AIR COMPRESSORS

INSTRUCTION MANUAL

PLEASE CAREFULLY READ THIS MANUAL BEFORE USING

INTRODUCTION

Read this manual carefully before operating or servicing this air compressor to familiarize yourself with proper safety operation and maintenance procedures. FAILURE TO COMPLY WITH INSTRUCTIONS IN THIS MANUAL COULD RESULT IN PERSONAL INJURY, PROPERITY DAMAGE, AND/OR VOIDING OF YOUR WARRANTY. Following the instructions in this manual will provide a longer and safer service life for your air compressor.

SAFETY GUIDELINES

▲ DANGER-AN IMMEDIATE HAZARD THAT WILL CAUSE SERIOUS INJURY OR LOSS OF LIFE.

1. TO REDUCE THE RISK OF FIRE OR EXPLOSION, NEVER SPRAY FLAMMABLE LIQUIDS IN A CONFINDED AREA. It is normal pressure switch to produce sparks while operating. If sparks come into contact with vapors from gasoline or other solvents, they may ignite causing fire or explosion. Always operate the compressor in a well-ventilated area, Do not smoke while spraying. Do not spray where sparks or flame are present, Keep compressor as far from spray area as possible.

2. The solvents Trichloroethane and Methylene Chloride can chemically react with aluminum used in paint spray guns, paint pumps, etc, and cause an explosion, If you are using these solvents, use only stainless steel spray equipment. This does not affect your air compressor, but many affect the equipment being used.

3. Never directly inhale the compressed air produced by a compressor. It is not suitable for breathing purposes.

⚠ WARNING-A POTENTIAL HAZARD THAT COULD CAUSE SERIOUS INJURY OR LOSS OF LIFE.

1. Do not weld on the air tank of this compressor. Welding on the air compressor tank strengthen and cause an extremely hazardous condition. Welding on the tank in any manner will void the warranty.

2. Never use an electric air compressor outdoors when it is raining or on a wet surface, as it many cause an electric shock.

3. This unit starts automatically. ALWAYS shut off the compressor,

Remove the plug from the outlet, and bleed all pressure from the system before servicing the compressor, and when the compressor is not in use.

4. Check the manufacturer's maximum pressure rating for air tools and accessories. Compressor outlet pressure must be regu lated so as to never exceed the maximum pressure rating of the tool.

5. High temperatures and moving parts are presented under the shroud. To prevent burns or other injuries, DO NOT operate with the shroud remcved. Allow the compressor parts to cool before handling or servicing.

6. Be certain to read all labels when you are spraying paints or toxin materials and follow the safety instructions. Use a respirator mask if there is a chance of inhaling anything you are spraying. Read all insrtuctions and be sure that your respirator mask will protect you.

7. Always wear safety goggles or glasses when using an air compressor. Never point any nozzle or sprayer toward a person or any part of the body.

8. Do not adjust the pressure switch or relief valve for any reason, Doing so voids all warranties, They have been presented at the factory for the maxinum pressure of this unit.

▲ CAUTION-A POTENTIALL HAZARD THAT MAY CAUSE MODERATE INJURY OR DAMAGE TO EQUIPMENT.

1. Drain the mositure from the tank on a daily basis. A clean,dry tank will help prevent corrosion.

2. Pull the pressure relief valve ring daily to ensure that the valve is functioning properly, and to clear the valve of any possible obstructions.

3. To provide proper ventilation for cooling, the compressor must be kept a minimum of 12 inches from the nearest wall in a well-ventilated area.

4. Fasten the compressor down securely if transporting is necessary, Pressure must be released from the tank before transporting.

5. Protect the air hose and electric cord from damage and puncture. Inspect them weekly for weak or worn spots, and replace them if necessary.

APPLICATION

The compressors are widely used in various pneumatic tools and machines of communication, machinery manufacture, medicine and health, garments, spining and weaving works, such as tyre, gas-filling painting etc.

OPERATION LUBRICATION AND MAINTENANCE

1. Please check the technical documents carefully after you open the case (documents including introduction manual, qualified certificate.) Check if the spare parts are correct, and check if the compressor is in good condition.

2. Pull out the oil ruler, filling N32 machine lubricating oil to the oil hole till the stipulated level in winter. While in summer using N68 machine lubricating oil. Then insert oil ruler back, Plug in the power cord and operate the compressor without loading, check if it operates properly.

3. Connecting to the pncumatic tools, starting the compressor, then you can use the tools.Note: The compressor should be started without any working pressure.

4. The compressor uses machine lubricating oil, Please filling oil before operating. During operation the oil, temperature must be below 70°C (use N32in winter and N68 in summer).

5. After 500 hours operation, replace the oil, and disassemble crankcase end cover, clean the old oil and dirty things. Then reassemble the crankcase end cover, fill fresh oil.

6. Usually clean air filter once a week.

7. After operation 16 hours open petcock under tank, drain the water from the tank, Clean tank once a half year.

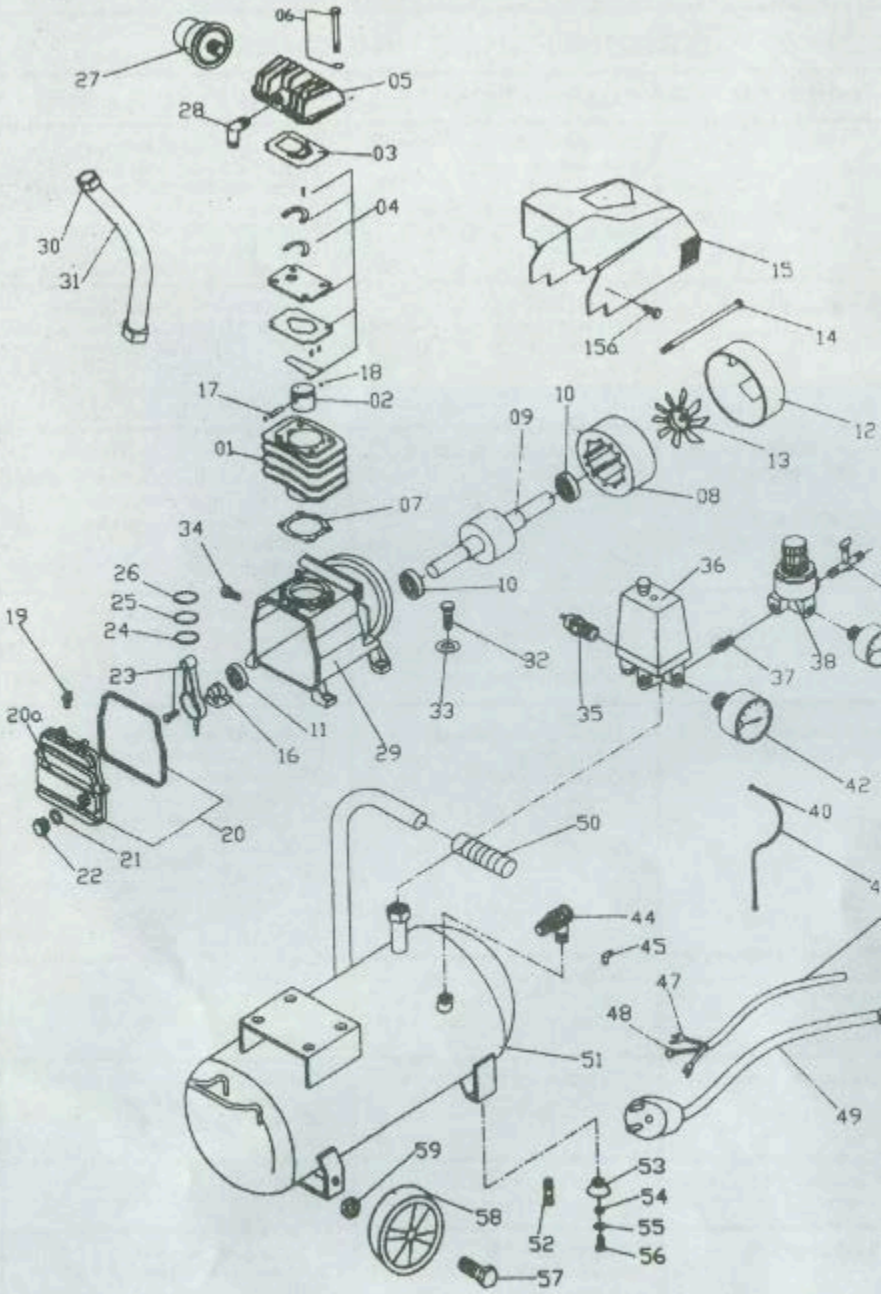
8. After each use, turn off the power. drain all the pressure from the tank.

9. Maintain the compressor normally, Disassemble the compressor. Then using light oil, such as gasoline, clean all the parts, and drying them during assembling, smear grease on the touching surfaces. If necessary repair or replace of worn parts. assemble and adjust the parts correctly.Note: Electric units should be grounded correctly.

10. If the compressor stop using for a long period, air valves and touching surface should be cleaned and smeared with grease.

TROUBLESHOOTING CHART

PROBLEM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Compressor will not run	1.No electrical power. 2.Blown fuse. 3.Breaker open. 4.Thermal overload open. 5.Pressure switch bad.	1.Plug in?Check fuse/breaker. 2.Replace blown fuse. 3 Reset determining why problem happened. 4.Motor will restart when cool (approx. 15minutes). 5.Contact Authorized Service Center.
Motor burns but cannot run or runs slowly	1.Low voltage. 2.Shorted or open motor winding. 3.Defective check valve or pressure switch. 4.Compressed air in cylinder.	1.Check with voltmeter(105v.min.) 2.Contact Authorized Service Center. 3.Contact Authorized Service Center. 4.Turn the AUTO? OFF switch to the OFF position for 15 sec., then turn to the AUTO position.
Fuses blow/circuit breaker trips repeatedly **CAUTION!!** NEVER USE AN EXTENSION CORD WITH THIS PRODUCT!	1.Incorrect fuse size ,circuit overloaded. 2.Defective check valve or pressure switch.	1.Check for proper fuse.Use time-delay fuse. Disconnect from other electrical appliances from circuit or operate compressor on its own branch circuit. 2.Contact Authorized Service Center.
Thermal overload protector cuts out repeatedly.	1.Low voltage. 2.Clogged air filter. 3.Lack of proper ventilation/room temperature too high.	1.Check with voltmeter(105 v.min.) 2.Clean filter(see Maintenance section). 3.Move compressor to well ventilated area.
Tank pressure drops when compressor shuts off.	1.Loose connections(fittings, tubing,etc.) 2.Open draincock. 3.Check valve leaking.	1.Check for air leaks.Use sealing tape on all leaking connections. 2.Tighten draincock. 3.Disassemble check valve assembly. Clean or replace. **DANGER!!** DO NOT DISASSEMBLE CHECK VALVE WITH AIR IN TANK. BLEED TANK FIRST.
Excessive moisture in discharge air	1.Excessive water in tank. 2.High humidity. 3.Clogged intake filter.	1.Drain receiver. 2.Move compressor to area of less humidity; use air line filter. 3.Clean or replace filter.
Compressor runs continually	1.Defective pressure switch. 2.Excessive air usage.	1.Replace switch. 2.Compressor not large enough to meet CFM requirement or the air tool.
Compressor vibrates.	1.Loose mounting bolts. 2.Rubber tank feet worn/missing.	1.Tighten. 2.Replace.
Air output lower than normal.	1.Open draincock. 2.intake filter dirty. 3.Connection leaking.	1.Tighten draincock. 2.Clean or replace intake filter. 3.Tighten connections.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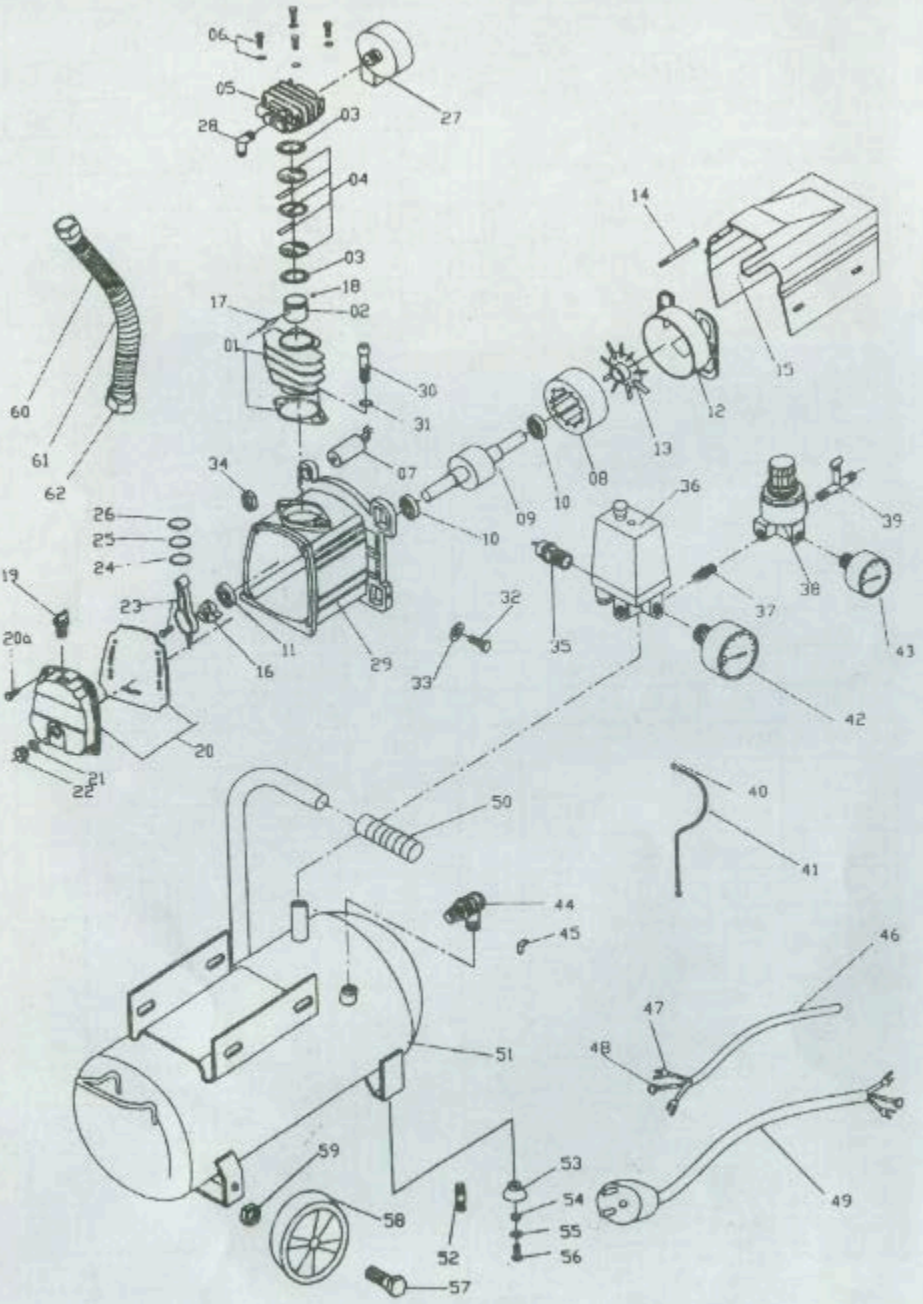
COMPRESSOR SPARE PARTS

REF.NBR.	DESCRIPTION	Q.TY	REF.NBR.	DESCRIPTION	Q.TY
1	CYLINDER	1	32	BOLT	4
2	PISTON	1	33	WASHER	4
3	GASKET	2	34	SCREW NUT	1
4	VALVE ASSEMBLY	1	35	SAFETY VALVE	1
5	CYLINDER HEAD	1	36	PRESSURE SWITCH	1
6	ALLENPAN SCREW	4	37	CONNECT	1
7	CAPACITANCE	1	38	REGULATOR	1
8	STATOR	1	39	AIR COCK	2
9	ROTATOR	1	40	UNLOADING SCREW	2
10	BEARING	2	41	UNLOADING	1
11	SHAFT SEAL	1	42	PRESSURE GAUGE	1
12	REAR CAP	1	43	PRESSURE GAUGE	1
13	FAN	1	44	CHECK VALVE	1
14	SCREW	2	45	UNLOADING ELBOW	1
15	CONVOY	1	46	ELECTRIC CABLE	1
15a	ALLENPAN SCREW	4	47	CABLE CONNECTOR(Y)	4
16	CRANK SHAFT	1	48	CABLE CONNECTOR(0)	2
17	WRIST PIN	1	49	PLUG	1
18	CIRCLIPS	2	50	HANDLE	1
19	BREATHER	1	51	TANK	1
20	CRANK CASE COVER	1	52	DRAIN COCK	1
20a	BOLT	4	53	CUSHION FOOT	2
21	SHAFT SEAL	1	54	WASHER	2
22	OIL SIGHT GLASS	1	55	WASHER	2
23	CONNECTING ROD	1	56	SCREW	2
24	PISTON RING	1	57	BOLT	2
25	PISTON RING	1	58	WHEEL	2
26	PISTON RING	1	59	SCREW NUT	2
27	FILTER ELEMENT	1			
28	ELBOW EXHAUST	1			
29	CRANKCASE	1			
30	EXHAUST PIPE	1			
31	EXHAUST SCREW NUT	2			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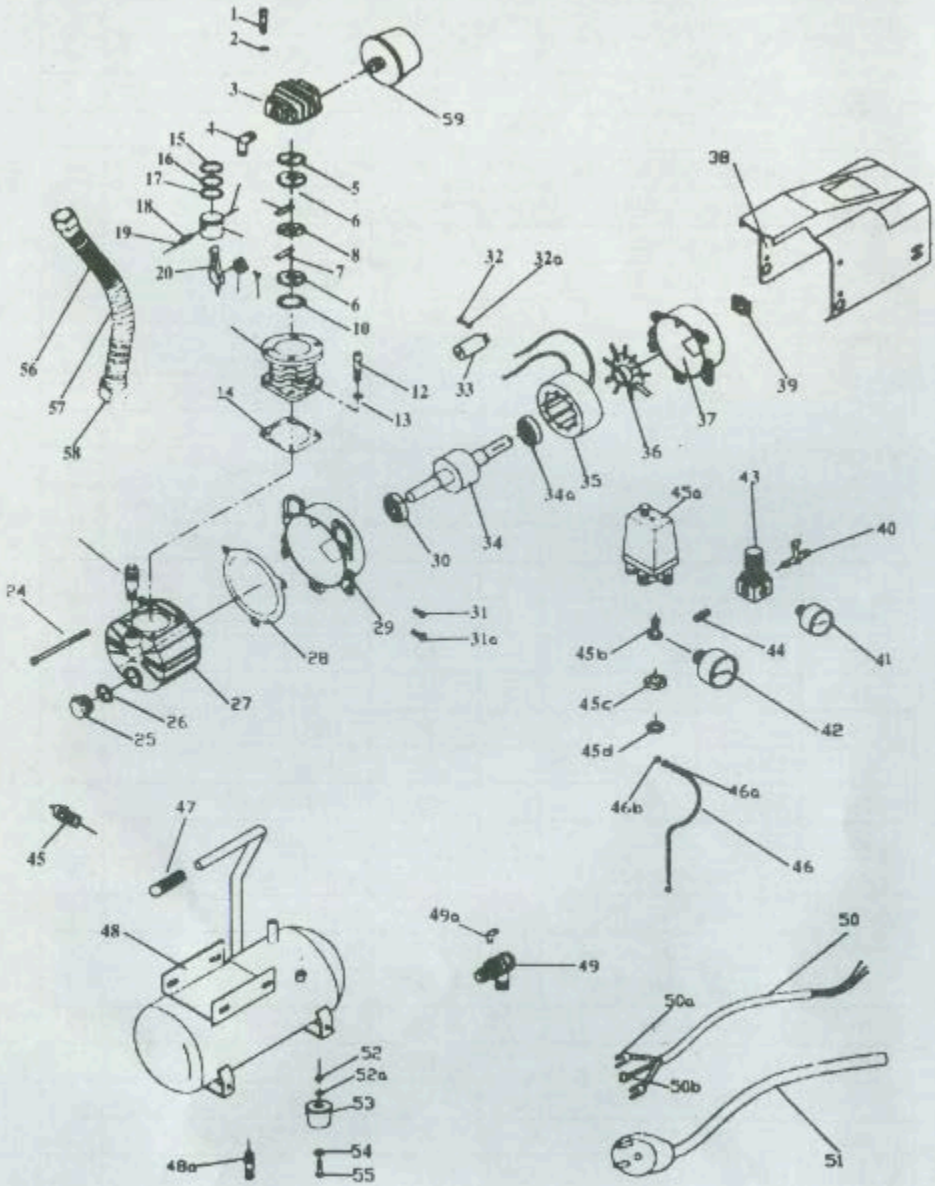
COMPRESSOR SPARE PARTS

REF.NBR.	DESCRIPTION	Q.TY	REF.NBR.	DESCRIPTION	Q.TY
1	CYLINDER	1	33	WASHER	4
2	PISTON	1	34	SCREW NUT	1
3	GASKET	2	35	SAFETY VALVE	1
4	VALVE ASSEMBLY	1	36	PRESSURE SWITCH	1
5	CYLINDER HEAD	1	37	CONNECT	1
6	ALLENPAN SCREW	4	38	REGULATOR	1
7	CAPACITANCE	1	39	AIR COCK	2
8	STATOR	1	40	UNLOADING SCREW	2
9	ROTATOR	1	41	UNLOADING	1
10	BEARING	2	42	PRESSURE GAUGE	1
11	SHAFT SEAL	1	43	PRESSURE GAUGE	1
12	REAR CAP	1	44	CHECK VALVE	1
13	FAN	1	45	UNLOADING ELB OW	1
14	SCREW	2	46	ELECTRIC CABLE	1
15	CONVOY	1	47	CABLE CONNECTOR(Y)	4
16	CRANK SHAFT	1	48	CABLE CONNECTOR(O)	2
17	WRIST PIN	1	49	PLUG	1
18	CIRCLIPS	2	50	HANDLE	1
19	BREATHER	1	51	TANK	1
20	CRANK CASE COVER	1	52	DRAIN COCK	1
20a	BOLT	4	53	CUSHION FOOT	2
21	SHAFT SEAL	1	54	WASHER	2
22	OIL SIGHT GLASS	1	55	WASHER	2
23	CONNECTING ROD	1	56	SCREW	2
24	PISTON RING	1	57	BOLT	2
25	PISTON RING	1	58	WHEEL	2
26	PISTON RING	1	59	SCREW NUT	2
27	FILTER ELEMENT	1	60	EXHAUST PIPE	1
28	ELBOW EXHAUST	1	61	COOLER	
29	CRANKCASE	1	62	EXHAUST SCREW NUT	2
30	HEAD NUT	2			
31	SPRING WASHER	2			
32	BOLT	4			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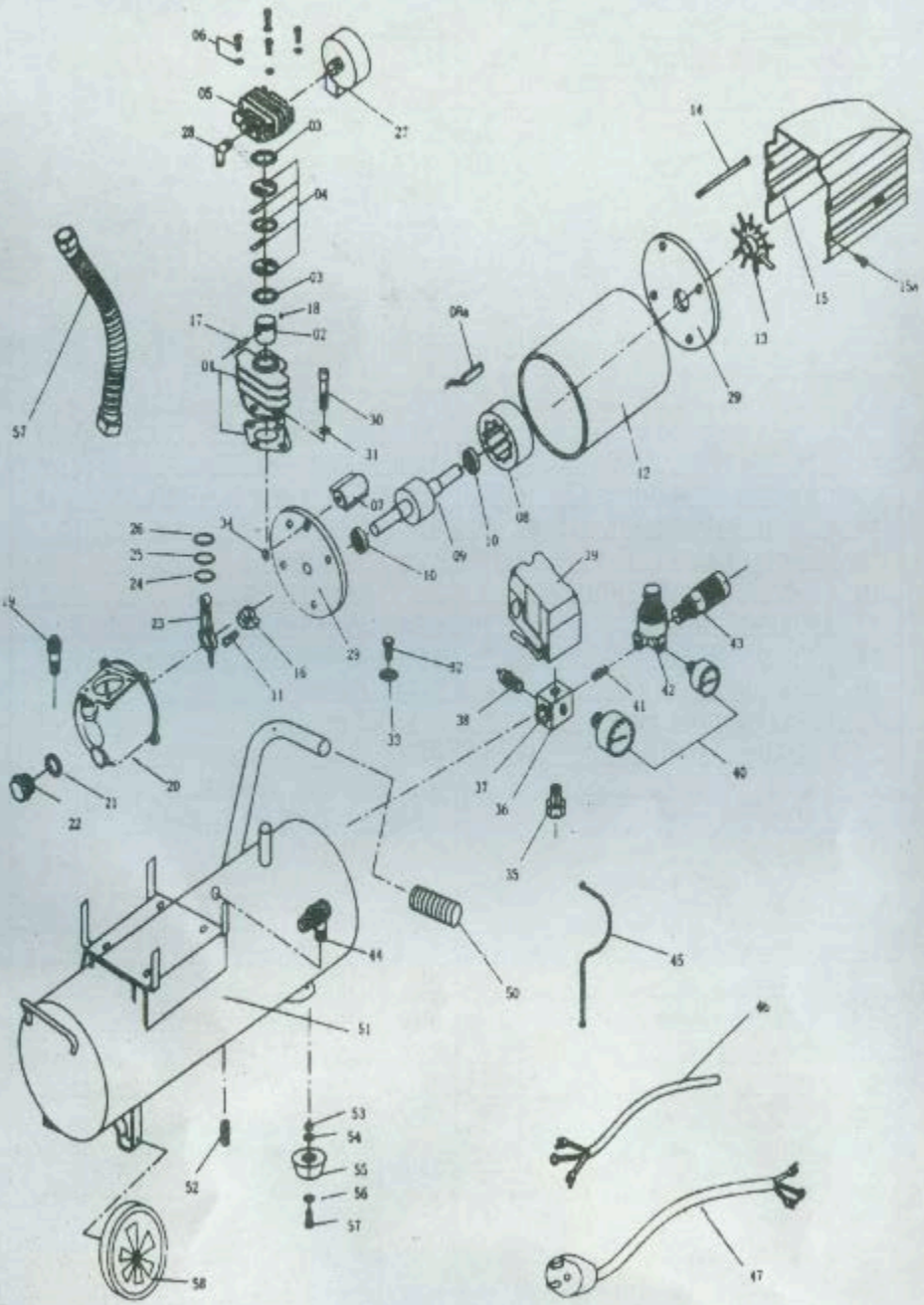
BSX10 COMPRESSOR SPARE PARTS

No.	DESCRIPTION	QTY	No.	DESCRIPTION	QTY
1	Head Bolt	4	35	Stator	1
2	Spring washer	4	36	Fan	1
3	cylinder Head	1	37	Bearing Cover	1
4	Exhaust Pipe	1	38	Convoy	1
5	Gasket	1	39	Circuit Breaker	1
6	Valve Assembly	2	40	Air Cock	1
7	Valve Patch	2	41	Pressure Gauge	1
8	Valve Plank Spacer	1	42	Pressure Gauge	1
9	Piston	1	43	Regulator	1
10	Gasket-cylinder	1	44	Connect	1
11	Cylinder	1	45	Safety Valve	1
12	Head Bolt	2	45a	Pressure Switch	1
13	Spring Washer	2	45b	Pressure Switch	1
14	Gasket-cylinder Crankcase	1	45c	Bolt	1
15	Compression Ring	1	45d	Washer	1
16	Compression Ring	1	46	Unloading	1
17	Piston Ring	1	46a	Washer	1
18	Piston Ring Set	1	46b	Unloading Screw	2
19	Circlips	2	47	Handle	1
20	Connecting Rod	1	48	Tank	1
21	Crank Shaft	1	48a	Drain Cock	1
22	Bolt	1	49	Check Valve	1
23	Oil Fill	1	49a	Unloading Elbow	1
24	Bolt	3	50	Electric Cable	2
25	Oil Sight Glass	1	50a	Calbe Connector (Y)	4
26	O-Ring	1	50b	Cable Connector (O)	2
27	Crankcase	1	51	Plug	1
28	Gasket	1	52	Screw Nut	2
29	Crank Case Cover	1	52a	Spring Washer	2
30	Bearing	2	53	Cushion Foot	2
31	Bolt	4	54	Washer	2
31a	Bolt	4	55	Screw	2
32	Bolt	4	56	Exhaust Pipe	1
32a	Screw Nut	2	57	Cooler	
33	Capacitance	2	58	Exhaust Screw Nut	2
34	Rotator	1	59	Air Filt Kit	1
34a	Bearing	2			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AIR COMPRESSOR SPARE PARTS

REF.NBR.	DESCRIPTION	Q.TY	REF.NBR.	DESCRIPTION	Q.TY
1	CYLINDER	1	32	BOLT	4
2	PISTON	1	33	WASHER	4
3	GASKET	2	34	SCREW NUT	1
4	VALVE ASSEMBLY	1	35	NUT	1
5	CYLINDER HEAD	1	36	CONNECT	1
6	ALLENPAN SCREW	4	37	CONNECT	1
7	CAPACITANCE	1	38	SATETY VALVE	1
8	STATOR	1	39	PRESSURE SWITCH	2
9	ROTATOR	1	40	PRESSURE GAUGE	2
10	BEARING	2	41	CONNECT	1
11	SHAFT SEAT	1	42	REGULATOR	1
12	REAR CAP	1	43	QUICK CONNECT	1
13	FAN	1	44	CHECK VALVE	1
14	SCREW	2	45	UNLOADING ELBOW	1
15	CONVOY	1	46	ELECTRIC CABLE	1
15a	SCREW	1	47	CABLE	4
16	CRANK SHAFT	1	48		
17	WRIST PIN	1	49		
18	CIRCLIPS	2	50	HANDLE	1
19	BREATHER	1	51	TANK	1
20	CRANK CASE	1	52	DRAIN COCK	1
20a	BOLT	4	53	CUSHION FOOT	2
21	SHAFT SEAL	1	54	WASHIER	2
22	OIL SIGHT GLASS	1	55	WASHIER	2
23	CONNECTING ROD	1	56	SCREW	2
24	PISTON RING	1	57	EXHAUST PIPE	1
25	PISTON RING	1	58	WHEEL	2
26	PISTON RING	1			
27	FILTER ELEMENT	1			
28	ELBOW EXHAUST	1			
29/29a	CRANKCASE COVER	1			
30	HEAD NUT	2			
31	SPRING WASHER	2			

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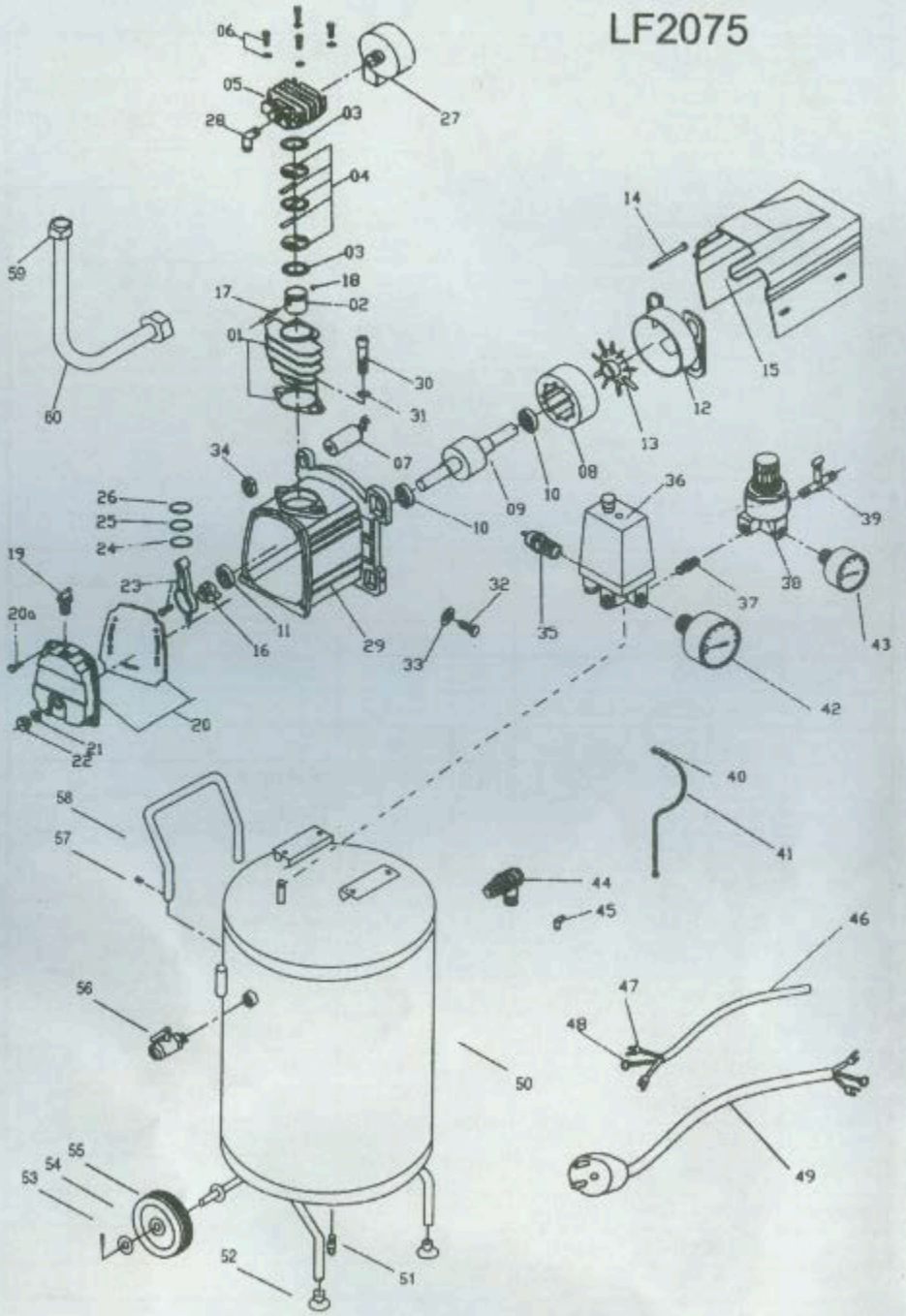
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COMPRESSOR SPARE PARTS

REF.NBR.	DESCRIPTION	Q.TY	REF.NBR.	DESCRIPTION	Q.TY
1	CYLINDER	1	33	WASHER	4
2	PISTON	1	34	SCREW NUT	1
3	GASKET	2	35	SAFETY VALVE	1
4	VALVE ASSEMBLY	1	36	PRESSURE SWITCH	1
5	CYLINDER HEAD	1	37	CONNECT	1
6	ALLENPAN SCREW	4	38	REGULATOR	1
7	CAPACITANCE	1	39	AIR COCK	2
8	STATOR	1	40	UNLOADING SCREW	2
9	ROTATOR	1	41	UNLOADING	1
10	BEARING	2	42	PRESSURE GAUGE	1
11	SHAFT SEAL	1	43	PRESSURE GAUGE	1
12	REAR CAP	1	44	CHECK VALVE	1
13	FAN	1	45	UNLOADING ELBOW	1
14	SCREW	2	46	ELECTRIC CABLE	1
15	CONVOY	1	47	CABLE CONNECTOR(Y)	4
16	CRANK SHAFT	1	48	CABLE CONNECTOR(O)	2
17	WRIST PIN	1	49	PLUG	1
18	CIRCLIPS	2	50	TANK	1
19	BREATHER	1	51	DRAIN LOCK	1
20	CRANK CASE COVER	1	52	FOOT GASTER	1
20a	BOLT	4	53	WHEEL PIN	2
21	SHAFT SEAL	1	54	FLAT GASTER	2
22	OIL SIGHT GLASS	1	55	WHEEL	2
23	CONNECTING ROD	1	56	AIRVALVE	2
24	PISTON RING	1	57	BOLT	2
25	PISTON RING	1	58	HANDLE	2
26	PISTON RING	1	59	NUT	1
27	FILTER ELEMENT	1	60	EXHAUST PIPE	
28	ELBOW EXHAUST	1			
29	CRANKCASE	1			
30	HEAD NUT	2			
31	SPRING WASHER	2			
32	BOLT	4			

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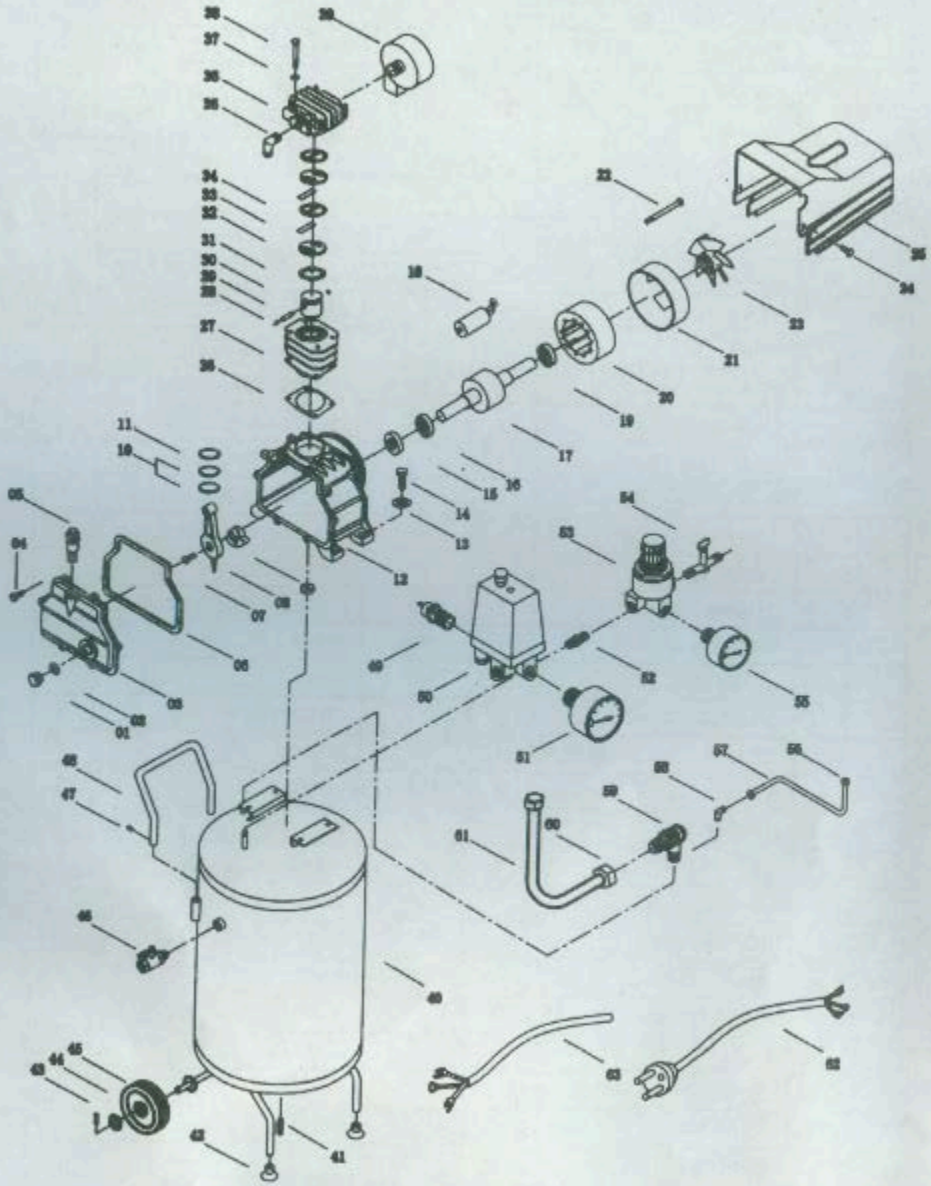
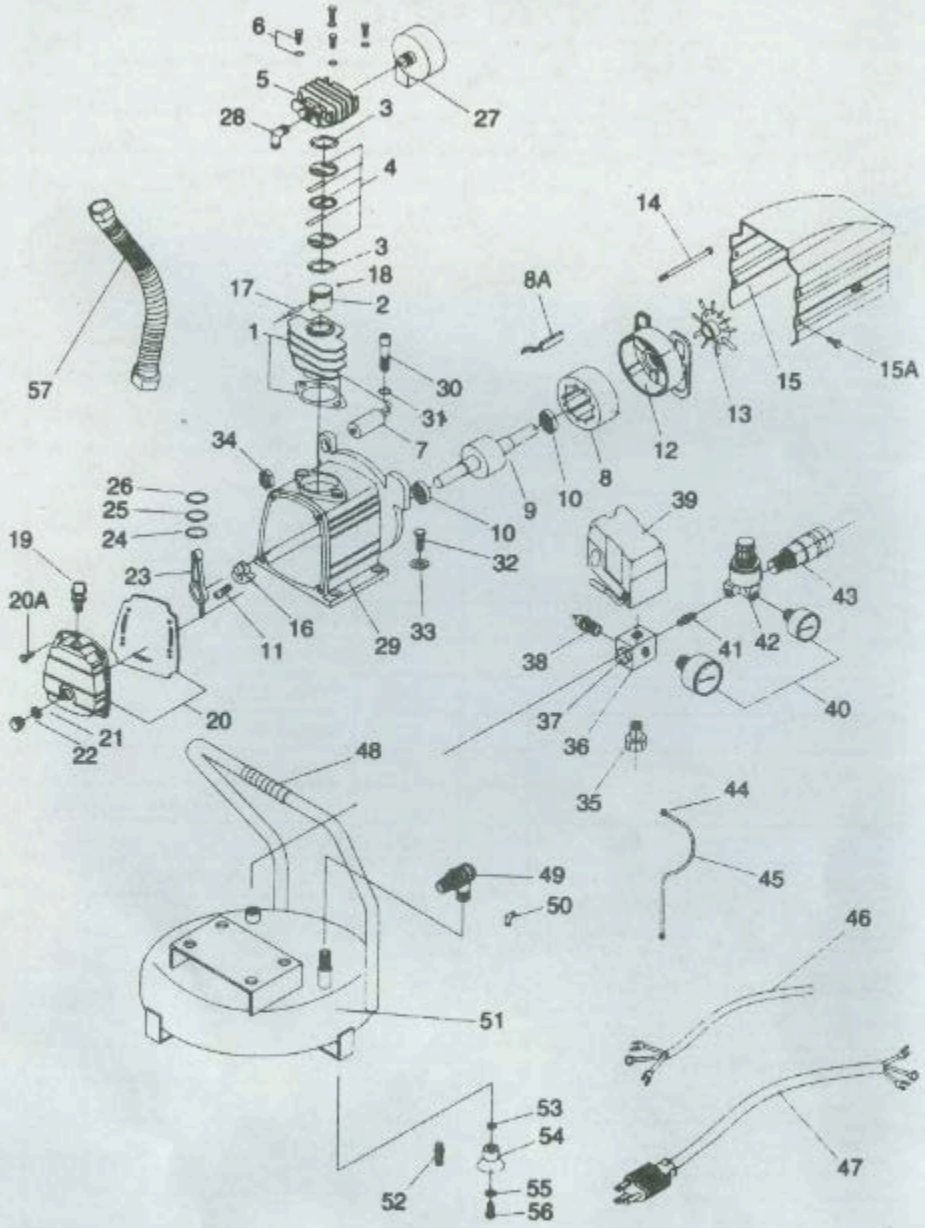


PARTS LIST					
01	OIL SIGHT GLASS		35	VALVE PATCH	
02	SHAFT SEAL		36	ALUMINIUM GASKET	
03	CRANK CASE COVER		37	ELBOW	
04	BOLT		38	CYLINDER HEAD	
05	BREATHER		39	SPRING GASKET	
06	GASKET		40	TANK	
07	BOLT		41	DRAIN COCK	
08	CONNECTING ROD		42	FOOT GASTER	
09	CRANK SHAFT		43	WHEEL PIN	
10	CRANK GASKET		44	FLAT GASTER	
11	COMPRESSOR GASKET		45	WHEEL	
12	CRANK CASE		46	AIR VALVE	
13	GASKET		47	BOLT	
14	BOLT		48	HANDLE	
15	OIL SEAL		49	SAFETY VALVE	
16	BEARING		50	PRESSURE SWITCH	
17	ROTATOR		51	PRESSURE GAUGE	
18	CAPACITOR		52	CONNECTOR	
19	BEARING		53	REGULATOR	
20	STATOR		54	CHECK VALVE	
21	REAR CAP		55	PRESSURE GAUGE	
22	BOLT		56	NUT	
23	FAN		57	OVERFLOW PIPE	
24	SCREW		58	ELBOW GASKET	
25	CONVOY		59	NUT	
26	CYLINDER GASKET		60	NUT	
27	CYLINDER		61	EXHAUST PIPE	
28	SPRING GASKET		62	PLUG	
29	TRUCKLE		63	ELECTRIC CABLE	
30	SQUARING SPACER				
31	PISTON PIN				
32	PISTON				
33	VALVE PATCH				
34	VALVE ASSEMBLE				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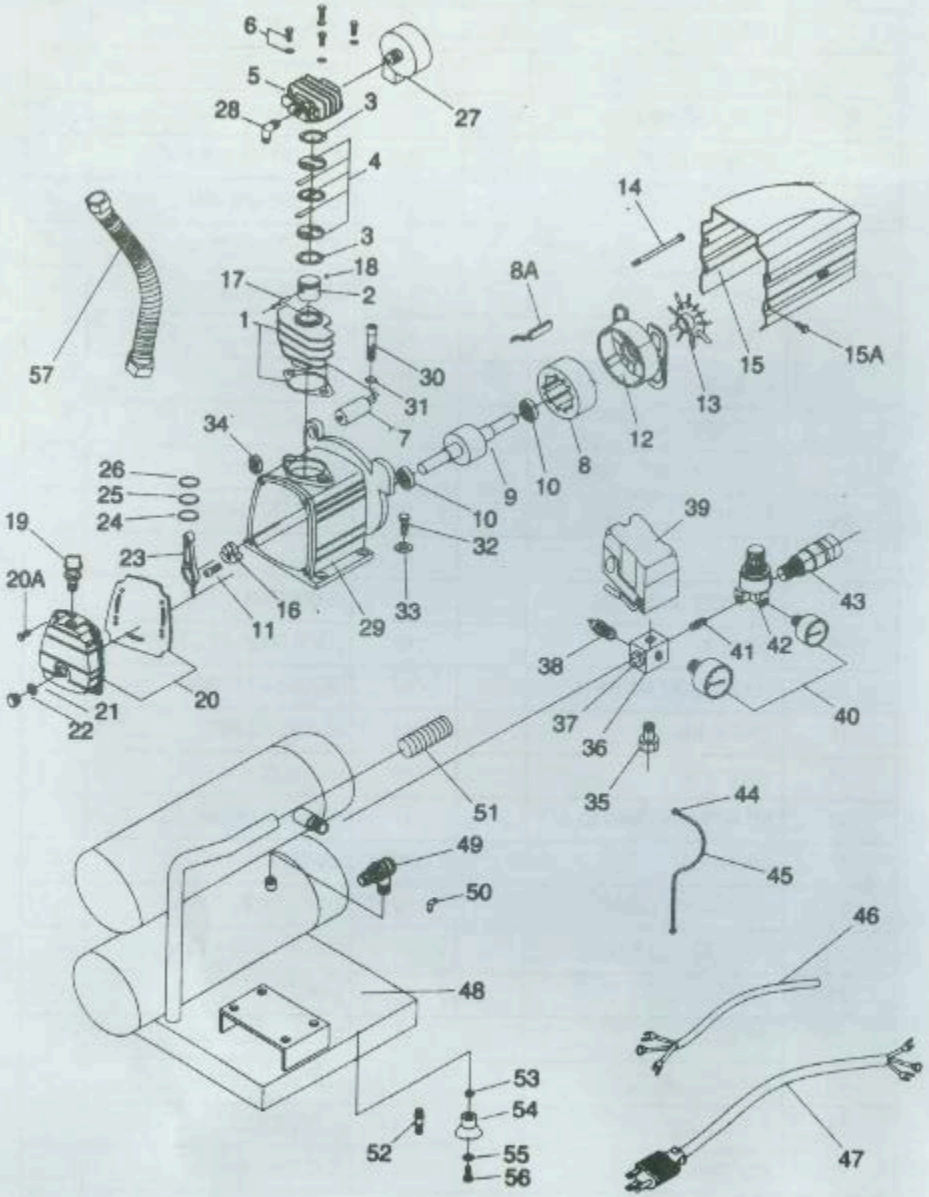
1	CYLINDER & GASKET		28	ELBOW 90° 3/8 NPT X 3/4-16UNF	
2	PISTON		29	CRANKCASE	
3	GASKET		30	CAP SCREW M8 1.25 X 25	
4	VALVE ASSEMBLY		31	LOCK WASHER 8MM	
5	CYLINDER HEAD		32	HEX BOLT M8- 1.25 X 35	
6	FLANGE BOLT M6-1 X 55		33	FLAT WASHER 8MM	
7	CAPACITOR 250VAC, 120MFD		34	HEX NUT M8-1.25	
8	STATOR		35	CONNECT	
8A	OVERLOAD PROTECTOR		36	MANIFOLD	
9	ROTATOR		37	THREADED PLUG	
10	BALL BEARING 6202		38	SAFETY VALVE	
11	CAP SCREW M8-1.25 X 22LH		39	PRESSURE SWITCH	
12	REAR CAP		40	PRESSURE GAUGE	
13	FAN		41	NIPPLE	
14	HEX BOLT M5- 8 X 115		42	REGULATOR	
15	CONVOY		43	QUICK COUPLER 1/4 NPT	
15A	FLANGE BOLT M5- 8 X 15		44	UNLOADING SCREW	
16	CRANK SHAFT		45	UNLOADING PIPE	
17	WRIST PIN		46	MOTOR CORD	
18	INT RETAINING RING 12MM		47	POWER CORD W/PLUG	
19	BREATHER		48	HANDLE	
20	CRANK CASE COVER		49	CHECK VALVE	
20A	HEX BOLT M6-1 X 18		50	ELBOW 90° 1/8 X 1/8 NPT	
21	SHAFT SEAL		51	TANK	
22	OIL SIGHT GLASS		52	DRAIN VALVE 14MM	
23	CONNECTING ROD		53	FLAT WASHER 8MM	
24	PISTON RING SET		54	RUBBER FOOT	
25	PISTON RING SET		55	FLAT WASHER 8MM	
26	PISTON RING SET		56	HEX BOLT M8-1.25 X 20	
27	FILTER ELEMENT		57	EXHAUST PIPE	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1	CYLINDER		28	ELBOW 90° 3/8 NPT X 3/4-16UNF	
2	PISTON		29	CRANKCASE	
3	GASKET		30	CAP SCREW M8 1.25 X 25	
4	VALVE ASSEMBLY		31	LOCK WASHER 8MM	
5	CYLINDER HEAD		32	HEX BOLT M8-1.25 X 35	
6	FLANGE BOLT M6-1 X 55		33	FLAT WASHER 8MM	
7	CAPACITOR 250VAC. 120MFD		34	HEX NUT M8-1.25	
8	STATOR		35	CONNECT	
8A	OVERLOAD PROTECTOR		36	MANIFOLD	
9	ROTATOR		37	THREADED PLUG	
10	BALL BEARING 6202		38	SAFETY VALVE	
11	CAP SCREW M8-1.25 X 22LH		39	PRESSURE SWITCH	
12	REAR CAP		40	PRESSURE GAUGE	
13	FAN		41	NIPPLE	
14	HEX BOLT M5- 8 X 115		42	REGULATOR	
15	CONVOY		43	QUICK COUPLER 1/4 NPT	
15A	FLANGE BOLT M5- 8 X 15		44	UNLOADING SCREW	
16	CRANK SHAFT		45	UNLOADING PIPE	
17	WRIST PIN		46	MOTOR CORD	
18	INT RETAINING RING 12MM		47	POWER CORD W/PLUG	
19	BREATHER		48	TANK	
20	CRANK CASE COVER		49	CHECK VALVE	
20A	HEX BOLT M6-1 X 16		50	ELBOW 90° 1/8 X 1/8 NPT	
21	SHAFT SEAL		51	HANDLE	
22	OIL SIGHT GLASS		52	DRAIN VALVE 14MM	
23	CONNECTING ROD		53	FLAT WASHER 8MM	
24	PISTON RING SET		54	RUBBER FOOT	
25	PISTON RING SET		55	FLAT WASHER 8MM	
26	PISTON RING SET		56	HEX BOLT M8-1.25 X 20	
27	FILTER ELEMENT		57	EXHAUST PIPE	