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**GARDNER DENVER®**

13-10-511  
3rd Edition  
May, 1998

**ELECTRA-SAVER®**  
**STATIONARY BASE-MOUNTED**  
**COMPRESSORS**

**WITH CONSTANT SPEED OR**  
**AUTOMATIC START/TIMED STOP**  
**CONTROL – 50/60 HZ**

**MODELS**

**350 HP**

**EAYQSF & EAYSSF**

**400 HP**

**EAYQTF & EAYSTF**

**500 HP**

**EAYQVF & EAYSVF**

**PARTS LIST**

**Gardner**  
**Denver**

*Manual Brought to You By: [IndustrialAirPower.com](http://IndustrialAirPower.com)*

## **INSTRUCTIONS FOR ORDERING REPAIR PARTS**

When ordering parts, specify Compressor MODEL, Method of Cooling, HORSE-POWER and SERIAL NUMBER (see nameplate on unit). The Serial Number is also stamped on top of the cylinder flange to the right of the inlet housing.

All orders for Parts should be placed with the nearest authorized distributor.

Where NOT specified, quantity of parts required per compressor or unit is one (1); where more than one is required per unit, quantity is indicated in parenthesis. SPECIFY EXACTLY THE NUMBER OF PARTS REQUIRED.

DO NOT ORDER BY SETS OR GROUPS.

To determine the Right Hand and Left Hand side of a compressor, stand at the motor end and look toward the compressor. Right Hand and Left Hand are indicated in parenthesis following the part name, i.e. (RH) & (LH), when appropriate.

**For Operating and Service Instructions see:**

**SERVICE MANUAL 13-10-606**

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**MAINTAIN COMPRESSOR RELIABILITY AND PERFORMANCE WITH  
GENUINE GARDNER DENVER® COMPRESSOR  
PARTS AND SUPPORT SERVICES**

Gardner Denver® Compressor genuine parts, engineered to original tolerances, are designed for optimum dependability — specifically for Gardner Denver compressor systems. Design and material innovations are the result of years of experience with hundreds of different compressor applications. Reliability in materials and quality assurance are incorporated in our genuine replacement parts.

Your authorized Gardner Denver® Compressor distributor offers all the backup you'll need. A worldwide network of authorized distributors provides the finest product support in the air compressor industry. Your local authorized distributor maintains a large inventory of genuine parts and he is backed up for emergency parts by direct access to the Gardner Denver Machinery Inc. Master Distribution Center (MDC) in Memphis, Tennessee.

Your authorized distributor can support your Gardner Denver® air compressor with these services:

1. Trained parts specialists to assist you in selecting the correct replacement parts.
2. Factory warranted new and remanufactured rotary screw air ends. Most popular model remanufactured air ends are maintained in stock at MDC for purchase on an exchange basis with liberal core credit available for the replacement unit.
3. A full line of factory tested AEON™ compressor lubricants specifically formulated for use in Gardner Denver compressors.
4. Repair and maintenance kits designed with the necessary parts to simplify servicing your compressor.

Authorized distributor service technicians are factory-trained and skilled in compressor maintenance and repair. They are ready to respond and assist you by providing fast, expert maintenance and repair services.

**For the location of your local authorized Gardner Denver Air Compressor distributor refer to the yellow pages of your phone directory or contact:**

Distribution Center:  
Gardner Denver Machinery Inc.  
Master Distribution Center  
5585 East Shelby Drive  
Memphis, TN 38141  
Phone: (901) 542-6100  
(800) 245-4946  
Fax: (901) 542-6159

Factory:  
Gardner Denver Machinery Inc.  
1800 Gardner Expressway  
Quincy, IL 62301  
Phone: (217) 222-5400  
Fax: (217) 224-7814

**REMANUFACTURED AIR ENDS**

Whenever an air end requires replacement or repair, Gardner Denver offers an industry unique, factory remanufactured air end exchange program. From its modern Remanufacturing Center in Indianapolis, IN, Gardner Denver is committed to supplying you with the highest quality, factory remanufactured air ends that are guaranteed to save you time, aggravation and money.

**Immediately Available**

Repair downtime costs you money, which is why there are over 200 remanufactured units in inventory at all times, ready for immediate delivery.

**Skilled Craftsmen**

Our Remanufacturing assembly technicians average over 20 years experience with air compression products.

**Precision Remanufacturing**

All potentially usable parts are thoroughly cleaned, inspected and analyzed. Only those parts that can be brought back to original factory specifications are remanufactured. Every remanufactured air end receives

a new overhaul kit: bearings, gears, seals, sleeves and gaskets.

**Extensive Testing**

Gardner Denver performs testing that repair houses just don't do. Magnaflux and ultrasonic inspection spot cracked or stressed castings, monochromatic light analysis exposes oil leaks, and coordinate measurement machine inspects to  $\pm .0001$ ", insuring that all remanufactured air ends meet factory performance specifications.

**Warranty**

Gardner Denver backs up every remanufactured air end with a new warranty . . . 18 months from purchase, 12 months from service.

Gardner Denver remanufactured air ends deliver *quality without question . . . year in and year out.*

Call Gardner Denver for information on the air end exchange program and the name of your authorized distributor.

Phone Number: 800-245-4946 or  
FAX: 901-542-6159

**ELECTRA-SAVER® COMPRESSORS – MODELS EAY\_\_F**  
**350 HP – 400 HP – 500 HP – Matrix/Menu**

NOTICE TO CUSTOMER – To find the construction options for your compressor unit, FILL IN THE BALANCE OF LETTERS OR NUMBERS FROM YOUR UNIT NAMEPLATE. COLUMN NUMBER:

| E | A | Y |   |   | F |   |   |   |    |    |    |    |  |
|---|---|---|---|---|---|---|---|---|----|----|----|----|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |  |

Follow the line down and over from each space thus filled in to find the appropriate construction option with which your machine is equipped. The number “9” in any column space indicates “NOT APPLICABLE.” The number “8” in any column space indicates SPECIAL DESIGN – REFER TO FACTORY ORDER TICKET.

COLUMNS 1, 2 & 3 – COMPRESSOR TYPE & SIZE

COLUMN 4 – TYPE OF CONSTRUCTION

- Q. Air-Cooled, Base Mounted
- S. Water-Cooled, Base Mounted

COLUMN 5 – HORSEPOWER

- S. 350 HP
- T. 400 HP
- V. 500 HP

COLUMN 6 – ENGINEERING SPECIFICATION

COLUMN 7 – OPERATING PRESSURE

- |                     |                     |
|---------------------|---------------------|
| D. 100 PSIG (60 HZ) | N. 100 PSIG (50 HZ) |
| F. 125 PSIG (60 HZ) | P. 125 PSIG (50 HZ) |
| H. 150 PSIG (60 HZ) | R. 150 PSIG (50 HZ) |

COLUMN 8 – CONTROL – *Letter varies with Voltage to Transformer*

COLUMN 9 – CONTROL ENCLOSURE & STARTER TYPE – *Letters vary with options*

- A thru D – Magnetic Starter (NEMA I)
- E thru H – Magnetic Starter (NEMA IV)
- I thru L – Manual Starter (NEMA I)
- M thru P – Manual Starter (NEMA IV)

COLUMN 10 – ENCLOSURE & AIR FILTER

- A – Standard Enclosure/Standard Air Filter

COLUMN 11 – COOLERS – *Letters vary with Material, Manufacturer & Aftercooler (if used)*

- A thru D – Air Cooled
- I thru O – Fresh Water Cooled
- U thru W – Salt Water Cooled

COLUMN 12 – COOLER ELECTRICAL – *Letters vary with Voltage*

- A thru H – Air Cooled NEMA I – 50/60 HZ
- J thru P – Air Cooled NEMA IV – 50/60 HZ
- Q & R – Less Fan Motor / Fan Motor Starter
- T thru X – Water Cooled – Fresh / Salt Water Service

COLUMN 13 – COMPRESSOR MOTOR DRIVE

**TOTAL PRODUCT SUPPORT – GARDNER DENVER’S  
CONTINUING COMMITMENT  
TO YOUR AIR COMPRESSOR PERFORMANCE**

Commitment to total product support continues long after the purchase of your quality Gardner Denver® rotary screw compressor.

Gardner Denver original parts incorporate years of experience and improvements in design, materials and quality assurance. Maintaining your compressor investment with Gardner Denver® parts will insure protection for the air compressor unit and long, dependable service life.

Your authorized Gardner Denver® compressor distributor maintains a complete stock of all common maintenance parts, factory approved AEON™ lubricants, and Gardner Denver® factory warranted exchange air ends. In addition, authorized distributor technicians are factory trained, and can provide complete diagnostic, compressor maintenance and repair services.

This manual is designed to assist you in maintaining high performance and receiving many years of dependable service you expect from your Gardner Denver compressor.

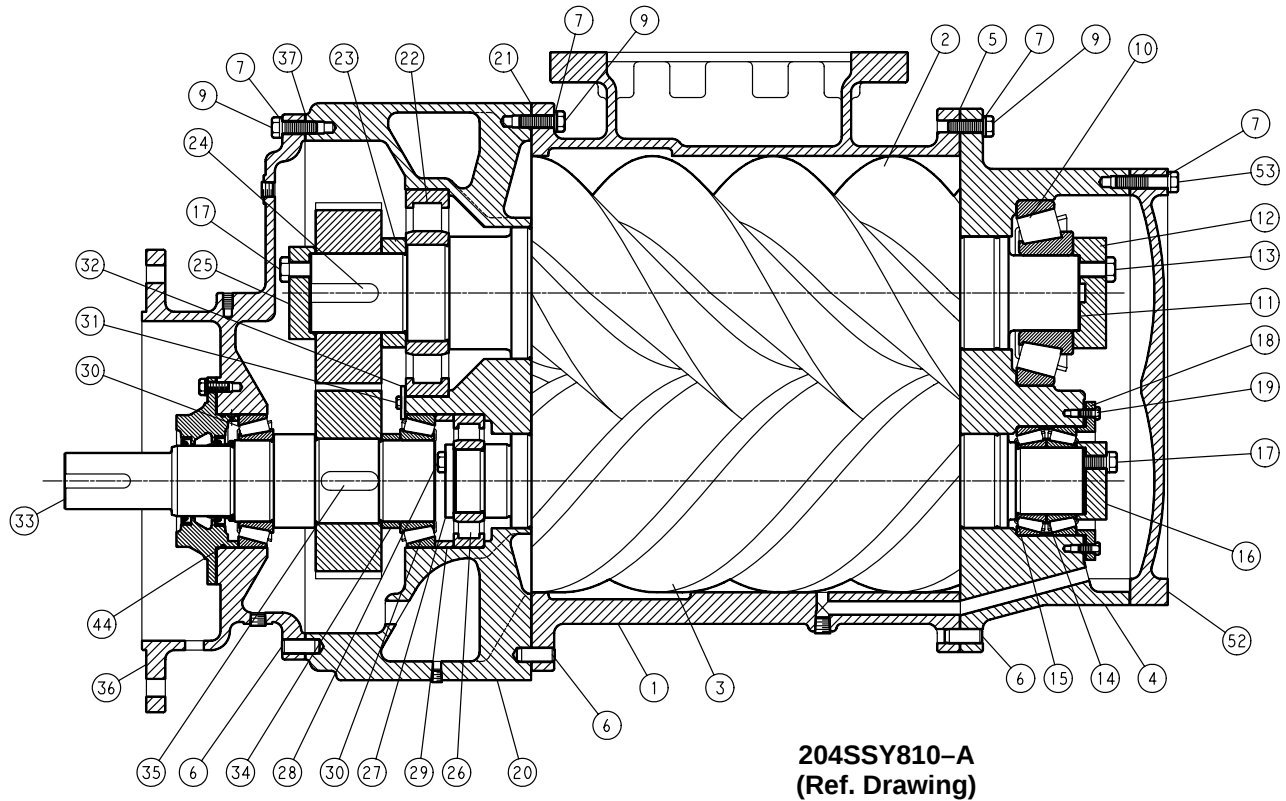
**AIR END SELECTIVE – 60 HZ**

| <b>HP</b> | <b>100#</b> | <b>125#</b> | <b>150#</b> |
|-----------|-------------|-------------|-------------|
| 350       | SSYAAD01    | SSYAAD04    | SSYAAD04    |
| 400       | SSYAAD02    | SSYAAD01    | SSYAAD04    |
| 500       | SSYAAD03    | SSYAAD06    | SSYAAD01    |

**AIR END SELECTIVE – 50 HZ**

| <b>HP</b> | <b>100#</b> | <b>125#</b> | <b>150#</b> |
|-----------|-------------|-------------|-------------|
| 350       | SSYAAD07    | SSYAAD01    | SSYAAD04    |
| 400       | SSYAAD08    | SSYAAD02    | SSYAAD01    |
| 500       | SSYAAD09    | SSYAAD03    | SSYAAD06    |

Refer to repair kit section, page 60, for ordering field replacement components.

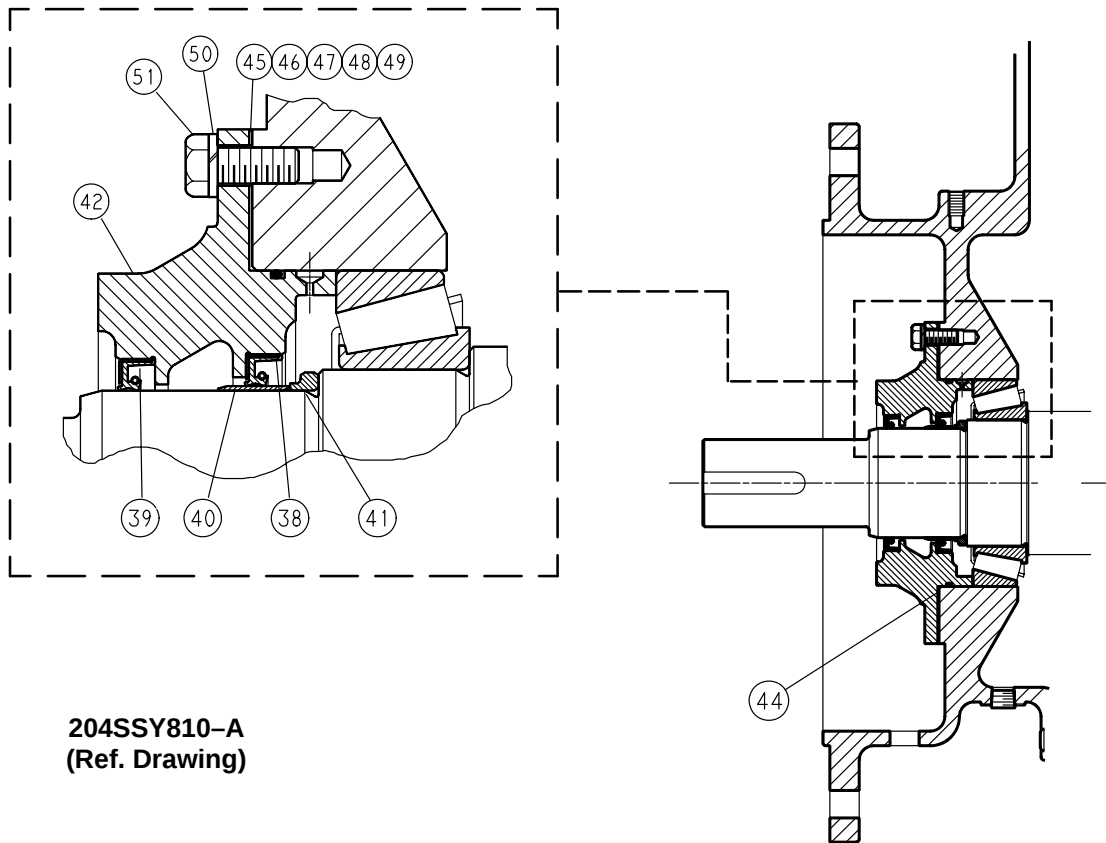


#### BARE COMPRESSOR

| Ref.<br>No. | Name of Part                | Qty. | Ref.<br>No. | Name of Part              | Qty. |
|-------------|-----------------------------|------|-------------|---------------------------|------|
| 1           | CYLINDER .....              | 1    | * 21        | GASKET .....              | 1    |
| 2           | ROTOR .....                 | 1    | * 22        | BEARING-ROLLER .....      | 1    |
| 3           | ROTOR .....                 | 1    | 23          | SPACER-SHAFT .....        | 1    |
| 4           | HOUSING-BEARING .....       | 1    | * 24        | KEY .....                 | 1    |
| * 5         | GASKET .....                | 1    | 25          | PLATE-BEARING RETAINER .. | 1    |
| 6           | PIN-DOWEL .....             | 6    | * 26        | BEARING .....             | 1    |
| 7           | LOCKWASHER .....            | 106  | 27          | PLATE-BEARING RETAINER .. | 1    |
| * 8         | GASKET-RING (Not Shown) ... | 5    | 28          | SCREW .....               | 3    |
| 9           | SCREW .....                 | 83   | 29          | SPACER .....              | 1    |
| * 10        | BEARING .....               | 1    | * 30        | BEARING-ROLLER .....      | 2    |
| 11          | SHIM .....                  | 1    | 31          | SCREW .....               | 2    |
| 12          | PLATE-BEARING RETAINER ..   | 1    | 32          | WASHER .....              | 2    |
| 13          | SCREW .....                 | 3    | 33          | SHAFT .....               | 1    |
| * 14        | BEARING .....               | 1    | 34          | SPACER-SHAFT .....        | 1    |
| * 15        | SHIM .....                  | 1    | * 35        | KEY .....                 | 1    |
| 16          | PLATE-BEARING RETAINER ..   | 1    | 36          | HOUSING-GEAR .....        | 1    |
| 17          | SCREW .....                 | 6    | * 37        | GASKET .....              | 1    |
| 18          | RETAINER .....              | 1    |             |                           |      |
| 19          | SCREW .....                 | 1    | 52          | COVER .....               | 1    |
| 20          | HOUSING-BEARING .....       | 1    | 53          | SCREW .....               | 23   |

\* Parts included in Periodic Overhaul Kit. Refer to page 60.

Order by Part Number and Description. Reference Numbers are for your convenience only.



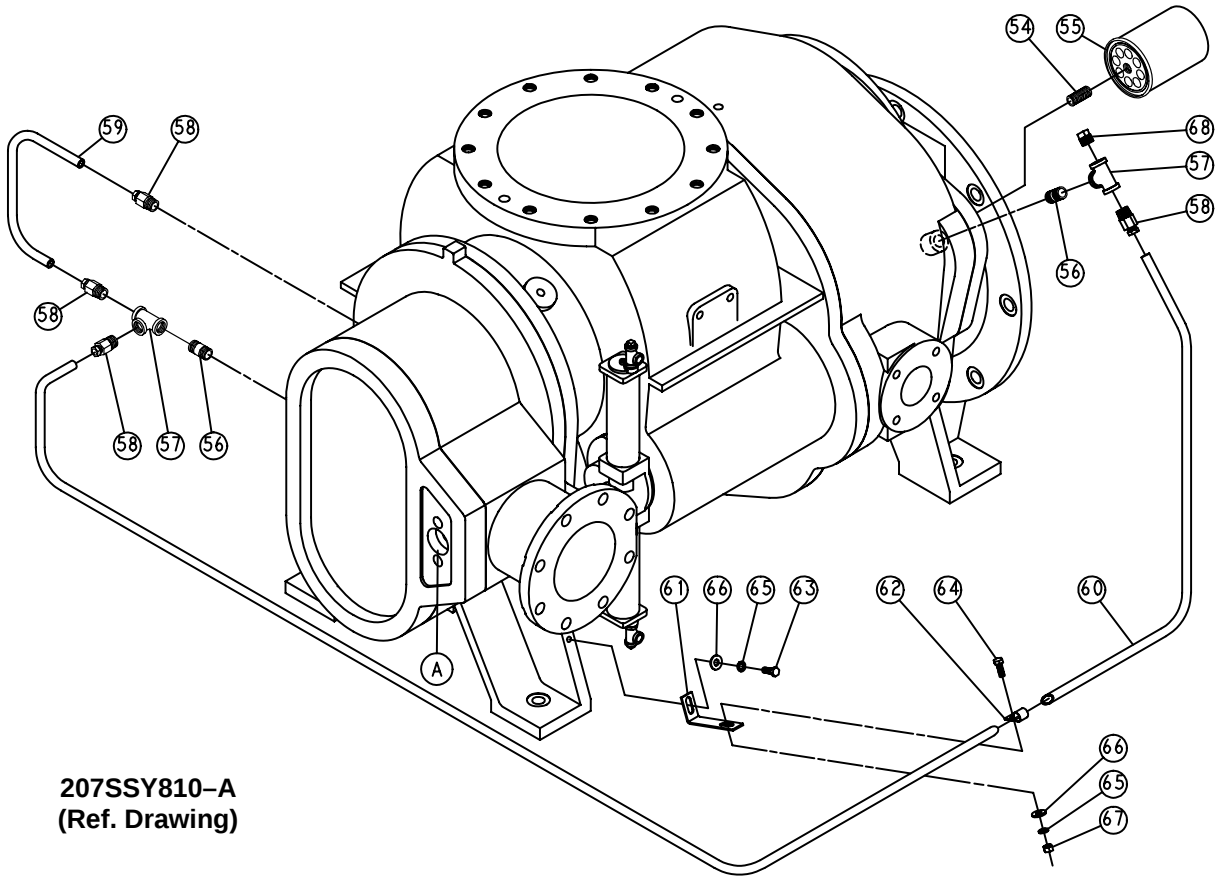
204SSY810-A  
(Ref. Drawing)

#### OIL SEAL DETAIL

| Ref.<br>No. | Name of Part       | Qty. | Part No.   |
|-------------|--------------------|------|------------|
| * 38        | SEAL-OIL .....     | 1    | 60DD695    |
| * 39        | SEAL-OIL .....     | 1    | 60DD694    |
| * 40        | SLEEVE-WEAR .....  | 1    | 200SSY1458 |
| 41          | SPACER-SHAFT ..... | 1    | 203SSY600  |
| 42          | HOUSING-SEAL ..... | 1    | 203SSY362  |
| 44          | O-RING .....       | 1    | 25BC109    |
| * 45        | SHIM .....         | 8    | 203SSY732  |
| * 46        | SHIM .....         | 16   | 204SSY732  |
| * 47        | SHIM .....         | 16   | 205SSY732  |
| * 48        | SHIM .....         | 8    | 207SSY732  |
| * 49        | SHIM .....         | 8    | 208SSY732  |
| 50          | LOCKWASHER .....   | 8    | 95B5       |
| 51          | SCREW .....        | 8    | 655EE050   |

\* Parts included in Periodic Overhaul Kit. Refer to page 60.  
Wear Sleeve Installation and Removal Kit # 200SSY4017 (Includes Wear Sleeve Puller and Installation Tool)

Order by Part Number and Description. Reference Numbers are for your convenience only.



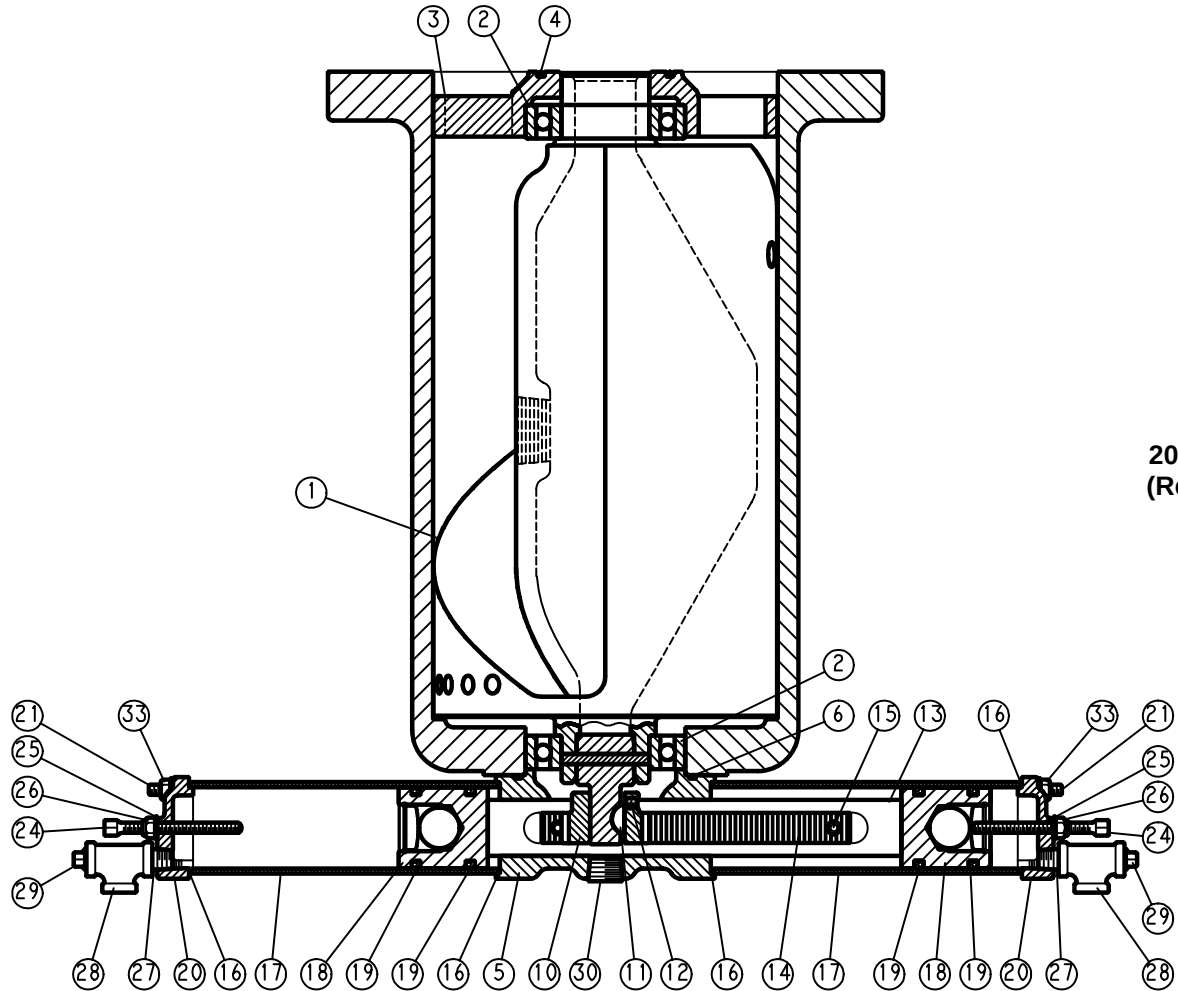
207SSY810-A  
(Ref. Drawing)

### COMPRESSOR TUBING GROUP

| Ref. No. | Name of Part           | Qty. | Part No.  |
|----------|------------------------|------|-----------|
| 54       | ADAPTOR-FILTER .....   | 1    | 200SSY070 |
| 55       | FILTER-OIL .....       | 1    | 26A43     |
| 56       | NIPPLE .....           | 2    | 63U8X14G  |
| 57       | TEE-PIPE .....         | 2    | 64G6G     |
| 58       | CONNECTOR-TUBE .....   | 4    | 86E20     |
| 59       | TUBE .....             | 1    | 201SSY857 |
| 60       | TUBE .....             | 1    | 202SSY857 |
| 61       | BRACKET (FORMED) ..... | 1    | 201SSY142 |
| 62       | CLAMP .....            | 1    | 98H13     |
| 63       | SCREW .....            | 1    | 655ED030  |
| 64       | SCREW .....            | 1    | 655ED040  |
| 65       | LOCKWASHER .....       | 2    | 95B3      |
| 66       | WASHER .....           | 2    | 95A3      |
| 67       | NUT .....              | 1    | 50B3      |
| 68       | PLUG .....             | 1    | 64AC4     |
| *        | NUT .....              | 1    | 50G8      |

\* Not shown.

TURN VALVE ACTUATOR AND MOUNTING GROUP



205SSY810-A  
(Ref. Drawing)

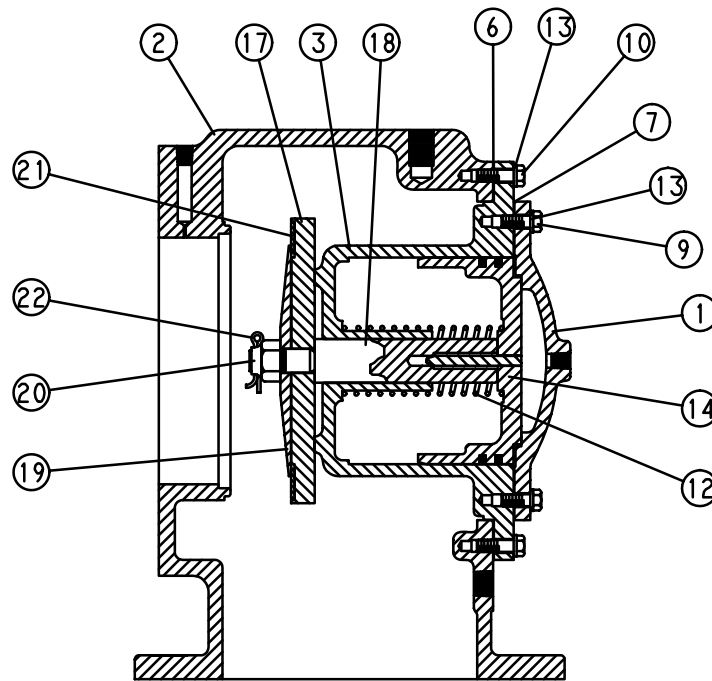
Order by part number and description. Reference numbers are for your convenience only.

# TURN VALVE ACTUATOR AND MOUNTING GROUP

| Ref.<br>No. | Name of Part                   | Qty. | Part No.   | Ref.<br>No. | Name of Part          | Qty. | Part No.  |
|-------------|--------------------------------|------|------------|-------------|-----------------------|------|-----------|
| 1           | VALVE .....                    | 1    | 202SSY238A | *           | PLUG .....            | 1    | 66D15     |
| 2           | BEARING .....                  | 2    | 12J43      | *           | RETAINING RING .....  | 1    | 74D49     |
| 3           | HOUSING-BEARING .....          | 1    | 210SSY006  | 19          | PACKING-RING .....    | 4    | 60AM46    |
| 4           | O-RING .....                   | 1    | 54C210     | 20          | HEAD-CONTROL CYLINDER | 2    | 200RPA083 |
| 5           | HOUSING-ACTUATOR .....         | 1    | 200SSY180  | 21          | STUD .....            | 8    | 79AL5     |
| 6           | O-RING .....                   | 1    | 25BC114    | 24          | SETSCREW .....        | 2    | 76D226    |
| 10          | GEAR-AUXILIARY .....           | 1    | 200SSU031  | 25          | SEAL-FASTENER .....   | 2    | 60DD65    |
| 11          | KEY-WOODRUFF .....             | 1    | 35D2       | 26          | NUT .....             | 2    | 50AW24    |
| 12          | SETSCREW .....                 | 1    | 76G21N     | 27          | NIPPLE .....          | 2    | 63D1G     |
| 13          | SHAFT-CONTROL .....            | 1    | 200SSU081  | 28          | TEE-PIPE .....        | 2    | 64G3G     |
| 14          | RACK .....                     | 1    | 200SSU360  | 29          | PLUG .....            | 2    | 64AA5     |
| 15          | SCREW .....                    | 2    | 75P11N     | 30          | PLUG .....            | 6    | 64AC4     |
| 16          | GASKET .....                   | 4    | 25BC138N   | 33          | NUT .....             | 8    | 50AW24    |
| 17          | CYLINDER-CONTROL .....         | 2    | 200SSU082  | *           | SCREW .....           | 2    | 655ED040  |
| 18          | CONTROL PISTON                 |      |            | *           | SCREW .....           | 1    | 655ED110  |
|             | ASSEMBLY, Incl. next 4 items . | 2    | SSU80565   | *           | LOCKWASHER .....      | 3    | 95B3      |
| *           | CONTROL PISTON .....           | 1    | 201SSU084  | *           | PLUG .....            | 2    | 64AC3     |
| *           | BUMPER .....                   | 1    | 32E15      | *           | PLUG .....            | 9    | 64AC2     |

\* Not shown.

Order by Part Number and Description. Reference Numbers are for your convenience only.



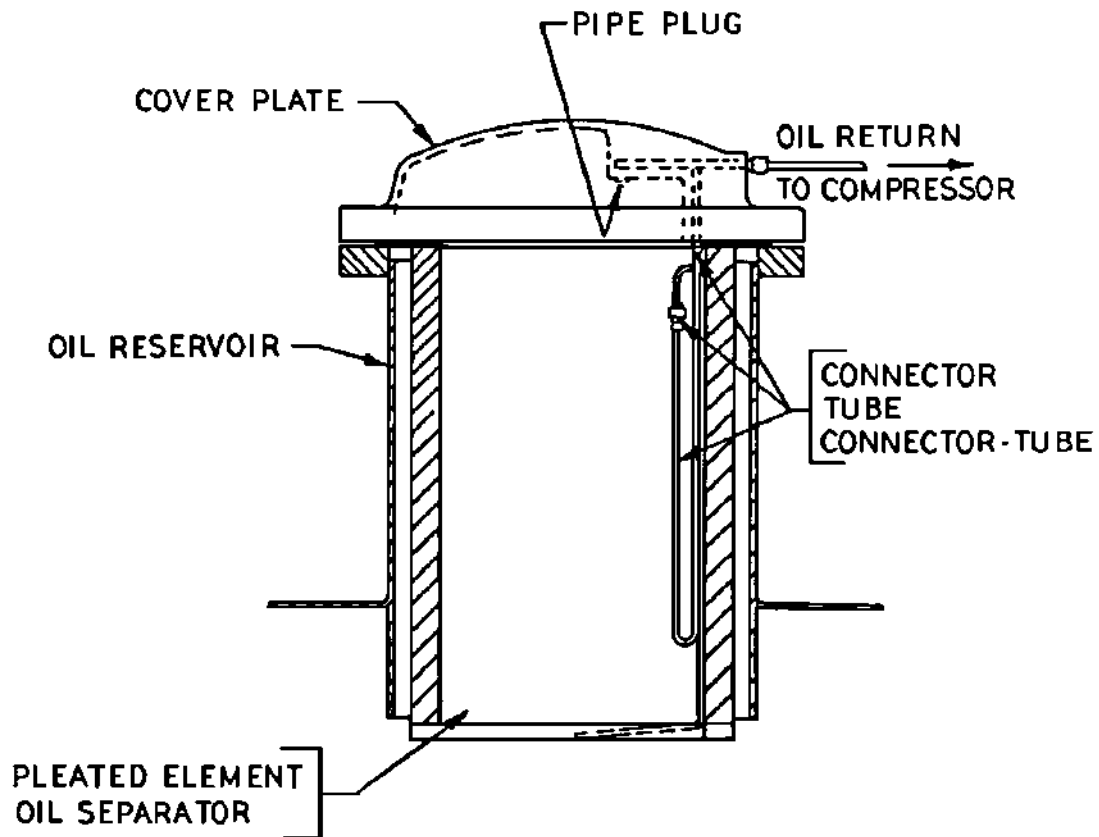
310EAY810  
(Ref. Drawing)

# INLET VALVE

| Ref.<br>No. | Name of Part               | Qty. | Part No.   |
|-------------|----------------------------|------|------------|
| 1           | CAP-CYLINDER .....         | 1    | S115274    |
| 2           | HOUSING-INLET .....        | 1    | S11541     |
| 3           | CYLINDER-INLET VALVE ..... | 1    | S11542     |
| 6           | GASKET .....               | 1    | 203SSU715N |
| 7           | GASKET .....               | 1    | 25C2683N   |
| 9           | SCREW .....                | 6    | 655ED040   |
| 10          | SCREW .....                | 8    | 655ED050   |
| 12          | SPRING COMPRESSION .....   | 1    | 78A366     |
| 13          | LOCKWASHER .....           | 14   | 95B3       |
| 14          | INLET VALVE PISTON .....   | 1    | S11543D    |
| 17          | VALVE-INLET .....          | 1    | 200SSW044  |
| 18          | GUIDE-VALVE .....          | 1    | 200SSW483  |
| 19          | CLAMP-DISC .....           | 1    | 200SSW338  |
| 20          | NUT-HEX CASTLE .....       | 1    | 50E9       |
| 21          | DISC-VALVE .....           | 1    | 200SSW067  |
| 22          | PIN-COTTER .....           | 1    | 62E30      |
| *           | PIN-SPRING ROLL .....      | 1    | 62R101     |

\* Not shown.

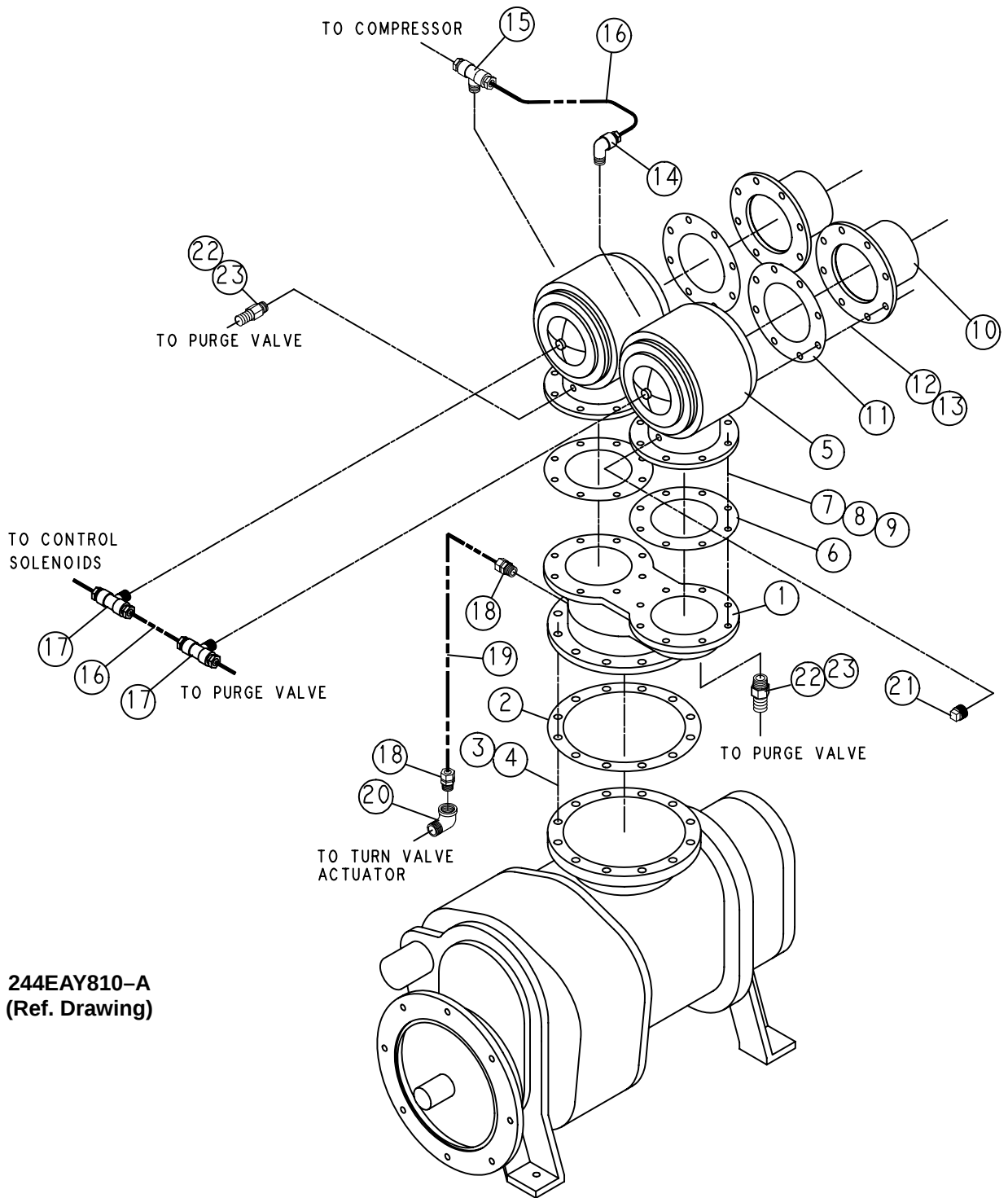
EAY80129 REPAIR KIT WITH SEPARATOR 55B30



NOTE: Repair Kit EAY80129 includes Separator, Discharge Flange Gasket and Internal Tubing as shown in illustration above. (See page 59.)

- \* Gaskets are bonded to separators but may be purchased separately for repair. See page 59.

# DUAL INLET HOUSING

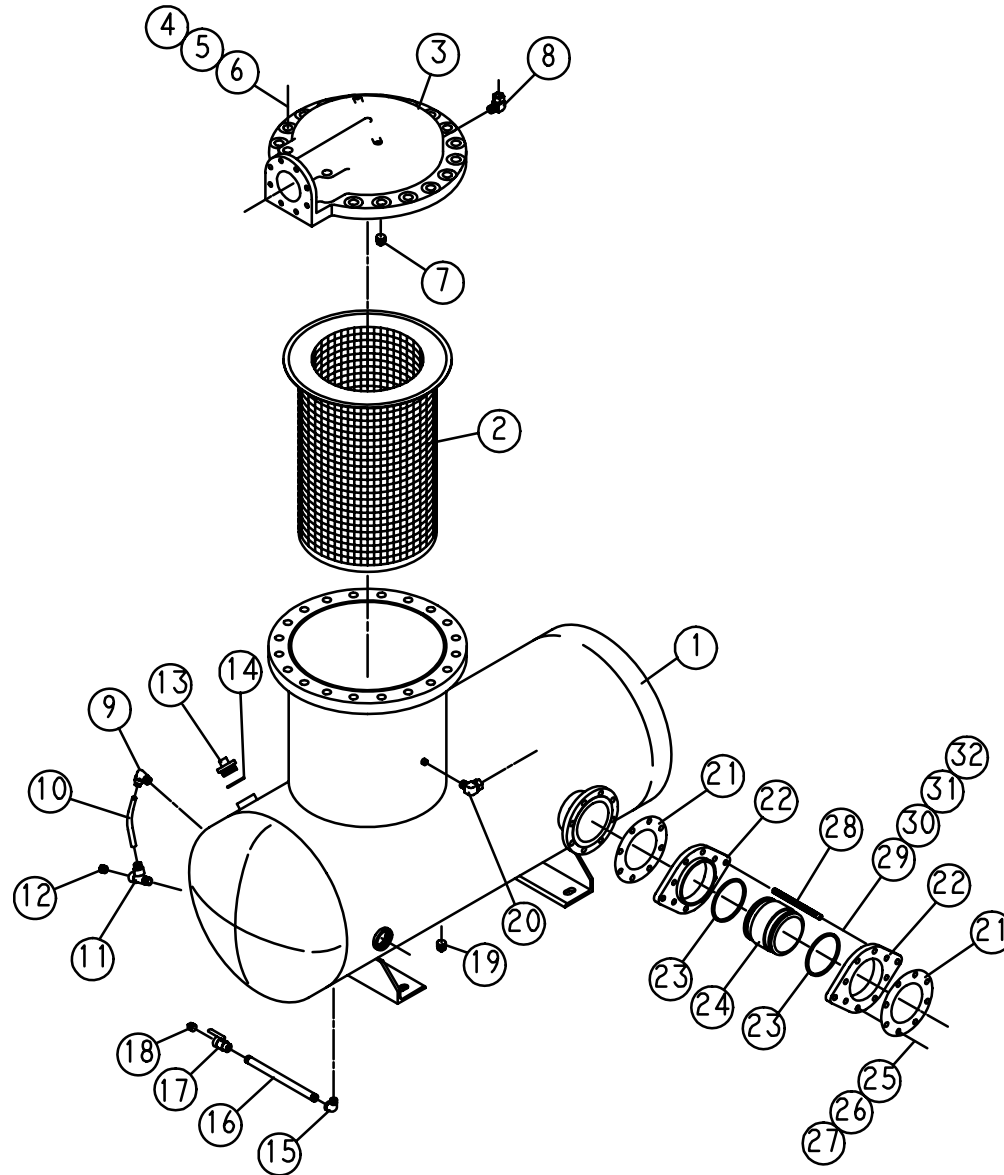


Order by Part Number and Description. Reference Numbers are for your convenience only.

# DUAL INLET HOUSING

| Ref.<br>No. | Name of Part                 | Qty.  | Part No.  |
|-------------|------------------------------|-------|-----------|
| 1           | MANIFOLD-INLET .....         | 1     | 200SSY690 |
| 2           | GASKET RING .....            | 1     | 25C1996   |
| 3           | SCREW .....                  | 12    | 655ED050  |
| 4           | LOCKWASHER .....             | 12    | 95B9      |
| 5           | INLET HOUSING ASSEMBLY ..... | 2     | S11541D   |
| 6           | GASKET RING .....            | 2     | 25C730    |
| 7           | SCREW .....                  | 16    | 655EG070  |
| 8           | LOCKWASHER .....             | 16    | 95B8      |
| 9           | GASKET-RING .....            | 4     | 25F28     |
| 10          | MANIFOLD-INLET .....         | 2     | 200ESV690 |
| 11          | GASKET RING .....            | 2     | 25C730    |
| 12          | SCREW .....                  | 16    | 655EG060  |
| 13          | LOCKWASHER .....             | 16    | 95B8      |
| 14          | ELBOW-TUBE .....             | 1     | 86E64     |
| 15          | TEE-TUBE .....               | 1     | 86E122    |
| 16          | TUBE .....                   | 3     | 85G5      |
| 17          | TEE-TUBE .....               | 2     | 86E122    |
| 18          | CONNECTOR-TUBE .....         | 2     | 86N155    |
| 19          | TUBE .....                   | 4 Ft. | 85E10C    |
| 20          | ELBOW .....                  | 1     | 64D5G     |
| 21          | PLUG .....                   | 1     | 64AA7     |
| 22          | NIPPLE-HOSE .....            | 2     | 29C26     |
| 23          | CLAMP-HOSE .....             | 2     | 29B35     |

# OIL RESERVOIR



**235EAY810**  
(Ref. Drawing)

Order by part number and description. Reference numbers are for your convenience only.

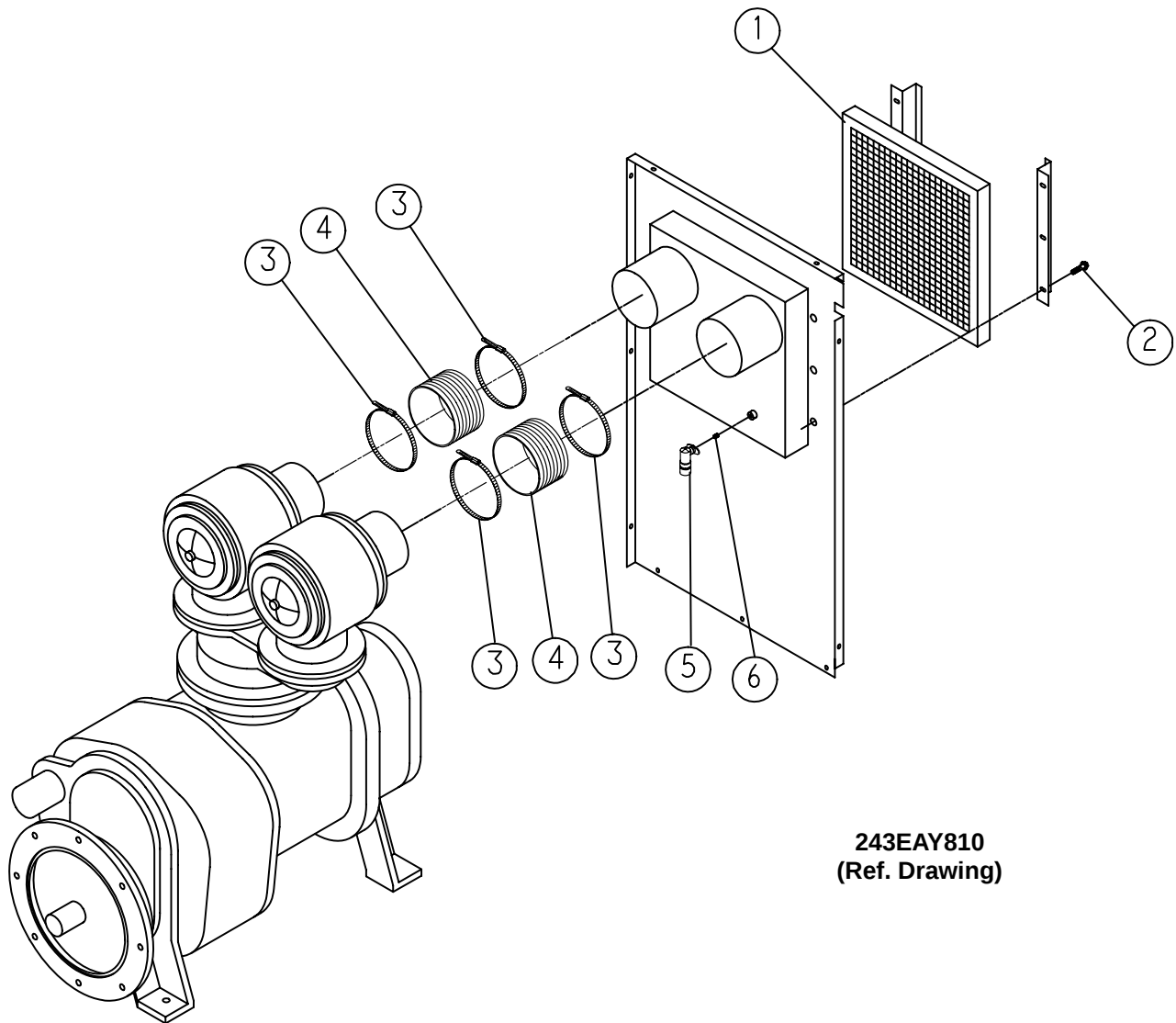
# OIL RESERVOIR

| Ref.<br>No. | Name of Part        | Qty. | Part No.  | Ref.<br>No. | Name of Part             | Qty. | Part No.  |
|-------------|---------------------|------|-----------|-------------|--------------------------|------|-----------|
| 1           | RESERVOIR-OIL ..... | 1    | 200ESV037 | 19          | PLUG .....               | 1    | 64AA3     |
| 2           | SEPARATOR-OIL ..... | 1    | 55B30 **  | 20          | ELBOW-TUBE .....         | 1    | 86E60     |
| 3           | FLANGE .....        | 1    | 200ESV073 | 21          | GASKET RING .....        | 2    | 25C2720N  |
| 4           | SCREW .....         | 2    | 655EJ340  | 22          | FLANGE .....             | 2    | 201ESV073 |
| 5           | SCREW .....         | 17   | 655EJ160  | 23          | O-RING .....             | 2    | 25BC115   |
| 6           | LOCKWASHER .....    | 19   | 95B12     | 24          | COUPLING .....           | 1    | 200ESV064 |
| 7           | PLUG .....          | 1    | 64AA6     | 25          | SCREW .....              | 16   | 655EG120  |
| 8           | ELBOW-TUBE .....    | 1    | 86E64     | 26          | LOCKWASHER .....         | 16   | 95B8      |
| 9           | ELBOW-TUBE .....    | 1    | 86E60     | 27          | NUT .....                | 16   | 50B8      |
| 10          | TUBE .....          | 1    | 85G3      | 28          | STUD .....               | 2    | 200ESV110 |
| 11          | TEE-PIPE .....      | 1    | 2009284   | 29          | ISOLATOR-VIBRATION ..... | 4    | 200ESV365 |
| 12          | PLUG .....          | 1    | 86N142    | 30          | WASHER .....             | 4    | 95A8      |
| 13          | COVER-FILLER .....  | 1    | 200SPF156 | 31          | NUT .....                | 4    | 50AW9     |
| 14          | O-RING .....        | 1    | 54C214    | 32          | NUT .....                | 4    | 50B3      |
| 15          | ELBOW .....         | 1    | 64D6G     |             |                          |      |           |
| 16          | NIPPLE .....        | 1    | 63G42G    | *           | UNION-TUBE .....         | 1    | 86E48     |
| 17          | VALVE-BALL .....    | 1    | 90AR361   | *           | TUBE .....               | 3    | 85K3      |
| 18          | PLUG .....          | 1    | 64AA3     | *           | CONNECTOR-TUBE .....     | 1    | 86E3      |

\* Not shown.

\*\* For Repair Kit see page 11.

Order by Part Number and Description. Reference Numbers are for your convenience only.

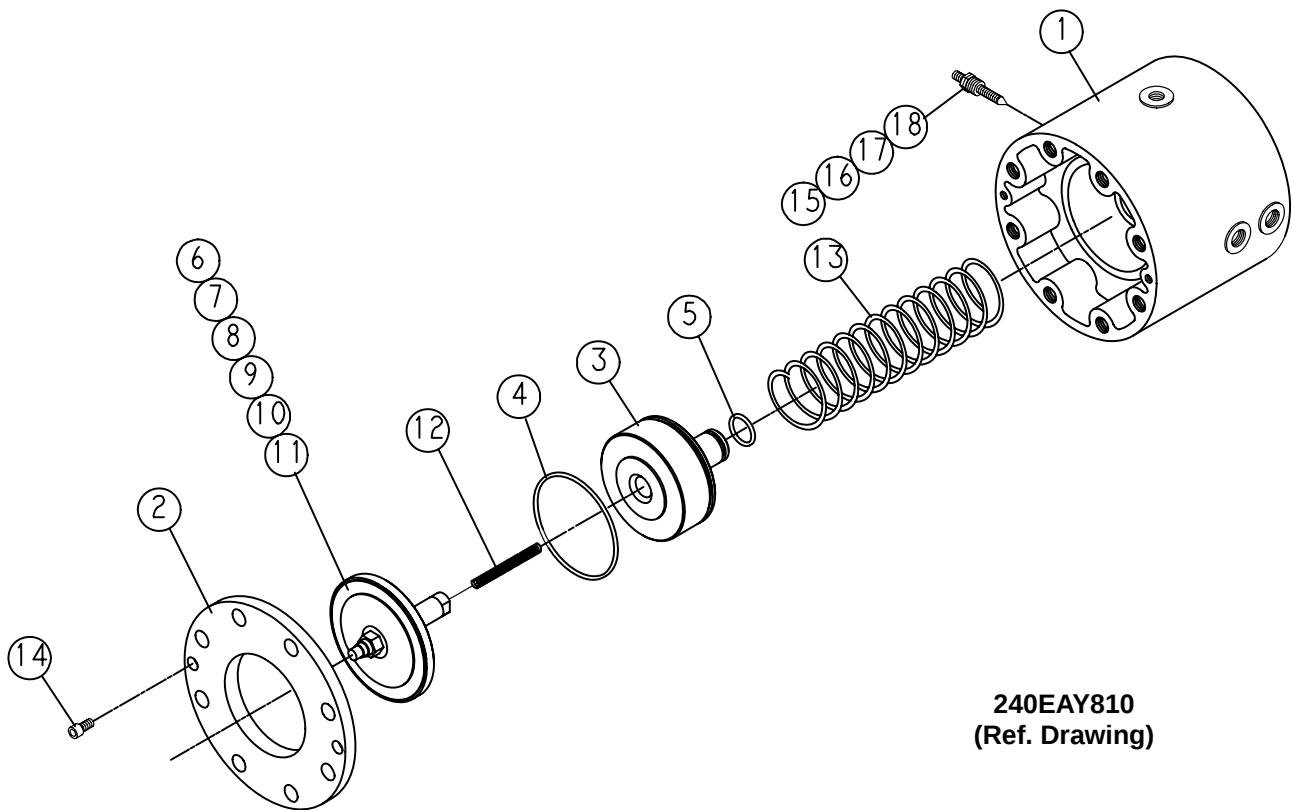


243EAY810  
(Ref. Drawing)

### AIR FILTER

| Ref.<br>No. | Name of Part           | Qty. | Part No. |
|-------------|------------------------|------|----------|
| 1           | FILTER-AIR .....       | 1    | 2009590  |
| 2           | SCREW-FLANGED .....    | 6    | 75LM150  |
| 3           | CLAMP-HOSE .....       | 4    | 29Z16    |
| 4           | HOSE-COOLANT .....     | 2    | 29Z180   |
| 5           | INDICATOR-FILTER ..... | 1    | 5L28     |
| 6           | NIPPLE .....           | 1    | 63C1G    |

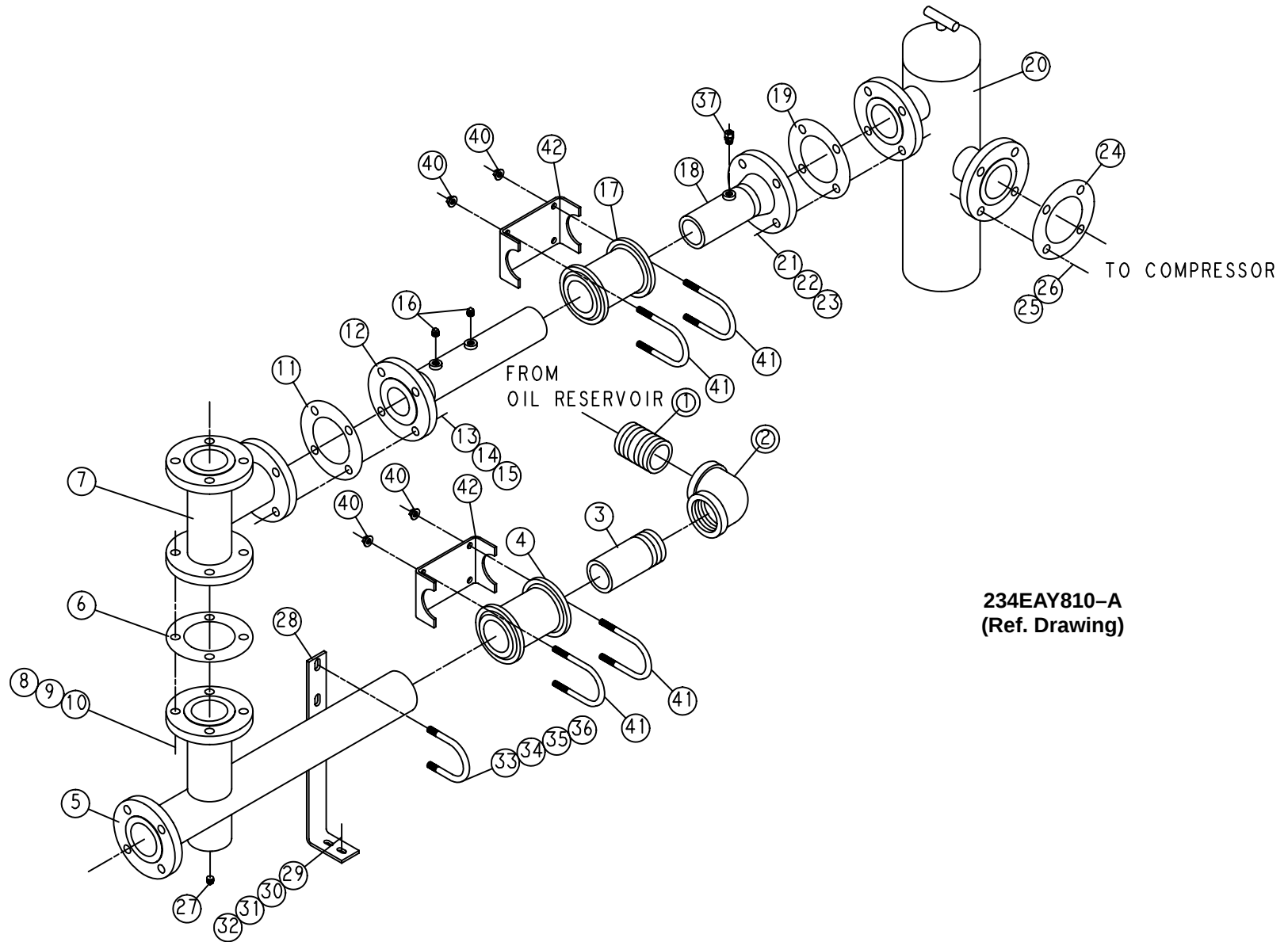
Order by Part Number and Description. Reference Numbers are for your convenience only.



### MINIMUM PRESSURE VALVE

| Ref. No. | Name of Part                 | Qty. | Part No.  |
|----------|------------------------------|------|-----------|
| 1        | HOUSING-VALVE .....          | 1    | 200ESV182 |
| 2        | SEAT .....                   | 1    | 200ESV256 |
| 3        | VALVE-MINIMUM PRESSURE ..... | 1    | 201ESV527 |
| 4        | O-RING .....                 | 1    | 25BC150   |
| 5        | O-RING .....                 | 1    | 25BC118   |
| 6        | VALVE-INLET .....            | 1    | 200SSK044 |
| 7        | CLAMP-DISC .....             | 1    | 200SSK338 |
| 8        | GUIDE VALVE .....            | 1    | 200SSK483 |
| 9        | DISC-VALVE .....             | 1    | 200SSY067 |
| 10       | NUT-HEX CASTLE .....         | 1    | 50E7      |
| 11       | PIN-COTTER .....             | 1    | 62E30     |
| 12       | SPRING .....                 | 1    | 78A365    |
| 13       | SPRING .....                 | 1    | 78W9      |
| 14       | SCREW .....                  | 2    | 75P6      |
| 15       | ADAPTOR .....                | 1    | 200ESM170 |
| 16       | SCREW-ADJUSTING .....        | 1    | 200ESV176 |
| 17       | GASKET-RING .....            | 1    | 25F39     |
| 18       | LOCKNUT .....                | 1    | 50AW17    |

# OIL FILTER PIPING



234EAY810-A  
(Ref. Drawing)

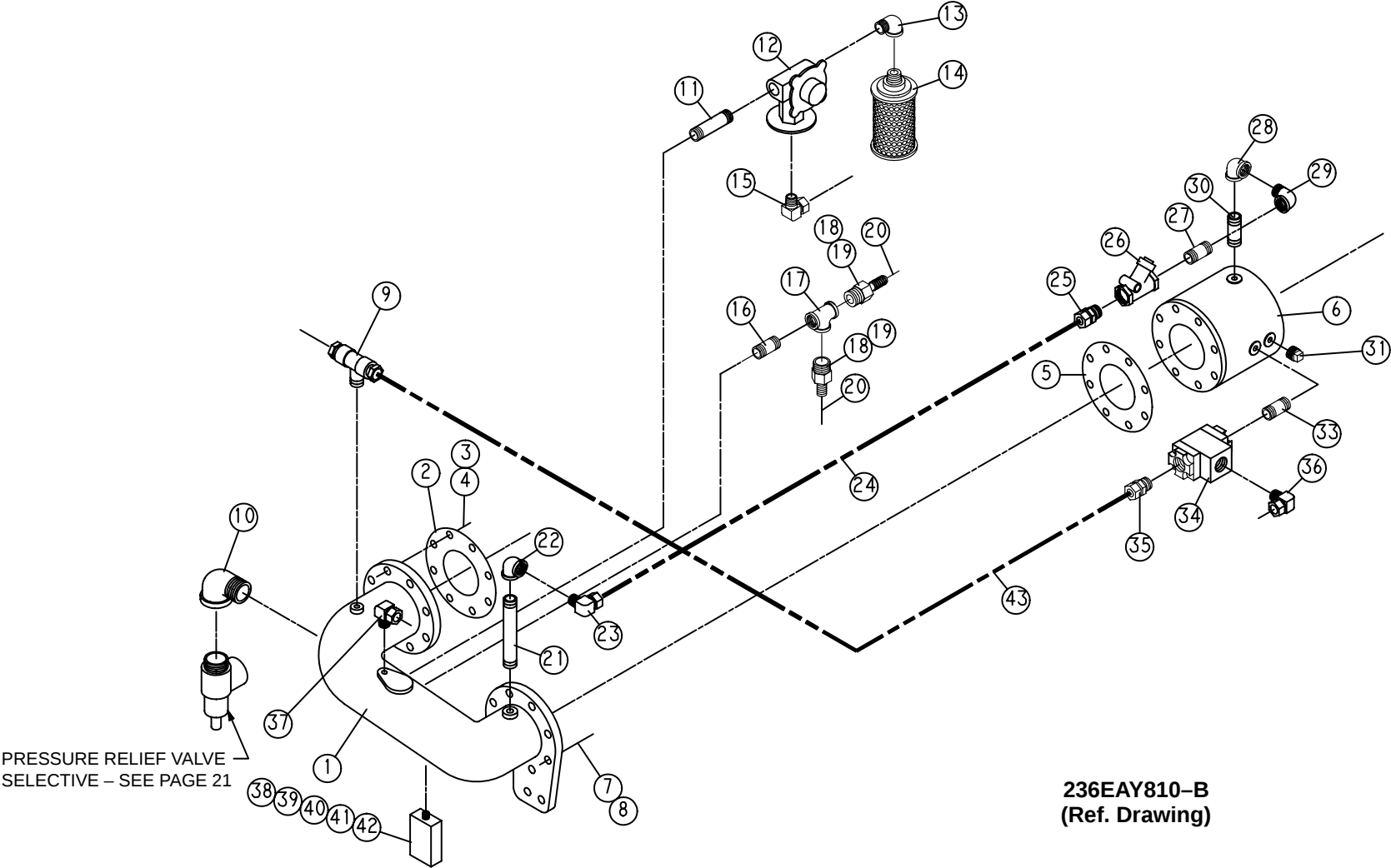
Order by part number and description. Reference numbers are for your convenience only.

# OIL FILTER PIPING

| Ref.<br>No. | Name of Part            | Qty. | Part No.   | Ref.<br>No. | Name of Part        | Qty. | Part No.  |
|-------------|-------------------------|------|------------|-------------|---------------------|------|-----------|
| 1           | NIPPLE .....            | 1    | 63M3G      | 19          | GASKET .....        | 1    | 25C2722N  |
| 2           | ELBOW .....             | 1    | 64C14G     | 20          | FILTER-OIL .....    | 1    | 200ESV369 |
| 3           | NIPPLE .....            | 1    | 63AJ40X50G | 21          | SCREW .....         | 4    | 655EF120  |
| 4 *         | COUPLING-FLEXIBLE ..... | 1    | 64EB802    | 22          | LOCKWASHER .....    | 4    | 95B7      |
| 5           | MANIFOLD-OIL .....      | 1    | 200EAY116  | 23          | NUT .....           | 4    | 50B7      |
| 6           | GASKET .....            | 1    | 25C2722N   | 24          | GASKET .....        | 1    | 25C2722N  |
| 7           | VALVE-THERM .....       | 1    | 90AR969    | 25          | SCREW .....         | 4    | 655EF080  |
| 8           | SCREW .....             | 4    | 655EF100   | 26          | LOCKWASHER .....    | 4    | 95B7      |
| 9           | LOCKWASHER .....        | 4    | 95B7       | 27          | PLUG .....          | 1    | 64AA7     |
| 10          | NUT .....               | 4    | 50B7       | 28          | BRACKET-PIPE .....  | 1    | 200EAY108 |
| 11          | GASKET .....            | 1    | 25C2722N   |             |                     |      |           |
| 12          | MANIFOLD .....          | 1    | 201EAY116  | 33          | U-BOLT .....        | 3    | 15U88     |
| 13          | SCREW .....             | 4    | 655EF120   | 37          | ELBOW-TUBE .....    | 1    | 86E60     |
| 14          | LOCKWASHER .....        | 4    | 95B7       | 38          | NUT-FLANGED .....   | 6    | 50AW35    |
| 15          | NUT .....               | 4    | 50B7       | 39          | SCREW-FLANGED ..... | 2    | 75K48     |
| 16          | PLUG .....              | 2    | 64AA5      | 40          | NUT-FLANGED .....   | 8    | 50AW5     |
| 17 *        | COUPLING-FLEXIBLE ..... | 1    | 64EB802    | 41          | U-BOLT .....        | 4    | 15U57     |
| 18          | MANIFOLD OIL .....      | 1    | 203EAY116  | 42          | BRACKET-PIPE .....  | 2    | 300EAY108 |

\* For Repair – Reference Numbers 4 & 17: (2) Each 2117160 Gaskets are required.

AIR DISCHARGE MANIFOLD



236EAY810-B  
(Ref. Drawing)

Order by part number and description. Reference numbers are for your convenience only.

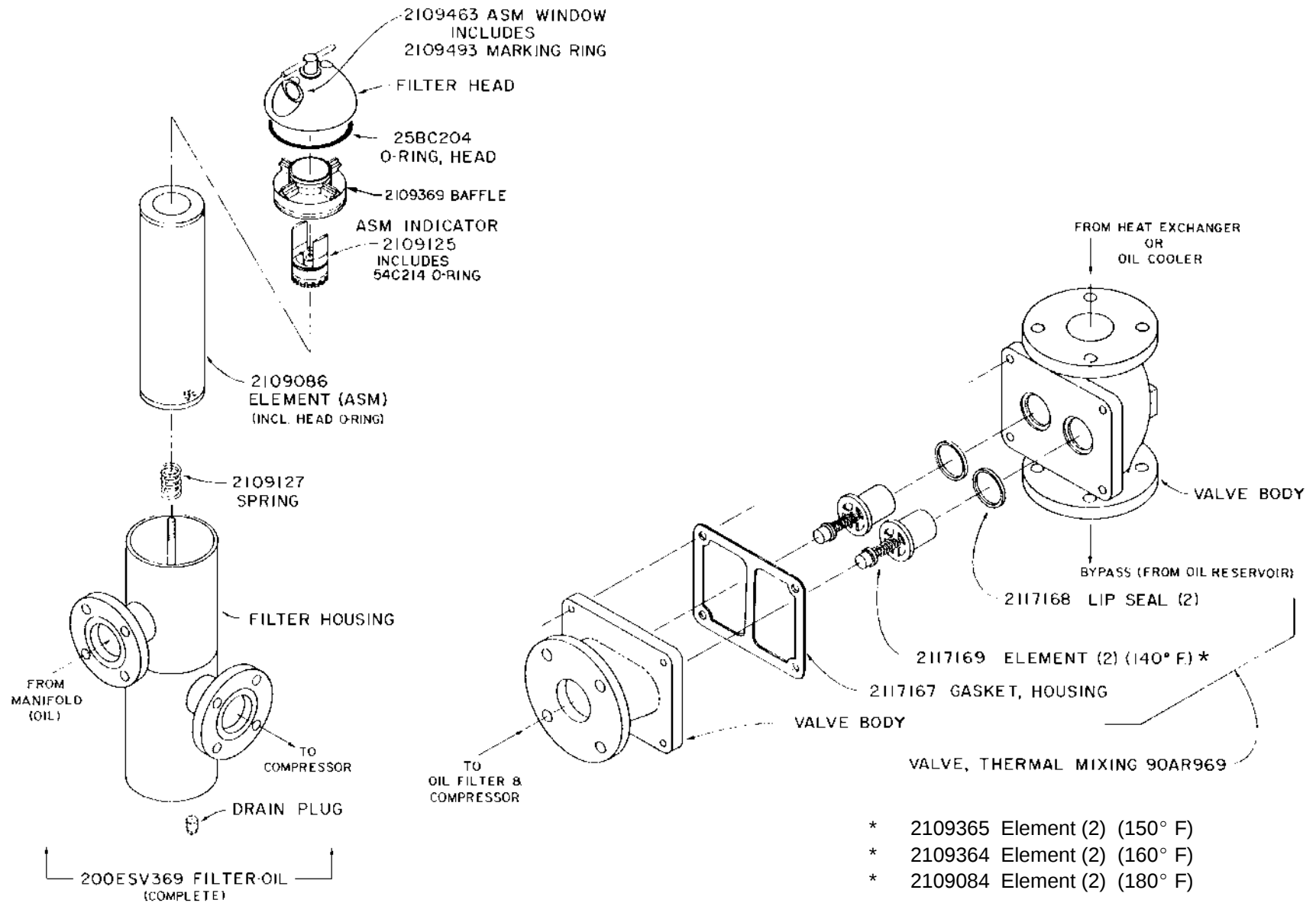
#### AIR DISCHARGE MANIFOLD

| Ref.<br>No. | Name of Part                                       | Qty.   | Part No.   | Ref.<br>No. | Name of Part                 | Qty.  | Part No. |
|-------------|----------------------------------------------------|--------|------------|-------------|------------------------------|-------|----------|
| 1           | MANIFOLD-DISCHARGE . . . .                         | 1      | 200ESV071  | 22          | ELBOW-PIPE . . . . .         | 1     | 64S2G    |
| 2           | GASKET . . . . .                                   | 1      | 25C2719N   | 23          | ELBOW-TUBE . . . . .         | 1     | 86E70    |
| 3           | SCREW . . . . .                                    | 8      | 655EG080   | 24          | TUBE . . . . .               | 2     | 85M8     |
| 4           | LOCKWASHER . . . . .                               | 8      | 95B8       | 25          | CONNECTOR-TUBE . . . . .     | 1     | 86E18    |
| 5           | GASKET . . . . .                                   | 1      | 25C2719N   | 26          | VALVE-CHECK (LIFT) . . . . . | 1     | 90J121   |
| 6           | MINIMUM PRESSURE VALVE<br>ASSEMBLY (See page 17) . | 1      | 200ESV527A | 27          | NIPPLE-PIPE . . . . .        | 1     | 63F21G   |
| 7           | SCREW . . . . .                                    | 8      | 655EG110   | 28          | ELBOW-PIPE ST . . . . .      | 1     | 64D5G    |
| 8           | LOCKWASHER . . . . .                               | 8      | 95B8       | 29          | ELBOW-PIPE . . . . .         | 1     | 64S2G    |
| 9           | TEE-TUBE . . . . .                                 | 1      | 86E122     | 30          | NIPPLE-PIPE . . . . .        | 1     | 63E1G    |
| 10          | ELBOW-PIPE ST . . . . .                            | 1      | 64D9G      | 31          | PLUG-SQHD PIPE . . . . .     | 1     | 64AA7    |
| 11          | NIPPLE-PIPE GALVANIZED .                           | 1      | 63H2G      | 33          | NIPPLE-PIPE . . . . .        | 1     | 63E1G    |
| 12          | VALVE-AIR CONTROL . . . . .                        | 1      | 90AR114    | 34          | VALVE-CONTROL . . . . .      | 1     | 90AR125  |
| 13          | ELBOW . . . . .                                    | 1      | 64D10G     | 35          | CONNECTOR-TUBE . . . . .     | 1     | 86E10    |
| 14          | MUFFLER . . . . .                                  | 1      | 43E2       | 36          | ELBOW-TUBE . . . . .         | 1     | 86E65    |
| 15          | ELBOW-TUBE . . . . .                               | 1      | 86E59      | 37          | ELBOW-TUBE . . . . .         | 1     | 86E60    |
| 16          | NIPPLE-PIPE GALVANIZED .                           | 1      | 63H2G      | 38          | KIT-CONVERSION . . . . .     | 1     | EAQ82000 |
| 17          | TEE-PIPE . . . . .                                 | 1      | 64G6G      | 39          | COVER . . . . .              | 1     | 24CA795  |
| 18          | NIPPLE-HOSE . . . . .                              | 2      | 29C26      | 40          | ENCLOSURE . . . . .          | 1     | 24CA794  |
| 19          | CLAMP-HOSE . . . . .                               | 2      | 29B35      | 41          | O-RING . . . . .             | 1     | 24A383   |
| 20          | HOSE-OIL . . . . .                                 | 22 Ft. | R14E       | 42          | BUSHING-PIPE . . . . .       | 1     | 64E20    |
| 21          | NIPPLE . . . . .                                   | 1      | 63E10G     | 43          | TUBE . . . . .               | 3 Ft. | 85G5     |

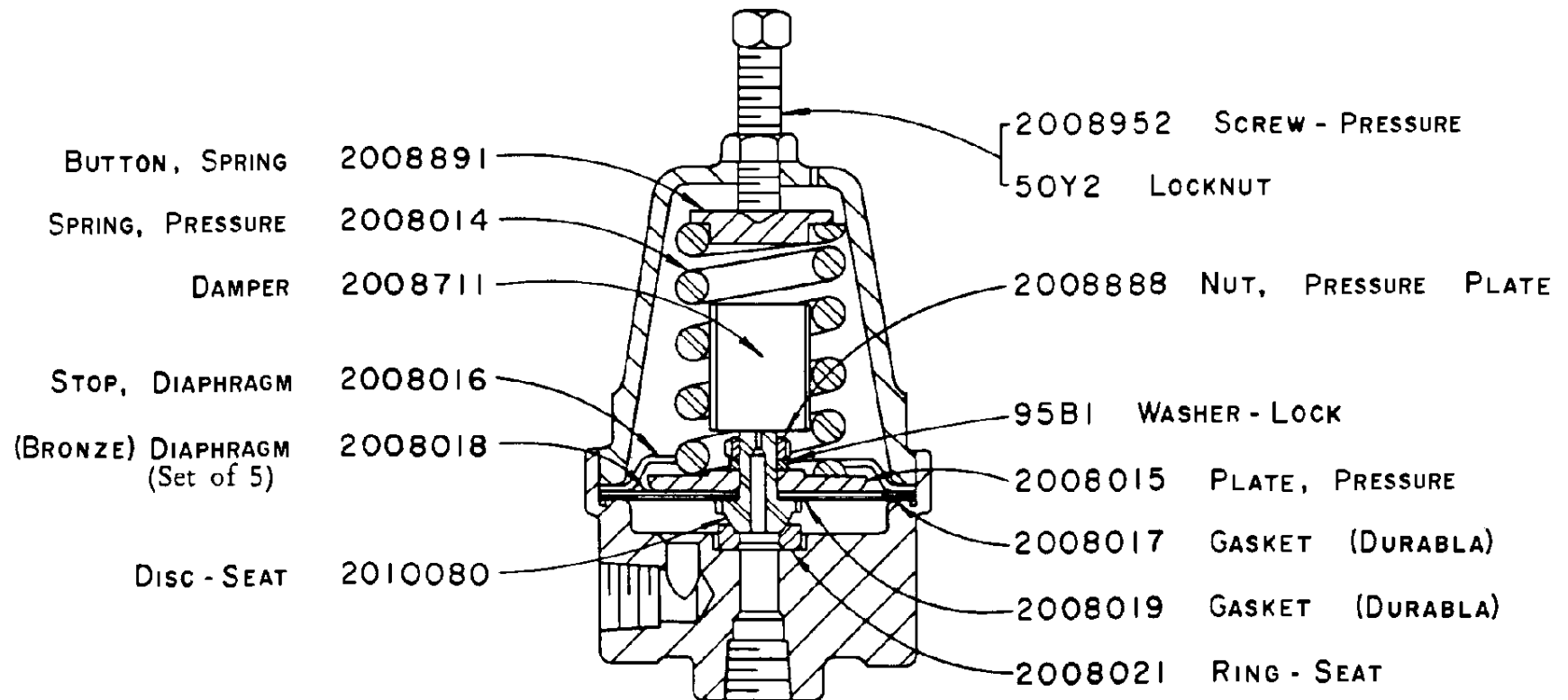
#### RELIEF VALVE SELECTIVE

| Name of Part                        | 350, 400 & 500 HP |
|-------------------------------------|-------------------|
| VALVE-RELIEF (Set 125 Lbs.) . . . . | 90AR110           |
| VALVE-RELIEF (Set 150 Lbs.) . . . . | 90AR110           |
| VALVE-RELIEF (Set 175 Lbs.) . . . . | 90AR110           |

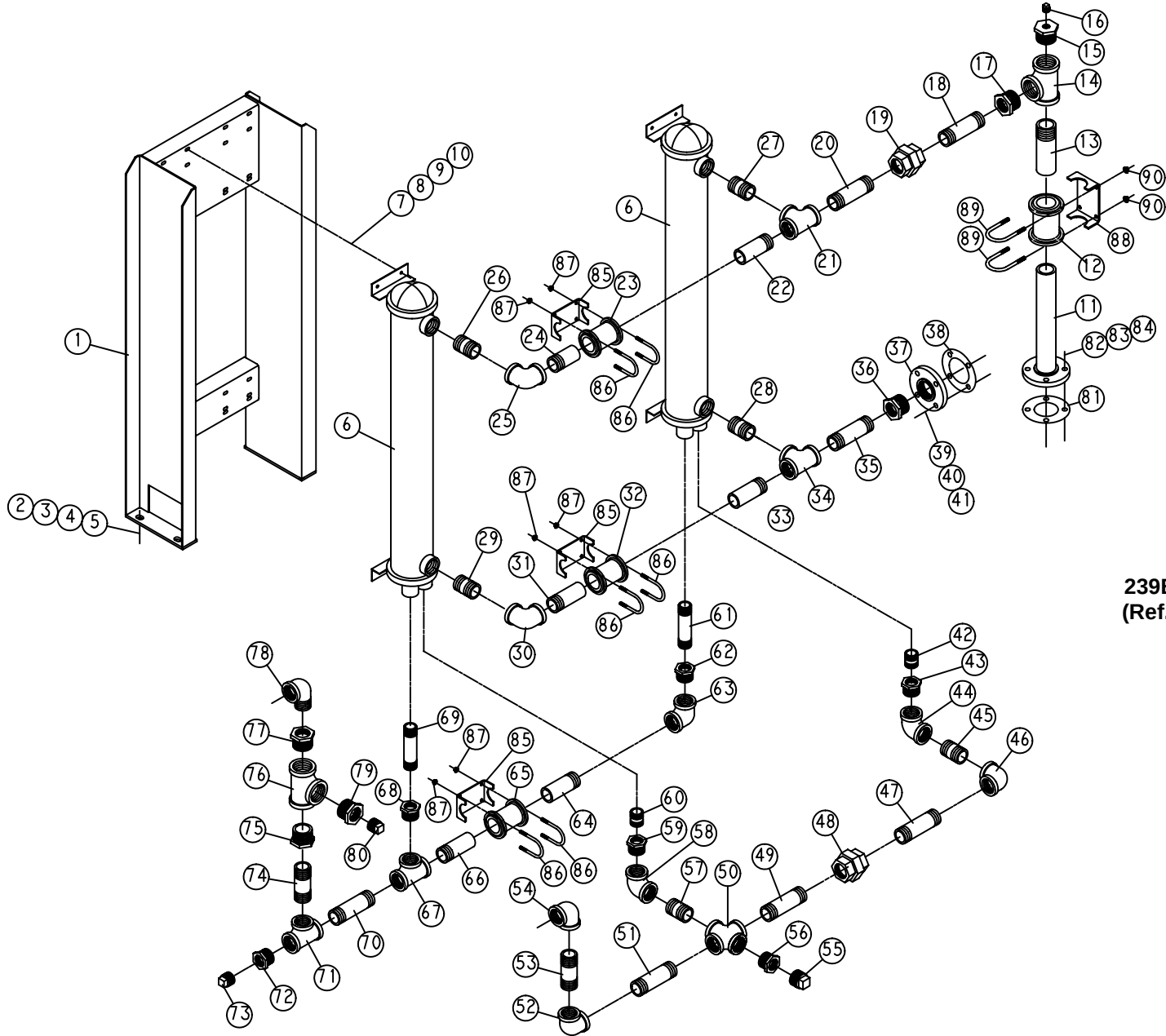
## OIL FILTER AND MIXING VALVES (Component Parts)



**SUBTRACTIVE PILOT VALVE - 2009398**  
(See Note)



350 AND 400 HP WATER COOLED OIL COOLER



239EAY810-A  
(Ref. Drawing)

Order by part number and description. Reference numbers are for your convenience only.

### 350 AND 400 HP WATER COOLED OIL COOLER

| Ref. No. | Name of Part            | Qty. | Part No.   |
|----------|-------------------------|------|------------|
| 1        | SUPPORT .....           | 1    | 201ESV165  |
| 2        | SCREW .....             | 4    | 655EG080   |
| 3        | WASHER .....            | 4    | 95A8       |
| 4        | LOCKWASHER .....        | 4    | 95B8       |
| 5        | NUT .....               | 4    | 50B8       |
| 6        | HEAT EXCHANGER .....    | 2    | *          |
| 7        | SCREW .....             | 8    | 655ED040   |
| 8        | WASHER .....            | 16   | 95A3       |
| 9        | LOCKWASHER .....        | 8    | 95B3       |
| 10       | NUT .....               | 8    | 50B3       |
| 11       | MANIFOLD-OIL .....      | 1    | 202EAY116  |
| 12+      | COUPLING-FLEXIBLE ..... | 1    | 64EB802    |
| 13       | NIPPLE .....            | 1    | 63AJ40X52G |
| 14       | TEE-PIPE .....          | 1    | 64G22G     |
| 15       | BUSHING-PIPE .....      | 1    | 64E58      |
| 16       | PLUG .....              | 1    | 64AA3      |
| 17       | BUSHING-PIPE .....      | 1    | 64E25      |
| 18       | NIPPLE .....            | 1    | 63L22G     |
| 19       | UNION-STRAIGHT .....    | 1    | 64Z2       |
| 20       | NIPPLE-PIPE .....       | 1    | 63L5G      |
| 21       | TEE-PIPE .....          | 1    | 64G1G      |
| 22       | NIPPLE .....            | 1    | 63AJ32X46G |
| 23++     | COUPLING-FLEXIBLE ..... | 1    | 2117159    |
| 24       | NIPPLE .....            | 1    | 63AJ32X46G |
| 25       | ELBOW .....             | 1    | 64C9G      |
| 26       | NIPPLE .....            | 1    | 63L13G     |
| 27       | NIPPLE .....            | 1    | 63L13G     |
| 28       | NIPPLE .....            | 1    | 63L13G     |
| 29       | NIPPLE .....            | 1    | 63L13G     |
| 30       | ELBOW .....             | 1    | 64C9G      |
| 31       | NIPPLE .....            | 1    | 63AJ32X46G |
| 32++     | COUPLING-FLEXIBLE ..... | 1    | 2117159    |
| 33       | NIPPLE .....            | 1    | 63AJ32X46G |
| 34       | TEE-PIPE .....          | 1    | 64G1G      |
| 35       | NIPPLE .....            | 1    | 63L25G     |
| 36       | BUSHING-PIPE .....      | 1    | 64E25      |
| 37       | FLANGE-THREADED .....   | 1    | 64CA8      |
| 38       | GASKET .....            | 1    | 25C2722N   |
| 39       | SCREW .....             | 4    | 655EF120   |
| 40       | LOCKWASHER .....        | 4    | 95B7       |
| 41       | NUT .....               | 4    | 50B7       |
| 42       | NIPPLE .....            | 1    | 63K18G     |
| 43       | BUSHING-PIPE .....      | 1    | 64E12      |
| 44       | ELBOW .....             | 1    | 64C9G      |
| 45       | NIPPLE .....            | 1    | 63L15G     |

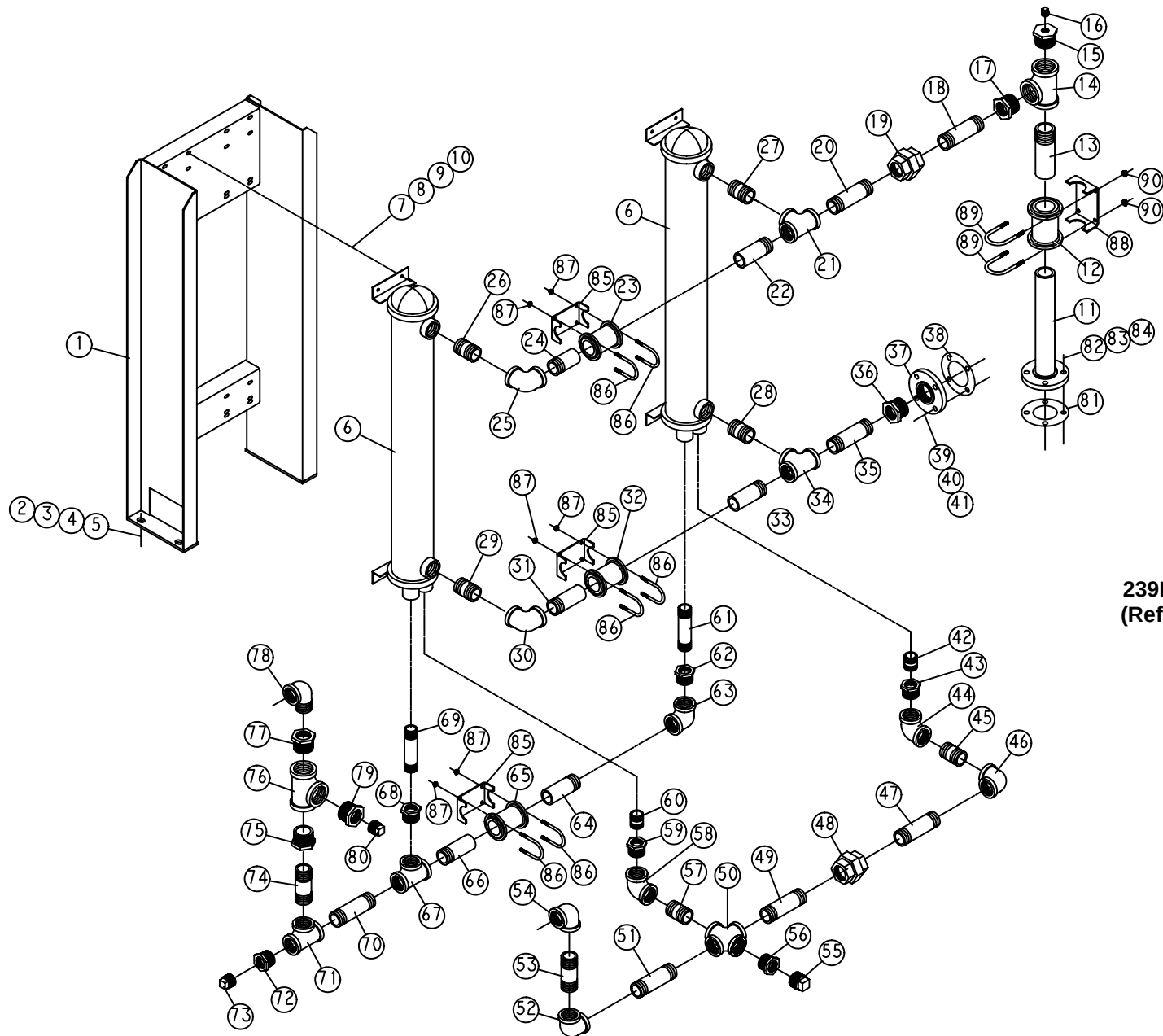
| Ref. No. | Name of Part            | Qty. | Part No    |
|----------|-------------------------|------|------------|
| 46       | ELBOW .....             | 1    | 64C9G      |
| 47       | NIPPLE .....            | 1    | 63L20G     |
| 48       | UNION-STRAIGHT .....    | 1    | 64Z2       |
| 49       | NIPPLE .....            | 1    | 63L18G     |
| 50       | CROSS-PIPE .....        | 1    | 64K21G     |
| 51       | NIPPLE .....            | 1    | 63L22G     |
| 52       | ELBOW .....             | 1    | 64C9G      |
| 53       | NIPPLE .....            | 1    | 63L21G     |
| 54       | ELBOW .....             | 1    | 64C9G      |
| 55       | PLUG .....              | 1    | 64A27      |
| 56       | BUSHING-PIPE .....      | 1    | 64E12      |
| 57       | NIPPLE .....            | 1    | 63L15G     |
| 58       | ELBOW .....             | 1    | 64C9G      |
| 59       | BUSHING-PIPE .....      | 1    | 64E12      |
| 60       | NIPPLE .....            | 1    | 63K18G     |
| 61       | NIPPLE .....            | 1    | 63K5G      |
| 62       | BUSHING-PIPE .....      | 1    | 64E12      |
| 63       | ELBOW .....             | 1    | 64C9G      |
| 64       | NIPPLE .....            | 1    | 63AJ32X46G |
| 65++     | COUPLING-FLEXIBLE ..... | 1    | 2117159    |
| 66       | NIPPLE .....            | 1    | 63AJ32X46G |
| 67       | TEE-PIPE .....          | 1    | 64G1G      |
| 68       | BUSHING-PIPE .....      | 1    | 64E12      |
| 69       | NIPPLE .....            | 1    | 63K5G      |
| 70       | NIPPLE .....            | 1    | 63L24G     |
| 71       | TEE-PIPE .....          | 1    | 64G1G      |
| 72       | BUSHING-PIPE .....      | 1    | 64E12      |
| 73       | PLUG .....              | 1    | 64A27      |
| 74       | NIPPLE .....            | 1    | 63L4G      |
| 75       | BUSHING-PIPE .....      | 1    | 64E25      |
| 76       | TEE-PIPE .....          | 1    | 64G22G     |
| 77       | BUSHING-PIPE .....      | 1    | 64E25      |
| 78       | ELBOW ST .....          | 1    | 64D9G      |
| 79       | BUSHING-PIPE .....      | 1    | 64E85      |
| 80       | PLUG .....              | 1    | 64A27      |
| 81       | GASKET .....            | 1    | 25C2722N   |
| 82       | SCREW .....             | 4    | 655EF120   |
| 83       | LOCKWASHER .....        | 4    | 95B7       |
| 84       | NUT-HEX .....           | 4    | 50B7       |
| 85       | BRACKET-PIPE .....      | 3    | 200EAP108  |
| 86       | U-BOLT .....            | 6    | 15U111     |
| 87       | NUT-FLANGE .....        | 12   | 50AW5      |
| 88       | BRACKET-PIPE .....      | 1    | 301EAY108  |
| 89       | U-BOLT .....            | 2    | 15U57      |
| 90       | NUT-FLANGE .....        | 4    | 50AW5      |

\* Selective item. See page 30.

+ For Repair Gasket – Order Part No. 2117160, (2) Required.

++ For Repair Gasket – Order Part No. 2117159, (2) Required.

# 500 HP WATER COOLED OIL COOLER



239EAY810-A  
(Ref. Drawing)

Order by part number and description. Reference numbers are for your convenience only.

### 500 HP WATER COOLED OIL COOLER

| Ref. No. | Name of Part            | Qty. | Part No.   |
|----------|-------------------------|------|------------|
| 1        | SUPPORT .....           | 1    | 201ESV165  |
| 2        | SCREW .....             | 4    | 655EG080   |
| 3        | WASHER .....            | 4    | 95A8       |
| 4        | LOCKWASHER .....        | 4    | 95B8       |
| 5        | NUT .....               | 4    | 50B8       |
| 6        | HEAT EXCHANGER .....    | 2    | *          |
| 7        | SCREW .....             | 8    | 655ED040   |
| 8        | WASHER .....            | 16   | 95A3       |
| 9        | LOCKWASHER .....        | 8    | 95B3       |
| 10       | NUT .....               | 8    | 50B3       |
| 11       | MANIFOLD .....          | 1    | 201EAY116  |
| 12+      | COUPLING-FLEXIBLE ..... | 1    | 64EB802    |
| 13       | NIPPLE .....            | 1    | 63AJ40X66G |
| 14       | TEE-PIPE .....          | 1    | 64G22G     |
| 15       | BUSHING-PIPE .....      | 1    | 64E58      |
| 16       | PLUG .....              | 1    | 64AA3      |
| 17       | BUSHING-PIPE .....      | 1    | 64E25      |
| 18       | NIPPLE .....            | 1    | 63L23G     |
| 19       | UNION-STRAIGHT .....    | 1    | 64Z2       |
| 20       | NIPPLE .....            | 1    | 63L5G      |
| 21       | TEE-PIPE .....          | 1    | 64G1G      |
| 22       | NIPPLE .....            | 1    | 63AJ32X46G |
| 23++     | COUPLING-FLEXIBLE ..... | 1    | 64EB801    |
| 24       | NIPPLE .....            | 1    | 63AJ32X46G |
| 25       | ELBOW .....             | 1    | 64C9G      |
| 26       | NIPPLE .....            | 1    | 63L14G     |
| 27       | NIPPLE .....            | 1    | 63L14G     |
| 28       | NIPPLE .....            | 1    | 63L14G     |
| 29       | NIPPLE .....            | 1    | 63L14G     |
| 30       | ELBOW .....             | 1    | 64C9G      |
| 31       | NIPPLE .....            | 1    | 63AJ32X46G |
| 32++     | COUPLING-FLEXIBLE ..... | 1    | 64EB801    |
| 33       | NIPPLE .....            | 1    | 63AJ32X46G |
| 34       | TEE-PIPE .....          | 1    | 64G1G      |
| 35       | NIPPLE .....            | 1    | 63L25G     |
| 36       | BUSHING-PIPE .....      | 1    | 64E25      |
| 37       | FLANGE-THREADED .....   | 1    | 64CA8      |
| 38       | GASKET .....            | 1    | 25C2722N   |
| 39       | SCREW .....             | 4    | 655EF120   |
| 40       | LOCKWASHER .....        | 4    | 95B7       |
| 41       | NUT .....               | 4    | 50B7       |
| 42       | NIPPLE .....            | 1    | 63K18G     |
| 43       | BUSHING-PIPE .....      | 1    | 64E12      |
| 44       | ELBOW .....             | 1    | 64C9G      |
| 45       | NIPPLE .....            | 1    | 63L15G     |

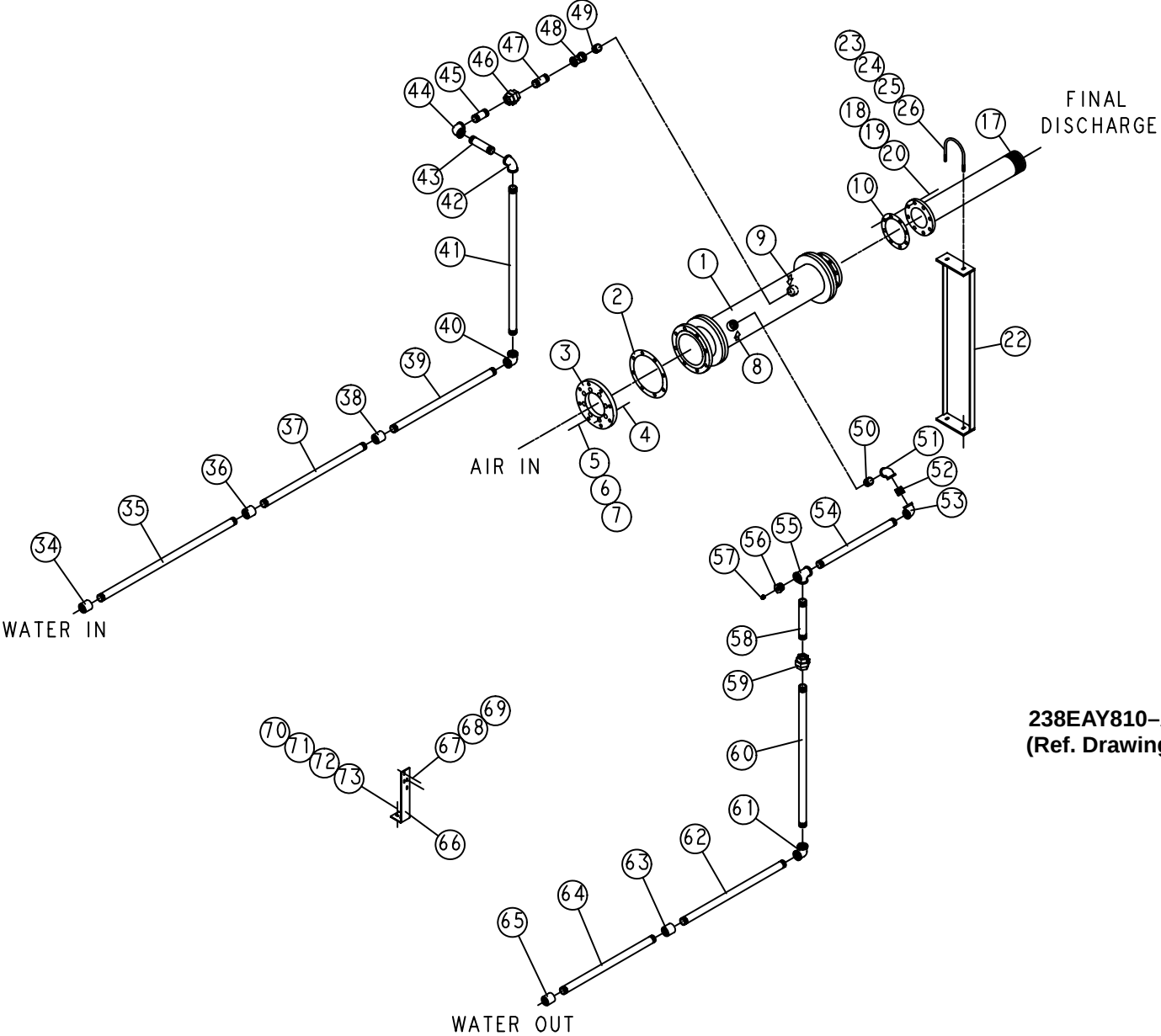
| Ref. No. | Name of Part            | Qty. | Part No.   |
|----------|-------------------------|------|------------|
| 46       | ELBOW .....             | 1    | 64C9G      |
| 47       | NIPPLE .....            | 1    | 63L20G     |
| 48       | UNION-STRAIGHT .....    | 1    | 64Z2       |
| 49       | NIPPLE .....            | 1    | 63L18G     |
| 50       | CROSS-PIPE .....        | 1    | 64K21G     |
| 51       | NIPPLE .....            | 1    | 63L22G     |
| 52       | ELBOW .....             | 1    | 64C9G      |
| 53       | NIPPLE .....            | 1    | 63L21G     |
| 54       | ELBOW .....             | 1    | 64C9G      |
| 55       | PLUG .....              | 1    | 64A27      |
| 56       | BUSHING-PIPE .....      | 1    | 64E12      |
| 57       | NIPPLE .....            | 1    | 63L15G     |
| 58       | ELBOW .....             | 1    | 64C9G      |
| 59       | BUSHING-PIPE .....      | 1    | 64E12      |
| 60       | NIPPLE .....            | 1    | 63K18G     |
| 61       | NIPPLE .....            | 1    | 63K5G      |
| 62       | BUSHING-PIPE .....      | 1    | 64E12      |
| 63       | ELBOW .....             | 1    | 64C9G      |
| 64       | NIPPLE .....            | 1    | 63AJ32X46G |
| 65++     | COUPLING-FLEXIBLE ..... | 1    | 64EB801    |
| 66       | NIPPLE .....            | 1    | 63AJ32X46G |
| 67       | TEE-PIPE .....          | 1    | 64G1G      |
| 68       | BUSHING-PIPE .....      | 1    | 64E12      |
| 69       | NIPPLE .....            | 1    | 63K5G      |
| 70       | NIPPLE .....            | 1    | 63L24G     |
| 71       | TEE-PIPE .....          | 1    | 64G1G      |
| 72       | BUSHING-PIPE .....      | 1    | 64E12      |
| 73       | PLUG .....              | 1    | 64A27      |
| 74       | NIPPLE .....            | 1    | 63L22G     |
| 75       | BUSHING-PIPE .....      | 1    | 64E25      |
| 76       | TEE-PIPE .....          | 1    | 64G22G     |
| 77       | BUSHING-PIPE .....      | 1    | 64E25      |
| 78       | ELBOW ST .....          | 1    | 64D9G      |
| 79       | BUSHING-PIPE .....      | 1    | 64E85      |
| 80       | PLUG .....              | 1    | 64A27      |
| 81       | GASKET .....            | 1    | 25C2722N   |
| 82       | SCREW .....             | 4    | 655EF120   |
| 83       | LOCKWASHER .....        | 4    | 95B7       |
| 84       | NUT .....               | 4    | 50B7       |
| 85       | BRACKET-PIPE .....      | 3    | 200EAP108  |
| 86       | U-BOLT .....            | 6    | 15U11      |
| 87       | NUT-FLANGE .....        | 12   | 50AW5      |
| 88       | BRACKET-PIPE .....      | 1    | 300EAY108  |
| 89       | U-BOLT .....            | 2    | 15U57      |
| 90       | NUT-FLANGE .....        | 4    | 50AW5      |

\* Selective item. See page 30.

+ For Repair Gasket – Order Part No. 2117160, (2) Required.

++ For Repair Gasket – Order Part No. 2117159, (2) Required.

AFTERCOOLER GROUP



238EAY810-A  
(Ref. Drawing)

Order by part number and description. Reference numbers are for your convenience only.

### AFTERCOOLER GROUP

| Ref.<br>No. | Name of Part             | Qty. | Part No.   | Ref.<br>No. | Name of Part                          | Qty. | Part No.   |
|-------------|--------------------------|------|------------|-------------|---------------------------------------|------|------------|
| 1           | AFTERCOOLER .....        | 1    | 48Z64      | 48          | ELBOW .....                           | 1    | 64C8G      |
| 2           | GASKET RING .....        | 1    | 25C2721N   | 49          | NIPPLE .....                          | 1    | 63K2G      |
| 3           | ADAPTOR .....            | 1    | 200ESV170  | 50          | NIPPLE .....                          | 1    | 63K18G     |
| 4           | SCREW .....              | 8    | 75P199N    | 51          | ELBOW .....                           | 1    | 64C8G      |
| 5           | SCREW .....              | 8    | 655EG130   | 52          | NIPPLE .....                          | 1    | 63K18G     |
| 6           | LOCKWASHER .....         | 8    | 95B8       | 53          | ELBOW .....                           | 1    | 64C8G      |
| 7           | NUT .....                | 8    | 50B8       | 54          | NIPPLE .....                          | 1    | 63N24X233G |
| 8           | DECAL .....              | 1    | 201ESP077  | 55          | TEE .....                             | 1    | 64G11G     |
| 9           | DECAL .....              | 1    | 200ESP077  | 56          | BUSHING-PIPE .....                    | 1    | 64E8       |
| 10          | GASKET RING .....        | 1    | 25C2501    | 57          | PLUG .....                            | 1    | 64A24      |
| 17          | MANIFOLD-DISCHARGE ..... | 1    | 203EAY071  | 58          | NIPPLE .....                          | 1    | 63K16G     |
| 18          | SCREW .....              | 8    | 655EG120   | 59          | UNION-STRAIGHT .....                  | 1    | 64Z1       |
| 19          | LOCKWASHER .....         | 8    | 95B8       | 60          | NIPPLE .....                          | 1    | 63N24X357G |
| 20          | NUT .....                | 8    | 50B8       | 61          | ELBOW .....                           | 1    | 64C8G      |
| 22          | BRACKET-PIPE .....       | 1    | 201ESV108  | 62          | NIPPLE .....                          | 1    | 63N24X300G |
| 23          | U-BOLT .....             | 1    | 15U48      | 63          | COUPLING-PIPE .....                   | 1    | 64BK8      |
| 24          | WASHER .....             | 2    | 95A5       | 64          | NIPPLE .....                          | 1    | 63N24X270G |
| 25          | LOCKWASHER .....         | 2    | 95B5       |             |                                       |      |            |
| 26          | NUT .....                | 2    | 50B5       | 65          | COUPLING-PIPE .....                   | 1    | 64BK8      |
| 33          | PLUG .....               | 2    | 64AA7      | 66          | BRACKET-PIPE .....                    | 1    | 201EAY108  |
| 34          | COUPLING-PIPE .....      | 1    | 64BK8      | 67          | U-BOLT .....                          | 2    | 15U58      |
| 35          | NIPPLE .....             | 1    | 63N24X400G | 68          | WASHER .....                          | 4    | 95A3       |
| 36          | COUPLING-PIPE .....      | 1    | 64BK8      | 69          | NUT .....                             | 4    | 50B3       |
| 37          | NIPPLE .....             | 1    | 63N24X300G | 70          | SCREW .....                           | 2    | 655ED070   |
| 38          | COUPLING-PIPE .....      | 1    | 64BK8      | 71          | WASHER .....                          | 4    | 95A3       |
| 39          | NIPPLE .....             | 1    | 63N24X300G | 72          | WASHER .....                          | 2    | 95B3       |
| 40          | ELBOW .....              | 1    | 64C8G      | 73          | NUT .....                             | 2    | 50B3       |
| 41          | NIPPLE .....             | 1    | 63N24X374G | *           | RELAY .....                           | 1    | 24CA771    |
| 42          | ELBOW .....              | 1    | 64C8G      | *           | SCREW-MACHINE .....                   | 2    | 75LM172    |
| 43          | NIPPLE .....             | 1    | 63K5G      | *           | LOCKWASHER .....                      | 2    | 95H15      |
| 44          | ELBOW .....              | 1    | 64C8G      | *           | WIRE .....                            | 6    | 97H2R      |
| 45          | NIPPLE .....             | 1    | 63K15G     | *           | GRP-MISC PARTS-Includes the following | 1    | 201EAY4013 |
| 46          | UNION-STRAIGHT .....     | 1    | 64Z1       |             | SEPARATOR-MOISTURE .....              | 1    | 83C7       |
| 47          | NIPPLE .....             | 1    | 63K15G     |             | TRAP .....                            | 1    | 83C41      |

\* Not shown on illustration.

**SELECTIVE ITEMS – WATER-COOLED UNITS**  
**(Fresh Water Service)**

| Name of Part                                    | 350 HORSEPOWER | 400 HORSEPOWER | 500 HORSEPOWER |
|-------------------------------------------------|----------------|----------------|----------------|
| Heat Exchanger (2), Includes next 5 items ..... | 204ESS349      | 205ESP349      | 202ESV349      |
| Bonnet, Inlet–Outlet (2) .....                  | 2109065        | 2109065        | 2109065        |
| Gasket, Inlet–Outlet (2) .....                  | 2109063        | 2109063        | 2109063        |
| Bonnet, Return (2) .....                        | 2109066        | 2109066        | 2109061        |
| Gasket, Return (2) .....                        | 2109064        | 2109064        | 2109064        |
| Anode–Zinc (4) .....                            | 2109068        | 2109068        | 2109057        |
| Regulator–Temperature (Terice) .....            | 90AR152        | 90AR152        | 90AR152        |
| *     Stem Packing Assembly .....               | 2109051        | 2109051        | 2109051        |
| *     Thermal System Kit .....                  | 2109490        | 2109490        | 2109490        |
| Valve–Solenoid, Magnetic Water (Nema 1) .....   | 91B2           | 91B2           | 91B2           |
| Valve–Solenoid, Magnetic Water (Nema 2) .....   | 91B23          | 91B23          | 91B23          |
| Aftercooler, Includes next 3 items .....        | 48Z64          | 48Z64          | 48Z64          |
| Gasket (2) .....                                | 2109145        | 2109145        | 2109145        |
| Ring–Packing (2) .....                          | 2109146        | 2109146        | 2109146        |
| Ring–Lantern (Nylon) .....                      | 2109147        | 2109147        | 2109147        |
| Separator, Moisture .....                       | 83C3           | 83C3           | 83C3           |
| Trap, Separator, Includes next 3 items .....    | 83C41          | 83C41          | 83C41          |
| Gasket, Cap .....                               | 2109518        | 2109518        | 2109518        |
| Gasket, Retainer .....                          | 2109519        | 2109519        | 210951         |
| Screen, Strainer .....                          | 2109520        | 2109520        | 2109520        |

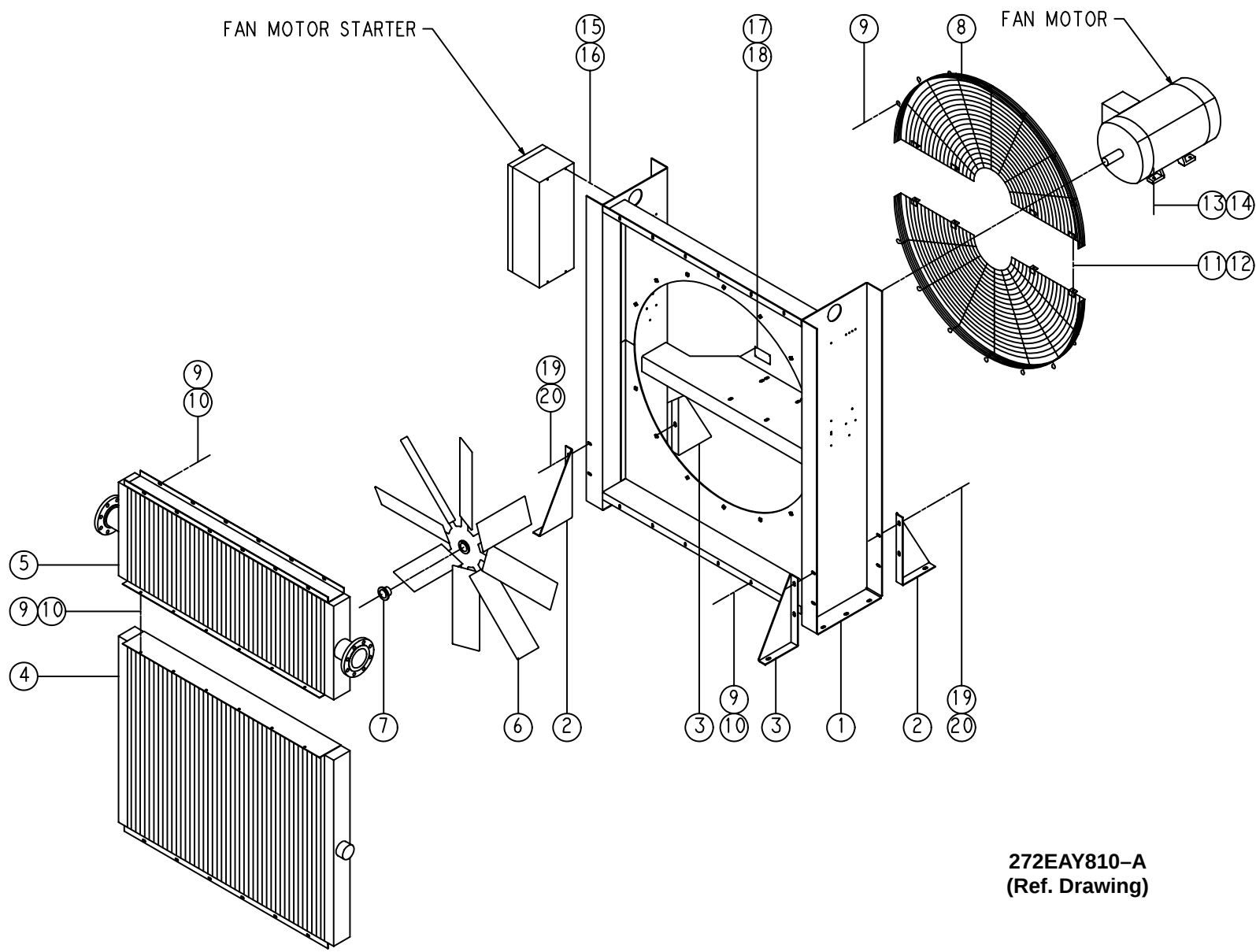
\*   Furnish as required for repair of complete temperature regulator (kit consists of remote bulb, capillary tube and bellows).

**SELECTIVE ITEMS – WATER-COOLED UNITS**  
**(Salt Water Service)**  
**(Not Available for 500 H.P. Service)**

| Name of Part                                | 350 HORSEPOWER | 400 HORSEPOWER |
|---------------------------------------------|----------------|----------------|
| Heat Exchanger, Includes next 6 items ..... | 203ESS349      | 204ESP349      |
| Bracket, Mounting (2) .....                 | 2109067        | 2109067        |
| Gasket, Inlet–Outlet .....                  | 2109063        | 2109063        |
| Bonnet, Inlet–Outlet .....                  | 2109077        | 2109077        |
| Gasket, Return .....                        | 2109064        | 2109064        |
| Bonnet, Return .....                        | 2109076        | 2109076        |
| Anode–Zinc (2) .....                        | 2109068        | 2109068        |
| Regulator–Temperature (Trerice) .....       | 90AR106        | 90AR106        |
| * Asm Stem Packing .....                    | 2109051        | 2109051        |
| * Thermal System Kit .....                  | 2109490        | 2109490        |

\* Furnish as required for repair of complete temperature regulator (kit consists of remote bulb, capillary tube and bellows).

AIR COOLED COOLER GROUP



272EAY810-A  
(Ref. Drawing)

Order by part number and description. Reference numbers are for your convenience only.

AIR COOLED COOLER GROUP

| Ref.<br>No. | Name of Part         | Qty. | Part No.  |
|-------------|----------------------|------|-----------|
| 1           | SUPPORT .....        | 1    | 204EAY165 |
| 2           | SUPPORT .....        | 2    | 205EAY165 |
| 3           | SUPPORT .....        | 2    | 206EAY165 |
| 4           | COOLER-OIL-AIR ..... | 1    | 200EAY201 |
| 5           | AFTERCOOLER .....    | 1    | 200EAY292 |
| 6           | FAN .....            | 1    | 200EAY701 |
| 7           | BUSHING-SHEAVE ..... | 1    | 2009277   |
| 8           | GUARD-FAN .....      | 1    | 200EAY393 |
| 9           | SCREW-FLANGED .....  | 32   | 75LM51    |
| 10          | NUT-FLANGED .....    | 18   | 50AW5     |
| 11          | SCREW-FLANGED .....  | 4    | 75LM50    |
| 12          | NUT-FLANGED .....    | 4    | 50AW4     |
| 13          | SCREW-FLANGED .....  | 4    | 75LM135   |
| 14          | NUT-FLANGED .....    | 4    | 50AW35    |
| 15          | SCREW-FLANGED .....  | 4    | 75LM53    |
| 16          | NUT-FLANGED .....    | 4    | 50AW3     |
| 17          | PLATE-NAME .....     | 1    | 69A138    |
| 18          | RIVET .....          | 4    | 70E13     |
| 19          | SCREW-FLANGED .....  | 8    | 75LM135   |
| 20          | NUT-FLANGED .....    | 8    | 50AW35    |

NOTE: (1) each 83C10 Separator and 83C41 Trap are shipped loose with each Cooling Module.

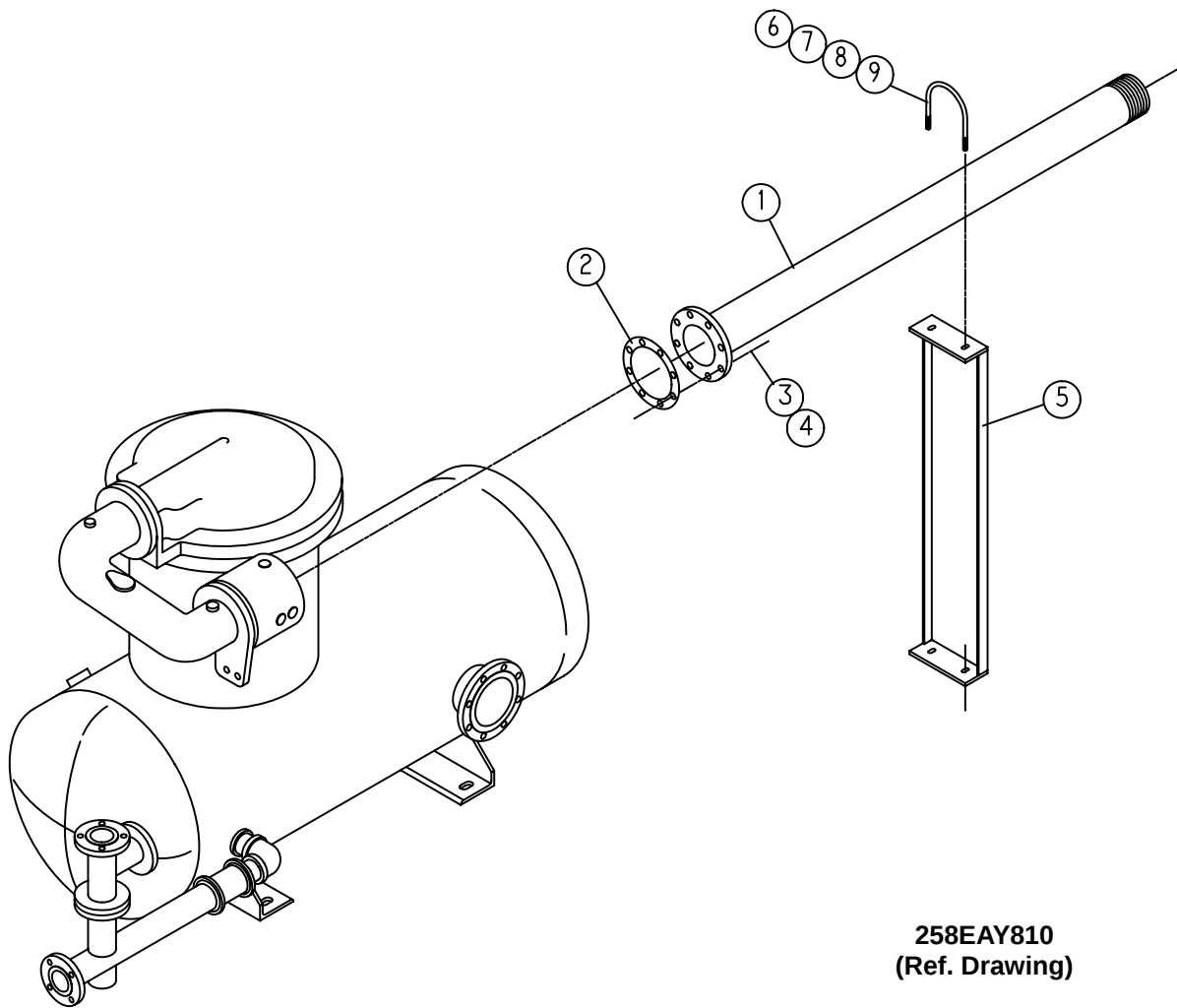
**AIR COOLED COOLER SELECTIVES**  
(With Aftercooler Only) (50/60 Hz)

|   | Cooling Group | H.P.    | Volt | NEMA | Fan Motor Starter | Fan Motor | O.L. Heaters (3) | Fuse (3) |
|---|---------------|---------|------|------|-------------------|-----------|------------------|----------|
| * | 209EAY4003    | 350/400 | 230  | 1    | 24CA3668          | 24CA4065  | 24CA3684         | 24CA360  |
| * | 210EAY4003    | 350/400 | 460  | 1    | 24CA3670          | 24CA4065  | 24CA638          | 24CA564  |
| * | 211EAY4003    | 350/400 | 230  | 4    | 24CA3671          | 24CA4065  | 24CA3684         | 24CA360  |
| * | 212EAY4003    | 350/400 | 460  | 4    | 24CA3673          | 24CA4065  | 24CA638          | 24CA564  |
| * | 217EAY4003    | 500     | 230  | 1    | 24CA3668          | 24CA4065  | 24CA3684         | 24CA360  |
| * | 218EAY4003    | 500     | 460  | 1    | 24CA3670          | 24CA4065  | 24CA638          | 24CA564  |
| * | 219EAY4003    | 500     | 230  | 4    | 24CA3671          | 24CA4065  | 24CA3684         | 24CA360  |
| * | 220EAY4003    | 500     | 460  | 4    | 24CA3673          | 24CA4065  | 24CA638          | 24CA564  |
| * | 225EAY4003    | 350/400 | 575  | 1    | 24CA3670          | 24CA4066  | 24CA636          | 24CA555  |
| * | 226EAY4003    | 350/400 | 575  | 4    | 24CA3673          | 24CA4066  | 24CA636          | 24CA555  |
| * | 227EAY4003    | 500     | 575  | 1    | 24CA3670          | 24CA4066  | 24CA636          | 24CA555  |
| * | 228EAY4003    | 500     | 575  | 4    | 24CA3673          | 24CA4066  | 24CA636          | 24CA555  |
| * | 231EAY4003    | 350/400 | 380  | 1    | 24CA3670          | 24CA4067  | 24CA642          | 24CA2005 |
| * | 232EAY4003    | 350/400 | 380  | 4    | 24CA3673          | 24CA4067  | 24CA642          | 24CA2005 |
| * | 233EAY4003    | 500     | 380  | 1    | 24CA3670          | 24CA4067  | 24CA642          | 24CA2005 |
| * | 234EAY4003    | 500     | 380  | 4    | 24CA3673          | 24CA4067  | 24CA642          | 24CA2005 |

NOTE: (1) Each 83C10 Separator and 83C41 Trap are shipped loose with Cooling Module.

\* These cooling groups include reference numbers 1 thru 18 on page 33 and 1 thru 14 on page 36.

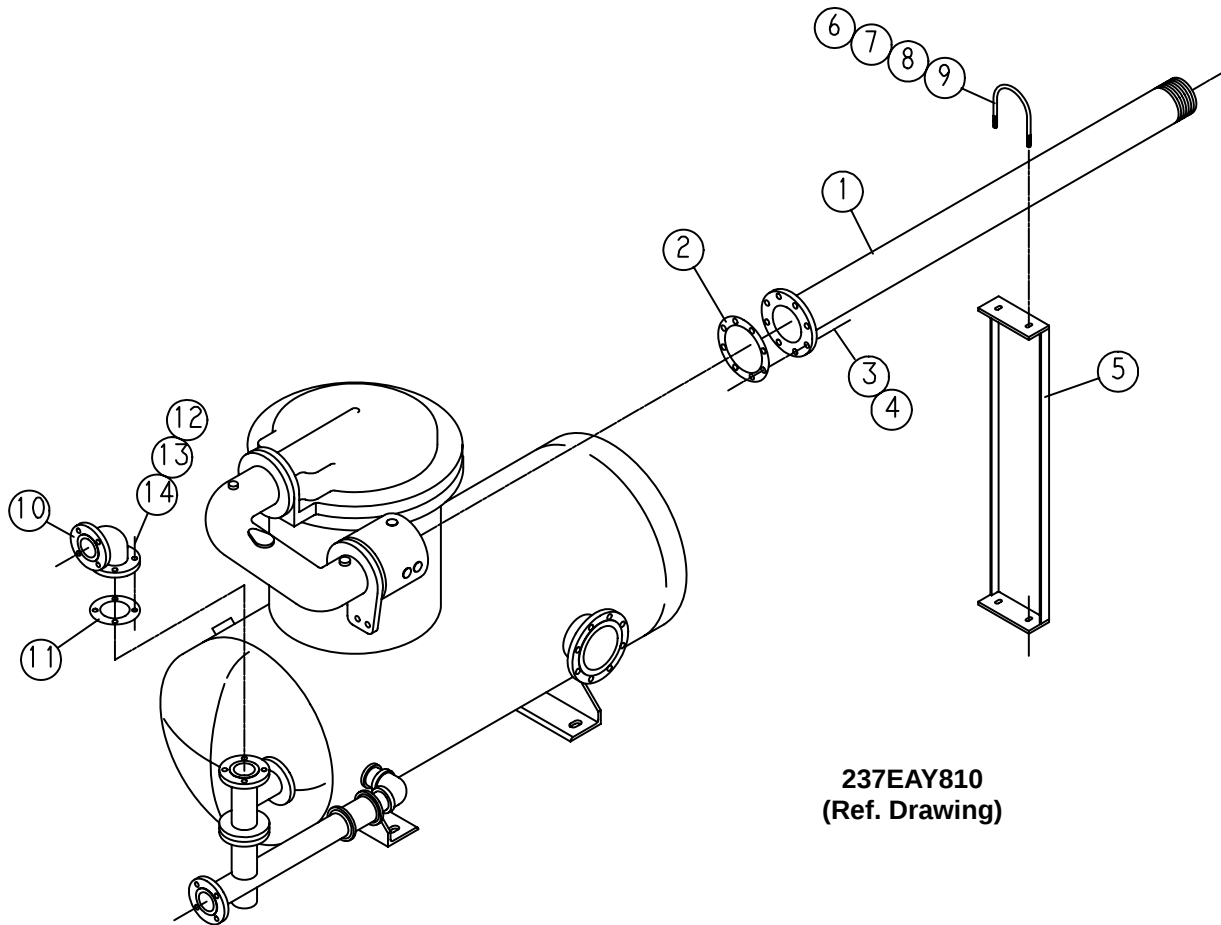
Order by Part Number and Description. Reference Numbers are for your convenience only.



**DISCHARGE PIPING WATER-COOLED**  
(Without Aftercooler)

| Ref.<br>No. | Name of Part             | Qty. | Part No.  |
|-------------|--------------------------|------|-----------|
| 1           | MANIFOLD-DISCHARGE ..... | 1    | 200EAY071 |
| 2           | GASKET RING .....        | 1    | 25C2501   |
| 3           | SCREW .....              | 8    | 655EG070  |
| 4           | LOCKWASHER .....         | 8    | 95B8      |
| 5           | BRACKET .....            | 1    | 201ESV108 |
| 6           | U-BOLT .....             | 1    | 15U48     |
| 7           | WASHER .....             | 2    | 95A5      |
| 8           | LOCKWASHER .....         | 2    | 95B5      |
| 9           | NUT .....                | 2    | 50B5      |

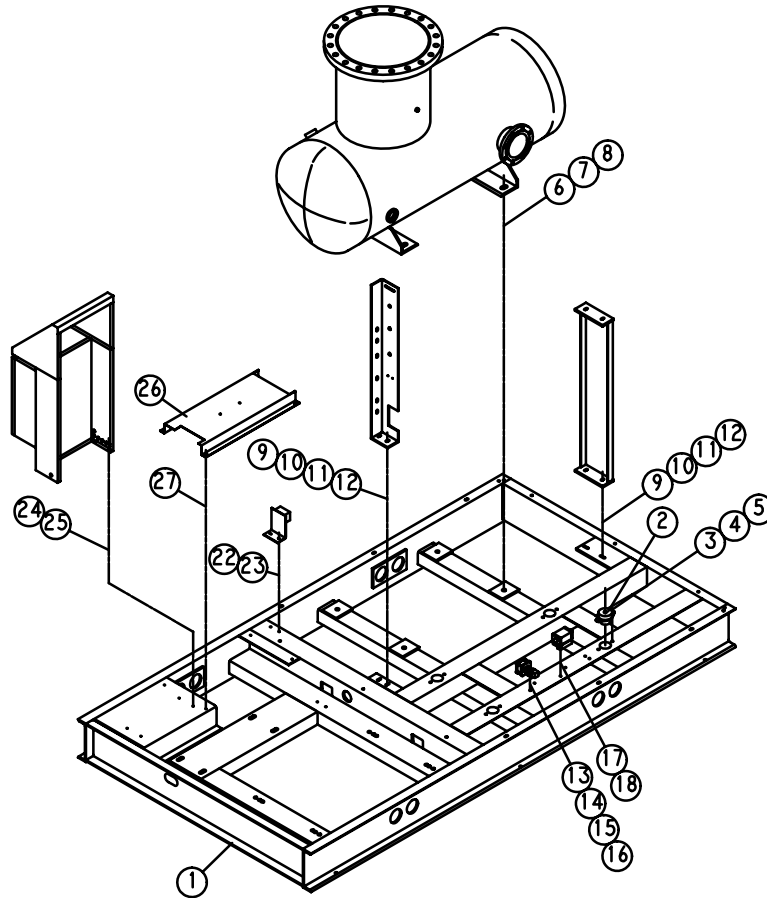
Order by Part Number and Description. Reference Numbers are for your convenience only.



**DISCHARGE PIPING AIR-COOLED  
(Without Aftercooler)**

| Ref.<br>No. | Name of Part             | Qty. | Part No.  |
|-------------|--------------------------|------|-----------|
| 1           | MANIFOLD-DISCHARGE ..... | 1    | 200EAY071 |
| 2           | GASKET RING .....        | 1    | 25C2501   |
| 3           | SCREW .....              | 8    | 655EG070  |
| 4           | LOCKWASHER .....         | 8    | 95B8      |
| 5           | BRACKET .....            | 1    | 201ESV108 |
| 6           | U-BOLT .....             | 1    | 15U48     |
| 7           | WASHER .....             | 2    | 95A5      |
| 8           | LOCKWASHER .....         | 2    | 95B5      |
| 9           | NUT .....                | 2    | 50B5      |
| 10          | MANIFOLD-OIL .....       | 1    | 202ESV116 |
| 11          | GASKET .....             | 1    | 25C2722N  |
| 12          | SCREW .....              | 4    | 655EF100  |
| 13          | LOCKWASHER .....         | 4    | 95B7      |
| 14          | NUT .....                | 4    | 50B7      |

Order by Part Number and Description. Reference Numbers are for your convenience only.

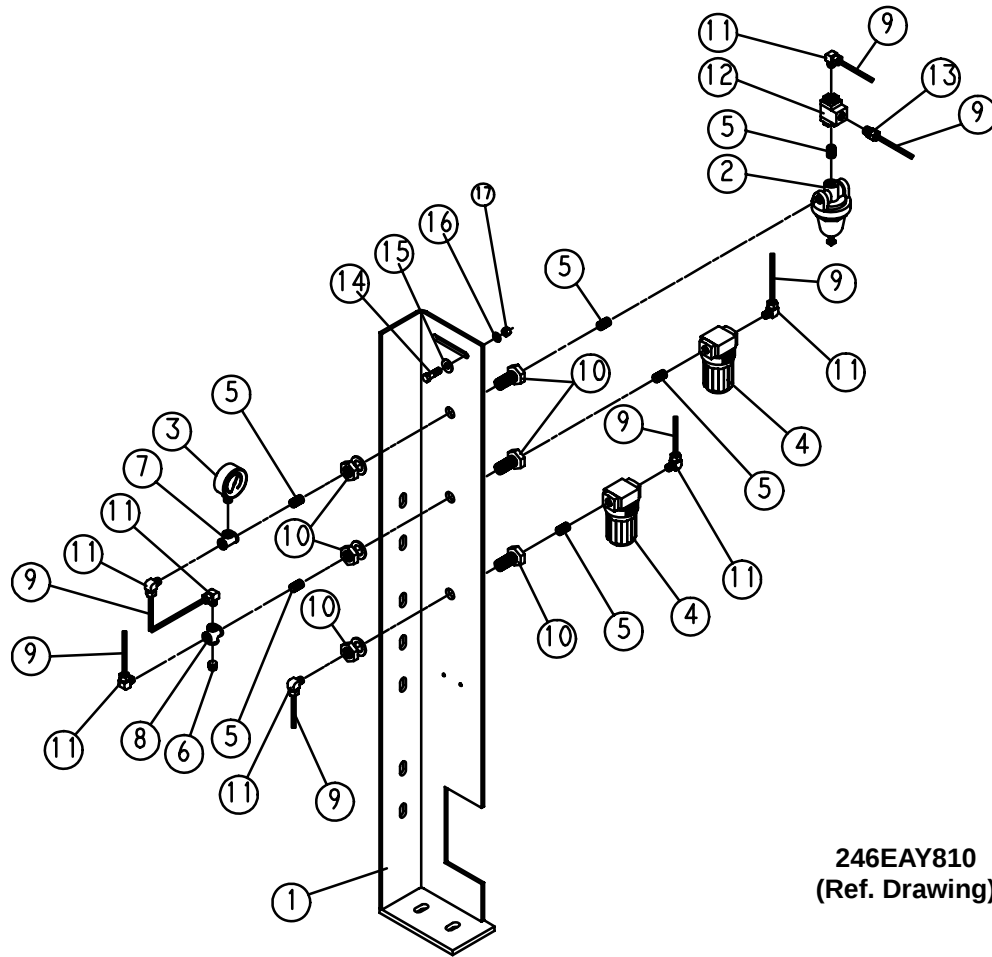


249EAY810-A  
(Ref. Drawing)

### BASE AND MOUNTING

| Ref.<br>No. | Name of Part             | Qty. | Part No.  |
|-------------|--------------------------|------|-----------|
| 1           | BASE .....               | 1    | 204EAY285 |
| 2           | ISOLATOR-VIBRATION ..... | 4    | 49C48     |
| 3           | SCREW .....              | 8    | 655EE050  |
| 4           | LOCKWASHER .....         | 8    | 95B5      |
| 5           | NUT .....                | 8    | 50B5      |
| 6           | SCREW .....              | 4    | 655EH080  |
| 7           | WASHER .....             | 4    | 95A10     |
| 8           | LOCKWASHER .....         | 4    | 95B10     |
| 9           | SCREW .....              | 4    | 655EE080  |
| 10          | WASHER .....             | 4    | 95A5      |
| 11          | LOCKWASHER .....         | 4    | 95B5      |
| 12          | NUT .....                | 4    | 50B5      |
| 13          | SCREW .....              | 2    | 655EC060  |
| 14          | WASHER .....             | 2    | 95A1      |
| 15          | LOCKWASHER .....         | 2    | 95B1      |
| 16          | NUT .....                | 2    | 50B1      |
| 17          | SCREW-MACHINE .....      | 4    | 75G24     |
| 18          | NUT-FLANGED .....        | 4    | 50AW2     |
| 22          | SCREW-FLANGED .....      | 2    | 75LM97    |
| 23          | NUT-FLANGED .....        | 2    | 50AW4     |
| 24          | SCREW .....              | 4    | 655ED040  |
| 25          | LOCKWASHER .....         | 4    | 95B3      |
| 26          | COVER .....              | 1    | 203EAY225 |
| 27          | SCREW .....              | 4    | 75K20     |

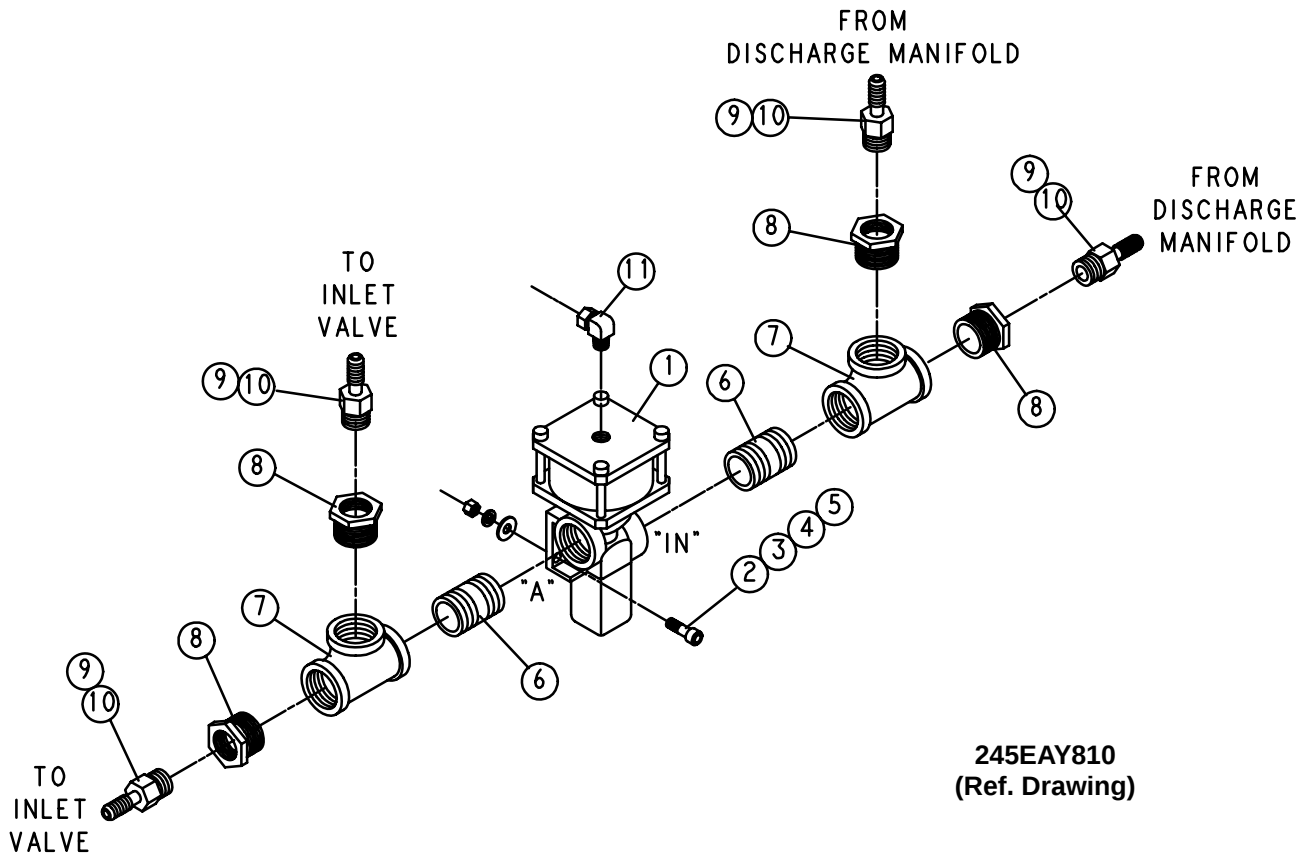
Order by Part Number and Description. Reference Numbers are for your convenience only.



### CONTROL MOUNTING

| Ref. No. | Name of Part                  | Qty.   | Part No.  |
|----------|-------------------------------|--------|-----------|
| 1        | BRACKET-AFTERCOOLER .....     | 1      | 200EAY118 |
| 2        | VALVE-SUBTRACTIVE PILOT ..... | 1      | 2009398   |
| 3        | GAUGE-PRESSURE .....          | 1      | 27P45     |
| 4        | FILTER-LINE .....             | 2      | 5L110     |
| 5        | NIPPLE-PIPE .....             | 6      | 63D1G     |
| 6        | PLUG .....                    | 1      | 64AA5     |
| 7        | TEE-PIPE .....                | 1      | 64G3G     |
| 8        | CROSS .....                   | 1      | 64K1G     |
| 9        | TUBE .....                    | 75 Ft. | 85G5      |
| 10       | COUPLING-PIPE .....           | 3      | 64EB368   |
| 11       | ELBOW .....                   | 7      | 86E64     |
| 12       | VALVE-CONTROL .....           | 1      | 90AR1006  |
| 13       | CONNECTOR-TUBE .....          | 1      | 86E9      |
| 14       | SCREW .....                   | 2      | 655EG110  |
| 15       | WASHER .....                  | 2      | 95A8      |
| 16       | LOCKWASHER .....              | 2      | 95B8      |
| 17       | NUT .....                     | 2      | 50B8      |

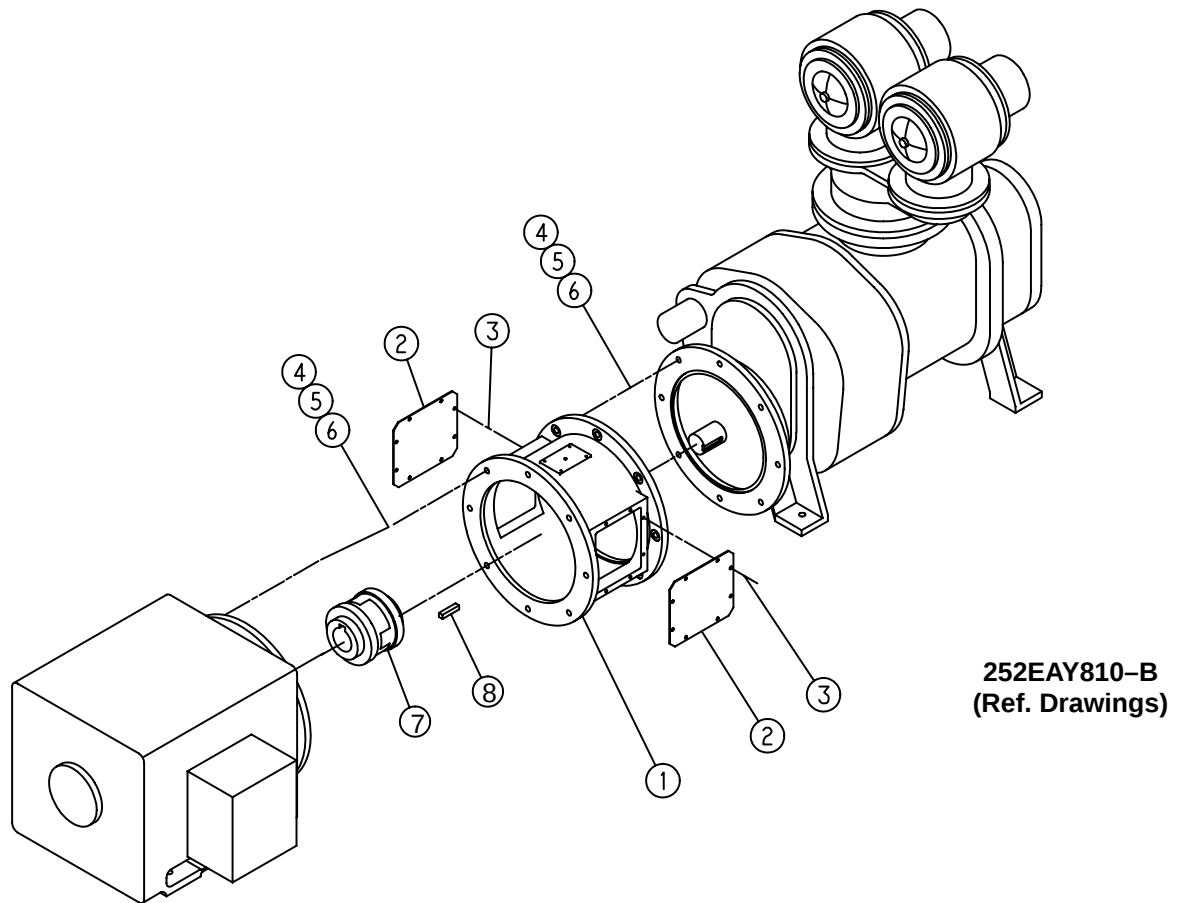
Order by Part Number and Description. Reference Numbers are for your convenience only.



### PURGE VALVE

| Ref. No. | Name of Part            | Qty. | Part No. |
|----------|-------------------------|------|----------|
| 1        | VALVE-AIR CONTROL ..... | 1    | 90AR262  |
| 2        | SCREW .....             | 2    | 75P42    |
| 3        | WASHER .....            | 2    | 95A2     |
| 4        | LOCKWASHER .....        | 2    | 95B2     |
| 5        | NUT .....               | 2    | 50B2     |
| 6        | NIPPLE .....            | 2    | 63H1G    |
| 7        | TEE-PIPE .....          | 2    | 64G8G    |
| 8        | BUSHING-PIPE .....      | 4    | 64E14    |
| 9        | NIPPLE-HOSE .....       | 4    | 29C26    |
| 10       | CLAMP-HOSE .....        | 4    | 29B35    |
| 11       | ELBOW-TUBE .....        | 1    | 86E60    |

Order by Part Number and Description. Reference Numbers are for your convenience only.

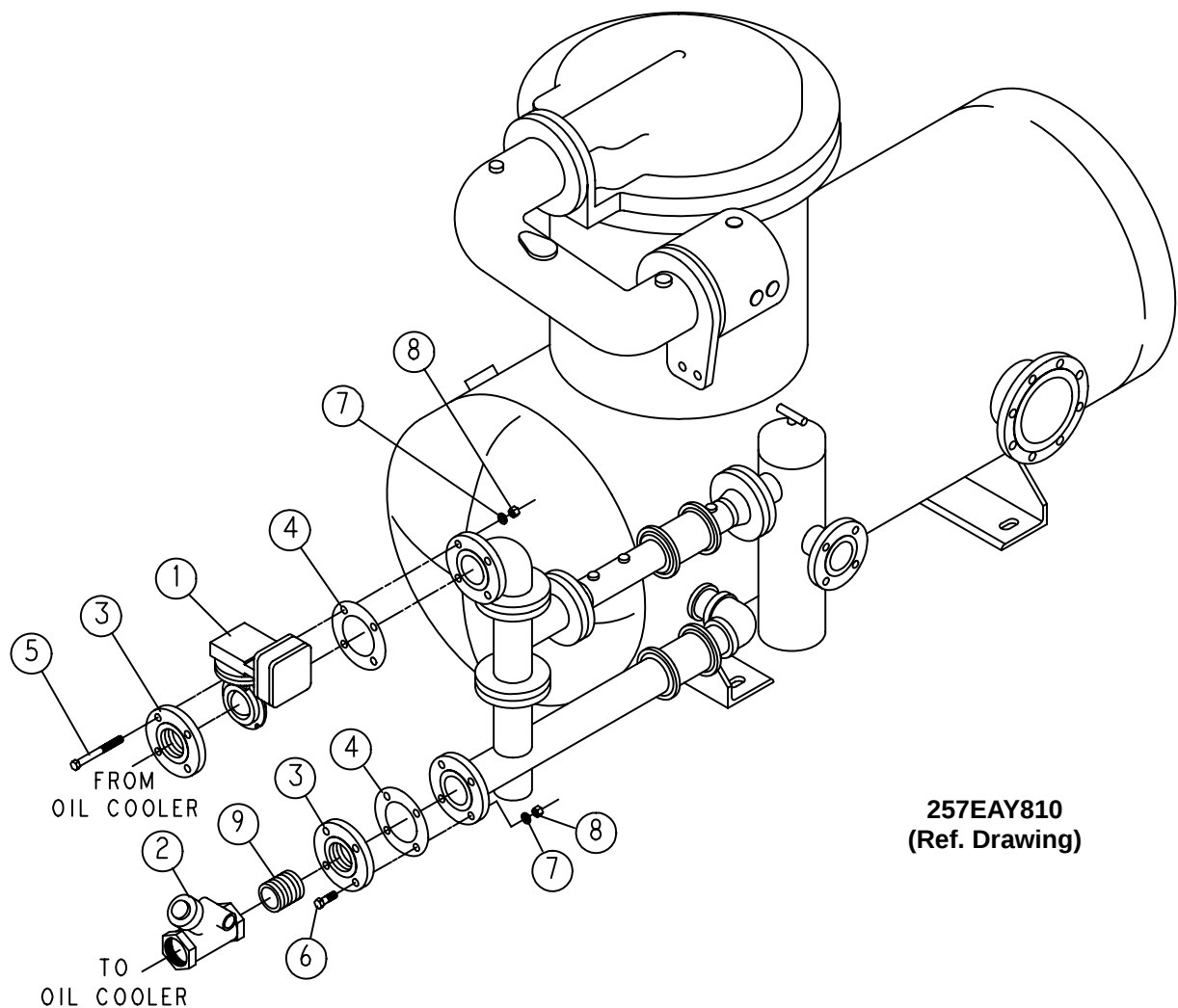


### COUPLING AND ADAPTOR

| Ref. No. | Name of Part            | Qty. | Part No.  |
|----------|-------------------------|------|-----------|
| 1        | ADAPTOR .....           | 1    | 200SSW170 |
| 2        | PLATE .....             | 2    | 201SSW247 |
| 3        | SCREW .....             | 16   | 75LM51    |
| 4        | SCREW .....             | 16   | 655EG130  |
| 5        | LOCKWASHER .....        | 16   | 95B8      |
| 6        | NUT .....               | 16   | 50B8      |
| 7*       | COUPLING-FLEXIBLE ..... | 1    | 2011977   |
| 8        | KEY-SQUARE .....        | 1    | 35L28     |

\* For Repair – Reference Number 7: Order (6) 2109118 Coupling Cushions.

Order by Part Number and Description. Reference Numbers are for your convenience only.

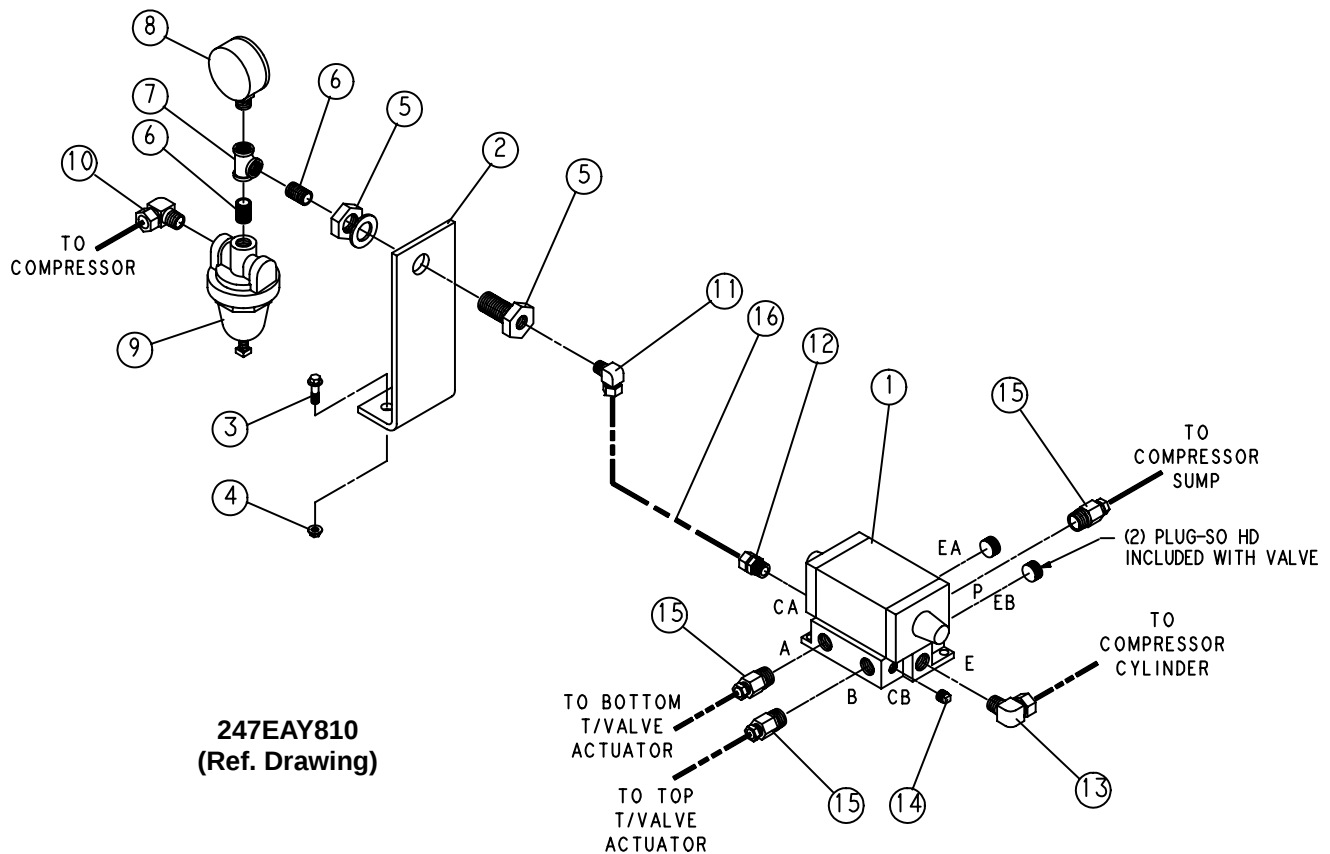


REMOTE COOLER FITTINGS

| Ref. No. | Name of Part          | Qty.     | Part No. |
|----------|-----------------------|----------|----------|
| 1        | VALVE-BUTTERFLY ..... | 1        | 90AR68   |
| 2        | VALVE-CHECK .....     | 1        | 90J132   |
| 3        | FLANGE-THREADED ..... | 2        | 64CA8    |
| 4        | GASKET .....          | 2        | 25C2722N |
| 5        | SCREW .....           | 4        | 655EF200 |
| 6        | SCREW .....           | 4        | 655EF120 |
| 7        | LOCKWASHER .....      | 8        | 95B7     |
| 8        | NUT .....             | 8        | 50B7     |
| 9        | NIPPLE .....          | 1        | 63M2G    |
| *        | ELBOW-TUBE .....      | 2        | 86E60    |
| *        | TUBE .....            | 9.16 Ft. | 85G3     |

\* Not shown.

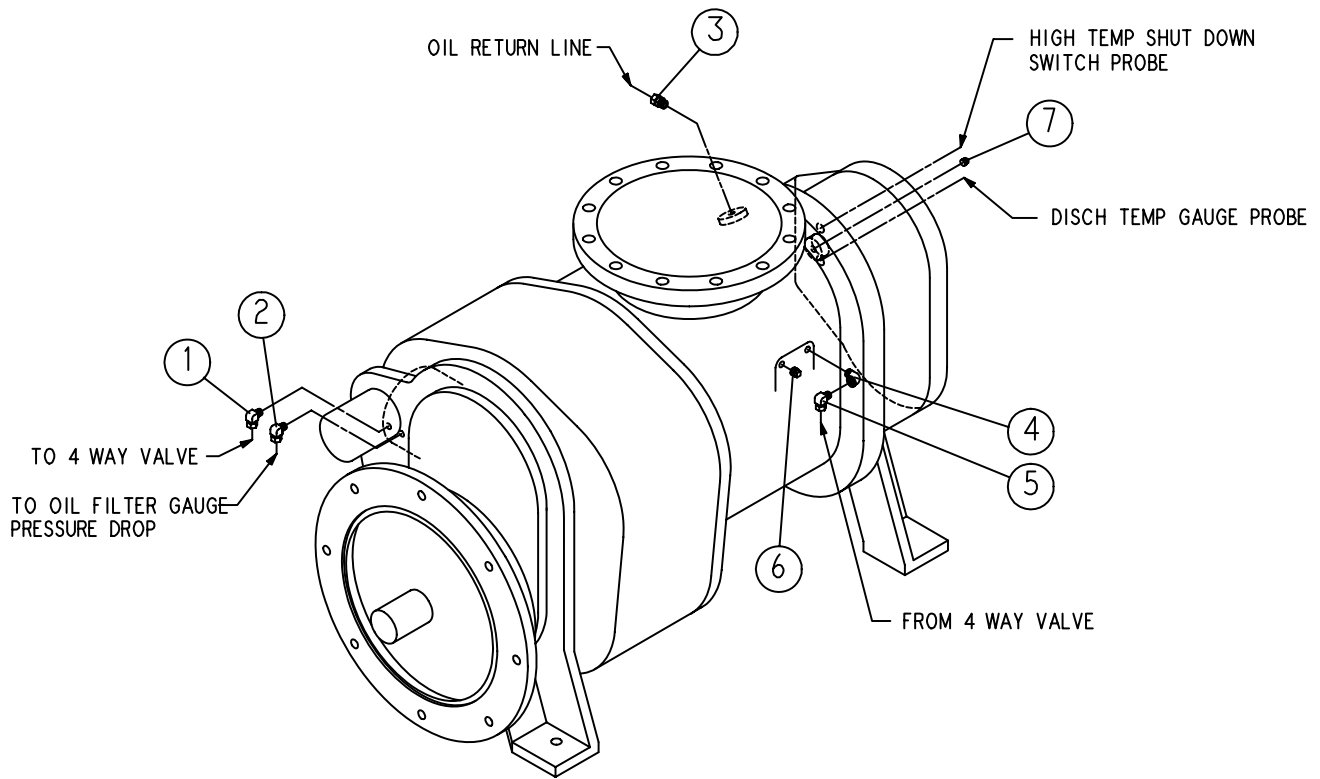
Order by Part Number and Description. Reference Numbers are for your convenience only.



### TURN VALVE ACTUATOR

| Ref. No. | Name of Part                  | Qty.  | Part No.  |
|----------|-------------------------------|-------|-----------|
| 1        | VALVE-AIR CONTROL .....       | 1     | 90AR427   |
| 2        | BRACKET .....                 | 1     | 201EAY141 |
| 3        | SCREW-FLANGED .....           | 2     | 75LM51    |
| 4        | NUT-FLANGED .....             | 2     | 50AW5     |
| 5        | COUPLING-PIPE .....           | 1     | 64EB368   |
| 6        | NIPPLE-PIPE .....             | 2     | 63D1G     |
| 7        | TEE-PIPE .....                | 1     | 64G3G     |
| 8        | GAUGE-PRESSURE .....          | 1     | 27P48     |
| 9        | VALVE-SUBTRACTIVE PILOT ..... | 1     | 2009398   |
| 10       | ELBOW-TUBE .....              | 1     | 86E64     |
| 11       | ELBOW-TUBE .....              | 1     | 86E60     |
| 12       | CONNECTOR-TUBE .....          | 1     | 86E3      |
| 13       | ELBOW-TUBE .....              | 1     | 86E65     |
| 14       | PLUG .....                    | 1     | 64AA6     |
| 15       | CONNECTOR-TUBE .....          | 3     | 86E10     |
| 16       | TUBE .....                    | 2 Ft. | 85G3      |

Order by Part Number and Description. Reference Numbers are for your convenience only.

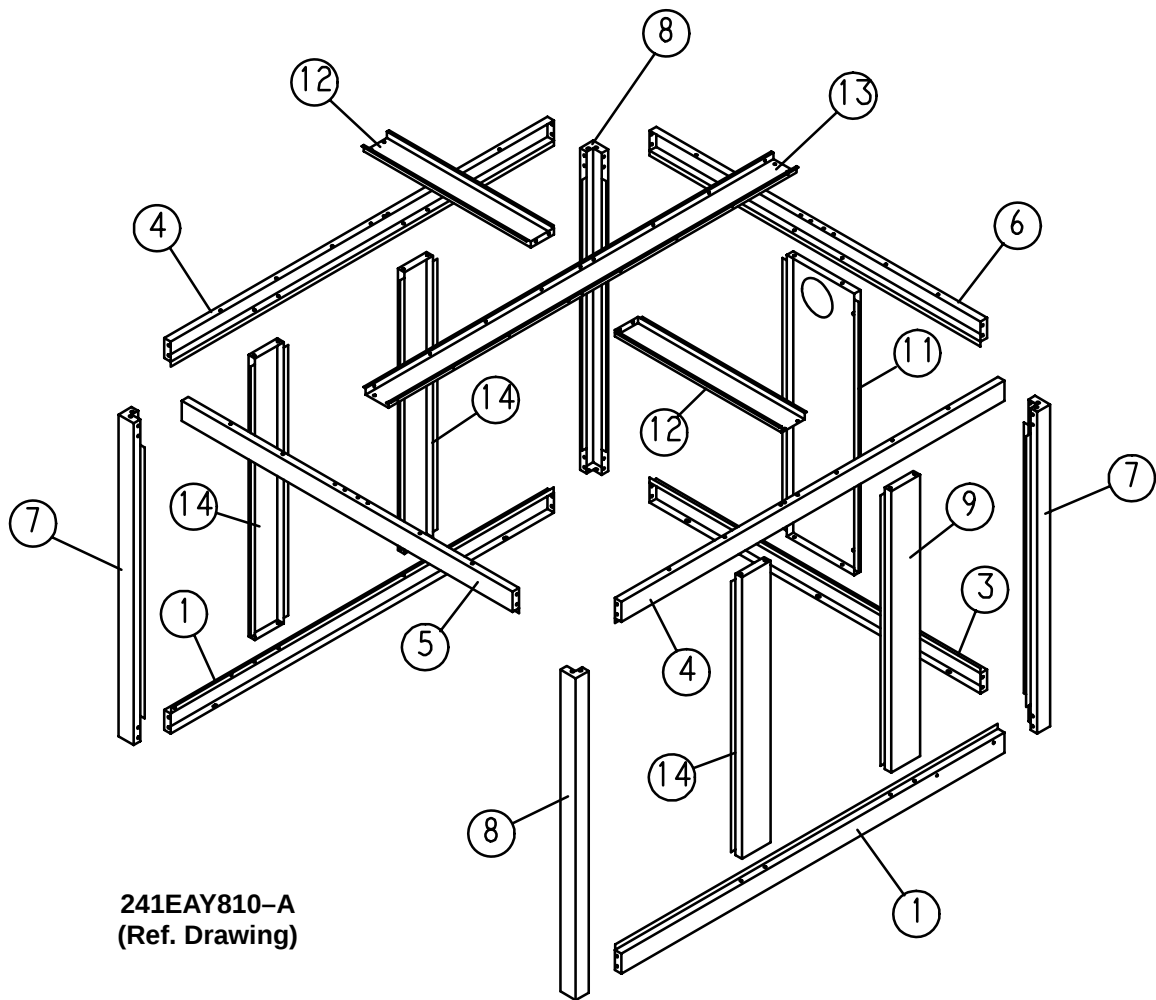


253EAY810-A  
(Ref. Drawing)

### COMPRESSOR FITTINGS

| Ref.<br>No. | Name of Part         | Qty. | Part No. |
|-------------|----------------------|------|----------|
| 1           | ELBOW .....          | 1    | 86E64    |
| 2           | ELBOW-TUBE .....     | 1    | 86E60    |
| 3           | CONNECTOR-TUBE ..... | 1    | 86E9     |
| 4           | ELBOW-PIPE ST .....  | 1    | 64D4G    |
| 5           | ELBOW-TUBE .....     | 1    | 86E65    |
| 6           | PLUG .....           | 1    | 64AC3    |
| 7           | PLUG .....           | 1    | 64AA5    |

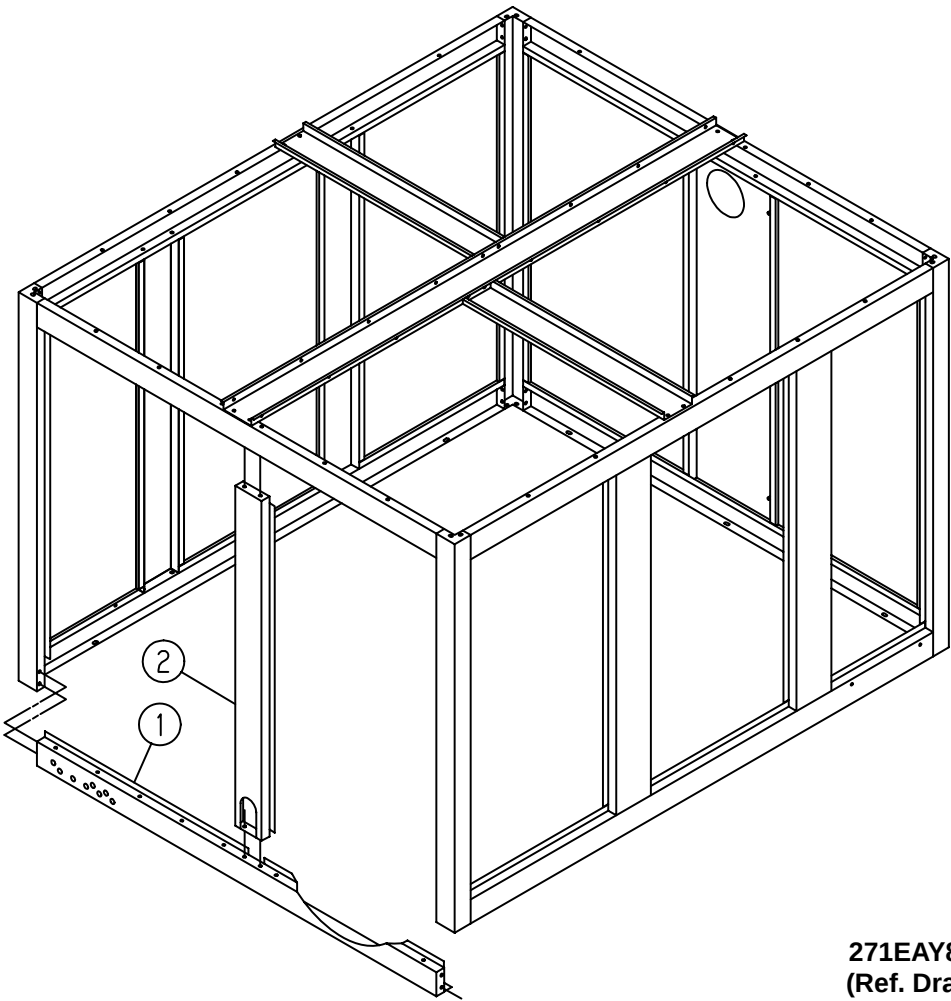
Order by Part Number and Description. Reference Numbers are for your convenience only.



# FRAME GROUP

| Ref. No. | Name of Part        | Qty. | Part No.  |
|----------|---------------------|------|-----------|
| 1        | FRAME .....         | 2    | 200EAY314 |
| 3        | FRAME .....         | 1    | 203EAY314 |
| 4        | FRAME .....         | 2    | 204EAY314 |
| 5        | FRAME .....         | 1    | 205EAY314 |
| 6        | FRAME .....         | 1    | 206EAY314 |
| 7        | POST .....          | 2    | 201EAY313 |
| 8        | POST .....          | 2    | 202EAY313 |
| 9        | BRACE .....         | 1    | 200EAY326 |
| 11       | BRACE .....         | 1    | 202EAY326 |
| 12       | BRACE .....         | 1    | 203EAY326 |
| 13       | BRACE-CHANNEL ..... | 1    | 204EAY326 |
| 14       | BRACE .....         | 3    | 205EAY326 |

Order by Part Number and Description. Reference Numbers are for your convenience only.

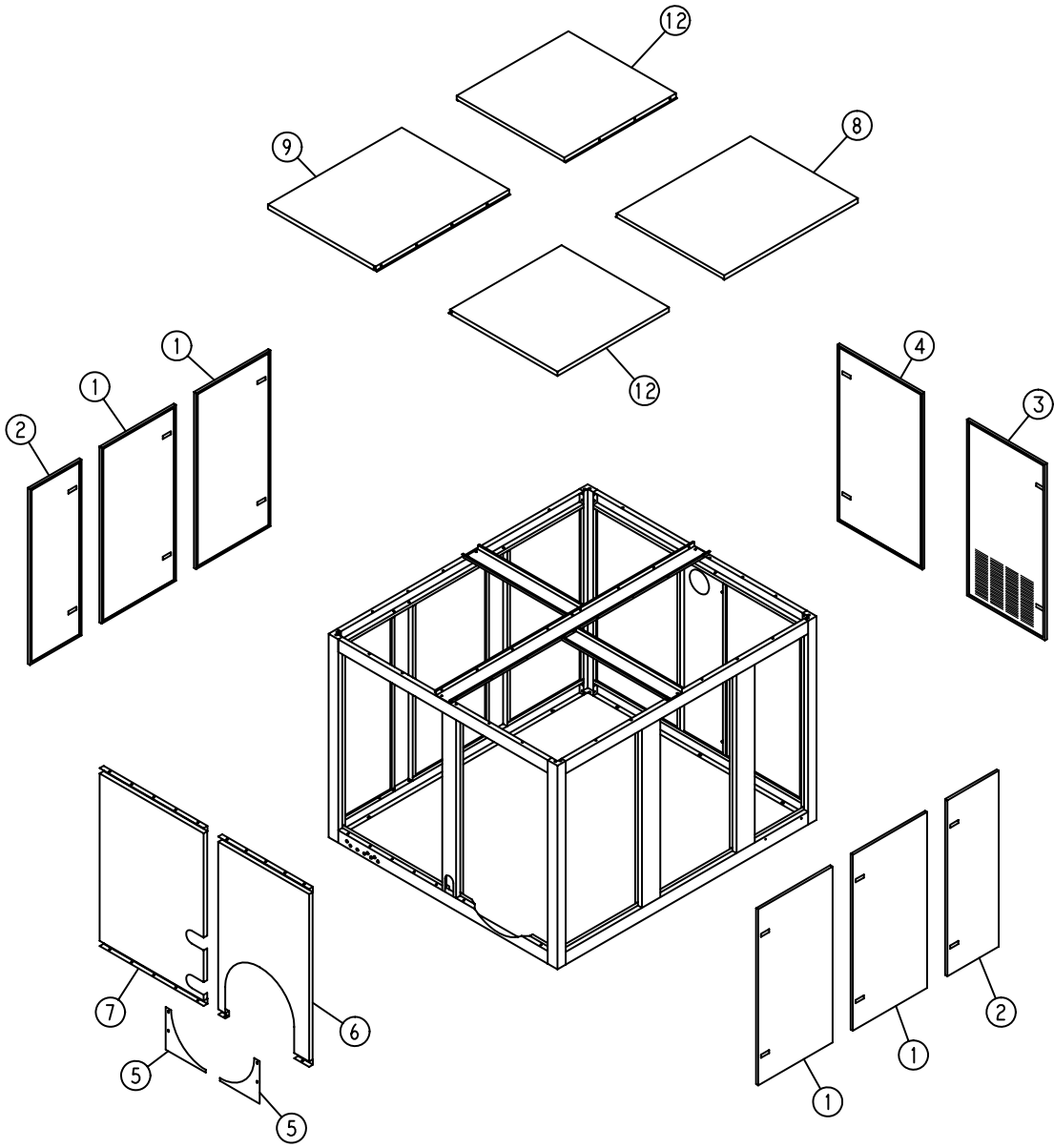


271EAY810-A  
(Ref. Drawing)

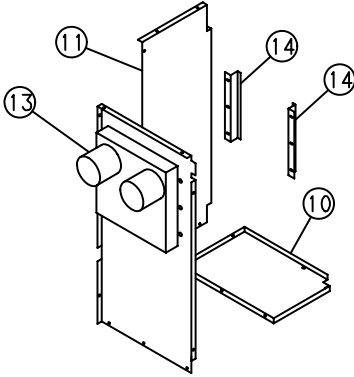
ENCLOSURE GROUP – PANELS

| Ref.<br>No. | Name of Part | Qty. | Part No.  |
|-------------|--------------|------|-----------|
| 1           | FRAME .....  | 1    | 202EAY314 |
| 2           | BRACE .....  | 1    | 201EAY326 |

ENCLOSURE GROUP



242EAY810-B  
(Ref. Drawing)



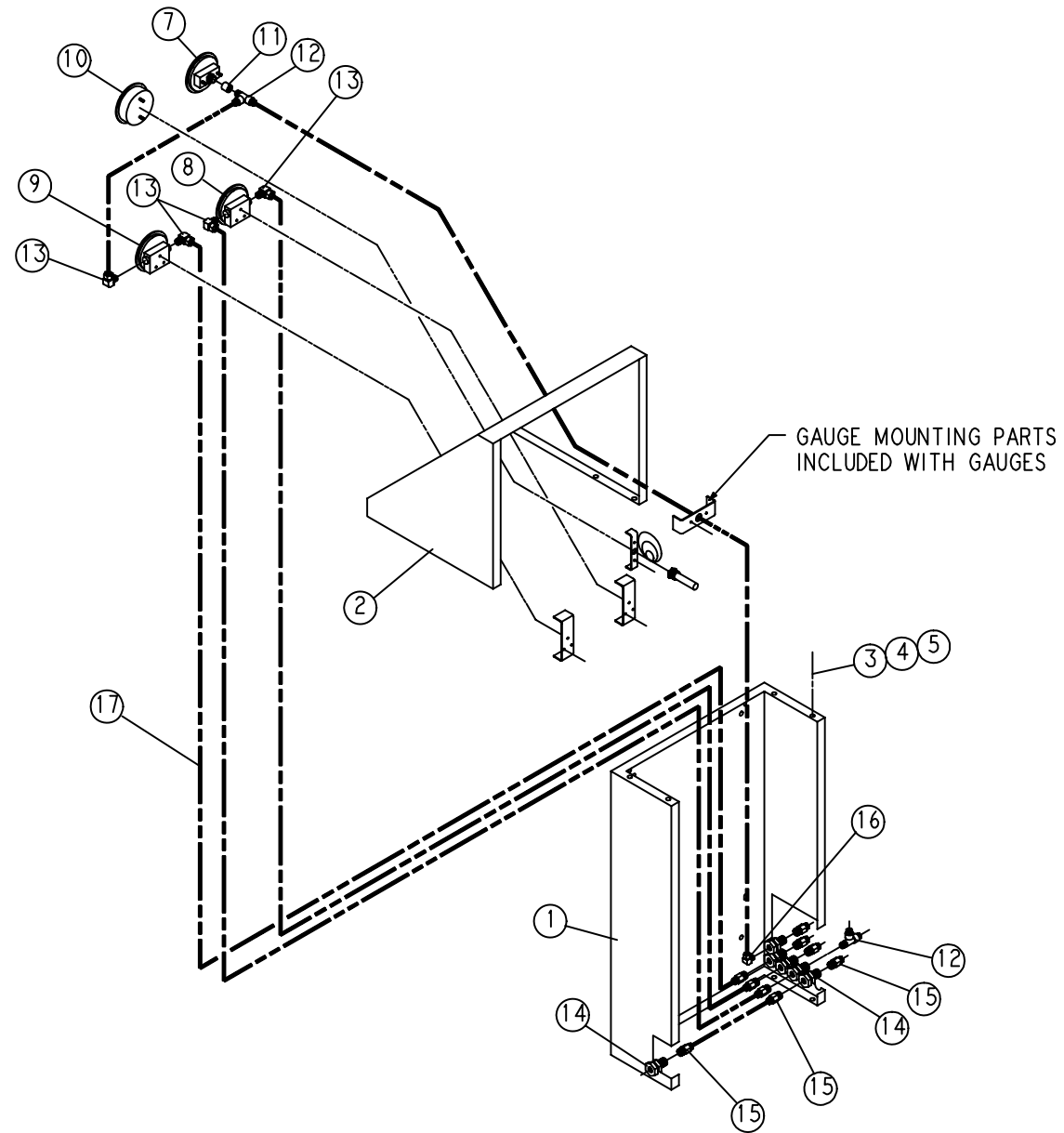
Order by part number and description. Reference numbers are for your convenience only.

# ENCLOSURE GROUP

| Ref.<br>No. | Name of Part     | Qty.   | Part No.  |
|-------------|------------------|--------|-----------|
| 1           | DOOR .....       | 4      | 200EAY334 |
| 2           | DOOR .....       | 2      | 201EAY334 |
| 3           | DOOR .....       | 1      | 202EAY334 |
| 4           | DOOR .....       | 1      | 203EAY334 |
| 5           | PANEL .....      | 2      | 200EAY216 |
| 6           | PANEL .....      | 1      | 202EAY216 |
| 7           | PANEL .....      | 1      | 203EAY216 |
| 8           | PANEL .....      | 1      | 204EAY216 |
| 9           | PANEL .....      | 1      | 205EAY216 |
| 10          | PANEL .....      | 1      | 206EAY216 |
| 11          | PANEL .....      | 1      | 207EAY216 |
| 12          | PANEL .....      | 2      | 212EAY216 |
| 13          | DUCT .....       | 1      | 200EAY856 |
| 14          | BRACKET .....    | 2      | 203ESV141 |
| *           | STRIP-FOAM ..... | 10 Ft. | 00800736  |

\* Not shown.

# MOUNTING GROUP



248EAY810  
(Ref. Drawing)

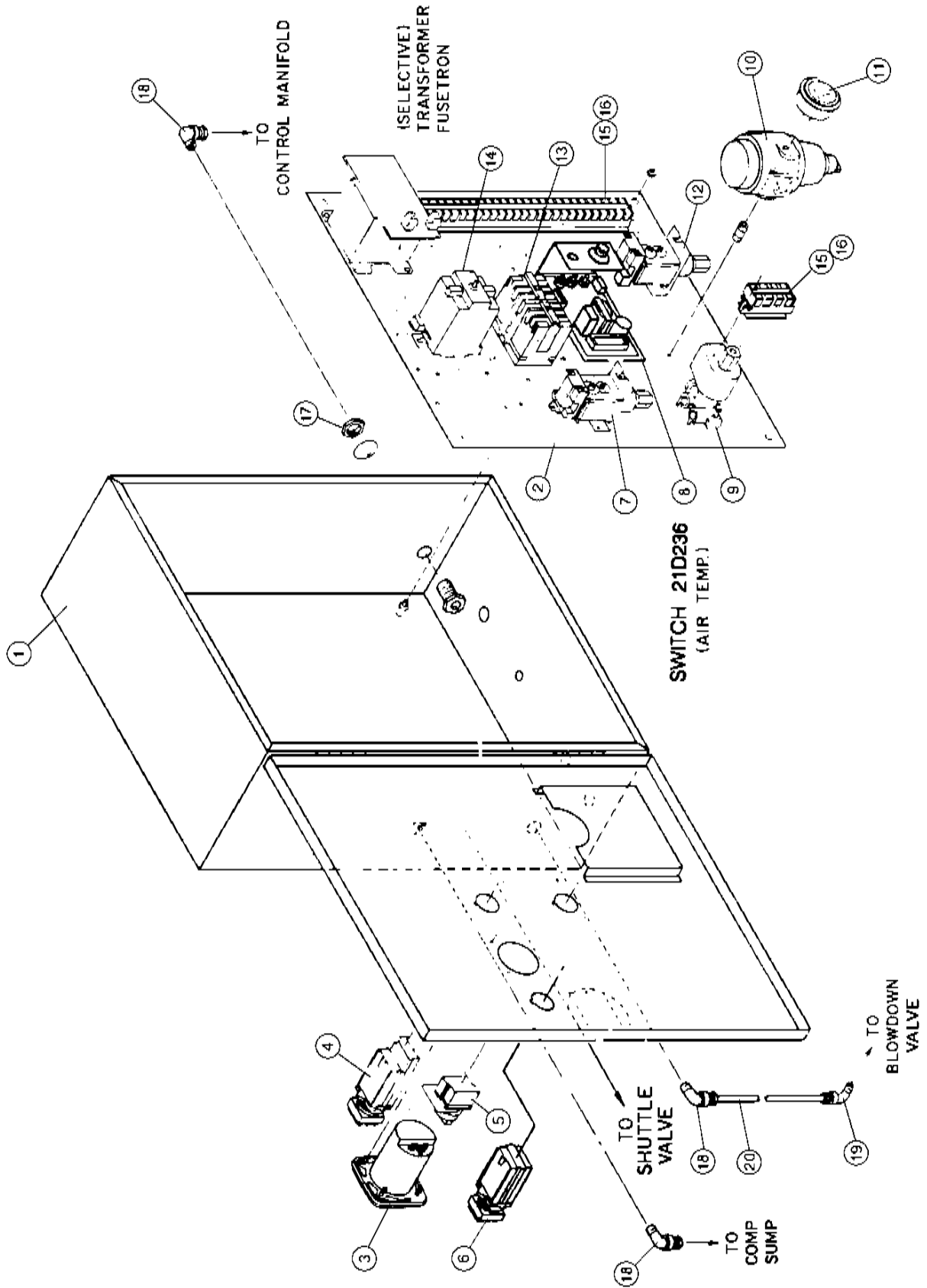
Order by part number and description. Reference numbers are for your convenience only.

# MOUNTING GROUP

| Ref.<br>No. | Name of Part           | Qty.   | Part No.  |
|-------------|------------------------|--------|-----------|
| 1           | SUPPORT-CONTROL .....  | 1      | 200ESV146 |
| 2           | PANEL-INSTRUMENT ..... | 1      | 201ESV386 |
| 3           | SCREW .....            | 4      | 655ED040  |
| 4           | LOCKWASHER .....       | 4      | 95B3      |
| 5           | NUT .....              | 4      | 50B3      |
| *           | DECAL .....            | 1      | 200ESV077 |
| 7           | GAUGE .....            | 1      | 2009562   |
| 8           | GAUGE-PRESSURE .....   | 1      | 27P77     |
| 9           | GAUGE .....            | 1      | 27P11     |
| 10          | THERMOMETER .....      | 1      | 93F2      |
| 11          | COUPLING-PIPE .....    | 1      | 64BK2     |
| 12          | TEE-TUBE .....         | 2      | 2009284   |
| 13          | ELBOW-TUBE .....       | 4      | 86E59     |
| 14          | COUPLING-PIPE .....    | 6      | 64EB368   |
| 15          | CONNECTOR-TUBE .....   | 9      | 86E4      |
| 16          | ELBOW-TUBE .....       | 1      | 86E60     |
| 17          | TUBE .....             | 17 Ft. | 85G3      |

\* Not shown.

# CONTROLLER ASSEMBLY



**CONTROL ITEMS  
(Selective)**

| Ref.<br>No. | Name of Part                                               | Constant Speed |           | Automatic Start–<br>Timed Stop |           |
|-------------|------------------------------------------------------------|----------------|-----------|--------------------------------|-----------|
|             |                                                            | Nema 1         | Nema 4    | Nema 1                         | Nema 4    |
| 1           | BOX–CONTROL .....                                          | 200ESO179      | 201ESO179 | 203EAQ179                      | 204EAQ179 |
| 2           | PANEL, ELECTRICAL .....                                    | 207ESO216      | 208ESO216 | 207ESO216                      | 208ESO216 |
| *           | BOOT, TRANSPARENT .....                                    | _____          | 24CA281   | _____                          | 24CA281   |
| *           | O–RING, BULKHEAD (4) .....                                 | _____          | 24A383    | _____                          | 24A383    |
| *           | GASKET, HOURMETER .....                                    | _____          | 200EAQ715 | _____                          | 200EAQ715 |
| *           | SEAL–PLUG (2) .....                                        | _____          | 24A509    | _____                          | 24A509    |
| 3           | METER–HOUR (60 Hz) .....                                   | 24CA1994       | 24CA1994  | 24CA1994                       | 24CA1994  |
| 3           | METER–HOUR (50 Hz) .....                                   | 24CA1995       | 24CA1995  | 24CA1995                       | 24CA1995  |
| 4           | SWITCH, START/STOP–RESET ...<br>(MOMENTARY) (See Note # 1) | 24CA1793       | 24CA1793  | _____                          | _____     |
| 4           | SWITCH, ON/OFF/RESET .....                                 | _____          | _____     | 24CA1817                       | 24CA1817  |
|             | (MAINTAINED) (See Note # 2)                                |                |           |                                |           |
| *           | LAMP, INDICATOR .....                                      | 24CA40         | 24CA40    | 24CA40                         | 24CA40    |
| *           | SWITCH, SELECTOR .....                                     | 24CA782        | 24CA782   | 24CA782                        | 24CA782   |
|             | (LOW DEMAND MODE)                                          |                |           |                                |           |
| 6           | LIGHT–PILOT (DUAL INDICATING) .                            | 24CA552        | 24CA552   | 24CA552                        | 24CA552   |
| *           | BOX–CONTROL (TIMER) .....                                  | _____          | _____     | _____                          | 200ESK179 |
| *           | GASKET (CONTROL BOX) .....                                 | _____          | _____     | _____                          | 202ESK715 |
| *           | COVER (TIMER) .....                                        | _____          | _____     | _____                          | 202ESK225 |
| *           | GASKET (TIMER COVER) .....                                 | _____          | _____     | _____                          | 203ESK715 |
| *           | TIMER .....                                                | _____          | _____     | 24A482                         | 24A482    |
| *           | RELAY .....                                                | 24CA541        | 24CA541   | 24CA541                        | 24CA541   |
| 7           | SWITCH–PRESSURE (Oil) .....                                | 88A301         | 88A301    | 88A301                         | 88A301    |
| 8           | SWITCH–TEMP .....                                          | 21D234         | 21D234    | 21D234                         | 21D234    |
| 9           | VALVE–SOLENOID .....                                       | 91B34          | 91B34     | 91B34                          | 91B34     |
| 10          | REGULATOR .....                                            | 88H26          | 88H26     | 88H26                          | 88H26     |
| 11          | GAUGE .....                                                | 27P104         | 27P104    | 27P104                         | 27P104    |
| 12          | SWITCH–PRESS (AIR) .....                                   | 88A299         | 88A299    | 88A299                         | 88A299    |
| 13          | RELAY, TIMING .....                                        | 24CA285        | 24CA285   | 24CA285                        | 24CA285   |
| 14          | RELAY, TIMING (WATER COOLED<br>UNITS ONLY) .....           | 24CA771        | 24CA771   | 24CA771                        | 24CA771   |
| 15          | BLOCK, END (2) .....                                       | 24CA924        | 24CA924   | 24CA924                        | 24CA924   |
| 16          | BLOCK, END (36) .....                                      | 24CA925        | 24CA925   | 24CA925                        | 24CA925   |
| 17          | COUPLING–PIPE (5) (BULKHEAD)                               | 64EB368        | 64EB368   | 64EB368                        | 64EB368   |
| 18          | ELBOW–TUBE (3) .....                                       | 86E60          | 86E60     | 86E60                          | 86E60     |
| 19          | ELBOW–TUBE (1) .....                                       | 86E59          | 86E59     | 86E59                          | 86E59     |
| 20          | TUBE (6 Ft.) .....                                         | 85K3           | 85K3      | 85K3                           | 85K3      |

\* Not shown on illustration

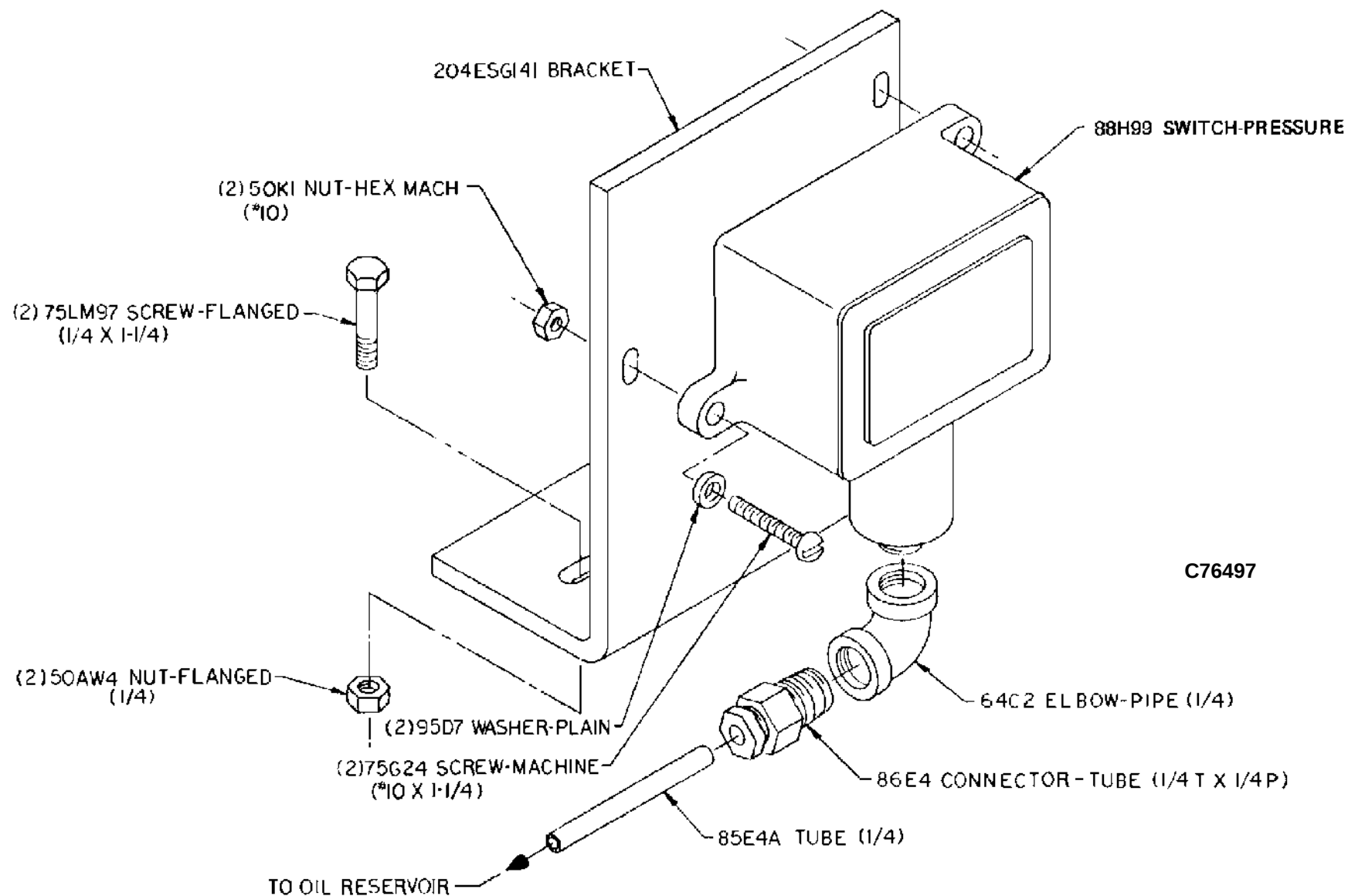
**LOW TORQUE CONTROL  
(Not Shown – See Note # 3)**

|                            |           |
|----------------------------|-----------|
| COMPLETE ASSEMBLY .....    | 202EAQ564 |
| MAJOR COMPONENTS           |           |
| VALVE–CONTROL (Air) .....  | 90AR127   |
| VALVE–CONTROL (Flow) ..... | 90J110    |
| VALVE, SHUTTLE .....       | 90AR107   |

**NOTES:**

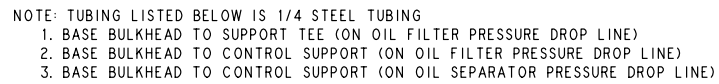
- Units equipped with manual starter use Stop/Reset Switch 24CA1478 with 24CA217 and 24CA1297 Contact Blocks.
- 24CA1817 Switch is "Maintained" ON, and "Momentary" RESET.
- Used only when specified on the Order Ticket (Optional Equipment). May be used with either NEMA 1 or NEMA 4 controls.

# OIL RESERVOIR PRESSURE SWITCH

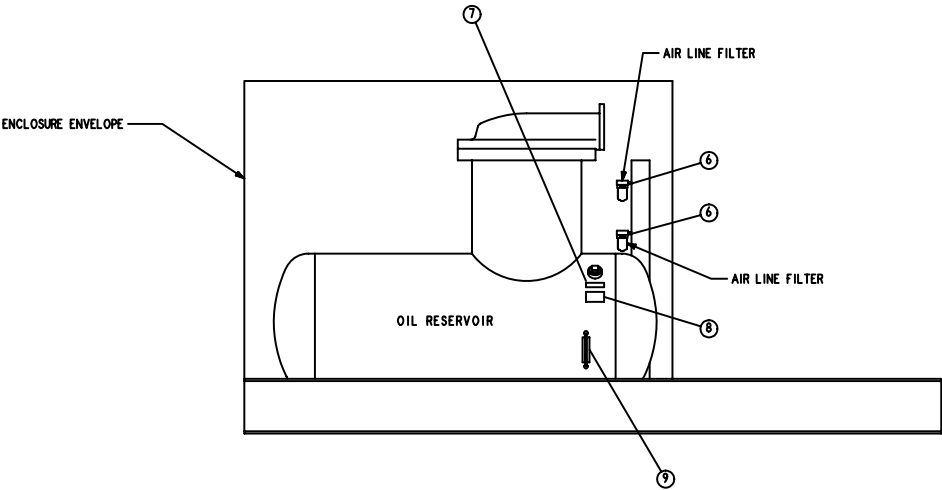


C76497

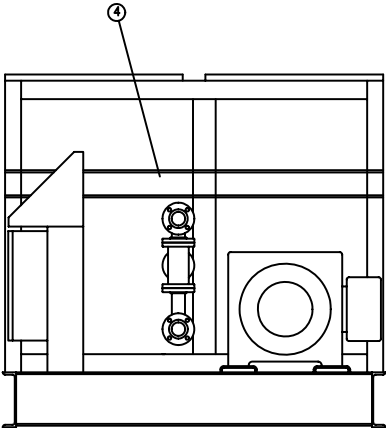
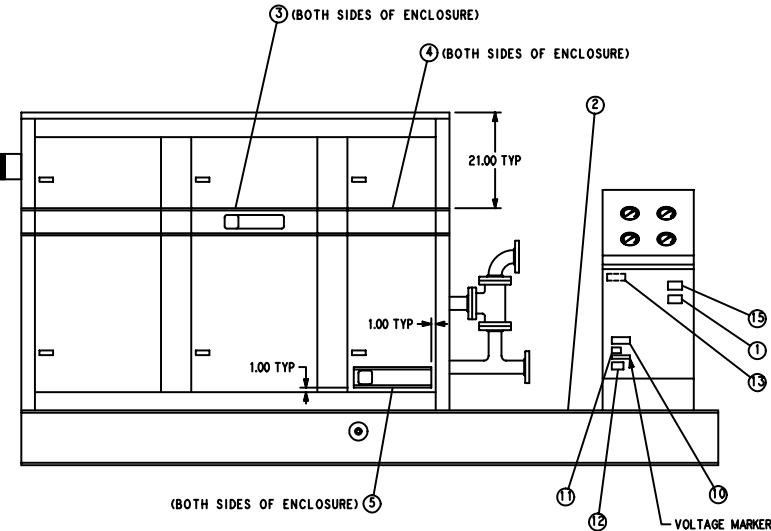
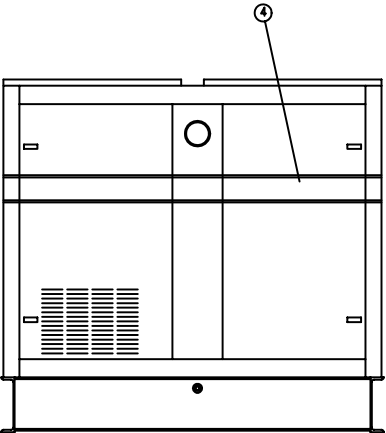
## 13-10-511 Page 53



IDENTIFICATION AND INSTRUCTION GROUP



256EAY810-B  
(Ref. Drawing)



Order by part number and description. Reference numbers for your convenience only.

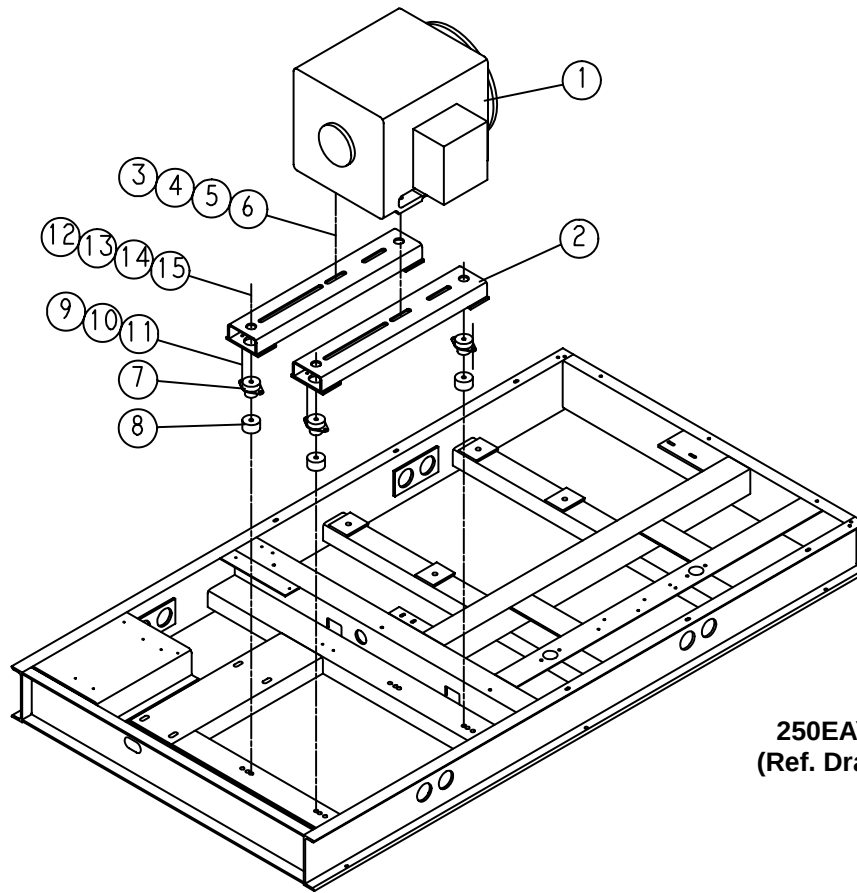
# IDENTIFICATION AND INSTRUCTION GROUP

| Ref.<br>No. | Name of Part                            | Qty. | Part No.  |
|-------------|-----------------------------------------|------|-----------|
| 1           | DECAL-MADE IN USA MADE IN THE USA ..... | 1    | 69F64     |
| 2           | RIVET .....                             | 4    | 70E13     |
| 3 *         | DECAL-SAVER .....                       | 1    | 201EAP077 |
| 4 *         | DECAL-RIBBON TRIM .....                 | 9    | 203ESO077 |
| 5 *         | DECAL-GD SYM/NAME .....                 | 2    | 204ESO077 |
| 6           | DECAL-DRAIN MOISTURE DAILY .....        | 2    | 205ESO077 |
| 7           | DECAL .....                             | 1    | 228EAQ077 |
| 8           | DECAL-CAUTION .....                     | 1    | 203ESF077 |
| 9           | PLATE-DATA .....                        | 1    | 200ESG454 |
| 10          | DECAL-DANGER .....                      | 1    | 209SPH077 |
| 11          | DECAL-WARNING .....                     | 1    | 202ESG077 |
| 12          | DECAL-WARNING-LIVE CIRCUIT .....        | 1    | 203ECH077 |
| 13          | DECAL-PARTS LIST & OPER/SERVICE .....   | 1    | 204EDE077 |
| 15          | DECAL-QUALITY WITHOUT QUESTION .....    | 1    | 200EAQ077 |
| 16          | DECAL-INSIDE CONTROL BOX .....          | 1    | 251EAQ077 |
| **          | TAG-INSTRUCTION .....                   | 1    | 314EAQ077 |

\* Both sides of enclosure.

\*\* Not shown on illustration.

Order by Part Number and Description. Reference Numbers are for your convenience only.



**250EAY810**  
(Ref. Drawing)

### MOTOR MOUNTING GROUP

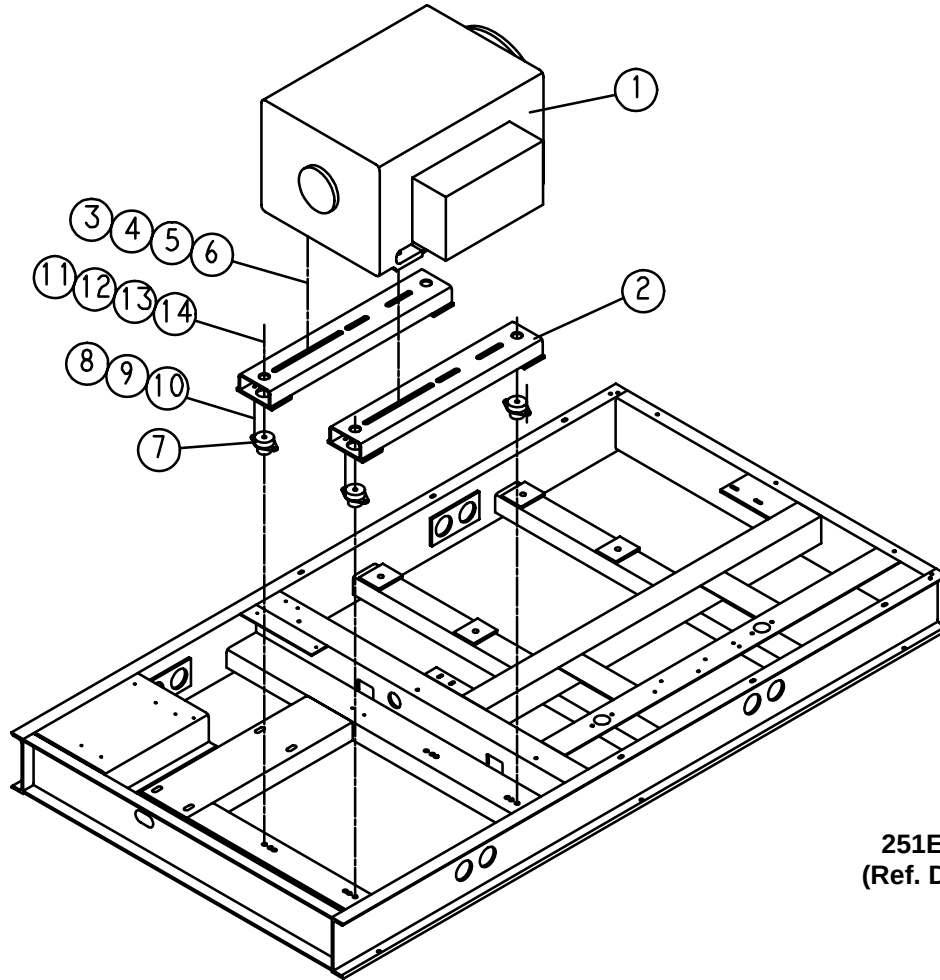
| Ref.<br>No. | Name of Part             | Qty. | Part No.  |
|-------------|--------------------------|------|-----------|
| 1           | MOTOR .....              | 1    | *         |
| 2           | RAIL .....               | 2    | 201EAY095 |
| 3           | SCREW .....              | 4    | 655EG110  |
| 4           | WASHER .....             | 8    | 95A8      |
| 5           | LOCKWASHER .....         | 4    | 95B8      |
| 6           | NUT .....                | 4    | 50B8      |
| 7           | ISOLATOR-VIBRATION ..... | 4    | 49C48     |
| 8 **        | SPACER .....             | 4    | 200ESV144 |
| 9           | SCREW .....              | 8    | 655EE060  |
| 10          | LOCKWASHER .....         | 8    | 95B5      |
| 11          | NUT .....                | 8    | 50B5      |
| 12 ***      | SCREW .....              | 4    | 655EG260  |
| 13          | WASHER .....             | 8    | 95A8      |
| 14          | LOCKWASHER .....         | 4    | 95B8      |
| 15          | NUT .....                | 4    | 50B8      |

\* Selective item. See page 58.

\*\* Not used on 500 HP 4160V ODP Motor.

\*\*\* 655EG200 used on 500 HP 4160V ODP Motor.

Order by Part Number and Description. Reference Numbers are for your convenience only.



251EAY810  
(Ref. Drawing)

**MOTOR MOUNTING GROUP – 500 HP – 4160 VOLT**

| Ref.<br>No. | Name of Part             | Qty. | Part No.  |
|-------------|--------------------------|------|-----------|
| 1           | MOTOR .....              | 1    | 24CA2889  |
| 2           | RAIL .....               | 2    | 201EAY095 |
| 3           | SCREW .....              | 4    | 655EG110  |
| 4           | WASHER .....             | 8    | 95A8      |
| 5           | LOCKWASHER .....         | 4    | 95B8      |
| 6           | NUT .....                | 4    | 50B8      |
| 7           | ISOLATOR-VIBRATION ..... | 4    | 49C48     |
| 8           | SCREW .....              | 8    | 655EE060  |
| 9           | LOCKWASHER .....         | 8    | 95B5      |
| 10          | NUT .....                | 8    | 50B5      |
| 11          | SCREW .....              | 4    | 655EG200  |
| 12          | WASHER .....             | 8    | 95A8      |
| 13          | LOCKWASHER .....         | 4    | 95B8      |
| 14          | NUT .....                | 4    | 50B8      |

## MOTOR SELECTIVES

(From page 56)

|                                     |          |
|-------------------------------------|----------|
| 350 HP, 460 VOLT, ODP, 60 HZ .....  | 24CA786  |
| 350 HP, 2300 VOLT, ODP, 60 HZ ..... | 24CA787  |
| 350 HP, 4000 VOLT, ODP, 60 HZ ..... | 24CA847  |
| 350 HP, 4160 VOLT, ODP, 60 HZ ..... | 24CA849  |
| 400 HP, 460 VOLT, ODP, 60 HZ .....  | 24CA788  |
| 400 HP, 2300 VOLT, ODP, 60 HZ ..... | 24CA789  |
| 400 HP, 4000 VOLT, ODP, 60 HZ ..... | 24CA1313 |
| 500 HP, 460 VOLT, ODP, 60 HZ .....  | 24CA791  |
| 500 HP, 2300 VOLT, ODP, 60 HZ ..... | 24CA1314 |
| 500 HP, 4000 VOLT, ODP, 60 HZ ..... | 24CA1314 |
| 500 HP, 4160 VOLT, ODP, 60 HZ ..... | 24CA2889 |

## REPAIR KITS

| Name of Part                                                              | Qty.  | Part No. |
|---------------------------------------------------------------------------|-------|----------|
| <b>ROUTINE MAINTENANCE KIT – HEAVY DUTY AIR FILTER</b>                    |       |          |
| (Includes next five items) .....                                          |       | EAY68417 |
| AIR FILTER .....                                                          | 2     | 2009590  |
| OIL FILTER .....                                                          | 3     | 26A43    |
| ELEMENT, OIL FILTER .....                                                 | 3     | 2109086  |
| O-RING, OIL FILTER .....                                                  | 1     | 25BC140  |
| INDICATOR-ASSEMBLY .....                                                  | 1     | 2109125  |
| <b>SEPARATOR KIT (Includes next six items) .....</b>                      |       |          |
| OIL SEPARATOR .....                                                       | 1     | 55B30    |
| TUBE .....                                                                | 3 FT. | 85G3     |
| PLUG, PIPE .....                                                          | 1     | 64AA6    |
| UNION, TUBE .....                                                         | 1     | 86E48    |
| CONNECTOR, TUBE .....                                                     | 1     | 86E4     |
| GASKET .....                                                              | 1     | 25C807N  |
| <b>PNEUMATIC CONTROLS &amp; GAUGES (Includes next eleven items) .....</b> |       |          |
| PRESSURE REGULATOR .....                                                  | 1     | 88H26    |
| GAUGE .....                                                               | 1     | 2009562  |
| THERMOMETER .....                                                         | 1     | 93F2     |
| PRESSURE GAUGE .....                                                      | 1     | 27P45    |
| ELEMENT .....                                                             | 2     | 2109620  |
| O-RING .....                                                              | 2     | 2116000  |
| CONTROL VALVE .....                                                       | 1     | 90AR107  |
| CONTROL VALVE .....                                                       | 1     | 90AR262  |
| AIR CONTROL VALVE .....                                                   | 1     | 90AR114  |
| AIR CONTROL VALVE .....                                                   | 1     | 90AR427  |
| SUBTRACTIVE PILOT VALVE .....                                             | 2     | 2009398  |
| <b>ELECTRICAL CONTROL KIT (Includes next seven items) .....</b>           |       |          |
| PRESSURE SWITCH .....                                                     | 1     | 88A299   |
| RELAY .....                                                               | 1     | 24CA285  |
| PRESSURE SWITCH .....                                                     | 1     | 88A301   |
| SOLENOID VALVE .....                                                      | 1     | 91B34    |
| TEMPERATURE SWITCH .....                                                  | 1     | 21D234   |
| PRESSURE SWITCH .....                                                     | 1     | 88H99    |
| ELECTRICAL PROBE .....                                                    | 2     | 21D235   |
| <b>DRIVE COUPLING KIT (Includes next item) .....</b>                      |       |          |
| CUSHION, COUPLING .....                                                   | 6     | 2109118  |
| <b>LUBRICANT (AEON 9000 SP)</b>                                           |       |          |
| 5 GALLON PAIL .....                                                       |       | 28H109   |
| 55 GALLON DRUM .....                                                      |       | 28H110   |
| <b>TOUCH-UP PAINT</b>                                                     |       |          |
| 5 GALLON PAIL .....                                                       |       | 28H76    |
| 1 GALLON CAN .....                                                        |       | 28H84    |
| 1 QUART CAN .....                                                         |       | 28H83    |

## REPAIR KITS (Continued)

| Name of Part                                             | Qty. | Part No.   |
|----------------------------------------------------------|------|------------|
| PERIODIC OVERHAUL KIT (Includes next twelve items) ..... |      | 202SSY6013 |
| GASKET KIT (See below) .....                             | 1    | 200SSY6007 |
| ROLLER BEARING .....                                     | 1    | 12BA109    |
| ROLLER BEARING .....                                     | 1    | 12BA107    |
| ROLLER BEARING .....                                     | 1    | 12BA108    |
| KEY .....                                                | 1    | 35L20      |
| ROLLER BEARING .....                                     | 1    | 12BA47     |
| ROLLER BEARING .....                                     | 2    | 12BA37     |
| KEY .....                                                | 1    | 35L14      |
| OIL SEAL .....                                           | 1    | 60DD695    |
| OIL SEAL .....                                           | 1    | 60DD694    |
| BEARING .....                                            | 2    | 12J43      |
| KEY-WOODRUFF .....                                       | 1    | 35D2       |
| GASKET KIT (Includes next sixteen items) .....           |      | 200SSY6007 |
| GASKET .....                                             | 1    | 208SSY715N |
| GASKET-RING .....                                        | 5    | 25F13      |
| SHIM .....                                               | 1    | 77H65      |
| GASKET .....                                             | 1    | 201SSY715N |
| GASKET .....                                             | 1    | 200SSY715N |
| O-RING .....                                             | 1    | 25BC109    |
| SHIM .....                                               | 8    | 203SSY732  |
| SHIM .....                                               | 16   | 204SSY732  |
| SHIM .....                                               | 16   | 205SSY732  |
| SHIM .....                                               | 8    | 207SSY732  |
| SHIM .....                                               | 8    | 208SSY732  |
| O-RING .....                                             | 1    | 54C210     |
| O-RING .....                                             | 1    | 25BC114    |
| GASKET .....                                             | 1    | 25BC138N   |
| PACKING-RING .....                                       | 1    | 60AM46     |
| SEAL-FASTENER .....                                      | 1    | 60DD65     |
| PERIODIC MAINTENANCE (Includes next eight items) .....   |      | EAY68806   |
| ELEMENT, MIXING VALVE .....                              | 2    | 2109366    |
| O-RING, ELEMENT .....                                    | 2    | 25BC164    |
| GASKET, HOUSING .....                                    | 1    | 2010695    |
| VALVE-DISC .....                                         | 1    | 200SSW067  |
| SPRING, INLET VALVE .....                                | 1    | 78A365     |
| SPRING, VALVE PISTON .....                               | 1    | 78A366     |
| RING-PISTON .....                                        | 2    | 65A319     |
| VALVE-DISC .....                                         | 1    | 200SSY067  |

## REPAIR KITS (Continued)

| Name of Part                                           | Qty. | Part No.   |
|--------------------------------------------------------|------|------------|
| OIL SEAL KIT (Includes next ten items) .....           |      | 201SSY6013 |
| OIL SEAL .....                                         | 1    | 60DD695    |
| OIL SEAL .....                                         | 1    | 60DD694    |
| CHECK VALVE .....                                      | 1    | 90AR923    |
| O-RING .....                                           | 1    | 25BC109    |
| SHIM .....                                             | 8    | 203SSY732  |
| SHIM .....                                             | 16   | 204SSY732  |
| SHIM .....                                             | 16   | 205SSY732  |
| SHIM .....                                             | 8    | 207SSY732  |
| SHIM .....                                             | 8    | 208SSY732  |
| WEAR SLEEVE .....                                      | 1    | 200SSY1458 |
| WEAR SLEEVE INSTALLATION AND REMOVAL KIT .....         | 1    | 200SSY4017 |
| PULLER .....                                           | 1    | 200SSY219  |
| PLATE-PULLER .....                                     | 1    | 200SSY340  |
| SCREW .....                                            | 1    | 655EE030   |
| SCREW .....                                            | 1    | 655EE120   |
| SCREW .....                                            | 2    | 75D179     |
| GUIDE .....                                            | 1    | 200SSY450  |
| TOOL .....                                             | 1    | 200SSY074  |
| WATER TEMPERATURE REGULATOR (OPTIONAL) .....           |      | EAU77011   |
| MAGNETIC WATER SHUTOFF VALVE – NEMA 1 (OPTIONAL) ..... |      | EAU77015   |
| MAGNETIC WATER SHUTOFF VALVE – NEMA 4 (OPTIONAL) ..... |      | EAU77016   |

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