



## CENTRIFUGAL LIQUID CHILLERS

RENEWAL PARTS

Supersedes: 160.69-RP2 (316)

Form 160.69-RP3 (522)

### MODEL YD MOD C UNIT COMPONENTS



LD09115

**R-134A**

Issue Date:  
May 20, 2022



# 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:



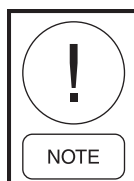
***Indicates a possible hazardous situation which will result in death or serious injury if proper care is not taken.***



***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 Knowledge Exchange website at <https://docs.johnsoncontrols.com/chillers/>.

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.

## REVISION NOTES

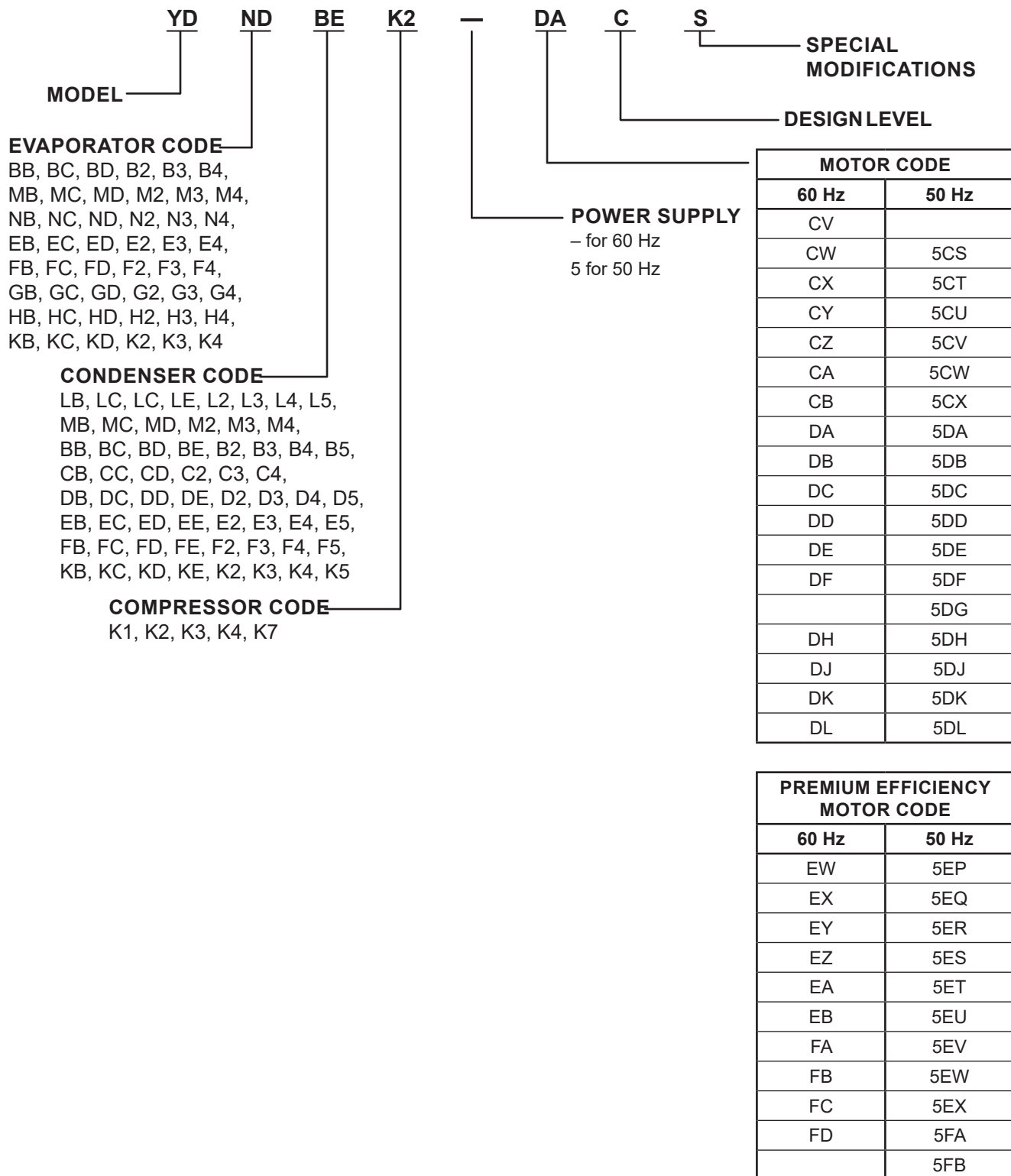
Revisions made to this document are indicated in the following table. These revisions are to technical information, and any other changes in spelling, grammar, or formatting are not included.

| AFFECTED PAGES | DESCRIPTION                                                                                                |
|----------------|------------------------------------------------------------------------------------------------------------|
| 112            | Added part number 022-12411-000 for steel valve where brass valve part number 022-10073-000 is also listed |
| 112            | Added part number 022-12412-000 for steel valve where brass valve part number 022-10074-000 is also listed |

## 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

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

## LIST OF FIGURES (CONT'D)

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

## LIST OF TABLES

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

## LIST OF TABLES (CONT'D)

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

## UNIT COMPONENTS

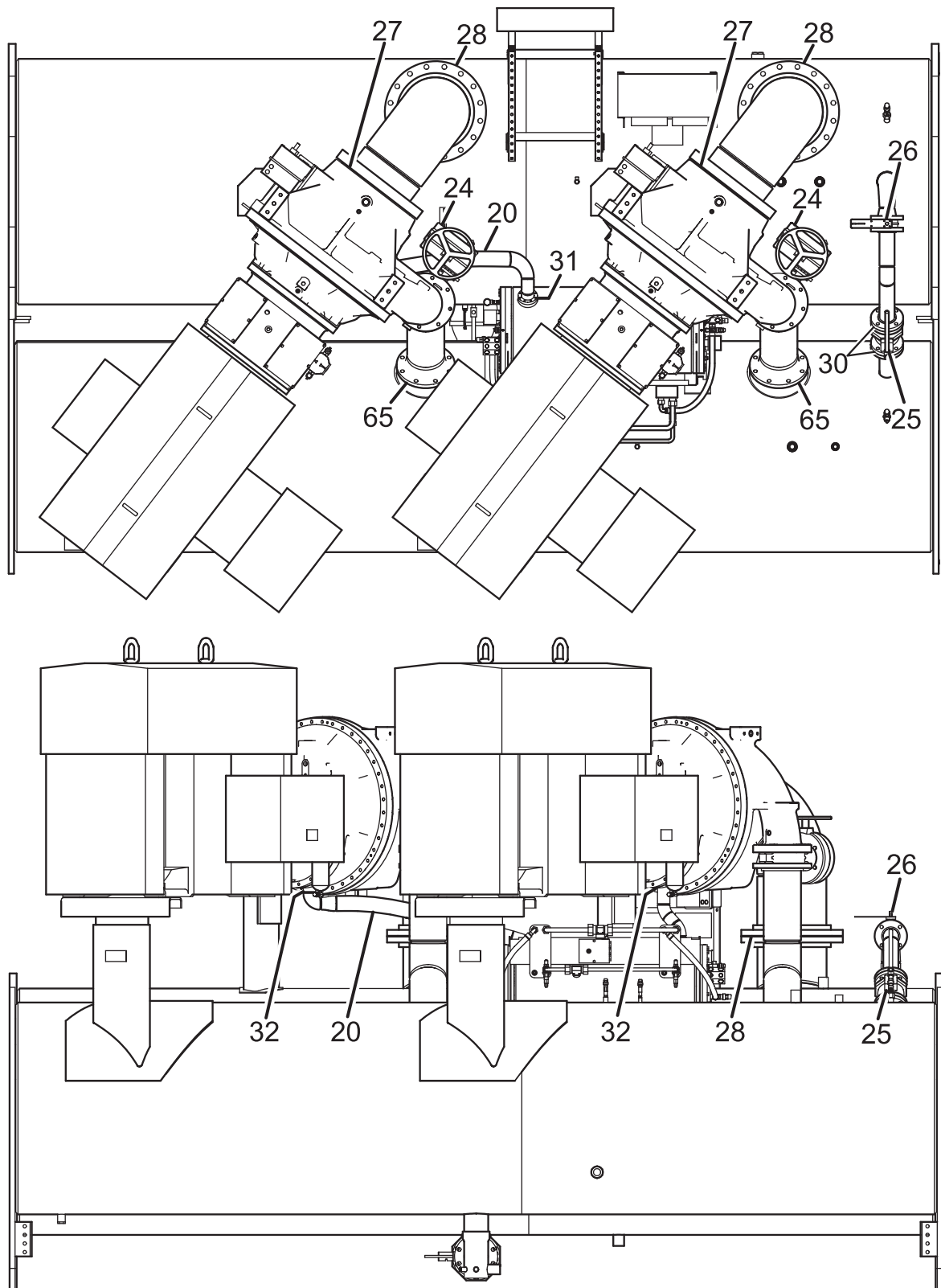
**TABLE 1 - YD UNIT COMPONENTS**

| ITEM       | DESCRIPTION                                                    | PART NUMBER       | QUANTITY | FIGURE |
|------------|----------------------------------------------------------------|-------------------|----------|--------|
| <b>20</b>  | Hose, Braided Flex Metal                                       | 026 41577 000     | 1        | 1      |
| <b>24</b>  | Valve, W/ ABZ Actuator 8" Assembly YD (Mod A)                  | 322 10665 000     | 2        | 1      |
| <b>24A</b> | Actuator, ABZ                                                  | 025 38770 000     | 1        | 1      |
| <b>24A</b> | Actuator, Bray                                                 | 025 38770 100     | 1        | 1      |
| <b>24B</b> | Valve, ABZ 8"                                                  | 022 10665 000     | 1        | 1      |
| <b>24</b>  | Valve, W/ ABZ Actuator 10" Assembly YD (Mod A)                 | 322 10696 000     | 2        | 1      |
| <b>24A</b> | Actuator, ABZ                                                  | 025 38770 000     | 1        | 1      |
| <b>24A</b> | Actuator, Bray                                                 | 025 38770 100     | 1        | 1      |
| <b>24B</b> | Valve, ABZ 10"                                                 | 022 10665 001     | 1        | 1      |
| <b>24</b>  | Valve, Norriseal W/ ABZ Actuator 8" Assembly YD (Early Mod B)  | 322 11445 000     | 2        | 1      |
| <b>24A</b> | Actuator, ABZ                                                  | 025 40721 000     | 1        | 1      |
| <b>24B</b> | Valve, Norriseal 8"                                            | 022 11445 001     | 1        | 1      |
| <b>24C</b> | O-ring, Neo                                                    | 028 12961 029     | 1        | 1      |
| <b>24D</b> | Norriseal, Rebuild Kit                                         | 022 11445 001 Kit | 1        | 1      |
| <b>24</b>  | Valve, Norriseal W/ ABZ Actuator 10" Assembly YD (Early Mod B) | 322 11446 000     | 2        | 1      |
| <b>24A</b> | Actuator, ABZ                                                  | 025 40721 000     | 1        | 1      |
| <b>24B</b> | Valve, Norriseal 10"                                           | 022 1146 001      | 1        | 1      |
| <b>24C</b> | O-ring, Neo                                                    | 028 12961 030     | 1        | 1      |
| <b>24D</b> | Norriseal, Rebuild Kit                                         | 022 11446 001 Kit | 1        | 1      |
| <b>24</b>  | Valve, Norriseal W/ ABZ Actuator 12" Assembly YD (Early Mod B) | 322 11447 000     | 2        | 1      |
| <b>24A</b> | Actuator, ABZ                                                  | 025 40722 000     | 1        | 1      |
| <b>24B</b> | Valve, Norriseal 12"                                           | 022 11447 001     | 1        | 1      |
| <b>24C</b> | O-ring, Neo                                                    | 028 12961 031     | 1        | 1      |
| <b>24D</b> | Norriseal, Rebuild Kit                                         | 022 11447 001 Kit | 1        | 1      |
| <b>24</b>  | Valve, Norriseal W/ Bray Actuator 8" YD (Mod B-C)              | 322 11721 000     | 2        | 1      |
| <b>24A</b> | Actuator, Bray                                                 | 025 42081 000     | 1        | 1      |
| <b>24B</b> | Valve, Norriseal 8"                                            | 022 11721 001     | 1        | 1      |
| <b>24C</b> | O-ring, Neo                                                    | 028 12961 029     | 1        | 1      |
| <b>24D</b> | Norriseal, Rebuild Kit                                         | 022 11445 001 Kit | 1        | 1      |
| <b>24</b>  | Valve, Norriseal W/ Bray Actuator 10" YD (Mod B-C)             | 322 11722 000     | 2        | 1      |
| <b>24A</b> | Actuator, Bray                                                 | 025 39625 100     | 1        | 1      |
| <b>24B</b> | Valve, Norriseal 10"                                           | 022 11722 001     | 1        | 1      |
| <b>24C</b> | O-ring, Neo                                                    | 028 12961 030     | 1        | 1      |
| <b>24D</b> | Norriseal, Rebuild Kit                                         | 022 11446 001 Kit | 1        | 1      |
| <b>24</b>  | Valve, Norriseal W/ Bray Actuator 12" YD (Mod B-C)             | 322 11723 000     | 2        | 1      |
| <b>24A</b> | Actuator, Bray                                                 | 025 39625 100     | 1        | 1      |
| <b>24B</b> | Valve, Norriseal 12"                                           | 022 11723 001     | 1        | 1      |
| <b>24C</b> | O-ring, Neo                                                    | 028 12961 031     | 1        | 1      |
| <b>24D</b> | Norriseal, Rebuild Kit                                         | 022 11447 001 Kit | 1        | 1      |
| <b>25</b>  | 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 |
|------------|-------------------------------------------------------------|---------------|----------|--------|
| <b>26</b>  | Valve, Butterfly Size 3"                                    | 022 10643 003 | 1        | 1      |
| <b>26A</b> | O-ring, Neo 4.1 .028 x .210                                 | 028 12961 025 | 2        | 1      |
| <b>26</b>  | Valve, Butterfly Size 4"                                    | 022 10643 004 | 1        | 1      |
| <b>26A</b> | O-ring, Neo 5.1 .037 x .275                                 | 028 12961 026 | 2        | 1      |
| <b>27</b>  | 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      |
| <b>28</b>  | 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      |
| <b>30</b>  | 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      |
| <b>31</b>  | O-Ring, Neo1 02.734id .139thk M                             | 028 13578 000 | 2        | 1      |
| <b>32</b>  | O-Ring, Neo1 03.100id .210thk M                             | 028 12597 000 | 2        | 1      |
| <b>65</b>  | 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**

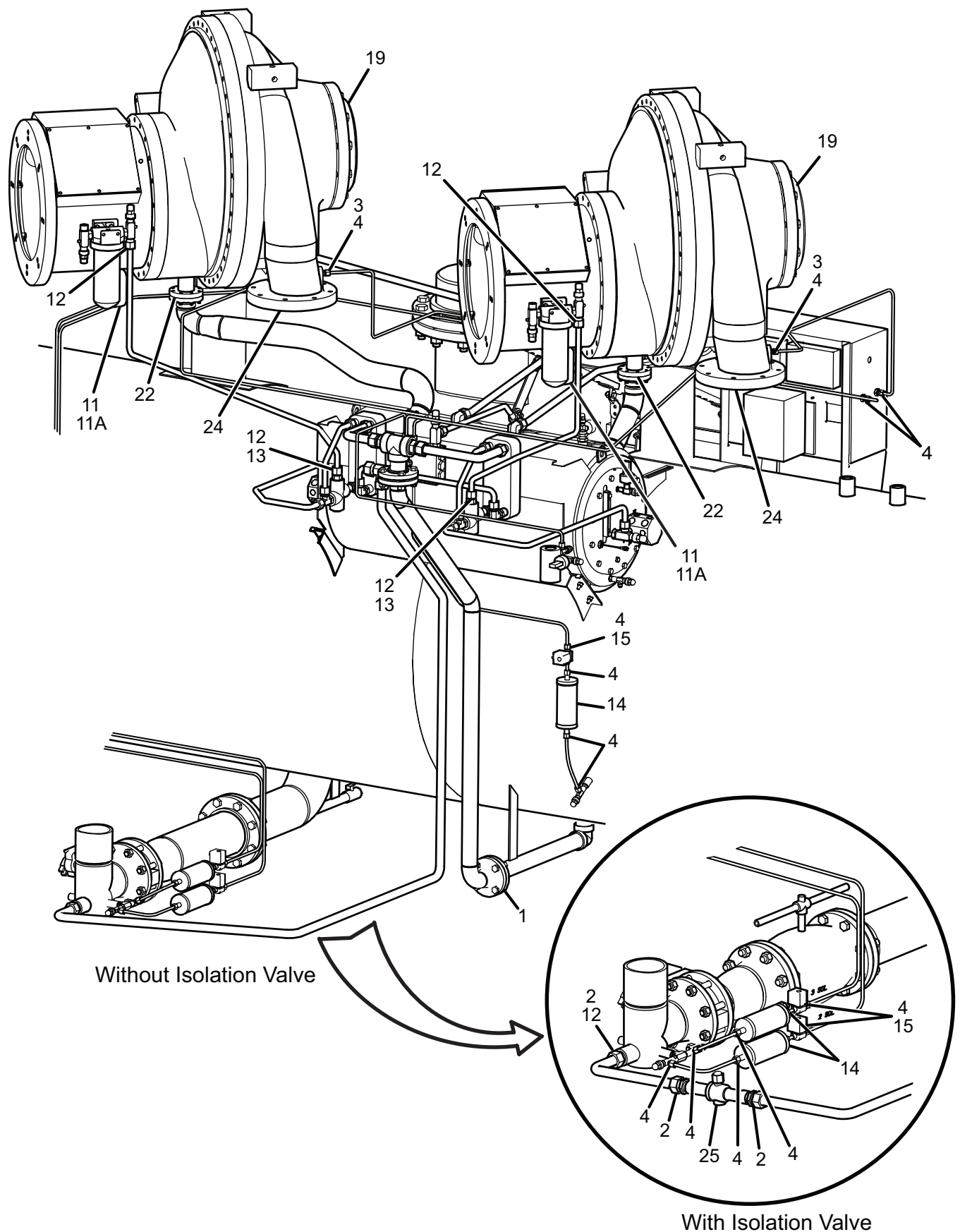
LD15088

## 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)**

LD09101

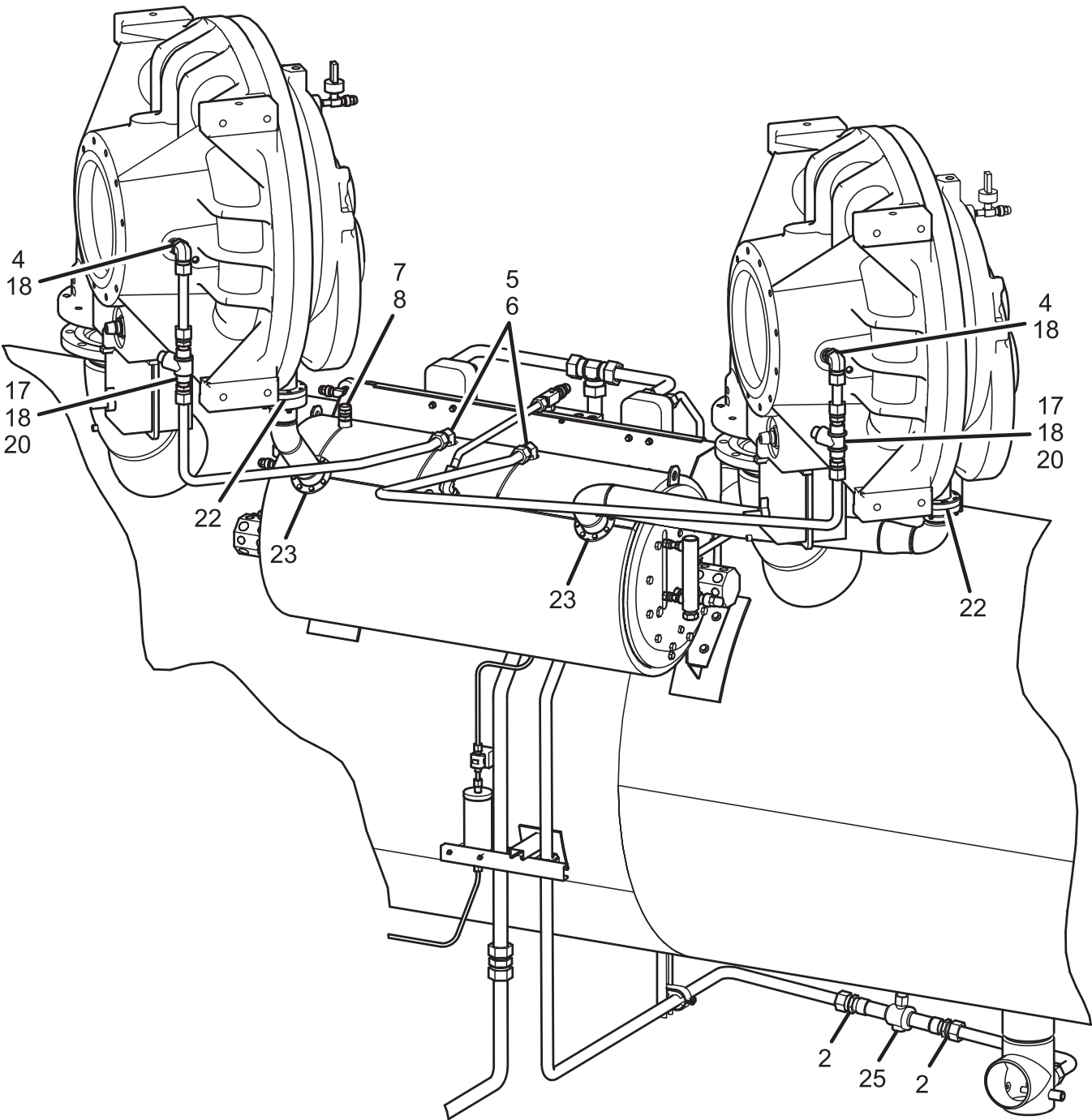
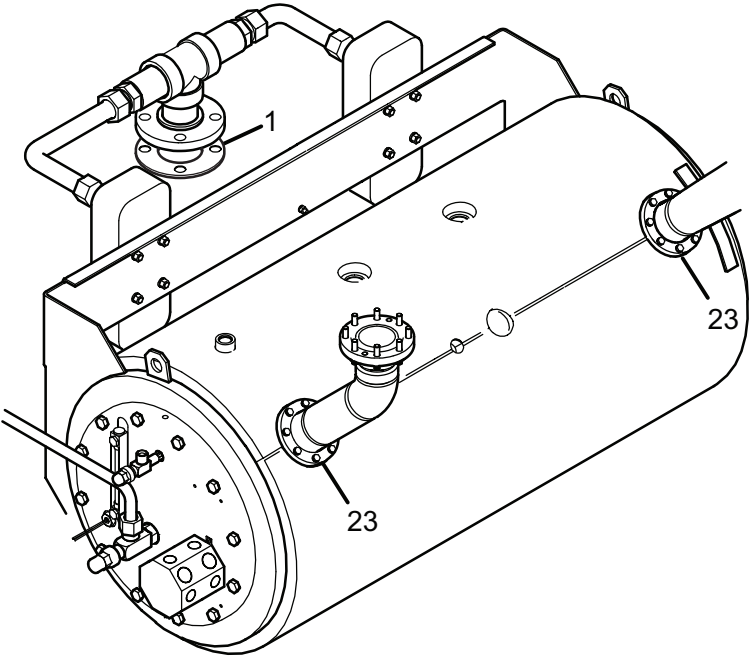
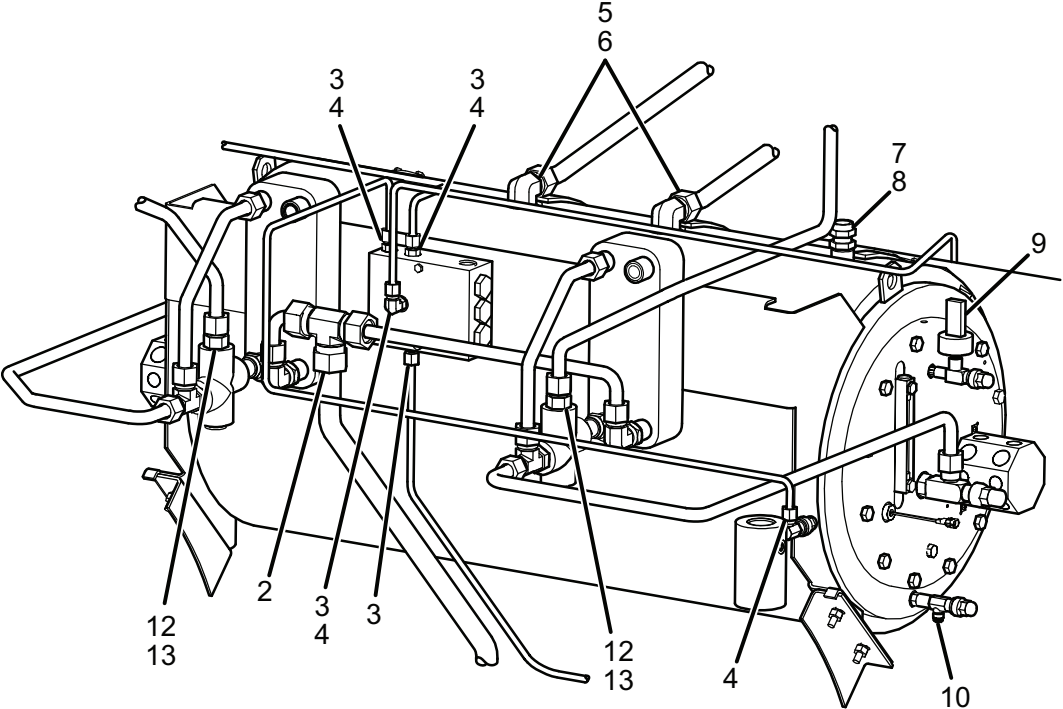


FIGURE 3 - YD UNIT PIPING (MOD A)

LD15185



**FIGURE 4 - YD UNIT PIPING (MOD A)**

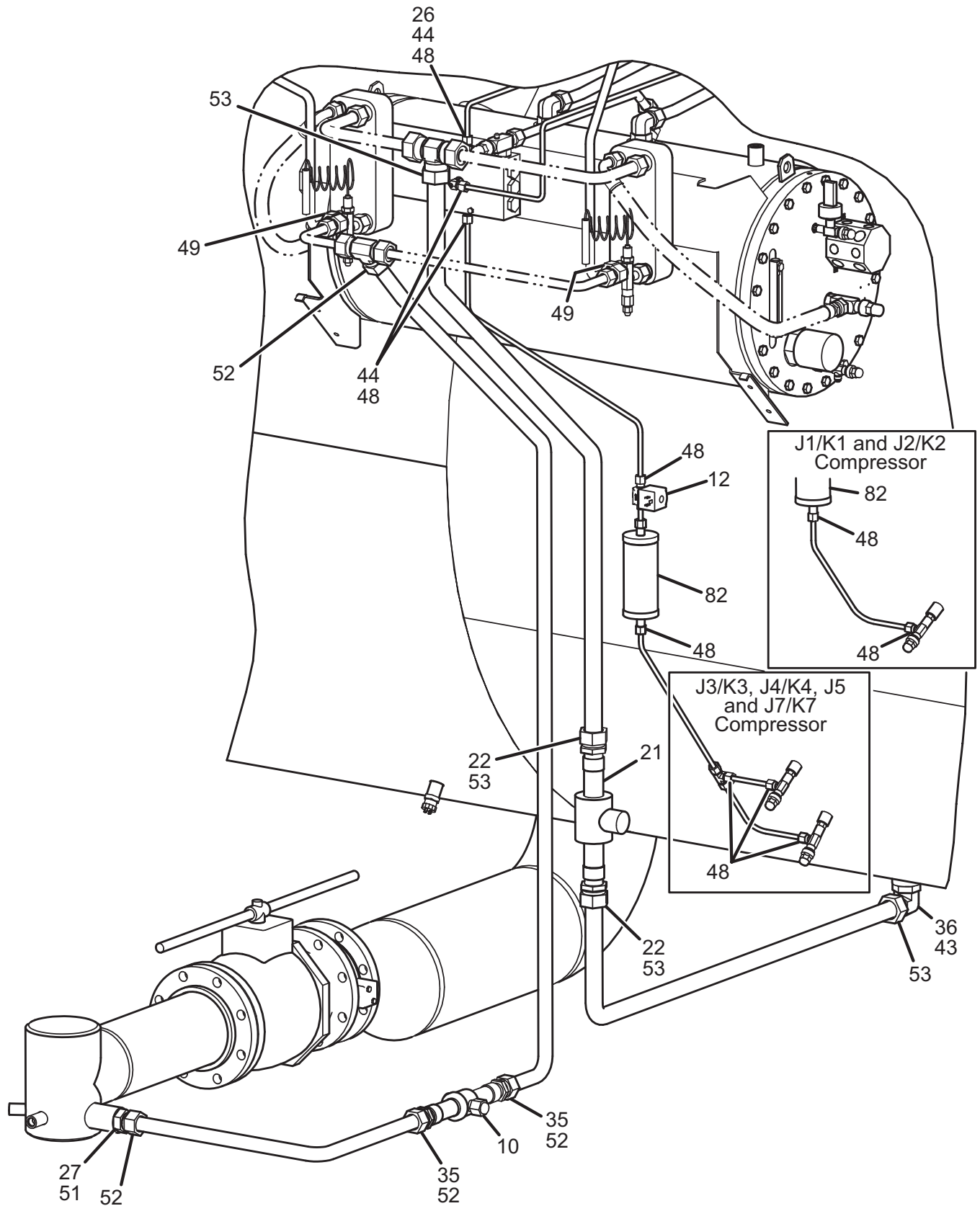
LD09101

## 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

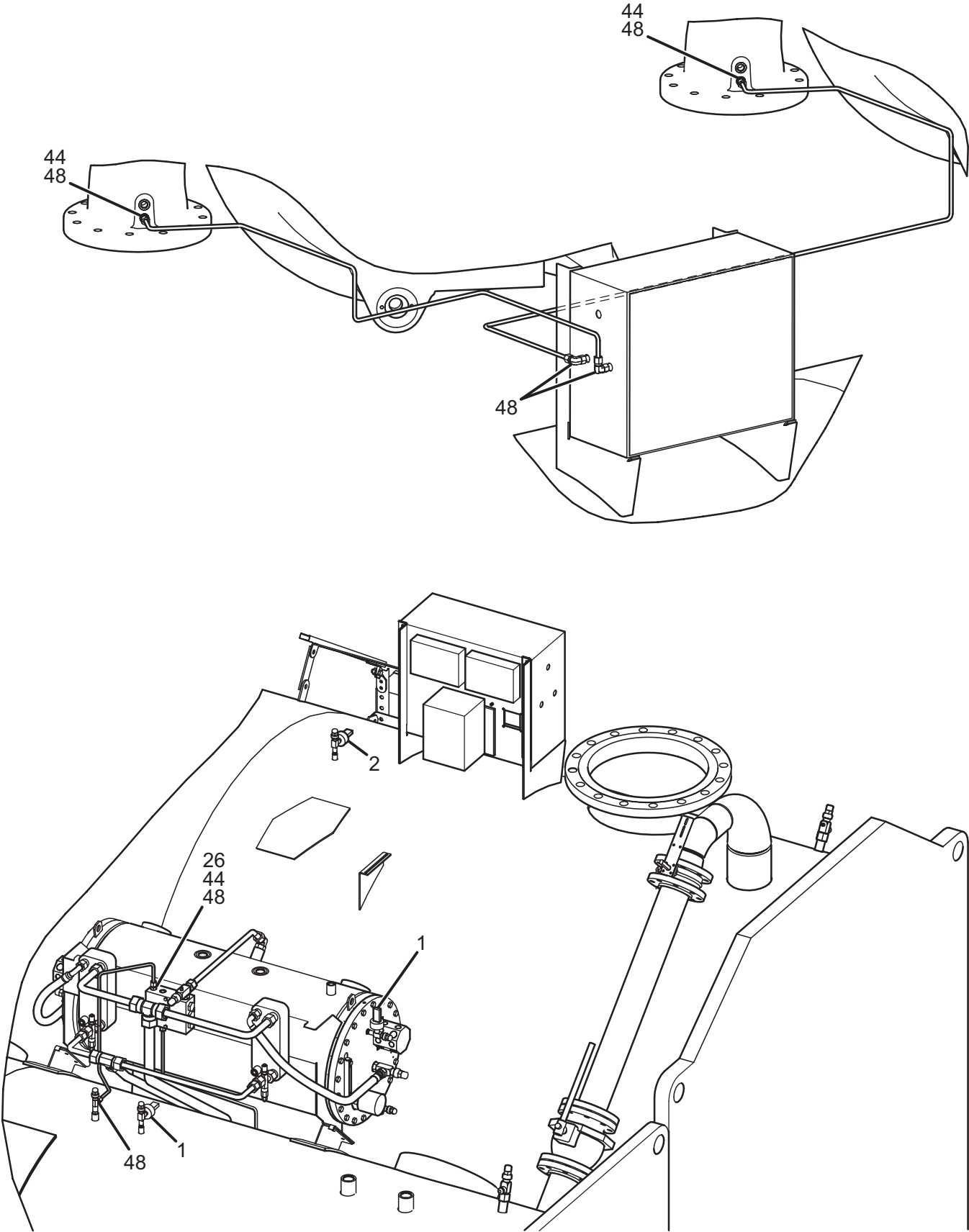
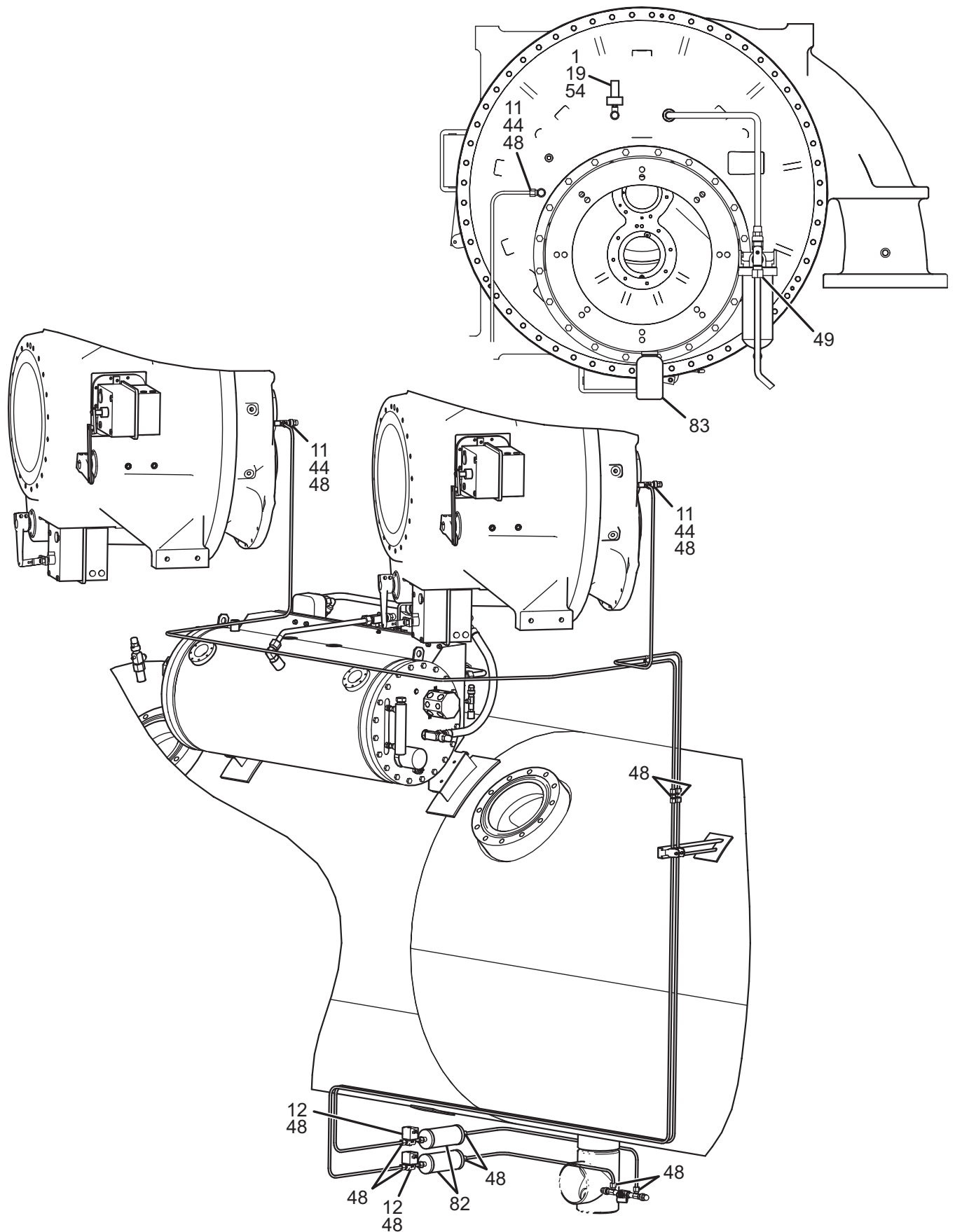


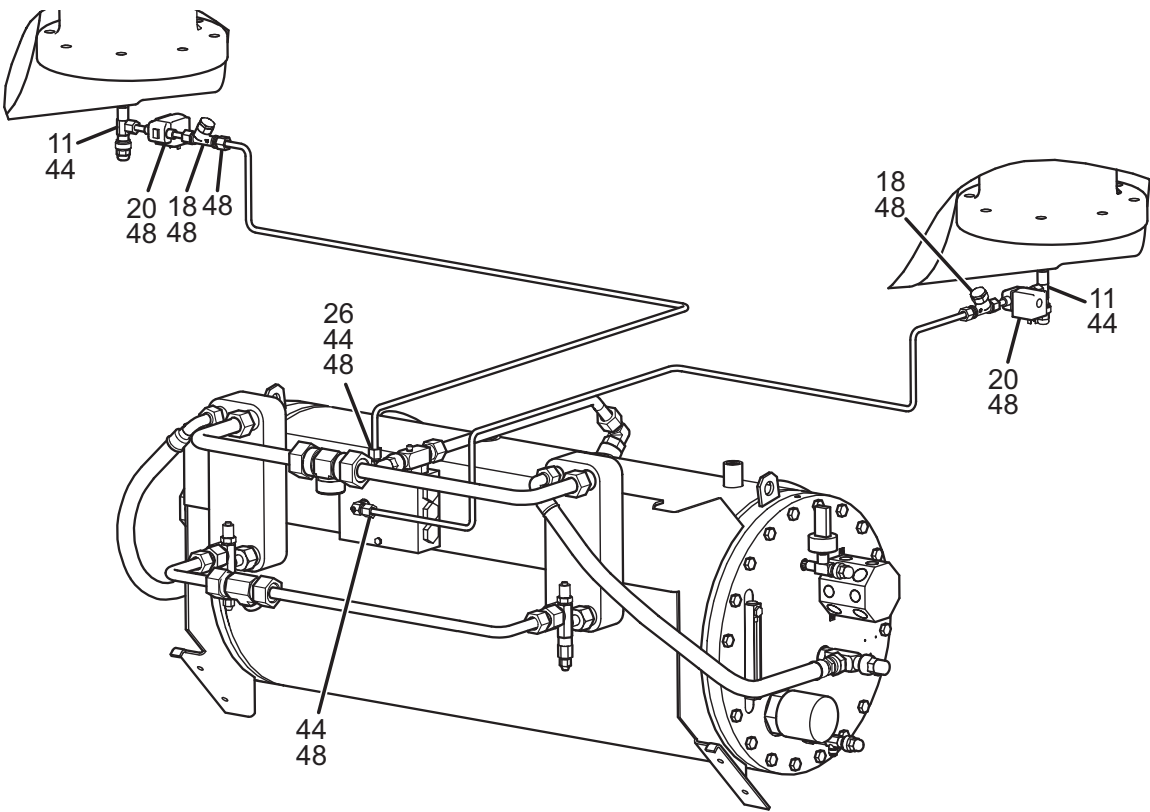
FIGURE 6 - YD UNIT PIPING (MOD B-C)

LD14556

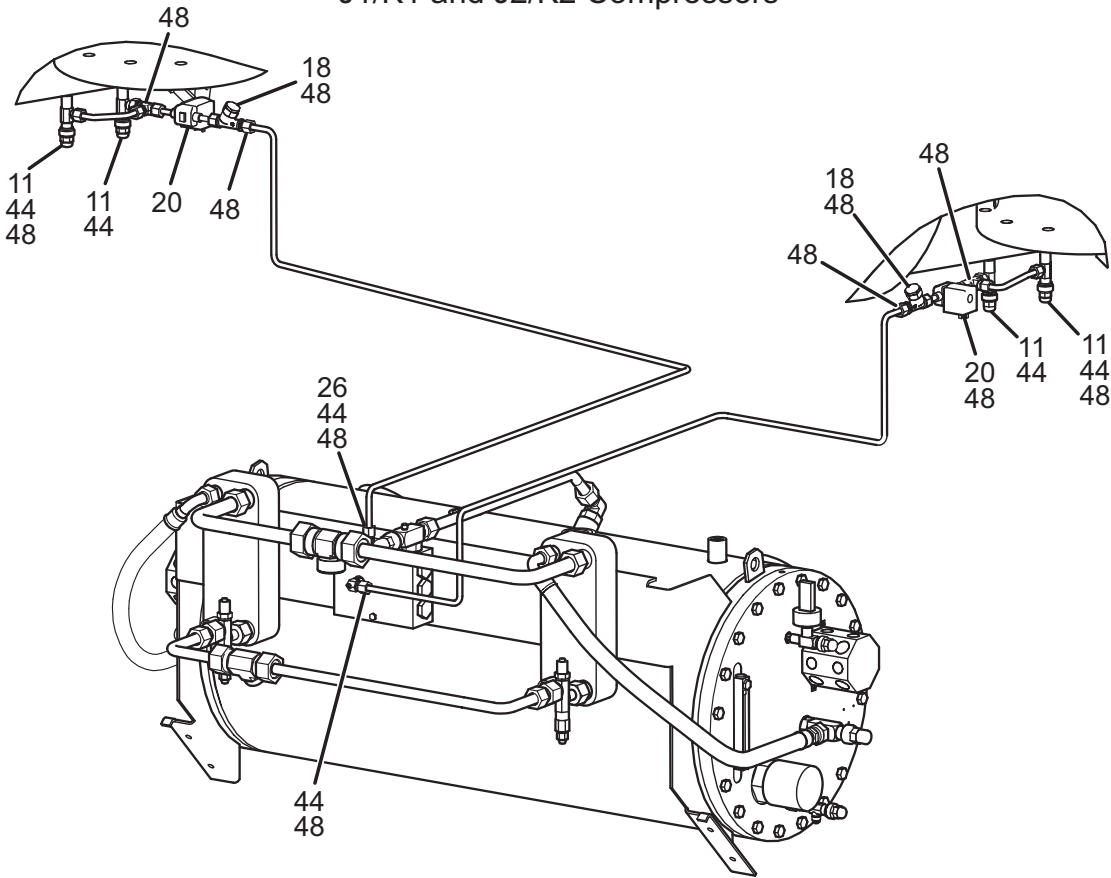


**FIGURE 7 - YD UNIT PIPING (MOD B-C)**

LD14558



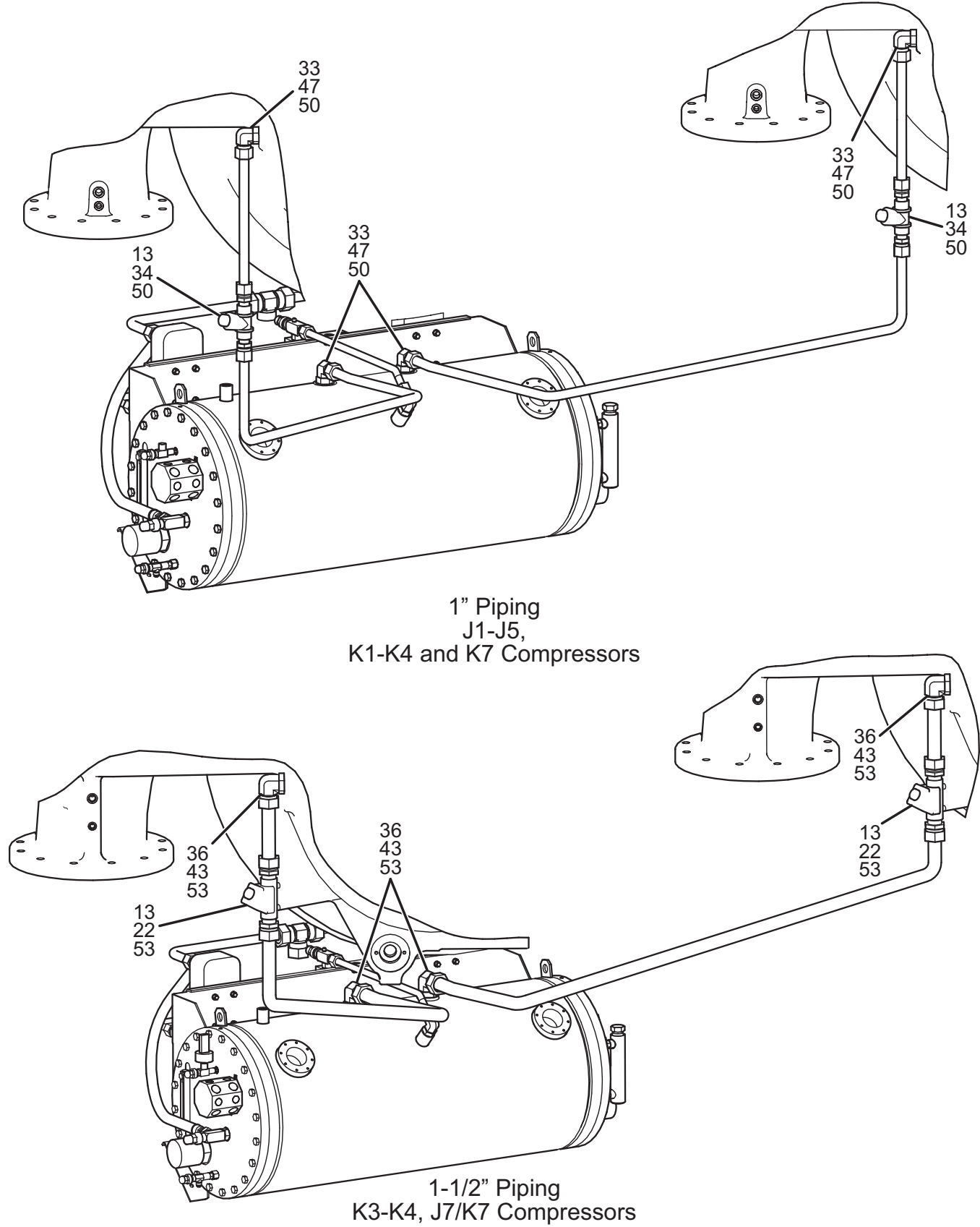
J1/K1 and J2/K2 Compressors



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

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

LD14562



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

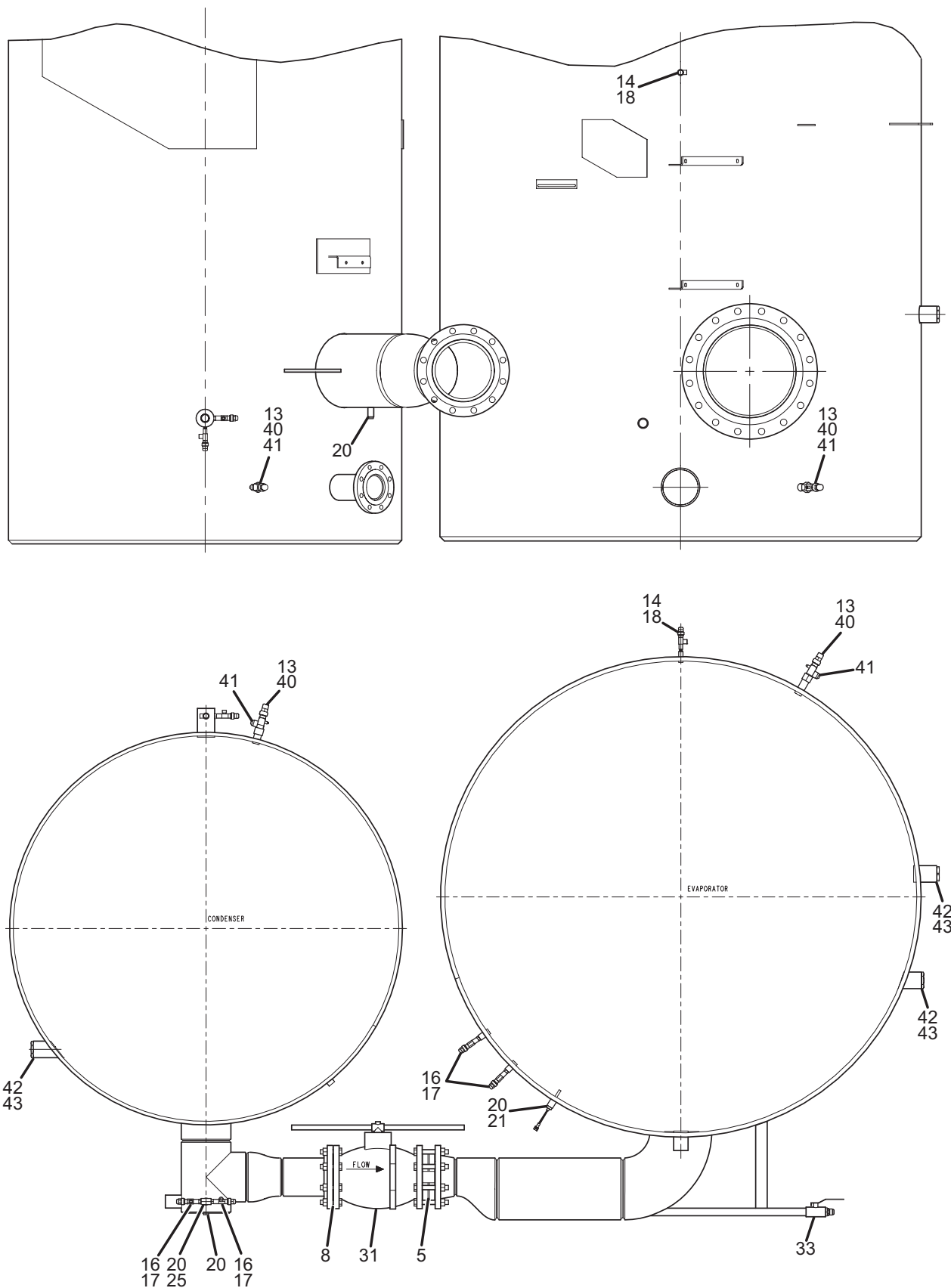
LD14565

## EVAPORATOR / CONDENSER

**TABLE 4 - YD EVAPORATOR / CONDENSER (MOD A)**

| ITEM      | DESCRIPTION                                 | PART<br>NUMBER | QUANTITY | FIGURE |
|-----------|---------------------------------------------|----------------|----------|--------|
| <b>5</b>  | 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     |
| <b>8</b>  | Gasket, Ansi 6-150#                         | 028 15075 112  | 2        | 10     |
| <b>13</b> | Valve, Stop Ang Vertical                    | 022 09573 000  | 2        | 10     |
| <b>14</b> | Valve, Stop Ang Vertical                    | 022 09577 000  | 2        | 10     |
| <b>16</b> | Valve, Stop Ang Vertical                    | 022 10054 000  | 2        | 10     |
| <b>17</b> | O-Ring, Neo1 00.468id .078thk M             | 028 12961 003  | 2        | 10     |
| <b>18</b> | O-Ring, Neo1 00.351id .072thk M             | 028 12961 001  | 2        | 10     |
| <b>20</b> | O-Ring, Neo1 00.644id .087thk M             | 028 12961 004  | 4        | 10     |
| <b>21</b> | Sensor, Temp 3000 Ohms At 25deg             | 025 34159 000  | 1        | 10     |
| <b>25</b> | Tee, Straight Thread Branch                 | 023 20849 000  | 1        | 10     |
| <b>31</b> | Valve, Ball 6" Flanged                      | 022 10609 000  | 1        | 10     |
| <b>33</b> | Valve, Ball 1 Npti X 1 Npti:                | 022 06873 000  | 1        | 10     |
| <b>40</b> | Gasket, Seal 1 Od X 7/8 Id X                | 028 04836 000  | 2        | 10     |
| <b>41</b> | Gasket, Fla 3/4 Od Tube                     | 028 09211 000  | 2        | 10     |
| <b>42</b> | O-Ring, Neo 2.090id .118 Thk                | 028 12961 036  | 2        | 10     |
| <b>43</b> | 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

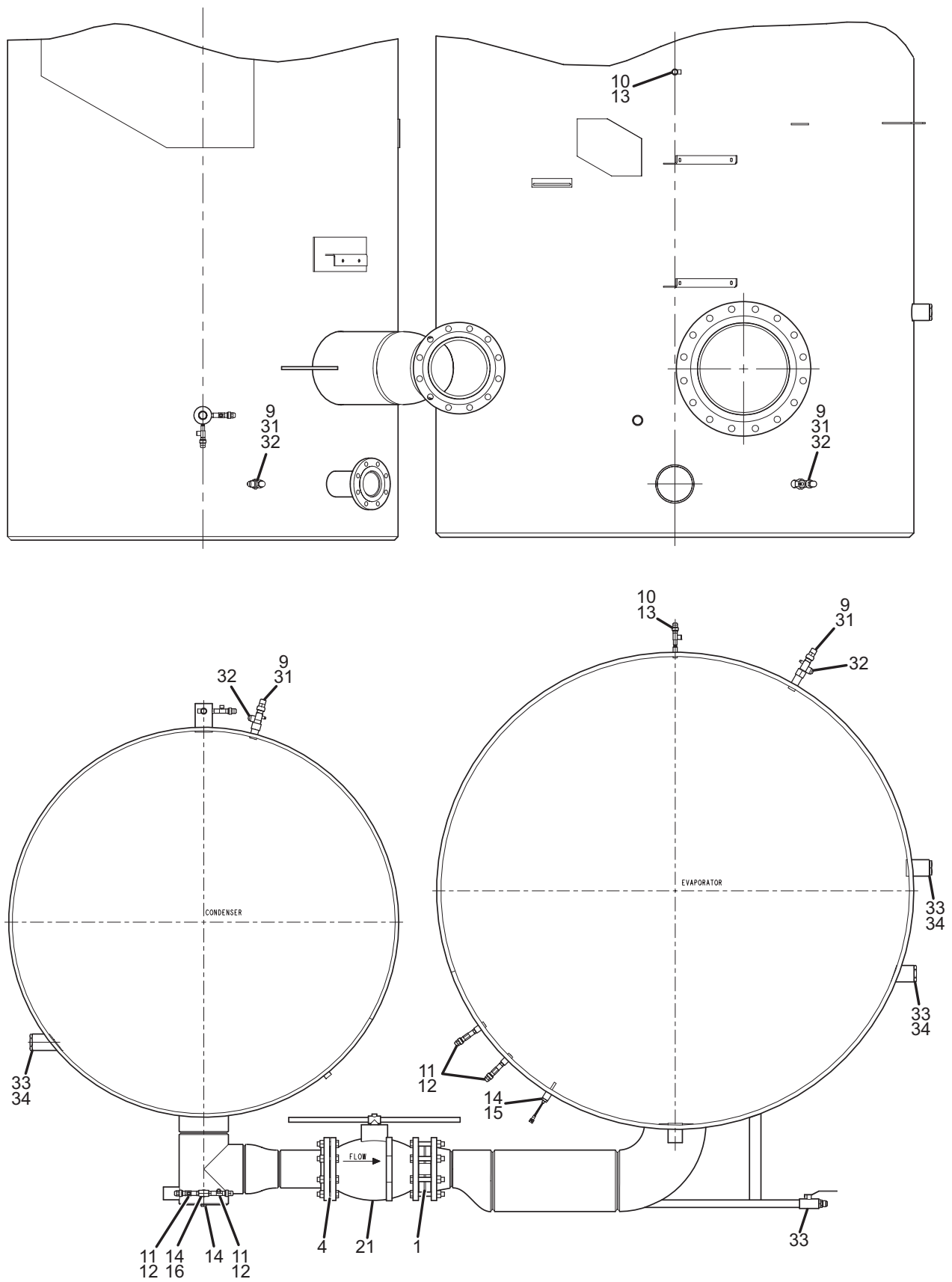
**FIGURE 10 - YD EVAPORATOR / CONDENSER (MOD A)**

LD15196

**TABLE 5 - YD EVAPORATOR / CONDENSER (MOD B)**

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

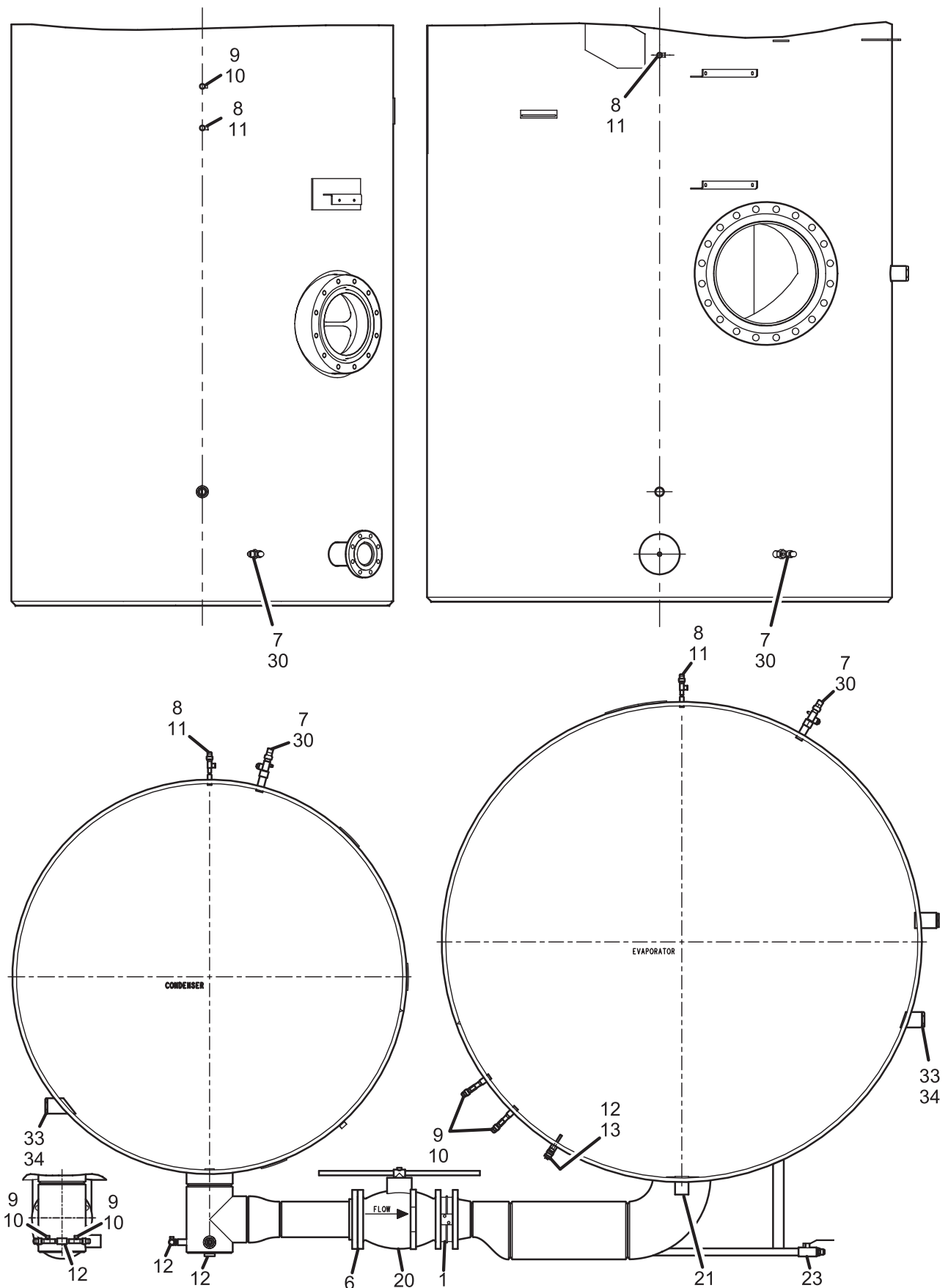
**FIGURE 11 - YD EVAPORATOR / CONDENSER (MOD B)**

LD15197

**TABLE 6 - YD EVAPORATOR / CONDENSER (MOD C)**

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

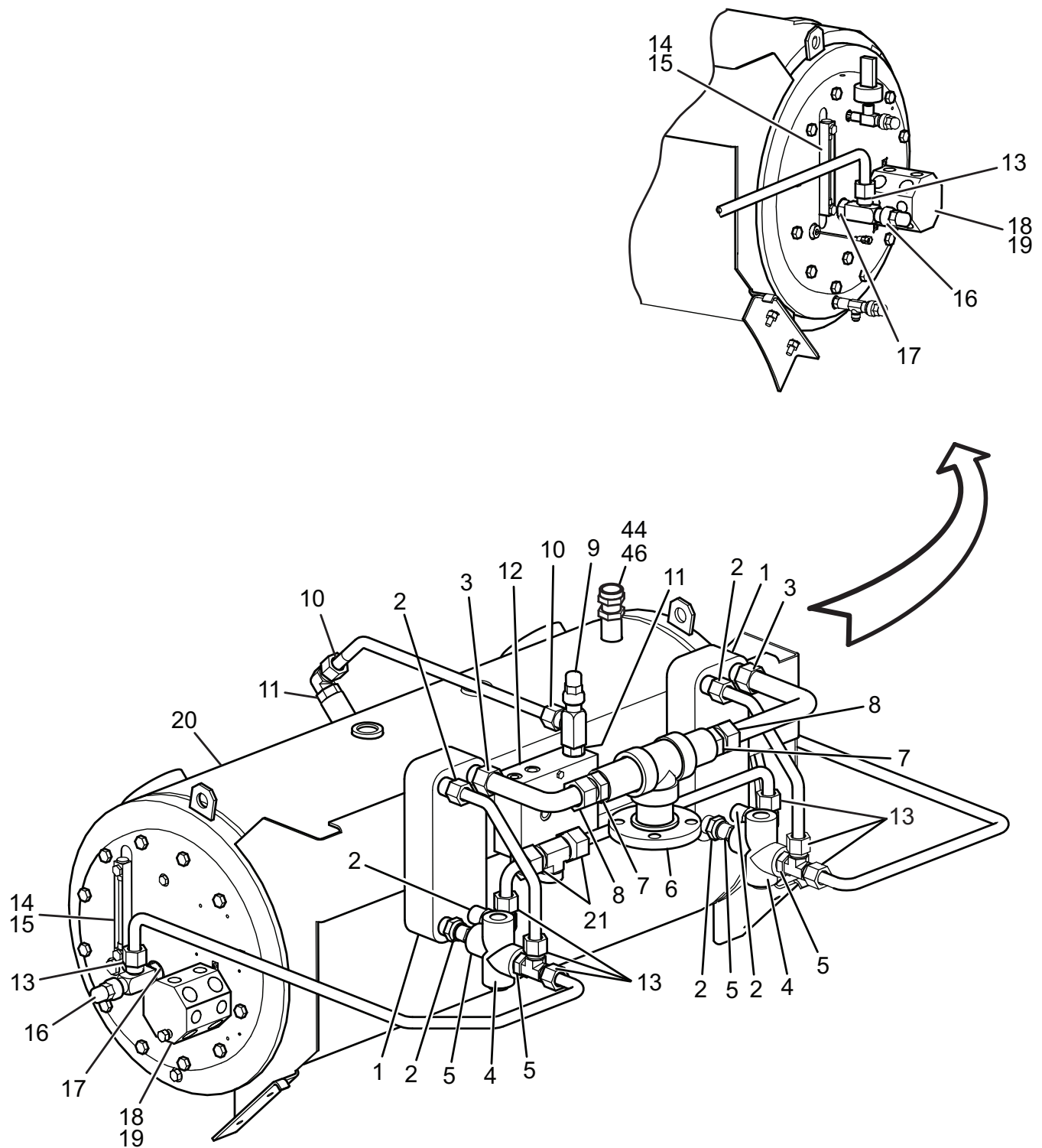
LD15186

## 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

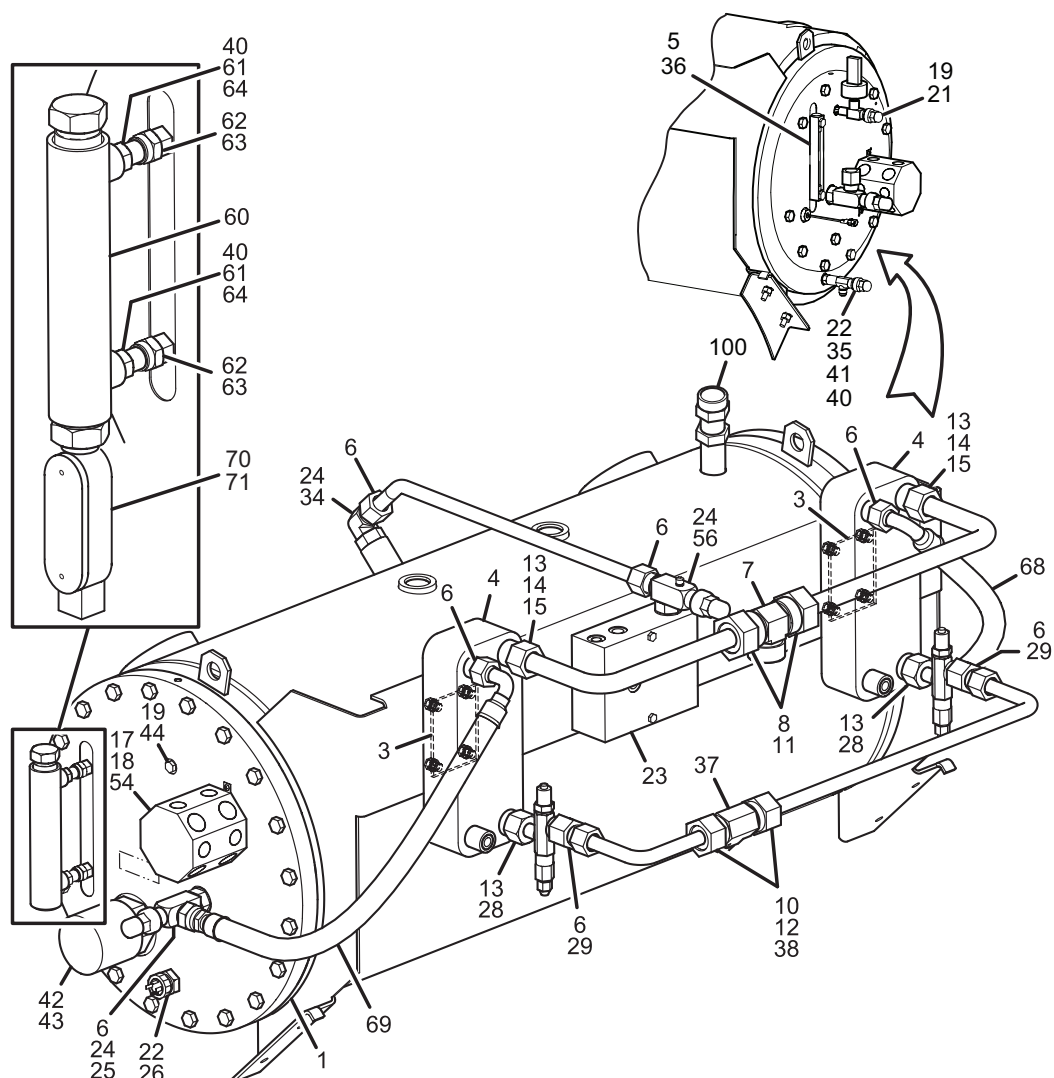
**TABLE 8 - YD OIL PUMP HOUSING (MOD B-C)**

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

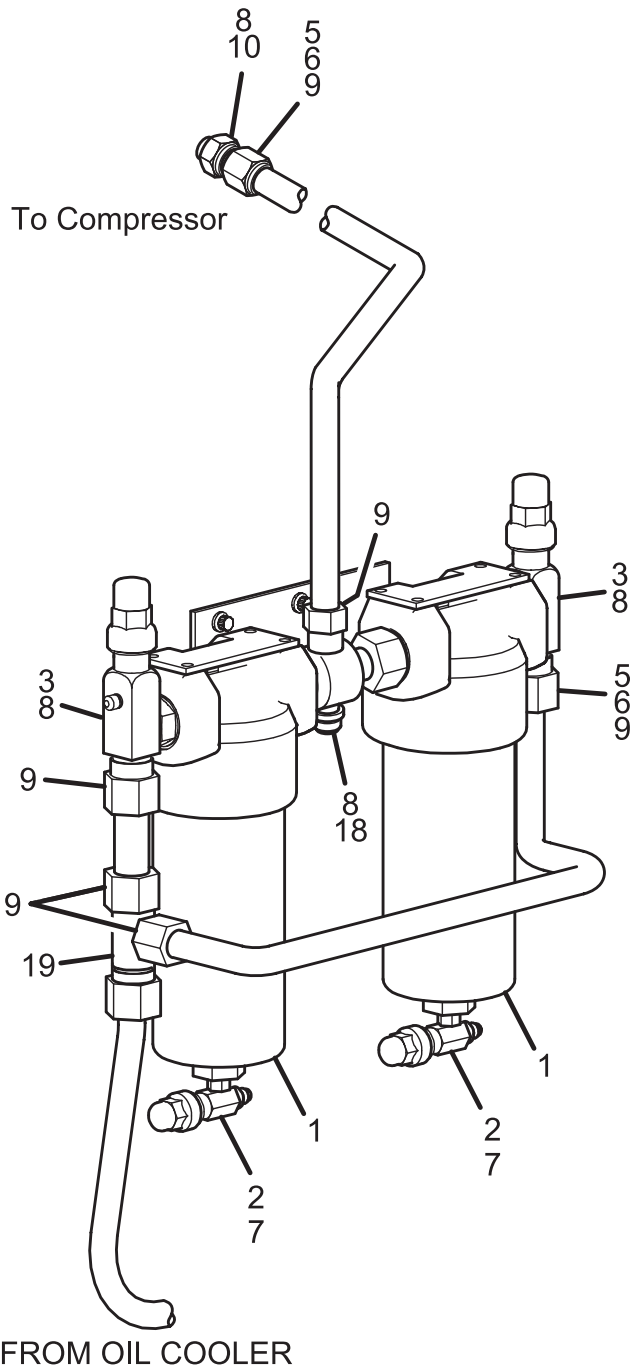
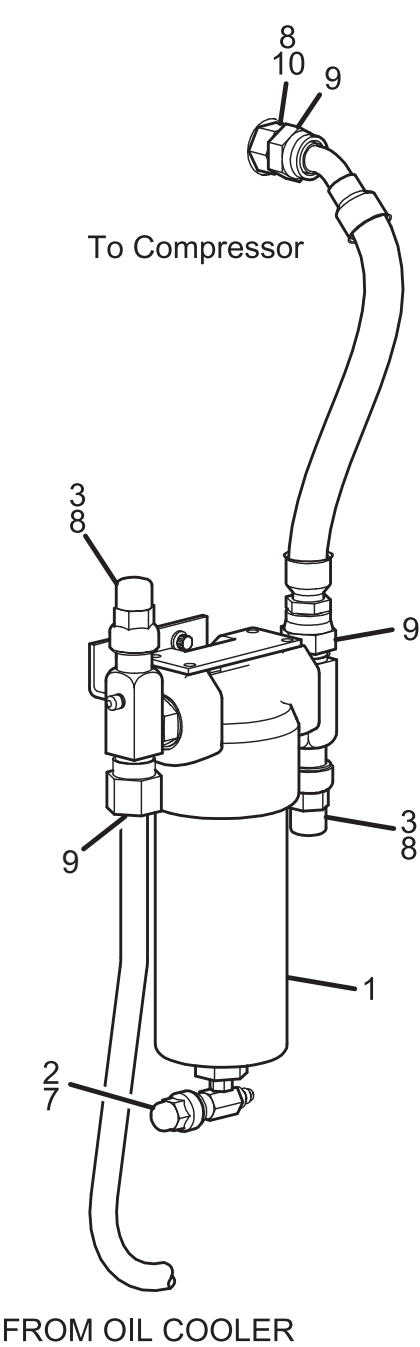
LD09100

## OIL FILTER

**TABLE 9 - OIL FILTER ARRANGEMENT**

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

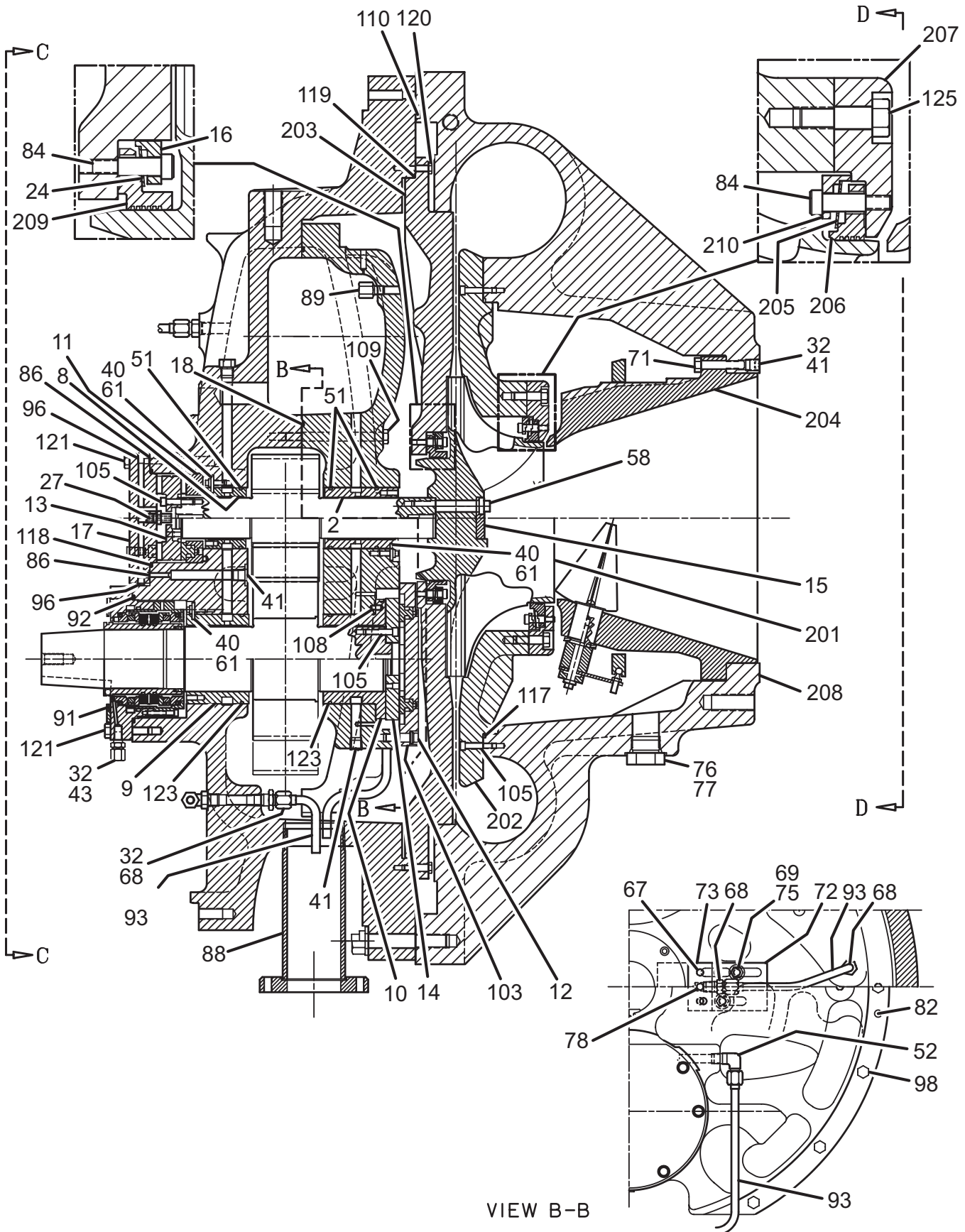
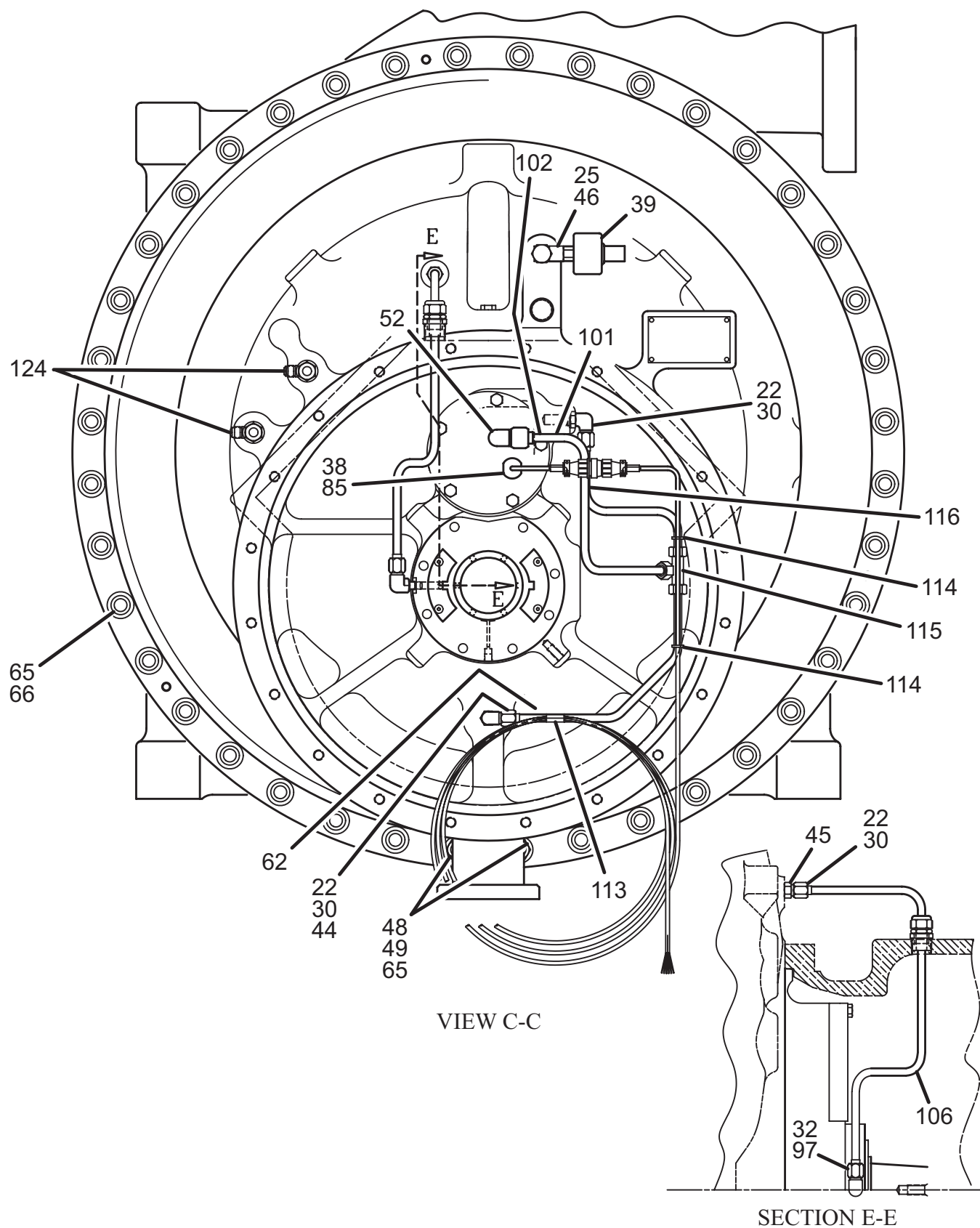


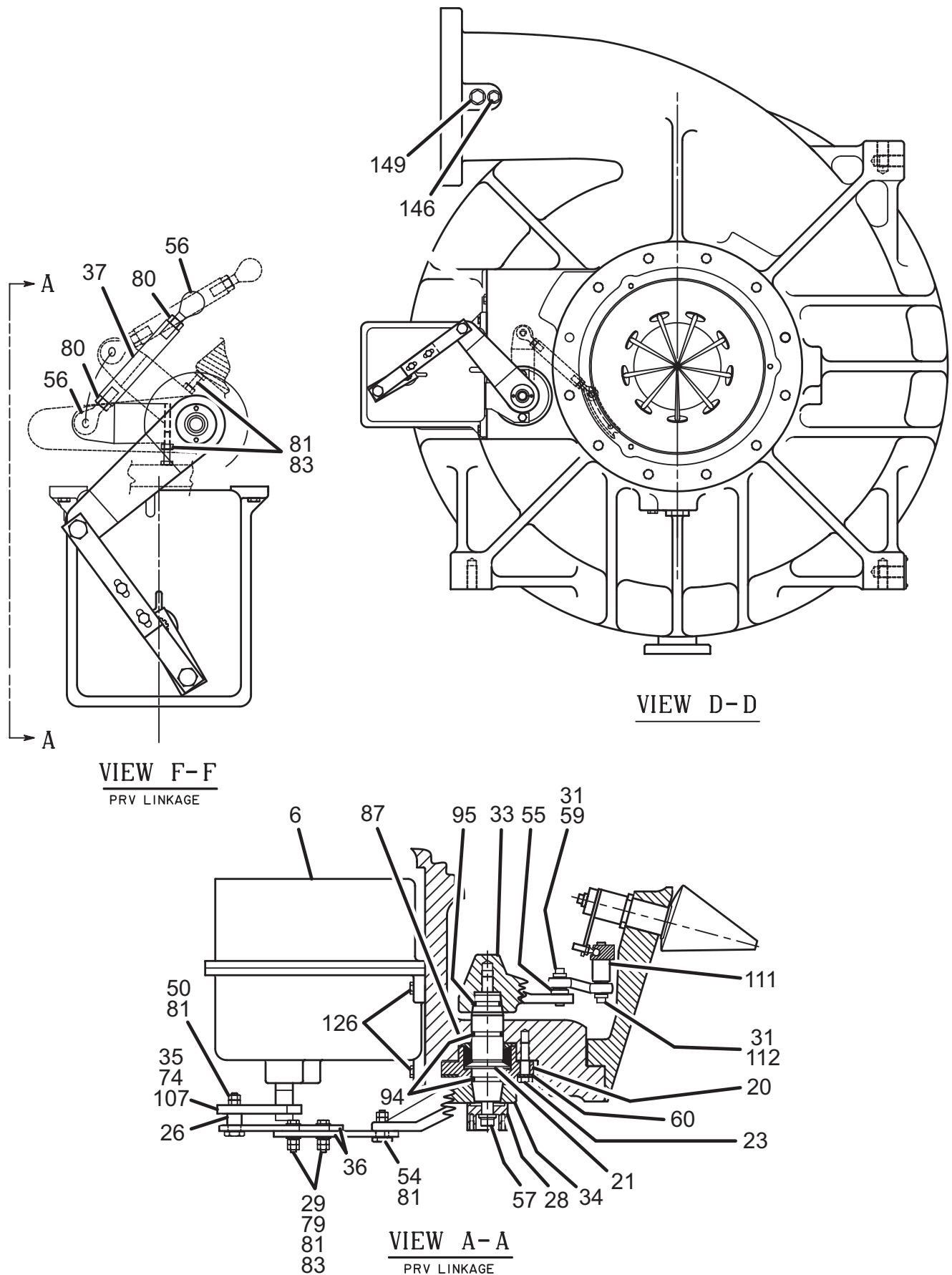
FIGURE 16 - YD COMPRESSOR COMPONENTS (J1/J2)

LD12072



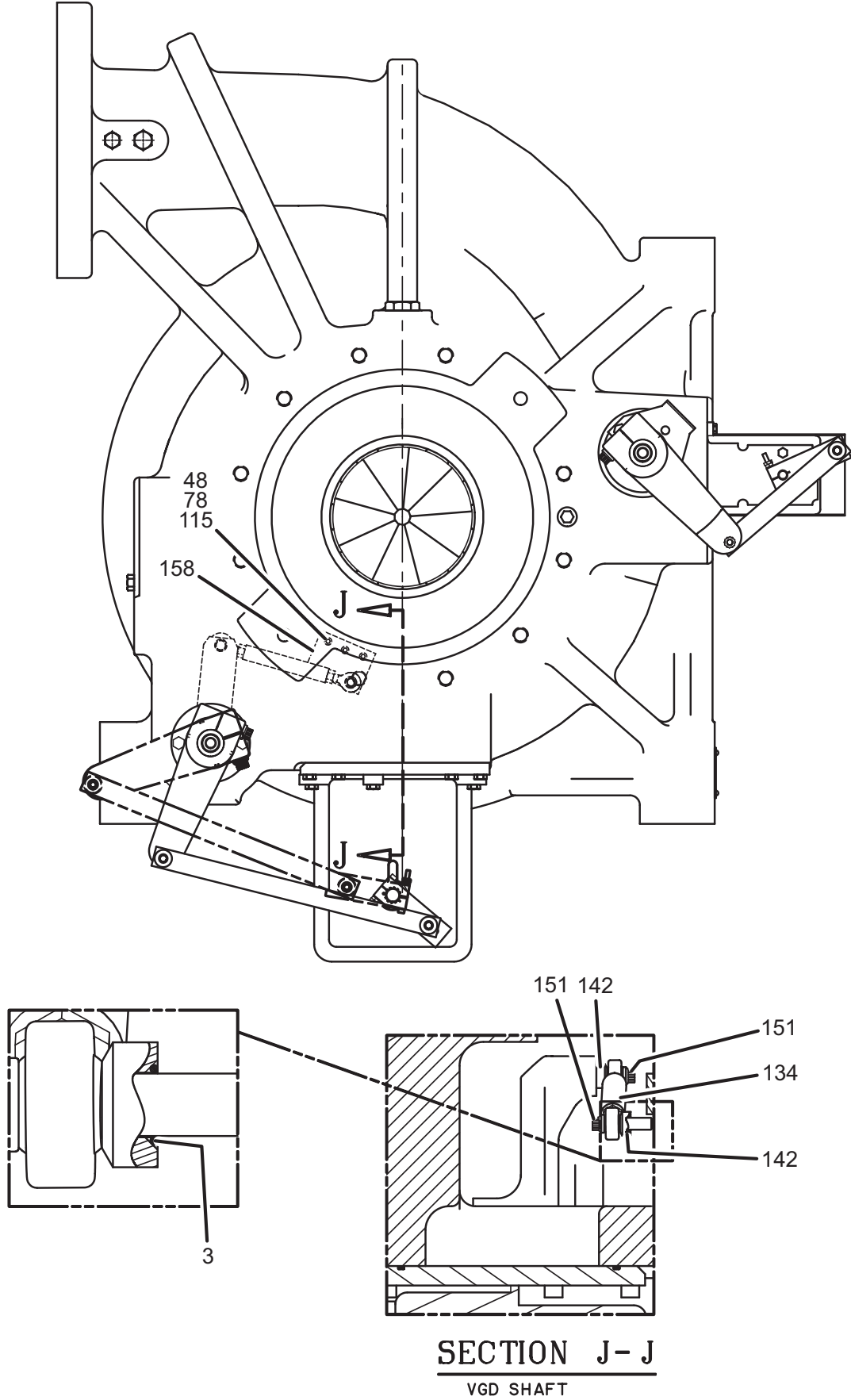
**FIGURE 17 - YD COMPRESSOR COMPONENTS (J1/J2)**

LD12073



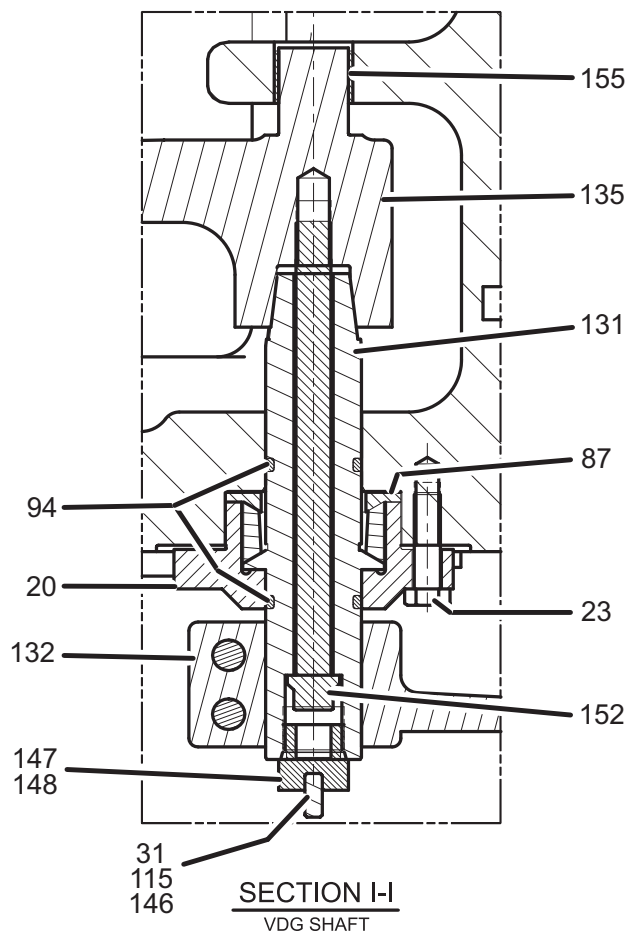
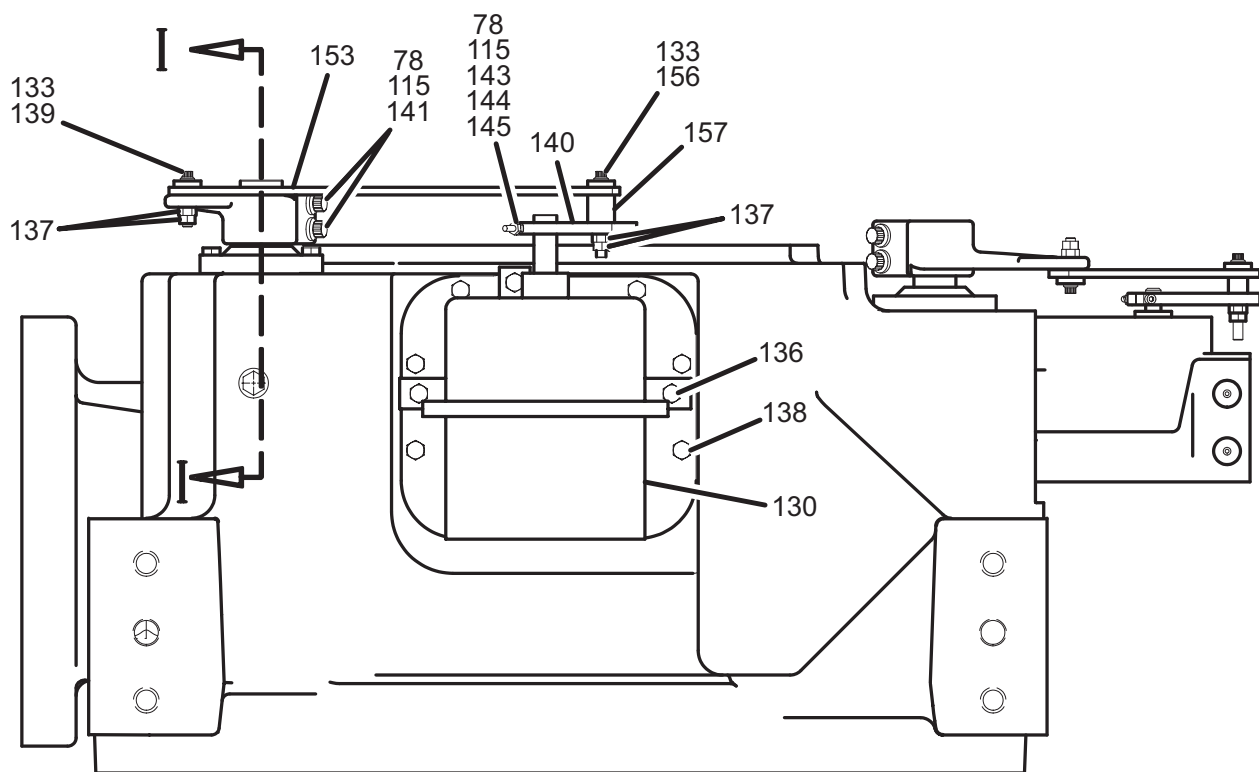
**FIGURE 18 - YD COMPRESSOR COMPONENTS (J1/J2)**

LD12074



**FIGURE 19 - YD COMPRESSOR COMPONENTS (J1/J2)**

LD10710



**FIGURE 20 - YD COMPRESSOR COMPONENTS (J1/J2)**

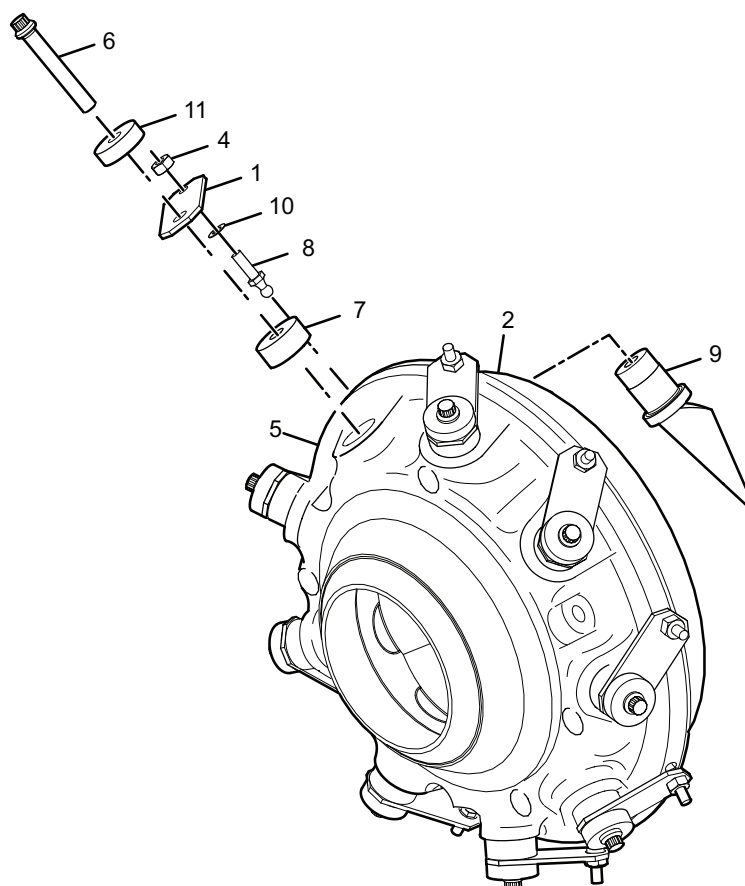
LD12074

## 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)**

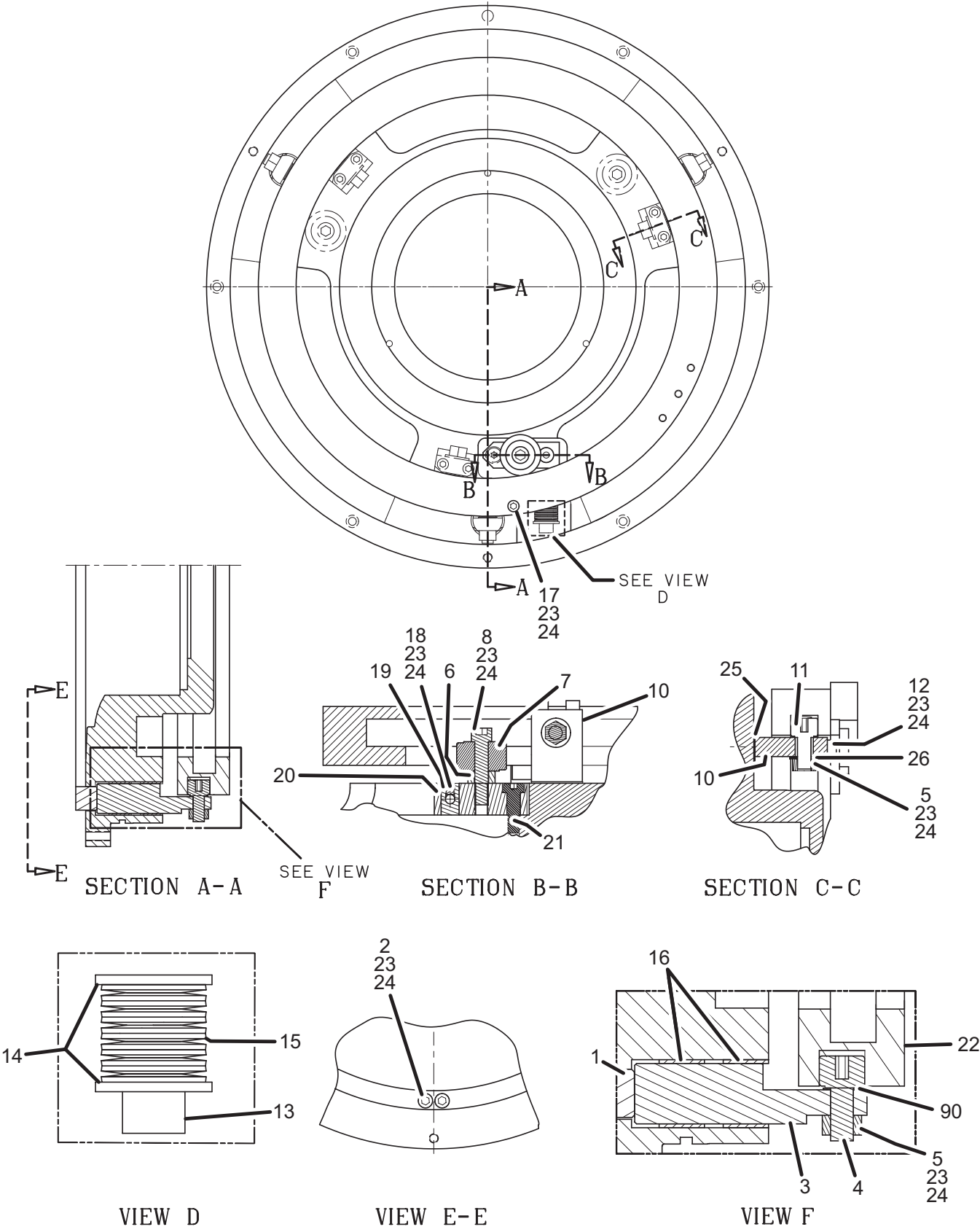
LD08907

## 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)**

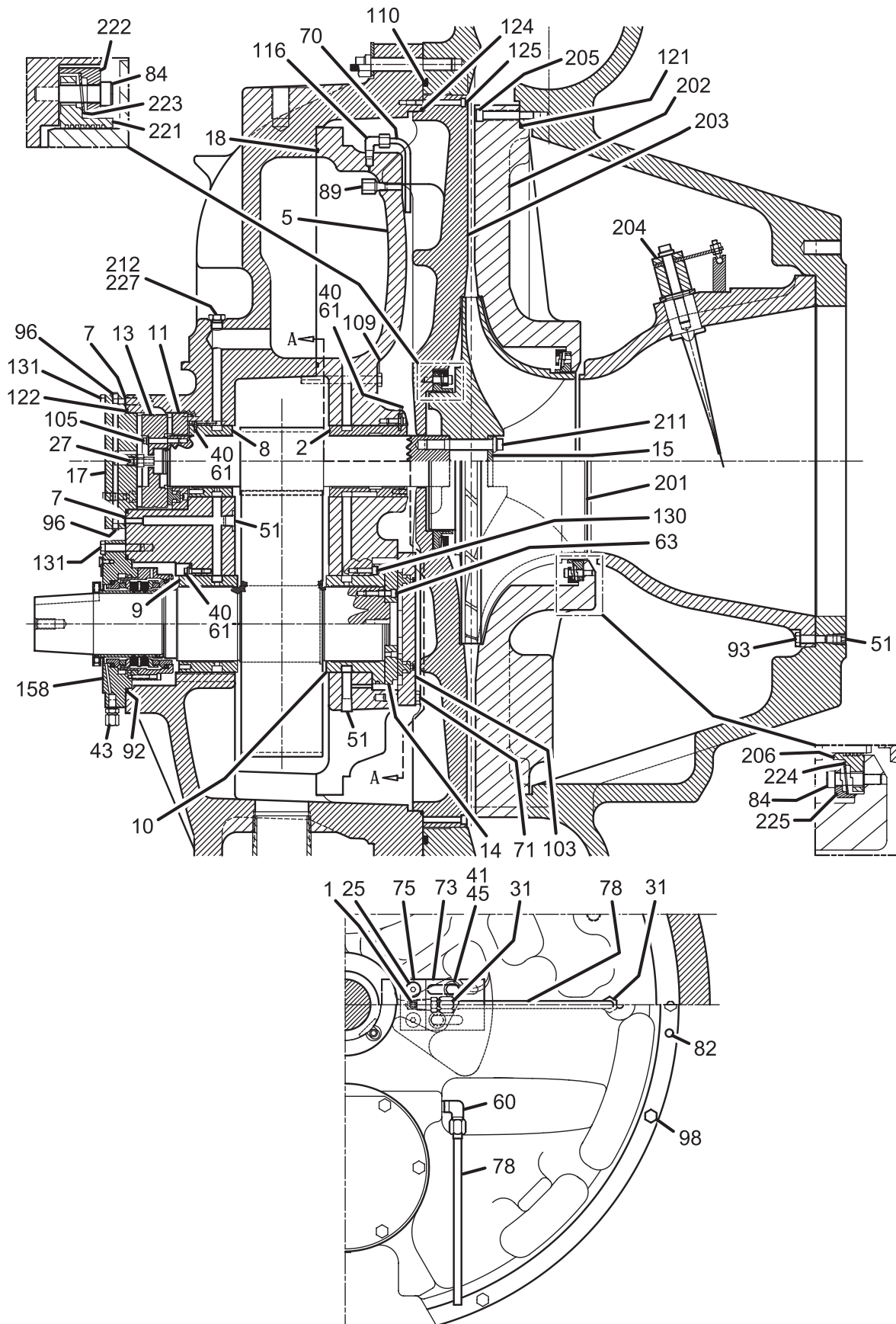
| ITEM | DESCRIPTION                       | PART NUMBER   | QUANTITY | FIGURE |
|------|-----------------------------------|---------------|----------|--------|
| 112  | Screw, Cap 12 Pt Hd 1/2           | 021 11525 000 | 1        | 23     |
| 116  | Elbow, Flare Hydraulic 1/4 Od     | 023 09677 000 | 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     |
|-------------|---------------------------------------|---------------|----------|------------|
| <b>204</b>  | Device, PRV (J3)                      | 364 50208 002 | 1        | 23         |
|             | Device, PRV (J4)                      | 364 50208 003 | 1        | 23         |
|             | Device, PRV (J5)                      | 364 50208 004 | 1        | 23         |
| <b>205</b>  | 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         |
| <b>206</b>  | 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         |
| <b>210</b>  | Plug, Hex Hd 1-5/16                   | 023 18282 000 | 2        | 25         |
| <b>211</b>  | 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         |
| <b>212</b>  | Plug, Hex Hd 9/16                     | 023 18962 000 | 4        | 23, 25     |
| <b>221</b>  | Ring, Balance Piston Seal (J3/J4)     | 064 50241 000 | 1        | 23         |
|             | Ring, Balance Piston Seal (J5)        | 064 50238 000 | 1        | 23         |
| <b>222</b>  | Retainer, B.P. Seal Washer (J3/J4)    | 064 50242 000 | 1        | 23         |
|             | Retainer, B.P. Seal Washer (J5)       | 064 50239 000 | 1        | 23         |
| <b>223</b>  | Washer, Spring Balance Piston (J3/J4) | 064 50243 000 | 1        | 23         |
|             | Washer, Spring Balance Piston (J5)    | 064 50240 000 | 1        | 23         |
| <b>224</b>  | 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         |
| <b>225</b>  | 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         |
| <b>†226</b> | Seal, O-Ring Neoprene                 | 028 12961 008 | 2        | 25         |
| <b>†227</b> | 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 | -        | *          |

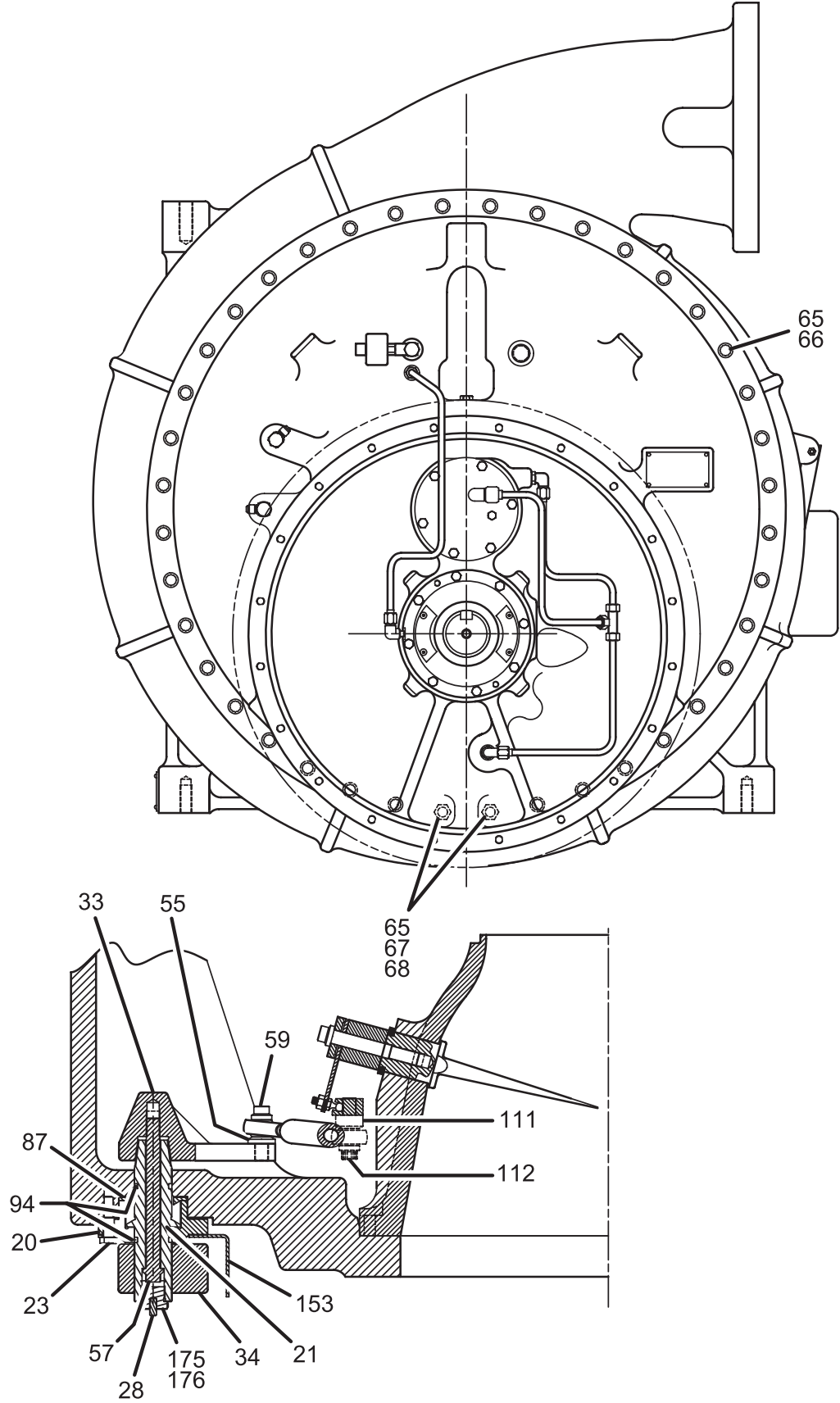
\* Included in Bearing Kit    † Included in O-Ring Kit



SECTION A-A

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

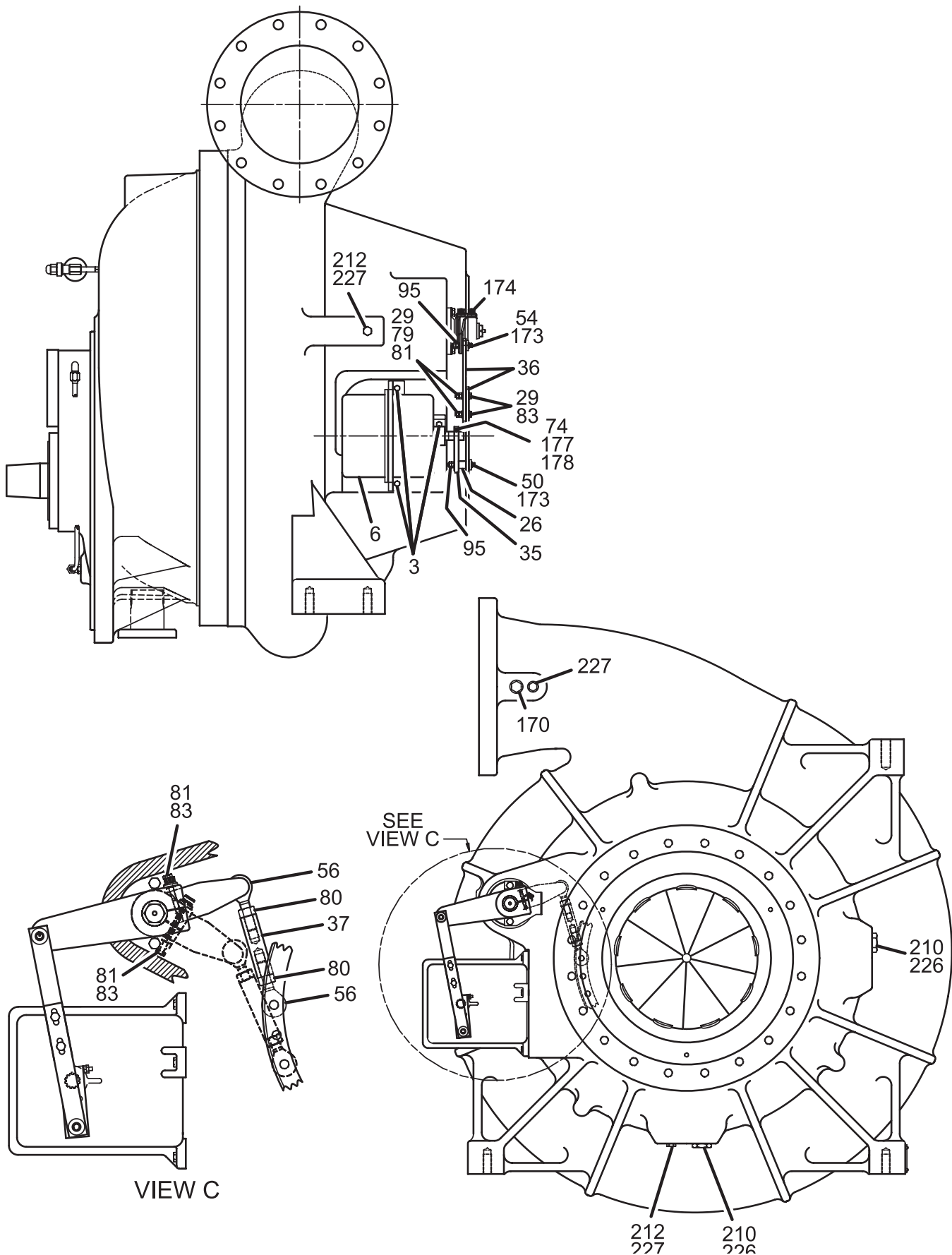
LD15177



SECTION B-B

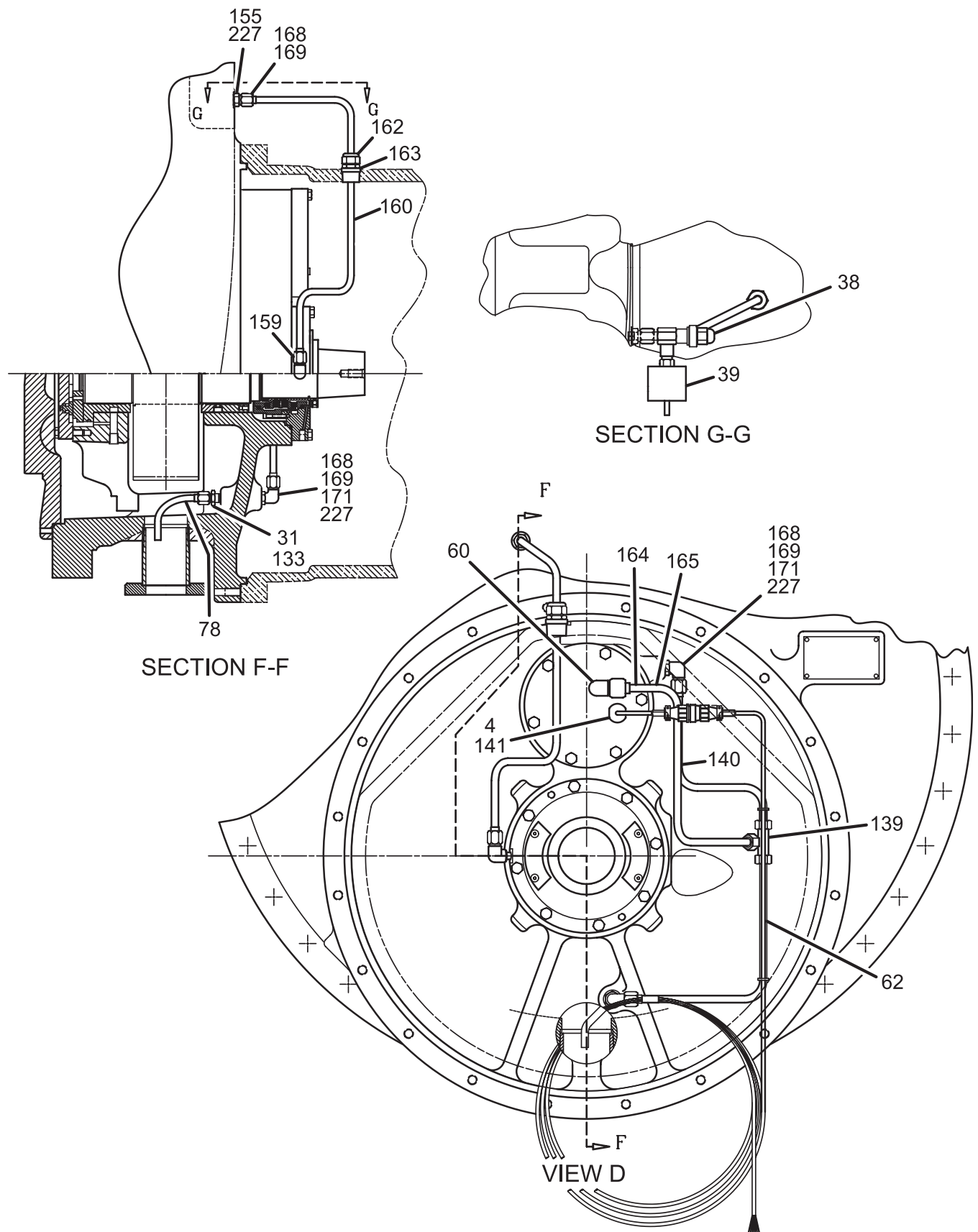
FIGURE 24 - YD COMPRESSOR COMPONENTS (J3/J4/J5)

LD15178



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

LD15179



**FIGURE 26 - YD COMPRESSOR COMPONENTS (J3/J4/J5)**

LD15181

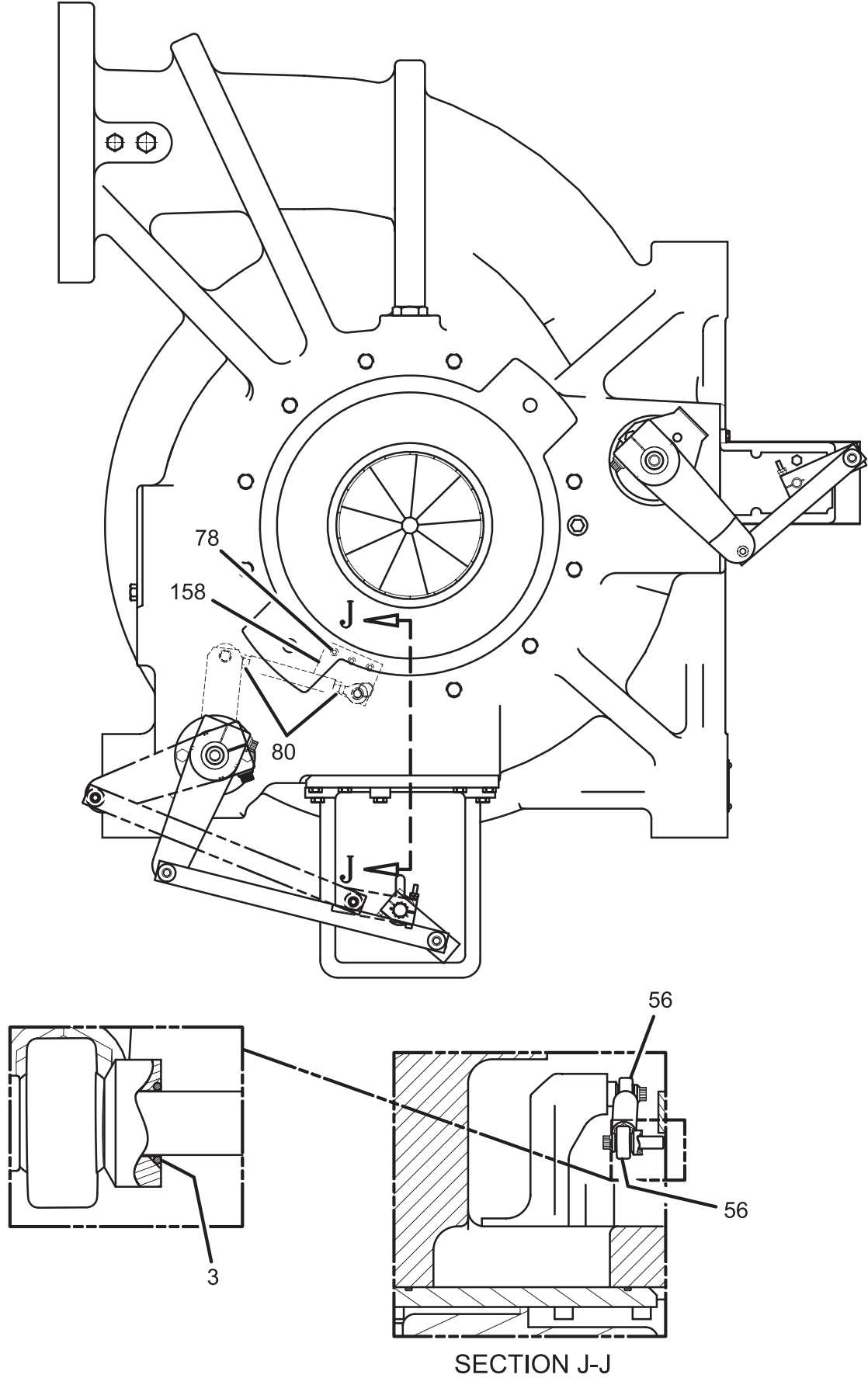
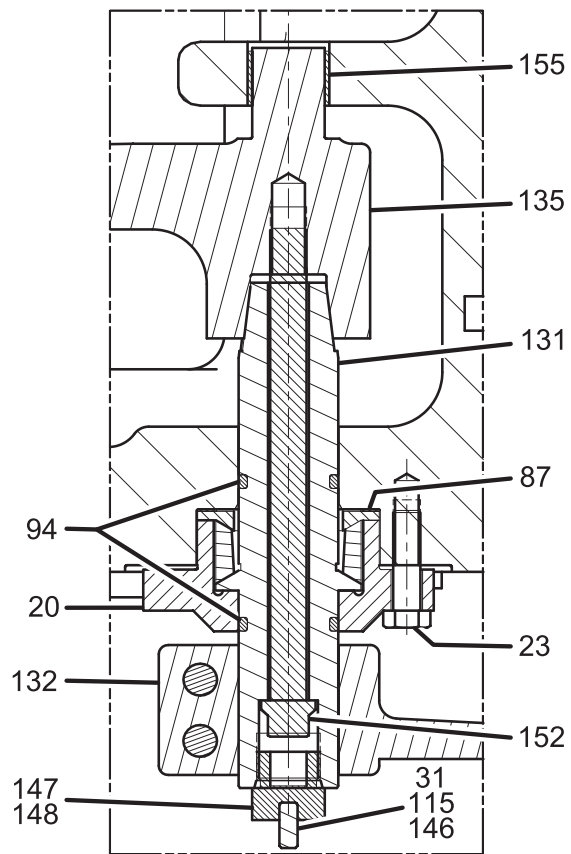
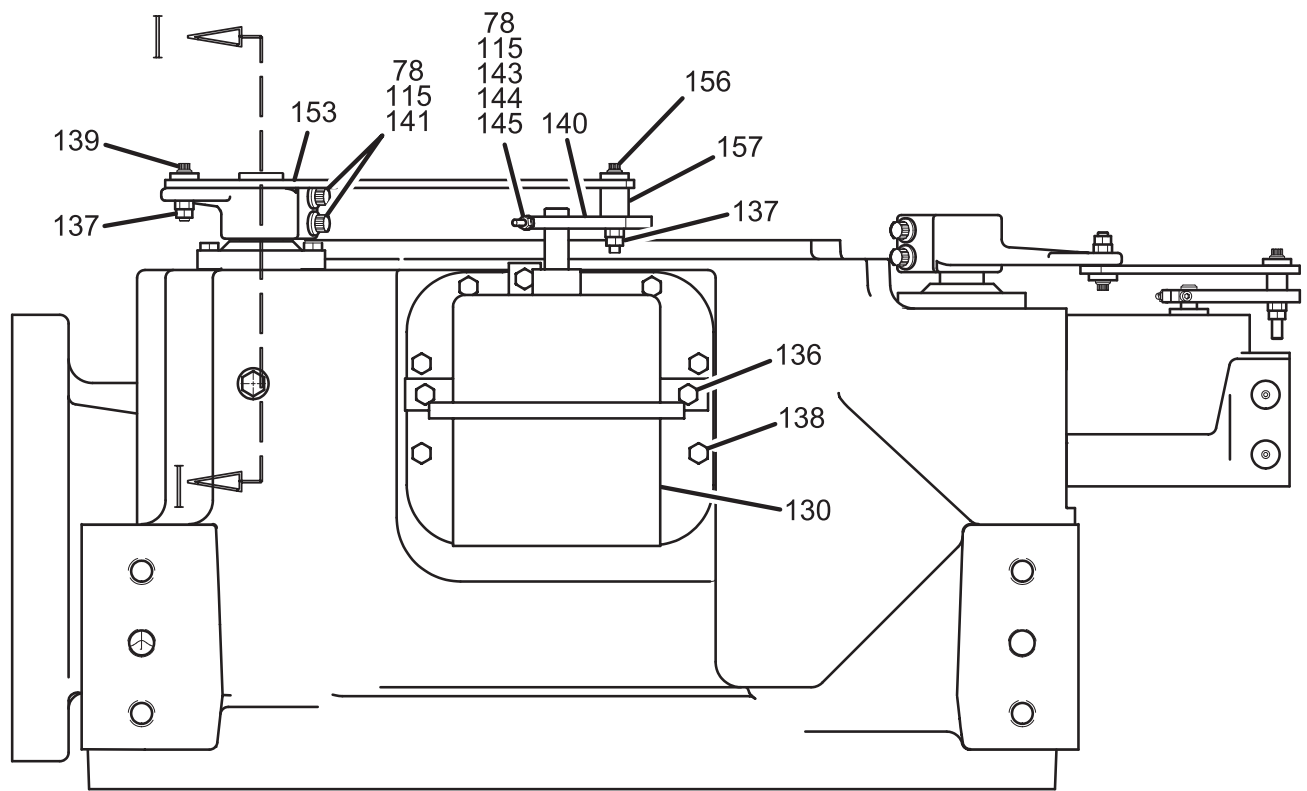


FIGURE 27 - YD COMPRESSOR COMPONENTS (J3/J4/J5)

LD15180



SECTION I-I

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

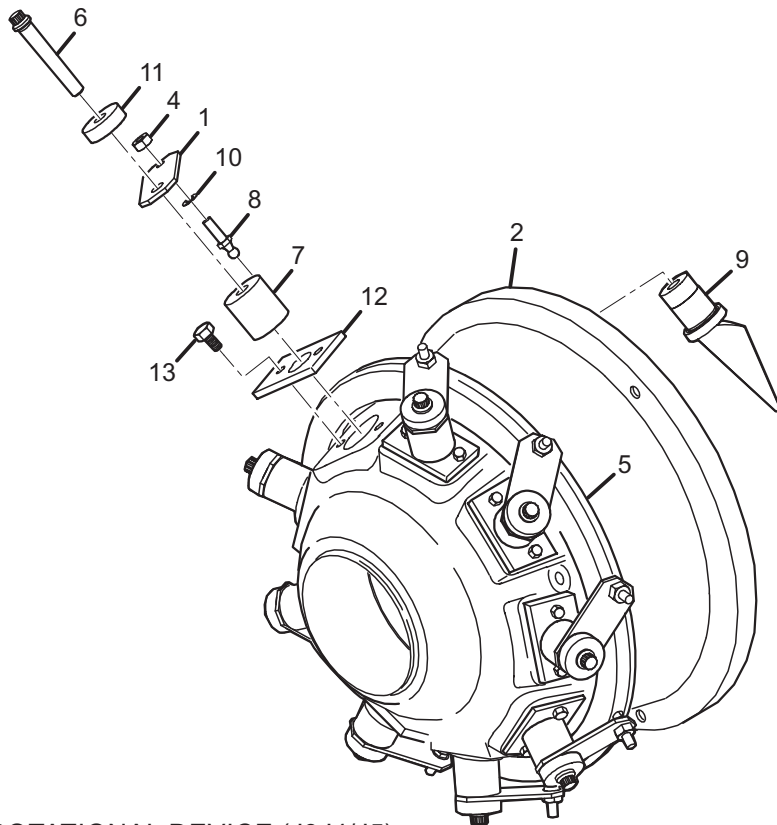
LD15182

## PRE-ROTATION DEVICE

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

| ITEM | DESCRIPTION                   | PART<br>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)**

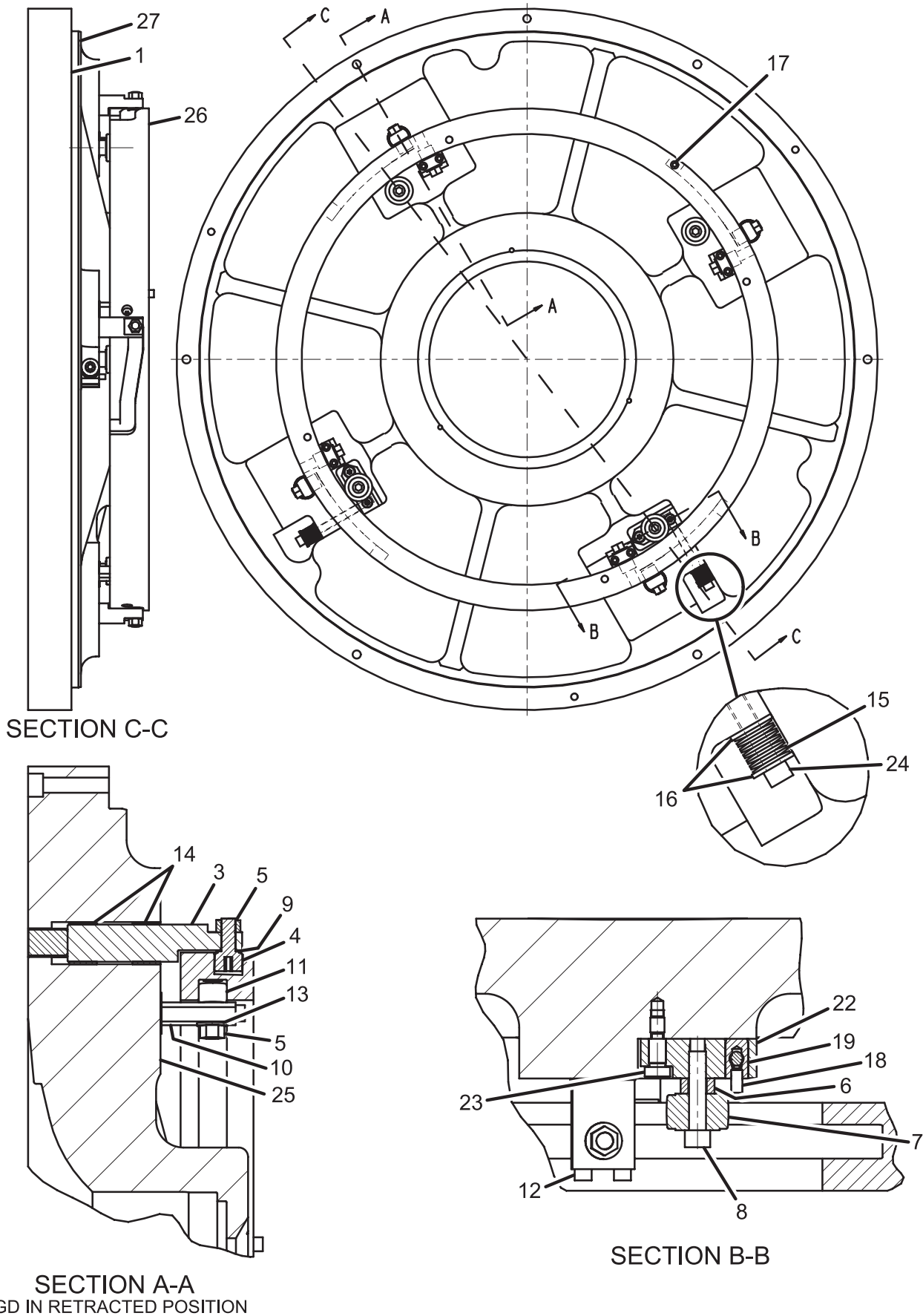
LD12085

## 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)**

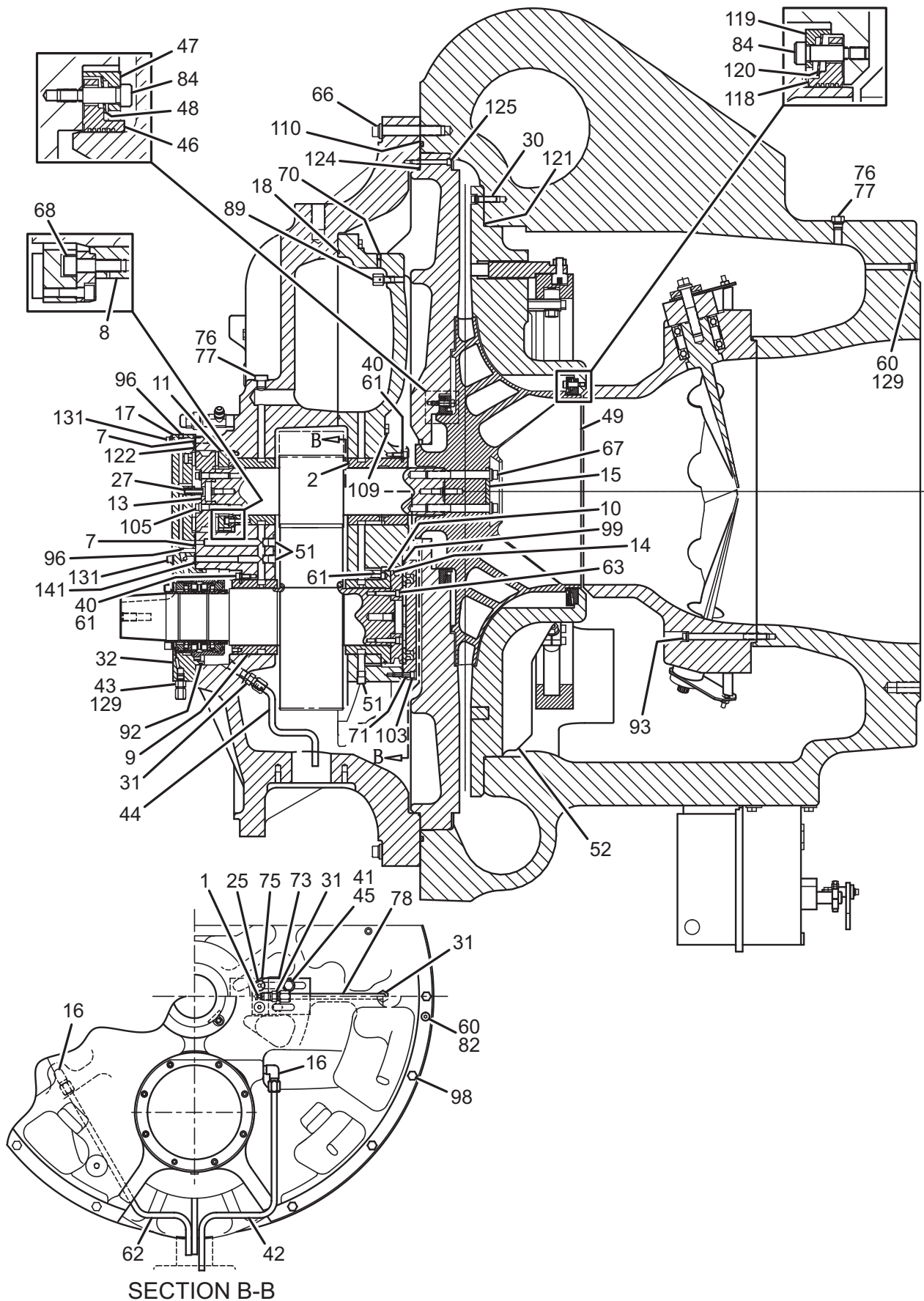
| ITEM | DESCRIPTION                    | PART NUMBER   | QUANTITY | FIGURE |
|------|--------------------------------|---------------|----------|--------|
| 91   | Plate, Cover Handhole          | 064 50139 000 | 1        | 34     |
| †92  | Seal, O-Ring 5-7/8 Id X 1/8    | 028 12204 000 | 1        | 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<br>NUMBER | QUANTITY | FIGURE |
|-------------|------------------------------------------|----------------|----------|--------|
| <b>142</b>  | Clamp, Tube 1/8 Od                       | 023 06163 000  | 1        | 32     |
| <b>143</b>  | Screw, Cap Hex Soc Hd #8                 | 021 19153 000  | 1        | 32     |
| <b>144</b>  | Screw, Cap 12pt Hd 5/16                  | 021 19241 000  | 3        | 33, 34 |
| <b>145</b>  | Screw, Cap 12pt Hd 5/16                  | 021 12202 000  | 1        | 34     |
| <b>300A</b> | Support, Rotor with Bearing Housing (J7) | 364 51498 000  | 1        | *      |
| <b>300B</b> | Scroll, Rotor (J7)                       | 064 51500 000  | 1        | *      |
| <b>300C</b> | Plate, Diffuser (J7)                     | 064 51504 000  | 1        | *      |
| <b>301</b>  | 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

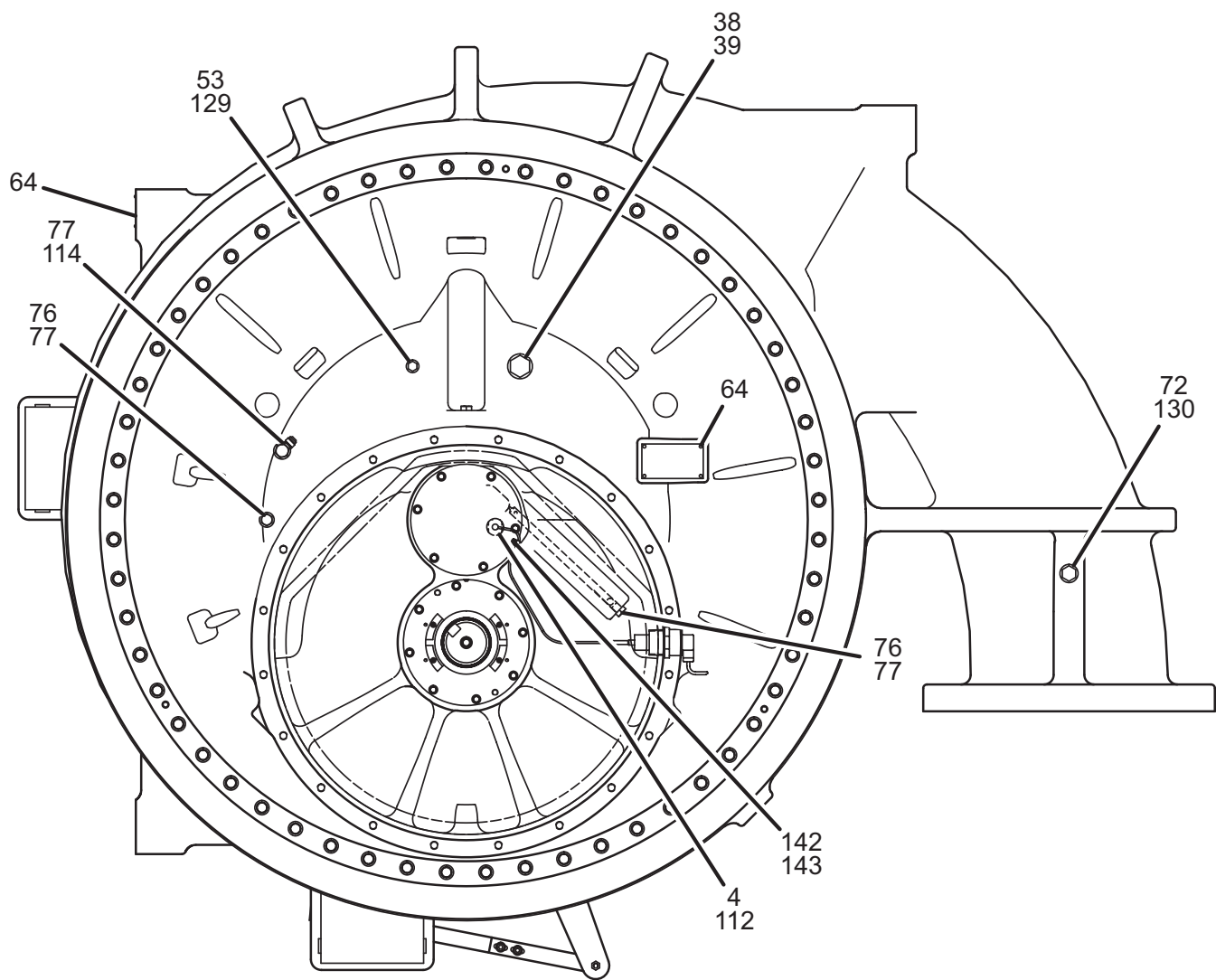
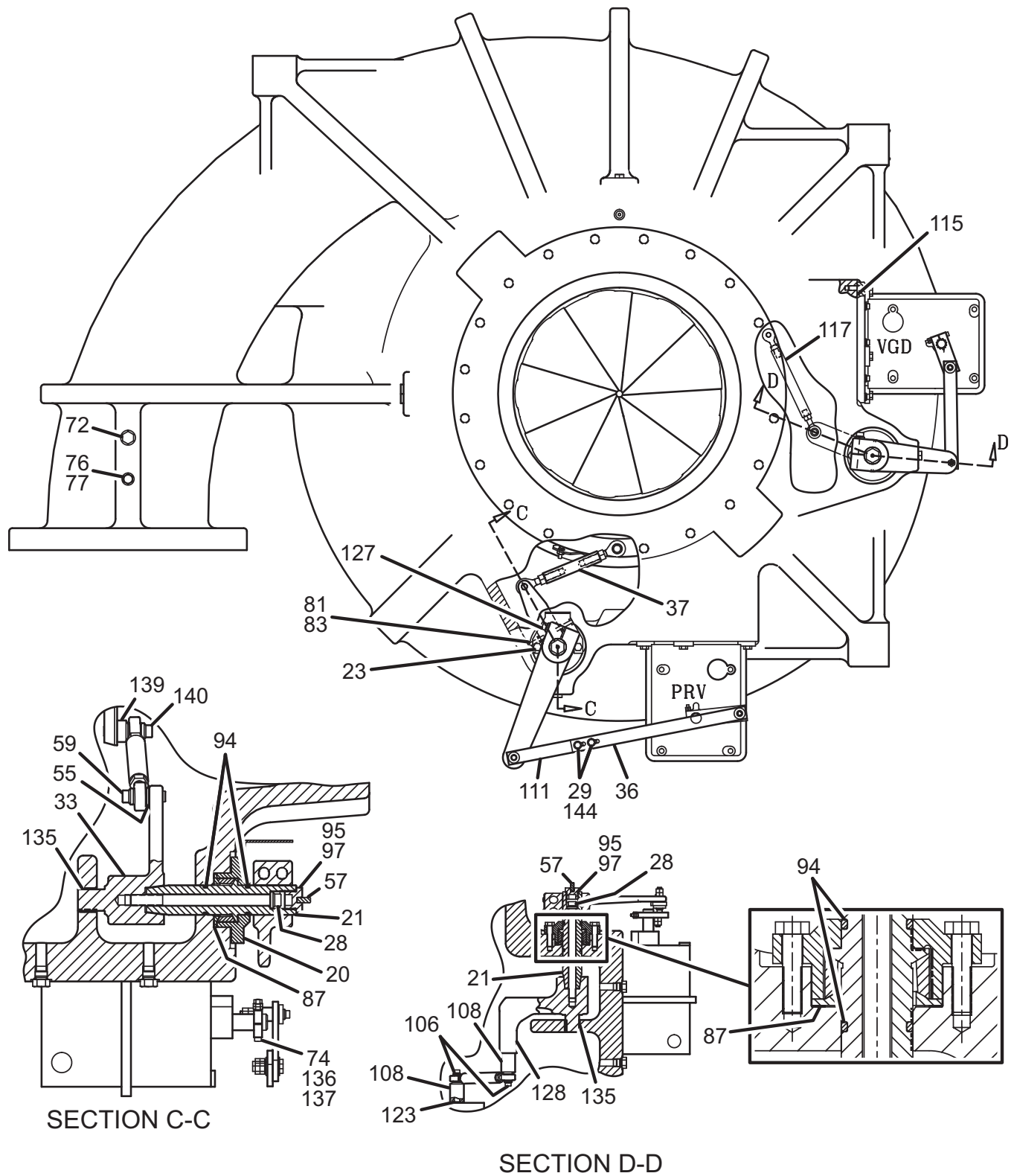


FIGURE 32 - YD COMPRESSOR COMPONENTS (J7)

LD12095



**FIGURE 33 - YD COMPRESSOR COMPONENTS (J7)**

LD12096

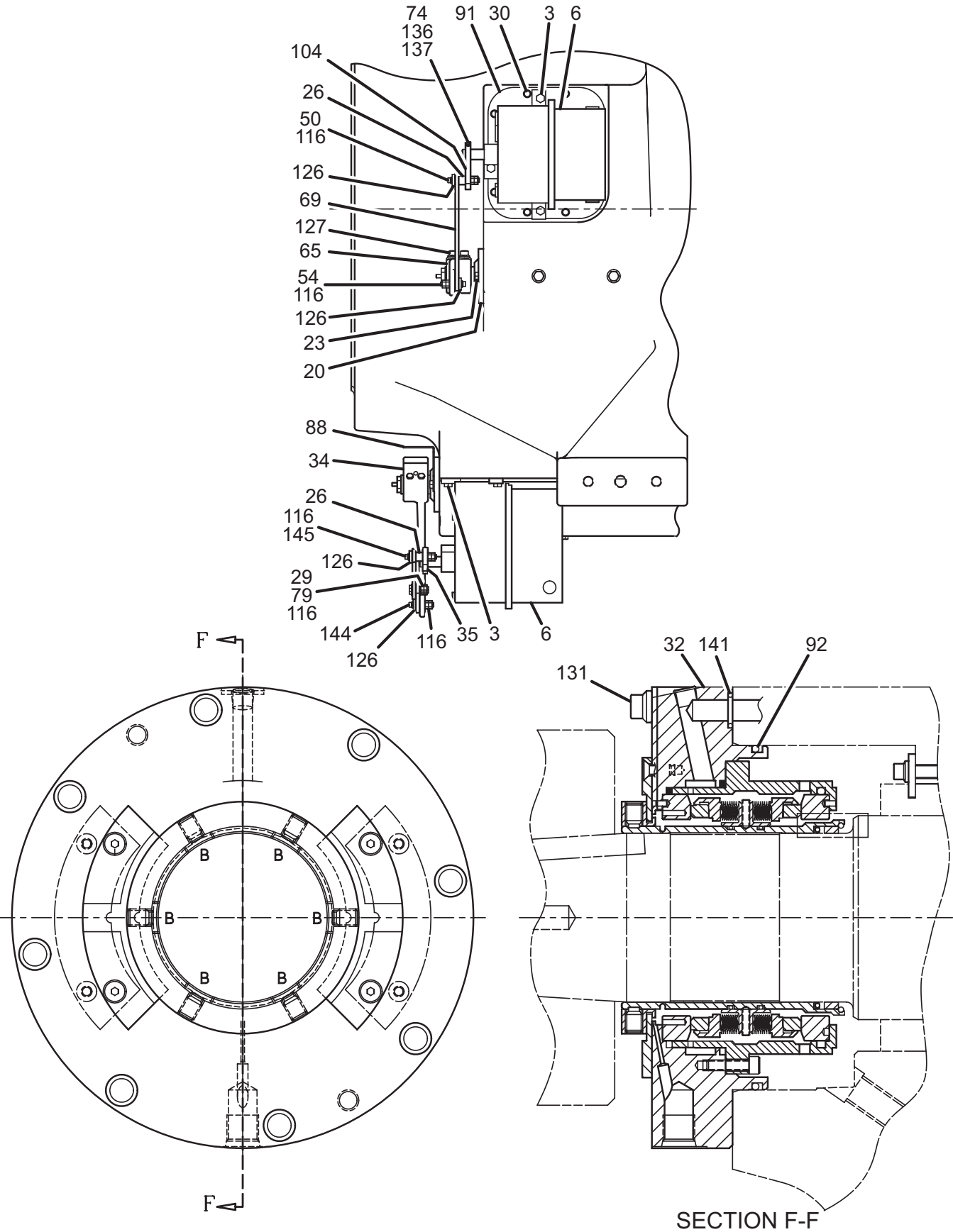


FIGURE 34 - COMPRESSOR COMPONENTS (J7)

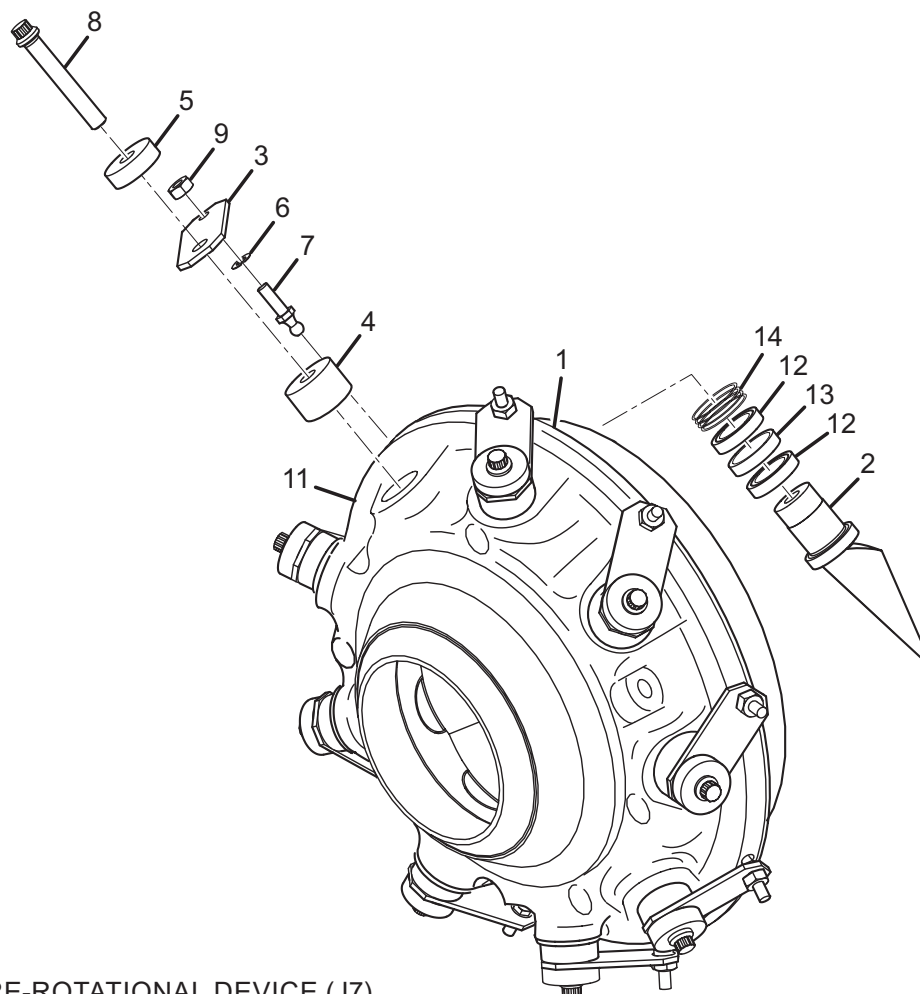
LD12097

## 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)**

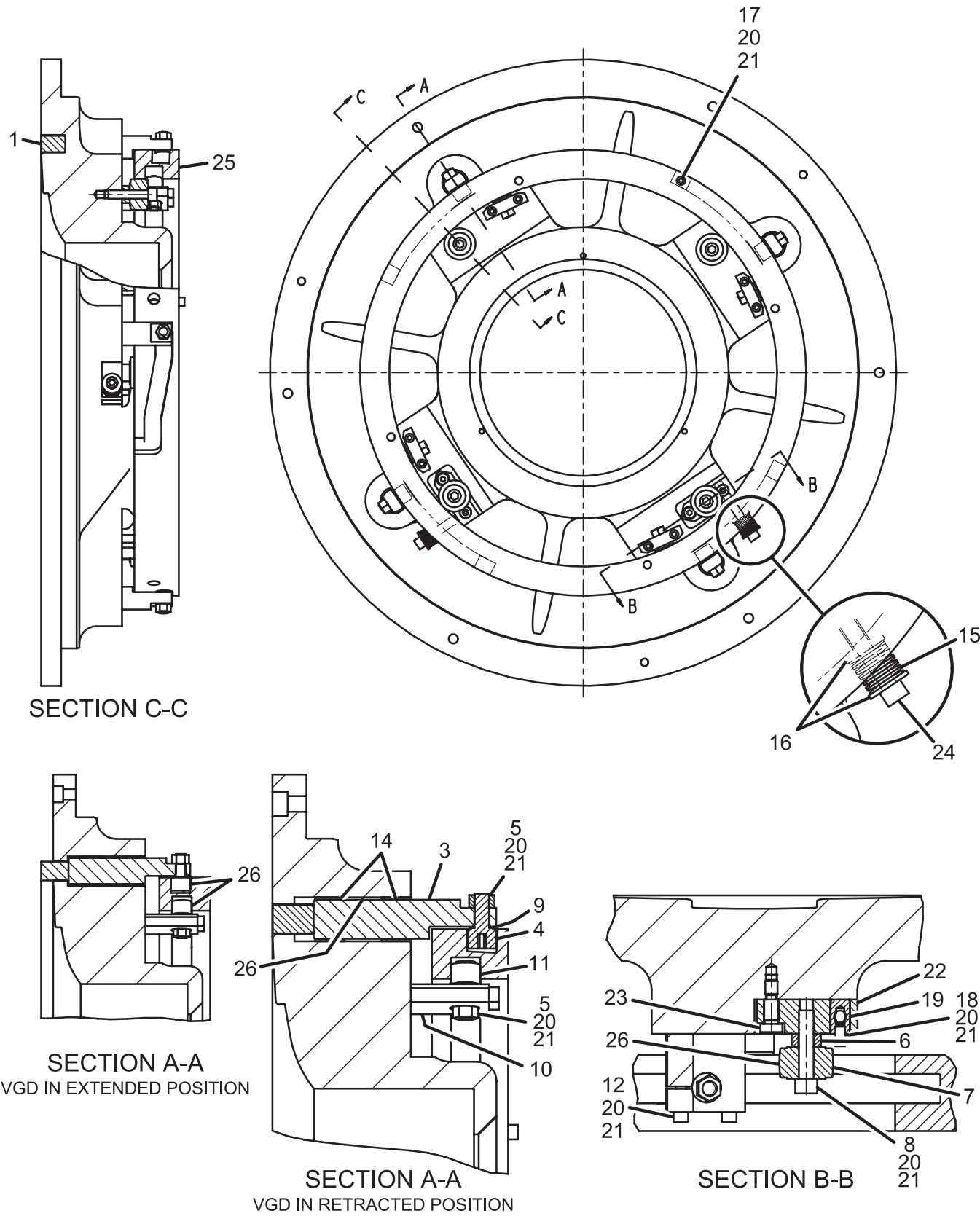
LD15093a

## VARIABLE GEOMETRY DIFFUSER

**TABLE 18 - VARIABLE GEOMETRY DIFFUSER (J7)**

| ITEM | DESCRIPTION                             | PART<br>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)**

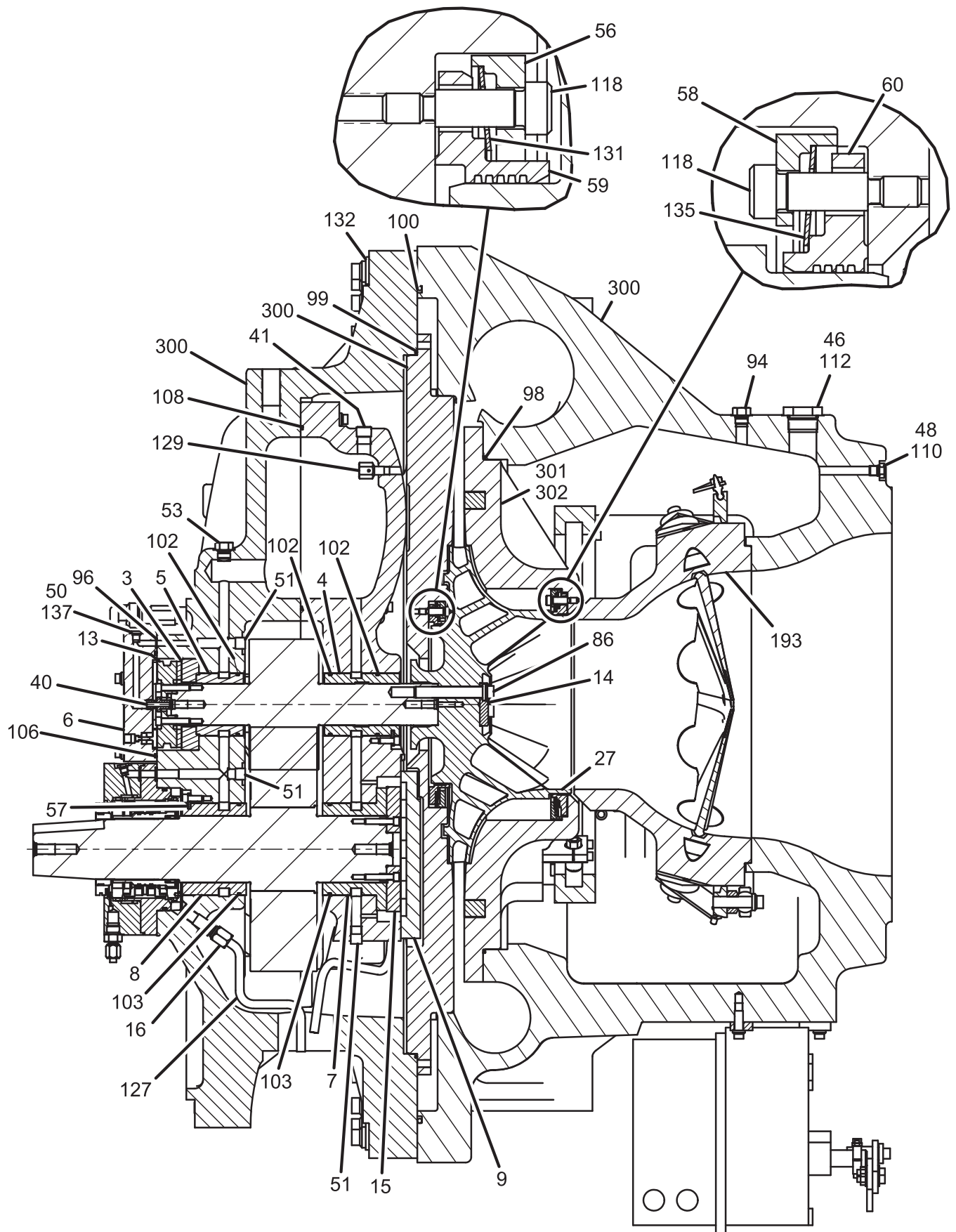
| ITEM | DESCRIPTION                          | PART NUMBER   | QUANTITY | FIGURE     |
|------|--------------------------------------|---------------|----------|------------|
| 43   | Plate, Handhole Cover (K1/K2)        | 064 50139 000 | 1        | 40         |
| 44   | Plate, Mtg (K1/K2)                   | 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)**

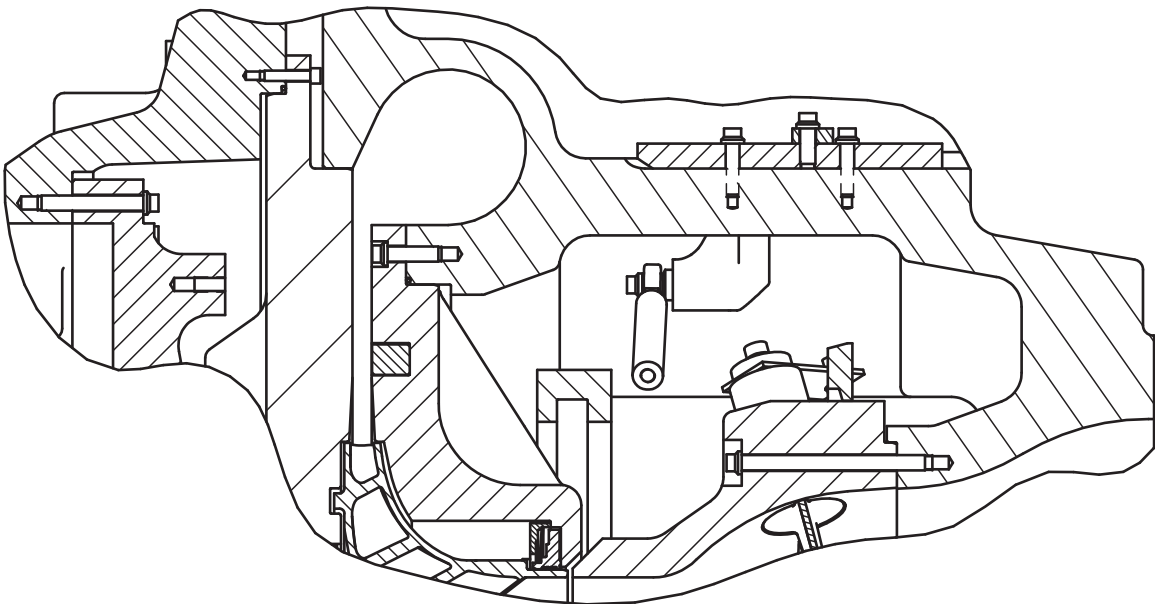
| ITEM | DESCRIPTION                              | PART NUMBER   | QUANTITY | FIGURE |
|------|------------------------------------------|---------------|----------|--------|
| 119  | Shaft, Contl Prerot Device               | 364 51672 000 | 1        | 40     |
| 120  | Shaft, Control VGD                       | 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

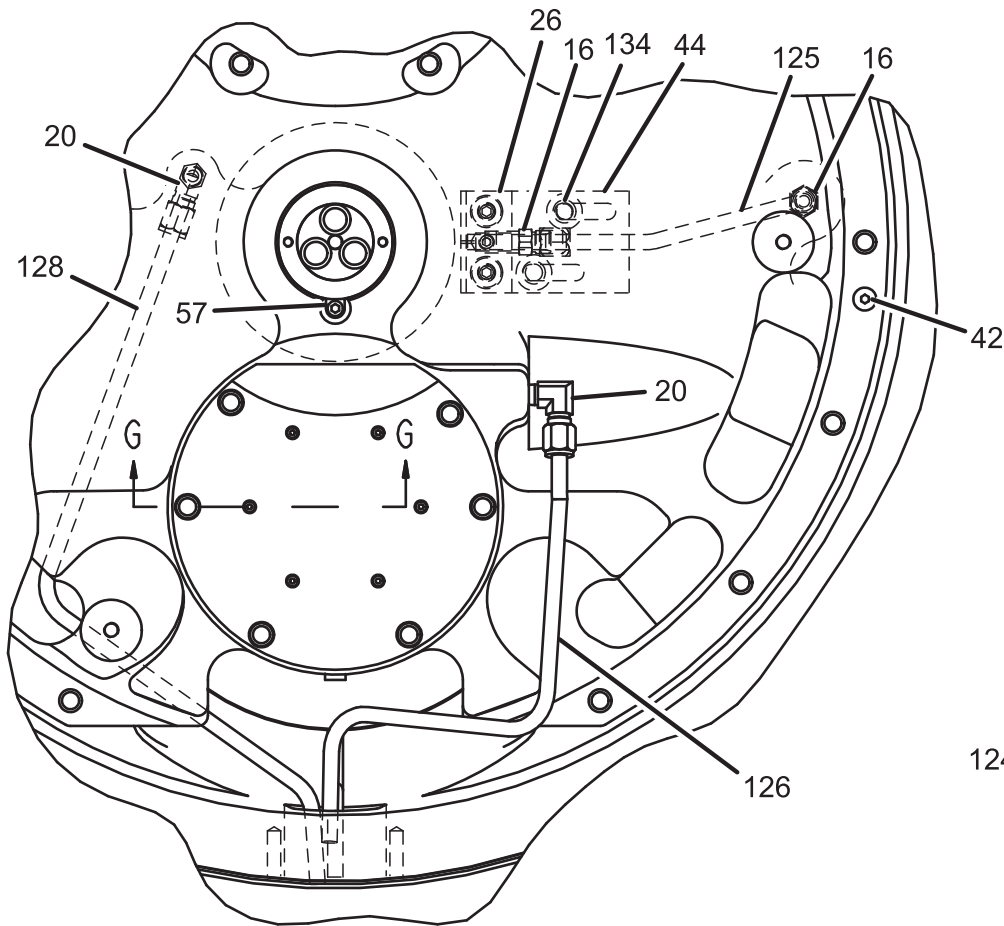


**FIGURE 37 - COMPRESSOR COMPONENTS (K1/K2)**

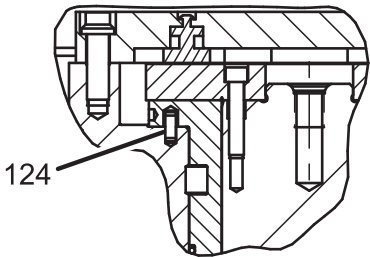
LD15092



SECTION J-J



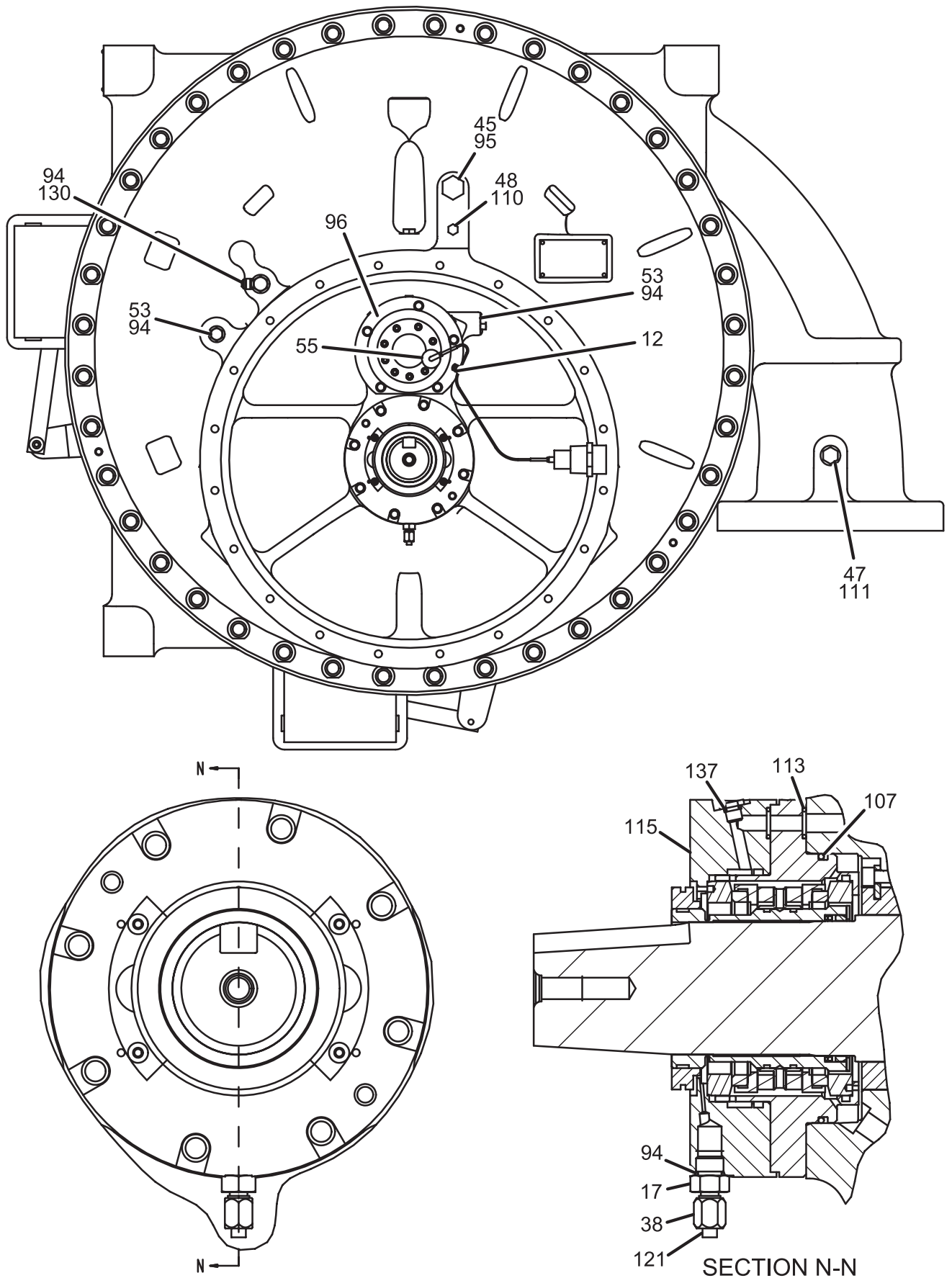
SECTION B-B



SECTION G-G

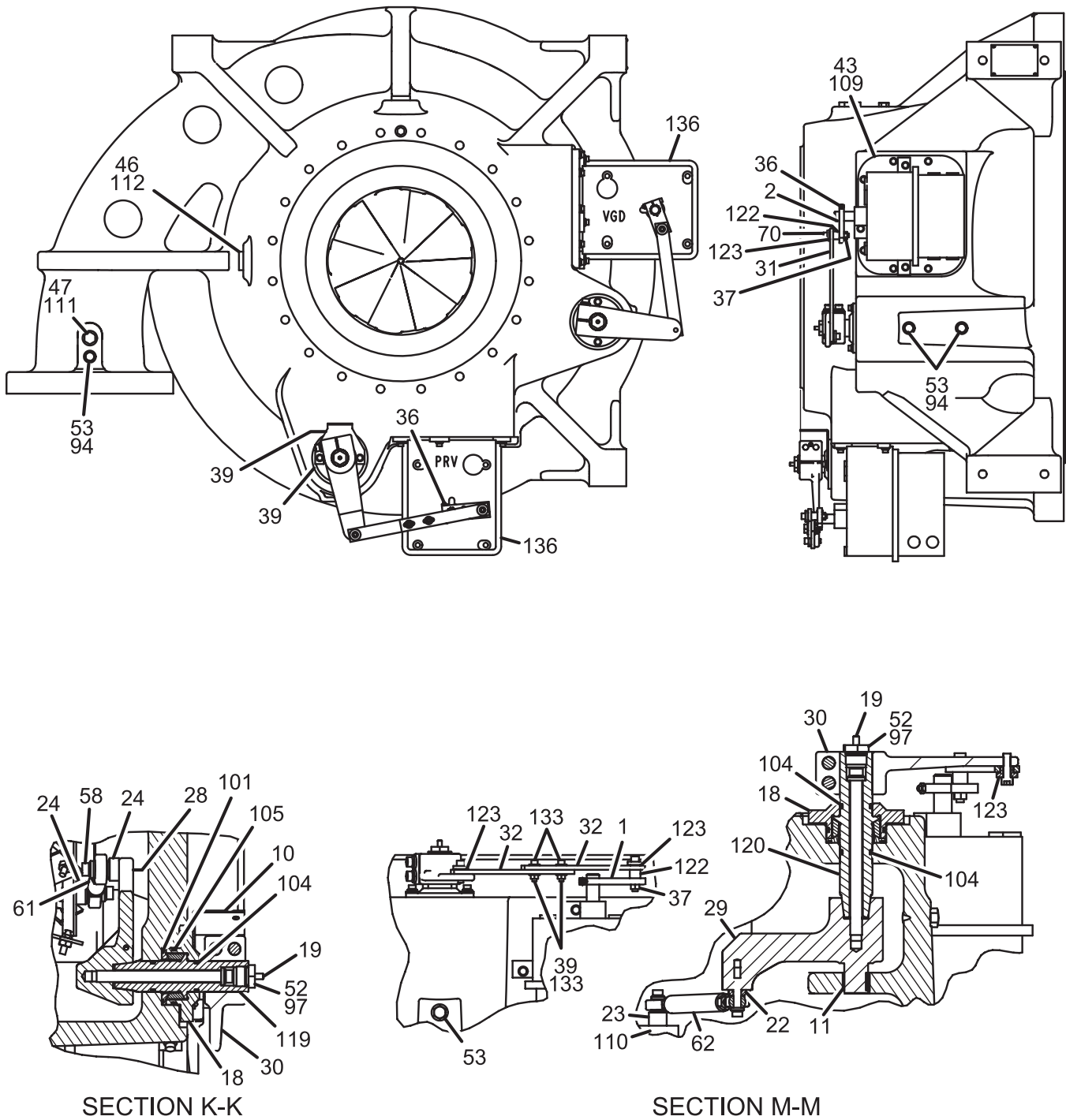
FIGURE 38 - COMPRESSOR COMPONENTS (K1/K2)

LD15092



**FIGURE 39 - COMPRESSOR COMPONENTS (K1/K2)**

LD15167



**FIGURE 40 - COMPRESSOR COMPONENTS (K1/K2)**

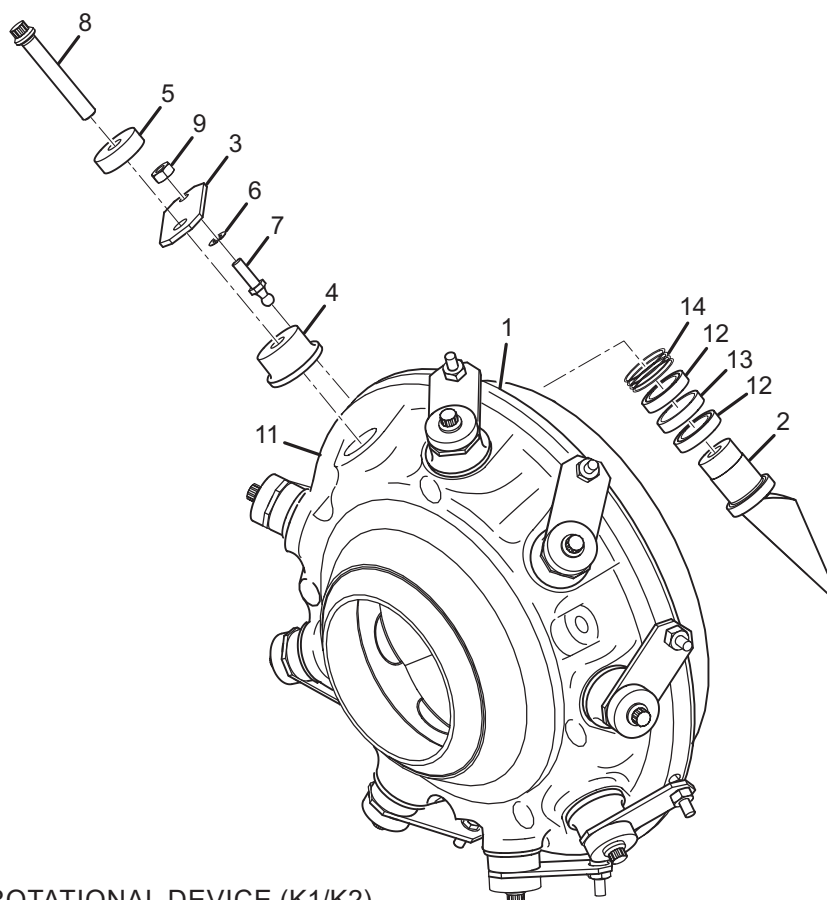
LD15168

## 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)**

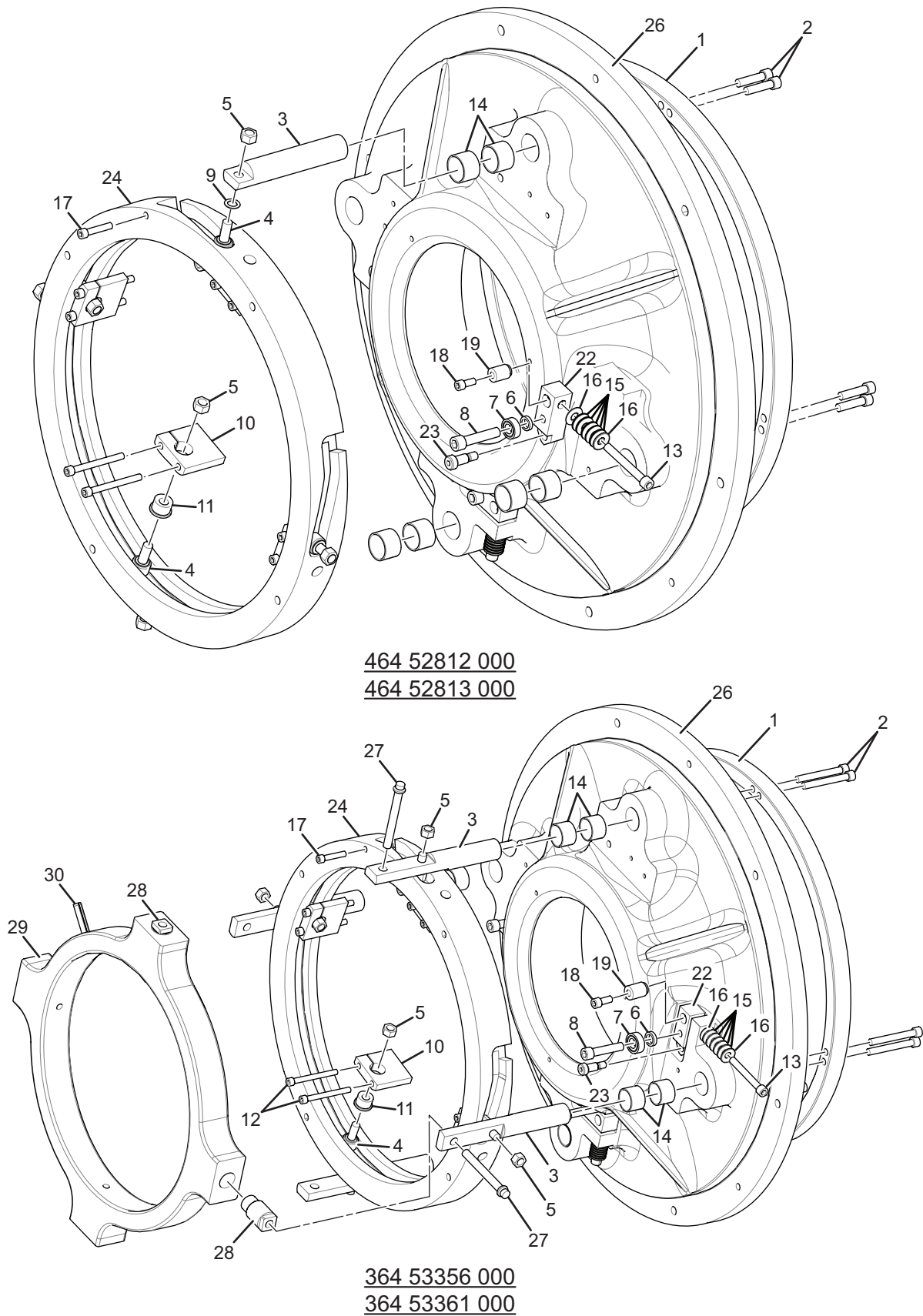
LD15093

## 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         |

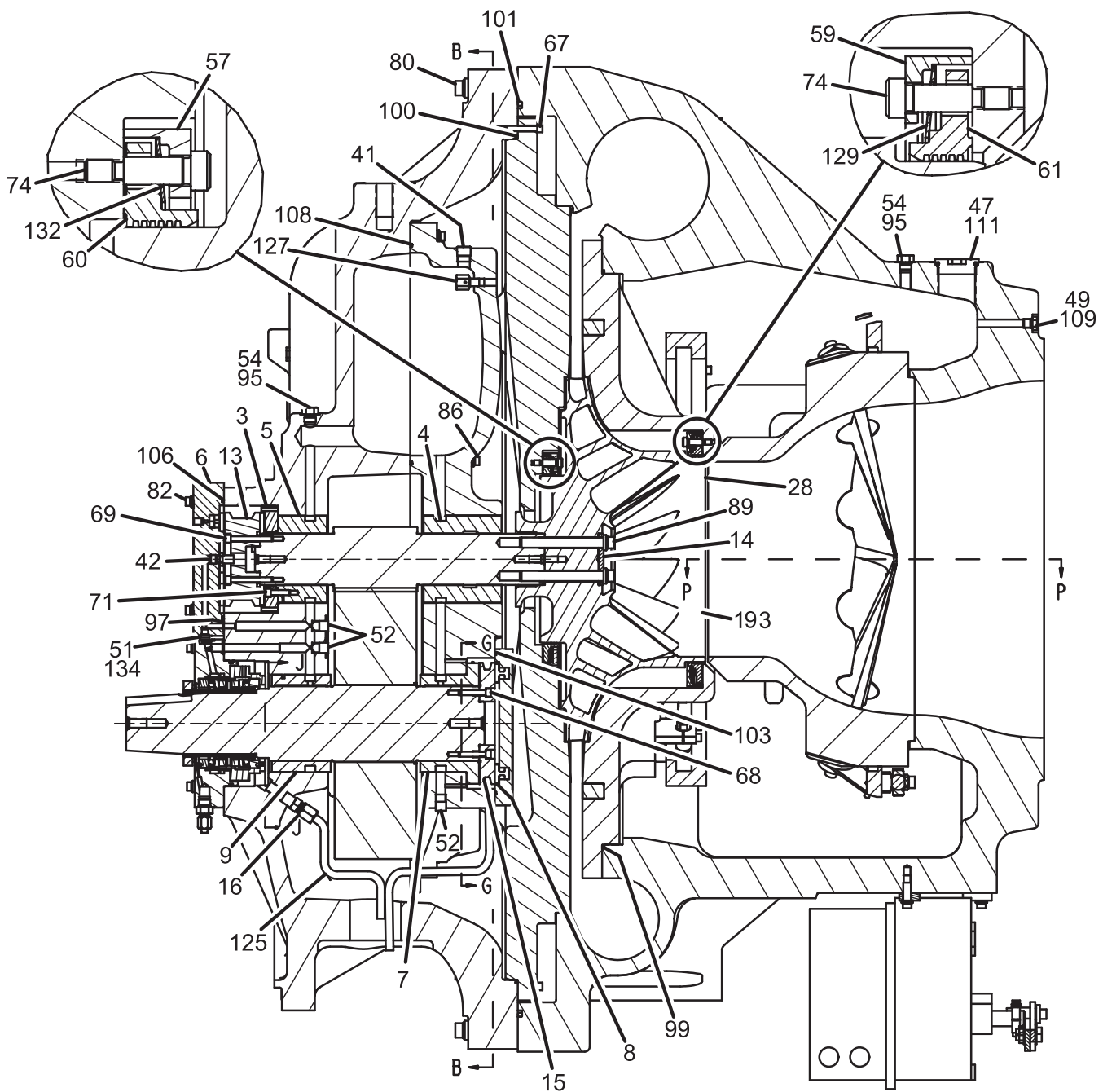
\* Included in Bearing Kit (see APPENDIX A for additional details)

† Included in O-Ring Kit

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

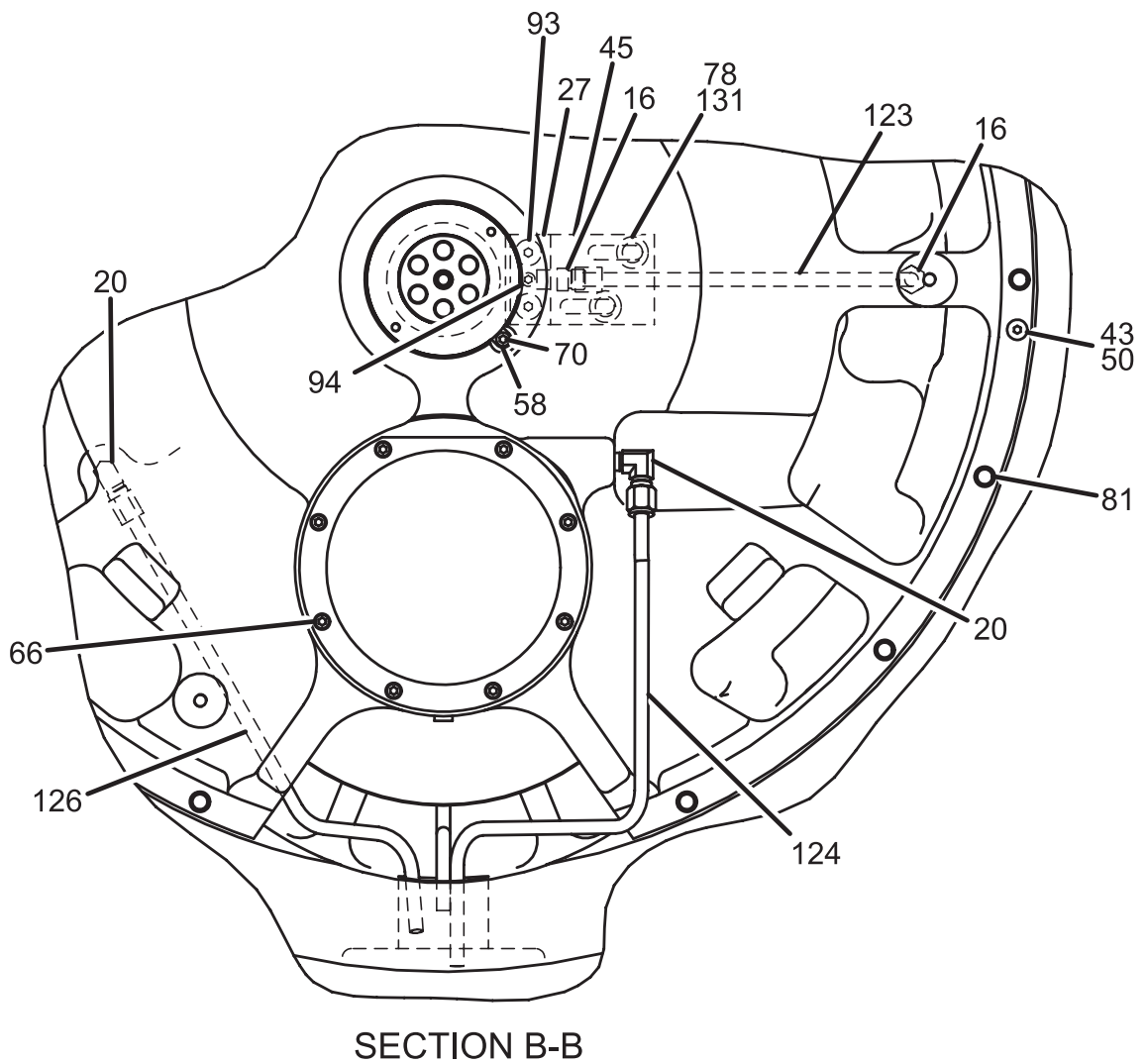
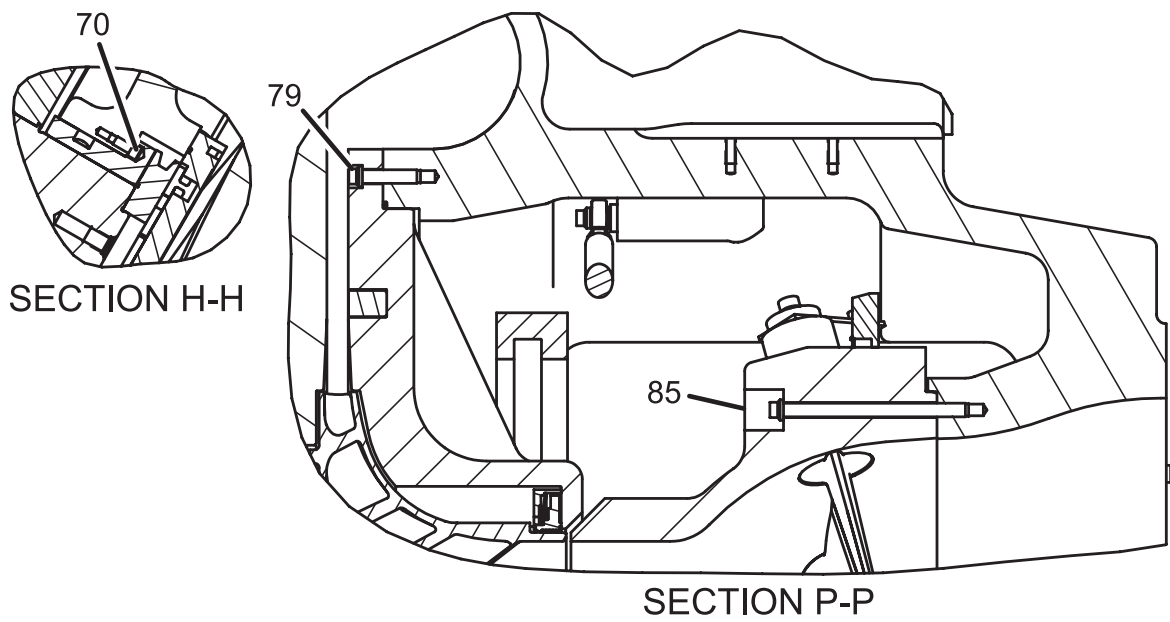
| ITEM        | DESCRIPTION                              | PART NUMBER   | QUANTITY | FIGURE |
|-------------|------------------------------------------|---------------|----------|--------|
| <b>129</b>  | Washer, Eye Spring (K4)                  | 064 51828 000 | 1        | 43     |
| <b>130</b>  |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

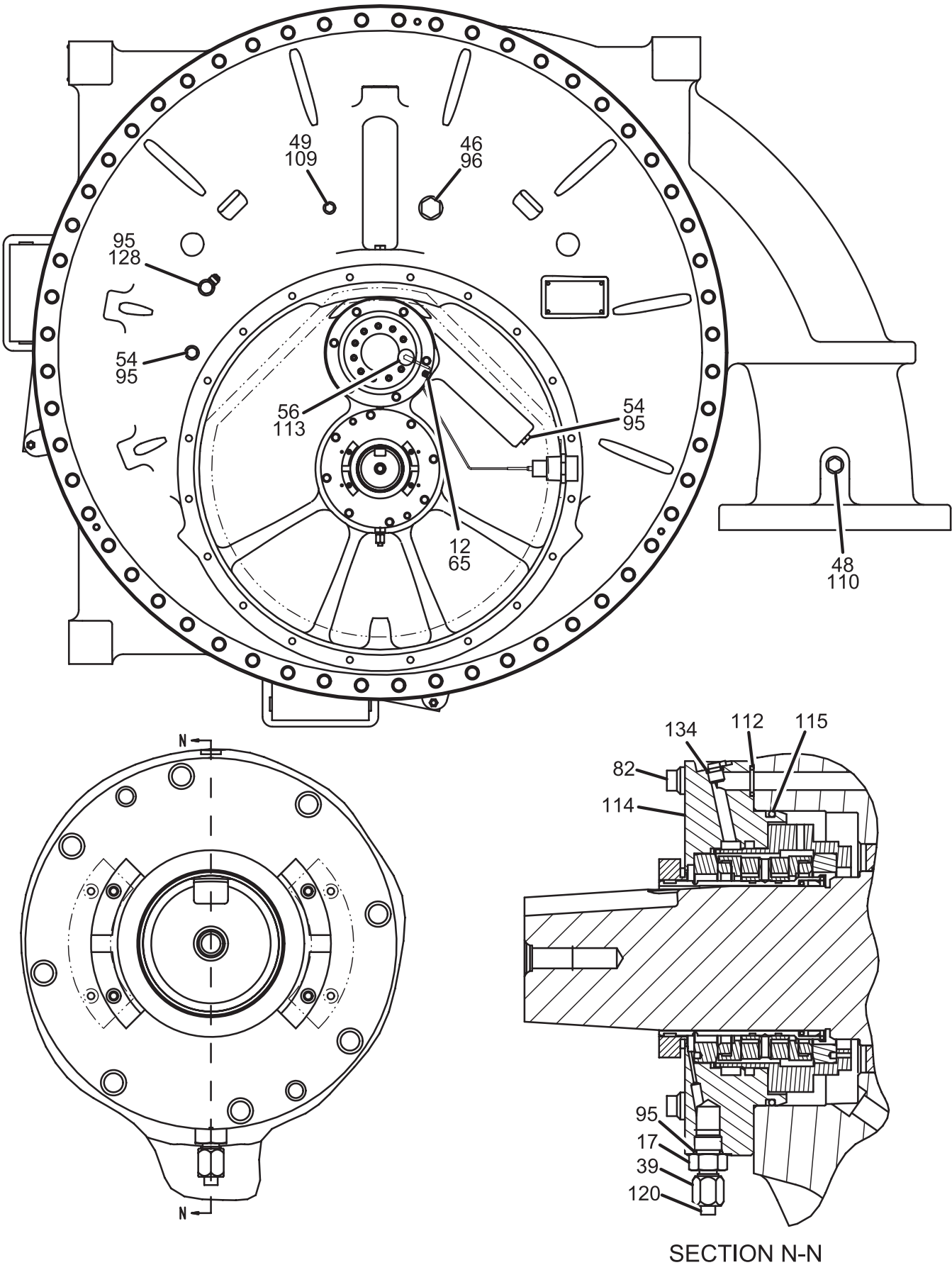
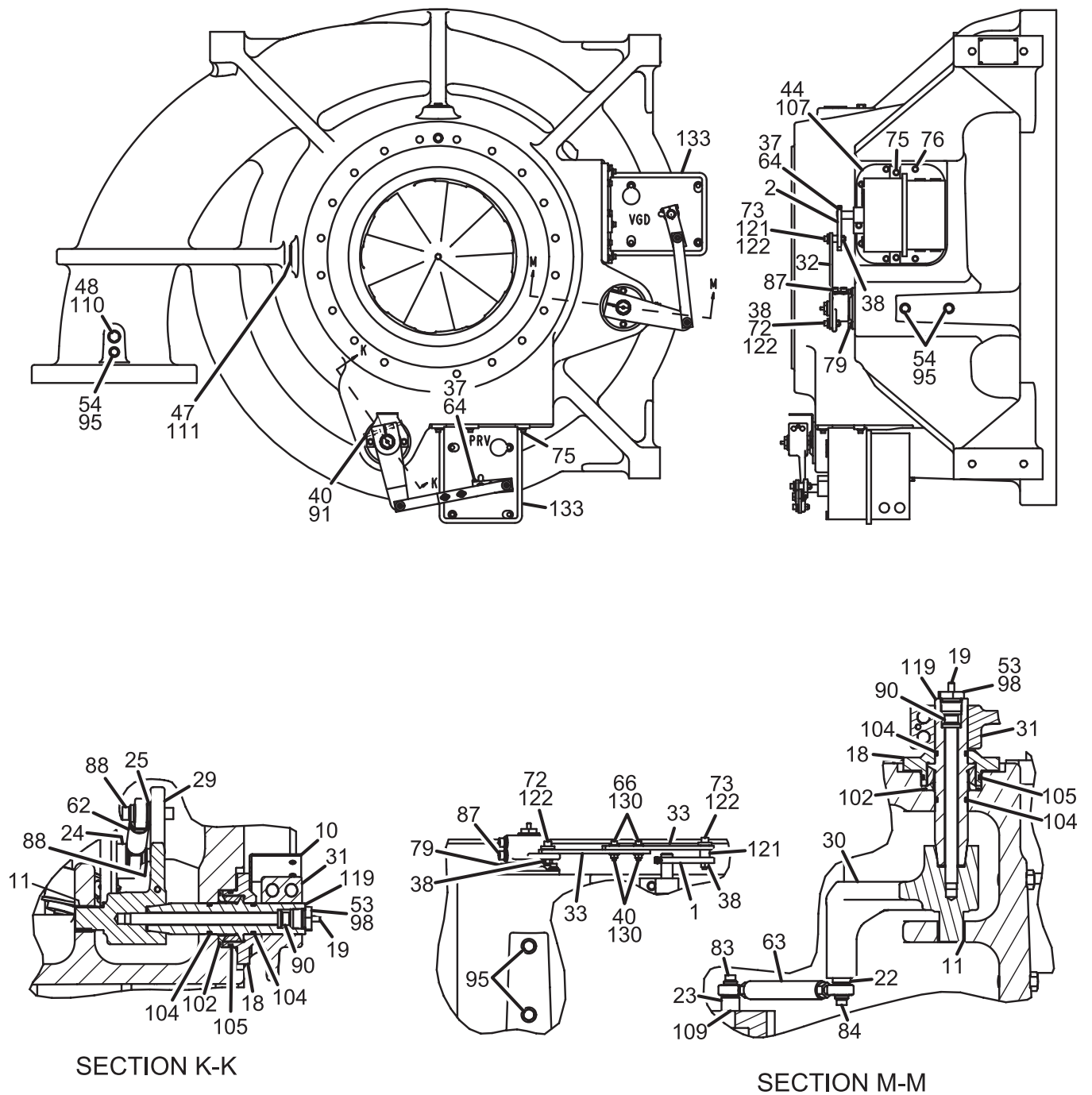


FIGURE 45 - COMPRESSOR COMPONENTS (K3/K4)

LD15171



**FIGURE 46 - COMPRESSOR COMPONENTS (K3/K4)**

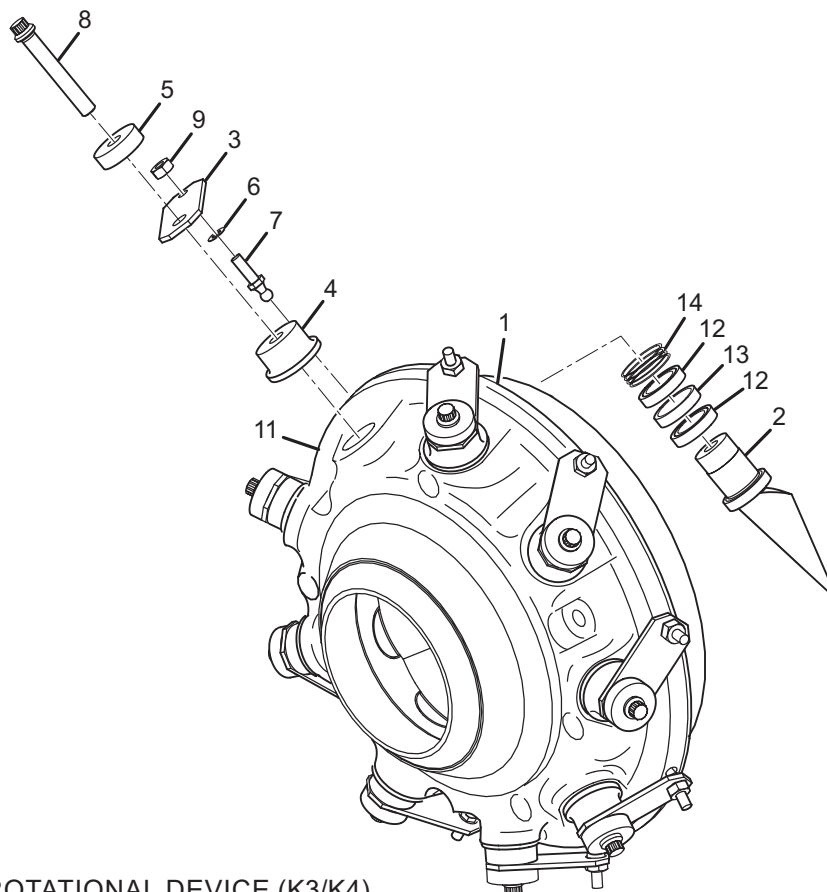
LD15172

## 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)**

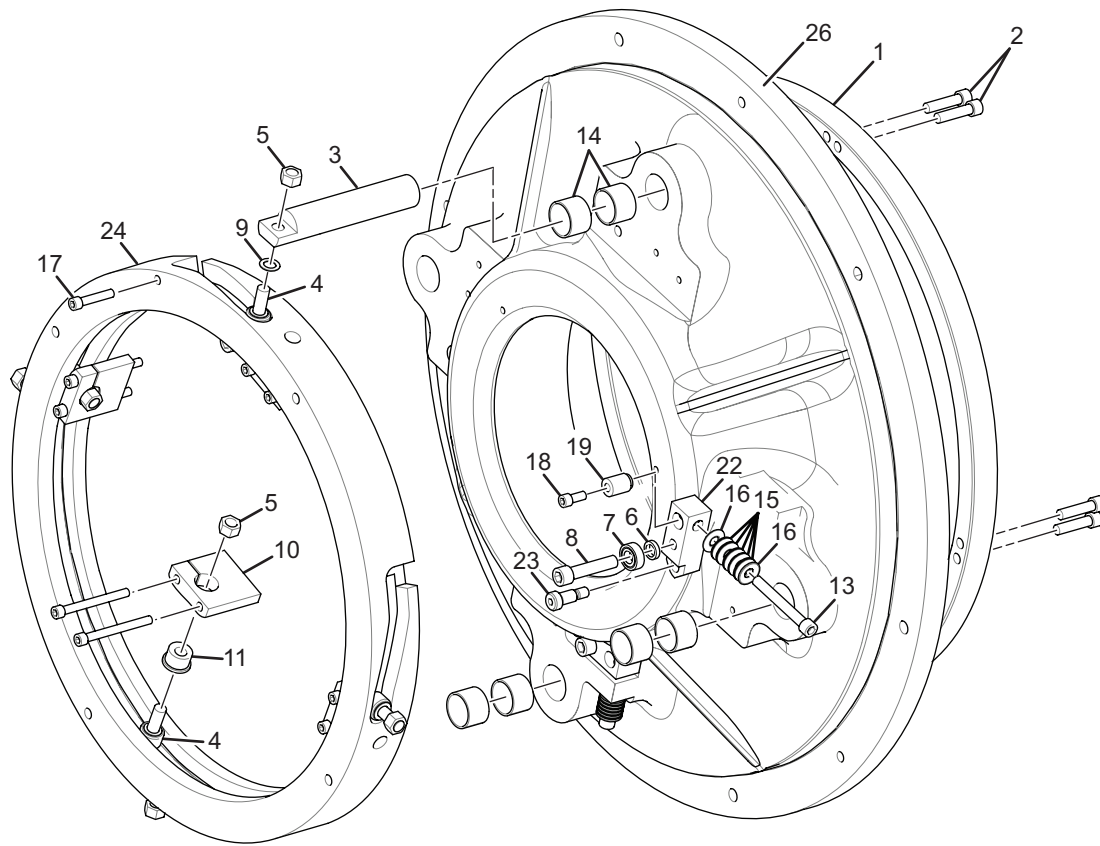
LD15093

## VARIABLE GEOMETRY DIFFUSER

**TABLE 24 - VARIABLE GEOMETRY DIFFUSER (K3/K4)**

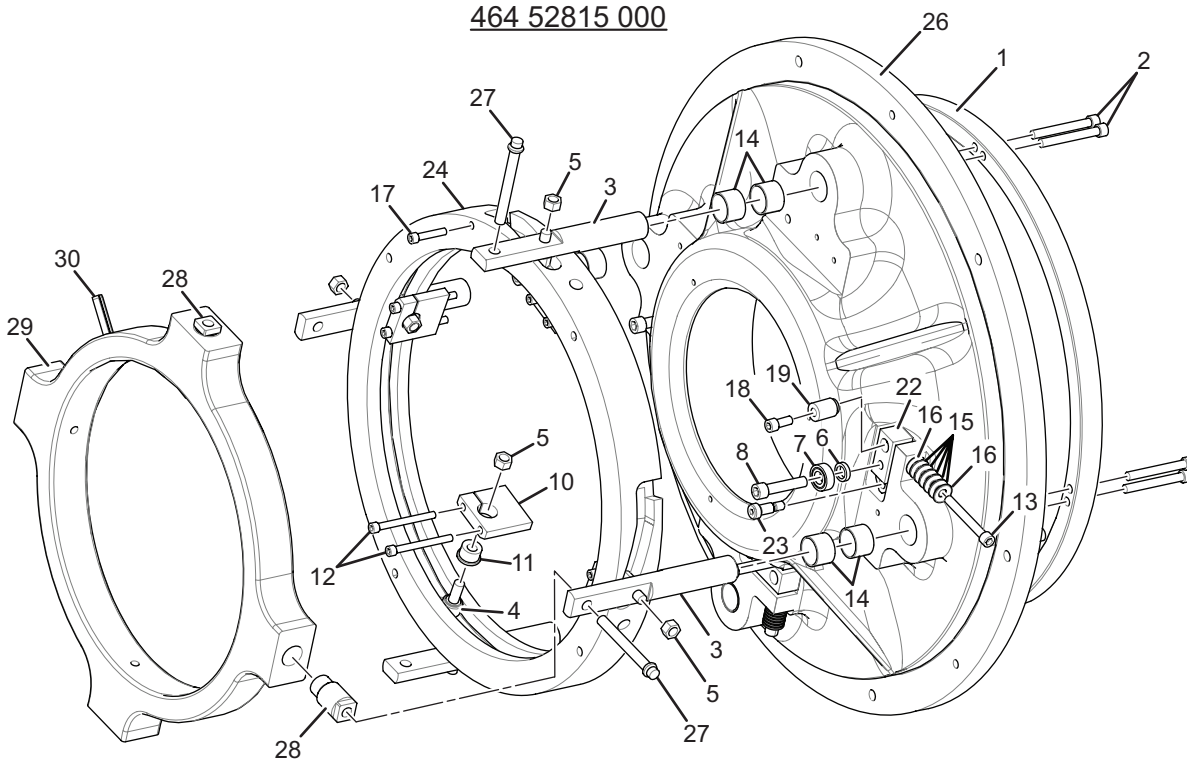
| ITEM | DESCRIPTION                                               | PART NUMBER   | QUANTITY | FIGURE |
|------|-----------------------------------------------------------|---------------|----------|--------|
| -    | VGD Assembly with Nozzle Baseplate (K3) (Prior to 3/2012) | 464 52814 000 | 1        | -      |
| -    | 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)

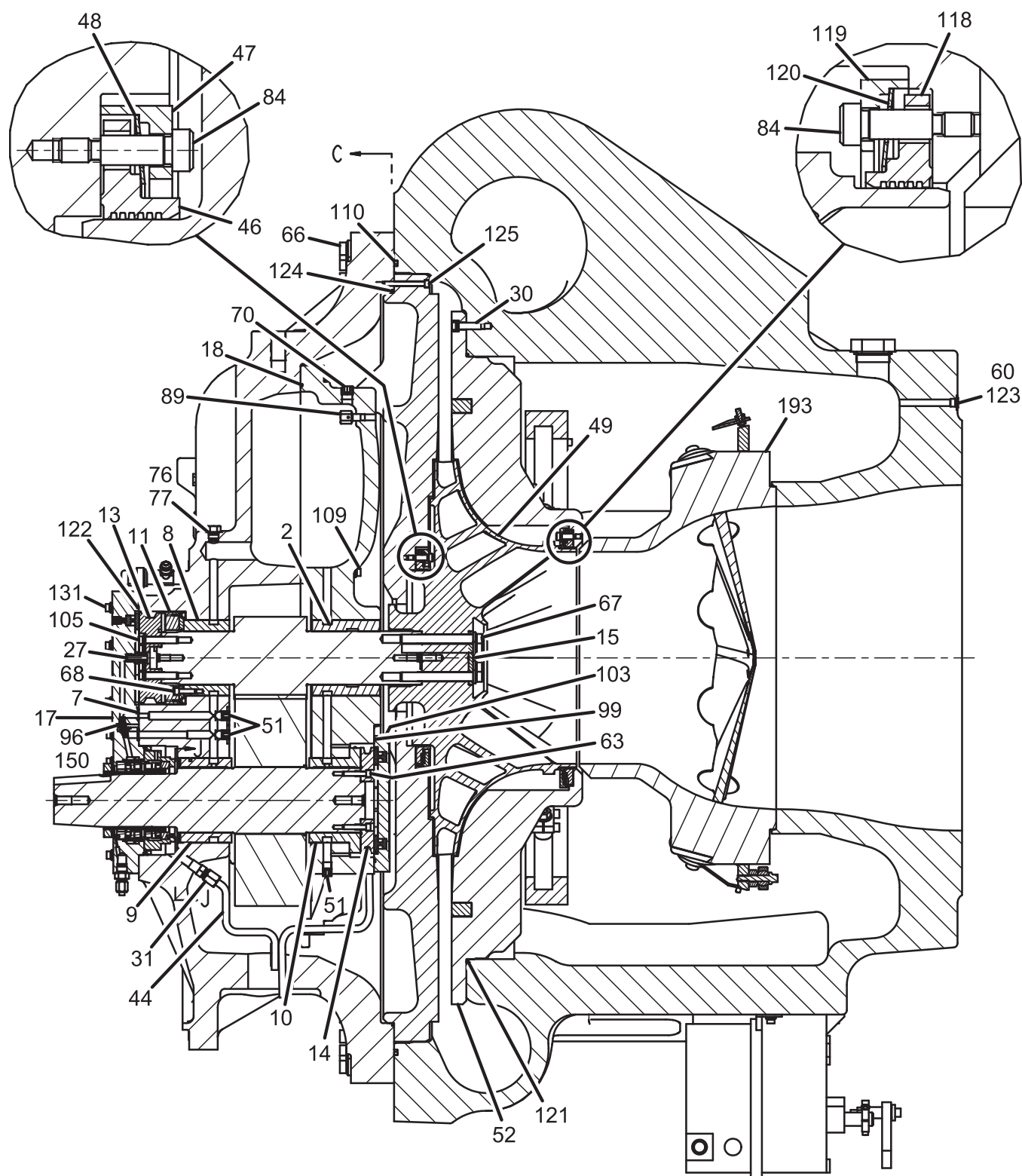
† Included in O-Ring Kit

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

| ITEM        | DESCRIPTION                              | PART NUMBER   | QUANTITY | FIGURE |
|-------------|------------------------------------------|---------------|----------|--------|
| <b>144</b>  | Screw, Cap Hex Soc Hd 5/16               | 021 01447 000 | 1        | 52     |
| <b>145</b>  | Screw, Cap Hex Soc Hd 5/16               | 021 12637 000 | 1        | 52     |
| <b>146</b>  | Nut, Flare Hydraulic 1/4 Od              | 023 09670 000 | 1        | 51     |
| <b>147</b>  | Sleeve, Flare Hydraulic 1/4 Od           | 023 10000 000 | 1        | 51     |
| <b>148</b>  | Spacer, .75lg X .33 Id X .63 Od          | 064 51538 000 | 1        | 52     |
| <b>149</b>  | Spacer, Flanged PRV & VGD                | 064 51854 000 | 2        | 52     |
| <b>150</b>  | O-Ring, Hnbr 00.239id .064thk M          | 028 15846 000 | 4        | 49, 51 |
| <b>193</b>  | Device, PRV (K7)                         | 364 51515 000 | 1        | 49     |
| <b>300A</b> | Support, Rotor with Bearing Housing (K7) | 364 51498 000 | 1        | *      |
| <b>300B</b> | Scroll, Rotor (K7)                       | 064 52419 000 | 1        | *      |
| <b>300C</b> | Plate, Diffuser (K7)                     | 064 51504 000 | 1        | *      |
| <b>301</b>  | 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



**FIGURE 49 - COMPRESSOR COMPONENTS (K7)**

LD15173

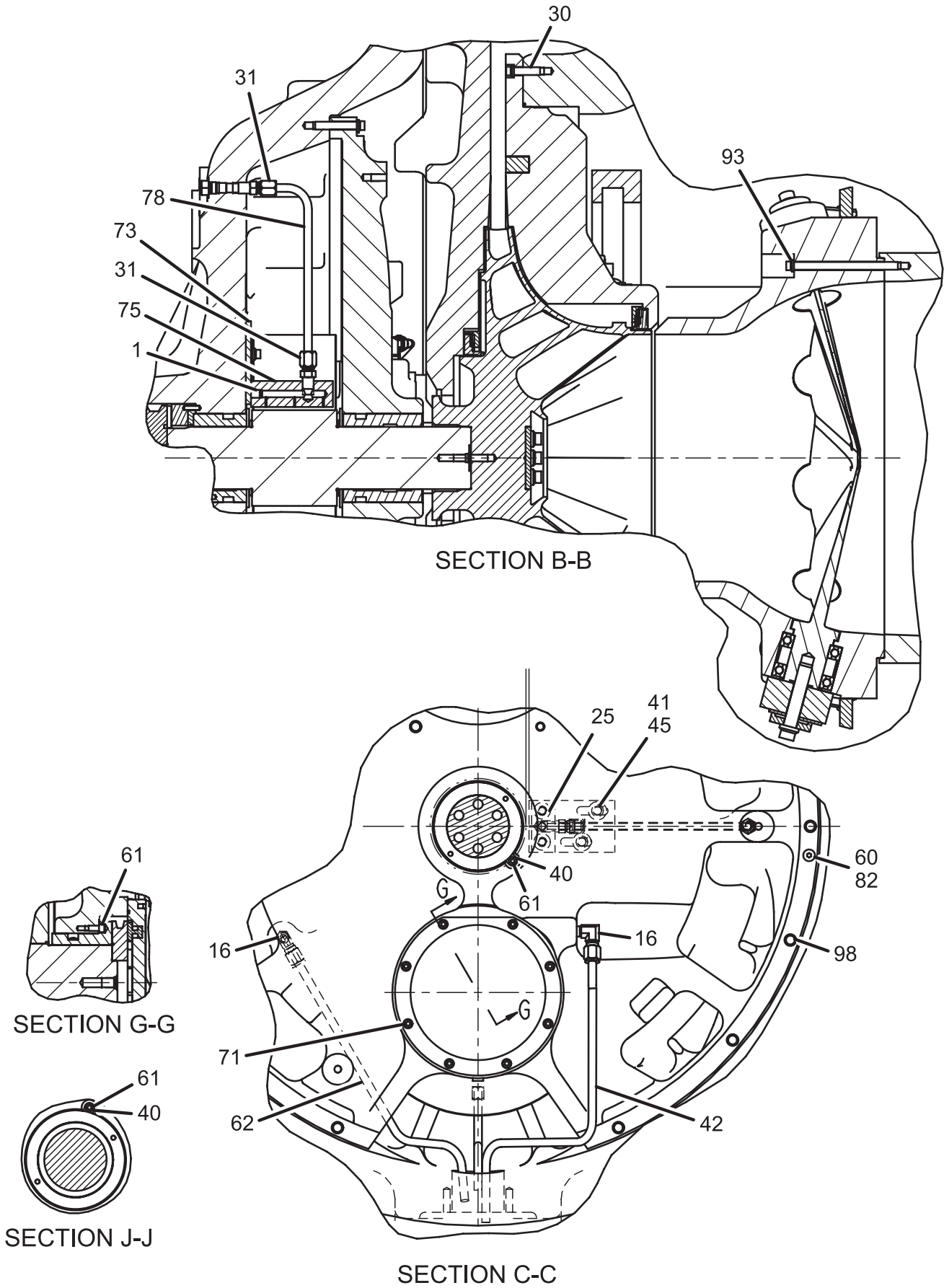
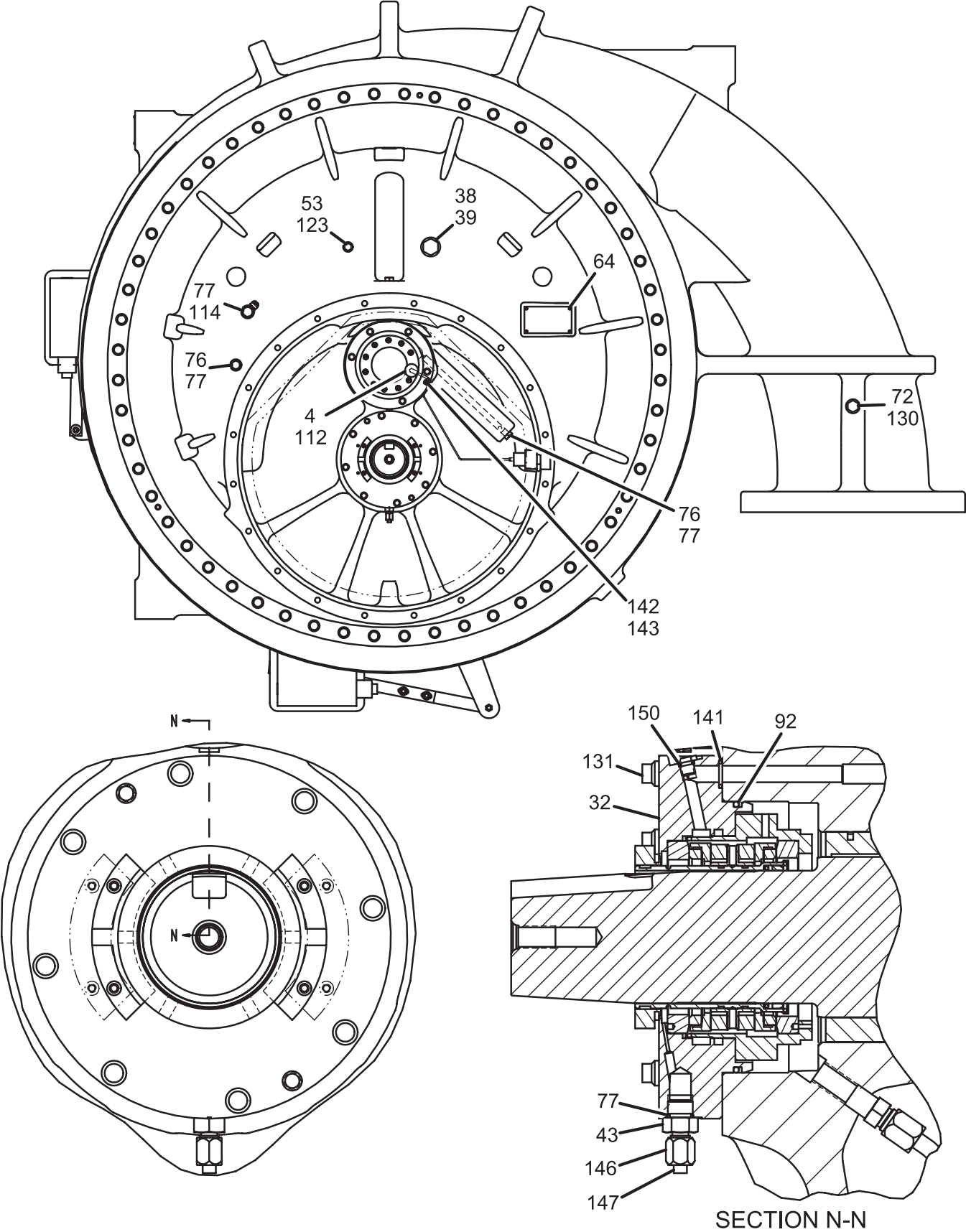


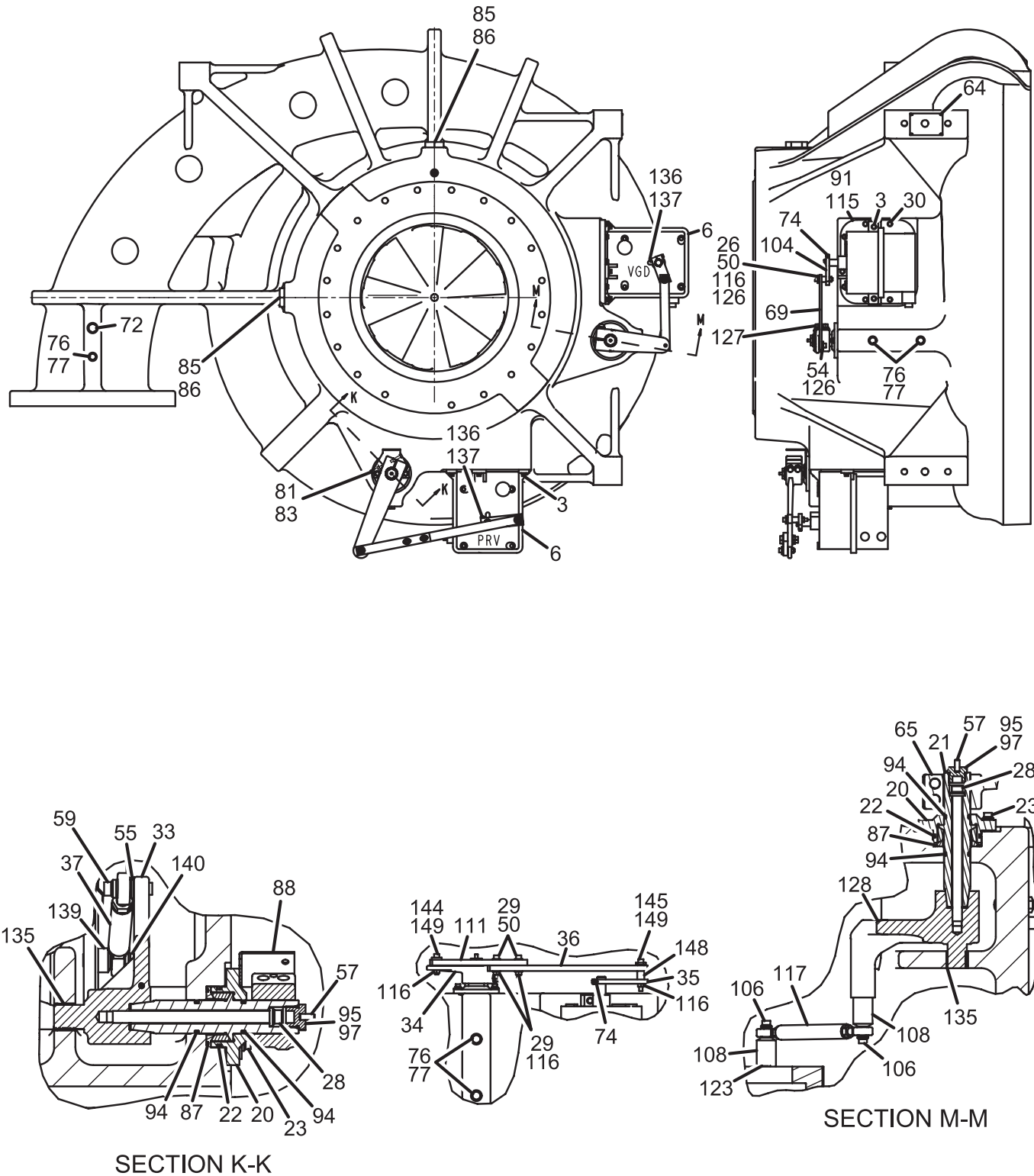
FIGURE 50 - COMPRESSOR COMPONENTS (K7)

LD15174



**FIGURE 51 - COMPRESSOR COMPONENTS (K7)**

LD15175



**FIGURE 52 - COMPRESSOR COMPONENTS (K7)**

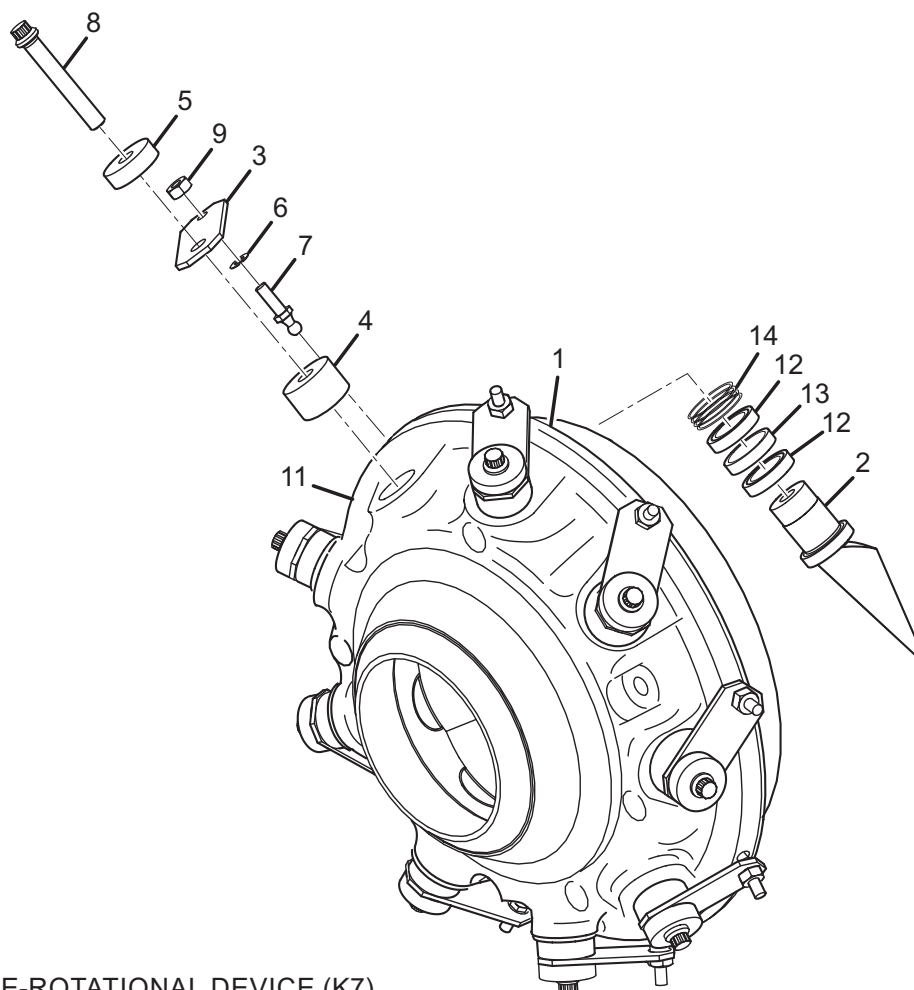
LD15176

## 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)**

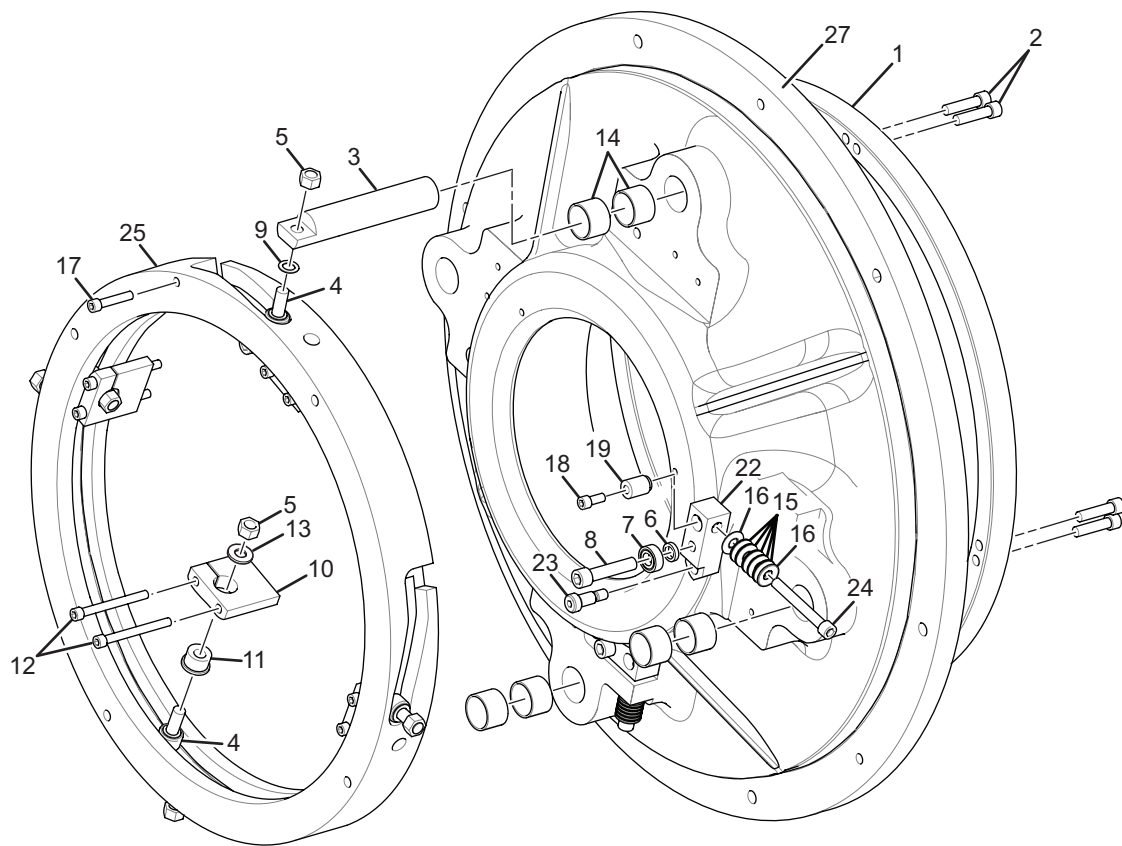
LD15093a

## VARIABLE GEOMETRY DIFFUSER

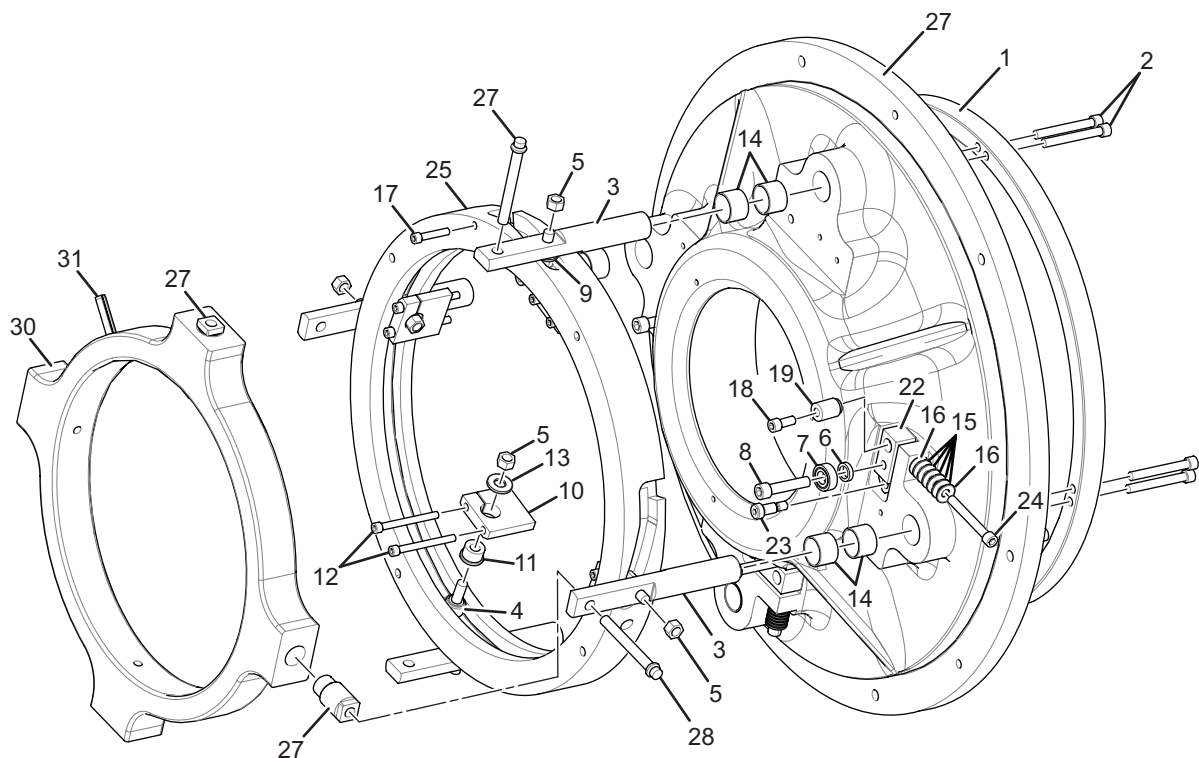
**TABLE 27 - VARIABLE GEOMETRY DIFFUSER (K7)**

| 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.

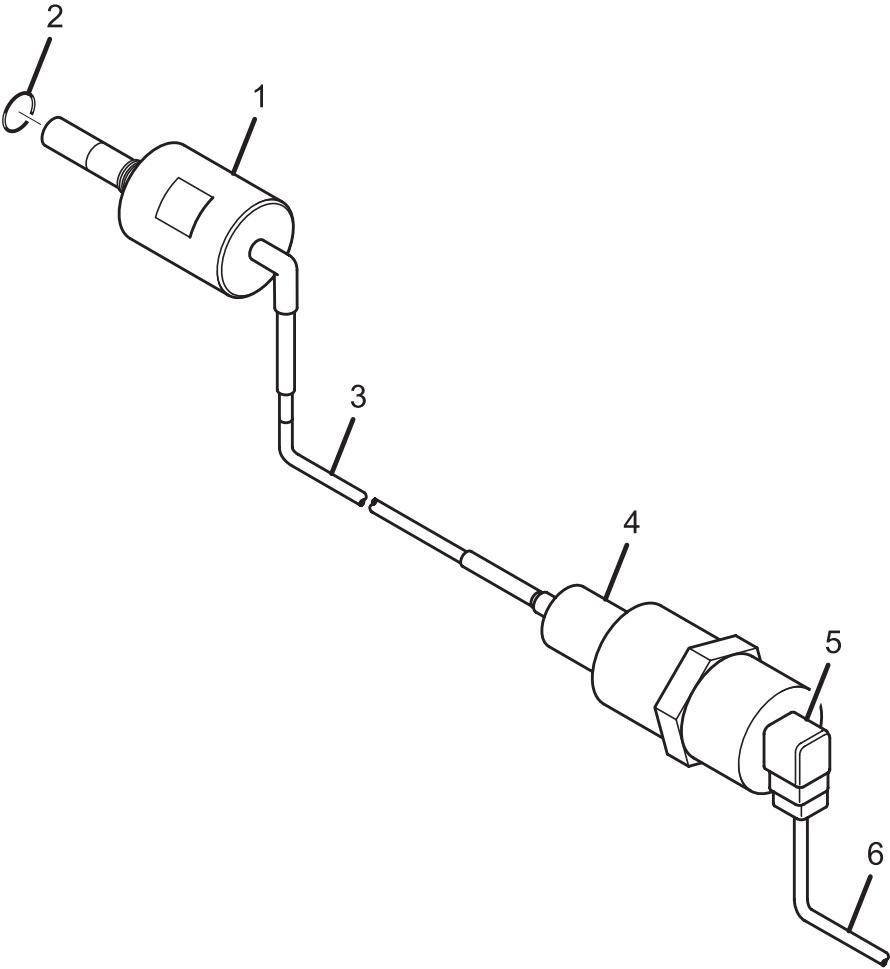


FIGURE 55 - PROXIMITY PROBE KIT

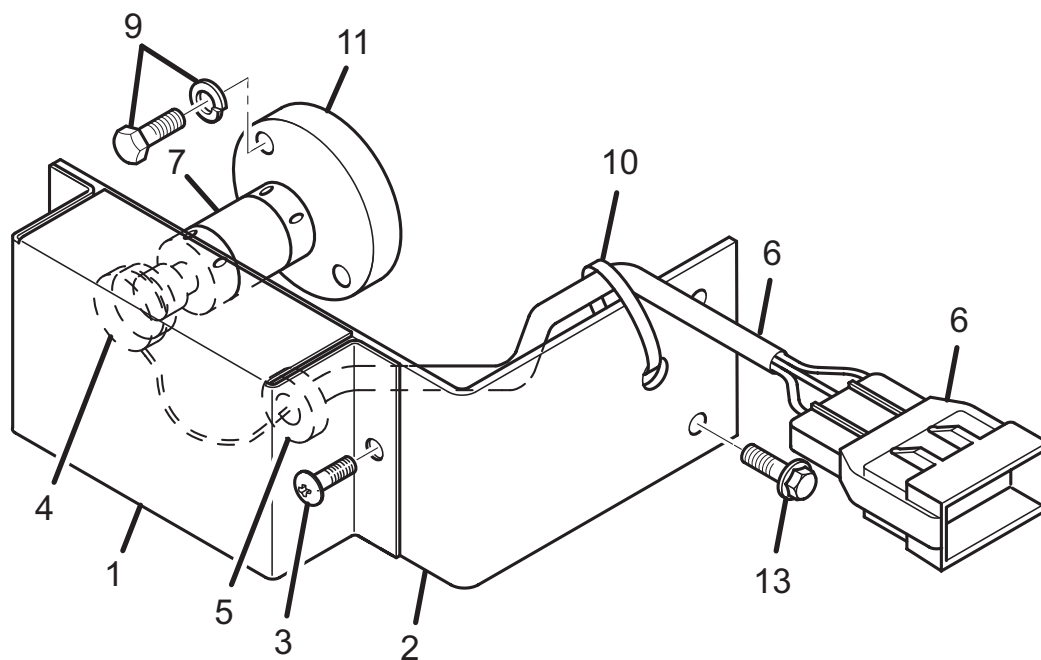
LD15184

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

NOTE: Items with an \* are NOT represented.

LD15187

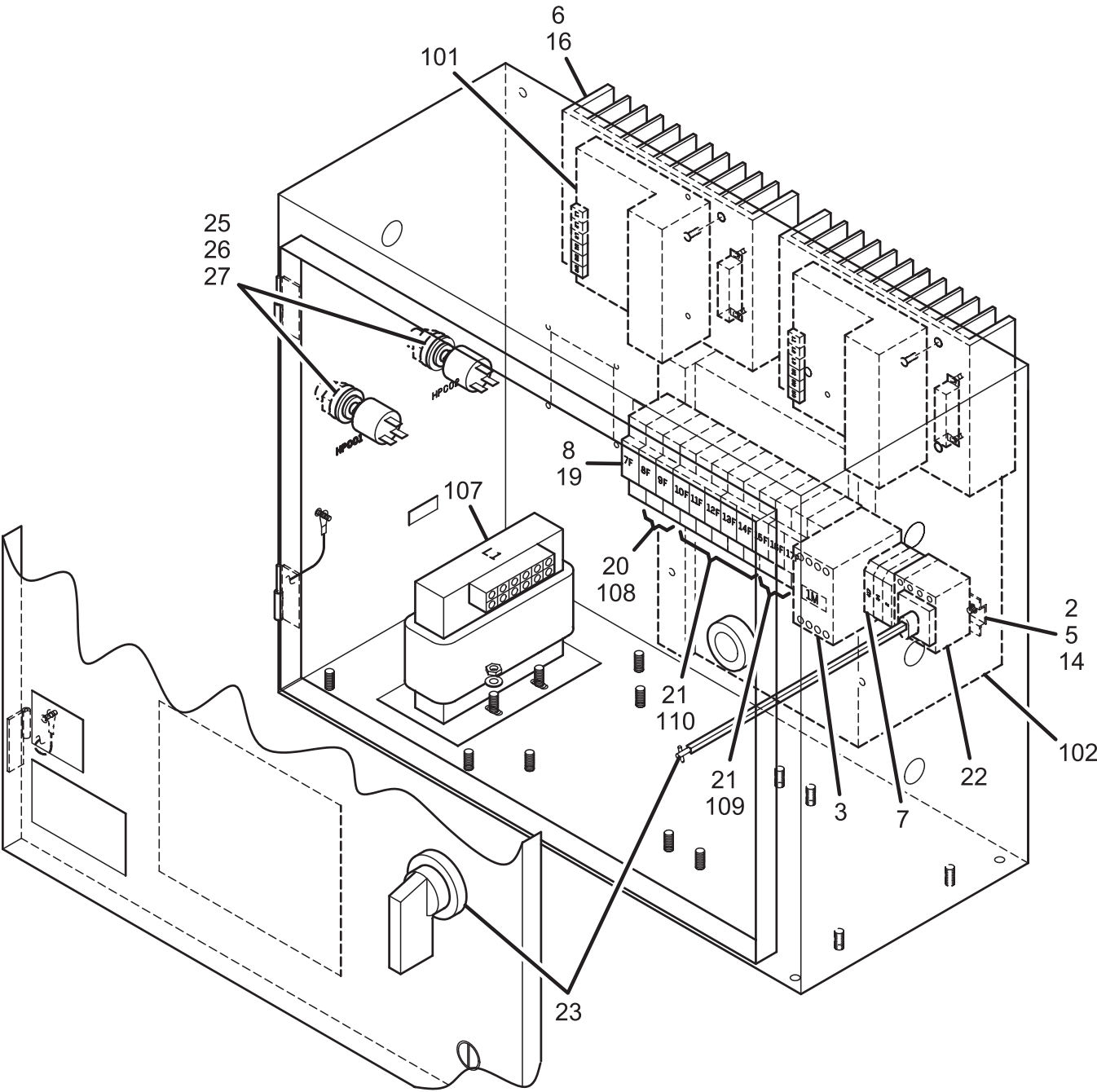
## VARIABLE SPEED OIL PUMP PANEL

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

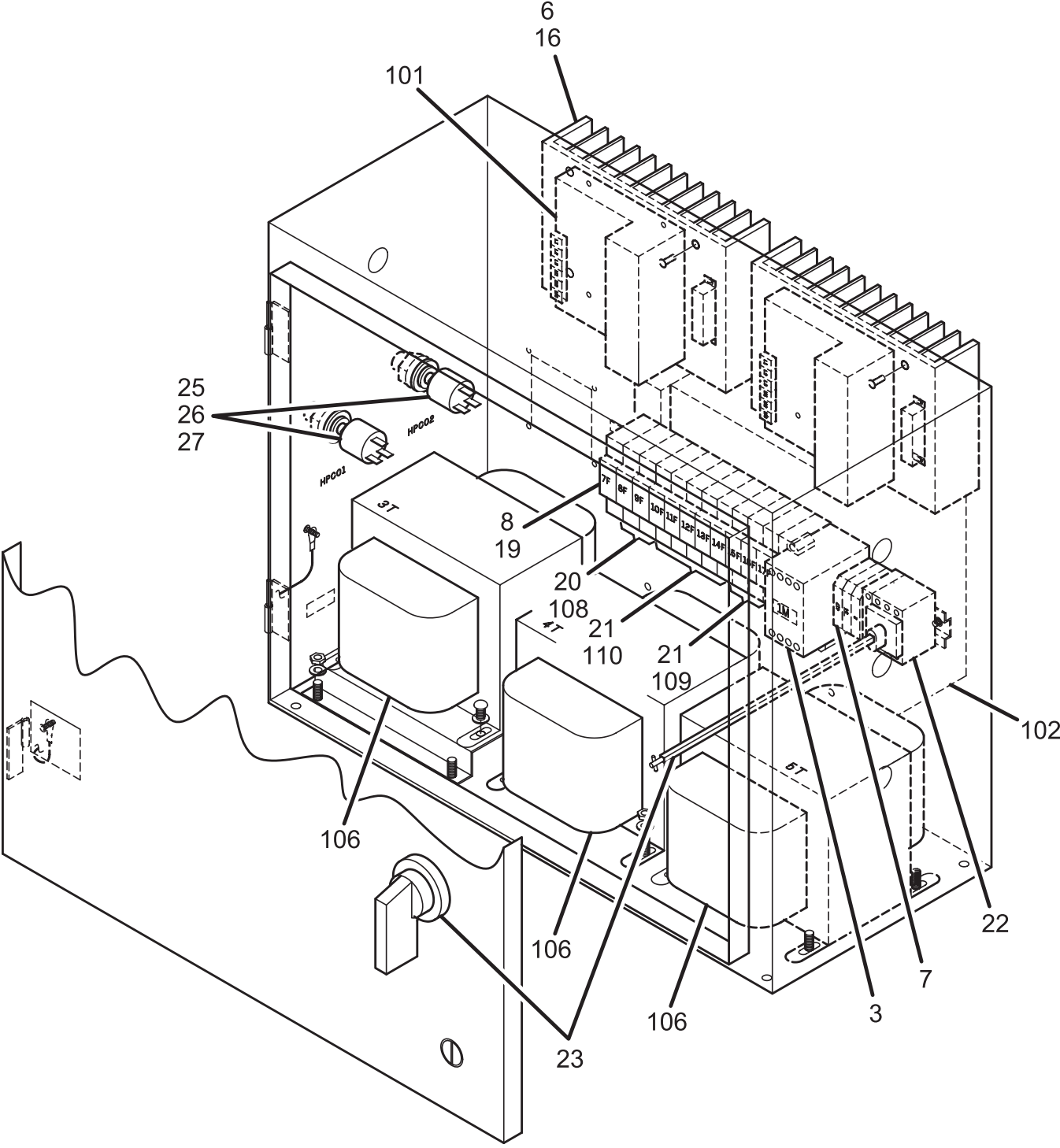
## VARIABLE SPEED OIL PUMP PANEL

### 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**

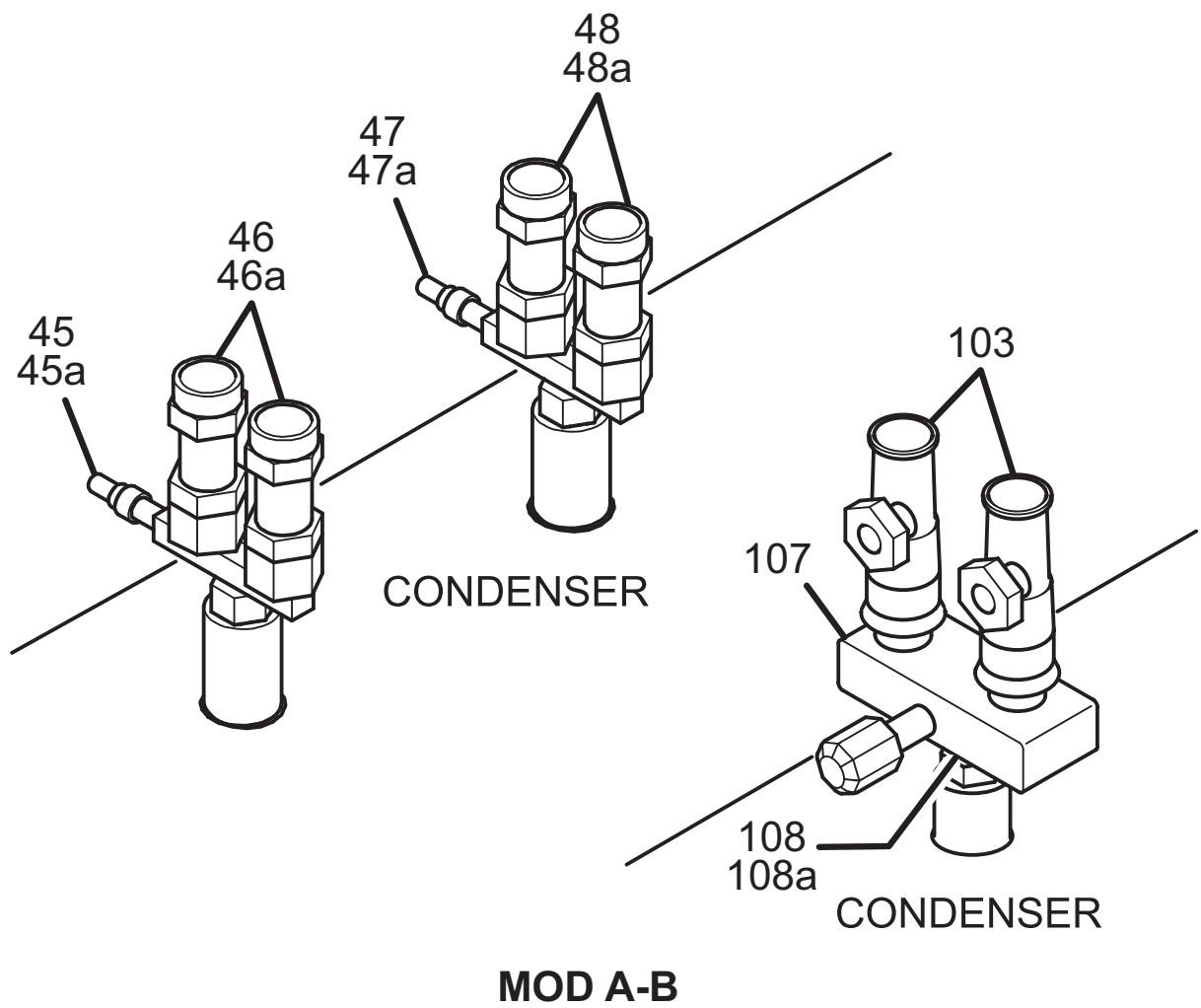
LD15090

## RELIEF VALVES EVAPORATOR

**TABLE 33 - YD EVAPORATOR RELIEF VALVES**

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

NOTE: Items with an \* are NOT represented.



**FIGURE 60 - YD EVAPORATOR RELIEF VALVES**

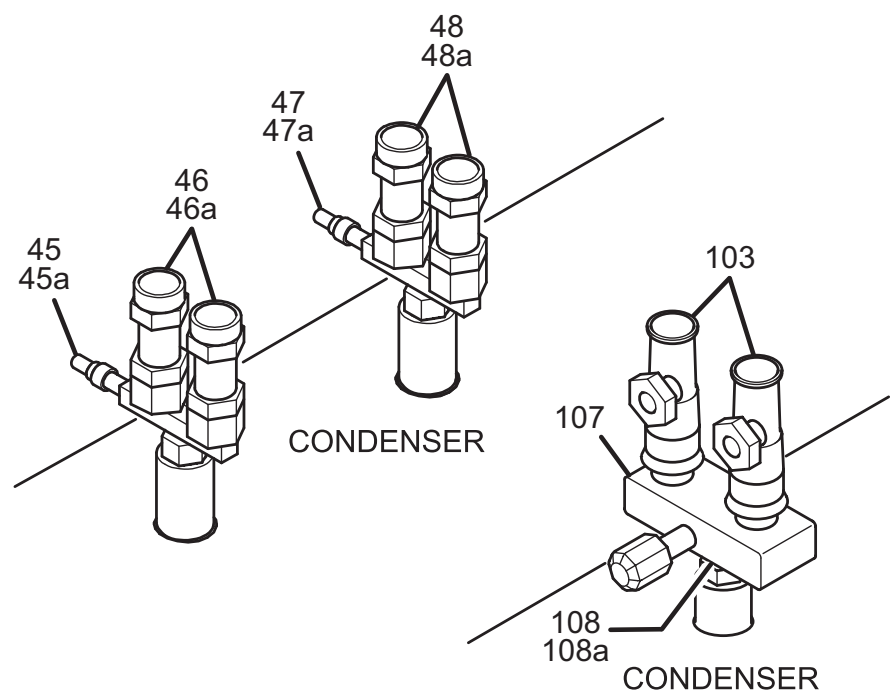
LD13049b

## RELIEF VALVES CONDENSER

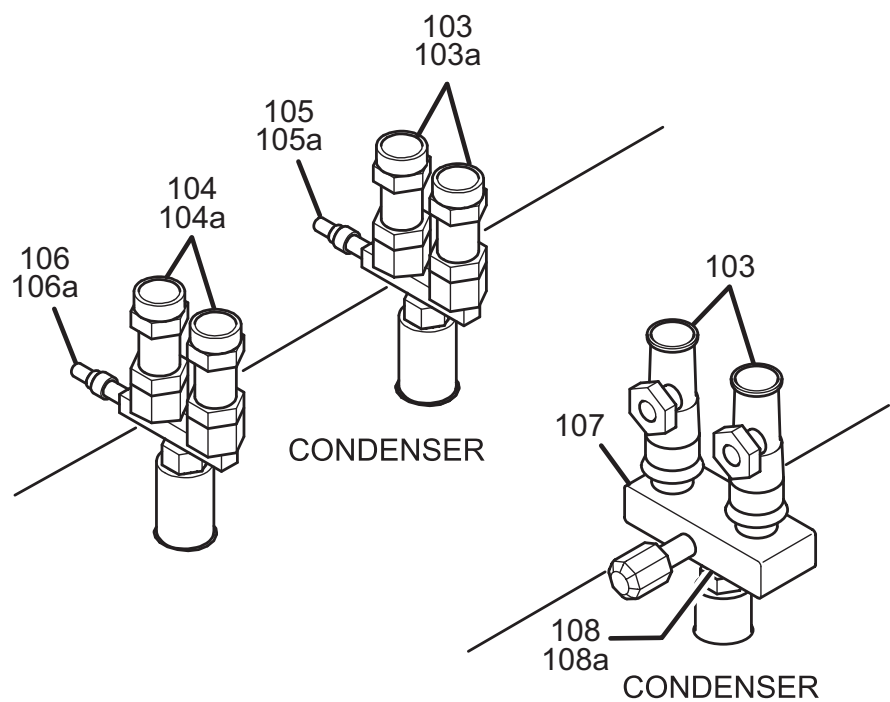
**TABLE 34 - YD CONDENSER RELIEF VALVES**

| ITEM           | DESCRIPTION                                     | PART NUMBER   | QUANTITY | FIGURE |
|----------------|-------------------------------------------------|---------------|----------|--------|
| <b>MOD A-B</b> |                                                 |               |          |        |
| <b>45</b>      | Brass Valve, Stop 3-Way 1-5/8 (J1, J2)          | 022 10074 000 | 1        | 61     |
|                | Steel Valve, Stop 3-Way 1-5/8 (J1, J2)          | 022 12412 000 |          |        |
| <b>45A</b>     | O-ring, Neo 01.475id .118thk (J1, J2)           | 028 12961 017 | 1        | 61     |
| <b>46</b>      | Valve, Relief 1-5/8-12un-2a (J1, J2)            | 022 10079 000 | 2        | 61     |
| <b>46A</b>     | O-ring, Neo 01.475id .118thk (J1, J2)           | 028 12961 017 | 2        | 61     |
| <b>47</b>      | Brass Valve, Stop 3-Way 1-5/16 (J1, J2)         | 022 10073 000 | 1        | 61     |
|                | Steel Valve, Stop 3-Way 1-5/16 (J1, J2)         | 022 12411 000 |          |        |
| <b>47A</b>     | O-ring, Neo 01.17id .116thk (J1, J2)            | 028 12961 008 | 1        | 61     |
| <b>48</b>      | Valve, Relief 1-5/16-12un-2a (J1, J2)           | 022 10078 000 | 2        | 61     |
| <b>48A</b>     | O-ring, Neo 01.17id .116thk (J1, J2)            | 028 12961 008 | 2        | 61     |
| <b>103</b>     | Valve, Relief (J3-J5, J7)                       | 022 07893 028 | 1        | 61     |
| <b>103A</b>    | O-ring, Neo 01.475id .118thk (J3-J5, J7)        | 028 12961 017 | 1        | 61     |
| <b>107</b>     | Valve, Stop Dual Manifold (J3-J5, J7)           | 022 07892 003 | 1        | 61     |
| <b>108</b>     | Adapter, Male Pipe (J3-J5, J7)                  | 023 21894 000 | 1        | 61     |
| <b>108A</b>    | O-ring, Neo 01.475id .118thk (J3-J5, J7)        | 028 12961 017 | 1        | 61     |
| <b>MOD C</b>   |                                                 |               |          |        |
| <b>103</b>     | Valve, Relief 1-5/16-12un-2a (L, M, B Shells)   | 022 10078 000 | 2        | 61     |
| <b>103A</b>    | O-ring, Neo 01.17id .116thk (L, M, B Shells)    | 028 12961 008 | 2        | 61     |
| <b>103</b>     | Valve, Relief 1-5/8-12un-2a (C, D Shells)       | 022 10079 000 | 2        | 61     |
| <b>103A</b>    | O-ring, Neo 01.475id .118thk (C, D Shells)      | 028 12961 017 | 2        | 61     |
| <b>103</b>     | Valve, Relief (E, F, K Shells)                  | 022 07893 028 | 2        | 61     |
| <b>103A</b>    | O-ring, Neo 01.475id .118thk (E, F, K Shells)   | 028 12961 017 | 2        | 61     |
| <b>104</b>     | Valve, Relief 1-5/8-12un-2a (L, M, B Shells)    | 022 10079 000 | 2        | 61     |
| <b>104A</b>    | O-ring, Neo 01.475id .118thk (L, M, B Shells)   | 028 12961 017 | 2        | 61     |
| <b>105</b>     | Brass Valve, Stop 3-Way 1-5/16 (L, M, B Shells) | 022 10073 000 | 1        | 61     |
|                | Steel Valve, Stop 3-Way 1-5/16 (L, M, B Shells) | 022 12411 000 |          |        |
| <b>105A</b>    | O-ring, Neo 01.17id .116thk (L, M, B Shells)    | 028 12961 008 | 1        | 61     |
| <b>106</b>     | Brass Valve, Stop 3-Way 1-5/8 (L, M, B Shells)  | 022 10074 000 | 1        | 61     |
|                | Steel Valve, Stop 3-Way 1-5/8 (L, M, B Shells)  | 022 12412 000 |          |        |
| <b>106A</b>    | O-ring, Neo 01.475id .118thk (L, M, B Shells)   | 028 12961 017 | 1        | 61     |
| <b>106</b>     | Brass Valve, Stop 3-Way 1-5/8 (C, D Shells)     | 022 10074 000 | 2        | 61     |
|                | Steel Valve, Stop 3-Way 1-5/8 (C, D Shells)     | 022 12412 000 |          |        |
| <b>106A</b>    | O-ring, Neo 01.475id .118thk (C, D Shells)      | 028 12961 017 | 2        | 61     |
| <b>107</b>     | Valve, Stop Dual Manifold (E, F, K Shells)      | 022 07892 003 | 1        | 61     |
| <b>108</b>     | Adapter, Male Pipe (E, F, K Shells)             | 023 21894 000 | 1        | 61     |
| <b>108A</b>    | 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<br>CODE | TUBE QTY. |               | STANDARD  | OPTIONS   |           |           |           |           |           |
|---------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|               | COND      | SUB<br>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<br>CODE | TUBE QTY. |               | OPTIONS   |           |           |
|---------------|-----------|---------------|-----------|-----------|-----------|
|               | COND      | SUB<br>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   |
| <b>BB<sup>1</sup></b> | 1,826     | 140        | 007 09608 | 007 09626 | 007 09627 | 007 09861 | 007 09862 | 007 09633 | 007 09634 |
| <b>BC<sup>1</sup></b> | 1,993     |            |           |           |           |           |           |           |           |
| <b>BD<sup>1</sup></b> | 2,112     |            |           |           |           |           |           |           |           |
| <b>CB<sup>2</sup></b> | 1,799     | 180        | 007 10051 | 007 10052 | 007 10053 | 007 10040 | 007 10041 | 007 10042 | 007 10043 |
| <b>CC<sup>2</sup></b> | 2,029     |            |           |           |           |           |           |           |           |
| <b>CD<sup>2</sup></b> | 2,325     |            |           |           |           |           |           |           |           |
| <b>DB<sup>1</sup></b> | 2,220     | 180        | 007 09608 | 007 09626 | 007 09627 | 007 09861 | 007 09862 | 007 09633 | 007 09634 |
| <b>DC<sup>1</sup></b> | 2,496     |            |           |           |           |           |           |           |           |
| <b>DD<sup>1</sup></b> | 2,777     |            |           |           |           |           |           |           |           |
| <b>EB<sup>2</sup></b> | 2,220     | 180        | 007 10051 | 007 10052 | 007 10053 | 007 10040 | 007 10041 | 007 10042 | 007 10043 |
| <b>EC<sup>2</sup></b> | 2,496     |            |           |           |           |           |           |           |           |
| <b>ED<sup>2</sup></b> | 2,504     |            |           |           |           |           |           |           |           |
| <b>FB<sup>1</sup></b> | 2,668     | 224        | 007 09608 | 007 09626 | 007 09627 | 007 09861 | 007 09862 | 007 09633 | 007 09634 |
| <b>FC<sup>1</sup></b> | 2,978     |            |           |           |           |           |           |           |           |
| <b>FD<sup>1</sup></b> | 3,221     |            |           |           |           |           |           |           |           |
| <b>GB<sup>2</sup></b> | 2,668     | 224        | 007 10051 | 007 10052 | 007 10053 | 007 10040 | 007 10041 | 007 10042 | 007 10043 |
| <b>GC<sup>2</sup></b> | 2,978     |            |           |           |           |           |           |           |           |
| <b>GD<sup>2</sup></b> | 3,221     |            |           |           |           |           |           |           |           |
| <b>HB<sup>1</sup></b> | 3,158     | 256        | 007 09608 | 007 09626 | 007 09627 | 007 09861 | 007 09862 | 007 09633 | 007 09634 |
| <b>HC<sup>1</sup></b> | 3,539     |            |           |           |           |           |           |           |           |
| <b>HD<sup>1</sup></b> | 3,754     |            |           |           |           |           |           |           |           |
| <b>KB<sup>2</sup></b> | 3,158     | 256        | 007 10051 | 007 10052 | 007 10053 | 007 10040 | 007 10041 | 007 10042 | 007 10043 |
| <b>KC<sup>2</sup></b> | 3,539     |            |           |           |           |           |           |           |           |
| <b>KD<sup>2</sup></b> | 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                |
| <b>B2<sup>1</sup></b> | 858       | 140        | C=007 10065<br>S=007 09608 | C=007 10066<br>S=007 09626 | C=007 10067<br>S=007 09627 | C=007 10037<br>S=007 09626 |
| <b>B3<sup>1</sup></b> | 956       |            |                            |                            |                            |                            |
| <b>B4<sup>1</sup></b> | 1,053     |            |                            |                            |                            |                            |
| <b>B5<sup>1</sup></b> | 1,171     |            |                            |                            |                            |                            |
| <b>C2<sup>2</sup></b> | 710       | 180        | C=007 10068<br>S=007 10051 | C=007 10069<br>S=007 10052 | C=007 10070<br>S=007 10053 | C=007 10124<br>S=007 10052 |
| <b>C3<sup>2</sup></b> | 955       |            |                            |                            |                            |                            |
| <b>C4<sup>2</sup></b> | 1,215     |            |                            |                            |                            |                            |
| <b>D2<sup>1</sup></b> | 1,071     | 180        | C=007 10065<br>S=007 09608 | C=007 10066<br>S=007 09626 | C=007 10067<br>S=007 09627 | C=007 10037<br>S=007 09626 |
| <b>D3<sup>1</sup></b> | 1,190     |            |                            |                            |                            |                            |
| <b>D4<sup>1</sup></b> | 1,321     |            |                            |                            |                            |                            |
| <b>D5<sup>1</sup></b> | 1,507     |            |                            |                            |                            |                            |
| <b>E2<sup>2</sup></b> | 1,071     | 180        | C=007 10068<br>S=007 10051 | C=007 10069<br>S=007 10052 | C=007 10070<br>S=007 10053 | C=007 10124<br>S=007 10052 |
| <b>E3<sup>2</sup></b> | 1,190     |            |                            |                            |                            |                            |
| <b>E4<sup>2</sup></b> | 1,321     |            |                            |                            |                            |                            |
| <b>E5<sup>2</sup></b> | 1,507     |            |                            |                            |                            |                            |
| <b>F2<sup>1</sup></b> | 1,293     | 224        | C=007 10065<br>S=007 09608 | C=007 10066<br>S=007 09626 | C=007 10067<br>S=007 09627 | C=007 10037<br>S=007 09626 |
| <b>F3<sup>1</sup></b> | 1,438     |            |                            |                            |                            |                            |
| <b>F4<sup>1</sup></b> | 1,597     |            |                            |                            |                            |                            |
| <b>F5<sup>1</sup></b> | 1,774     |            |                            |                            |                            |                            |
| <b>G2<sup>2</sup></b> | 1,293     | 224        | C=007 10068<br>S=007 10051 | C=007 10069<br>S=007 10052 | C=007 10070<br>S=007 10053 | C=007 10124<br>S=007 10052 |
| <b>G3<sup>2</sup></b> | 1,438     |            |                            |                            |                            |                            |
| <b>G4<sup>2</sup></b> | 1,597     |            |                            |                            |                            |                            |
| <b>G5<sup>2</sup></b> | 1,774     |            |                            |                            |                            |                            |
| <b>H2<sup>1</sup></b> | 1,474     | 256        | C=007 10065<br>S=007 09608 | C=007 10066<br>S=007 09626 | C=007 10067<br>S=007 09627 | C=007 10037<br>S=007 09626 |
| <b>H3<sup>1</sup></b> | 1,638     |            |                            |                            |                            |                            |
| <b>H4<sup>1</sup></b> | 1,819     |            |                            |                            |                            |                            |
| <b>H5<sup>1</sup></b> | 2,077     |            |                            |                            |                            |                            |
| <b>K2<sup>2</sup></b> | 1,474     | 256        | C=007 10068<br>S=007 10051 | C=007 10069<br>S=007 10052 | C=007 10070<br>S=007 10053 | C=007 10124<br>S=007 10052 |
| <b>K3<sup>2</sup></b> | 1,638     |            |                            |                            |                            |                            |
| <b>K4<sup>2</sup></b> | 1,819     |            |                            |                            |                            |                            |
| <b>K5<sup>2</sup></b> | 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   |
| <b>BB<sup>1</sup></b> | 1,215     | 007 10017 | 007 10018 | 007 10019 | 007 09622 | 007 09623 |
| <b>BC<sup>1</sup></b> | 1,484     |           |           |           |           |           |
| <b>BD<sup>1</sup></b> | 1,742     |           |           |           |           |           |
| <b>CB<sup>2</sup></b> | 1,537     | 007 10048 | 007 10049 | 007 10050 | 007 10038 | 007 10039 |
| <b>CC<sup>2</sup></b> | 1,699     |           |           |           |           |           |
| <b>CD<sup>2</sup></b> | 1,850     |           |           |           |           |           |
| <b>DB<sup>1</sup></b> | 2,004     | 007 10017 | 007 10018 | 007 10019 | 007 09622 | 007 09623 |
| <b>DC<sup>1</sup></b> | 2,258     |           |           |           |           |           |
| <b>DD<sup>1</sup></b> | 2,504     |           |           |           |           |           |
| <b>EB<sup>2</sup></b> | 2,004     | 007 10048 | 007 10049 | 007 10050 | 007 10038 | 007 10039 |
| <b>EC<sup>2</sup></b> | 2,258     |           |           |           |           |           |
| <b>ED<sup>2</sup></b> | 2,504     |           |           |           |           |           |
| <b>FB<sup>1</sup></b> | 2,522     | 007 10017 | 007 10018 | 007 10019 | 007 09622 | 007 09623 |
| <b>FC<sup>1</sup></b> | 2,822     |           |           |           |           |           |
| <b>FD<sup>1</sup></b> | 3,126     |           |           |           |           |           |
| <b>GB<sup>2</sup></b> | 2,522     | 007 10048 | 007 10049 | 007 10050 | 007 10038 | 007 10039 |
| <b>GC<sup>2</sup></b> | 2,822     |           |           |           |           |           |
| <b>GD<sup>2</sup></b> | 3,126     |           |           |           |           |           |
| <b>HB<sup>1</sup></b> | 2,888     | 007 10017 | 007 10018 | 007 10019 | 007 09622 | 007 09623 |
| <b>HC<sup>1</sup></b> | 3,176     |           |           |           |           |           |
| <b>HD<sup>1</sup></b> | 3,548     |           |           |           |           |           |
| <b>KB<sup>2</sup></b> | 2,888     | 007 10048 | 007 10049 | 007 10050 | 007 10038 | 007 10039 |
| <b>KC<sup>2</sup></b> | 3,176     |           |           |           |           |           |
| <b>KD<sup>2</sup></b> | 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   |
| <b>B2<sup>1</sup></b> | 655       | 007 10036 | 007 10096 | 007 10097 | 007 10224 | 007 10225 | 007 10226 |
| <b>B3<sup>1</sup></b> | 779       |           |           |           |           |           |           |
| <b>B4<sup>1</sup></b> | 887       |           |           |           |           |           |           |
| <b>C2<sup>2</sup></b> | 807       | 007 10098 | 007 10099 | 007 10100 | 007 10227 | 007 10228 | 007 10229 |
| <b>C3<sup>2</sup></b> | 954       |           |           |           |           |           |           |
| <b>C4<sup>2</sup></b> | 1,063     |           |           |           |           |           |           |
| <b>D2<sup>1</sup></b> | 1,064     | 007 10036 | 007 10096 | 007 10097 | 007 10224 | 007 10225 | 007 10226 |
| <b>D3<sup>1</sup></b> | 1,178     |           |           |           |           |           |           |
| <b>D4<sup>1</sup></b> | 1,298     |           |           |           |           |           |           |
| <b>E2<sup>2</sup></b> | 1,064     | 007 10098 | 007 10099 | 007 10100 | 007 10227 | 007 10228 | 007 10229 |
| <b>E3<sup>2</sup></b> | 1,178     |           |           |           |           |           |           |
| <b>E4<sup>2</sup></b> | 1,298     |           |           |           |           |           |           |
| <b>F2<sup>1</sup></b> | 1,332     | 007 10036 | 007 10096 | 007 10097 | 007 10224 | 007 10225 | 007 10226 |
| <b>F3<sup>1</sup></b> | 1,480     |           |           |           |           |           |           |
| <b>F4<sup>1</sup></b> | 1,642     |           |           |           |           |           |           |
| <b>G2<sup>2</sup></b> | 1,332     | 007 10098 | 007 10099 | 007 10100 | 007 10227 | 007 10228 | 007 10229 |
| <b>G3<sup>2</sup></b> | 1,480     |           |           |           |           |           |           |
| <b>G4<sup>2</sup></b> | 1,642     |           |           |           |           |           |           |
| <b>H2<sup>1</sup></b> | 1,490     | 007 10036 | 007 10096 | 007 10097 | 007 10224 | 007 10225 | 007 10226 |
| <b>H3<sup>1</sup></b> | 1,656     |           |           |           |           |           |           |
| <b>H4<sup>1</sup></b> | 1,840     |           |           |           |           |           |           |
| <b>K2<sup>2</sup></b> | 1,490     | 007 10098 | 007 10099 | 007 10100 | 007 10227 | 007 10228 | 007 10229 |
| <b>K3<sup>2</sup></b> | 1,656     |           |           |           |           |           |           |
| <b>K4<sup>2</sup></b> | 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<br>CODE | TUBE<br>QTY. |               | STANDARD  | OPTIONS      |              |               |              |              |           |
|---------------|--------------|---------------|-----------|--------------|--------------|---------------|--------------|--------------|-----------|
|               | COND         | SUB<br>COOLER |           | COPPER       |              | COPPER-NICKEL |              | SMOOTH BORE  |           |
|               |              |               | .025 WALL | .028<br>WALL | .035<br>WALL | .028<br>WALL  | .035<br>WALL | .028<br>WALL | .035 WALL |
| LB            | 1436         | 144           | 007 09608 | 007<br>09626 | 007<br>09627 | 007 09861     | 007<br>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<br>CODE | TUBE<br>QTY. |               | STANDARD  | OPTIONS      |              |               |              |              |              |
|---------------|--------------|---------------|-----------|--------------|--------------|---------------|--------------|--------------|--------------|
|               | COND         | SUB<br>COOLER |           | COPPER       |              | COPPER-NICKEL |              | SMOOTH BORE  |              |
|               |              |               | .025 WALL | .028<br>WALL | .035<br>WALL | .028<br>WALL  | .035<br>WALL | .028<br>WALL | .035<br>WALL |
| MB            | 1436         | 144           | 007 10051 | 007 10052    | 007 10053    | 007 10040     | 007 10041    | 007 10042    | 007<br>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<br>CODE | TUBE<br>QTY. |               | Standard  |           | OPTIONS   |           |           |           |
|---------------|--------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
|               |              |               | .025 Wall |           | .028 Wall |           | .035 Wall |           |
|               | COND         | SUB<br>COOLER | 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<br>CODE | TUBE<br>QTY. |               | Standard  |           | OPTIONS   |           |           |           |
|---------------|--------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
|               |              |               | .025 Wall |           | .028 Wall |           | .035 Wall |           |
|               | COND         | SUB<br>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<br>CODE | TUBE<br>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**

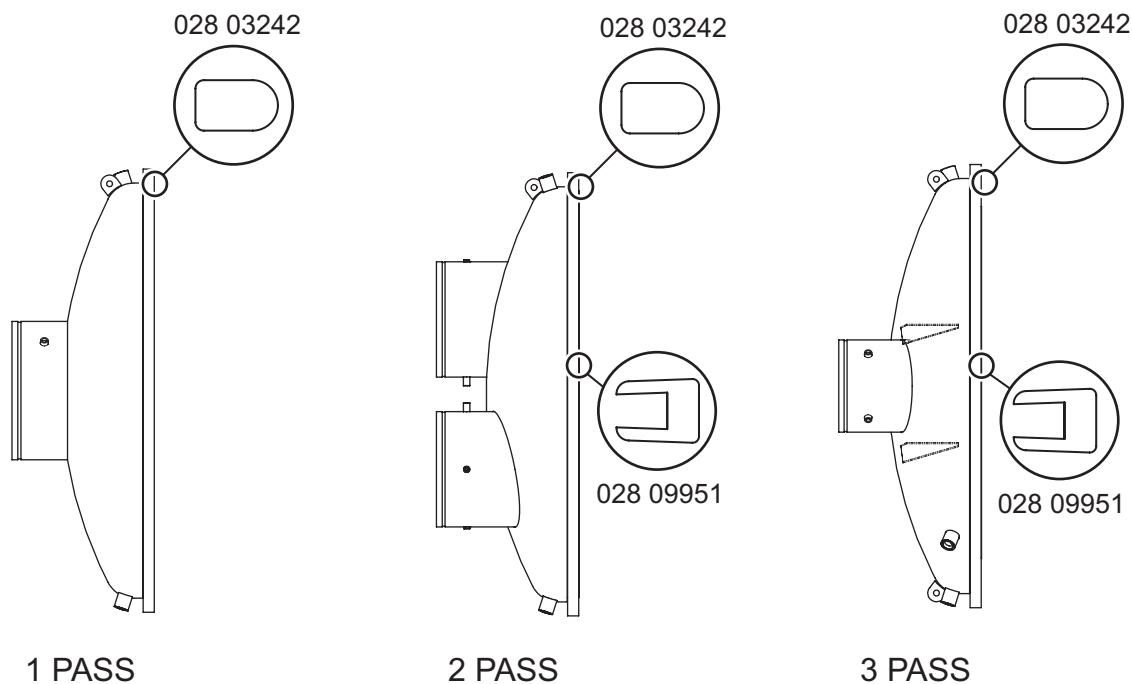
| SHELL<br>CODE | TUBE<br>QTY. | STANDARD  | OPTIONS   |           |
|---------------|--------------|-----------|-----------|-----------|
|               |              | COPPER    |           |           |
|               |              | .025 WALL | .028 WALL | .035 WALL |
| M2            | 655          | 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 |
| <b>XF</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
| <b>XH</b> |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>YF</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
| <b>YG</b> |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>YH</b> |            |            |            |            |            |            |
| <b>ZF</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
| <b>ZG</b> |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>ZH</b> |            |            |            |            |            |            |
| <b>AF</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
| <b>AG</b> |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>AH</b> |            |            |            |            |            |            |

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



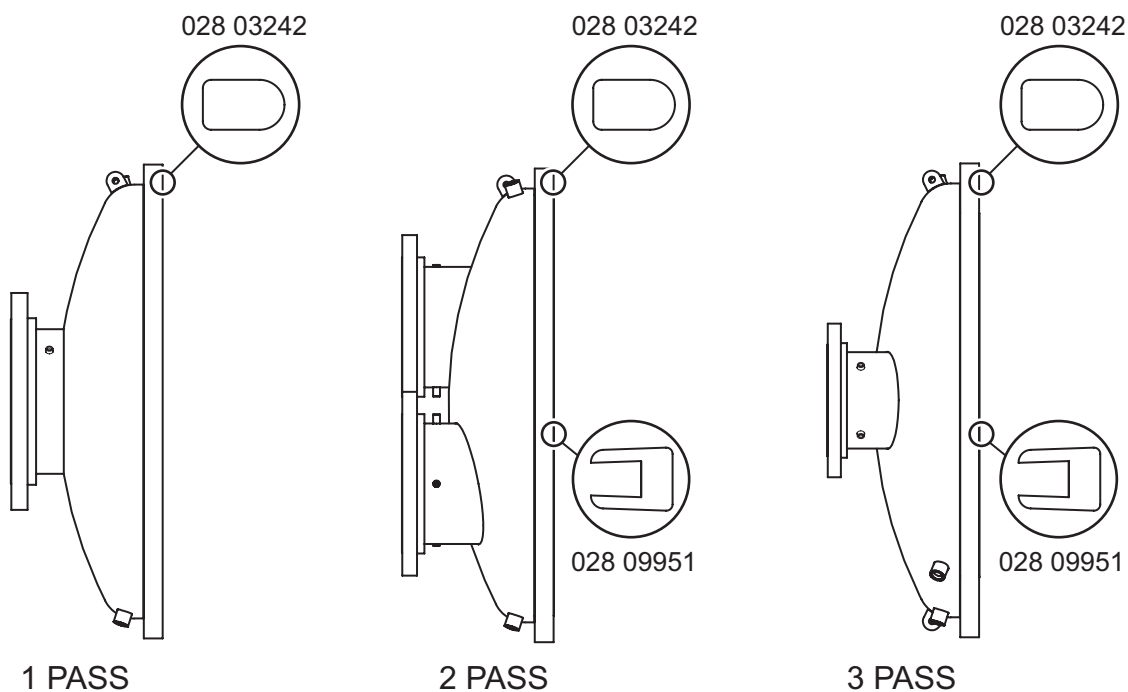
LD15198

**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 |
| <b>XF</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
| <b>XH</b> |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>YF</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
| <b>YG</b> |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>YH</b> |            |            |            |            |            |            |
| <b>ZF</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
| <b>ZG</b> |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>ZH</b> |            |            |            |            |            |            |
| <b>AF</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
| <b>AG</b> |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>AH</b> |            |            |            |            |            |            |

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

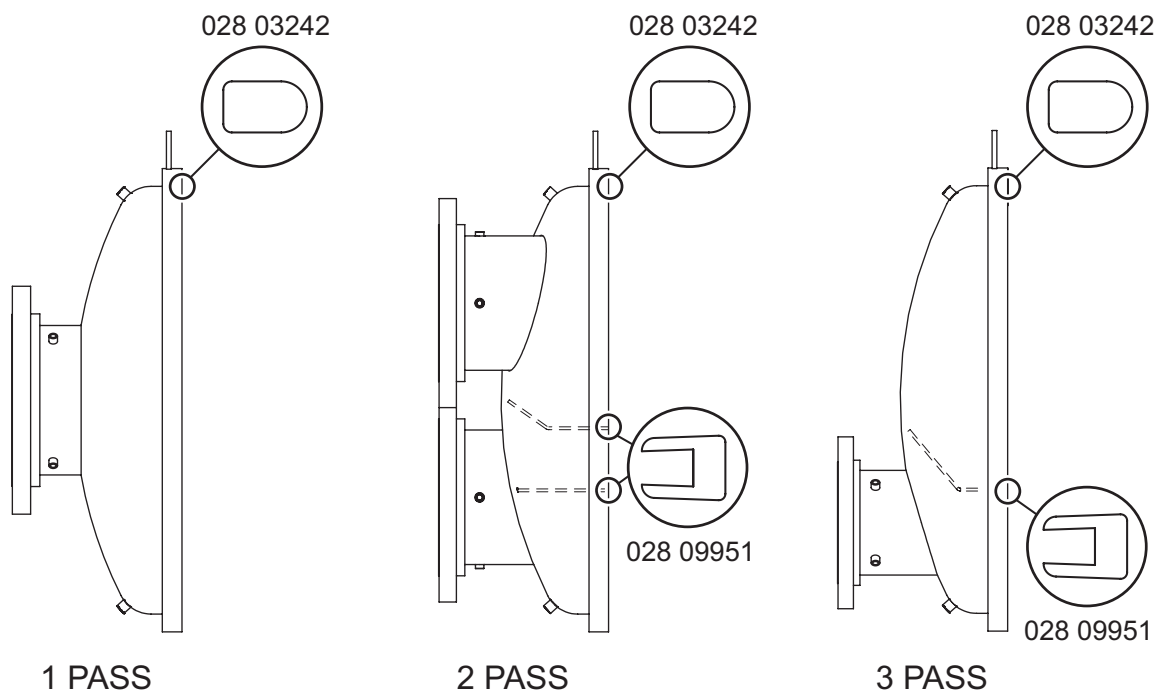
**FIGURE 63 - EVAPORATOR 300# COMPACT WATERBOX (MOD A)**

## 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<br>028 03242 | 4.5'<br>28' | 028 09951<br>028 03242 | 8.5'<br>28' |
| XB    |            |            |                        |             |                        |             |
| XC    |            |            |                        |             |                        |             |
| XD    |            |            |                        |             |                        |             |
| YA    | 028 03242  | 28'        | 028 09951<br>028 03242 | 5'<br>33'   | 028 09951<br>028 03242 | 10'<br>33'  |
| YB    |            |            |                        |             |                        |             |
| YC    |            |            |                        |             |                        |             |
| YD    |            |            |                        |             |                        |             |
| ZA    | 028 03242  | 28'        | 028 09951<br>028 03242 | 5.5'<br>35' | 028 09951<br>028 03242 | 11'<br>35'  |
| ZB    |            |            |                        |             |                        |             |
| ZC    |            |            |                        |             |                        |             |
| ZD    |            |            |                        |             |                        |             |
| AA    | 028 03242  | 28'        | 028 09951<br>028 03242 | 5.5'<br>35' | 028 09951<br>028 03242 | 11'<br>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'.



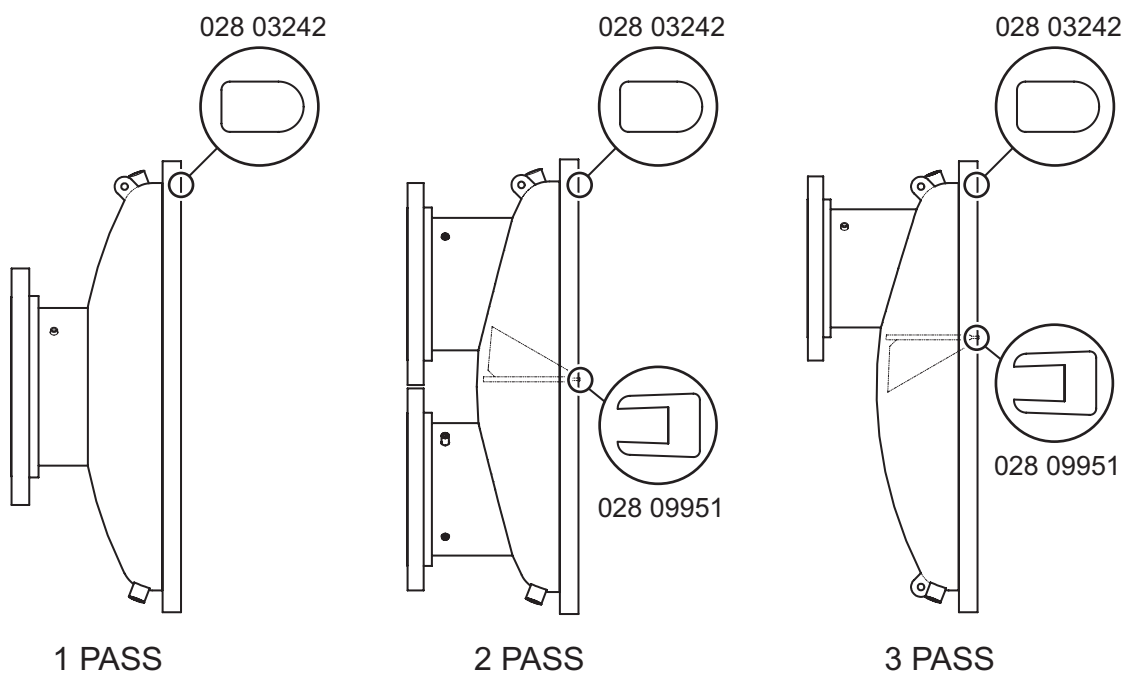
LD15192

**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<br>028 03242 | 5'<br>33'   | 028 09951<br>028 03242 | 10'<br>33' |
| XB    |            |            |                        |             |                        |            |
| XC    |            |            |                        |             |                        |            |
| XD    |            |            |                        |             |                        |            |
| YA    | 028 03242  | 33'        | 028 09951<br>028 03242 | 5'<br>33'   | 028 09951<br>028 03242 | 10'<br>33' |
| YB    |            |            |                        |             |                        |            |
| YC    |            |            |                        |             |                        |            |
| YD    |            |            |                        |             |                        |            |
| ZA    | 028 03242  | 33'        | 028 09951<br>028 03242 | 5.5'<br>35' | 028 09951<br>028 03242 | 11'<br>35' |
| ZB    |            |            |                        |             |                        |            |
| ZC    |            |            |                        |             |                        |            |
| ZD    |            |            |                        |             |                        |            |
| AA    | 028 03242  | 33'        | 028 09951<br>028 03242 | 5.5'<br>35' | 028 09951<br>028 03242 | 11'<br>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)**

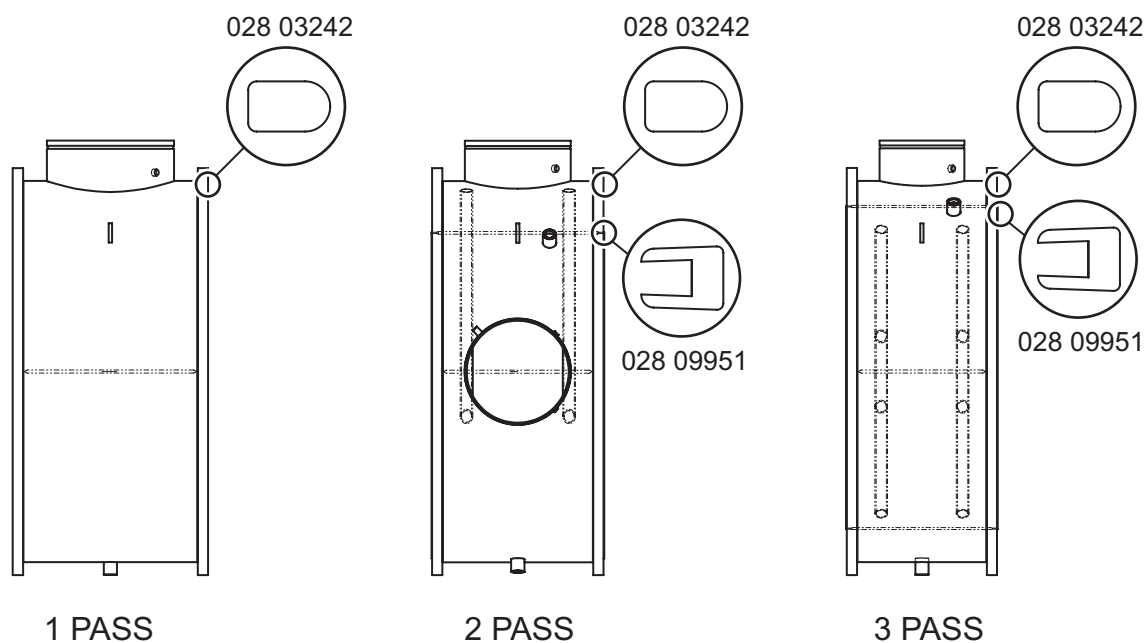
LD15382

## 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   |
| <b>XF</b> | 028 03242  | 76'        | 028 09951              | 12'        | 028 09951              | 23.5'        |
| <b>XH</b> |            |            | 028 03242              | 57'        | 028 03242              | 76'          |
| <b>YF</b> | 028 03242  | 76'        | 028 09951<br>028 03242 | 12'<br>57' | 028 09951<br>028 03242 | 23.5'<br>76' |
| <b>YG</b> |            |            |                        |            |                        |              |
| <b>YH</b> |            |            |                        |            |                        |              |
| <b>ZF</b> | 028 03242  | 76'        | 028 09951<br>028 03242 | 12'<br>57' | 028 09951<br>028 03242 | 227'<br>86'  |
| <b>ZG</b> |            |            |                        |            |                        |              |
| <b>ZH</b> |            |            |                        |            |                        |              |
| <b>AF</b> | 028 03242  | 76'        | 028 09951<br>028 03242 | 12'<br>57' | 028 09951<br>028 03242 | 227'<br>86'  |
| <b>AG</b> |            |            |                        |            |                        |              |
| <b>AH</b> |            |            |                        |            |                        |              |

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



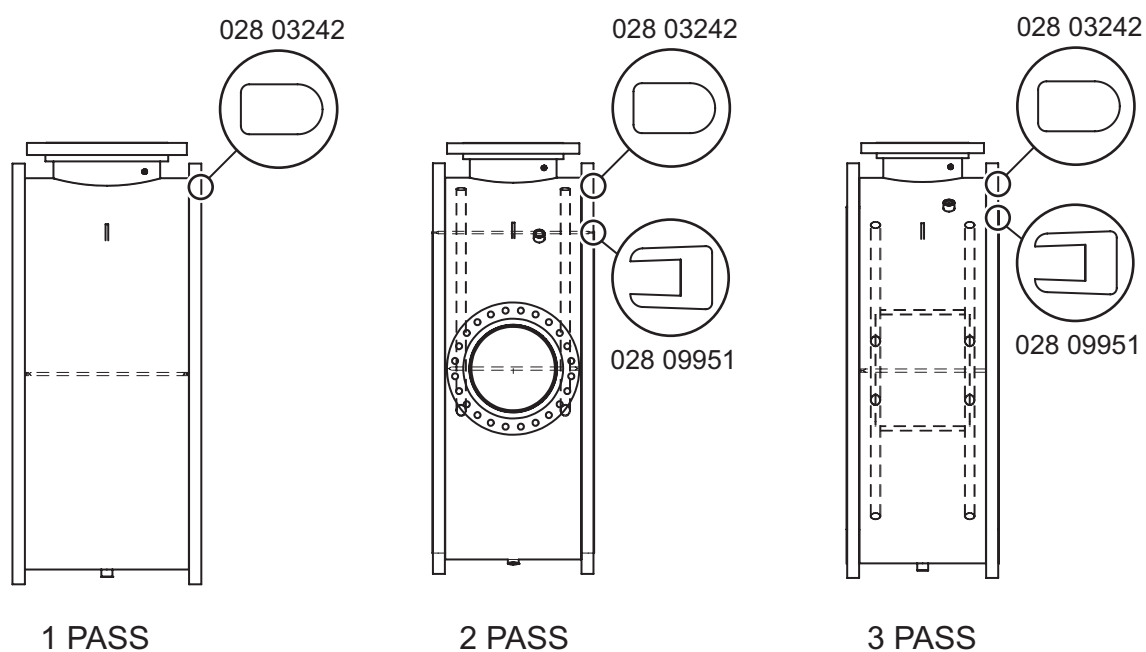
LD15383

**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

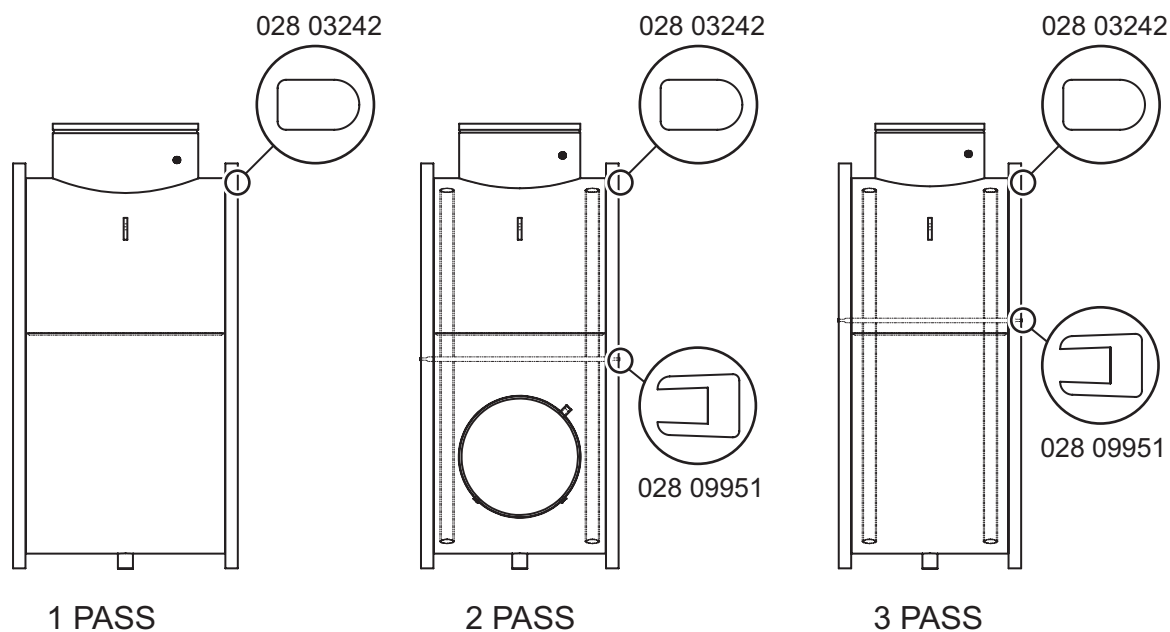
**FIGURE 67 - EVAPORATOR 300# MARINE WATERBOX (MOD A)**

## 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<br>028 03242 | 10'<br>49.5' | 028 09951<br>028 03242 | 20'<br>66' |
| XB    |            |            |                        |              |                        |            |
| XC    |            |            |                        |              |                        |            |
| XD    |            |            |                        |              |                        |            |
| YA    | 028 03242  | 66'        | 028 09951<br>028 03242 | 10'<br>49.5' | 028 09951<br>028 03242 | 20'<br>66' |
| YB    |            |            |                        |              |                        |            |
| YC    |            |            |                        |              |                        |            |
| YD    |            |            |                        |              |                        |            |
| ZA    | 028 03242  | 66'        | 028 09951<br>028 03242 | 12'<br>57'   | 028 09951<br>028 03242 | 24'<br>76' |
| ZB    |            |            |                        |              |                        |            |
| ZC    |            |            |                        |              |                        |            |
| ZD    |            |            |                        |              |                        |            |
| AA    | 028 03242  | 66'        | 028 09951<br>028 03242 | 12'<br>57'   | 028 09951<br>028 03242 | 24'<br>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'.



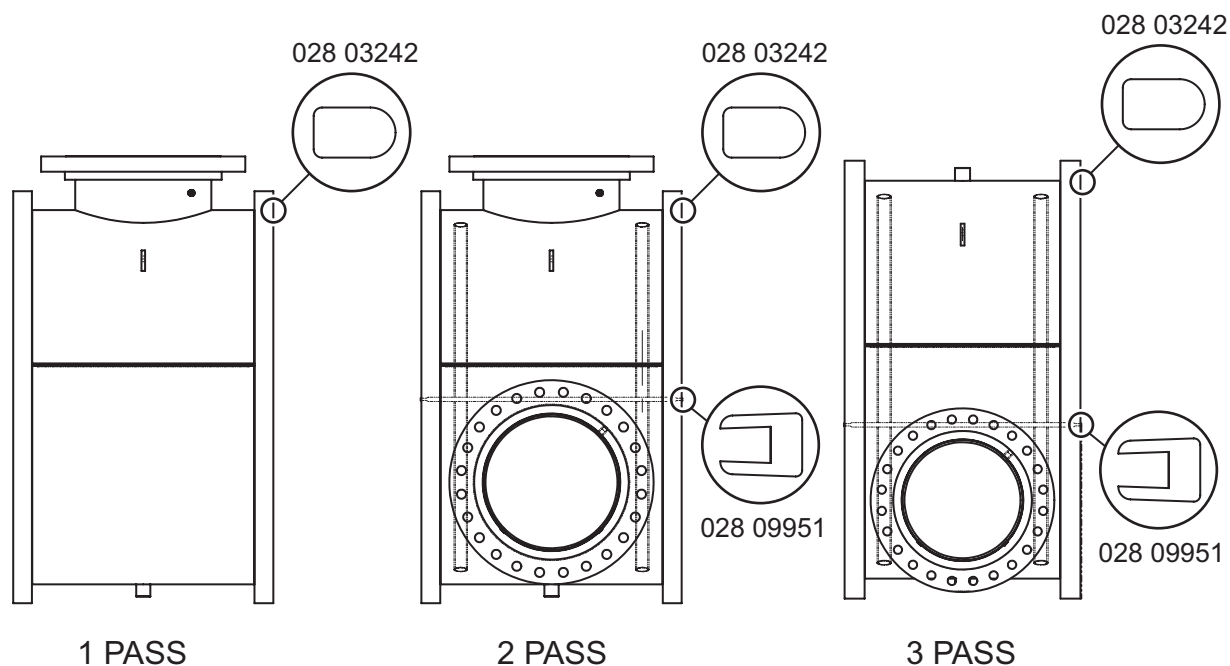
LD15386

**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<br>028 03242 | 10'<br>49.5' | 028 09951<br>028 03242 | 19.5'<br>66' |
| XB    |            |            |                        |              |                        |              |
| XC    |            |            |                        |              |                        |              |
| XD    |            |            |                        |              |                        |              |
| YA    | 028 03242  | 66'        | 028 09951<br>028 03242 | 10'<br>49.5' | 028 09951<br>028 03242 | 19.5'<br>66' |
| YB    |            |            |                        |              |                        |              |
| YC    |            |            |                        |              |                        |              |
| YD    |            |            |                        |              |                        |              |
| ZA    | 028 03242  | 66'        | 028 09951<br>028 03242 | 11'<br>52.5' | 028 09951<br>028 03242 | 12'<br>38'   |
| ZB    |            |            |                        |              |                        |              |
| ZC    |            |            |                        |              |                        |              |
| ZD    |            |            |                        |              |                        |              |
| AA    | 028 03242  | 66'        | 028 09951<br>028 03242 | 11'<br>52.5' | 028 09951<br>028 03242 | 12'<br>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

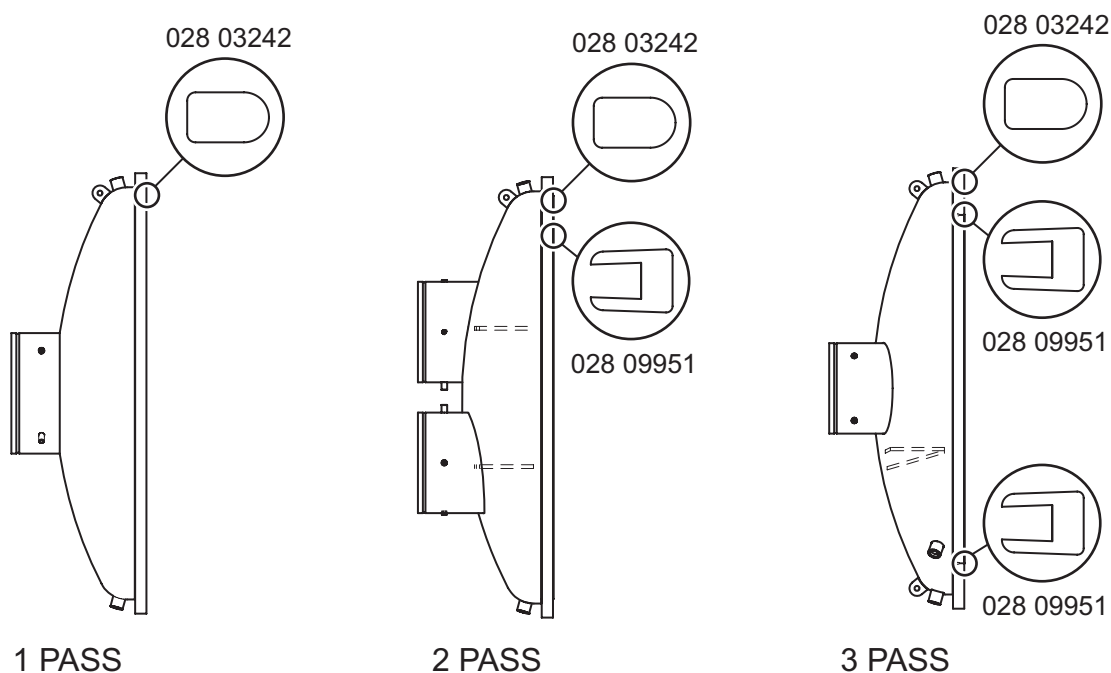
**FIGURE 69 - CONDENSER 300# MARINE WATERBOX (MOD A)**

## 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>B</b>   | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
|            |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>C</b>   | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
|            |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>D/E</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
|            |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>F/G</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 14'        |
|            |            |            | 028 03242  | 38'        | 028 03242  | 43'        |
| <b>H/K</b> | 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'.



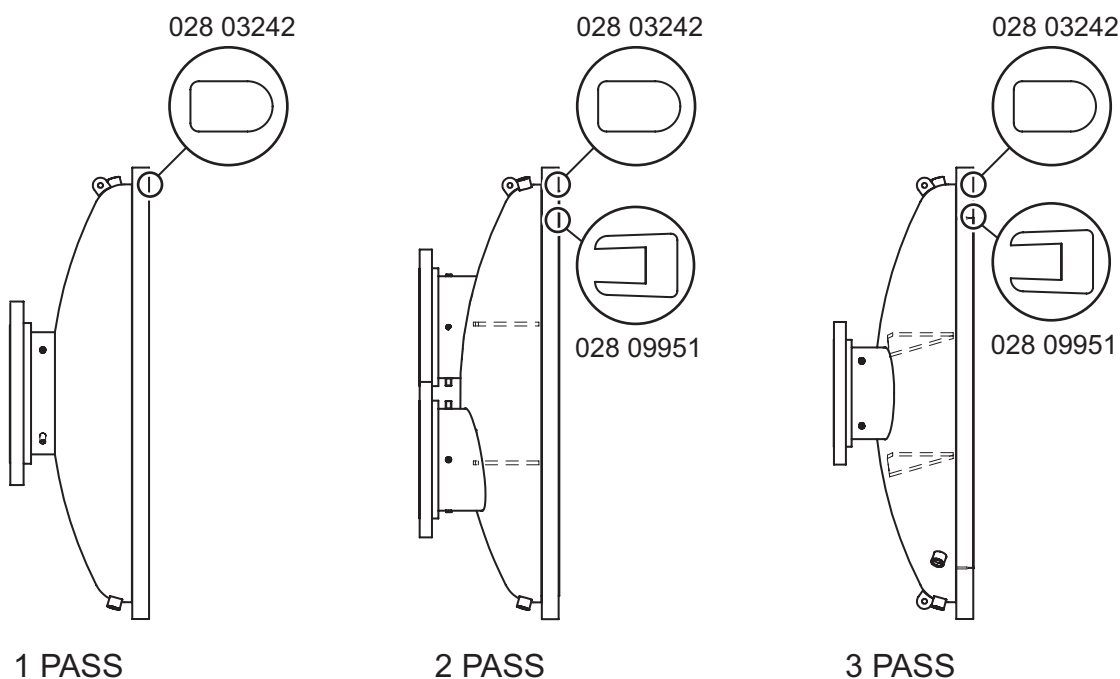
LD15388

**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>B</b>   | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
|            |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>C</b>   | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
|            |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>D/E</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
|            |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>F/G</b> | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 14'        |
|            |            |            | 028 03242  | 38'        | 028 03242  | 43'        |
| <b>H/K</b> | 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

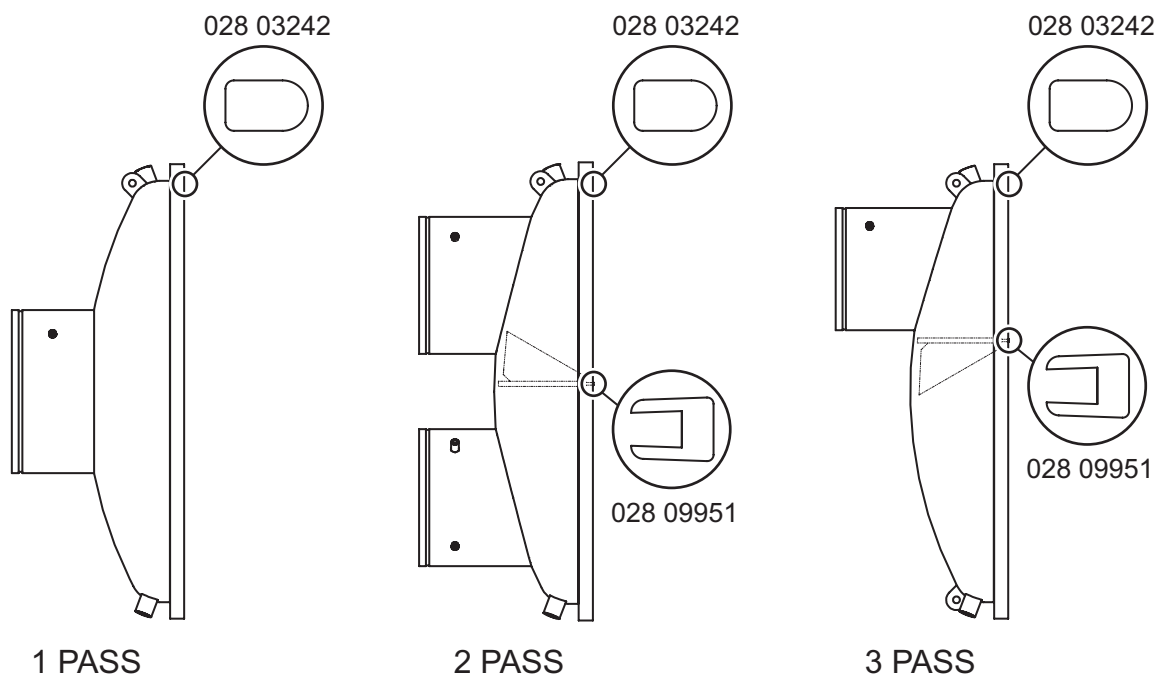
**FIGURE 71 - EVAPORATOR 300# COMPACT WATERBOX (MOD B)**

## 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>B</b>   | 028 03242  | 28'        | 028 09951  | 4.5'       | 028 09951  | 9.25'      |
|            |            |            | 028 03242  | 28'        | 028 03242  | 30.25'     |
| <b>C</b>   | 028 03242  | 28'        | 028 09951  | 5'         | 028 09951  | 9.25'      |
|            |            |            | 028 03242  | 33'        | 028 03242  | 30.25'     |
| <b>D/E</b> | 028 03242  | 28'        | 028 09951  | 5'         | 028 09951  | 10'        |
|            |            |            | 028 03242  | 33'        | 028 03242  | 33'        |
| <b>F/G</b> | 028 03242  | 28'        | 028 09951  | 5.5'       | 028 09951  | 11'        |
|            |            |            | 028 03242  | 35'        | 028 03242  | 35'        |
| <b>H/K</b> | 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'.



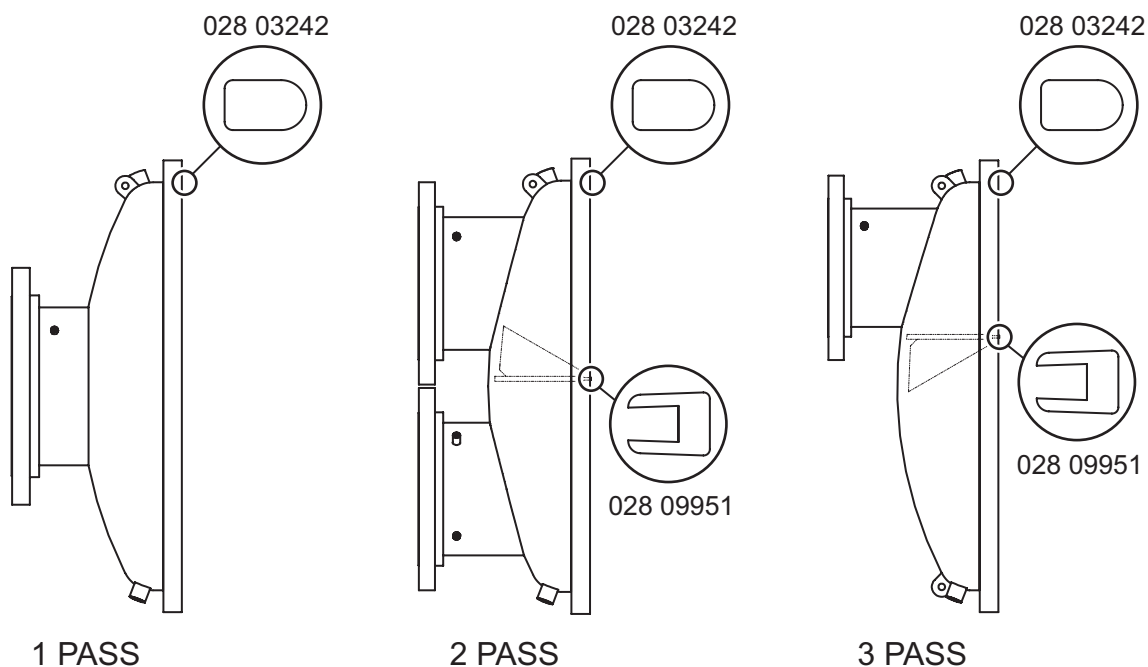
LD15392

**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>B</b>   | 028 03242  | 33'        | 028 09951  | 4.5'       | 028 09951  | 9.25'      |
|            |            |            | 028 03242  | 28'        | 028 03242  | 30.25'     |
| <b>C</b>   | 028 03242  | 33'        | 028 09951  | 5'         | 028 09951  | 9.25'      |
|            |            |            | 028 03242  | 33'        | 028 03242  | 30.25'     |
| <b>D/E</b> | 028 03242  | 33'        | 028 09951  | 5'         | 028 09951  | 10'        |
|            |            |            | 028 03242  | 33'        | 028 03242  | 33'        |
| <b>F/G</b> | 028 03242  | 33'        | 028 09951  | 5.5'       | 028 09951  | 11'        |
|            |            |            | 028 03242  | 35'        | 028 03242  | 35'        |
| <b>H/K</b> | 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)**

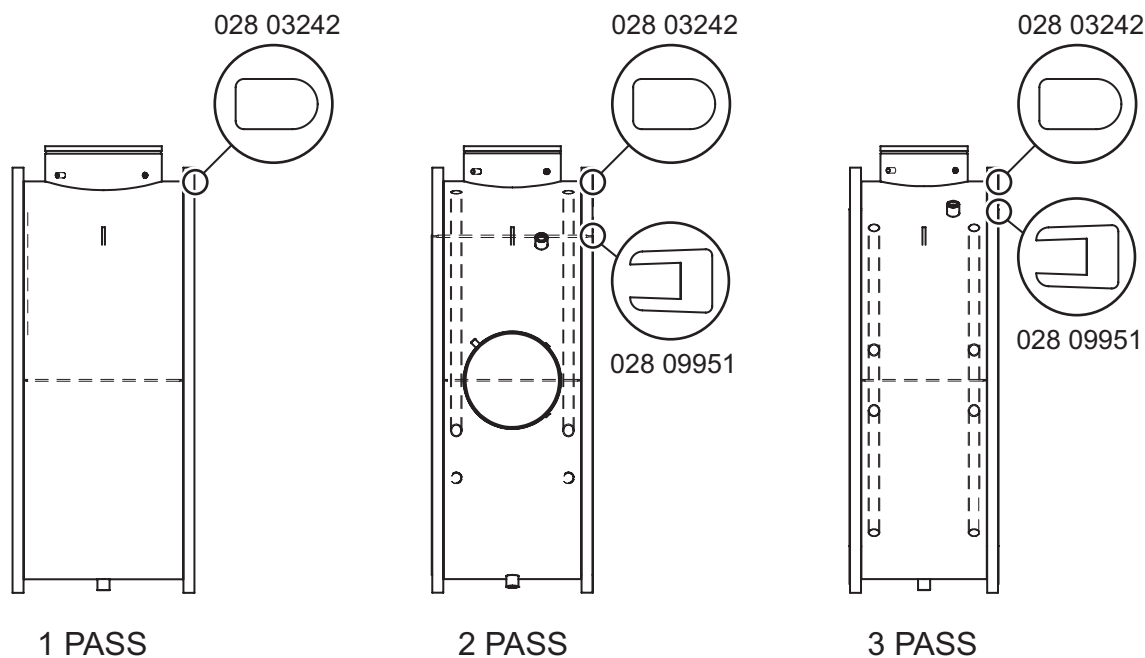
LD15393

## 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>B</b>   | 028 03242  | 76'        | 028 09951  | 12'        | 028 09951  | 23'        |
|            |            |            | 028 03242  | 57'        | 028 03242  | 76'        |
| <b>C</b>   | 028 03242  | 76'        | 028 09951  | 12'        | 028 09951  | 23'        |
|            |            |            | 028 03242  | 57'        | 028 03242  | 76'        |
| <b>D/E</b> | 028 03242  | 76'        | 028 09951  | 12'        | 028 09951  | 23.5'      |
|            |            |            | 028 03242  | 57'        | 028 03242  | 76'        |
| <b>F/G</b> | 028 03242  | 76'        | 028 09951  | 12'        | 028 09951  | 27'        |
|            |            |            | 028 03242  | 57'        | 028 03242  | 86'        |
| <b>H/K</b> | 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'.



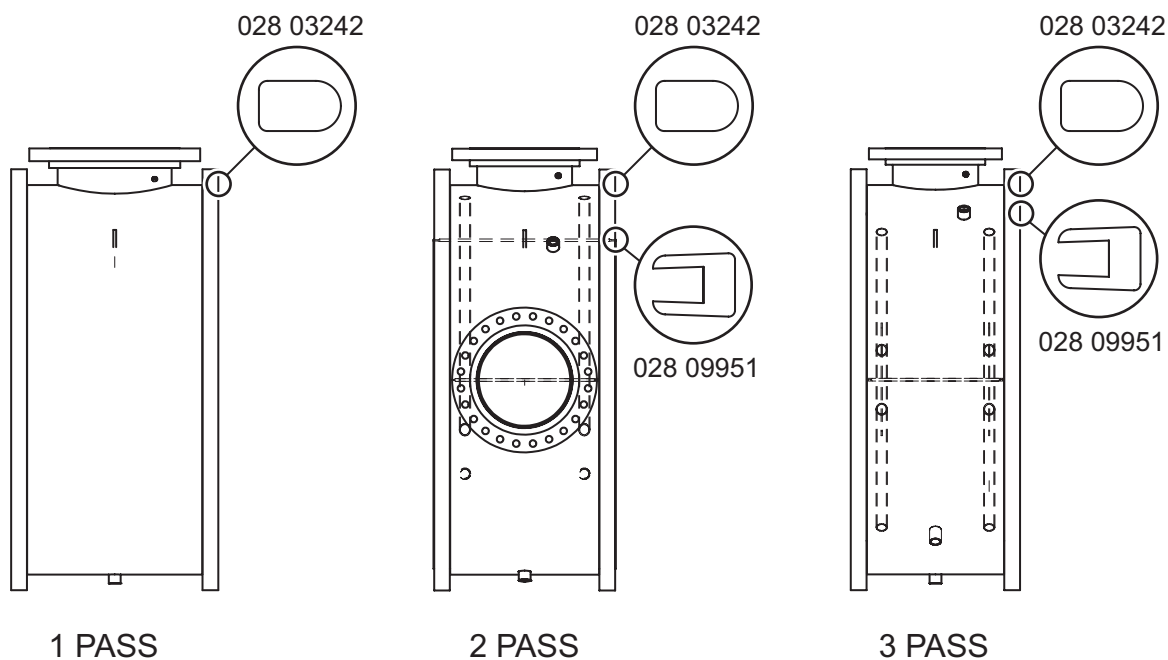
LD15190

**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>B</b>   | 028 03242  | 76'        | 028 09951  | 23.5'      | 028 09951  | 23.5'      |
|            |            |            | 028 03242  | 57'        | 028 03242  | 76'        |
| <b>C</b>   | 028 03242  | 76'        | 028 09951  | 23.5'      | 028 09951  | 23.5'      |
|            |            |            | 028 03242  | 57'        | 028 03242  | 76'        |
| <b>D/E</b> | 028 03242  | 76'        | 028 09951  | 23.5'      | 028 09951  | 23.5'      |
|            |            |            | 028 03242  | 57'        | 028 03242  | 76'        |
| <b>F/G</b> | 028 03242  | 76'        | 028 09951  | 23.5'      | 028 09951  | 26.5'      |
|            |            |            | 028 03242  | 57'        | 028 03242  | 86'        |
| <b>H/K</b> | 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

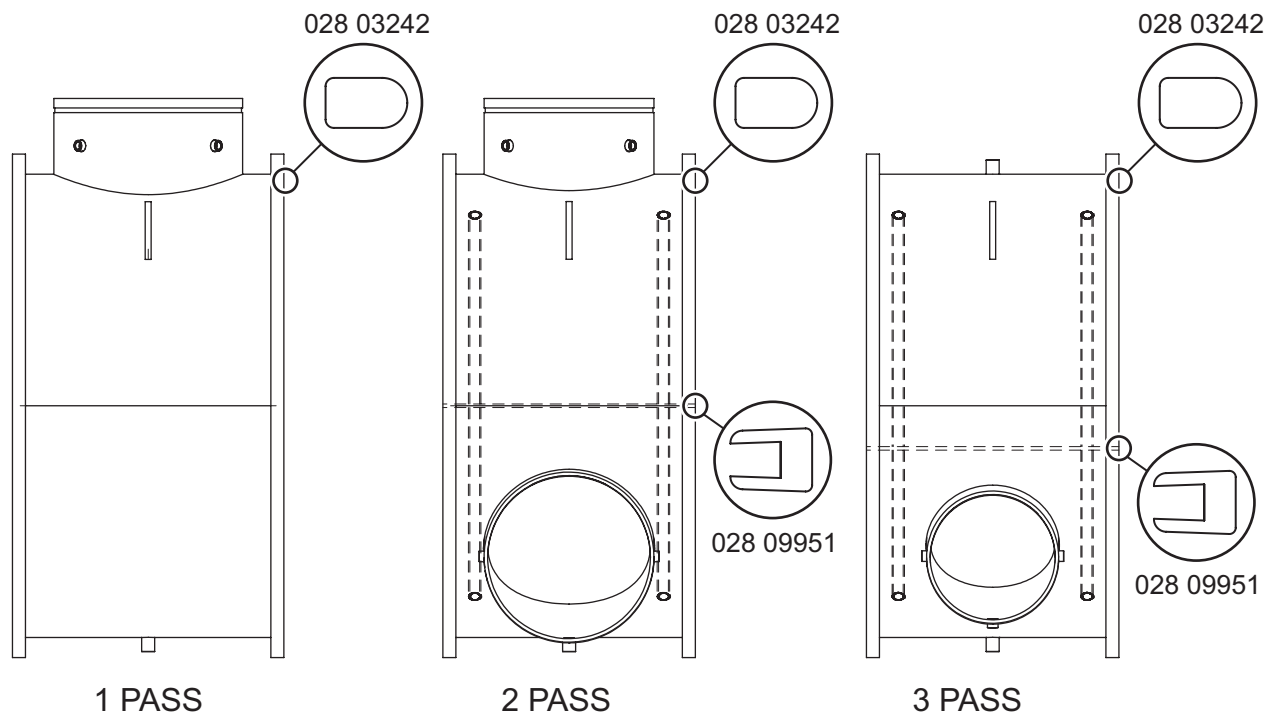
**FIGURE 75 - EVAPORATOR 300# MARINE WATERBOX (MOD B)**

## 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>B</b>   | 028 03242  | 56'        | 028 09951  | 9'         | 028 09951  | 18.25'     |
|            |            |            | 028 03242  | 42'        | 028 03242  | 60'        |
| <b>C</b>   | 028 03242  | 56'        | 028 09951  | 9.5'       | 028 09951  | 18.25'     |
|            |            |            | 028 03242  | 45'        | 028 03242  | 60'        |
| <b>D/E</b> | 028 03242  | 56'        | 028 09951  | 9.5'       | 028 09951  | 20'        |
|            |            |            | 028 03242  | 45'        | 028 03242  | 66'        |
| <b>F/G</b> | 028 03242  | 56'        | 028 09951  | 10'        | 028 09951  | 22'        |
|            |            |            | 028 03242  | 49'        | 028 03242  | 70'        |
| <b>H/K</b> | 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'.



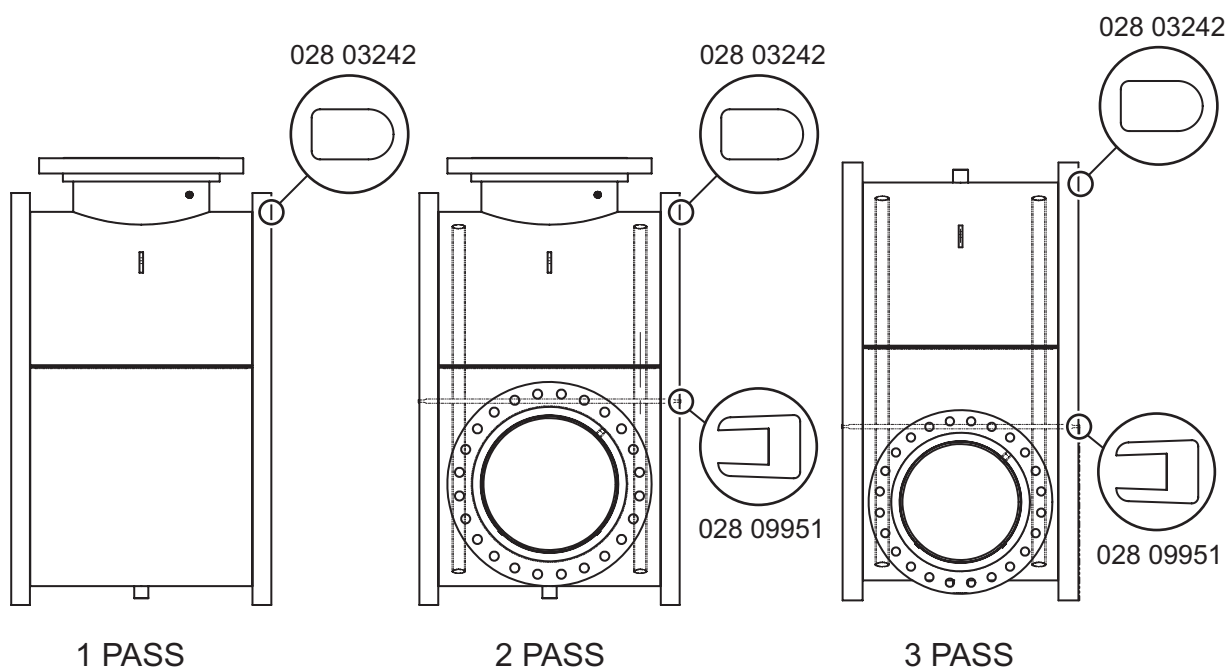
LD15194

**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>B</b>   | 028 03242  | 56'        | 028 09951  | 9'         | 028 09951  | 18.25'     |
|            |            |            | 028 03242  | 42'        | 028 03242  | 60'        |
| <b>C</b>   | 028 03242  | 56'        | 028 09951  | 9.5'       | 028 09951  | 18.25'     |
|            |            |            | 028 03242  | 45'        | 028 03242  | 60'        |
| <b>D/E</b> | 028 03242  | 56'        | 028 09951  | 9.5'       | 028 09951  | 19.5'      |
|            |            |            | 028 03242  | 45'        | 028 03242  | 66'        |
| <b>F/G</b> | 028 03242  | 56'        | 028 09951  | 11'        | 028 09951  | 22'        |
|            |            |            | 028 03242  | 52.5'      | 028 03242  | 70'        |
| <b>H/K</b> | 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'.



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

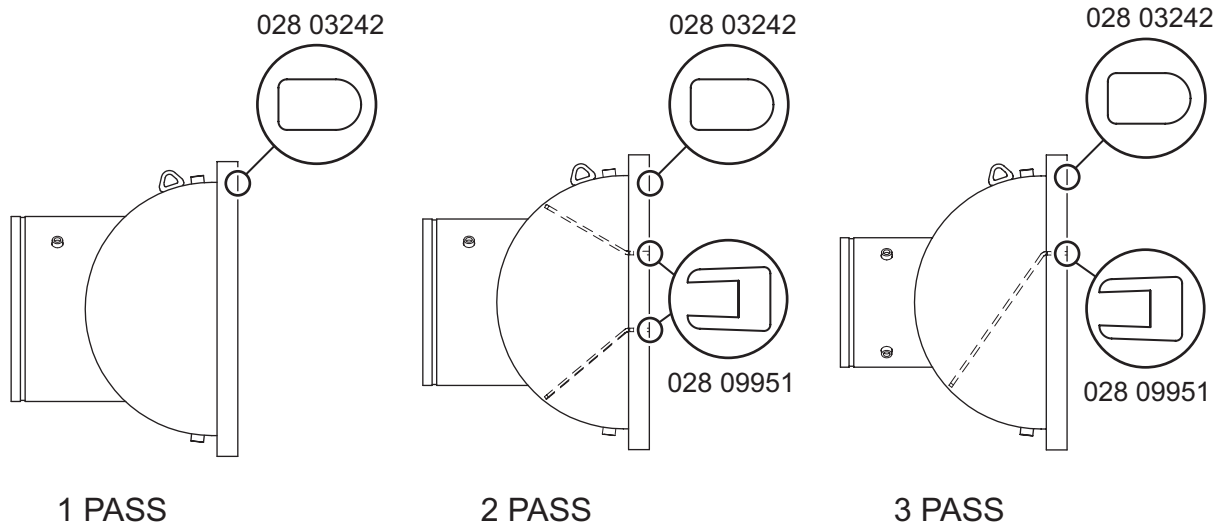
LD15387

## 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'.



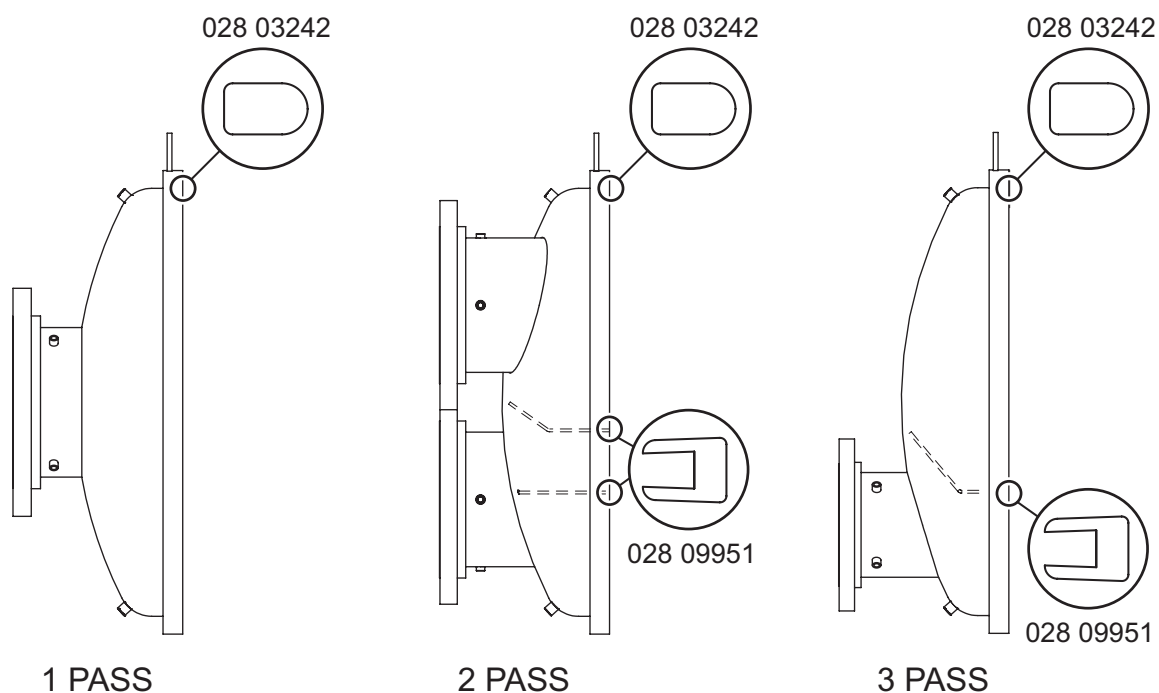
LD15188

**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>B, M</b> | 028 03242  | 30'        | 028 09951  | 6'         | 028 09951  | 9'         |
|             |            |            | 028 03242  | 30'        | 028 03242  | 30'        |
| <b>N</b>    | 028 03242  | 33'        | 028 09951  | 6'         | 028 09951  | 10'        |
|             |            |            | 028 03242  | 33'        | 028 03242  | 33'        |
| <b>E</b>    | 028 03242  | 38'        | 028 09951  | 6'         | 028 09951  | 12'        |
|             |            |            | 028 03242  | 38'        | 028 03242  | 38'        |
| <b>F, G</b> | 028 03242  | 43'        | 028 09951  | 7'         | 028 09951  | 14'        |
|             |            |            | 028 03242  | 43'        | 028 03242  | 43'        |
| <b>H, K</b> | 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

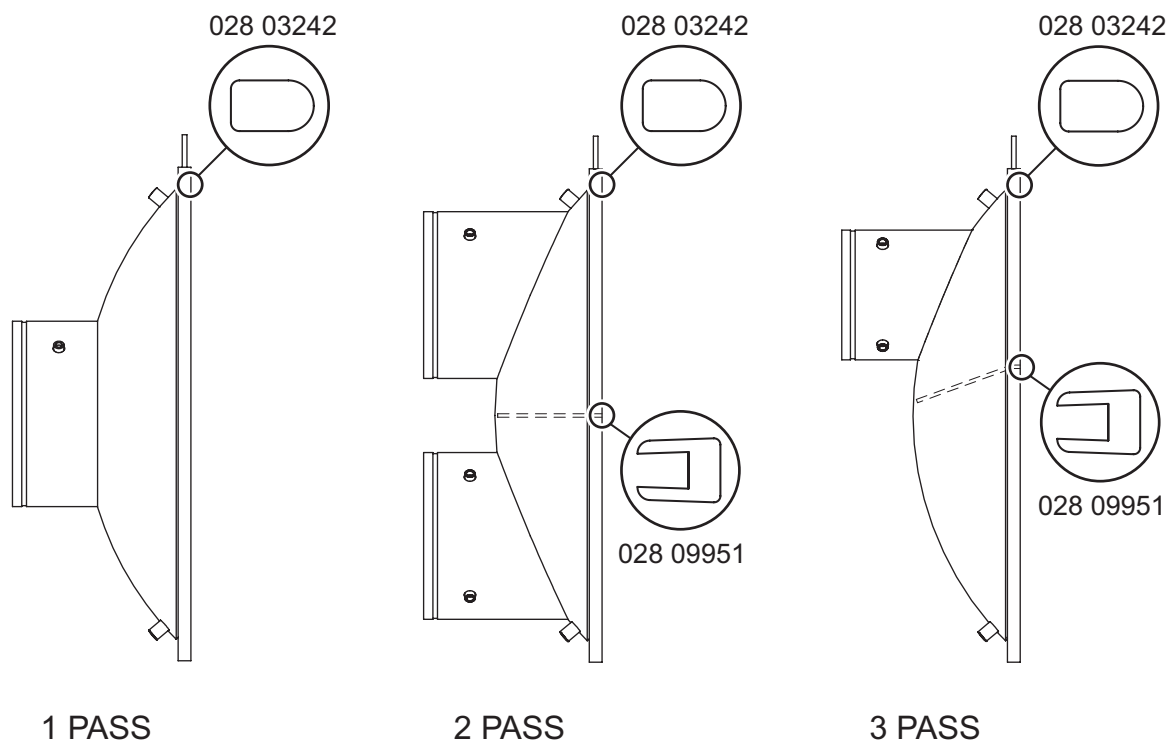
**FIGURE 79 - EVAPORATOR 300# COMPACT WATERBOX (MOD C)**

## 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 |
| <b>L, M</b> | 028 03242  | 27'        | 028 09951  | 4'         | 028 09951  | 8'         |
|             |            |            | 028 03242  | 27'        | 028 03242  | 27'        |
| <b>B</b>    | 028 03242  | 28'        | 028 09951  | 5'         | 028 09951  | 9'         |
|             |            |            | 028 03242  | 28'        | 028 03242  | 28'        |
| <b>C</b>    | 028 03242  | 30'        | 028 09951  | 5'         | 028 09951  | 10'        |
|             |            |            | 028 03242  | 30'        | 028 03242  | 30'        |
| <b>D, E</b> | 028 03242  | 33'        | 028 09951  | 5'         | 028 09951  | 10'        |
|             |            |            | 028 03242  | 33'        | 028 03242  | 33'        |
| <b>F</b>    | 028 03242  | 35'        | 028 09951  | 6'         | 028 09951  | 11'        |
|             |            |            | 028 03242  | 35'        | 028 03242  | 35'        |
| <b>K</b>    | 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'.



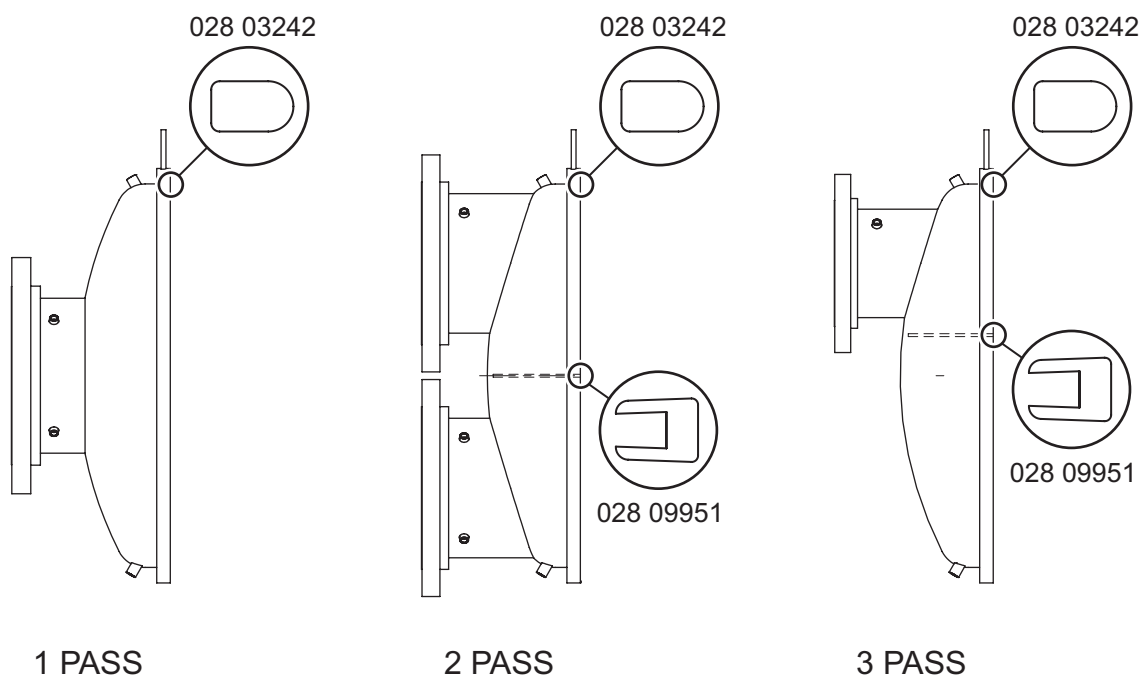
LD15192

**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 |
| <b>L, M</b> | 028 03242  | 26'        | 028 09951  | 4'         | 028 09951  | 8'         |
|             |            |            | 028 03242  | 26'        | 028 03242  | 26'        |
| <b>B</b>    | -          | -          | -          | -          | -          | -          |
| <b>C</b>    | 028 03242  | 30'        | 028 09951  | 6'         | 028 09951  | 10'        |
|             |            |            | 028 03242  | 30'        | 028 03242  | 30'        |
| <b>D, E</b> | 028 03242  | 33'        | 028 09951  | 5'         | 028 09951  | 10'        |
|             |            |            | 028 03242  | 33'        | 028 03242  | 33'        |
| <b>F</b>    | 028 03242  | 35'        | 028 09951  | 6'         | 028 09951  | 11'        |
|             |            |            | 028 03242  | 35'        | 028 03242  | 35'        |
| <b>K</b>    | 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)**

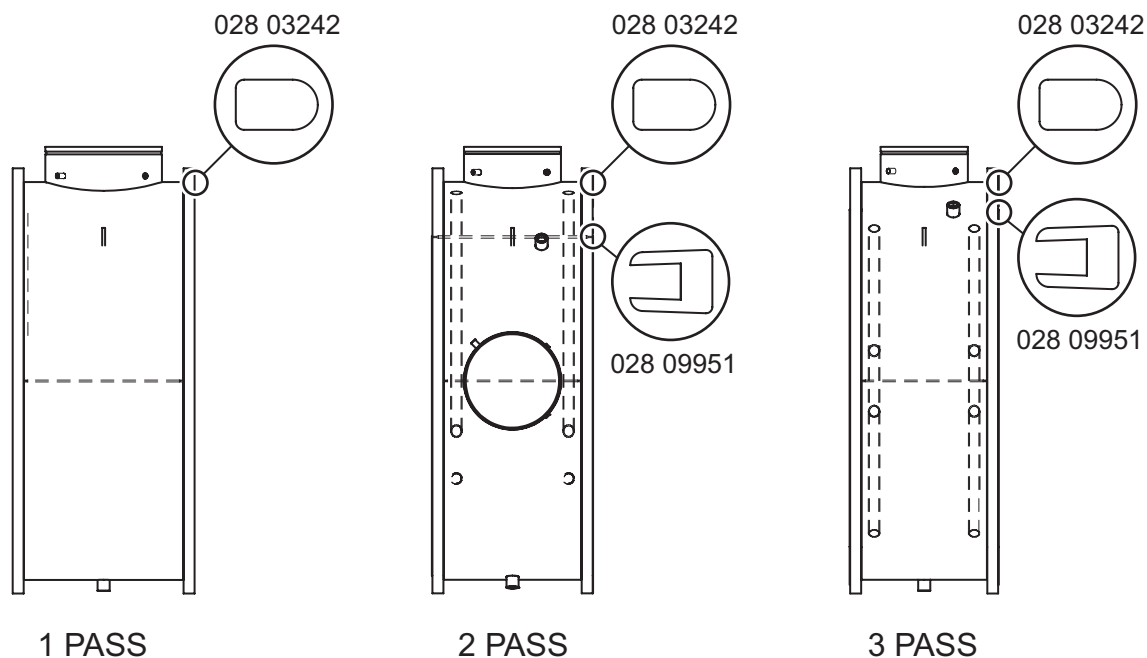
LD15188

## 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'.



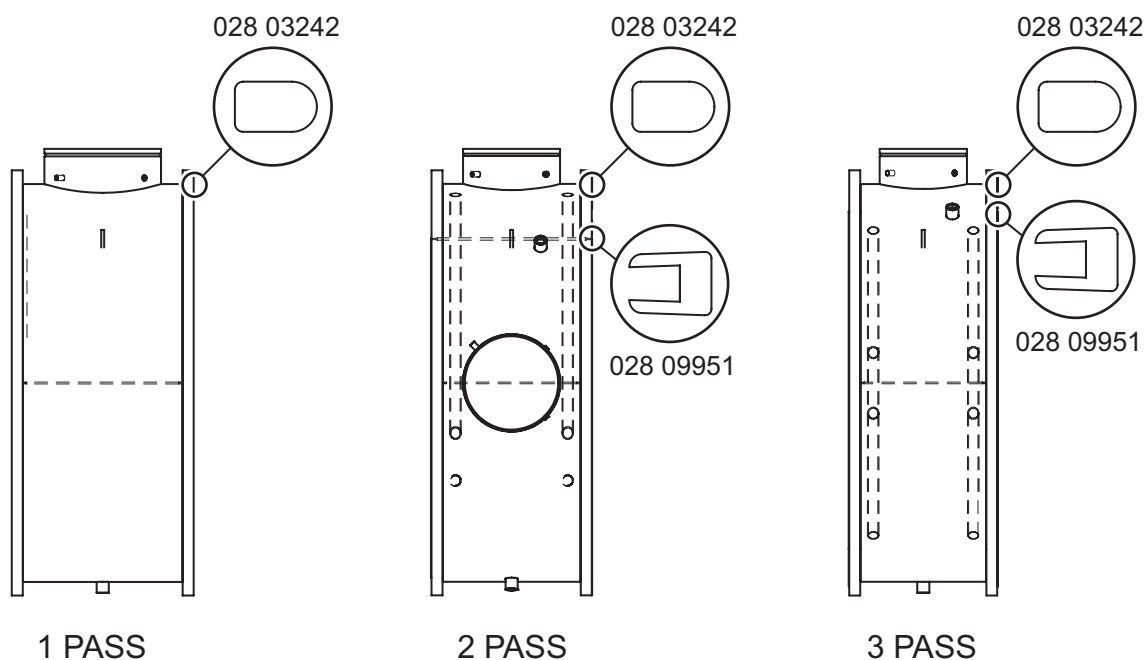
LD15190

**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>B, M</b> | 028 03242  | 60'        | 028 09951  | 11'        | 028 09951  | 18'        |
|             |            |            | 028 03242  | 45'        | 028 03242  | 60'        |
| <b>N</b>    | 028 03242  | 65'        | 028 09951  | 11'        | 028 09951  | 20'        |
|             |            |            | 028 03242  | 49'        | 028 03242  | 65'        |
| <b>E</b>    | 028 03242  | 76'        | 028 09951  | 24'        | 028 09951  | 24'        |
|             |            |            | 028 03242  | 57'        | 028 03242  | 76'        |
| <b>F, G</b> | 028 03242  | 86'        | 028 09951  | 14'        | 028 09951  | 27'        |
|             |            |            | 028 03242  | 65'        | 028 03242  | 86'        |
| <b>H, K</b> | 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)**

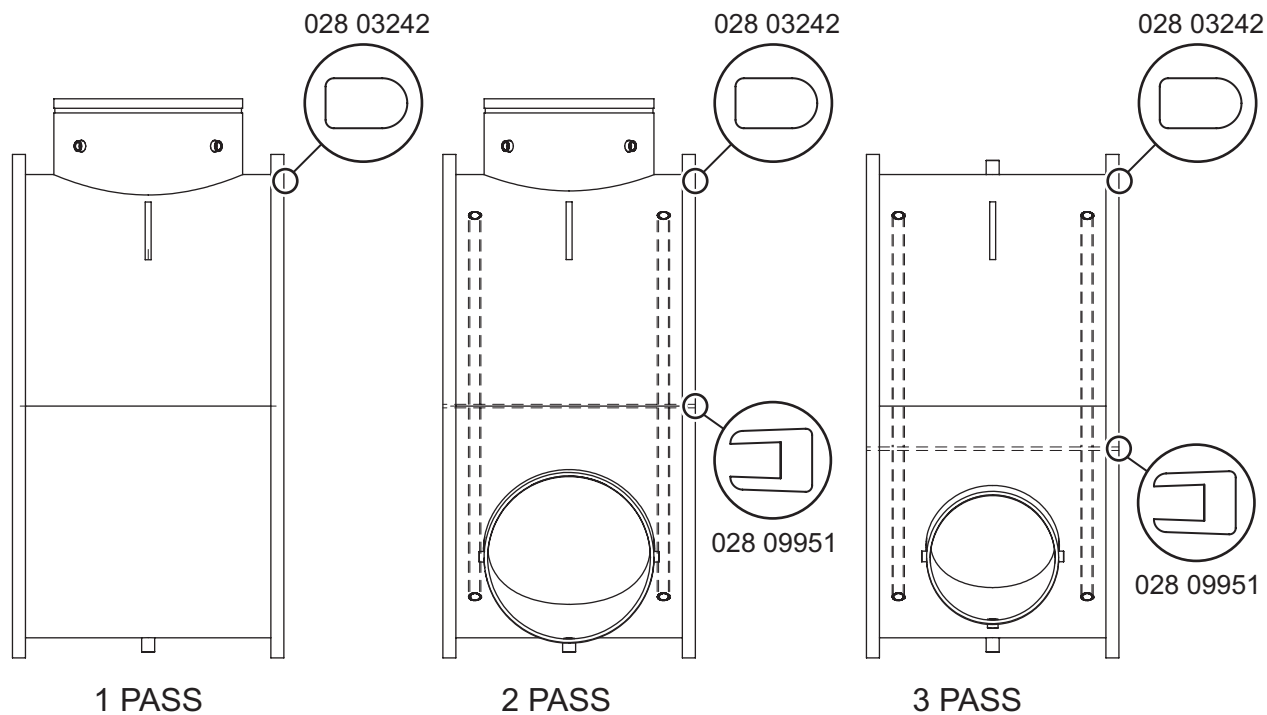
LD15191

## 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 |
| <b>L, M</b> | 028 03242  | 53'        | 028 09951  | 8'         | 028 09951  | 15'        |
|             |            |            | 028 03242  | 40'        | 028 03242  | 53'        |
| <b>B</b>    | 028 03242  | 56'        | 028 09951  | 9'         | 028 09951  | 17'        |
|             |            |            | 028 03242  | 42'        | 028 03242  | 56'        |
| <b>C</b>    | 028 03242  | 60'        | 028 09951  | 10'        | 028 09951  | 19'        |
|             |            |            | 028 03242  | 45'        | 028 03242  | 60'        |
| <b>D, E</b> | 028 03242  | 66'        | 028 09951  | 10'        | 028 09951  | 20'        |
|             |            |            | 028 03242  | 50'        | 028 03242  | 66'        |
| <b>F</b>    | 028 03242  | 70'        | 028 09951  | 11'        | 028 09951  | 22'        |
|             |            |            | 028 03242  | 53'        | 028 03242  | 70'        |
| <b>K</b>    | 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'.



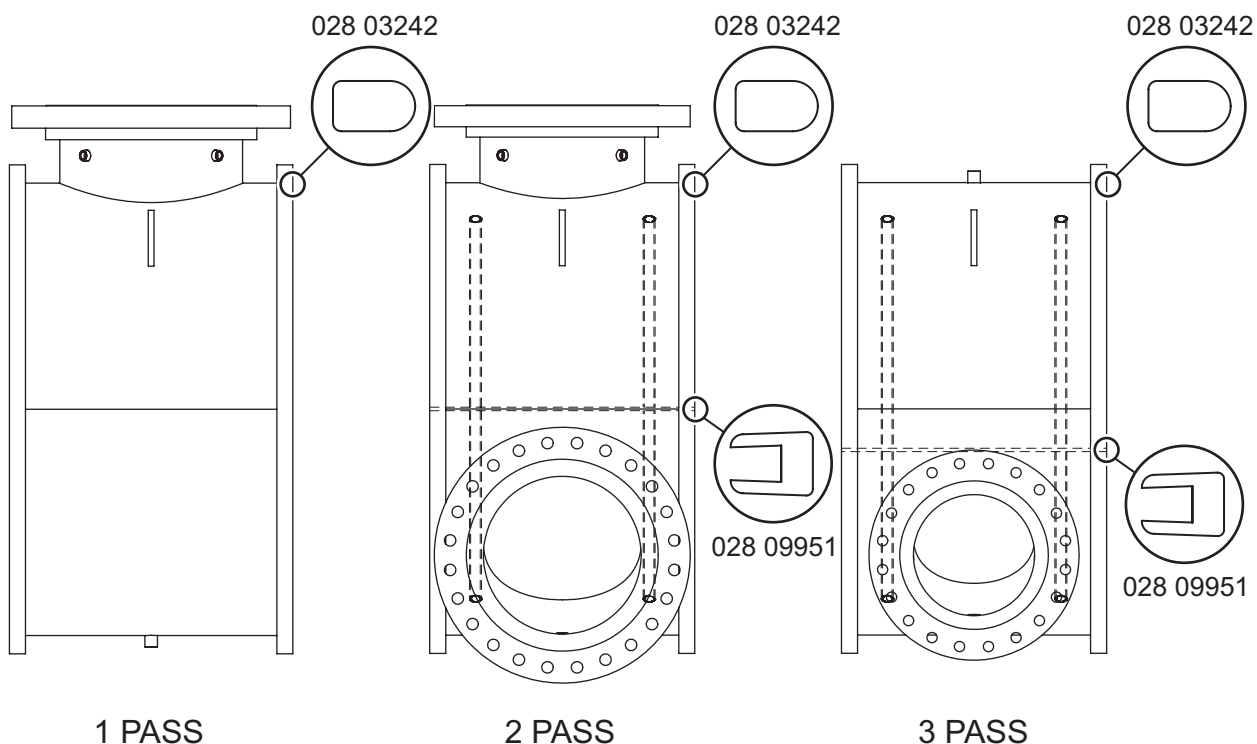
LD15194

**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<br>(INCLUDES QUANTITY OF<br>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<br>(INCLUDES QTY.<br>4 SPRING BOLTS) | QUANTITY<br>(NUMBER OF MOUNTS<br>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                                             |

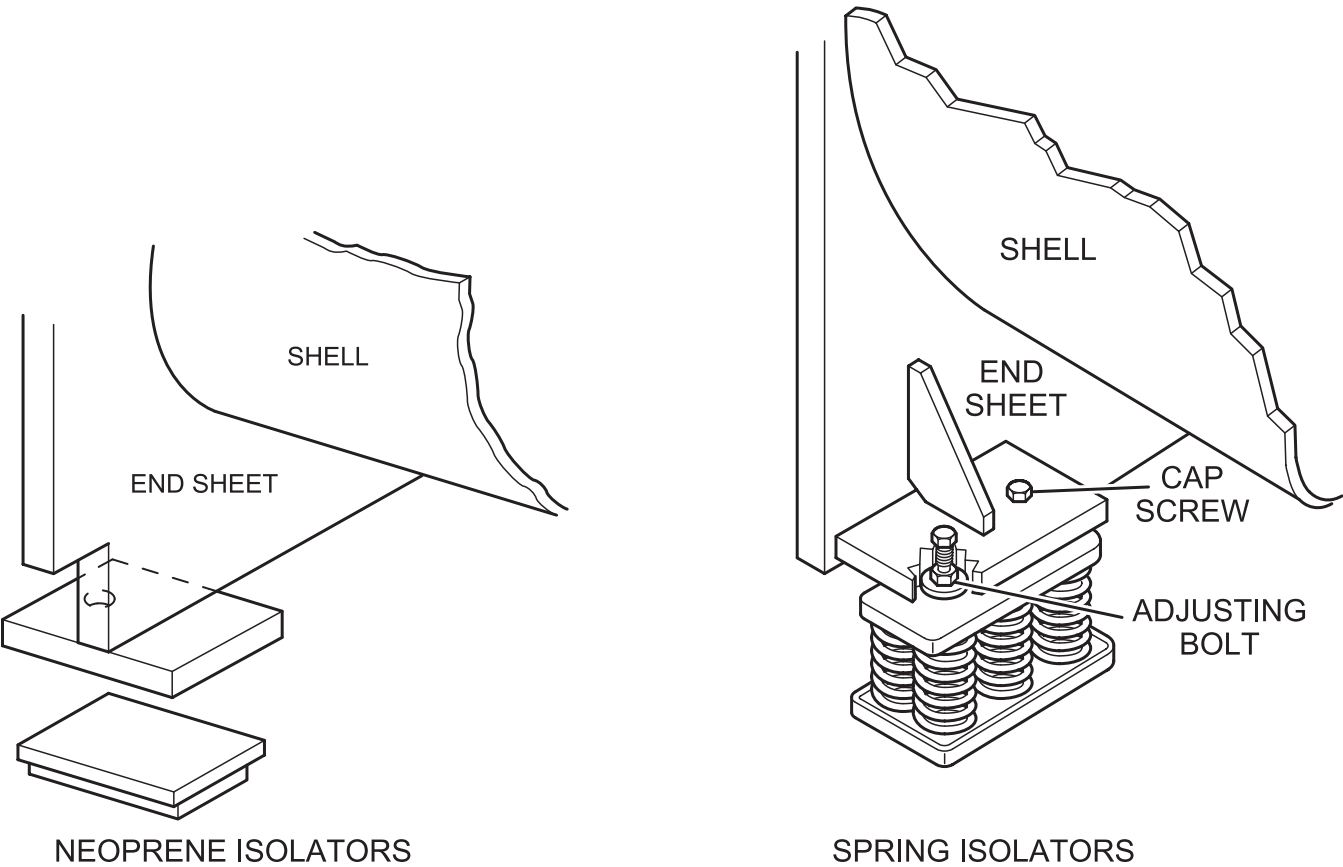


FIGURE 86 - NEOPRENE ISOLATORS / SPRING ISOLATORS

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 |

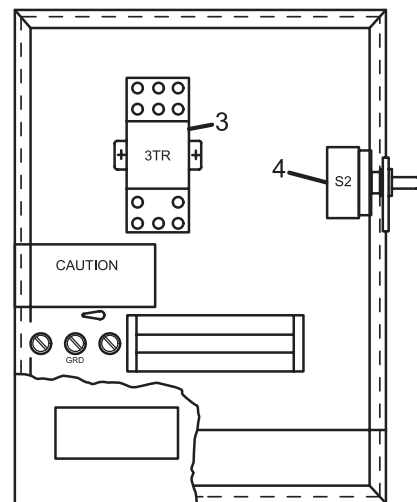
## CURRENT TRANSFORMER KIT AND TRANSFORMER ONLY USE WITH FACTORY-MOUNTED MOTORS ONLY

| MOTOR<br>VOLTAGE | FLA      | "CT"<br>RATIO | PART NUMBER                               |                  |
|------------------|----------|---------------|-------------------------------------------|------------------|
|                  |          |               | TRANSFORMER KIT<br>(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    |

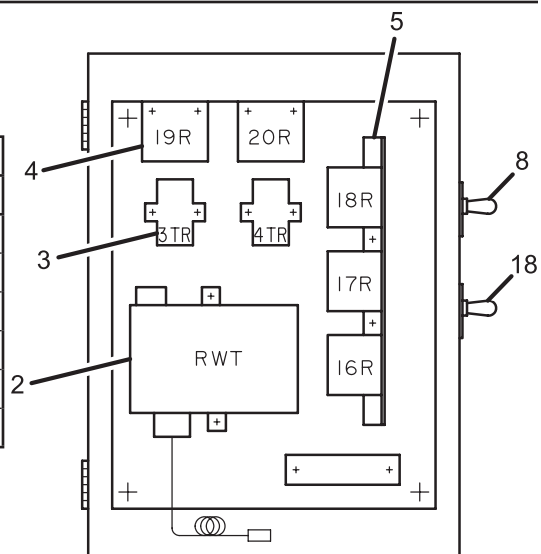
## MULTIPLE UNIT SEQUENCE KIT CONTROLS

| 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        |

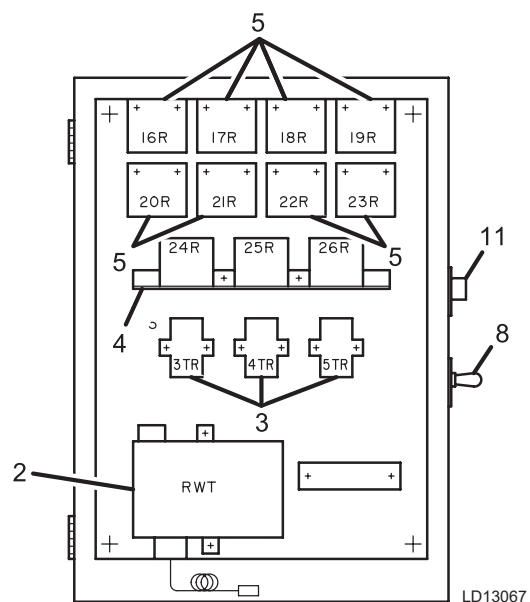
1 Not Shown. Remote Mounted.



| 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<br>(Control Center) | 013 01835 000<br>Purchase Locally |

THIS PAGE INTENTIONALLY LEFT BLANK

## 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        |                 |

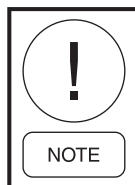
### J7/K7 COMPRESSORS

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:

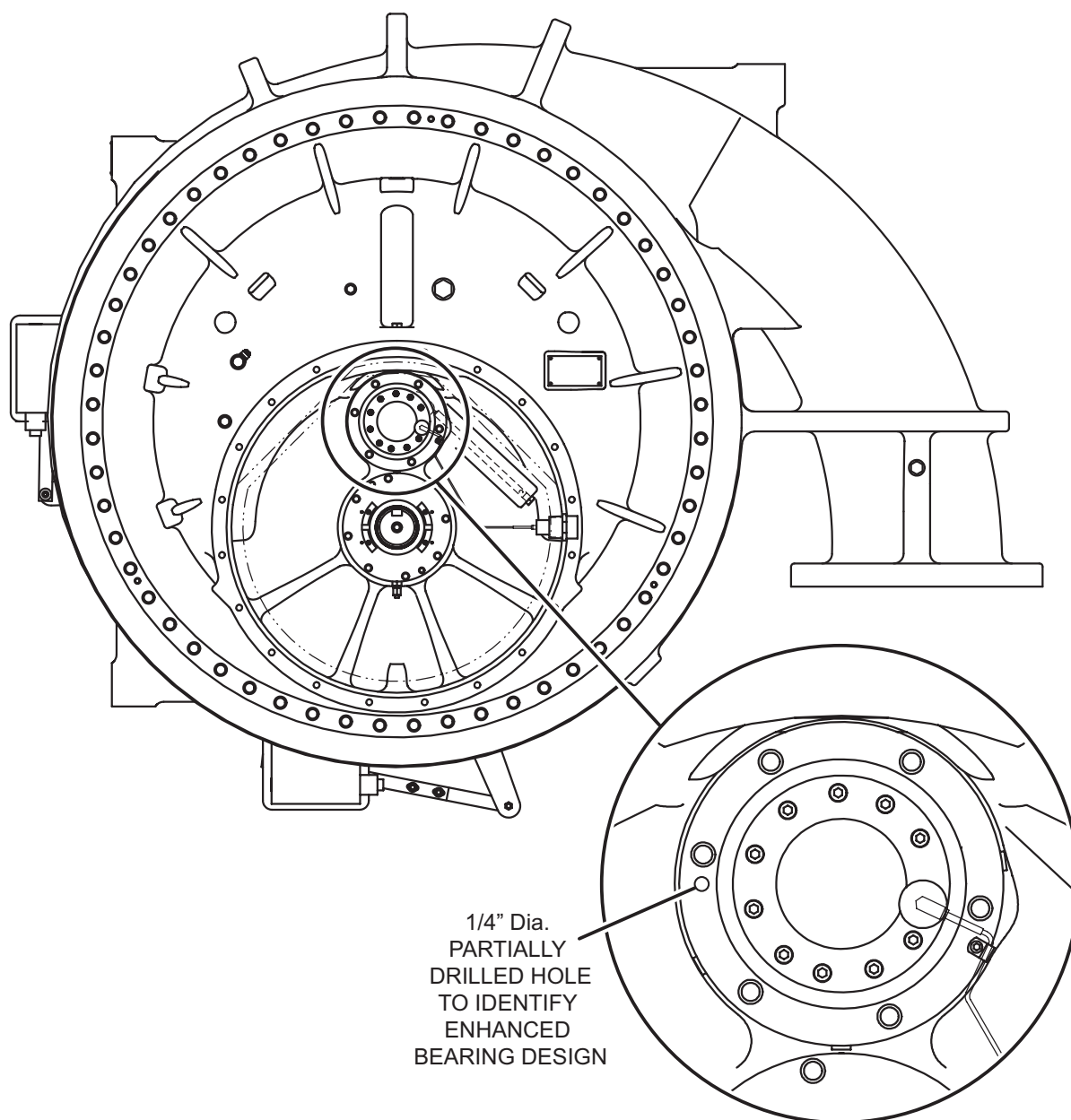
| ITEM                                                            | ORIGINAL PART NUMBER | NEW PART NUMBER |
|-----------------------------------------------------------------|----------------------|-----------------|
| HS Forward Thrust Brg                                           | 029-24759-000        | 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



5000 Renaissance Drive, New Freedom, Pennsylvania USA 17349  
Copyright © by Johnson Controls 2022  
Form 160.69-RP3 (522)  
Issue Date: May 20, 2022  
Supersedes: 160.69-RP3 (316)

1-800-524-1330  
[www.johnsoncontrols.com](http://www.johnsoncontrols.com)

Subject to change without notice. Printed in USA  
ALL RIGHTS RESERVED