT. Ø 1.000)	1	
58	740A8	POWER PISTON & ROD ASSEMBLY	1	
	59	740A10*	POWER PISTON ROD	1
	60	740A12*	PISTON STOP	1
	61	740A9*	POWER PISTON	1
	62	740A11*	CAP, PISTON ROD	1
63	P-508	O-RING (.755, .549, .103)	1	
64	P-908	BACK-UP RING (.738, .562, .088)	1	
65	740C7	POWER CYLINDER	1	
66	P-885	RETAINING RING	1	
67	P-892**	DISOGRIN O-RING (1.255, 1.049, .103)	1	
68	P-833**	DISOGRIN O-RING (1.068, .862, .103)	1	
69	740R3	HANDLE	1	
70	P-71	SOC. HEAD CAP SCREW, 10-32X1/2	4	
71	P-223	O-RING (.285, .145, .070)	1	
72	703A33	TRIGGER ASSEMBLY (INCLUDES P-223)	1	
73	700A22	GASKET	1	
74	P-832**	DISOGRIN O-RING (.379, .239, .070)	1	
75	P-838**	DISOGRIN O-RING (.568, .362, .103)	2	
76	P-115	BACK-UP RING (.551, .375, .088)	2	
77	P-889	O-RING (1.505, 1.299, .103)	1	
78	740B13	PACKING PLUG	1	
79	P-909	BACK-UP RING (4.245, 3.875, .185)	2	
80	P-887	QUAD RING	1	
81	740B6	AIR PISTON	1	
82	P-737	CONELOK NUT, 1/4-20	1	
83	P-890	O-RING (4.193, 3.987, .103)	1	
84	740C4	HANDLE BASE	1	
85	P-886	RETAINING RING (INT. Ø 4.250)	1	
86	740B5	BASE COVER	1	
87	P-884	RETAINING RING (EXT. Ø 3.375)	1	

*These parts cannot be purchased separately, but must be ordered as a sub-assembly.

** No Substitutions.

EXPLODED VIEW OF G784



TROUBLESHOOTING

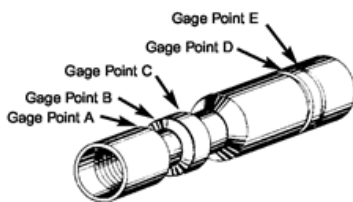
PROBLEM	POSSIBLE REASONS / SOLUTIONS
Piston does not move after depressing Trigger	- No air supply is connected: Connect to a clean, filtered air source at 90 to 110 psi (6,2 to 7,6 bar).
	- Faulty trigger: Remove and replace trigger assembly.
	- Broken power piston: Service the Handle Subassembly.
Short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

TOOL SET-UP AND ADJUSTMENTS

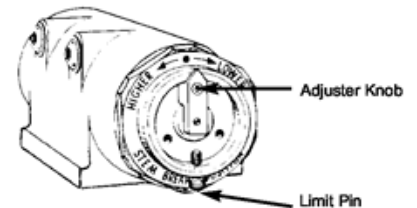
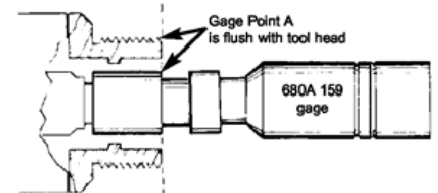
SHIFT POINT SETTING

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:



1. Screw the small end of 680A159 gage onto head piston (16) until hand-tight.
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.



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

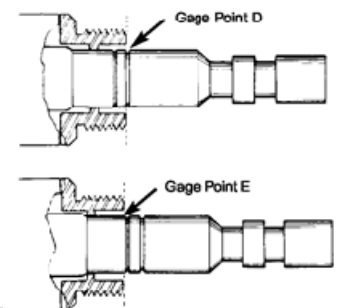
- Clockwise to increase gage protrusion (lower stem break)
- Counterclockwise to decrease gage protrusion (higher stem break).

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 gauge again. If this does not fix it, service/repair must be conducted.



**CHERRY**® AEROSPACE
SPS Fastener Division, a PCC Company

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: G-784

Serial Number: _____

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

EN ISO 12100:2010	Safety of Machinery; General Principles for design; Risk Assessment and Reduction
ISO/TR 14121-1&2:2007	Safety of Machinery, Risk assessment
EN 792-1:2000 + A1:2008	Safety requirements; Assembly power tools for non-threaded mechanical fasteners
ISO 8662-11	Hand-held portable power tools -- Measurement of vibrations at the handle
ISO 3744	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,

Master of Science in Mechanical Engineering

Sr. Technical Services / Installation Tooling Engineer

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