

TRUCK MOUNTED EQUIPMENT PARTS MANUAL



Doosan Infracore
Portable Power

VHP90CMH-OPEN (009)
VHP90CMH-CLOSED (C70)

COMPRESSOR MODELS

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*****Always use Ingersoll Rand Replacement parts!*****



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

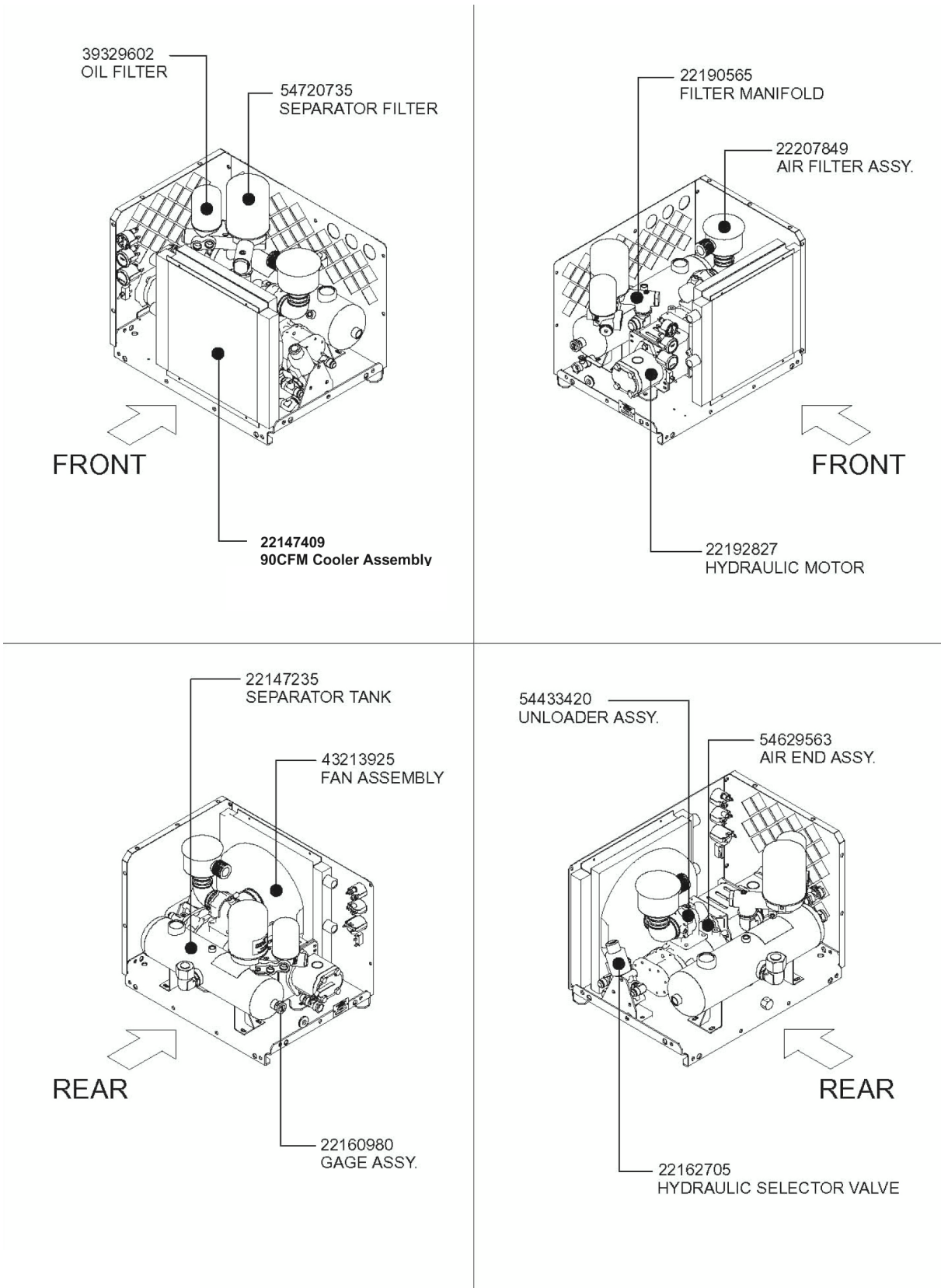
Always specify the model and serial number of the unit.

Specify the part number and description.

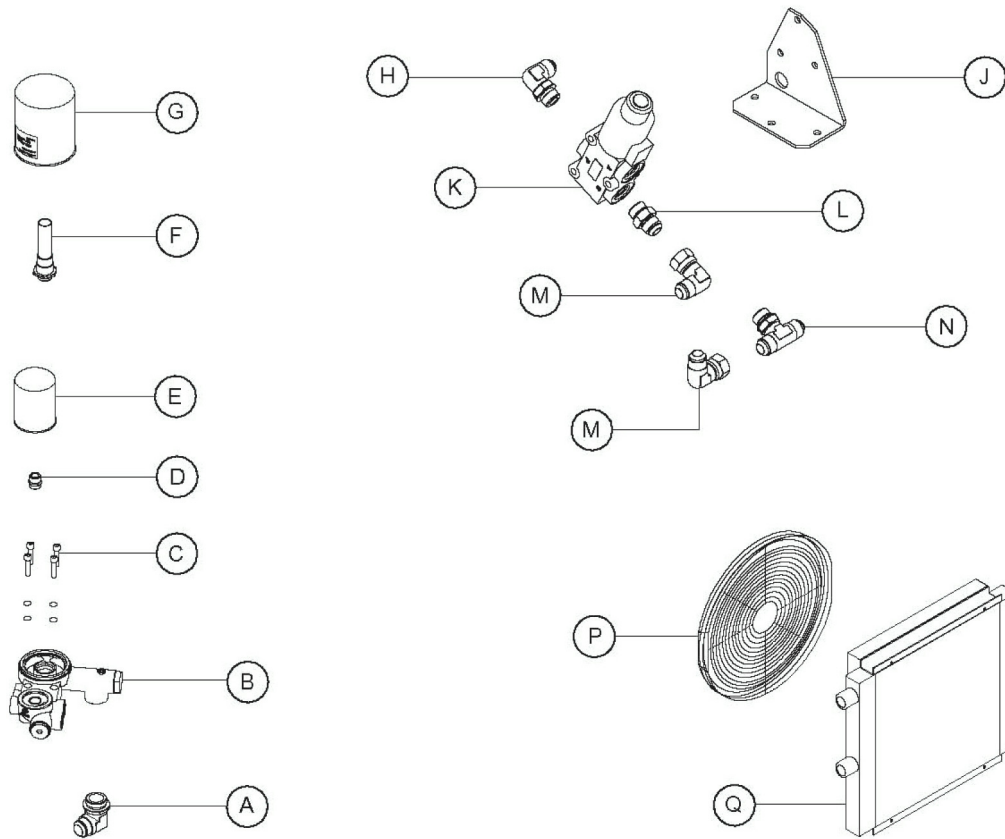


Parts List

General Arrangement

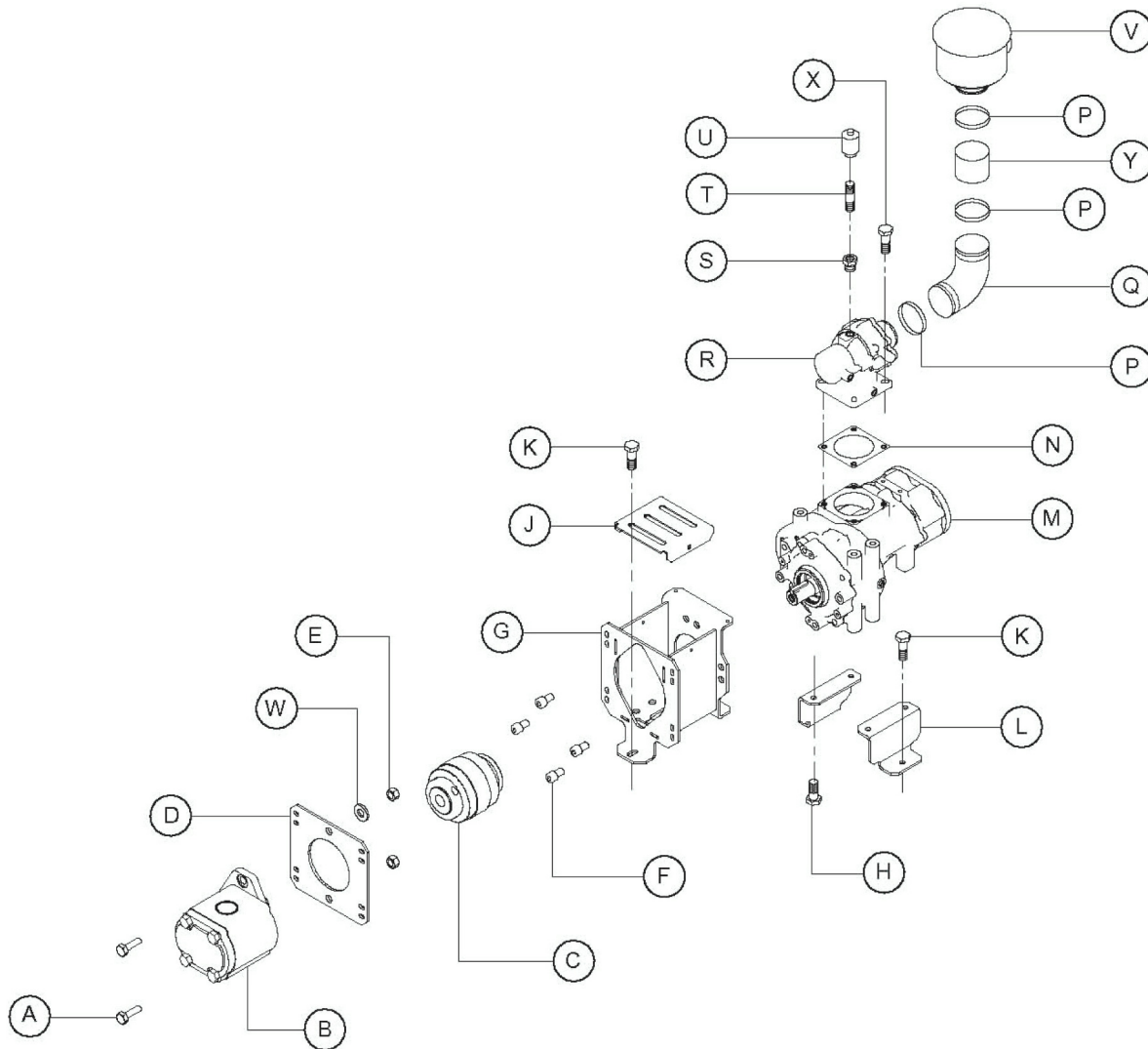


Filters and Oil Coolers



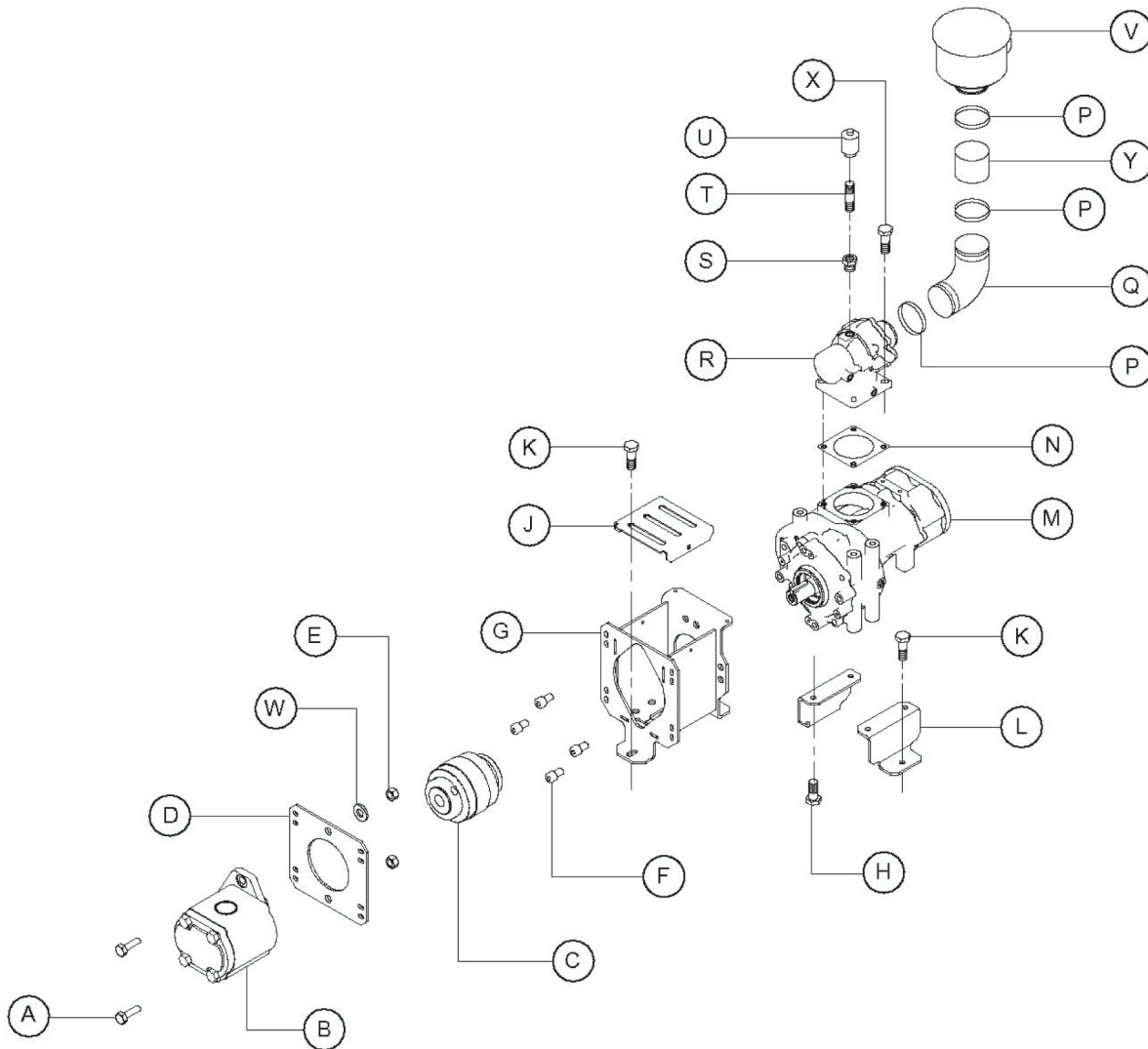
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	95952727	Elbow	1	
B	22190565	Manifold, Filter	1	
	22189468	Kit	1	Minimum Pressure Check Valve
	22064687	Kit	1	Thermal Valve Repair
C	39125000	Screw	4	
	35374826	Washer	4	Copper
D	54749221	Nipple	1	
E	39329602	Filter, Oil	1	
F	22050405	Nipple	1	
G	54720735	Filter, Air/Oil Separator	1	
H	35294750	Elbow	1	
J	22162713	Bracket, Valve Mounting	1	
	96738802	Screw	3	Bracket to Base
	96710488	Screw	3	Valve to Bracket
	96738802	Nut	3	Valve to Bracket
K	22162705	Hydraulic Selector Valve	1	
L	35295880	Bushing	1	
M	35301506	Elbow	1	
N	95469169	Tee	1	
P	43213925	Fan Assembly	1	
Q	46490587	Cooler Assembly	1	

Motor/Air End Assembly



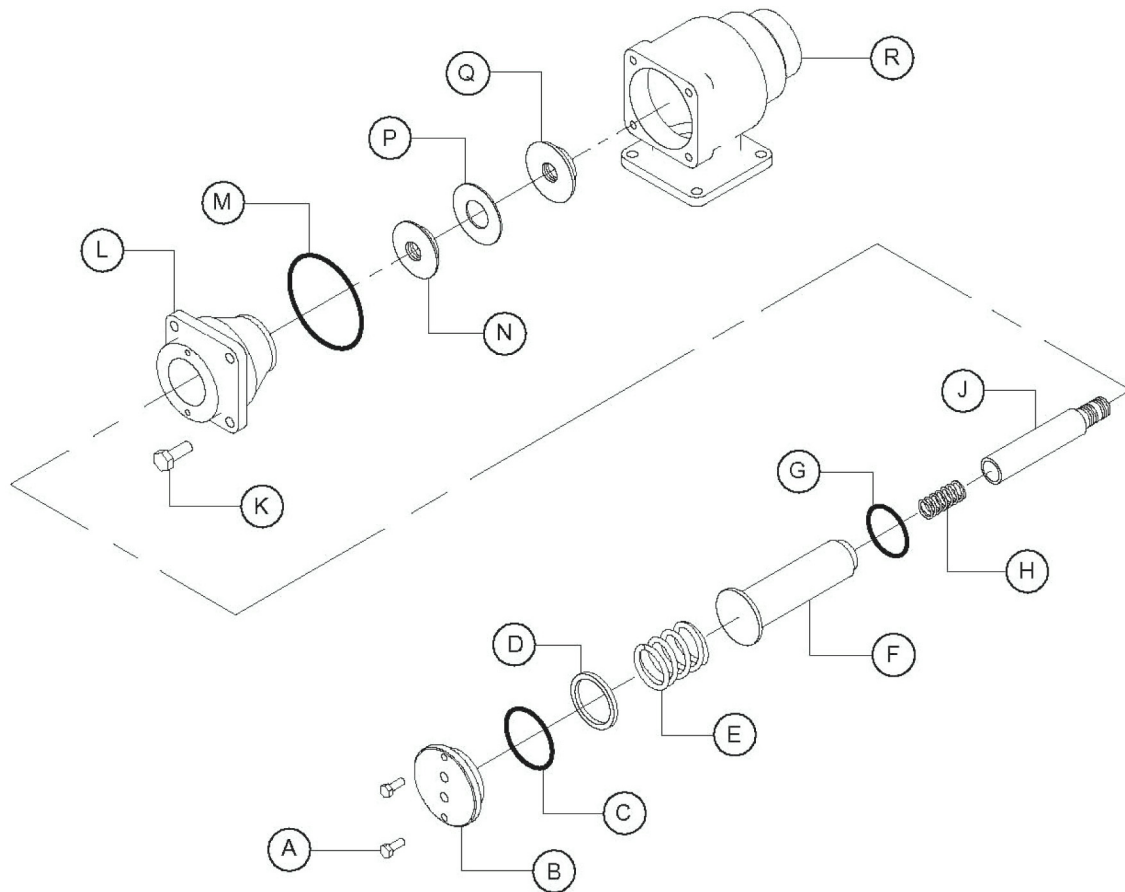
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	95920708	Screw	2	
B	22192827	Motor, Hydraulic	1	
C	22153803	Coupling	1	
D	22153407	Plate, Motor Mounting	1	
E	35252618	Nut	2	
F	96719851	Screw	4	
G	22153399	Support, Motor	1	
H	96705850	Screw	4	
J	22153415	Cover, Support	1	
K	96738802	Screw	3	
L	22153381	Support, Airend	2	
M	54629563	Air End Assembly	1	
N	39313879	Gasket	1	
				Continued.....

Motor/Air End Assembly



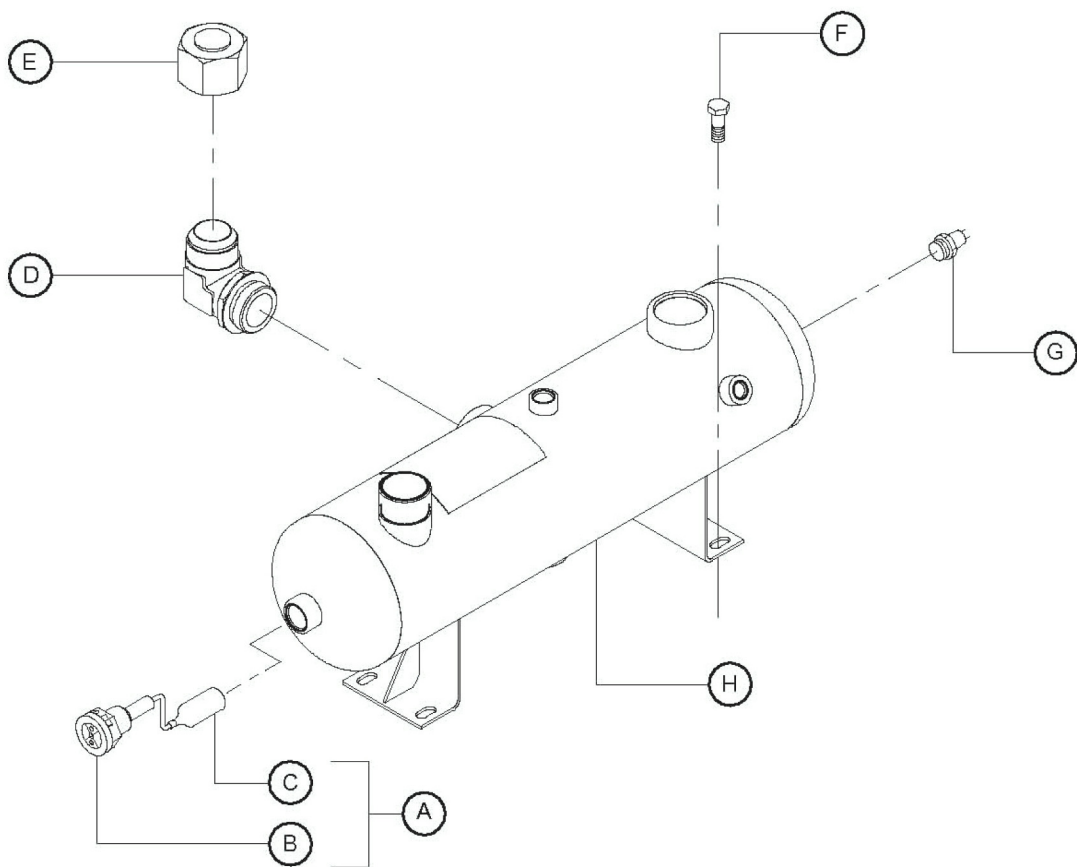
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
				<i>.....Continued</i>
P	35221662	Clamp	1	
Q	22207856	Elbow, Rubber	1	
R	54433420	Unloader Assembly	1	
S	95930301	Bushing	1	
T	95953493	Nipple	1	
U	35300615	Indicator, Restriction	1	
V	22207849	Air Filter Assembly	1	
N/S	22173538	Air Filter Element	1	
W	95935003	Washer	2	
X	96702055	Screw	4	
Y	22207864	Tube	1	

Unloader Assembly



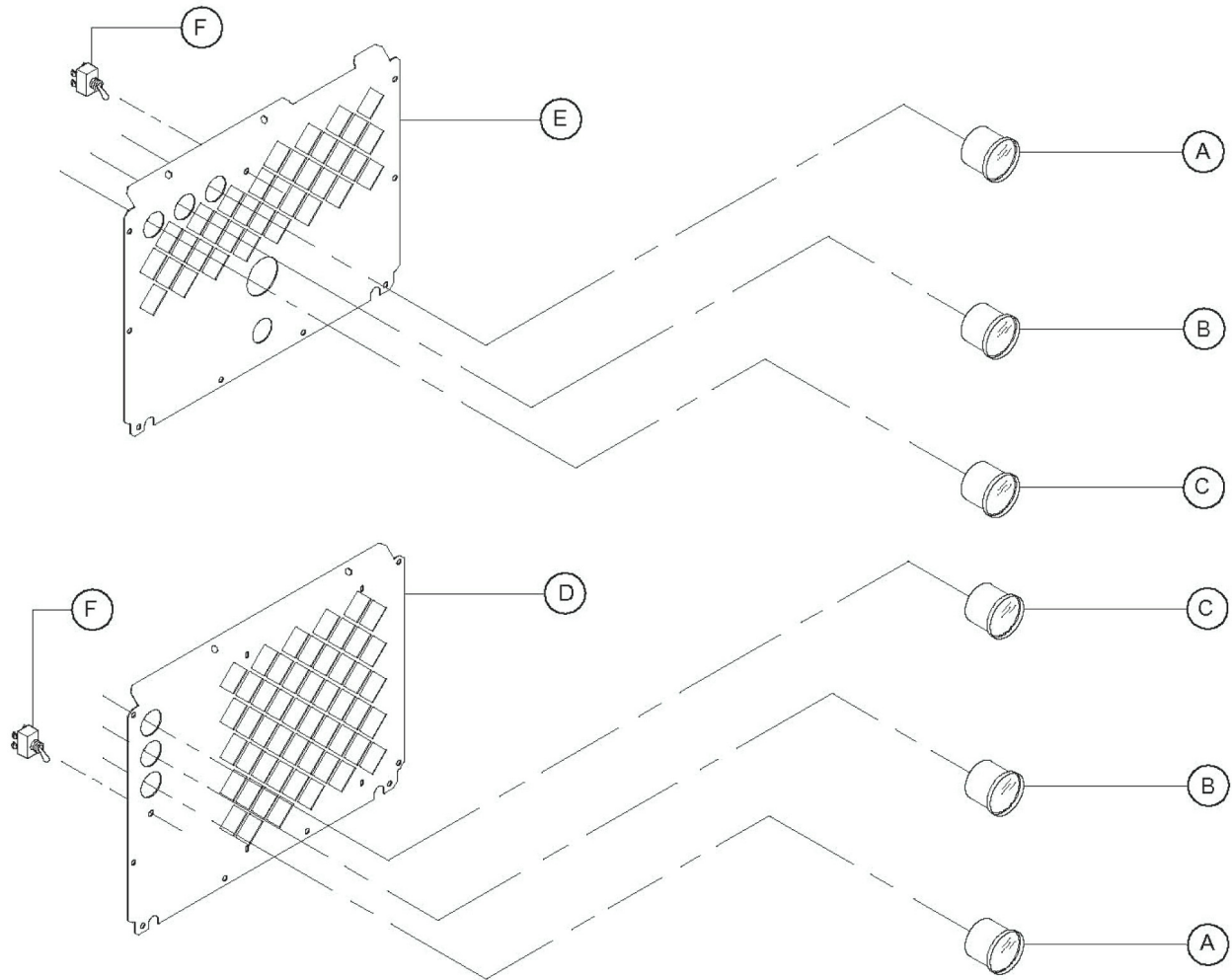
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	92096031	Screw	2	
B	54519772	Cap	1	
C	95087045	O-Ring	1	
D	54519723	Seal, U-Ring	1	
E	54519822	Spring	1	
F	54519905	Piston	1	
G	54519806	O-Ring	1	
H	54519830	Spring	1	
J	54519863	Stem, Check Valve	1	
K	92304344	Screw	4	
L	54519921	Housing, Piston	1	
M	54519798	O-Ring	1	
N	54519871	Plate, Clamp	1	
P	54519889	Valve, Flapper	1	
Q	54519897	Plate, Valve	1	
R	54519939	Body	1	

Unloader Assembly



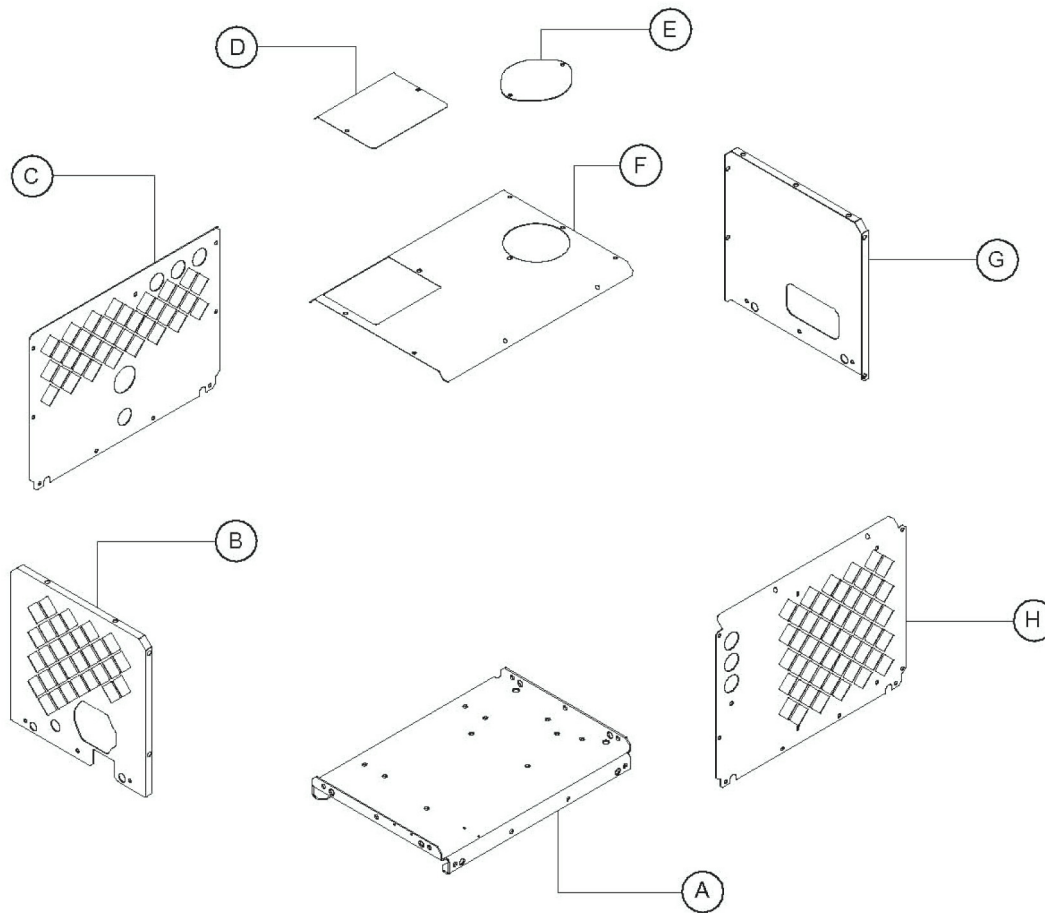
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22160980	Gage Assembly	1	
B	22160972	Gage, Rotary	1	
C	36891489	Pointer Assembly	1	
D	35374867	Elbow, Filter	1	
E	35596691	Cap, Filter	1	
F	36889608	Screw	4	
G	35596436	Switch, Temperature	1	
H	22147235	Tank Assembly	1	

Instrument Panel Assembly



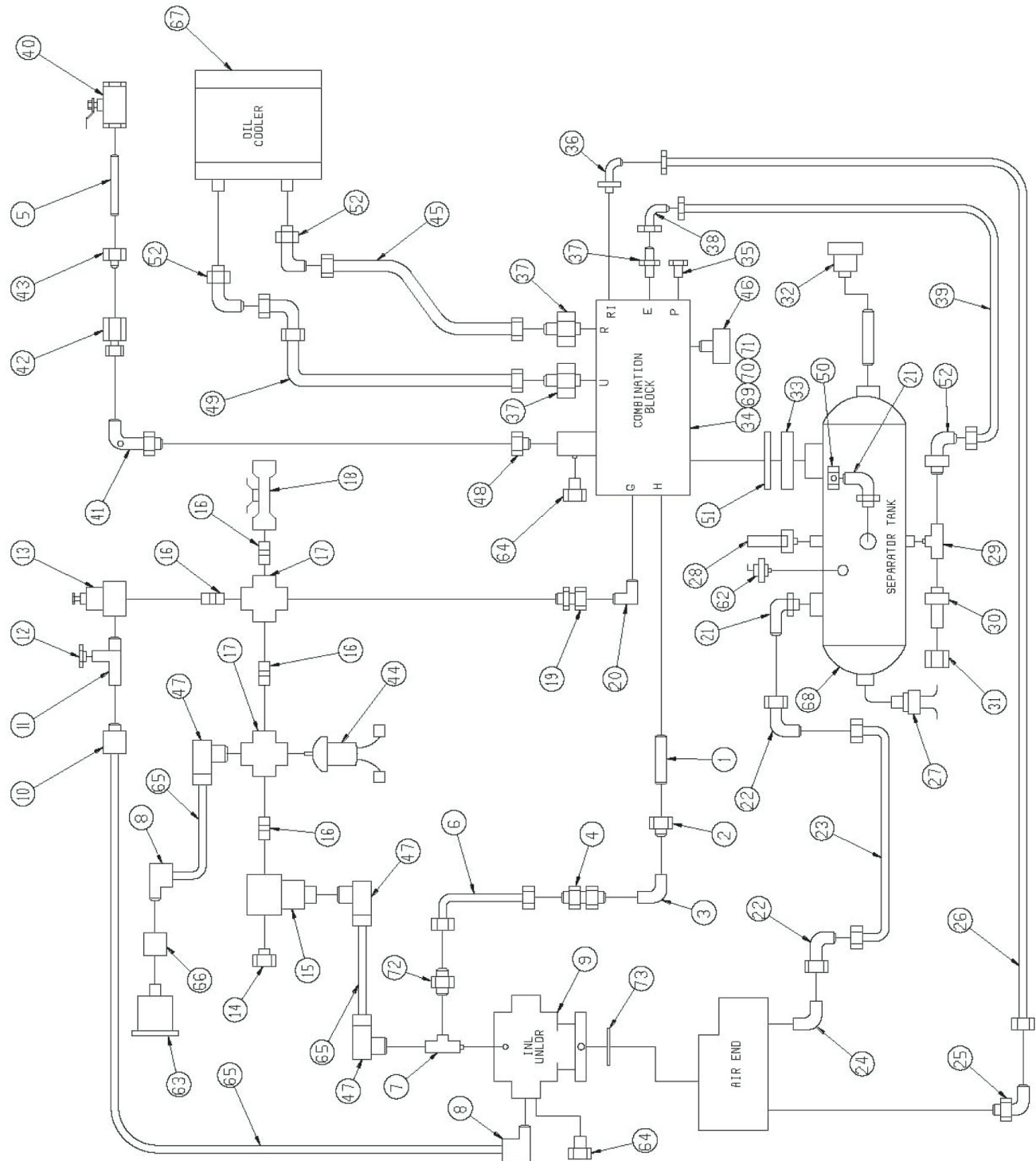
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36841245	Hourmeter	1	Curb Side Street Side
B	35604115	Gage, Temperature	1	
C	36891216	Gage, Pressure	1	
D	46490652	Panel	1	
E	22164628	Panel	1	
F	36895449	Switch, Toggle	1	
	39104765	Boot, Rubber	1	
NS	36767440	Plug, Hole	3	In unused gauge holes

Enclosure and Base



ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22149975	Base, Enclosure	1	
B	22191985	Panel	1	Left Side
C	22164268	Panel	1	Back
D	22173264	Cover, Filter	1	
E	22184295	Cover, Air Filter	1	
F	22164644	Panel	1	Top
G	22164602	Panel	1	Right Side
H	46490652	Panel	1	Front
	96738802	Screw		
	36895746	Nutsert		

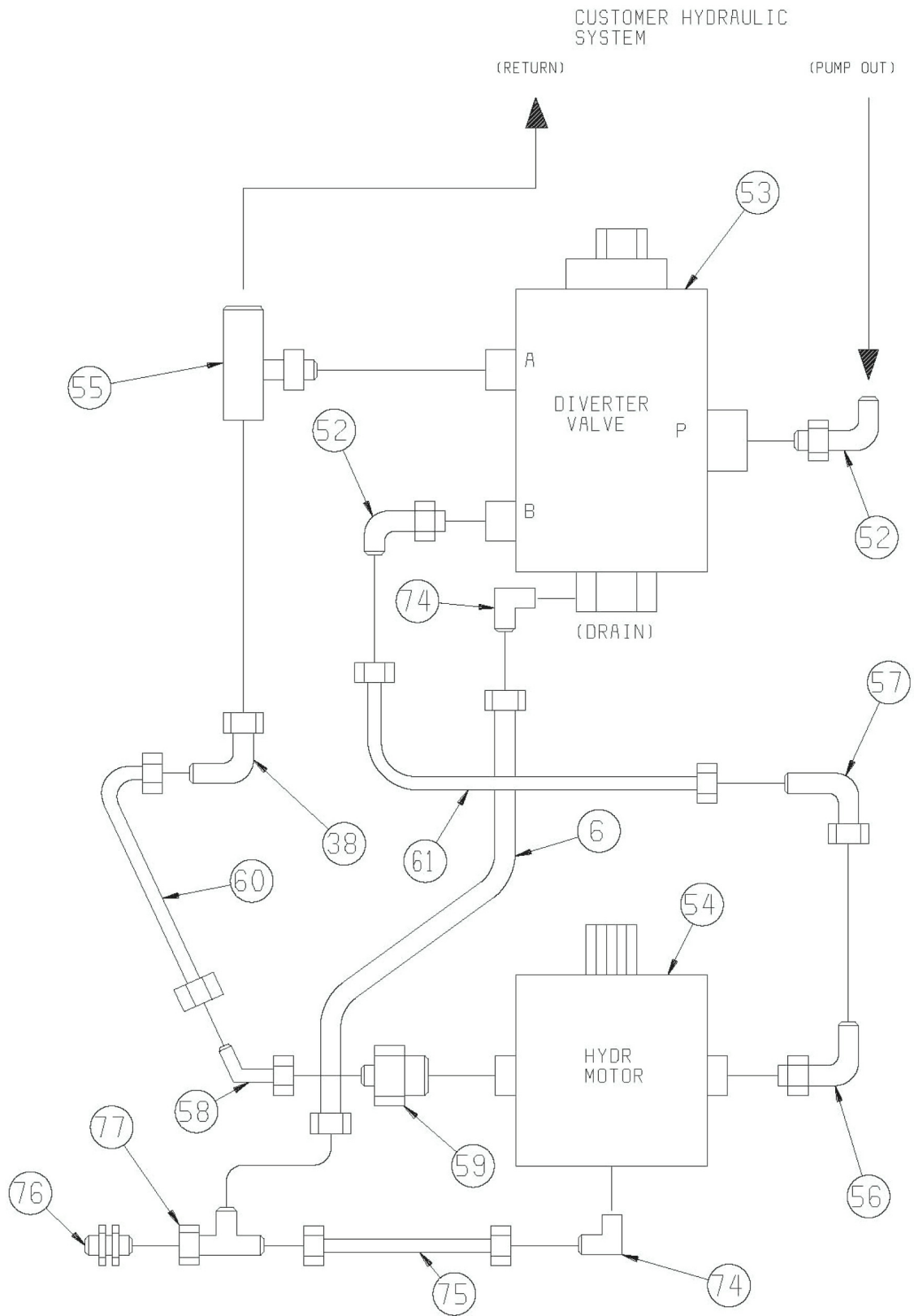
Air/Oil/Hydraulic Piping



Air/Oil/Hydraulic Piping

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	95946059	Nipple		1/8 NPT
2	95930301	Bushing		RDC NPT 025 X 012
3	95954095	Elbow		.25 NPT
4	22184717	Check Valve		.041 ORF
5	95942785	Nipple		LG NPT 075 X 800
6	35310960	Hose Assembly		-4 X 10
7	35114545	Tee, Street		1/4 NPT RUN
8	35301126	Elbow		90° 1/8 NPT X -6 JIC
9	54433420	Unloader Valve		
10	35369347	Connector		ML 1/4 NPT X 3/8 TB
11	35114545	Tee, Street		1/4 NPT
12	36766756	Orifice Muffler		0.140
13	36854495	Regulator		150 200 PSLG Capable
14	22184725	Orifice Muffler		0.041
15	35322379	Blowdown Valve		
16	95944575	Nipple		CL NPT 025 X 088
17	95954293	Cross		1/4 NPT
18	35324839	Ball Valve		1/4 NPT
19	35367846	Conn		1/4 NPT X 6 JIC SWV
20	35279934	Elbow		90° 1/4 NPT X -6 JIC
21	35374867	Elbow		1-7/8 -12 X -20 JIC
22	35279918	Elbow		Swivel, -20 JIC
23	22179386	Hose		-20 X 10.75"
24	96741251	Elbow		90°1-1/4 BSPP -20 JIC
25	39310800	Air End Injection, Elbow		
26	35283308	Hose		JIC -8 X 26
27	35596436	Temp Switch		248°, Tank Mount, SAE
28	39193339	Safety Valve		
29	22179410	Branch Tee		1.06-12,1.06-12,1.06 SAE
30	35322825	Connector		LG 1-1/16 X 12
31	35608694	Cap Safe Vent		-12 JIC
32	22160980	Rotary Sep. Tank Gage		
33	22174544	Special Flange for Combination Block		
34	22190565	Combination MPV, Thermostat, SCAV, Sep.		
35	95954038	Plug		1/4 NPT
36	22179428	Elbow		90° 1.06 12 - SAE X -8
37	35295880	Connector		1-1/16 SAE X -12 JIC
38	35301506	Elbow		90° Swivel Nut -12
39	22180889	Hose Assembly		-12 X -22 JIC
40	35576115	Service Ball Valve		3/4
41	95992848	Elbow		90°
42	22179436	Connector		Swivel,-16JIC X 1.0 F NPT
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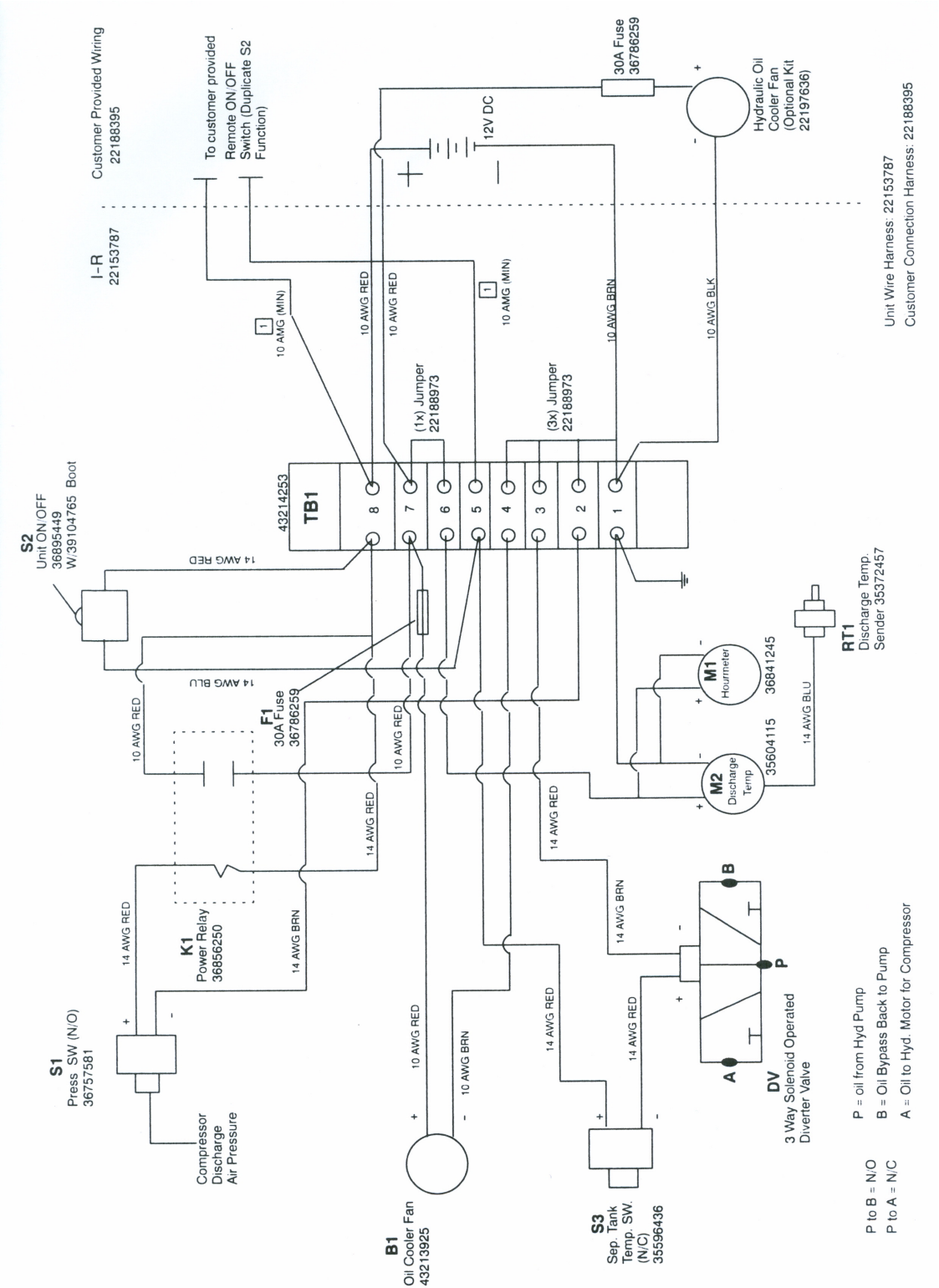
Air/Oil/Hydraulic Piping



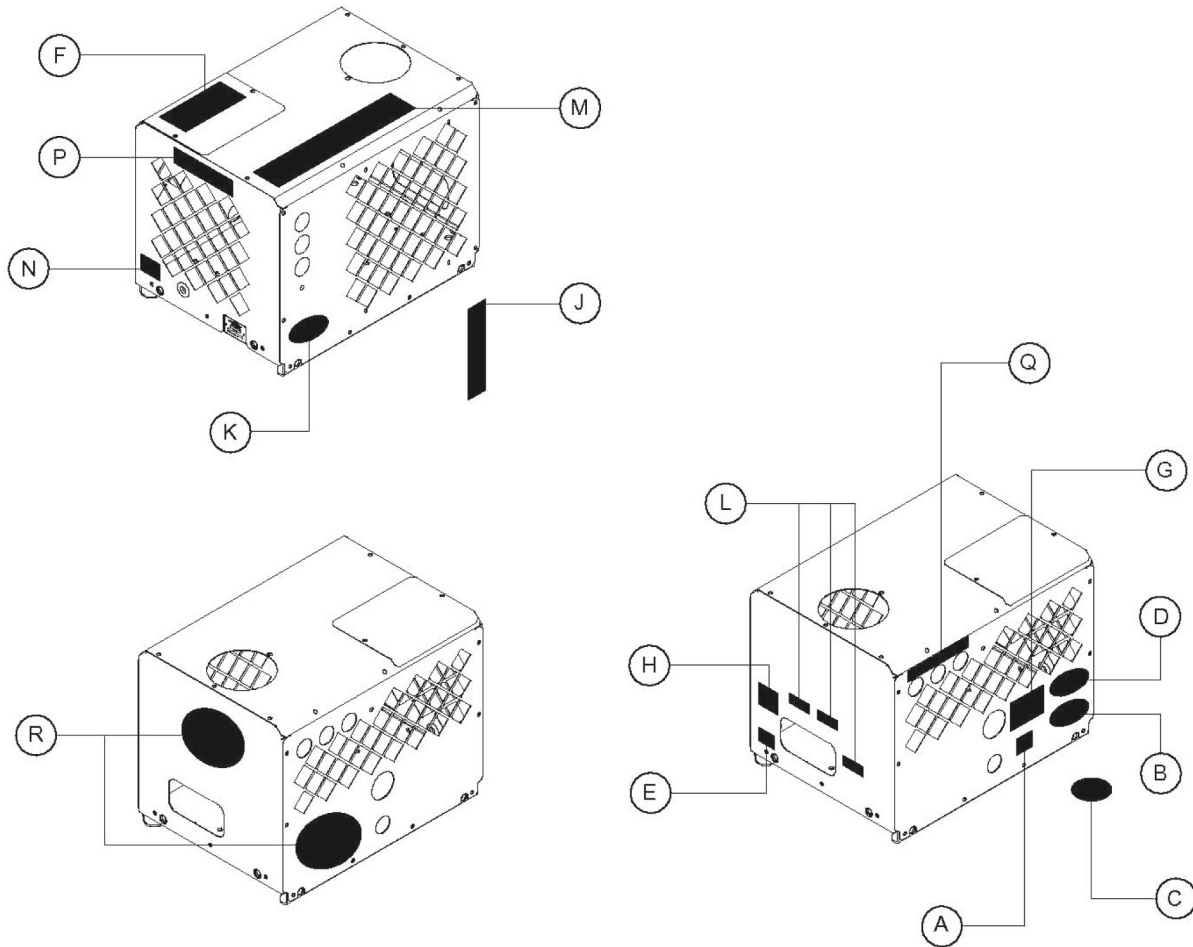
Air/Oil/Hydraulic Piping

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
43	95944617	Bushing		 Continued RDC NPT100 X 075
44	36757581	Discharge Pressure Switch		12 PSIG
45	36882975	Hose Assembly		12X10
46	35379932	PI Hex		1/2 20 UNF
47	35369354	Elbow		ML 1/4 NPT X 3/8 TB
48	95954913	Reducer		1-5/8 SAE X 1-5/16 Female SAE
49	54764261	Hose Assembly		-12 X 11.00
50	35596691	Cap Oil Fill		-20
51	54740378	Combination Valve Gasket		
52	35294750	Elbow		1.06 SAE X-12JIC
53	22162705	Hydraulic Selector Valve		
54	22192827	Motor		2.013 CU.IN.
55	36779999	Tee		-12 -12S W/O-RING
56	35291384	Elbow		90°, 1-5/16 -12 -16JIC
57	35292051	Elbow		90° SWIVEL NUT -16
58	35307206	Elbow		45° -16 SWIVEL
59	35292069	Connector		1-5/8 -12 X -16
60	22179394	Hydraulic Hose		-16 X 35
61	22179402	Hydraulic Hose		-16 X 21.5
62	35372457	Temp Sender		12V
63	36891216	Pressure Gage		250 PSIG Full Scale
64	95928214	Plug		1/8 NPT
65	35356484	Synflex Tubing For Regulation		
66	95935599	Coupling		NPT 012 X 075
67	46490587	Oil Cooler with Fan		90 CFM
68	22147235	Separator Tank		
69	22064687	Thermal Element Kit		Service Part for Item 34
70	22189468	Min Press Valve Kit		Service Part for Item 34
71	22050405	Adapter Kit, Separator		Service Part for Item 34
72	35283472	Connector		1/4 P X -4 JIC
73	39313879	Gasket		
74	35279876	Elbow		90° 7/16 -20 X 4 -JIC
75	35283258	Hose Assembly		4 X 34
76	95365151	Connector		BLK HD-4 JIC
77	35302124	Tee, Run Swivel		.-4 JIC

Wiring Diagram



Decal Location



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54629977	Decal, Oil Drain	1	
B	54640024	Decal, Genuine Parts	1	
C	54604970	Decal, Fill Plug	1	
D	54640164	Decal, Airend Warranty	1	
E	22182315	Decal, Lift Point	8	
F	22191720	Decal, General Data (90 CFM)	1	
G	54568795	Decal, High Pressure Air	1	
H	43215037	Decal, Maximum Speed	1	
J	22207872	Decal, Vertical Gage Location	1	
K	54672175	Decal, Swoosh	1	
L	22184261	Decal, Hydraulic Supply & Return	1	
M	54640388	Decal, 20" IR Monogram	1	
N	54568787	Decal, Improper Operation	1	
P	54629902	Decal, 3-Part Safety	1	
Q	22197065	Decal, Horizontal Gage Location	1	

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1/8 Nipple 13

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 Air Filter Assembly 7

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 Body 8
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 Bracket
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 Branch Tee 13
 Bshg 15

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22153399	6	35292069	15	54519723	8
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22160972	9		13	54519822	8
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22164602	11	35320209	15	54519939	8
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22164644	11	35324185	13	54604970	17
22173264	11	35324839	13	54629563	6
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22179386	13	35369347	13	54640024	17
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22179410	13	35374826	5	54672175	17
22179428	13	35374867	9	54720735	5
22179436	13		13	54740378	15
22180889	13	35379932	15	54749221	5
22182315	17	35576115	13	54764261	15
22184261	17	35596436	9	92096031	8
22184295	11		13	92304344	8
22184717	13	35596691	9	95087045	8
22184725	13		15	95469169	5
22189468	5	35604115	10	95920708	6
.....	15	35608694	13	95928214	15
22190565	5	36757581	15	95930301	7
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22191720	17	36779999	15	95935003	7
22191985	11	36841245	10	95935599	15
22192827	6	36854495	13	95942785	13
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22197065	17	36889608	9	95944617	15
22207849	7	36891216	10	95946059	13
22207856	7		15	95952727	5
22207864	7	36891489	9	95953493	7
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