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G83A — lightweight lockbolt riveter, 3,750 lb pull

Cherry's lightweight riveter with hydraulic piston return, for lockbolts and blind bolts, on a bayonet mount.

Specification

Item	Value
Type	Pneumatic-hydraulic riveter with hydraulic piston return
Maker	Cherry Aerospace
Air pressure	90 psi (6.2 bar) min., 110 psi (7.6 bar) max.
Stroke	0.437 in (11.10 mm)
Pulling force	3,750 lb (16.68 kN) at 90 psi, 800 lb (3.56 kN) on return stroke
Cycle time	Approximately one second

Item	Value
Weight	4.95 lb (2.25 kg)
Noise level	78.4 dB(A)
Vibration	Less than 2.5 m/s²
Air consumption	0.16 SCF/cycle (4.53 L/cycle)
Mounting system	Bayonet, common to the G83A and G84 (compatible with Huck 230, 362 models)

Part numbers

Part no.	Size	Item
G83A	Riveter	Riveter only
G83ACMR	Tool kit	G83A CherryMAX tool kit

Cherry's part numbers for this tool, as the catalog lists them.

Pulling heads

Fastener	Type	Part number	Adapter	Diameter
MAXIBOLT, S type	Straight	H83B-5MB	—	-05
MAXIBOLT, U type	Straight	H83B-5MBU	—	-05
MAXIBOLT, S type	Straight	H83B-6MB	—	-06
MAXIBOLT, U type	Straight	H83B-6MBU	—	-06
MAXIBOLT, S type	Straight	H84A-8MB	—	-08
MAXIBOLT, U type	Straight	H84A-8MBU	—	-08
MAXIBOLT	Offset	H856-6MB	744-200	-06
MAXIBOLT, S type	Right angle	H829-5MB	—	-05
MAXIBOLT, U type	Right angle	H829-5MBU	—	-05
MAXIBOLT, S type	Right angle	H829-6MB	—	-06
MAXIBOLT, U type	Right angle	H829-6MBU	—	-06

Fastener	Type	Part number	Adapter	Diameter
MAXIBOLT, S type	Right angle	H829-8MB	—	-08
MAXIBOLT, U type	Right angle	H829-8MBU	—	-08
Lockbolt	Straight	H513, H513S, H513SR	—	-4, -5, -6, -8
Lockbolt	Offset	H563-4B, -5B, -6B	—	-4, -5, -6
Lockbolt	Offset	H562-6B, -8B	744-100	-6, -8
MAXIBOLT PLUS	Straight	H84B-568	—	-5, -6, -8
MAXIBOLT PLUS	Right angle	H829-56MBPS	—	-5, -6
NAS1919/1921	Straight	H1900-456	—	-4, -5, -6
CherryMAX	Straight	H84A-8	—	-8
CherryMAX	Right angle	H829-8	—	-5, -6, -8
CherryMAX 'AB', CherryLOCK 'A'	Straight	H84-8CLA	—	-8

Other pulling heads may be used with the adapters below. Pulling heads are not furnished with the riveter.

Adapters

Adapter	To adapt to mounting system
744-100	G85D-S / G87D
744-200	G744
744-300	G704B / G747 / G746A

All three require removal of the bayonet mount.

G83ACMR tool kit

Part number	Item	Qty
G83A	Medium duty lockbolt riveter	1
H84A-8	Straight pulling head (-8)	1
H701B-456	Straight pulling head (-4, -5 and -6 dia.)	1
H781A-456	Offset pulling head (-4, -5 and -6 dia.)	1
H753A-456	Right angle pulling head (-4, -5 and -6 dia.)	1
744-300	CherryMAX adapter	1
269C3	CherryMAX / CherryLOCK grip selector gage	1
700A77	Hydraulic air bleeder	1
670A20	Stem catcher bag	1
P-1393	Plastic casing	1

Process manuals, reference card and tool documentation are included.

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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Notes

- Pulling heads are not furnished with the riveter and must be ordered separately.
- Based on the G704B power unit, with an improved hydraulic piston return system.

SOURCES · Cherry Aerospace, Fastening Systems for Aerospace Tool Catalog CA-1001, p. 7, 8, 20 · Cherry Aerospace, Tool Manual TM-G83, Rev. E, 04/30/15

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/tools/g83a/

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.