



CENTRIFUGAL LIQUID CHILLERS

RENEWAL PARTS

Supersedes: 160.69-RP2 (313)

Form 160.69-RP3 (316)

MODEL YD MOD C UNIT COMPONENTS



LD09115

R-134A

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IMPORTANT!

READ BEFORE PROCEEDING!

GENERAL SAFETY GUIDELINES

This equipment is a relatively complicated apparatus. During rigging, installation, operation, maintenance, or service, individuals may be exposed to certain components or conditions including, but not limited to: heavy objects, refrigerants, materials under pressure, rotating components, and both high and low voltage. Each of these items has the potential, if misused or handled improperly, to cause bodily injury or death. It is the obligation and responsibility of rigging, installation, and operating/service personnel to identify and recognize these inherent hazards, protect themselves, and proceed safely in completing their tasks. Failure to comply with any of these requirements could result in serious damage to the equipment and the property in

which it is situated, as well as severe personal injury or death to themselves and people at the site.

This document is intended for use by owner-authorized rigging, installation, and operating/service personnel. It is expected that these individuals possess independent training that will enable them to perform their assigned tasks properly and safely. It is essential that, prior to performing any task on this equipment, this individual shall have read and understood the on-product labels, this document and any referenced materials. This individual shall also be familiar with and comply with all applicable industry and governmental standards and regulations pertaining to the task in question.

SAFETY SYMBOLS

The following symbols are used in this document to alert the reader to specific situations:



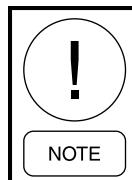
Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.



Identifies a hazard which could lead to damage to the machine, damage to other equipment and/or environmental pollution if proper care is not taken or instructions are not followed.



Indicates a potentially hazardous situation which will result in possible injuries or damage to equipment if proper care is not taken.



Highlights additional information useful to the technician in completing the work being performed properly.



External wiring, unless specified as an optional connection in the manufacturer's product line, is not to be connected inside the control cabinet. Devices such as relays, switches, transducers and controls and any external wiring must not be installed inside the micro panel. All wiring must be in accordance with Johnson Controls' published specifications and must be performed only by a qualified electrician. Johnson Controls will NOT be responsible for damage/problems resulting from improper connections to the controls or application of improper control signals. Failure to follow this warning will void the manufacturer's warranty and cause serious damage to property or personal injury.

CHANGEABILITY OF THIS DOCUMENT

In complying with Johnson Controls' policy for continuous product improvement, the information contained in this document is subject to change without notice. Johnson Controls makes no commitment to update or provide current information automatically to the manual or product owner. Updated manuals, if applicable, can be obtained by contacting the nearest Johnson Controls Service office or accessing the Johnson Controls QuickLIT website at <http://cgproducts.johnsoncontrols.com>.

It is the responsibility of rigging, lifting, and operating/service personnel to verify the applicability of these documents to the equipment. If there is any question

regarding the applicability of these documents, rigging, lifting, and operating/service personnel should verify whether the equipment has been modified and if current literature is available from the owner of the equipment prior to performing any work on the chiller.

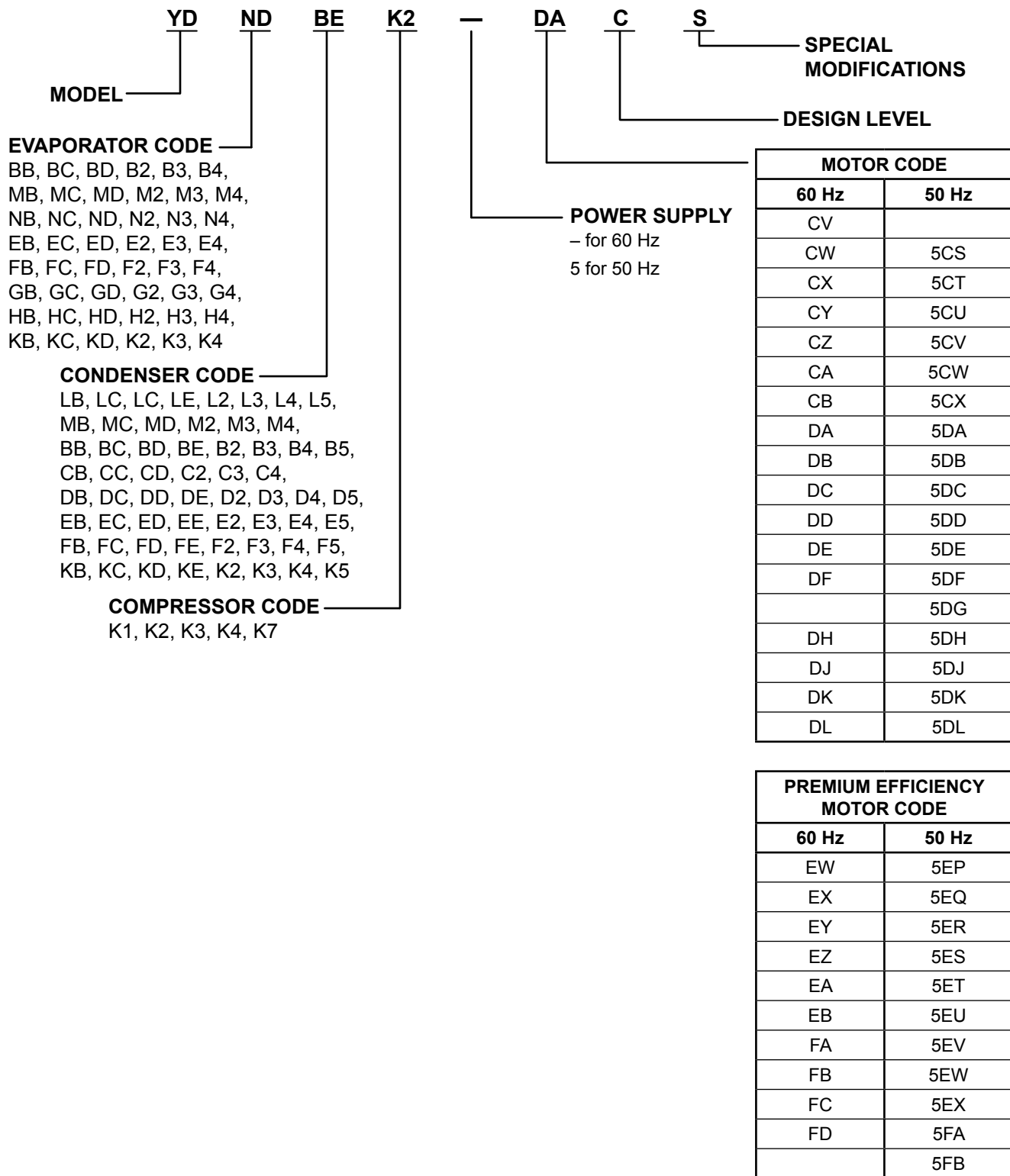
CHANGE BARS

Revisions made to this document are indicated with a line along the left or right hand column in the area the revision was made. These revisions are to technical information and any other changes in spelling, grammar or formatting are not included.

ASSOCIATED LITERATURE

MANUAL DESCRIPTION	FORM NUMBER
Shipping Damage Claims Policy	50.15-NM
Installation Checklist and Request for Startup Engineer	160.69-CL1
Start-Up Checklist YD Chillers	160.69-CL2
Maintenance Requirements	160.69-MR1
Installation Instructions	160.69-N3
Field Reassembly Instructions for Form 3 and 7 Shipment - YD Mod C	160.69-NM4
Control Panel	160.69-O3
Unit Operation Manual	160.69-O4
Wiring Diagram - YD Mod A-C Field Control Modifications	160.69-PW2
Wiring Diagram - YD Mod A-C Remote Starter Specification	160.69-PW4
Wiring Diagram - YD Mod C Chillers with OptiView Control Center and Electro-Mechanical Starter	160.69-PW7
Wiring Diagram - YD Mod C Chillers with OptiView Control Center and Medium Voltage Variable Speed Drive	160.69-PW8
Wiring Diagram - YD Mod C Chillers with OptiView Control Center and Unit Mounted LVVSD or Floor Mounted MVVSD	160.69-PW9
OptiView Renewal Parts - YD Mod A-B	160.69-RP1
Unit Renewal Parts - YD Mod A-B	160.69-RP2
J1, J2, J3, J4, J5, J7 Compressor Part Guide (with/without VGD)	160.73-RP3

NOMENCLATURE



LIST OF FIGURES

FIGURE 1 - YD Unit Components	11
FIGURE 2 - YD Unit Piping (Mod A).....	13
FIGURE 3 - YD Unit Piping (Mod A).....	14
FIGURE 4 - YD Unit Piping (Mod A).....	15
FIGURE 5 - YD Unit Piping (Mod B-C).....	17
FIGURE 6 - YD Unit Piping (Mod B-C).....	18
FIGURE 7 - YD Unit Piping (Mod B-C).....	19
FIGURE 8 - YD Unit Piping (Mod B-C).....	20
FIGURE 9 - YD Unit Piping (Mod B-C).....	21
FIGURE 10 - YD Evaporator / Condenser (Mod A)	23
FIGURE 11 - YD Evaporator / Condenser (Mod B)	25
FIGURE 12 - YD Evaporator / Condenser (Mod C).....	27
FIGURE 13 - YD (Mod A) Oil Pump Housing	29
FIGURE 14 - YD Oil Pump Housing (Mod B-C)	31
FIGURE 15 - Oil Filter Arrangements	33
FIGURE 16 - YD Compressor Components (J1/J2).....	38
FIGURE 17 - YD Compressor Components (J1/J2).....	39
FIGURE 18 - YD Compressor Components (J1/J2).....	40
FIGURE 19 - YD Compressor Components (J1/J2).....	41
FIGURE 20 - YD Compressor Components (J1/J2).....	42
FIGURE 21 - Pre-Rotational Device (J1/J2).....	43
FIGURE 22 - Variable Geometry Diffuser (J1/J2).....	45
FIGURE 23 - YD Compressor Components (J3/J4/J5).....	50
FIGURE 24 - YD Compressor Components (J3/J4/J5).....	51
FIGURE 25 - YD Compressor Components (J3/J4/J5).....	52
FIGURE 26 - YD Compressor Components (J3/J4/J5).....	53
FIGURE 27 - YD Compressor Components (J3/J4/J5).....	54
FIGURE 28 - YD Compressor Components (J3/J4/J5).....	55
FIGURE 29 - Pre-Rotational Device (J3J4/J5).....	56
FIGURE 30 - Variable Geometry Diffuser (J3J4/J5).....	58
FIGURE 31 - YD Compressor Components (J7).....	63
FIGURE 32 - YD Compressor Components (J7).....	64
FIGURE 33 - YD Compressor Components (J7).....	65
FIGURE 34 - Compressor Components (J7).....	66
FIGURE 35 - Pre-Rotational Device (J7).....	67
FIGURE 36 - Variable Geometry Diffuser (J7)	69
FIGURE 37 - Compressor Components (K1/K2).....	73
FIGURE 38 - Compressor Components (K1/K2).....	74
FIGURE 39 - Compressor Components (K1/K2).....	75
FIGURE 40 - Compressor Components (K1/K2).....	76
FIGURE 41 - Pre-Rotational Device (K1/K2).....	77
FIGURE 42 - Variable Geometry Diffuser (K1/K2)	79
FIGURE 43 - Compressor Components (K3/K4).....	84
FIGURE 44 - Compressor Components (K3/K4).....	85
FIGURE 45 - Compressor Components (K3/K4).....	86
FIGURE 46 - Compressor Components (K3/K4).....	87

LIST OF FIGURES (CONT'D)

FIGURE 47 - Pre-Rotational Device (K3/K4).....	88
FIGURE 48 - Variable Geometry Diffuser (K3/K4)	90
FIGURE 49 - Compressor Components (K7).....	95
FIGURE 50 - Compressor Components (K7).....	96
FIGURE 51 - Compressor Components (K7).....	97
FIGURE 52 - Compressor Components (K7).....	98
FIGURE 53 - Pre-Rotational Device (K7).....	99
FIGURE 54 - Variable Geometry Diffuser (K7).....	101
FIGURE 55 - Proximity Probe Kit	102
FIGURE 56 - PRV / VGD Position Sensor Kit	103
FIGURE 57 - YD System Wiring.....	105
FIGURE 58 - YD Variable Speed Oil Pump Panel	107
FIGURE 59 - YD Variable Speed Oil Pump Panel	109
FIGURE 60 - YD Evaporator Relief Valves	111
FIGURE 61 - YD Condenser Relief Valves	113
FIGURE 62 - Evaporator 150# Compact Waterbox (Mod A).....	124
FIGURE 63 - Evaporator 300# Compact Waterbox (Mod A).....	125
FIGURE 64 - Condenser 150# Compact Waterbox (Mod A).....	126
FIGURE 65 - Condenser 300# Compact Waterbox (Mod A).....	127
FIGURE 66 - Evaporator 150# Marine Waterbox (Mod A)	128
FIGURE 67 - Evaporator 300# Marine Waterbox (Mod A)	129
FIGURE 68 - Condenser 150# Marine Waterbox (Mod A)	130
FIGURE 69 - Condenser 300# Marine Waterbox (Mod A)	131
FIGURE 70 - Evaporator 150# Compact Waterbox (Mod B).....	132
FIGURE 71 - Evaporator 300# Compact Waterbox (Mod B).....	133
FIGURE 72 - Condenser 150# Compact Waterbox (Mod B).....	134
FIGURE 73 - Condenser 300# Compact Waterbox (Mod B).....	135
FIGURE 74 - Evaporator 150# Marine Waterbox (Mod B)	136
FIGURE 75 - Evaporator 300# Marine Waterbox (Mod B)	137
FIGURE 76 - Condenser 150# Marine Waterbox (Mod B)	138
FIGURE 77 - Condenser 300# Marine Waterbox (Mod B)	139
FIGURE 78 - Evaporator 150# Compact Waterbox (Mod C)	140
FIGURE 79 - Evaporator 300# Compact Waterbox (Mod C)	141
FIGURE 80 - Condenser 150# Compact Waterbox (Mod C)	142
FIGURE 81 - Condenser 300# Compact Waterbox (Mod C)	143
FIGURE 82 - Evaporator 150# Marine Waterbox (Mod C).....	144
FIGURE 83 - Evaporator 300# Marine Waterbox (Mod C).....	145
FIGURE 84 - Condenser 150# Marine Waterbox (Mod C).....	146
FIGURE 85 - Condenser 300# Marine Waterbox (Mod C).....	147
FIGURE 86 - Neoprene Isolators / Spring Isolators	148
FIGURE 87 - Reverse High Speed Thrust Cover Plate.....	154

LIST OF TABLES

TABLE 1 - YD Unit Components	9
TABLE 2 - YD Unit Piping (Mod A).....	12
TABLE 3 - YD Unit Piping (Mod B-C).....	16
TABLE 4 - YD Evaporator / Condenser (Mod A).....	22
TABLE 5 - YD Evaporator / Condenser (Mod B).....	24
TABLE 6 - YD Evaporator / Condenser (Mod C)	26
TABLE 7 - YD Oil Pump Housing (Mod A)	28
TABLE 8 - YD Oil Pump Housing (Mod B-C)	30
TABLE 9 - Oil Filter Arrangement.....	32
TABLE 10 - YD Compressor Components (J1/J2).....	34
TABLE 11 - Pre-Rotation Device (J1/J2).....	43
TABLE 12 - Variable Geometry Diffuser (J1/J2).....	44
TABLE 13 - YD Compressor Components (J3/J4/J5).....	46
TABLE 14 - Pre-Rotation Device (J3/J4/J5).....	56
TABLE 15 - Variable Geometry Diffuser (J3/J4/J5).....	57
TABLE 16 - YD Compressor Components (J7)	59
TABLE 17 - PRe-Rotational Device (J7).....	67
TABLE 18 - Variable Geometry Diffuser (J7)	68
TABLE 19 - YD Compressor Components (K1/K2)	70
TABLE 20 - Pre-Rotational Device (K1/K2)	77
TABLE 21 - Variable Geometry Diffuser (K1/K2)	78
TABLE 22 - YD Compressor Components (K3/K4)	80
TABLE 23 - Pre-Rotational Device (K3/K4)	88
TABLE 24 - Variable Geometry Diffuser (K3/K4)	89
TABLE 25 - YD Compressor Components (K7).....	91
TABLE 26 - Pre-Rotational Device (K7).....	99
TABLE 27 - Variable Geometry Diffuser (K7).....	100
TABLE 28 - Proximity Probe Kit.....	102
TABLE 29 - PRV / VGD Position Sensor Kit.....	103
TABLE 30 - YD System Wiring	104
TABLE 31 - YD Variable Speed Oil Pump Panel	106
TABLE 32 - YD Variable Speed Oil Pump Panel	108
TABLE 33 - YD Evaporator Relief Valves	110
TABLE 34 - YD Condenser Relief Valves	112
TABLE 35 - 18' Condenser Shells With 3/4" Tubes	114
TABLE 36 - 18' Evaporator Shells With 3/4" Tubes	115
TABLE 37 - 18' And 22' Condenser Shells With 3/4" Tubes	116
TABLE 38 - 18' And 22' Condenser Shells With 1" Tubes	117
TABLE 39 - 18' And 22' Evaporator Shells With 3/4" Tubes	118
TABLE 40 - 18' And 22' Evaporator Shells With 1" Tubes	119
TABLE 41 - 18' Condenser Shells With 3/4" Tubes	120
TABLE 42 - 22' Condenser Shells With 3/4" Tubes	120
TABLE 43 - 18' Condenser Shells With 1" Tubes	121
TABLE 44 - 22' Condenser Shells With 1" Tubes	121
TABLE 45 - 18' Evaporator Shells With 3/4" Tubes	122
TABLE 46 - 22' Evaporator Shells With 3/4" Tubes	122

LIST OF TABLES (CONT'D)

TABLE 47 - 18' Evaporator Shells With 1" Tubes	123
TABLE 48 - 22' Evaporator Shells With 1" Tubes	123
TABLE 49 - Evaporator 150# Compact Waterbox (Mod A).....	124
TABLE 50 - Evaporator 300# Compact Waterbox (Mod A).....	125
TABLE 51 - Condenser 150# Compact Waterbox (Mod A).....	126
TABLE 52 - Condenser 300# Compact Waterbox (Mod A).....	127
TABLE 53 - Evaporator 150# Marine Waterbox (Mod A)	128
TABLE 54 - Evaporator 300# Marine Waterbox (Mod A)	129
TABLE 55 - Condenser 150# Marine Waterbox (Mod A)	130
TABLE 56 - Condenser 300# Marine Waterbox (Mod A)	131
TABLE 57 - Evaporator 150# Compact Waterbox (Mod B).....	132
TABLE 58 - Evaporator 300# Compact Waterbox (Mod B).....	133
TABLE 59 - Condenser 150# Compact Waterbox (Mod B).....	134
TABLE 60 - Condenser 300# Compact Waterbox (Mod B).....	135
TABLE 61 - Evaporator 150# Marine Waterbox (Mod B)	136
TABLE 62 - Evaporator 300# Marine Waterbox (Mod B)	137
TABLE 63 - Condenser 150# Marine Waterbox (Mod B).....	138
TABLE 64 - Condenser 300# Marine Waterbox (Mod B)	139
TABLE 65 - Evaporator 150# Compact Waterbox (Mod C)	140
TABLE 66 - Evaporator 300# Compact Waterbox (Mod C)	141
TABLE 67 - Condenser 150# Compact Waterbox (Mod C)	142
TABLE 68 - Condenser 300# Compact Waterbox (Mod C)	143
TABLE 69 - Evaporator 150# Marine Waterbox (Mod C).....	144
TABLE 70 - Evaporator 300# Marine Waterbox (Mod C).....	145
TABLE 71 - Condenser 150# Marine Waterbox (Mod C).....	146
TABLE 72 - Condenser 300# Marine Waterbox (Mod C).....	147

UNIT COMPONENTS

TABLE 1 - YD UNIT COMPONENTS

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
20	Hose, Braided Flex Metal	026 41577 000	1	1
24	Valve, W/ ABZ Actuator 8" Assembly YD (Mod A)	322 10665 000	2	1
24A	Actuator, ABZ	025 38770 000	1	1
24A	Actuator, Bray	025 38770 100	1	1
24B	Valve, ABZ 8"	022 10665 000	1	1
24	Valve, W/ ABZ Actuator 10" Assembly YD (Mod A)	322 10696 000	2	1
24A	Actuator, ABZ	025 38770 000	1	1
24A	Actuator, Bray	025 38770 100	1	1
24B	Valve, ABZ 10"	022 10665 001	1	1
24	Valve, Norriseal W/ ABZ Actuator 8" Assembly YD (Early Mod B)	322 11445 000	2	1
24A	Actuator, ABZ	025 40721 000	1	1
24B	Valve, Norriseal 8"	022 11445 001	1	1
24C	O-ring, Neo	028 12961 029	1	1
24D	Norriseal, Rebuild Kit	022 11445 001 Kit	1	1
24	Valve, Norriseal W/ ABZ Actuator 10" Assembly YD (Early Mod B)	322 11446 000	2	1
24A	Actuator, ABZ	025 40721 000	1	1
24B	Valve, Norriseal 10"	022 1146 001	1	1
24C	O-ring, Neo	028 12961 030	1	1
24D	Norriseal, Rebuild Kit	022 11446 001 Kit	1	1
24	Valve, Norriseal W/ ABZ Actuator 12" Assembly YD (Early Mod B)	322 11447 000	2	1
24A	Actuator, ABZ	025 40722 000	1	1
24B	Valve, Norriseal 12"	022 11447 001	1	1
24C	O-ring, Neo	028 12961 031	1	1
24D	Norriseal, Rebuild Kit	022 11447 001 Kit	1	1
24	Valve, Norriseal W/ Bray Actuator 8" YD (Mod B-C)	322 11721 000	2	1
24A	Actuator, Bray	025 42081 000	1	1
24B	Valve, Norriseal 8"	022 11721 001	1	1
24C	O-ring, Neo	028 12961 029	1	1
24D	Norriseal, Rebuild Kit	022 11445 001 Kit	1	1
24	Valve, Norriseal W/ Bray Actuator 10" YD (Mod B-C)	322 11722 000	2	1
24A	Actuator, Bray	025 39625 100	1	1
24B	Valve, Norriseal 10"	022 11722 001	1	1
24C	O-ring, Neo	028 12961 030	1	1
24D	Norriseal, Rebuild Kit	022 11446 001 Kit	1	1
24	Valve, Norriseal W/ Bray Actuator 12" YD (Mod B-C)	322 11723 000	2	1
24A	Actuator, Bray	025 39625 100	1	1
24B	Valve, Norriseal 12"	022 11723 001	1	1
24C	O-ring, Neo	028 12961 031	1	1
24D	Norriseal, Rebuild Kit	022 11447 001 Kit	1	1
25	Valve, Ball 3" Flanged	022 09739 000	1	1
	Valve, Ball 4" Flanged	022 09740 000	1	1

TABLE 1 - YD UNIT COMPONENTS (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
26	Valve, Butterfly Size 3"	022 10643 003	1	1
26A	O-ring, Neo 4.1 .028 x .210	028 12961 025	2	1
26	Valve, Butterfly Size 4"	022 10643 004	1	1
26A	O-ring, Neo 5.1 .037 x .275	028 12961 026	2	1
27	Gasket (J1-J2 Compressor)	028 15129 103	2	1
	Gasket (J3-J5 Compressor)	028 15129 104	2	1
	Gasket (J7 Compressor)	028 15129 106	2	1
	Gasket (K1, K2 Compressor)	028 15129 104	2	1
	Gasket (K3, K4 Compressor)	028 15129 105	2	1
	Gasket (K7 Compressor)	028 15129 106	2	1
28	Gasket, Ansi 14-150# (Mod A - X Shells)	028 15075 116	2	1
	Gasket, Ansi 16-150# (Mod A - Y, Z, A Shells)	028 15075 117	2	1
	Gasket, Ansi 14-150# (Mod B - B Shells)	028 15075 116	2	1
	Gasket, Ansi 16-150# (Mod B - C-H Shells)	028 15075 117	2	1
	Gasket, Ansi 20-150# (Mod B - K Shells)	028 15075 119	2	
	Gasket, Ansi 16-150# (Mod C - B-L, M-M, N-B Shells)	028 15075 117	2	1
	Gasket, Ansi 18-150# (Mod C - E-C, F-D, G-E, H-F Shells)	028 15075 118	2	1
	Gasket, Ansi 20-150# (K-K Shells)	028 15075 119	2	1
30	Gasket, Ansi 3-150# (B-L, M-M Shells)	028 15075 108	2	1
	Gasket, Ansi 4-150# (E-C, F-D, G-E, H-F, K-K, N-B Shells)	028 15075 110	2	1
31	O-Ring, Neo1 02.734id .139thk M	028 13578 000	2	1
32	O-Ring, Neo1 03.100id .210thk M	028 12597 000	2	1
65	O-Ring, Neo1 09.475id .210thk M (B-L, M-M, N-B Shells)	028 15319 000	2	1
	O-Ring, Neo1 11.475id .275thk M (E-C, F-D, G-E, H-F Shells)	028 15801 000	2	1
	O-Ring, Neo1 13.47id .275thk M (K-K Shells)	028 11977 000	2	1

NOTE: Items with an * are NOT represented.

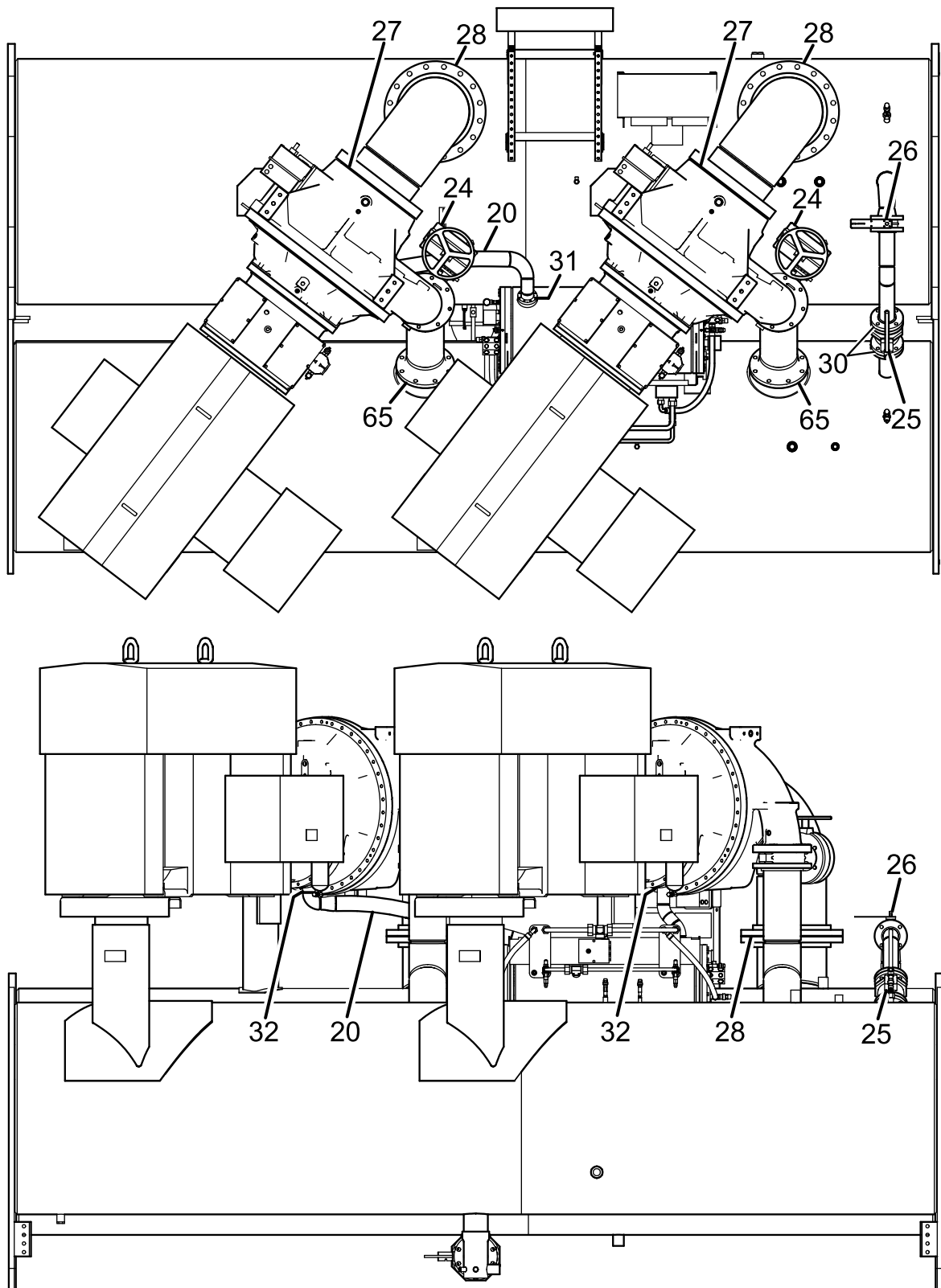


FIGURE 1 - YD UNIT COMPONENTS

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UNIT PIPING (MOD A)

TABLE 2 - YD UNIT PIPING (MOD A)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Gasket	028 15075 106	2	2, 4
2	Seal, O-Ring (1-11/16")	028 12961 022	2	2, 3, 4
3	Seal, O-Ring (9/16")	028 12961 003	10	2, 4
4	Seal, O-Ring (11/16")	028 12961 012	24	2, 3, 4
5	Seal, O-Ring (1-7/16")	028 12961 016	8	3, 4
6	Seal, O-Ring (1-5/16")	028 12961 008	2	3, 4
7	Valve, Relief	022 10077 000	1	3, 4
8	Seal, O-Ring (7/8")	028 12961 005	1	3, 4
9	Transducer, Pressure	025 28678 006	1	4
10	Gasket	028 01258 000	1	4
11	Bottle, High Density	028 10579 000	2	2
11A	Cap	066 89574 000	1	2
12	Seal, O-Ring (1-3/16")	028 12961 015	4	2, 4
13	Seal, O-Ring (1-1/16")	028 12961 006	2	2, 4
14	Filter Drier	026 37563 000	3	2, 3
15	Valve, Solenoid	025 35150 102	5	2
16	Valve, Stop Vertical Angle	022 10054 000	4	3
17	Valve, Check	023 20876 000	2	3
18	Seal, O-Ring (1")	028 12961 016	8	3
19	Gasket (16-1/4" O.D. X 14" I.D.)	028 13804 000	2	2
20	Adapter, ORFS x 1-1/8	023 20877 000	4	3
22	Seal, O-Ring (3 1/8")	028 12597 000	2	2, 3
23	Seal, O-Ring (2 3/4")	028 13578 000	2	3, 4
24	Gasket (11" O.D. X 8 5/8" I.D.)	028 15075 113	4	2
25	Valve, Ball	022 09964 000	1	2, 3

NOTE: Items with an * are NOT represented.

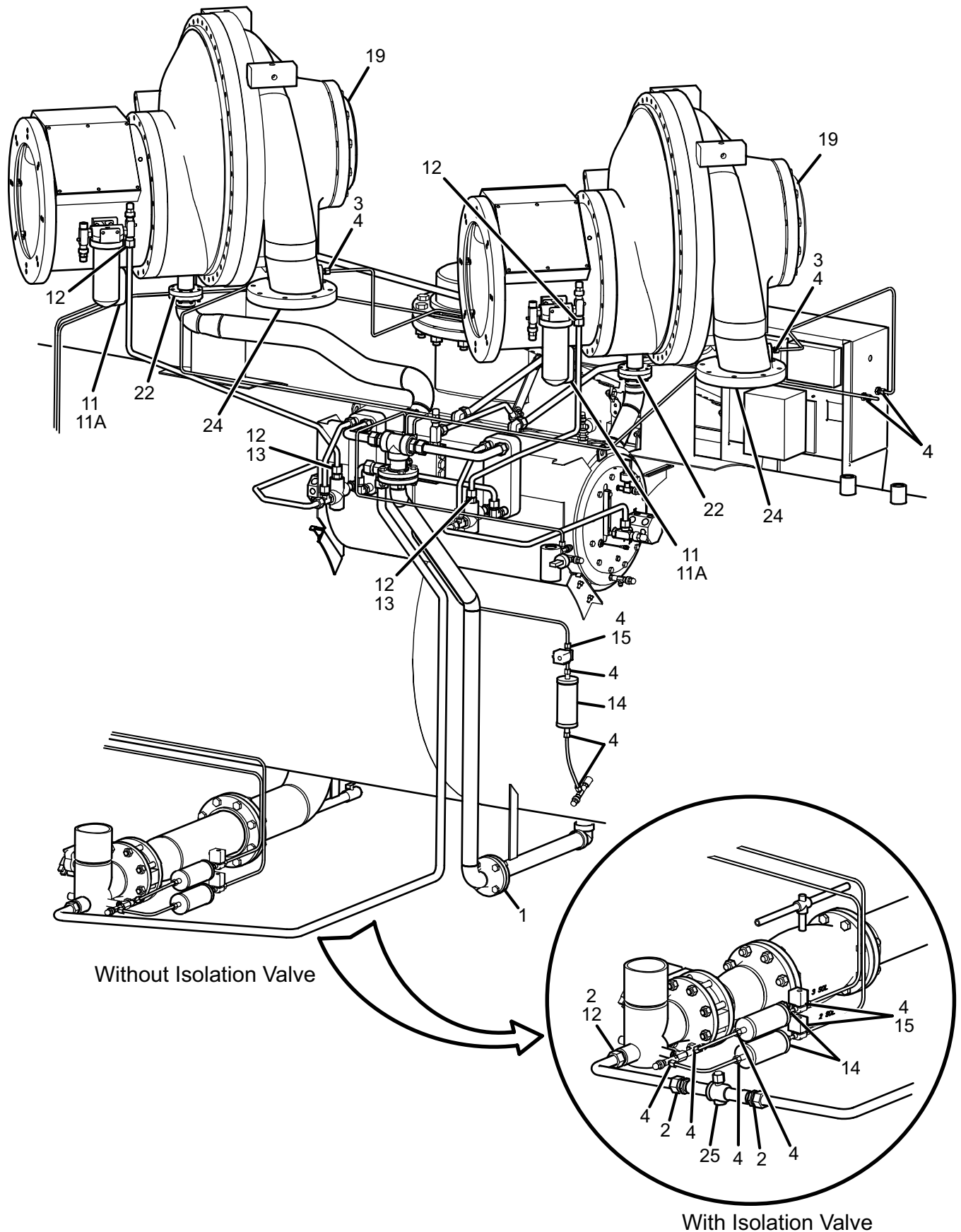


FIGURE 2 - YD UNIT PIPING (MOD A)

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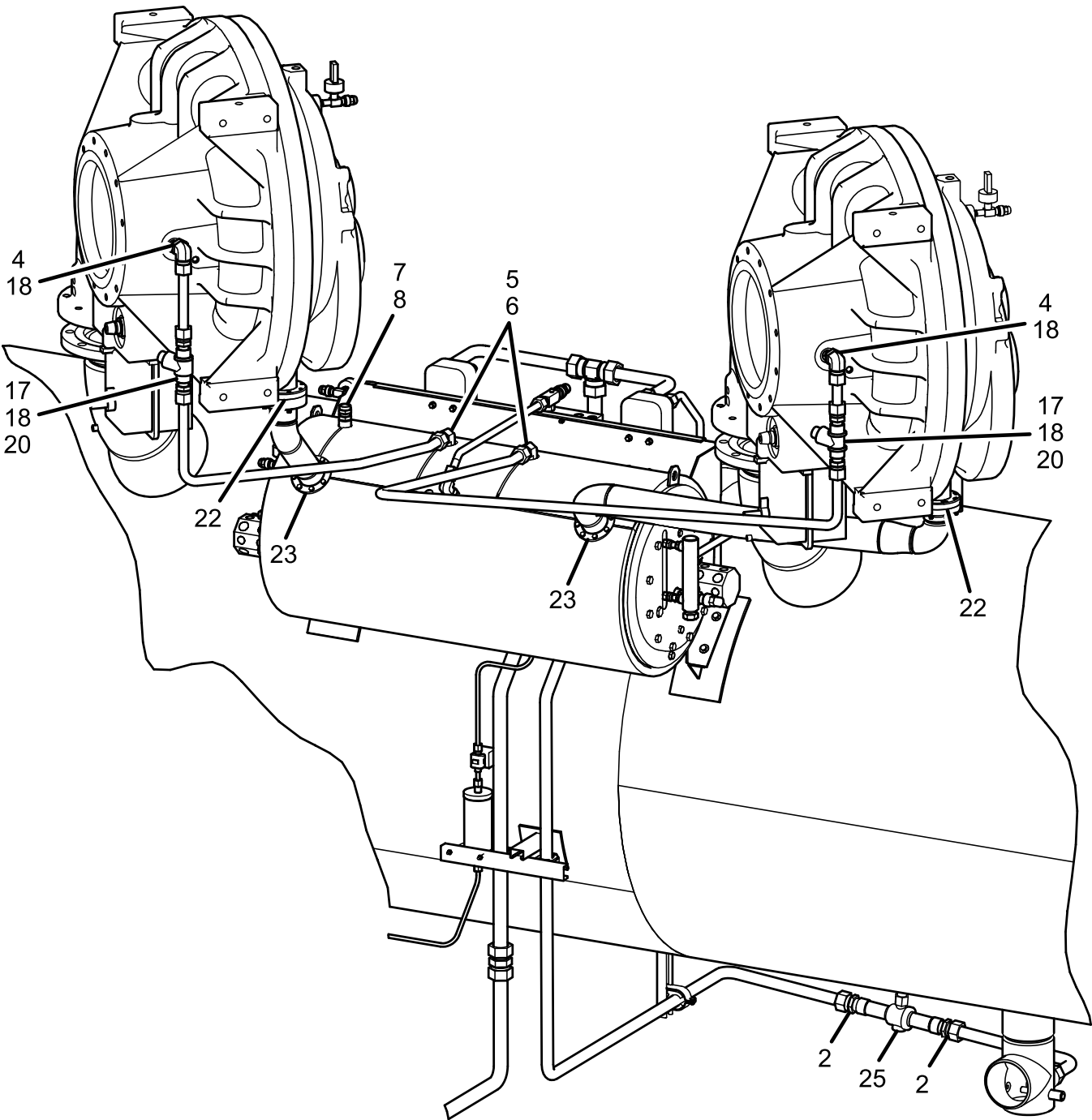


FIGURE 3 - YD UNIT PIPING (MOD A)

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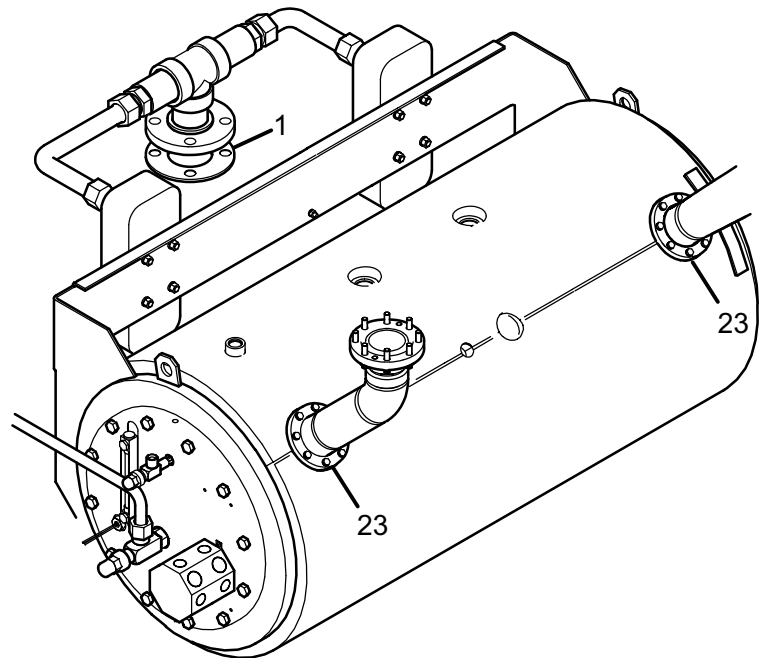
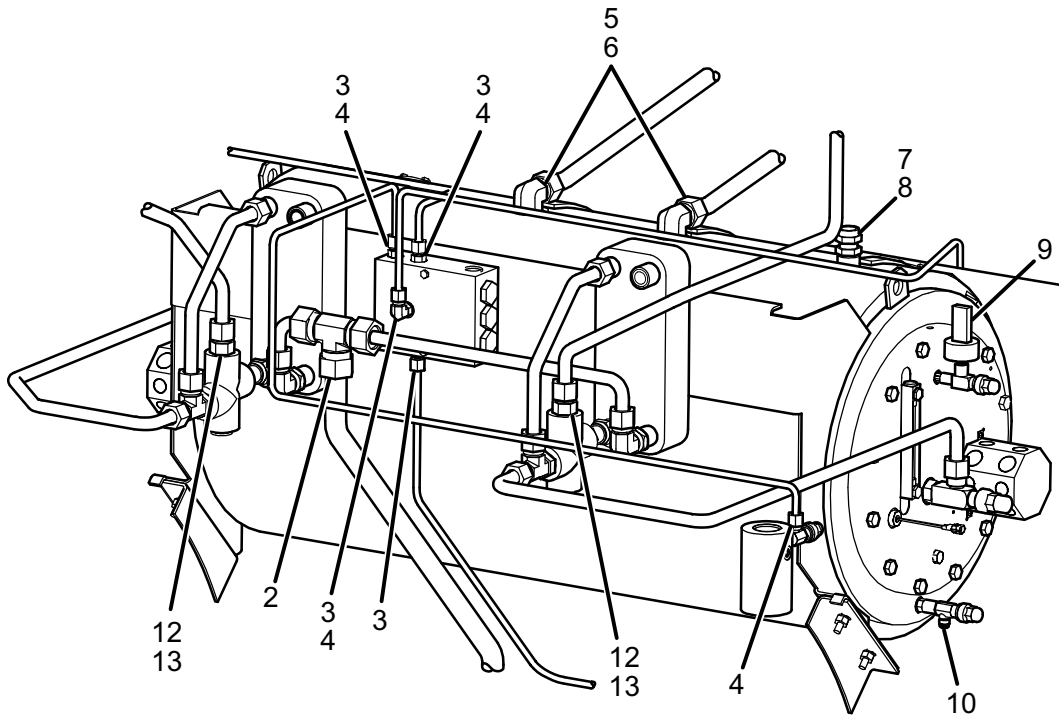


FIGURE 4 - YD UNIT PIPING (MOD A)

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UNIT PIPING (MOD B-C)

TABLE 3 - YD UNIT PIPING (MOD B-C)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Transducer, Pressure	025 28678 006	4	6, 7
2	Transducer, Pressure	025 28678 112	1	6
10	Valve, Ball 1-3/8 Ods Conn	022 09750 000	1	5
11	Valve, Stop Ang Vertical	022 10054 000	2	7, 8
12	Valve, Solenoid 3/8 Orfs N.C.	025 35150 002	1	5, 7
12A	Solenoid, Coil Replacement	025 37841 001	-	8
13	Valve, Check 1-1/8" Ods (1" Oil Sump Vent Line)	023 20876 000	2	9
	Valve, Check 1-5/8" Ods (1-1/2" Oil Sump Vent Line)	023 24368 000	2	9
18	Valve, Check 3/8 O-Ring Face	022 11329 000	2	8
19	Valve, Stop Ang Vertical	022 09577 000	2	7
20	Solenoid, Valve 3/8 Orfs Nc	025 35150 001	2	8
20A	Solenoid, Coil Replacement	025 37841 001	-	8
21	Valve, Ball 1-5/8 Ods Conn	022 08883 000	1	5
22	Adapter, 1-1/2 Orfs X 1-5/8	023 23009 000	2	5, 9
26	Connr, 3/8 O.D. Tube Male	023 18976 000	2	5, 6, 8
27	Connr, 1-1/4 O.D. Tube Male	023 20230 000	1	5
33	Elbow, 1" O.D. Tube 90 Deg Male (1" Oil Sump Vent Line)	023 18292 000	4	9
34	Adapter, 1 Orfs X 1-1/8 Ftg (1" Oil Sump Vent Line)	023 20877 000	4	9
35	Adapter, 1-1/4 Orfs X 1-3/8	023 20879 000	4	5
36	Elbow, 1-1/2"Od Tube 90deg Male	023 21906 000	1	5, 9
43	O-Ring, Neo1 01.720id .118thk M	028 12961 020	1	5, 9
44	O-Ring, Neo1 00.468id .078thk M	028 12961 003	8	5-8
47	O-Ring, Neo1 01.171id .116thk M (1" Oil Sump Vent Line)	028 12961 008	7	9
48	O-Ring, Neo1 00.364id .070thk M	028 12961 012	20	5-8
49	O-Ring, Neo1 00.739id .070thk M	028 12961 015	4	5
50	O-Ring, Neo1 00.926id .070thk M (1" Oil Sump Vent Line)	028 12961 016	8	9
51	O-Ring, Neo1 01.475id .118thk M	028 12961 017	6	5
52	O-Ring, Neo1 01.176id .070thk M	028 12961 022	4	5
53	O-Ring, Neo1 01.489id .118thk M	028 12961 019	4	5, 9
54	O-ring, Neoprene 0.351id .072thk	028 12961 001	1	7
82	Filter, Drier 3/8 Orfs	026 37563 000	3	5, 7
83	Bottle, High Density	028 10579 000	2	7
83A	Cap, High Density Bottle	066 89574 000	2	7

NOTE: Items with an * are NOT represented.

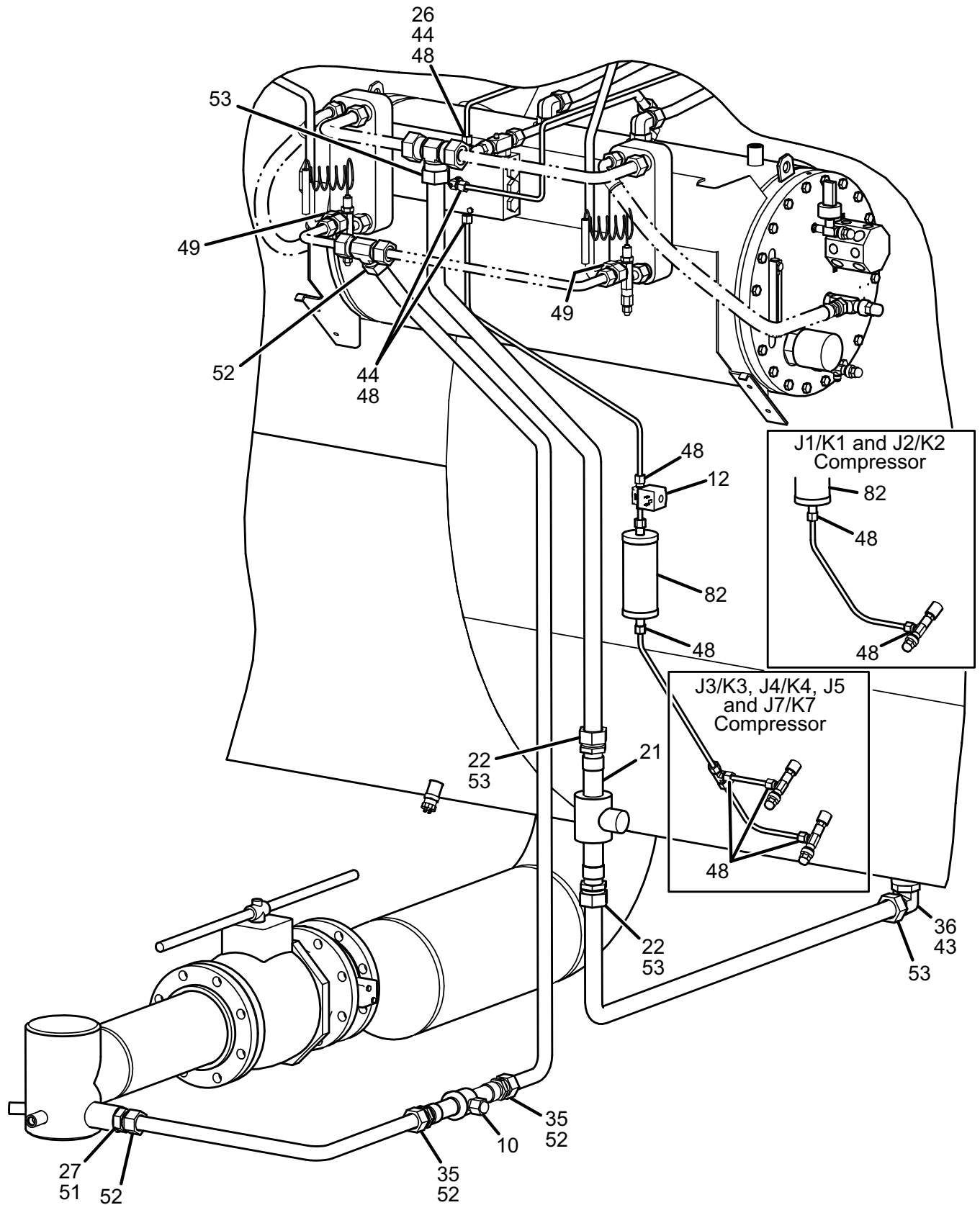


FIGURE 5 - YD UNIT PIPING (MOD B-C)

LD14558

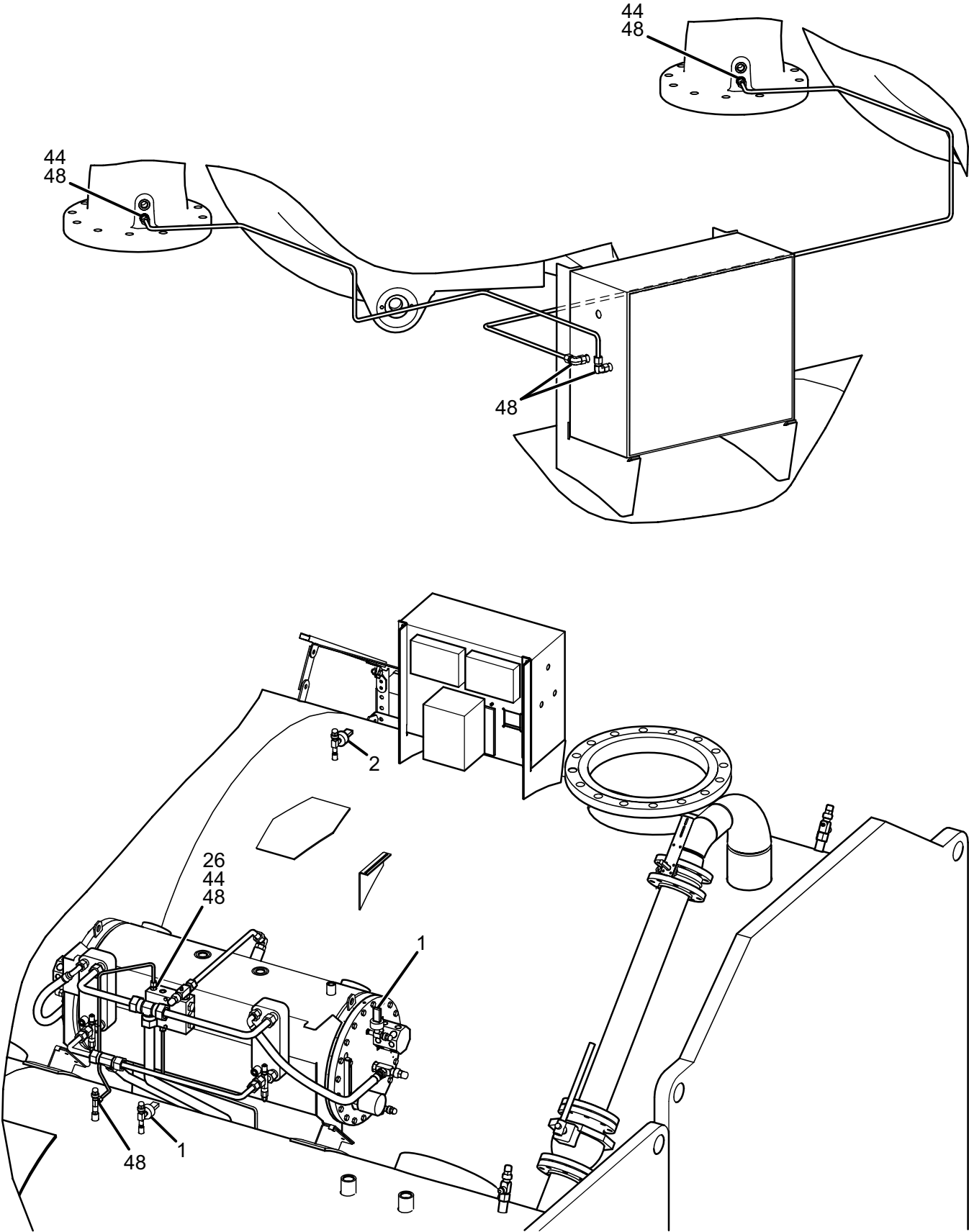


FIGURE 6 - YD UNIT PIPING (MOD B-C)

LD14556

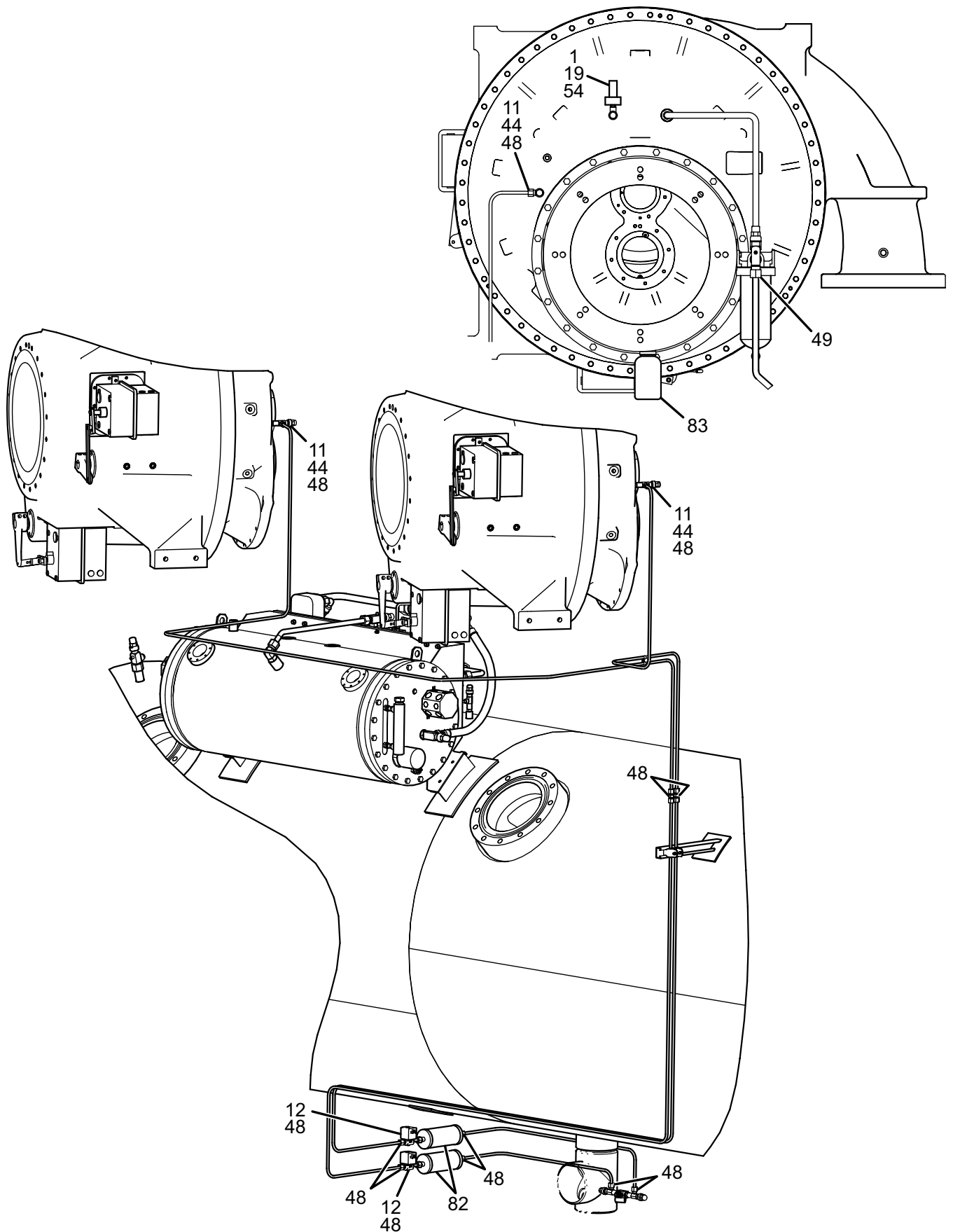
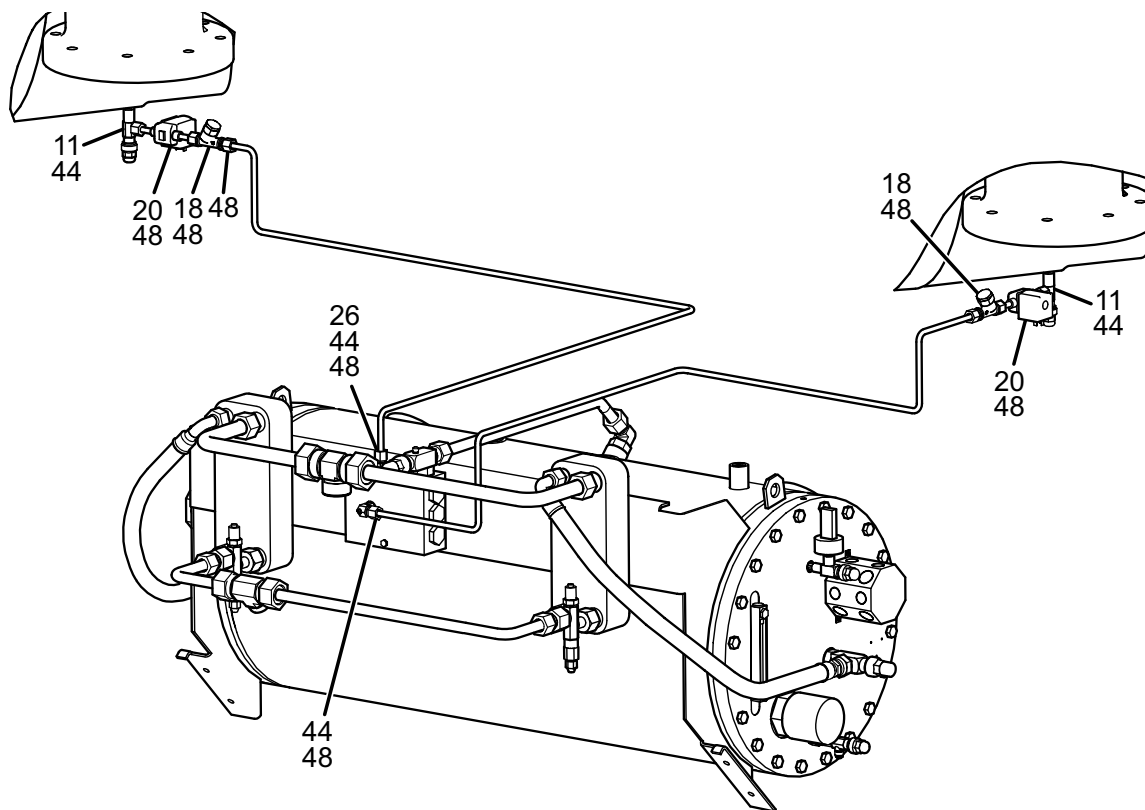
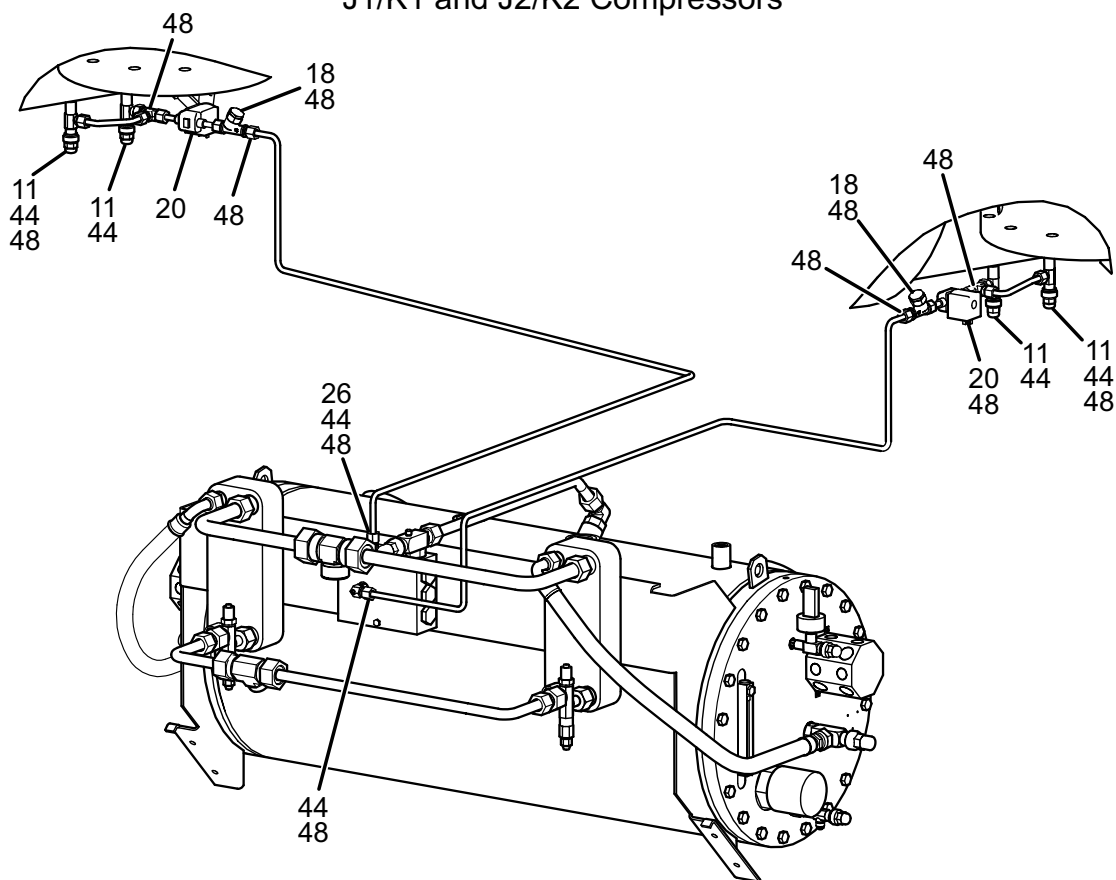


FIGURE 7 - YD UNIT PIPING (MOD B-C)

LD14558



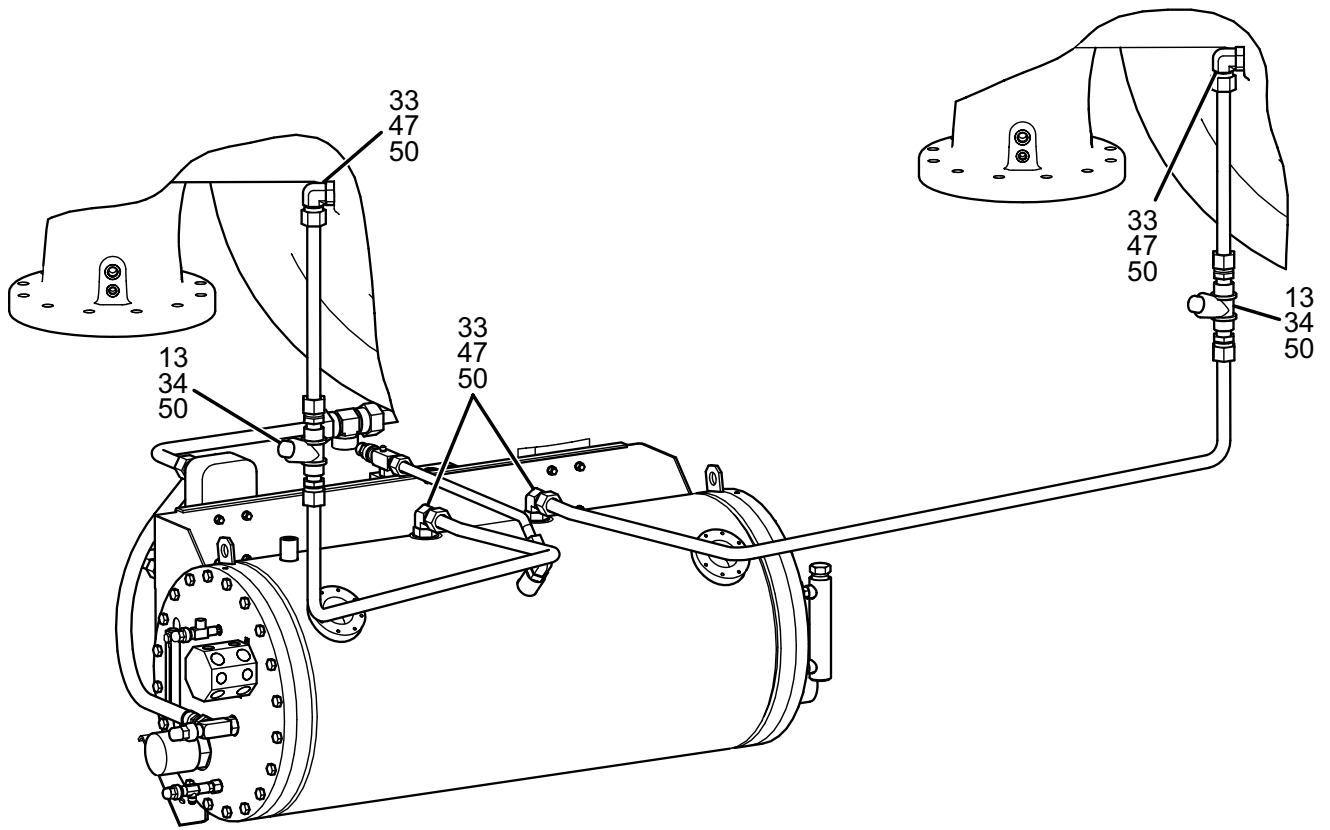
J1/K1 and J2/K2 Compressors



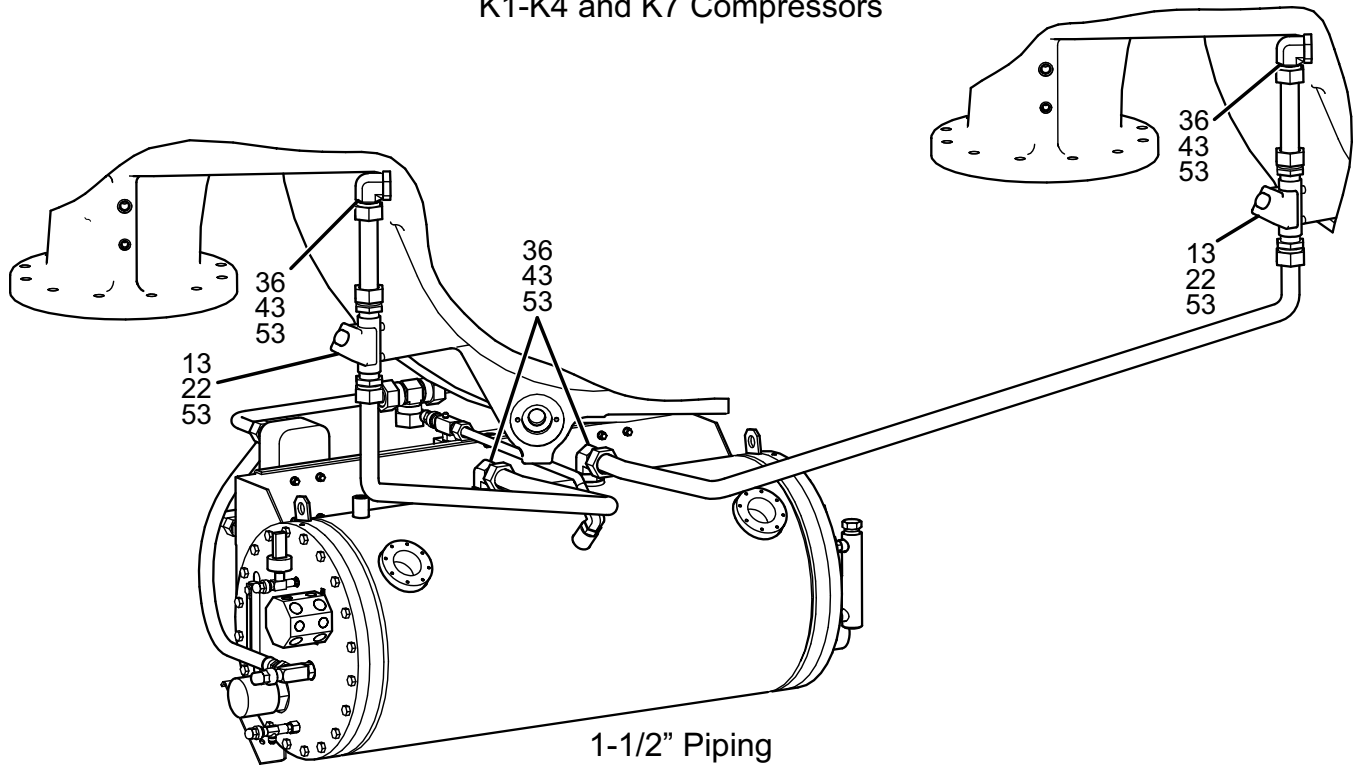
J3/K3, J4/K4, J5 and J7/K7 Compressors

FIGURE 8 - YD UNIT PIPING (MOD B-C)

LD14562



1" Piping
J1-J5,
K1-K4 and K7 Compressors



1-1/2" Piping
K3-K4, J7/K7 Compressors

FIGURE 9 - YD UNIT PIPING (MOD B-C)

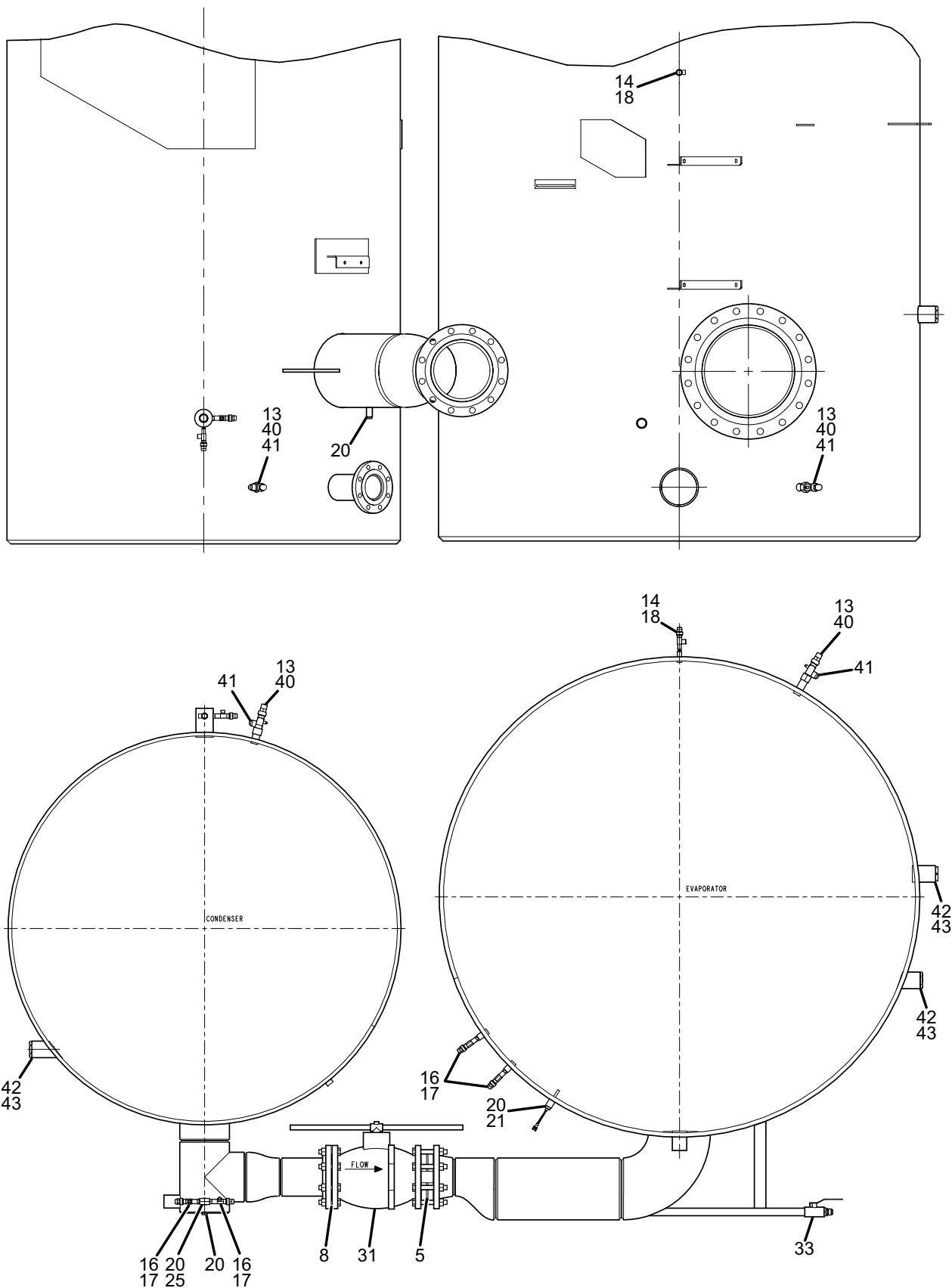
LD14565

EVAPORATOR / CONDENSER

TABLE 4 - YD EVAPORATOR / CONDENSER (MOD A)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
5	Valve, Butterfly Size 5 (J1-J3 X, Y Shells)	022 10642 005	1	10
	Valve, Butterfly Size 6 (J4-J5 Z, A Shells)	022 10642 006	1	10
8	Gasket, Ansi 6-150#	028 15075 112	2	10
13	Valve, Stop Ang Vertical	022 09573 000	2	10
14	Valve, Stop Ang Vertical	022 09577 000	2	10
16	Valve, Stop Ang Vertical	022 10054 000	2	10
17	O-Ring, Neo1 00.468id .078thk M	028 12961 003	2	10
18	O-Ring, Neo1 00.351id .072thk M	028 12961 001	2	10
20	O-Ring, Neo1 00.644id .087thk M	028 12961 004	4	10
21	Sensor, Temp 3000 Ohms At 25deg	025 34159 000	1	10
25	Tee, Straight Thread Branch	023 20849 000	1	10
31	Valve, Ball 6" Flanged	022 10609 000	1	10
33	Valve, Ball 1 Npti X 1 Npti:	022 06873 000	1	10
40	Gasket, Seal 1 Od X 7/8 Id X	028 04836 000	2	10
41	Gasket, Fla 3/4 Od Tube	028 09211 000	2	10
42	O-Ring, Neo 2.090id .118 Thk	028 12961 036	2	10
43	Plug, Sight 2-1/4-12Un-2a	023 17197 000	2	10

NOTE: Items with an * are NOT represented.



NOTE: J4 Compressor / Z Shells Shown

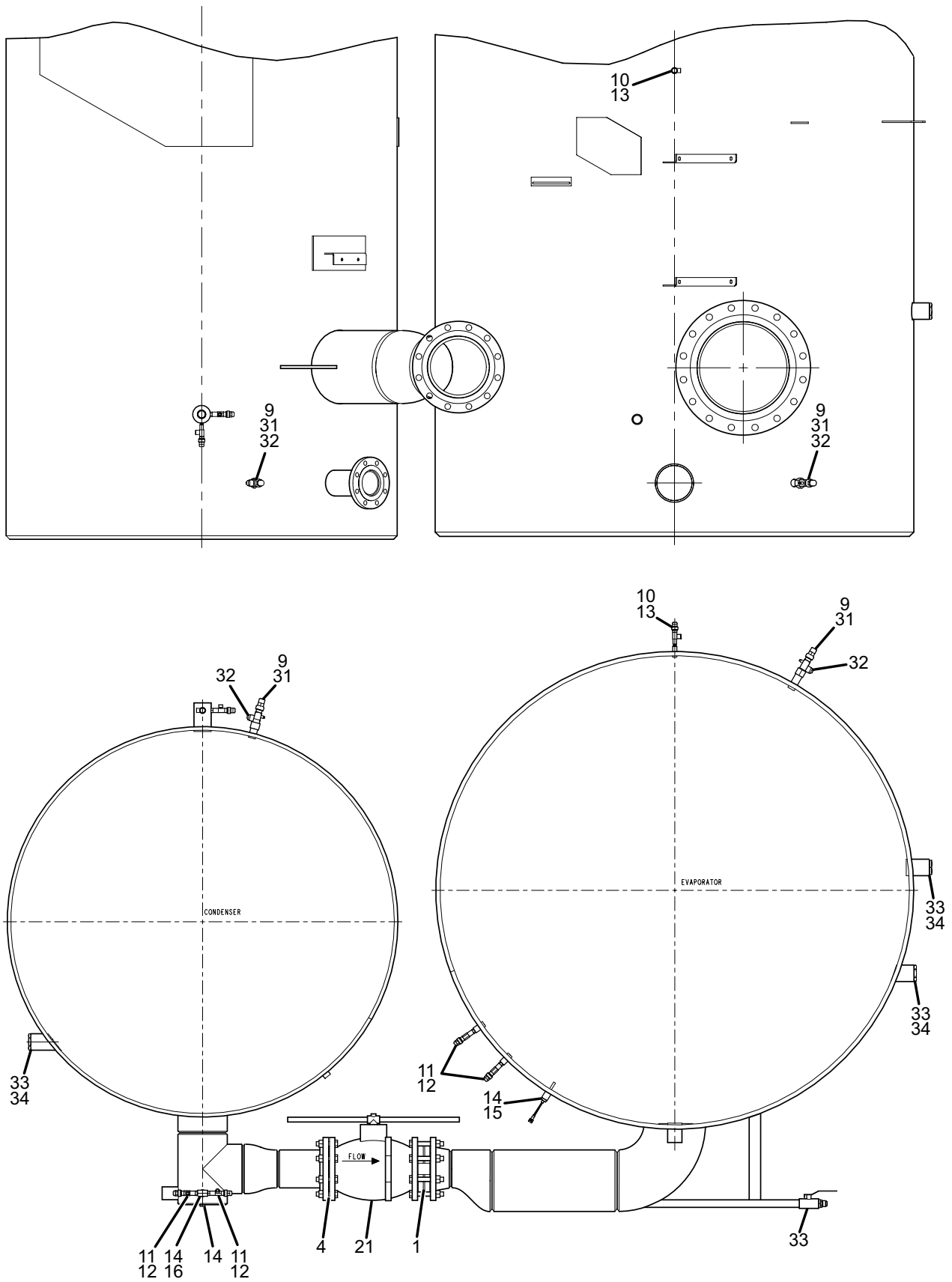
FIGURE 10 - YD EVAPORATOR / CONDENSER (MOD A)

LD15196

TABLE 5 - YD EVAPORATOR / CONDENSER (MOD B)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Valve, Butterfly Size 5 (J1-J3, J4 F Shell)	022 10642 005	1	11
	Valve, Butterfly Size 6 (J4 E Shell, J5, J7)	022 10642 006	1	11
4	Gasket, Ansi 6-150#	028 15075 112	2	11
9	Valve, Stop Ang Vertical	022 09573 000	2	11
10	Valve, Stop Ang Vertical	022 09577 000	2	11
11	Valve, Stop Ang Vertical	022 10054 000	2	11
12	O-Ring, Neo1 00.468id .078thk M	028 12961 003	2	11
13	O-Ring, Neo1 00.351id .072thk M	028 12961 001	2	11
14	O-Ring, Neo1 00.644id .087thk M	028 12961 004	2	11
15	Sensor, Temp 3000 Ohms At 25deg	025 34159 000	1	11
16	Tee, Straight Thread Branch	023 20849 000	1	11
21	Valve, Ball 6" Flanged	022 10609 000	1	11
23	Valve, Ball 1 Npti X 1 Npti:	022 06873 000	1	11
25	Plug, Hex Hd 3/4	023 18280 000	1	11
31	Gasket, Seal 1 Od X 7/8 Id X	028 04836 000	2	11
32	Gasket Fla 3/4 Od Tube:	028 09211 000	2	11
33	O-Ring, Neo 2.090id .118 Thk	028 12961 036	2	11
34	Plug, Sight 2-1/4-12Un-2a	023 17197 000	2	11

NOTE: Items with an * are NOT represented.



NOTE: J4 Compressor / F Shells Shown

FIGURE 11 - YD EVAPORATOR / CONDENSER (MOD B)

LD15197

TABLE 6 - YD EVAPORATOR / CONDENSER (MOD C)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Valve, Butterfly Size 5" (K1-K2, and K3 E-C Shells)	022 10642 005	1	12
1A	O-Ring, Neo 5.975 x .037 x .275 (K1-K2, and K3 E-C Shells)	028 12961 027	1	12
1	Valve, Butterfly Size 6" (K3 F-D Shells, and K4-K7)	022 10642 006	1	12
1A	O-Ring, Neo 6.725 x .040 x .275 (K3 F-D Shells, and K4-K7)	028 12961 028	1	12
6	Gasket, ANSI 6-150#	028 15075 112	2	12
7	Valve, Stop Angle	022 09573 000	2	12
8	Valve, Stop Angle	022 09577 000	2	12
9	Valve, Stop Angle	022 10054 000	5	12
10	O-Ring, Neo 0.468id .078thk	028 12961 003	5	12
11	O-Ring, Neo 0.35id .072thk	028 12961 001	2	12
12	O-Ring, Neo 0.644id .087thk	028 12961 004	3	12
13	Sensor, Temperature 3000 Ohms (E-C Shells)	025 34159 000	1	12
13	Sensor, Temperature 3000 Ohms (F-D Shells)	025 41904 000	1	12
20	Valve, Ball Flanged	022 10609 000	1	12
21	O-Ring, Neo 1.171id .116thk	028 12961 008	1	12
23	Valve, Ball 1 Npti x 1 Npti	028 04836 000	1	12
30	Gasket, Seal 1" Od x 7/8 id	028 04836 000	2	12
33	O-Ring, Neo 2.090id .118thk	028 12961 036	2	12
34	Plug, Sight 2-1/4-12Un-2a	023 17197 000	2	12

NOTE: Items with an * are NOT represented.

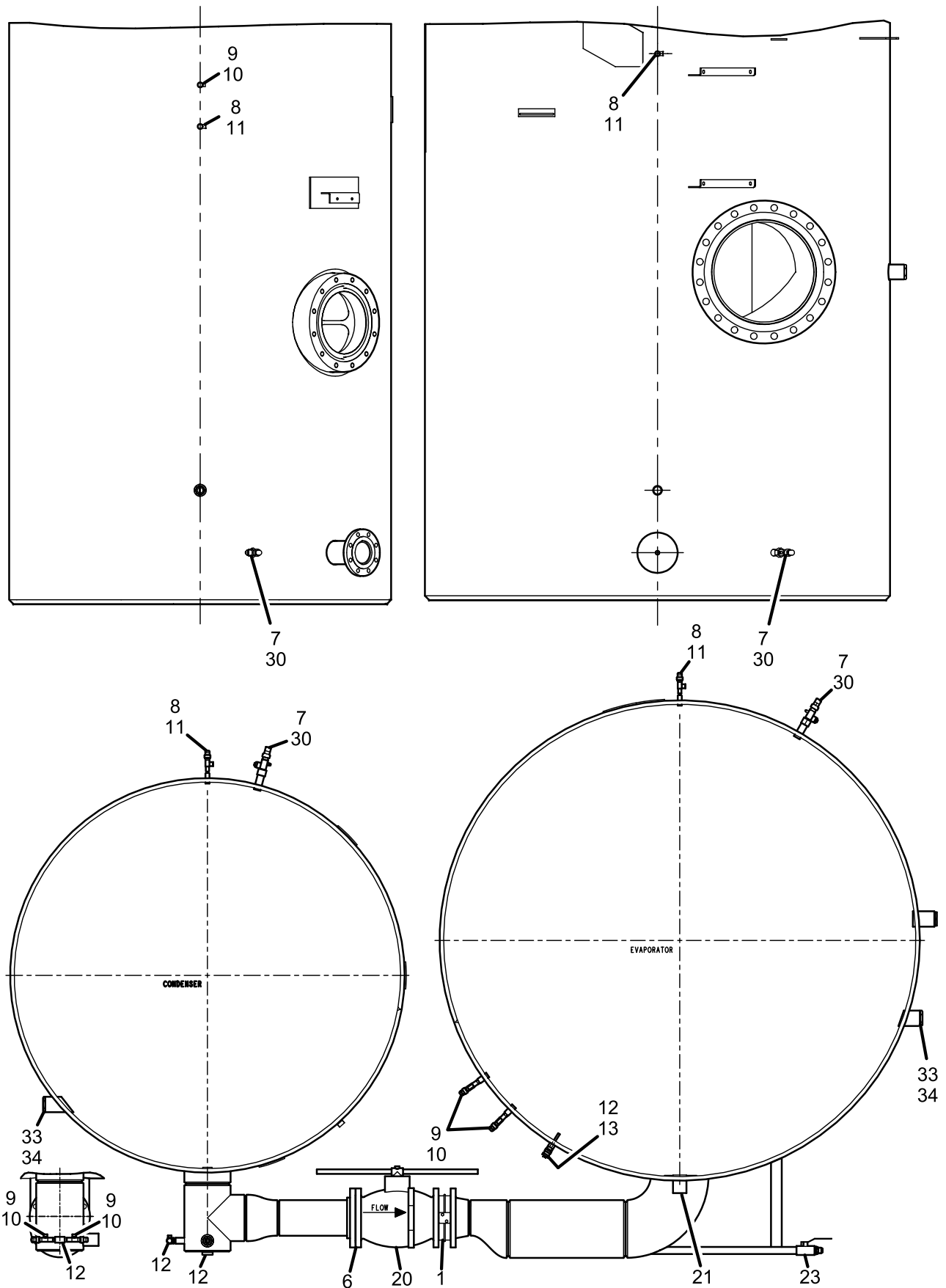


FIGURE 12 - YD EVAPORATOR / CONDENSER (MOD C)

LD15186

OIL PUMP HOUSING

TABLE 7 - YD OIL PUMP HOUSING (MOD A)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Oil Cooler	026 37515 000	2	13
2	Seal, O-Ring (1-3/16")	028 12961 015	6	13
3	Seal, O-Ring (1-7/16")	028 12961 016	2	13
4	Valve, Control Thermostatic	022 09569 000	2	13
5	Seal, O-Ring (1-1/16")	028 12961 006	4	13
6	Tee, Oil Pump Housing	375 47476 000	1	13
7	Seal, O-Ring (1-5/8")	028 12961 017	2	13
8	Seal, O-Ring (1 11/16")	028 12961 022	2	13
9	Valve, Stop Vertical Angle	022 10046 000	1	13
10	Seal, O-Ring (1-3/16")	028 12961 015	2	13
11	Seal, O-Ring (1-1/16")	028 12961 006	2	13
12	Block, Oil Eductor	026 37951 000	1	13
13	Seal, O-Ring (1-3/16")	028 12961 015	8	13
14	Cage, Liquid Level Sight	026 37571 000	2	13
15	Seal, O-Ring (1/2")	028 12961 035	4	13
16	Valve, Stop Vertical Angle	022 10047 000	2	13
17	Seal, O-Ring (1 1/16")	028 12961 006	2	13
18	Box, Electrical, 4 Octagon	025 33238 000	2	13
19	Cover, Filter Output Assembly	375 26580 000	2	13
20	Oil Pump Housing	375 47441 000	1	13
21	Seal, O-Ring (1 11/16")	028 12961 022	2	13
22	Oil Heater, Retrofit Kit for 230/60Hz (replaces 025 37858 001)	375 66801 001	1	-
22A	Heater, 230V 500W	025 40937 000	1	-
22	Oil Heater, Retrofit Kit for 400/50Hz (replaces 025 37858 002)	375 66801 002	1	-
22A	Heater, 200V 500W	025 40936 000	1	-
22	Oil Heater, Retrofit Kit for 460/60Hz (replaces 025 37858 003)	375 66801 003	1	-
22A	Heater, 230V 500W	025 40937 000	1	-
44	Valve, Relief 7/8-14unf-2a	022 10077 000	1	13
46	O-ring, Neoprene .755id .097thk	028 12961 005	1	13

NOTE: Items with an * are NOT represented.

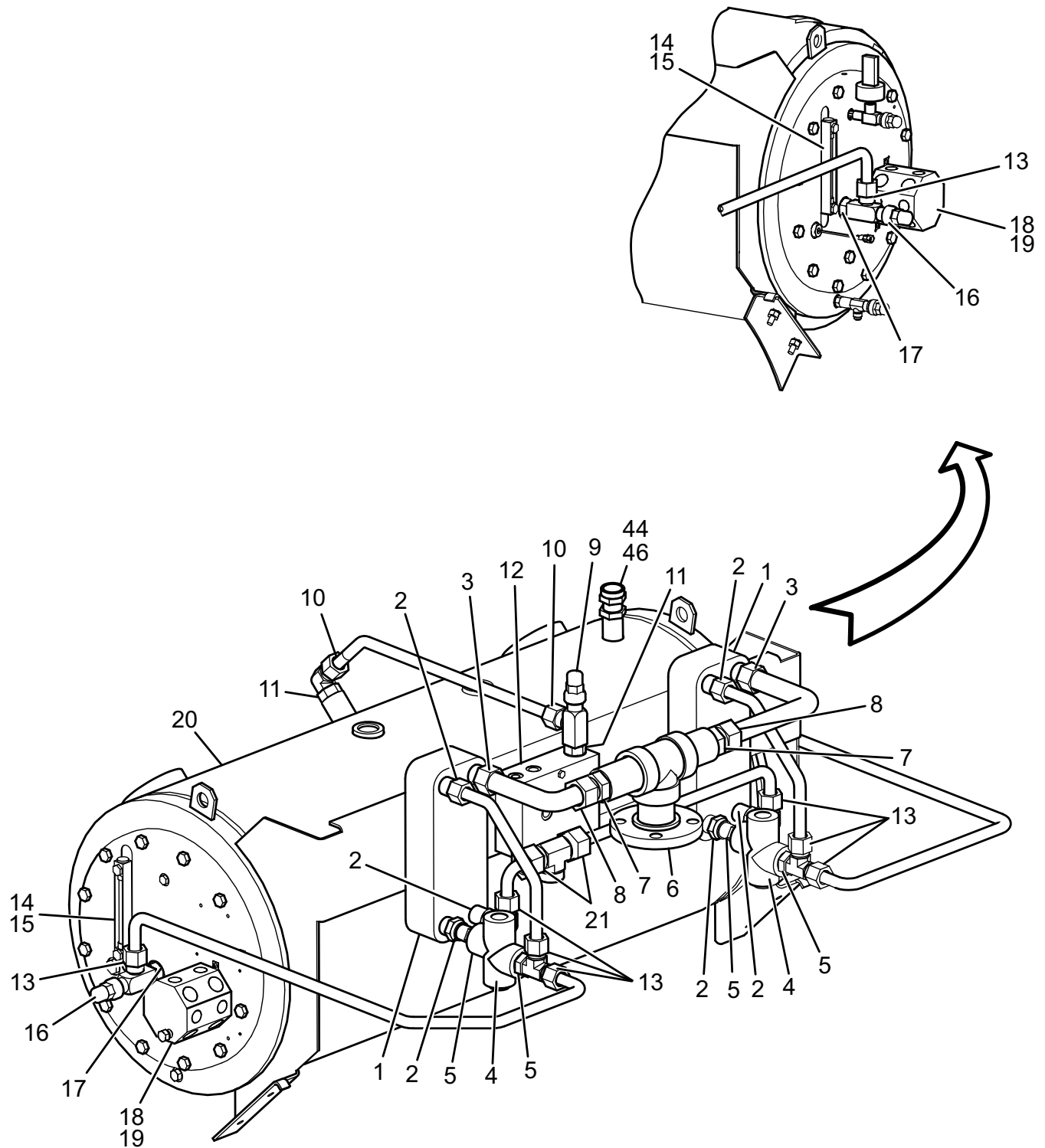


FIGURE 13 - YD (MOD A) OIL PUMP HOUSING

LD09100

OIL PUMP HOUSING

TABLE 8 - YD OIL PUMP HOUSING (MOD B-C)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	O-ring, Neo 16.45id .275thk M	028 15439 000	2	14
2	Pump, Oil 20 Gpm	026 46326 001	2	*
3	Plate, Spacer	075 46386 000	2	14
4	Cooler, Oil K1 Thru K4 Compressor	026 43053 000	2	14
	Cooler, Oil K7 Compressor	026 43054 000	2	14
5	Gage, Liquid Level Sight Front	026 37571 000	1	14
6	O-Ring, Neo1 00.739id .070thk M	028 12961 015	10	14
7	Tee, Union 1-1/2"	023 21907 000	1	14
8	O-Ring, Neo1 01.489id .118thk M	028 12961 019	2	14
10	O-Ring, Neo1 01.176id .070thk M	028 12961 022	2	14
11	Sleeve, Reducing 1-1/2 To 1	023 20880 018	2	14
12	Nut, 1-1/4 O.D. Tube	023 20231 000	2	14
13	O-Ring, Neo1 00.926id .070thk M	028 12961 016	4	14
14	Sleeve, 1" O.D. Tube	023 20827 006	2	14
15	Nut, 1" O.D. Tube	023 18287 000	2	14
17	Box, Elec 4 Octagon X 4 Deep	025 33238 000	2	14
19	O-Ring, Neo1 00.351id .072thk M	028 12961 001	8	14
20	Terminal, Hv Fused Glass	025 32933 000	6	*
21	Valve, Stop Ang Vertical	022 09577 000	1	14
22	O-Ring, Neo1 00.644id .087thk M	028 12961 004	2	14
23	Block, Oil Eductor YD	026 37951 000	1	14
24	O-Ring, Neo1 00.924id .116thk M	028 12961 006	4	14
25	Valve, Stop Ang Vertical	022 10047 000	2	14
26	Sensor, Temp 50,000 Ohms Din	025 39993 000	1	14
28	Valve, Thermal Expansion	025 38170 000	2	14
29	Filter, In-Line Orfs	023 20878 001	2	14
34	Elbow, 3/4 O.D. Tube 90 Deg Male	023 18291 000	1	14
35	Valve, Stop Ang Vertical	022 09578 000	1	14
36	O-Ring, Neo1 00.487id .103thk M	028 12961 035	2	14
37	Tee, Union 1-1/4	023 20843 000	1	14
38	Sleeve, Reducing 1-1/4 To 3/4	023 20880 016	2	14
40	O-Ring, Neo1 00.468id .078thk M	028 12961 003	3	14
41	Reducer, Straight Thread 3/4	023 22870 000	1	14
42	200-346 Volt Heater	025 40704 000	2	14
	380 - 416 Volt Heater	025 40705 000	2	14
	440 - 480 Volt Heater	025 40706 000	2	14
	575 - 600 Volt Heater	025 42479 000	2	14
43	O-Ring, Neo1 02.337id .118thk M	028 12961 010	2	14
51	Term Push-On Str 14-10	025 09455 000	3	*
52	Term Push On Str 18-14	025 25920 000	3	*
56	Valve, Stop Ang Vertical	022 10046 000	1	14
60	Liquid Level Housing	375 55554 000	1	14

TABLE 8 - YD OIL PUMP HOUSING (MOD B-C) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
61	Connr, Swivel 3/8 Od Tube	023 22121 000	2	14
62	Connr, 3/8 Od Tube Male	023 22121 000	2	14
63	Seal, Washer O Ring	021 31652 000	2	14
64	O-Ring, Neo1 00.364id .070thk M	028 12961 012	2	14
68	Hose, Refrig Orfs 3/4" X 35"	026 43093 035	1	14
69	Hose, Refrig Orfs 3/4" X 28"	026 43093 028	1	14
70	Transmitter, with Conduit Box and Connector	325 42383 002	1	14
70A	Connector, for Transmitter at Conduit Box	025 40232 000	1	14
71	Gasket, Seal 1 Od X 7/8 Id X	028 04836 000	1	14
100	Valve, Relief 7/8-14unf-2a (J1/K1, J2/K2)	022 10077 000	1	14
100	Plug, Hex Hd 7/8 (J3/K3, J4/K4, J5, J7/K7)	023 18961 000	1	14
100A	O-Ring, Neo1 00.755id .097thk M	028 12961 005	1	14

NOTE: Items with an * are NOT represented.

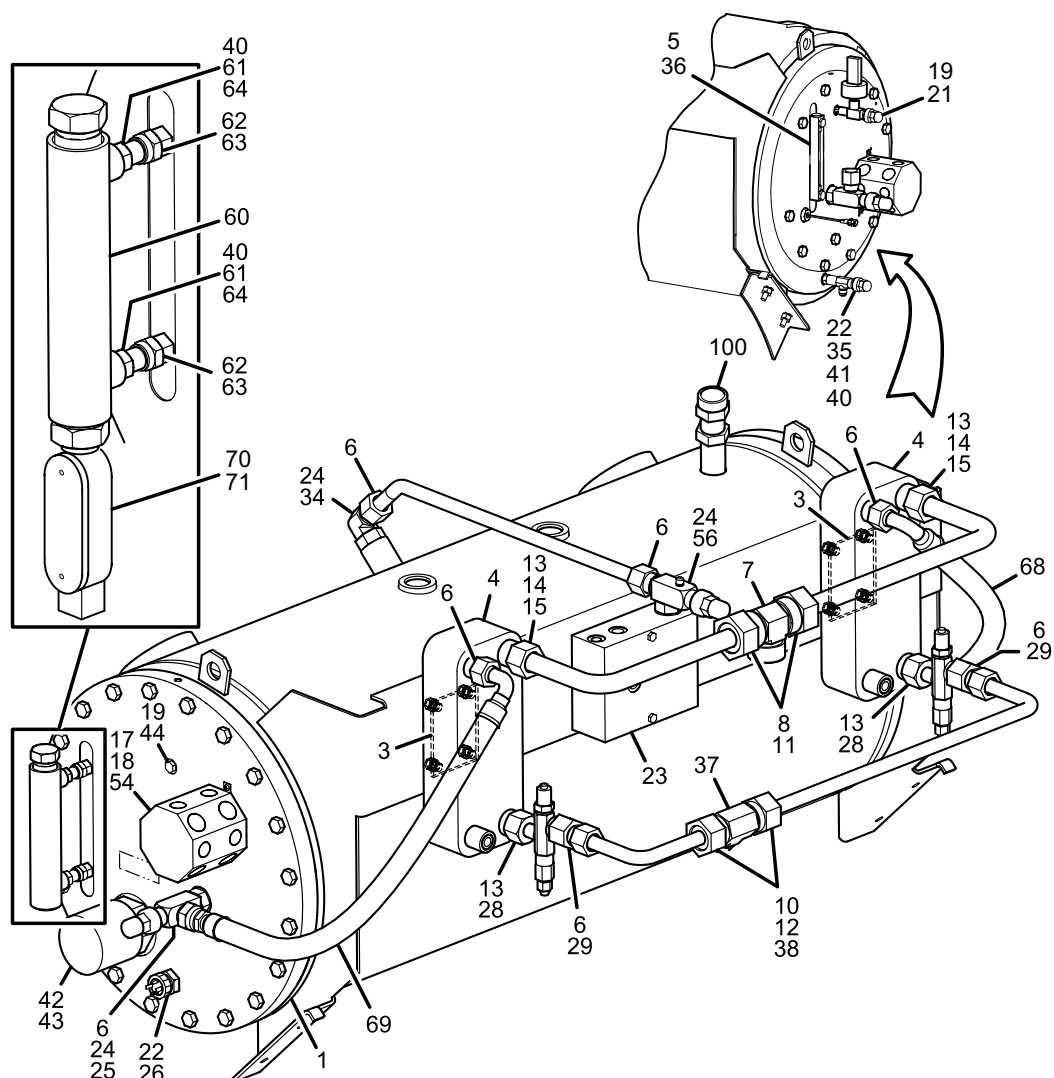


FIGURE 14 - YD OIL PUMP HOUSING (MOD B-C)

LD09100

OIL FILTER

TABLE 9 - OIL FILTER ARRANGEMENT

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
SINGLE OIL FILTER				
1	Filter, Oil Seubert Housing (Prior to 2/2012)	026 37589 002	1	15
1A	Filter Element, Replacement	026 32831 000	1	*
1B	O-ring, Filter Housing 3.484ID .139THK	028 14404 000	1	*
1	Filter, Oil Seubert Housing (After 2/2012)	026 47427 000	1	15
2	Valve, Stop Angle Vertical	022 10092 000	1	15
3	Valve, Stop Angle Vertical	022 10046 000	2	15
7	O-ring, Neoprene .351 ID .072 Thk	028 12961 001	1	15
8	O-ring, Neoprene .924 ID .116 thk	028 12961 006	2	15
9	O-ring, Neoprene .739 ID .070 thk	028 12961 015	1	15
10	Connr, 3/4 OD Tube Male	023 18290 000	1	15
DUAL OIL FILTERS				
1	Filter, Oil Seubert Housing	026 37589 001	2	15
1A	Filter Element, Replacement	026 32831 000	2	*
1B	O-ring, Filter Housing 3.484ID .139THK	028 14404 000	2	*
2	Valve, Stop Angle Vertical	022 10092 000	2	15
3	Valve, Stop Angle Vertical	022 10046 000	2	15
7	O-ring, Neoprene .351 ID .072 THK	028 12961 001	2	15
8	O-ring, Neoprene .924 ID .116 THK	028 12961 006	5	15
9	O-ring, Neoprene .739 ID .070 thk	028 12961 015	6	15
10	Connr, 3/4 OD Tube Male	023 18290 000	1	15
18	Valve, 3-way Ball	022 10094 000	1	15
19	Tee, Union 3/4	023 18913 000	1	15

NOTE: Items with an * are NOT represented.

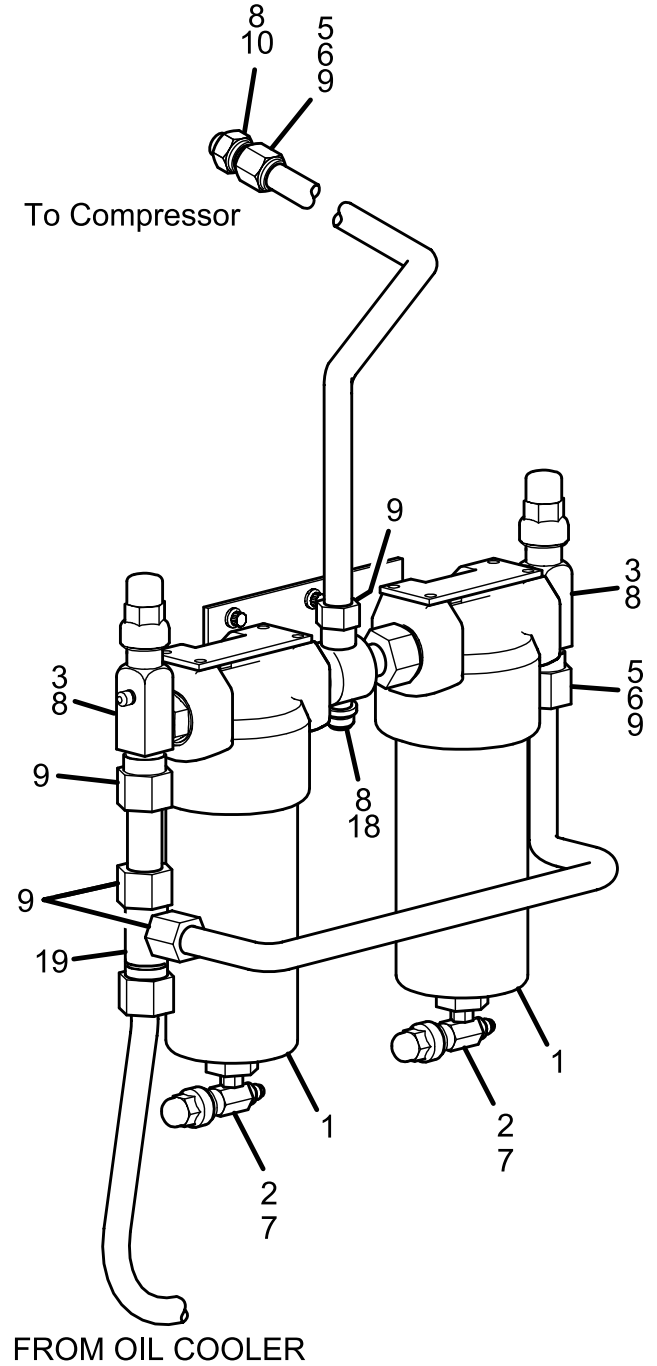
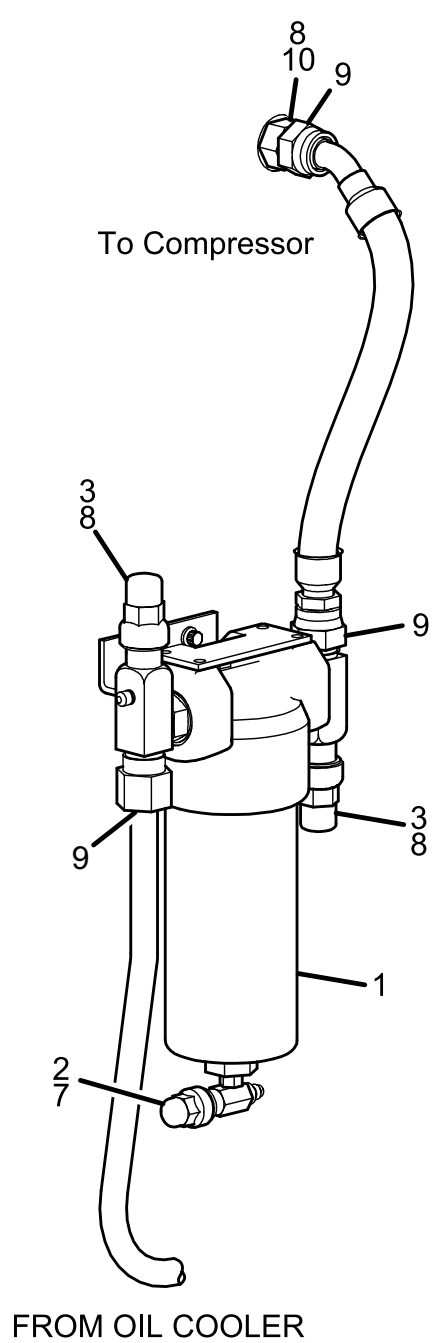


FIGURE 15 - OIL FILTER ARRANGEMENTS

LD14834

COMPRESSOR COMPONENTS

TABLE 10 - YD COMPRESSOR COMPONENTS (J1/J2)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
*2	Bearing, H.S. Front Hg 65-73	064 50618 000	1	16
3	Plug, Pipe Flush Type Hex	023 21738 000	3	19
6	PRV, Motor Actuator with Harness	375 49340 103	2	18
6A	Motor, Actuator	025 29567 001	1	18
6B	Harness, System Wiring	575 49340 201	1	18
7	Orifice, Set Screw	064 51402 000	1	*
*8	Bearing, H.S. Rear Hg 65-73	064 50619 000	1	16
*9	Bearing, L.S. Rear Hg 65-73	064 50621 000	1	16
*10	Bearing, L.S. Front Hg 65-73	064 50620 000	1	16
*11	Bearing, Thrust H.S.	029 20900 002	1	16
12	Screw, Cap 12pt Hd 3/8	021 11148 000	6	16
*13	Collar, Thrust H.S.	064 47904 000	1	16
*14	Collar, Thrust L.S.	064 47770 000	1	16
15	Collar, Impeller Clamping	064 48123 000	1	16
16	Retainer, B.P. Seal Washer	064 50404 000	1	16
17	Bearing, H.S.Reverse Thrust	029 20898 003	1	16
†18	Seal, O-Ring 8 Id X 8-1/4 Od X	028 12255 000	1	16
20	Cover, Prv Shaft Control	064 48861 000	2	18, 20
21	Shaft, Contl Prerot Device	364 50631 000	1	18
22	Sleeve, Flare Hydraulic 3/8 Od	023 10001 000	2	17
23	Hhcs, 0.375-16 X 1.500 Gr 5 Zn	021 18901 000	4	18, 20
24	Washer, Spring	064 50405 000	1	16
25	Plug, Hex Hd 1-1/16	023 18295 000	1	17
26	Spacer, .50 Lg X .33 Id X .63od	064 50611 000	1	19
27	Orifice, Hs Oil Feed	064 48034 000	1	16
30	Nut, Flare Hydraulic 3/8 Od	023 09673 000	2	17
33	Lever, PRV Internal	064 50726 000	1	18
34	Lever, PRV External	064 50613 000	2	18
35	Arm, PRV Motor	064 50614 000	1	18
36	Link, External PRV & Mot T108	064 28261 000	2	18
37	Rod, Adjustable PRV & VGD	364 51753 700	2	18
38	Probe, Proximity 2 Piece Kit	364 51806 000	1	17
39	Plug, Hex Hd 7/16	023 18279 000	1	17
40	Retainer, Brg S Stage Turbo	064 46886 000	3	16
41	Plug, Pipe 1/4 Hex Socket	023 01973 000	2	16
42	Sensor, Temperature 50,000 Ohms	025 33288 000	1	18
43	Connr, Flare Hydraulic 1/4 Od	023 09668 000	1	16
45	Connr, Fla M X M 3/8 Od Fla	023 20853 000	1	17
†46	Seal, O-Ring .351 Id X	028 13832 000	1	17
47	Elbow, Cinch 3/8 Tube X	023 22141 000	1	*
48	Stud, Conts Thd 5/8-11 Unc-3a	021 31782 000	2	17, 19
49	Nut, Hex 5/8 -11 Unc-2b	021 17659 000	2	17

* Included in Bearing Kit † Included in O-Ring Kit

TABLE 10 - YD COMPRESSOR COMPONENTS (J1/J2) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
†51	Seal, O-Ring 2-9/16 Id X 2-3/4	028 11976 000	3	16
†52	Seal, O-Ring Neoprene	028 12961 001	1	16, 17
53	Elbow, Flare Hydraulic 3/8 Od	023 18920 000	3	18
54	Spacer, Flanged, PRV & VGD	064 50612 000	4	18
55	Fillpiece, Prerot Device	064 10821 000	2	18
57	Screw, Cap 12 Pt Hd 1/2	021 11998 000	1	18
58	Screw, Cap 12 Pt Hd 1/2	021 11515 000	3	16
59	Screw, Cap 12pt Hd 3/8	021 17618 000	2	18
60	Bracket, Support Lower PRV (J1)	064 48851 000	1	16, 18
60	Bracket, Support Lower PRV (J2)	064 48850 000	1	16, 18
61	Screw, Cap 12 Pt Hd 1/4	021 11505 000	3	16
62	Tube, Tee-Drain	064 51462 000	1	17
65	Washer, Plain Clipped Hardened	021 17593 000	40	17
66	Screw, Cap 12pt Hd 5/8	021 11553 000	38	17
67	Screw, Cap Flat Soc Hd 3/8	021 13856 000	2	16
68	Connr, Cinch 3/8 Tube X	023 06801 000	2	16
69	Screw, Cap Hex 3/8 -16unc	021 01477 000	2	16
71	Hhcs, 0.375-16 X 2.000 Gr 5 BI	021 01510 000	3	16
72	Plate, Mtg	064 47998 000	1	16
73	Header, Spray	064 48003 000	1	16
74	Screw, Set Hex Soc Cup Pt	021 03910 000	1	18
75	Washer, Plain 13/32 Id X 13/16	021 01274 000	2	16
76	Plug, Hex Hd 1-5/16	023 18282 000	1	16
†77	Seal, O-Ring Neoprene	028 12961 008	1	16
78	Screw, Set Hex Soc Cup Pt	021 00774 000	1	16, 19-20
79	Lockwasher, Hel Spg 1/4 Reg	021 05267 000	2	18
81	Nut, Hex 1/4 - 20 Unc-2b	021 00450 000	6	18
82	Pin, Dowel Tapped 3/8 Dia	029 18459 000	3	16
83	Hhcs, 0.250-20 X 1.250 Gr 5 BI	021 01392 000	4	16, 18
84	Screw, Shoulder Soc Hd	021 17557 000	6	16
†85	Seal, O-Ring .301 Id X .064	028 12209 000	1	17
†86	Seal, O-Ring 5/16 Id X	028 12513 000	2	16
87	Gasket, 2-1/2 Od X 2 Id X 1/32	064 47751 000	2	19-20
88	Conn, Oil Drain Hg 65-73	364 50633 000	1	16
89	Valve, Check Oil 1/8 Npte	022 04444 000	1	16
91	Seal, Double Shaft (J1)	029 22428 001	1	16
91	Seal, Double Shaft (J2)	029 22428 000	1	16
91A	C-Ring, Replacement For Shaft Seal	028 14492 000	1	16
†92	Seal, O-Ring 5-5/8 Id X 5-7/8	028 12258 000	1	16
93	Tube, Gear Cooling	064 51249 000	1	16
†94	Seal, O-Ring 1-1/8 Id X 1/8	028 12200 000	4	18, 20
96	Plug, Pipe, Flush Type Hex	023 05366 000	2	16

* Included in Bearing Kit † Included in O-Ring Kit

TABLE 10 - YD COMPRESSOR COMPONENTS (J1/J2) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
98	Hhcs, 0.375-16 X 2.500 Gr 5 Bl	021 10037 000	16	16
101	Tube, .50 Lg +/- .03 X 1/4 Od X	064 49229 000	1	17
102	Tube, H.S. Sol	064 49044 000	1	17
*103	Bearing, L.S. Thrust	029 23760 000	1	16
104	Valve, Stop Ang Vertical	022 09578 000	1	*
105	Screw, Cap Hex Soc Hd 1/4	021 02578 000	16	16
106	Tube, Shaft Seal Oil Supply	364 51755 000	1	17
108	Pin, Slot Spg 3/16 X 1/2	029 04138 000	1	16
109	Screw, Cap Hex 3/8 -16unc	021 09071 000	4	16
†110	Seal, O-Ring Molded 37.050 Id	028 15083 000	1	16
111	Fillpiece, Pretot Device	064 47935 000	1	18
112	Screw, Cap 12pt Hd 3/8	021 11956 000	1	18
114	Strap, Cable T&B L4-18-9-M	025 18167 000	1	17
115	Tee, Instm Union 3/8 Tube	023 10595 000	1	17-19
116	Tube, H.S.Tee	064 48215 000	1	17
†117	Seal, O-Ring Spliced 19.719 Id	028 12227 000	1	16
†118	Seal, O-Ring 4-1/4 Id X 4-1/2	028 12259 000	1	16
†119	Seal, O-Ring Spliced 31.174 Id	028 15072 000	1	16
120	Screw, Cap Hex 1/4 -20unc	021 16826 000	6	16
121	Screw, Cap Hex 3/8 -16unc	021 14374 000	13	16
†123	Seal, O-Ring 3-3/4 Id X 3-15/16	028 15074 000	2	16
124	Seal, O-Ring Neoprene	028 12961 006	1	17
124	Seal, O-Ring Neoprene	028 12961 000	1	17
125	Lever, Internal VGD	064 51215 000	1	16
130	Screw, Cap 12pt Hd 5/16	021 11142 000	2	20
131	Arm, Motor	064 50856 000	1	20
132	Screw, Cap 12 Pt Hd 1/2	021 11926 000	4	20
133	Screw, Cap 12 Pt Hd 1/2	021 31600 000	1	20
134	Nut, Hex Mach Scr #10 - 32	021 08670 000	4	19
135	Lockwasher, Hel Spg #10 Reg	021 05265 000	2	20
136	Screw, Cap Hex Soc Hd #10-32	021 31182 000	2	20
137	Dowel, Pin Str	029 24130 000	2	20
138	Plug, PRV Assembly	064 50632 000	2	20
†139	Seal, O-Ring Neoprene	028 12961 005	2	20
†139	Seal, O-Ring Neoprene	028 12961 000	2	20
†140	Seal, O-Ring 8.234 Id X	028 15078 000	1	20
141	Fillpiece, Pre-Rotation Device	064 50765 000	1	20
142	Plate, Cover Handhole	064 50139 000	1	19
143	Screw, Cap 12 Pt Head 3/8	021 17553 000	1	20
144	Screw, Cap 12 Pt Hd 1/2	021 31125 000	1	20
145	Plug, Hex Hd 9/16	023 18962 000	6	20
†146	Seal, O-Ring Neoprene	028 12961 003	11	20

* Included in Bearing Kit † Included in O-Ring Kit

TABLE 10 - YD COMPRESSOR COMPONENTS (J1/J2) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
147	Link, External VGD	064 50951 000	1	20
148	Plug, Hex Hd 3/4	023 18280 000	2	20
†149	Seal, O-Ring Neoprene	028 12961 004	4	19
151	Shaft, Control PRV Device	364 51220 000	1	19
152	Bushing, Garlock 16du12	029 24100 000	1	20
153	Screw, Cap 12pt Hd 5/16	021 12202 000	1	20
154	Spacer, Hah, Hg - 65-73 VGD	064 51050 000	1	*
155	Tube, L.S. Oil Drain	064 51221 000	1	20
156	Tube, Oil Drain	064 51224 000	1	20
157	Elbow, Cinch 90 Deg 1/2 Od Tube	023 17687 000	1	20
158	Tee, Cinch 1/2 Tube X 1/2 Tube	023 22396 000	1	19
159	Reducer, Cinch 1/2 X 3/8 Od	023 22397 000	1	*
160	Connr, Cinch 1/2 Od Tube X	023 18044 000	1	*
161	Tube, 3/8 Od X .049 X 1-1/2 Lg	064 51463 000	1	*
163	Washer, Plain 9/32 Id X 5/8 Od	021 05165 000	4	*
201	Impeller, 6.5 Eye Hard Coat (J1)	064 50398 001	1	16
201	Impeller, 7.3 Eye Hard Coat (J2)	064 50399 001	1	16
202	Plate, Nozzle Base (J1)	064 50249 000	1	16
202	Plate, Nozzle Base (J2)	064 50793 000	1	16
203	Plate, Diffuser (J1)	064 50400 000	1	16
203	Plate, Diffuser (J2)	064 50401 000	1	16
204	Device, PRV (J1)	364 51450 001	1	16
204	Device, PRV (J2)	364 51450 002	1	16
205	Washer, Spring (J1)	064 50323 000	1	16
205	Washer, Spring (J2)	064 50324 000	1	16
206	Ring, Eye Seal (J1)	064 50341 000	1	16
206	Ring, Eye Seal (J2)	064 50406 000	1	16
207	Retainer, Eye Seal (J1)	064 50252 000	1	16
207	Retainer, Eye Seal (J2)	064 50326 000	1	16
208	Scroll, Rotor (J1/J2)	064 50790 000	1	16
209	Ring, Balance Piston Seal (J1)	064 50402 000	1	16
209	Ring, Balance Piston Seal (J2)	064 50403 000	1	16
210	Retainer, Eye Seal Washer (J1)	064 50321 000	1	16
210	Retainer, Eye Seal Washer (J2)	064 50322 000	1	16
-	Bearing Kit, Compressor (J1/J2)	464 50724 000	-	*
-	O-Ring Kit, Compressor (J1/J2)	464 51842 000	-	*
-	Tool Kit, Compressor (J1/J2)	364K48026 000	-	*

* Included in Bearing Kit † Included in O-Ring Kit

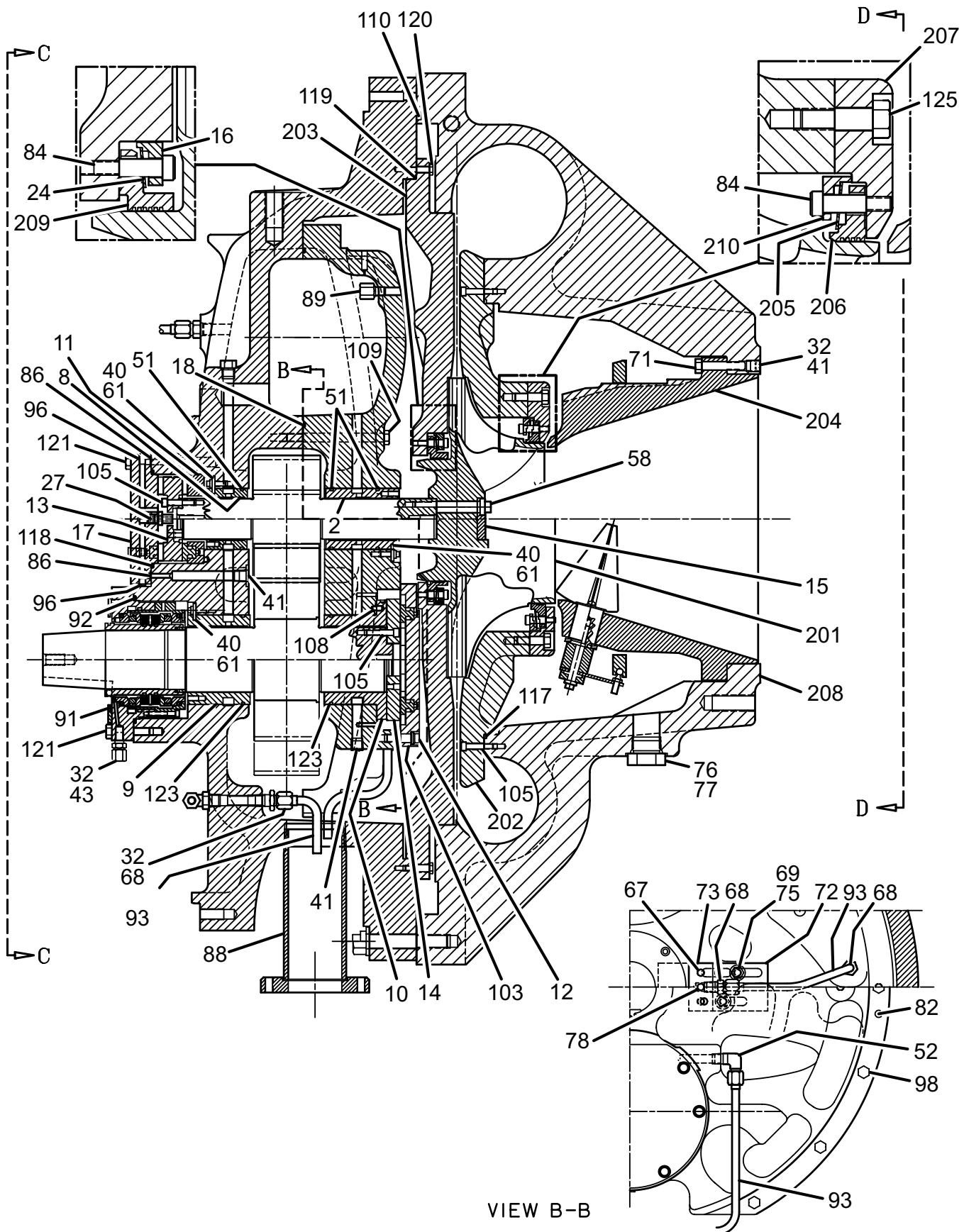


FIGURE 16 - YD COMPRESSOR COMPONENTS (J1/J2)

LD12072

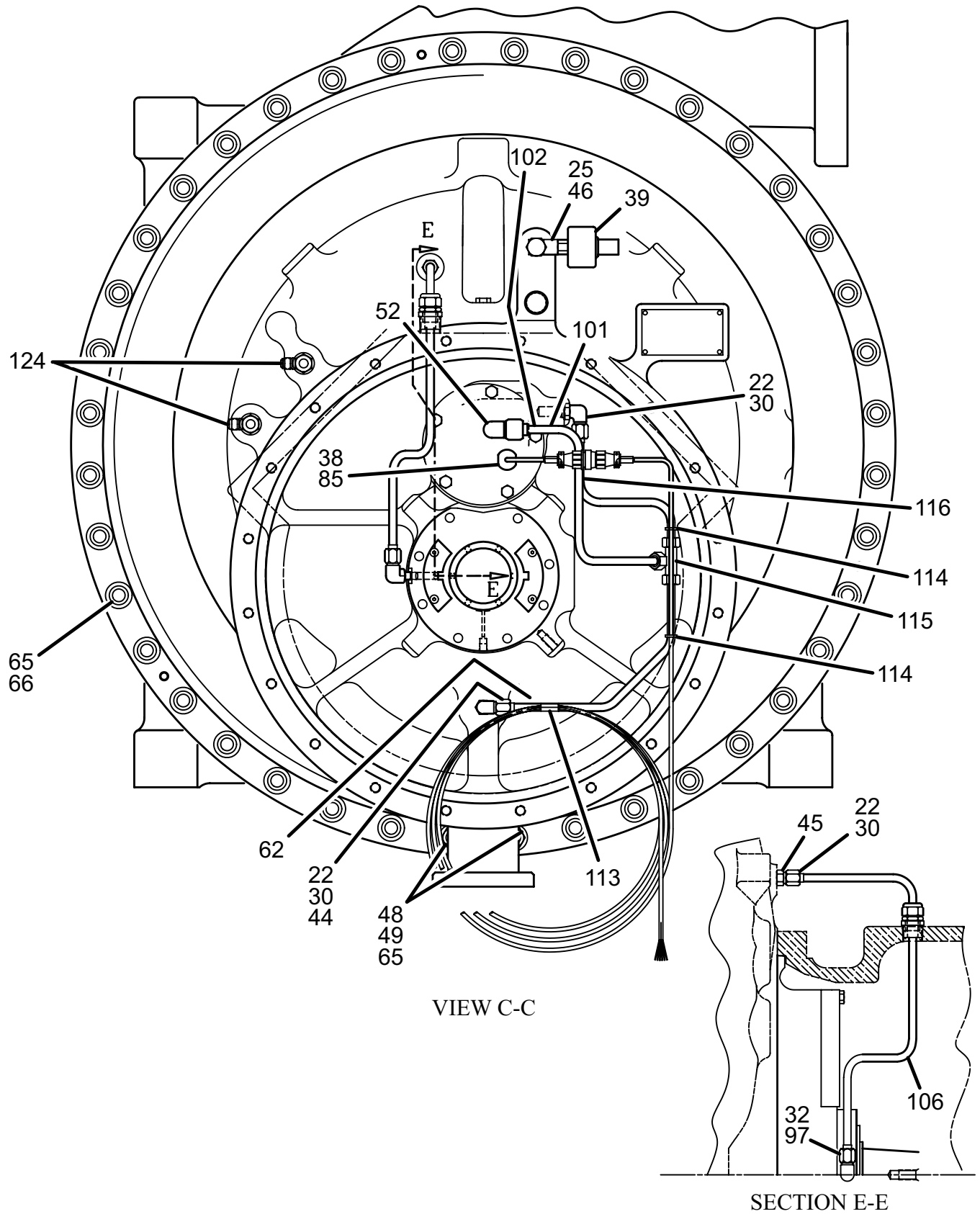


FIGURE 17 - YD COMPRESSOR COMPONENTS (J1/J2)

LD12073

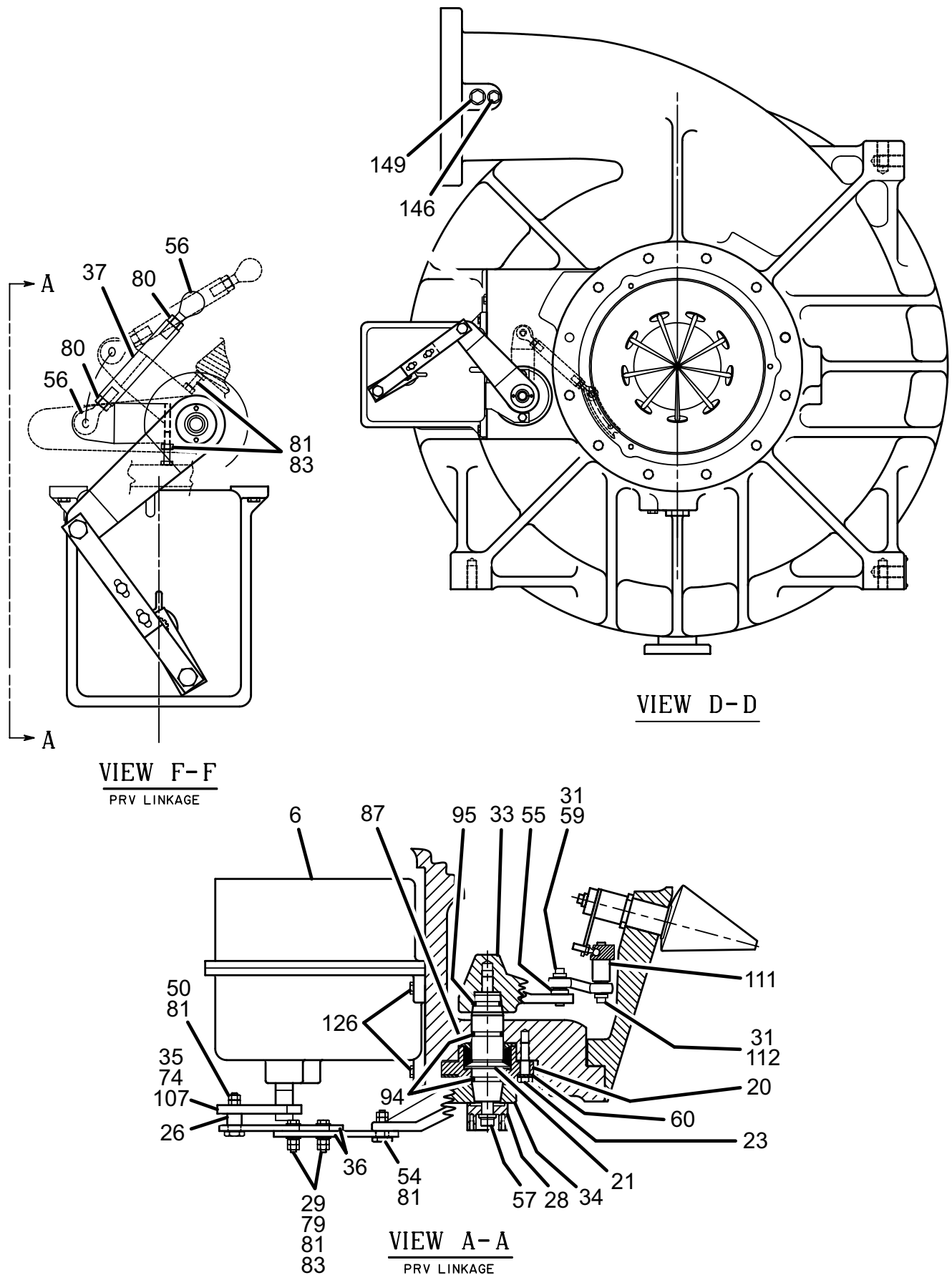


FIGURE 18 - YD COMPRESSOR COMPONENTS (J1/J2)

LD12074

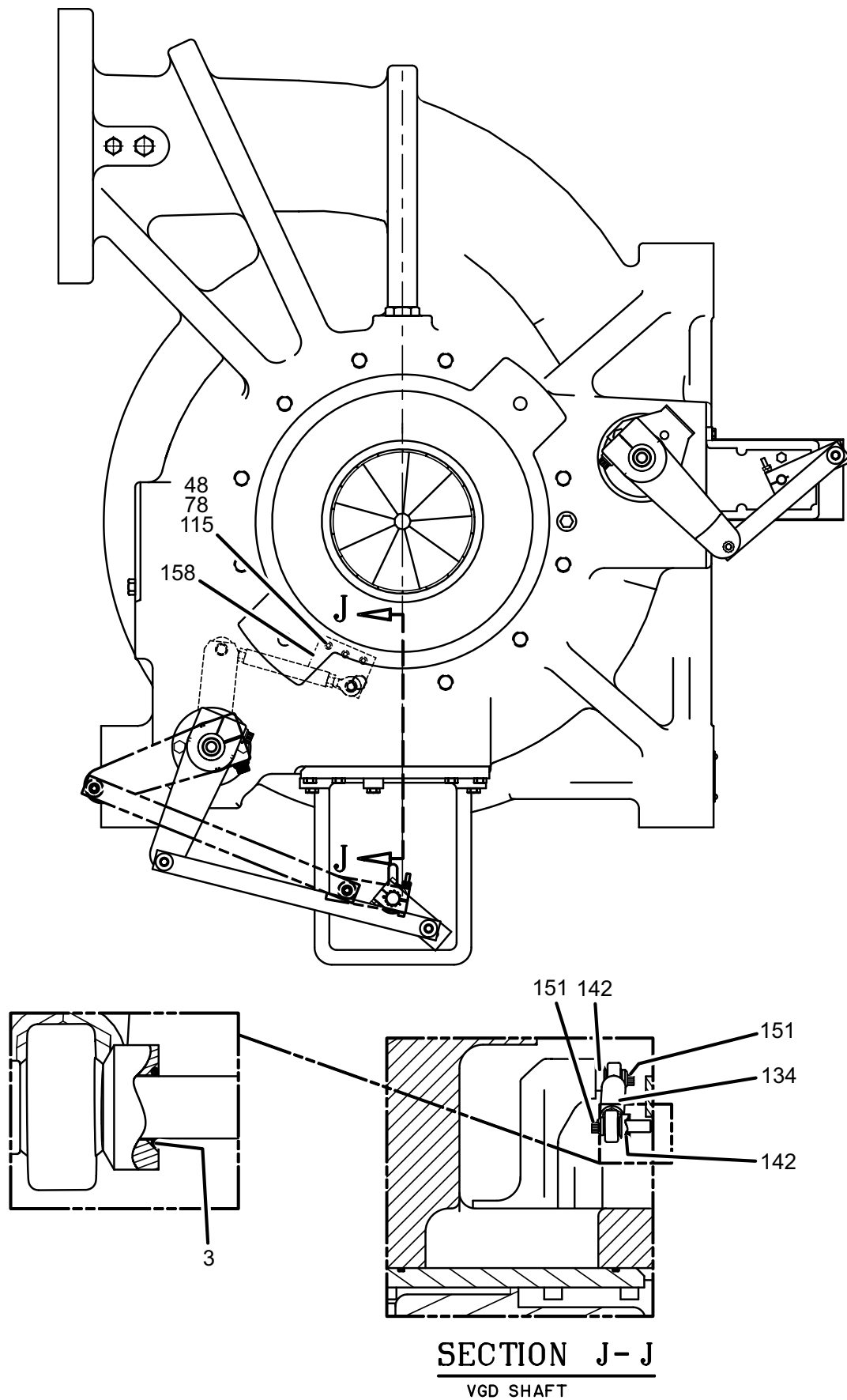


FIGURE 19 - YD COMPRESSOR COMPONENTS (J1/J2)

LD10710

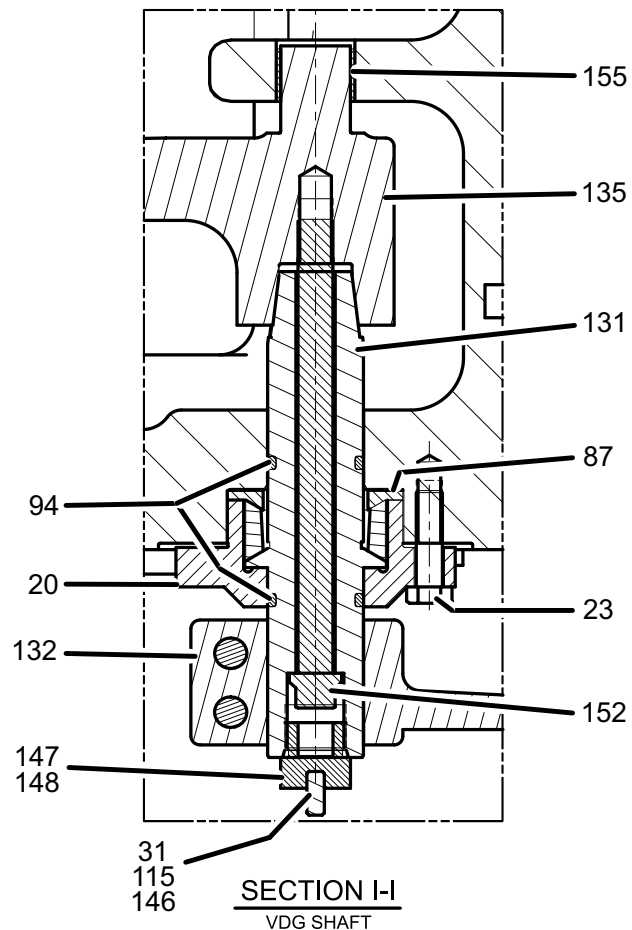
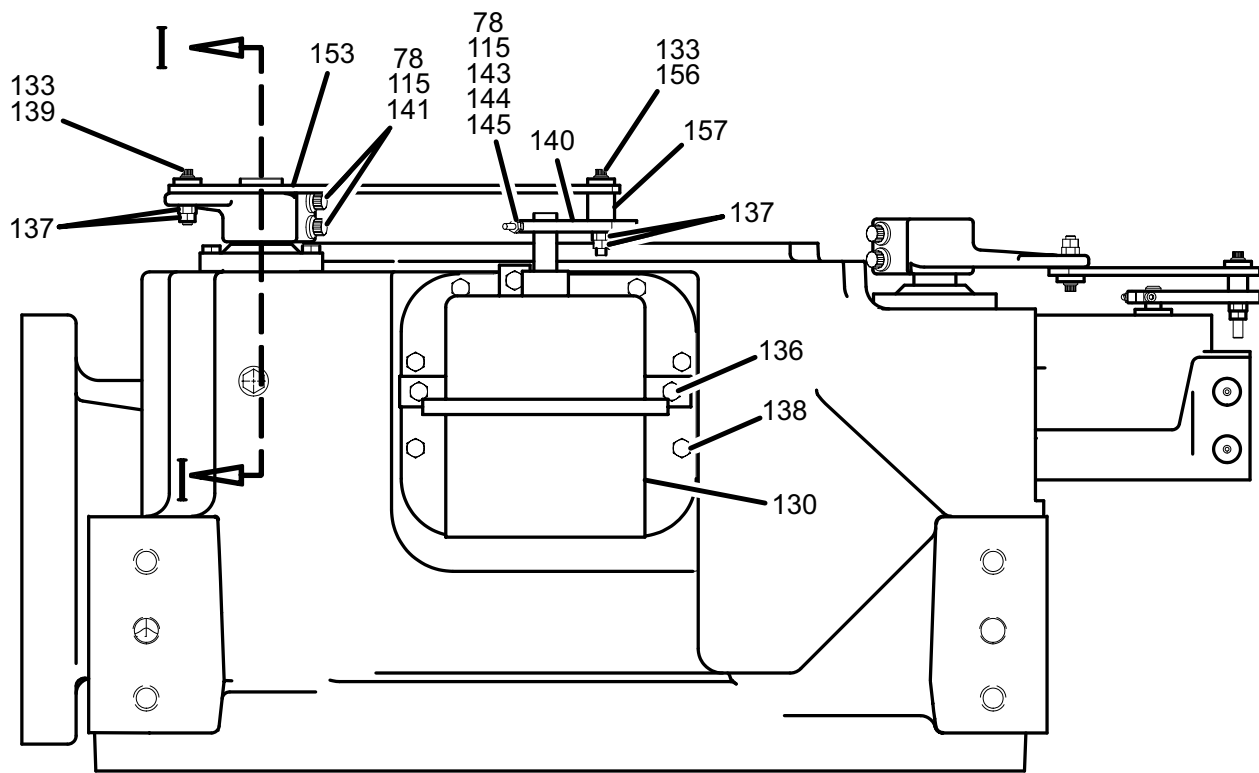


FIGURE 20 - YD COMPRESSOR COMPONENTS (J1/J2)

LD12074

PRE-ROTATION DEVICE

TABLE 11 - PRE-ROTATION DEVICE (J1/J2)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	Complete PRV Device (J1)	364 51450 001	-	-
-	Complete PRV Device (J2)	364 51450 002	-	-
1	Arm, Vane PRV	064 47952 000	9	21
2	Housing, PRV (J1)	064 50678 000	1	21
	Housing, PRV (J2)	064 50679 000	1	21
4	Nut, Self Lock 1/4 - 28unf	021 12943 000	9	21
5	Ring, Vane Driving	064 50370 000	1	21
6	Screw, Cap 12 Pt Hd 3/8	021 17245 000	9	21
7	Spacer, Arm PRV	064 49712 000	9	21
8	Stud, Ball 1/4 -28 Unf	029 15924 000	9	21
9	Vane, Pre-Rotation	064 51413 000	9	21
10	Washer, Plain Lt 17/64 Id 1/2	021 11973 000	18	21
11	Washer, Spl 25/64 Id	064 09289 000	9	21

NOTE: Items with an * are NOT represented.

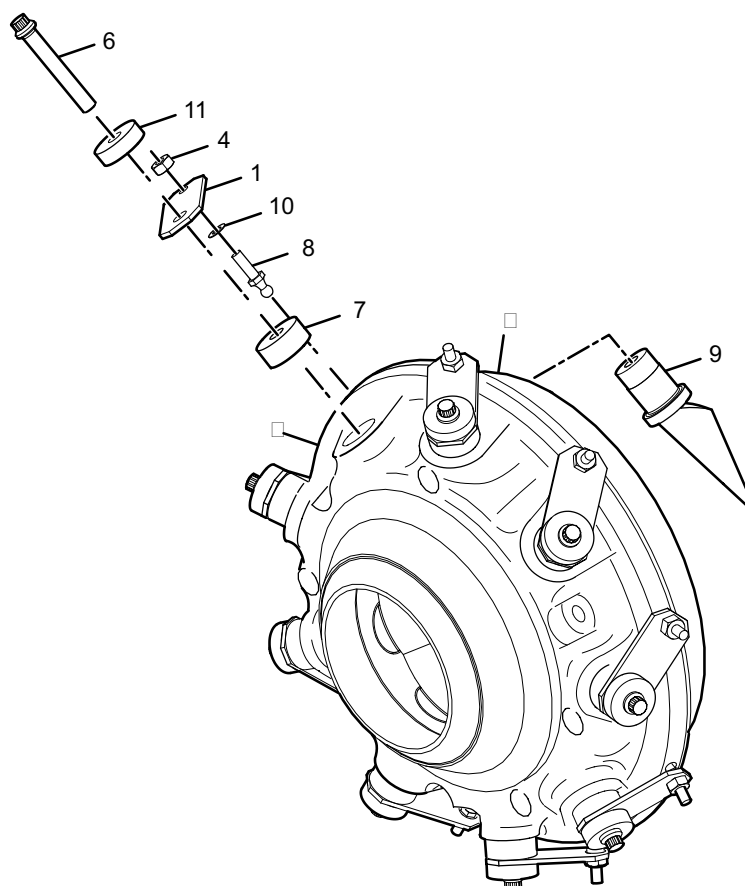


FIGURE 21 - PRE-ROTATIONAL DEVICE (J1/J2)

LD08907

VARIABLE GEOMETRY DIFFUSER

TABLE 12 - VARIABLE GEOMETRY DIFFUSER (J1/J2)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	VGD Assembly with Nozzle Baseplate (J1)	464 51430 000	-	-
-	VGD Assembly with Nozzle Baseplate (J2)	464 52822 000	-	-
1	Ring, Diffuser	064 51429 000	1	22
2	Screw, Cap Hex Soc Hd 5/16	021 31527 000	6	22
3	Pin, Drive	064 50767 000	3	22
4	Bearing, Mcgill Cf-3/4-B	029 24103 000	3	22
5	Nut, Hex 3/8 - 24 Unf-2b	021 00474 000	6	22
6	Spacer, VGD	064 50758 000	3	22
7	Bearing, Mcgill Cyr 1 3/8	029 24104 000	3	22
8	Screw, Cap Hex Soc Hd 3/8	021 01508 000	3	22
9	Washer, Plain .384 Id X 5/8 Od	021 31155 000	3	22
10	Support, Axial Bearing	064 50469 000	3	22
11	Bearing, Mcgill Cfe-3/4-B	029 24102 000	3	22
12	Screw, Cap Hex Soc Hd	021 19223 000	6	22
13	Screw, Cap Hex Soc Hd 5/16	021 31326 000	1	22
14	Washer, Plain Hardened 3/8 Id	021 31323 000	2	22
15	Washer, Conical Disk	021 31324 000	12	22
16	Bushing, Garlock 16du8	029 24555 000	6	22
17	Screw, Cap Hex Soc Hd 1/4	021 02578 000	1	22
18	Screw, Set Hex Socket 1/4	021 31328 000	1	22
19	Pin, Tensioner VGD Drive Ring	064 50830 000	1	22
20	Block, Tensioner VGD Drive Ring	064 50824 000	1	22
21	Screw, Shoulder Soc Hd 5/16	021 31322 000	1	22
23	Primer, Locquic Grade N	013 01753 000	-	*
24	Sealer, Removable Thread	013 01678 000	-	*
25	Shim, Bracket VGD Support Block	064 51137 000	6	22
26	Washer, Plain 13/32 Id X 13/16	021 01274 000	3	22
27	Ring, Drive VGD	064 51430 000	1	22
28	Plate, Nozzle Base (J1)	064 50792 000	1	22
	Plate, Nozzle Base (J2)	064 50793 000	1	22

NOTE: Items with an * are NOT represented.

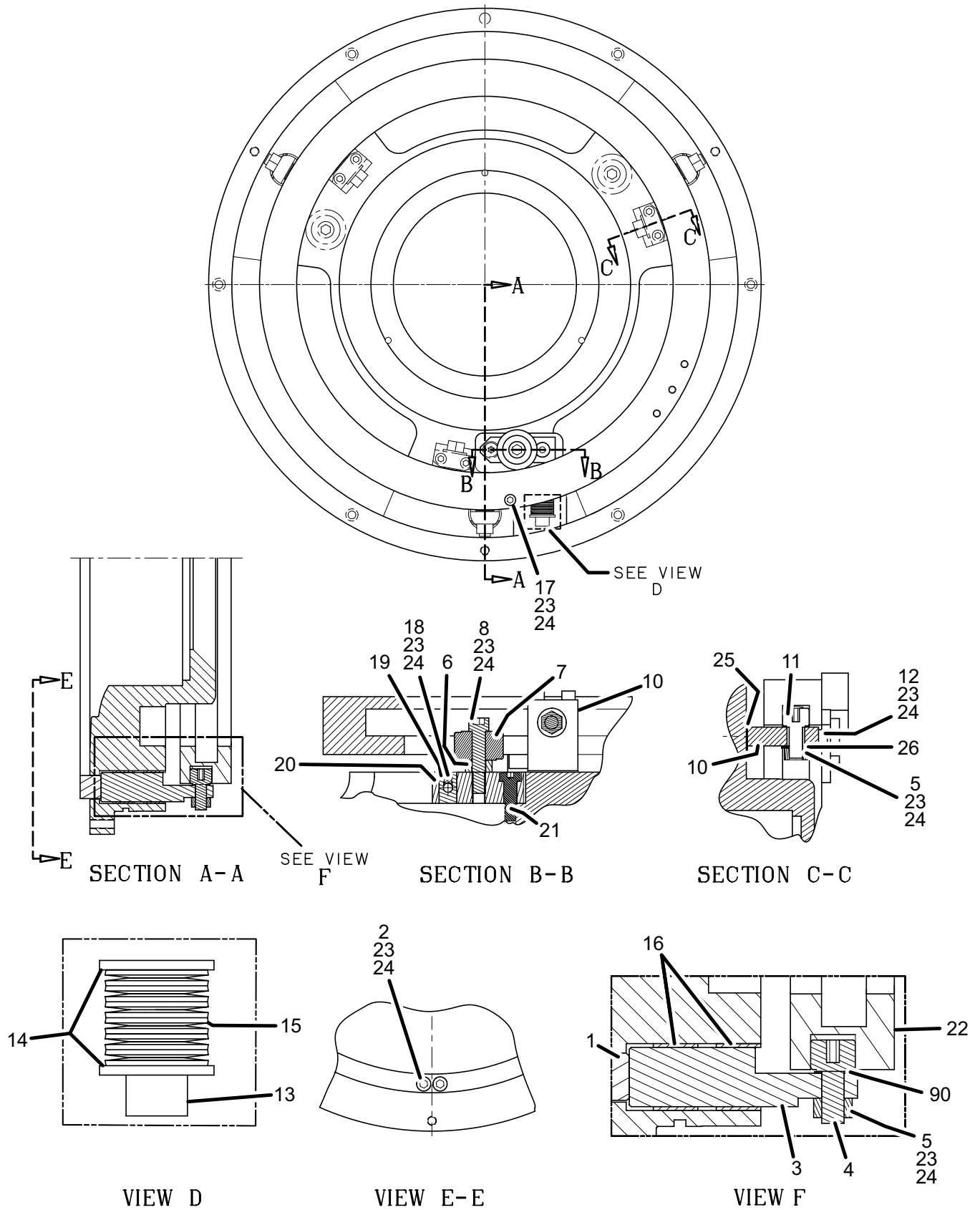


FIGURE 22 - VARIABLE GEOMETRY DIFFUSER (J1/J2)

LD10712

COMPRESSOR COMPONENTS

TABLE 13 - YD COMPRESSOR COMPONENTS (J3/J4/J5)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Screw, Set Hex Soc Cup Pt	021 00774 000	1	23
*2	Bearing, Hs Front Ha 81/90/104	064 48223 000	1	23
3	Screw, Cap Hex 3/8 -16unc	021 01483 000	3	25, 27
†4	Seal, O-Ring .301 Id X .064	028 12209 000	1	26
5	Support, Rotor W/Hsg Brg	364 50429 000	1	23
5A	Rotor, Scroll	064 50428 000	1	23
5B	Housing, Bearing	064 48225 000	1	23
6	PRV, Motor Actuator with Harness	375 49340 103	1	25
6A	Motor, Actuator	025 29657 001	1	25
6B	Harness, System Wiring	575 49340 201	1	25
†7	Seal, O-Ring 5/16 Id X	028 12513 000	2	23
*8	Bearing, High Speed Rear	064 48207 000	1	23
*9	Bearing, Low Speed Rear	064 47858 000	1	23
*10	Bearing, Low Speed Front	064 47857 000	1	23
*11	Bearing, Thrust High speed	029 20896 002	1	23
*13	Collar, Thrust High speed	064 47855 000	1	23
*14	Collar, Thrust Low speed	064 47856 000	1	23
15	Collar, Impeller Clamping	064 47853 000	1	23
17	Bearing, High Speed Revs Thrust	029 20895 002	1	23
†18	Seal, O-Ring 10-1/2 Id X 1/8	028 12226 000	1	23
20	Cover, PRV Shaft Control	064 48861 000	1	23, 28
21	Shaft, Contl Prerot Device	364 50631 000	1	23
23	Screw, Cap Hex 3/8 -16unc	021 18901 000	2	23, 28
25	Screw, Cap Flat Soc Hd 3/8	021 13856 000	2	23
26	Spacer	064 50611 000	1	25
27	Orifice, High Speed Oil Feed	064 49203 000	1	23
28	Dowel, Pin Str	064 24130 000	1	23
29	Washer, Plain 9/32 Id X 5/8 Od	021 05165 000	4	25
30	Valve, Stop Ang Vertical	022 10054 000	1	*
31	Connr, Flare Hydraulic 3/8 Od	023 09671 000	3	23, 26, 28
33	Lever, Internal	064 50498 000	1	23
34	Lever, Pre-Rot Vane External	064 50613 000	1	23
35	Lever, Prv Motor	064 50614 000	1	25
36	Link, Ext Prv & Mot Tk131	064 46880 000	2	25
37	Rod, Adj For PRV Device	064 09080 000	1	25
38	Valve, Stop Ang Vertical	022 09577 000	1	26
39	Transducer, Pressure	025 28678 006	1	26
40	Retainer, Brg S Stage Turbo	064 46886 000	3	23
41	Screw, Cap Hex 3/8 -16unc	021 01477 000	2	23
43	Connr, Flare Hydraulic 1/4 Od	023 09668 000	1	23
45	Washer, Plain 13/32 Id X 13/16	021 01274 000	2	23
50	Screw, Cap 12pt hd 5/16	021 12197 000	1	25

* Included in Bearing Kit † Included in O-Ring Kit

TABLE 13 - YD COMPRESSOR COMPONENTS (J3/J4/J5) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
51	Plug, Pipe 1/4 Hex Socket	023 01973 000	2	23
53	Sensor, Temperature 50,000 Ohms	025 33288 000	1	25
54	Screw, cap 12pt hd 5/161	021 11142 000	1	25
55	Fillpiece, Prerot Device	064 09070 000	1	23
56	Brg, Rod End W/Sst lsrt Chrome	029 07015 000	2	25, 27
57	Screw, Cap 12 Pt Hd 1/2	021 31125 000	1	23
59	Screw, Cap 12 Pt Hd 1/2	021 11984 000	1	23
60	Elbow, Flare Hydraulic 3/8 Od	023 11343 000	2	23, 26
61	Screw, Cap 12 Pt Hd 1/4	021 11505 000	3	23
62	Tube, Tee-Drain	064 48219 000	1	26
63	Screw, Cap Hex Soc Hd 1/4	021 02578 000	4	23
65	Washer, Plain Clipped Hardened	021 17593 000	40	23
66	Screw, Cap 12pt Hd 5/8	021 11629 000	38	23
67	Screw, Set Hex Soc Cup Pt	021 17615 000	2	23
68	Nut, Hex 5/8 -11 Unc-2b	021 17659 000	2	23
70	Tube, 9 Lg 37 Deg Sae Fl 1 End	064 47557 000	1	23
71	Screw, Cap Hex 3/8 -16unc	021 01497 000	6	23
73	Plate, Mounting	064 47998 000	1	23
74	Screw, Set Hex Soc Cup Pt	021 31182 000	1	25
75	Header, Spray	064 47999 000	1	23
78	Tube, Steel 3/8 Od X .049 X	003 00240 000	-	23, 26-28
79	Lockwasher, Hel Spg 1/4 Reg	021 05267 000	2	25
80	Nut, Hex 1/2 - 20unf-2b	021 10171 000	2	25, 27
81	Nut, Hex 1/4 - 20 Unc-2b	021 00450 000	6	25
82	Pin, Dowel Tapped 3/8 Dia	029 18459 000	2	23
83	Screw, Cap Hex 1/4 -20unc	021 01392 000	4	25
84	Screw, Shoulder Soc Hd	021 17557 000	6	23
87	Gasket, 2-1/2 Od X 2 Id X 1/32	064 47751 000	1	23, 28
88	Conn, Oil Drain	364 48291 000	1	*
89	Valve, Check Oil 1/8 Npte	022 04444 000	1	23
†92	Seal, O-Ring 6-1/2 Id X 1/8	028 12224 000	1	23
93	Screw, Cap Hex 3/8 -16unc	021 01485 000	3	23
†94	Seal, O-Ring 1-1/8 Id X 1/8	028 12200 000	2	23, 28
95	Nut, hex 5/16 - 18unc 2b	028 05628 000	4	25
96	Plug, Pipe, Flush Type Hex	023 05366 000	2	23
98	Screw, Cap Hex 3/8 -16unc	021 01510 000	16	23
100	Plug Pipe, Flush Type Hex	023 21738 000	3	*
*103	Bearing, Thrust	029 20839 001	1	23
105	Screw, Cap 12 Pt Hd 1/4	021 14108 000	6	23
109	Screw, Cap Hex Hd 3/8 -16unc-2a	021 17556 000	4	23
†110	Seal, O-Ring Spliced 37.050 Id	028 15083 000	1	23
111	Fillpiece, PRV Linkage	064 47727 000	1	23

* Included in Bearing Kit † Included in O-Ring Kit

TABLE 13 - YD COMPRESSOR COMPONENTS (J3/J4/J5) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
112	Screw, Cap 12 Pt Hd 1/2	021 11525 000	1	23
116	Elbow, Flare Hydraulic 1/4 Od	023 09677 000	1	23
†121	Seal, O-Ring Spliced 32.456 Id	028 12569 000	1	23
†122	Seal, O-Ring 4-7/8 Id X 1/8	028 12225 000	1	23
†124	Seal, O-Ring Spliced 34.067 Id	028 12248 000	1	23
125	Screw, Cap Hex Soc Hd 1/4	021 17765 000	6	23
130	Screw, Cap Hex Soc Hd 1/4	021 01377 000	1	23, 28
131	Screw, Cap Hex 3/8 -16unc	021 14374 000	14	23, 28
139	Tee, Instm Union 3/8 Tube	023 10595 000	1	26, 28
140	Tube, High Speed-Tee	064 48218 000	1	26, 28
141	Probe, Proximity 2 Piece Kit	364 51806 000	1	26, 28
153	Bracket, Support Lower PRV	064 48851 000	1	23, 28
155	Connr, Fla M X M 3/8 Od Fla	023 20853 000	1	26, 28
158	Seal, Double Shaft	029 22429 000	1	23, 27
158A	C-ring, Replacement Shaft Seal	028 14493 000	1	23, 27
159	Elbow, Flare Hydraulic 3/8 Od	023 18969 000	1	26
160	Tube, Shaft Seal Oil Supply	064 49028 000	1	26
162	Fitting, Liquid Tight 1/2 Npt	025 28720 000	1	26
163	Bush Pipe 3/4 - 14 Npte X	023 04010 000	1	26
164	Tube, High speed Sol H 65-90	064 49047 000	1	26
165	Tube, .50 Lg +/- .03 X 1/4 Od X	064 49229 000	1	26
168	Nut, Flare Hydraulic 3/8 Od	023 09673 000	3	26
169	Sleeve, Flare Hydraulic 3/8 Od	023 10001 000	3	26
†170	Seal, O-Ring Neoprene	028 12961 004	1	25
171	Elbow, Flare Hydraulic 3/8 Od	023 18920 000	2	26
172	Valve, Stop Ang Vertical	022 09578 000	1	*
173	Spacer	064 50612 000	2	25
174	Screw, Cap 122 pt hd 1/2	021 11926 000	2	25
175	Plug, PRV assembly	064 50632 000	1	23
176	Seal, O-ring neoprene	028 12961 005	1	23
177	Nut, Hex mach scr #10 - 32	021 08670 000	1	25
178	Lockwasher, hel spg #10 reg	021 05265 000	1	25
201	Impeller, 8.1 Eye Hard Coat (J3)	064 48155 001	1	23
	Impeller, 9.0 Eye Hard Coat (J4)	064 48156 001	1	23
	Impeller, 10.4 Eye Hard Coat (J5)	064 50394 001	1	23
202	Plate, Nozzle Base (J3)	064 50615 000	1	23
	Plate, Nozzle Base (J4)	064 50616 000	1	23
	Plate, Nozzle Base (J5)	064 50693 000	1	23
203	Plate, Diffuser (J3)	064 50315 000	1	23
	Plate, Diffuser (J4)	064 50318 000	1	23
	Plate, Diffuser (J5)	064 50414 000	1	23

* Included in Bearing Kit † Included in O-Ring Kit

TABLE 13 - YD COMPRESSOR COMPONENTS (J3/J4/J5) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
204	Device, PRV (J3)	364 50208 002	1	23
	Device, PRV (J4)	364 50208 003	1	23
	Device, PRV (J5)	364 50208 004	1	23
205	Screw, Cap Hex Soc Hd 3/8 (J3/J4)	021 17766 000	6	23
	Screw, Cap Hex Soc Hd 3/8 (J5)	021 17298 000	6	23
206	Ring, Eye Seal (J3)	064 50247 000	1	23
	Ring, Eye Seal (J4)	064 50250 000	1	23
	Ring, Eye Seal (J5)	064 50244 000	1	23
210	Plug, Hex Hd 1-5/16	023 18282 000	2	25
211	Screw, Cap 12 Pt Hd 1/2 (J3/J4)	021 17571 000	6	23
	Screw, Cap 12 Pt Hd 1/2 (J5)	021 12165 000	6	23
212	Plug, Hex Hd 9/16	023 18962 000	4	23, 25
221	Ring, Balance Piston Seal (J3/J4)	064 50241 000	1	23
	Ring, Balance Piston Seal (J5)	064 50238 000	1	23
222	Retainer, B.P. Seal Washer (J3/J4)	064 50242 000	1	23
	Retainer, B.P. Seal Washer (J5)	064 50239 000	1	23
223	Washer, Spring Balance Piston (J3/J4)	064 50243 000	1	23
	Washer, Spring Balance Piston (J5)	064 50240 000	1	23
224	Washer, Spring Eye (J3)	064 50248 000	1	23
	Washer, Spring Eye (J4)	064 50251 000	1	23
	Washer, Spring Eye (J5)	064 50245 000	1	23
225	Retainer, Eye Seal Washer (J3)	064 50311 000	1	23
	Retainer, Eye Seal Washer (J4)	064 50314 000	1	23
	Retainer, Eye Seal Washer (J5)	064 50246 000	1	23
†226	Seal, O-Ring Neoprene	028 12961 008	2	25
†227	Seal, O-Ring Neoprene	028 12961 003	9	23, 25, 26
-	Bearing Kit, Compressor (J3/J4/J5)	464 49802 000	-	*
-	O-Ring Kit, Compressor (J3/J4/J5)	464 51841 000	-	*
-	Tool Kit, Compressor (J3/J4/J5)	364K48026 000	-	*

* Included in Bearing Kit † Included in O-Ring Kit

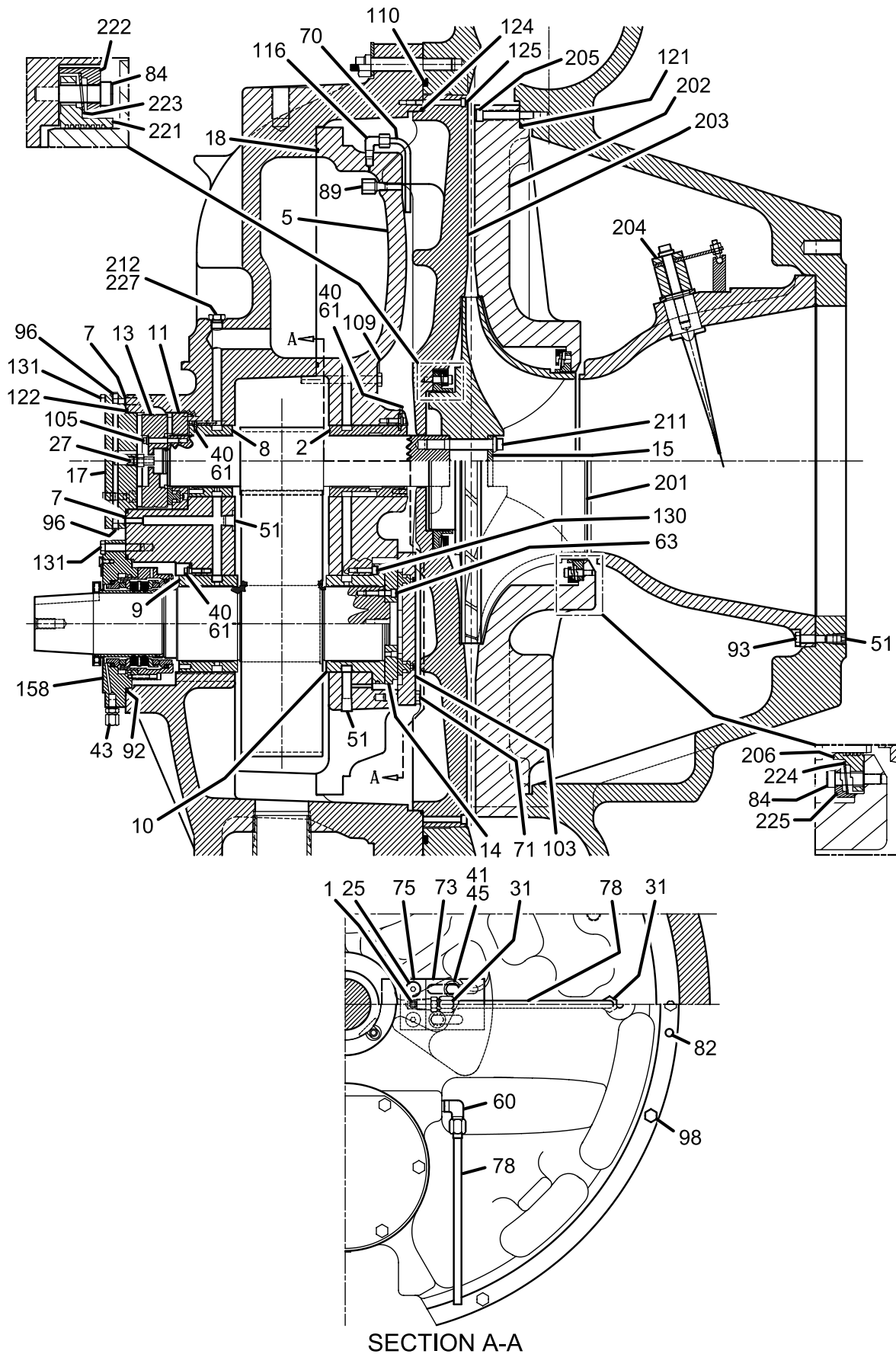
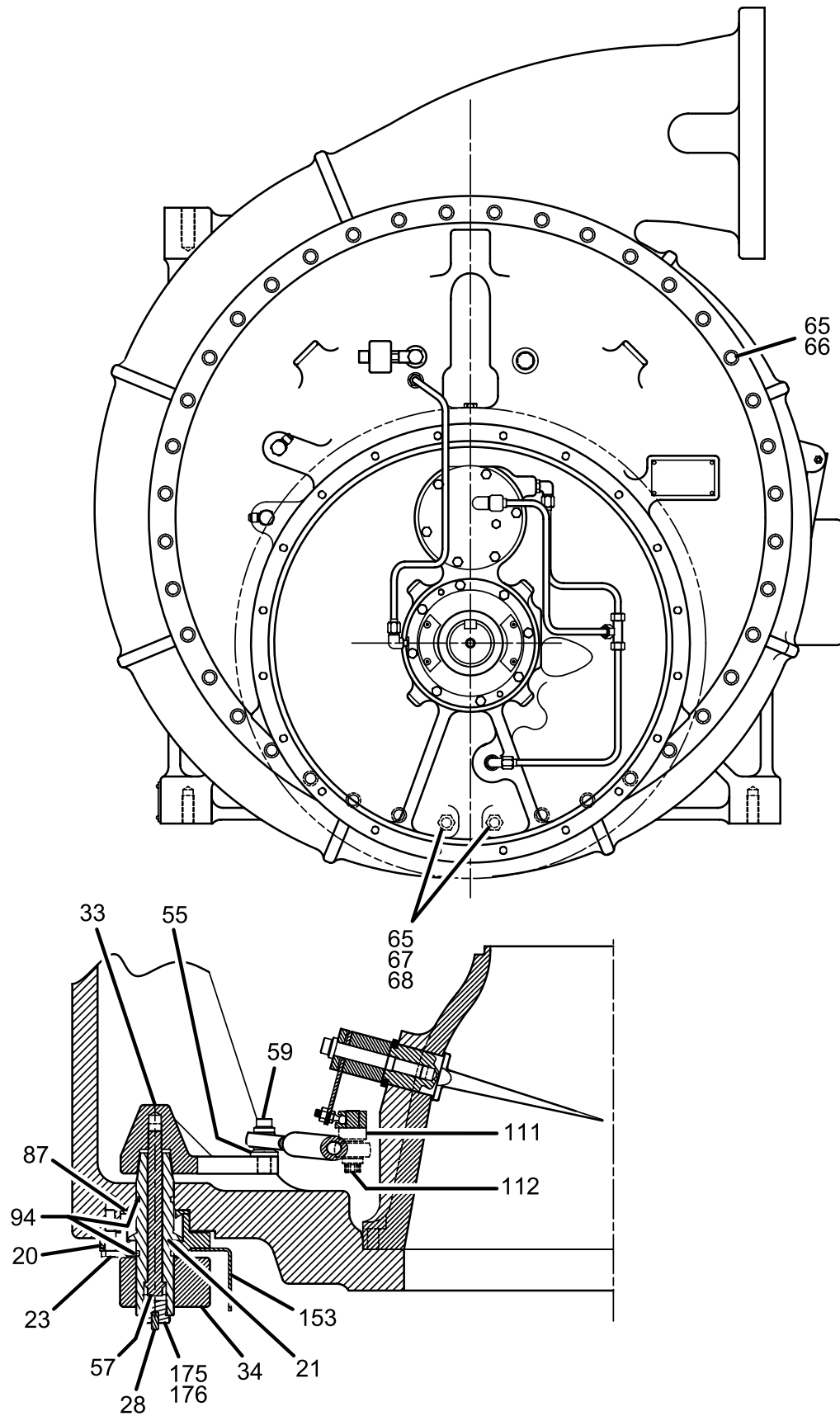


FIGURE 23 - YD COMPRESSOR COMPONENTS (J3/J4/J5)

LD15177



SECTION B-B

FIGURE 24 - YD COMPRESSOR COMPONENTS (J3/J4/J5)

LD15178

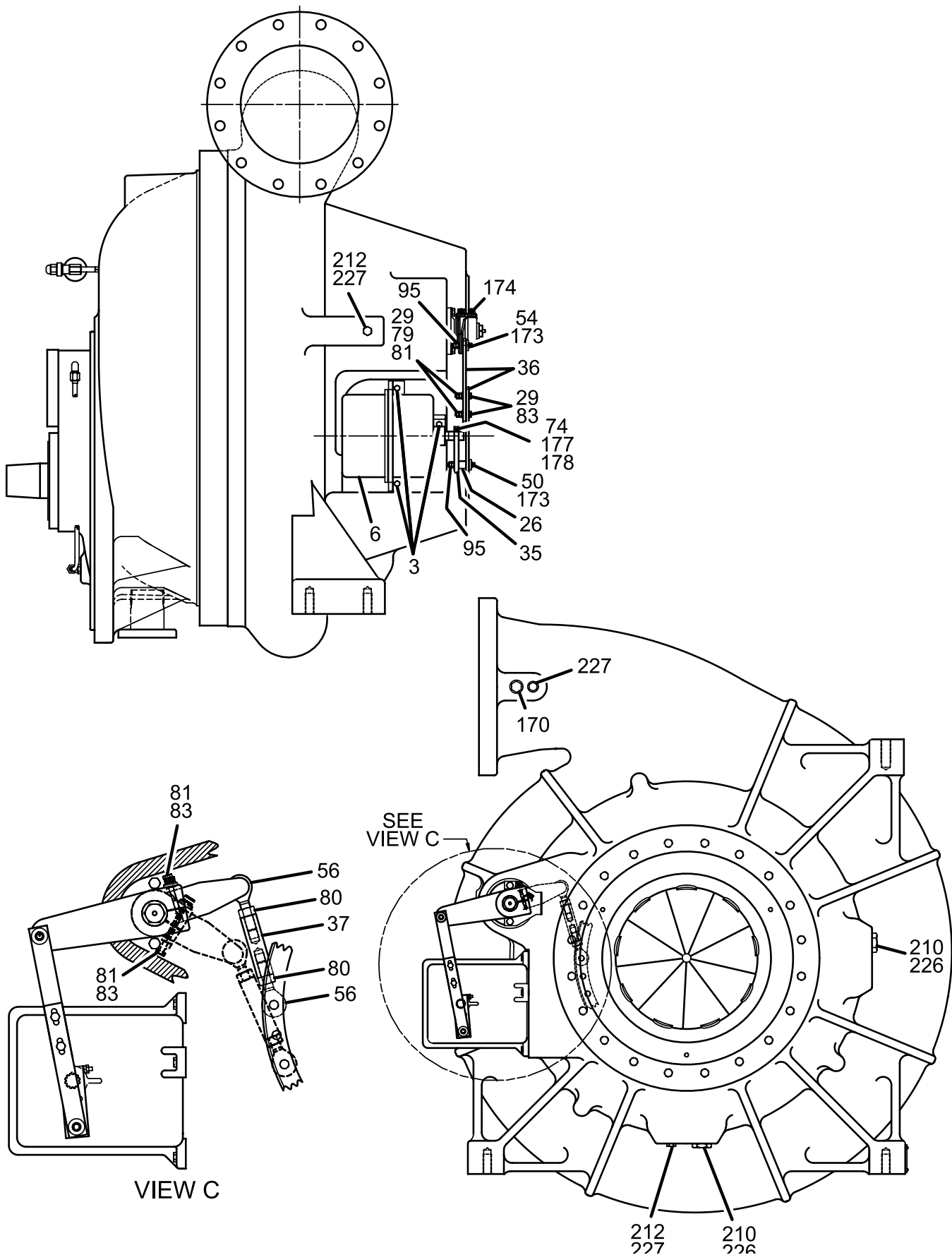
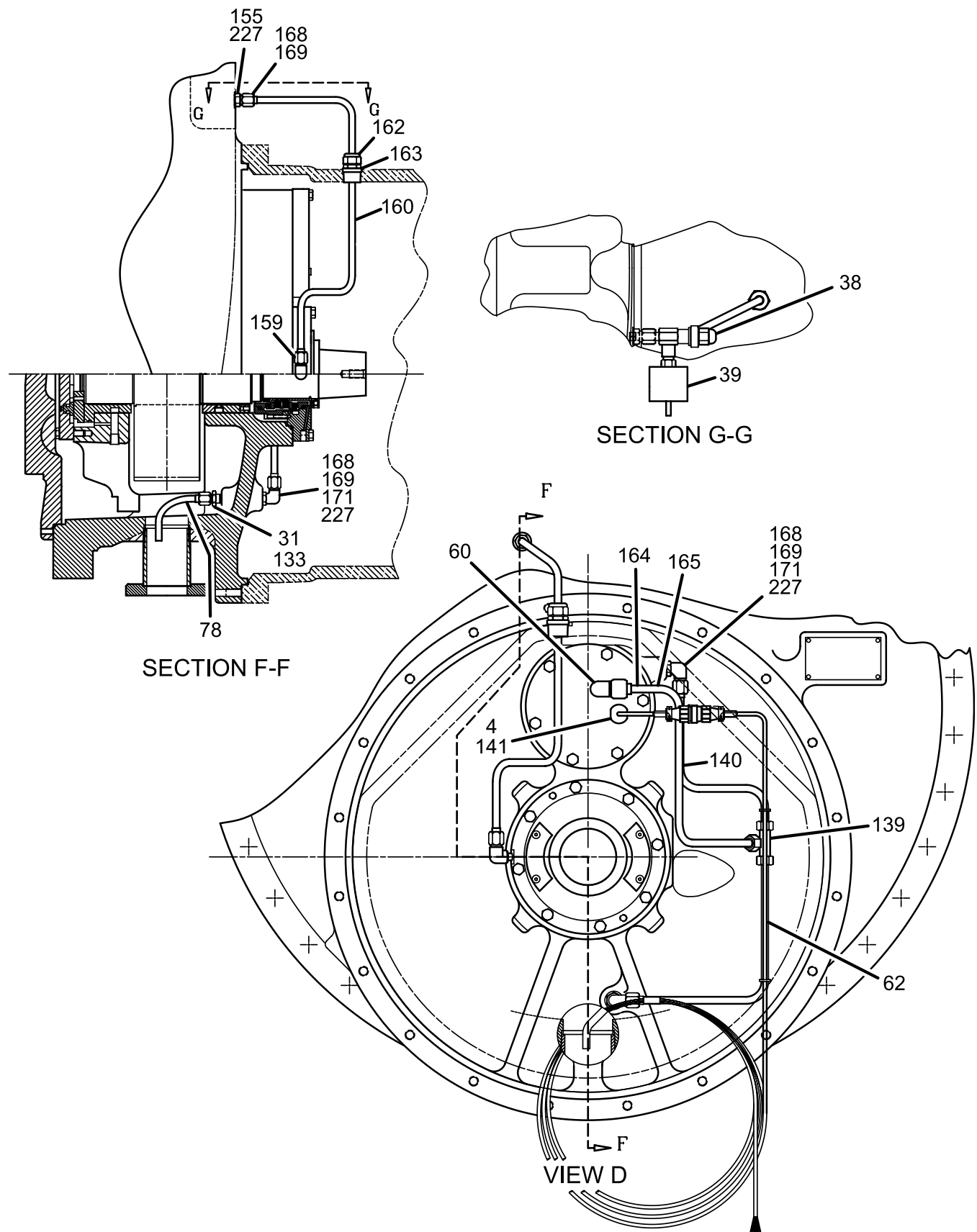


FIGURE 25 - YD COMPRESSOR COMPONENTS (J3/J4/J5)

LD15179



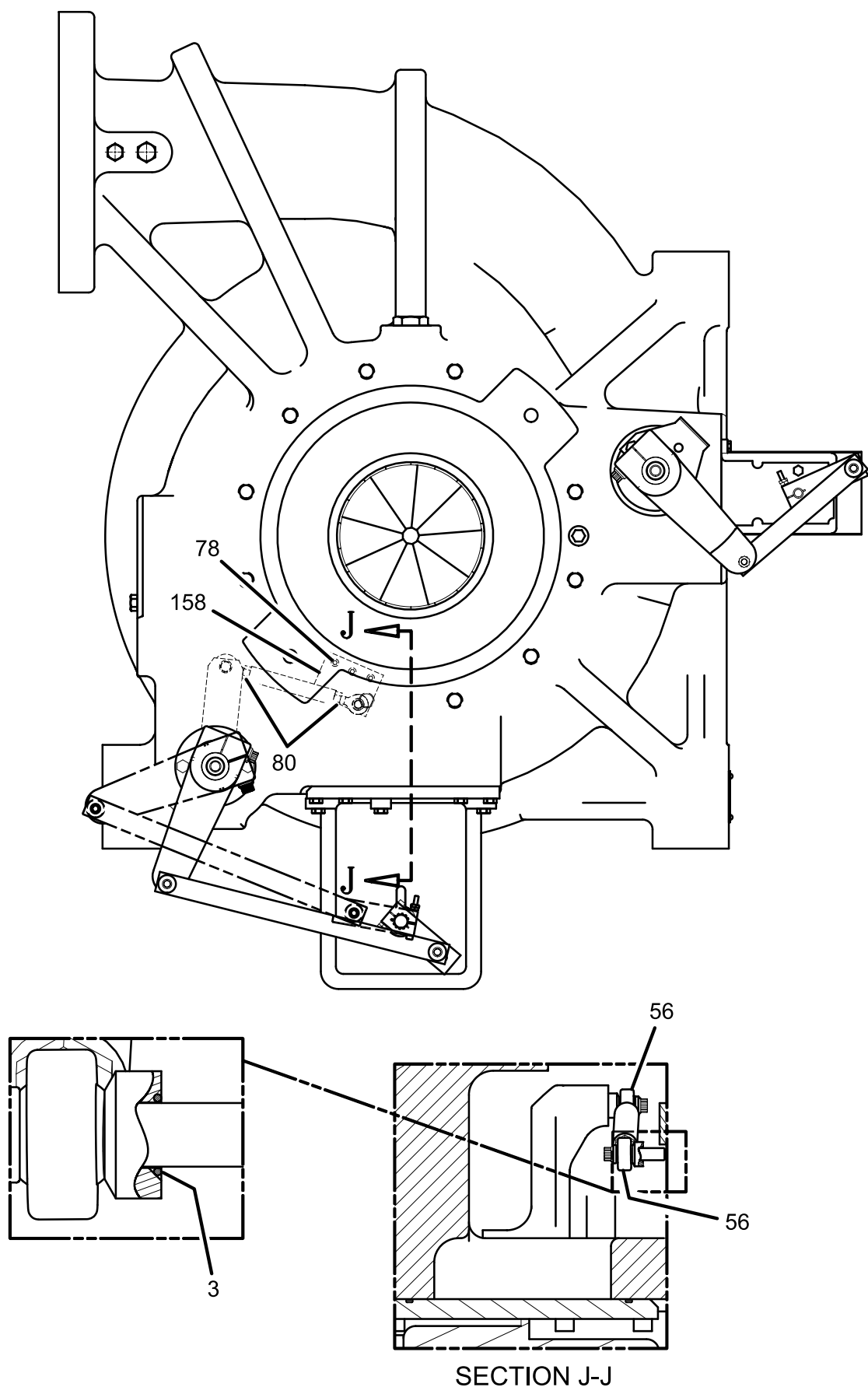
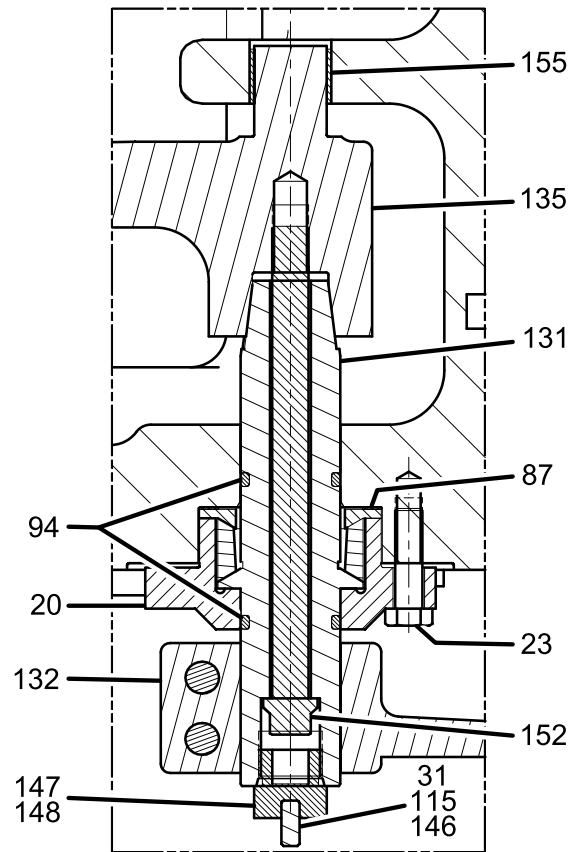
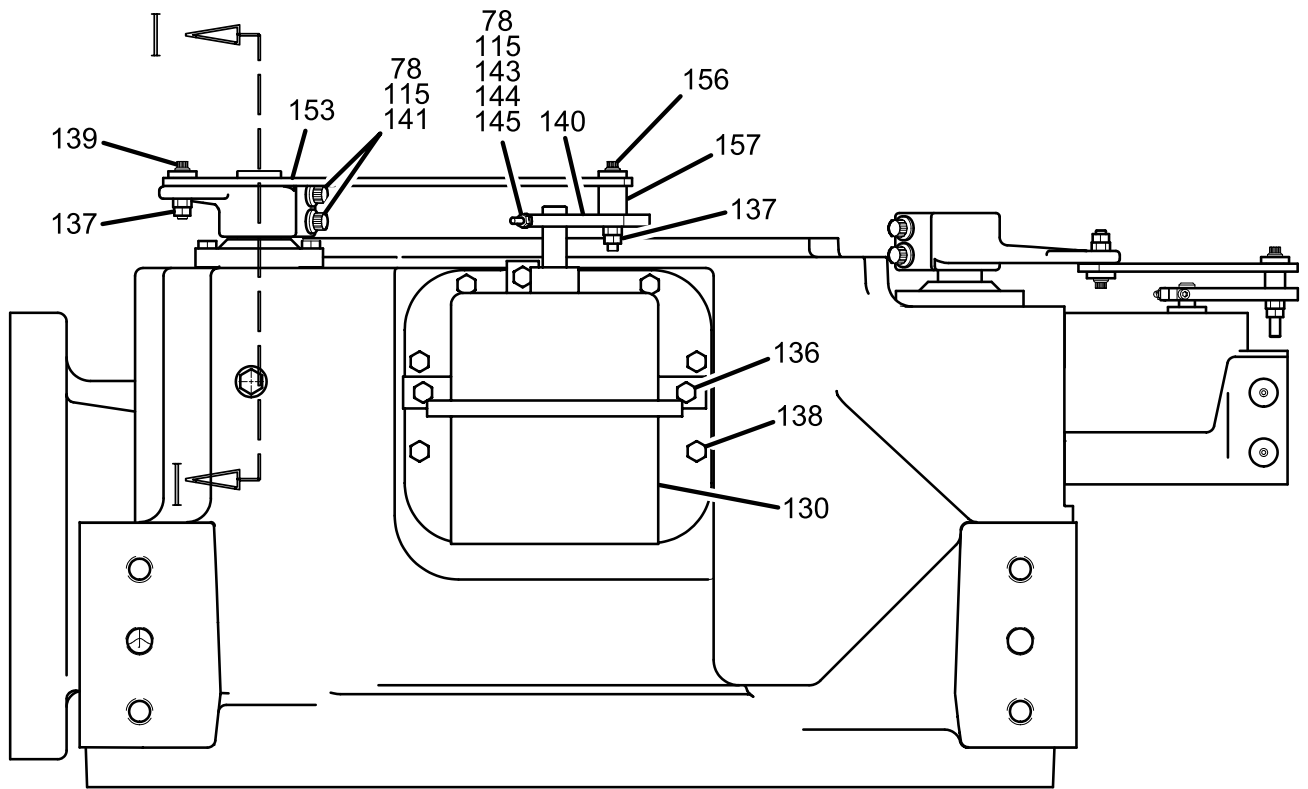


FIGURE 27 - YD COMPRESSOR COMPONENTS (J3/J4/J5)

LD15180



SECTION I-I

FIGURE 28 - YD COMPRESSOR COMPONENTS (J3/J4/J5)

LD15182

PRE-ROTATION DEVICE

TABLE 14 - PRE-ROTATION DEVICE (J3/J4/J5)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	Complete PRV Device (J3)	364 50208 002	-	-
-	Complete PRV Device (J4)	364 50208 003	-	-
-	Complete PRV Device (J5)	364 50208 004	-	-
1	Arm, Vane PRV	064 47508 000	9	29
2	Housing, PRV (J3)	064 50206 000	1	29
	Housing, PRV (J4)	064 50207 000	1	29
	Housing, PRV (J5)	064 50413 000	1	29
4	Nut, Self Lock 1/4 - 28unf	021 12943 000	9	29
5	Ring, Vane Driving	064 50205 000	1	29
6	Screw, Cap 12 Pt Hd 3/8	021 17571 000	9	29
7	Spacer, Arm PRV	064 48199 000	9	29
8	Stud, Ball 1/4 -28 Unf	029 15924 000	9	29
9	Vane, Pre-Rotation	064 48206 000	9	29
10	Washer, Plain Lt 17/64 Id 1/2	021 11973 000	18	29
11	Washer, Spl 25/64 Id	064 47516 000	9	29
12	Retainer	064 47505 000	9	29
13	Screw, Cap Hex 1/4-20	021 01372 000	18	29

NOTE: Items with an * are NOT represented.

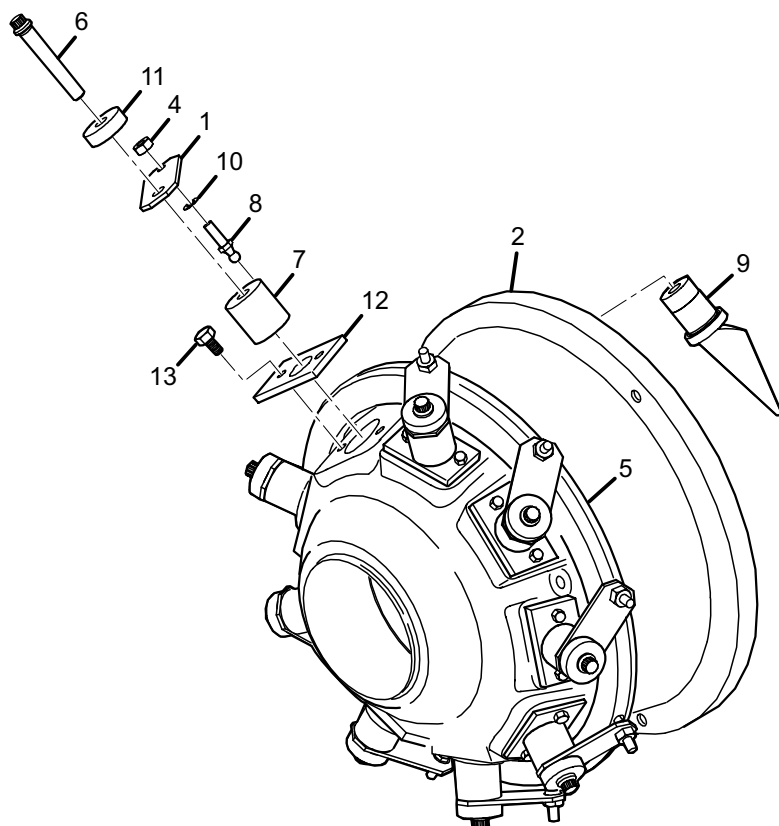


FIGURE 29 - PRE-ROTATIONAL DEVICE (J3J4/J5)

LD12085

VARIABLE GEOMETRY DIFFUSER

TABLE 15 - VARIABLE GEOMETRY DIFFUSER (J3/J4/J5)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	VGD Assembly with Nozzle Baseplate (J3)	464 52823 000	-	-
-	VGD Assembly with Nozzle Baseplate (J4)	464 52824 000	-	-
-	VGD Assembly with Nozzle Baseplate (J5)	464 52825 000	-	-
1	Ring, Diffuser VGD	064 51431 000	1	30
2	Screw, Cap Hex Soc Hd 5/16	021 31527 000	8	30
3	Pin, Drive	064 50470 000	4	30
4	Bearing, Mcgill Cf-3/4-B	029 24103 000	4	30
5	Nut, Hex 3/8 - 24 Unf-2b:	021 00474 000	8	30
6	Spacer, VGD	064 50758 000	4	30
7	Bearing, Mcgill Cyr 1 3/8	029 24104 000	4	30
8	Screw, Cap Hex Soc Hd 3/8	021 01508 000	4	30
9	Washer, Plain .384 Id X 5/8 Od	021 31155 000	4	30
10	Support, Axial Bearing	064 50469 000	4	30
11	Bearing, Mcgill Cfe-3/4-B	029 24102 000	4	30
12	Screw, Cap Hex Soc Hd	021 19223 000	8	30
13	Washer, Plain 13/32 Id X 13/16	021 01274 000	4	30
14	Bushing, Garlock 16du12	029 24100 000	8	30
15	Washer, Conical Disk	021 31324 000	24	30
16	Washer, Plain Hardened 3/8 Id	021 31323 000	4	30
17	Screw, Cap Hex Soc Hd 1/4	021 02578 000	1	30
18	Screw, Set Hex Socket 1/4	021 31328 000	2	30
19	Pin, Tensioner VGD Drive Ring	064 50830 000	2	30
22	Block, Tensioner VGD Drive Ring	064 50824 000	2	30
23	Screw, Shoulder Soc Hd 5/16	021 31322 000	2	30
24	Screw, Cap Hex Soc Hd 5/16	021 31327 000	2	30
25	Shim, Bracket VGD Support Block	064 51137 000	8	30
26	Ring, Drive VGD (J3)	064 51432 000	1	30
	Ring, Drive VGD (J4)	064 51433 000	1	30
	Ring, Drive VGD (J5)	064 51434 000	1	30
27	Plate, Nozzle Base (J3)	064 51238 000	1	30
	Plate, Nozzle Base (J4)	064 51239 000	1	30
	Plate, Nozzle Base (J5)	064 51240 000	1	30

NOTE: Items with an * are NOT represented.

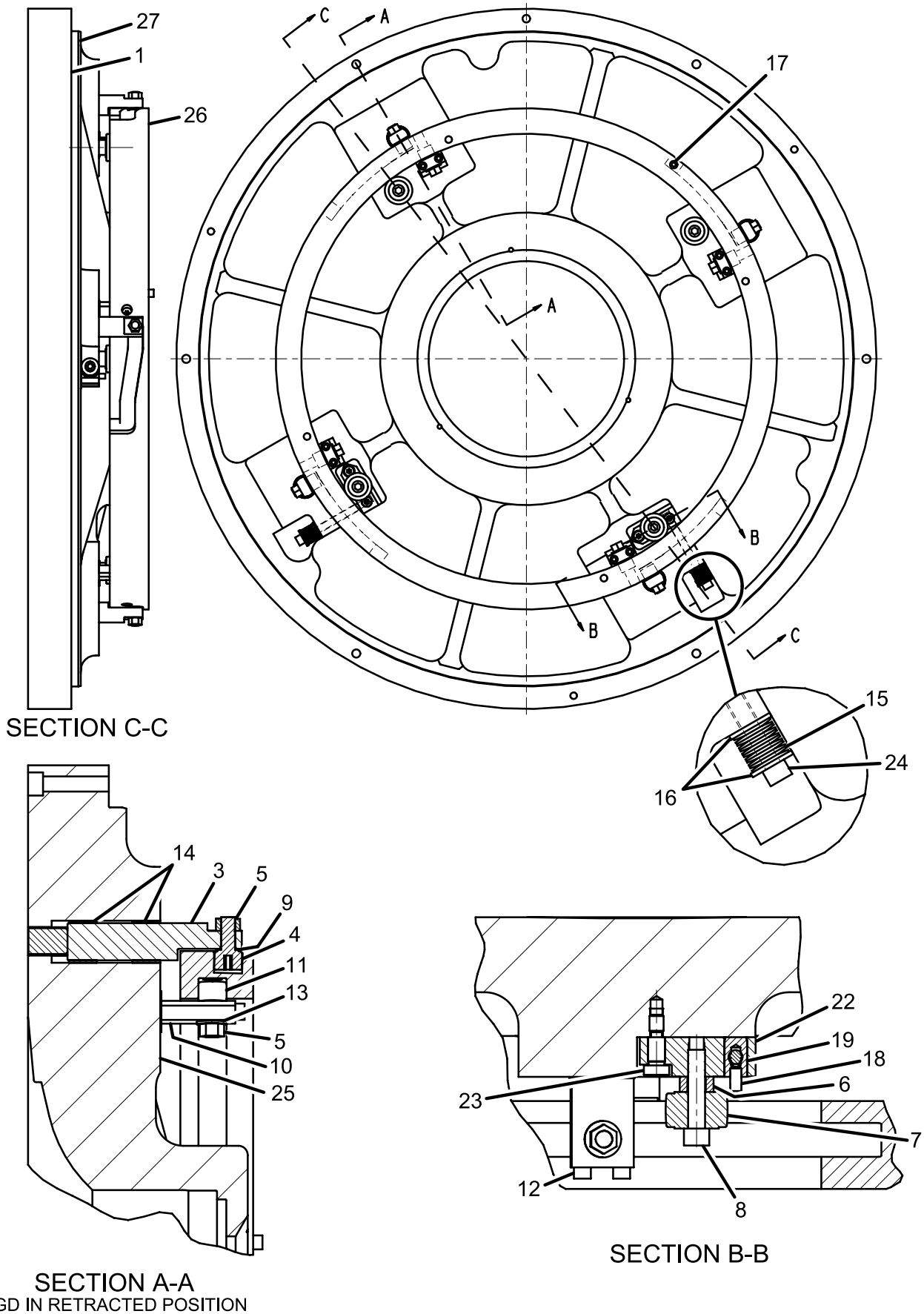


FIGURE 30 - VARIABLE GEOMETRY DIFFUSER (J3J4/J5)

LD15183

COMPRESSOR COMPONENTS

TABLE 16 - YD COMPRESSOR COMPONENTS (J7)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Screw, Set Hex Soc Cup Pt	021 00774 000	1	31
*2	Bearing, High Speed Front	064 51495 000	1	31
3	Hhcs, 0.375-16 X 0.875 Gr 5 BI	021 01470 000	6	34
4	Seal, O-Ring .301 Id X .064	028 12209 000	1	32
6	PRV Motor Actuator with Harness	375 49340 105	2	34
6A	Motor, Actuator	025 40490 001	2	34
6B	Harness, System Wiring	575 49340 201	2	34
7	Seal, O-Ring 5/16 Id X	028 12513 000	3	31
*8	Bearing, High Speed Rear	064 51494 000	1	31
*9	Bearing, Low Speed Rear	064 47858 000	1	31
*10	Bearing, Low Speed Front	064 47857 000	1	31
*11	Bearing, High Speed Thrust	029 24759 001	1	31
*13	Collar, High Speed Thrust	064 51493 000	1	31
*14	Collar, Low Speed Thrust	064 51492 000	1	31
15	Collar, Impeller Clamping	064 51501 000	1	31
16	Elbow, Cinch 3/8 Tube X	023 22141 000	2	31
17	Bearing, High Speed Rev Thrust	029 24758 002	1	31
†18	Seal, O-Ring 10-1/2 Id X 1/8	028 12226 000	1	31
20	Cover, PRV Shaft Control	064 48861 000	2	33, 34
21	Shaft, Control Prerot Device	364 51220 000	2	33
23	Hhcs, 0.375-16 X 1.500 Gr 5 Zn	021 18901 000	4	33, 34
25	Screw, Cap Flat Soc Hd 3/8	021 13856 000	2	31
26	Spacer, .50 Lg X .33 Id X .63od	064 50611 000	2	34
27	Orifice, High Speed Oil Feed	064 49203 000	1	31
28	Screw, Cap 12 Pt Hd 1/2	021 31600 000	2	33
29	Washer, Plain 11/32 Id X 11/16	021 05166 000	4	33, 34
30	Screw, Cap 12pt Hd 3/8	021 11141 000	18	31, 34
31	Connr, Cinch 3/8 Tube X	023 06801 000	3	31
32	Seal, Double Shaft	029 24762 000	1	31, 34
32A	C-ring, Replacement for Shaft Seal	028 14493 000	1	31, 34
33	Lever, Internal	064 51516 000	1	33
34	Lever, PRV External	064 51518 000	1	34
35	Arm, Motor	064 51522 000	1	34
36	Link, External PRV	064 51788 000	1	33
37	Rod, Adjustable PRV & VGD	364 51754 800	1	33
38	Plug, Hex Hd 1-1/16	023 18295 000	1	32
†39	Seal, O-Ring Neoprene	028 12961 006	1	32
40	Retainer, Bearing S Stage Turbo	064 46886 000	2	31
41	Screw, Cap Hex 3/8 -16unc	021 01477 000	2	31
42	Tube, Low Speed Oil Drain	064 51222 000	1	31
43	Connr, Cinch 1/4 Od Tube X	023 17641 000	1	31
44	Tube, Oil Drain Shaft Seal	064 51637 000	1	31

* Included in Bearing Kit (see APPENDIX A for additional details) † Included in O-Ring Kit

TABLE 16 - YD COMPRESSOR COMPONENTS (J7) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
45	Washer, Plain 13/32 Id X 13/16	021 01274 000	2	31
46	Ring, Balance Piston Seal	064 51509 000	1	31
47	Retainer, Balance Piston Seal Washer	064 51510 000	1	31
48	Washer, Spring Balance	064 51511 000	1	31
49	Impeller, 11.89 Eye Hard Coat (J7)	064 51499 001	1	31
50	Screw, Cap 12pt Hd 5/16	021 12197 000	1	34
51	Plug, Pipe 1/4 Hex Socket	023 01973 000	3	31
52	Device, VGD	364 51517 000	1	31
53	Plug, Hex Hd 7/16	023 18279 000	1	32
54	Screw, Cap 12pt Hd 5/16	021 11142 000	1	34
55	Fillpiece, PRV Device	064 51523 000	1	33
57	Dowel, Pin Str	029 24130 000	2	33
59	Screw, Cap 12 Pt Hd 1/2	021 11984 000	1	33
60	Plug, Hollow Hex 7/16"	023 18921 000	4	31
61	Screw, Cap Hex Soc Hd 1/4	021 29501 000	3	31
62	Tube, Oil Drain H.S. Thrust	064 51638 000	1	31
63	Screw, Cap Hex Soc Hd 1/4	021 02578 000	8	31
64	Screw, Drive Ty U #4 X 1/4	021 03720 000	8	32
65	Lever, PRV External	064 50613 000	1	34
66	Screw, Cap 12pt Hd 5/8	021 11553 000	56	31
67	Screw, Cap 12 Pt Hd 1/2	021 12165 000	6	31
68	Screw, Cap Hex Soc Hd 1/4	021 08993 000	3	31
69	Link, External	064 51549 000	1	34
70	Orifice, Set Screw	064 51402 000	1	31
71	Screw, Cap Hex Soc Hd 1/4	021 29576 000	8	31
72	Plug, Hex Hd 3/4	023 18280 000	2	32, 33
73	Plate, Mtg	064 47998 000	1	31
74	Screw, Cap Hex Soc Hd #10-32	021 31182 000	2	33, 34
75	Header, Spray	064 47999 000	1	31
76	Plug, Hex Hd 9/16	023 18962 000	8	31-33
†77	Seal, O-Ring Neoprene	028 12961 003	9	31-33
78	Tube, Gear Cooling	064 51248 000	1	31
79	Lockwasher, Hel Spg 5/16 Reg	021 05268 000	2	34
81	Nut, Hex 1/4 - 20 Unc-2b	021 00450 000	2	33
82	Pin, Dowel Tapped 3/8 Dia	029 18459 000	3	31
83	Hhcs, 0.250-20 X 1.250 Gr 5 BI	021 01392 000	2	33
84	Screw, Shoulder Soc Hd	021 17557 000	6	31
85	Plug, Hex Hd 1-5/16	023 18282 000	1	*
†86	Seal, O-Ring Neoprene	028 12961 008	1	*
87	Gasket, 2-1/2 Od X 2 Id X 1/32	064 47751 000	2	33
88	Bracket, Support Lower PRV	064 48851 000	1	34
89	Valve, Check Oil 1/8 Npte	022 04444 000	1	31

* Included in Bearing Kit (see APPENDIX A for additional details) † Included in O-Ring Kit

TABLE 16 - YD COMPRESSOR COMPONENTS (J7) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
91	Plate, Cover Handhole	064 50139 000	1	34
†92	Seal, O-Ring 5-7/8 Id X 1/8	028 12204 000	1	31, 34
93	Screw, Cap 12 Pt Hd 3/8	021 18808 000	3	31
†94	Seal, O-Ring 1-1/8 Id X 1/8	028 12200 000	4	33
95	Plug, PRV Assembly	064 50632 000	2	33
96	Plug, Pipe, Flush Type Hex	023 05366 000	3	31
†97	Seal, O-Ring Neoprene	028 12961 005	2	33
98	Hhcs, 0.375-16 X 2.000 Gr 5 Bl	021 01510 000	16	31
†99	Seal, O-Ring 6-3/4 Id X	028 15446 000	1	31
*103	Bearing, Low Speed Thrust	029 24757 000	1	31
104	Arm, Motor	064 51548 000	1	34
105	Screw, Cap 12pt Hd 3/8	021 11916 000	6	31
106	Screw, Cap 12 Pt Hd 3/8	021 31767 000	2	33
108	Fillpiece, VGD Device	064 51551 000	2	33
109	Hhcs, 0.375-16 X 3.750 Gr 5 Bl	021 17556 000	4	31
†110	Seal, O-Ring Molded 44.050 Id	028 15443 000	1	31
111	Link, External PRV	064 51789 000	1	33
112	Probe, Proximity 2 Piece Kit	364 51806 000	1	32
114	Valve, Stop Ang Vertical	022 09578 000	1	32
†115	Seal, O-Ring 8.234 Id X	028 15078 000	1	33
116	Nut, Hex 5/16 - 18unc-2b	021 02523 000	12	34
117	Rod, Adjustable PRV & VGD	364 51753 860	1	33
118	Ring, Eye Seal	064 51506 000	1	31
119	Retainer, Eye Seal	064 51507 000	1	31
120	Washer, Spring Eye	064 51508 000	1	31
†121	Seal, O-Ring Spliced 33.510 Id	028 15445 000	1	31
†122	Seal, O-Ring 5-5/8 Id X 5-7/8	028 12258 000	1	31
†123	Seal, O-Ring Neoprene	028 12961 001	1	33
†124	Seal, O-Ring 40.690 Id	028 15444 000	1	31
125	Screw, Cap Hex Soc Hd 1/4	021 17765 000	8	31
126	Spacer, Flanged, PRV & VGD	064 50612 000	4	34
127	Screw, Cap 12 Pt Hd 1/2	021 11926 000	4	33, 34
128	Lever, Internal VGD	064 51216 000	1	33
†129	Seal, O-Ring .351 Id X	028 13832 000	3	31, 32
†130	Seal, O-Ring Neoprene	028 12961 004	2	32
131	Screw, Cap 12pt Hd 3/8	021 11920 000	14	31, 34
135	Bushing, Garlock 16du12	029 24100 000	2	33
136	Lockwasher, Hel Spg #10 Reg	021 05265 000	2	33
137	Nut, Hex Mach Scr #10 - 32	021 08670 000	4	33, 34
139	Fillpiece, PRV Linkage	064 47727 000	1	33, 34
140	Screw, Cap 12 Pt Hd 1/2	021 11525 000	1	33
†141	Seal, O-Ring 7/16 Id X 3/32	028 15428 000	1	31

* Included in Bearing Kit (see APPENDIX A for additional details) † Included in O-Ring Kit

TABLE 16 - YD COMPRESSOR COMPONENTS (J7) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
142	Clamp, Tube 1/8 Od	023 06163 000	1	32
143	Screw, Cap Hex Soc Hd #8	021 19153 000	1	32
144	Screw, Cap 12pt Hd 5/16	021 19241 000	3	33, 34
145	Screw, Cap 12pt Hd 5/16	021 12202 000	1	34
300A	Support, Rotor with Bearing Housing (J7)	364 51498 000	1	*
300B	Scroll, Rotor (J7)	064 51500 000	1	*
300C	Plate, Diffuser (J7)	064 51504 000	1	*
301	Plate, Nozzle Base without VGD (J7)	064 51505 000	1	*
-	Bearing Kit, Compressor (J7)	464 51830 000	-	*
-	O-Ring Kit, Compressor (J7)	464 51832 000	-	*
-	Tool Kit, Compressor (J7)	364K51665 001	-	*

* Included in Bearing Kit (see APPENDIX A for additional details) † Included in O-Ring Kit

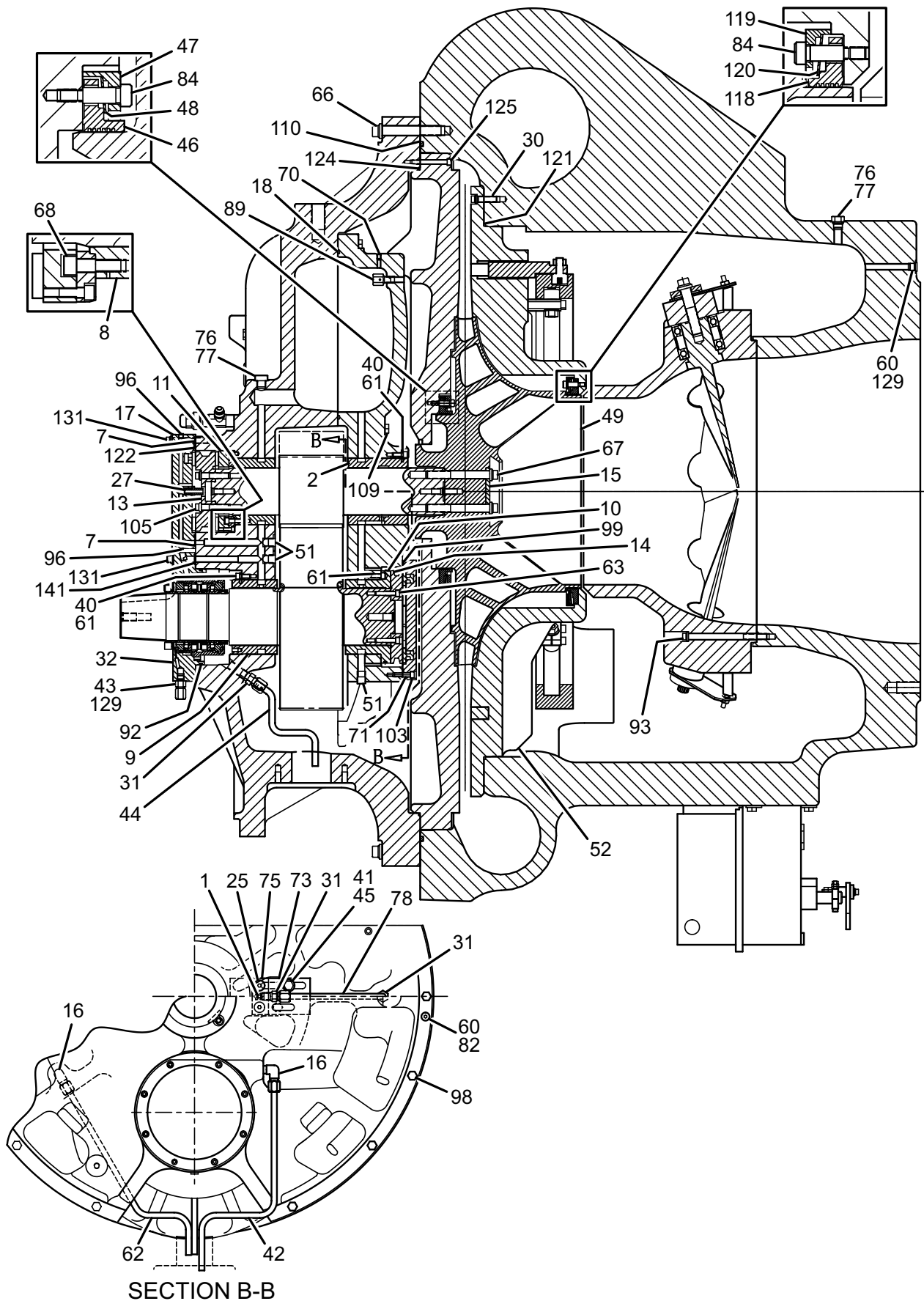


FIGURE 31 - YD COMPRESSOR COMPONENTS (J7)

LD12094

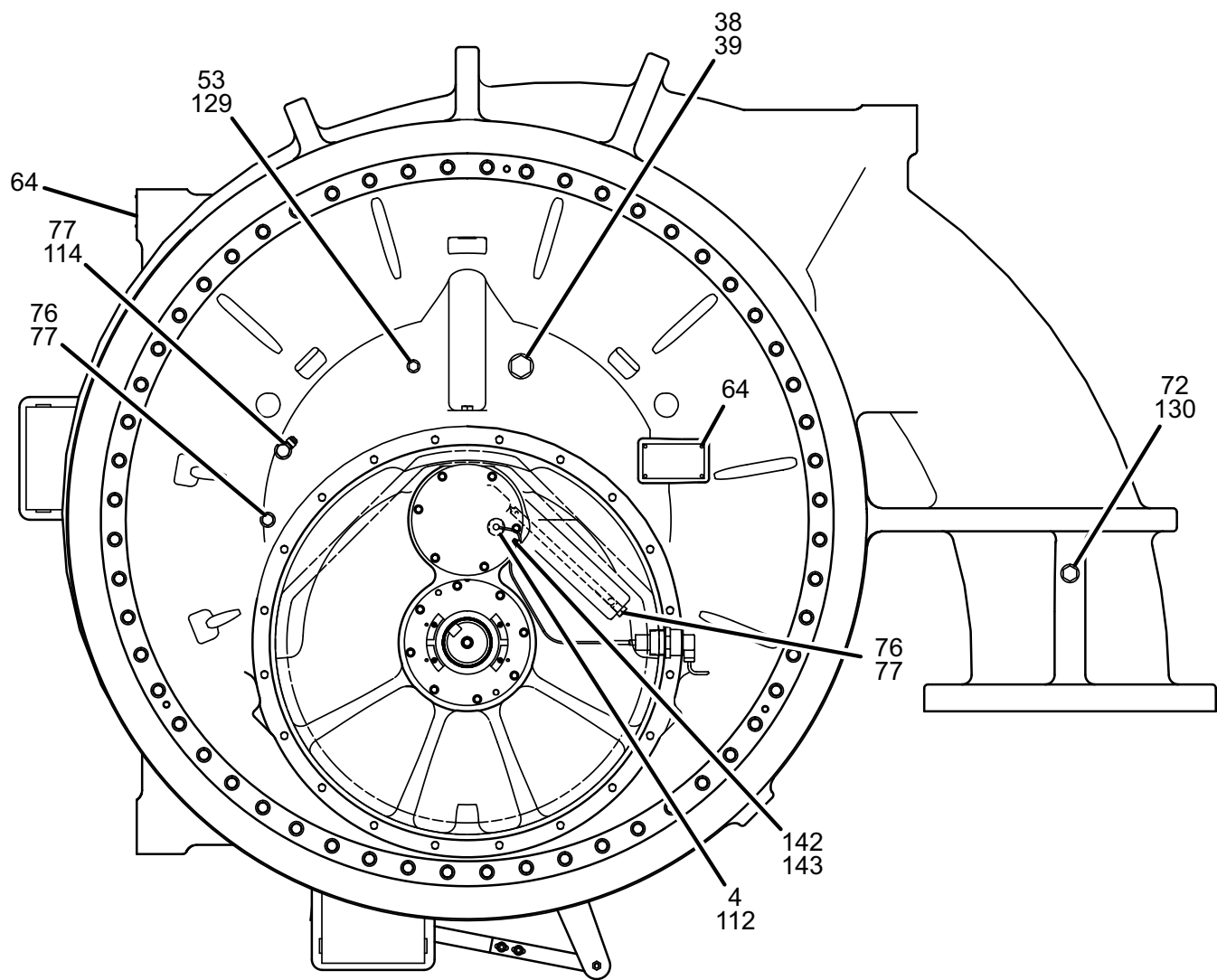


FIGURE 32 - YD COMPRESSOR COMPONENTS (J7)

LD12095

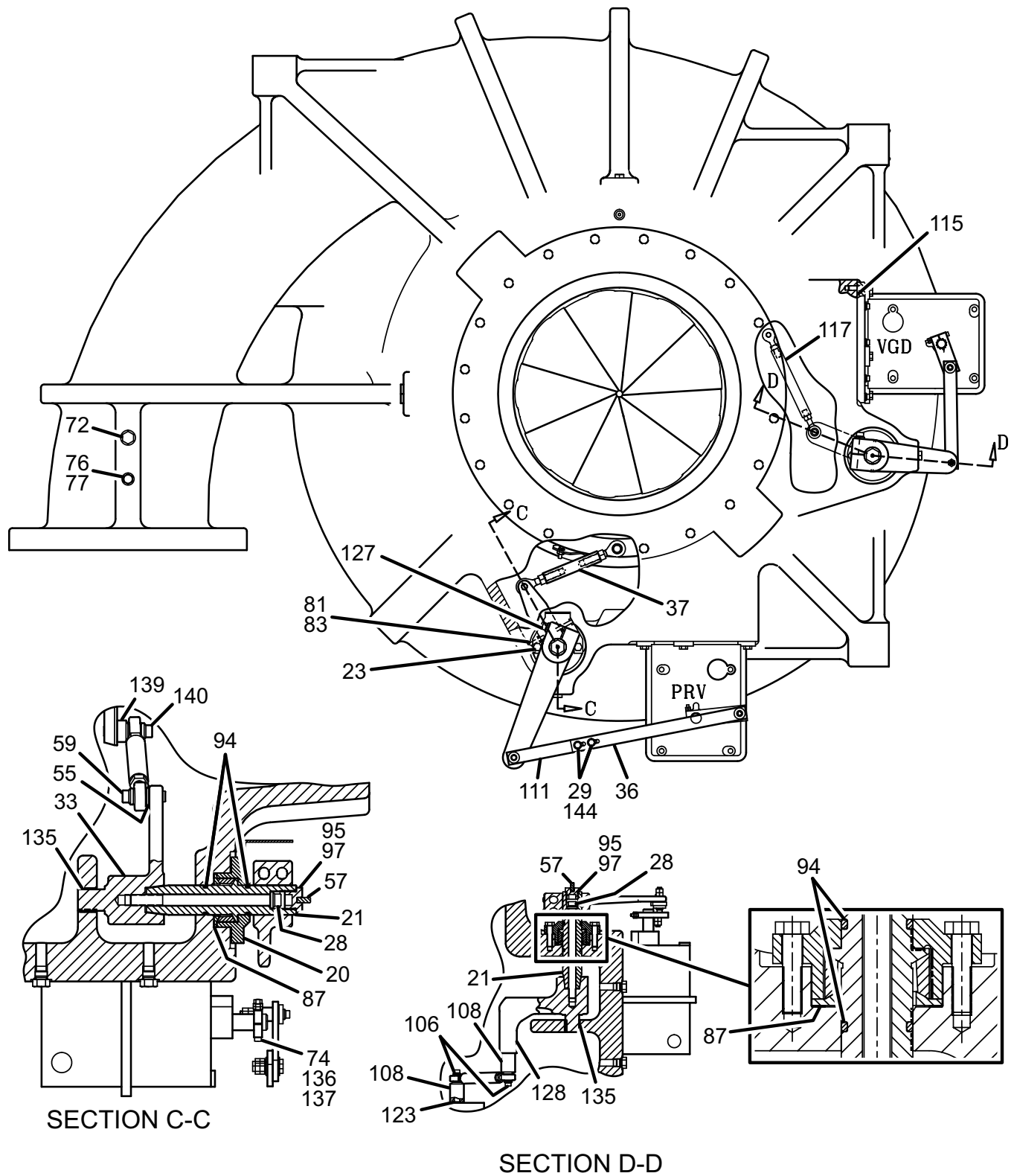


FIGURE 33 - YD COMPRESSOR COMPONENTS (J7)

LD12096

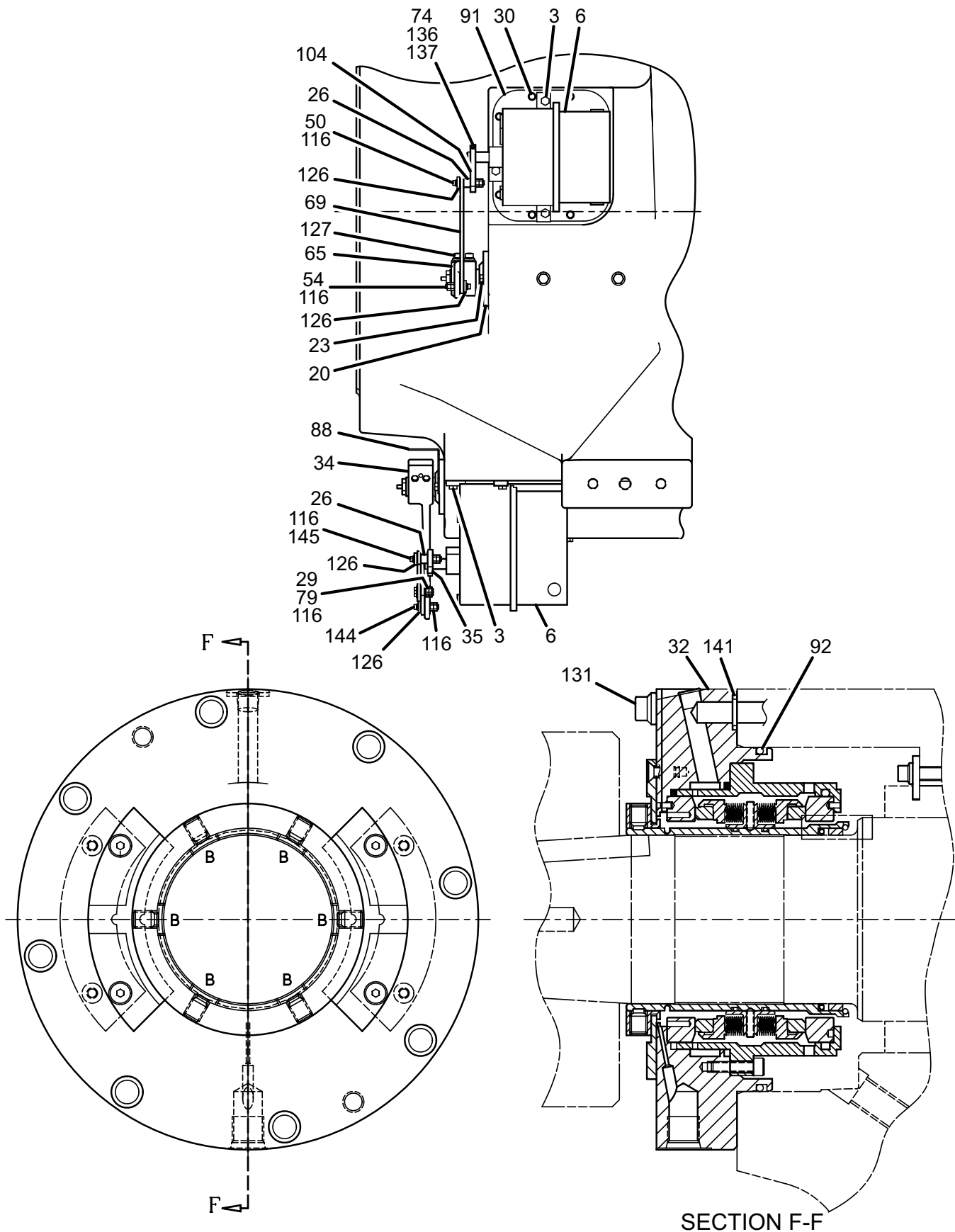


FIGURE 34 - COMPRESSOR COMPONENTS (J7)

LD12097

PRE-ROTATIONAL DEVICE

TABLE 17 - PRE-ROTATIONAL DEVICE (J7)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	Pre-Rotational Device Assembly (J7)	364 51515 000	1	-
1	Ring Vane Driving	064 51514 000	1	35
2	Vane Pre-Rotation	064 51503 000	9	35
3	Arm Pre-Rotation Vane	064 51513 000	9	35
4	Spacer Prv Arm	064 51512 000	9	35
5	Washer Special PRV Tj-Cb	064 47318 000	9	35
6	Washer Plain Lt 17/64 Id 1/2	021 11973 000	18	35
7	Stud Ball 1/4 -28 Unf W/	029 15924 000	9	35
8	Screw Cap 12 Pt Hd 1/2	021 17265 000	9	35
9	Nut Self Lock 1/4 - 28unf	021 12943 000	9	35
11	Housing, PRV (J7)	064 51502 000	1	35
12	Bearing, Ball Deep Groove	029 25081 000	18	35
13	Spacer, PRV Bearing	064 51783 000	9	35
14	Spring, Overlap Type Wave	029 25082 000	18	35

NOTE: Items with an * are NOT represented.

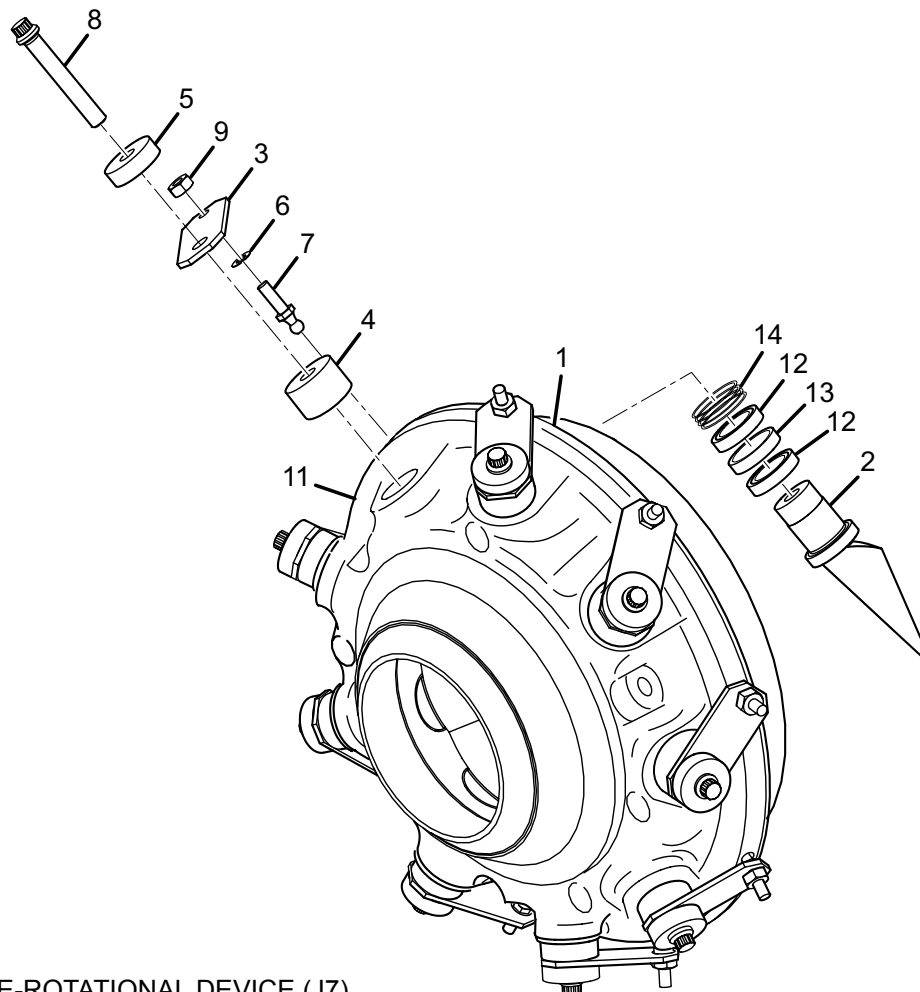


FIGURE 35 - PRE-ROTATIONAL DEVICE (J7)

LD15093a

VARIABLE GEOMETRY DIFFUSER

TABLE 18 - VARIABLE GEOMETRY DIFFUSER (J7)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	VGD Assembly with Nozzle Baseplate (J7)	364 51517 000	-	-
1	Ring, VGD Diffuser (J7)	064 51535 000	1	36
2	Screw, Cap Hex Soc Hd 5/16	021 31527 000	8	36
3	Pin, Drive	064 51533 000	4	36
4	Bearing, Mcgill Cf-3/4-B	029 24890 000	8	36
5	Nut, Hex 7/16 - 20 Unf-2b	021 31755 000	8	36
6	Spacer, VGD	064 50758 000	4	36
7	Bearing, Mcgill Cyr 1 3/8	029 24104 000	4	36
8	Screw, Cap Hex Soc Hd 3/8	021 01508 000	4	36
9	Washer, Plain .453 Id X .750 Od	021 31756 000	4	36
10	Support, Axial Bearing	064 51534 000	4	36
11	Bearing, Mcgill Cfe-1-B	029 24891 000	4	36
12	Screw, Cap Hex Soc Hd	021 31754 000	8	36
13	Washer, Plain	021 14111 000	2	36
14	Bushing, Garlock 16du12	029 24100 000	8	36
15	Washer, Conical Disk	021 31324 000	24	36
16	Washer, Plain Hardened 3/8 Id	021 31323 000	4	36
17	Screw, Cap Hex Soc Hd 1/4	021 18994 000	1	36
18	Screw, Set Hex Socket 1/4	021 31328 000	2	36
19	Pin, Tensioner VGD Drive Ring	064 50830 000	2	36
22	Block, Tensioner VGD Drive Ring	064 50824 000	2	36
23	Screw, Shoulder Soc Hd 5/16	021 31322 000	2	36
24	Screw, Cap Hex Soc Hd	021 31762 000	2	36
25	Ring, VGD Drive (J7)	064 51536 000	1	36

NOTE: Items with an * are NOT represented.

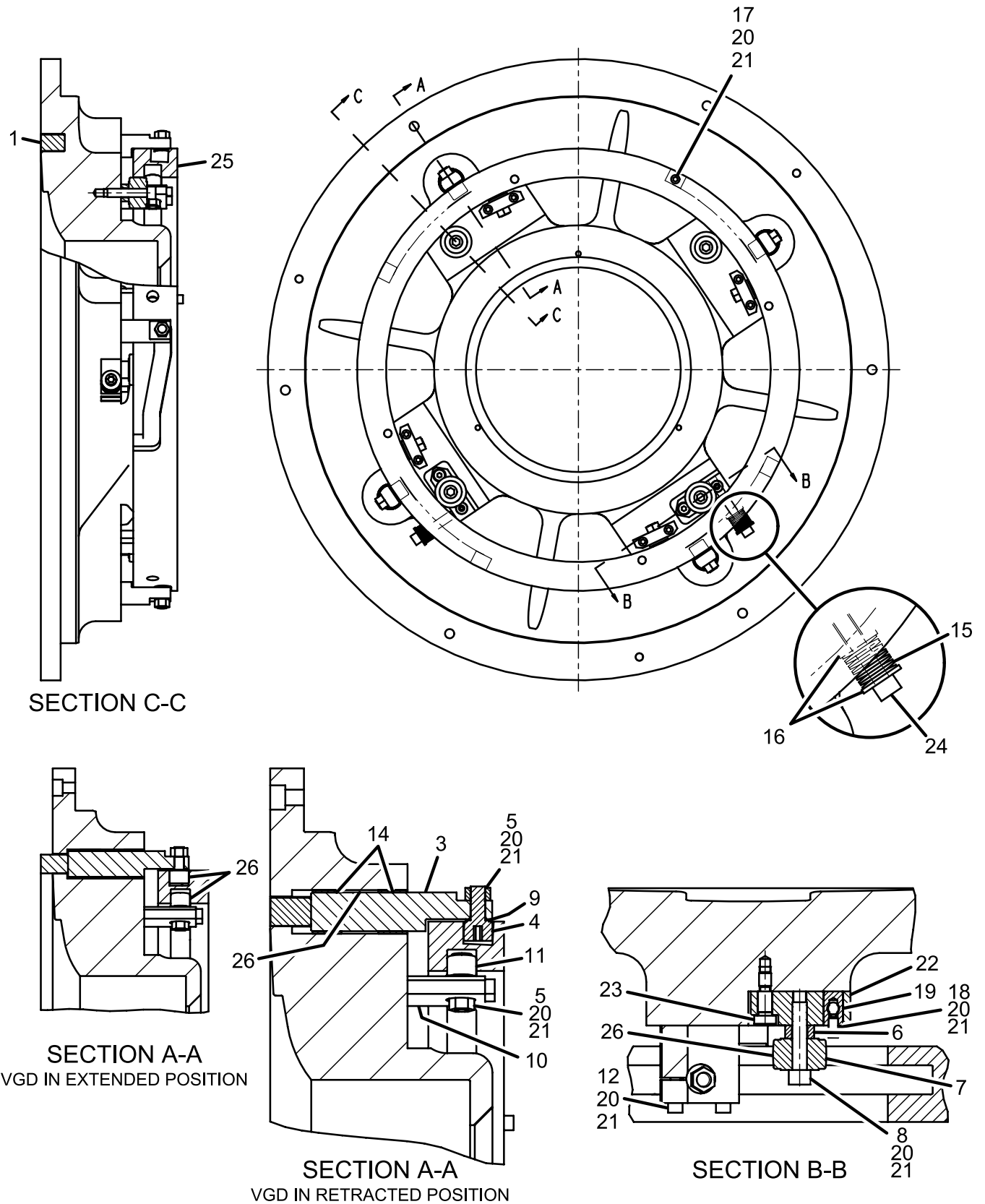


FIGURE 36 - VARIABLE GEOMETRY DIFFUSER (J7)

LD14839a

COMPRESSOR COMPONENTS

TABLE 19 - YD COMPRESSOR COMPONENTS (K1/K2)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Arm, PRV Motor (K1)	064 50614 000	1	40
	Arm, PRV Motor (K2)	064 51548 000	1	40
2	Arm, Motor (K1) (Prior to 3/2012)	064 50856 000	1	40
	Arm, Motor (K1) (After 3/2012)	064 53360 000	1	40
	Arm, Motor (K2) (Prior to 3/2012)	064 50614 000	1	40
	Arm, Motor (K2) (After 3/2012)	064 53364 000	1	40
*3	Bearing, H.S. Forward Thrust (K1/K2)	029 25618 000	1	37
*4	Bearing, H.S. Front (K1/K2)	064 50618 000	1	37
*5	Bearing, H.S. Rear (K1/K2)	064 52415 000	1	37
*6	Bearing, H.S. Reverse Thrust (K1/K2)	029 25042 001	1	37
*7	Bearing, L.S. Front (K1/K2)	064 50620 000	1	37
*8	Bearing, L.S. Rear (K1/K2)	064 50621 000	1	37
9	Bearing, L.S. Thrust (K1/K2)	029 23760 001	1	37
10	Bracket, Support Lower PRV	064 48851 000	1	40
11	Bushing, Garlock 16du12	029 24100 000	1	40
12	Clamp, Tube 1/8 Od	023 06163 000	1	39
*13	Collar, H.S. Thrust (K1/K2)	064 47904 000	1	37
14	Collar, Impeller Clamping	064 48123 000	1	37
15	Collar, Thrust L.S. (K1/K2)	064 47770 000	1	37
16	Connr, Cinch 3/8 Tube X	023 06801 000	3	37, 38
17	Connr, Fla M X M 1/4 Od Fla	023 23367 000	1	39
18	Cover, Shaft Control	064 51671 000	2	40
19	Dowel, Pin Str	029 24130 000	2	40
20	Elbow, Cinch 3/8 Tube	023 22141 000	2	38
22	Fillpiece, Prerot Device	064 10821 000	1	40
23	Fillpiece, Pre-Rotation Device	064 50765 000	1	40
24	Fillpiece, PRV Device	064 47727 000	2	40
26	Header, Spray (K1/K2)	064 48003 000	1	38
27	Impeller, 7.624 Eye Hard Coat (K1)	064 51758 001	1	37
	Impeller, 8.393 Eye Hard Coat (K2)	064 51630 001	1	37
28	Lever, Internal	064 50498 000	1	40
29	Lever, Internal VGD	064 51215 000	1	40
30	Lever, PRV External (K1/K2)	064 51703 000	2	40
31	Link, External VGD (K1/K2)	064 50723 000	1	40
32	Link, Ext Prv & Mot Tk131	064 46880 000	2	40
36	Nut, Hex Mach Scr #10 - 32	021 08670 000	2	40
37	Nut, Hex 5/16 - 18unc-2b:	021 02523 000	2	40
38	Nut, Flare Hydraulic 1/4 Od	023 09670 000	1	39, 40
39	Nut, Hex 1/4 - 20 Unc-2b:	021 00450 000	4	40
40	Orifice, HS Oil Feed (K1/K2)	064 48034 000	1	37
41	Orifice, Pipe Plug	064 51852 000	1	37
42	Pin, Dowel Tapped 3/8 Dia	029 18459 000	3	38

* Included in Bearing Kit † Included in O-Ring Kit

TABLE 19 - YD COMPRESSOR COMPONENTS (K1/K2) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
43	Plate, Handhole Cover (K1/K2)	064 50139 000	1	40
44	Plate, Mtg (K1/K2)	064 47998 000	1	38
45	Plug, Hex Hd 1-1/16	023 18295 000	1	39
46	Plug, Hex Hd 1-5/16	023 18282 000	2	37, 40
47	Plug, Hex Hd 3/4	023 18280 000	2	39, 40
48	Plug, Hex Hd 7/16	023 18279 000	2	37, 39
50	Plug, Hollow Hex 5/16-24unf-2a	023 24908 000	3	37
51	Plug, Pipe 1/4 Hex Socket	023 01973 000	3	37
52	Plug, PRV Assembly	064 50632 000	2	40
53	Plug, Hex Hd 9/16	023 18962 000	8	37, 38, 40
55	Probe, Proximity 2 Piece Kit	364 51806 000	1	39
56	Retainer, B.P. Seal (K1/K2)	064 51719 000	1	37
57	Retainer, Brg S Stage Turbo	064 46886 000	2	37, 38
58	Retainer, Eye Seal Washer (K1)	064 50322 000	1	37, 40
58	Retainer, Eye Seal Washer (K2)	064 51722 000	1	37, 40
59	Ring, Bal.Pist. Seal (K1/K2)	064 51718 000	1	37
60	Ring, Eye Seal (K1)	064 50320 000	1	37
60	Ring, Eye Seal (K2)	064 51721 000	1	37
61	Rod, Adjustable PRV & VGD	364 51754 694	1	40
62	Rod, Adjustable PRV & VGD	364 51753 675	1	40
†94	O-Ring, Neo1 00.468id .078thk M	028 12961 003	10	39, 40
†95	O-Ring, Neo1 00.924id .116thk M	028 12961 006	1	37, 39
†96	O-Ring, Neo1 00.301id .070thk M	028 12513 000	3	37, 39
†97	O-Ring, Neo1 00.755id .097thk M	028 12961 005	2	40
†98	O-Ring, Neo1 21.750id .139thk S (K1)	028 15588 000	1	37
†98	O-Ring, Neo1 23.91id .139thk S (K2)	028 15437 000	1	37
†99	O-Ring, Neo1 31.174id .139thk S	028 15072 000	1	37
†100	O-Ring, Neo1 37.050id .275thk M	028 15083 000	1	37
†101	O-Ring, Neo1 02.112id .103thk M	028 15432 000	2	40
†102	O-Ring, Neop 02.550id .103thk M	028 11976 000	3	37
†103	O-Ring, Neop 03.737id .103thk M	028 15074 000	2	37
†104	O-Ring, Neo1 01.109id .139thk M	028 12200 000	4	40
†105	O-Ring, Neop 02.234id .139thk M	028 03803 000	2	40
†106	O-Ring, Neo1 04.484id .139thk M	028 15576 000	1	37
†107	O-Ring, Neo1 05.234id .139thk M	028 15577 000	1	39
†108	O-Ring, Neop 07.984id .139thk M	028 12255 000	1	37, 40
†109	O-Ring, Neo1 08.234id .139thk M	028 15078 000	1	40
†110	O-Ring, Neo1 00.351id .072thk M	028 12961 001	3	37, 39, 40
†111	O-Ring, Neo1 00.644id .087thk M	028 12961 004	2	39, 40
†112	O-Ring, Neo1 01.171id .116thk M	028 12961 008	2	37, 40
†113	O-Ring, Hnbr 00.424id .103thk M	028 15428 000	1	39
115	Seal, Double Shaft (K1/K2)	029 25041 000	1	39

* Included in Bearing Kit † Included in O-Ring Kit

TABLE 19 - YD COMPRESSOR COMPONENTS (K1/K2) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
119	Shaft, Contl Prerot Device	364 51672 000	1	40
120	Shaft, Control VGD	364 51673 000	1	40
121	Sleeve, Flare Hydraulic 1/4 Od	023 10000 000	1	39
122	Spacer, .50 Lg X .33 Id X .63od	064 50611 000	2	40
123	Spacer, Flanged, PRV & VGD	064 50612 000	4	40
*124	Pin, Slot Spg 3/16 X 1/2	029 04138 000	1	38
125	Tube, Gear Cooling (K1/K2)	064 51249 000	1	38
126	Tube, L.S. Oil Drain	064 51221 000	1	38
127	Tube, Oil Drain Shaft Seal	064 51637 000	1	37
128	Tube, Oil Drain HS Thrust (K1/K2)	064 51762 000	1	38
129	Valve, Check Oil 1/8 Npte	022 04444 000	1	37
130	Valve, Stop Ang Vertical	022 09578 000	1	39
131	Washer, Bal Piston Spring (K1/K2)	064 51720 000	1	37
132	Washer, Plain Clipped Hardened	021 17593 000	40	37
133	Washer, Plain Hardened	021 17264 000	4	40
134	Washer, Plain Hardened 3/8 Id	021 31323 000	2	38
135	Washer, Spring	064 50324 000	1	37
136	PRV Motor Actuator with Harness	375 49340 103	2	40
136A	Motor, Actuator without Harness	025 29657 001	1	40
136B	Harness, System Wiring	575 49340 201	1	40
137	O-Ring, Hnbr 00.239id .064thk M	028 15846 000	4	37, 39
139	Tee, Cinch 1/2 Tube	023 22396 000	1	*
140	Tee, Instm Union 3/8 Tube	023 10595 000	1	*
149	Tube, Tee Drain	064 51462 000	1	*
193	Device, PRV (K1)	364 51763 000	1	37
	Device, PRV (K2)	364 51669 000	1	37
300A	Support, Rotor with Bearing Housing (K1)	364 51725 000	1	37
300B	Scroll, Rotor (K1)	064 51759 000	1	37
300C	Plate, Diffuser (K1)	064 52062 000	1	37
301	Plate, Nozzle Base without VGD (K1)	064 51761 000	1	37
300A	Support Rotor with Bearing Housing (K2)	364 51725 000	1	37
300B	Scroll, Rotor (K2)	064 51632 000	1	37
300C	Plate, Diffuser (K2)	064 52063 000	1	37
301	Plate, Nozzle Base without VGD (K2)	064 51634 000	1	37
-	Bearing Kit, Compressor (K1)	464 52064 000	-	*
-	Bearing Kit, Compressor (K2)	464 52064 000	-	*
-	O-Ring Kit, Compressor (K1)	464 52066 000	-	*
-	O-Ring Kit, Compressor (K2)	464 52067 000	-	*
-	Tool Kit, Compressor (K1)	464K51728 000	-	*
-	Tool Kit, Compressor (K2)	464K51844 000	-	*

* Included in Bearing Kit † Included in O-Ring Kit

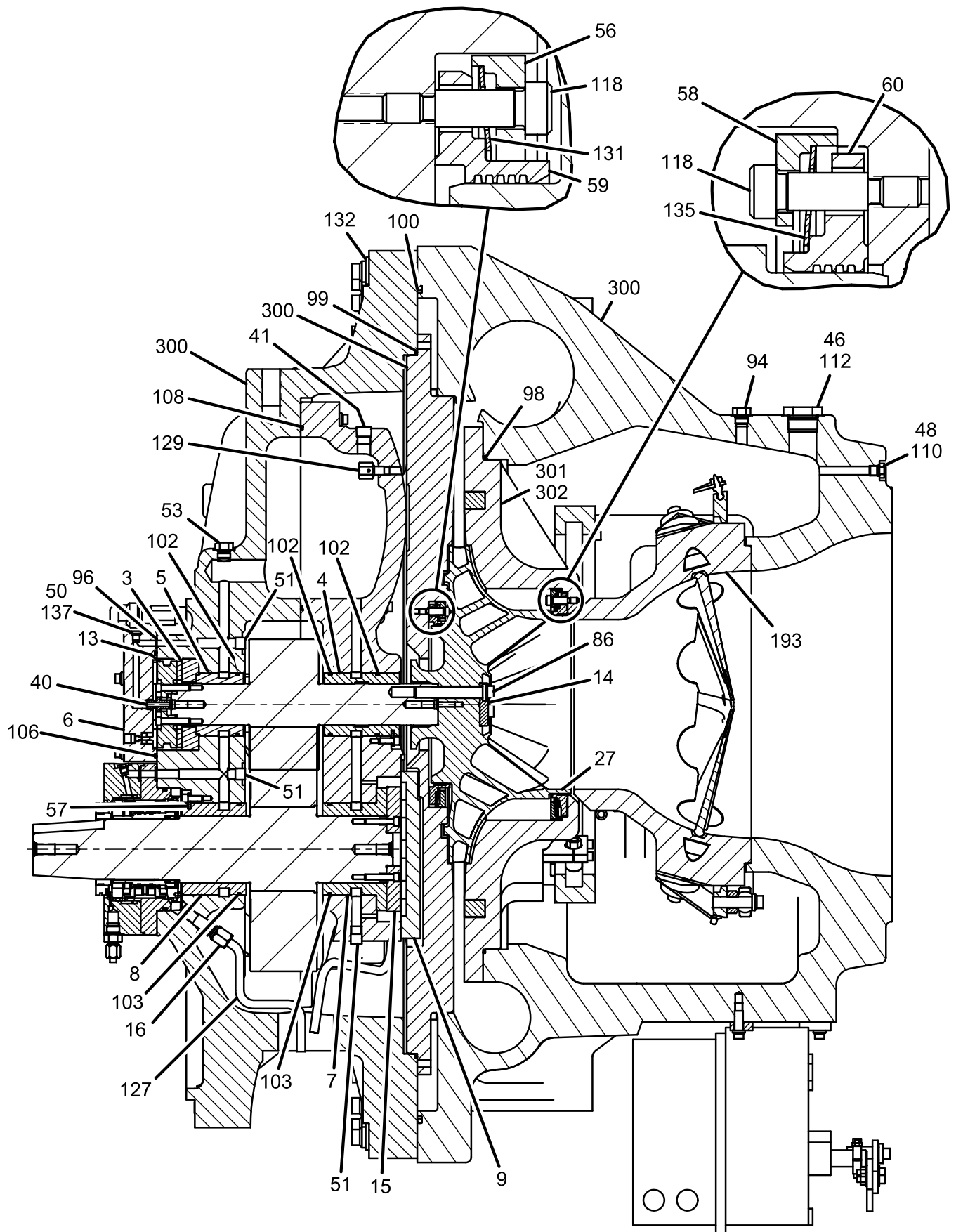
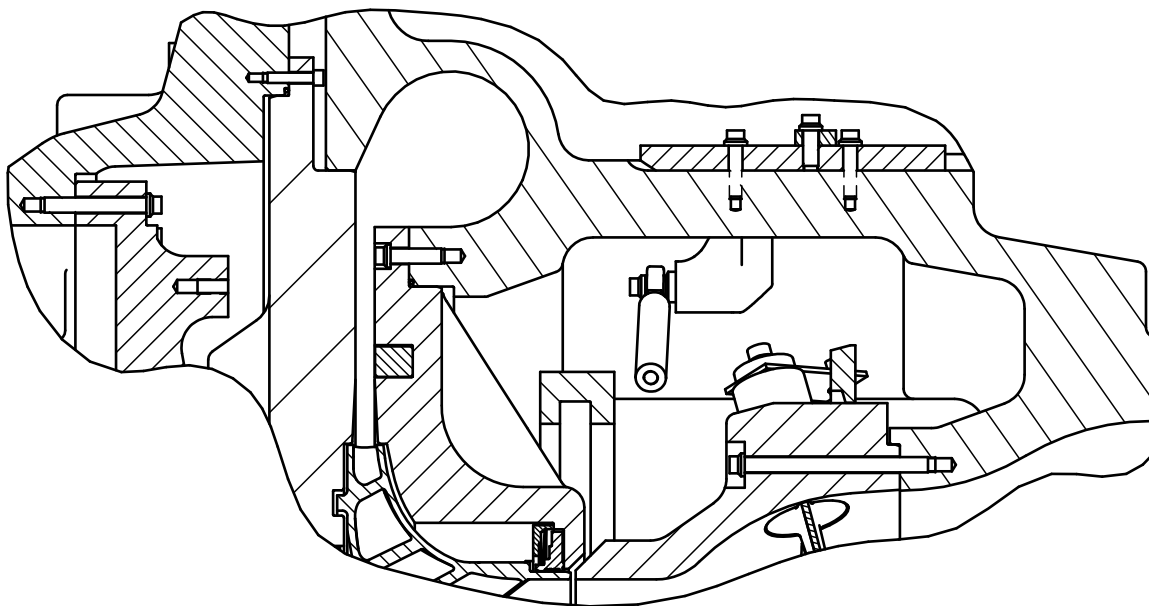
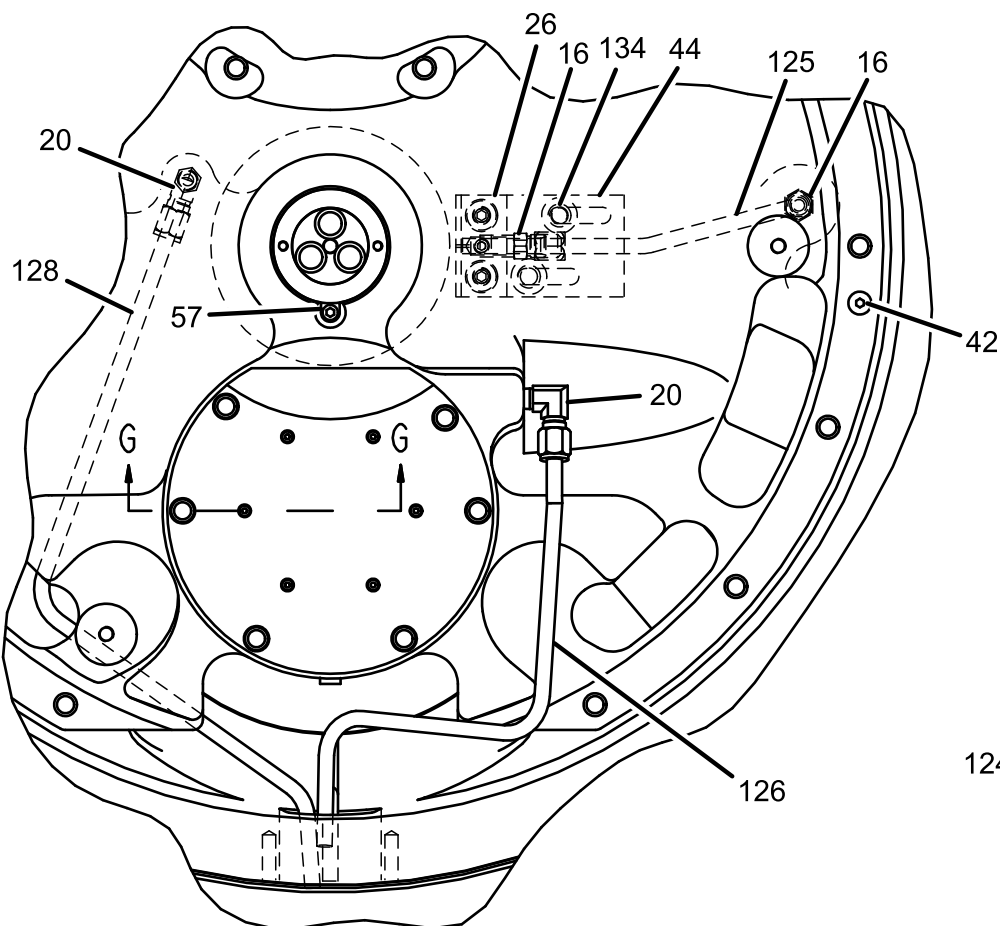


FIGURE 37 - COMPRESSOR COMPONENTS (K1/K2)

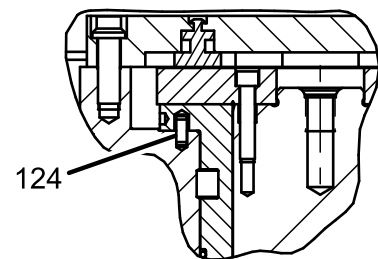
LD15092



SECTION J-J



SECTION B-B



SECTION G-G

FIGURE 38 - COMPRESSOR COMPONENTS (K1/K2)

LD15092

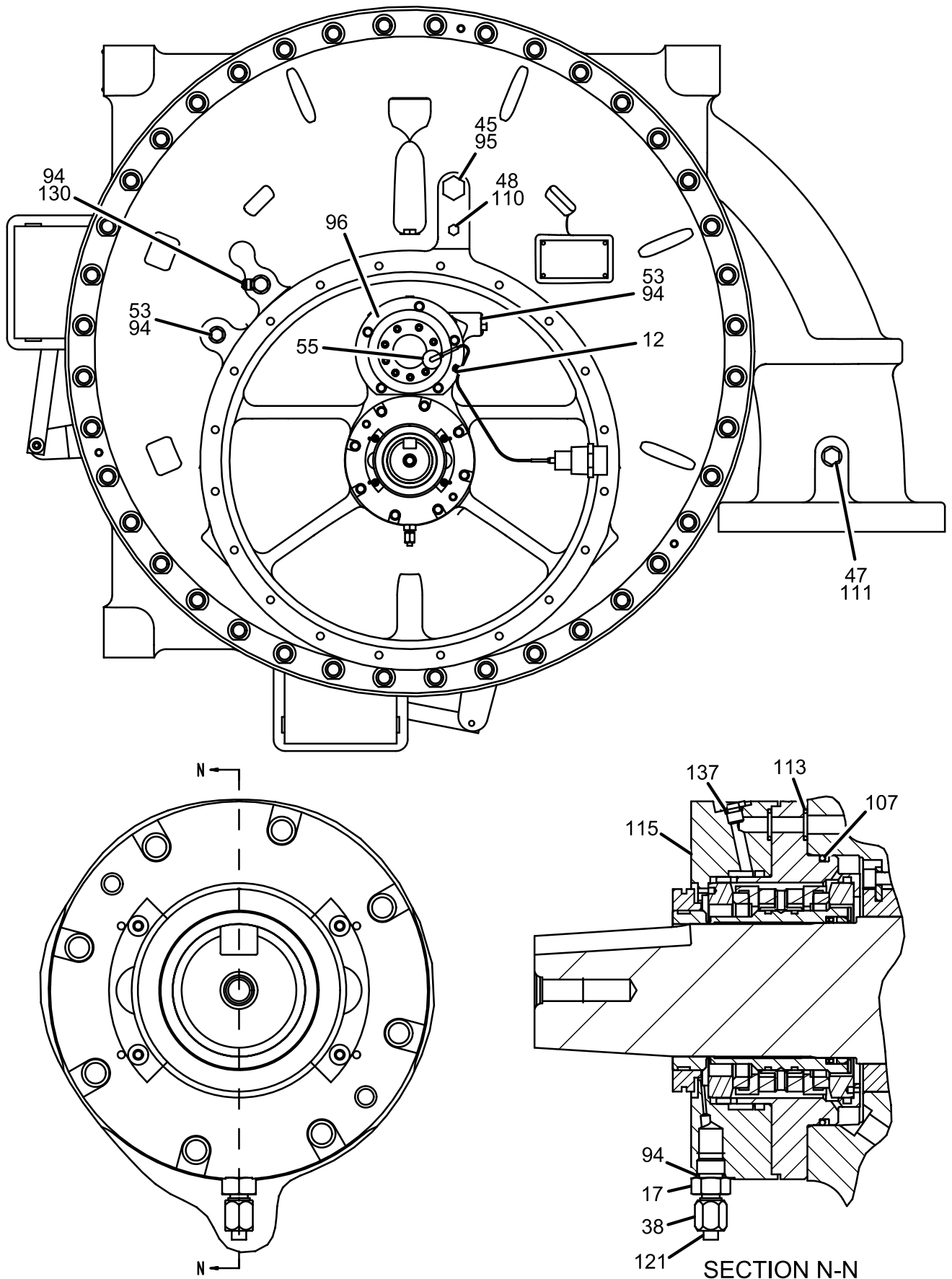


FIGURE 39 - COMPRESSOR COMPONENTS (K1/K2)

LD15167

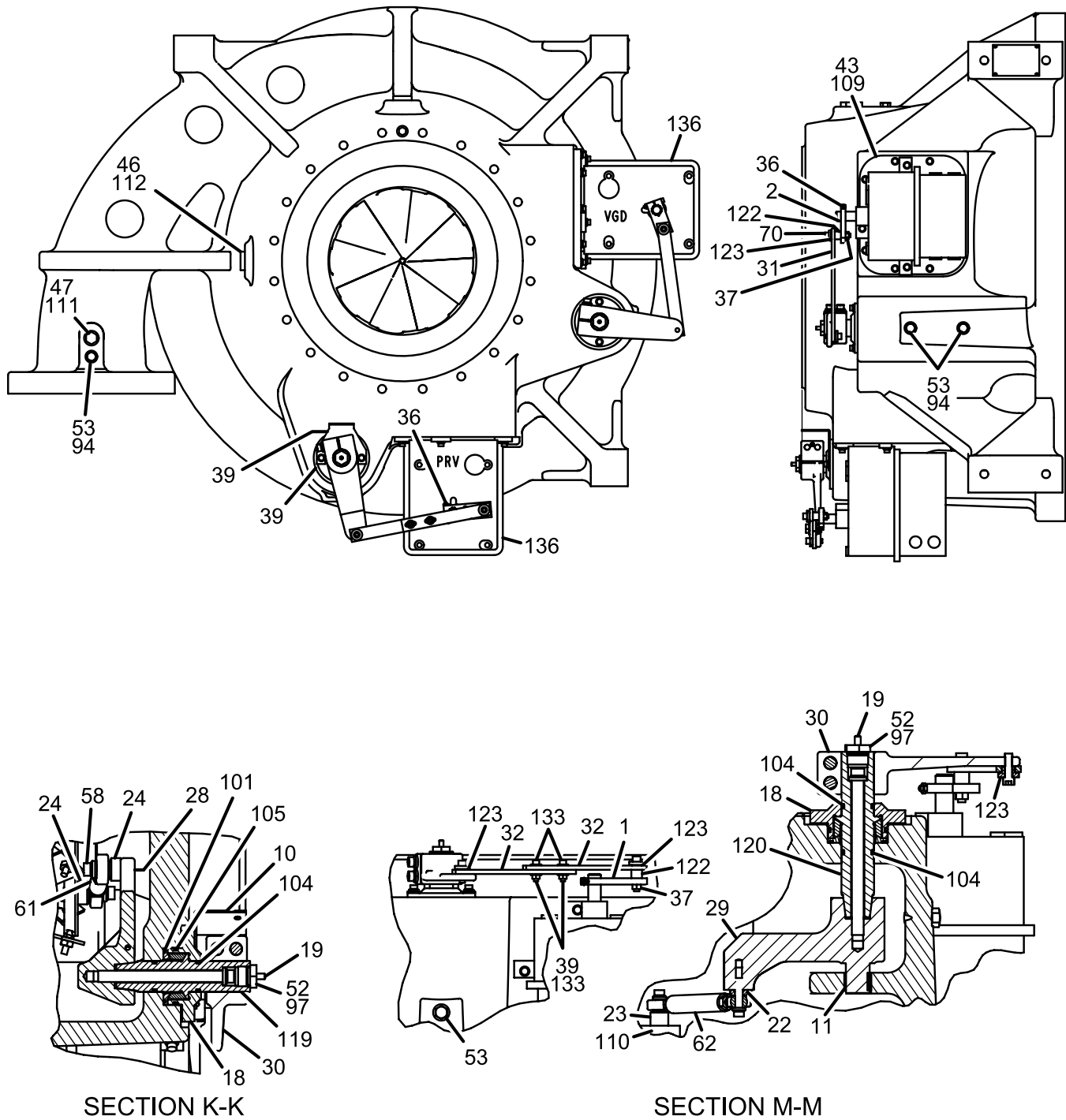


FIGURE 40 - COMPRESSOR COMPONENTS (K1/K2)

LD15168

PRE-ROTATIONAL DEVICE

TABLE 20 - PRE-ROTATIONAL DEVICE (K1/K2)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	Pre-Rotational Device Assembly (K1)	364 57667 000	-	-
-	Pre-Rotational Device Assembly (K2)	364 51763 000	-	-
1	Ring, Vane Driving K1-2	064 51667 000	1	41
2	Vane, Pre-Rotation K1-2	064 51641 000	9	41
3	Arm, Pre-Rotation Vane	064 47508 000	9	41
4	Spacer, Prv Arm K1-2	064 51668 000	9	41
5	Washer, Special Prv Tj-Cb	064 47516 000	9	41
6	Washer, Plain Lt 17/64 Id 1/2	021 11973 000	18	41
7	Stud, Ball 1/4 -28 Unf W/	029 15924 000	9	41
8	Screw, Cap 12 Pt Hd 1/2	021 11515 000	9	41
9	Nut, Self Lock 1/4 - 28unf	021 12943 000	9	41
11	Housing, PRV K1	064 51764 000	1	41
11	Housing, PRV K2	064 51642 000	1	41
12	Bearing, Ball Deep Groove	029 25106 000	18	41
13	Spacer	064 51815 000	9	41
14	Spring, Crest-To-Crest Type	029 25107 000	9	41

NOTE: Items with an * are NOT represented.

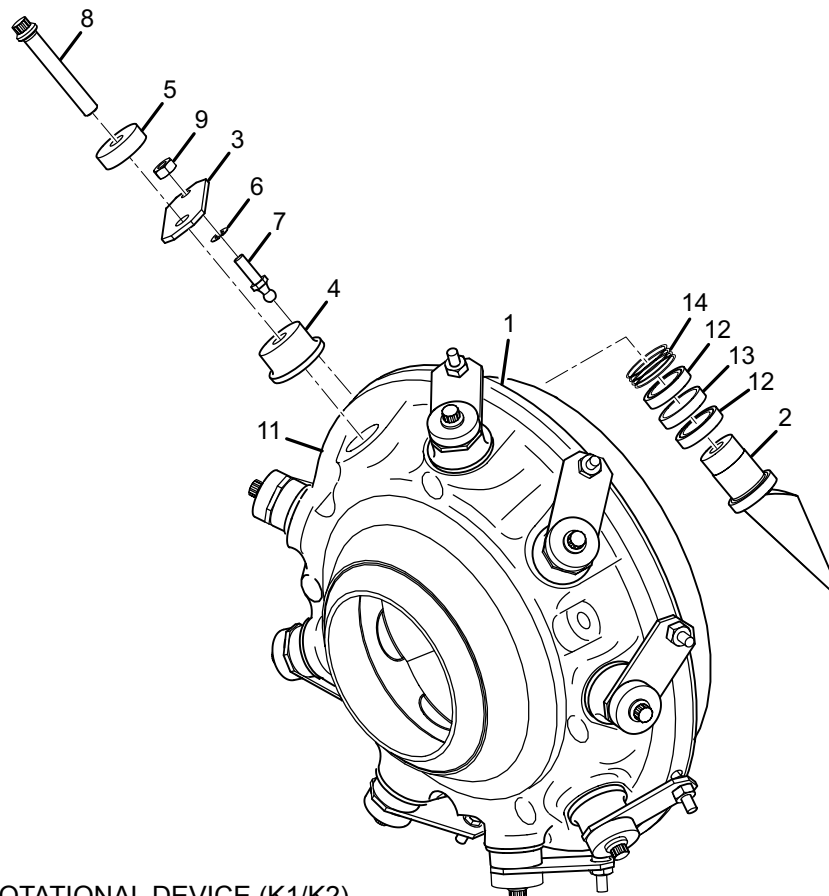


FIGURE 41 - PRE-ROTATIONAL DEVICE (K1/K2)

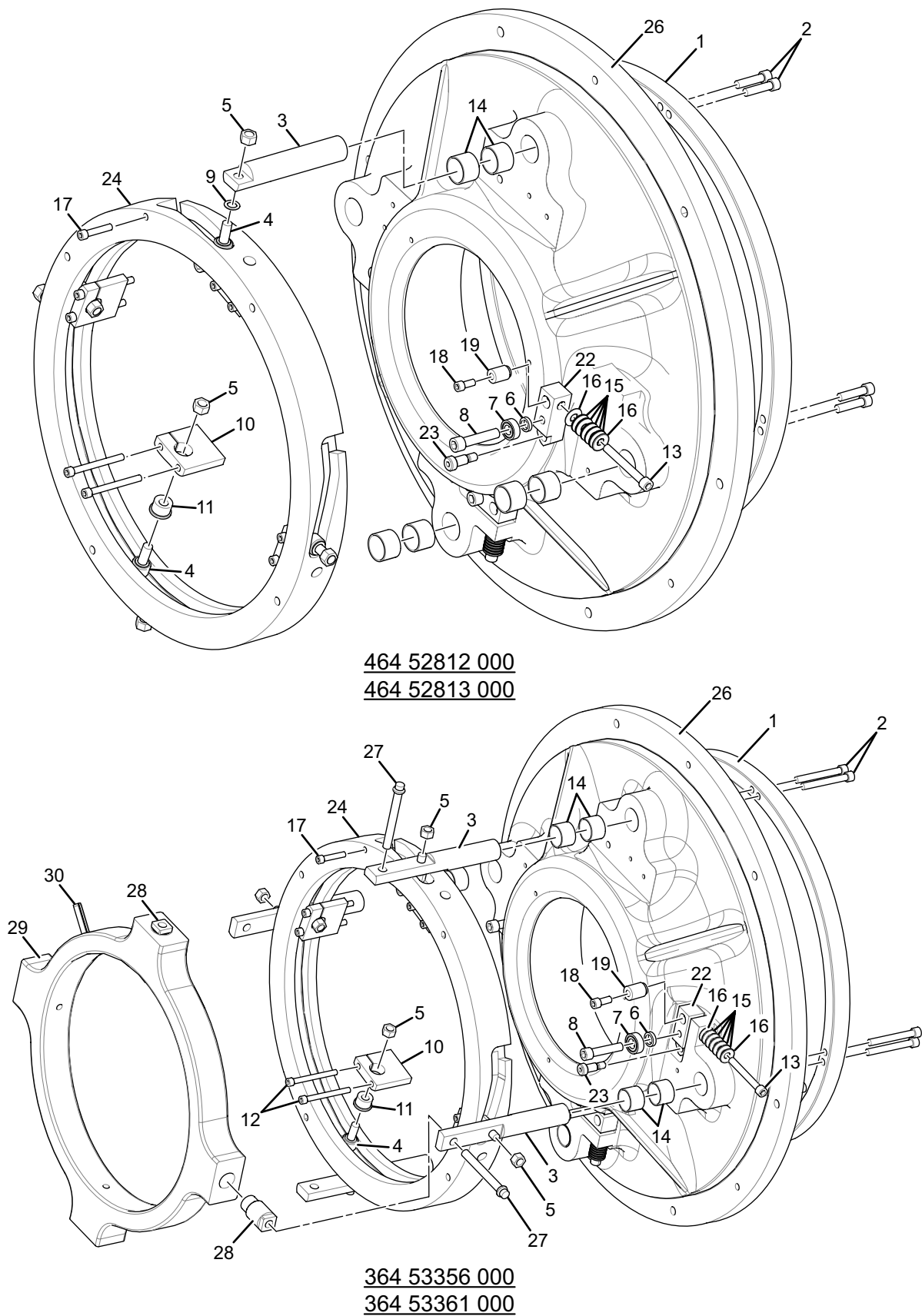
LD15093

VARIABLE GEOMETRY DIFFUSER

TABLE 21 - VARIABLE GEOMETRY DIFFUSER (K1/K2)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	VGD Assembly with Nozzle Baseplate (K1) (Prior to 3/2012)	464 52812 000	1	-
-	VGD Assembly with Nozzle Baseplate (K1) (After 3/2012)	364 53356 000	1	-
-	VGD Assembly with Nozzle Baseplate (K2) (Prior to 3/2012)	464 52813 000	1	-
-	VGD Assembly with Nozzle Baseplate (K2) (After 3/2012)	364 53361 000	1	-
1	Ring, VGD Diffuser (K1)	064 51767 000	1	42
	Ring, VGD Diffuser (K2)	064 51712 000	1	42
2	Screw, Cap Hex Soc Hd 5/16	021 31527 000	8	42
3	Pin, Drive (Prior to 3/2012)	064 50470 000	4	42
	Pin, Drive (After 3/2012)	064 53359 000	4	42
4	Bearing, Mcgill Cf-3/4-B	029 24103 000	8	42
5	Nut, Hex 3/8 - 24 Unf-2b:	021 00474 000	8	42
6	Spacer, VGD	064 50758 000	4	42
7	Bearing, Mcgill Cyr 1 3/8	029 24104 000	4	42
8	Screw, Cap Hex Soc Hd 3/8	021 01508 000	4	42
9	Washer, Plain .384 Id X 5/8 Od	021 31155 000	4	42
10	Support, Axial Bearing	064 51714 000	4	42
11	Bushing, Eccentric	064 51713 000	4	42
12	Screw, Cap Hex Soc Hd	021 19223 000	8	42
13	Screw, Cap Hex Soc Hd 5/16	021 31326 000	2	42
14	Bushing, Garlock 16du12	029 24100 000	8	42
15	Washer, Conical Disk	021 31324 000	24	42
16	Washer, Plain Hardened 3/8 Id	021 31323 000	4	42
17	Screw, Cap Hex Soc Hd 1/4	021 02578 000	1	42
18	Screw, Set Hex Socket 1/4	021 31328 000	2	42
19	Pin, Tensioner VGD Drive Ring	064 50830 000	2	42
22	Block, Tensioner VGD Drive Ring	064 50824 000	2	42
23	Screw, Shoulder Soc Hd 5/16	021 31322 000	2	42
24	Ring, Drive VGD (K1)	064 51766 000	1	42
	Ring, Drive VGD (K2)	064 51710 000	1	42
27	Screw, Cap 12 pt Hd 3/8 (After 3/2012)	021 11941 000	4	42
28	Insert, VGD Ring (After 3/2012)	064 53106 000	4	42
29	Ring, Stabilizing (K1) (After 3/2012)	064 53358 000	1	42
	Ring, Stabilizing (K2) (After 3/2012)	064 53363 000	1	42
30	Pin, Slot Spg 3/8 x 2 (After 3/2012)	029 09010 000	1	42

NOTE: Items with an * are NOT represented.



LD17248

FIGURE 42 - VARIABLE GEOMETRY DIFFUSER (K1/K2)

COMPRESSOR COMPONENTS

TABLE 22 - YD COMPRESSOR COMPONENTS (K3/K4)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Arm, PRV Motor (K3/K4)	064 50614 000	1	46
2	Arm, Motor (K3/K4) (Prior to 3/2012)	064 51401 000	1	46
	Arm, Motor (K3) (After 3/2012)	064 53338 000	1	46
	Arm, Motor (K4) (After 3/2012)	064 53339 000	1	46
*3	Bearing, H.S. Forward Thrust (K3/K4)	See APPENDIX A	1	43
*4	Bearing, H.S. Front (K3/K4)	064 51782 000	1	43
*5	Bearing, H.S. Rear (K3/K4)	See APPENDIX A	1	43
*6	Bearing, H.S. Reverse Thrust (K3/K4)	See APPENDIX A	1	43
*7	Bearing, L.S. Front (K3/K4)	064 47857 000	1	43
8	Bearing, L.S. Thrust (K3/K4)	029 24757 000	1	43
*9	Bearing, L.S. Rear (K3/K4)	064 47858 000	1	43
10	Bracket, Support Lower PRV	064 48851 000	1	46
11	Bushing, Garlock 16du12	029 24100 000	2	46
12	Clamp, Tube 1/8 Od	023 06163 000	1	44
*13	Collar, H.S. Thrust (K3/K4)	See APPENDIX A	1	43
14	Collar, Impeller Clamping	064 47853 000	1	43
15	Collar, L.S. Thrust (K3/K4)	064 51492 000	1	43
16	Connr, Cinch 3/8 Tube X	023 06801 000	3	43, 44
17	Connr, Fla M X M 1/4 Od Fla	023 23367 000	1	45
18	Cover, Shaft Control	064 51671 000	2	46
19	Dowel, Pin Str	029 24130 000	2	46
20	Elbow, Cinch 3/8 Tube X	023 22141 000	2	44
22	Fillpiece, Prerot Device	064 10821 000	1	46
23	Fillpiece, Pre-Rotation Device	064 50765 000	1	46
24	Fillpiece, PRV Device	064 47727 000	1	46
25	Fillpiece, PRV Device	064 51523 000	1	46
27	Header, Spray (K3/K4)	064 47999 000	1	44
28	Impeller, 9.512 Eye Diameter (K3)	064 51729 001	1	43
28	Impeller, 10.631 Eye Hard Coat (K4)	064 51730 001	1	43
29	Lever, Internal	064 51653 000	1	46
30	Lever, Internal VGD	064 51216 000	1	46
31	Lever, PRV External	064 50613 000	2	46
32	Link, External VGD (K3/K4)	064 50723 000	1	46
33	Link, Ext PRV & Mot Tk131	064 46880 000	2	46
37	Nut, Hex Mach Scr #10 - 32	021 08670 000	2	46
38	Nut, Hex 5/16 - 18unc-2b:	021 02523 000	4	46
39	Nut, Flare Hydraulic 1/4 Od	023 09670 000	1	45
40	Nut, Hex 1/4 - 20 Unc-2b:	021 00450 000	4	46
41	Orifice, Pipe Plug Yk Compr	064 51852 000	1	43
42	Orifice, H.S. Oil Feed Hd 46-61	064 49203 000	1	43
43	Pin, Dowel Tapped 3/8 Dia	029 18459 000	3	44
44	Plate, Handhole Cover H 65-104	064 50139 000	1	46

* Included in Bearing Kit (see APPENDIX A for additional details)

† Included in O-Ring Kit

TABLE 22 - YD COMPRESSOR COMPONENTS (K3/K4) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
45	Plate, Mtg Ha50-73	064 47998 000	1	44
46	Plug, Hex Hd 1-1/16	023 18295 000	1	45
47	Plug, Hollow Hex 1-7/8"	023 18926 000	2	43, 46
48	Plug, Hex Hd 3/4	023 18280 000	2	45, 46
49	Plug, Hex Hd 7/16	023 18279 000	2	43, 45
50	Plug, Hollow Hex 7/16"	023 18921 000	3	44
51	Plug, Hollow Hex 5/16-24unf-2a	023 24908 000	3	43
52	Plug, Pipe 1/4 Hex Socket	023 01973 000	3	43
53	Plug, PRV Assembly	064 50632 000	2	46
54	Plug, Hex Hd 9/16	023 18962 000	9	43, 45, 46
56	Probe, Proximity 2 Piece Kit	364 51806 000	1	45
57	Retainer, B.P. Seal Washer (K3)	064 50239 000	1	43
57	Retainer, B.P. Seal Washer (K4)	064 51510 000	1	43
58	Retainer, Brg S Stage Turbo	064 46886 000	2	44
59	Retainer, Eye Seal (K3)	064 51778 000	1	43
	Retainer, Eye Seal (K4)	064 51827 000	1	43
60	Ring, Bal.Pist. Seal (K3)	064 50238 000	1	43
	Ring, Bal.Pist. Seal (K4)	064 51509 000	1	43
61	Ring, Eye Seal (K3)	064 51777 000	1	43
	Ring, Eye Seal (K4)	064 51826 000	1	43
62	Rod, Adjustable PRV & VGD	364 51754 731	1	46
63	Rod, Adjustable PRV & VGD	364 51753 681	1	46
64	Screw, Cap Hex Soc Hd #10	021 31829 000	2	46
65	Screw, Cap Hex Soc Hd #8	021 19153 000	1	45
66	Screw, Cap Hex Soc Hd 1/4	021 29576 000	10	44, 46
67	Screw, Cap Hex Soc Hd 1/4	021 18994 000	8	43
68	Screw, Cap Hex Soc Hd 1/4	021 02578 000	4	43
69	Screw, Cap Hex Soc Hd 1/4	021 12643 000	6	43
*70	Screw, Cap Hex Soc Hd 1/4	021 29501 000	3	44
71	Screw, Cap Hex Soc Hd 1/4	021 08993 000	3	43
72	Screw, Cap Hex Soc Hd 5/16	021 02581 000	2	46
73	Screw, Cap Hex Soc Hd 5/16	021 16173 000	2	46
74	Screw, Shoulder Soc Hd	021 17557 000	6	43
75	Screw, Cap 12 Pt Hd 3/8 -	021 11139 000	6	46
76	Screw, Cap 12 Pt Hd 3/8 -	021 11141 000	10	44, 46
78	Screw, Cap 12 Pt Hd 3/8	021 11149 000	2	44
79	Screw, Cap 12 Pt Hd 3/8-16x1-1/	021 11175 000	10	44, 46
80	Screw, Cap 12 Pt Hd 5/8 -	021 11553 000	56	43
81	Screw, Cap 12 Pt Hd 3/8	021 11917 000	16	44
82	Screw, Cap 12 Pt Hd 3/8 -	021 11920 000	14	43, 45
83	Screw, Cap 12 Pt Hd 3/8	021 17553 000	1	46
84	Screw, Cap 12 Pt Hd 3/8 -	021 17618 000	1	46

* Included in Bearing Kit (see APPENDIX A for additional details)

† Included in O-Ring Kit

TABLE 22 - YD COMPRESSOR COMPONENTS (K3/K4) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
85	Screw, Cap 12 Pt Hd 3/8	021 18808 000	3	44
86	Screw, Cap 12 Pt Hd 3/8	021 18788 000	4	43
87	Screw, Cap 12 Pt Hd 1/2	021 11926 000	4	46
88	Screw, Cap 12 Pt Hd 1/2	021 11525 000	2	46
89	Screw, Cap 12 Pt Hd 1/2	021 12165 000	6	43
90	Screw, Cap 12 Pt Hd 1/2	021 31600 000	2	46
91	Hhcs, 0.250-20 X 1.500 Gr 5 Bl	021 13223 000	2	46
93	Screw, Cap Flat Soc Hd 3/8	021 13856 000	2	44
94	Screw, Set Hex Soc Cup Pt	021 00774 000	1	44
†95	O-Ring, Neo1 00.468id .078thk M	028 12961 003	11	43, 45, 46
†96	O-Ring, Neo1 00.924id .116thk M	028 12961 006	1	45
†97	O-Ring, Neo1 00.301id .070thk M	028 12513 000	3	43
†98	O-Ring, Neo1 00.755id .097thk M	028 12961 005	2	46
†99	O-Ring, Neo1 27.560id .139thk (K3)	028 15565 000	1	43
†99	O-Ring, Neo1 31.174id .139thk (K4)	028 15072 000	1	43
†100	O-Ring, Hnbr 40.690id .139thk S	028 15444 000	1	43
†101	O-Ring, Hnbr 44.050id .275thk M	028 15443 000	1	43
†102	O-Ring, Neo1 02.112id .103thk M	028 15432 000	2	46
†103	O-Ring, Hnbr 06.737id .103thk M	028 15446 000	1	43
†104	O-Ring, Neo1 01.109id .139thk M	028 12200 000	4	46
†105	O-Ring, Neop 02.234id .139thk M	028 03803 000	2	46
†106	O-Ring, Neop 05.609id .139thk M	028 12258 000	1	43
†107	O-Ring, Neo1 08.234id .139thk M	028 15078 000	1	46
†108	O-Ring, Neop 10.484id .139thk M	028 12226 000	1	43
†109	O-Ring, Neo1 00.351id .072thk M	028 12961 001	3	43, 45, 46
†110	O-Ring, Neo1 00.644id .087thk M	028 12961 004	2	45, 46
†111	O-Ring, Special 3 - 924	028 13865 000	2	43, 46
†112	O-Ring, Hnbr 00.424id .103thk M	028 15428 000	1	45
†113	O-Ring, Neo1 00.301id .064thk M	028 12961 021	1	45
114	Seal, Double Shaft (K3/K4)	029 24762 000	1	45
†115	O-Ring, Neo1 05.859id .139thk M	028 12204 000	1	45
119	Shaft, Contl VGD	364 51673 000	2	46
120	Sleeve, Flare Hydraulic 1/4 Od	023 10000 000	1	45
121	Spacer, .50 Lg X .33 Id X .63od	064 50611 000	2	46
122	Spacer, Flanged, PRV & VGD	064 50612 000	4	46
123	Tube, Gear Cooling Ha65-104	064 51248 000	1	44
124	Tube, L.S. Oil Drain Ha 65-104	064 51222 000	1	44
125	Tube, Oil Drain Shaft Seal	064 51637 000	1	43
126	Tube, Oil Drain H.S. Thrust	064 51638 000	1	44
127	Valve, Check Oil 1/8 Npte	022 04444 000	1	43
128	Valve, Stop Ang Vertical	022 09578 000	1	45
129	Washer, Eye Spring (K3)	064 51779 000	1	43

* Included in Bearing Kit (see APPENDIX A for additional details)

† Included in O-Ring Kit

TABLE 22 - YD COMPRESSOR COMPONENTS (K3/K4) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
129	Washer, Eye Spring (K4)	064 51828 000	1	43
130	Washer, Plain Hardened	021 17264 000	4	46
131	Washer, Plain Hardened 3/8 Id	021 31323 000	2	44
132	Washer, Spring Balance (K3)	064 50240 000	1	43
132	Washer, Spring Balance (K4)	064 51511 000	1	43
133	PRV Motor Actuator with Harness	375 49340 103	2	46
133A	Motor, Actuator without Harness	025 29657 001	1	46
133B	Harness, System Wiring	075 49340 200	1	46
134	O-Ring, Hnbr 00.239id .064thk M	028 15846 000	4	43, 45
193	Device, PRV (K3)	364 51772 000	1	43
	Device, PRV (K4)	364 51772 001	1	43
300A	Support, Rotor with Bearing Housing (K3)	064 51496 000	1	*
300B	Scroll, Rotor (K3)	064 52646 000	1	*
300C	Plate, Diffuser (K3)	064 51627 000	1	*
301	Plate, Nozzle Base without VGD (K3)	064 51773 000	1	*
300A	Support, Rotor with Bearing Housing (K4)	064 51496 000	1	*
300B	Scroll, Rotor (K4)	064 52647 000	1	*
300C	Plate, Diffuser (K3)	064 51820 000	1	*
301	Plate, Nozzle Base without VGD (K4)	064 51822 000	1	*
-	Bearing Kit, Compressor (K3/4)	464 52064 001	-	*
-	O-Ring Kit, Compressor (K3)	464 52065 000	-	*
-	O-Ring Kit, Compressor (K4)	464 52066 000	-	*
-	Tool Kit, Compressor (K3/K4)	364K51835 000	-	*

NOTE: Items with an * are NOT represented.

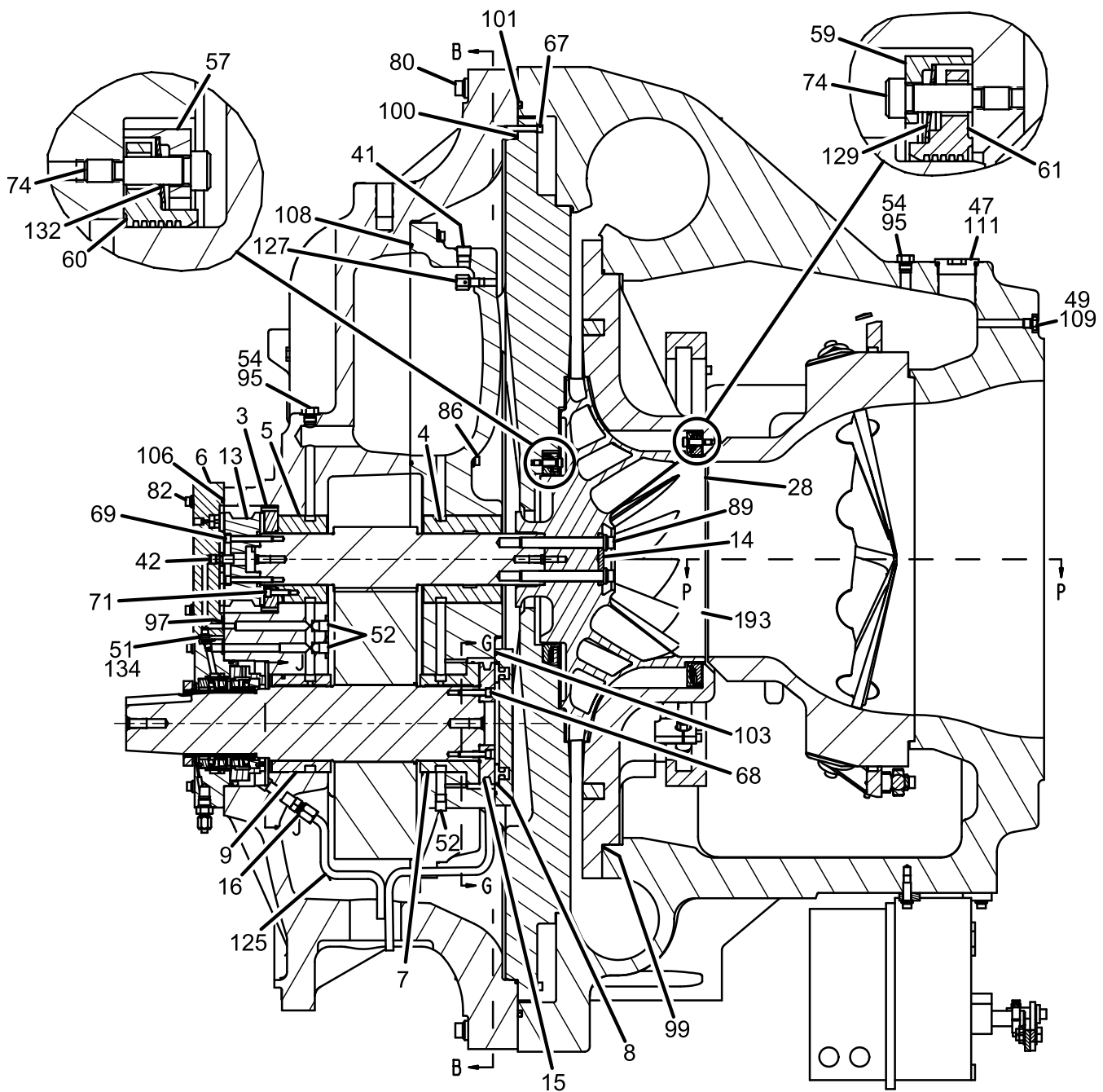


FIGURE 43 - COMPRESSOR COMPONENTS (K3/K4)

LD15169

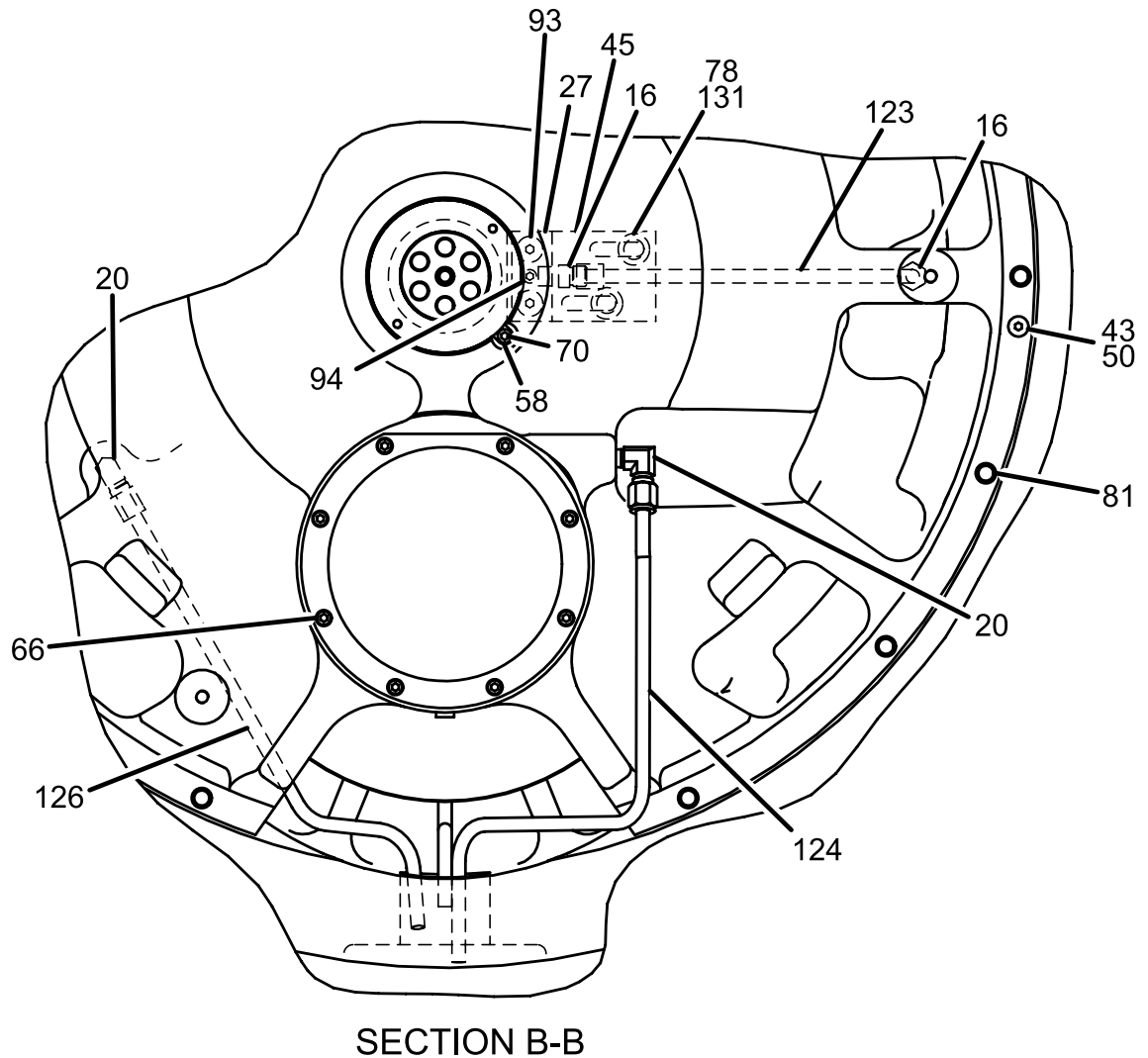
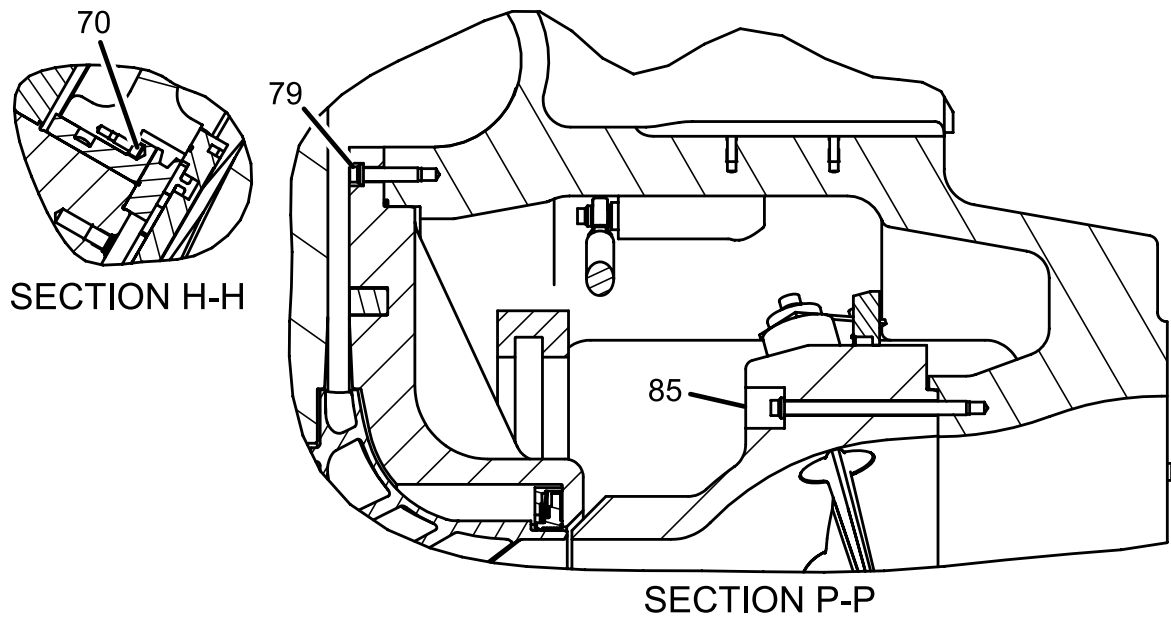


FIGURE 44 - COMPRESSOR COMPONENTS (K3/K4)

LD15170

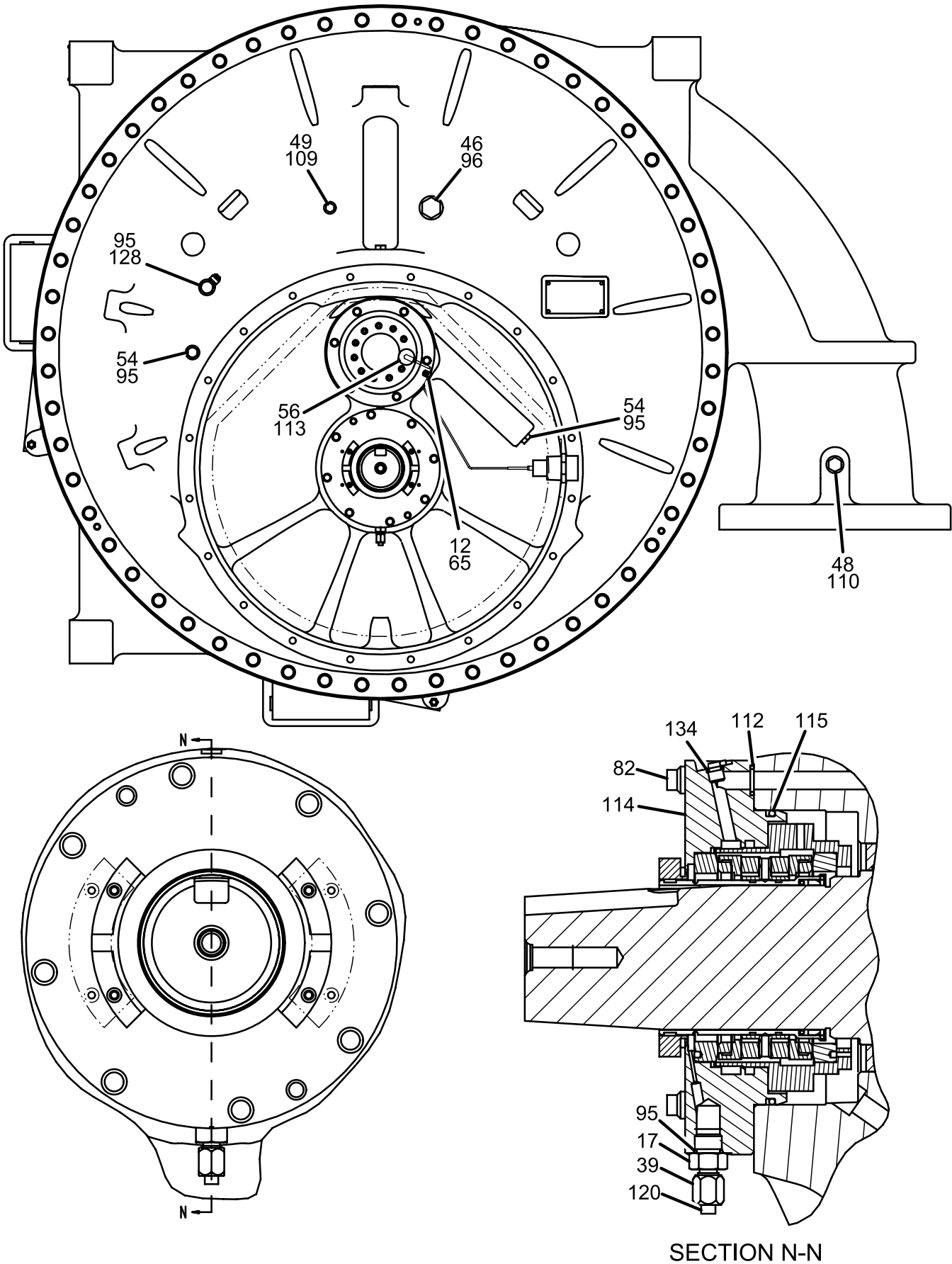


FIGURE 45 - COMPRESSOR COMPONENTS (K3/K4)

LD15171

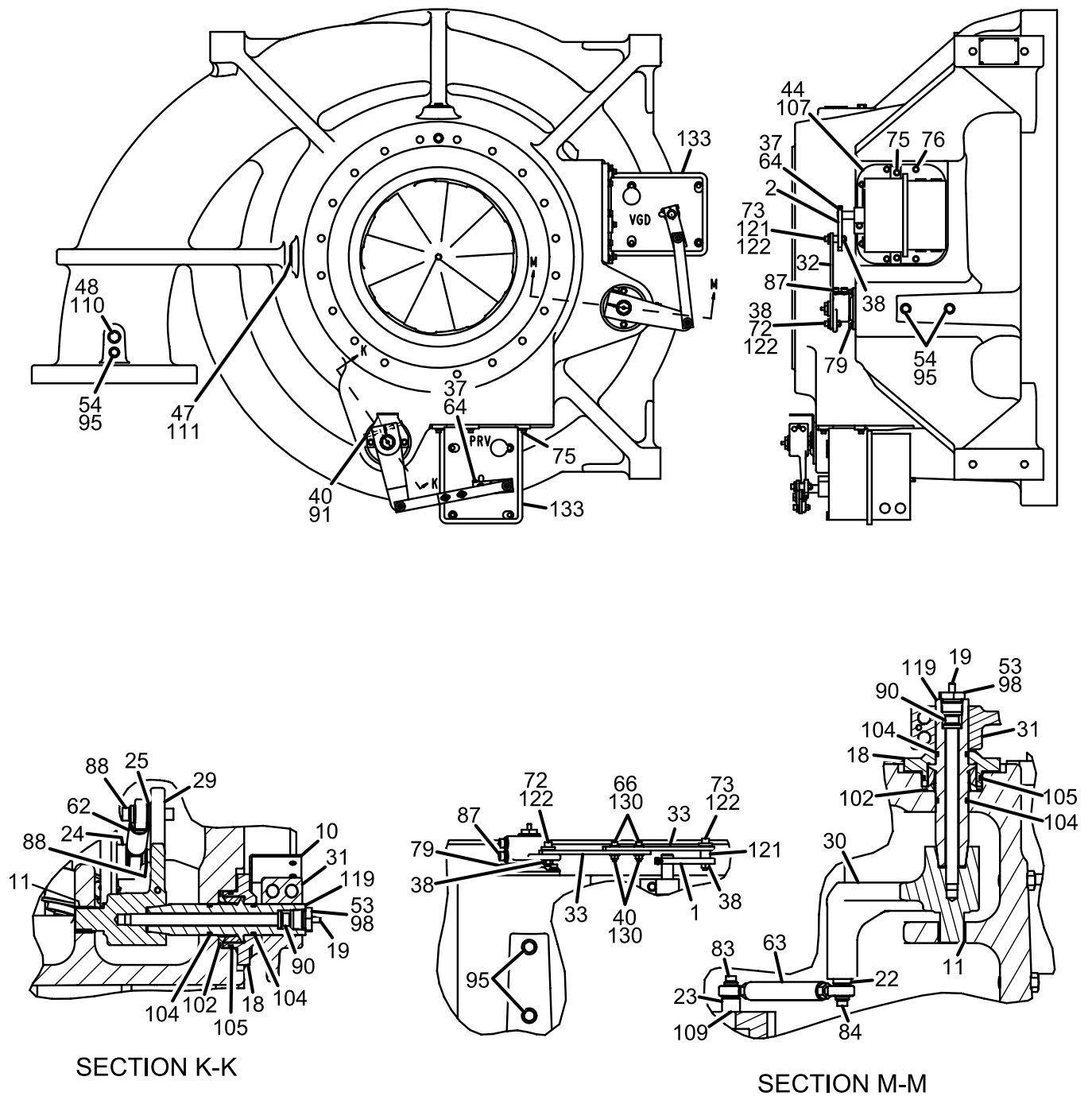


FIGURE 46 - COMPRESSOR COMPONENTS (K3/K4)

LD15172

PRE-ROTATIONAL DEVICE

TABLE 23 - PRE-ROTATIONAL DEVICE (K3/K4)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	Pre-Rotational Device Assembly (K3)	364 51772 000	1	-
-	Pre-Rotational Device Assembly (K4)	364 51772 001	1	-
1	Ring, Vane Driving	064 51771 000	1	47
2	Vane, Pre-Rotation	064 51769 000	9	47
3	Arm, Pre-Rotation Vane	064 47508 000	9	47
4	Spacer, PRV Arm	064 51652 000	9	47
5	Washer, Special Prv Tj-Cb	064 47516 000	9	47
6	Washer, Plain Lt 17/64 Id 1/2	021 11973 000	18	47
7	Stud, Ball 1/4 -28 Unf W/	029 15924 000	9	47
8	Screw, Cap 12 Pt Hd 1/2	021 11515 000	9	47
9	Nut, Self Lock 1/4 - 28unf	021 12943 000	9	47
11	Housing, PRV K3	064 51770 000	1	47
	Housing, PRV K4	064 51807 000	1	47
12	Bearing, Ball Deep Groove	029 25085 000	18	47
13	Spacer, PRV Bearing	064 51646 000	9	47
14	Spring, Overlap Type Wave	029 25086 000	18	47

NOTE: Items with an * are NOT represented.

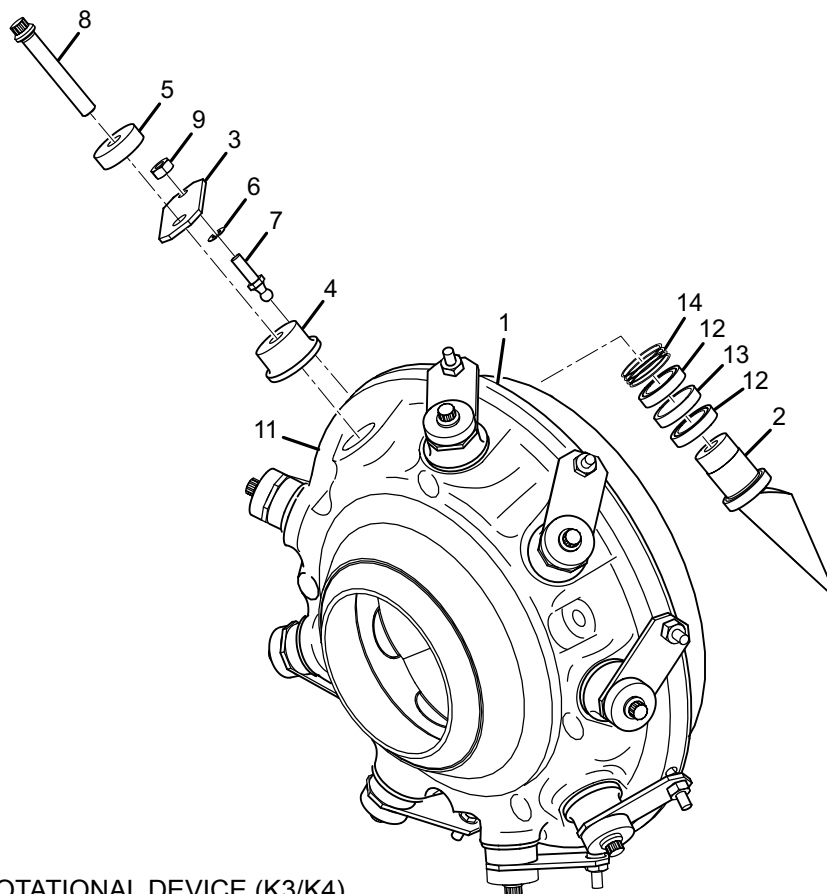


FIGURE 47 - PRE-ROTATIONAL DEVICE (K3/K4)

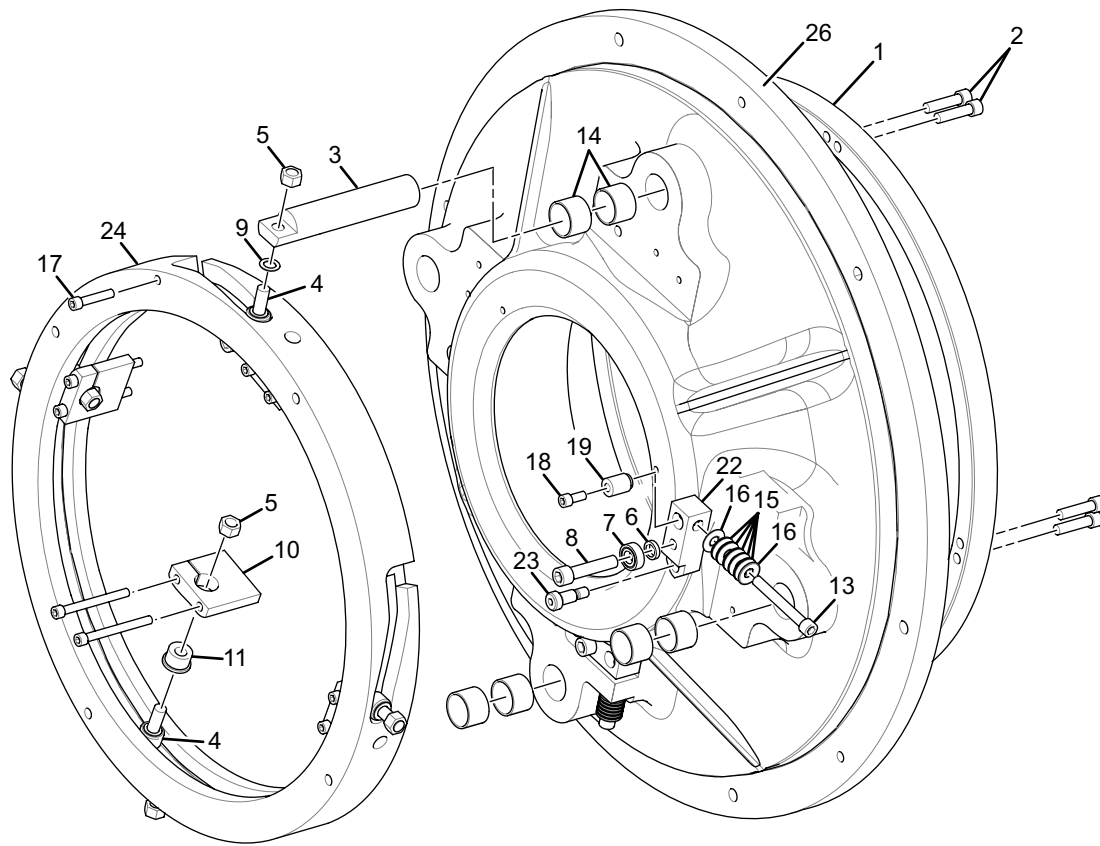
LD15093

VARIABLE GEOMETRY DIFFUSER

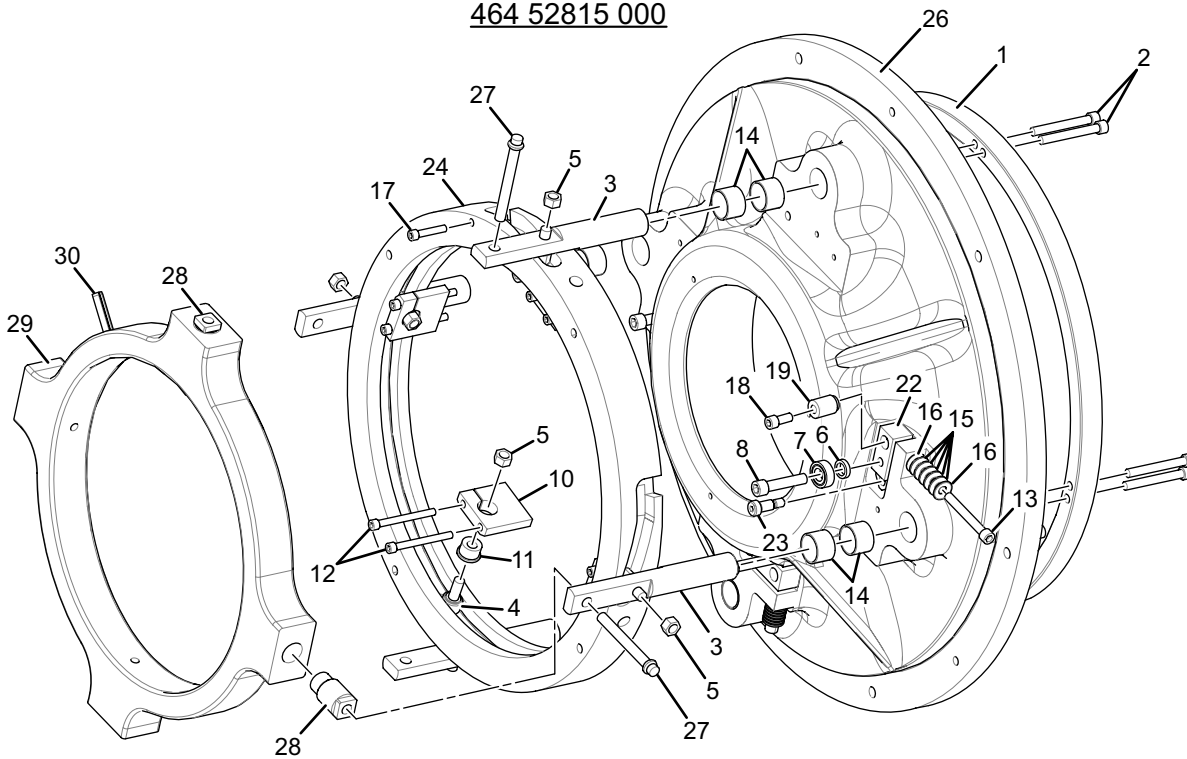
TABLE 24 - VARIABLE GEOMETRY DIFFUSER (K3/K4)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	VGD Assembly with Nozzle Baseplate (K3) (Prior to 3/2012)	464 52814 000	1	-
-	VGD Assembly with Nozzle Baseplate (K3) (After 3/2012)	364 53218 000	1	-
-	VGD Assembly with Nozzle Baseplate (K4) (Prior to 3/2012)	464 52815 000	1	-
-	VGD Assembly with Nozzle Baseplate (K4) (After 3/2012)	364 53219 000	1	-
1	Ring, VGD Diffuser (K3)	064 51775 000	1	48
	Ring, VGD Diffuser (K4)	064 51824 000	1	48
2	Screw, Cap Hex Soc Hd 5/16	021 31527 000	8	48
3	Pin, Drive (prior to 3/2012)	064 50470 000	4	48
	Pin, Drive (after to 3/2012)	064 53220 000	4	48
4	Bearing, Mcgill Cf-3/4-B	029 24103 000	8	48
5	Nut, Hex 3/8 - 24 Unf-2b	021 00474 000	8	48
6	Spacer, VGD	064 50758 000	4	48
7	Bearing, Mcgill Cyr 1 3/8	029 24104 000	4	48
8	Screw, Cap Hex Soc Hd 3/8	021 01508 000	4	48
9	Washer, Plain .384 Id X 5/8 Od	021 31155 000	4	48
10	Support, Axial Bearing	064 51714 000	4	48
11	Bushing, Eccentric	064 51713 000	4	48
12	Screw, Cap Hex Soc Hd	021 19223 000	8	48
13	Screw, Cap Hex Soc Hd 5/16	021 31326 000	2	48
14	Bushing, Garlock 16du12	029 24100 000	8	48
15	Washer, Conical Disk	021 31324 000	24	48
16	Washer, Plain Hardened 3/8 Id	021 31323 000	4	48
17	Screw, Cap Hex Soc Hd 1/4	021 02578 000	1	48
18	Screw, Set Hex Socket 1/4	021 31328 000	2	48
19	Pin, Tensioner VGD Drive Ring	064 50830 000	2	48
22	Block, Tensioner VGD Drive Ring	064 50824 000	2	48
23	Screw, Shoulder Soc Hd 5/16	021 31322 000	2	48
24	Ring, VGD Drive (K3)	064 51774 000	1	48
	Ring, VGD Drive (K4)	064 51823 000	1	48
27	Screw, Cap 12 pt Hd 3/8 (After 3/2012)	021 11941 000	4	48
28	Insert, VGD Ring (After 3/2012)	064 53106 000	4	48
29	Ring Stabilizing (K3) (After 3/2012)	064 53221 000	1	48
	Ring Stabilizing (K4) (After 3/2012)	064 53222 000	1	48
30	Pin, Slot Spg 3/8 x1-3/8 (After 3/2012)	029 08499 000	1	48

NOTE: Items with an * are NOT represented.



464 52814 000
464 52815 000



364 53218 000
364 53219 000

LD17249

FIGURE 48 - VARIABLE GEOMETRY DIFFUSER (K3/K4)

COMPRESSOR COMPONENTS

TABLE 25 - YD COMPRESSOR COMPONENTS (K7)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Screw, Set Hex Soc Cup Pt	021 00774 000	1	50
*2	Bearing, H.S. Front (K7)	064 51495 000	1	49
3	Screw, Cap 12 Pt Hd 3/8 -	021 11139 000	6	52
4	O-Ring, Neo1 00.301id .064thk M	028 12961 021	1	51
6	PRV Motor Actuator with Harness	375 49340 105	2	52
6A	Motor, Actuator without Harness	025 40490 001	1	52
6B	Harness, System Wiring	575 49340 201	1	52
7	O-Ring, Neo1 00.301id .070thk M	028 12513 000	3	49
*8	Bearing, H.S. Rear (K7)	064 51494 000	1	49
*9	Bearing, L.S. Rear (K7)	064 47858 000	1	49
*10	Bearing, L.S. Front (K7)	064 47857 000	1	49
*11	Bearing, H.S. For Thrust (K7)	029 24759 001	1	49
*13	Collar, H.S. Thrust (K7)	064 51493 000	1	49
*14	Collar, L.S. Thrust (K7)	064 51492 000	1	49
15	Collar, Impeller Clamping (K7)	064 51501 000	1	49
16	Elbow, Cinch 3/8 Tube X	023 22141 000	2	50
17	Bearing, H.S. Reverse Thrust (K7)	029 24758 001	1	49
†18	O-Ring, Neop 10.484id .139thk M	029 24758 002	1	49
20	Cover, Shaft Control	064 51671 000	2	52
21	Shaft, Contl VGD	364 51673 000	2	52
22	O-Ring, Neop 02.234id .139thk M	028 03803 000	2	52
23	Screw, Cap 12 Pt Hd 3/8-16x1-1/	021 11175 000	4	52
25	Screw, Cap Flat Soc Hd 3/8	021 13856 000	2	50
26	Spacer, .50 Lg X .33 Id X .63od	064 50611 000	1	52
27	Orifice, H.S. Oil Feed (K7)	064 49203 000	1	49
28	Screw, Cap 12 Pt Hd 1/2	021 31600 000	2	52
29	Washer, Plain 11/32 Id X 11/16	021 05166 000	4	52
30	Screw, Cap 12 Pt Hd 3/8	021 11141 000	18	49, 50, 52
31	Connr, Cinch 3/8 Tube X	023 06801 000	3	49, 50
32	Seal, Double Shaft (K7)	029 24762 000	1	51
33	Lever, Internal (K7)	064 51516 000	1	52
34	Lever, PRV External	064 51518 000	1	52
35	Arm, Motor	064 51522 000	1	52
36	Link, External PRV	064 51788 000	1	52
37	Rod, Adjustable PRV & VGD	364 51754 800	1	52
38	Plug, Hex Hd 1-1/16	023 18295 000	1	51
†39	O-Ring, Neo1 00.924id .116thk M	028 12961 006	1	51
40	Retainer, Brg S Stage Turbo	064 46886 000	2	50
41	Screw, Cap 12 Pt Hd 3/8	021 11149 000	2	50
42	Tube, L.S. Oil Drain (K7)	064 51222 000	1	50
43	Connr, Fla M X M 1/4 Od Fla	023 23367 000	1	51
44	Tube, Oil Drain Shaft Seal	064 51637 000	1	49

* Included in Bearing Kit (see APPENDIX A for additional details)

† Included in O-Ring Kit

TABLE 25 - YD COMPRESSOR COMPONENTS (K7) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
45	Washer, Plain Hardened 3/8 Id	021 31323 000	2	50
46	Ring, Bal.Pist. Seal (K7)	064 51509 000	1	49
47	Retainer, B.P. Seal Washer (K7)	064 51510 000	1	49
48	Washer, Spring Balance	064 51511 000	1	49
49	Impeller, 11.892 Eye Hard Coat (K7)	064 51499 001	1	49
50	Screw, Cap Hex Soc Hd 5/16	021 16173 000	3	52
51	Plug, Pipe 1/4 Hex Socket	023 01973 000	3	49
52	Device, VGD (K7)	364 51517 000	1	49
53	Plug, Hex Hd 7/16	023 18279 000	1	51
54	Screw, Cap Hex Soc Hd 5/16	021 01435 000	1	52
55	Fillpiece, PRV Device	064 51523 000	1	52
57	Dowel, Pin Str	029 24130 000	2	52
59	Screw, Cap 12 Pt Hd 1/2	021 11984 000	1	52
60	Plug, Hollow Hex 7/16"	023 18921 000	4	49, 50
61	Screw, Cap Hex Soc Hd 1/4	021 29501 000	3	50
62	Tube, Oil Drain H.S. Thrust	064 51638 000	1	50
63	Screw, Cap Hex Soc Hd 1/4	021 02578 000	8	49
64	Screw, Drive Ty U #4 X 1/4	021 03720 000	8	51
65	Lever, PRV External	064 51703 000	1	52
66	Screw, Cap 12 Pt Hd 5/8 -	021 11553 000	56	49
67	Screw, Cap 12 Pt Hd 1/2	021 12165 000	6	49
68	Screw, Cap Hex Soc Hd 1/4	021 08993 000	3	49
69	Link, External	064 51549 000	1	52
70	Orifice, Pipe Plug	064 51852 000	1	49
71	Screw, Cap Hex Soc Hd 1/4	021 29576 000	8	50
72	Plug, Hex Hd 3/4	023 18280 000	2	51
73	Plate, Mtg Ha50-73	064 47998 000	1	50-52
74	Screw, Cap Hex Soc Hd #10	021 31829 000	2	52
75	Header, Spray (K7)	064 47999 000	1	50
76	Plug, Hex Hd 9/16	023 18962 000	8	49, 51, 52
†77	O-Ring, Neo1 00.468id .078thk M	028 12961 003	10	49, 51, 52
78	Tube, Gear Cooling (K7)	064 51248 000	1	50
81	Nut, Hex 1/4 - 20 Unc-2b:	021 00450 000	2	52
82	Pin, Dowel Tapped 3/8 Dia	029 18459 000	3	50
83	Hhcs, 0.250-20 X 1.250 Gr 5 BI	021 01392 000	2	52
84	Screw, Shoulder Soc Hd	021 17557 000	6	49, 52
85	Plug, Hollow Hex 1-7/8"	023 18926 000	2	52
86	O-Ring, Special 3 - 924	028 13865 000	2	52
87	O-Ring, Neo1 02.112id .103thk M	028 15432 000	2	52
88	Bracket, Support Lower PRV	064 48851 000	1	52
89	Valve, Check Oil 1/8 Npte	022 04444 000	1	49
91	Plate, Handhole Cover H 65-104	064 50139 000	1	52

* Included in Bearing Kit (see APPENDIX A for additional details)

† Included in O-Ring Kit

TABLE 25 - YD COMPRESSOR COMPONENTS (K7) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
†92	O-Ring, Neo1 05.859id .139thk M	028 12204 000	1	51
93	Screw, Cap 12 Pt Hd 3/8	021 18808 000	3	50
†94	O-Ring, Neo1 01.109id .139thk M	028 12200 000	4	52
95	Plug, PRV Assembly	064 50632 000	2	52
96	Plug, Hollow Hex 5/16-24unf-2a	023 24908 000	3	49
†97	O-Ring, Neo1 00.755id .097thk M	028 12961 005	2	52
98	Screw, Cap 12 Pt Hd 3/8	021 11917 000	16	50
†99	O-Ring, Hnbr 06.737id .103thk M	028 15446 000	1	49
*103	Bearing, L.S. Thrust (K7)	029 24757 000	1	49
104	Arm, Motor	064 51548 000	1	52
105	Screw, Cap 12 Pt Hd 3/8	021 11916 000	6	49
106	Screw, Cap 12 Pt Hd 3/8	021 31767 000	2	52
108	Fillpiece, VGD Device	064 51551 000	2	52
109	Screw, Cap 12 Pt Hd 3/8	021 18788 000	4	49
†110	O-Ring, Hnbr 44.050id .275thk M	028 15443 000	1	49
111	Link, External PRV	064 51789 000	1	52
112	Probe, Proximity 2 Piece Kit	364 51806 000	1	51
114	Valve, Stop Ang Vertical	022 09578 000	1	51
†115	O-Ring, Neo1 08.234id .139thk M	028 15078 000	1	52
116	Nut, Hex 5/16 - 18unc-2b:	021 02523 000	5	52
117	Rod, Adjustable PRV & VGD	364 51753 860	1	52
118	Ring, Eye Seal (K7)	064 52028 000	1	49
119	Retainer, Eye Seal (K7)	064 51507 000	1	49
120	Washer, Spring Eye (K7)	064 51508 000	1	49
†121	O-Ring, Hnbr 33.510id .139thk S	028 15445 000	1	49
†122	O-Ring, Neop 05.609id .139thk M	028 12258 000	1	49
†123	O-Ring, Neo1 00.351id .072thk M	028 12961 001	3	49, 51, 52
†124	O-Ring, Hnbr 40.690id .139thk S	028 15444 000	1	49
125	Screw, Cap Hex Soc Hd 1/4	021 17765 000	8	49
126	Spacer, Flanged, PRV & VGD	064 50612 000	2	52
127	Screw, Cap 12 Pt Hd 1/2	021 11926 000	4	52
128	Lever, Internal VGD	064 51216 000	1	52
†130	O-Ring, Neo1 00.644id .087thk M	028 12961 004	2	51
131	Screw, Cap 12 Pt Hd 3/8	021 11920 000	14	49, 51
135	Bushing, Garlock 16du12	029 24100 000	2	52
136	Lockwasher, Hel Spg #10 Reg:	021 05265 000	2	52
137	Nut, Hex Mach Scr #10 - 32	021 08670 000	2	52
139	Fillpiece, PRV Device	064 47727 000	1	52
140	Screw, Cap 12 Pt Hd 1/2	021 11525 000	1	52
†141	O-Ring, Hnbr 00.424id .103thk M	028 15428 000	1	51
142	Clamp, Tube 1/8 Od	023 06163 000	1	51
143	Screw, Cap Hex Soc Hd #8	021 19153 000	1	51

* Included in Bearing Kit (see APPENDIX A for additional details)

† Included in O-Ring Kit

TABLE 25 - YD COMPRESSOR COMPONENTS (K7) (CONT'D)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
144	Screw, Cap Hex Soc Hd 5/16	021 01447 000	1	52
145	Screw, Cap Hex Soc Hd 5/16	021 12637 000	1	52
146	Nut, Flare Hydraulic 1/4 Od	023 09670 000	1	51
147	Sleeve, Flare Hydraulic 1/4 Od	023 10000 000	1	51
148	Spacer, .75lg X .33 Id X .63 Od	064 51538 000	1	52
149	Spacer, Flanged PRV & VGD	064 51854 000	2	52
150	O-Ring, Hnbr 00.239id .064thk M	028 15846 000	4	49, 51
193	Device, PRV (K7)	364 51515 000	1	49
300A	Support, Rotor with Bearing Housing (K7)	364 51498 000	1	*
300B	Scroll, Rotor (K7)	064 52419 000	1	*
300C	Plate, Diffuser (K7)	064 51504 000	1	*
301	Plate, Nozzle Base without VGD(K7)	064 51505 000	1	*
-	Bearing Kit, Compressor (K7)	464 51830 000	-	*
-	O-Ring Kit, Compressor (K7)	464 51832 000	-	*
-	Tool Kit, Compressor (K7)	364K51665 001	-	*

* Included in Bearing Kit (see APPENDIX A for additional details)

† Included in O-Ring Kit

LD15173

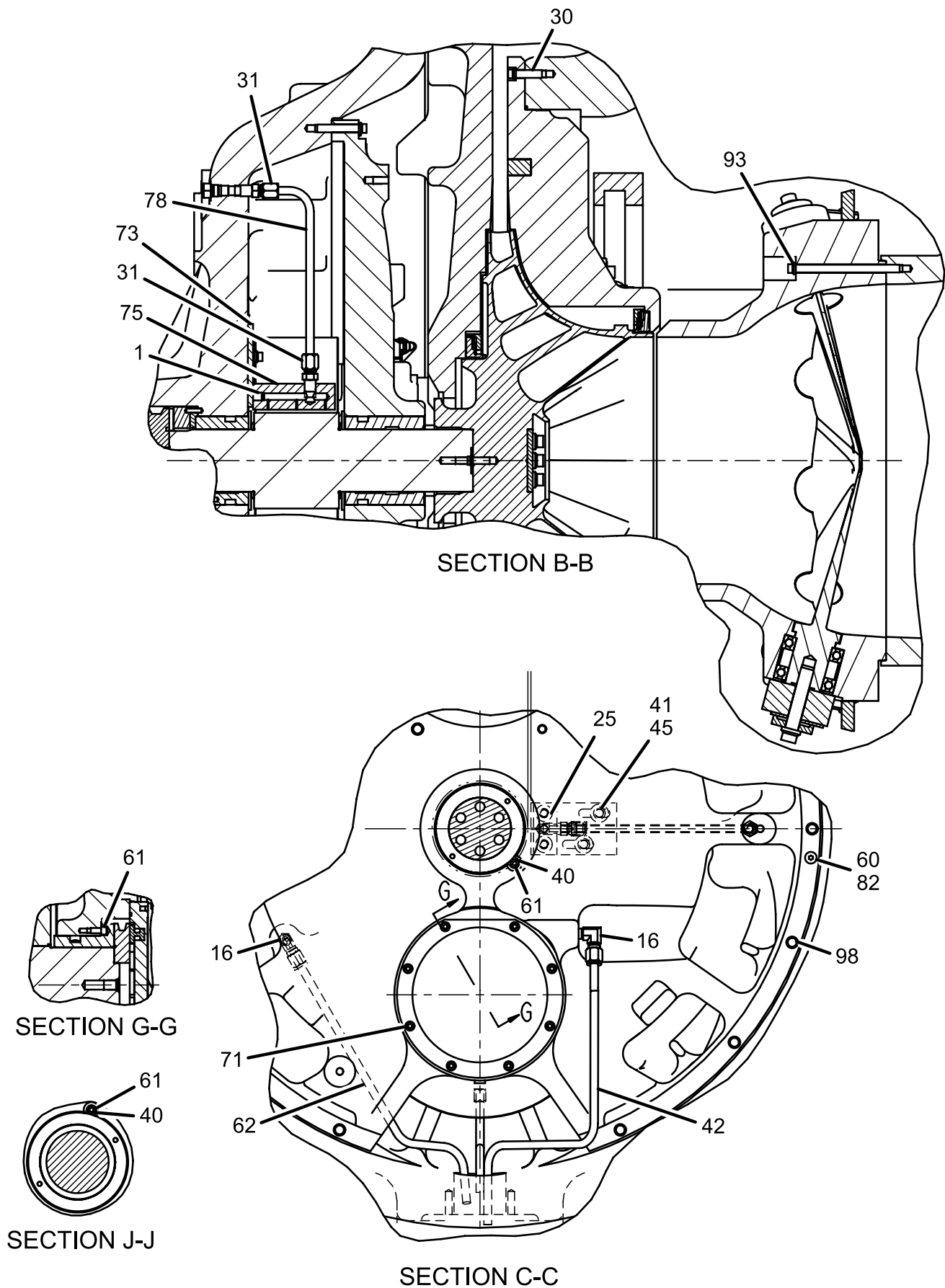


FIGURE 50 - COMPRESSOR COMPONENTS (K7)

LD15174

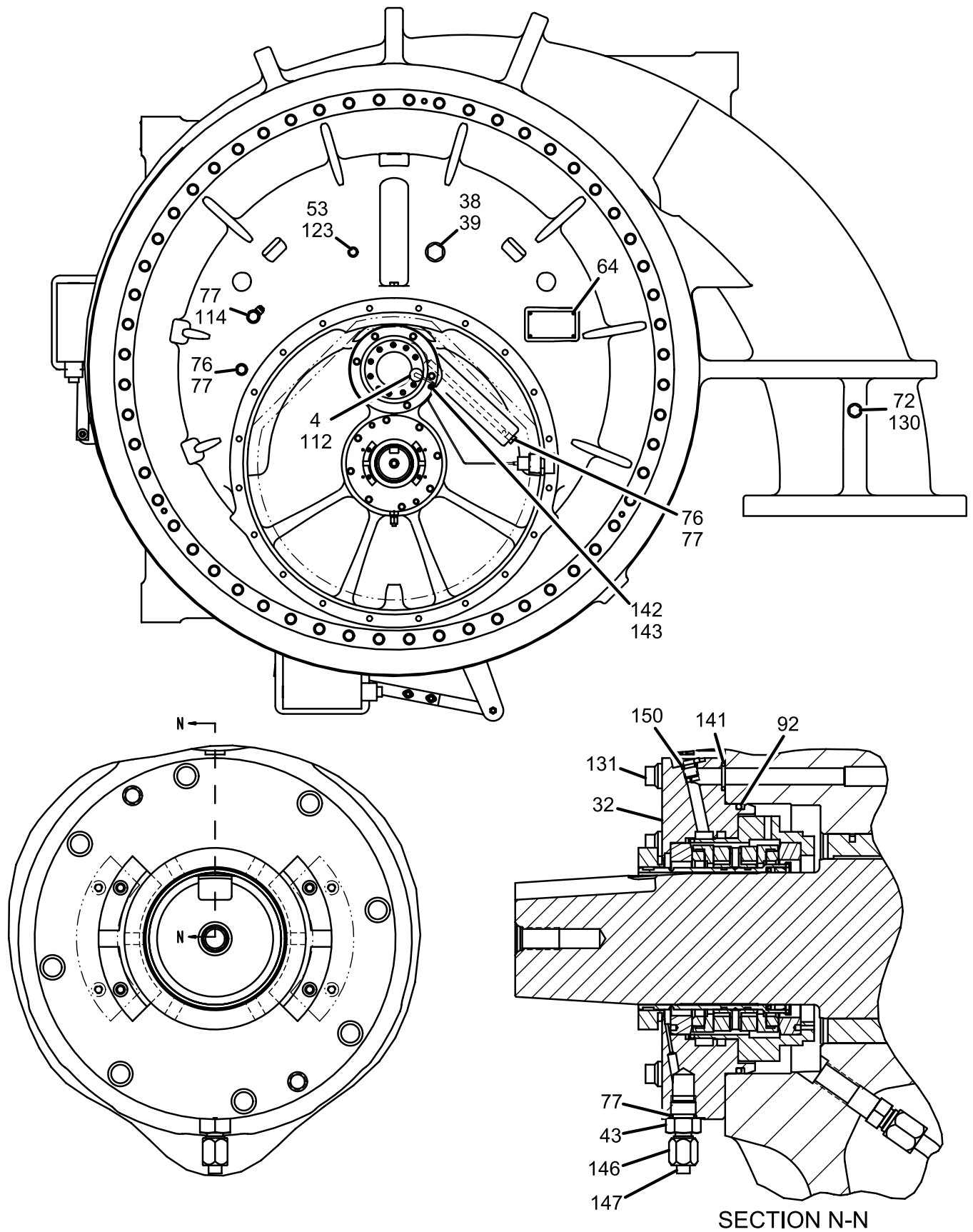


FIGURE 51 - COMPRESSOR COMPONENTS (K7)

LD15175

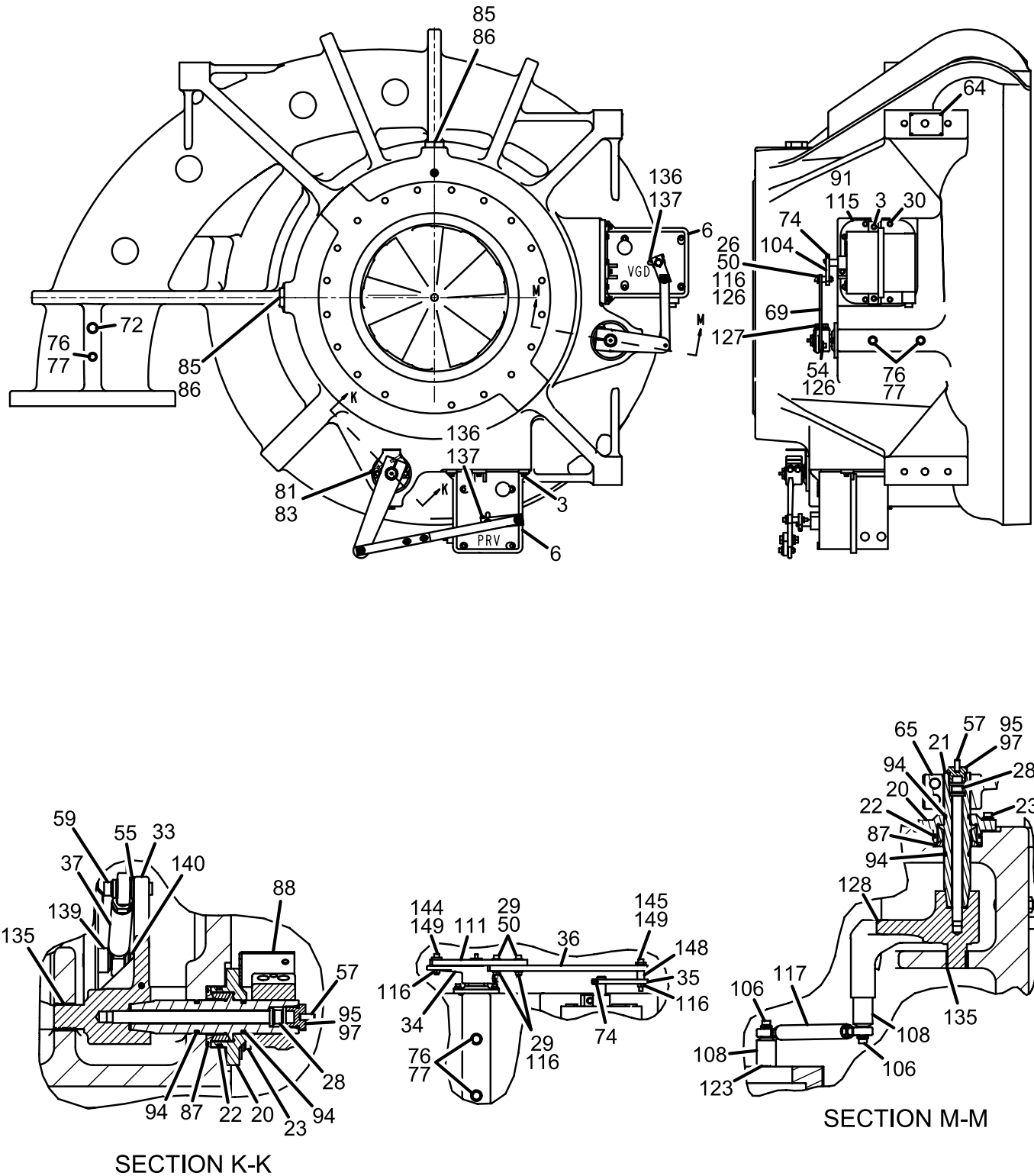


FIGURE 52 - COMPRESSOR COMPONENTS (K7)

LD15176

PRE-ROTATIONAL DEVICE

TABLE 26 - PRE-ROTATIONAL DEVICE (K7)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	Pre-Rotational Device Assembly (K7)	364 51515 000	1	-
1	Ring, Vane Driving	064 51514 000	1	53
2	Vane, Pre-Rotation	064 51503 000	9	53
3	Arm, Pre-Rotation Vane	064 51513 000	9	53
4	Spacer, Prv Arm	064 51512 000	9	53
5	Washer, Special Prv Tj-Cb	064 47318 000	9	53
6	Washer, Plain Lt 17/64 Id 1/2	021 11973 000	18	53
7	Stud, Ball 1/4 -28 Unf W/	029 15924 000	9	53
8	Screw, Cap 12 Pt Hd 1/2	021 17265 000	9	53
9	Nut, Self Lock 1/4 - 28unf	021 12943 000	9	53
11	Housing, PRV K3	064 51502 000	1	53
12	Bearing, Ball Deep Groove	029 25081 000	18	53
13	Spacer, PRV Bearing	064 51783 000	9	53
14	Spring, Overlap Type Wave	029 25082 000	18	53

NOTE: Items with an * are NOT represented.

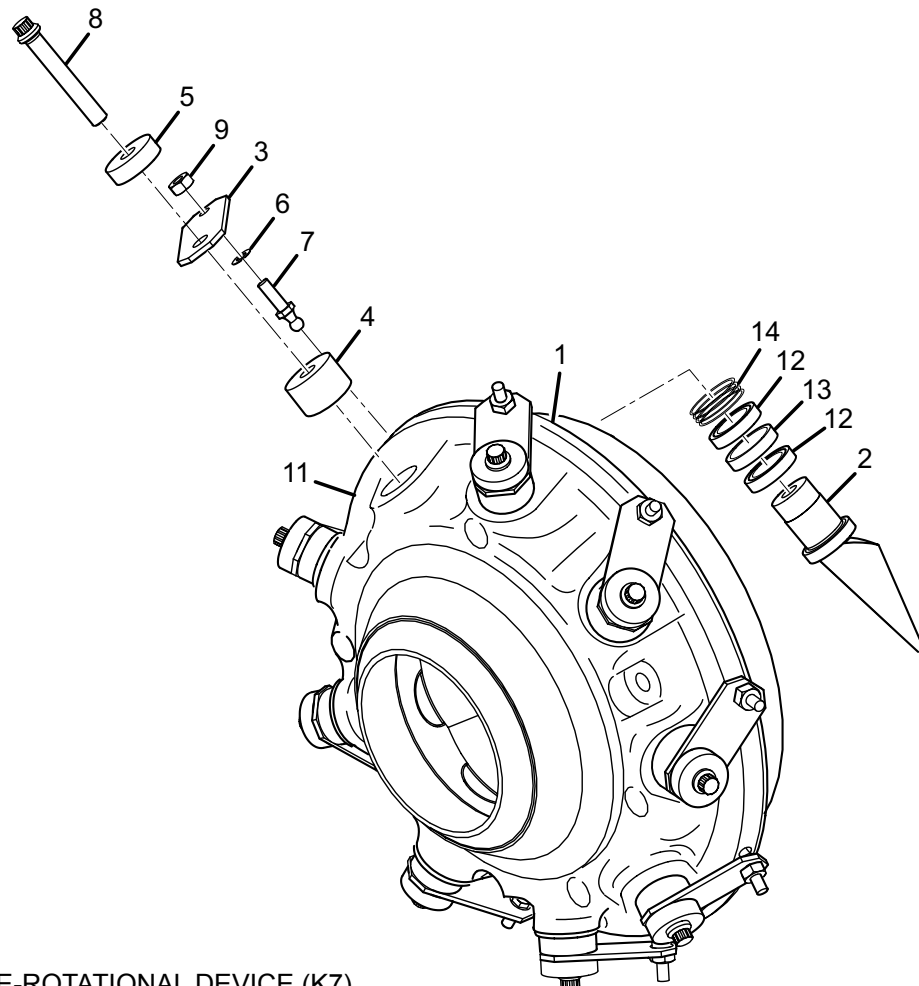


FIGURE 53 - PRE-ROTATIONAL DEVICE (K7)

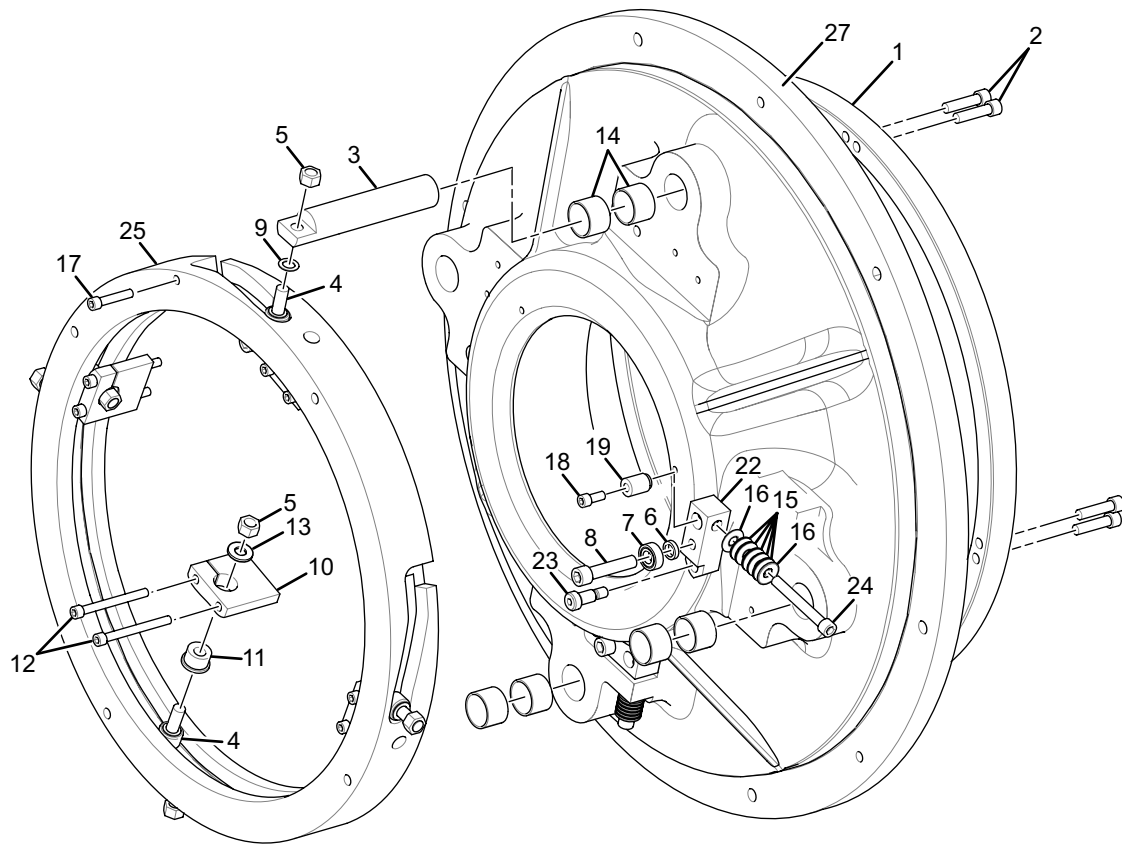
LD15093a

VARIABLE GEOMETRY DIFFUSER

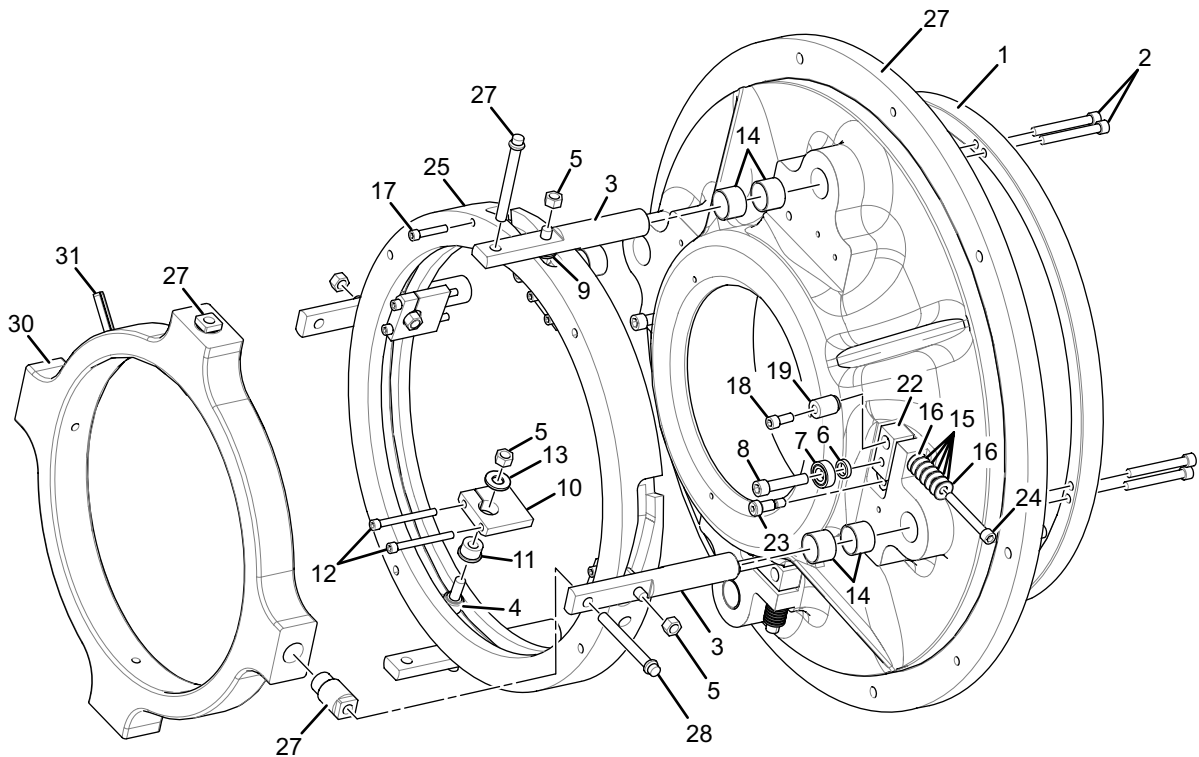
TABLE 27 - VARIABLE GEOMETRY DIFFUSER (K7)

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
-	VGD Assembly with Nozzle Baseplate (K7) (Prior to 3/2012)	364 51517 000	1	-
-	VGD Assembly with Nozzle Baseplate (K7) (After 3/2012)	364 53107 000	1	-
1	Ring, VGD Diffuser (K7)	064 51535 000	1	54
2	Screw, Cap Hex Soc Hd 5/16	021 31527 000	8	54
3	Pin, Drive (Prior to 3/2012)	064 51533 000	4	54
	Pin, Drive (After 3/2012)	064 53105 000	4	54
4	Bearing, Mcgill Cf-3/4-B	029 24890 000	8	54
5	Nut, Hex 7/16 - 20 Unf-2b	021 31755 000	8	54
6	Spacer, VGD	064 50758 000	4	54
7	Bearing, Mcgill Cyr 1 3/8	029 24104 000	4	54
8	Screw, Cap Hex Soc Hd 3/8	021 01508 000	4	54
9	Washer, Plain .453 Id X .750 Od	021 31756 000	4	54
10	Support, Axial Bearing	064 51534 000	4	54
11	Bearing, Mcgill Cfe-1-B	029 24891 000	4	54
12	Screw, Cap Hex Soc Hd	021 31754 000	8	54
13	Washer, Plain	021 14111 000	2	54
14	Bushing, Garlock 16du12	029 24100 000	8	54
15	Washer, Conical Disk	021 31324 000	24	54
16	Washer, Plain Hardened 3/8 Id	021 31323 000	4	54
17	Screw, Cap Hex Soc Hd 1/4	021 18994 000	1	54
18	Screw, Set Hex Socket 1/4	021 31328 000	2	54
19	Pin, Tensioner VGD Drive Ring	064 50830 000	2	54
22	Block, Tensioner VGD Drive Ring	064 50824 000	2	54
23	Screw, Shoulder Soc Hd 5/16	021 31322 000	2	54
24	Screw, Cap Hex Soc Hd	021 31762 000	2	54
25	Ring, VGD Drive (K7)	064 51536 000	1	54
27	Plate, Nozzlebase (After 3/2012)	064 51505 000	1	54
28	Screw, Cap 12 pt Hd 3/8 (After 3/2012)	021 11941 000	4	54
29	Insert, VGD Ring (After 3/2012)	064 53106 000	4	54
30	Ring Stabilizing (K7) (After 3/2012)	064 53104 000	1	54
31	Pin Slot Spg 3/8 x 1-3/8 (After 3/2012)	029 08499 000	1	54
32	Screw, Cap Hex Hd 3/8 (After 3/2012)	021 11662 000	1	*
33	Nut, Hex 3/8-24 unf-2b (After 3/2012)	021 00474 000	1	*

NOTE: Items with an * are NOT represented.



364 51517 000



364 53107 000

LD17250

FIGURE 54 - VARIABLE GEOMETRY DIFFUSER (K7)

PROXIMITY PROBE KIT (364 51806 000)

TABLE 28 - PROXIMITY PROBE KIT

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Probe, Proximity Tip	025 40496 000	1	55
2	O-Ring, Neo1 00.301id .064thk M	028 12961 021	1	55
3	Cable,Connecting	025 40496 003	1	55
4	Electronics, Module with PVC Bushing	025 40496 002	1	55
5	Connector, Din	025 37805 000	1	55
6	Cable,Connecting (to Control Panel)	025 28701 003	1	55
7	Instructions, Assembly	035 21458 000	1	*

NOTE: Items with an * are NOT represented.

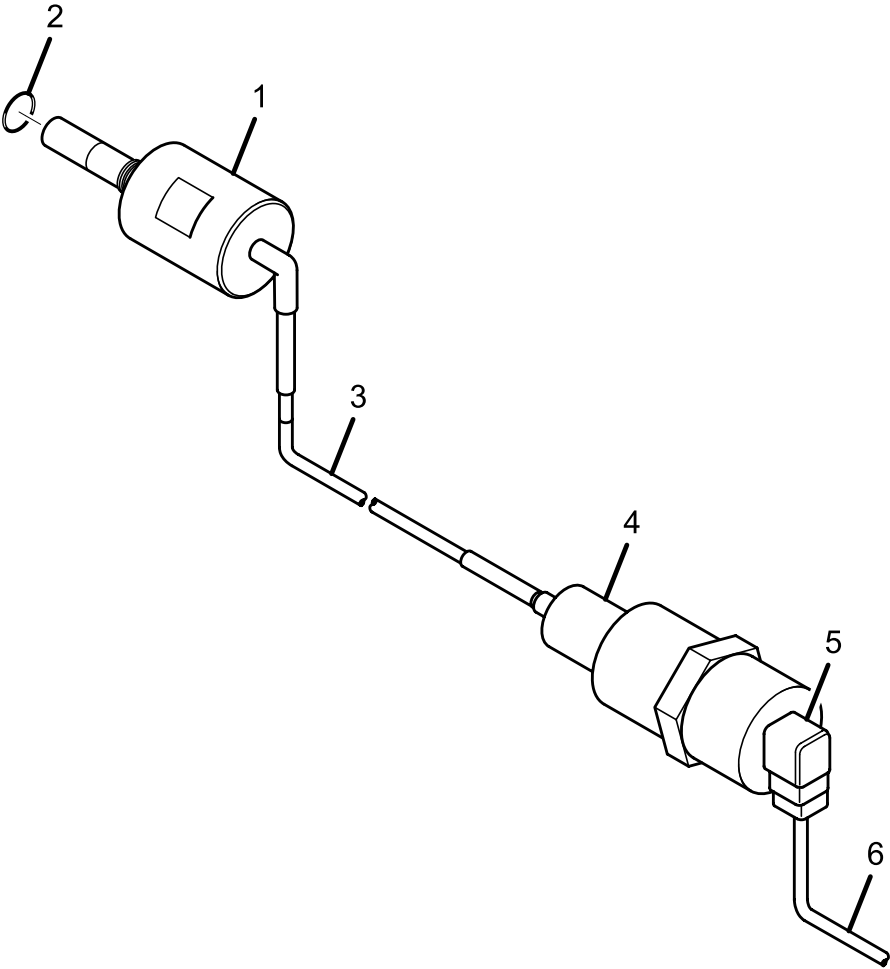


FIGURE 55 - PROXIMITY PROBE KIT

LD15184

PRV / VGD POSITION SENSOR KIT (371 05520 001)

TABLE 29 - PRV / VGD POSITION SENSOR KIT

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
1	Cover, PRV Position Sensor	071 02012 002	1	56
2	Bracket, Support Upper PRV	371 02012 209	1	56
3	Screw, Tapping Thread Forming	021 13757 000	2	56
4	POT, 2500 Ohms 2 Watt	025 32570 000	1	56
5	Bushing, Strain Relief Straight	025 09080 000	1	56
6	Cable, PRV Sensor VSD	571 02012 005	1	56
7	Coupling, Shaft, Flexible	029 24196 000	1	56
8	Screw, Cap Hex Soc Hd #10	021 18674 000	2	56
9	Lockwasher, Hel Spg #10	032 08292 000	2	56
10	Strap, Cable T&B L4-18-9-M	025 18167 000	1	56
11	Cap, PRV Sensor	071 02012 006	1	56
12	Shaft, PRV Position Sensor	071 02012 007	1	56
13	Screw, Washer Assembly	021 18487 000	2	56

NOTE: Items with an * are NOT represented.

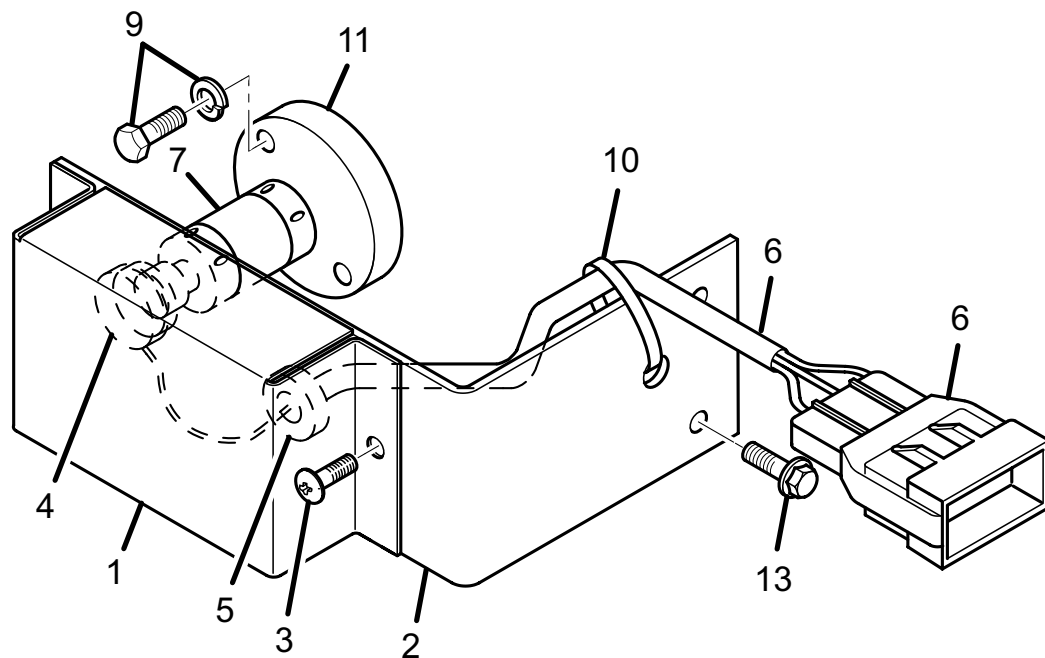


FIGURE 56 - PRV / VGD POSITION SENSOR KIT

LD14879

SYSTEM WIRING

TABLE 30 - YD SYSTEM WIRING

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
3	Sensor, Temperature 3000 Ohms	025 29964 000	5	57
10	Contact, Receptacle, 070 Series	025 28952 000	34	57
11	Collar, Rubber, Black, 070	025 28950 000	34	57
12	Connector, Plug Hsg, 3 Pos (RT1, RT4, RT5, RT6, & RT9)	025 28954 000	8	57
13	Connector, Plug Hsg, 2 Pos (CP, EP, LOP, HOP, PRV, & VGD)	025 28951 000	5	*
19	Flow, Sensor Connector	025 41574 000	2	57
29	Well, Thermo	026 32328 000	4	57
50	O-Ring, Neo1 00.644id .087thk M	028 12961 004	4	57
54	Valve, Ball 3/4-16unf-2a	022 11715 000	2	57
55	Transducer, Stall	025 40088 000	2	57
56	O-Ring, Neo1 00.414id .072thk M	028 12961 002	2	57
82	Connector, Multi Control	025 37887 000	1	57
83	Sensor, Flow 1/4" Npt Conn	025 38145 000	2	57
	Sensor, Flow 1/2" Npt Conn	025 41573 000	2	57
85	Actuator, Electric	025 38178 000	2	57
90	Sensor, Temperature 50,000 Ohms Din	025 39993 000	2	57
92	Complete, Sensor Level Polyolester Assembly	025 43955 008	1	57
92A	Transmitter, with Conduit Box and Connector	325 42383 002	1	57
92B	Connector, for Transmitter at Conduit Box	025 40232 000	1	57
93	Connector, Din 43650	025 37805 000	10	57
94	Gasket, Seal 1 Od X 7/8 Id X	028 04836 000	2	57
116	Sensor, Level R-134a Assembly (K1-K2, and K3 E Shell)	025 43950 008	1	57
116A	Transmitter, with Conduit Box and Connector	325 42383 001	1	57
116B	Connector, for Transmitter at Conduit Box	025 40232 000	1	57
116	Sensor, Level R-134a Assembly (K3 F Shell, and K4-K7)	025 43950 009	1	57
116A	Transmitter, with Conduit Box and Connector	325 42383 002	1	57
116B	Connector, for Transmitter at Conduit Box	025 40232 000	1	57
123	Actuator, Electric	025 38180 000	1	57
130	Connector, Iso 4400/Din	025 37877 000	1	57

NOTE: Items with an * are NOT represented.

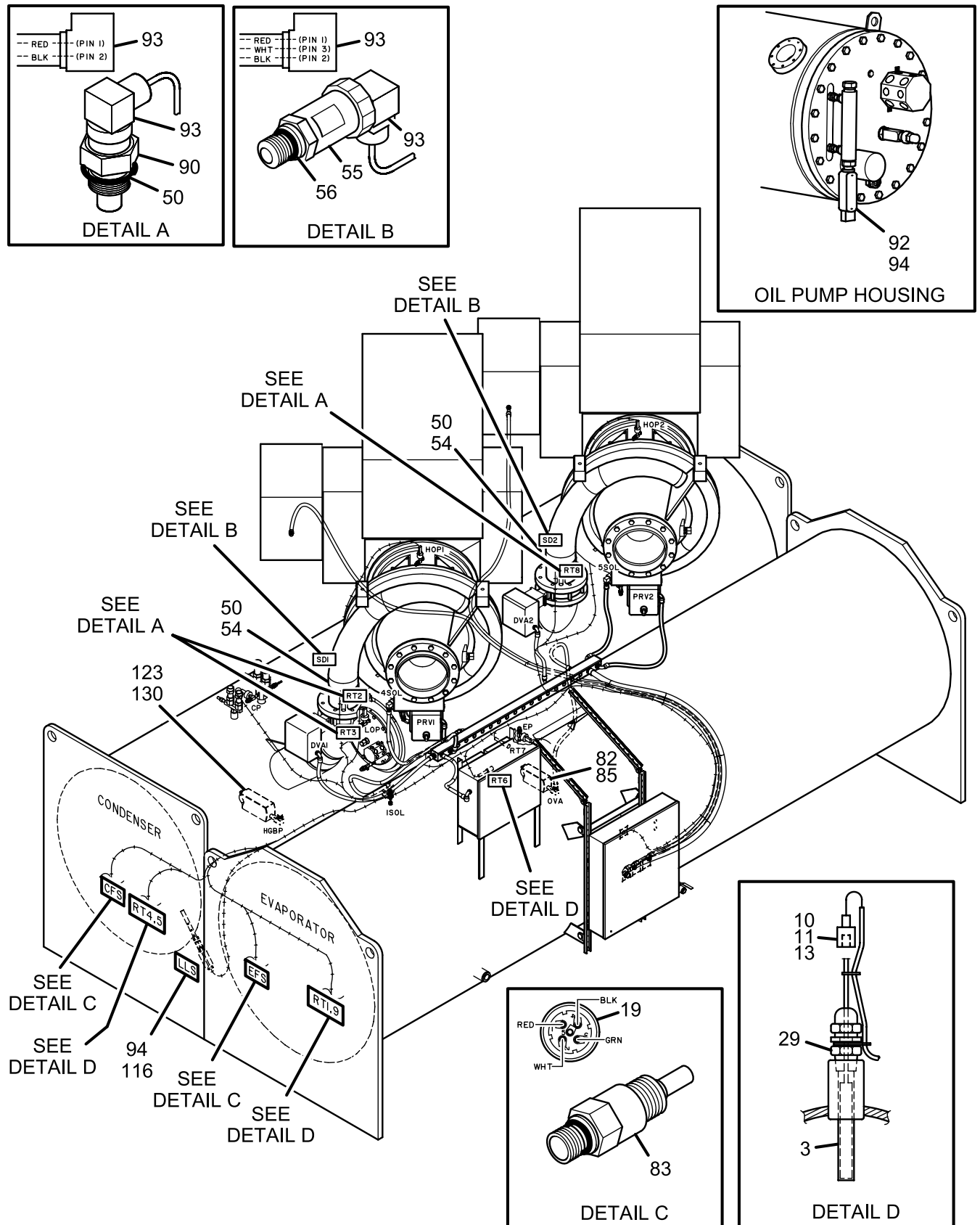


FIGURE 57 - YD SYSTEM WIRING

LD15187

VARIABLE SPEED OIL PUMP PANEL

200/208V 60HZ, 220/230/240V 60HZ, 380/416V 60HZ, 440/460/480V 60HZ, 380/400/415 50HZ

TABLE 31 - YD VARIABLE SPEED OIL PUMP PANEL

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
3	Contact, W/Suppressor 3 Pole	024 25522 000	1	58
6	Heatsink, 2 Hp Vsop Drive	071 02766 301	2	58
7	Block, Terminal	025 33268 000	3	58
8	Fuse, Cartridge Type 20 Amp	025 35908 000	1	58
16	Sealant, Silicon Rubber	013 02469 000	1	58
19	Fuseholder, 1 Pole 30 Amp 600v	025 37862 000	1	58
20	Fuseholder, 2 Pole 30 Amp 600v	025 37864 000	1	58
21	Fuseholder, 3 Pole 30 Amp 600v	025 37863 000	3	58
22	Switch, Disconnect	024 34015 000	1	58
23	Kit, Door Mtg. Disconnect	024 34016 000	1	58
25	O-Ring, Neo1 00.301id .064thk M	028 12961 021	2	58
26	Switch, High Pressure Cutout	025 37890 200	2	58
27	Adapter, Bulkhead Conversion	023 20859 000	2	58
101	Oil Pump Drive 2hp Vs 230V (200/208V 60Hz, 220/230/240V 60Hz)	024 30468 001	2	58
	Oil Pump Drive 2hp Vs 460V (380/400/415V 50Hz, 440/460/480V 60Hz, 380/416V 60Hz)	024 30468 002	2	58
102	Transformer Kit (200/208V 60Hz)	375 48198 001	1	58
	Transformer Kit (220/230/240V 60Hz)	375 48198 002	1	58
	Transformer Kit (440/460/480V 60Hz)	375 48198 003	1	58
	Transformer Kit (575/600V 60Hz)	375 48198 004	1	58
107	Inductor, 230V-VSOP Drive	025 38123 000	1	58
	Inductor, 460V-VSOP Drive	025 38124 000	1	58
108	Fuse, Cartridge Type 15 Amp (200/208/220/230/240V 60Hz)	025 35907 000	2	58
	Fuse, Cartridge Type 5 Amp (440/460/480V 60Hz)	025 35901 000	2	58
	Fuse, Cartridge Type 6 Amp (380/400/415V 50Hz, 380/416V 60Hz)	025 35902 000	2	58
109	Fuse, Cartridge Type 15 Amp (200/208V 60Hz)	025 35907 000	3	58
	Fuse, Cartridge Type 20 Amp (220/230/240 60Hz)	025 35908 000	3	58
	Fuse, Cartridge Type 10 Amp (380/400/415/V 50Hz, 380/416/440/460/480V 60Hz)	025 35905 000	3	58
110	Fuse, Cartridge Type 12 Amp (200/208/220/230/240V 60Hz)	025 35906 000	6	58
	Fuse, Cartridge Type 7 Amp (380/400/415/V 50Hz, 380/416/440/460/480V 60Hz)	025 35903 000	6	58

NOTE: Items with an * are NOT represented.

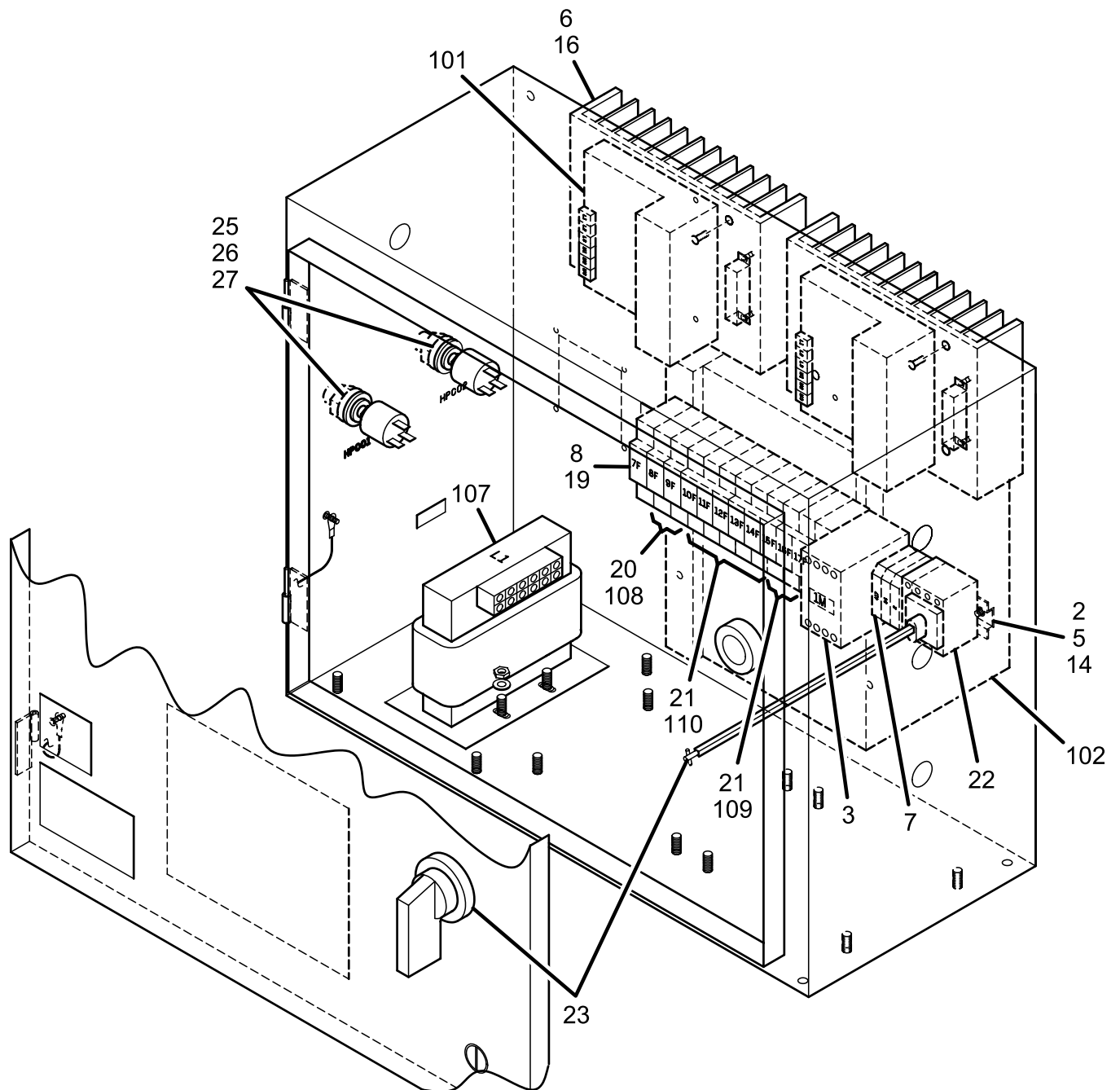


FIGURE 58 - YD VARIABLE SPEED OIL PUMP PANEL

LD15089

VARIABLE SPEED OIL PUMP PANEL

346V 50HZ, 575/600V 60HZ

TABLE 32 - YD VARIABLE SPEED OIL PUMP PANEL

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
3	Contact, W/Suppressor 3 Pole	024 25522 000	1	59
6	Heatsink, 2 Hp VSOP Drive	071 02766 301	2	59
7	Block, Terminal	025 33268 000	3	59
8	Fuse, Cartridge Type 20 Amp	025 35908 000	1	59
16	Sealant, Silicon Rubber	013 02469 000	1	59
19	Fuseholder, 1 Pole 30 Amp 600v	025 37862 000	1	59
20	Fuseholder, 2 Pole 30 Amp 600v	025 37864 000	1	59
21	Fuseholder, 3 Pole 30 Amp 600v	025 37863 000	3	59
22	Switch, Disconnect	024 34015 000	1	59
23	Kit, Door Mtg. Disconnect	024 34016 000	1	59
25	O-Ring, Neo1 00.301id .064thk M	028 12961 021	2	59
26	Switch, High Pressure Cutout	025 37890 200	2	59
27	Adapter, Bulkhead Conversion	023 20859 000	2	59
101	Oil Pump Drive, 2hp Vs 230v (346V 50Hz)	024 30468 001	2	59
	Oil Pump Drive, 2hp Vs 460v (575/600V 60Hz)	024 30468 002	2	59
102	Transformer Kit (346V 50Hz)	375 48198 005	1	59
	Transformer Kit (575/600V 60Hz)	375 48198 004	1	59
106	Transformer (346V 50Hz)	025 37886 000	3	59
	Transformer (575/600V 60Hz)	025 37885 000	3	59
108	Fuse, Cartridge Type 7 Amp (346V 50Hz)	025 35903 000	2	59
	Fuse, Cartridge Type 4 Amp (575/600V 60Hz)	025 35911 000	2	59
109	Fuse, Cartridge Type 20 Amp (346V 50Hz)	025 35908 000	3	59
	Fuse, Cartridge Type 8 Amp (575/600V 60Hz)	025 30962 000	3	59
110	Fuse, Cartridge Type 7 Amp (346/575/600V 60Hz)	025 35903 000	6	59

NOTE: Items with an * are NOT represented.

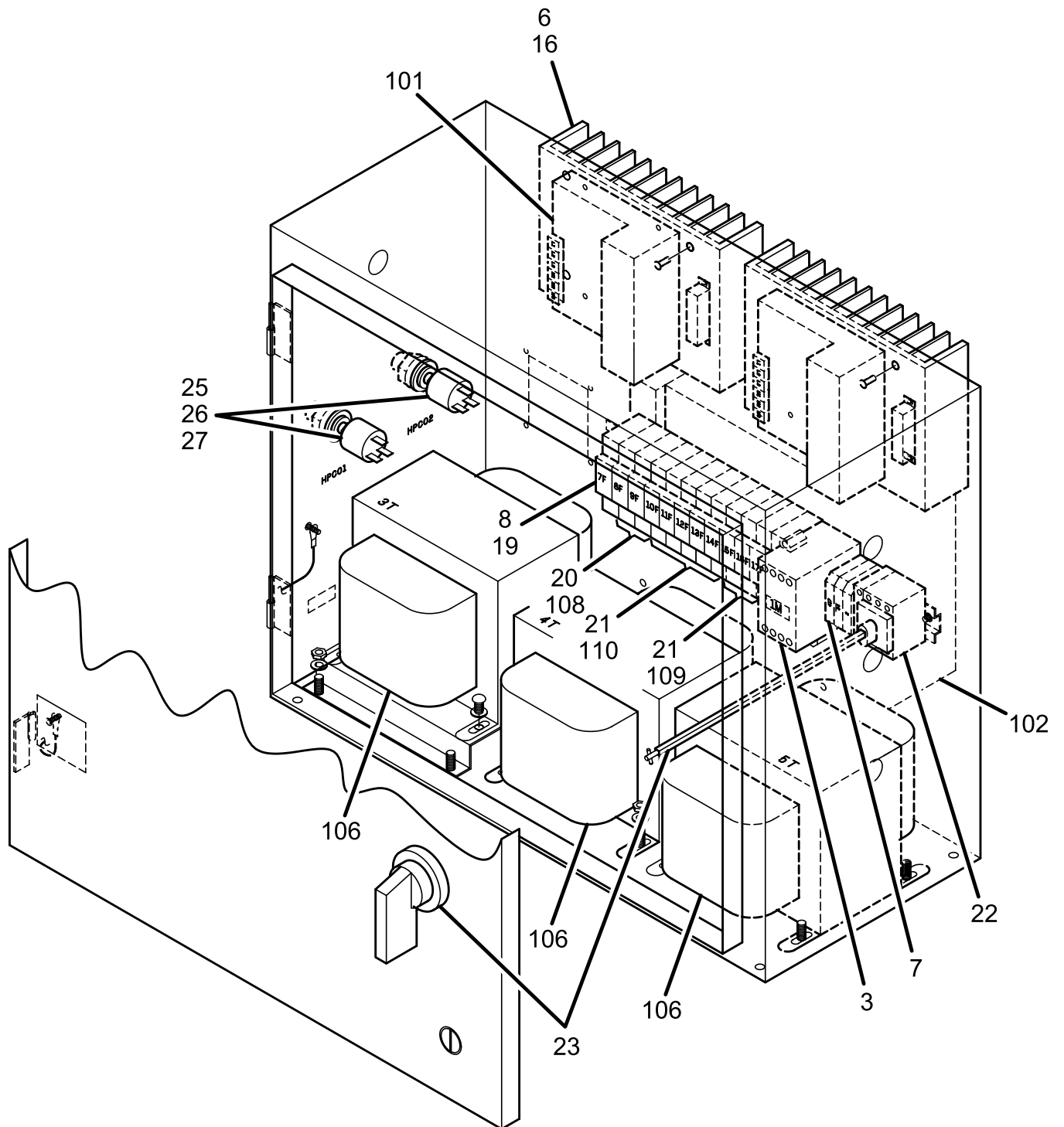


FIGURE 59 - YD VARIABLE SPEED OIL PUMP PANEL

LD15090

RELIEF VALVES EVAPORATOR

TABLE 33 - YD EVAPORATOR RELIEF VALVES

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
MOD A				
100	Valve, Relief 1-5/8-12unf-2a (J1, J2)	022 10076 000	2	60
100A	O-ring, Neo 01.475id .118thk (J1, J2)	028 12961 017	2	60
101	Valve, Relief 1-1/4- x 2 Npti (J3-J5)	022 07893 035	1	60
102	Flange, Relief Valve Companion (J3-J5)	023 13837 003	1	60
MOD B				
100	Valve, Relief 1-5/8-12unf-2a (J1, J2)	022 10076 000	2	60
100A	O-ring, Neo 01.475id .118thk (J1, J2)	028 12961 017	2	60
101	Valve, Relief 1-1/4- x 2 Npti (J3-J5, J7)	022 07893 035	1	60
102	Flange, Relief Valve Companion (J3-J5, J7)	023 13837 003	1	60
MOD C				
100	Valve, Relief 1-5/8-12unf-2a (B Shell)	022 10076 000	2	60
100A	O-ring, Neo 01.475id .118thk (B Shell)	028 12961 017	2	60
101	Valve, Relief 1-1/4- x 2 Npti	022 07893 035	1	60
102	Flange, Relief Valve Companion	023 13837 003	1	60

NOTE: Items with an * are NOT represented.

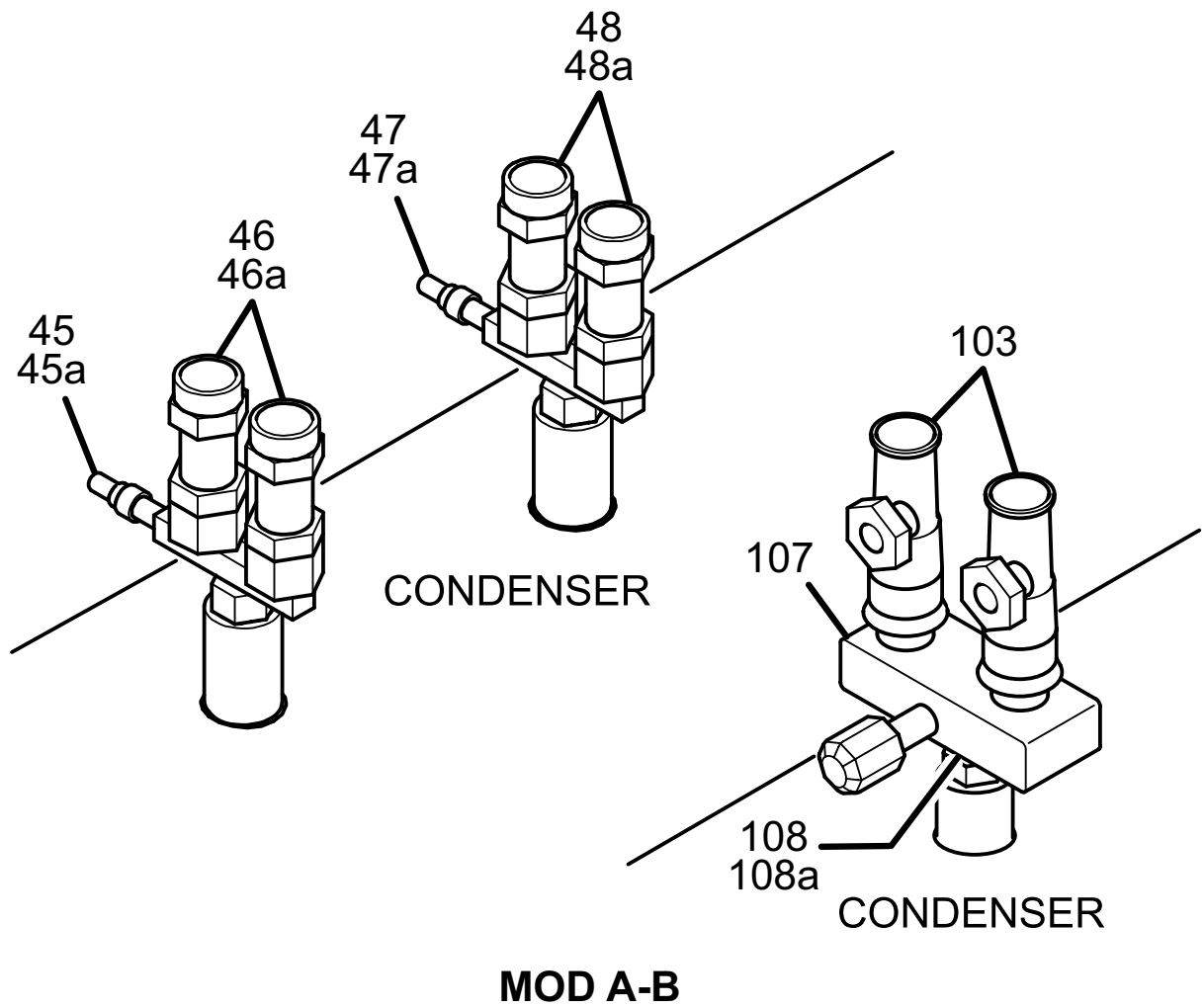


FIGURE 60 - YD EVAPORATOR RELIEF VALVES

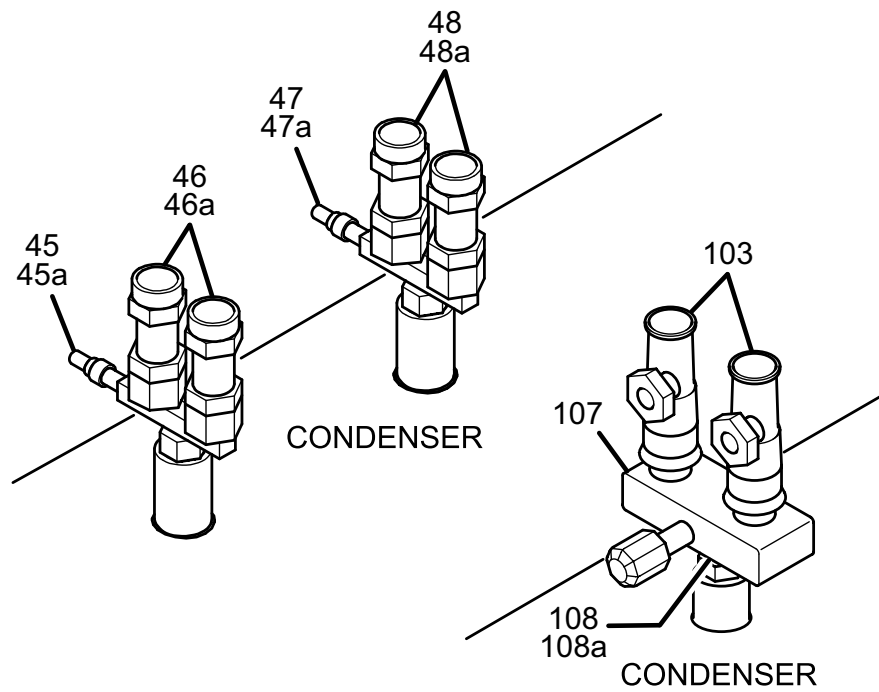
LD13049b

RELIEF VALVES CONDENSER

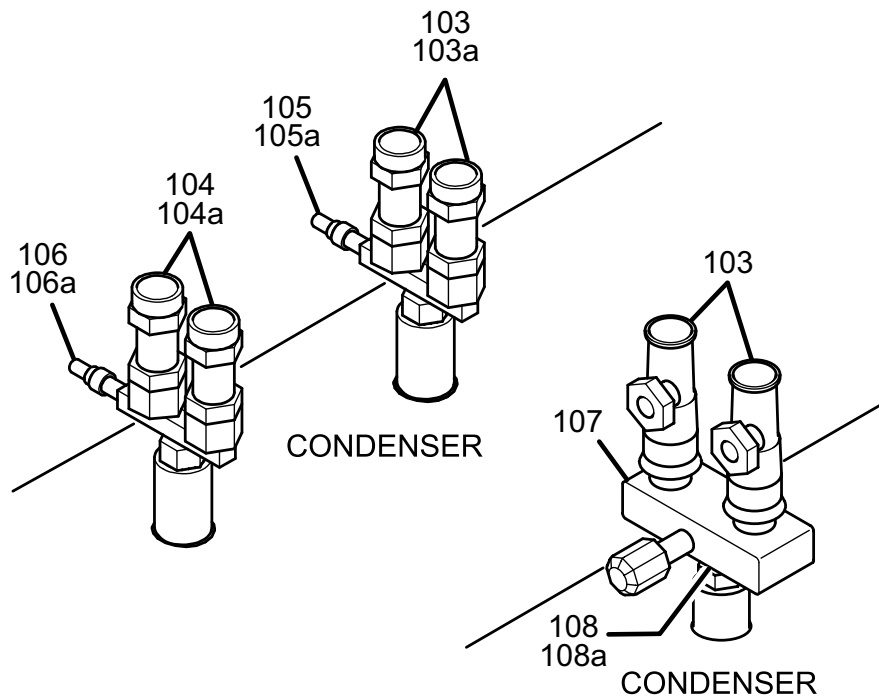
TABLE 34 - YD CONDENSER RELIEF VALVES

ITEM	DESCRIPTION	PART NUMBER	QUANTITY	FIGURE
MOD A-B				
45	Valve, Stop 3-Way 1-5/8 (J1, J2)	022 10074 000	1	61
45A	O-ring, Neo 01.475id .118thk (J1, J2)	028 12961 017	1	61
46	Valve, Relief 1-5/8-12un-2a (J1, J2)	022 10079 000	2	61
46A	O-ring, Neo 01.475id .118thk (J1, J2)	028 12961 017	2	61
47	Valve, Stop 3-Way 1-5/16 (J1, J2)	022 10073 000	1	61
47A	O-ring, Neo 01.17id .116thk (J1, J2)	028 12961 008	1	61
48	Valve, Relief 1-5/16-12un-2a (J1, J2)	022 10078 000	2	61
48A	O-ring, Neo 01.17id .116thk (J1, J2)	028 12961 008	2	61
103	Valve, Relief (J3-J5, J7)	022 07893 028	1	61
103A	O-ring, Neo 01.475id .118thk (J3-J5, J7)	028 12961 017	1	61
107	Valve, Stop Dual Manifold (J3-J5, J7)	022 07892 003	1	61
108	Adapter, Male Pipe (J3-J5, J7)	023 21894 000	1	61
108A	O-ring, Neo 01.475id .118thk (J3-J5, J7)	028 12961 017	1	61
MOD C				
103	Valve, Relief 1-5/16-12un-2a (L, M, B Shells)	022 10078 000	2	61
103A	O-ring, Neo 01.17id .116thk (L, M, B Shells)	028 12961 008	2	61
103	Valve, Relief 1-5/8-12un-2a (C, D Shells)	022 10079 000	2	61
103A	O-ring, Neo 01.475id .118thk (C, D Shells)	028 12961 017	2	61
103	Valve, Relief (E, F, K Shells)	022 07893 028	2	61
103A	O-ring, Neo 01.475id .118thk (E, F, K Shells)	028 12961 017	2	61
104	Valve, Relief 1-5/8-12un-2a (L, M, B Shells)	022 10079 000	2	61
104A	O-ring, Neo 01.475id .118thk (L, M, B Shells)	028 12961 017	2	61
105	Valve, Stop 3-Way 1-5/16 (L, M, B Shells)	022 10073 000	1	61
105A	O-ring, Neo 01.17id .116thk (L, M, B Shells)	028 12961 008	1	61
106	Valve, Stop 3-Way 1-5/8 (L, M, B Shells)	022 10074 000	1	61
106A	O-ring, Neo 01.475id .118thk (L, M, B Shells)	028 12961 017	1	61
106	Valve, Stop 3-Way 1-5/8 (C, D Shells)	022 10074 000	2	61
106A	O-ring, Neo 01.475id .118thk (C, D Shells)	028 12961 017	2	61
107	Valve, Stop Dual Manifold (E, F, K Shells)	022 07892 003	1	61
108	Adapter, Male Pipe (E, F, K Shells)	023 21894 000	1	61
108A	O-ring, Neo 01.475id .118thk (L, M, B Shells)	028 12961 017	1	61

NOTE: Items with an * are NOT represented.



MOD A-B



MOD C

FIGURE 61 - YD CONDENSER RELIEF VALVES

LD13049a

3/4" CONDENSER TUBES (MOD A)

TABLE 35 - 18' CONDENSER SHELLS WITH 3/4" TUBES

SHELL CODE	TUBE QTY.		STANDARD	OPTIONS					
	COND	SUB COOLER	.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL
			MT #260	MT #261	MT #262	MT #201	MT #203	MT #225	MT #226
XA	1826	140	007 09608	007 09626	007 09627	007 09861	007 09862	007 09633	007 09634
XB	1992								
XC	2183								
XD	2233								
YA	2220	180							
YB	2496								
YC	2777								
YD	2900								
ZA	2670	224							
ZB	2977								
ZC	3218								
ZD	3353								
AA	3158	256							
AB	3539								
AC	3757								
AD	3973								

SHELL CODE	TUBE QTY.		OPTIONS		
	COND	SUB COOLER	.025 WALL	.028 WALL	.035 WALL
			MT #230	MT #231	MT #232
XA	1826	140	007 09628	007 09629	007 09630
XB	1992				
XC	2183				
XD	2233				
YA	2220	180			
YB	2496				
YC	2777				
YD	2900				
ZA	2670	224			
ZB	2977				
ZC	3218				
ZD	3353				
AA	3158	256			
AB	3539				
AC	3757				
AD	3973				

3/4" EVAPORATOR TUBES (MOD A)

TABLE 36 - 18' EVAPORATOR SHELLS WITH 3/4" TUBES

SHELL CODE	TUBE QTY.	STANDARD	OPTIONS						
		.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL	.025 WALL	.028 WALL	.035 WALL
		MT #271	MT #272	MT # 273	MT #177	MT #179	MT #181	MT #182	MT #183
XF	1,493	007 10017	007 10018	007 10019	007 09622	007 09623	007 09609	007 09620	007 09621
XH	1,742								
YF	2,004								
YG	2,258								
YH	2,504								
ZF	2,522								
ZG	2,822								
ZH	3,126								
AF	2,888								
AG	3,176								
AH	3,548								

3/4" CONDENSER TUBES (MOD B)

TABLE 37 - 18' AND 22' CONDENSER SHELLS WITH 3/4" TUBES

SHELL CODE	TUBE QTY.		STANDARD	OPTIONS					
	COND	SUB COOLER	.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL
			MT #260	MT #261	MT # 262	MT #201	MT #203	MT #225	MT #226
BB¹	1,826	140	007 09608	007 09626	007 09627	007 09861	007 09862	007 09633	007 09634
BC¹	1,993								
BD¹	2,112								
CB²	1,799	180	007 10051	007 10052	007 10053	007 10040	007 10041	007 10042	007 10043
CC²	2,029								
CD²	2,325								
DB¹	2,220	180	007 09608	007 09626	007 09627	007 09861	007 09862	007 09633	007 09634
DC¹	2,496								
DD¹	2,777								
EB²	2,220	180	007 10051	007 10052	007 10053	007 10040	007 10041	007 10042	007 10043
EC²	2,496								
ED²	2,504								
FB¹	2,668	224	007 09608	007 09626	007 09627	007 09861	007 09862	007 09633	007 09634
FC¹	2,978								
FD¹	3,221								
GB²	2,668	224	007 10051	007 10052	007 10053	007 10040	007 10041	007 10042	007 10043
GC²	2,978								
GD²	3,221								
HB¹	3,158	256	007 09608	007 09626	007 09627	007 09861	007 09862	007 09633	007 09634
HC¹	3,539								
HD¹	3,754								
KB²	3,158	256	007 10051	007 10052	007 10053	007 10040	007 10041	007 10042	007 10043
KC²	3,539								
KD²	3,754								

NOTE:

1 = 18' Condenser Shells

2 = 22' Condenser Shells

1" CONDENSER TUBES (MOD B)

TABLE 38 - 18' AND 22' CONDENSER SHELLS WITH 1" TUBES

SHELL CODE	TUBE QTY.		STANDARD	OPTIONS		
	COND	SUB COOLER	.025 WALL	.028 WALL	.035 WALL	.028 WALL
			MT #266/260	MT #267/261	MT #268/262	MT #317/261
B2¹	858	140	C=007 10065 S=007 09608	C=007 10066 S=007 09626	C=007 10067 S=007 09627	C=007 10037 S=007 09626
B3¹	956					
B4¹	1,053					
B5¹	1,171					
C2²	710	180	C=007 10068 S=007 10051	C=007 10069 S=007 10052	C=007 10070 S=007 10053	C=007 10124 S=007 10052
C3²	955					
C4²	1,215					
D2¹	1,071	180	C=007 10065 S=007 09608	C=007 10066 S=007 09626	C=007 10067 S=007 09627	C=007 10037 S=007 09626
D3¹	1,190					
D4¹	1,321					
D5¹	1,507					
E2²	1,071	180	C=007 10068 S=007 10051	C=007 10069 S=007 10052	C=007 10070 S=007 10053	C=007 10124 S=007 10052
E3²	1,190					
E4²	1,321					
E5²	1,507					
F2¹	1,293	224	C=007 10065 S=007 09608	C=007 10066 S=007 09626	C=007 10067 S=007 09627	C=007 10037 S=007 09626
F3¹	1,438					
F4¹	1,597					
F5¹	1,774					
G2²	1,293	224	C=007 10068 S=007 10051	C=007 10069 S=007 10052	C=007 10070 S=007 10053	C=007 10124 S=007 10052
G3²	1,438					
G4²	1,597					
G5²	1,774					
H2¹	1,474	256	C=007 10065 S=007 09608	C=007 10066 S=007 09626	C=007 10067 S=007 09627	C=007 10037 S=007 09626
H3¹	1,638					
H4¹	1,819					
H5¹	2,077					
K2²	1,474	256	C=007 10068 S=007 10051	C=007 10069 S=007 10052	C=007 10070 S=007 10053	C=007 10124 S=007 10052
K3²	1,638					
K4²	1,819					
K5²	2,077					

NOTE:

1 = 18' Condenser Shells

2 = 22' Condenser Shells

3/4" EVAPORATOR TUBES (MOD B)

TABLE 39 - 18' AND 22' EVAPORATOR SHELLS WITH 3/4" TUBES

SHELL CODE	TUBE QTY.	STANDARD	OPTIONS			
		.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL
		MT #271	MT #272	MT #273	MT #177	MT #179
BB¹	1,215	007 10017	007 10018	007 10019	007 09622	007 09623
BC¹	1,484					
BD¹	1,742					
CB²	1,537	007 10048	007 10049	007 10050	007 10038	007 10039
CC²	1,699					
CD²	1,850					
DB¹	2,004	007 10017	007 10018	007 10019	007 09622	007 09623
DC¹	2,258					
DD¹	2,504					
EB²	2,004	007 10048	007 10049	007 10050	007 10038	007 10039
EC²	2,258					
ED²	2,504					
FB¹	2,522	007 10017	007 10018	007 10019	007 09622	007 09623
FC¹	2,822					
FD¹	3,126					
GB²	2,522	007 10048	007 10049	007 10050	007 10038	007 10039
GC²	2,822					
GD²	3,126					
HB¹	2,888	007 10017	007 10018	007 10019	007 09622	007 09623
HC¹	3,176					
HD¹	3,548					
KB²	2,888	007 10048	007 10049	007 10050	007 10038	007 10039
KC²	3,176					
KD²	3,548					

NOTE:

1 = 18' Evaporator Shells

2 = 22' Evaporator Shells

1" EVAPORATOR TUBES (MOD B)

TABLE 40 - 18' AND 22' EVAPORATOR SHELLS WITH 1" TUBES

SHELL CODE	TUBE QTY.	STANDARD	OPTIONS				
		.025 WALL	.028 WALL	.035 WALL	.025 WALL	.028 WALL	.035 WALL
		MT#286	MT #287	MT #288	MT #326	MT #327	MT #328
B2 ¹	655	007 10036	007 10096	007 10097	007 10224	007 10225	007 10226
B3 ¹	779						
B4 ¹	887						
C2 ²	807	007 10098	007 10099	007 10100	007 10227	007 10228	007 10229
C3 ²	954						
C4 ²	1,063						
D2 ¹	1,064	007 10036	007 10096	007 10097	007 10224	007 10225	007 10226
D3 ¹	1,178						
D4 ¹	1,298						
E2 ²	1,064	007 10098	007 10099	007 10100	007 10227	007 10228	007 10229
E3 ²	1,178						
E4 ²	1,298						
F2 ¹	1,332	007 10036	007 10096	007 10097	007 10224	007 10225	007 10226
F3 ¹	1,480						
F4 ¹	1,642						
G2 ²	1,332	007 10098	007 10099	007 10100	007 10227	007 10228	007 10229
G3 ²	1,480						
G4 ²	1,642						
H2 ¹	1,490	007 10036	007 10096	007 10097	007 10224	007 10225	007 10226
H3 ¹	1,656						
H4 ¹	1,840						
K2 ²	1,490	007 10098	007 10099	007 10100	007 10227	007 10228	007 10229
K3 ²	1,656						
K4 ²	1,840						

NOTE:

1 = 18' Evaporator Shells

2 = 22' Evaporator Shells

3/4" CONDENSER TUBES (MOD C)

TABLE 41 - 18' CONDENSER SHELLS WITH 3/4" TUBES

SHELL CODE	TUBE QTY.		STANDARD	OPTIONS					
	COND	SUB COOLER		COPPER		COPPER-NICKEL		SMOOTH BORE	
			.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL
LB	1436	144	007 09608	007 09626	007 09627	007 09861	007 09862	007 09633	007 09634
LC	1589								
LD	1704								
BB	1826								
BC	1993								
BD	2112								
BE	2218	180							
DB	2220								
DC	2496								
DD	2777								
DE	2900	224							
FB	2668								
FC	2978								
FD	3221								
FE	3353								

TABLE 42 - 22' CONDENSER SHELLS WITH 3/4" TUBES

SHELL CODE	TUBE QTY.		STANDARD	OPTIONS					
	COND	SUB COOLER		COPPER		COPPER-NICKEL		SMOOTH BORE	
			.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL
MB	1436	144	007 10051	007 10052	007 10053	007 10040	007 10041	007 10042	007 10043
MC	1589								
MD	1704								
CB	1799	180							
CC	2029								
CD	2325								
EB	2220	224							
EC	2496								
ED	2777								
EE	2900								
KB	3158	256							
KC	3539								
KD	3754								
KE	3962								

1" CONDENSER TUBES (MOD C)

TABLE 43 - 18' CONDENSER SHELLS WITH 1" TUBES

SHELL CODE	TUBE QTY.		Standard		OPTIONS			
	COND	SUB COOLER	.025 Wall		.028 Wall		.035 Wall	
			COND	Subcooler	COND	Subcooler	COND	Subcooler
L2	621	144	007 10065	007 09608	007 10066	007 09626	007 10067	007 09627
L3	745							
L4	893							
B2	858							
B3	956							
B4	1053							
B5	1171							
D2	1071	180						
D3	1190							
D4	1321							
D5	1507							
F2	1293	224						
F3	1438							
F4	1597							
F5	1774							

TABLE 44 - 22' CONDENSER SHELLS WITH 1" TUBES

SHELL CODE	TUBE QTY.		Standard		OPTIONS			
			.025 Wall		.028 Wall		.035 Wall	
	COND	SUB COOLER	COND	Subcooler	COND	Subcooler	COND	Subcooler
M2	621	144	007 10068	007 10051	007 10069	007 10052	007 10070	007 10053
M3	745							
M4	893							
C2	710	180						
C3	955							
C4	1215							
E2	1071	224						
E3	1190							
E4	1321							
E5	1507							
K2	1474	256						
K3	1638							
K4	1819							
K5	2077							

3/4" EVAPORATOR TUBES (MOD C)

TABLE 45 - 18' EVAPORATOR SHELLS WITH 3/4" TUBES

SHELL CODE	TUBE QTY.	STANDARD	OPTIONS			
		COPPER			COPPER-NICKEL	
		.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL
BB	1215	007 10017	007 10018	007 10019	007 09622	007 09623
BC	1484					
BD	1742					
NB	1537					
NC	1699					
ND	1850					
FB	2522					
FC	2822					
FD	3126					
HB	2888					
HC	3176					
HD	3548					

TABLE 46 - 22' EVAPORATOR SHELLS WITH 3/4" TUBES

SHELL CODE	TUBE QTY.	STANDARD	OPTIONS			
		COPPER			COPPER-NICKEL	
		.025 WALL	.028 WALL	.035 WALL	.028 WALL	.035 WALL
MB	1215	007 10048	007 10049	007 10050	007 10038	007 10039
MC	1484					
MD	1742					
EB	2004					
EC	2258					
ED	2504					
GB	2522					
GC	2822					
GD	3126					
HB	2888					
HC	3176					
HD	3548					
KB	2888					
KC	3176					
KD	3548					

1" EVAPORATOR TUBES (MOD C)

TABLE 47 - 18' EVAPORATOR SHELLS WITH 1" TUBES

SHELL CODE	TUBE QTY.	STANDARD	OPTIONS		
		COPPER			
		.025 WALL	.028 WALL	.035 WALL	
B2	655	007 10224	007 10225	007 10226	
B3	779				
B4	887				
N2	807				
N3	954				
N4	1063				
F2	1332				
F3	1480				
F4	1642				
H2	1490				
H3	1656				
H4	1840				

TABLE 48 - 22' EVAPORATOR SHELLS WITH 1" TUBES

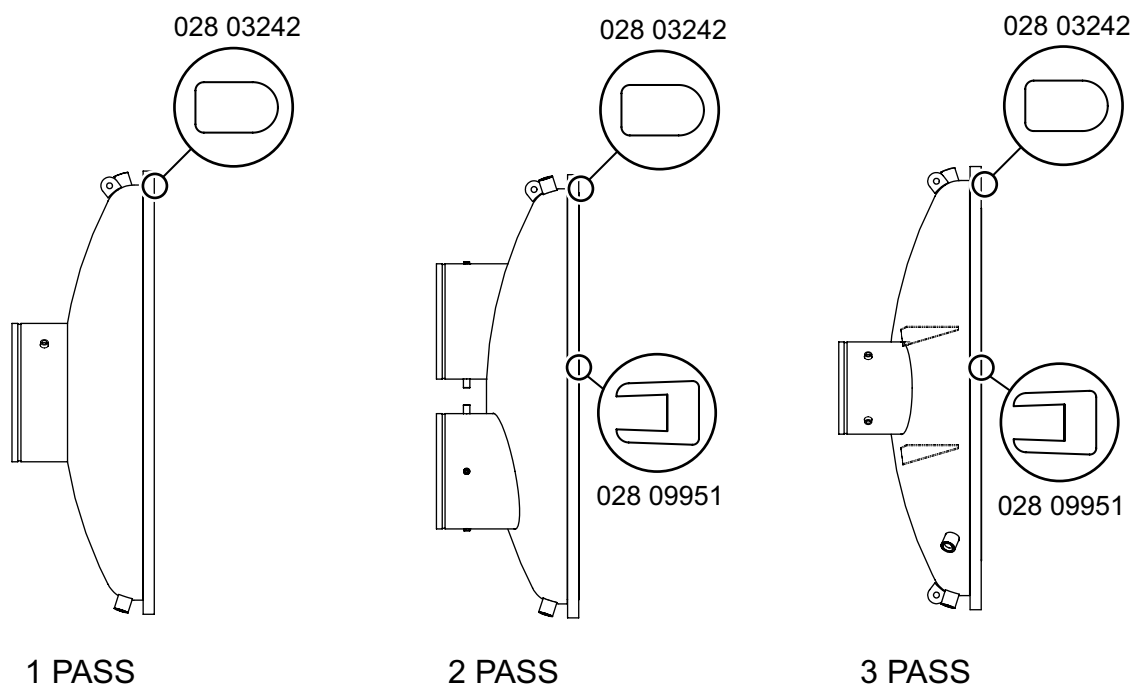
SHELL CODE	TUBE QTY.	STANDARD	OPTIONS	
		COPPER		
		.025 WALL	.028 WALL	.035 WALL
M2	655	007 10227	007 10028	007 10029
M3	779			
M4	887			
E2	1064			
E3	1178			
E4	1298			
G2	1332			
G3	1480			
G4	1642			
H2	1490			
H3	1656			
H4	1840			
K2	1490			
K3	1656			
K4	1840			

EVAPORATOR COMPACT WATERBOX

TABLE 49 - EVAPORATOR 150# COMPACT WATERBOX (MOD A)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
XF	028 03242	38'	028 09951	6'	028 09951	12'
XH			028 03242	38'	028 03242	38'
YF	028 03242	38'	028 09951	6'	028 09951	12'
YG			028 03242	38'	028 03242	38'
YH						
ZF	028 03242	38'	028 09951	6'	028 09951	12'
ZG			028 03242	38'	028 03242	38'
ZH						
AF	028 03242	38'	028 09951	6'	028 09951	12'
AG			028 03242	38'	028 03242	38'
AH						

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



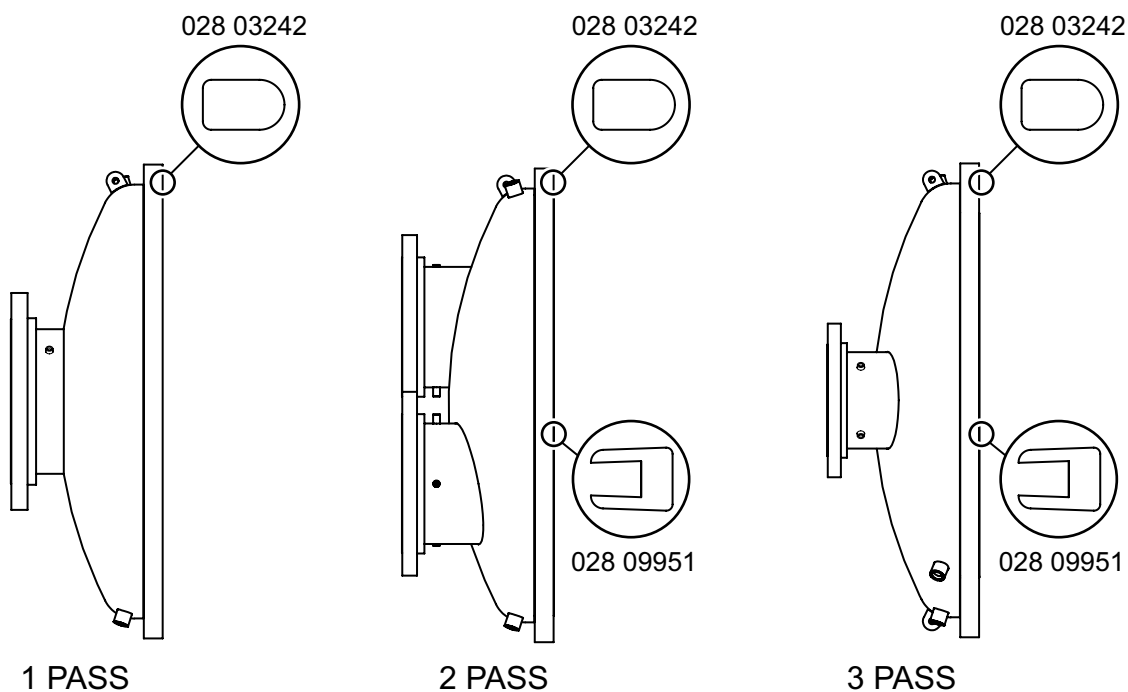
LD15198

FIGURE 62 - EVAPORATOR 150# COMPACT WATERBOX (MOD A)

TABLE 50 - EVAPORATOR 300# COMPACT WATERBOX (MOD A)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
XF	028 03242	38'	028 09951	6'	028 09951	12'
XH			028 03242	38'	028 03242	38'
YF	028 03242	38'	028 09951	6'	028 09951	12'
YG			028 03242	38'	028 03242	38'
YH						
ZF	028 03242	38'	028 09951	6'	028 09951	12'
ZG			028 03242	38'	028 03242	38'
ZH						
AF	028 03242	38'	028 09951	6'	028 09951	12'
AG			028 03242	38'	028 03242	38'
AH						

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15199

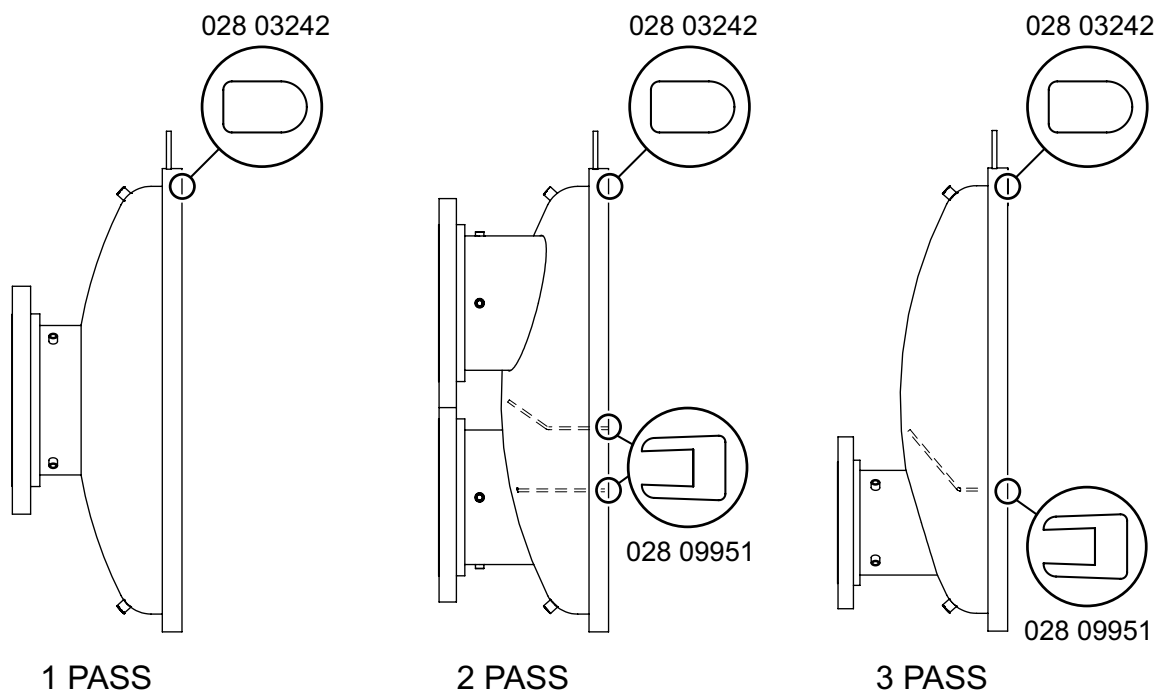
FIGURE 63 - EVAPORATOR 300# COMPACT WATERBOX (MOD A)

CONDENSER COMPACT WATERBOX

TABLE 51 - CONDENSER 150# COMPACT WATERBOX (MOD A)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
XA	028 03242	28'	028 09951 028 03242	4.5' 28'	028 09951 028 03242	8.5' 28'
XB						
XC						
XD						
YA	028 03242	28'	028 09951 028 03242	5' 33'	028 09951 028 03242	10' 33'
YB						
YC						
YD						
ZA	028 03242	28'	028 09951 028 03242	5.5' 35'	028 09951 028 03242	11' 35'
ZB						
ZC						
ZD						
AA	028 03242	28'	028 09951 028 03242	5.5' 35'	028 09951 028 03242	11' 35'
AB						
AC						
AD						

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15192

FIGURE 64 - CONDENSER 150# COMPACT WATERBOX (MOD A)

TABLE 52 - CONDENSER 300# COMPACT WATERBOX (MOD A)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
XA	028 03242	33'	028 09951 028 03242	5' 33'	028 09951 028 03242	10' 33'
XB						
XC						
XD						
YA	028 03242	33'	028 09951 028 03242	5' 33'	028 09951 028 03242	10' 33'
YB						
YC						
YD						
ZA	028 03242	33'	028 09951 028 03242	5.5' 35'	028 09951 028 03242	11' 35'
ZB						
ZC						
ZD						
AA	028 03242	33'	028 09951 028 03242	5.5' 35'	028 09951 028 03242	11' 35'
AB						
AC						
AD						

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

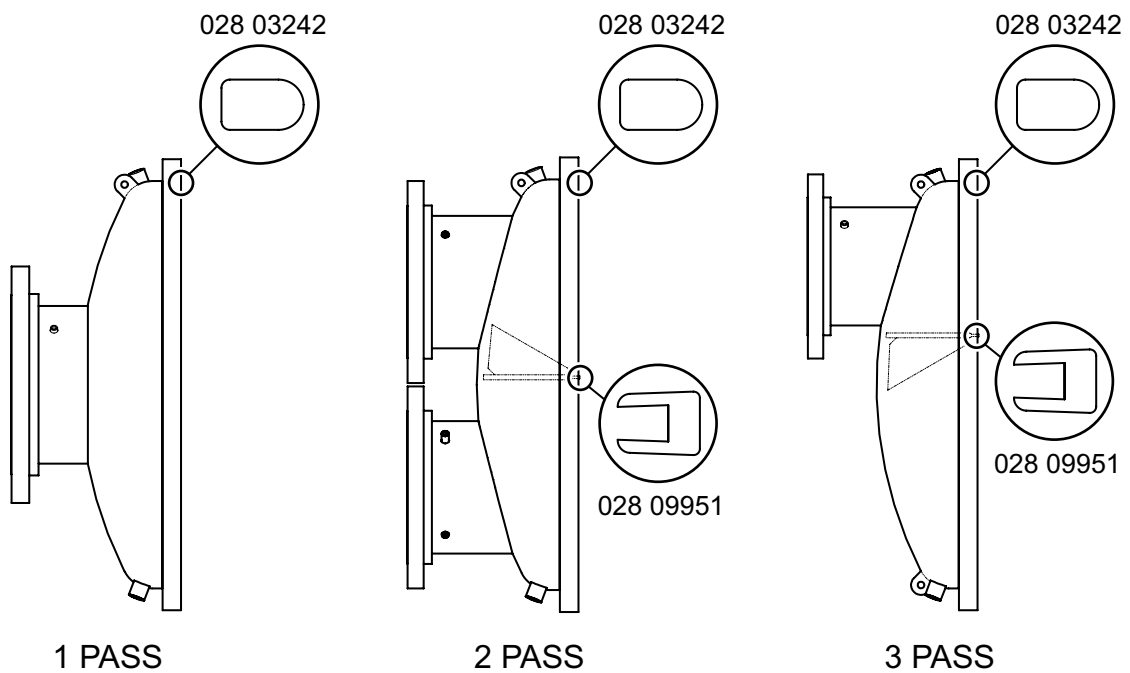


FIGURE 65 - CONDENSER 300# COMPACT WATERBOX (MOD A)

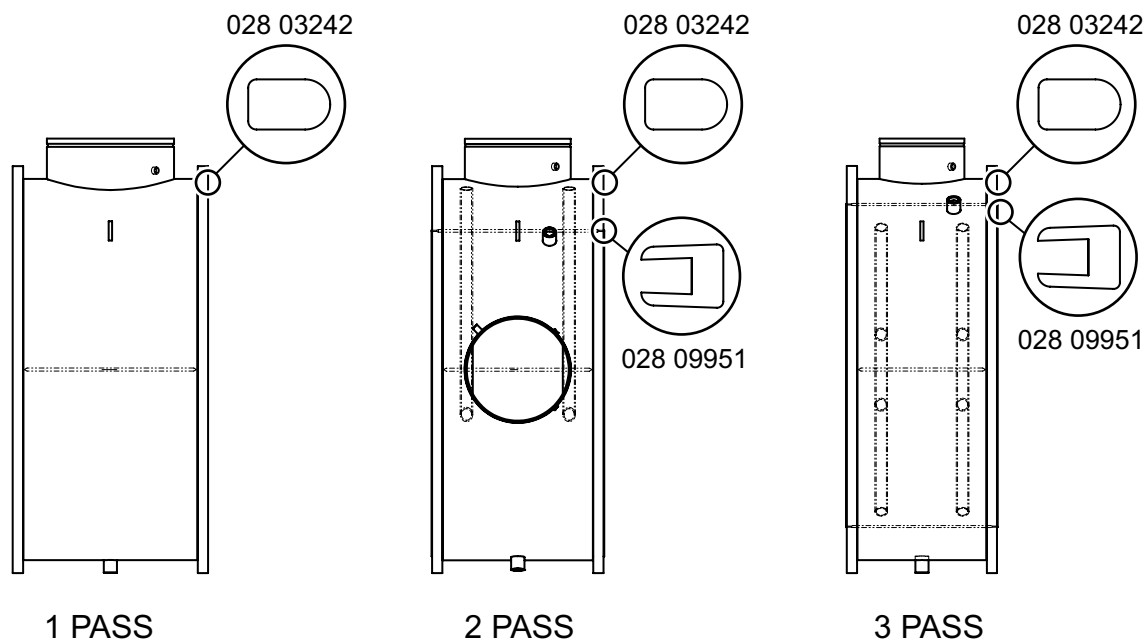
LD15382

EVAPORATOR MARINE WATERBOX

TABLE 53 - EVAPORATOR 150# MARINE WATERBOX (MOD A)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
XF	028 03242	76'	028 09951	12'	028 09951	23.5'
XH			028 03242	57'	028 03242	76'
YF	028 03242	76'	028 09951 028 03242	12' 57'	028 09951 028 03242	23.5' 76'
YG						
YH						
ZF	028 03242	76'	028 09951 028 03242	12' 57'	028 09951 028 03242	227' 86'
ZG						
ZH						
AF	028 03242	76'	028 09951 028 03242	12' 57'	028 09951 028 03242	227' 86'
AG						
AH						

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



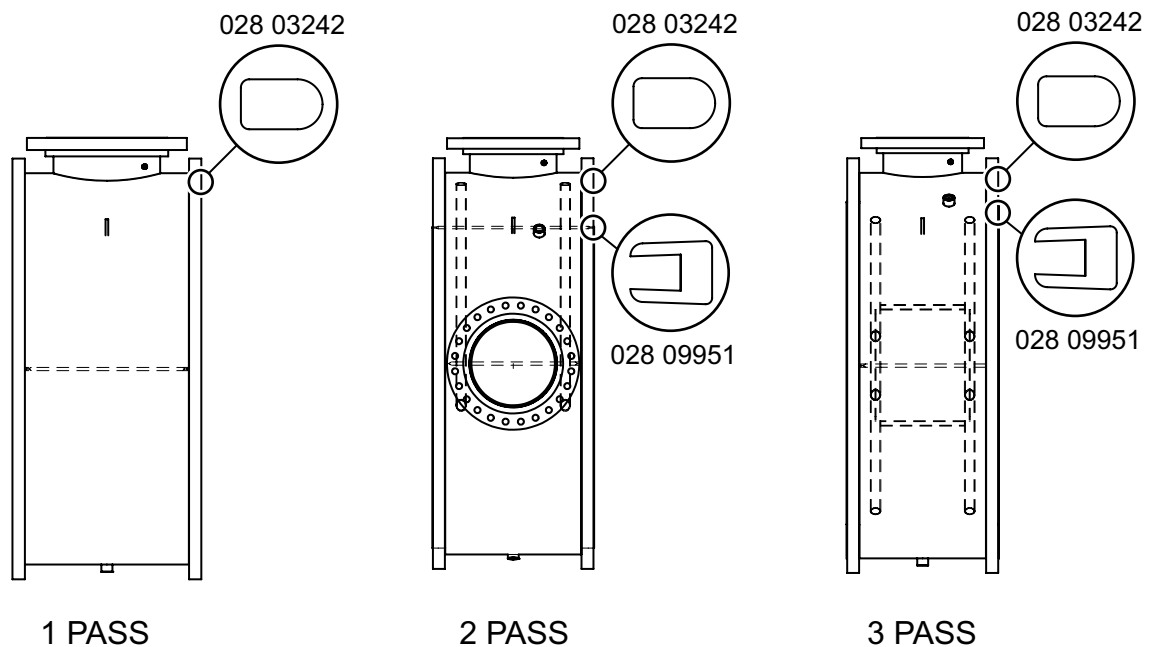
LD15383

FIGURE 66 - EVAPORATOR 150# MARINE WATERBOX (MOD A)

TABLE 54 - EVAPORATOR 300# MARINE WATERBOX (MOD A)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
XF	028 03242	76'	028 09951	23.5'	028 09951	23.5'
XH			028 03242	57'	028 03242	76'
YF	028 03242	76'	028 09951	23.5'	028 09951	23.5'
YG			028 03242	57'	028 03242	76'
YH						
ZF	028 03242	76'	028 09951	23.5'	028 09951	28.5'
ZG			028 03242	57'	028 03242	92'
ZH						
AF	028 03242	76'	028 09951	23.5'	028 09951	28.5'
AG			028 03242	57'	028 03242	92'
AH						

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15385

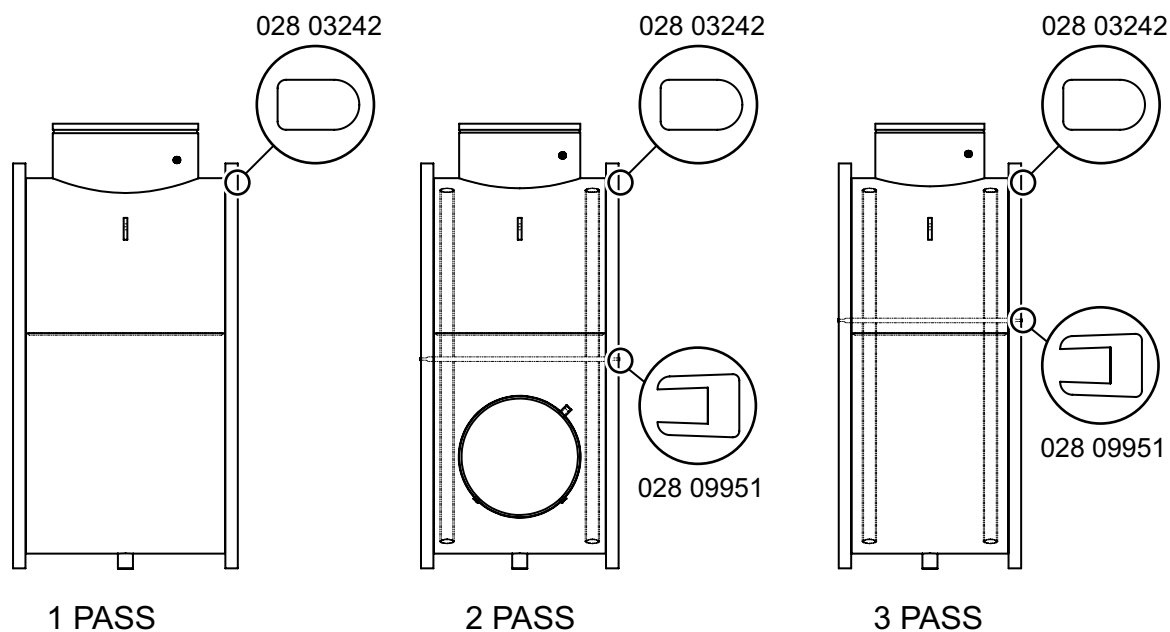
FIGURE 67 - EVAPORATOR 300# MARINE WATERBOX (MOD A)

CONDENSER MARINE WATERBOX

TABLE 55 - CONDENSER 150# MARINE WATERBOX (MOD A)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
XA	028 03242	66'	028 09951 028 03242	10' 49.5'	028 09951 028 03242	20' 66'
XB						
XC						
XD						
YA	028 03242	66'	028 09951 028 03242	10' 49.5'	028 09951 028 03242	20' 66'
YB						
YC						
YD						
ZA	028 03242	66'	028 09951 028 03242	12' 57'	028 09951 028 03242	24' 76'
ZB						
ZC						
ZD						
AA	028 03242	66'	028 09951 028 03242	12' 57'	028 09951 028 03242	24' 76'
AB						
AC						
AD						

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



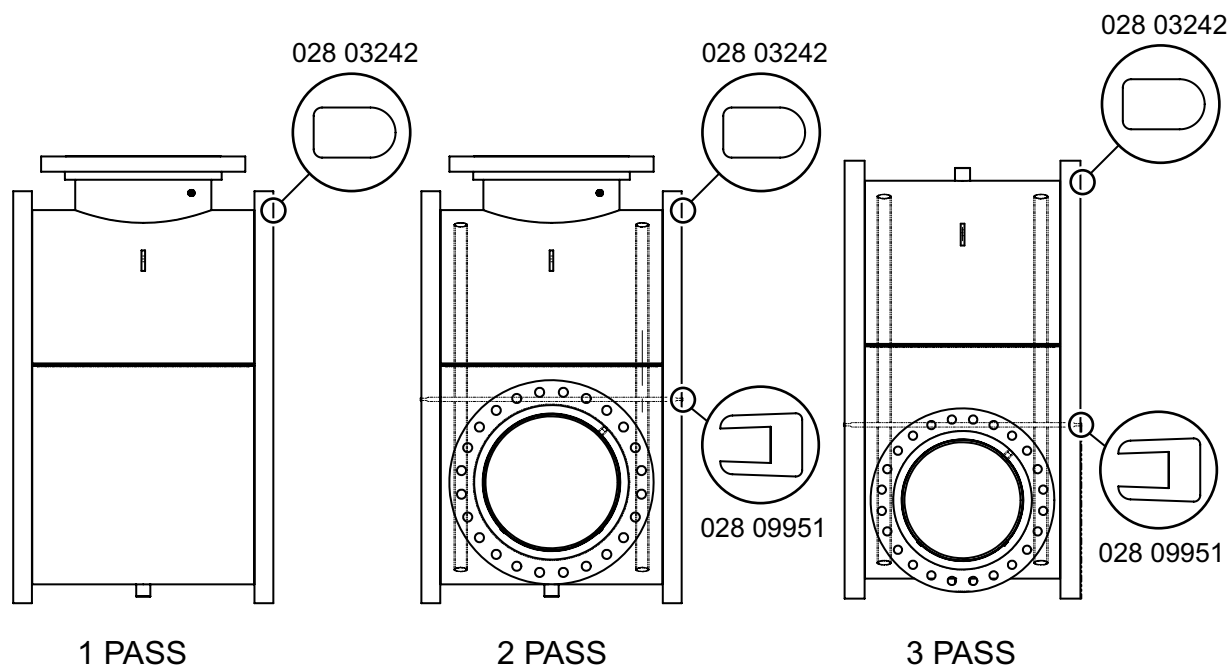
LD15386

FIGURE 68 - CONDENSER 150# MARINE WATERBOX (MOD A)

TABLE 56 - CONDENSER 300# MARINE WATERBOX (MOD A)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
XA	028 03242	66'	028 09951 028 03242	10' 49.5'	028 09951 028 03242	19.5' 66'
XB						
XC						
XD						
YA	028 03242	66'	028 09951 028 03242	10' 49.5'	028 09951 028 03242	19.5' 66'
YB						
YC						
YD						
ZA	028 03242	66'	028 09951 028 03242	11' 52.5'	028 09951 028 03242	12' 38'
ZB						
ZC						
ZD						
AA	028 03242	66'	028 09951 028 03242	11' 52.5'	028 09951 028 03242	12' 38'
AB						
AC						
AD						

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15385

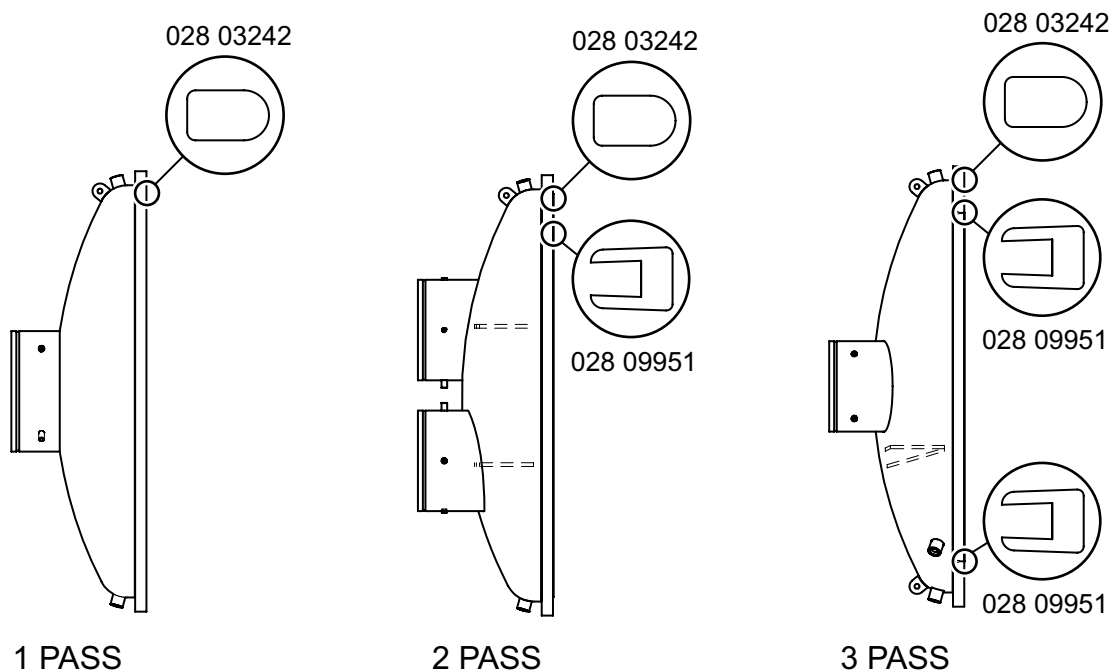
FIGURE 69 - CONDENSER 300# MARINE WATERBOX (MOD A)

EVAPORATOR COMPACT WATERBOX

TABLE 57 - EVAPORATOR 150# COMPACT WATERBOX (MOD B)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'
C	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'
D/E	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'
F/G	028 03242	38'	028 09951	6'	028 09951	14'
			028 03242	38'	028 03242	43'
H/K	028 03242	38'	028 09951	6'	028 09951	14'
			028 03242	38'	028 03242	43'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



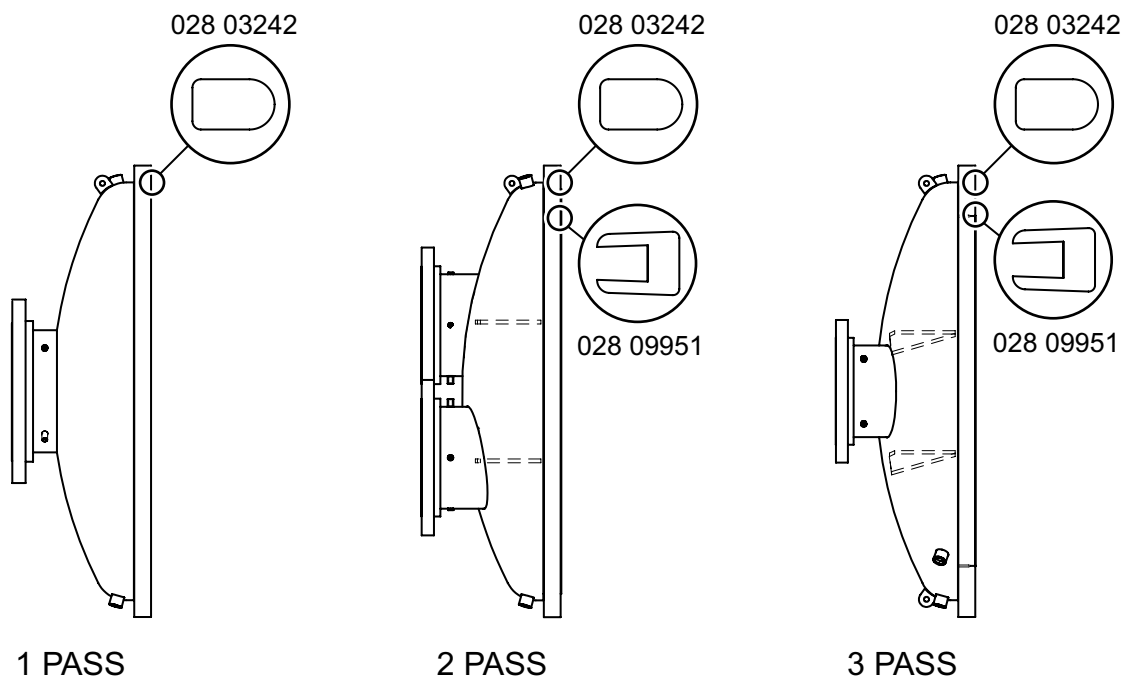
LD15388

FIGURE 70 - EVAPORATOR 150# COMPACT WATERBOX (MOD B)

TABLE 58 - EVAPORATOR 300# COMPACT WATERBOX (MOD B)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'
C	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'
D/E	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'
F/G	028 03242	38'	028 09951	6'	028 09951	14'
			028 03242	38'	028 03242	43'
H/K	028 03242	38'	028 09951	6'	028 09951	14'
			028 03242	38'	028 03242	43'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15189

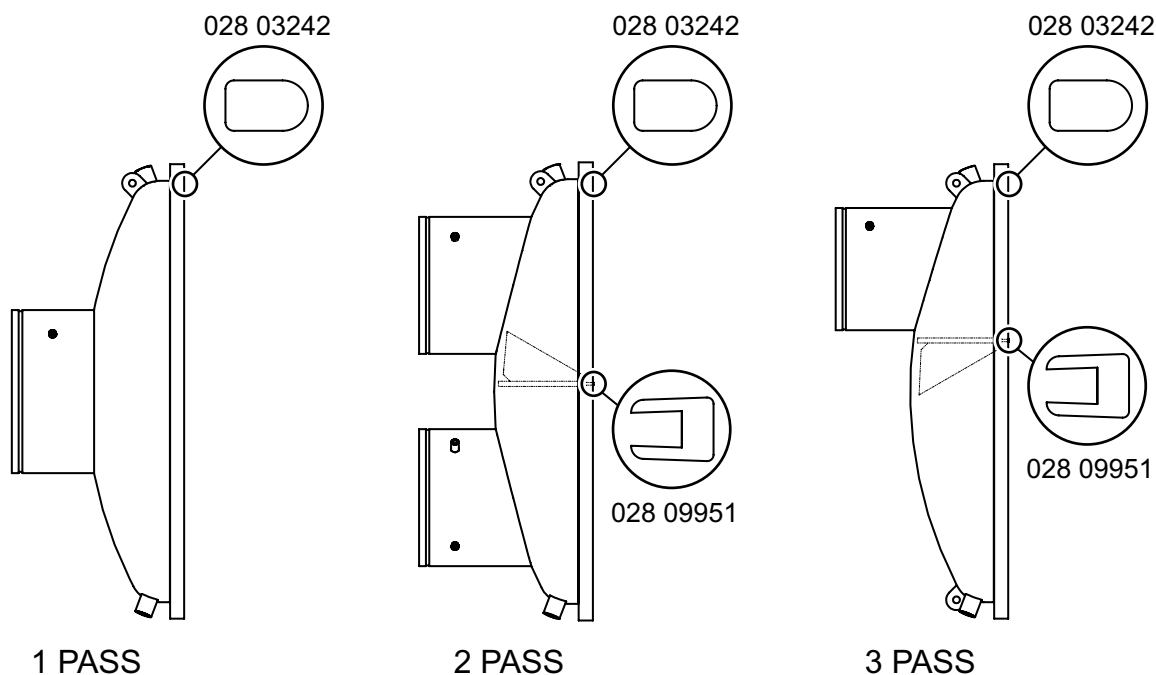
FIGURE 71 - EVAPORATOR 300# COMPACT WATERBOX (MOD B)

CONDENSER COMPACT WATERBOX

TABLE 59 - CONDENSER 150# COMPACT WATERBOX (MOD B)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B	028 03242	28'	028 09951	4.5'	028 09951	9.25'
			028 03242	28'	028 03242	30.25'
C	028 03242	28'	028 09951	5'	028 09951	9.25'
			028 03242	33'	028 03242	30.25'
D/E	028 03242	28'	028 09951	5'	028 09951	10'
			028 03242	33'	028 03242	33'
F/G	028 03242	28'	028 09951	5.5'	028 09951	11'
			028 03242	35'	028 03242	35'
H/K	028 03242	28'	028 09951	5.5'	028 09951	11'
			028 03242	35'	028 03242	35'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15392

FIGURE 72 - CONDENSER 150# COMPACT WATERBOX (MOD B)

TABLE 60 - CONDENSER 300# COMPACT WATERBOX (MOD B)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B	028 03242	33'	028 09951	4.5'	028 09951	9.25'
			028 03242	28'	028 03242	30.25'
C	028 03242	33'	028 09951	5'	028 09951	9.25'
			028 03242	33'	028 03242	30.25'
D/E	028 03242	33'	028 09951	5'	028 09951	10'
			028 03242	33'	028 03242	33'
F/G	028 03242	33'	028 09951	5.5'	028 09951	11'
			028 03242	35'	028 03242	35'
H/K	028 03242	33'	028 09951	5.5'	028 09951	11'
			028 03242	35'	028 03242	35'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

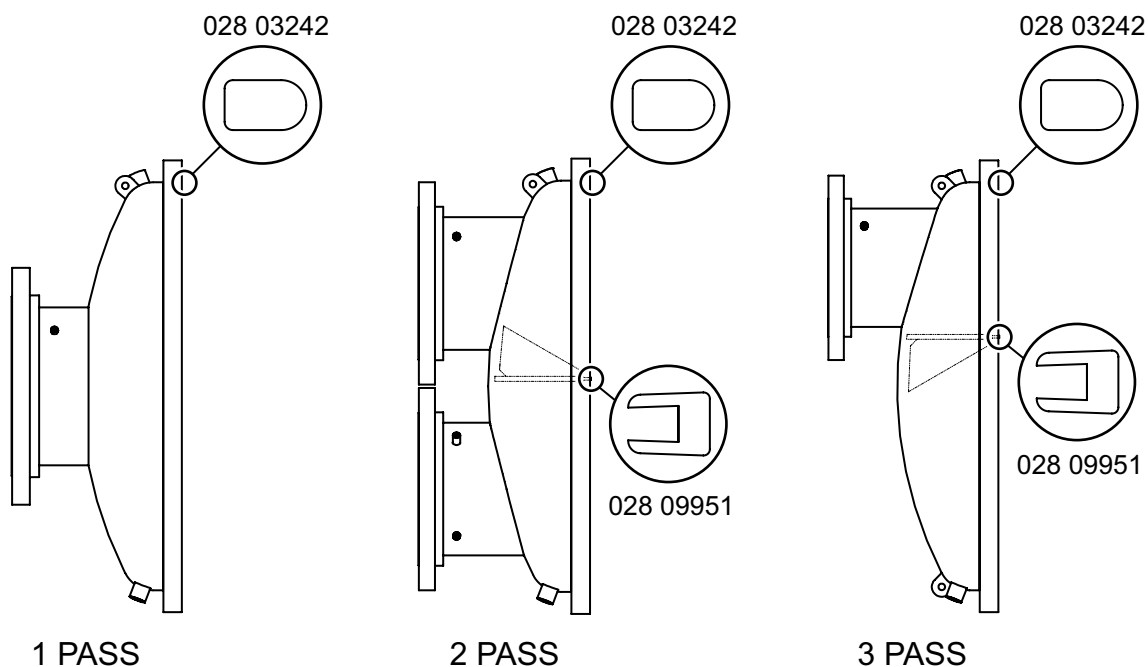


FIGURE 73 - CONDENSER 300# COMPACT WATERBOX (MOD B)

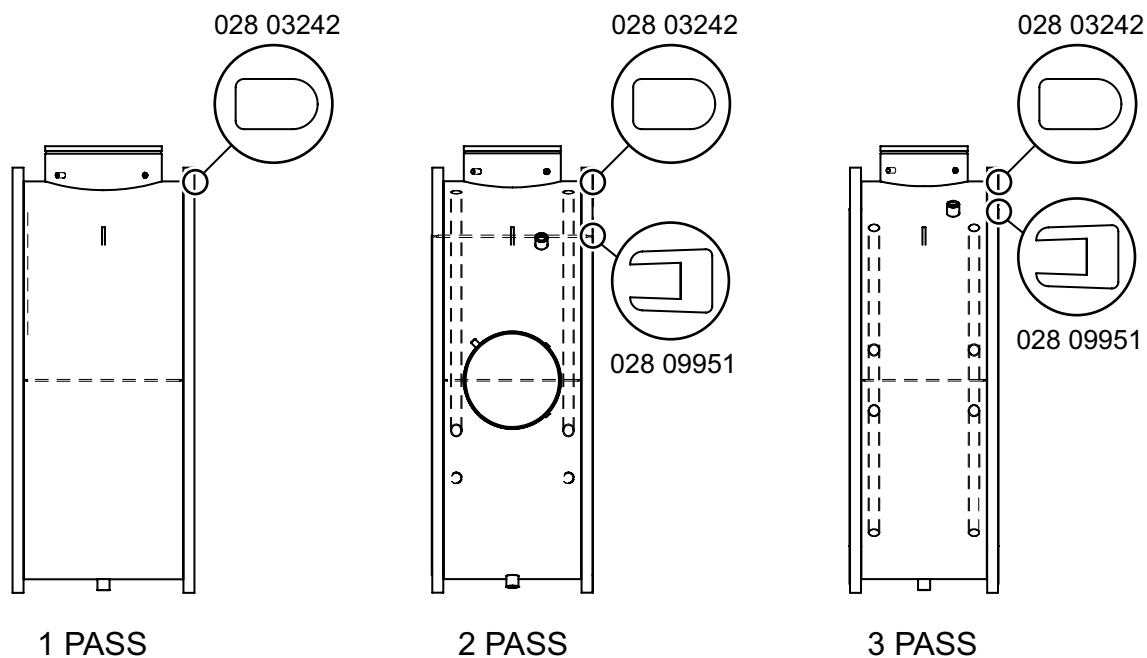
LD15393

EVAPORATOR MARINE WATERBOX

TABLE 61 - EVAPORATOR 150# MARINE WATERBOX (MOD B)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B	028 03242	76'	028 09951	12'	028 09951	23'
			028 03242	57'	028 03242	76'
C	028 03242	76'	028 09951	12'	028 09951	23'
			028 03242	57'	028 03242	76'
D/E	028 03242	76'	028 09951	12'	028 09951	23.5'
			028 03242	57'	028 03242	76'
F/G	028 03242	76'	028 09951	12'	028 09951	27'
			028 03242	57'	028 03242	86'
H/K	028 03242	76'	028 09951	12'	028 09951	27'
			028 03242	57'	028 03242	86'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



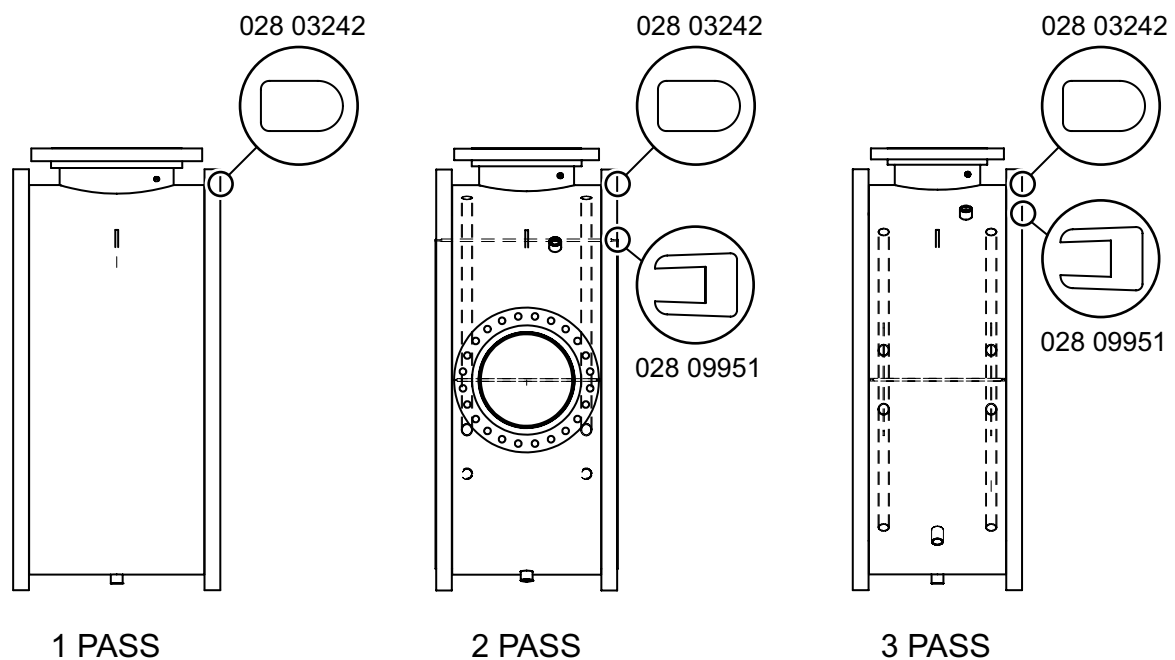
LD15190

FIGURE 74 - EVAPORATOR 150# MARINE WATERBOX (MOD B)

TABLE 62 - EVAPORATOR 300# MARINE WATERBOX (MOD B)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B	028 03242	76'	028 09951	23.5'	028 09951	23.5'
			028 03242	57'	028 03242	76'
C	028 03242	76'	028 09951	23.5'	028 09951	23.5'
			028 03242	57'	028 03242	76'
D/E	028 03242	76'	028 09951	23.5'	028 09951	23.5'
			028 03242	57'	028 03242	76'
F/G	028 03242	76'	028 09951	23.5'	028 09951	26.5'
			028 03242	57'	028 03242	86'
H/K	028 03242	76'	028 09951	23.5'	028 09951	26.5'
			028 03242	57'	028 03242	86'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15191

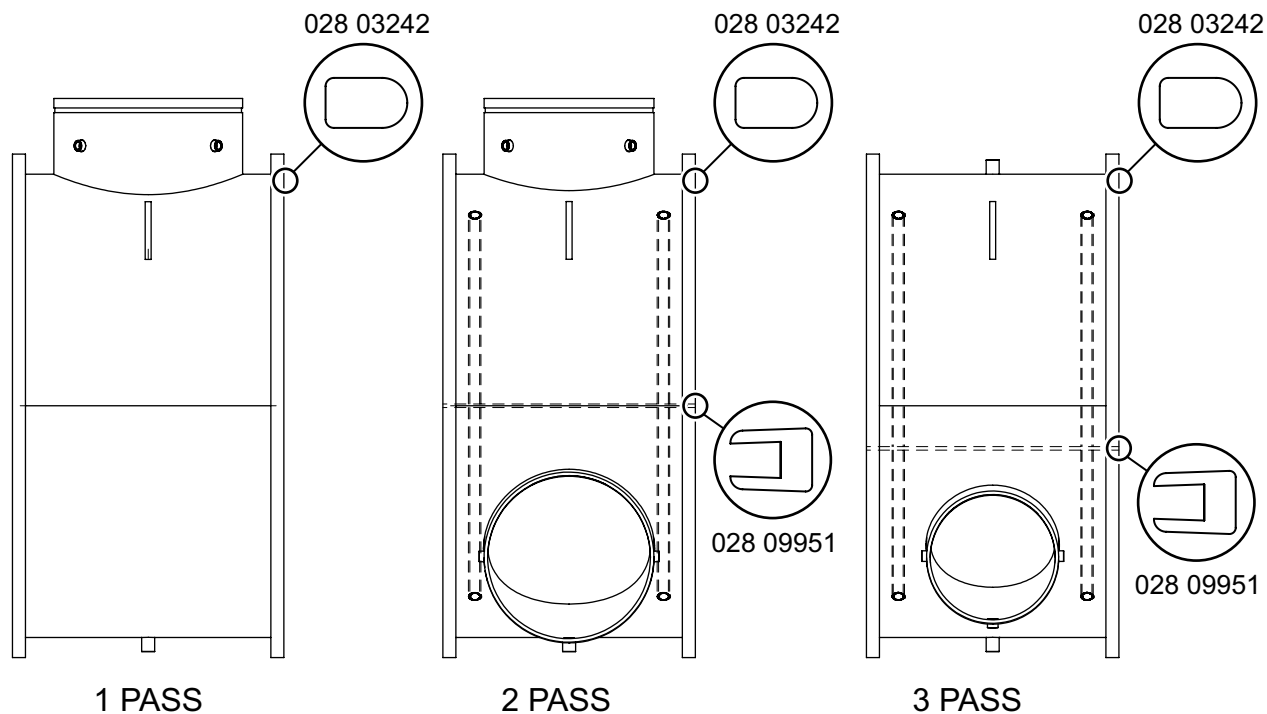
FIGURE 75 - EVAPORATOR 300# MARINE WATERBOX (MOD B)

CONDENSER MARINE WATERBOX

TABLE 63 - CONDENSER 150# MARINE WATERBOX (MOD B)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B	028 03242	56'	028 09951	9'	028 09951	18.25'
			028 03242	42'	028 03242	60'
C	028 03242	56'	028 09951	9.5'	028 09951	18.25'
			028 03242	45'	028 03242	60'
D/E	028 03242	56'	028 09951	9.5'	028 09951	20'
			028 03242	45'	028 03242	66'
F/G	028 03242	56'	028 09951	10'	028 09951	22'
			028 03242	49'	028 03242	70'
H/K	028 03242	56'	028 09951	10'	028 09951	22'
			028 03242	49'	028 03242	70'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



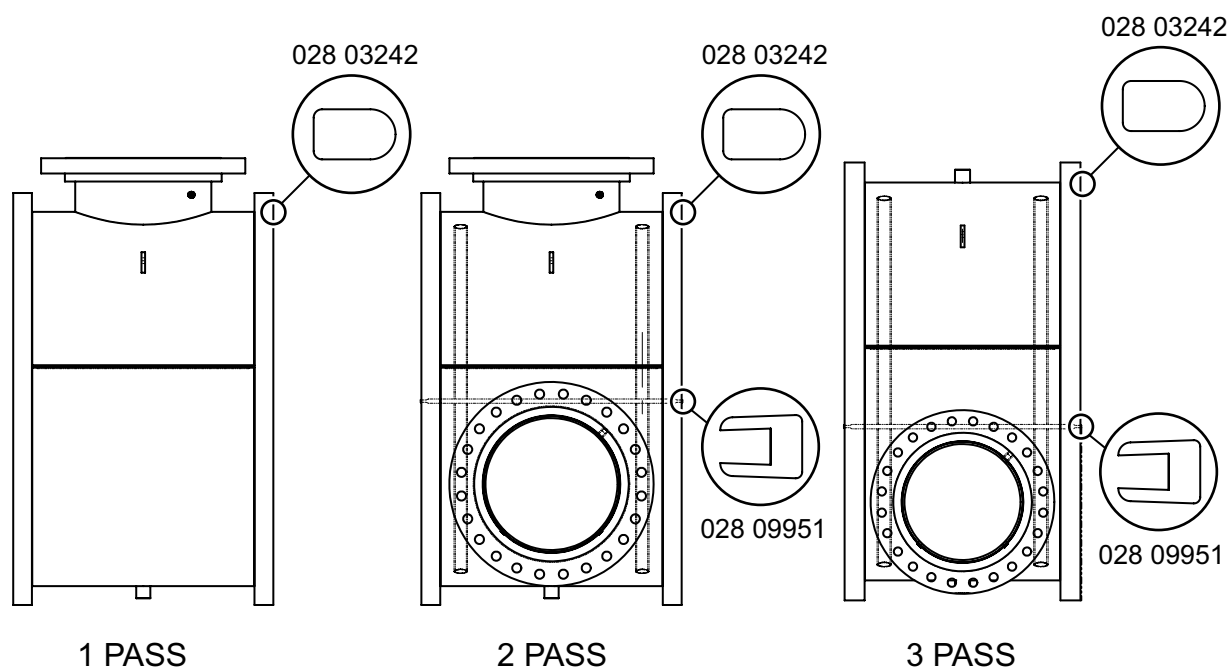
LD15194

FIGURE 76 - CONDENSER 150# MARINE WATERBOX (MOD B)

TABLE 64 - CONDENSER 300# MARINE WATERBOX (MOD B)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B	028 03242	56'	028 09951	9'	028 09951	18.25'
			028 03242	42'	028 03242	60'
C	028 03242	56'	028 09951	9.5'	028 09951	18.25'
			028 03242	45'	028 03242	60'
D/E	028 03242	56'	028 09951	9.5'	028 09951	19.5'
			028 03242	45'	028 03242	66'
F/G	028 03242	56'	028 09951	11'	028 09951	22'
			028 03242	52.5'	028 03242	70'
H/K	028 03242	56'	028 09951	11'	028 09951	22'
			028 03242	52.5'	028 03242	70'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15387

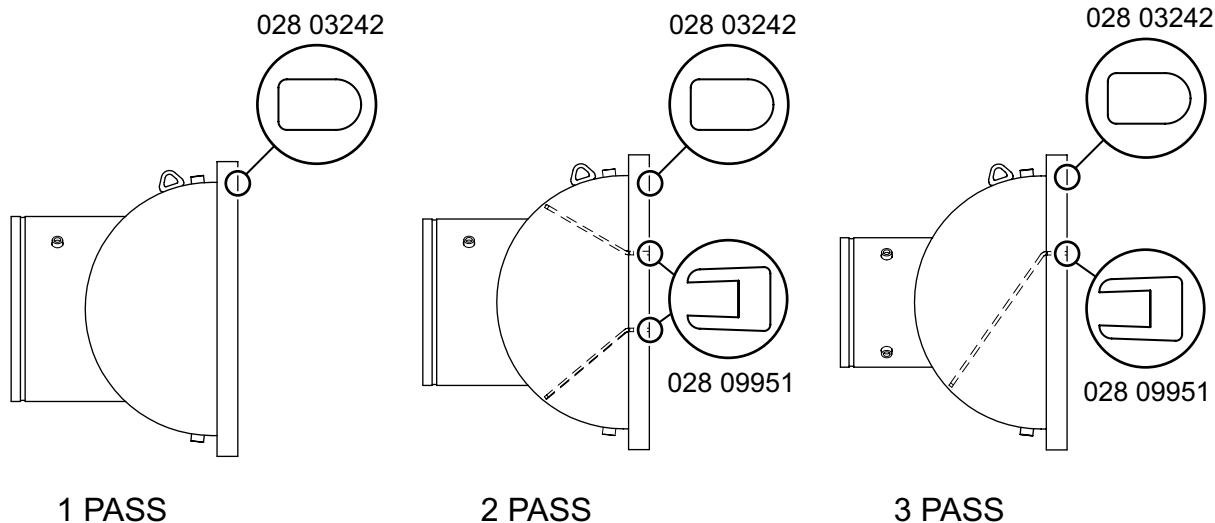
FIGURE 77 - CONDENSER 300# MARINE WATERBOX (MOD B)

EVAPORATOR COMPACT WATERBOX

TABLE 65 - EVAPORATOR 150# COMPACT WATERBOX (MOD C)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B, M	028 03242	30'	028 09951	6'	028 09951	10'
			028 03242	30'	028 03242	30'
N	028 03242	32'	028 09951	6'	028 09951	11'
			028 03242	32'	028 03242	32'
E	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'
F, G	028 03242	43'	028 09951	7'	028 09951	14'
			028 03242	43'	028 03242	43'
H, K	028 03242	46'	028 09951	8'	028 09951	15'
			028 03242	46'	028 03242	46'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



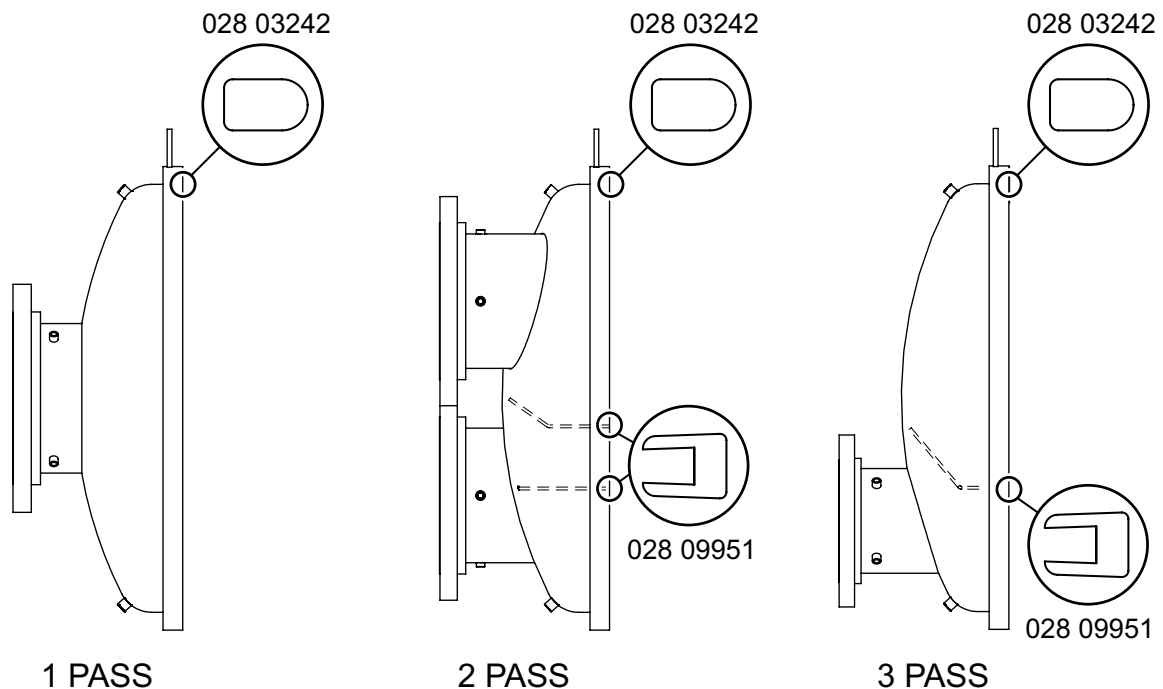
LD15188

FIGURE 78 - EVAPORATOR 150# COMPACT WATERBOX (MOD C)

TABLE 66 - EVAPORATOR 300# COMPACT WATERBOX (MOD C)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B, M	028 03242	30'	028 09951	6'	028 09951	9'
			028 03242	30'	028 03242	30'
N	028 03242	33'	028 09951	6'	028 09951	10'
			028 03242	33'	028 03242	33'
E	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'
F, G	028 03242	43'	028 09951	7'	028 09951	14'
			028 03242	43'	028 03242	43'
H, K	028 03242	46'	028 09951	8'	028 09951	15'
			028 03242	46'	028 03242	46'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15189

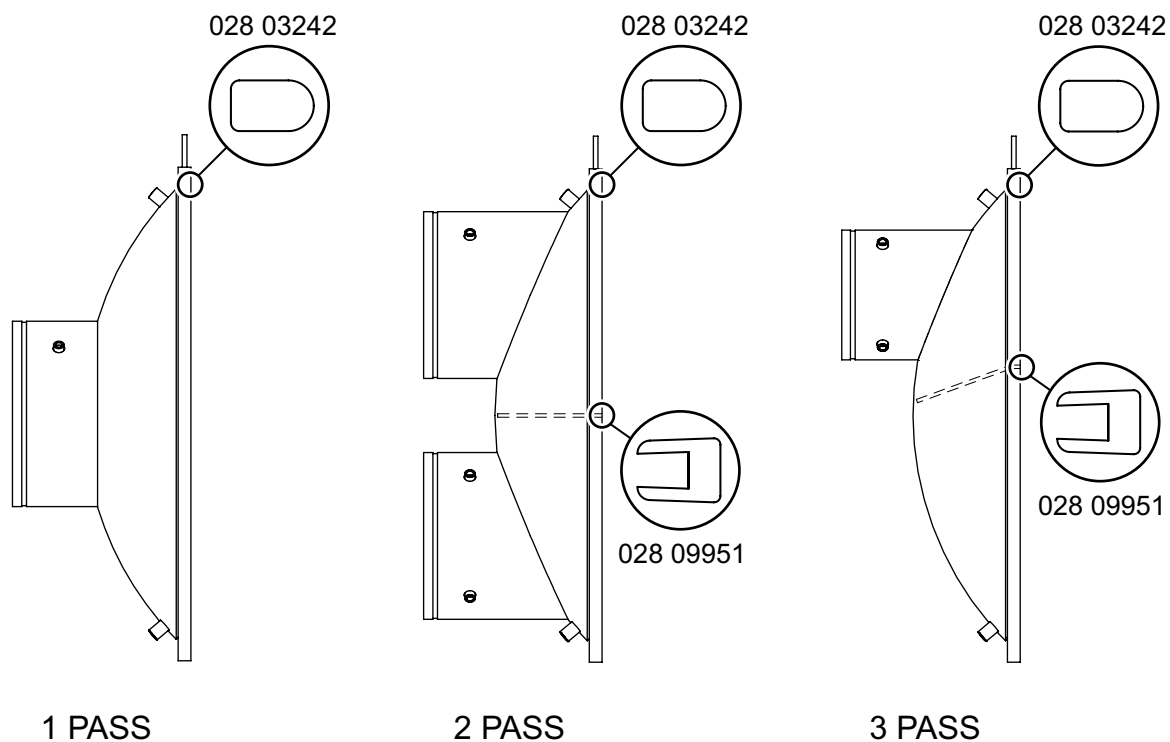
FIGURE 79 - EVAPORATOR 300# COMPACT WATERBOX (MOD C)

CONDENSER COMPACT WATERBOX

TABLE 67 - CONDENSER 150# COMPACT WATERBOX (MOD C)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
L, M	028 03242	27'	028 09951	4'	028 09951	8'
			028 03242	27'	028 03242	27'
B	028 03242	28'	028 09951	5'	028 09951	9'
			028 03242	28'	028 03242	28'
C	028 03242	30'	028 09951	5'	028 09951	10'
			028 03242	30'	028 03242	30'
D, E	028 03242	33'	028 09951	5'	028 09951	10'
			028 03242	33'	028 03242	33'
F	028 03242	35'	028 09951	6'	028 09951	11'
			028 03242	35'	028 03242	35'
K	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15192

FIGURE 80 - CONDENSER 150# COMPACT WATERBOX (MOD C)

TABLE 68 - CONDENSER 300# COMPACT WATERBOX (MOD C)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
L, M	028 03242	26'	028 09951	4'	028 09951	8'
			028 03242	26'	028 03242	26'
B	-	-	-	-	-	-
C	028 03242	30'	028 09951	6'	028 09951	10'
			028 03242	30'	028 03242	30'
D, E	028 03242	33'	028 09951	5'	028 09951	10'
			028 03242	33'	028 03242	33'
F	028 03242	35'	028 09951	6'	028 09951	11'
			028 03242	35'	028 03242	35'
K	028 03242	38'	028 09951	6'	028 09951	12'
			028 03242	38'	028 03242	38'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

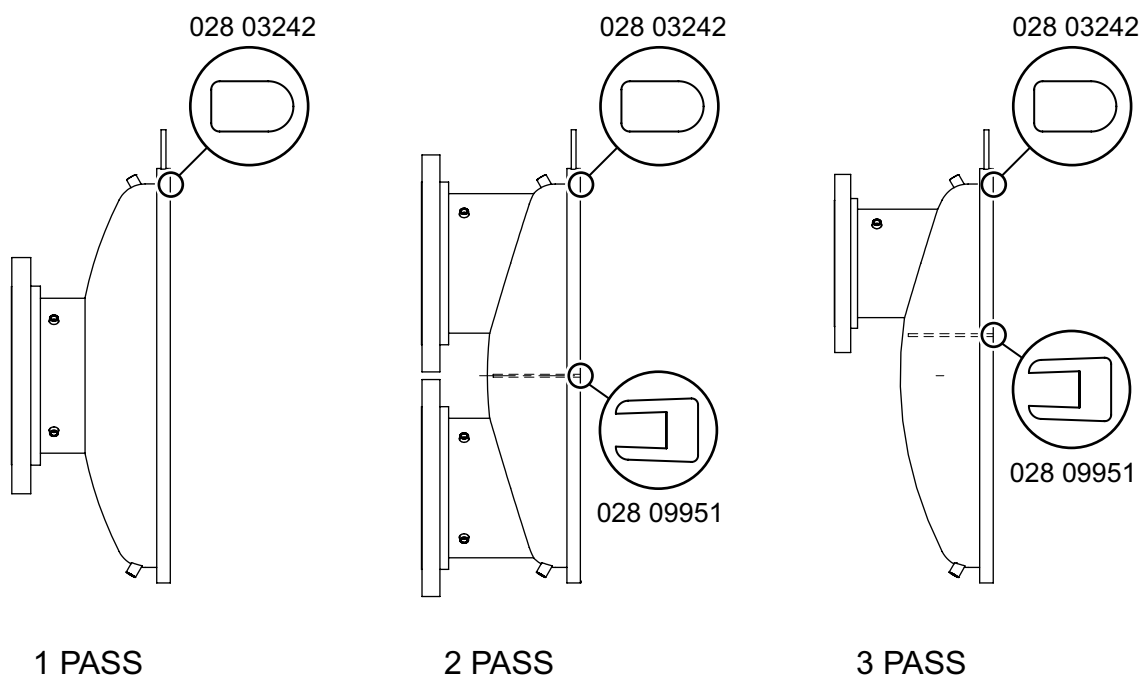


FIGURE 81 - CONDENSER 300# COMPACT WATERBOX (MOD C)

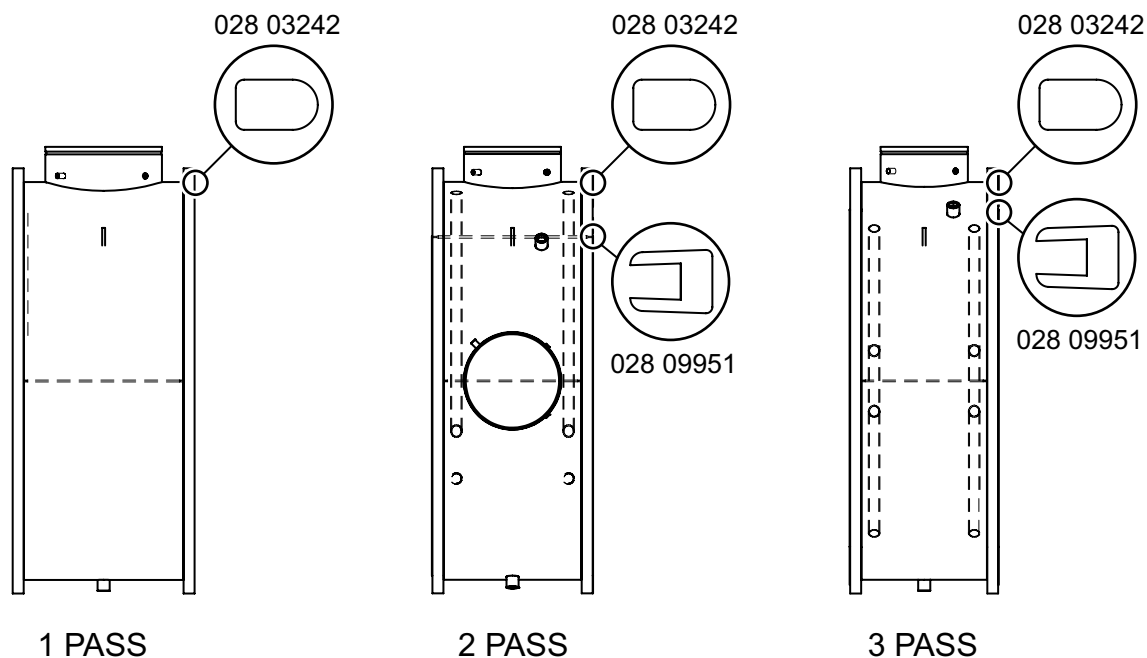
LD15188

EVAPORATOR MARINE WATERBOX

TABLE 69 - EVAPORATOR 150# MARINE WATERBOX (MOD C)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B, M	028 03242	61'	028 09951	11'	028 09951	18'
			028 03242	46'	028 03242	61'
N	028 03242	67'	028 09951	12'	028 09951	20'
			028 03242	50'	028 03242	67'
E	028 03242	76'	028 09951	12'	028 09951	24'
			028 03242	57'	028 03242	76'
F, G	028 03242	86'	028 09951	14'	028 09951	27'
			028 03242	65'	028 03242	86'
H, K	028 03242	92'	028 09951	15'	028 09951	29'
			028 03242	69'	028 03242	92'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15190

FIGURE 82 - EVAPORATOR 150# MARINE WATERBOX (MOD C)

TABLE 70 - EVAPORATOR 300# MARINE WATERBOX (MOD C)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
B, M	028 03242	60'	028 09951	11'	028 09951	18'
			028 03242	45'	028 03242	60'
N	028 03242	65'	028 09951	11'	028 09951	20'
			028 03242	49'	028 03242	65'
E	028 03242	76'	028 09951	24'	028 09951	24'
			028 03242	57'	028 03242	76'
F, G	028 03242	86'	028 09951	14'	028 09951	27'
			028 03242	65'	028 03242	86'
H, K	028 03242	92'	028 09951	15'	028 09951	29'
			028 03242	69'	028 03242	92'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

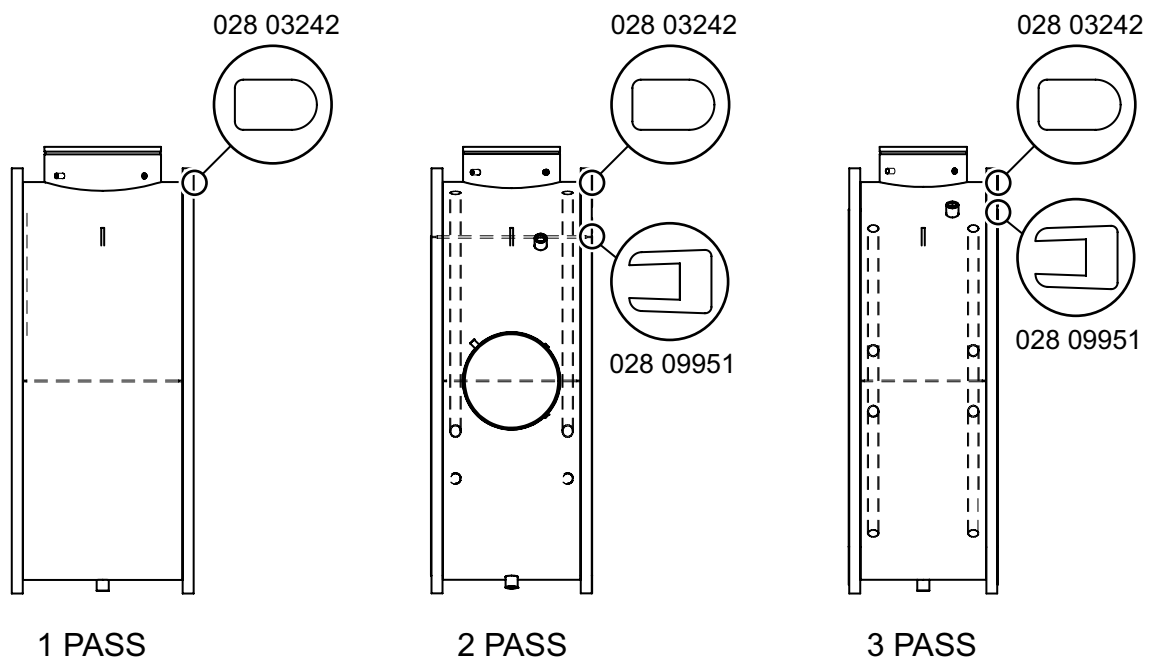


FIGURE 83 - EVAPORATOR 300# MARINE WATERBOX (MOD C)

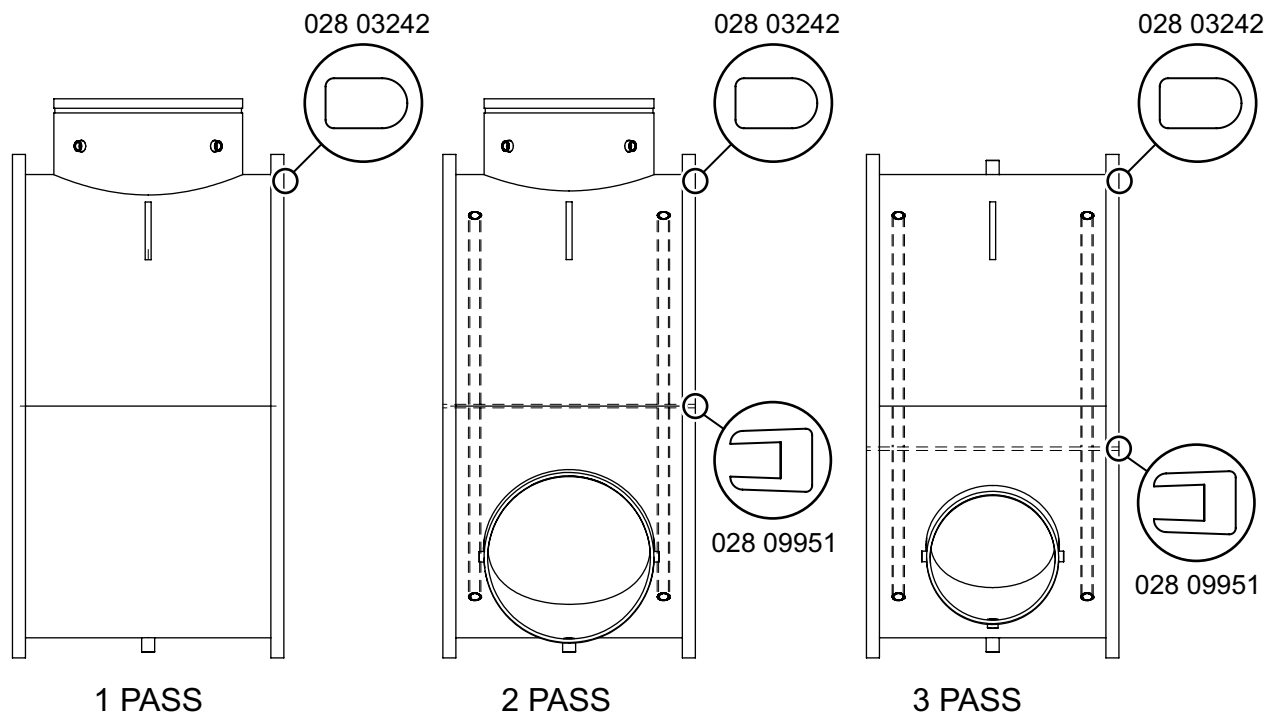
LD15191

CONDENSER MARINE WATERBOX

TABLE 71 - CONDENSER 150# MARINE WATERBOX (MOD C)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
L, M	028 03242	53'	028 09951	8'	028 09951	15'
			028 03242	40'	028 03242	53'
B	028 03242	56'	028 09951	9'	028 09951	17'
			028 03242	42'	028 03242	56'
C	028 03242	60'	028 09951	10'	028 09951	19'
			028 03242	45'	028 03242	60'
D, E	028 03242	66'	028 09951	10'	028 09951	20'
			028 03242	50'	028 03242	66'
F	028 03242	70'	028 09951	11'	028 09951	22'
			028 03242	53'	028 03242	70'
K	028 03242	76'	028 09951	12'	028 09951	24'
			028 03242	57'	028 03242	76'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.



LD15194

FIGURE 84 - CONDENSER 150# MARINE WATERBOX (MOD C)

TABLE 72 - CONDENSER 300# MARINE WATERBOX (MOD C)

SHELL	1 PASS		2 PASS		3 PASS	
	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D	GASKET P/N	FEET REQ'D
L, M	028 03242	52'	028 09951	8'	028 09951	16'
			028 03242	39'	028 03242	52'
B	028 03242	56'	028 09951	10'	028 09951	19'
			028 03242	42'	028 03242	56'
C	028 03242	61'	028 09951	10'	028 09951	19'
			028 03242	46'	028 03242	61'
D, E	028 03242	66'	028 09951	5'	028 09951	20'
			028 03242	33'	028 03242	66'
F	028 03242	70'	028 09951	11'	028 09951	22'
			028 03242	53'	028 03242	70'
K	028 03242	76'	028 09951	12'	028 09951	24'
			028 03242	57'	028 03242	76'

NOTE: When ordering Gasket Material specify length required by replacing the -000 with either -025 for 25', -050 for 50', or -100 for 100'.

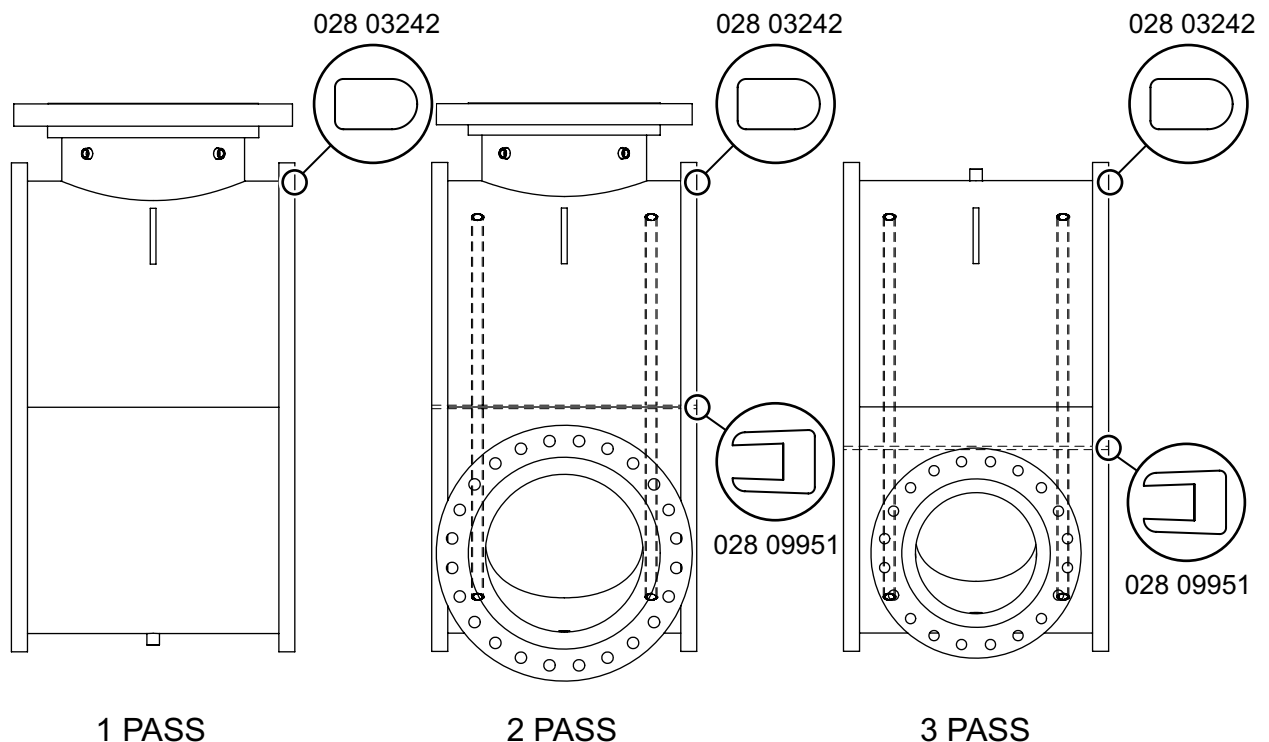


FIGURE 85 - CONDENSER 300# MARINE WATERBOX (MOD C)

LD15195

NEOPRENE VIBRATION ISOLATORS

SYSTEM OPERATING WEIGHT		PART NUMBER (INCLUDES QUANTITY OF 4 PADS)	PAD SIZE
KILOGRAMS	POUNDS		
Up to 58,967	Up to 130,000	028 15070 000	11" x 10" (28 x 25 cm)

SPRING ISOLATORS

SYSTEM OPERATING WEIGHT		PART NUMBER (INCLUDES QTY. 4 SPRING BOLTS)	QUANTITY (NUMBER OF MOUNTS PER PACKAGE)
KILOGRAMS	POUNDS		
Up to 22,044	Up to 48,600	029 24384 001	4
Up to 27,512	Up to 60,000	029 24384 002	4
Up to 29,392	Up to 64,800	029 25037 001	4
Up to 36,287	Up to 80,000	029 25037 002	4

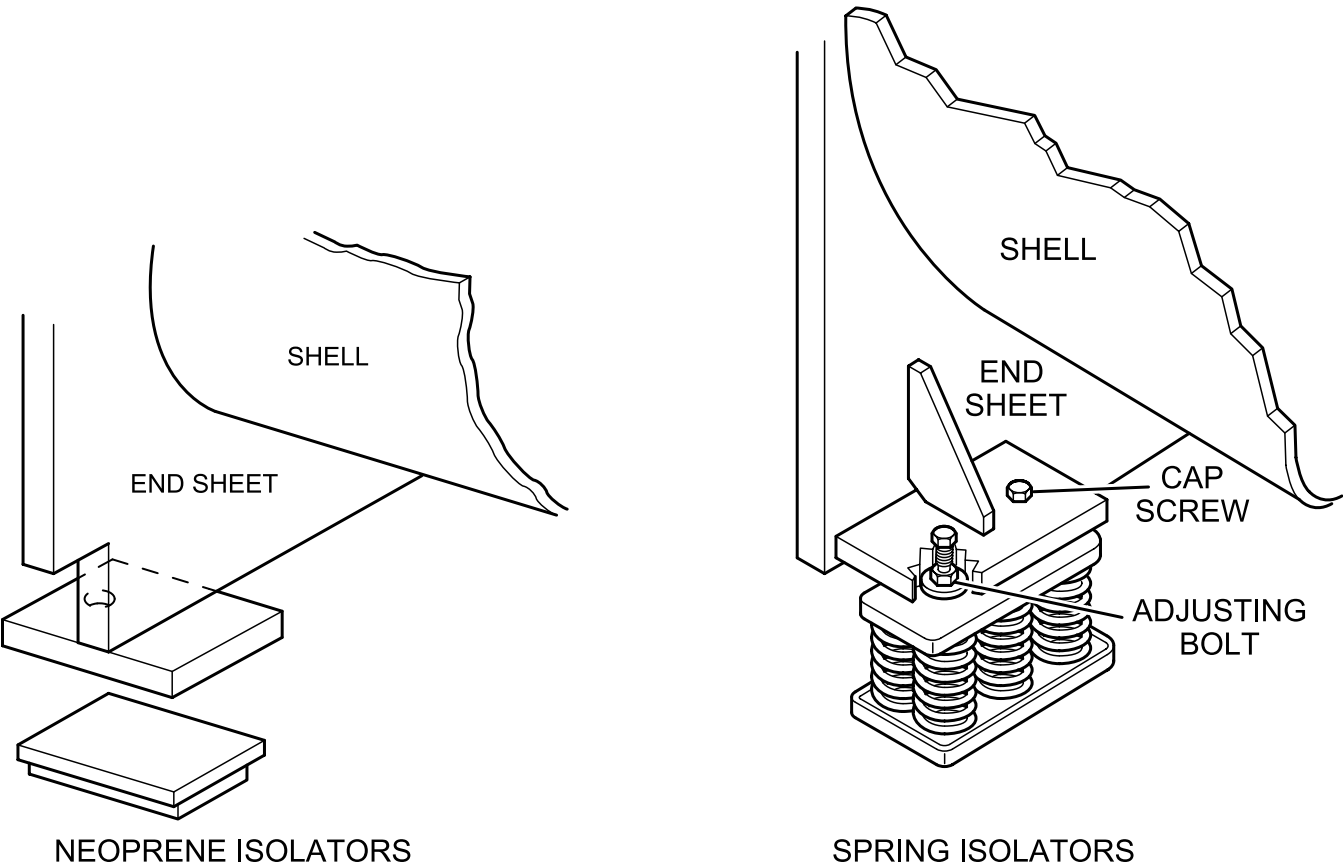


FIGURE 86 - NEOPRENE ISOLATORS / SPRING ISOLATORS

LD13057

INLET CHILLED WATER STRAINER COMPACT HEADS AND MARINE WATERBOXES

NOZZLE SIZE	PART NUMBER
14	029 12948 000
18	029 12949 000
20	029 12951 000

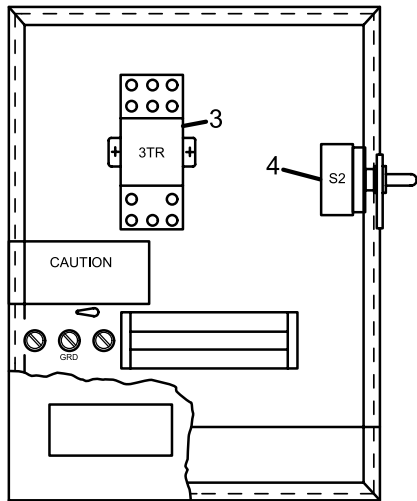
CURRENT TRANSFORMER KIT AND TRANSFORMER ONLY USE WITH FACTORY-MOUNTED MOTORS ONLY

MOTOR VOLTAGE	FLA	"CT" RATIO	PART NUMBER	
			TRANSFORMER KIT (INCLUDES TRANSFORMER)	TRANSFORMER ONLY
200/600	65-111	200:1	375 17422 701	025 21173 001
	112-224	350:1	375 17422 702	025 21173 002
	225-829	700:1	375 17422 703	025 21173 003
	830-1790	1400:1	375 17422 704	025 21173 004
2300-4160	11-37	200:1	375 17422 705	025 21173 001
	38-123	200:1	375 17422 705	025 21173 001
	124-264	350:1	375 17422 706	025 21173 002
	265-518	700:1	375 17422 707	025 21173 005
	519-1036	1400:1	375 17422 708	025 21173 011

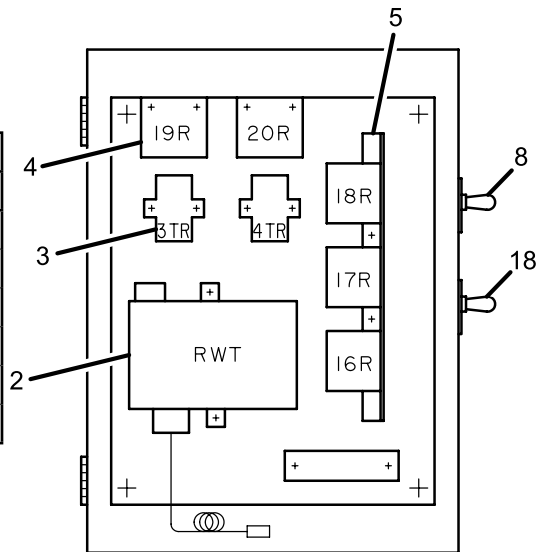
MULTIPLE UNIT SEQUENCE KIT CONTROLS

TWO UNIT			
ITEM	DESCRIPTION	PART NUMBER	QUANTITY
11	Controller, RWT	025-15154-000	1
3	Relay, Time Delay	024-13711-000	1
4	Switch, Toggle	024-14057-000	1

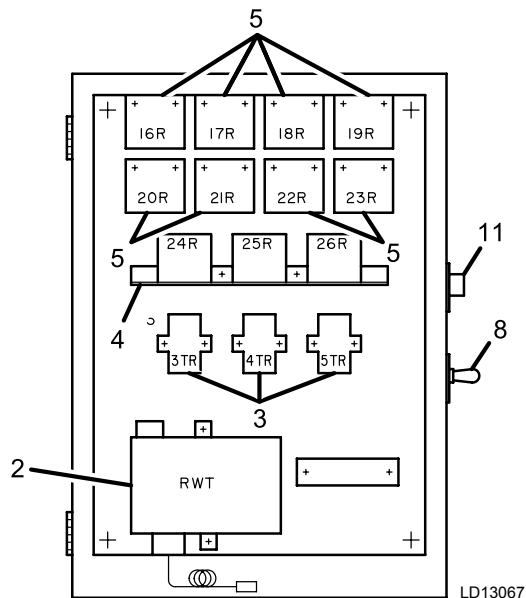
1 Not Shown. Remote Mounted.



THREE UNIT			
ITEM	DESCRIPTION	PART NUMBER	QUANTITY
2	Control, Temp 2 Stage	025-10215-000	1
3	Relay, TD 115V	024-30497-000	2
4	Relay, Control 120V Coil	024-14519-000	2
5	Relay Assy.	375-21706-000	1
8	Switch, Toggle 3 Position	024-17026-000	1
18	Switch, Toggle	024-11736-000	1



FOUR UNIT			
ITEM	DESCRIPTION	PART NUMBER	QUANTITY
2	Control, Temp. 3-Stage	025-10214-000	1
3	Relay, TD 115V	024-30497-000	3
4	Relay Assy.	375-21706-000	1
5	Relay, Control 120V Coil	024-14519-000	8
8	Switch, Toggle	024-11736-000	1
11	Switch, Rotary 4 Ckt 15A	024-20494-000	1



LD13067

MISCELLANEOUS AND ACCESSORIES

COMPOUNDS

DESCRIPTION	PART NUMBER	QUANTITY
Compound, Heat Conductive (for Thermometer Wells)	013 00898 000	4 oz.
Grease, POE	044 03199 000	1 lb.
Lub, Valve Stem	360 00125 000	2 oz.
Primer, Locquic Grade N	013 01753 000	1.75 oz.
Sealer, Gasket Eliminator	013 02827 000	300ml
Sealer, Grade AVV Loctite 086	013 01671 000	250ml
Sealer, Refrigerant Pipe	013 02894 000	250ml
Sealer, Removable Thread	013 03375 000	250ml

COMMON PIPING PARTS

DESCRIPTION	STEEL TUBING	STAINLESS STEEL TUBING	NUT	STEEL SLEEVE	STAINLESS STEEL SLEEVE
3/8"	003 00969 000	003 02407 000	023 18977 000	023 20760 000	023 17534 000
1/2"	003 00243 000	-	023 17541 000	023 19089 000	023 17542 000
3/4"	003 03518 000	003 02487 017	023 18286 000	023 18914 000	023 17536 000
1"	003 03515 000	-	023 18287 000	023 18911 000	023 17538 000

FLOW SWITCH CONTROL

DESCRIPTION	PART NUMBER
150 DWP	024 26116 000
300 DWP	024 12144 000

TEMPERATURE RECORDER

DESCRIPTION		PART NUMBER
HZ	NUMBER OF PENS	
60	1	025 09658 000
	2	025 09823 000
50	1	025 12650 000
	2	025 12330 000

DIFFERENTIAL PRESSURE CONTROL

DESCRIPTION	PART NUMBER
Control, Differential Pressure*	025 30919 000

*300 PSI Maximum Working Pressure

TOUCH-UP PAINTS - SPRAY CANS

DESCRIPTION	PART NUMBER
Caribbean Blue Enamel Black (Control Center)	013 01835 000 Purchase Locally

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APPENDIX A

Starting December 2010 changes have been implemented for the High Speed Thrust Bearing Assemblies used on the following compressors.

- K3 - YDHL-95
- K4 - YDHL-106
- J7 / K7 - YDHJ-119

IDENTIFYING COMPRESSORS UTILIZING UPDATED HIGH SPEED THRUST BEARINGS

Compressors manufactured with or updated to the new Thrust Bearing Assembly can be identified by a partially drilled 1/4" hole at 9 o'clock position on the out-board face of the Reverse High Speed Thrust Cover plate (see FIGURE 87 for additional details).

K3 AND K4 COMPRESSORS

The new Thrust Bearings for these models are not direct replacements for compressors manufactured using the legacy design bearings. Updating a K3 or K4 compressor to utilize the new thrust bearing design requires replacing both the forward and reverse thrust bearings, the thrust collar and installing a new rear high speed journal bearing.

To facilitate this modification a field replacement kit has been created for retrofitting the K3 and K4 compressors. The part number for this kit is 364-53001-000. The kit is supplied with all hardware needed to complete this replacement along with installation instructions and O-rings. Loctite 243 (part # 013-03375-000) used for securing bearing fasteners is not included with kit.

Individual Part Numbers for New Style K3 and K4 High Speed Thrust Bearings

The updated high speed thrust bearings part numbers used with the K3 and K4 compressors are listed below.

ITEM	ORIGINAL PART NUMBER	NEW PART NUMBER
HS Forward Thrust Brg	029-25063-000	029-25837-001
HS Thrust Collar	064-51780-000	064-52718-000
HS Reverse Thrust Brg	029-25062-000	029-24758-002
Rear HS Journal Brg	064-51781-000	064-52719-000

ITEM	ORIGINAL PART NUMBER	NEW PART NUMBER
Reverse Thrust Brg Cover O-ring	028-12258-000	
Internal O-rings for Reverse Thrust Brg Cover (qty 3)	028-12513-000	
Small Pipe Plugs used w/ Reverse Thrust Brg (qty 3)	023-24908 000	
O-rings for Small Pipe Plugs used w/ Reverse Thrust Brg (qty 3)	028-15846-000	
O-ring for Proximity Probe	028-12961-021	

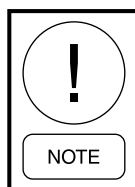
J7/K7 COMPRESSORS

The new high speed thrust bearing design for this model compressor is a direct replacement. When replacing thrust bearings for this compressor order the part numbers listed below:

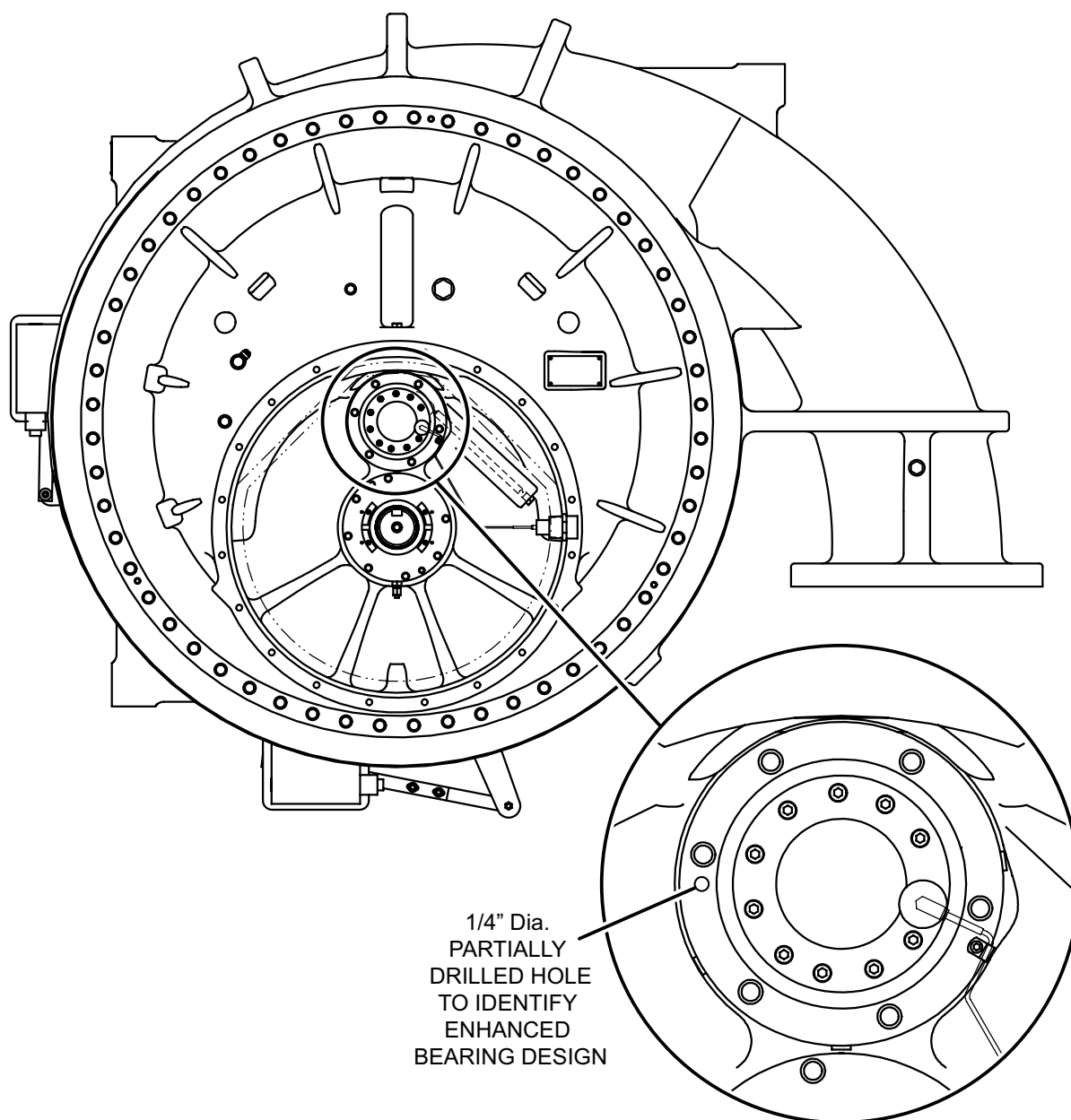
ITEM	ORIGINAL PART NUMBER	NEW PART NUMBER
HS Forward Thrust Brg	029-24759-000	029-24759-001
HS Thrust Collar	064-51493-000	
HS Reverse Thrust Brg	029-24758-000	029-24758-002
Reverse Thrust Brg Cover O-ring	028-12258-000	
Internal O-rings for Reverse Thrust Brg Cover (qty 3)	028-12513-000	
Small Pipe Plugs used w/ Reverse Thrust Brg (qty 3)	023-24908 000	
O-rings for Small Pipe Plugs used w/ Reverse Thrust Brg (qty 3)	028-15846-000	
O-ring for Proximity Probe	028-12961-021	

APPENDIX A (CONT'D)

For the J7/K7 compressor each item can be replaced individually (example: if replacing forward thrust bearing the original design reverse thrust bearing can be reused if not damaged).



It is recommended that when replacing a damaged original design bearing that both the forward and reverse thrust bearings are replaced with the new part numbers.



LD13057

FIGURE 87 - REVERSE HIGH SPEED THRUST COVER PLATE

NOTES



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