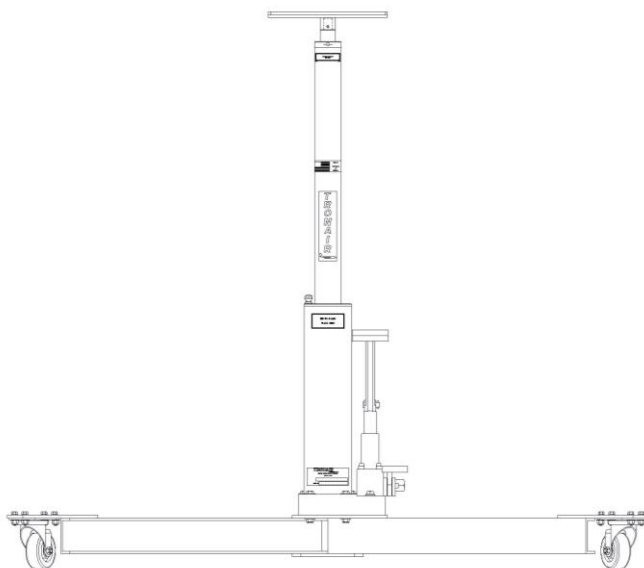




# OPERATION & SERVICE MANUAL



**Models: 04-6031-0100  
Falcon 900 Battery Lift**

07/2014 – Rev. 03

REVISION

02

03

DATE

06/2005

07/2014

TEXT AFFECTED

Major Revision

Modified 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 04-6031-0100, is designed to aid in the installation and removal of batteries in the Falcon 900 aircraft.

## **2.0 SPECIFICATIONS**

- Capacity: 300 lbs (136 kg) Maximum (Vertical Lift)
- Height, Collapsed: 46-3/8 in (117.5 cm)
- Height, Extended: 82-3/8 in (209 cm)
- Weight, Net: 90 lbs (40.8 kg)

## **3.0 ASSEMBLY INSTRUCTIONS**

(Reference Parts List Illustration)

1. Attach pump/cylinder assembly (Item 5) to base weldment (Item 1) using the four (4) five-sixteenths inch (5/16") bolts, stopnuts and washers (Items 6, 7, 8) supplied. Torque bolts to 15 ft-lbs.
2. Attach table assembly to the ram using set screw (Item 4).
3. Assure all bolts and stopnuts are securely fastened before operating.

## **4.0 OPERATING INSTRUCTIONS**

(Reference Parts List Illustration)



### **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**

1. Place battery lift on hard level surface.
2. Open vent screw
3. Pump foot pedal on pump to raise lift to desired height.

### **4.2 TO LOWER BATTERY**

1. Depress release foot pedal on pump to lower lift.
2. Close vent screw



### **CAUTION!**

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

### **4.3 FILLING THE RESERVOIR**

1. Remove reservoir vent screw.
2. Open release valve.
3. Fill reservoir with hydraulic oil MIL-H-5606 approximately one inch (1") from top.
4. Pump foot pedal rapidly with release foot pedal depressed to exhaust any air in system.
5. Repeat above instructions if plunger fails to advance.

## 5.0 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:

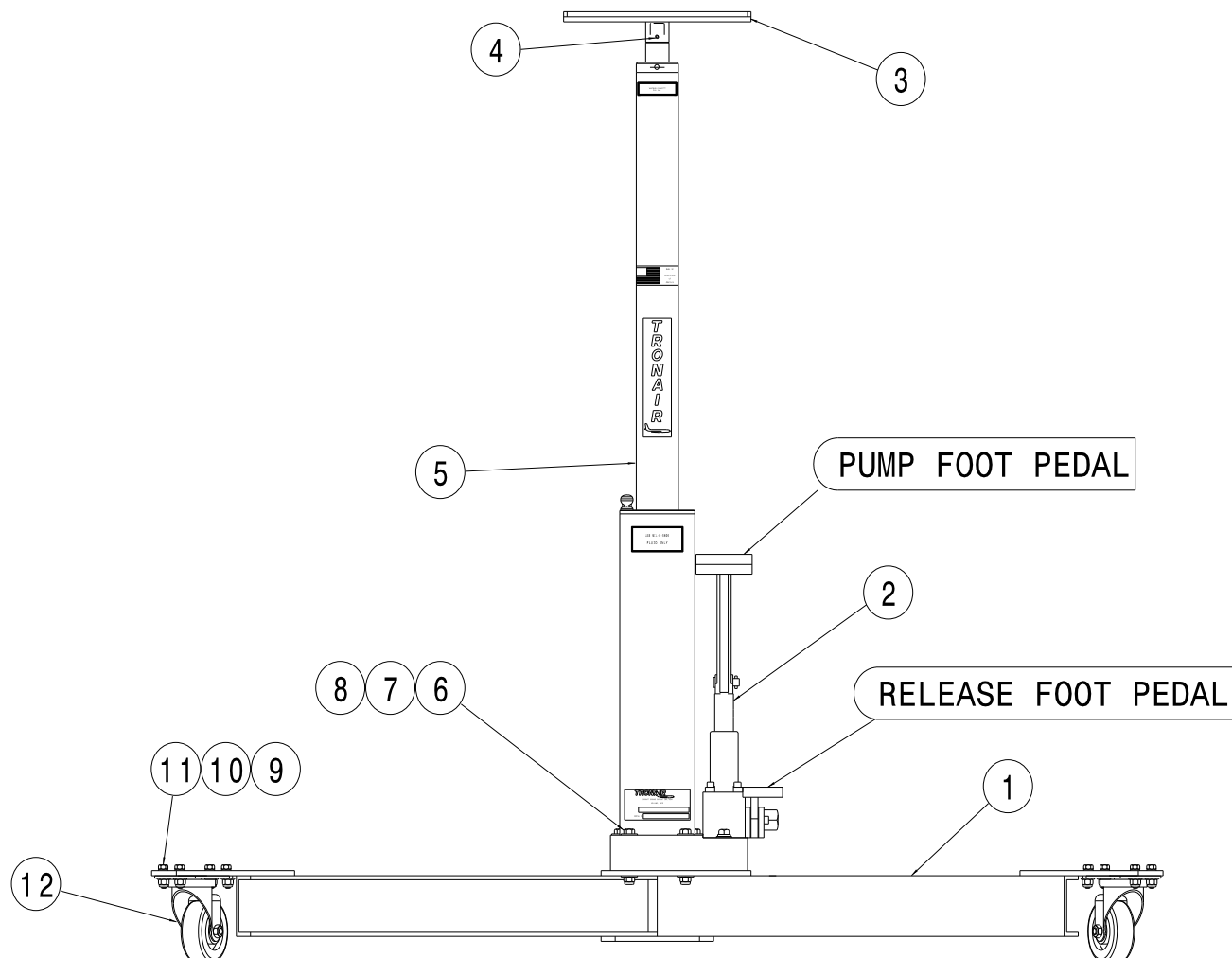
- a) Parts required for normal maintenance
- b) Parts covered by a component manufacturers warranty
- c) Replacement parts have a 90-day warranty from date of shipment

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**


| Item | Part Number   | Description                                  | Qty  |
|------|---------------|----------------------------------------------|------|
| 1    | Z-4690-01     | Weldment, Base                               | 1    |
| 2    | HC-2315       | Pump, Foot                                   | 1    |
| 3    | Z-4967        | Assembly, Top Plate                          | 1    |
| 4    | G-1163-01     | Screw, 1/4-28, Hex Socket Cup Point Set      | Ref. |
| 5    | Z-4688        | Assembly, Hydraulic Jack                     | 1    |
| 6    | G-1100-106024 | Bolt, Hex Head, Grade 5, 5/16-18 x 2 " long  | 4    |
| 7    | G-1250-1060N  | Flatwasher, 5/16 Narrow                      | 8    |
| 8    | G-1202-1060   | Stopnut, 5/16-18 Elastic                     | 4    |
| 9    | G-1100-105510 | Bolt, Hex Head, Grade 5, 1/4-28 x 1" long    | 12   |
| 10   | G-1255-05     | Flatwasher, 1/4 AN                           | 12   |
| 11   | G-1202-1055   | Stopnut, 1/4-28 Elastic                      | 12   |
| 12   | U-1115        | Caster, Swivel w/Wheel Lock                  | 3    |
|      | <b>K-3030</b> | <b>Kit, Caster Replacement; consists of:</b> |      |
| 11   | G-1100-105510 | Bolt, Hex Head, Grade 5, 1/4-28 x 1" long    | 4    |
| 12   | G-1255-05     | Washer, 1/4 AN                               | 4    |
| 13   | G-1202-1055   | Stopnut, 1/4-28 Elastic                      | 4    |
| 15   | U-1000        | Caster, Swivel w/Wheel Lock                  | 1    |