

PARTS MANUAL



Doosan Infracore
Portable Power

VHP30RMH-OPEN (A63)
VHP30RMH-CLOSED (A64)
VHP40RMH-OPEN (A65)
VHP40RHM-CLOSED (A66)

COMPRESSOR MODULE MODELS



This manual contains important safety information.

Do not destroy this manual.

This manual must be available to the personnel who operate and maintain this machine.

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Book: 23097140 (5-09) Rev C
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Section A - Parts Ordering

GENERAL

This publication, which contains an illustrated parts breakdown, has been prepared as an aid in locating those parts which may be required in the maintenance of the unit. Always insist on genuine Ingersoll Rand branded parts for your unit.

Doosan Infracore Portable Power can bear no responsibility for injury or damages resulting directly from the use of non-approved repair parts.

Portable Power service facilities and Ingersoll Rand parts are available worldwide. Consult local yellow pages or visit: www.doosanportablepower.com.

Special order parts may not be included in this manual. Contact the Portable Power Parts Department with the unit serial number for assistance with these special parts.

Description

The illustrated parts breakdown illustrates and lists the various assemblies, subassemblies and detailed parts which make up this particular machine. This covers the standard models and the more popular options that are available.

In referring to the rear, the front or to either side of the unit, always consider the drawbar end of the unit as the front.

Standing at the rear of the unit facing the drawbar (front) will determine the right and left sides.

Fasteners

Both SAE/inch and ISO/metric hardware have been used in the design and assembly of these units. In the disassembly and reassembly of parts, extreme care must be taken to avoid damaging threads by the use of wrong fasteners.

How To Order

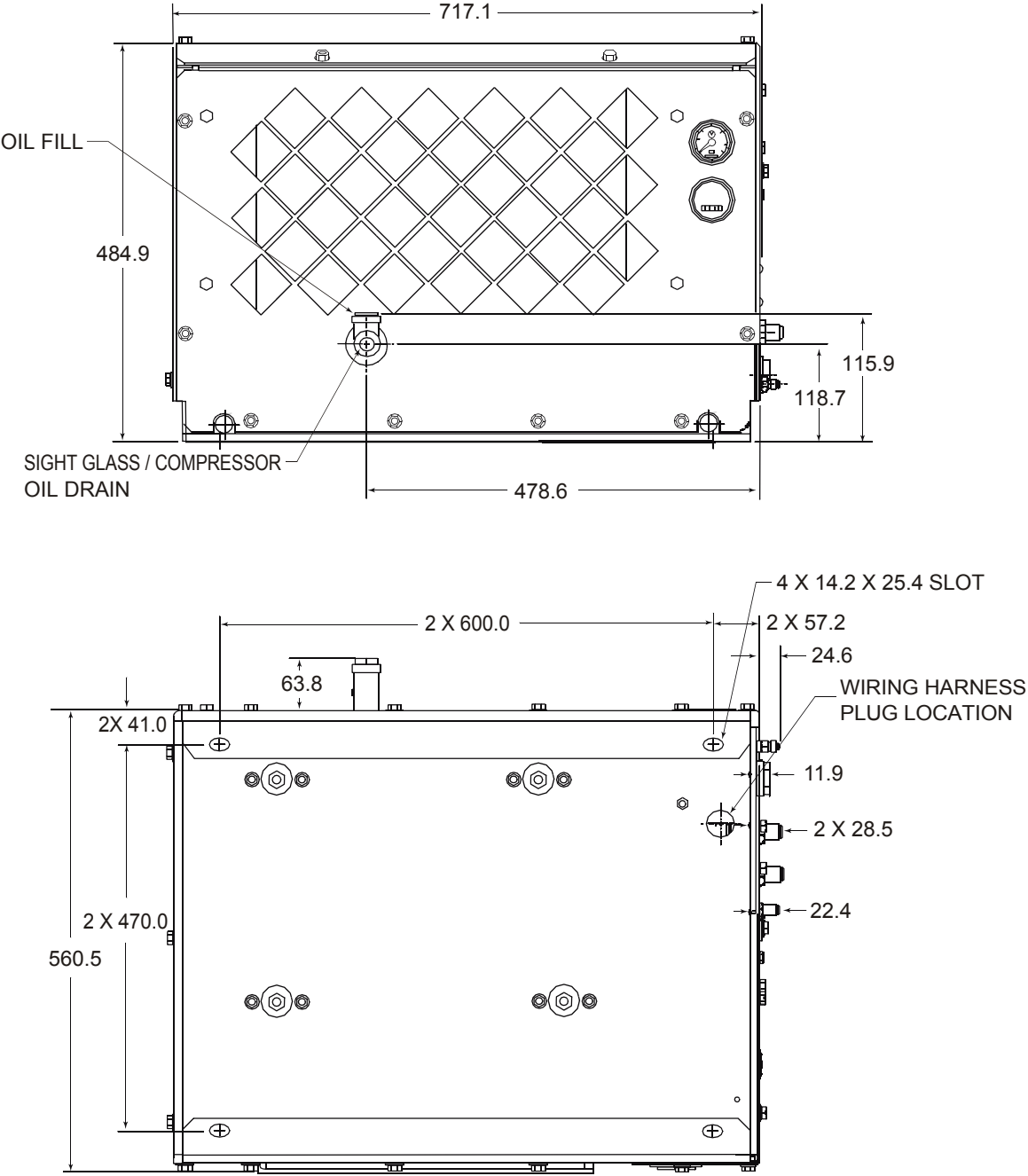
Always specify the model and serial number of the unit.

Specify the part number and description.



Parts List

General Arrangement



23097140_012_03/07_A

General Arrangement

REMOVABLE ACCESS
COVER FOR AIR CLEANER

.75-16 JIC
HYDRAULIC SUPPLY

.75-16 JIC
HYDRAULIC RETURN

.50" NPT
AIR DISCHARGE

.40-22 JIC
PRESSURE
FEEDBACK

80.3

69.2

43.3

81.4

147.5

198.3

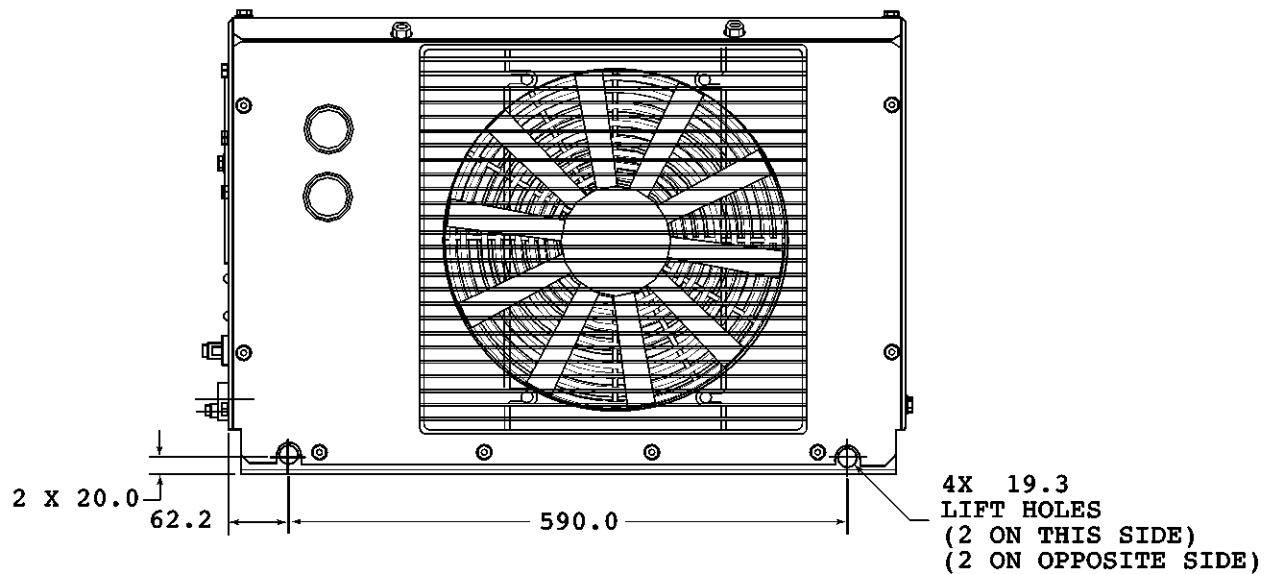
242.8

180.9

4 X 133.0

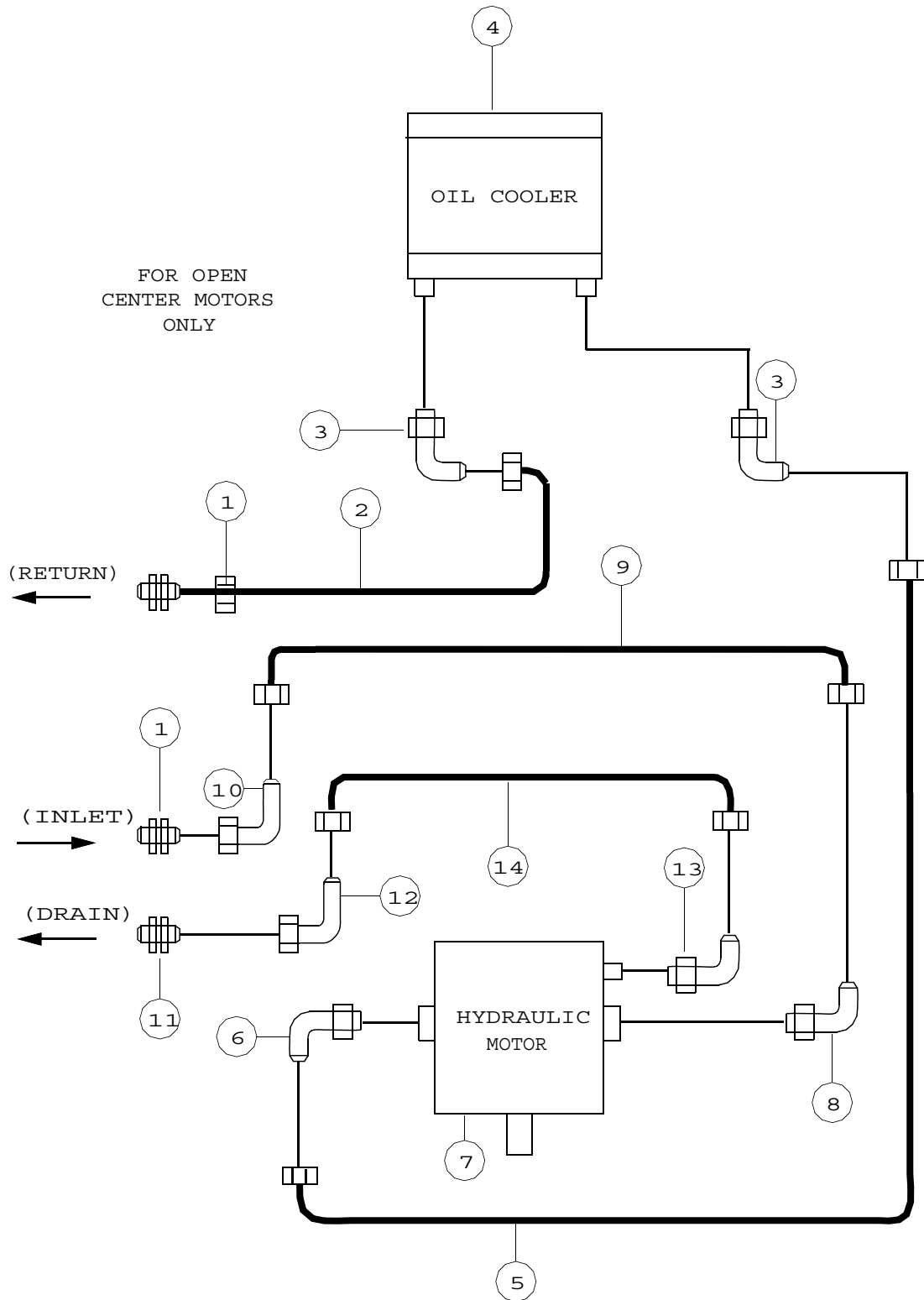
.44-20 JIC
HYD MOTOR
LOAD SENSE
(FOR CLOSED
CENTER MOTORS ONLY)

.40-22 JIC
HYD MOTOR
CASE DRAIN



23097140_013_03/07_A

Piping Assembly - Open Center Motors Including VHP40, Prior
to S/N: 408714

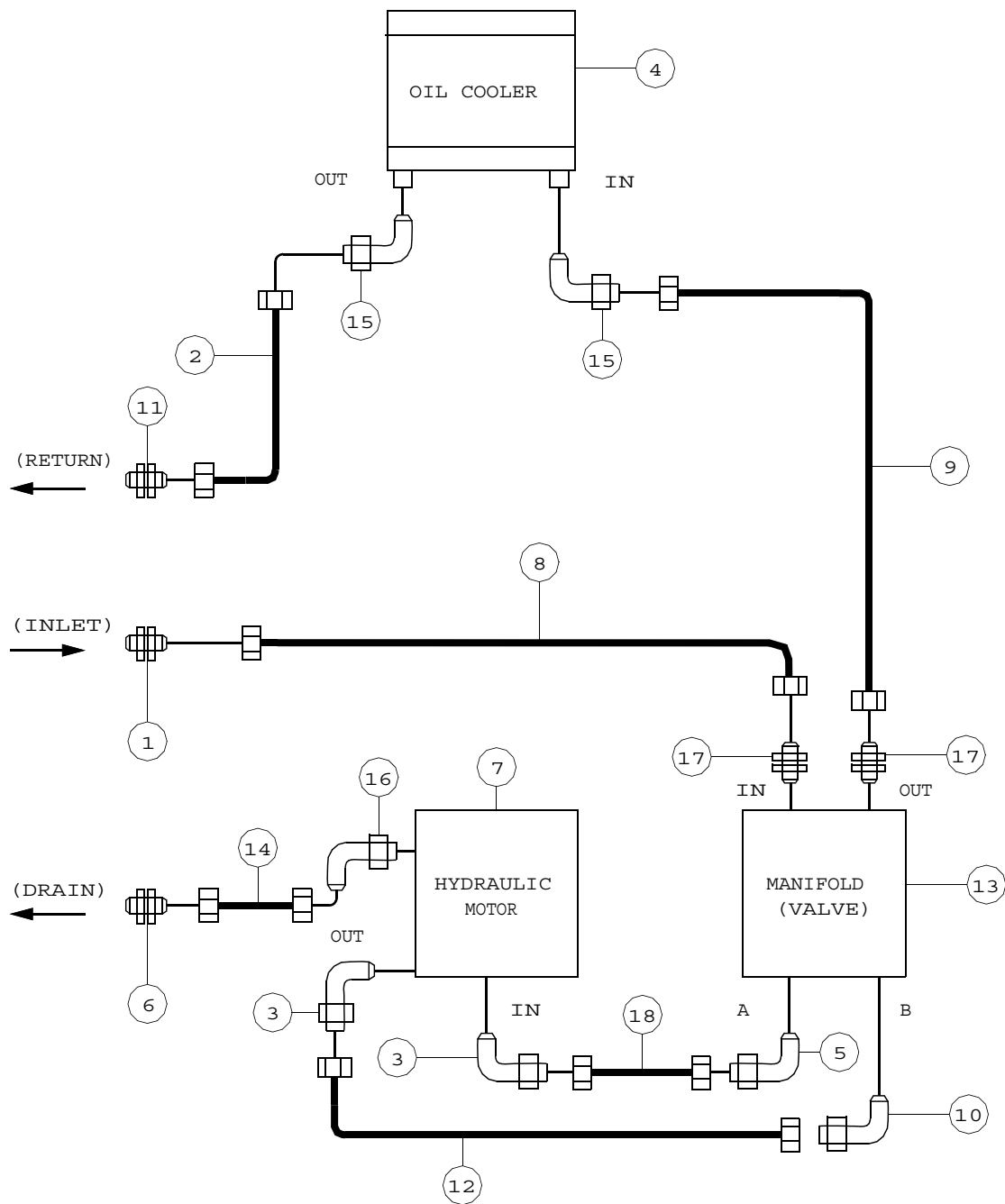


23097140_014_08/08_B

Piping Assembly - Open Center Motors Including VHP40, Prior
to S/N: 408714

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	35285451	Conn		.50 Tube X .50 Bulkhead
2	22393383	Hose, Assembly		8 X 18.00"
3	39171962	Elbow		90 X .75 Tube X 1.31 SAE
4A	22357214	Cooler		VHP30
4B	22357222	Cooler		VHP40
5	22393375	Hose, Assembly		8 X 27.00"
6	35294750	Elbow		90 X .75 Tube X 1.06 SAE
7A	22369607	Motor		Hyd VHP30 Open Center
7B	22396873	Motor		Hyd VHP30 Closed Center
7C	22369615	Motor		Hyd VHP40 Open Center
7D	22396865	Motor		Hyd VHP40 Closed Center
8	35286442	Elbow		90 X .50 Tube X .88 SAE
9	22393367	Hose, Assembly		8 X 15.00"
10	35287911	Elbow		90 X .50 Tube X .50 fem Tube SWL
11	95365151	Conn		.25 Tube X .25 Bulkhead
12	95938049	Elbow		90 X .25 Tube X .25 fem Tube SWL
13	35279876	Elbow		90 X .25 Tube X .44 SAE

Piping Assembly - Open Center Motors VHP40, After to S/N:
408714

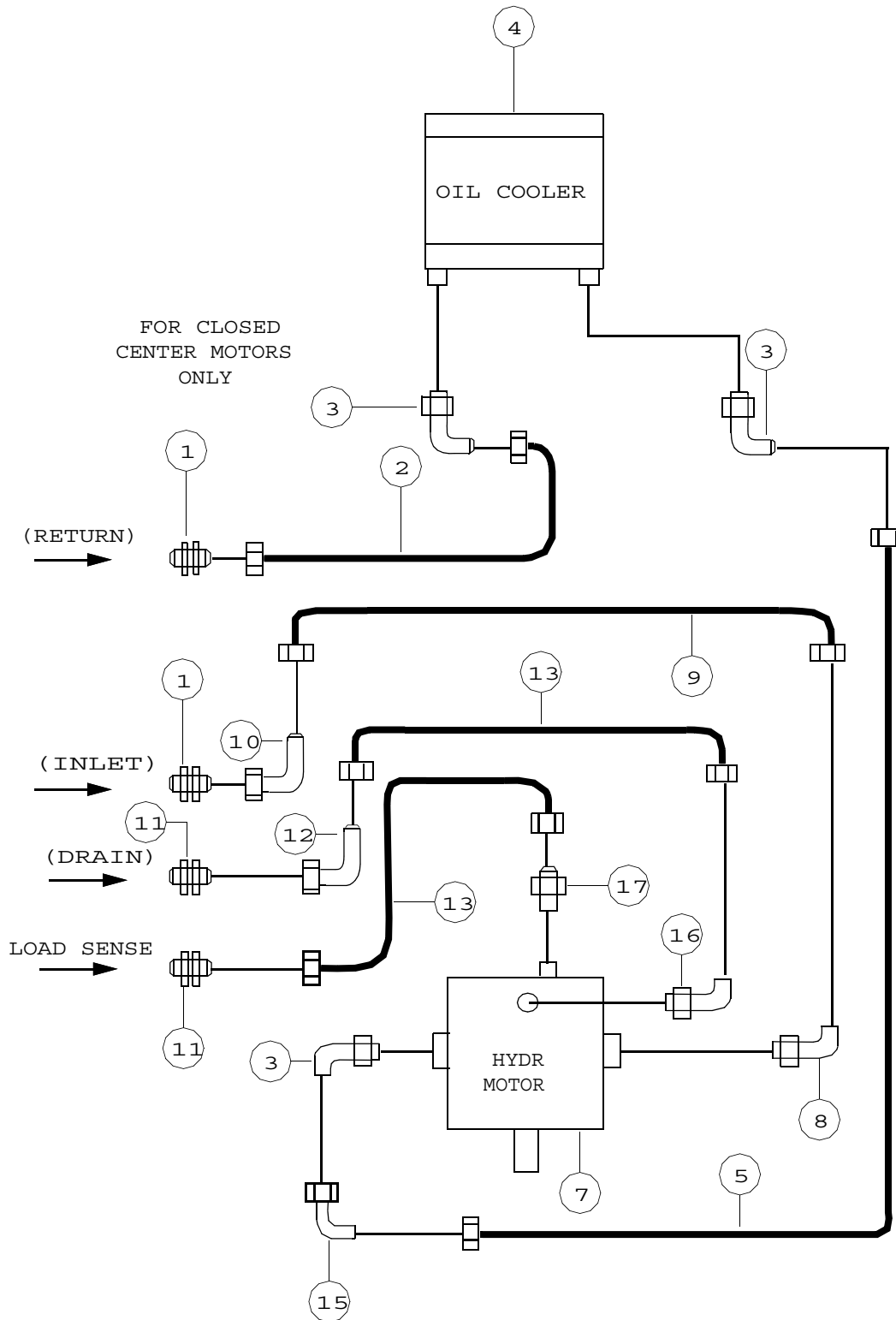


23097140_014_08/08_B

Piping Assembly - Open Center Motors VHP40, After to S/N:
408714

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	35285451	Conn	1	.50 Tube X .50 Bulkhead
2	22393383	Hose, Assembly	1	8 X 18.00"
3	35286442	Elbow	2	90 X .875 X -8 JIC
4	22357222	Cooler	1	VHP40
5	35279801	Elbow	1	90 X .75 X -8 JICC
6	95981429	Conn	1	-4 JIC X .5625 Bulkhead
7	23134455	Motor	1	Hyd VHP40 Open Center
8	46496675	Hose	1	8 X 35.5"
9	46496683	Hose	1	8 X 12.75"
10	35287911	Elbow	1	90 X .50 Tube X .50 fem Tube SWL
11	95365151	Conn	1	.25 Tube X .25 Bulkhead
12	46496667	Hose	1	8 - 37"
13	46493060	Mainfold (Valve)	1	
14	22393391	Hose	1	4 X 14"
15	39171962	Elbow	2	90 X .75" Tube X 1.31 SAE
16	35279876	Elbow	1	90 X .25 Tube X .44 SAE
17	35288166	Fitting	2	
18	46496659	Hose	1	8 X 28.5"

Piping Assembly - Closed Center Motors

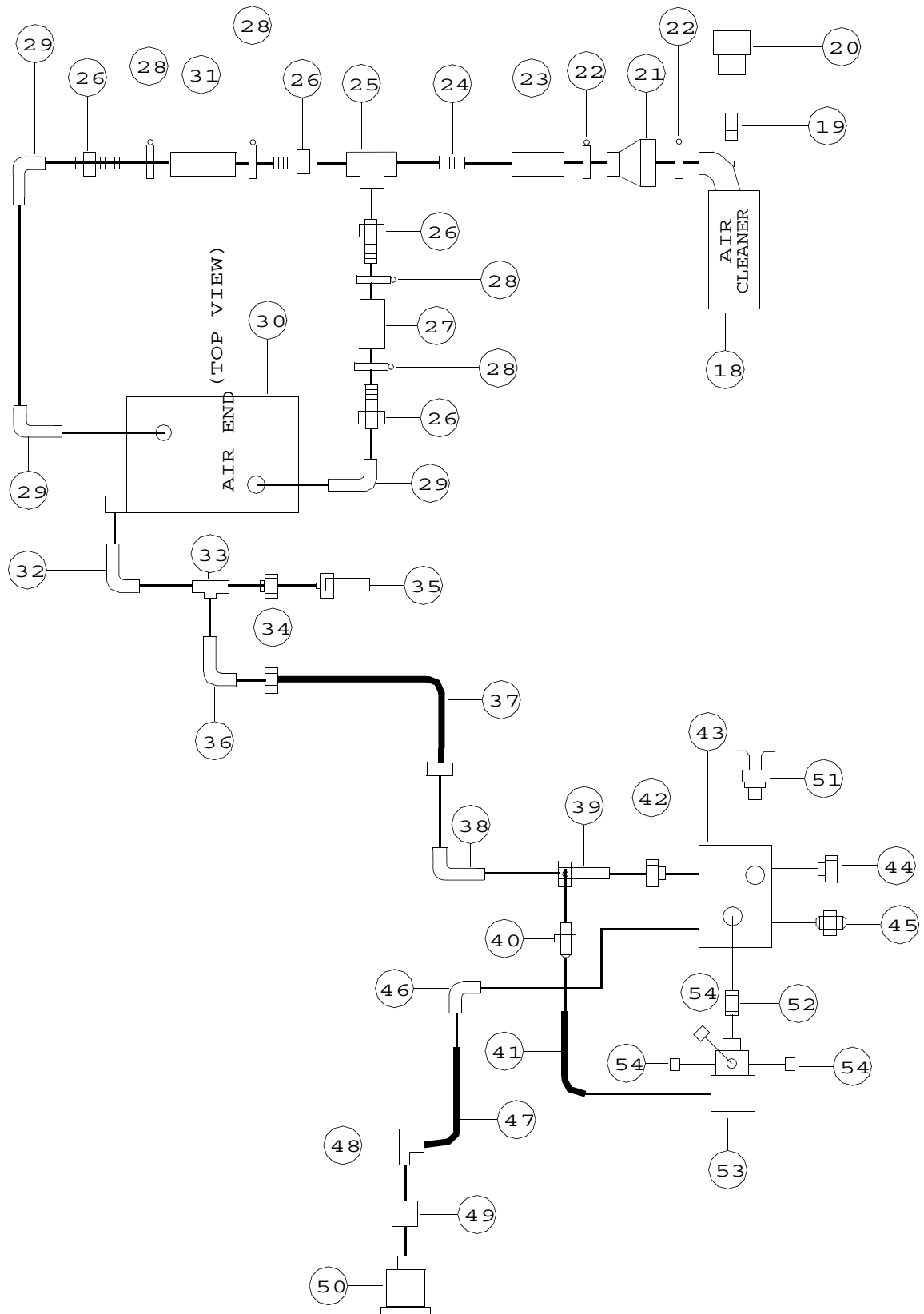


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Piping Assembly - Closed Center Motors

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	35285451	Conn		.50 Tube X .50 Bulkhead
2	22393383	Hose, Assembly		8 X 18.00"
3	39171962	Elbow		90 X .75 Tube X 1.31 SAE
4A	22357214	Cooler		VHP30
4B	22357222	Cooler		VHP40
5	22393375	Hose, Assembly		8 X 27.00"
6	35294750	Elbow		90 X .75 Tube X 1.06 SAE
7A	22369607	Motor		Hyd VHP30 Open Center
7B	22396873	Motor		Hyd VHP30 Closed Center
7C	22369615	Motor		Hyd VHP40 Open Center
7D	22396865	Motor		Hyd VHP40 Closed Center
8	35286442	Elbow		90 X .50 Tube X .88 SAE
9	22393367	Hose, Assembly		8 X 15.00"
10	35287911	Elbow		90 X .50 Tube X .50 fem Tube SWL
11	95365151	Conn		.25 Tube X .25 Bulkhead
12	95938049	Elbow		90 X .25 Tube X .25 fem Tube SWL
13	22393391	Hose, Assembly		4 X 14.00"
14	35279876	Elbow		90 X .25 Tube X .44 SAE
15	35301506	Elbow		90 X .75 Tube X .75 fem Tube SWL
16	95985933	Elbow		90 X .56 Tube X .35 Tube
17	95981429	Conn		.56 Tube X .25 Tube

Piping Assembly

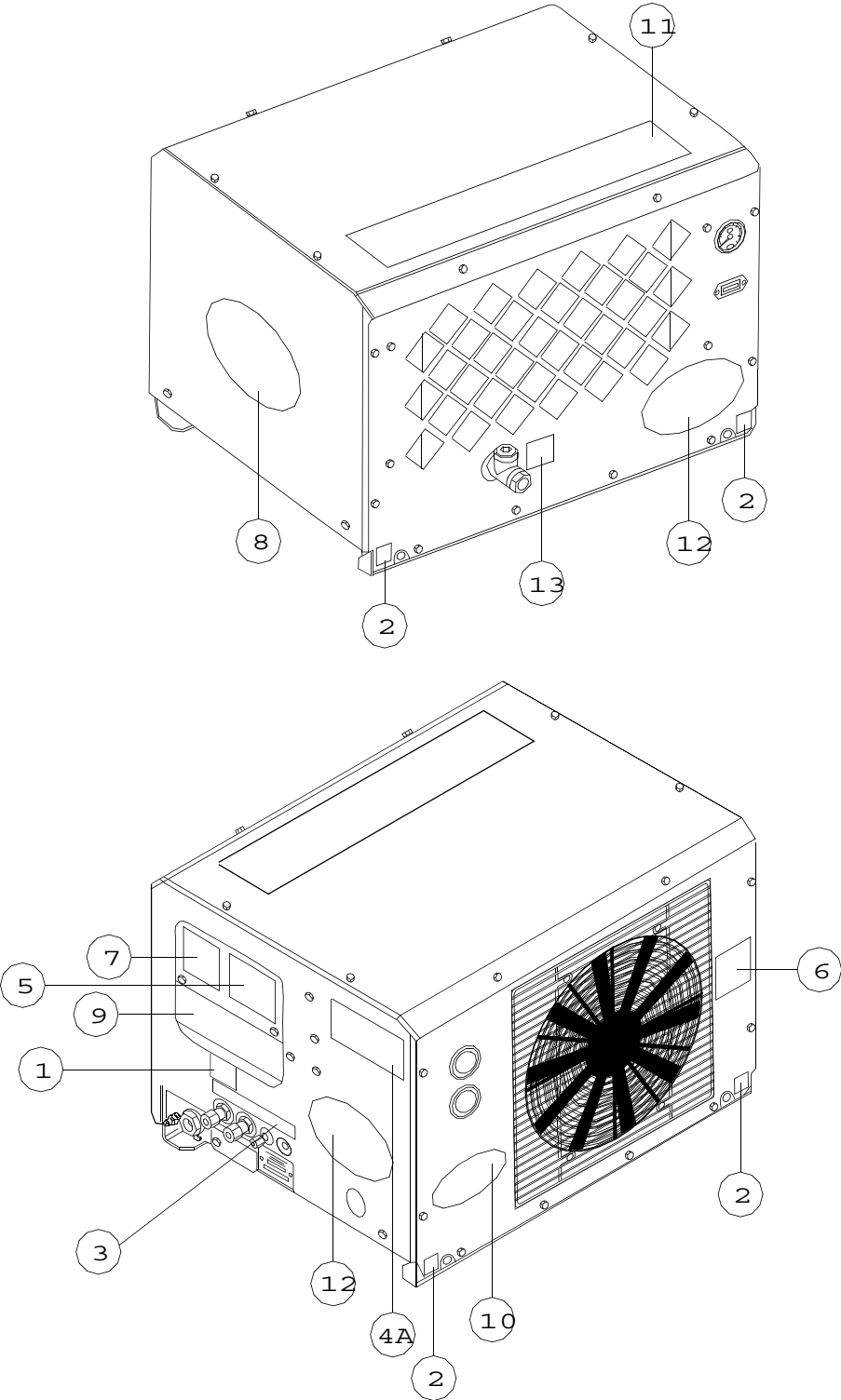


23097140_018_08/08_B

Piping Assembly

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
18	22173561	Air Cleaner		4.5"
19	95946059	Nipple		.13 NPT X 1.50"
20	39124722	Restiction, Indicator		
21	22381750	Reducer, Hose		1.75 to 1.50
22	35221662	Clamp, Hose		1.312 dia
23	95951414	Coupling		1.00 NPT X 1.94"
24	95946117	Nipple		1.00 NPT X 1.50"
25	9595428	Tee		1.00 fem NPT
26	24909244	Nipple		1.00 NPT X 1.0 BARB
27	22394753	Hose, Air Inlet		5.375"
28	95235131	Clamp, Hose		
29	95928180	Elbow, Street		1.00 fem NPT X 1.00 NPT
30	16545006	Airend, Bare		TS10
31	22394746	Hose, Air Inlet		14.75"
32	95928164	Elbow, Street		.50 fem NPT X .50 NPT
33	95944708	Tee, Street		.50 fem NPT X .50 NPT
34	95944567	Bushing, Reducer		.50 NPT X .25 fem NPT
35	32174286	Valve, Safety		325 PSIG
36	95380077	Elbow, Reducing Street		.50 NPT X .75 FNPT
37	22392757	Hose, Assy Steel Braided		
38	95928172	Elbow, Street		.75 fem NPT X .75 NPT
39	22222095	Valve, Check		.75 fem NPT X 1.0 NPT
40	95011300	Conn		.25 Flareless Tube
41	22418453	Tube, Presure Feedback		
42	95937439	Bushing, Reducer		1.25 NPT X 1.00 fem NPT
43	22365712	Manifold, Discharge		
44	95940912	Bushing, Reducer		1.25 NPT X .50 FNPT
45	35283472	Conn		.25 Tube X .25 NPT
46	35369354	Elbow		90 X .25 NPT X .25 NPT
47	35356484	Tubing		.375 OD Synflex
48	35370386	Elbow		.13 NPT X .13 NPT
49	95935599	Coupling		.13 NPT X .75"
50	36891216	Gauge, Pressure		
51	22390934	Switch		Temp 480° F (N-C)
52	95944567	Nipple		.25 NPT X 1.50"
53	56288764	Switch		Pressure, 175 PSI
54	95928230	Plug, Socket		.25 NPT

Decal Location

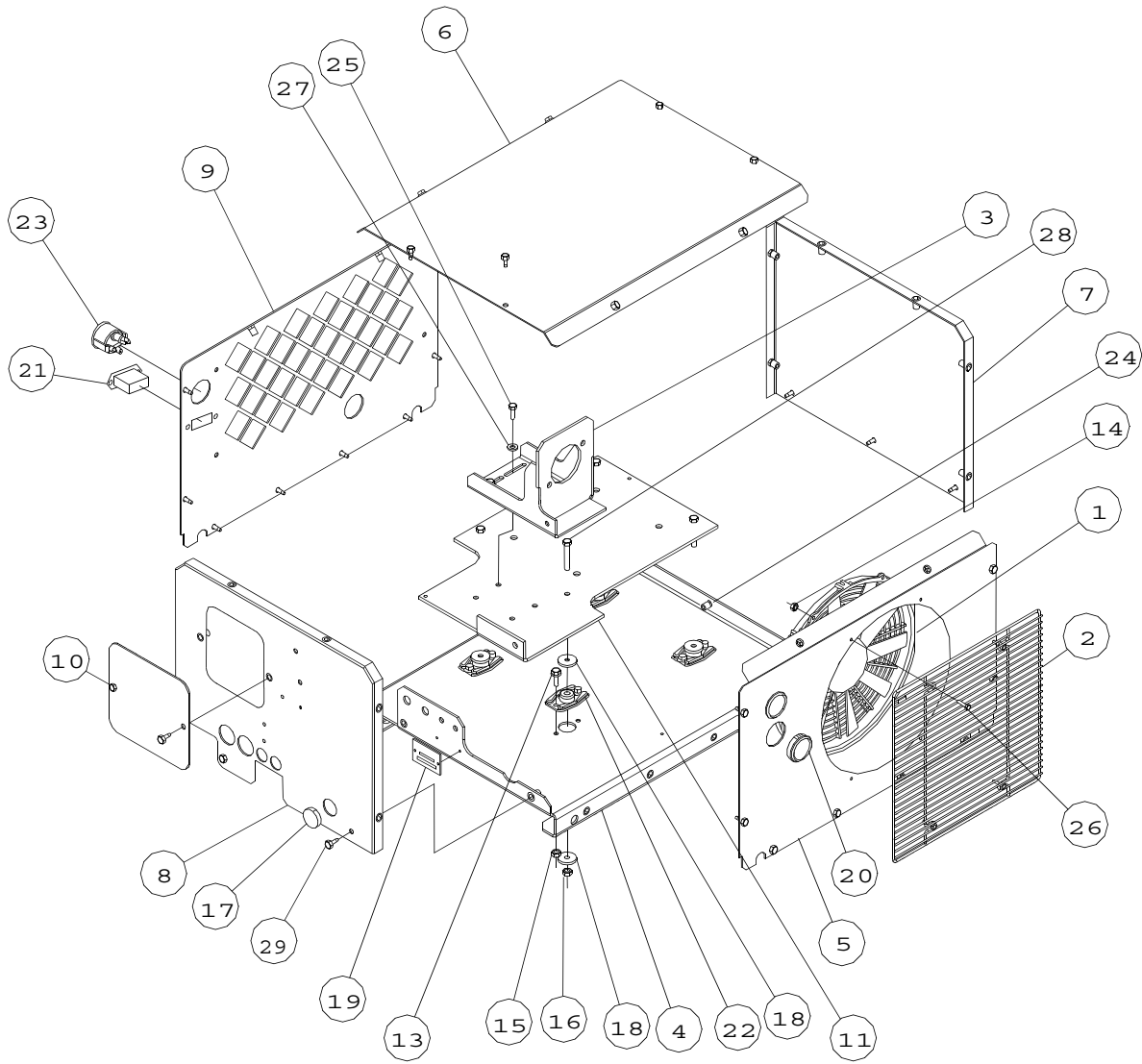


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Decal Location

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	22126734	Decal	1	Warning Hyd Motor Adaptor
2	22182315	Decal	4	ISO Lift Point
3	22422620	Decal	1	Hyd Supply Return
4	22406235	Decal	1	Gen Data 40
	22406243	Decal	1	Gen Data 30
5	43215037	Decal	1	Max Speed
6	54568779	Decal	1	ISO Rotating Fan
7	54568787	Decal	1	ISO Imprp Oper
8	54627716	Swoosh	1	6.25" IR
9	54629902	Decal	1	ISO Horz 3-Part
10	54640024	Decal	1	Genuine Parts
11	22713648	Ingersoll Rand Logo	1	22"
12	22937783	Swoosh	2	6.50" IR
13	93178945	Decal	1	Oil Fill

Housing Assembly

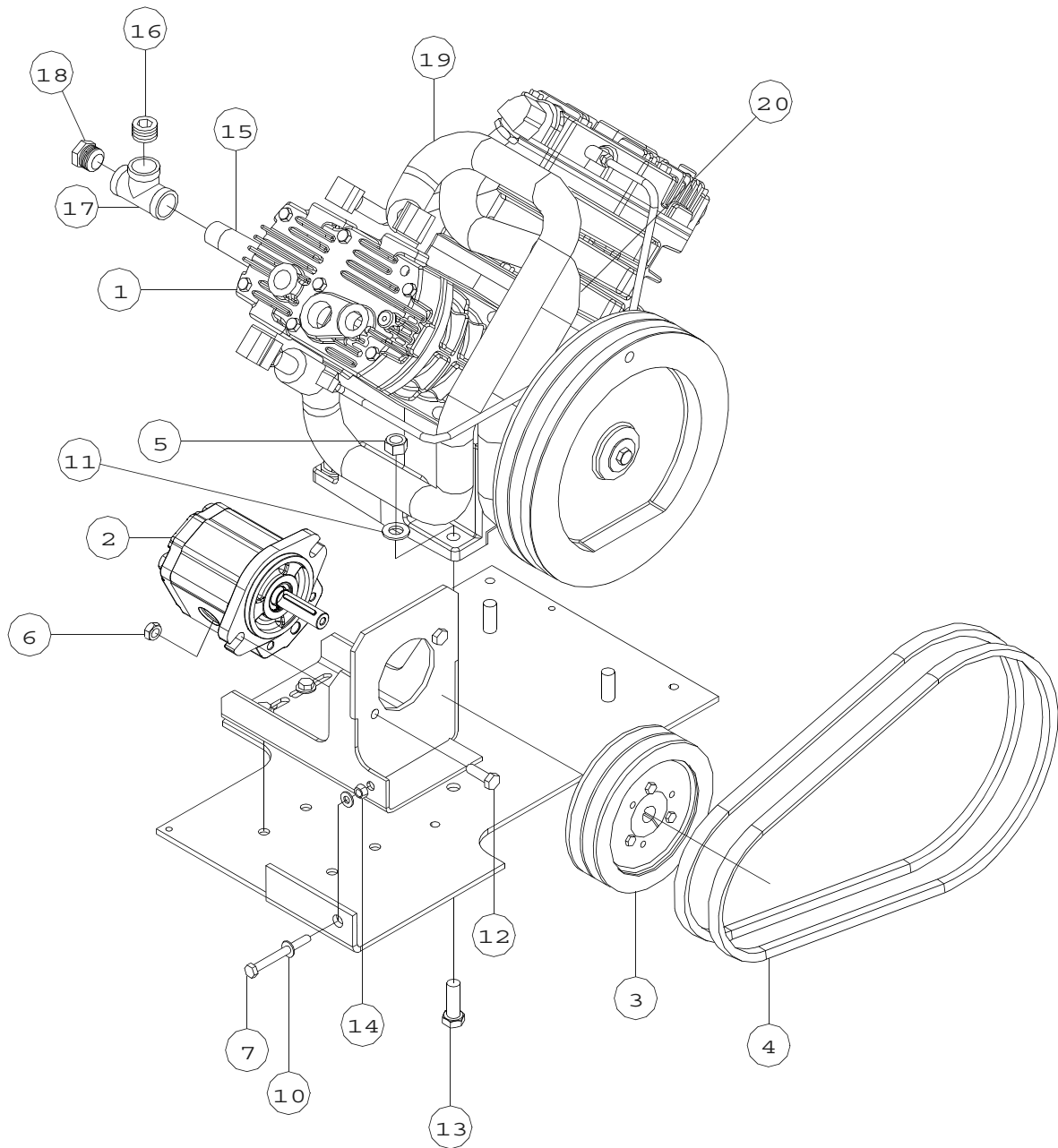


23097140_022_03/09_C

Housing Assembly

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	22357230	Fan	1	Axial Motor 14 inch
2	22359491	Guard	1	Fan
3	22361091	Support, Motor	1	
4	22366116	Base	1	
5	22366124	Panel	1	Rear
6	22366157	Panel	1	Top
7	22366173	Panel	1	Left
8	22366181	Panel	1	Right
9	22383384	Panel	1	Front (VHP40)
9B	22366140	Panel	1	Front (VHP30)
10	22384184	Panel	1	Access
11	22384192	Base	1	Motor/Airend
13	35144344	Screw	8	Whiz Lock .38 X 1.00 Long Zinc Plated
14	35144492	Nut	4	Whiz Lock .25 Zinc
15	35145077	Nut	8	Whiz Lock .38 Zinc Plated
16	35273366	Nut	4	M10
17	35285543	Plug	1	Hole 1.5
18	35603489	Washer	8	Flat .19 X .41 X 1.50
19	36523306	Serial Number Plate	1	
20	36767440	Cover	2	Blind
21	22054175	Hourmeter	1	
22	36857191	Mount	4	ISO Later
23	36891216	Gauge	1	Pressure 250 PSI
24	36895746	Nutsert, Hex	33	M8 -1.25, (14GA - 4GA)
25	95920674	Screw, Cap Hex Head	4	.38 X 1.00 Long Zinc
26	95934816	Screw, Hex Head	4	.25 X 1.00 Long Zinc
27	95935037	Washer	4	Plane Type A Flat Narrow, .38
28	96730411	Screw, Hex Head	4	M10 X 60.0 Long
29	96738802	Screw, Tapping	31	M8 X 20.00 Long

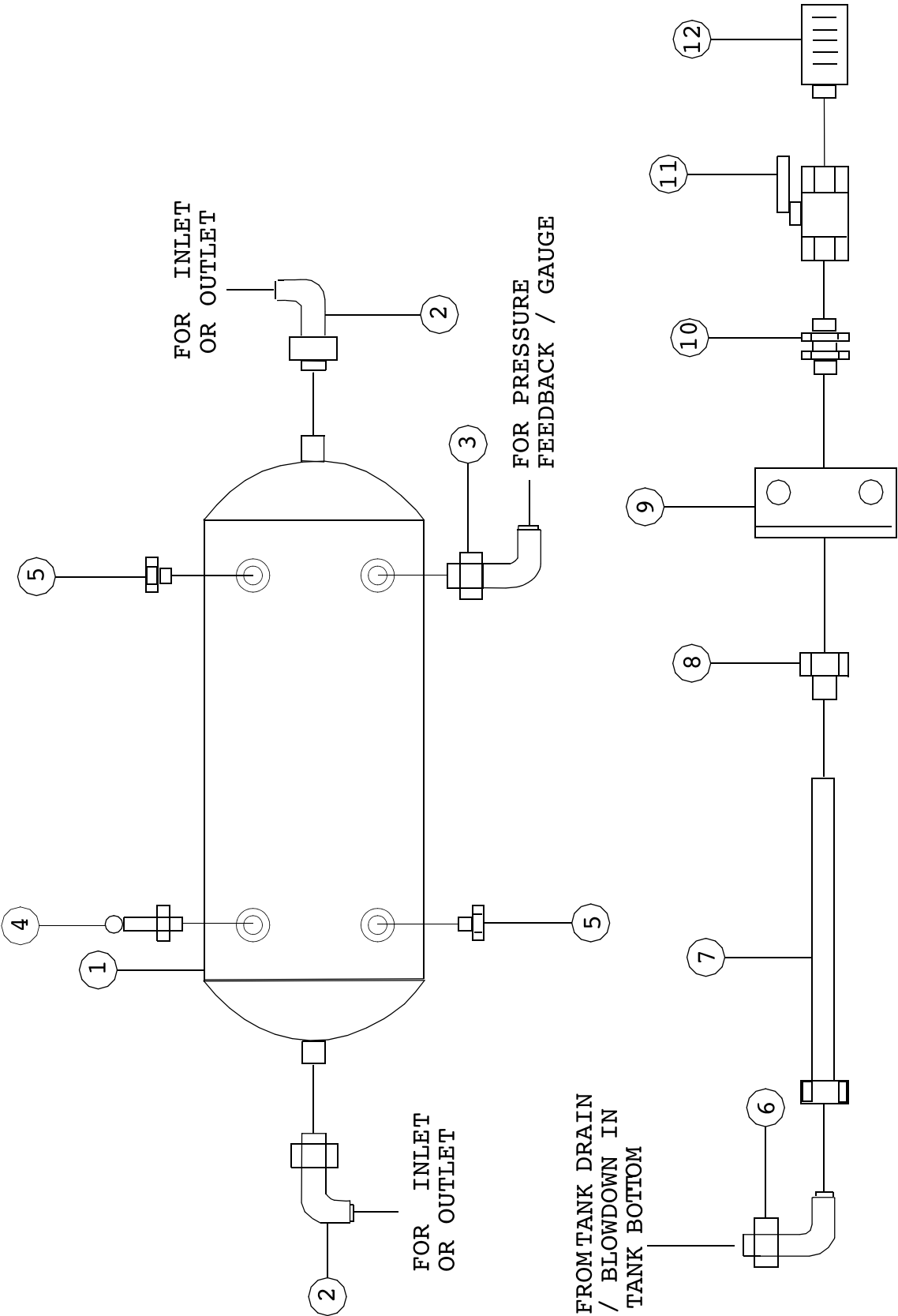
Motor Assembly



23097140_024_03/07_A

Motor Assembly

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	16545006	Bare	1	TS10
2	22369615	Motor (Prior to S/N: 408714)	1	VHP 40 Open Center
2B	22369607	Motor	1	VHP 30 Open Center
2C	22396873	Motor	1	VHP 30 Closed Center
2D	22396865	Motor	1	VHP 40 Closed Center
2F	23134455	Motor (After S/N: 408714)	1	VHP 40 Open Center
3	22371165	Sheave, Assembly	1	
4	22376032	Belt	2	V 21/32 X 47.00
5	22435804	Nut, Hex	4	M14-2
6	35273366	Nut	2	M10
7	36884187	Screw, Hex Head	1	M8 X 80.0 Long Zinc
10	95934998	Washer	2	Plain Type A Flat Narrow, .31
11	95935045	Washer	4	Plain Type A Flat Narrow, .56
12	96701917	Screw, Hex Head	2	M10 X 30.0 Long
13	96719810	Screw, Hex Head	4	M14 X 40.0 Long
14	96735543	Nut, Hex	1	1 Course Thread M8
15	95330395	Nippl	1	Standard .75 NPT X 4.00 Long
16	95947149	Plug	1	Socket .75 NPT
17	95954210	Tee	1	150# .75 FNPT
18	97334270	Sightglass	1	Oil NPT
19	85581437	Tube Assembly	1	Intclr - Right
20	85581429	Tube Assembly	1	Intclr Left
		For Alternate Unit Configurations		
N/S	85582385	Kit	1	Valve/Gasket
N/S	85582393	Kit	1	Ring/Gasket
N/S	85588234	Kit	1	Bearing/Conn. Rod
N/S	85588226	Kit	1	Overhaul
N/S	72062185	Valve	2	Safety (80 PSI)

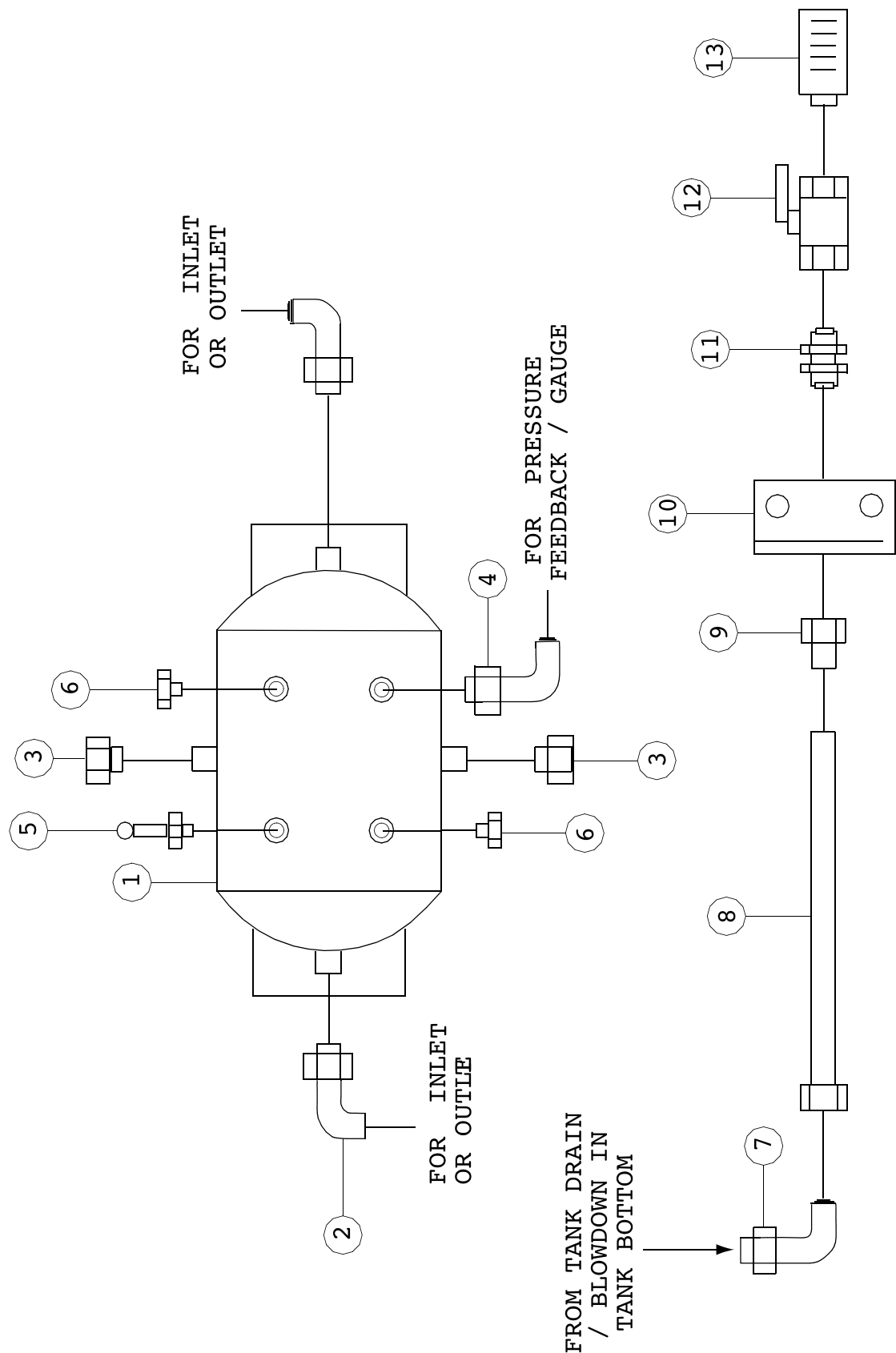


NOTE: COMPONENTS 3, 4, AND 5 ARE INTERCHANGEABLE PER APPLICATION

23097140_026_08/08_B

10 - Gallon Reciever Tank Kit Piping

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		Piping for Kit 36087344		
1	22456222	Tank Air Receiver		10 Gallon
2	95937637	Elbow		90 X .75 Tube X .75 NPT
3	35283464	Elbow		90 X .25 NPT X .25 SAE
4	39588074	Valve, Pressure Relief		
5	95954038	Plug		.25 NPT
6	35309210	Elbow		90 X .50 Tube X .50 NPT
7	22459697	Hose		.50 Tube X 6.0 ft. long
8	22459689	Swivel, Reuseable		.50 Tube
9	22455711	Bracket, Tank Blowdown		
10	95149969	Conn		Bulkhead .50 NPT X .75 SAE
11	35581792	Valve		Ball .50 NPT
12	35132299	Silencer		Blowdown EPA

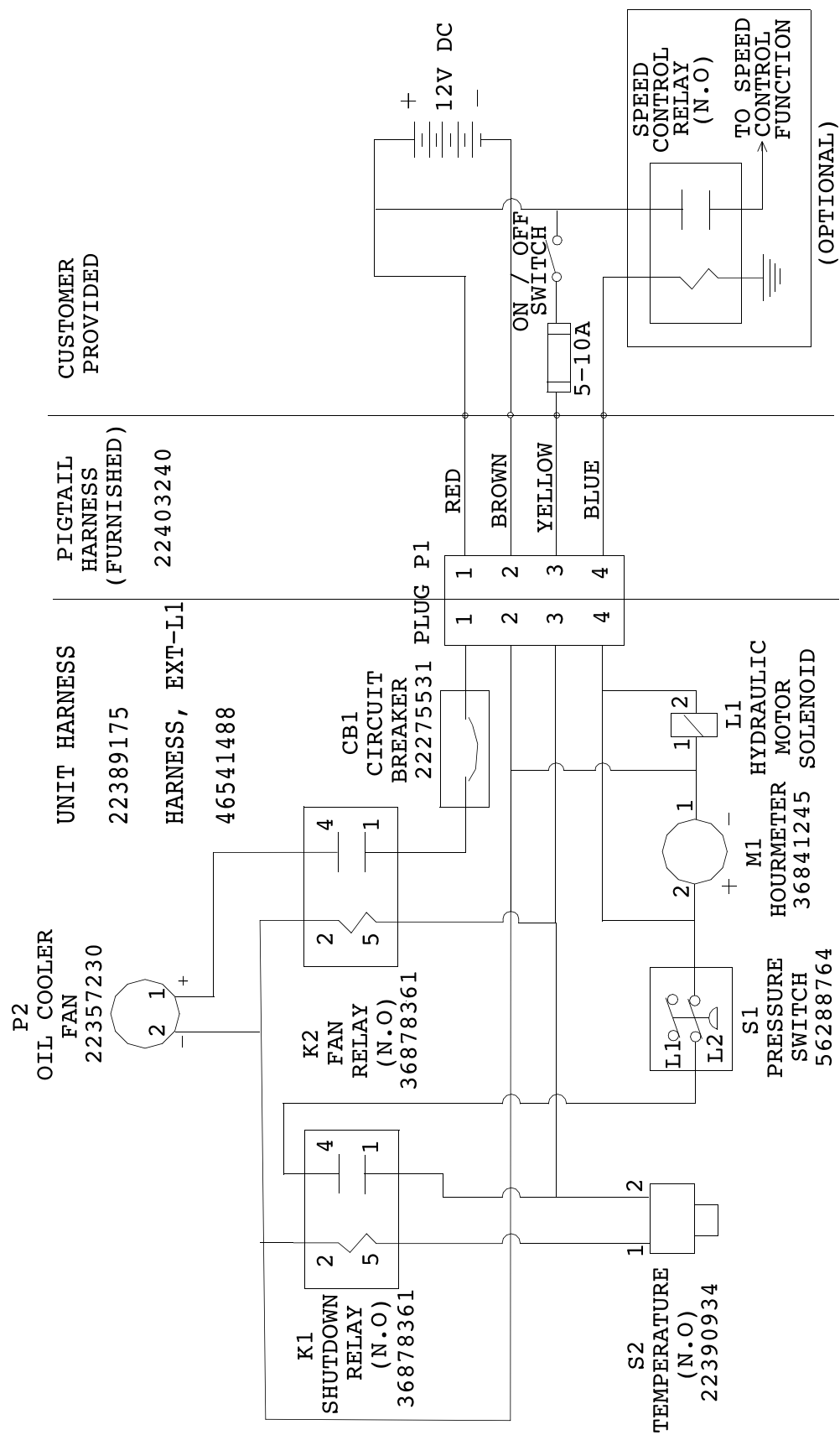


23097140_028_08/08_B

22 - Gallon RecieverTank Kit Piping

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
		Piping for Kit 36087351		
1	22473474	Tank Air Receiver		22 Gallon
2	95937637	Elbow		90 X .75 Tube X .75 NPT
3	95947149	Plug		.75 Npt
4	35283464	Elbow		90 X .25 NPT X .25 SAE
5	39588074	Valve, Pressure Relief		
6	95954038	Plug		.25 NPT
7	35309210	Elbow		90 X .50 Tube X .50 NPT
8	22459697	Hose		.50 Tube X 6.0 ft. long
9	22459689	Swivel		Reuseable .50 Tube
10	22455711	Bracket		Tank Blowdown
11	95149969	Conn		Bulkhead .50 NPT X .75 SAE
12	35581792	Valve		Ball .50 NPT
13	35132299	Silencer		Blowdown EPA

Wiring Diagram



23006661_023_5/09_B

23006661

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22406235	19	36523306	21		15
22406243	19	36767440	21	95940912	17
22418453	17	36857191	21	95944567	17

95944708	17
95946059	17
95946117	17
95947149	23
.....	27
95951414	17
95954038	25
.....	27
95954210	23
9595428	17
95981429	13
.....	15
95985933	15
96701917	23
96719810	23
96730411	21
96735543	23
96738802	21
97334270	23



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