



**SIMPLEX
PINE**

TEMPLETON, KENLY & CO.

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

**HAND PUMP
REPAIR PARTS SHEET
OPERATING INSTRUCTIONS**

RP6BR

OPERATING INSTRUCTIONS

1. Introduction

Dirt - This will quickly ruin any hydraulic system. Simplex-Pine Pumps are equipped with filter screen in the reservoir. The user, must guard 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.

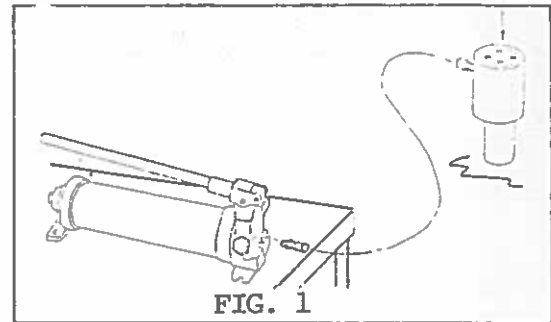
With single-acting and spring return cylinders, fully extend piston. Invert cylinder and allow it to retract (in the case of single-acting cylinders a load must be applied). Pump must be higher than cylinder). See Fig. 1.

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.



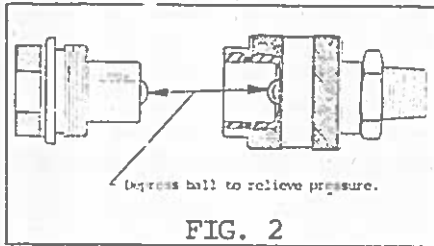
2. Assembly

- Remove plastic pipe plug from port "A". See Fig. 4.
- 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 pumps are equipped with quick-disconnect couplings. These couplings make assembly of your system simple and quick.

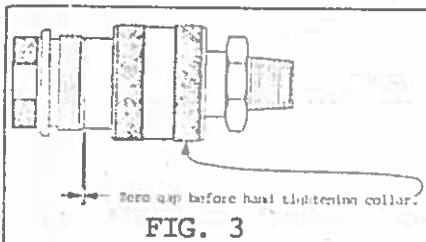
These couplings must be assembled by hand. If wrenches or pliers seem to be necessary for assembly, you are doing something wrong. The proper method of assembly is as follows:

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 16) (Clockwise) 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 clockwise).
6. Operate pump (Stroke pump several times after pressure builds to maximum setting).
7. If setting is not correct, open release screw (turn counter-clockwise). Turn hex wrench as required.
8. Close release screw. Repeat steps 7 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.

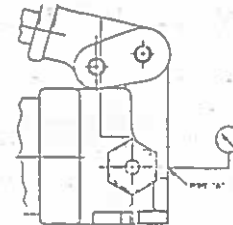
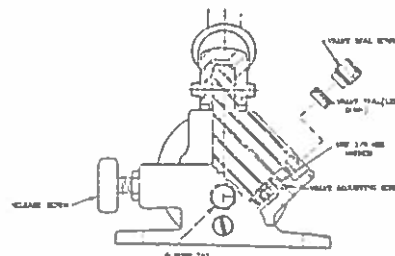
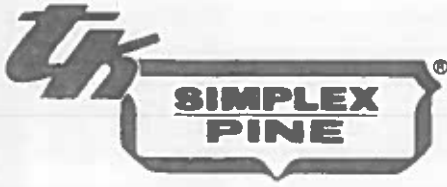


FIG. 4



4. Gage Installation

Pressure gage may be assembled to pump by removing pipe plug (Item 22) or 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 thereof in the judgment of Templeton, Kenly & Co. is proven to be defective 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 misused, 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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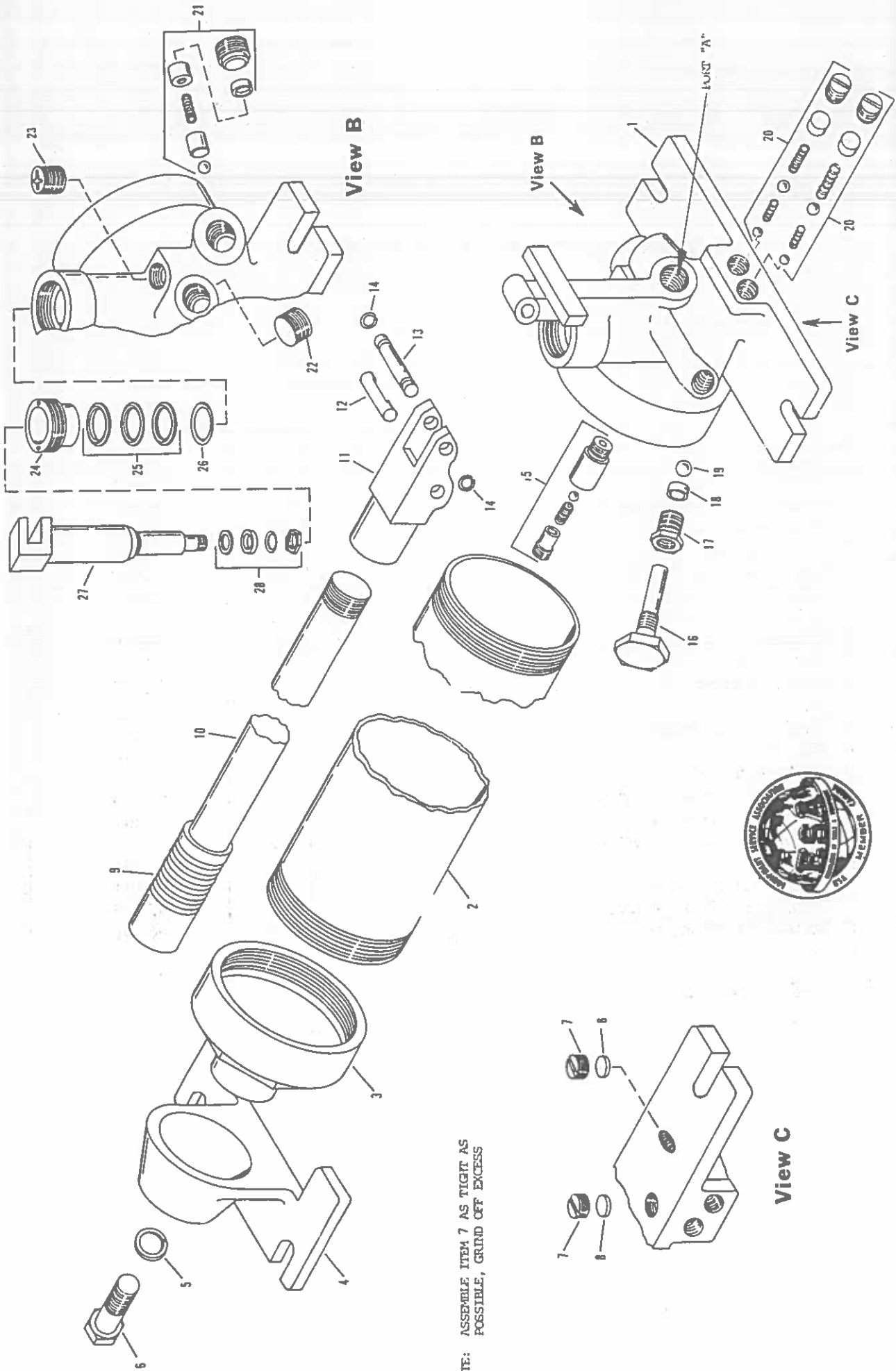
PARTS LIST

ITEM NO.	DESCRIPTION	QTY.	RP6BR (34004) CONTROL NUMBER
1	Housing	1	94385
2	Reservoir Tube	1	92286
3	Reservoir Tube Support	1	92289
4	Pump Rest	1	92288
5	Lock Washer	1	93947
6	Hex Head Cap Screw	1	94333
7	Oil Channel Plug	2	92508
8	Oil Channel Seal	2	*
9	Handle Grip	1	95039
10	Lever Bar	1	94407
11	Lever Socket	1	94367
12	Pump Piston Pin	1	94408
13	Handle Socket Pin	1	92268
14	Pin Clip	2	92540
15	High Speed Valve	1	94449
16	Release Screw Assembly	1	92203
17	Release Screw Gland	1	92206
18	Release Valve Packing	1	*
19	5/16 Ball	1	91701
20	Ball Valve Assembly	2	94451
21	Safety By-Pass Valve Ass'y.	1	92849
22	Socket Head Pipe Plug	1	96891
23	Breather Plug	1	90534
24	Pump Gland	1	92265
25	Pump Gland Packing	1	*
26	Male Adaptor	1	92267
27	Pump Piston	1	92269
28	Pump Packing Complete	1	*
	Packing Kit	1	94424

*Included In Packing Kit

ENGINEERING DATA

1. Reservoir Capacity - 126 Cubic Inches
2. Piston Stroke 1"
3. Volume Delivery 13/16" Piston .518 Cubic Inches
4. Volume Delivery 1/2" Piston .196 Cubic Inches
5. Pressure Rating 10,000 P.S.I. Maximum



NOTE: ASSEMBLE ITEM 7 AS TIGHT AS POSSIBLE, GRIND OFF EXCESS

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