



## CENTRIFUGAL COMPRESSORS

### RENEWAL PARTS

Supersedes: See Back Cover

Form 160.48-RP1 (297)

### MODELS YDTL 108, 120 & 126 STYLE F

| COMPRESSOR<br>MODEL | COMPRESSOR<br>CODE | COMPRESSOR<br>PART NO. |
|---------------------|--------------------|------------------------|
| YDTL108             | E1                 | 364-47787-001          |
| YDTL120             | E2                 | 364-47787-002          |
| YDTL126             | E3                 | 364-47787-003          |

### COMPRESSOR TOOLS (464-47951)

| ITEM | DESCRIPTION                              | QUAN.<br>PER UNIT | PART NO.  | ITEM | DESCRIPTION                              | QUAN.<br>PER UNIT | PART NO.  |
|------|------------------------------------------|-------------------|-----------|------|------------------------------------------|-------------------|-----------|
| 1    | Bar, Rd. 3/8 x 7 Lg.                     | 1                 | 064-46402 | 17   | Scr., Cap Hex. 3/8-16 x 2 Lg.            | 2                 | 021-01510 |
| 2    | Pin, Guide No. 10 – 24 UNC x 6 – 1/2 Lg. | 2                 | 064-46488 | 18   | Tool, Coupling Removal                   | 1                 | 064-46743 |
| 3    | Stud, Spl. 1/2 – 20 UN F x 9 Lg.         | 1                 | 064-14500 | 19   | Strap                                    | 1                 | 064-46657 |
| 4    | Nut, Hex Hvy. 1/2 – 20 UNF               | 2                 | 021-00483 | 20   | Washer, Special                          | 1                 | 064-46658 |
| 5    | Pin, Guide 3/8 – 16 UNC x 6 – 1/2 Lg.    | 3                 | 064-18716 | 21   | Scr., Cap Hex Hd. 3/8 – 16 UNC x 5/8 Lg. | 1                 | 021-01463 |
| 6    | Bolt, Eye 7/8                            | 1                 | 021-07703 | 22   | Nut, Hex 3/8 – 16 UNC                    | 1                 | 021-00467 |
| 7    | Guide Pin (1/2" – B)                     | 2                 | 064-46246 | 23   | Stud, Conts. Thd.                        | 2                 | 021-14842 |
| 9    | Pin, Guide 1/4 – 20 UNC x 8 Lg.          | 2                 | 064-46499 | 24   | Bolt, Eye 3/8 – 16 UNC – 2A              | 3                 | 021-13498 |
| 10   | Nut, Hex 1/4 – 20 UNC                    | 4                 | 021-00450 | 25   | Bolt, Eye 5/8 – UNC                      | 1                 | 021-12366 |
| 11   | Bar, Tool                                | 1                 | 064-46611 | 26   | Bolt, Eye 1/2 – 13 UNC – 2A              | 3                 | 021-14620 |
| 12   | Hook Tool                                | 2                 | 064-46610 | 27   | Tool, Coupling Puller                    | 1                 | 064-47411 |
| 14   | Bolt, Eye 3/4                            | 1                 | 021-00307 | 28*  | Set Screw                                | 1                 | 021-08199 |
| 15   | Bar, Coupling                            | 1                 | 064-46251 | 29*  | Cap Screw                                | 2                 | 021-16815 |
| 16   | Scr., Cap Hex 5/8-11 x 1-3/4 Lg.         | 1                 | 021-01628 | 30*  | Washer                                   | 2                 | 021-01275 |
|      |                                          |                   |           | 31*  | Nut, Hex                                 | 2                 | 021-00476 |

\* Use with Item 27

### TOOLS

| DESCRIPTION                   | PART NO.  |
|-------------------------------|-----------|
| Pliers, Waldles Truarc. No. 5 | 029-08590 |
| Pliers Waldles Truarc No. 7   | 029-07934 |
| Hand Oil Pump                 | 470-10654 |
| Hand Oil Pump Seal            | 028-03292 |

### LUBRICANTS, OILS AND COMPOUNDS

| DESCRIPTION                                      | PART NO.  |
|--------------------------------------------------|-----------|
| Thread Compound, ARI High Pressure – 1/4 Pt. Can | 464-14934 |
| Coating Lubricant – Molykote, Type Z-2 Oz. Can   | 364-21508 |
| Oil, York Refrigeration – Type C – 5 Gal. Can    | 011-00312 |

### SEALERS, ADHESIVES & INSULATION TAPE

| ITEM | DESCRIPTION                     | PART NO.  |
|------|---------------------------------|-----------|
| 1    | Varnish Scotch Cast Resin No. 2 | 013-01016 |
| 2    | Sealant                         | 044-00892 |
| 3    | Sealer CR CV                    | 013-01678 |
| 4    | Adhesive                        | 013-00852 |
| 5    | Adhesive Sealing                | 013-02065 |
| 6    | Tape Motor Terminal Insul.      | 010-04101 |
| 7    | Coating Rust Preventive         | 013-02419 |

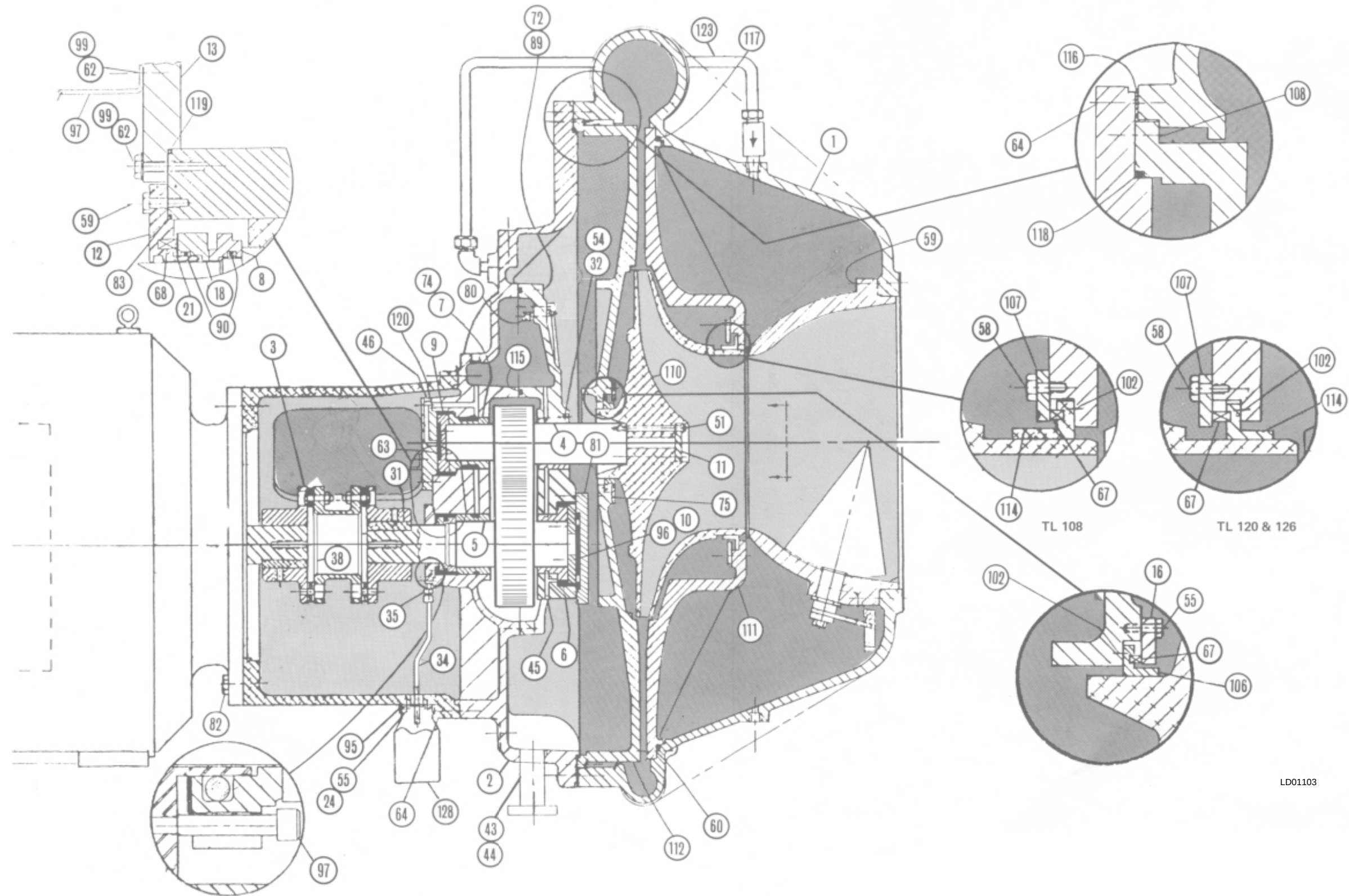
# COMPRESSOR PARTS LIST

## MODELS YDTL 108, 120 & 126

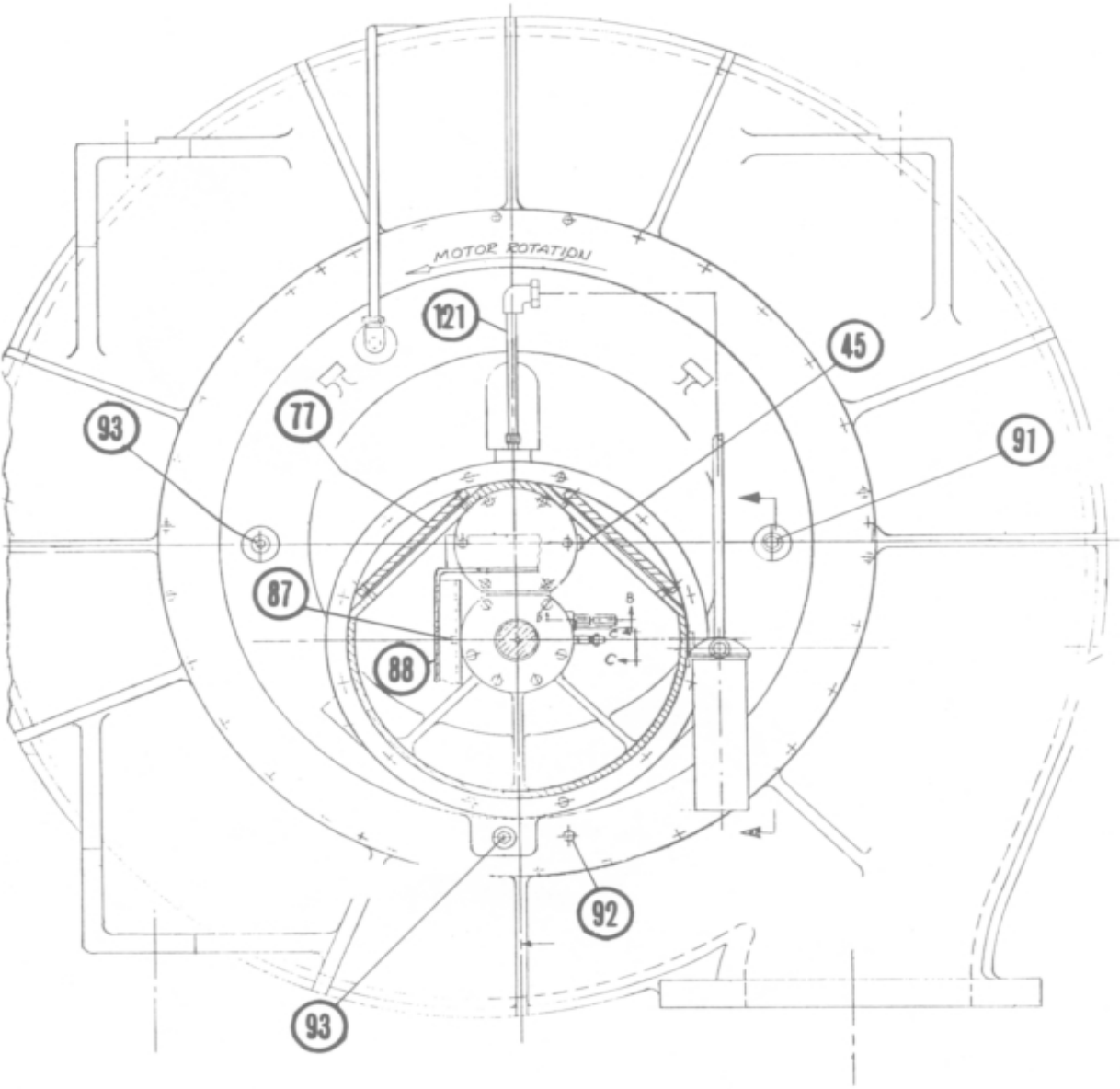
| ITEM | DESCRIPTION                          | QUAN. | PART NO.      |
|------|--------------------------------------|-------|---------------|
| 1    | Scroll, Rotor                        | 1     | 064-47562     |
| 2    | Support, Rotor with Bearing Housing  | 1     | 364-47553     |
| 3    | Coupling, Flex                       | 1     | 029-20204     |
| 4    | Bearing, H.S. Front                  | 1     | 064-47541     |
| 5    | Bearing, L.S. Rear                   | 1     | 064-47544     |
| 6    | Bearing, L.S. Thrust                 | 1     | 064-47543     |
| 7    | Bearing, H.S. Thrust                 | 1     | 064-47542     |
| 8    | Collar, Shaft Seal*                  | 1     | 064-47551     |
| 9    | Collar, Thrust, H.S.                 | 1     | 064-47547     |
| 10   | Collar, Thrust, L.S.                 | 1     | 064-47770     |
| 11   | Collar, Impellar, Clamping           | 1     | 064-47549     |
| 12   | Cover, Shaft Seal*                   | 1     | 064-47550     |
| 13   | Cover, Thrust, H.S.                  | 1     | 064-47545     |
| 14   | Cover, PRV Shaft Control             | 1     | 064-13909     |
| 15   | Shaft, Control, PRV                  | 1     | 364-29573     |
| 16   | Retainer, BP Seal                    | 1     | 064-47587     |
| 17   | Filter, Oil                          | 1     | 026-21982     |
| 18   | Ring, Shaft Seal*                    | 1     | 029-20282     |
| 19   | Valve, Stop Angle                    | 2     | 022-03850     |
| 20   | Ring, Fill Kit                       | 2     | 064-28284     |
| 21   | Washer, Shaft Seal*                  | 1     | 064-47555     |
| 22   | Washer, PRV                          | 1     | 064-08815     |
| 23   | Washer, Plain 9/32" I.D. x 5/8" O.D. | 4     | 021-05165     |
| 24   | Washer, Plain .265" LD. x 1/2" O.D.  | 2     | 021-10189     |
| 25   | Elbow, Flare                         | 2     | 023-10700     |
| 26   | Lever, Internal                      | 1     | 064-47891     |
| 27   | Lever, PRV                           | 1     | 064-47110     |
| 28   | Arm, Motor & PRV                     | 1     | 064-47578     |
| 29   | Link, External, PRV                  | 1     | 064-47519     |
| 30   | Rod, Adjustment, PRV                 | 1     | 064-09080     |
| 31   | Key, Coupling                        | 2     | 064-47333     |
| 32   | Retainer, Bearing                    | 1     | 064-46886     |
| 33   | Tube, Oil Inlet                      | 1     | 064-47886     |
| 34   | Tube                                 | 1     | 064-47557     |
| 35   | Connection, Flare                    | 1     | 023-09668     |
| 36   | Connection, Flare                    | 1     | 023-10696     |
| 37   | Sensor, Temperature                  | 1     | 025-28936     |
| 38   | Plunger, Valve                       | 1     | 0641-4790     |
| 39   | Spring, Valve                        | 1     | 029-06143     |
| 40   | Valve, Oil Relief                    | 1     | 022-08700     |
| 41   | Valve, Stop Angle                    | 2     | 022-03836     |
| 42   | Plug, Hex                            | 1     | 064-46282     |
| 43   | Nipple, Pipe                         | 1     | 023-14721     |
| 44   | Flange, Pipe                         | 1     | 064-46070     |
| 45   | Plug, Pipe, 1/4" Hex Socket          | 5     | 023-01973     |
| 46   | Plug, Pipe, 1/8" Hex Socket          | 1     | 023-01970     |
| 47   | Bolt, Shoulder                       | 1     | 064-33745     |
| 48   | Bolt, Shoulder                       | 1     | 064-28282     |
| 49   | Bearing, Rod End                     | 2     | 029-07015     |
| 50   | Screw, Cap, 12 Pt Head               | 1     | 021-11998     |
| 51   | Screw, Cap, 12 Pt Head               | 7     | 021-17398     |
| 52   | Screw, Cap, 12 Pt Head               | 1     | 021-15683     |
| 53   | Screw, Cap, 12 Pt Head               | 2     | 021-11175     |
| 54   | Screw, Cap, 12 Pt Head               | 1     | 021-11970     |
| 55   | Screw, Cap, Hex Head                 | 5     | 021-01372     |
| 56   | Fillpiece, PR Device                 | 1     | 064-09070     |
| 57   | Tee, 3/4" x 3/4"                     | 1     | 023-11331     |
| 58   | Screw, Cap - 3/8"                    | 3     | 021-10650     |
| 59   | Screw, Cap - 3/8"                    | 9     | 021-01485     |
| 60   | Screw Cap, Socket Head               | 3     | 021-02585     |
| 61   | Screw, Cap - 1/4"                    | 3     | 021-01379     |
| 62   | Screw, Cap - 3/8"                    | 6     | 021-01497     |
| 63   | Screw, Cap - 1/4"                    | 4     | 021-13223     |
| 64   | Screw, Cap - 1/2"                    | 42    | 021-11190     |
| 65   | Screw, Set, Hex Hd.                  | 1     | 021-03910     |
| 66   | Bushing, 3/4"                        | 1     | 023-04039     |
| 67   | Spring, Helical                      | 28    | 029-10757     |
| 68   | Spring, Helical                      | 6     | 029-13770-004 |
| 69   | Lockwasher, 1/4"                     | 2     | 021-05267     |

| ITEM | DESCRIPTION                         | QUAN. | PART NO.      |
|------|-------------------------------------|-------|---------------|
| 70   | Nut, 1/2" Hex                       | 4     | 021-10171     |
| 71   | Nut, 1/4" Hex                       | 8     | 021-00450     |
| 72   | Pin, Dowel                          | 2     | 029-18459     |
| 73   | Screw, Cap - 1/4"                   | 2     | 021-11914     |
| 74   | Pin, Slot, Sprint                   | 2     | 029-03991     |
| 75   | Screw, Cap, Socket Hd.              | 6     | 021-08946     |
| 76   | Gasket, Bellows Cover               | 1     | 028-00781     |
| 77   | Cover, Motor Support                | 2     | 064-47536     |
| 80   | Valve, Oil Check                    | 1     | 022-04444     |
| 81   | Bearing, Thrust (L.S.)              | 1     | 029-20839-001 |
| 82   | Screw, Cap - 3/4"                   | 8     | 021-01661     |
| 83   | Seal, "O" Ring                      | 1     | 028-12205     |
| 84   | Cap, Sealing                        | 1     | 028-08481     |
| 85   | Seal, "O" Ring                      | 2     | 028-12200     |
| 86   | Seal, "O" Ring                      | 1     | 028-12201     |
| 87   | Screw, Cap, 3/8" 12 Pt. Hd.         | 2     | 021-11979     |
| 88   | Guard, Coupling                     | 1     | 064-47552     |
| 89   | Screw, Cap 3/8" Hex                 | 20    | 021-10037     |
| 90   | Seal, "O" Ring                      | 2     | 028-10047     |
| 91   | Plug, Pipe 1"                       | 1     | 023-05909     |
| 92   | Plug, Pipe 3/4"                     | 2     | 023-04208     |
| 93   | Plug, Pipe 1/2"                     | 2     | 023-01994     |
| 94   | Seal, "O" Ring                      | 1     | 028-12209     |
| 95   | Cap, Metal                          | 1     | 066-89574     |
| 96   | Screw, Cap, Soc. Hd. - 1/4"         | 4     | 021-02578     |
| 97   | Screw, Shld., Soc. Hd. -1"          | 3     | 021-17294     |
| 98   | Screw, Cap, Hex Hd. - 3/8"          | 2     | 021-08876     |
| 99   | Washer, Plain, Hardened             | 6     | 021-16814     |
| 100  | Fill Piece                          | 1     | 064-47517     |
| 101  | Screw, Cap, 12 Pt. Hd. -1/2"        | 1     | 021-11517     |
| 102  | Pin, Spring, Slotted - 3/16" x 1/2" | 2     | 029-04138     |
| 103  | Nipple, Pipe, 3/4"                  | 1     | 023-14775     |
| 104  | Elbow, Fiare                        | 1     | 023-09677     |
| 105  | Link, External, PRV                 | 1     | 064-47581     |
| 106  | Ring, Seal                          | 1     | 064-47586     |
| 107  | Retainer, Eye Seal                  | 1     | 064-47585     |
| 108  | Screw, Cap, Hex Soc. Hd. - 1/4"     | 3     | 021-01377     |
| 109  | Screw, Cap, Hex Hd.                 | 2     | 024-13223     |
| 110  | Impeller                            |       |               |
|      | YDTL 108                            | 1     | 064-47772     |
|      | YDTL 120                            | 1     | 064-47771     |
|      | YDTL 126                            | 1     | 064-47775     |
| 111  | Plate, Nozzle Base                  |       |               |
|      | YDTL 108                            | 1     | 064-47777     |
|      | YDTL 120                            | 1     | 064-47778     |
|      | YDTL 126                            | 1     | 064-47783     |
| 112  | Plate, Diffuser                     |       |               |
|      | YDTL 108                            | 1     | 064-47779     |
|      | YDTL 120                            | 1     | 064-47780     |
|      | YDTL126                             | 1     | 064-47781     |
| 113  | Device, Pre-rotation                | 1     | See Fig. 2    |
| 114  | Ring, Seal (Eye)                    |       |               |
|      | YDTL 108                            | 1     | 064-47784     |
|      | YDTL 120                            | 1     | 064-47785     |
|      | YDTL 126                            | 1     | 064-47786     |
| 115  | Seal, "O" Ring                      | 1     | 028-12206     |
| 116  | Gasket, Diffuser Plate              | 1     | 064-47451     |
| 117  | Seal, "O" Ring                      | 1     | 028-11951     |
| 118  | Seal, "O" Ring                      | 1     | 028-10875     |
| 119  | Seal, "O" Ring                      | 1     | 028-12207     |
| 120  | Seal, "O" Ring                      | 1     | 028-11998     |
| 121  | Nipple, 3/4"                        | 1     | 023-14471     |
| 122  | Elbow, Fare                         | 1     | 023-11364     |
| 123  | Tube, Equalizing                    | 1     | 064-47885     |
| 124  | Screw, Cap, Hex - 3/8"              | 10    | 021-01477     |
| 125  | Motor, Actuator                     | 1     | 025-17175     |
| 126  | Gasket Discharge Flange             | 1     | 075-02351     |
| 127  | Gasket, Suction Flange              | 1     | 075-02354     |
| 128  | Bottle, Oil Catch                   | 1     | 028-10579     |

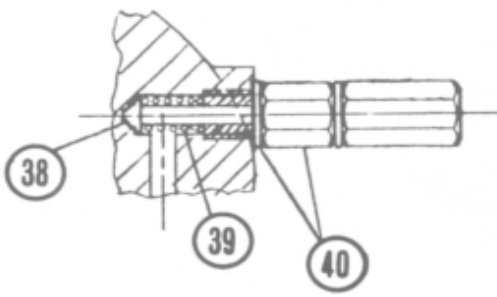
\* NOTE: For additional information on Shaft Seal Replacement, see page 10.



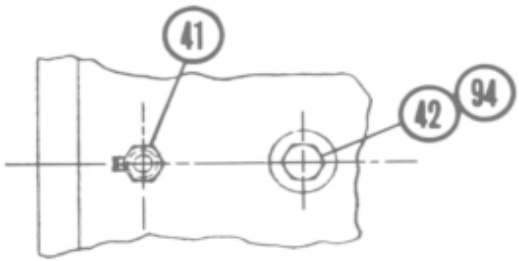
LD01103



SECTION F-F



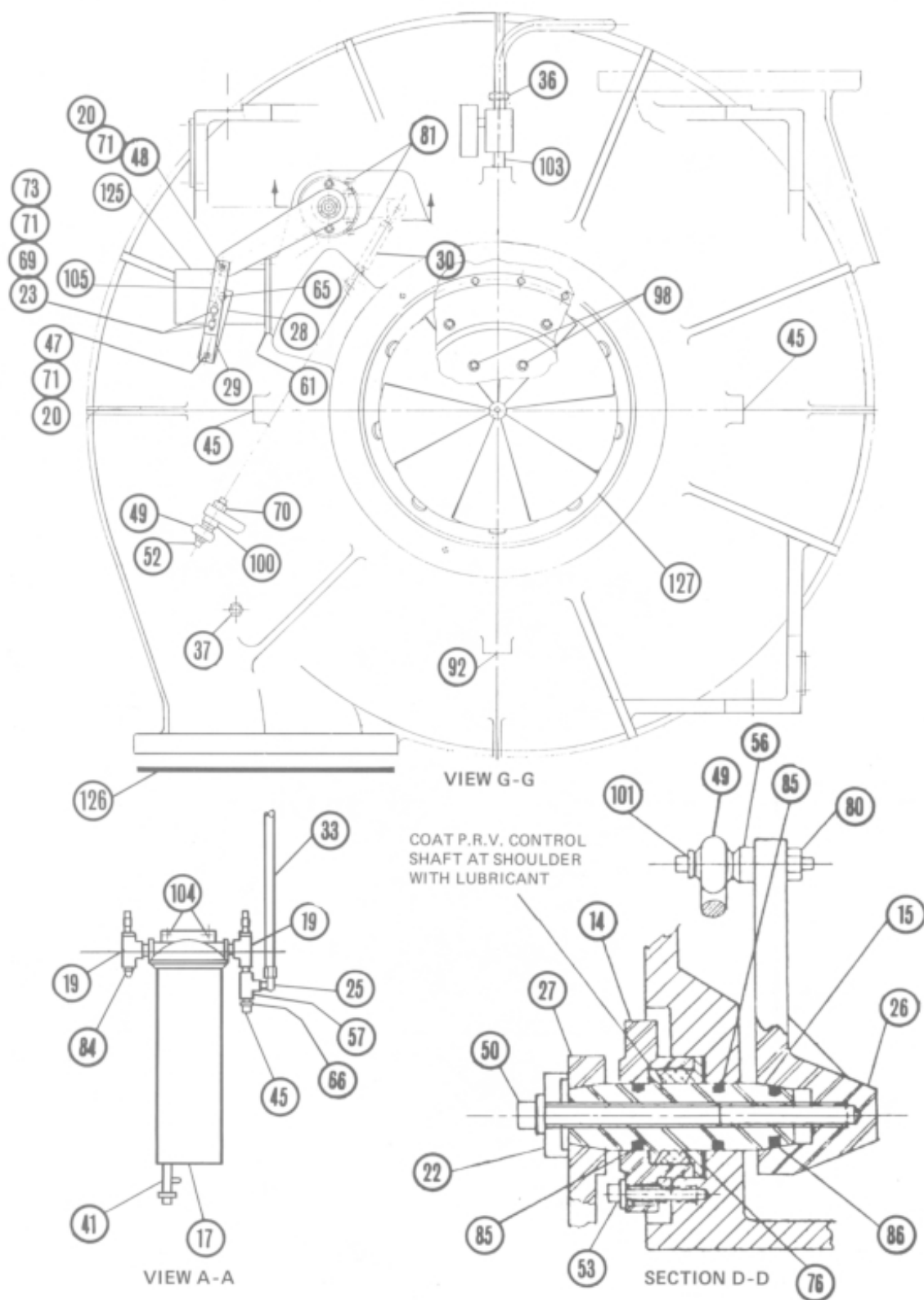
SECTION B-B



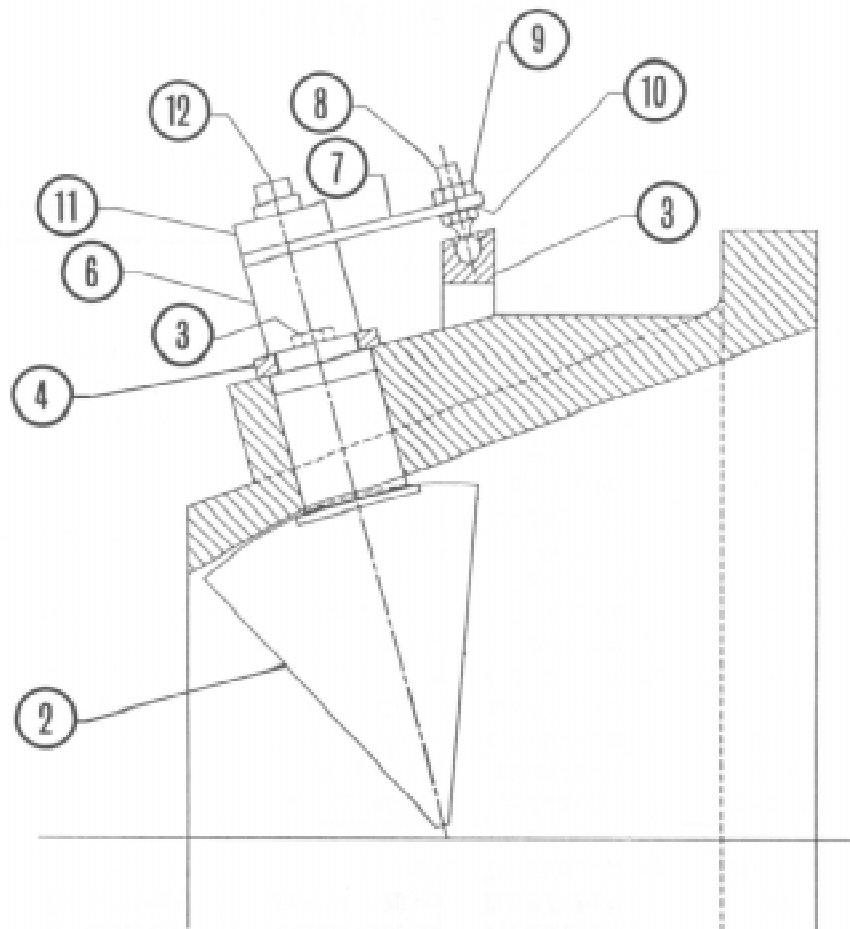
VIEW C-C

LD01100

FIG. 1 (Cont'd) – MODEL YDTL COMPRESSOR ASSEMBLY



LD01101



LD01102

| ITEM | DESCRIPTION                            | QUAN. | PART NO.      |
|------|----------------------------------------|-------|---------------|
|      | Pre-rotation Housing Assembly Complete |       |               |
|      | YDTL 108                               | 1     | 364-47769-001 |
|      | YDTL 120                               | 1     | 364-47769-002 |
|      | YDTL 126                               | 1     | 364-47769-003 |
|      | (Consisting of Following Items)        |       |               |
| 1    | Housing Pre-rotation Vanes             |       |               |
|      | YDTL 108                               | 1     | 064-47773     |
|      | YDTL 120                               | 1     | 064-47774     |
|      | YDTL 126                               | 1     | 064-47782     |
| 2    | Vane, Pre-rotation                     | 9     | 064-47571     |
| 3    | Ring, Vane, Driving                    | 1     | 064-46784     |
| 4    | Retainer, PRV                          | 9     | 064-47575     |
| 5    | Screw, Cap, Hex Hd. – 1/4"             | 18    | 021-01372     |
| 6    | Washer, Special                        | 9     | 064-47573     |
| 7    | Arm, PRV                               | 9     | 064-22658     |
| 8    | Stud, Ball                             | 9     | 029-07017     |
| 9    | Nut, Self Locking – 1/4"               | 9     | 021-12943     |
| 10   | Washer, Plain                          | 18    | 021-11973     |
| 11   | Washer, Special                        | 9     | 064-47574     |
| 12   | Screw, Cap, 12 Pt – 5/8"               | 9     | 021-17265     |

FIG. 2 – PREROTATION VANE HOUSING AND PARTS

## 60 HZ MOTORS

| MOTOR<br>CODE | NAMEPLATE<br>VOLTAGE | MOTOR PART NUMBER |               |               | MOTOR<br>SUPPORT |
|---------------|----------------------|-------------------|---------------|---------------|------------------|
|               |                      | RELIANCE          | SIEMENS       | TOSHIBA       |                  |
| CN            | 200 or 208           | 024-23992-064     | 024-23992-264 | —             | 064-47535<br>↓   |
| CN            | 230 or 240           | 024-23992-065     | 024-23992-265 | 024-23992-665 |                  |
| CN            | 380                  | 024-23992-066     | 024-23992-266 | 024-23992-666 |                  |
| CN            | 416                  | 024-23992-067     | 024-23992-267 | 024-23992-667 |                  |
| CN            | 440, 460 or 480      | 024-23992-068     | 024-23992-268 | 024-23992-668 |                  |
| CN            | 575 or 600           | 024-23992-069     | 024-23992-269 | 024-23992-669 |                  |
| CN            | 2300                 | 024-23992-070     | 024-23992-270 | —             |                  |
| CN            | 3300                 | 024-23992-071     | 024-23992-271 | —             |                  |
| CN            | 4000 or 4160         | 024-23992-072     | 024-23992-272 | —             |                  |
| CP            | 200 or 208           | 024-23992-073     | —             | —             |                  |
| CP            | 230 or 240           | 024-23992-074     | —             | —             |                  |
| CP            | 380                  | 024-23992-075     | 024-23992-275 | 024-23992-675 |                  |
| CP            | 416                  | 024-23992-076     | 024-23992-276 | 024-23992-676 |                  |
| CP            | 440, 460 or 480      | 024-23992-077     | 024-23992-277 | 024-23992-677 |                  |
| CP            | 575 or 600           | 024-23992-078     | 024-23992-278 | 024-23992-678 |                  |
| CP            | 2300                 | 024-23992-079     | 024-23992-279 | —             |                  |
| CP            | 3300                 | 024-23992-080     | 024-23992-280 | —             |                  |
| CP            | 4000 or 4160         | 024-23992-081     | 024-23992-281 | —             |                  |
| CR            | 200 or 208           | 024-24056-001     | —             | —             |                  |
| CR            | 230 or 240           | 024-24056-002     | —             | —             |                  |
| CR            | 380                  | 024-24056-003     | 024-24056-203 | 024-24056-603 |                  |
| CR            | 416                  | 024-24056-004     | 024-24056-204 | 024-24056-604 |                  |
| CR            | 440, 460 or 480      | 024-24056-005     | 024-24056-205 | 024-24056-605 |                  |
| CR            | 575 or 600           | 024-24056-006     | 024-24056-206 | 024-24056-606 |                  |
| CR            | 2300                 | 024-24056-007     | 024-24056-207 | —             |                  |
| CR            | 3300                 | 024-24056-008     | 024-24056-208 | —             |                  |
| CR            | 4000 or 4160         | 024-24056-009     | 024-24056-209 | —             |                  |
| CS            | 200 or 208           | 024-24056-010     | —             | —             |                  |
| CS            | 230 or 240           | 024-24056-011     | —             | —             |                  |
| CS            | 380                  | 024-24056-012     | 024-24056-212 | 024-24056-612 |                  |
| CS            | 416                  | 024-24056-013     | 024-24056-213 | 024-24056-613 |                  |
| CS            | 440, 460 or 480      | 024-24056-014     | 024-24056-214 | 024-24056-614 |                  |
| CS            | 575 or 600           | 024-24056-015     | 024-24056-215 | 024-24056-615 |                  |
| CS            | 2300                 | 024-24056-016     | 024-24056-216 | —             |                  |
| CS            | 3300                 | 024-24056-017     | 024-24056-217 | —             |                  |
| CS            | 4000 or 4160         | 024-24056-018     | 024-24056-218 | —             |                  |

(Continued On Next Page)

**60 HZ MOTORS**

(Continued)

| MOTOR CODE | NAMEPLATE VOLTAGE | MOTOR PART NUMBER |               |               | MOTOR SUPPORT  |
|------------|-------------------|-------------------|---------------|---------------|----------------|
|            |                   | RELIANCE          | SIEMENS       | TOSHIBA       |                |
| CT         | 230 or 240        | 024-24056-020     | —             | —             | 064-47535<br>↓ |
| CT         | 380               | 024-24056-021     | 024-24056-221 | 024-24056-621 |                |
| CT         | 416               | 024-24056-022     | 024-24056-222 | 024-24056-622 |                |
| CT         | 440, 460 or 480   | 024-24056-023     | 024-24056-223 | 024-24056-623 |                |
| CT         | 575 or 600        | 024-24056-024     | 024-24056-224 | 024-24056-624 |                |
| CT         | 2300              | 024-24056-025     | 024-24056-225 | —             |                |
| CT         | 3300              | 024-24056-026     | 024-24056-226 | —             |                |
| CT         | 4000 or 4160      | 024-24056-027     | 024-24056-227 | —             |                |
| CU         | 230 or 240        | 024-24056-029     | —             | —             |                |
| CU         | 380               | 024-24056-030     | 024-24056-230 | 024-24056-630 |                |
| CU         | 416               | 024-24056-031     | 024-24056-231 | 024-24056-631 |                |
| CU         | 440, 460 or 480   | 024-24056-032     | 024-24056-232 | 024-24056-632 |                |
| CU         | 575 or 600        | 024-24056-033     | 024-24056-233 | 024-24056-633 |                |
| CU         | 2300              | 024-24056-034     | 024-24056-234 | —             |                |
| CU         | 3300              | 024-24056-035     | 024-24056-235 | —             |                |
| CU         | 4000 or 4160      | 024-24056-036     | 024-24056-236 | —             |                |
| CV         | 380               | 024-24056-039     | 024-24056-239 | —             |                |
| CV         | 416               | 024-24056-040     | 024-24056-240 | 024-24056-640 |                |
| CV         | 440, 460 or 480   | 024-24056-041     | 024-24056-241 | 024-24056-641 |                |
| CV         | 575 or 600        | 024-24056-042     | 024-24056-242 | 024-24056-642 |                |
| CV         | 2300              | 024-24056-043     | 024-24056-243 | —             |                |
| CV         | 3300              | 024-24056-044     | 024-24056-244 | —             |                |
| CV         | 4000 or 4160      | 024-24056-045     | 024-24056-245 | —             |                |
| CW         | 380               | 024-24056-048     | 024-24056-248 | —             |                |
| CW         | 416               | 024-24056-049     | 024-24056-249 | —             |                |
| CW         | 440, 460 or 480   | 024-24056-050     | 024-24056-250 | 024-24056-650 |                |
| CW         | 575 or 600        | 024-24056-051     | 024-24056-251 | 024-24056-651 |                |
| CW         | 2300              | 024-24056-052     | 024-24056-252 | —             |                |
| CW         | 3300              | 024-24056-053     | 024-24056-253 | —             |                |
| CW         | 4000 or 4160      | 024-24056-054     | 024-24056-254 | —             |                |
| CX         | 380               | 024-24056-057     | 024-24056-257 | —             |                |
| CX         | 416               | 024-24056-058     | 024-24056-258 | —             |                |
| CX         | 440, 460 or 480   | 024-24056-059     | 024-24056-259 | —             |                |
| CX         | 575 or 600        | 024-24056-060     | 024-24056-260 | —             |                |
| CX         | 2300              | 024-24056-061     | 024-24056-261 | —             |                |
| CX         | 3300              | 024-24056-062     | 024-24056-262 | —             |                |
| CX         | 4000 or 4160      | 024-24056-063     | 024-24056-263 | —             |                |

## 50 HZ MOTORS

| MOTOR CODE | NAMEPLATE VOLTAGE | MOTOR PART NUMBER |               |               | MOTOR SUPPORT  |
|------------|-------------------|-------------------|---------------|---------------|----------------|
|            |                   | RELIANCE          | SIEMENS       | TOSHIBA       |                |
| 5CK        | 220               | 024-24056-101     | 024-24056-301 | —             | 064-47535<br>↓ |
| 5CK        | 346               | 024-24056-004     | 024-24056-204 | 024-24056-604 |                |
| 5CK        | 380 or 400        | 024-24056-005     | 024-24056-205 | 024-24056-605 |                |
| 5CK        | 415               | 024-24056-104     | 024-24056-304 | 024-24056-754 |                |
| 5CK        | 440               | 024-24056-105     | 024-24056-305 | 024-24056-755 |                |
| 5CK        | 500               | 024-24056-006     | 024-24056-206 | 024-24056-606 |                |
| 5CK        | 2300              | 024-24056-107     | 024-24056-307 | —             |                |
| 5CK        | 3000              | 024-24056-108     | 024-24056-308 | —             |                |
| 5CK        | 3300              | 024-24056-009     | 024-24056-209 | —             |                |
| 5CL        | 220               | 064-24056-110     | 024-24056-310 | —             |                |
| 5CL        | 346               | 064-24056-013     | 024-24056-213 | 024-24056-613 |                |
| 5CL        | 380 or 400        | 064-24056-014     | 024-24056-214 | 024-24056-614 |                |
| 5CL        | 415               | 064-24056-113     | 024-24056-313 | 024-24056-763 |                |
| 5CL        | 440               | 064-24056-114     | 024-24056-314 | 024-24056-764 |                |
| 5CL        | 500               | 064-24056-015     | 024-24056-215 | 024-24056-615 |                |
| 5CL        | 2300              | 064-24056-116     | 024-24056-316 | —             |                |
| 5CL        | 3000              | 064-24056-117     | 024-24056-317 | —             |                |
| 5CL        | 3300              | 064-24056-018     | 024-24056-218 | —             |                |
| 5CM        | 220               | 064-24056-119     | —             | —             |                |
| 5CM        | 346               | 064-24056-022     | 024-24056-222 | 024-24056-622 |                |
| 5CM        | 380 or 400        | 064-24056-023     | 024-24056-223 | 024-24056-623 |                |
| 5CM        | 415               | 064-24056-122     | 024-24056-322 | 024-24056-742 |                |
| 5CM        | 440               | 064-24056-123     | 024-24056-323 | 024-24056-773 |                |
| 5CM        | 500               | 064-24056-024     | 024-24056-224 | 024-24056-624 |                |
| 5CM        | 2300              | 064-24056-125     | 024-24056-325 | —             |                |
| 5CM        | 3000              | 064-24056-126     | 024-24056-326 | —             |                |
| 5CM        | 3300              | 064-24056-027     | 024-24056-227 | —             |                |
| 5CN        | 220               | 024-24056-128     | —             | —             |                |
| 5CN        | 346               | 024-24056-031     | 024-24056-231 | 024-24056-631 |                |
| 5CN        | 380 or 400        | 024-24056-032     | 024-24056-232 | 024-24056-632 |                |
| 5CN        | 415               | 024-24056-131     | 024-24056-331 | 024-24056-731 |                |
| 5CN        | 440               | 024-24056-132     | 024-24056-332 | 024-24056-732 |                |
| 5CN        | 500               | 024-24056-033     | 024-24056-233 | 024-24056-633 |                |
| 5CN        | 2300              | 024-24056-134     | 024-24056-334 | —             |                |
| 5CN        | 3000              | 024-24056-135     | 024-24056-335 | —             |                |
| 5CN        | 3300              | 024-24056-036     | 024-24056-236 | —             |                |

## 50 HZ MOTORS

(Continued)

| MOTOR<br>CODE | NAMEPLATE<br>VOLTAGE | MOTOR PART NUMBER |               |               | MOTOR<br>SUPPORT |
|---------------|----------------------|-------------------|---------------|---------------|------------------|
|               |                      | RELIANCE          | SIEMENS       | TOSHIBA       |                  |
| 5CO           | 220                  | 024-24056-137     | —             | —             | 064-47535<br>↓   |
| 5CO           | 346                  | 024-24056-040     | 024-24056-240 | 024-24056-640 |                  |
| 5CO           | 380 or 400           | 024-24056-041     | 024-24056-241 | 024-24056-641 |                  |
| 5CO           | 415                  | 024-24056-140     | 024-24056-340 | 024-24056-740 |                  |
| 5CO           | 440                  | 024-24056-141     | 024-24056-341 | 024-24056-741 |                  |
| 5CO           | 500                  | 024-24056-042     | 024-24056-242 | 024-24056-642 |                  |
| 5CO           | 2300                 | 024-24056-143     | 024-24056-343 | —             |                  |
| 5CO           | 3000                 | 024-24056-144     | 024-24056-344 | —             |                  |
| 5CO           | 3300                 | 024-24056-045     | 024-24056-245 | —             |                  |
| 5CP           | 346                  | 024-24056-049     | 024-24056-249 | —             |                  |
| 5CP           | 380 or 400           | 024-24056-050     | 024-24056-250 | 024-24056-650 |                  |
| 5CP           | 415                  | 024-24056-149     | 024-24056-349 | 024-24056-749 |                  |
| 5CP           | 440                  | 024-24056-150     | 024-24056-350 | 024-24056-750 |                  |
| 5CP           | 500                  | 024-24056-051     | 024-24056-251 | 024-24056-651 |                  |
| 5CP           | 2300                 | 024-24056-152     | 024-24056-352 | —             |                  |
| 5CP           | 3000                 | 024-24056-153     | 024-24056-353 | —             |                  |
| 5CP           | 3300                 | 024-24056-054     | 024-24056-254 | —             |                  |
| 5CQ           | 346                  | 024-24056-058     | 024-24056-258 | —             |                  |
| 5CQ           | 380 or 400           | 024-24056-059     | 024-24056-259 | —             |                  |
| 5CQ           | 415                  | 024-24056-158     | 024-24056-358 | —             |                  |
| 5CQ           | 440                  | 024-24056-159     | 024-24056-359 | —             |                  |
| 5CQ           | 500                  | 024-24056-060     | 024-24056-260 | —             |                  |
| 5CQ           | 2300                 | 024-24056-161     | 024-24056-361 | —             |                  |
| 5CQ           | 3000                 | 024-24056-162     | 024-24056-362 | —             |                  |
| 5CQ           | 3300                 | 024-24056-063     | 024-24056-263 | —             |                  |
| 5CR           | 346                  | 024-24056-165     | 024-24056-365 | —             |                  |
| 5CR           | 380 or 400           | 024-24056-166     | 024-24056-366 | —             |                  |
| 5CR           | 415                  | 024-24056-167     | 024-24056-367 | —             |                  |
| 5CR           | 440                  | 024-24056-168     | 024-24056-368 | —             |                  |
| 5CR           | 500                  | 024-24056-169     | 024-24056-369 | —             |                  |
| 5CR           | 2300                 | 024-24056-170     | 024-24056-370 | —             |                  |
| 5CR           | 3000                 | 024-24056-171     | 024-24056-371 | —             |                  |
| 5CR           | 3300                 | 024-24056-172     | 024-24056-372 | —             |                  |

## GEAR SETS

| SPEED CODE | PART NO.      |
|------------|---------------|
| BR         | 029-14400-510 |
| BS         | 029-14400-511 |
| BT         | 029-14400-512 |
| BU         | 029-14400-513 |
| BV         | 029-14400-514 |
| BW         | 029-14400-515 |
| BX         | 029-14400-516 |
| BY         | 029-14400-517 |
| BZ         | 029-14400-518 |
| CA         | 029-14400-519 |
| CB         | 029-14400-520 |
| CC         | 029-14400-521 |
| CD         | 029-14400-522 |
| CE         | 029-14400-523 |
| CF         | 029-14400-524 |
| CG         | 029-14400-525 |
| CH         | 029-14400-526 |
| CJ         | 029-14400-527 |
| CK         | 029-14400-528 |
| CL         | 029-14400-529 |
| CM         | 029-14400-530 |

| SPEED CODE      | PART NO.      |
|-----------------|---------------|
| CN              | 029-14400-531 |
| CP              | 029-14400-532 |
| CQ              | 029-14400-533 |
| CR              | 029-14400-534 |
| CS              | 029-14400-535 |
| CT              | 029-14400-536 |
| CU              | 029-14400-537 |
| CV <sup>1</sup> | 029-14400-538 |
| CW              | 029-14400-539 |
| CX              | 029-14400-540 |
| CY              | 029-14400-541 |
| CZ <sup>2</sup> | 029-14400-542 |
| DA              | 029-14400-543 |
| DB              | 029-14400-544 |
| DC              | 029-14400-545 |
| DD              | 029-14400-546 |
| DE              | 029-14400-547 |
| DF              | 029-14400-548 |

<sup>1</sup> Max. gear code for E2 compressor with 60 hertz turbo-modulator.

<sup>2</sup> Max. gear code for E1 compressor with 60 hertz turbo-modulator.

**FIG. 3 – YDTL 108, 120 AND 126 GEAR SETS (50 & 60 HERTZ)**

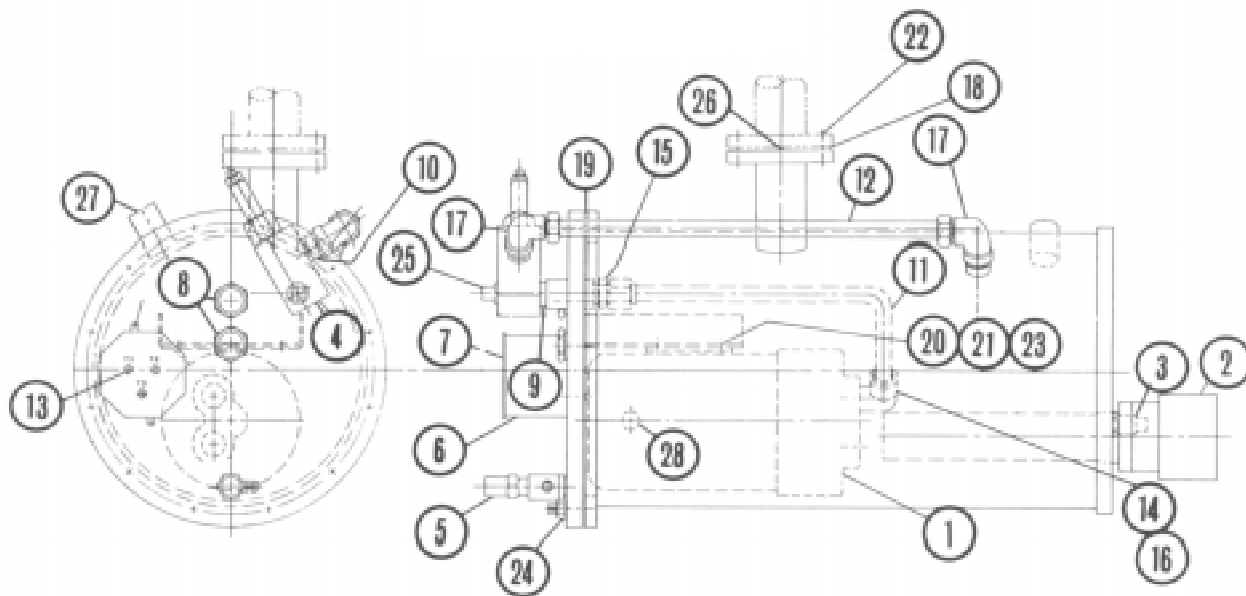
## SHAFT SEAL REPLACEMENT

If you have a unit(s) that have a history of Shaft Seal leaks, it is recommended that you use one of the new kits when you need to change one out. This is, of course, once you've eliminated other causes, i.e. misalignment, etc.

The new kits have been set up in two (2) categories. They are:

1. **Replacement** – (Part No. 464-47829). This kit is needed to make the initial changeout to the new style seal. It will contain a new cover plate.
2. **Maintenance** – (Part No. 464-47830). This kit is used after the initial changeout and does not contain the cover plate.

## OIL SUMP ASSEMBLY



LD01104

| ITEM | DESCRIPTION         | QUAN. | PART NO.        | ITEM | DESCRIPTION         | QUAN. | PART NO.  |
|------|---------------------|-------|-----------------|------|---------------------|-------|-----------|
| 1    | Pump                | 1     | See Table Below | 15   | Conn., Flare        | 1     | 023-10166 |
| 2    | Heater              | 1     | 025-09445       | 16   | Elbow, Flare        | 1     | 023-11348 |
| 3    | Sensor, Temp.       | 1     | 025-28936       | 17   | Elbow, Flare        | 2     | 023-11364 |
| 4    | Valve, Relief       | 1     | 022-06801       | 18   | Gasket              | 1     | 075-02359 |
| 5    | Valve, Stop         | 1     | 022-01582       | 19   | Gasket, Cover Plate | 1     | 075-02360 |
| 6    | Box, Elec.          | 1     | 025-10290       | 20   | Washer, Plain       | 8     | 021-05166 |
| 7    | Cover, Elec. Box    | 1     | 025-10291       | 21   | Screw, Cap – 5/16"  | 4     | 021-01418 |
| 8    | Sight Glass         | 2     | 026-17581       | 22   | Screw, Cap – 1/2"   | 4     | 021-01573 |
| 9    | Nipple, Pipe – 3/4" | 1     | 023-14775       | 23   | Nut Hex – 5/16"     | 4     | 021-00461 |
| 10   | Nipple, Pipe – 3/4" | 1     | 023-14464       | 24   | Nut Hex – 1/2"      | 12    | 021-00482 |
| 11   | Conn., Tube         | 1     | 366-82918       | 25   | Plug, Pipe – 3/4"   | 1     | 023-04053 |
| 12   | Conn., Tube         | 1     | 066-90971       | 26   | Cap, Sealing        | 1     | 028-04656 |
| 13   | Terminal            | 3     | 025-15923       | 27   | Plug, Pipe – 1"     | 1     | 023-04054 |
| 14   | Bushing, Pipe       | 1     | 023-04045       | 28   | Bushing, Snap       | 1     | 025-09848 |

FIG. 4 – OIL SUMP CUTAWAY VIEW

### \*OIL PUMP & MOTOR REPLACEMENT (1140 RPM)

| VOLTAGE                                                | PART NO.  | PUMP ONLY |
|--------------------------------------------------------|-----------|-----------|
| 200, 208, 220, 230,<br>240, 416, 440, 460,<br>480-3-60 | 026-28153 | 026-28166 |
| 550, 575<br>600-3-60                                   | 026-28154 | 026-28166 |
| 380-3-60                                               | 026-28155 | 026-28166 |
| 346-3-50                                               | 026-28156 | 026-28166 |
| 220, 440-3-50                                          | 026-28157 | 026-28166 |
| 380, 400<br>415-3-50                                   | 026-28158 | 026-28166 |

### 1140 RPM MOTOR

| PART NO.  | VOLTAGE            |
|-----------|--------------------|
| 024-23153 | 220/440 60 Hz      |
| 024-23154 | 380/400, 416 50 Hz |

# SERVICE KITS

## GASKET KIT (364-47948)

| ITEM | COMMON PARTS                                     |       |           |
|------|--------------------------------------------------|-------|-----------|
|      | DESCRIPTION                                      | QUAN. | PART NO.  |
| 1    | Seal, "O" Ring –<br>4-7/8" ID x 5-1/8" OD x 1/8" | 1     | 028-12207 |
| 2    | Seal, "O" Ring – 3/8" ID x 1/16"                 | 1     | 028-11998 |
| 3    | Seal, "O" Ring –<br>7-3/4" ID x 8" OD x 1/8"     | 1     | 028-12206 |
| 4    | Seal, "O" Ring – .301" ID x .064"                | 1     | 028-12209 |
| 5    | Seal, "O" Ring – 1-1/8" ID x 1/8"                | 2     | 028-12200 |
| 6    | Seal, "O" Ring – 1" ID x 1/8"                    | 1     | 028-12201 |
| 7    | Gasket, BLWS Cover –<br>3/4" x 1-1/4"            | 1     | 028-00781 |

## GASKET KIT VARIABLE PARTS - Order as needed

| DESCRIPTION                 | 108       | 120       | 126       |
|-----------------------------|-----------|-----------|-----------|
| Seal, "O" Ring – 34.410" ID | 028-10875 | 028-10875 | 028-10875 |
| Seal, "O" Ring – 36.548" ID | 028-11951 | 028-11951 | 028-11951 |
| Gasket, Diff. Plate         | 064-47451 | 064-47451 | 064-47451 |
| Seal, "O" Ring – 41.800" ID | —         | —         | —         |
| Gasket, Diff. Plate         | —         | —         | —         |

## BEARING KIT (364-47949)

| ITEM | COMMON PARTS                    |       |           |
|------|---------------------------------|-------|-----------|
|      | DESCRIPTION                     | QUAN. | PART NO.  |
| 1    | Bearing, H.S. Front             | 1     | 064-47541 |
| 2    | Bearing, L.S. Gear Rear         | 1     | 064-47544 |
| 3    | Bearing, L.S. Thrust            | 1     | 064-47543 |
| 4    | Bearing, H.S. Thrust            | 1     | 064-47542 |
| 5    | Collar, H.S.                    | 1     | 064-47547 |
| 6    | Collar, L.S.                    | 1     | 064-47770 |
| 7    | Cover, Thrust H.S.              | 1     | 064-47545 |
| 8    | Screw, Cap 1/4 – 20 UN          | 4     | 021-13223 |
| 9    | Spring, HEI-Comp. Value         | 28    | 029-10757 |
| 10   | Screw, Cap Hex Soc HD 1/4"      | 4     | 021-02578 |
| 11   | Pin, Slot Spring – 3/16" x 1/2" | 2     | 029-04138 |

## BEARING KIT VARIABLE PARTS – Order as needed

| DESCRIPTION               | 108       | 120       | 126       |
|---------------------------|-----------|-----------|-----------|
| Thrust Bearing – Def. Pad | 029-20839 | 029-20839 | 029-20839 |
| Ring Seal, B.P.           | 064-47586 | 064-47586 | 064-47586 |
| Ring, Eye Seal, Impeller  | 064-47784 | 064-47785 | 064-47786 |

## SHAFT SEAL KIT (364-47950)

| ITEM | COMMON PARTS                                     |       |           |
|------|--------------------------------------------------|-------|-----------|
|      | DESCRIPTION                                      | QUAN. | PART NO.  |
| 1    | Collar, Shaft Seal                               | 1     | 064-47551 |
| 2    | Cover, Shaft Seal                                | 1     | 064-47550 |
| 3    | Ring, Shaft Seal                                 | 1     | 029-20282 |
| 4    | Washer, Shaft Seal                               | 1     | 064-47555 |
| 5    | Spring, Helical                                  | 6     | 029-13770 |
| 6    | Seal, "O" Ring –<br>4-1/8" ID x 4-3/8" OD x 1/8" | 1     | 028-12205 |
| 7    | Seal, "O" Ring – 2-5/8" ID x 3/16"               | 2     | 028-10047 |



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