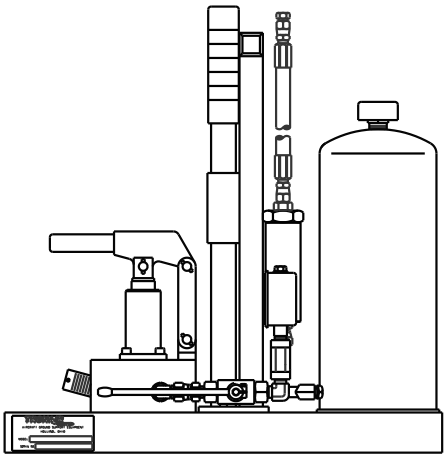
Operation & Service Manual



Models: 06-5071-0600
Component Pressure Test Unit

11/2008 - Rev. 01

Includes Illustrated Parts List

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Models: 06-5071-0600
(06-4005-0511, 06-4005-0800, 06-4005-3611)
Component Pressure Test Unit

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REVISION	DATE	TEXT AFFECTED
01	11/2008	Original Release

Models: 06-5071-0600
(06-4005-0511, 06-4005-0800, 06-4005-3611)
Component Pressure Test Unit

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

The Tronair 06-5071-0600 Component Pressure Test Unit is a compact unit designed to provide a source of clean, pressurized fluid for filling reservoirs, bleeding brakes and other maintenance functions.

2.0 SPECIFICATIONS

- Tank Capacity: .90 gal (3.4 lt)
- Filtration: 2 Micron
- System Relief Pressure: 3,250 psig (224 bar)
- Weight: 25 lbs (11.3 kg)
- Fluid: Phosphate Ester

3.0 FEATURES

- 15 Foot Hose (4.6 m)
- Certified 5,000 psi (344.7 bar) Pressure Gauge
- Pressure Isolation Valve

4.0 PREPARATION FOR USE

The Test Unit is shipped fully assembled, and only the following steps are required to make the unit operational:

1. Install appropriate fluid label.
2. Service reservoir; fill reservoir with appropriate clean fluid. *Reference 2.0 Specifications.*

Remove Air from Test Unit System by Completing the Following Steps:

1. Close manual pump release screw (lower right corner of pump base block).
2. Open isolation ball valve (located on side of unit).
3. Flow fluid by actuating manual pump.

5.0 OPERATION

5.1 TO USE YOUR TEST UNIT

1. Securely attach hose to the aircraft.
2. Close pump release screw.
3. Transfer hydraulic fluid by actuating the manual hydraulic pump.

5.2 TO MAINTAIN SYSTEM PRESSURE

1. Follow procedures in section 5.1
2. Close isolation ball valve at desire pressure.
3. Read system pressure from pressure gauge (allow time for pressure drop, if required).
4. Open isolation ball valve to relieve pressure.

5.3 WHEN SERVICE HAS BEEN COMPLETED

1. Open pump release screw to relieve hydraulic pressure.
2. Disconnect hose from aircraft.
3. Install hose end dust plug.

5.4 COMPONENT TESTING

A shut-off valve has been provided to assure no back flow of fluid and therefore is to be closed after the required pressure has built up in the system.

Pressure is relieved by opening this shut-off valve and pump release screw.

6.0 MAINTENANCE

6.1 REMOVING AND SERVICING PUMP

NOTE: If pump is found faulty, call the factory for replacement or replace seals as follows:

1. Review Appendix II: Hand Pump Parts List during the following procedure.
2. Clamp suction (push on) hose and remove hose from pump.
3. Uncouple fitting of hydraulic hose from pump.
4. Remove pump from unit.
5. Remove cotter pin (Item 18) from clevis pin.
6. Remove four (4) socket head cap screws.
7. Remove flanges.
8. Remove tube assembly (Item 16).
9. Replace O-rings and backup ring. (See Appendix II: for available kits.)
10. Re-assemble in reverse order.

6.2 FILTER MAINTENANCE

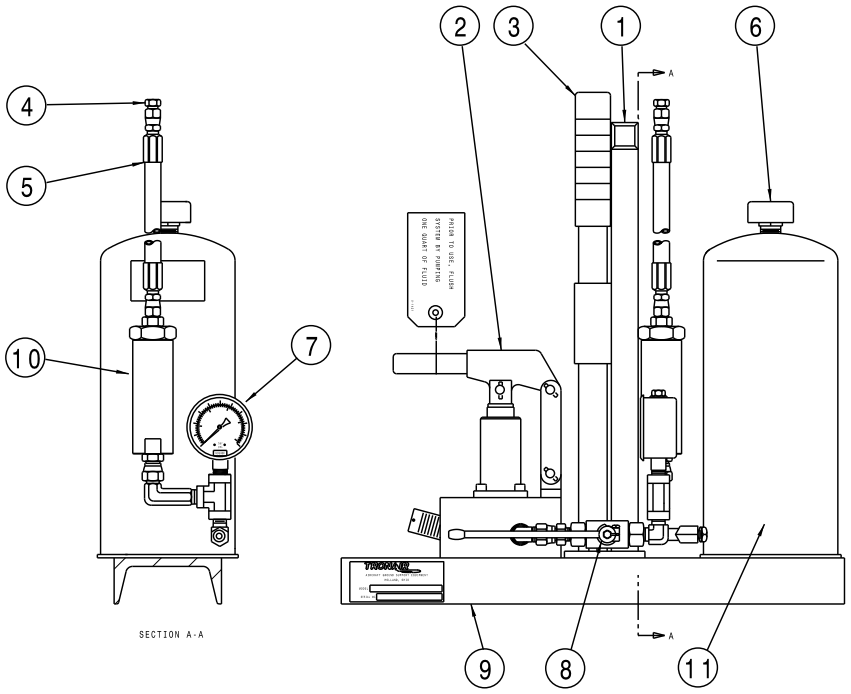
- The filter is of a non-bypass design with a replaceable element. As the filter element becomes clogged, higher handle force may be required for a given flow rate. High handle force while in a re-circulating or other “free flow” condition indicates the need for filter element replacement.
- DO NOT force the pump handle when a clogged filter element is suspected.
- It is best to set up a filter maintenance schedule based on usage and actual fluid samples. For units with low usage, the filter element should be changed at least once annually.

7.0 TROUBLE SHOOTING

PROBABLE CAUSE	CORRECTIVE ACTION
High pressure leaks (at joint, plugs or tubing)	Re-tighten or repair
Leaky discharge check valve	Pump rapidly to dislodge; Or repair pump
Leaky release valve	Tighten release valve
Leaky pump O-ring packing	Repair pump
Lack of oil	Refill reservoir check system for leaks
Sticking inlet check valve	Pump rapidly to dislodge; Or repair pump
Closed air vent	Open air vent

Parts List

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



ITEM	PART NUMBER	DESCRIPTION	QTY
1	Z-1291-01	Assembly, Handle	1
2	HC-2450	Pump, Hydraulic Hand	1
3	H-1009-02	Handle, Hand Pump	1
4	N-2014-03-S	Plug, #4 JIC	1
5	TF-1041-05*180	Assembly, Hose #4	1
6	H-1045	Vent, Breather	1
♦ 7	HC-1042	Gauge, Pressure, 5,000 psi (344.7 bar)	1
8	HC-1834-02	Valve, Ball, ¼" NPT 7,250 psi (500 bar)	1
9	D-016-01	Plate, Base	1
10	HC-2140	Filter, Inline	1
	K-3658	Element Kit	
11	HC-2328	Assembly, Reservoir	1

♦ ***Certify Pressure Gauge annually***

APPENDIX I

Instrument Certification Notice

Instrument Certification Notice

The gauge Certificates of Calibration supplied for the gauge(s) on this unit contain the calibration data for the actual instrument calibrated, along with the calibration date of the **STANDARD** used to perform the calibration check.

The due date for re-calibration of the instrument should be based upon the date the instrument was placed in service in your facility. Re-calibration should be done on a periodic basis as dictated by the end user's quality system or other overriding requirements.

Note that Tronair, Inc. does not supply certificates of calibration on flow meters or pyrometers unless requested at the time of placed order. These instruments are considered reference indicators only and are not critical to the test(s) being performed on the aircraft.

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