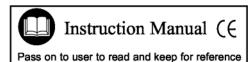
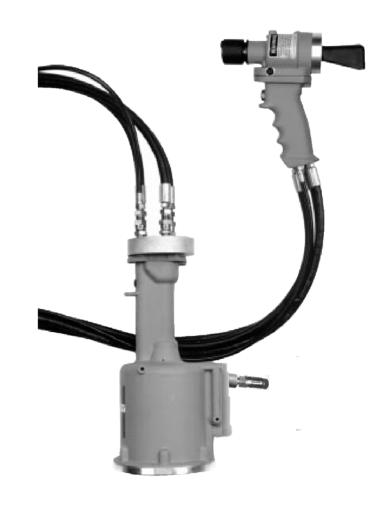
ORIGINAL INSTRUCTIONS

DATE: 4/30/15, DCR# 15-0403

G85D-S

Split Lockbolt Power Riveter







THE G85D-S 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. 714-850-6022

LOCTITE® is a registered trademark of Henkel Corporation DEXRON® is a registered trademark of 6M corporation. PARKER® is a trademark of Parker Hannifin Corporation LUBRRIPLATE® is a trademark of Fiske Brothers Refining Co.

DESCRIPTION

The Cherry® G85D-S pneumatic-hydraulic lockbolt installation tool is a heavy duty production tool designed for high speed, reliable installation of the most popular sizes of aircraft lockbolts

This "split" unit helps accessing tight areas and reduces operator fatigue. Its durable, all metal housing makes this tool very robust for use in a shop environment.

This tool installs all 3/16", 1/4" and 5/16" diameter Lockbolts® (any material type) and 3/8" diameter aluminum lockbolts.

It can also install selected blind bolts and blind rivets.

SPECIFICATIONS

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 us.

AIR PRESSURE 90 PSI (6.2 bar) Min. / 110 PSI (7,6 bar) Max.

STROKE 0.720 in. (18,3 mm)

PULLING FORCE 7,000 lbs. (31,1 kN) @ 90 PSI (6,2 bar),

WEIGHT Head Only: 4.3 lbs. (1,95 kg)

Total:19.3 lbs. (8,75 kg),

NOISE LEVEL 76.7 dB (A)
VIBRATION less than 2.5 m/s2

AIR CONSUMPTION 0.27 SCF/cycle (7.65 L/cycle)

5-7/8" (215.9 mm) 1-1/4" (31.8 mm) 8-1/8" (206.4 mm)

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8-1/2"

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.
- Operating this tool with a damaged or missing stem deflector, or using the deflector as a handle, may result in severe personal injury. Rotate the pin deflector facing away from the operator
- Wear proper PPE when operating, repairing, or overhauling this tool (
 - ool (Total Colonial Colonial
- 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.
- 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

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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.

Cherry provides a compact in-line air pressure regulator, but any shop air pressure regulator can be used on the dedicated line (see below schematics)





HOW TO USE THE G85D-S LOCKBOLT







- After selecting the proper pulling head and attaching it to the riveter, connect the air-line to the tool.
- Place the Lockbolt® pin into the work-piece and place the collar over the pintail; it may be necessary to hold the Lockbolt® from backing out when placing the pulling head over the serrations.
- If you are using a non-self-releasing pulling head, make sure the collar is placed on the Lockbolt® pintail before placing the pulling head on the pintail. Once the pintail is inserted into the pulling head the jaws will grip the pintail and prevent it from moving out of the front of the pulling head.
- If there is sheet gap or a gap between the head of the Lockbolt® and the workpiece, it may require multiple stroking of the tool for complete installation.
- The pintail will eject through the rear of the riveter when using H513 straight pulling heads, and through the rear of the H562 offset pulling heads.
- If the tool does not kick off the swaged collar, shims should be added behind the collet of the pulling head. See pulling head installation instructions

BLIND BOLTS

- Insert the blind bolt into the proper pulling head until the head of the rivet is in contact with the pulling head nosepiece.
- Insert the blind bolt into the application and pull the trigger to activate the tool; upon the release of the trigger, the stem will eject to the rear of the tool.

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PULLING HEADS (NOSE ASSEMBLIES)

Nose assemblies are not furnished and must be ordered separately. Make certain the nose assembly is kept clean, especially around the riveting end, as adhesives, chips, sealants, etc., will clog up the serration of the jaws and may cause the stem to slip. Please refer to the pulling head charts below for the proper selection. All Huck pulling heads suitable for the 353 style tool will fit directly on this tool.

G85D-S PULLING HEAD SELECTION CHART

	Length from	1. Straight Nose			2. Chisel Nose	3. Offset
Lockbolt Diameter	Tool Face, (in inches, except Column 3)	Short Pintail	Swivel	Swivel Self- Releasing	Swivel Self- Releasing	
	2	H513-04-20*	-	-	-	H563-4B*
1/8"	3-1/2	H513-04-35*	-	-	-	H563SP-4B*
	6	-	-	-	-	-
	2	-	H513S-05-20*	H513SR-05-20*	H513SRC-05-20*	H563-5B*
5/32"	3-1/2	H513-05-35*	H513S-05-35	H513SR-05-35	H513SRC-05-35*	H563SP-5B*
	6	H513-05-60*	-	-	-	-
	2	H513-06-20*	H513S-06-20*	H513SR-06-20*	H513SRC-06-20*	H563-6B*
	2-3/8	-	H513S-06-24	H513SR-06-24	-	H562-6B
3/16"	3-1/2	1	H513S-06-35*	H513SR-06-35*	H513SRC-06-35*	H563SP-6B*
	4-13/16	-	H513S-06-48	H513SR-06-48	-	-
	6	H513-06-60*	-	-	-	-
	2-3/8	-	H513S-08-24	H513SR-08-24	-	H562-8B
1/4"	3-1/2	H513-08-35*	H513S-08-35*	-	-	-
	4-13/16	-	H513S-08-48	H513SR-08-48	H513SRC-08-48	-
F/40"	2-11/16	-	H513S-10-27	H513SR-10-27	-	-
5/16"	4-3/16	-	H513S-10-42	H513SR-10-42	-	-
	2-11/16	-	H513S-12-27	H513SR-12-27	-	-
3/8"	4-3/16	-	H513S-12-42	H513SR-12-42	-	-

^{*} These Parts require the 552 adapter when used on cherry G85D-S, G87D or Huck 353. Parts with an asterisk fit directly on the Cherry G83 or Huck 352 tools.

NOTES: S = Swivel; R = Self Releasing; C = Chisel Nose; SP = Short Pintail

MAXIBOLT PULLING HEADS AND ADAPTERS

	PART NO.	MAXIBOLT DIA.	ADAPTER
	H652-8MB	-8	-
OTDAIOLIT	H83B-5MB	-5	552
STRAIGHT PULLING	H83B-6MB	-6	552
HEAD	H84A-8MB	-8	552
TILAD	H744-5MB	-5	560-070
	H744-6MB	-6	560-070
OFFSET	H856-6MB	-6	560-070
DIQUIT ANOLE	H828-5MB	-5	560-070
RIGHT ANGLE	H828-6MB	-6	560-070

CHERRYMAX® PULLING HEADS AND ADAPTERS

ĺ		PART NO.	CHERRYMAX® DIA.	ADAPTER
	STRAIGTH]	H84A-8	-8	552
	OFFSET	H827-8	-8	560-070
ĺ	RIGHTANGLE	H828-8	-8	560-070

Note: When using the 560-070 adapter, G85D-S will accept all 744B35 extensions.

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.

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- 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

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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

Specific gravity 0.863

Weight per gallon 7.18 lbs.

Open flash point >200°C (392°F)

FILL AND BLEED INSTRUCTIONS



BLEEDINGTHE SYSTEM

- To replace a small amount of fluid in the tool, remove cap screw (31) and replace with the Cherry Air Bleeder 700A77 & Adapter 700A86 as shown in the picture on the left.
- Connect the air line and cycle several times until no air bubbles surface in the bottle anymore while cycling the tool.

REFILLING THE SYSTEM

To completely refill the tool (a source of pressurized fluid is needed:

- Place the Power Unit in a container big enough to contain any fluid spills.
- Remove screws # 13 & 21. Replace screw 31 with a pressurized fluid source (red arrow in the right picture). Hold the handle and Head Cylinder at highest position.
- Run fluid through the system until it comes out of the Head Cylinder smooth, free of air bubbles.
- Tighten screw #13 & 21 back in and bleed per procedure given above.

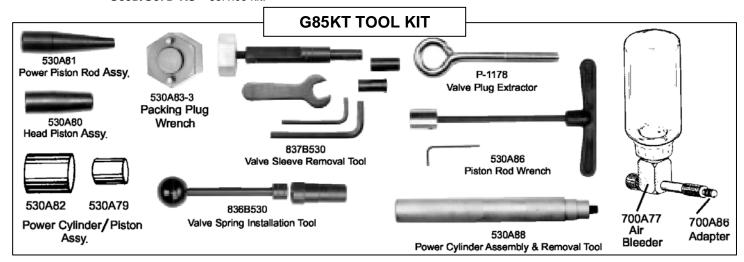
TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE REASONS / SOLUTIONS
	- No air supply is connected: Connect to a clean, filtered air source at 90 to 110 psi (6,2 to 7,6 bar).
Piston does not move 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 leakage	- Leaks around the seals or fittings indicate that they are not tightened to seal properly: Tighten until no more leaks are observed.
Tieau Cyllinder i fuid leakage	- 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 (item 59)- Remove and replace spring
	- Worn or damaged valve spool seals: Disassemble and service the air valve
	- Piston or seal damage: Service head cylinder.
Head piston is slow or seizes	- 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.
	- Pressure relief valve (items 14 through 19) malfunction: Remove, inspect and clean components thoroughly. Replace seals and damaged components.
Head Piston (64) does not return fully forward even after system bleeding	- Return Cylinder Spring (46) is damaged or broken: Remove head assembly and replace the damaged spring.
	- Seal surface between Return Piston (48) and Piston Rod Cap (75) is damaged or dirty: Remove head assembly and inspect the parts; replace/clean as necessary.

TOOL SERVICE / OVERHAUL

Tool overhaul is needed in case of tool malfunction, massive fluid loss or as part of your routine maintenance program. TOOLS NEEDED: **G85KT** – tool kit, **Needle Nose Pliers**,

G85D/G87D-KS - service kit:



SERVICE PROCEDURE

Caution:

- Maintenance and repair to be conducted only by trained personnel.
- · Make sure the air is disconnected prior to attempting any repair or maintenance work.

Disassembly / Assembly General Instructions:

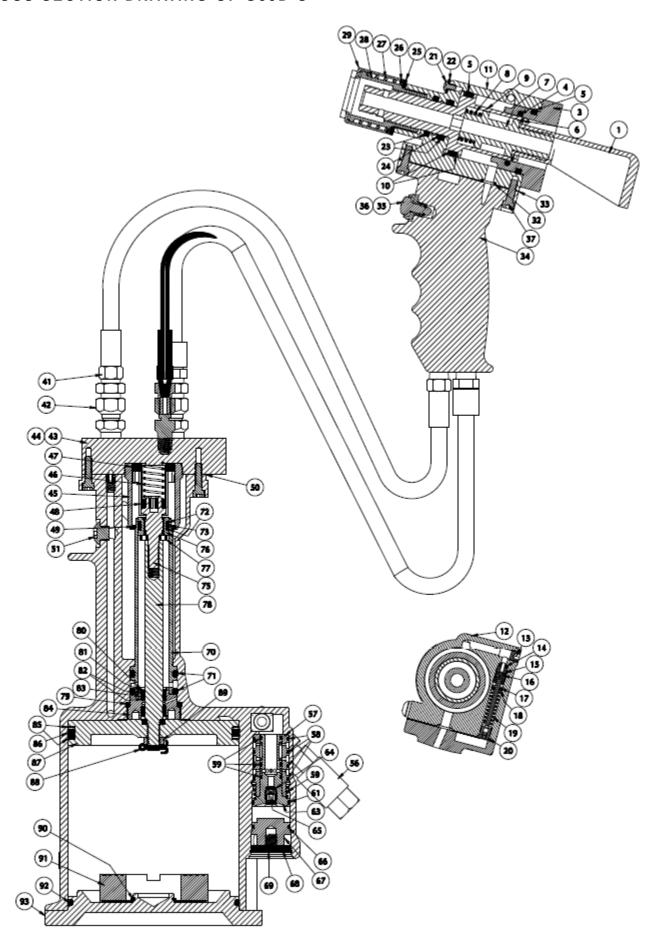
- Follow the schematics and the BOM provided below; only use proper tooling (see tooling Kit G85KT) to disassemble/assemble
 the tool.
- Empty oil into a container by draining from head, hoses and power unit. Dispose of it according to environmental regulations.
- Use a bent hook to gently remove the O-Rings, Quad Rings and Back-up Rings.
- Use the protective caps 530A80 and 530A81 on the piston threads to prevent Seal 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.
- Tighten the slotted nut (item 89) using a torque between 50 and 59 in.-lb. (5,65 and 6,67 N-m). Do not over-tighten as it may damage the piston.
- If replacing the Hoses (38, 39 & 40) make sure that they are assembled at the right location: the High Pressure Hoses (item 38) at ports 2 & 4, Air Hose at port 1, Low Pressure Hose at port 3.
- Before pressure testing, make sure that all the screws are tightened securely.
- After service, fill and bleed the tools per instructions on page 6.

AIR VALVE SUB-ASSEMBLY

Disassembly Instructions:

- After removing the retaining ring and muffler (68 & 69), pull the Valve Plug (67) and Spool Assembly (61) using tool P1178;
- It is not usually necessary to pull the Valve Sleeve (57) out. If it becomes necessary, use tool 837B740
- When re-assembling, use tool 836B740 to push the Valve Spring (59) into its groove.

CROSS SECTION DRAWING OF G85D-S



PART LIST FOR THE G85D-S (530D120A) SPLIT RIVETER ASSEMBLY

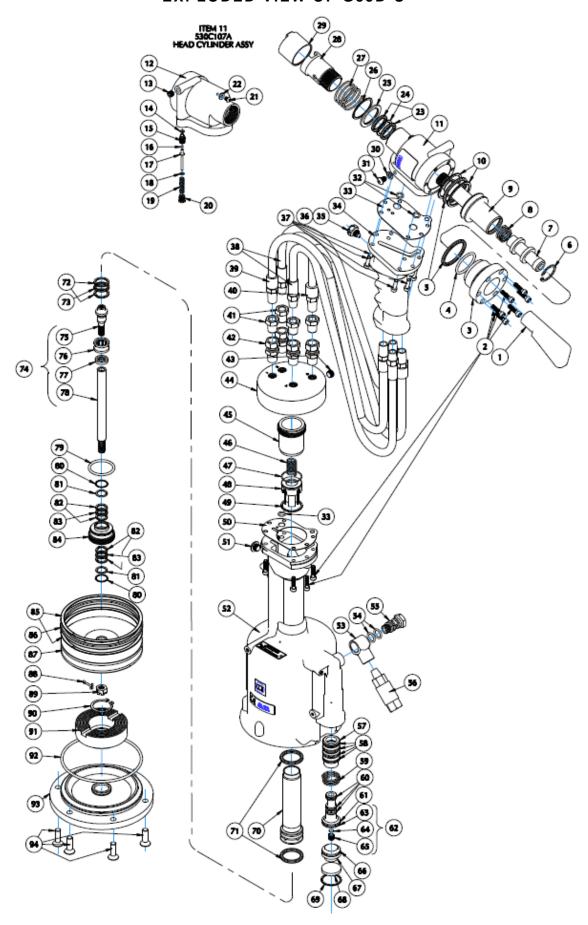
1	ITEM NO.	DESCRIPTION			QTY		
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2 P-64 SCREW, SOC. HD. CAP 10-24 X 3/4 12 3 530B7 HEAD CAP 1 4 P-196 O-RING (1.574,1.296, .139) 1 5 P-221 QUAD RING (1.762, 1.484, .139) 2 6 P-206 RETAINING RING 1 7 530A17 DEFLECTOR FITTING 1 8 530A20-1 SPRING 1 10 P-212 BACK-UP RING (1.742, 1.500, .121) 2 11 530C107A HEAD ASSEMBLY 1 12 530C107 HEAD CYLINDER 1 13 P-370 PIPE PLUG SCREW 1 14 P-595 O-RING (.254,.114,.070) 1 15 530A22-2 SEAT, BALL 1 16 P-164 BALL, STEEL Ø 1/8 1 17 530A47 GUIDE, SPRING 1 18 P-425 WASHER 1 19 530A20-3 SPRING 1 20 530A48 PLUG, 5/16-24 1 21 P-413 BUTTON HEAD SCREW 1 22 P-693 STAT-O-SEAL 1 23 P-217 QUAD RING (1.137, .859, .139) 2 24 P-210 BACK-UP RING (1.117, .875, .121) 1 25 530A40** THRUST WASHER 1 26 P-236** RETAINING RING (INT. Ø 1.456) 1 27 530A42** LOCKING SPRING 1 28 530A5** HEAD EXTENSION 1 39 530A60** LOCKING SLEEVE 1 30 530A60** LOCKING SLEEVE 1 30 530A40** THEOST RETAINING RING (INT. Ø 1.456) 1 31 P-225 BUTTON HD. CAP SCREW (1/4-20 X 1 4 5 30 D106 HAND GRIP 1 34 530B108 HEAD GASKET (HANDLE) 1 35 703A33 TRIGGER ASSEMBLY (INCLUDES 1 1 5 30 A119-8 AIR HOSE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
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46 560A20 SPRING 1 47 P-266 O-RING (1.191, 1.051, .070) 1 48 530B10B RETURN PISTON 1 49 P-267 RETAINING RING (INT. Ø 1.188) 1	44	530B109			·	1	
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48 530B10B RETURN PISTON 1 49 P-267 RETAINING RING (INT. Ø 1.188) 1	46	560A20				1	
49 P-267 RETAINING RING (INT. Ø 1.188) 1	47	P-266		O-RING (1.191, 1.051, .070)		1	
49 P-267 RETAINING RING (INT. Ø 1.188) 1	48	530B10B		RETU	JRN PISTON	1	
	49					1	
50 530B8 HEAD GASKET (MANIFOLD) 1	50	530B8		HEA	D GASKET (MANIFOLD)	1	

ITEM	TEM				
NO.	I DESCRIPTION I OT				
530D149 POWER UNIT ASSEMBLY					
51	530A113		BUT	TON HD. CAP SCREW	1
52	530A	146	POW	ER UNIT HANDLE	1
53	530A	.34	SWI	/EL	1
54	P-19	5	O-RII	NG (.630, .424, .103)	2
55	530A	.35	SWI	/EL BOLT	1
56	P-150	05	PRE-	SET PRESSURE REGULATOR	1
57	530B	179		VE SLEEVE	1
58	P-848	3	O-RII	NG (.941, .801, .070)	4
59	P-70	1	O-RII	NG (.629, .489, .070)	3
60	P-24	4	O-RII	NG, (1.066, 926, .070)	1
61	530B	143	VAL	VE SPOOL ASSEMBLY	1
	62	530B14	13-1*	VALVE SPOOL	1
	63	700A18	3*	FILTER	1
	64	700A69	9*	METERING SCREW	1
65	530A	178	SPRI	NG	1
66	P-72	3	O-RII	NG, 90 SHORE A	1
67	530A	144	VAL	VALVE PLUG	
68	530A	145	MUF	FLER	1
69	P-699	9	RET.	A INING RING (.INT. Ø, .1.125)	1
70	530B	13B	POV	VER CYLINDER	1
71	P-218	-218		D RING (1.324, 1.046, .139)	2
72	P-209	9	BACK-UP RING (.864, .688, .088)		2
73	P-21	-216		QUAD RING (.880, .674, .103)	
74	530A	60	POW	ER PISTON & ROD ASSEMBLY	
	75	530A62	2	PISTON ROD CAP	1
	76	530A1	1	POWER PISTON	1
	77	560A63	3	PISTON STOP	1
	78	560A6			1
79	P-196	6	O-RING (1.574 1.296, .139)		1
80	P-20	4	RETAINING RING (INT. Ø.687)		2
81	530A	21-3	WASHER		2
82	P-21	3	RING, BACK-UP (.676, .500, .088)		4
83	P-215		RING, QUAD (.693, .487, .103)		
84	530B14		PACKING PLUG		
85	P-21	4	BACK-UP RING (4.745, 4.375, .185)		2
86	P-22	2	QUAD RING,(4.770, 4.350, .210)		1
87	530B	15	PISTON, AIR		1
88	P-301		COTTER PIN Ø3/32 X 3/4		1
89	P-302		SLOTTED NUT		
90	P-537		RETAINING RING (EXT. Ø 1.125)		1
91	530B92		BON	1	
92	P-197		O-RII	NG (4.462, 4.484,.139)	1
93	530C141		POV	VER UNIT BASE	1
94	P-700		FLA	Γ HEAD CAP SCREW (5/16-18 X 1)	6

 $^{{}^{\}star}\mathsf{These}$ parts cannot be purchased separately, but must be ordered as a sub-assembly.

^{**} May be ordered as Assembly No 530A5A; Shim P/N 530A50 may be needed to ensure the desired alignment when tightening.

EXPLODED VIEW OF G85D-S





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: G85D-S

Serial Number:	
Sonai Hannbon.	

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 WS AUATON

Cris Cobzaru,

Master of Science in Mechanical Engineering

Sr. Technical Services / Installation Tooling Engineer

The Technical documentation for the machinery is available from:

Name: Karl-Heinz Beckers

Position: CE Representative and Western Europe Sales Manager

Address: Maternusstrasse 14, D-52538, Gangelt, Germany

Mobile Phone +49 -(0) 171 31 88020