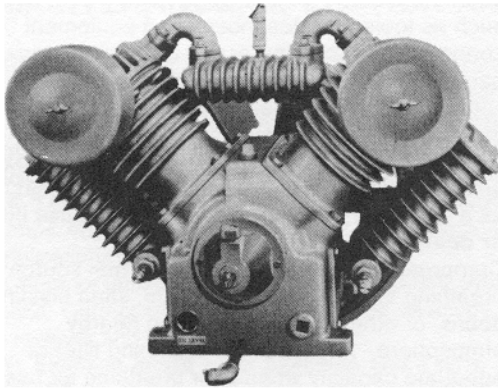
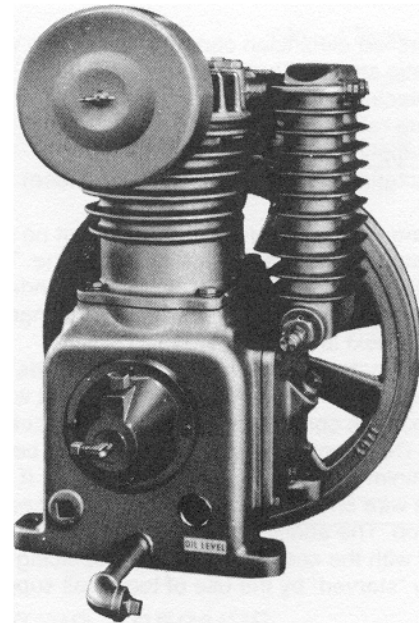


MODEL 703 705 707 PUMPS

ASSEMBLY OPERATING INSTALLATION INSTRUCTIONS PARTS LIST



TYPE 707



TYPE 703 & 705

**TWO STAGE
TWO CYLINDER — FOUR CYLINDER**

SAYLOR BEALL MANUFACTURING COMPANY
P.O. Box 40, 400 KIBBEE STREET, ST. JOHNS, MICHIGAN 48879

Manufacturers of Air Compressors since 1915



800-248-9001

989-224-2371

989-224-8788 (FAX)

INSTALLATION AND OPERATING INSTRUCTIONS

Read all instructions carefully before starting compressor

UNPACKING INSTRUCTIONS

The two-stage compressor was inspected at the factory and packaged to protect against shipping damage. When you unpack your unit, inspect for damage or missing parts. If there is any damage or missing parts, the transportation company's agent should make a notation to the effect on the Bill of Lading. Claims should be settled directly with the transportation company.

PIPING

If a pipe line is necessary, use the same size as the tank valve since too small piping restricts the flow of air. If over 100 feet long, use the next larger size.

Bury underground lines below the frost line and avoid pockets where condensation can gather and freeze. Make certain all pipe joints are free from leaks. Apply pressure before underground lines are covered.

WIRING

Have a certified electrician connect the service wires to the magnetic starter. Check following:

1. The electric box is large enough. Service adequate ampere rating.
2. The supply line has the same electrical characteristics (voltage, cycles and phase) as the motor.
3. The line wire is the proper size and that no other equipment is operated from the same line. The following chart gives minimum recommended wire sizes for compressor installations. For longer lines use the next larger size wiring.

Various national and local codes and standards have been set up covering electrical apparatus and wiring. These should be consulted and local ordinances observed. Our recommended wire sizes may be larger than the minimum set up by local ordinances. If so, the larger size wire should be used to prevent excessive line voltage drop. The additional wire cost is very small compared with the cost of repairing or replacing a motor electrically "starved" by the use of too small supply wires.

BELT GUARD

OSHA requires installation of a totally enclosed belt guard covering the flywheel, belts and motor pulley.

WARNINGS

1. Compressed air systems are complex and can be dangerous. **Use an experienced compressed air systems person** when connecting this air compressor to any system.
2. Electric motor driven compressors use electricity. **Use only a certified electrician to connect to the power source.** To avoid risk of electrocution, do not touch or come in contact with any part of the compressor or power lines while it is connected to a power source. Prior to performance of any service or maintenance, disconnect and lock out any source of electricity.

(WARNINGS CONTINUED)

3. **Electricity can cause a fire or explosion when directly exposed to flammable chemicals, liquids or gases.** Do not locate the compressor near any dangerous material.
4. **Air pressure can cause an explosion.** Do not fill compressed air into any container beyond its rated air capacity. Do not exceed the pressure rating of any container. Containers may include cylinders, tires, air tools, air tanks, piping and other items that use compressed air in their normal operation. These items may have a pressure capacity that is lower than the pressure output of this air compressor. Check the manufacturer of any container for its pressure rating prior to inflation.
5. **Compressed air can cause injury to the eyes, ears or body parts.** Compressed air is a powerful source of energy that escapes rapidly from devices such as tools, nozzles, hoses and equipment that are connected to the compressed air. Do not allow any part of your body to come in contact directly near compressed air or where compressed air is escaping the system, tools or equipment.
6. **Compressed air may contain carbon monoxide and other impurities.** Do not use compressed air as a source of breathing air, or it may cause illness or death.
7. Compressed air can disturb the normal source of breathing air by mixing dust, paint, sand blasting debris, or other impurities into the nearby atmosphere. Always use a breathing filter of adequate capacity when your breathing air has been altered.
8. **The air compressor has moving parts** that are protected by an enclosed belt guard at the time of manufacture. Do not remove the belt guard, except when performing maintenance. Electric power should be disconnected and locked out as noted in item 2 prior to removal of the guard. To avoid injury, do not touch or come in contact with the air compressor while the power is connected. Keep all loose clothing and other articles away from the compressor while power is connected. **The unit may start unexpectedly** at any time power is connected.
9. Compressed air, the air compressor, and the compressed air system will be hot while operating. Do not touch any component while in operation to avoid risk of burns.
10. **Do not modify or repair an air tank.** Welding, drilling or other modifications may weaken the tank resulting in risk of an explosion. Always replace cracked or leaking air tanks.
11. **Never install a shutoff valve between the compressor pump and air tank.** This is extremely important for base mounted configurations, but also may apply if a tank-mounted configuration is modified. Personal injury or equipment damage may occur.
12. This air compressor is designed to compress air only. **Do not compress any gas other than air,** as an unknown result could occur, included but not limited to damage to the equipment or explosion.

MODEL 703-705-707 PUMPS

TWO STAGE

INSTALLATION AND STARTING

INSPECTION: Check for possible damage in transit. All basic pumps are shipped with flywheel unmounted! Do not force flywheel on crankshaft. Use wedge in "slot" provided for easy assembly. Belt alignment and tensions must be checked carefully!

MOUNTING: Install in a clean, dry, well ventilated location away from any source of heat such as a boiler or radiator. If a unit is to be fastened to a foundation, all four feet must be firmly supported and shimmed to remove all stress from unit. Pump flywheel should be mounted towards wall with minimum clearance of 18" to allow for circulation of air and additional clearance if required for servicing.

LUBRICATION: Fill crankcase to level mark on oil gauge with an industrial compressor oil grade ISO 150 or ASTM 700.

CAUTION: Turn power off before servicing.

MAINTENANCE, OPERATION AND CARE

PRESSURE AND SPEED: Never operate pump at pressures or speeds in excess of those recommended by factory. Every compressor assembly must have a safety valve installed and should be set at either the maximum tank working pressure or 25 P.S.I. over the actual pressure of the pump whichever is less.

OPERATING GUIDELINES: Maximum Operating Speed, 703 @ 2 HP, 510 RPM; 705 @ 5 HP, 845 RPM; 707 @ 10 HP, 845 RPM. Minimum operating speed, all pumps, 400 RPM. Intermittent Operation, maximum 70%. Consult dealer for applications outside these guidelines.

***DAILY:** Check for unusual noise, failure to compress, overheating, oil leaks, and vibration. Correct before serious damage develops. Drain all condensate from receiver and traps.

***WEEKLY:** Examine Intake Filter elements and if dirty, remove and clean or replace. Check oil level and add if necessary. Do not fill over level mark on sight glass! Keep compressor clean for efficient operation and appearance.

***MONTHLY:** Check and tighten all bolts and nuts as required (refer to torque chart). Check air connections for air leaks – tighten as required. Check belt tension. NOTE: This is a standard maintenance procedure which "warranty" does not cover.

***QUARTERLY:** Inspect valves, clean if necessary. NOTE: This is a standard maintenance procedure which "warranty" does not cover.

Ambient Temp.	Viscosity at 100° SSU	ISO Viscosity CS+	SAE No.
0° - 40°	250-350	46-68	20
40° - 80°	450-550	100	30
80° - 120°	650-750	150	40
Under 0°	Consult		
Over 120°	Factory		

CHANGE OIL REGULARLY

Minimum – once every three months.

703 = 4 Pints

705 = 4 Pints

707 = 4 Pints

RECOMMENDED TORQUE READINGS

Foot-Pounds	
7/16 Head bolts	50-55
Valve retainer	80-90
5/16 Rod bolts	30
3/8 Crankcase bolts	30-40
5/16 Side cover bolts	30-40
5/16 Front and rear cover bolts	30-40
5/16 Manifold bolts	30-40
5/8 Flywheel bolts	65-75
5/16 Intercooler bolts	30-40

MAINTENANCE – TROUBLE SHOOTING – REPAIRS

SLOW PUMPING OR INSUFFICIENT PRESSURE

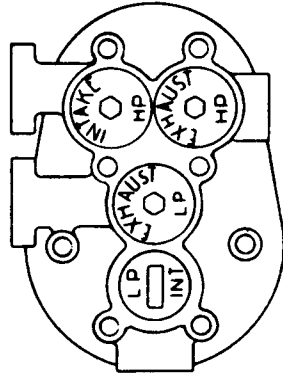
1. Clogged filter element – clean or replace.
2. Leaks in air lines – retighten or replace.
3. Insufficient air capacity – add compressor capacity – consult dealer.
4. Head valves – clean or replace (see figure 5).
5. Slipping belts – adjust or replace.

EXCESSIVE OIL CONSUMPTION

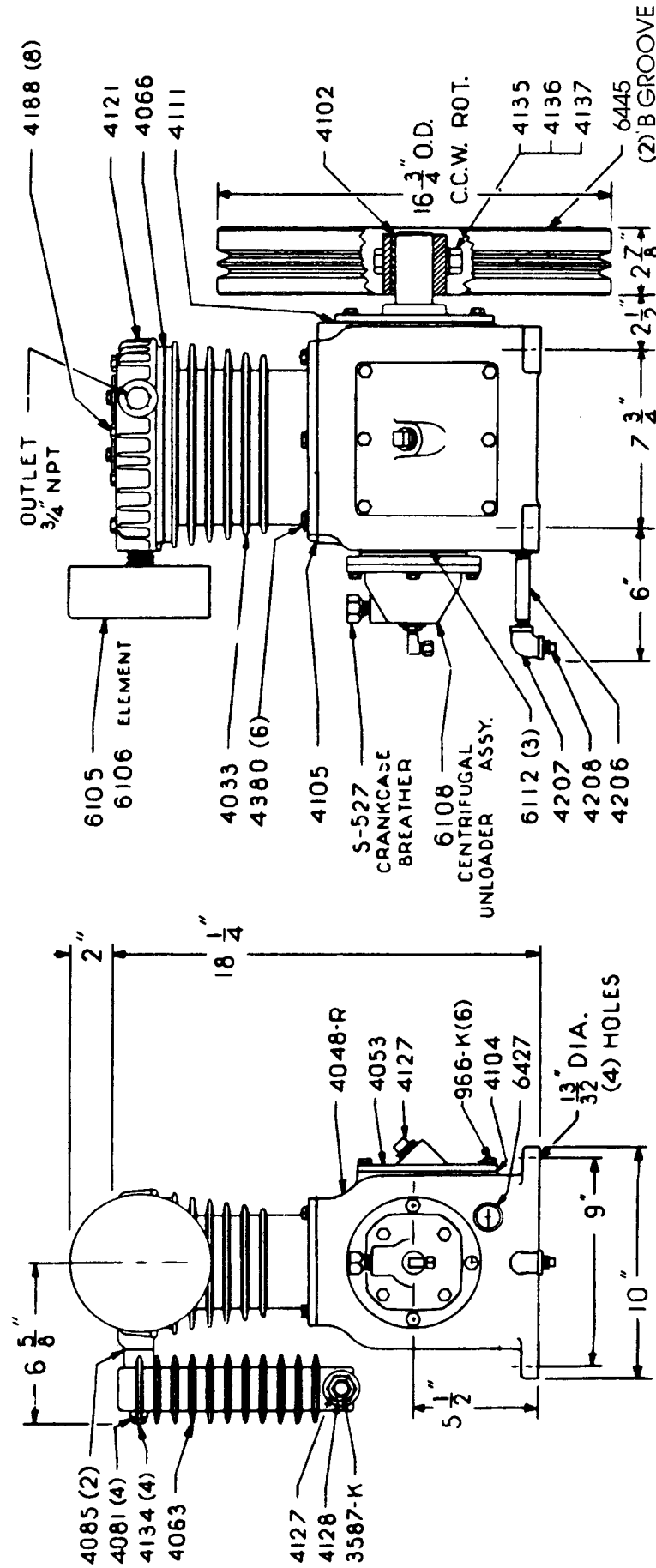
1. Too much oil – drain out excess to level mark on sight glass.
2. Worn rings – replace rings
3. Clogged air intake filters – clean or replace.
4. Improper oil – consult oil chart.
5. Oil leaks – check and tighten all bolts and nuts. Replace gaskets if necessary. See "monthly" under "operation and care."
6. Duty cycle over 70%.

OVERHEATING

1. Pump running backwards – reverse rotation, must be CCW facing flywheel.
2. Inadequate ventilation – pipe intakes to outside and install filters to protect against weather and foreign objects.
3. High ambient – same as #2.
4. Restricted air intakes – clean or replace.
5. Loose or restricted valves – retighten, clean or replace.
6. Incorrect installation – allow 18" minimum between wall and flywheel.
7. Insufficient air capacity or excessive duty cycle.

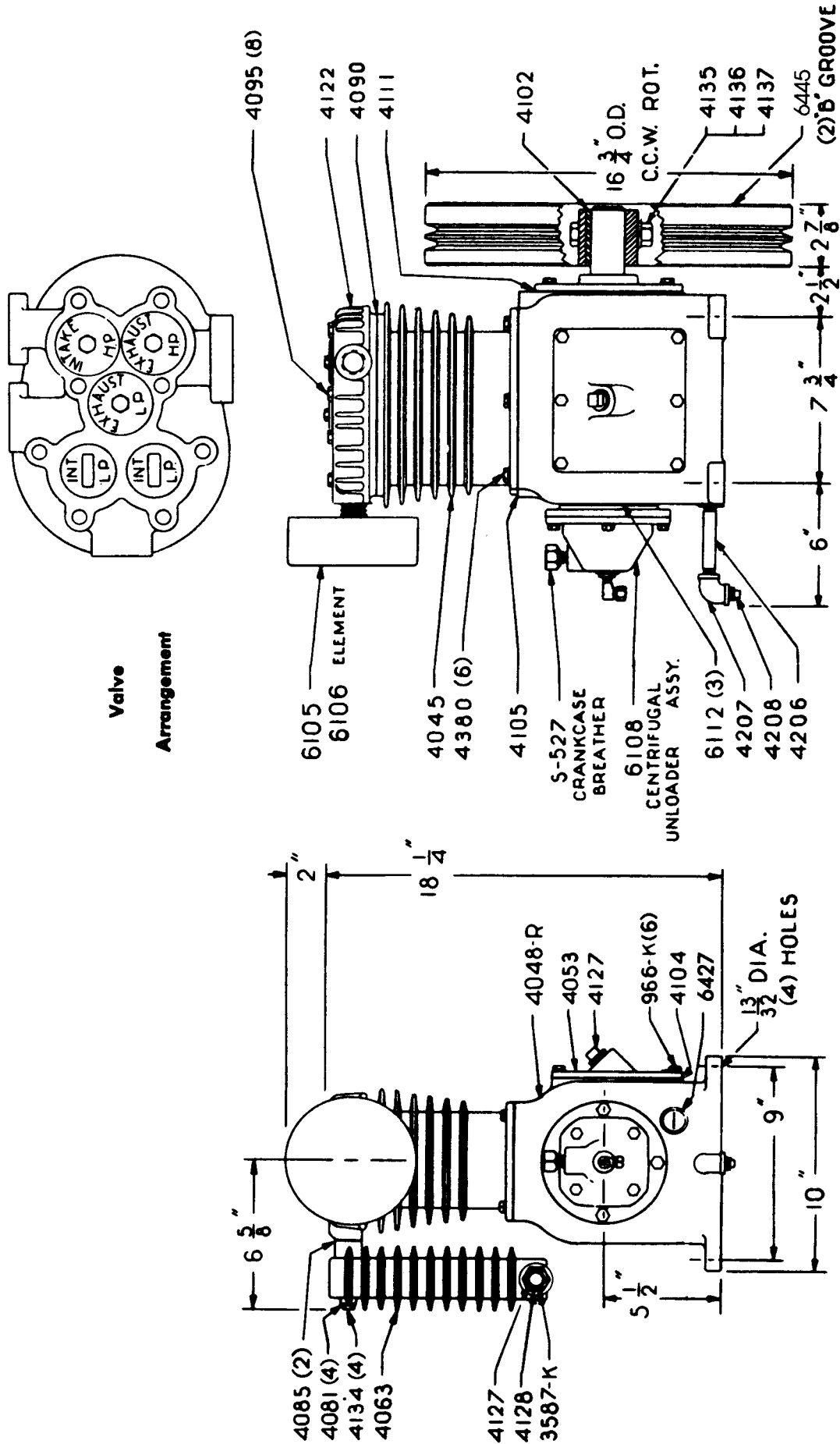


Valve
Arrangement



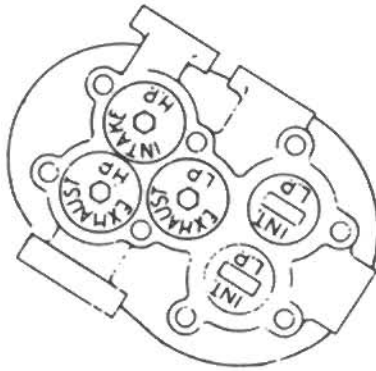
MODEL 703 COMPRESSOR

Figure 1

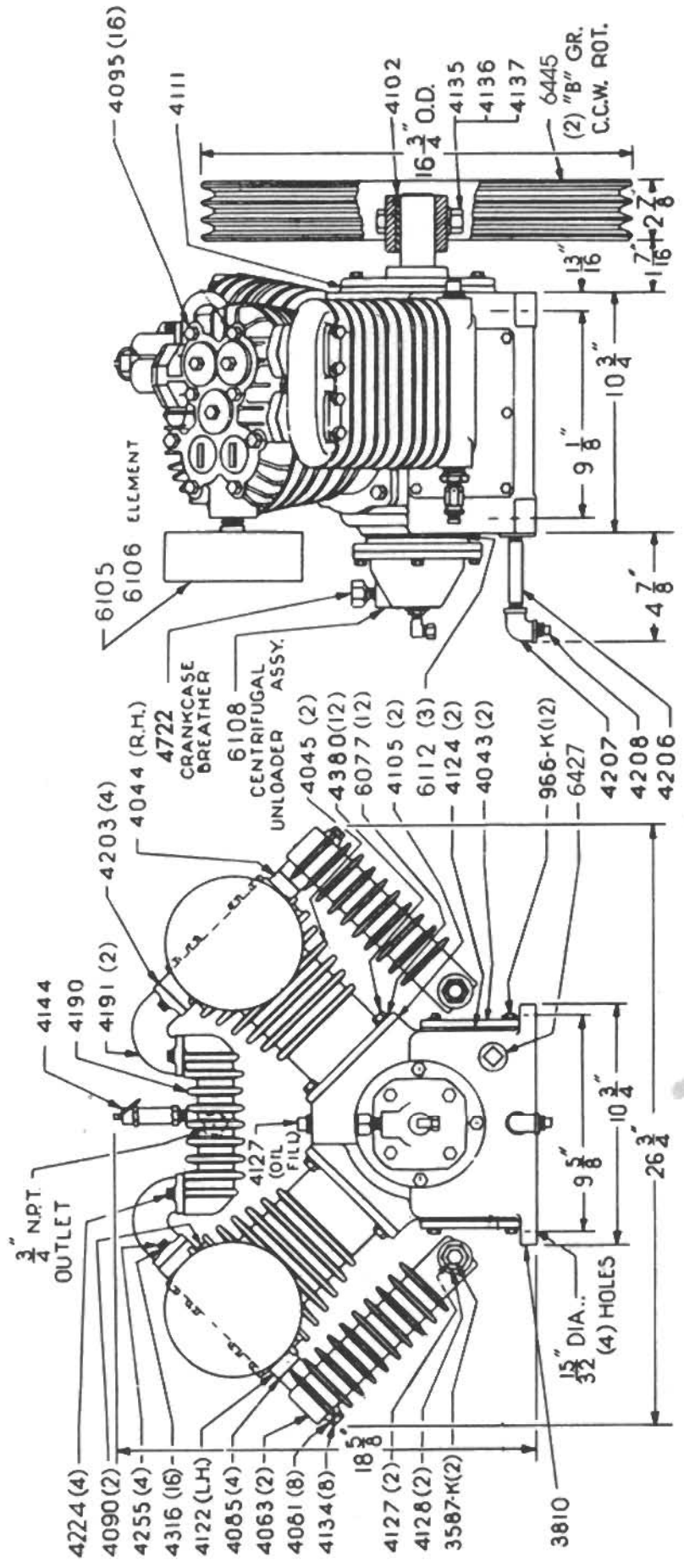
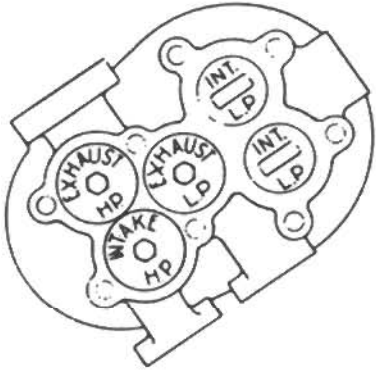


MODEL 705 COMPRESSOR

Figure 2



Valve Arrangement



MODEL 707 COMPRESSOR

Figure 3

MODEL 703

Figure 1

Part Name	Part No.	No. Req.
Crankcase Assembly	4539	1
Crankcase	4048-R	1
Oil Sight Glass	6427	1
Cylinder	4033	1
Cylinder Head	4121	1
Intercooler Assembly	4536	1
Intercooler	4063	1
Reducer Bushing	4128	1
Pipe Plug	4127	1
Safety Valve	3587-K	1
Side Cover	4053	1
Flywheel Assembly	4537	1
Flywheel	6445	1
Bolt	4135	1
Lockwasher	4136	1
Nut	4137	1
Gasket — Cylinder Head	4066	1
Gasket — Cylinder to Crankcase	4105	1
Gasket — Front Cover	4111	1
Gasket — Side Cover	4104	1
Gasket — Intercooler	4085	2
Shims — Brg. Adj.	6112	3
Gasket Set	4310	1

MODEL 705

Figure 2

Part Name	Part No.	No. Req.
Crankcase Assembly	4539	1
Crankcase	4048-R	1
Oil Sight Glass	6427	1
Cylinder	4045	1
Cylinder Head	4122	1
Intercooler Assembly	4536	1
Intercooler	4063	1
Reducer Bushing	4128	1
Pipe Plug	4127	1
Safety Valve	3587-K	1
Side Cover	4053	1
Flywheel Assembly	4546	1
Flywheel	6445	1
Bolt	4135	1
Lockwasher	4136	1
Nut	4137	1
Gasket — Cylinder Head	4090	1
Gasket — Cylinder to Crankcase	4105	1
Gasket — Front Cover	4111	1
Gasket — Side Cover	4104	1
Gasket — Intercooler	4085	2
Shims — Brg. Adj.	6112	3
Gasket Set	4311	1

MODEL 707

Figure 3

Part Name	Part No.	No. Req.
Crankcase Assembly	4547	1
Crankcase	3810	1
Oil Sight Glass	6427	1
Cylinder	4045	2
Cylinder Head — R.H.	4044	1
Cylinder Head — L.H.	4122	1
Intercooler Assembly	4536	2
Intercooler	4063	2
Reducer Bushing	4128	2
Pipe Plug	4127	2
Safety Valve	3587-K	2
Side Cover	4043	2
Flywheel Assembly	4607	1
Flywheel	6445	1
Bolt	4135	1
Lockwasher	4136	1
Nut	4137	1
Exhaust Manifold	4190	1
Elbow — Exhaust Manifold	4191	2
Gasket — Cylinder Head	4090	2
Gasket — Cylinder to Crankcase	4105	2
Gasket — Front Cover	4111	1
Gasket — Side Cover	4124	2
Gasket — Intercooler	4085	4
Shims — Brg. Adj.	6112	3
Gasket — Exhaust Manifold	4203	4
Gasket Set	4312	1
Flat Washer	4316	8

MODELS 703, 705, 707

Figures 1, 2 & 3

Part Name	Part No.	No. Req.		
		703	705	707
Air Filter Silencer	6105	1	1	2
Filter Elements (6105)	6106	1	1	2
Oil Bath Intake Filter	4462	1	1	2
Crankcase Breather	S-527	1	1	
Centrifugal Unloader Ass'y.	6108	1	1	1
Safety Valve	4144	—	—	1
Pipe—Oil Drain	4206	1	1	—
Elbow—Oil Drain	4207	1	1	—
Plug—Oil Drain	4208	1	1	—
Head Bolts	4188	8	—	— 3/8
Head Bolt	4095	—	8	16 - 7/16
Cylinder Bolts	4380	6	6	12 - 3/8
Side Cover Bolts	966-K	6	6	12 - 5/16
Intercooler Bolts	4134	4	4	8 - 5/16
Manifold Bolts	4224	—	—	4 - 5/16
Manifold Bolts	4255	—	—	4 - 5/16
Key—Flywheel	4102	1	1	1
Washer—Cylinder	6077	—	—	12
Washer—Copper	4061	10	10	20
Pipe Plug—Oil Fill	4127	1	1	1

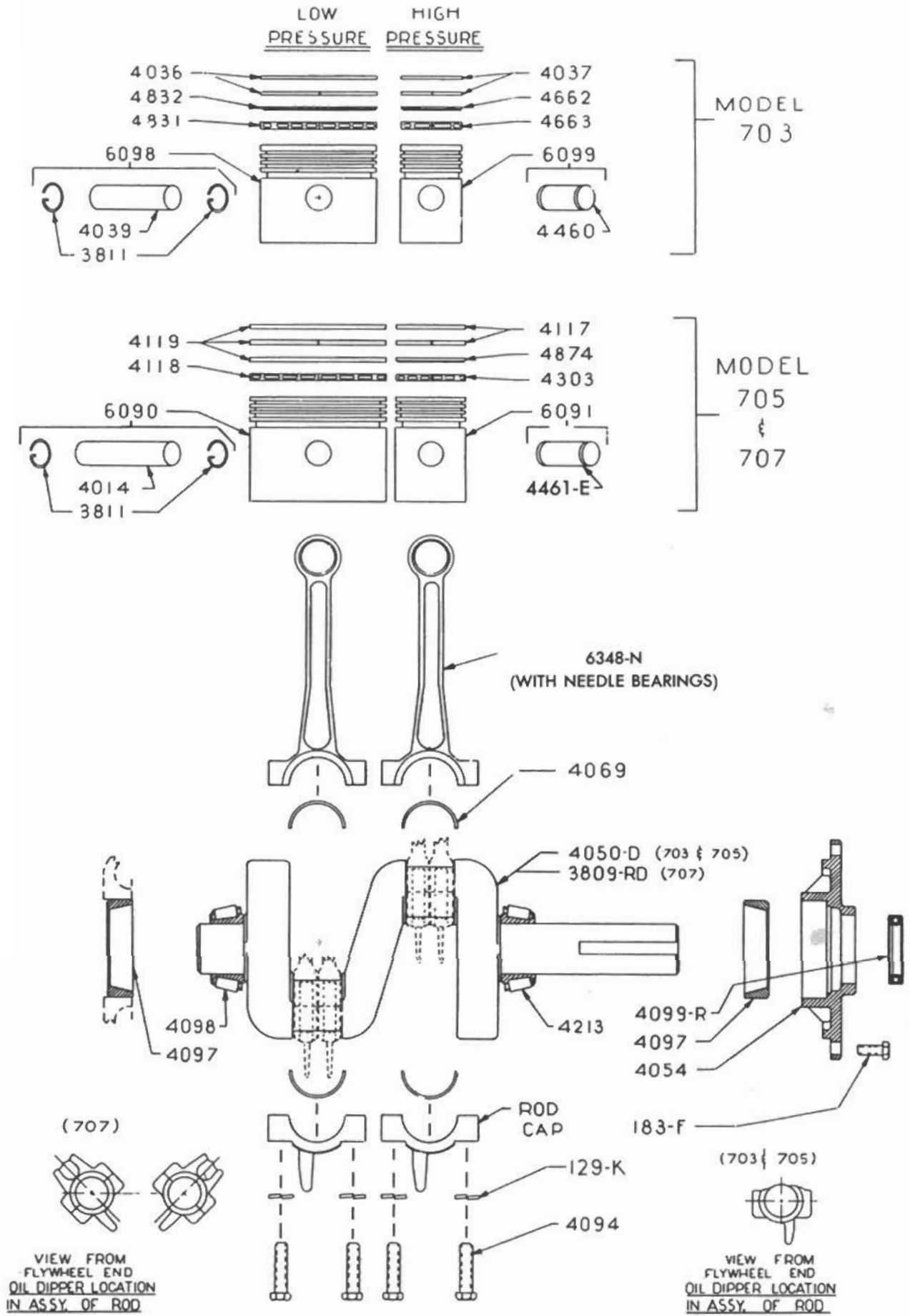


Figure 4

MODEL 703
Figure 4

Part Name	Part No.	No. Req.
Crankshaft Assembly		
Crankshaft.....	4050-D	1
Bearing Cone – Front.....	4213	1
Bearing Cone – Rear.....	4098	1
Front Bearing Cover Ass'y.	4531	1
Cover.....	4054	1
Bearing Cup.....	4097	1
Shaft Seal.....	4099-R	1
Bolts.....	183-F	6
Bearing Cup – Rear.....	4097	1
Connecting Rod Ass'y. (LP, HP)	6381-N	2
Connecting Rod.....	6348-N	2
Needle Bearing (Wrist Pin)	4126	4
** Bearing Insert (halves).....	4069	4
Rod Bolts.....	4094	4
Lockwashers.....	129-K	4
** Available in pairs only		
Piston and Ring Ass'y. – L.P. (3-1/2)	6100	1
Piston.....	6098	1
Wrist Pin.....	4039	1
Retaining Pin.....	3811	2
Compression Ring.....	4036	2
Compression Ring.....	4832	1
Oil Ring.....	4831	1
Piston Ring Ass'y. – H.P. (1 7/8)	6101	1
Piston.....	6099	1
Wrist Pin.....	4460	1
Compression Ring.....	4037	2
Compression Ring.....	4662	1
Oil Ring.....	4663	1
Piston Ring Set.....	6102	1

MODEL 705
Figure 4

Crankshaft Assembly		
Crankshaft.....	4050-D	1
Bearing Cone – Front.....	4213	1
Bearing Cone – Rear.....	4098	1
Front Bearing Cover Ass'y.	4531	1
Cover.....	4054	1
Bearing Cup.....	4097	1
Shaft Seal.....	4099-R	1
Bolts.....	183-F	6
Bearing Cup – Rear.....	4097	1
Connecting Rod Ass'y. (LP, HP)	6381-N	2
Connecting Rod.....	6348-N	2
** Bearing Insert (halves).....	4069	4
Needle Bearing (Wrist Pin)	4126	2
Rod Bolts.....	4094	4
Lockwashers.....	129-K	4
** Available in pairs only		

MODEL 705
(Continued)

Part Name	Part No.	No. Req.
Piston and Ring Ass'y. – L.P. (4-1/8)	6092	1
Piston.....	6090	1
Wrist Pin.....	4014	1
Retaining Pin.....	3811	2
Compression Ring.....	4119	3
Oil Ring.....	4118	1
Piston Ring Ass'y. – H.P. (2 1/8)	6093	1
Piston.....	6091	1
Wrist Pin.....	4461	1
Retaining Ring.....	3811	2
Compression Ring.....	4117	2
Compression Ring.....	4874	1
Oil Ring.....	4303	1
Piston Ring Set.....	6094	1

MODEL 707
Figure 4

Crankshaft Assembly		
Crankshaft.....	3809-RD	1
Bearing Cone – Front.....	4213	1
Bearing Cone – Rear.....	4098	1
Front Bearing Cover Ass'y.	4531	1
Cover.....	4054	1
Bearing Cup.....	4097	1
Shaft Seal.....	4099-R	1
Bolts.....	183-F	6
Bearing Cup – Rear.....	4097	1
Connecting Rod Ass'y. (LP, HP)	6381-N	4
Connecting Rod.....	6348-N	4
Needle Bearing (Wrist Pin)	4126	2
Bearing Insert (halves).....	4069	8
Rod Bolts.....	4094	8
Lockwashers.....	129-K	8
Piston and Ring Ass'y. – L.P. (4-1/8)	6092	2
Piston.....	6090	2
Wrist Pin.....	4014	2
Retaining Ring.....	3811	4
Compression Ring.....	4119	6
Oil Ring.....	4118	2
Piston and Ring Ass'y. – H.P. (2 1/8)	6093	2
Piston.....	6091	2
Wrist Pin.....	4461-E	2
Retaining Ring.....	3811	4
Compression Ring.....	4117	2
Compression Ring.....	4874	2
Oil Ring.....	4303	2
Piston Ring Set.....	6095	1

NOTE: When ordering parts – specify Model No. & Serial No. of Pump.

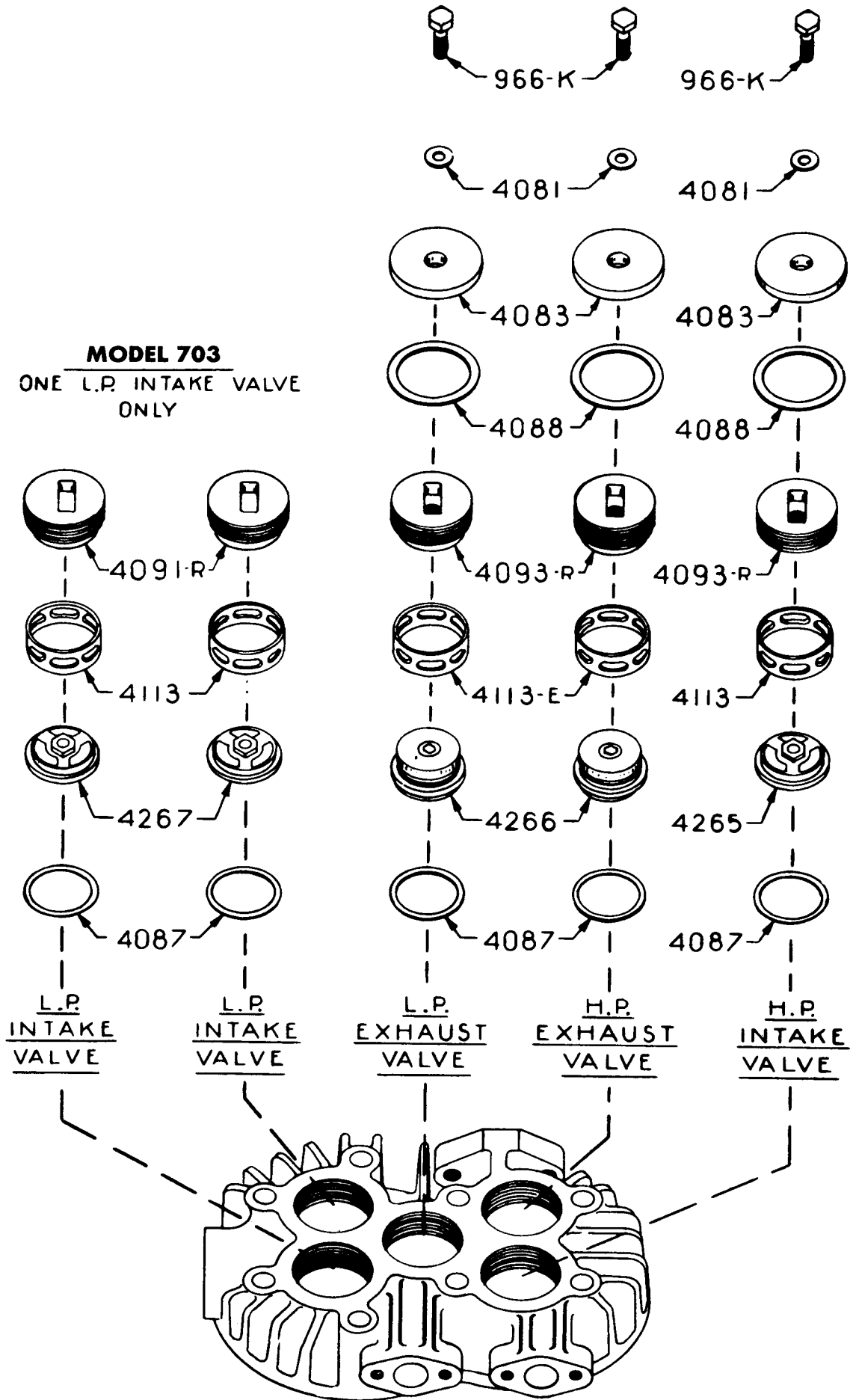


Figure 5

Figure 5

Start - Stop

Part No.	Part No.	No. Req.
703	705	707
Cylinder Head and Valve Assembly	4471	1
Cylinder Head and Valve Assembly	4473	1
Cylinder Head and Valve Assembly	4472	1
(2) Low Pressure Intake Valve Assembly	4267	2
(2) High Pressure Intake Valve Assembly	4265	2
(2) Exhaust Valve Assembly (HP & LP)	4266	2
(1)(2) Gasket — All Valves	4087	4
Spacer — Exh. Valves	4113-E	2
Spacer — Int. Valves	4113	2
Retainer — L.P. Intake Valve	4081-R	1
Retainer — Exhaust Valve	4083-R	2
Retainer — H.P. Intake Valve	4083-R	1
(1)(2) Gasket — Valve Cover	4088	3
Cover — Valve	4083	3
(1)(2) Copper Washer	4081	3
Bolt — Valve Cover	966-K	3
Valve Repair Kit (for 4 valves)	4805	1
Valve Repair Kit (for 5 valves)	4806	1
Valve Repair Kit (for 10 valves)	4807	1
Valve Replacement Kit (4 valves)	4812	1
Valve Replacement Kit (5 valves)	4813	1
Valve Replacement Kit (10 Valves)	4814	1

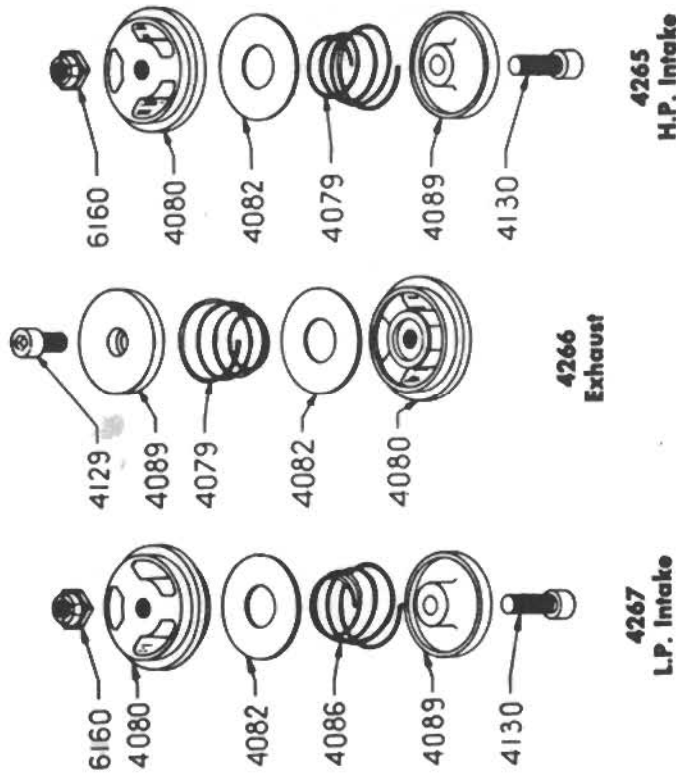


Figure 6

Valve Components

Nut	6160
(1) Spring	4079
Seat	4080
(1) Valve Plate	4082
(1) Spring	4086
Valve Guide	4089
Allen Screw	4129
Allen Screw	4130

(1) Included in Valve Repair Kits

(2) Included in Valve Replacement Kits

6108 CENTRIFUGAL UNLOADER

Figure 7

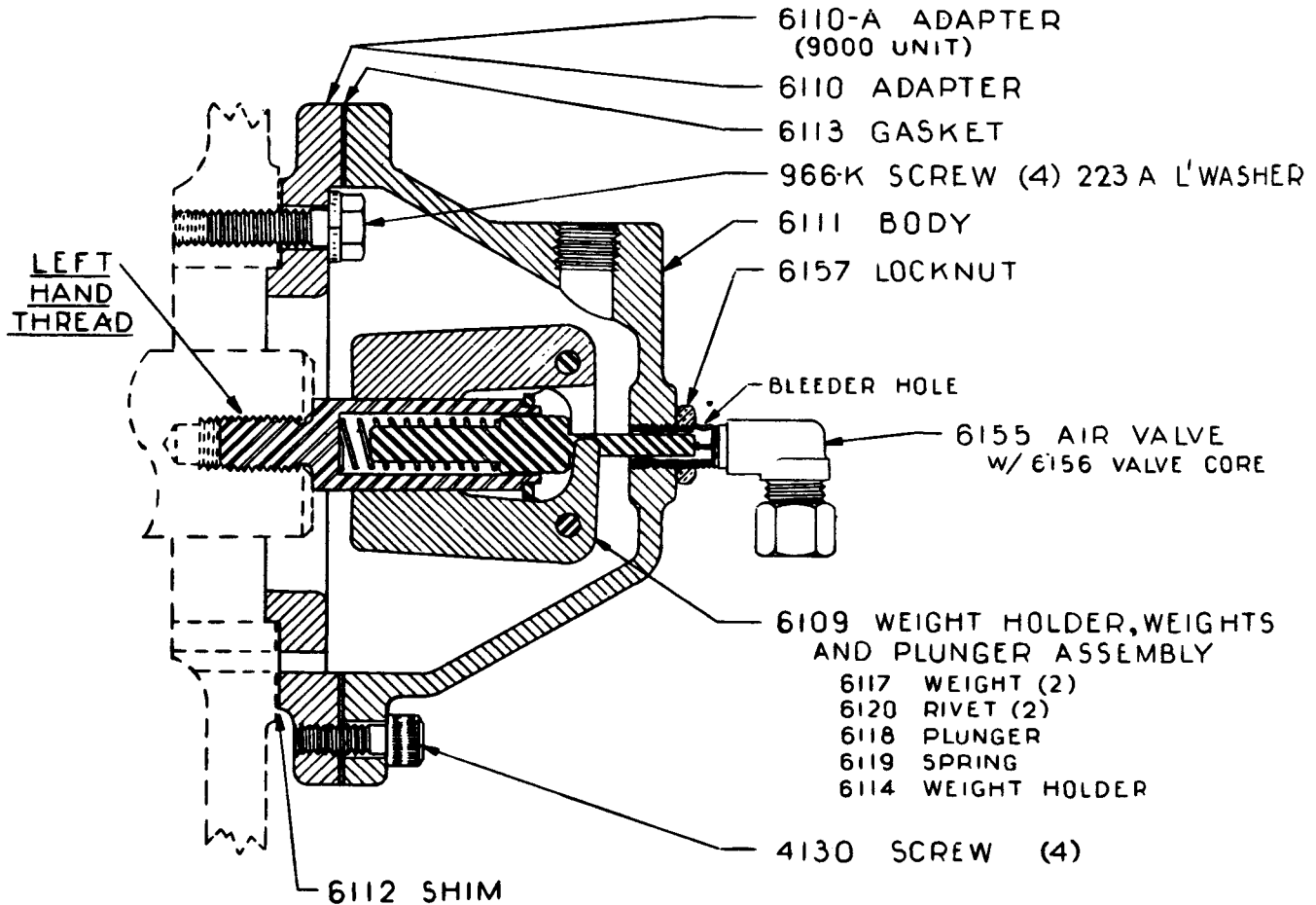


Figure 7

Part Name	Part No.	No. Req.
Adapter Plate	6110	1
Body	6111	1
Weight Holder, Weights and Plunger Assembly	6109	1
Weights	6117	2
Rivets	6120	2
Plunger	6118	1
Spring	6119	1
Weight Holder	6114	1
Air Valve Assembly	6155	1
Valve Core	6156	1
Lock Nut	6157	1
Gasket	6113	1
Shim	6112	as req.
Bolt	966-K	4
Bolt	4130	4
Lock Washer	223-A	4

Note: When ordering parts, give Model No. and Serial No. of Pump

Figure 8

**CONSTANT SPEED
DISCHARGE UNLOADER VALVE**

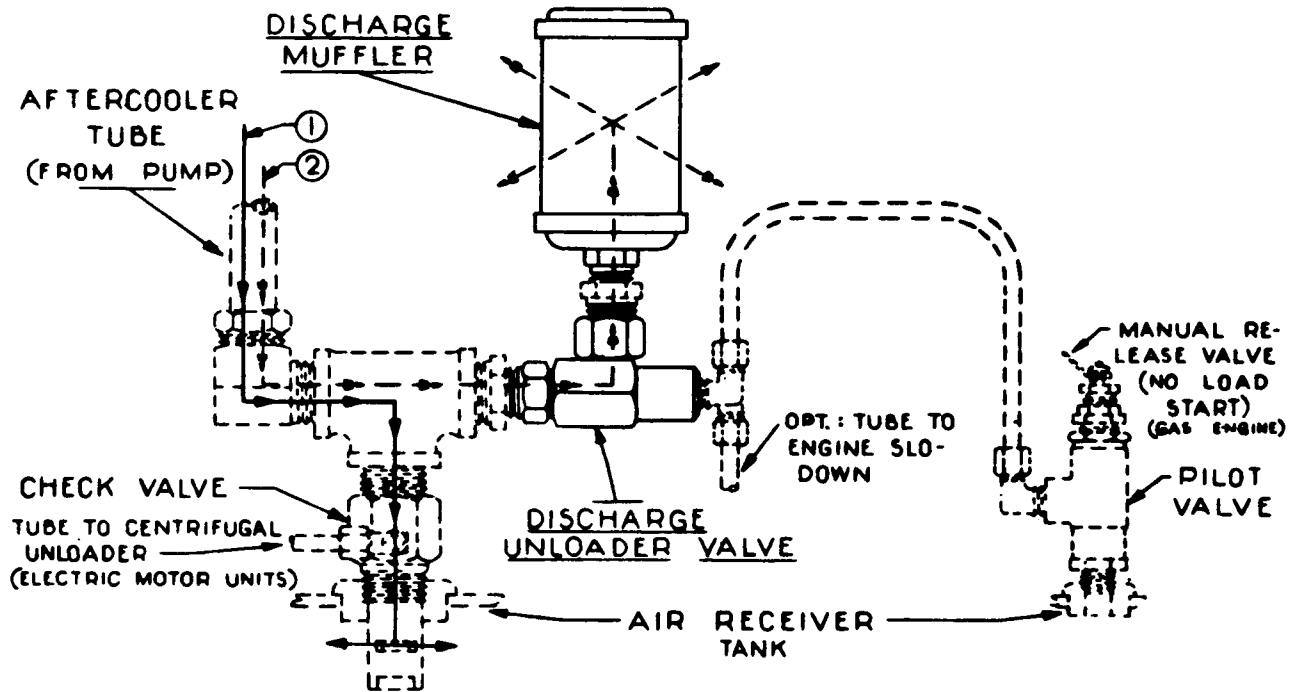
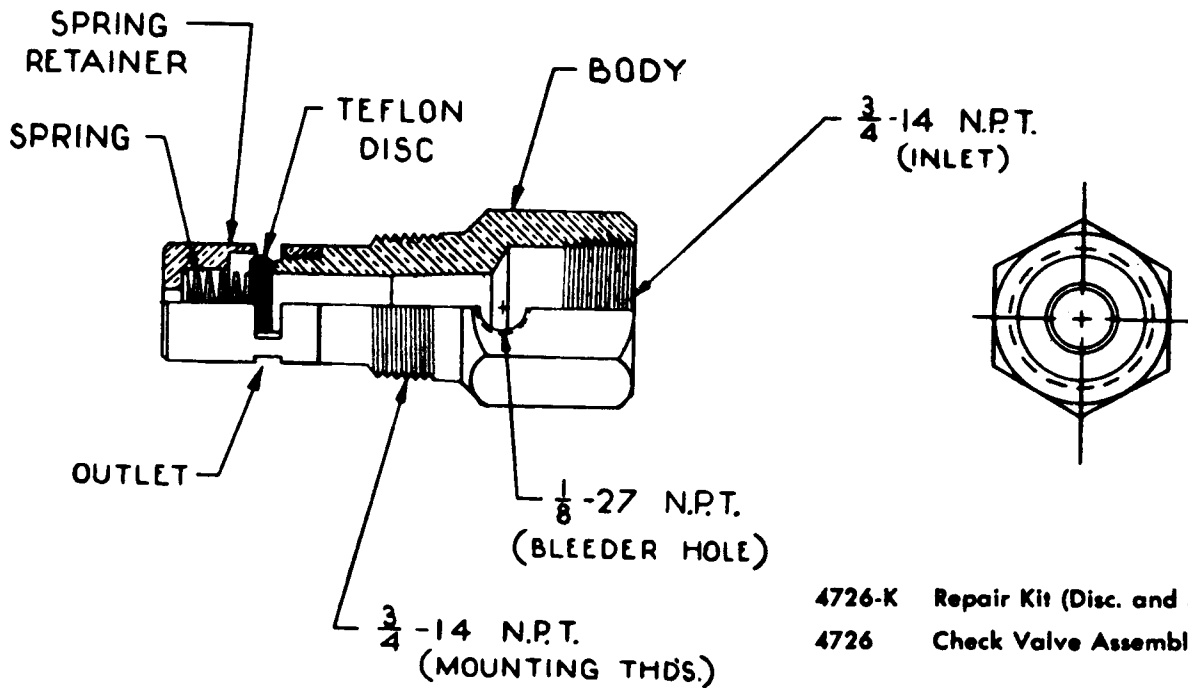


Figure 8

Part Name	Part No.
Discharge Unloader Valve (703 & 705)	6154
Discharge Unloader Valve (707)	6184
Discharge Muffler (703, 705 & 707)	6158

4726 CHECK VALVE



- 4726-K Repair Kit (Disc. and Spring)
- 4726 Check Valve Assembly

Note: When ordering parts, give Model No. and Serial No. of Pump

DISASSEMBLY

1. Loosen motor – slide toward pump. Remove belts and flywheel. Use wedge in slot of flywheel after loosening bolt. Disconnect aftercooler tube and tube to centrifugal unloader. Remove 4 bolts, securing pump to base.
2. Remove exhaust manifold (707), cylinder heads and intercooler.
3. Mark top of pistons for reassembling in same position.
4. Remove side plates.
5. To remove connecting rod – remove rod bolts, noting position of the identification marks on one side of each so that connecting rods are re-installed in original position. **DO NOT INTERCHANGE ROD CAPS!**
6. Remove connecting rod and piston assembly thru bottom of cylinder. Cylinder must be removed from crankcase.
7. To remove pistons from connecting rod – remove two retaining rings, one on each end of wrist pin – L.P. piston only. "Tap" wrist pin out of piston.
8. To remove crankshaft – remove key from flywheel and burrs or foreign matter to prevent damage to shaft seal. Remove bolts from front cover and remove cover being careful not to let crankshaft drop. *Remove centrifugal unloader, attached to rear end of crankshaft. Slide crankshaft out thru front cover.
9. To remove valves from cylinder head – remove (3) valve cover plates (H.P. intake and exhaust valves). Remove threaded plugs (slots provided for removal) and spacers atop each valve. Lift valves out thru openings. **DO NOT INTERCHANGE VALVES!**

*Centrifugal unloader is assembled and disassembled by screwing the entire assembly into the end of the crankshaft. This assembly is provided with a **LEFT HAND THREAD** and must be firmly tightened. **CAUTION:** incorrect rotation of compressor unit will unscrew this assembly! Rotation must be CCW facing flywheel end.

Crankshaft Rod Journal Diameter 1.5630/1.5620
Wrist Pin Diameter7501/ .7497

Caution: Wrist pins are a "tap fit" into pistons! **DO NOT USE FORCE!** Forcing will remove "cam" from L.P. Pistons, resulting in "galling" of piston.

Oversize Bearing Inserts, Piston and Piston Rings NOT AVAILABLE.

REASSEMBLY

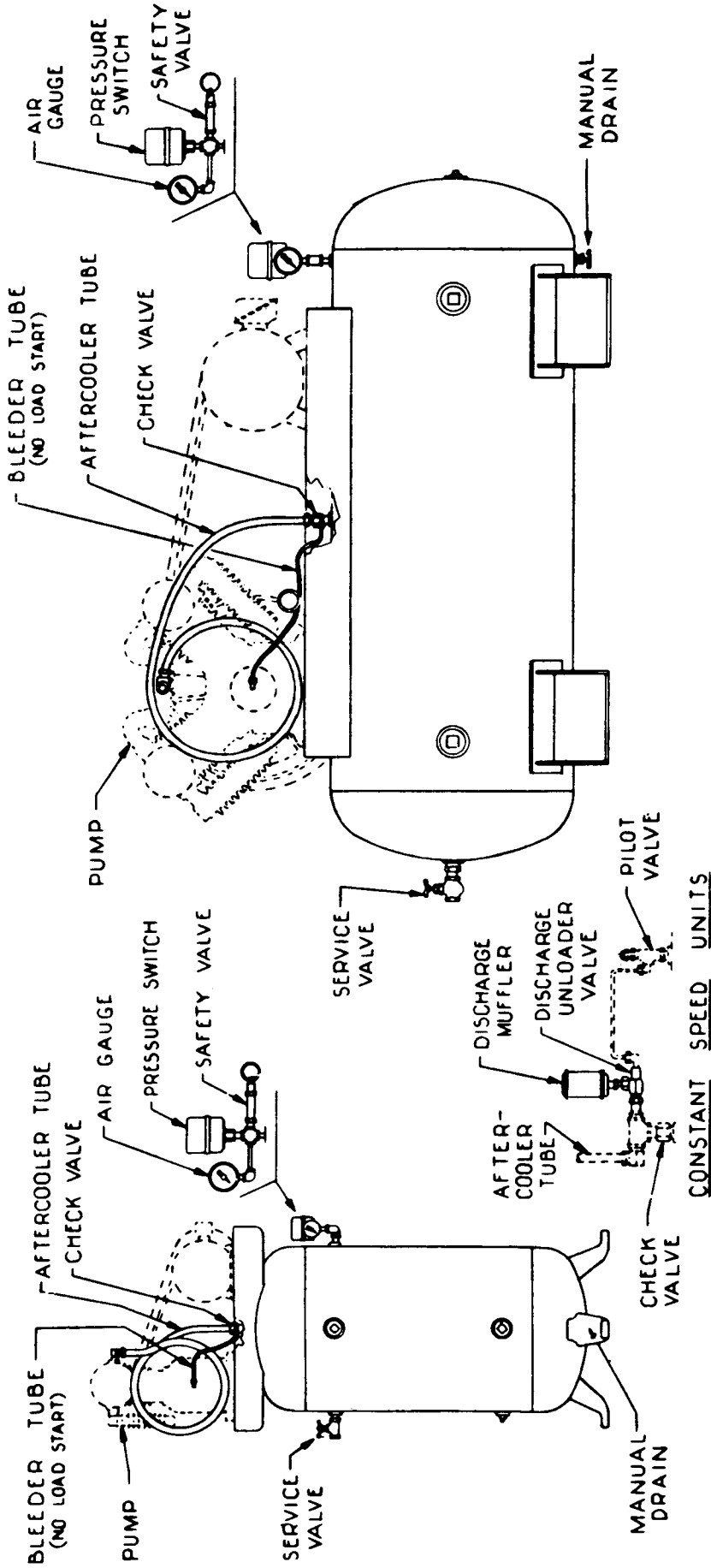
1. Crankshaft – install crankshaft into crankcase thru front cover hole. Install front cover over crankshaft being careful not to tear shaft seal. Install bolts and tighten. Crankshaft end play is determined by inserting or removing "shims" under rear adapter plate. Shims are provided in three thicknesses and the proper combinations must be selected so the crankshaft may be turned freely in bearings without end play!
2. Cylinder – scored cylinders should be replaced. Break glaze in cylinders if used cylinders are reinstalled. Piston, rings and connecting rod assembly must be assembled in cylinder bores before assembling cylinders. Align rods with crankshaft throws, remove rod caps (**DO NOT INTERCHANGE ROD CAPS!**), set cylinder on crankcase and install bolts and copper washers – tighten per torque chart.
3. Pistons – clean ring grooves and oil return holes. Assemble connecting rod in piston and push wrist pin thru – use "tap fit" on wrist pin – using "force" will remove "cam" from low pressure piston resulting in galling. If wrist pin is slightly tight – heat piston slightly before "tapping" wrist pin in. Install retaining rings on L.P. piston pins. Rings – install oil ring in bottom groove, followed by stepped scraper ring and then two compression rings. Stagger ring gaps a minimum of 90° from each other. See Figure #4.
4. Connecting Rod – install the bearing inserts into the rod and cap, fitting the locating projections into grooves provided. Assemble rod cap (after oiling both halves of insert bearing) and tighten. Tap rod cap and rod to "seat" bearing inserts. Never file rod cap or use shims to adjust bearing clearance.

Install connecting rod into piston per step 3 and piston and rod assembly into cylinder per step 2. When inserting piston and rod assembly into cylinder bore, compress rings to prevent breaking and scoring of cylinder wall.

5. Cylinder Head – install valves and components (as shown in Figure 5) being careful not to interchange valves – tighten per torque chart. Install cylinder head assembly on cylinder, install bolts and tighten.

Install intercooler and exhaust manifold (707).

6. Turn pump over by "hand" before starting. It is recommended that the pump be "run in" a few hours.

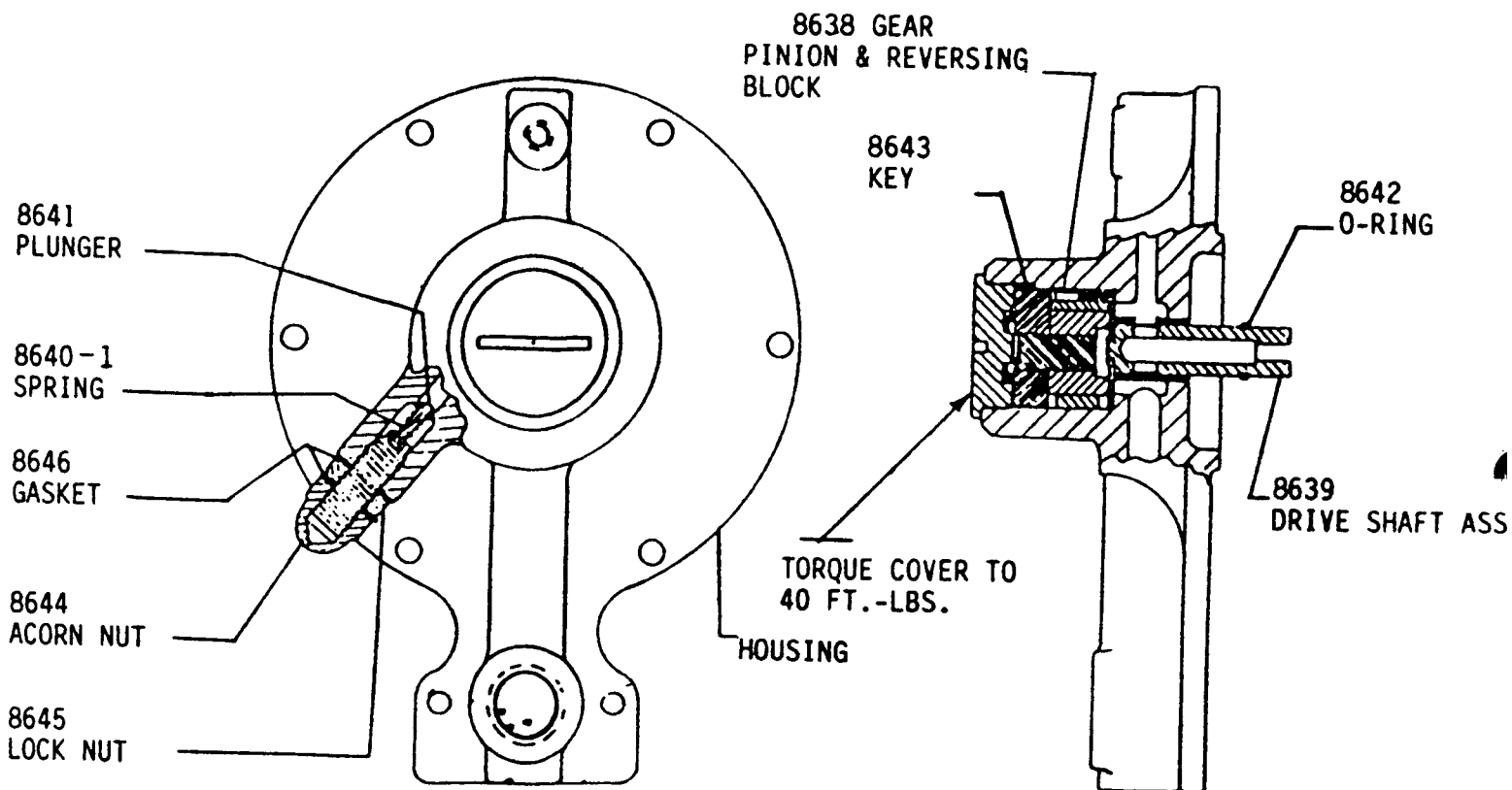


MOTOR H.P.	PRESSURE SWITCH	AIR GAUGE	SAFETY VALVE	CHECK VALVE	SERVICE VALVE	AFTERCOOLER TUBE	MANUAL DRAIN	DISCHARGE UNL. VALVE	DISCHARGE MUFFLER	PILOT VALVE	PUMP REF.
1-1/2 & 2 HP	4876	4179	4144	4726	4167	4180-16	5-554	6154	6158	4842	703
3 & 5 HP	4876	4179	4144	4726	4262	4180-16	5-554	6154	6158	4842	705
7-1/2 & 10 HP	4876	4179	4144	4726	4262	4180-6	5-554	6184	6158	4842	707
8 HP GAS	...	4179	4144	4726	4167	4180-4	5-554	6154	6158	6028	703
10 HP GAS	...	4179	4144	4726	4262	4180-4	5-554	6154	6158	6028	705
18 HP GAS	...	4179	4144	4726	4262	4180-10	5-554	6184	6158	6028	707

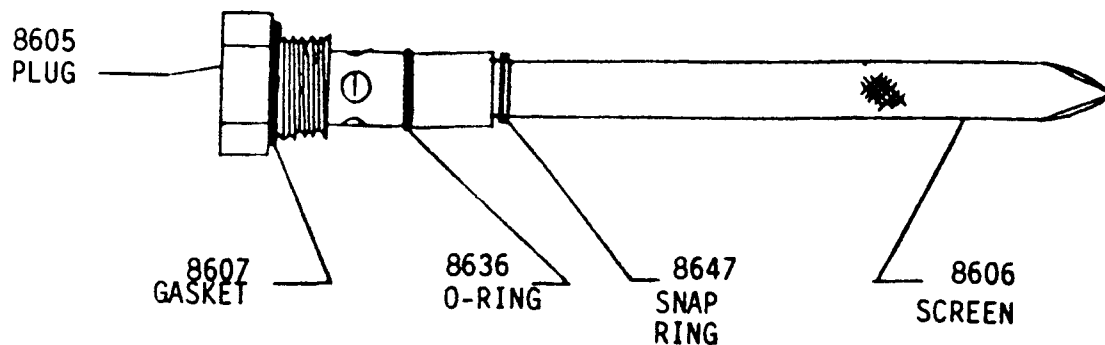
PL-703 PL-705 PL 707

PRESSURE LUBRICATED

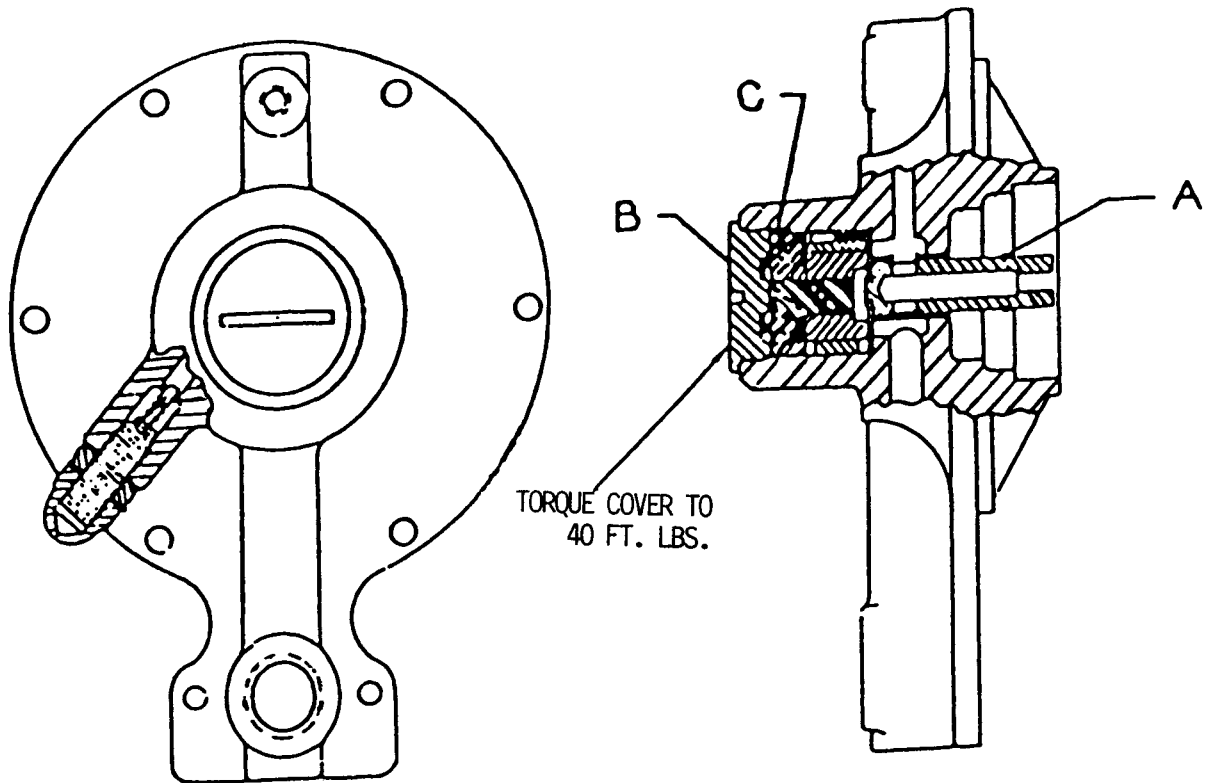
6407 OIL PUMP ASSY.



8604 OIL SUMP ASSY.



PUMP DISASSEMBLY AND ASSEMBLY



PUMP D ASSEMBLY

Remove O-Ring (A) from pump shaft

Remove pump cover (B) by turning counterclockwise.

Remove stop pin (C) with magnet.

By pushing on end of pump shaft the entire assembly can be removed.

REASSEMBLY

Reverse the above procedure making sure the drive pins in the gear are properly aligned with the drive plate, and the stop pin is positioned in the short slot in the pump housing.

Turn pump shaft a few times to ensure proper assembly.

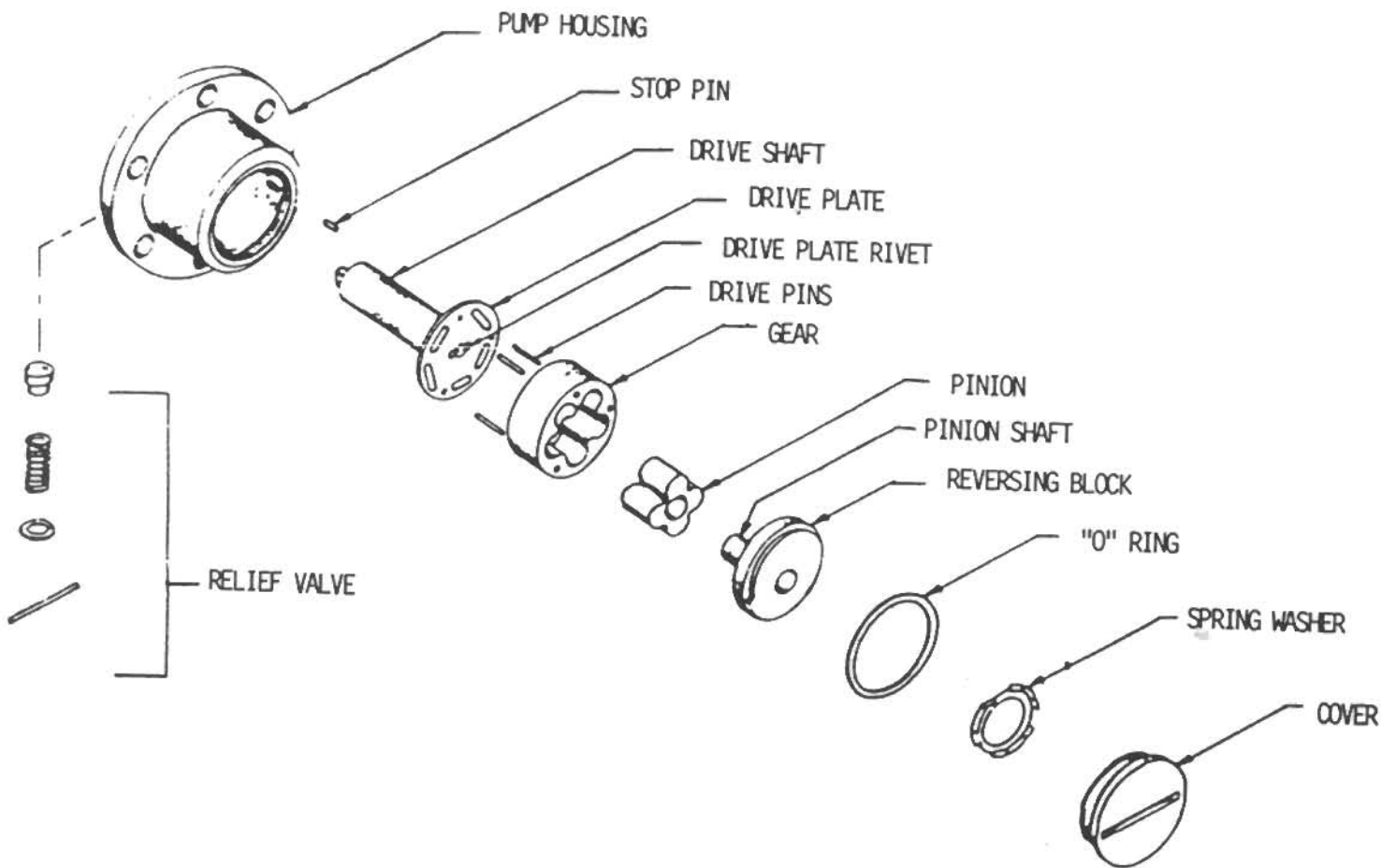
Prime the pump before initial start-up.

OIL PUMP OIL PRESSURE (OIL WARM) = 20 P.S.I.G.

MODEL PL703, PL705, PL707
PRESSURE LUBRICATED
PARTS LIST

(OTHERWISE SAME AS SPLASH LUBRICATED)

PART NAME	PART NO.	NO. REQUIRED		
		PL703	PL705	PL707
OIL PUMP ASSEMBLY	6407	1	1	1
Housing	6402	1	1	1
Gear, Pinion & Reversing Block	8638	1	1	1
Drive Shaft Assembly	8639	1	1	1
O-Ring - Drive Shaft	8642	1	1	1
Key	8643	1	1	1
Spring - Relief Valve	8640-1	1	1	1
Plunger - Relief Valve	8641	1	1	1
Gasket - Relief Valve	8646	2	2	2
Locknut - Relief Valve	8645	1	1	1
Acorn Nut - Relief Valve	8644	1	1	1
Bushing	8650	1	1	1
OIL SUMP ASSEMBLY	8604	1	1	1
Plug	8605	1	1	1
Screen	8606	1	1	1
Snap Ring	8647	1	1	1
O-Ring	8636	1	1	1
Gasket	8607	1	1	1
GASKET - OIL PUMP TO CRANKCASE	6404	1	1	1
SHIM - FRONT COVER - END PLAY ADJ.	6403	3	3	3
CRANKSHAFT ASSEMBLY	3809-P	--	--	1
Bearing Cone - Rear	4098	--	--	1
Bearing Cone	4213	--	--	1
Drive Pin	6120	--	--	1
Pipe Plug	6413	--	--	2
CRANKSHAFT ASSEMBLY	4050-P	1	1	--
Bearing Cone - Rear	4098	1	1	--
Bearing Cone - Front	4213	1	1	--
Drive Pin	6120	1	1	--
Pipe Plug	6413	1	1	--
CRANKCASE	3810-P	--	--	1
CRANKCASE	4048-P	1	1	--
FRONT COVER	4054-P	1	1	1
Bearing Cup	4097	1	1	1
CONNECTING ROD	6348-P	2	2	4
OIL PRESSURE GAUGE	8614	1	1	1
BOLTS - BOTTOM PLUG HOUSING	4130	2	2	2
ST. ELL - 1/2" BRASS - CRANKCASE BREATHER	3888-K	1	1	1
NIPPLE - 1/4" x 1-1/4" - CRANKCASE BREATHER	692-K	1	1	1
COUPLING - 1/4" - CRANKCASE BREATHER	3998-K	1	1	1
BREATHER ASSEMBLY - CRANKCASE (Front Cover)	4722	1	1	1



PLEASE NOTE

WARRANTY

Saylor-Beall Manufacturing Co. warrants its compressors and parts when properly installed, lubricated and maintained as recommended and in accordance with good industry practice to be free from defects in material and workmanship under normal use and service. The responsibility of the Company under this warranty is limited to repair or replacement, at the Company's factory, any compressor or part thereof, which shall, within one year after date of shipment to the original purchaser, be returned to the company and which, upon examination, shall be found to be defective to the satisfaction of the Company.

This warranty shall not apply to compressors or parts which have been subjected to misapplication, misuse, negligence or accident, to compressors or parts which have been repaired or tampered with outside of the Company's factory when in the judgment of the Company, it appears that the reliability or stability of the compressor or part has been effected. Ordinary maintenance, such as adjustment and cleaning of equipment or components is the responsibility of the owner. All transportation and shipping charges shall be paid by purchaser.

This warranty does not apply to electric motors or gasoline engines. These are covered by the Original Manufacturer's Warranty and should be returned by the purchaser to their authorized station for service.

This warranty is expressly in lieu of all other warranties (except of title) expressed or implied and of any other obligations or liability on the part of the Company. There are not warranties of merchantability or of fitness for a particular purpose.

SAYLOR-BEALL MANUFACTURING COMPANY

QW



SAYLOR-BEALL MANUFACTURING COMPANY

ST. JOHNS, MICHIGAN 48879

Manufacturers of Air Compressors since 1915