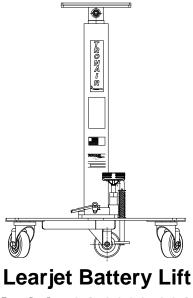


Operation & Service Manual



Model: 04-6000-0910

05/2012 - Rev. 04

Includes Illustrated Parts Lists

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TEXT AFFECTED Modified 2.0 Specifications Modified 2.0 Specifications, 3.0 Assembly Instructions and Parts List



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This product can not be modified without the written approval of Tronair, Inc. Any modifications done without written approval voids all warranties and releases Tronair, Inc., its suppliers, distributors, employees, or financial institutions from any liability from consequences that may occur. Only Tronair OEM replacement parts shall be used.

1.0 GENERAL DESCRIPTION

This Tronair Battery Lift, Model 04-6000-0910, is designed to aid in the installation and removal of batteries in the Learjet aircraft.

2.0 SPECIFICATIONS

- Capacity: 100 lbs. Maximum (Vertical Lift)
- Collapsed Height: 29 7/16 inches
- Extended Height: 48 ¹⁵/₁₆ inches
- Net Weight: 35 lbs

3.0 ASSEMBLY INSTRUCTIONS

Reference Parts List and Illustration during the following:

- 1. Attach pump/cylinder assembly (Item 5) and casters (Items 1, 2, 3 &7) to base weldment (Item 4) using the three ³/₈" bolts, stopnuts and washers (Items 13, 14, 15) supplied. Torque bolts to 75 in-lbs.
- 2. Insert foot pedal assembly through hole in front of pump. Slide two ½" washers (Item 10) and compression spring at (Item 12) over foot pedal assembly (Item 11), one washer at each end of the spring. Compress the spring past the hole in the foot pedal assembly and put cotter pin (Item 8) in the hole. Slide ½" washer (Item 10) over foot pedal shaft and insert the foot pedal into the hole in the pump handle outlet. Slide ½" washer (Item 10) over foot pedal shaft and put cotter pin (Item 8) in hole of pedal assembly.
- 3. Attach top plate assembly to the ram.
- 4. Ensure all bolts, stopnuts, and cotter pins are securely fastened before operating.
- 5. Ensure foot pedal assembly operates freely without binding.

4.0 OPERATING INSTRUCTIONS

CAUTION!



- Operator injury and/or battery damage can result.
- Do not transport batteries on this battery lift.
- This battery lift is designed to only lift or lower batteries at aircraft.

4.1 TO RAISE BATTERY

Reference Parts List Illustration

- 1. Place Battery Lift on hard level surface.
- 2. Close release valve by rotating foot release lever assembly clockwise.
- 3. Pump foot pedal assembly until desired height is reached.
- 4. If binding occurs, lubricate linkage.

4.2 TO LOWER BATTERY

Reference Parts List Illustration

Slowly open release valve by rotating foot release lever assembly counter-clockwise.



CAUTION!

Battery damage and/or operator injury could result if release valve is opened too quickly.

4.3 FILLING THE RESERVOIR

- 1. Remove reservoir plug.
- 2. Open release valve.
- 3. Fill reservoir with hydraulic oil.
- 4. Stand unit on its base and let excess oil run out. Replace reservoir plug.
- 5. Pump operating handle rapidly with release valve open to exhaust any air in system.
- 6. Close release valve and pump operating handle.
- 7. Repeat above instructions if plunger fails to advance.



5.0 PROVISION OF SPARES

5.1 SPARE PARTS

Spare parts may be obtained from the manufacturer:

TRONAIR, Inc.	Telephone:	(419) 866-6301 or 800-426-6301
1740 Eber Road	Fax:	(419) 867-0634
Holland, Ohio 43528-9794 USA	E-mail: Website:	sales@tronair.com www.tronair.com

5.2 PARTS LISTS & ILLUSTRATIONS

Reference the following page for Replacement Parts and Kits available.

6.0 IN-SERVICE SUPPORT

Contact Tronair for technical services and information.

7.0 GUARANTEES/LIMITATION OF LIABILITY

Tronair products are warranted to be free of manufacturing or material defects for a period of one year after shipment to the original customer. This is solely limited to the repair or replacement of defective components. This warranty does not cover the following items:

- a) Parts required for normal maintenance
- b) Parts covered by a component manufacturers warranty
- c) Replacement parts have a 90-day warranty from date of shipment

If you have a problem that may require service, contact Tronair immediately. Do not attempt to repair or disassemble a product without first contacting Tronair, any action may affect warranty coverage. When you contact Tronair be prepared to provide the following information:

- a) Product Model Number
- b) Product Serial Number
- c) Description of the problem

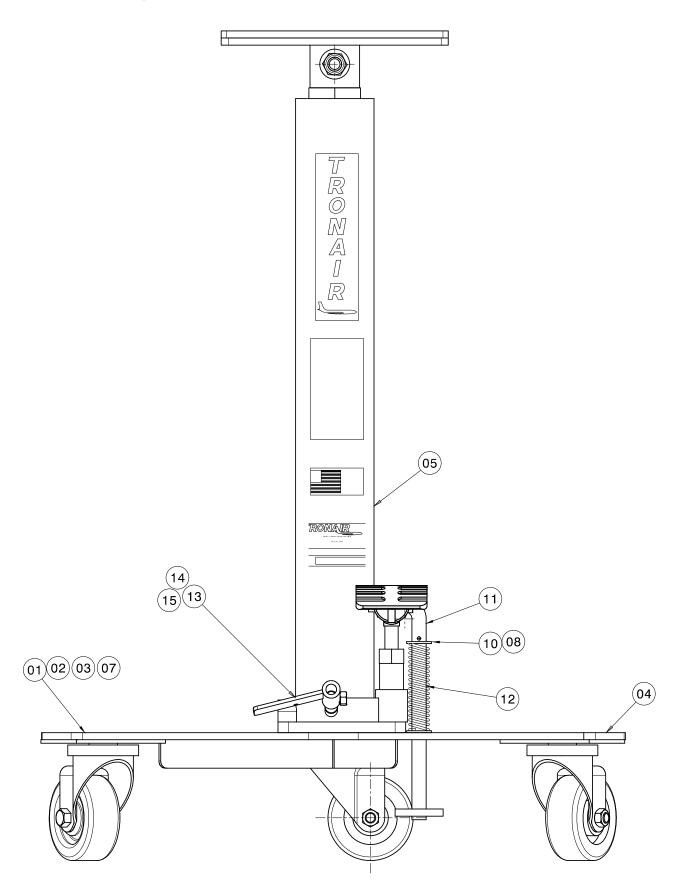
If warranty coverage is approved, either replacement parts will be sent or the product will have to be returned to Tronair for repairs. If the product is to be returned, a Return Material Authorization (RMA) number will be issued for reference purposes on any shipping documents. Failure to obtain a RMA in advance of returning an item will result in a service fee. A decision on the extent of warranty coverage on returned products is reserved pending inspection at Tronair. Any shipments to Tronair must be shipped freight prepaid. Freight costs on shipments to customers will be paid by Tronair on any warranty claims only. Any unauthorized modification of the Tronair products or use of the Tronair products in violation of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied.

The obligations of Tronair expressly stated herein are in lieu of all other warranties or conditions expressed or implied. Any unauthorized modification of the Tronair products or use of the Tronair products in violations of cautions and warnings in any manual (including updates) or safety bulletins published or delivered by Tronair will immediately void any warranty, express or implied and Tronair disclaims any and all liability for injury (WITHOUT LIMITATION and including DEATH), loss or damage arising from or relating to such misuse.



Parts List

When ordering replacement parts/kits, please specify model, serial number and color of your unit.





Parts List

When ordering replacement parts/kits, please specify model, serial number and color of your unit.

Item	Part Number	Description	Qty
1	G-1100-105510	Bolt, Hex Head, Grade 5, 1/4-28 x 1 long	12
2	G-1202-1055	ESN, ¼-28	12
3	G-1255-05	Washer, ¼ AN	12
4	Z-7843-01	Weldment, Base	1
5	Z-7845	Assembly, Hydraulic Jack	1
6	V-1983	Label, Working Load	1
7	U-1000	Caster	3
8	G-1301-01	Pin, Cotter ³ / ₃₂ x 1 long	3
10	G-1255-09	Washer, ½ AN	4
11	Z-7915	Assembly, Spring Stop	1
12	H-3512-01	Spring	1
13	G-1100-107514	Bolt, Hex Head, Grade 5, 3/8 - 24 x 1 1/2 long	3
14	G-1202-1075	ESN, ¾ - 24	3
15	G-1250-1070	Flatwasher, 3% Narrow	3
	K-3030	Kit, Caster Replacement; consists of:	
1	G-1100-105510	Bolt, Hex Head, Grade 5, 1/4-28 x 1 long	4
2	G-1202-1055	ESN, ¼-28	4
3	G-1255-05	Washer, ¼ AN	4
7	U-1000	Caster	1