

SIMPLEX. TEMPLETON, KENLY & CO.

2525 Gardner Road • Broadview, Illinois 60153 • 312-865-1500

HAND PUMP

REPAIR PARTS SHEET

OPERATING INSTRUCTIONS

P70

OPERATING INSTRUCTIONS

Introduction

Dirt - This will quickly ruin any hydraulic system. Simplex-Pine Pumps are equipped with filter screen in the reservoir. The user, must quard against dirt entering the system down-stream of this filter. Before hooking up a system, insure that couplings are clean and free of foreign matter. Dirt, sand, etc. can cause difficult assembly and premature wear to seals and steel components of your hydraulic equipment. After each use of the system, clean all couplings and assemble all dust caps.

Air Bleeding - Air in a hydraulic system can be hazardous because of the high pressures and the fact that air is compressible. Before loading any cylinder, air must be bled from the system.

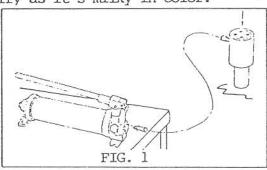
With single-acting and spring return cylinders, fully extend piston. Invert cylinder and allow it to retract (in the case of single-acting cylinders a load must be applied). Pump must be higher than cylinder). See Fig. 1.

With double-acting cylinders, the cylinder may be purged by fully extending and retracting piston several times. (It is not necessary to invert cylinder).

Air in the system can cause sluggish or hesitant action of piston when extending or retracting. When air has been purged, cylinder action will be smooth and uniform.

Air can enter your system in many ways, but the most common is by inadequate useable reservoir capacity. (Oil level drops below inlet and pump sucks air). A power pump allowed to

run under these conditions may be damaged or can homogenize the oil. Once air and oil have been mixed at high pressure, pump must be drained, cleaned and filled with clean, air free oil. Homogenized oil is easy to identify as it's milky in color.



2. Assembly

Remove plastic pipe plug from port "A". See Fig. 4.

b) Assemble hose or quick-disconnect at port "A". (Use pipe sealant) (Teflon tape is NOT recommended).

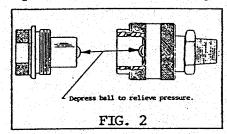
Assemble pump to cylinder.

All Simplex-Pine cylinders and most pumps are equipped with quick-disconnect couplings. These couplings make assembly of your system simple and quick.

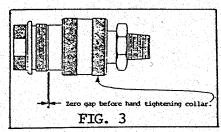
These couplings must be assembled by hand. If wrenches or pliers seem to be necessary for assembly, you are doing something wrong. The proper method of assembly is as follows:

All components: cylinders, pump and hoses, may have built up pressure since their last use. (This holds true for new equipment, as all components are factory tested and

therefore will contain oil. This pressure may be sufficient to prevent proper hand coupling. A simple test is to depress the steel ball in the end of the coupling with your finger or a soft tool. (Wood, aluminum, etc.). Any two couplings to be assembled must be tested in this manner. If ball can be easily depressed, couplings may be assembled. See Fig. 2 and 3.



If ball cannot be depressed by hand, it means internal pressure is excessive for proper assembly. The recommended method to relieve the pressure is with a loose mating coupling open to atmosphere.



Before disassembling a system, all pressure must be relieved before attempting to disconnect couplings.

If after many uses, couplings become difficult to assemble by hand, they should be replaced. Extra couplings should always be at hand.

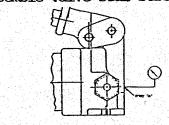
Your system should never be disconnected while under pressure. If for some reason you wish to retain a load on your system for long periods, a cylinder mounted check valve should be used. (These can be found in the Templeton, Kenly & Co. Hydraulics Catalog or call the factory for assistance).

3. Operation

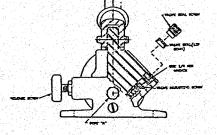
Ensure that breather is clear. Operate pump handle several times. Close release screw (Item 14) (Clock-wise) hand tight.

To adjust relief valve (See Fig. 4)

- 1. Remove valve seal screw.
- 2. Remove valve seal (Note: Be careful not to puncture this seal).
- 3. Insert 1/8 hex wrench into valve adjusting screw.
- 4. To lower pressure setting, turn valve adjusting screw counter-clockwise. To raise pressure setting, turn valve adjusting screw clockwise.
- 5. Close release screw (turn clock-wise).
- 6. Operate pump (Stroke pump several times after pressure builds to maximum setting).
- If setting is not correct, open release screw (turn counter-clockwise). Turn hex wrench as required.
- Close release screw. Repeat steps
 thru 9 until proper setting is reached.
- 9. Assemble valve seal (lip side down). Push seal all the way down to adjusting screw.
- 10. Assemble valve seal screw.







4. Gage Installation

Pressure gage may be assembled to pump by assembling a gage adapter to port "A".

WARRANTY



Templeton, Kenly & Co. warrants to the purchaser of its products that if the product or any part theregisin the judgment of Templeton, Kenly & Co. is proven to be detective in material or workmanship within one year from the date of original purchase (two years on Heavy Duty Hydraulics and five years on Super Jacks), such defects will be repaired or replaced (at the company's option) free of charge for parts and labor.

This warranty does not apply to any product which has been damaged by accident or which has been mis, abused, altered, or repaired by anyone other than recognized Templeton, Kenly authorized Service Centers.

This warranty is in lieu of all other warranties expressed or implied, and no other person is authorized to assume for Templeton, Kenly & Co. any other liability in connection with the sale of this product.

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PARTS LIST

	TANTO EIGI		
ITEM NO.	DESCRIPTION	QIY.	(34003) CONTROL NUMBER
1	Housing	,	02100
2	Reservoir Tube	1	92199 92236
3	Reservoir Support	1	92238
4	Pump Rest	i	92237
5	Split Lock Washer	l i	93946
6	Hex. Head Cap Screw	li	93557
7	Operating Lever	ĺi	92553
8	Handle Socket	ĺi	92224
9	Pump Piston Pin	2	92539
10	Pump Piston Pin Clip	4	92540
ii	5/16" Ball	1	91701
12	Release Valve Packing	ī	*
13	Release Screw Gland	ī	92206
14	Release Screw	ī	92203
15	Pump Piston Clip	ī	92535
16	Pump Piston Assembly	ī	92530
17	Pump Piston Packing Nut	ī	92226
18	Pump Piston Packing	ī	*
19	Breather Plug	ī	90534
20	3/16" Ball	ī	90548
21	Safety Valve Spring Plunger	ī	92215
22	Safety Valve Spring	l	92216
23	Safety Valve Screw	1	92217
24	Valve Seal	1	* :
25	Valve Screw	1	92543
26	1/4" Ball	1	92549
27	Pump Valve Spring Small	1	92548
28	3/8" Ball	1	92550
29	Pump Valve Spring Large	1	92551
30	Valve Seal	1	***
31	Valve Screw	1	92543
	Packing Kit		92239

^{*}Included In Packing Kit, Not Sold Separately

ENGINEERING DATA

- 1. Reservoir Capacity 70 Cubic Inches
- 2. Piston Stroke 1"
- 3. Volume Delivery 0.15 Cubic Inches
- 4. Pressure Rating 10,000 P.S.I. Maximum

