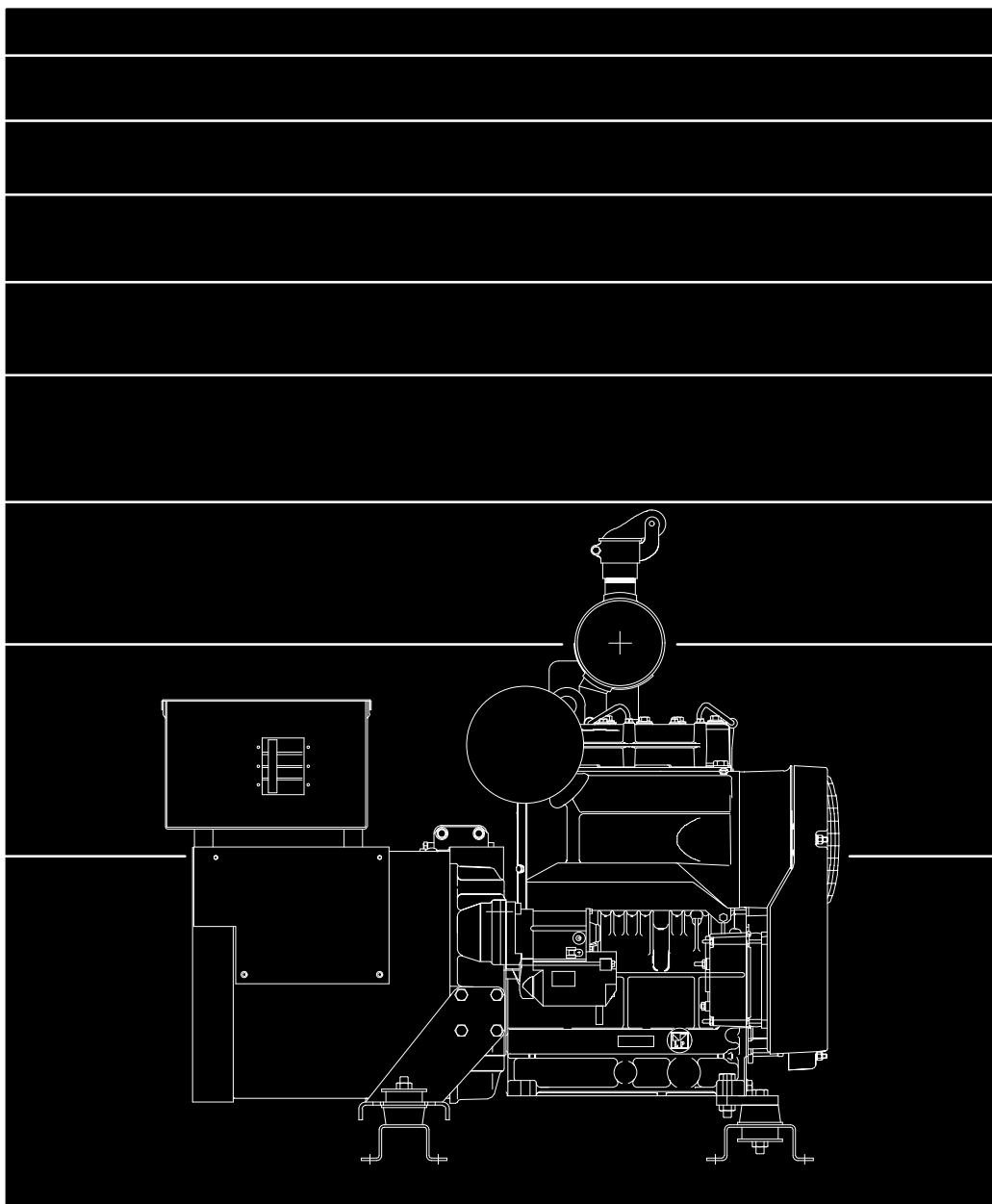




# Parts Catalog

DNAA DNAB

## Generator Set



Printed in U.S.A.

967-0200B  
12-99 (Spec A-B)  
Replaces 967-0200 (Spec A) 4-97

## MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

---

MODEL AND SPEC NO.

---

SERIAL NO.

---

DIGITAL CONTROL SOFTWARE VERSION  
AND DATE (IF APPLICABLE)

## SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



*This symbol warns of immediate hazards which will result in severe personal injury or death.*



*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.*



*This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.*

## PRODUCT SAFETY PRECAUTIONS



***Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.***



***Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.***



***Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!***



***Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!***

## Introduction

This parts catalog applies to the standard generator sets listed below. Parts are arranged in groups of related items and each illustrated part is defined by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front ) of the set.

**Generator Set Data Table**

| <b>Model Identification</b> | <b>Watts</b> | <b>Volts</b>  | <b>Hertz</b> | <b>Wire</b> | <b>Phase</b> | <b>Battery Voltage</b> |
|-----------------------------|--------------|---------------|--------------|-------------|--------------|------------------------|
| 4.2DNAA/*                   | 4200         | Reconnectible | 50           | 4/12        | 1/3          | 12V                    |
| 5.0DNAA/*                   | 5000         | Reconnectible | 60           | 4/12        | 1/3          | 12V                    |
| 6.0DNAB/*                   | 6000         | Reconnectible | 50           | 4/12        | 1/3          | 12V                    |
| 7.5DNAB/*                   | 7500         | Reconnectible | 60           | 4/12        | 1/3          | 12V                    |

\* – The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes



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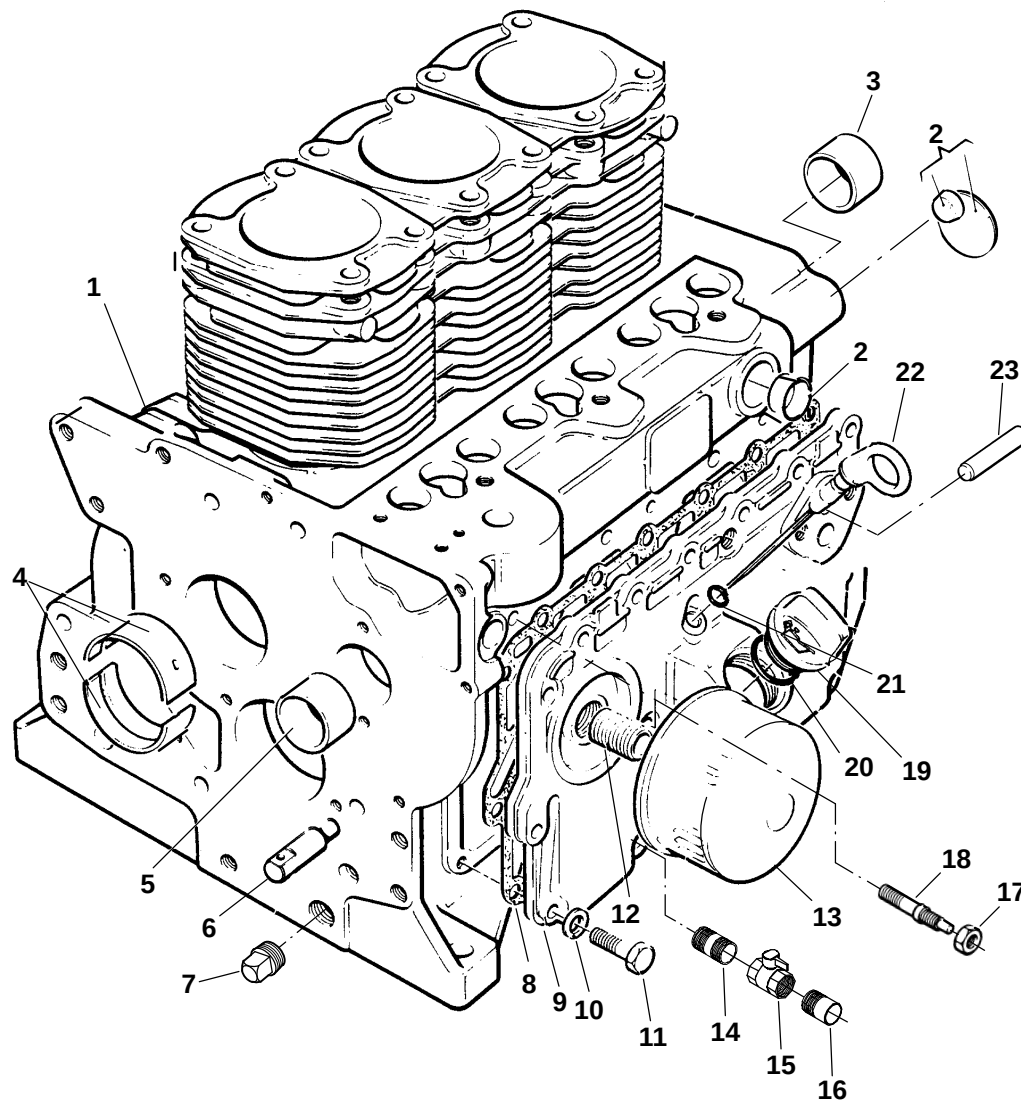
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## Cylinder Block

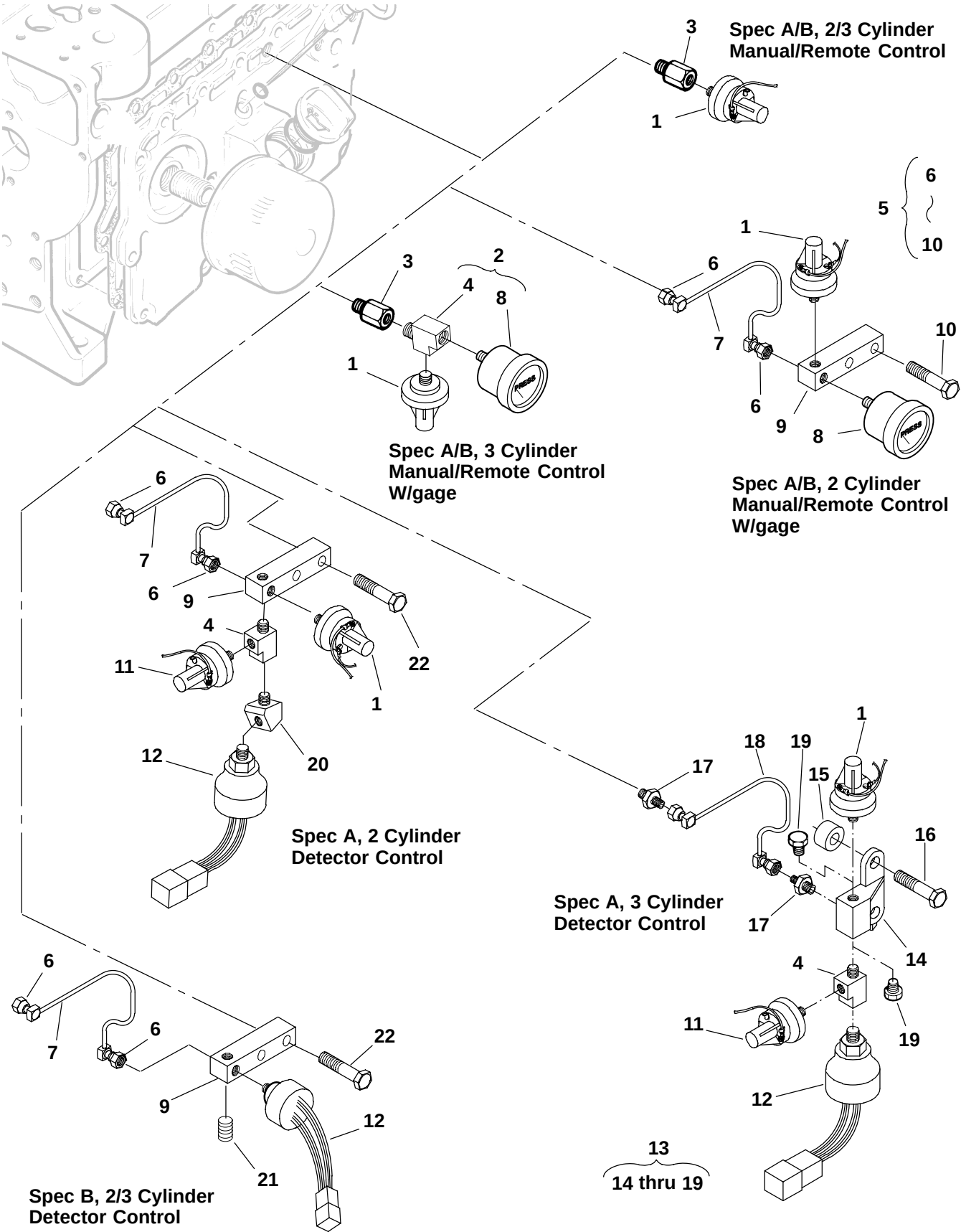


## Cylinder Block

| REF NO.     | PART NO. | QTY USED | PART DESCRIPTION               | REF NO.  | PART NO. | QTY USED | PART DESCRIPTION                |
|-------------|----------|----------|--------------------------------|----------|----------|----------|---------------------------------|
|             |          |          | Engine, Replacement            | 9        |          |          | Cover, Side (Includes Bearing)  |
|             |          |          | Spec A                         | 186-6401 | 1        |          | DNAA                            |
|             |          |          | DNAA                           | 186-6402 | 1        |          | DNAB                            |
| 100-3396-03 | 1        |          | W/Mechanical                   | 10       |          |          | Washer (M6)                     |
|             |          |          | Governor                       | 186-6015 | 11       |          | DNAA                            |
| 100-3396-04 | 1        |          | W/Electronic Governor          | 186-6015 | 15       |          | DNAB                            |
|             |          |          | DNAB                           | 11       |          |          | Bolt, (M6 x 1 x 25mm)           |
| 100-3397-03 | 1        |          | W/Mechanical                   | 186-6014 | 9        |          | DNAA                            |
|             |          |          | Governor                       | 186-6014 | 12       |          | DNAB                            |
| 100-3397-04 | 1        |          | W/Electronic Governor          | 12       | 186-6021 | 1        | Adapter, Oil Filter             |
|             |          |          | Begin Spec B                   | 13       | 186-6025 | 1        | Filter, Oil                     |
|             |          |          | DNAA                           | 14       | 186-6614 | 1        | Nipple, Pipe (1/2" x 1-3/4")    |
| 100-3536-03 | 1        |          | W/Mechanical                   | 15       | 186-6613 | 1        | Valve, Ball (1/2")              |
|             |          |          | Governor                       | 16       | 186-6629 | 1        | Nipple (1/2")                   |
| 100-3536-04 | 1        |          | W/Electronic Governor          | 17       |          |          | Nut (M6 x 1)                    |
|             |          |          | DNAB                           | 186-6209 | 2        |          | DNAA                            |
| 100-3537-03 | 1        |          | W/Mechanical                   | 186-6209 | 3        |          | DNAB                            |
|             |          |          | Governor                       | 18       |          |          | Stud                            |
| 100-3537-04 | 1        |          | W/Electronic Governor          | 186-6250 | 2        |          | DNAA                            |
| 1           |          |          | Block Assy, Cylinder (Includes | 186-6250 | 3        |          | DNAB                            |
|             |          |          | Parts Marked *)                | 19       | 186-6023 | 1        | Cap, Oil Fill                   |
|             | 186-6500 | 1        | DNAA                           | 20       | 186-6024 | 1        | O'Ring                          |
|             | 186-6501 | 1        | DNAB                           | 21       | 186-6029 | 1        | O'Ring                          |
| 2           | 186-6502 | 1        | *Kit, Expansion Plug           | 22       |          |          | Dipstick, Oil (Includes O'Ring) |
| 3           | 186-6281 | 1        | Bearing                        | 186-6026 | 1        |          | DNAA                            |
| 4           |          |          | *Bearing, Gear End Main        | 186-6410 | 1        |          | DNAB                            |
|             | 186-6003 | 1        | Standard                       | 23       | 186-6503 | 1        | Bearing, Fuel Lift Pump Push    |
|             | 186-6004 | 1        | 0.25mm Undersize               |          |          |          | Rod                             |
|             | 186-6005 | 1        | 0.50mm Undersize               |          |          |          |                                 |
| 5           | 186-6006 | 1        | *Bearing, Gear End Camshaft    |          |          |          |                                 |
| 6           | 186-6008 | 2        | *Support, Governor Pivot       |          |          |          |                                 |
| 7           | 186-6007 | 1        | *Plug, 3/8"                    |          |          |          |                                 |
| 8           |          |          | Gasket, Side Cover             |          |          |          |                                 |
|             | 186-6010 | 1        | DNAA                           |          |          |          |                                 |
|             | 186-6405 | 1        | DNAB                           |          |          |          |                                 |

\* – Parts Included in Cylinder Block Assy.

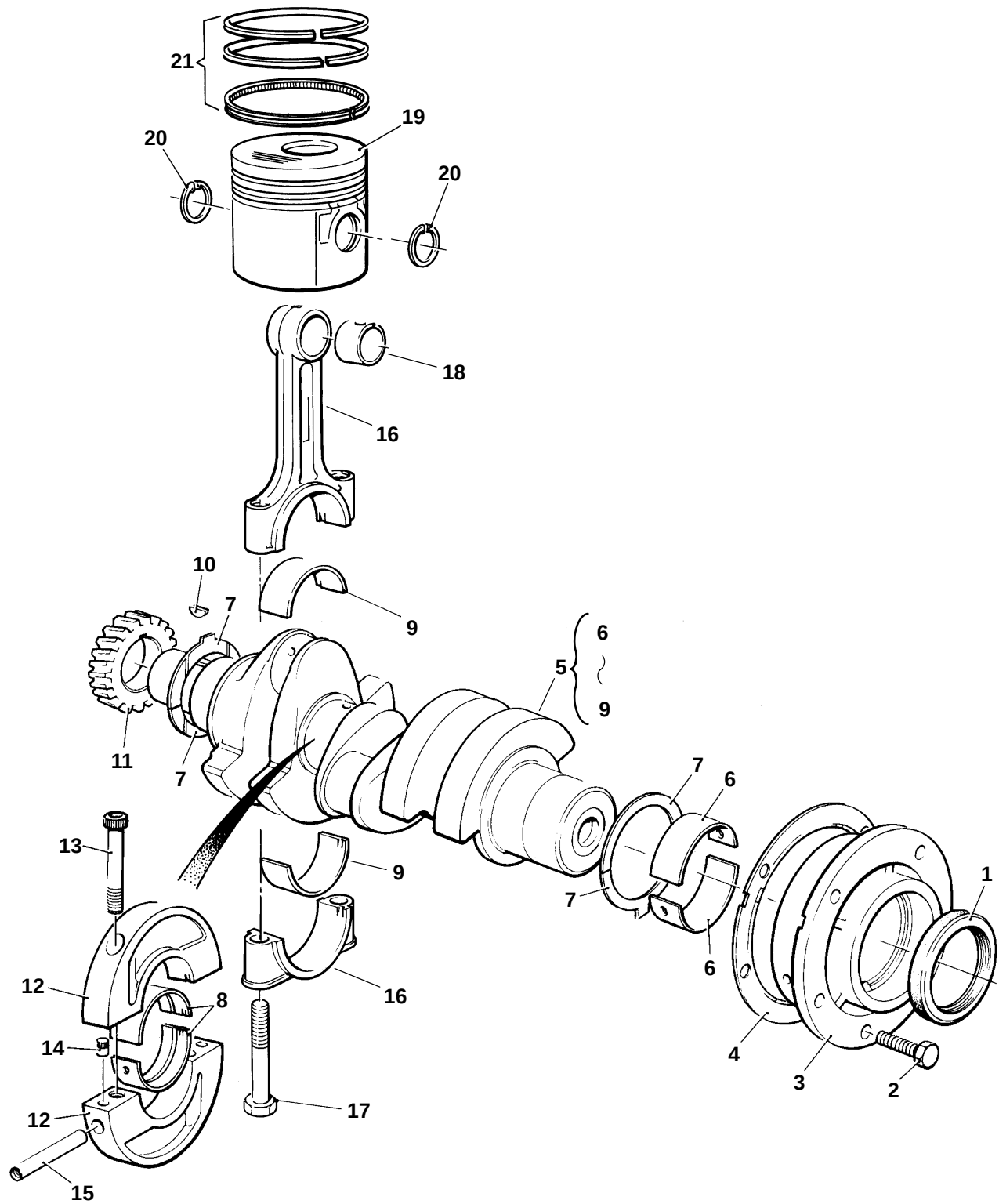
**Oil Pressure System**



## Oil Pressure System

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                  | REF NO.                                                                                             | PART NO. | QTY USED | PART DESCRIPTION                                                                    |
|---------|----------|----------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|----------|-------------------------------------------------------------------------------------|
| 1       | 186-6580 | 1        | Switch, Oil Pressure Shutoff (5psi)                               | 13                                                                                                  | 186-6803 | 1        | Block Assy, Oil Distribution (Includes Parts Marked °) (Used With Detector Control) |
| 2       | 193-0474 | 1        | Kit, Oil Pressure Gauge (Includes Street Tee and Gauge) (DNAB)    | 14                                                                                                  | 186-6806 | 1        | °Block, Oil Distribution                                                            |
| 3       | 186-6253 | 1        | Adapter, Oil Pressure Switch                                      | 15                                                                                                  | 186-6808 | 2        | °Spacer                                                                             |
| 4       | 186-6297 | 1        | Tee, 1/8 NPT Street                                               | 16                                                                                                  | 186-6526 | 2        | °Screw, Hex Head Cap (M10 x 30mm)                                                   |
| 5       | 193-0478 | 1        | Kit, Oil Pressure Gauge (DNAA) (Includes Parts Marked +)          | 17                                                                                                  | 186-6801 | 2        | °Union                                                                              |
| 6       | 186-7028 | 2        | + Elbow (1/8 NPT)                                                 | 18                                                                                                  | 186-6807 | 1        | °Hose                                                                               |
| 7       | 186-7039 | 1        | + Tube, Copper                                                    | 19                                                                                                  | 186-6022 | 2        | °Plug                                                                               |
| 8       | 186-6986 | 1        | + Gauge, Oil Pressure                                             | 20                                                                                                  | 186-7200 | 1        | Elbow, 45°                                                                          |
| 9       | 186-7037 | 1        | + Block, Oil Distribution                                         | 21                                                                                                  | 505-0057 | 1        | Plug, 1/8 NPT                                                                       |
| 10      | 186-7045 | 2        | + Screw, Hex Head Cap (M10 x 1.5 x 55mm)                          | 22                                                                                                  | 800-2090 | 1        | Screw, Hex Head Cap (M10 x 1.5 x 45mm)                                              |
| 11      | 186-6968 | 1        | Switch, Oil Pressure Warning (9 psi) (Used With Detector Control) | + – Parts Included in Oil Pressure Gauge Kit.<br>° – Parts Included in Oil Distribution Block Assy. |          |          |                                                                                     |
| 12      | 193-0448 | 1        | Sender, Oil Pressure (Used With Detector Control)                 |                                                                                                     |          |          |                                                                                     |

# Crankshaft



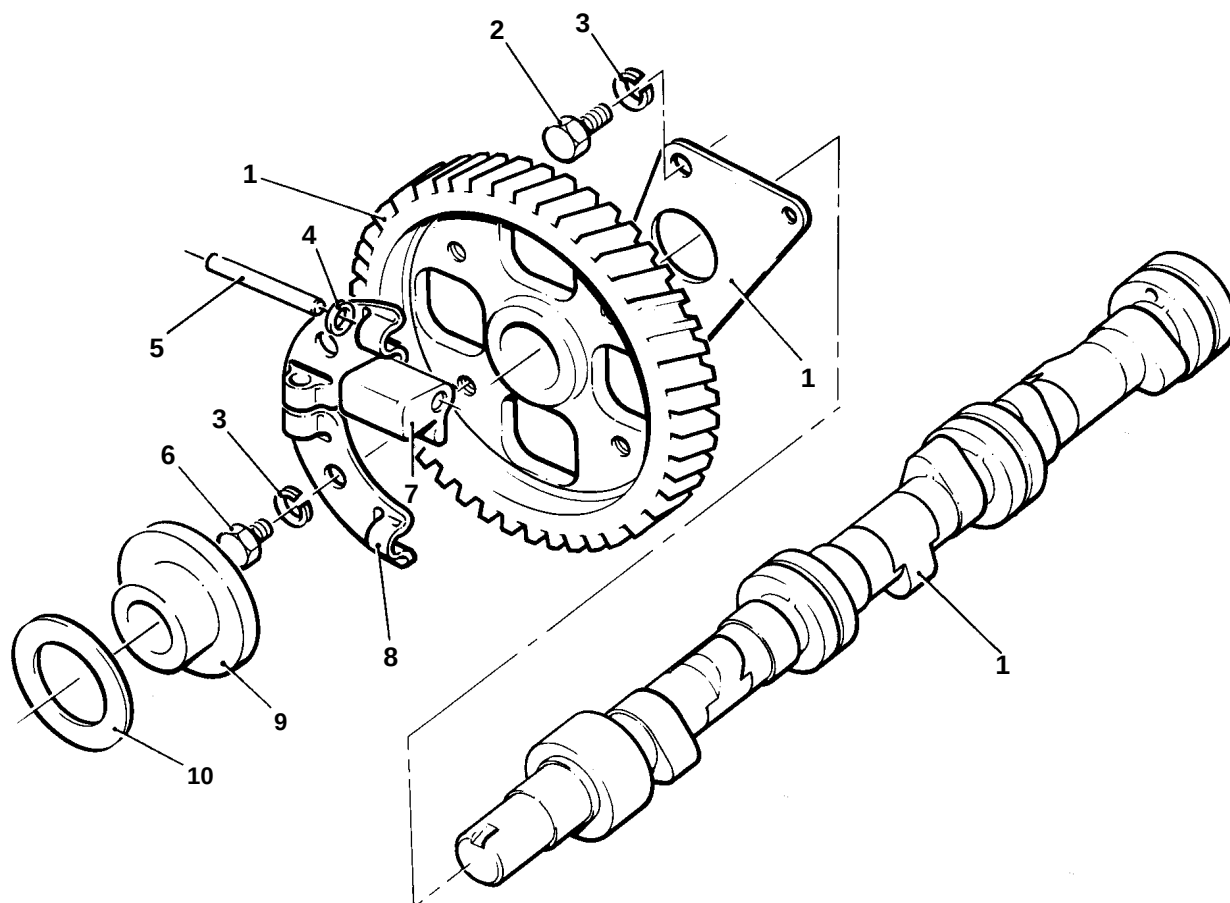
## Crankshaft

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                       | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                            |
|---------|----------|----------|--------------------------------------------------------|---------|----------|----------|-------------------------------------------------------------|
| 1       | 186-6063 | 1        | Seal, Oil                                              | 13      |          |          | Screw, Cap (M8 x 50mm)                                      |
| 2       | 186-6064 | 5        | Screw, Hex Head Cap (M8 x 1.25 x 20mm)                 |         | 186-6050 | 2        | DNAA                                                        |
| 3       | 186-6058 | 1        | Housing, Main Bearing                                  |         | 186-6050 | 4        | DNAB                                                        |
| 4       |          |          | Shim                                                   | 14      |          |          | Dowel                                                       |
|         | 186-6065 | AR       | .38mm                                                  |         | 186-6049 | 2        | DNAA                                                        |
|         | 186-6066 | AR       | .50mm                                                  |         | 186-6049 | 4        | DNAB                                                        |
| 5       |          |          | Crankshaft Assy (Includes Parts Marked *)              | 15      |          |          | Tube, Locating                                              |
|         | 186-6046 | 1        | DNAA                                                   |         | 186-6057 | 1        | DNAA                                                        |
|         | 186-6420 | 1        | DNAB                                                   |         | 186-6057 | 2        | DNAB                                                        |
| 6       |          |          | *Bearing Set, Flywheel End Main                        | 16      |          |          | Rod Assy, Connecting (Includes Rod, Bolt and Small Bearing) |
|         | 186-6060 | 1        | Standard                                               |         | 186-6078 | 2        | DNAA                                                        |
|         | 186-6061 | 1        | 0.25 mm Undersize                                      |         | 186-6078 | 3        | DNAB                                                        |
|         | 186-6062 | 1        | 0.50 mm Undersize                                      | 17      |          |          | Bolt, Connecting Rod                                        |
| 7       | 186-6056 | 1        | *Washer Set, Thrust                                    |         | 186-6079 | 4        | DNAA                                                        |
| 8       |          |          | *Bearing, Center                                       |         | 186-6079 | 6        | DNAB                                                        |
|         |          |          | DNAA                                                   | 18      |          |          | Bearing, Small                                              |
|         | 186-6051 | 1        | Standard                                               |         | 186-6080 | 2        | DNAA                                                        |
|         | 186-6052 | 1        | .25mm                                                  |         | 186-6080 | 3        | DNAB                                                        |
|         | 186-6053 | 1        | .50mm                                                  | 19      |          |          | + Piston Assy (Includes Pin, Piston, Circlip and Ring Set)  |
|         |          |          | DNAB                                                   |         |          |          | Standard                                                    |
|         | 186-6051 | 2        | Standard                                               |         | 186-6504 | 2        | DNAA                                                        |
|         | 186-6052 | 2        | .25mm                                                  |         | 186-6504 | 3        | DNAB                                                        |
|         | 186-6053 | 2        | .50mm                                                  |         |          |          | .50mm Oversize                                              |
| 9       |          |          | *Bearing, Large                                        |         | 186-6506 | 2        | DNAA                                                        |
|         |          |          | Standard                                               |         | 186-6506 | 3        | DNAB                                                        |
|         | 186-6081 | 2        | DNAA                                                   | 20      |          |          | Circlip                                                     |
|         | 186-6081 | 3        | DNAB                                                   |         | 186-6072 | 4        | DNAA                                                        |
|         |          |          | .25mm Undersize                                        |         | 186-6072 | 6        | DNAB                                                        |
|         | 186-6082 | 2        | DNAA                                                   | 21      |          |          | Ring Set, Piston                                            |
|         | 186-6082 | 3        | DNAB                                                   |         |          |          | Standard                                                    |
|         |          |          | .50mm Undersize                                        |         | 186-6507 | 2        | DNAA                                                        |
|         | 186-6083 | 2        | DNAA                                                   |         | 186-6507 | 3        | DNAB                                                        |
|         | 186-6083 | 3        | DNAB                                                   |         |          |          | .50mm Oversize                                              |
| 10      | 186-6055 | 1        | Key                                                    |         | 186-6509 | 2        | DNAA                                                        |
| 11      | 186-6054 | 1        | Pinion, Crankshaft                                     |         | 186-6509 | 3        | DNAB                                                        |
| 12      |          |          | Housing, Center Bearing (Includes Cap Screw and Dowel) |         |          |          |                                                             |
|         | 186-6048 | 1        | DNAA                                                   |         |          |          |                                                             |
|         | 186-6048 | 2        | DNAB                                                   |         |          |          |                                                             |

\* – Parts Included in Crankshaft Assy.

+ – Piston Pin Not For Sale Separately.

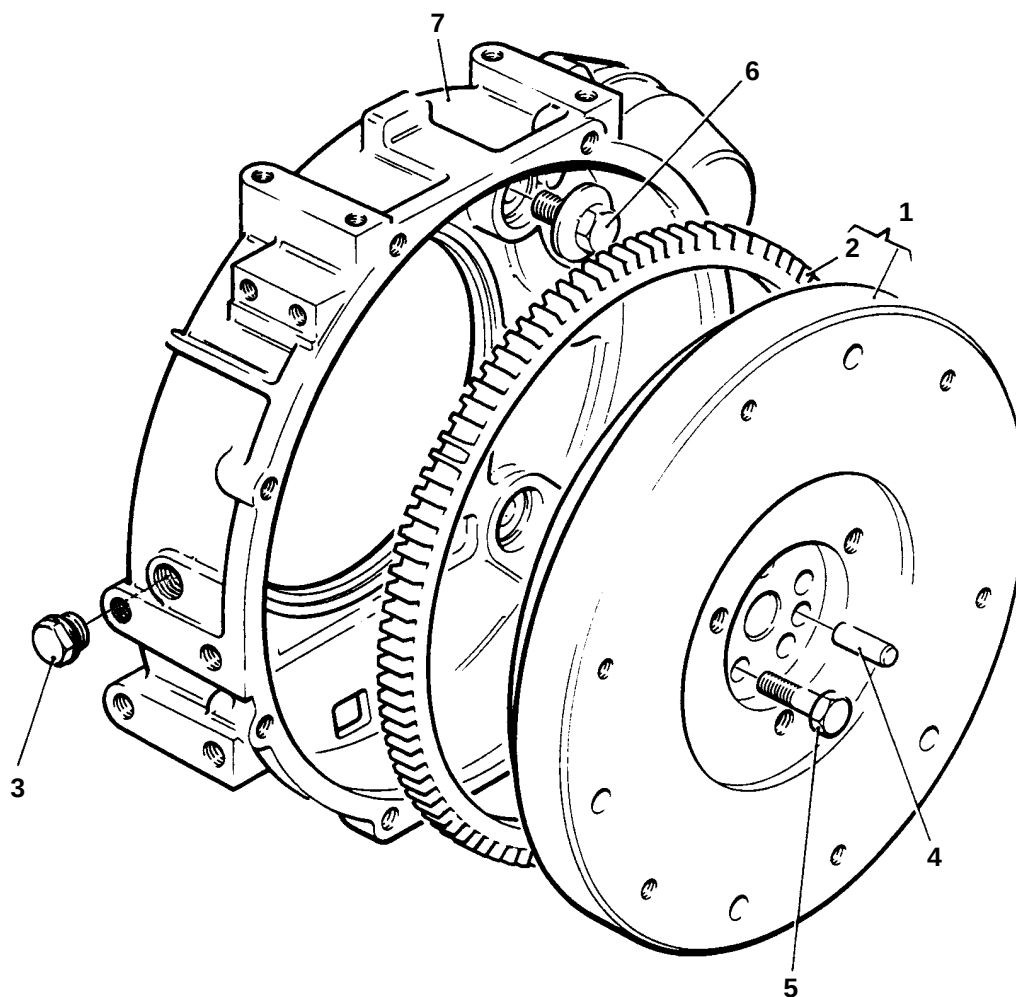
## Camshaft



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                  | REF NO. | PART NO. | QTY USED | PART DESCRIPTION       |
|---------|----------|----------|---------------------------------------------------|---------|----------|----------|------------------------|
| 1       |          |          | Camshaft Assy (Includes Gearwheel & Thrust Plate) | 5       | 186-6040 | 2        | Pin                    |
|         | 186-6035 | 1        | DNAA                                              | 6       | 186-6037 | 4        | Screw, Set (M6 x 12mm) |
|         | 186-6416 | 1        | DNAB                                              | 7       | 186-6693 | 4        | Weight, Governor       |
| 2       | 186-6254 | 2        | Screw, Oil Jet (M6)                               | 8       | 186-6041 | 4        | Plate, Retaining       |
| 3       | 186-6038 | 6        | Washer, Spring (M6)                               | 9       | 186-6815 | 1        | Sleeve, Thrust         |
| 4       | 186-6143 | 4        | Shim                                              | 10      | 186-6816 | 1        | Washer, Thrust         |

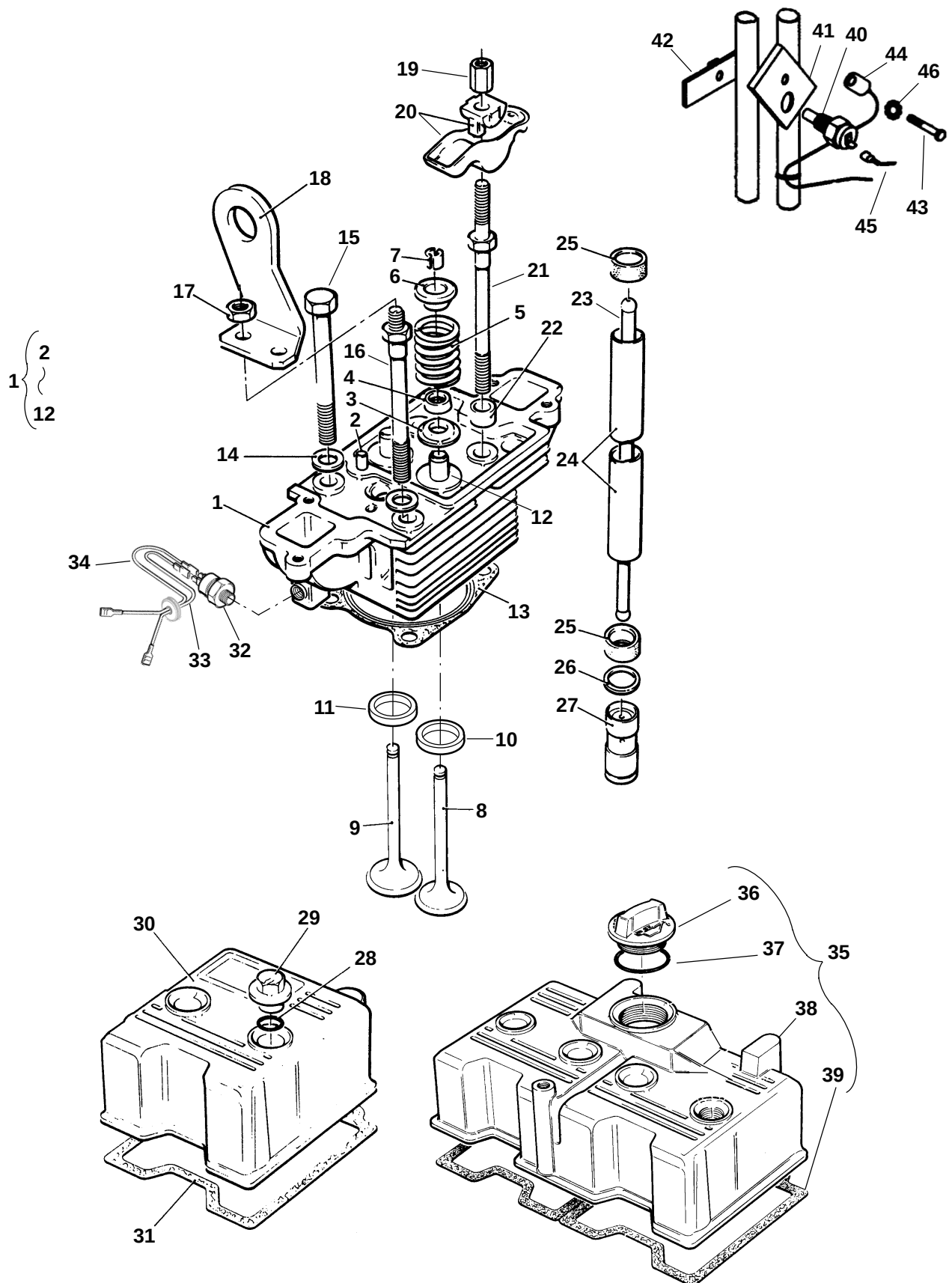


## Flywheel



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                 | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                  |
|---------|----------|----------|----------------------------------|---------|----------|----------|-----------------------------------|
| 1       | 186-6467 | 1        | Flywheel (Includes Ring Gear)    | 6       | 186-6198 | 4        | Screw, Self-Lock Set (M12 x 25mm) |
| 2       | 186-6460 | 1        | Gear, Ring                       | 7       | 186-6466 | 1        | Housing, Flywheel                 |
| 3       | 186-6463 | 1        | Plug, Banking                    |         |          |          |                                   |
| 4       | 186-6461 | 1        | Dowel                            |         |          |          |                                   |
| 5       | 186-6462 | 5        | Screw, Hex Head Cap (M10 x 35mm) |         |          |          |                                   |

# Cylinder Head



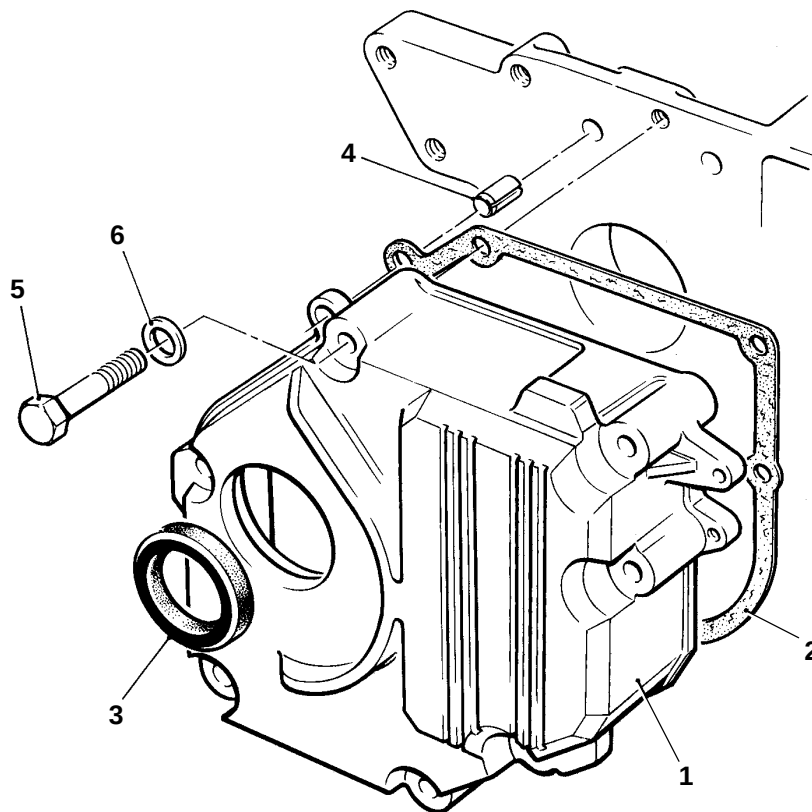
## Cylinder Head

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                       | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|----------|----------|------------------------------------------------------------------------|---------|----------|----------|----------------------------------------------|
| 1       |          |          | Head Assy, Cylinder (Includes Parts Marked *)                          | 21      |          |          | Bolt (M10)                                   |
|         | 186-6510 | 2        | DNAA                                                                   |         | 186-6516 | 4        | DNAA                                         |
|         | 186-6510 | 3        | DNAB                                                                   |         | 186-6516 | 6        | DNAB                                         |
| 2       |          |          | *Tube, Breather                                                        | 22      |          |          | Spacer                                       |
|         | 186-6821 | 2        | DNAA                                                                   |         | 186-6107 | 4        | DNAA                                         |
|         | 186-6821 | 3        | DNAB                                                                   |         | 186-6107 | 6        | DNAB                                         |
| 3       |          |          | *Plate, Valve Spring                                                   | 23      |          |          | Rod, Push                                    |
|         | 186-6088 | 4        | DNAA                                                                   |         | 186-6098 | 4        | DNAA                                         |
|         | 186-6088 | 6        | DNAB                                                                   |         | 186-6098 | 6        | DNAB                                         |
| 4       |          |          | *Seal, Valve Stem                                                      | 24      |          |          | Tube, Push Rod Sealing                       |
|         | 186-6257 | 4        | DNAA                                                                   |         | 186-6520 | 4        | DNAA                                         |
|         | 186-6257 | 6        | DNAB                                                                   |         | 186-6520 | 6        | DNAB                                         |
| 5       |          |          | *Spring, Valve                                                         | 25      |          |          | Rubber, Sealing Tube                         |
|         | 186-6089 | 4        | DNAA                                                                   |         | 186-6100 | 8        | DNAA                                         |
|         | 186-6089 | 6        | DNAB                                                                   |         | 186-6100 | 12       | DNAB                                         |
| 6       |          |          | *Carrier, Valve Spring                                                 | 26      |          |          | Washer                                       |
|         | 186-6090 | 4        | DNAA                                                                   |         | 186-6101 | 4        | DNAA                                         |
|         | 186-6090 | 6        | DNAB                                                                   |         | 186-6101 | 6        | DNAB                                         |
| 7       |          |          | *Cotter, Valve                                                         | 27      |          |          | Tappet, Hydraulic                            |
|         | 186-6091 | 8        | DNAA                                                                   |         | 186-6103 | 4        | DNAA                                         |
|         | 186-6091 | 12       | DNAB                                                                   |         | 186-6103 | 6        | DNAB                                         |
| 8       |          |          | *Valve, Exhaust                                                        | 28      |          |          | O'Ring                                       |
|         | 186-6514 | 2        | DNAA                                                                   |         | 186-6028 | 4        | DNAA                                         |
|         | 186-6514 | 3        | DNAB                                                                   |         | 186-6028 | 6        | DNAB                                         |
| 9       |          |          | *Valve, Inlet                                                          | 29      |          |          | Nut                                          |
|         | 186-6513 | 2        | DNAA                                                                   |         | 186-6118 | 4        | DNAA                                         |
|         | 186-6513 | 3        | DNAB                                                                   |         | 186-6118 | 6        | DNAB                                         |
| 10      |          |          | *Insert, Exhaust Valve                                                 | 30      |          |          | Cover, Cylinder Head                         |
|         | 186-6511 | 2        | DNAA                                                                   |         | 186-6116 | 2        | DNAA                                         |
|         | 186-6511 | 3        | DNAB                                                                   |         | 186-6116 | 3        | DNAB                                         |
| 11      |          |          | *Insert, Inlet Valve                                                   | 31      |          |          | Gasket, Head Cover                           |
|         | 186-6512 | 2        | DNAA                                                                   |         | 186-6117 | 2        | DNAA                                         |
|         | 186-6512 | 3        | DNAB                                                                   |         | 186-6117 | 3        | DNAB                                         |
| 12      |          |          | *Guide, Valve                                                          | 32      |          |          | Switch, Head Temperature                     |
|         | 186-6092 | 4        | DNAA                                                                   |         | 186-6581 | 1        | Spec A                                       |
|         | 186-6092 | 6        | DNAB                                                                   |         | 186-7089 | 1        | Begin Spec B                                 |
| 13      |          |          | Gasket Set, Cylinder Head (Includes One each of 0.25, 0.38 and 0.51mm) | 33      | 186-6582 | 1        | Link, Cable                                  |
|         | 186-6519 | 2        | DNAA                                                                   | 34      | 186-6583 | 1        | Link, Cable                                  |
|         | 186-6519 | 3        | DNAB                                                                   | 35      | 123-2126 | 1        | Kit, High Oil Fill (Includes Parts Marked +) |
| 14      |          |          | Washer (M10)                                                           | 36      | 186-6023 | 1        | + Cap, Oil Fill                              |
|         | 186-6114 | 8        | DNAA                                                                   | 37      | 186-6024 | 1        | + O'Ring                                     |
|         | 186-6114 | 12       | DNAB                                                                   | 38      | 186-6902 | 1        | + Cover, Cylinder Head                       |
| 15      |          |          | Bolt (M10)                                                             | 39      | 186-6117 | 2        | + Gasket, Cover                              |
|         | 186-6517 | 2        | DNAA                                                                   | 40      | 186-6615 | 1        | Sender, Temperature                          |
|         | 186-6517 | 4        | DNAB                                                                   | 41      | 186-7207 | 6        | Bracket, Transducer                          |
| 16      | 186-6518 | 2        | Bolt (M10)                                                             | 42      | 186-7208 | 1        | Bracket, Clamp                               |
| 17      | 186-6020 | 2        | Nut, Hex (M8 x 1.25)                                                   | 43      | 186-6413 | 1        | Bolt (M6N x 35mm)                            |
| 18      | 186-6437 | 1        | Eye, Lifting                                                           | 44      | 186-6876 | 1        | Cable                                        |
| 19      |          |          | Nut (M8)                                                               | 45      | 186-6875 | 1        | Harness, Lead Extension                      |
|         | 186-6095 | 4        | DNAA                                                                   | 46      | 186-6635 | 1        | Washer, EIT (1/4")                           |
|         | 186-6095 | 6        | DNAB                                                                   |         |          |          |                                              |
| 20      |          |          | Lever, Rocker (Includes Pivot)                                         |         |          |          |                                              |
|         | 186-6258 | 4        | DNAA                                                                   |         |          |          |                                              |
|         | 186-6094 | 6        | DNAB                                                                   |         |          |          |                                              |

\* – Parts Included in Cylinder Head Assy.

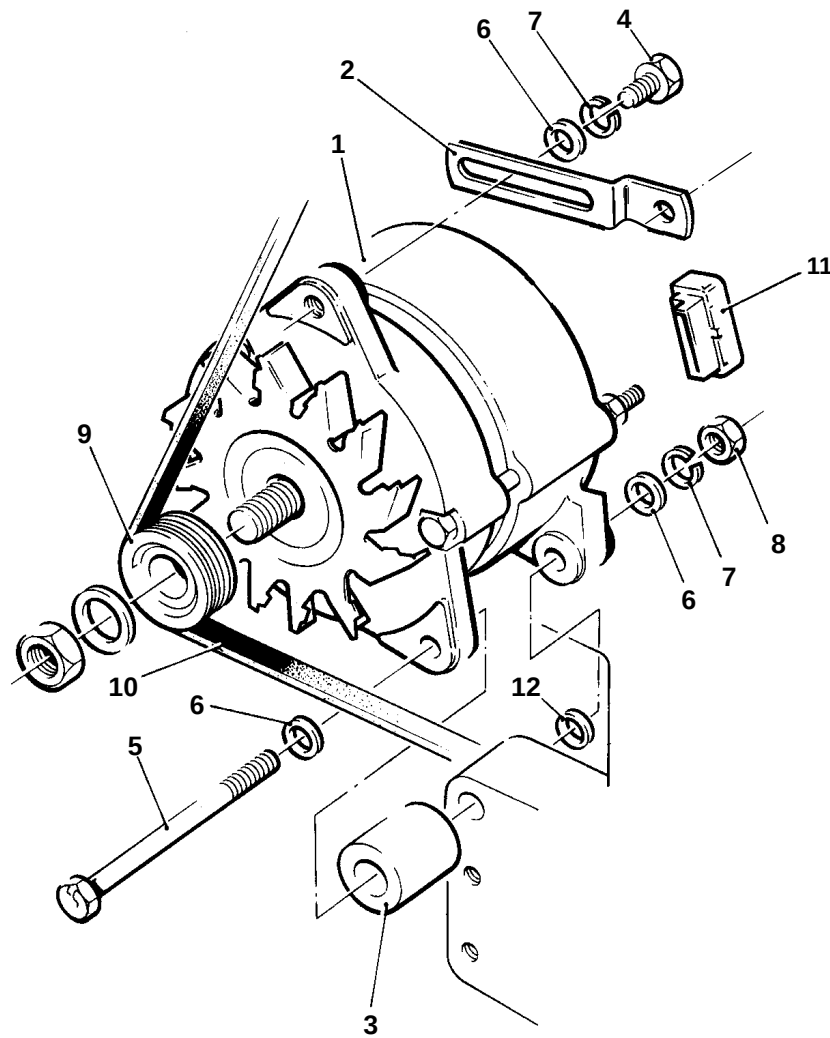
+ – Parts Included in High Oil Fill Kit.

## Gear End Cover



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION     | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                    |
|---------|----------|----------|----------------------|---------|----------|----------|-------------------------------------|
| 1       | 186-6438 | 1        | Cover, Gear End      | 5       | 186-6150 | 7        | Screw, Hex Head Cap (M6 x 1 x 50mm) |
| 2       | 186-6147 | 1        | Gasket, Cover        | 6       | 186-6015 | 7        | Washer (M6)                         |
| 3       | 186-6148 | 1        | Seal, Rear Crank Oil |         |          |          |                                     |
| 4       | 186-6149 | 2        | Dowel                |         |          |          |                                     |

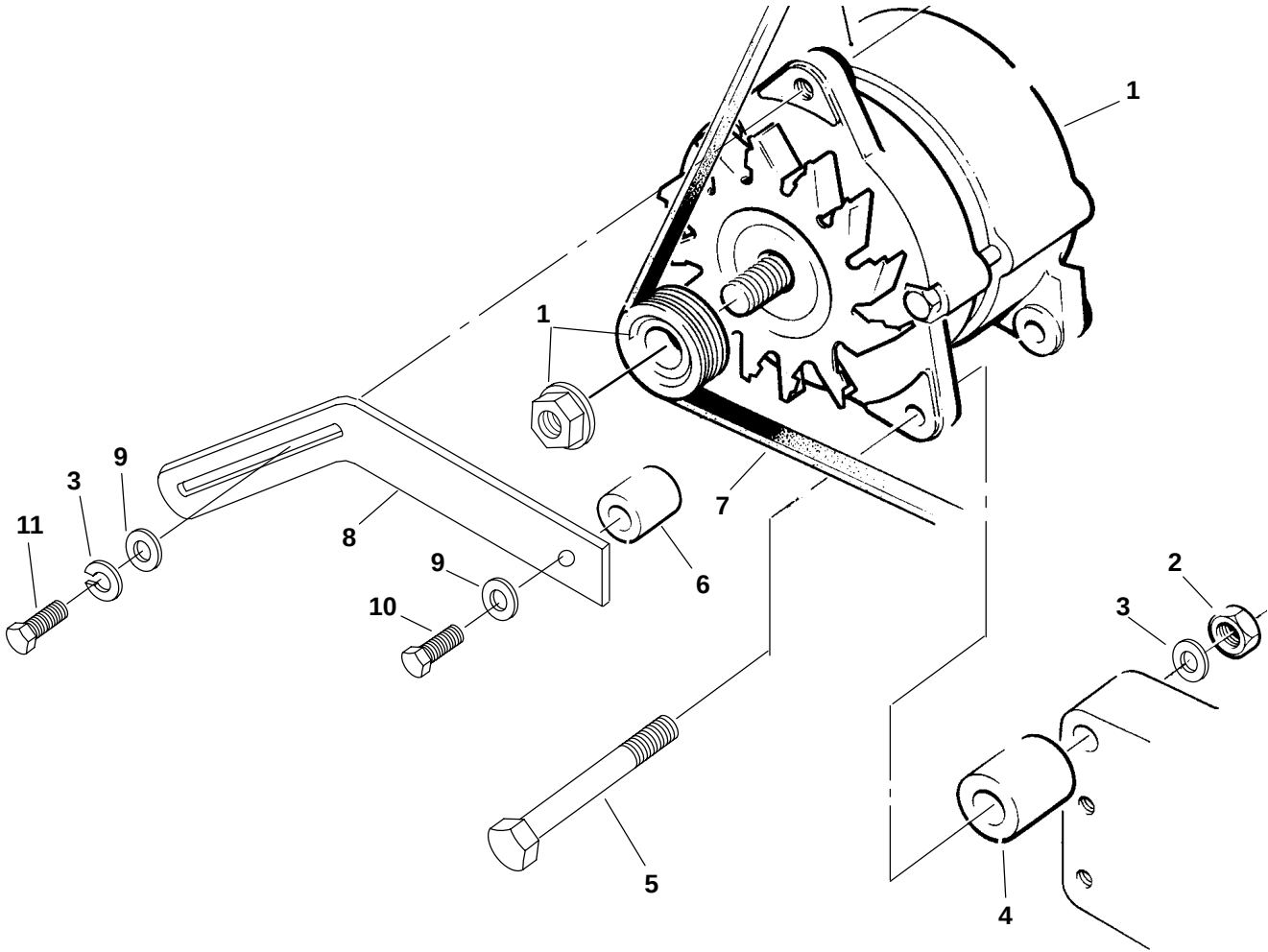
## Alternator (Spec A)



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                    | REF NO. | PART NO. | QTY USED | PART DESCRIPTION     |
|---------|----------|----------|---------------------------------------------------------------------|---------|----------|----------|----------------------|
| 1       | 186-6469 | 1        | Alternator (12V, 45A) (Includes Nut and Washer for Mounting Pulley) | 8       | 186-6274 | 1        | Nut, Hex (M8 x 1.25) |
| 2       | 186-6470 | 1        | Bracket, Adjusting                                                  | 9       | 186-6476 | 1        | Pulley DNAA          |
| 3       | 186-6471 | 1        | Spacer                                                              |         | 186-6558 | 1        | DNAB                 |
| 4       | 186-6472 | 1        | Screw, Hex Head Cap (M8 x 20mm)                                     | 10      |          | 1        | Belt                 |
| 5       | 186-6840 | 1        | Bolt (M8 x 130mm)                                                   |         | 186-6559 | 1        | DNAA                 |
| 6       | 186-6412 | 3        | Washer (M8)                                                         |         | 186-6477 | 1        | DNAB                 |
| 7       | 186-6019 | 2        | Washer, Spring (M8)                                                 | 11      | 186-6478 | 1        | Plug, Connector      |
|         |          |          |                                                                     | 12      | 186-6479 | 1        | Spacer               |

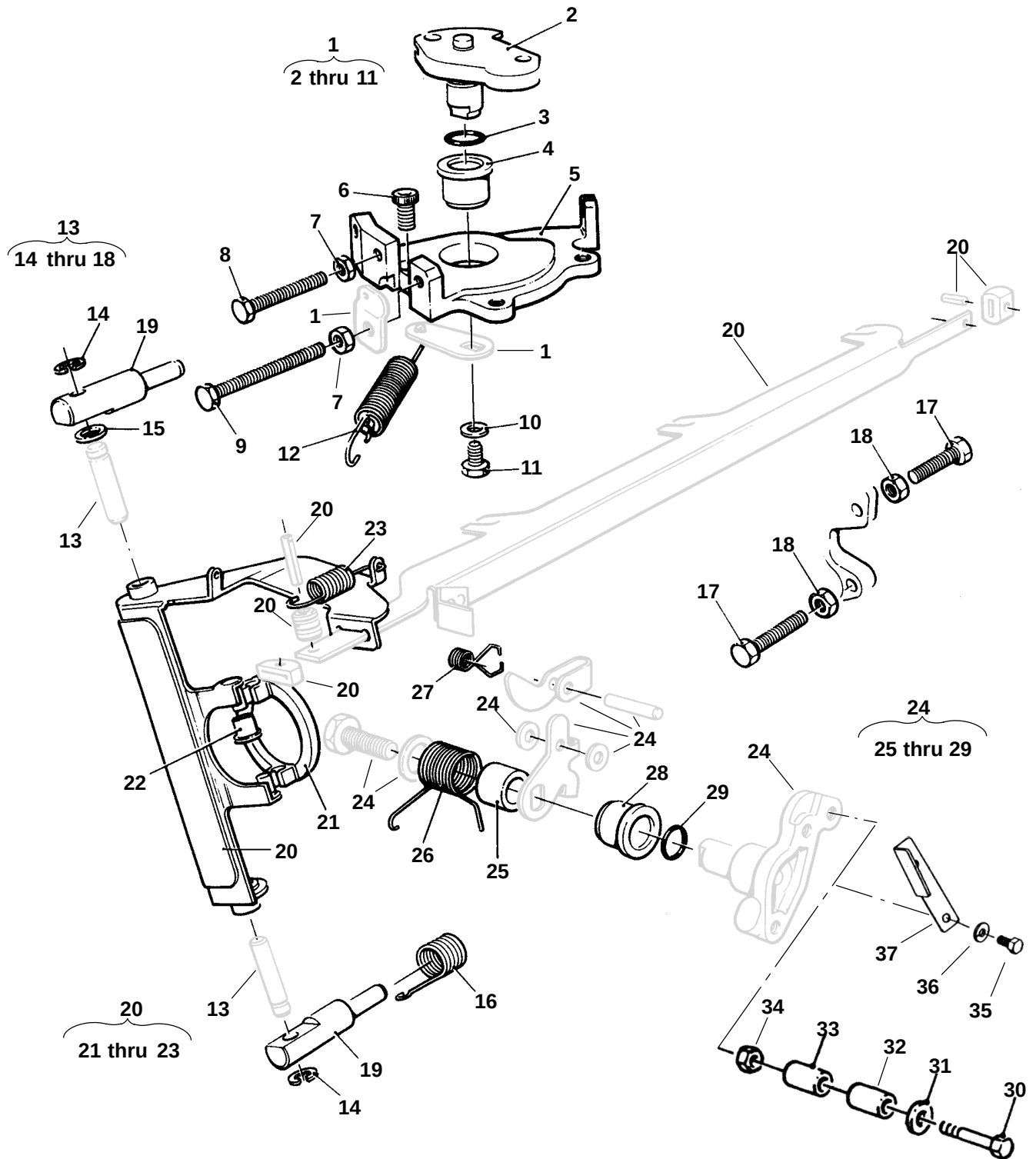


## Alternator (Begin Spec B)



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                     | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                |
|---------|----------|----------|--------------------------------------|---------|----------|----------|---------------------------------|
| 1       | 186-7209 |          | Alternator (Includes Nut and Pulley) | 8       | 186-7212 | 1        | Bracket, Adjusting              |
| 2       | 186-6274 | 1        | Nut, Hex (M8 x 1.25)                 | 9       | 186-6412 | 1        | Washer (M8)                     |
| 3       | 186-6529 | 3        | Washer, Spring (M8)                  | 10      |          |          | Bolt                            |
| 4       | 186-7210 | 1        | Pivot, Front Spacer                  |         | 186-7202 | 1        | M8 x 1.25 x 35mm                |
| 5       | 186-7201 | 1        | Bolt (M8 x 100mm)                    |         | 186-7203 | 1        | M8 x 1.25 x 30mm                |
| 6       | 186-7211 | 1        | Spacer                               | 11      | 186-6681 | 1        | Screw, Hex Head Cap (M8 x 25mm) |
| 7       | 186-6811 | 1        | Belt                                 |         |          |          |                                 |

# Mechanical Governor

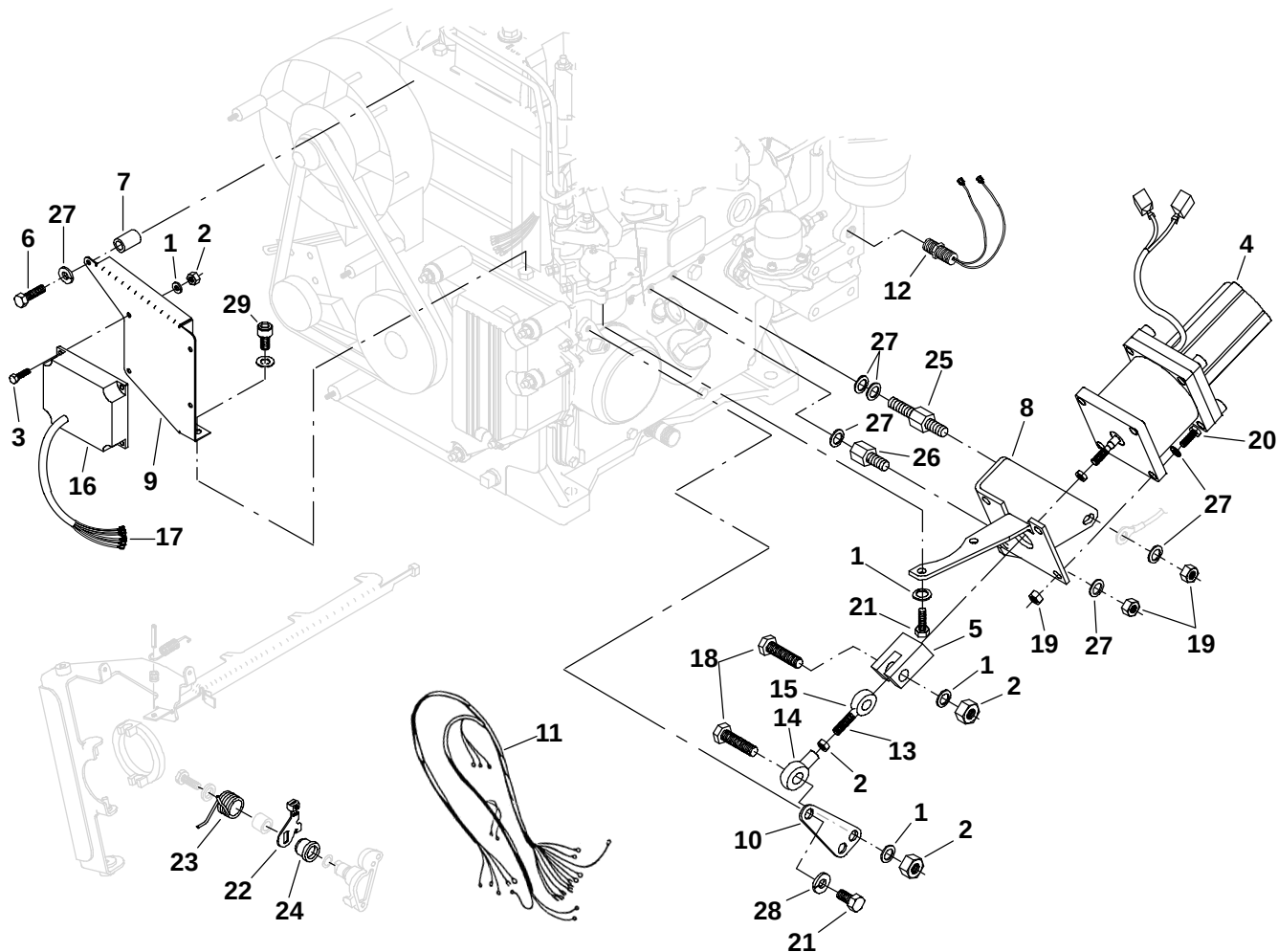




## Mechanical Governor

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                             | REF NO.                                                                                                                                    | PART NO. | QTY USED | PART DESCRIPTION                                   |
|---------|----------|----------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------------------------------------------------|
| 1       | 186-6429 | 1        | Control, Governor Speed<br>(Includes Parts Marked *)         | 22                                                                                                                                         | 186-6259 | 2        | Bearing                                            |
| 2       | 186-6431 | 1        | *Quadrant, Speed Control                                     | 23                                                                                                                                         | 186-6121 | 1        | Spring, Governor Lever                             |
| 3       | 186-6129 | 1        | *O'Ring                                                      | 24                                                                                                                                         | 186-6132 | 1        | Lever Assy, Fuel Pump<br>(Includes Parts Marked +) |
| 4       | 186-6124 | 1        | *Bearing                                                     | 25                                                                                                                                         | 186-6433 | 1        | +Pivot                                             |
| 5       | 186-6430 | 1        | *Baseplate                                                   | 26                                                                                                                                         | 186-6137 | 1        | +Spring, Stop/Run Lever                            |
| 6       | 186-6125 | 1        | *Screw, Cap (M6 x 12 mm)                                     | 27                                                                                                                                         | 186-6136 | 1        | +Spring, Trip Lever                                |
| 7       | 186-6128 | 2        | *Nut, Hex (M5)                                               | 28                                                                                                                                         | 186-6124 | 1        | +Bearing                                           |
| 8       | 186-6127 | 1        | *Screw, Speed Setting Set<br>(M5 x 35mm)                     | 29                                                                                                                                         | 186-6129 | 1        | +O'Ring                                            |
| 9       | 186-6126 | 1        | *Screw, Speed Setting Set<br>(M5 x 50mm)                     | 30                                                                                                                                         | 186-6919 | 1        | Screw (M5) (DNAA)                                  |
| 10      | 186-6131 | 1        | *Washer (M5)                                                 | 31                                                                                                                                         | 186-6131 | 1        | Washer (M5) (DNAA)                                 |
| 11      | 186-6130 | 1        | *Screw, Set (M6)                                             | 32                                                                                                                                         | 186-6920 | 1        | Roller (DNAA)                                      |
| 12      | 186-6490 | 1        | Spring, Governor                                             | 33                                                                                                                                         | 186-6921 | 1        | Spacer (DNAA)                                      |
| 13      | 186-6140 | 1        | Pin Assy, Pivot (Includes Parts<br>Marked °)                 | 34                                                                                                                                         | 186-6798 | 1        | Nut (M5) (DNAA)                                    |
| 14      | 186-6141 | 2        | °Retainer, Pivot Pin                                         | 35                                                                                                                                         | 186-6232 | 2        | Screw, Hex Head Cap<br>(M5 x 0.8 x 10mm)<br>(DNAB) |
| 15      | 186-6143 | AR       | °Shim, Governor Lever                                        | 36                                                                                                                                         | 186-6296 | 2        | Washer, Spring (M5) (DNAB)                         |
| 16      | 186-6142 | 1        | °Clip, Pivot Pin                                             | 37                                                                                                                                         | 186-6603 | 1        | Lever, Stop (DNAB)                                 |
| 17      | 186-6145 | 2        | °Screw, Hex Head Cap (M5)                                    | * – Parts Included in Governor Speed Control Assy.<br>° – Parts Included in Pivot Pin Assy.<br>+ – Parts Included in Fuel Pump Lever Assy. |          |          |                                                    |
| 18      | 186-6128 | 2        | °Nut, Lock (M5)                                              |                                                                                                                                            |          |          |                                                    |
| 19      | 186-6008 | 2        | Support, Pivot                                               |                                                                                                                                            |          |          |                                                    |
| 20      |          |          | Lever Assy, Governor (Includes<br>Collar, Bearing and Spring | NOTE: Phantom Parts on Previous Page are available Only<br>in Assemblies.                                                                  |          |          |                                                    |
|         | 186-6424 | 1        | DNAA                                                         |                                                                                                                                            |          |          |                                                    |
|         | 186-6425 | 1        | DNAB                                                         |                                                                                                                                            |          |          |                                                    |
| 21      | 186-6427 | 1        | Collar, Thrust                                               |                                                                                                                                            |          |          |                                                    |

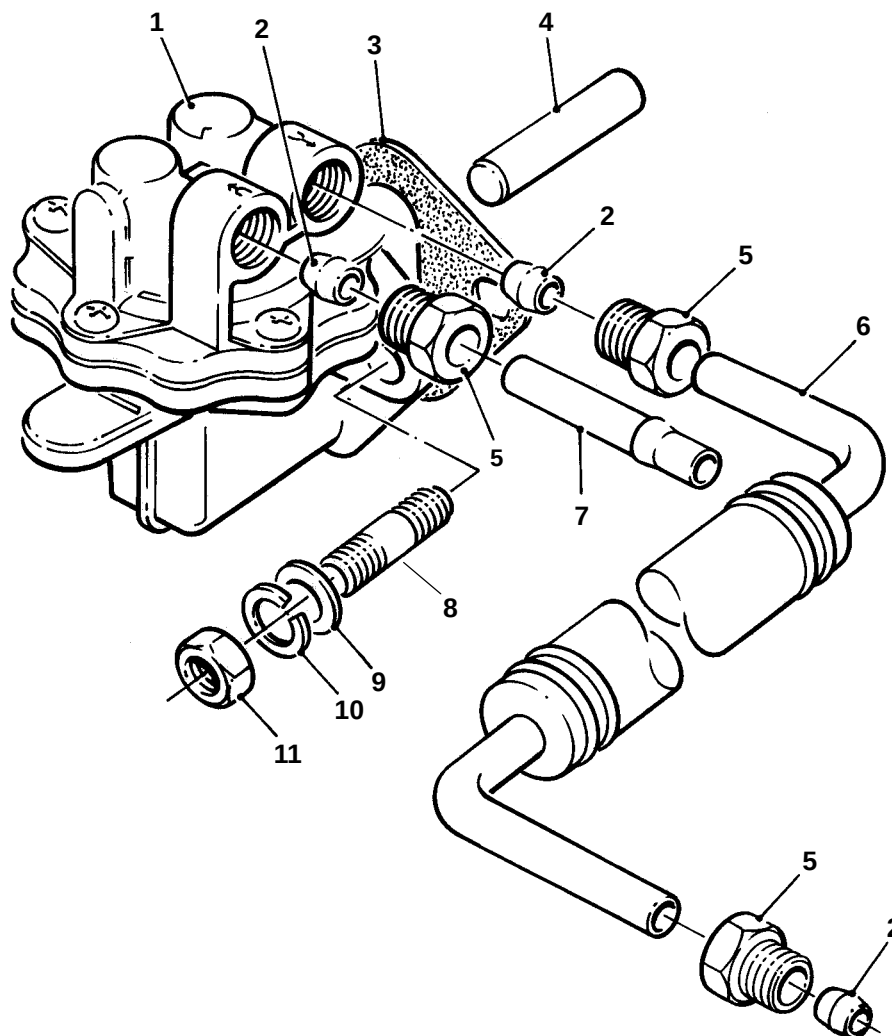
Electronic Governor



## Electronic Governor

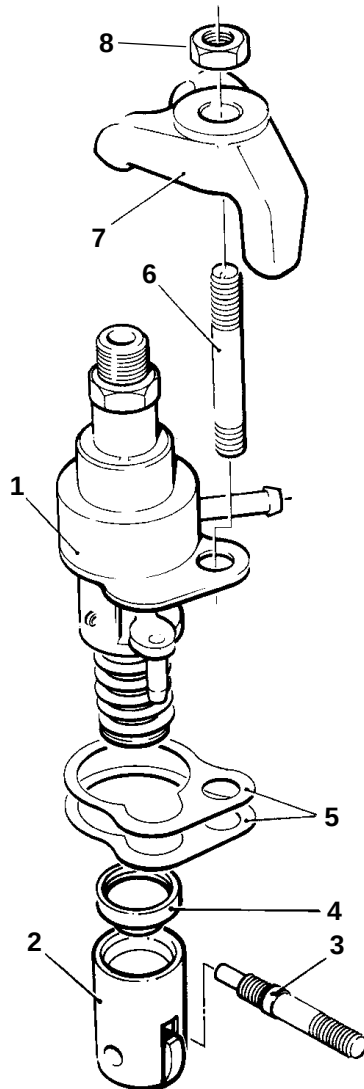
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                 | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             |
|---------|----------|----------|------------------------------------------------------------------|---------|----------|----------|----------------------------------------------|
| 1       | 186-6458 | 6        | Washer, Spring (3/16")                                           | 15      | 186-6648 | 1        | End, Male Rod (3/16") (DNAB)                 |
| 2       | 186-6474 | 9        | Nut, Hex (#10-32)                                                | 16      | 186-6650 | 1        | Controller, Electronic Governor              |
| 3       | 186-6486 | 4        | Screw, Hex Machine (#10-32 x 1/2")                               | 17      | 186-6651 | 6        | Terminal, Female Disconnect                  |
| 4       | 186-6497 | 1        | Actuator, Electronic Governor (Includes 1/4" unf Nut)            | 18      | 186-6682 | 2        | Screw, Fillister Head Machine (#10-32 x 3/4) |
| 5       |          |          | Clevis                                                           | 19      | 186-6209 | 10       | Nut, Hex (M6 x 1)                            |
|         | 186-6923 | 1        | DNAA (10-32)                                                     | 20      | 186-6034 | 4        | Screw, Hex Head Cap (M6 1 x 20mm)            |
|         | 186-6499 | 1        | DNAB (1/4UNF)                                                    | 21      | 186-6232 | 4        | Screw, Hex Head Cap (M5 x 0.8 x 10mm)        |
| 6       | 186-6910 | 1        | Screw, Hex Head Cap (M6 x 1 x 35mm)                              | 22      | 186-6692 | 1        | Lever                                        |
| 7       | 186-6826 | 1        | Spacer                                                           | 23      | 186-6763 | 1        | Spring, Stop Control                         |
| 8       |          |          | Bracket, Solenoid                                                | 24      | 186-6764 | 1        | Bushing, Stop/Run                            |
|         | 186-6924 | 1        | DNAA                                                             | 25      | 186-6234 | 1        | Stud                                         |
|         | 186-6643 | 1        | DNAB                                                             | 26      | 186-6231 | 1        | Stud, Adapter                                |
| 9       | 186-6827 | 1        | Bracket, Governor Controller                                     | 27      | 186-6597 | 9        | Washer, Lock (M6)                            |
| 10      | 186-6645 | 1        | Lever, Governor Solenoid                                         | 28      | 186-6296 | 4        | Washer, Spring (M5)                          |
| 11      |          |          | Harness, Electronic Governor                                     | 29      | 186-6828 | 1        | Screw, Hex Head Cap (M8 x 1.25 x 15mm)       |
|         | 186-6646 | 1        | Spec A                                                           |         |          |          |                                              |
|         | 186-7065 | 1        | Begin Spec B                                                     |         |          |          |                                              |
| 12      | 186-6647 | 1        | Pick-Up, Magnetic                                                |         |          |          |                                              |
| 13      | 186-6925 | 1        | Link, Connecting (1.5") (DNAA)                                   |         |          |          |                                              |
| 14      | 186-6649 | 2/1      | End, Female Rod (3/16") (Use Qty 2 for DNAA, Use Qty 1 for DNAB) |         |          |          |                                              |

## Fuel Lift Pump



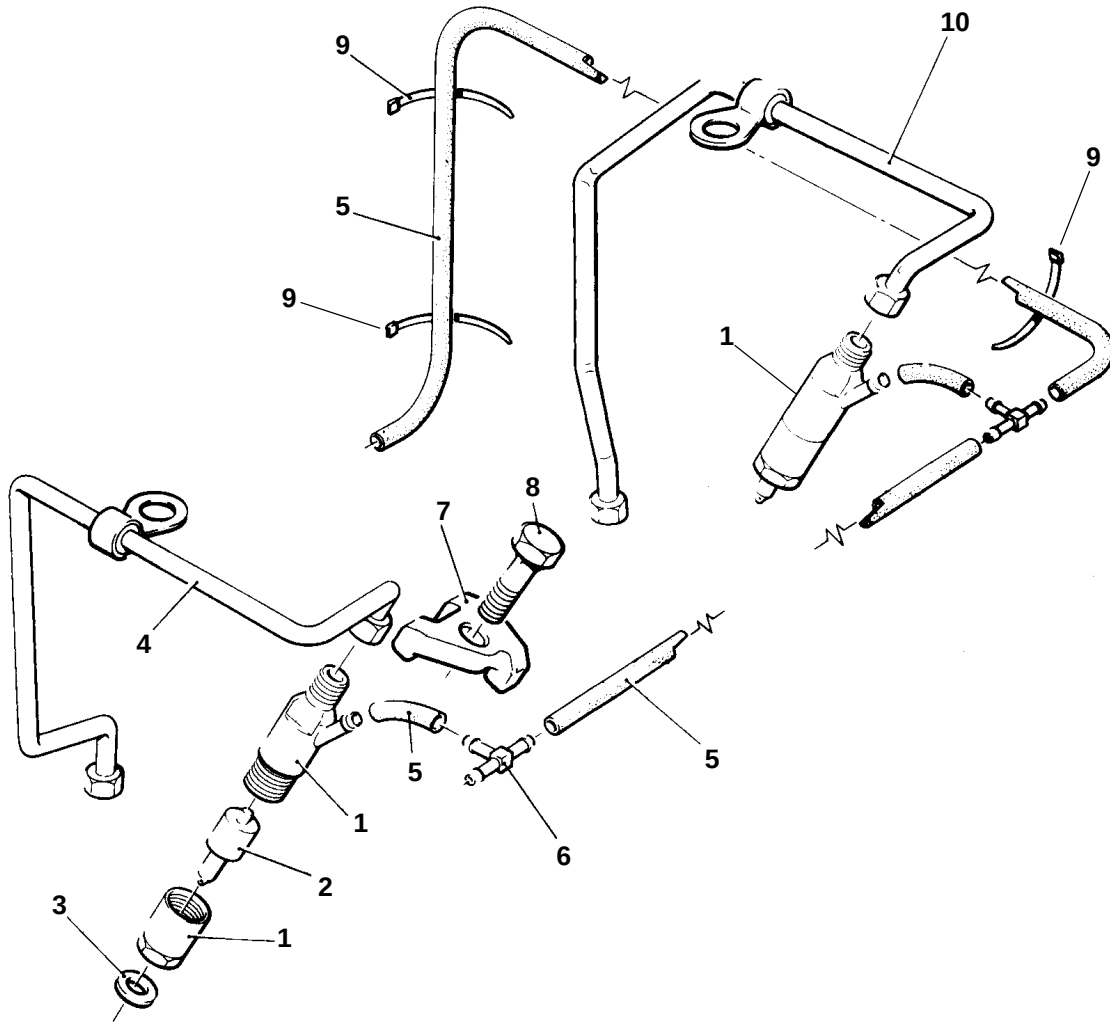
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION    | REF NO. | PART NO. | QTY USED | PART DESCRIPTION     |
|---------|----------|----------|---------------------|---------|----------|----------|----------------------|
| 1       | 186-6439 | 1        | Pump, Fuel Lift     | 7       | 186-6531 | 1        | Stem                 |
| 2       | 186-6446 | 3        | Ferrule, Fuel Pipe  | 8       | 186-6796 | 2        | Stud (M8 x 35mm)     |
| 3       | 186-6017 | 1        | Gasket              | 9       | 186-6412 | 2        | Washer (M8)          |
| 4       | 186-6440 | 1        | Rod, Push           | 10      | 186-6529 | 2        | Washer, Spring (M8)  |
| 5       | 186-6447 | 2        | Nut, Tube           | 11      | 186-6274 | 2        | Nut, Hex (M8 x 1.25) |
| 6       | 186-6530 | 1        | Pipe, Flexible Fuel |         |          |          |                      |

## Fuel Pump



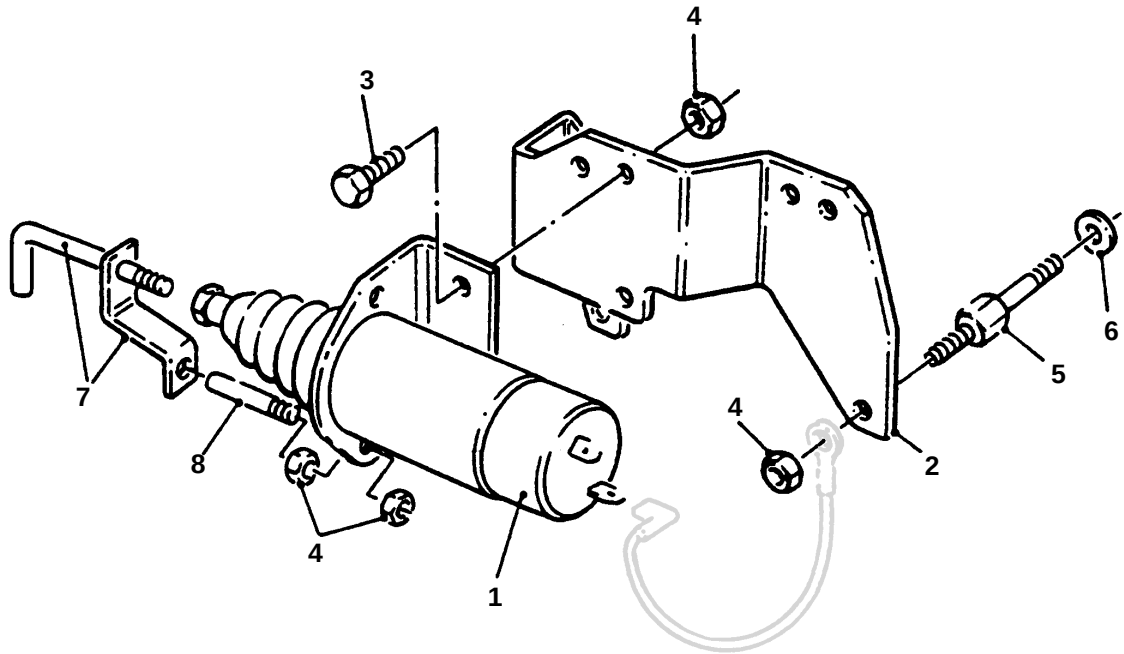
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                             | REF NO. | PART NO. | QTY USED | PART DESCRIPTION     |
|---------|-------------|----------|--------------------------------------------------------------|---------|----------|----------|----------------------|
| 1       |             |          | Pump, Fuel                                                   | 6       |          |          | Stud                 |
|         | 186-6450    | 2        | DNAA                                                         |         | 186-6153 | 2        | DNAA                 |
|         | 186-6450    | 3        | DNAB                                                         |         | 186-6153 | 3        | DNAB                 |
| 2       |             |          | Tappet                                                       | 7       |          |          | Clamp                |
|         | 186-6152    | 2        | DNAA                                                         |         | 186-6158 | 2        | DNAA                 |
|         | 186-6152    | 3        | DNAB                                                         |         | 186-6158 | 3        | DNAB                 |
| 3       |             |          | Stud, Fuel Pump Tappet                                       | 8       |          |          | Nut, Fuel Pump Clamp |
|         | 186-6250    | 2        | DNAA                                                         |         | 186-6154 | 2        | DNAA                 |
|         | 186-6250    | 3        | DNAB                                                         |         | 186-6154 | 3        | DNAB                 |
| 4       |             |          | Cup, Thrust                                                  |         |          |          |                      |
|         | 186-6290    | 2        | DNAA                                                         |         |          |          |                      |
|         | 186-6290    | 3        | DNAB                                                         |         |          |          |                      |
| 5       | 186-6157    | AR       | Shim Set, Fuel Pump - Contains<br>One each of the Following: |         |          |          |                      |
|         | 186-6156-01 | 1        | .075mm                                                       |         |          |          |                      |
|         | 186-6156-02 | 1        | .125mm                                                       |         |          |          |                      |
|         | 186-6156-03 | 1        | .250mm                                                       |         |          |          |                      |

## Fuel Injector



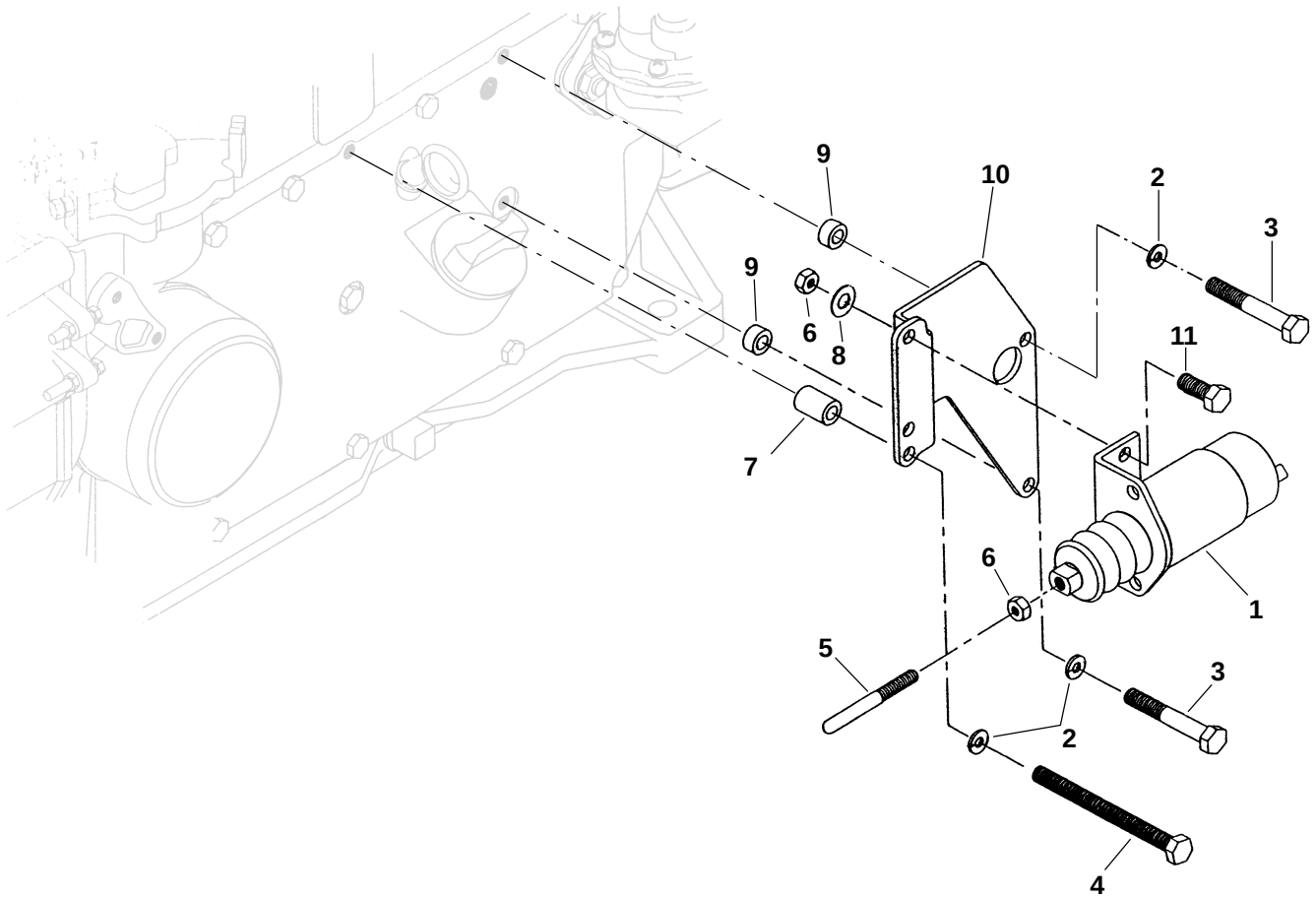
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                            | REF NO. | PART NO. | QTY USED | PART DESCRIPTION |
|---------|----------|----------|---------------------------------------------|---------|----------|----------|------------------|
| 1       | 186-6532 | 2        | DNAA                                        | 6       | 186-6177 | 2        | DNAA             |
|         | 186-6532 | 3        | DNAB                                        |         | 186-6177 | 3        | DNAB             |
| 2       | 186-6533 | 2        | DNAA                                        | 7       | 186-6172 | 2        | DNAA             |
|         | 186-6533 | 3        | DNAB                                        |         | 186-6172 | 3        | DNAB             |
| 3       | 186-6173 | 2        | DNAA                                        | 8       | 186-6174 | 2        | DNAA             |
|         | 186-6173 | 3        | DNAB                                        |         | 186-6174 | 3        | DNAB             |
| 4       | 186-6170 | 1        | DNAA                                        | 9       | 186-6167 | 3        | Tie, Cable       |
|         | 186-6170 | 2        | DNAB                                        | 10      | 186-6534 | 1        | Pipe, Fuel       |
| 5       |          |          | Hose, Bulk (39.4", 1 Meter) (Cut to Length) |         |          |          |                  |
|         | 186-6166 | 1        | 1-1/4"                                      |         |          |          |                  |
|         | 186-6166 | 1        | 3-5/8"                                      |         |          |          |                  |
|         | 186-6166 | 1        | 16"                                         |         |          |          |                  |

# Fuel Control Solenoid DNAA



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                       | REF NO. | PART NO. | QTY USED | PART DESCRIPTION |
|---------|----------|----------|----------------------------------------|---------|----------|----------|------------------|
| 1       | 186-6572 | 1        | Solenoid (12V)                         | 5       | 186-6234 | 1        | Stud             |
| 2       | 186-6916 | 1        | Bracket                                | 6       | 186-6240 | 1        | Washer (M6)      |
| 3       | 186-6577 | 2        | Screw, Hex Head Cap<br>(M6 x 1 x 14mm) | 7       | 186-6917 | 1        | Rod/Bracket Assy |
| 4       | 186-6235 | 4        | Nut, Hex (M6 x 1mm)                    | 8       | 186-6918 | 1        | Rod, Locating    |

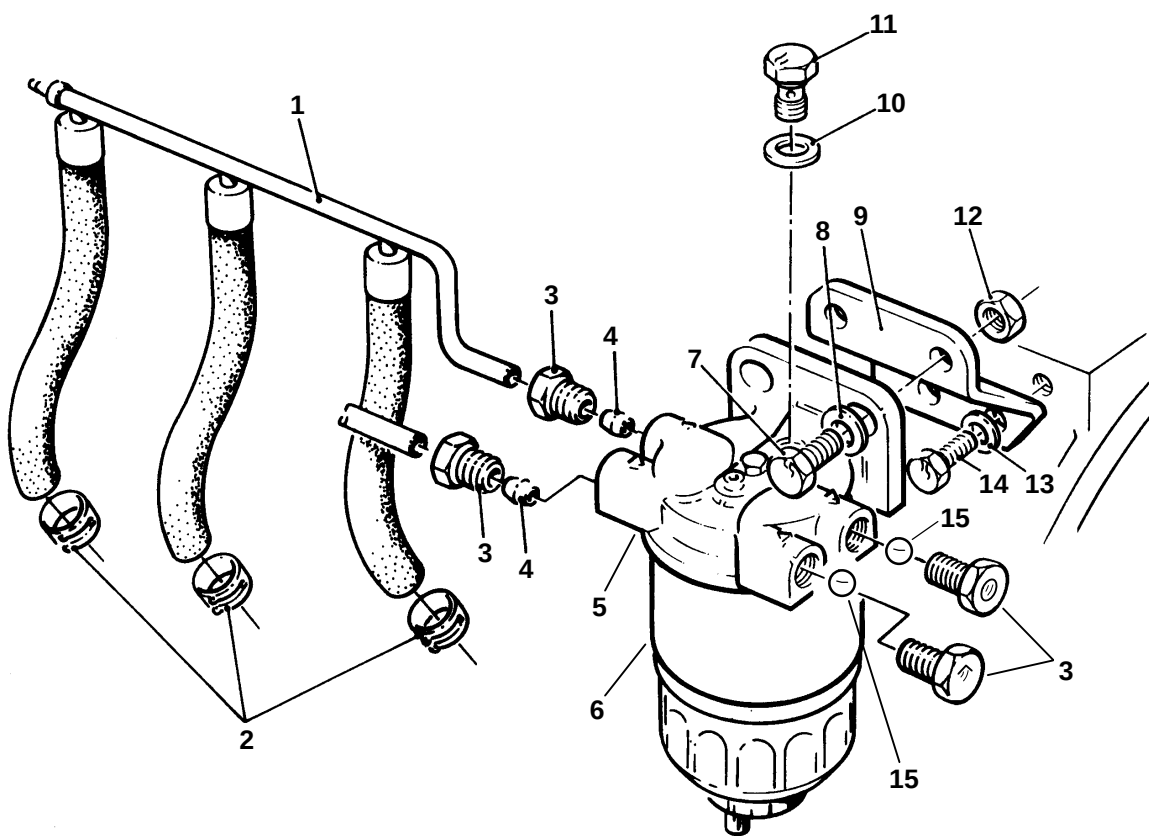
## Fuel Control Solenoid DNAB



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                      | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                    |
|---------|----------|----------|---------------------------------------|---------|----------|----------|-------------------------------------|
| 1       | 186-6572 | 1        | Solenoid                              | 6       | 186-6235 | 3        | Nut, Hex (M6 x 1mm)                 |
| 2       | 186-6295 | 3        | Washer, Spring (1/4")                 | 7       | 186-6606 | 1        | Spacer                              |
| 3       | 186-6667 | 2        | Screw, Hex Head Cap (M6 x 1.2 x 40mm) | 8       | 186-6238 | 2        | Washer (M6)                         |
| 4       | 186-6592 | 1        | Screw, Hex Head Cap (M6 x 1 x 65mm)   | 9       | 186-6605 | 2        | Spacer                              |
| 5       | 186-6604 | 1        | Rod                                   | 10      | 186-6607 | 1        | Bracket, Solenoid                   |
|         |          |          |                                       | 11      | 186-6577 | 2        | Screw, Hex Head Cap (M6 x 1 x 14mm) |

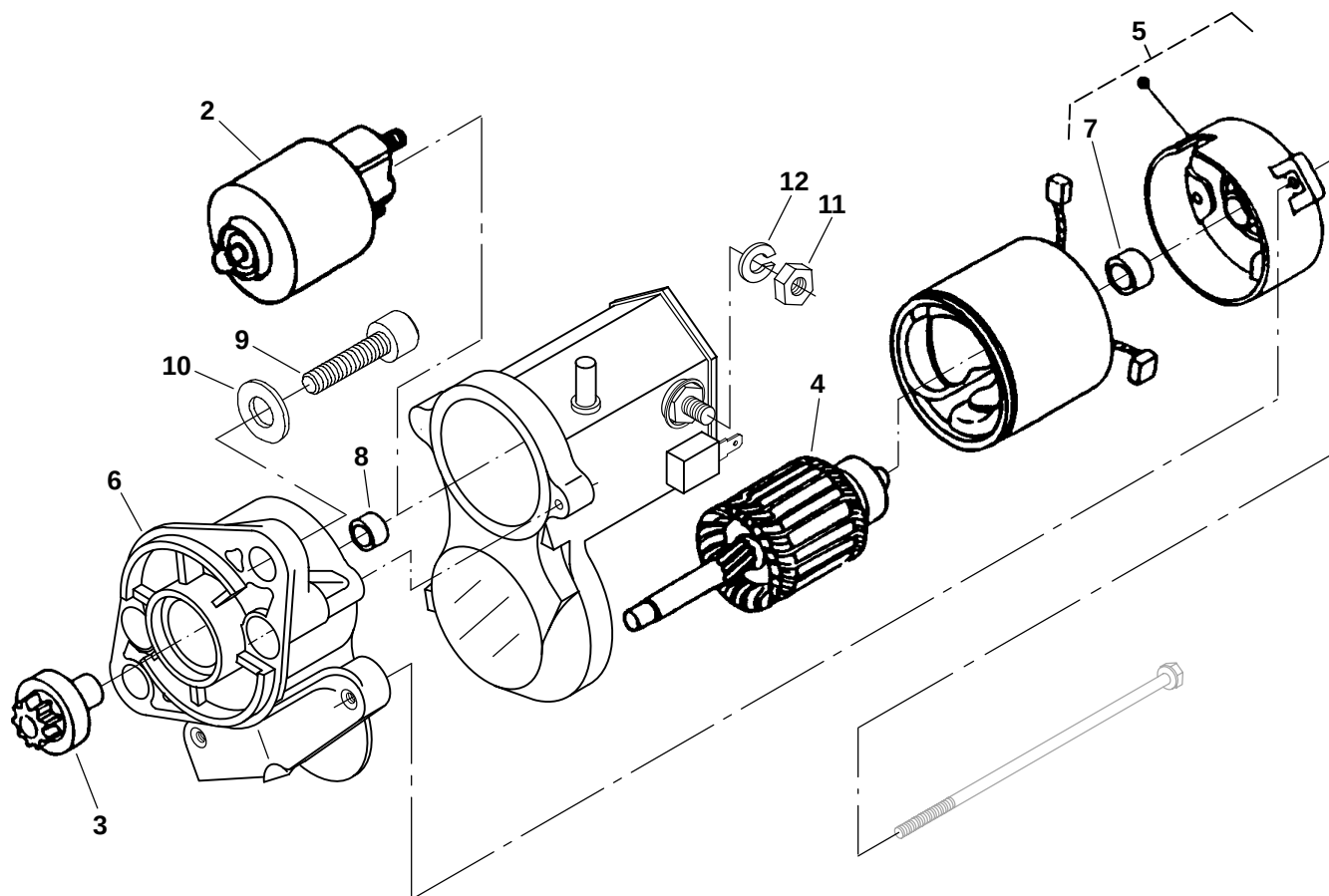


## Water Separator



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                 | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                |
|---------|----------|----------|----------------------------------|---------|----------|----------|---------------------------------|
| 1       | 186-6521 | 1        | Pipe, Fuel DNAA                  | 8       | 186-6527 | 2        | Washer, Spring (M10)            |
|         | 186-6522 | 1        | DNAB                             | 9       | 186-6525 | 1        | Bracket, Mounting               |
| 2       | 186-6161 | 2        | Band, Hose DNAA                  | 10      | 186-6594 | 1        | Washer, Copper                  |
|         | 186-6161 | 3        | DNAB                             | 11      | 186-6797 | 1        | Plug                            |
| 3       | 186-6447 | 4        | Nut, Tube                        | 12      | 186-6528 | 2        | Nut (M10)                       |
| 4       | 186-6446 | 2        | Ferrule, Tube                    | 13      | 186-6529 | 2        | Washer, Spring (M8)             |
| 5       | 186-6523 | 1        | Filter, Fuel (Includes Element)  | 14      | 186-6472 | 2        | Screw, Hex Head Cap (M8 x 20mm) |
| 6       | 186-6524 | 1        | Element, Fuel Filter             | 15      | 186-6795 | 2        | Ball, Sealing                   |
| 7       | 186-6526 | 2        | Screw, Hex Head Cap (M10 x 30mm) |         |          |          |                                 |

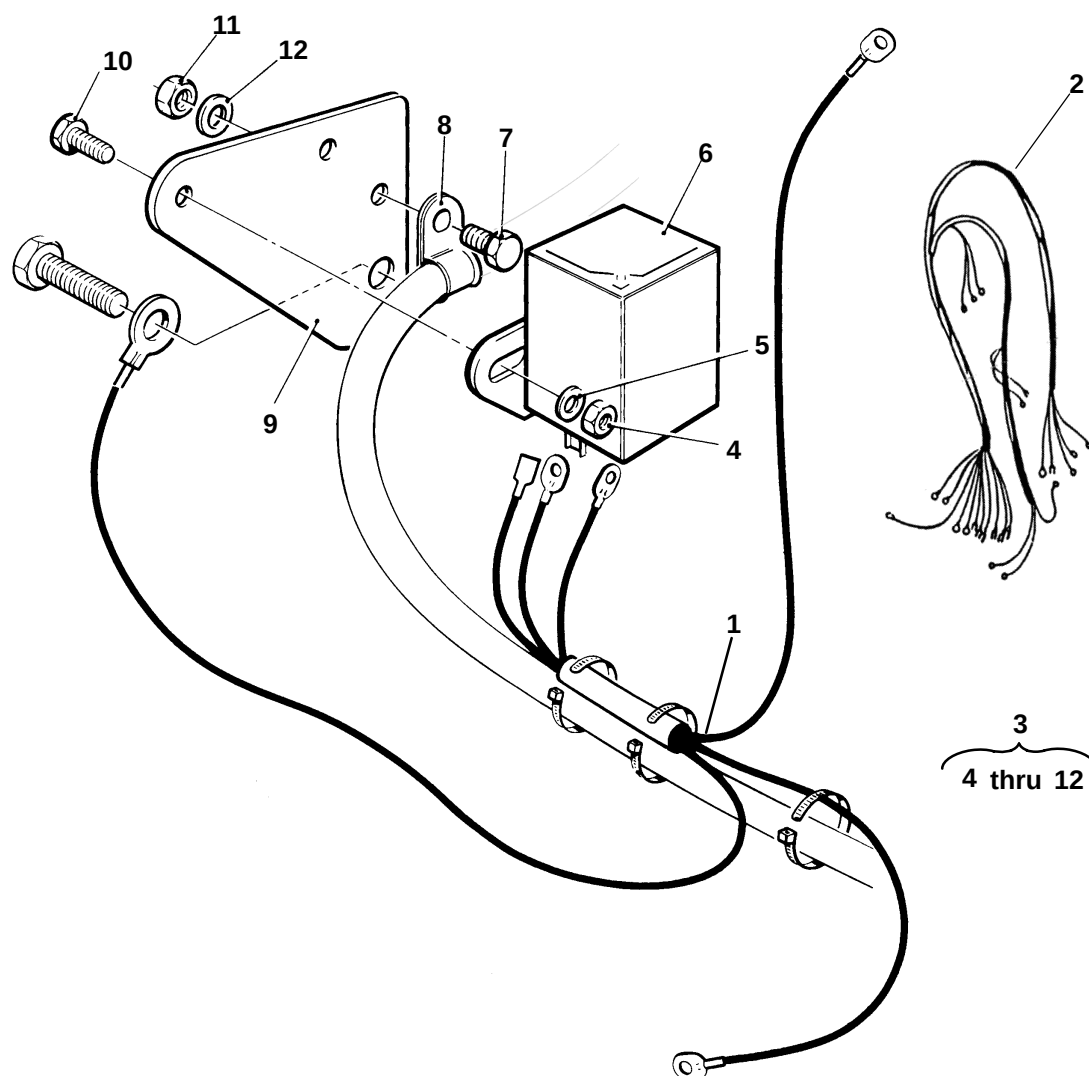
## Starter Components



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION      |
|---------|----------|----------|-----------------------|
|         | 191-2213 | 1        | Starter (1.4kW)       |
| 1       | 191-2215 | 1        | Kit, Starter Brush    |
| 2       | 191-2216 | 1        | Switch                |
| 3       | 191-2217 | 1        | Clutch                |
| 4       | 191-2218 | 1        | Armature              |
| 5       | 191-2219 | 1        | Frame, Commutator End |
| 6       | 191-2220 | 1        | Housing               |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                          |
|---------|----------|----------|-------------------------------------------|
| 7       | 191-2221 | 1        | Bearing, Commutator End                   |
| 8       | 191-2222 | 1        | Bearing, Pinion End                       |
| 9       | 186-6675 | 2        | Screw, Socket Head Cap (M10 x 1.5 x 35mm) |
| 10      | 186-6619 | 2        | Washer, Spring (M10)                      |
| 11      | 186-6274 | 1        | Nut, Hex (M8 x 1.25)                      |
| 12      | 186-6618 | 1        | Washer, Spring (M8)                       |

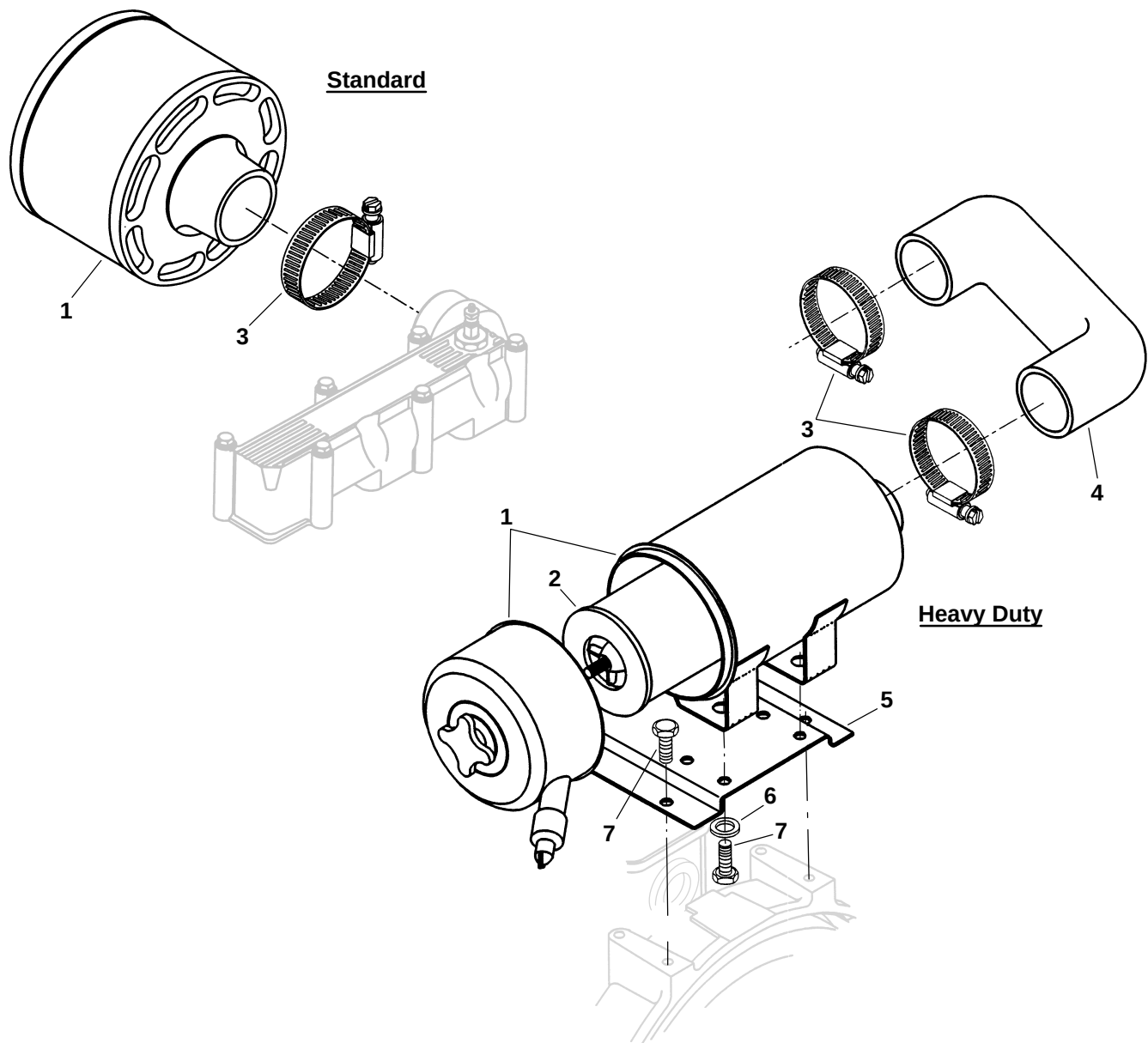
## Manual Preheat



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                    | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                 |
|---------|----------|----------|---------------------------------------------------------------------|---------|----------|----------|----------------------------------|
|         | 300-4959 | 1        | +Kit, Manual Preheat Control (Spec A)                               | 7       | 186-6575 | 1        | *Screw, Hex Head Cap (M6 x 12mm) |
| 1       | 186-6373 | 1        | Harness (Reaches From Relay to Starter and Glow Plugs)              | 8       | 186-6802 | 1        | *Clip                            |
| 2       | 186-6380 | 1        | Harness (Reaches From Switch to Terminal Board and Circuit Breaker) | 9       | 186-6810 | 1        | *Bracket, Mounting               |
| 3       | 186-6804 | 1        | Kit, Glow Plug Relay (Includes Parts Marked *)                      | 10      | 186-6799 | 2        | *Screw, Set (M5 x 12mm)          |
| 4       | 186-6798 | 2        | *Nut (M5)                                                           | 11      | 186-6235 | 1        | *Nut, Hex (M6 x 1mm)             |
| 5       | 186-6131 | 2        | *Washer (M5)                                                        | 12      | 186-6240 | 1        | *Washer (M6)                     |
| 6       | 186-6809 | 1        | *Relay                                                              |         |          |          |                                  |

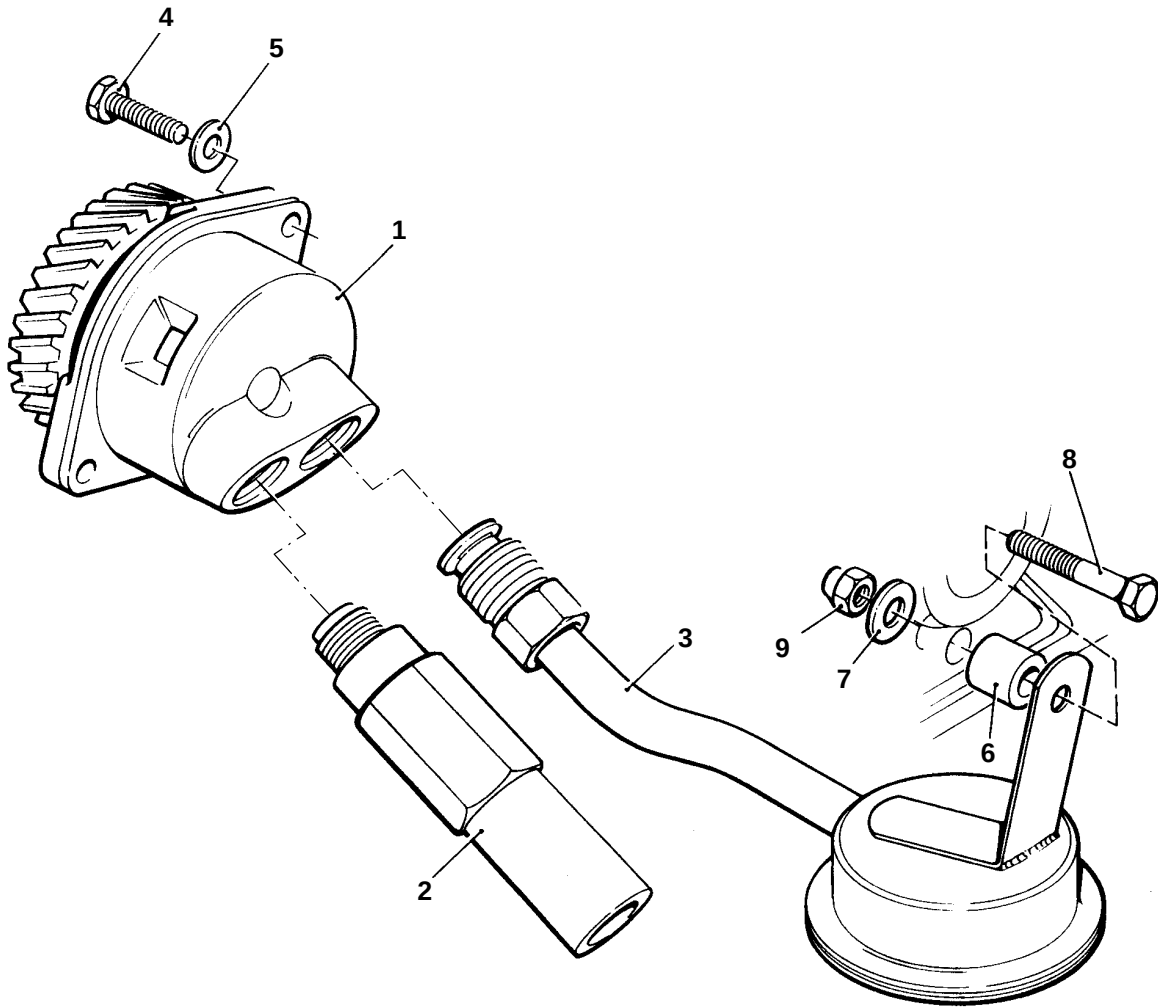
+ – Includes all Parts on This Page and Switch and Seal Listed and Marked (+) on Manual/Remote Control Page.  
 \* – Parts Included in Glow Plug Relay Kit.

Air Cleaner



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                         | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                 |
|---------|----------|----------|--------------------------------------------------------------------------|---------|----------|----------|----------------------------------|
| 1       | 186-6593 | 1        | Cleaner, Air Standard (Disposable)                                       | 3       | 186-6661 | 1        | Clamp, Hose Standard Air Cleaner |
|         | 186-6686 | 1        | Heavy Duty Assy (Includes Element)                                       |         | 186-6661 | 2        | Heavy Duty Air Cleaner           |
| 2       | 186-6685 | 1        | Element, Heavy Duty Air Cleaner (Not available for Standard Air Cleaner) | 4       | 186-6270 | 1        | Hose                             |
|         |          |          |                                                                          | 5       | 186-6817 | 1        | Bracket                          |
|         |          |          |                                                                          | 6       | 186-6529 | 4        | Washer, Spring (M8)              |
|         |          |          |                                                                          | 7       | 186-6680 | 8        | Screw, Hex Head Cap (M8 x 16mm)  |

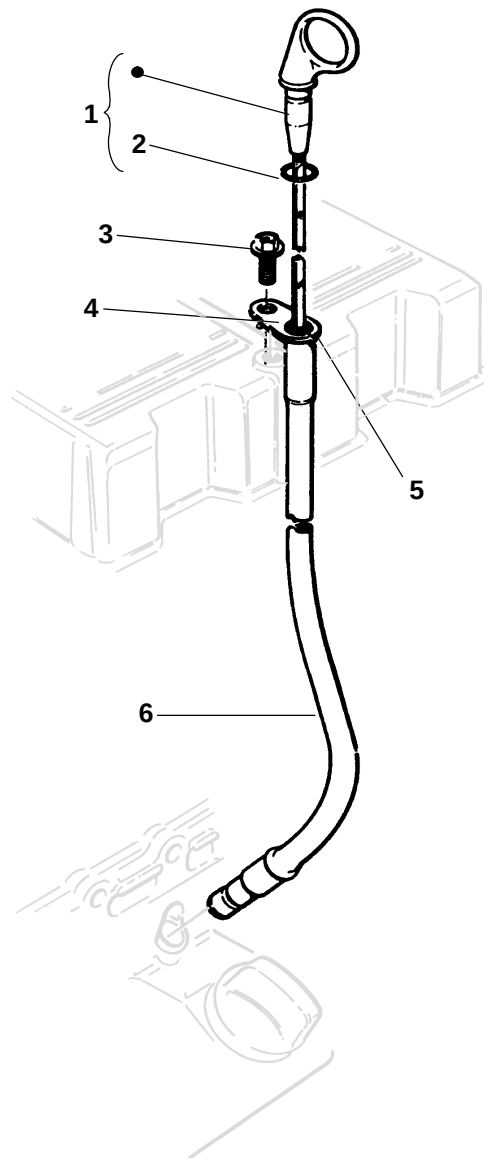
## Oil Pump



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                    |
|---------|----------|----------|-------------------------------------|
| 1       | 186-6030 | 1        | Pump, Oil                           |
| 2       | 186-6031 | 1        | Valve, Oil Relief                   |
| 3       | 186-6032 | 1        | Strainer, Oil                       |
| 4       | 186-6014 | 2        | Screw, Hex Head Cap (M6 x 1 x 25mm) |
| 5       | 186-6015 | 2        | Washer (M6)                         |

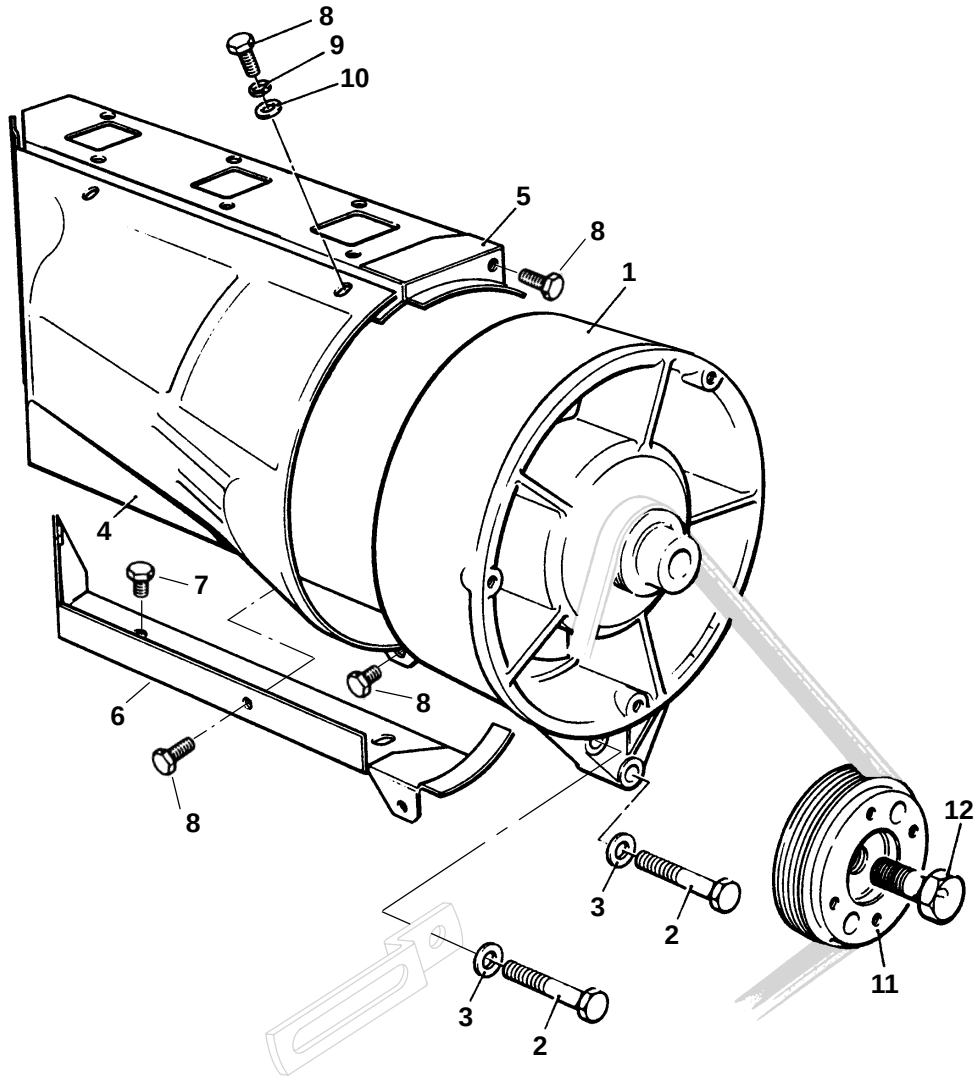
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                |
|---------|----------|----------|---------------------------------|
| 6       | 186-6411 | 1        | Spacer                          |
| 7       | 186-6412 | 1        | Washer (M8)                     |
| 8       | 186-6413 | 1        | Screw, Hex Head Cap (M6 x 35mm) |
| 9       | 186-6414 | 1        | Nut, Lock (M6)                  |

## Extended Oil Level Indicator



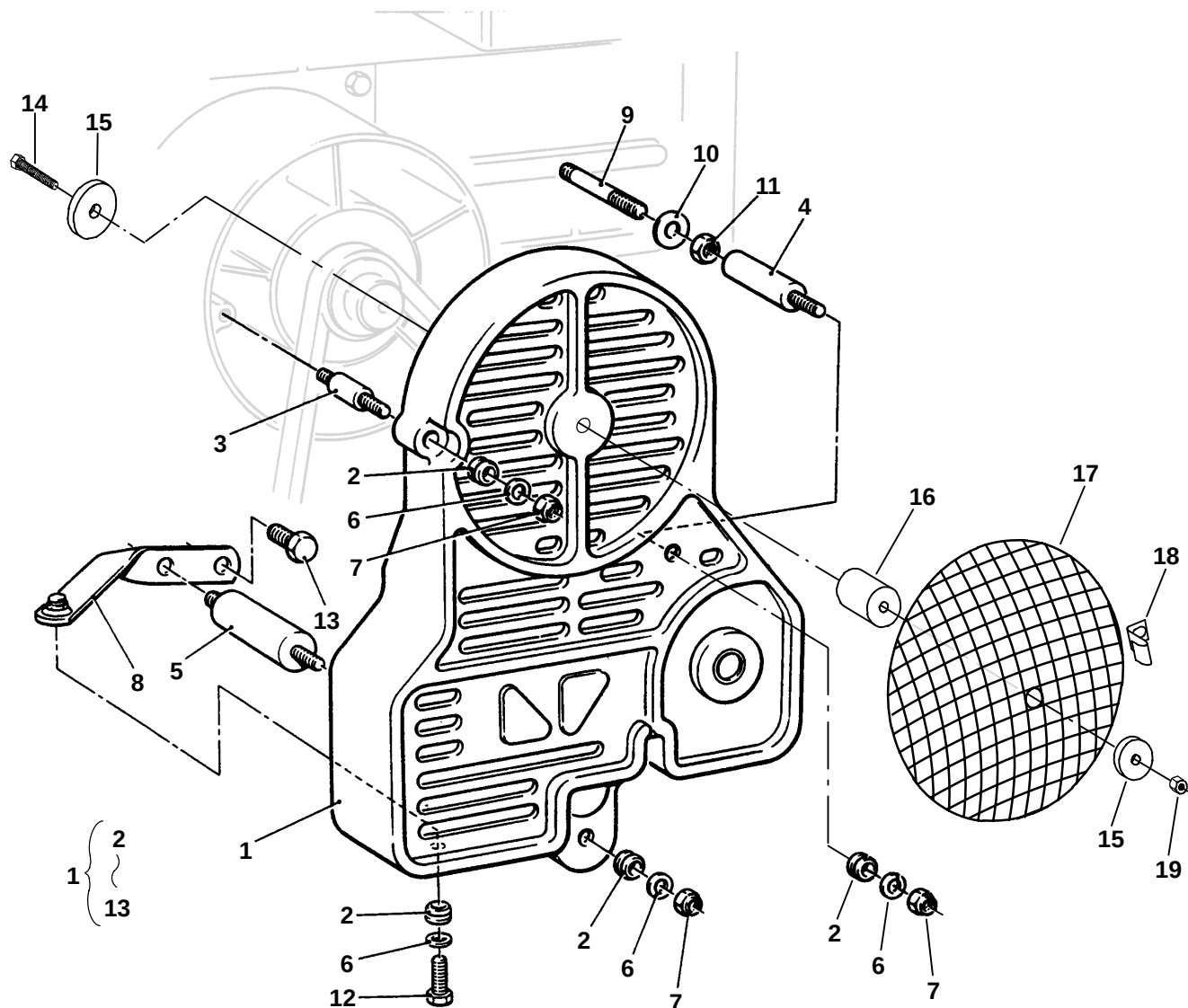
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                      | REF NO. | PART NO. | QTY USED | PART DESCRIPTION |
|---------|----------|----------|---------------------------------------|---------|----------|----------|------------------|
|         |          |          | Kit, Extended Oil Level Indicator     | 3       | 186-6704 | 1        | Screw            |
|         | 123-2127 | 1        | DNAA                                  | 4       | 186-6909 | 1        | Bracket          |
|         | 123-2131 | 1        | DNAB                                  | 5       | 186-6908 | 1        | Grommet          |
| 1       | 186-6907 | 1        | Oil Level Indicator (Includes O'Ring) | 6       |          |          | Tube             |
| 2       | 186-6029 | 1        | O'Ring                                |         | 186-6905 | 1        | DNAA             |
|         |          |          |                                       |         | 186-6906 | 1        | DNAB             |

## Axial Fan



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                  | REF NO.  | PART NO. | QTY USED | PART DESCRIPTION                    |
|---------|----------|----------|-----------------------------------|----------|----------|----------|-------------------------------------|
| 1       | 186-6537 | 1        | Fan Assy, Axial (Includes Pulley) | 8        |          |          | Screw, Hex Head Cap (M6 x 1 x 16mm) |
| 2       | 186-6539 | 3        | Screw, Hex Head Cap (M8 x 50mm)   | 186-6546 | 5        |          | DNAA                                |
| 3       | 186-6187 | 3        | Washer (M8)                       | 186-6546 | 7        |          | DNAB                                |
| 4       |          |          | Cowling, Front                    | 9        |          |          | Washer, Spring (M6)                 |
|         | 186-6540 | 1        | DNAA                              | 186-6038 | 7        |          | DNAA                                |
|         | 186-6541 | 1        | DNAB                              | 186-6038 | 9        |          | DNAB                                |
| 5       |          |          | Cowling, Top                      | 10       |          |          | Washer (M6)                         |
|         | 186-6542 | 1        | DNAA                              | 186-6015 | 7        |          | DNAA                                |
|         | 186-6543 | 1        | DNAB                              | 186-6015 | 9        |          | DNAB                                |
| 6       |          |          | Cowling, Bottom                   | 11       |          |          | Pulley, Crankshaft                  |
|         | 186-6544 | 1        | DNAA                              | 186-6547 | 1        |          | DNAA                                |
|         | 186-6545 | 1        | DNAB                              | 186-6548 | 1        |          | DNAB                                |
| 7       | 186-6037 | 2        | Screw, Hex Head Cap (M6 x 12mm)   | 12       | 186-6196 | 1        | Bolt                                |

## Belt Guard

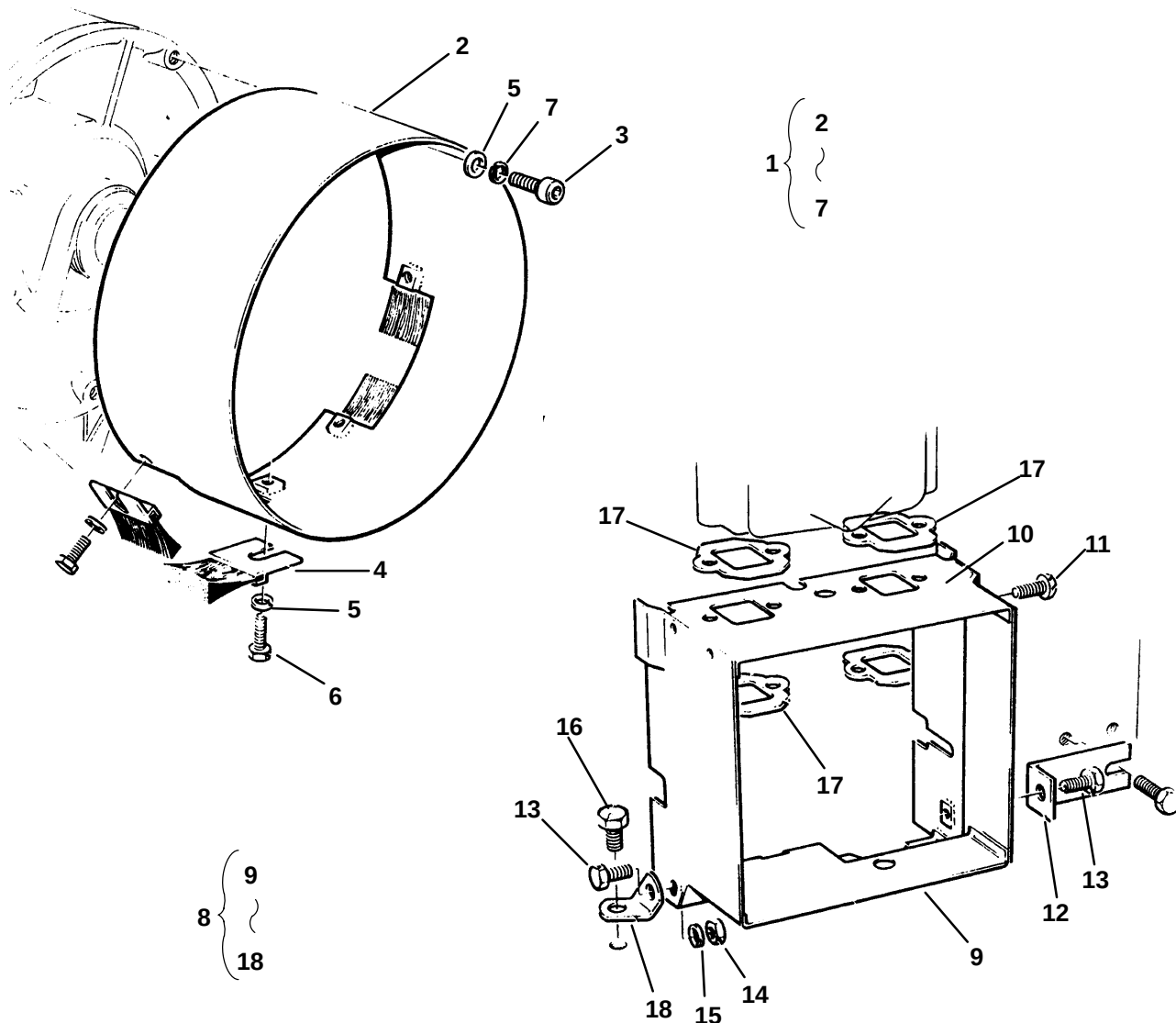


| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                          | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                    |
|---------|----------|----------|-------------------------------------------|---------|----------|----------|-------------------------------------|
| 1       | 186-6560 | 1        | Guard Assy, Fan (Includes Parts Marked *) | 13      | 186-6570 | 1        | *Screw, Hex Head Cap (M10 x 20mm)   |
| 2       | 186-6561 | 4        | *Grommet                                  | 14      | 186-6677 | 1        | Screw, Hex Head Cap (M6 x 1 x 35mm) |
| 3       | 186-6562 | 1        | *Pillar, Mounting                         | 15      | 186-6625 | 2        | Washer, Fender (M6)                 |
| 4       | 186-6563 | 1        | *Pillar, Mounting                         | 16      | 186-6627 | 1        | Spacer (.75" Length)                |
| 5       | 186-6564 | 1        | *Pillar, Mounting                         | 17      | 186-6628 | 1        | Guard, Finger                       |
| 6       | 186-6015 | 4        | *Washer (M6)                              | 18      | 186-6626 | 1        | Clamp, Retainer                     |
| 7       | 186-6414 | 3        | *Nut, Self Lock (M6)                      | 19      | 186-6678 | 1        | Nut, Nylock (M6 x 1)                |
| 8       | 186-6565 | 1        | *Bracket                                  |         |          |          |                                     |
| 9       | 186-6566 | 1        | *Stud (M8)                                |         |          |          |                                     |
| 10      | 186-6567 | 1        | *Washer (M8)                              |         |          |          |                                     |
| 11      | 186-6568 | 1        | *Nut (M8)                                 |         |          |          |                                     |
| 12      | 186-6569 | 1        | *Screw, Hex Head Cap (M6 x 20mm)          |         |          |          |                                     |

\* – Parts Included in Fan Guard Assy.



## Air Inlet Duct



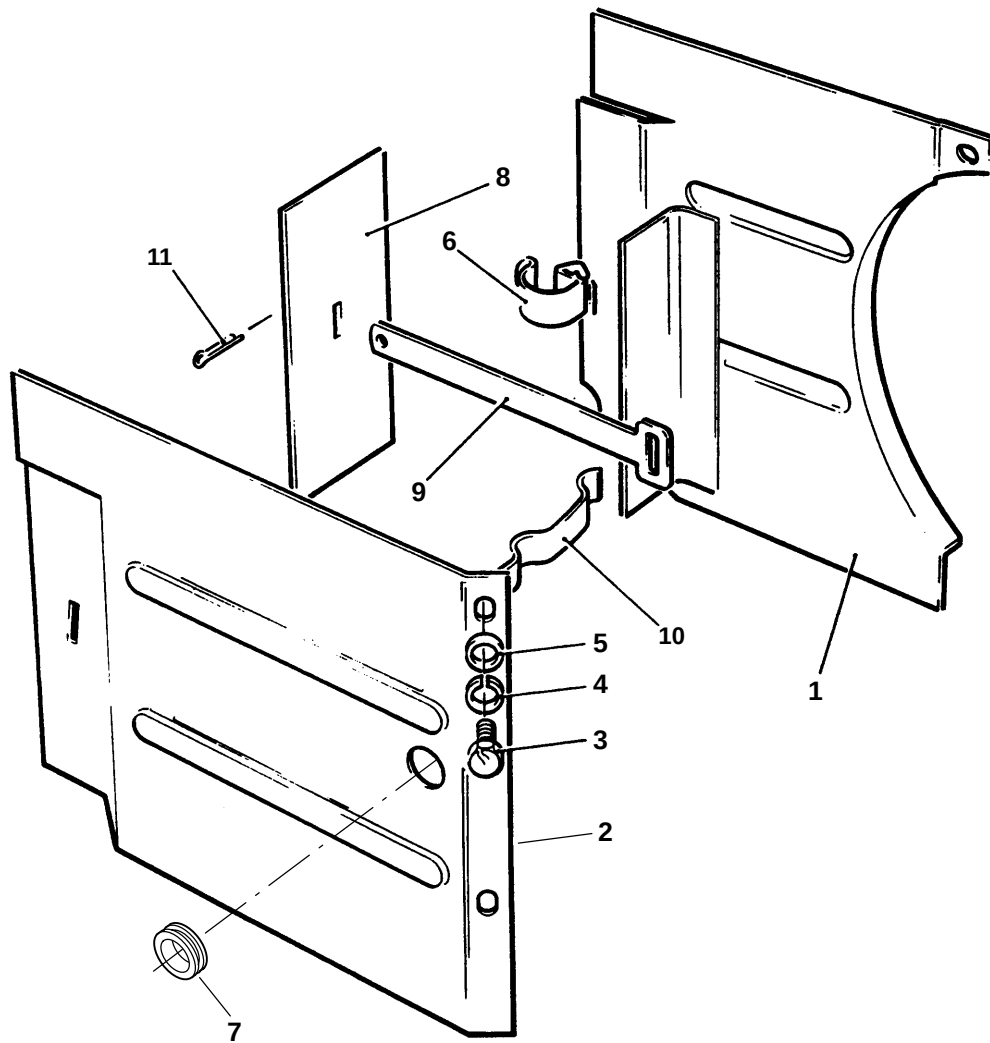
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                               |
|---------|----------|----------|------------------------------------------------|
| 1       | 405-6106 |          | Kit, Air Inlet Duct (Includes Parts Marked *)  |
| 2       | 186-7091 | 1        | *Adapter, Duct                                 |
| 3       | 800-2033 | 3        | *Screw, Hex Head Cap (M6 x 16mm)               |
| 4       | 186-7088 | 4        | *Holder, Brush                                 |
| 5       | 186-6240 | 7        | *Washer                                        |
| 6       | 186-6037 | 4        | *Screw Hex Head Cap (M6 x 16mm)                |
| 7       | 186-6038 | 3        | *Washer, Spring                                |
| 8       |          |          | Kit, Air Outlet Duct (Includes Parts Marked +) |
|         | 405-6107 | 1        | DNAA                                           |
|         | 405-6153 | 1        | DNAB                                           |
| 9       |          |          | +Adapter, Duct                                 |
|         | 186-7092 | 1        | DNAA                                           |
|         | 186-7095 | 1        | DNAB                                           |

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                 |
|---------|----------|----------|----------------------------------|
| 10      |          |          | +Panel, Top                      |
|         | 186-7093 | 1        | DNAA                             |
|         | 186-7096 | 1        | DNAB                             |
| 11      | 186-7205 | 4        | +Screw, Hex Head Cap             |
| 12      | 186-7094 | 1        | +Bracket                         |
| 13      | 186-6575 | 2        | +Screw, Hex Head Cap (M6 x 12mm) |
| 14      | 186-6235 | 1        | +Nut                             |
| 15      | 186-6240 | 1        | +Washer                          |
| 16      | 186-6679 | 1        | +Screw, Hex Head Cap (M8 x 14mm) |
| 17      | 186-6206 | 1        | +Gasket                          |
| 18      | 186-7097 | 1        | +Bracket                         |

\* – Parts Included in Air Inlet Duct Kit.

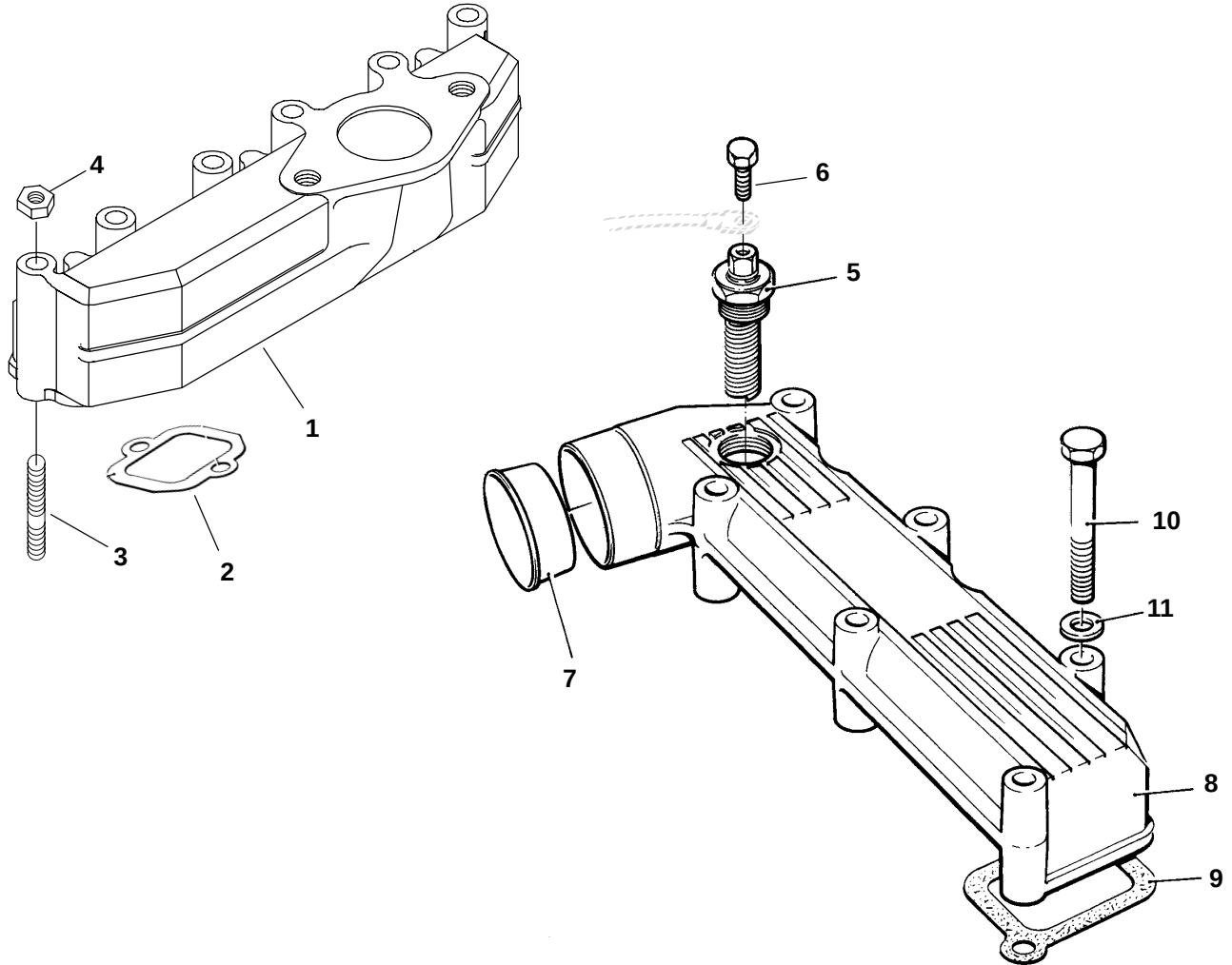
+ – Parts Included in Air Outlet Duct Kit.

## Air Shield



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION          | REF NO. | PART NO. | QTY USED | PART DESCRIPTION |
|---------|----------|----------|---------------------------|---------|----------|----------|------------------|
| 1       | 186-6550 | 1        | Shield, Gear End Side     | 9       |          |          | Tie              |
| 2       | 186-6551 | 1        | Shield, Flywheel End Side |         | 186-6555 | 1        | DNAA             |
| 3       | 186-6037 | 3        | Screw, Set (M6 x 12mm)    |         | 186-6555 | 2        | DNAB             |
| 4       | 186-6597 | 3        | Washer, Spring (M6)       | 10      |          |          | Clip, Spring     |
| 5       | 186-6015 | 2        | Washer (M6)               |         | 186-6556 | 1        | DNAA             |
| 6       | 186-6552 | 2        | Clip                      |         | 186-6556 | 2        | DNAB             |
| 7       | 186-6584 | 1        | Grommet                   | 11      |          |          | Pin, Cotter      |
| 8       |          |          | Baffle, Air               |         | 186-6557 | 1        | DNAA             |
|         | 186-6554 | 1        | DNAA                      |         | 186-6557 | 2        | DNAB             |
|         | 186-6554 | 2        | DNAB                      |         |          |          |                  |

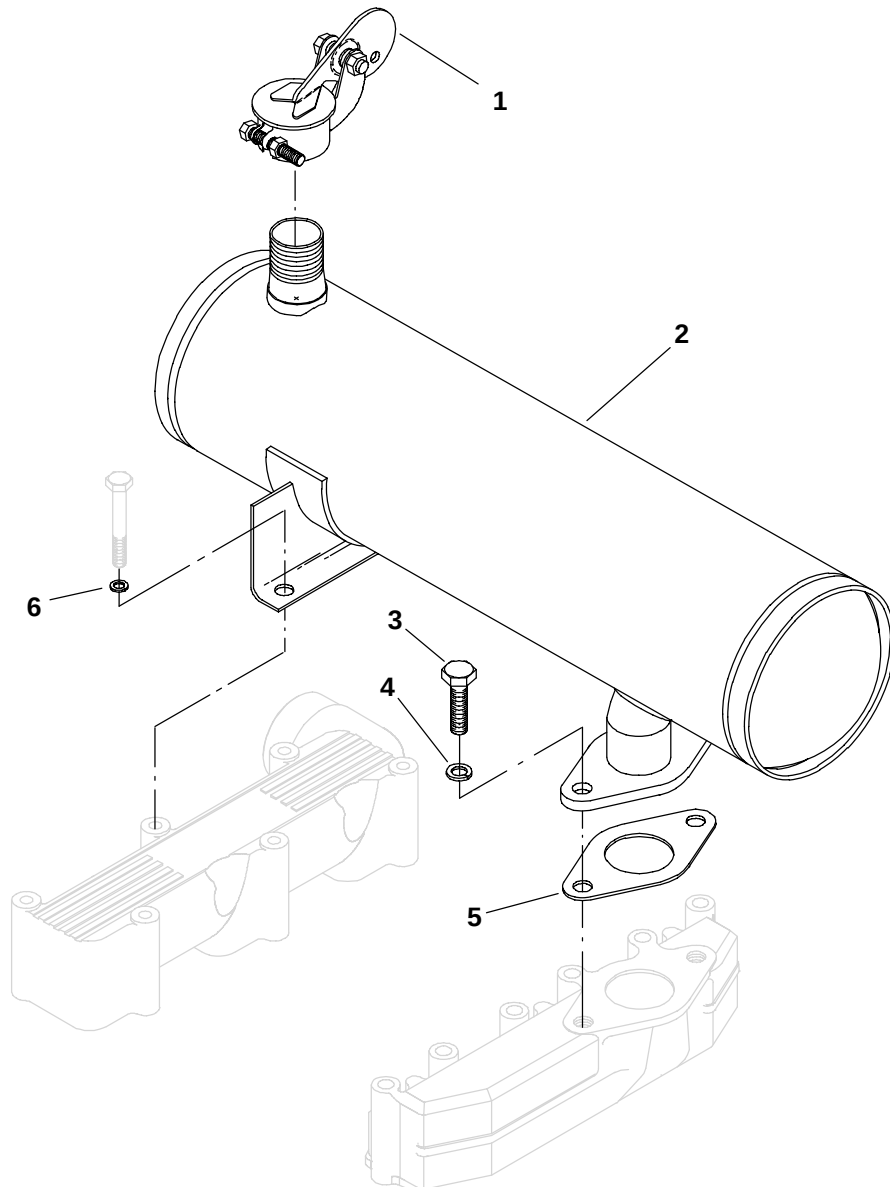
## Manifold



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                              |
|---------|----------|----------|-----------------------------------------------|
| 1       |          |          | Manifold, Exhaust (Includes Manifold Gaskets) |
|         | 186-7001 | 1        | DNAA                                          |
|         | 186-6456 | 1        | DNAB                                          |
| 2       |          |          | Gasket, Exhaust Manifold                      |
|         | 186-6206 | 2        | DNAA                                          |
|         | 186-6206 | 3        | DNAB                                          |
| 3       |          |          | Stud (M6)                                     |
|         | 186-6208 | 4        | DNAA                                          |
|         | 186-6208 | 6        | DNAB                                          |
| 4       |          |          | Nut (M6 x 1)                                  |
|         | 186-6209 | 4        | DNAA                                          |
|         | 186-6209 | 6        | DNAB                                          |
| 5       | 186-6459 | 1        | Plug, Heater (Includes Screw)                 |
| 6       | 186-6841 | 1        | Screw                                         |

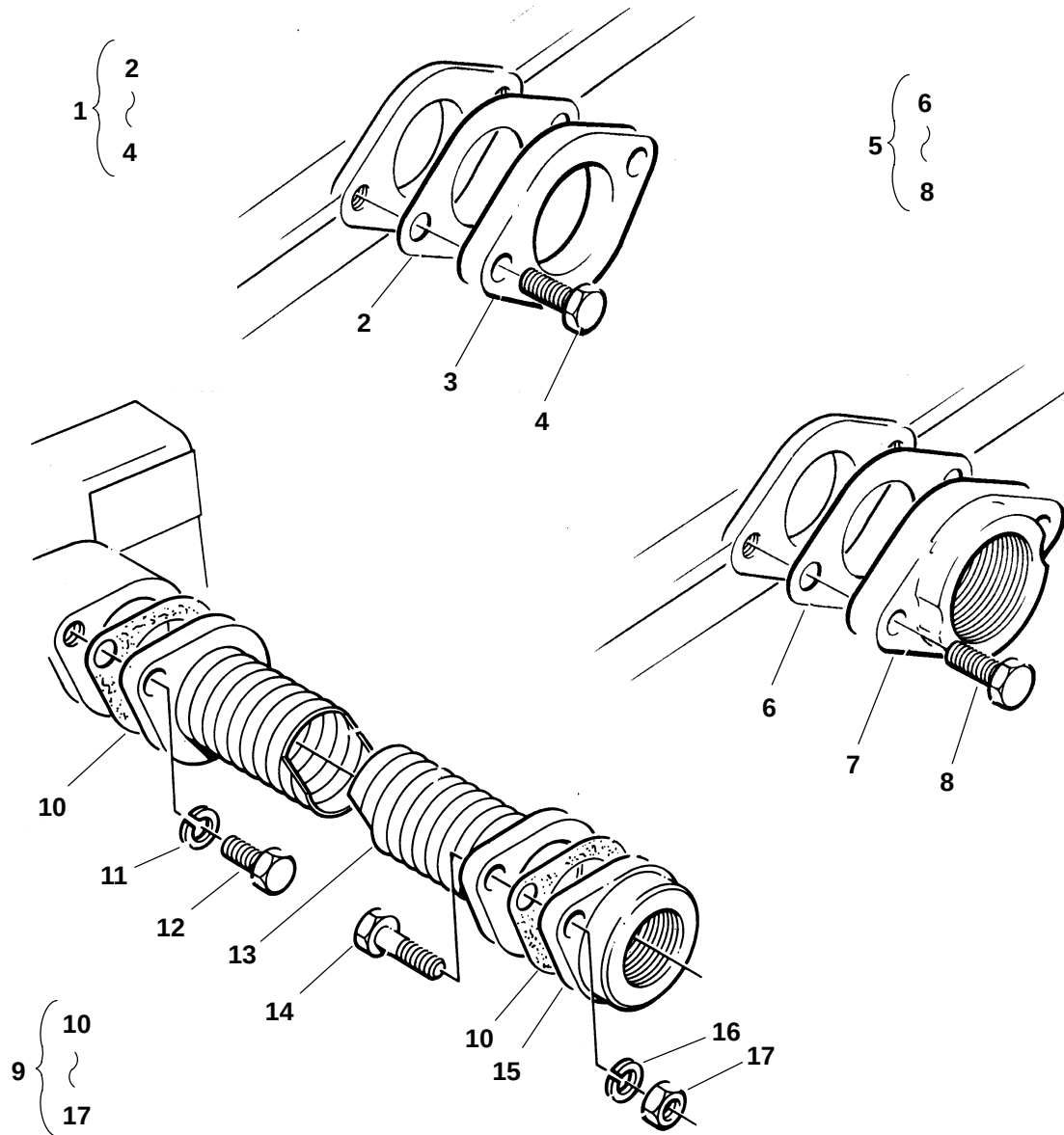
| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                            |
|---------|----------|----------|---------------------------------------------|
| 7       | 186-6454 | 1        | Restrictor, Inlet Manifold (Includes Decal) |
| 8       |          |          | Manifold, Inlet                             |
|         | 186-6728 | 1        | DNAA                                        |
|         | 186-6452 | 1        | DNAB                                        |
| 9       |          |          | Gasket, Inlet Manifold                      |
|         | 186-6202 | 4        | DNAA                                        |
|         | 186-6202 | 6        | DNAB                                        |
| 10      |          |          | Bolt (M6 x 1 x 75mm)                        |
|         | 186-6203 | 4        | DNAA                                        |
|         | 186-6203 | 6        | DNAB                                        |
| 11      |          |          | Washer (M6)                                 |
|         | 186-6015 | 4        | DNAA                                        |
|         | 186-6015 | 6        | DNAB                                        |

## Muffler



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                     | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                              |
|---------|----------|----------|------------------------------------------------------|---------|----------|----------|-----------------------------------------------|
|         | 155-3140 | 1        | Kit, Industrial Muffler<br>(Includes Parts Marked *) | 3       | 186-6676 | 2        | *Screw, Hex Head Cap<br>(M10 x 1.5 x 20mm)    |
| 1       |          |          | Cap, Rain<br>Spec A (1-1/2")                         | 4       | 186-6619 | 2        | *Washer, Flat (M10)                           |
|         | 186-6939 | 1        | * Industrial                                         | 5       | 186-6683 | 1        | *Gasket, Muffler (Fibre)                      |
|         | 186-6981 | 1        | Critical                                             | 6       | 186-6933 | 2        | *Washer                                       |
|         | 186-6634 | 1        | Begin Spec B (2")                                    |         |          |          |                                               |
| 2       |          |          | Muffler<br>Spec A                                    |         |          |          | * – Parts Included in Industrial Muffler Kit. |
|         | 186-6612 | 1        | * Industrial                                         |         |          |          |                                               |
|         | 186-6982 | 1        | Critical                                             |         |          |          |                                               |
|         | 186-6982 | 1        | Begin Spec B (Critical)                              |         |          |          |                                               |

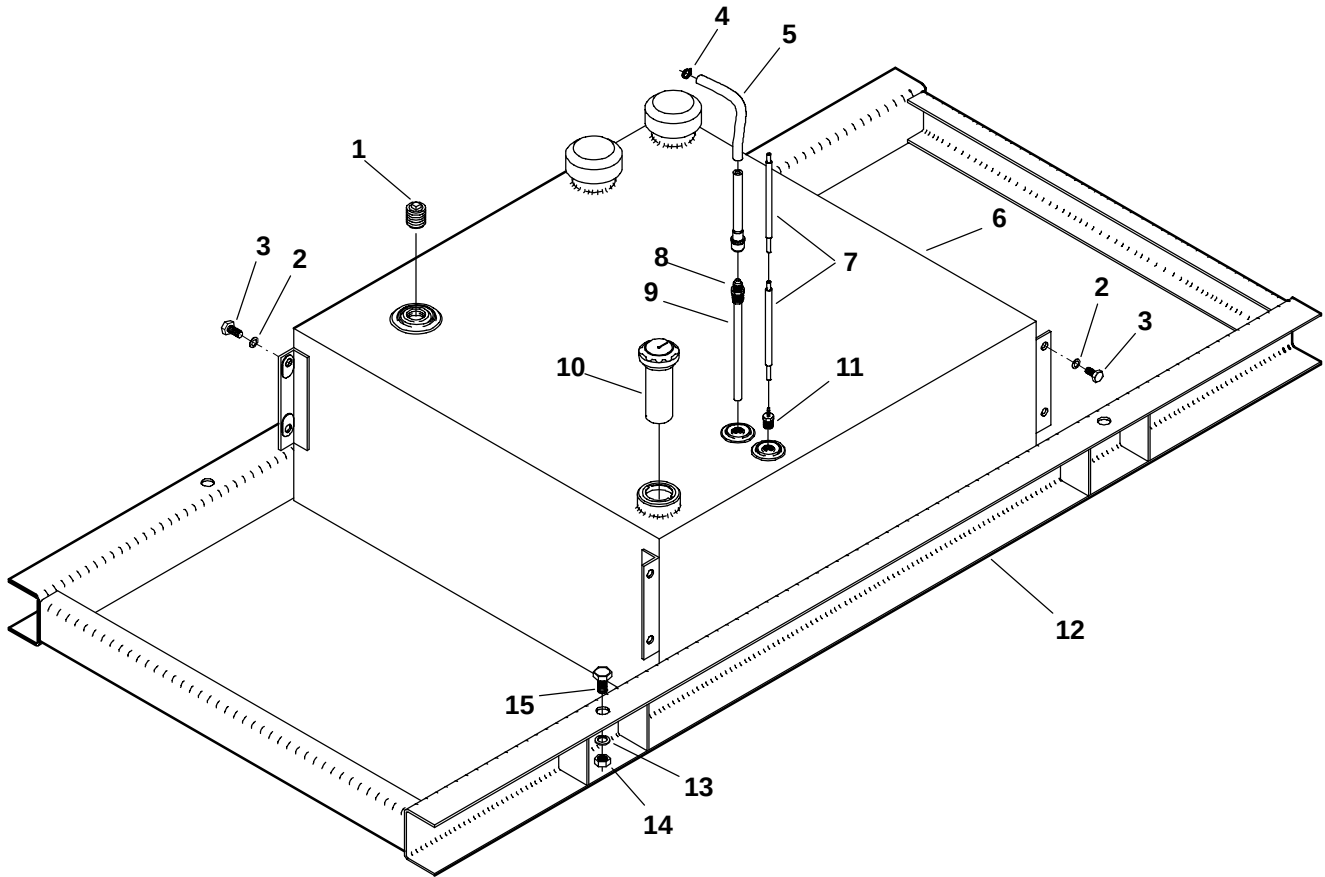
## Exhaust Flanges



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                      | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                        |
|---------|----------|----------|-----------------------------------------------------------------------|---------|----------|----------|---------------------------------------------------------|
| 1       | 155-3210 | 1        | Kit, Unthreaded Exhaust Flange<br>(Includes Gasket, Flange and Screw) | 9       | 155-3211 | 1        | Kit, Flexible Exhaust Pipe<br>(Includes Parts Marked *) |
| 2       | 186-6683 | 1        | Gasket                                                                | 10      | 186-6683 | 2        | *Gasket                                                 |
| 3       | 186-6845 | 1        | Flange, Exhaust                                                       | 11      | 186-6671 | 2        | *Washer, Spring                                         |
| 4       | 186-6570 | 2        | Screw, Hex Head Cap                                                   | 12      | 186-6672 | 2        | *Screw, Hex Head Cap<br>(M10 x 30mm)                    |
| 5       | 155-3209 | 1        | Kit, Threaded Exhaust Flange<br>(Includes Gasket, Flange and Screw)   | 13      | 186-6847 | 1        | *Pipe, Flexible Exhaust                                 |
| 6       | 186-6683 | 1        | Gasket                                                                | 14      | 186-6848 | 4        | *Bolt (3/8" UNF x 1-3/4")                               |
| 7       | 186-7036 | 1        | Flange, NPT Exhaust                                                   | 15      | 186-6843 | 2        | *Flange, Mating                                         |
| 8       | 186-6672 | 2        | Screw, Hex Head Cap<br>(M10 x 1.5 x 30mm)                             | 16      | 186-6849 | 4        | *Washer, Spring                                         |
|         |          |          |                                                                       | 17      | 186-6900 | 4        | *Nut                                                    |

\* – Parts Included in Flexible Exhaust Pipe Kit.

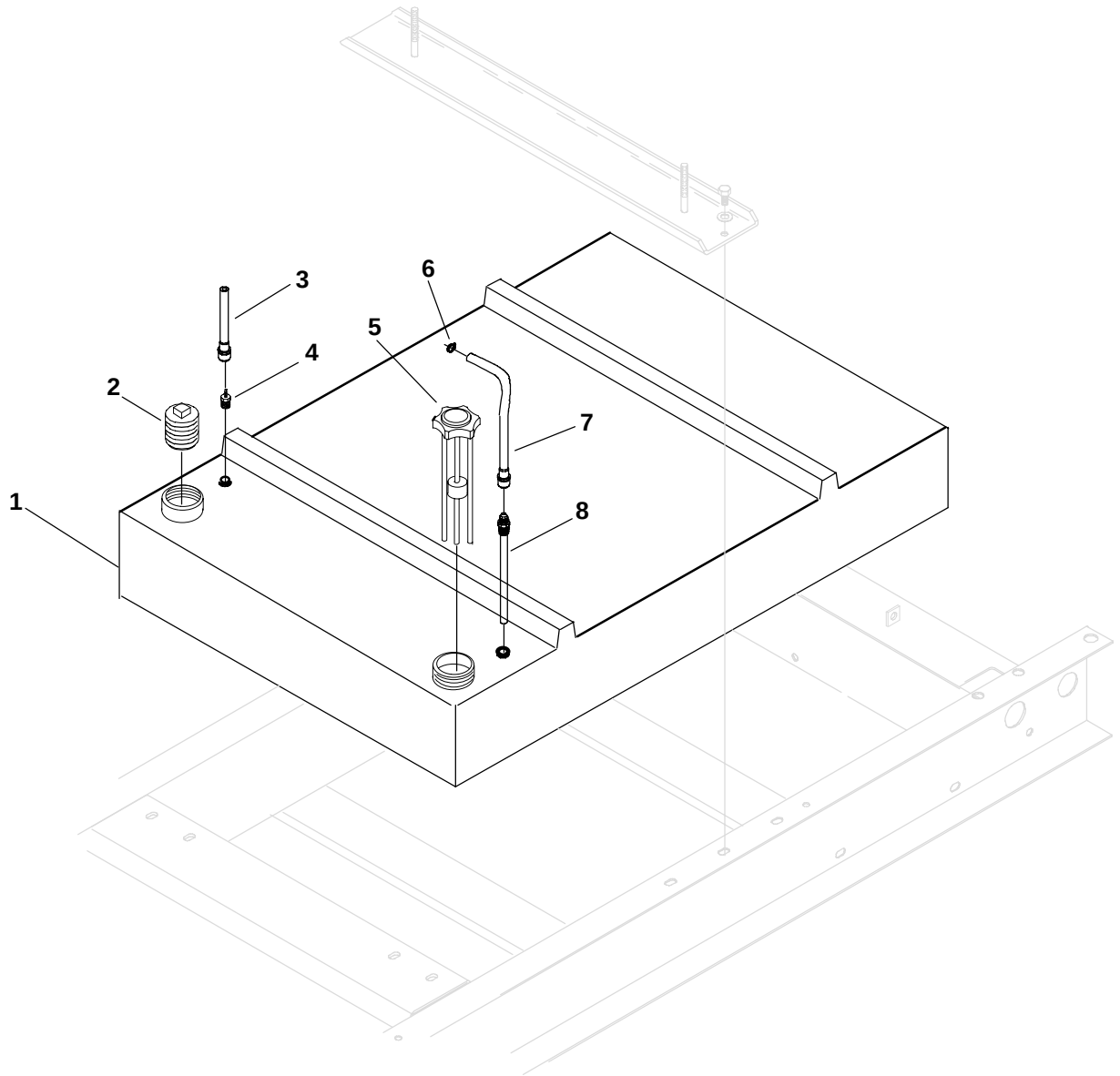
## Fuel Tank (Spec A)



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                           | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                            |
|---------|----------|----------|------------------------------------------------------------|---------|----------|----------|---------------------------------------------|
|         | 415-0838 | 1        | Kit, Fuel Tank<br>Single Wall (Includes Parts<br>Marked *) | 8       | 186-6453 | 1        | °Adapter, Inlet Hose                        |
|         | 415-0839 | 1        | Dual Wall (Includes Parts<br>Marked °)                     | 9       | 186-6609 | 1        | *Tube, Pickup<br>Cap, Fuel Gauge            |
| 1       | 186-6636 | 1        | °Plug (1-1/4 NPT) (Dual Wall<br>Tank)                      | 10      | 186-6608 | 1        | * Single Wall Tank                          |
| 2       | 186-6619 | 8        | °Washer, Spring Flat (M10)                                 |         | 186-6642 | 1        | Dual Wall Tank                              |
| 3       | 186-6676 | 8        | °Screw, Hex Head Cap<br>(M10 x 1.5 x 20mm)                 | 11      | 186-6515 | 1        | °*Barb, Hose (1/8" x 1/4" NPT)              |
| 4       | 186-6536 | 1        | °Clamp, Hose                                               | 12      | 186-6313 | 1        | °Spacer, Skid                               |
| 5       | 186-6353 | 1        | °Hose, Fuel Inlet                                          | 13      | 186-6620 | 4        | °Washer, Spring (M12)                       |
| 6       |          |          | Tank, Fuel                                                 | 14      | 186-6600 | 4        | °Nut, Hex (M12 x 1.75)                      |
|         | 186-6321 | 1        | * Single Wall (W/O Vent Caps)                              | 15      | 186-6759 | 4        | °Screw, Hex Head Cap<br>(M12 x 1.75 x 30mm) |
|         | 186-6312 | 1        | ° Dual Wall (W/Vent Caps)                                  |         |          |          |                                             |
| 7       | 186-6166 | 1        | °Hose, Leak-Off                                            |         |          |          |                                             |

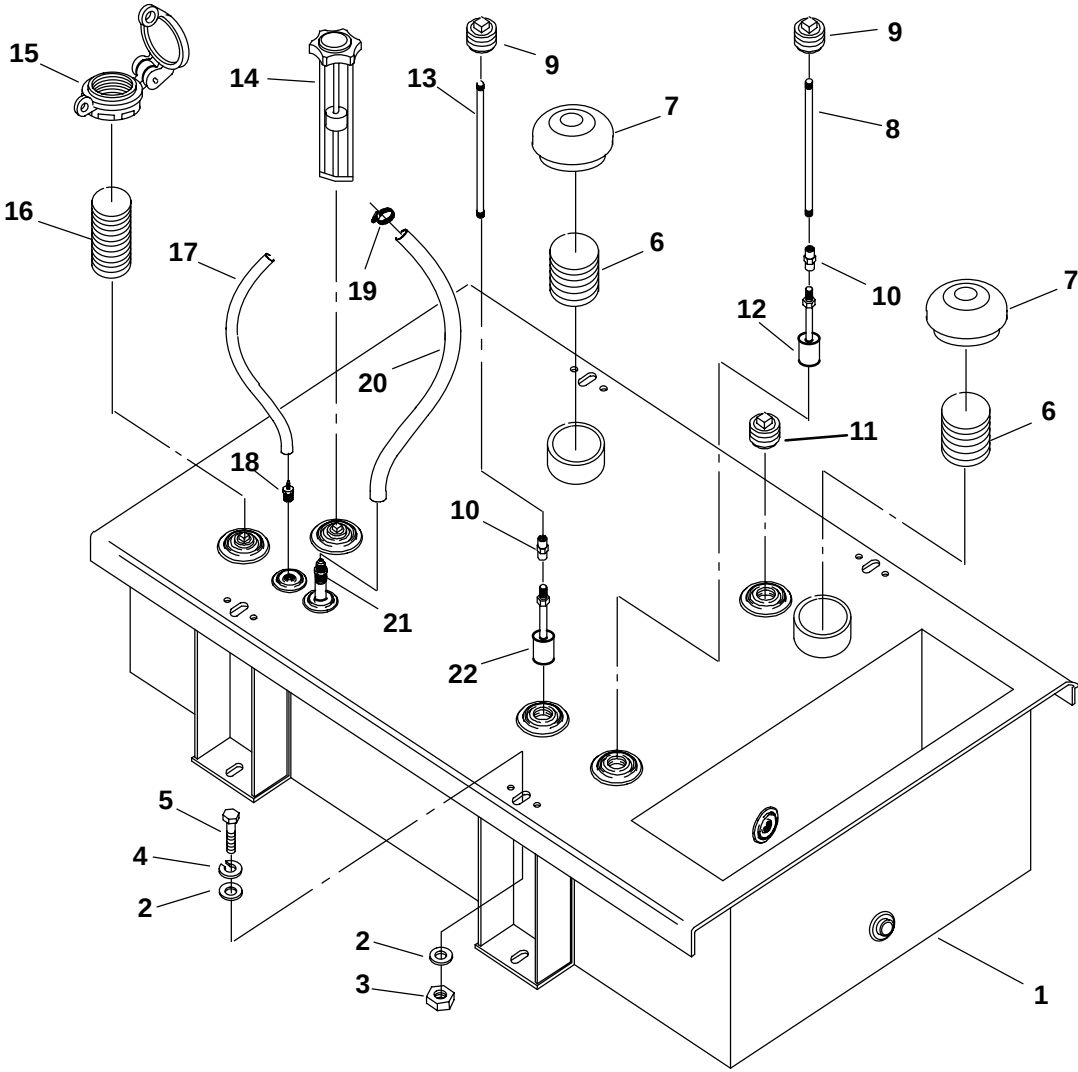
\* – Parts Included in Single Wall Fuel Tank Kit.  
° – Parts Included in Dual Wall Fuel Tank Kit.

## Single Wall Fuel Tank (Begin Spec B)



| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION          | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION |
|------------|-------------|-------------|------------------------------|------------|-------------|-------------|---------------------|
| 1          | 186-7108    | 1           | Tank, Single Wall Fuel       | 5          | 186-7073    | 1           | Cap, Fuel Gauge     |
| 2          | 186-6636    | 1           | Plug (1-1/4 NPT)             | 6          | 186-6536    | 1           | Clamp, Hose         |
| 3          | 186-6166    | 1           | Hose, Leak-Off               | 7          | 186-7056    | 1           | Hose, Suction       |
| 4          | 186-6515    | 1           | Barb, Hose (1/8" x 1/4" NPT) | 8          | 186-7074    | 1           | Tube, Pickup        |

## Dual Wall Fuel Tank (Begin Spec B)

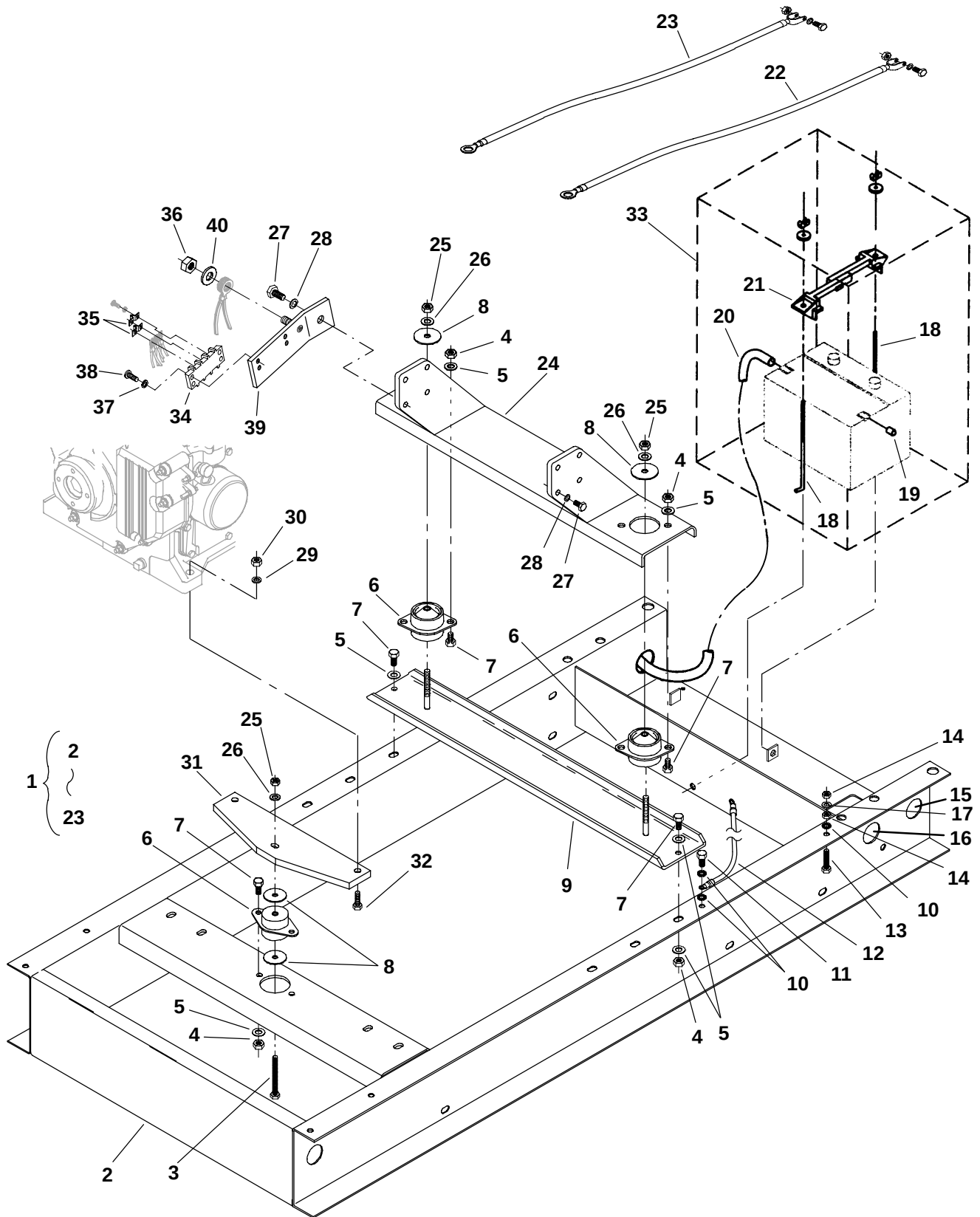




# **Dual Wall Fuel Tank (Begin Spec B)**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                           | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION          |
|---------|-------------|----------|--------------------------------------------|---------|-------------|----------|---------------------------|
| 1       |             |          | Tank, Dual Wall Fuel                       | 13      |             |          | Nipple, Pipe              |
|         | 186-7174-01 | 1        | 23 Gallon (12" Tall)                       |         | 186-7176    | 1        | 23 Gallon Tank            |
|         | 186-7174-02 | 1        | 41 Gallon (24" Tall)                       |         | 186-7177    | 1        | 41 Gallon Tank (DNAB)     |
|         |             |          | (DNAB Only)                                | 14      |             |          | Cap, Fuel Gauge           |
| 2       | 186-6978    | 8        | Washer, Flat (M12)                         |         | 186-7185-01 | 1        | 6.73" (w/23 Gallon Tank)  |
| 3       | 186-6600    | 4        | Nut, Hex (M12 x 1.75)                      |         | 186-7185-02 | 1        | 11.23" (w/41 Gallon Tank) |
| 4       | 186-6620    | 4        | Washer, Spring (M12)                       |         |             |          | (DNAB Only)               |
| 5       | 800-2114    | 4        | Screw, Hex Head Cap<br>(M12 x 1.75 x 40mm) | 15      | 186-7182    | 1        | Cap, Flip Top (2")        |
| 6       | 186-7183    | 2        | Nipple, Pipe Close (2")                    | 16      | 186-7184    | 1        | Nippe, Pipe (2" x 4")     |
| 7       | 186-7215    | 2        | Cap, Vent (2")                             | 17      | 186-7082    | 1        | Hose, Leakoff             |
| 8       |             |          | Nipple, Pipe                               | 18      | 186-6515    | 1        | Barb, Hose                |
|         | 186-7179    | 1        | 23 Gallon Tank                             | 19      | 186-6536    | 1        | Clamp, Hose               |
|         | 186-7180    | 1        | 41 Gallon Tank (DNAB)                      | 20      | 186-7061    | 1        | Hose, Fuel Inlet          |
| 9       | 505-1050    | 2        | Plug, Modified (1.25 NPT)                  | 21      |             |          | Tube, Pickup              |
| 10      | 505-0026    | 2        | Coupling (1/8 NPT)                         |         | 186-7083    | 1        | 23 Gallon Tank            |
| 11      | 156-6636    | 1        | Plug, Pipe (1-1/4 NPT)                     |         | 186-7084    | 1        | 41 Gallon Tank            |
| 12      | 308-0916-01 | 1        | Switch, Basin Alarm                        |         | 186-7085    | 1        | 82 Gallon Tank            |
|         |             |          |                                            | 22      | 308-0963-02 | 1        | Switch, Low Fuel Alarm    |
|         |             |          |                                            | 23      | 186-7162-01 | 2        | Seal, Gasket (622mm)      |

# Mounting Base



## Mounting Base

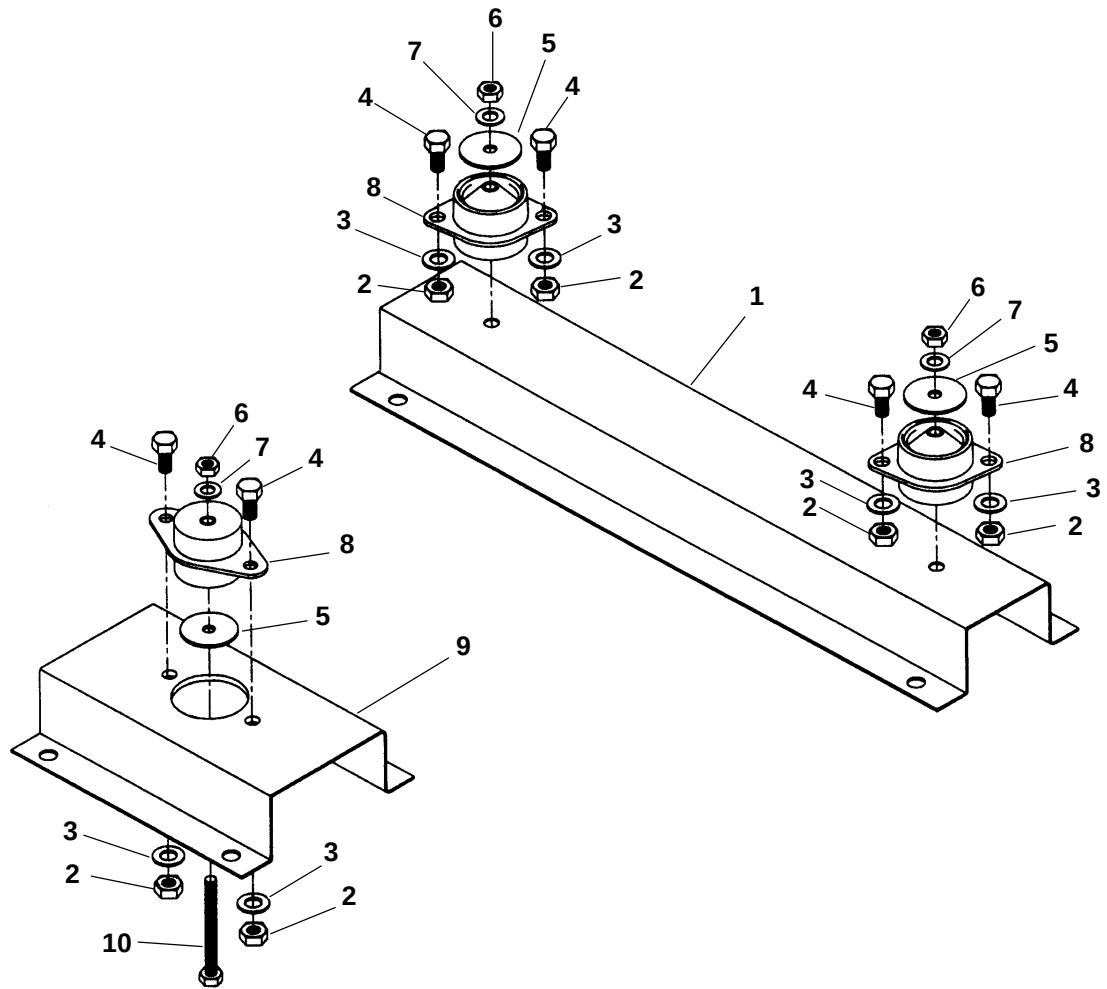
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                     | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                                        |
|---------|-------------|----------|------------------------------------------------------|---------|----------|----------|-------------------------------------------------------------------------|
| 1       |             |          | Kit, Skid Base (Spec A)<br>(Includes Parts Marked +) | 23      |          |          | + Cable, Negative Battery                                               |
|         | 403-4282    | 1        | DNAA                                                 |         | 186-6336 | 1        | DNAA                                                                    |
|         | 403-4148    | 1        | DNAB                                                 |         | 186-6337 | 1        | DNAB                                                                    |
| 2       |             |          | Base, Mounting                                       | 24      | 186-6301 | 1        | Brace, Rear Engine                                                      |
|         | 186-6300    | 1        | + Spec A                                             | 25      | 186-6449 | 3        | Nut, Hex (7/16")                                                        |
|         | 186-6898    | 1        | Begin Spec B                                         | 26      | 186-6637 | 3        | Washer, Spring (7/16")                                                  |
| 3       |             |          | Screw, Hex Head Cap                                  | 27      | 186-6672 | 8        | Screw, Hex Head Cap<br>(M10 x 1.5 x 30mm)                               |
|         | 186-7046    | 1        | + Spec A (M10 x 1.5 x 80mm)                          | 28      | 186-6976 | 8        | Washer, Spring (5/15")                                                  |
|         | 186-6638    | 1        | Begin Spec B<br>(7/16-14 x 3-1/4")                   | 29      | 186-6620 | 2        | Washer, Spring (M12)                                                    |
| 4       | 186-6665    | 8        | + Nut, Hex (M10 x 1.5)                               | 30      | 186-6666 | 2        | Nut, Lock (M12 x 1.75)                                                  |
| 5       | 186-6619    | 10       | + Washer, Spring (M10)                               | 31      | 186-6306 | 1        | Plate, Front Engine                                                     |
| 6       |             |          | Mount Engine                                         | 32      | 186-6674 | 2        | Screw, Hex Head Cap<br>(M12 x 1.75 x 55mm)                              |
|         |             |          | + Spec A                                             | 33      | 416-1042 | 1        | Kit, Battery Vent Hose (Includes<br>Parts Marked * and<br>Washers/Nuts) |
|         | 186-6305    | 3        | DNAA                                                 |         |          |          |                                                                         |
|         | 186-6304    | 3        | DNAB                                                 | 34      | 332-0611 | 1        | Block, Terminal (Use With<br>Detector Control)                          |
|         | 402-0676-01 | 3        | Begin Spec B                                         | 35      | 332-1043 | 2        | Jumper, Terminal Block (Use<br>With Detector Control)                   |
| 7       | 186-6676    | 8        | + Screw, Hex Head Cap<br>(M10 x 1.5 x 20mm)          | 36      | 186-6020 | 2        | Nut, Hex (M8 x 1.25) (Use With<br>Detector Control)                     |
| 8       | 186-6379    | 4        | + Washer, Rebound                                    | 37      | 186-6371 | 2        | Washer, Lock (M4) (Use With<br>Detector Control)                        |
| 9       | 186-6307    | 1        | + Foot, Sliding                                      | 38      | 186-6370 | 2        | Screw, Machine<br>(M4 x 0.7 x 16mm)<br>(Use With Detector Control)      |
| 10      | 186-6623    | 3        | + Washer, EIT (5/16")                                | 39      | 186-6369 | 1        | Bracket, Mounting (Use With<br>Detector Control)                        |
| 11      | 186-6668    | 1        | + Screw, Hex Head Cap<br>(M8 x 1.25 x 16mm)          | 40      | 186-6618 | 1        | Washer, Spring (M8) (Use With<br>Detector Control)                      |
| 12      | 186-6340    | 1        | + Cable, Ground                                      |         |          |          |                                                                         |
| 13      | 186-6669    | 1        | + Screw, Hex Head Cap<br>(M8 x 1.25 x 25mm)          |         |          |          |                                                                         |
| 14      | 186-6274    | 2        | + Nut, Hex (M8 x 1.25)                               |         |          |          |                                                                         |
| 15      | 517-0138-08 | 4        | Plug, Hole (Begin Spec B)                            |         |          |          |                                                                         |
| 16      | 517-0138-07 | 1        | Plug, Hole (Begin Spec B)                            |         |          |          |                                                                         |
| 17      | 186-6019    | 1        | + Washer, Spring (M8)                                |         |          |          |                                                                         |
| 18      | 186-6406    | 2        | +* Bolt, Hold-Down (1/4-20)                          |         |          |          |                                                                         |
| 19      | 186-6854    | 1        | +* Cap                                               |         |          |          |                                                                         |
| 20      | 186-6853    | 1        | +* Hose (5/16 ID x 15)                               |         |          |          |                                                                         |
| 21      | 186-6835    | 1        | +* Hold-Down, Battery                                |         |          |          |                                                                         |
| 22      |             |          | Cable, Positive Battery                              |         |          |          |                                                                         |
|         |             |          | + Spec A                                             |         |          |          |                                                                         |
|         | 186-6333    | 1        | DNAA                                                 |         |          |          |                                                                         |
|         | 186-6334    | 1        | DNAB                                                 |         |          |          |                                                                         |
|         |             |          | Begin Spec B                                         |         |          |          |                                                                         |
|         | 186-7171    | 1        | DNAA                                                 |         |          |          |                                                                         |
|         | 186-7172    | 1        | DNAB                                                 |         |          |          |                                                                         |

+ – Parts Included in Skid Base Kit (Spec A)

\* – Parts Included in Battery Vent Hose Kit.

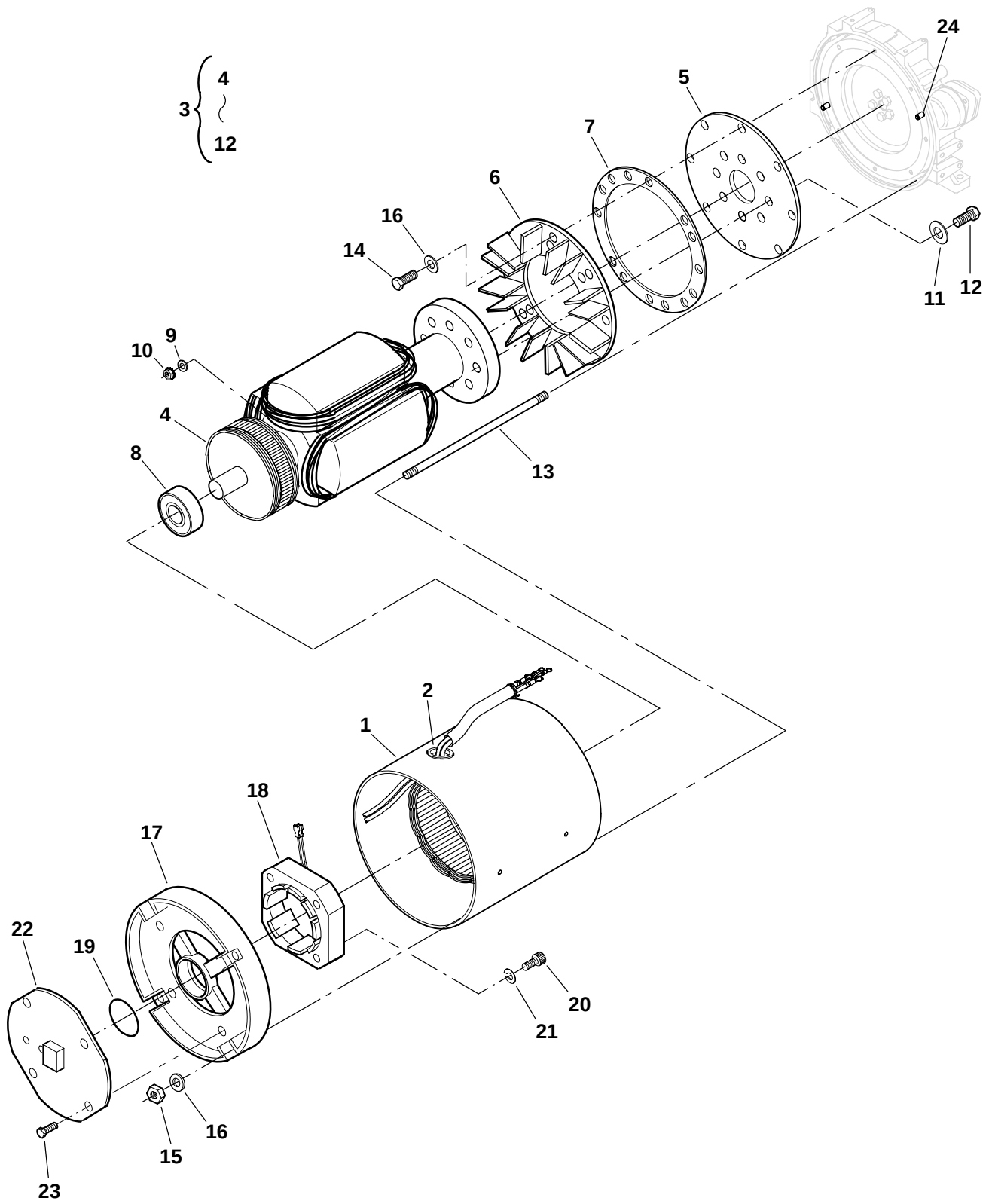


## Mounting Bracket



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                       | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                       |
|---------|----------|----------|----------------------------------------|---------|-------------|----------|----------------------------------------|
|         | 403-4283 | 1        | Kit, Generator Mounting DNAA           | 7       | 186-6637    | 3        | Washer, Spring (7/16)                  |
|         | 403-4149 | 1        | DNAB                                   | 8       |             |          | Mount, Engine Spec A                   |
| 1       | 186-6329 | 1        | Bracket, Rear Mounting                 |         | 186-6305    | 3        | DNAA                                   |
| 2       | 186-6665 | 6        | Nut, Hex (M10 x 1.5)                   |         | 186-6304    | 3        | DNAB                                   |
| 3       | 186-6619 | 6        | Washer, Spring (M10)                   |         | 402-0676-01 | 3        | Begin Spec B                           |
| 4       | 186-6676 | 6        | Screw, Hex Head Cap (M10 x 1.5 x 20mm) | 9       | 186-6328    | 1        | Bracket, Front Mounting                |
| 5       | 186-6379 | 3        | Washer, Snubber (7/16")                | 10      | 186-6638    | 3        | Screw, Hex Head Cap (7/16-14 x 3-1/4") |
| 6       | 186-6449 | 3        | Nut, Hex (7/16-14)                     |         |             |          |                                        |

Generator

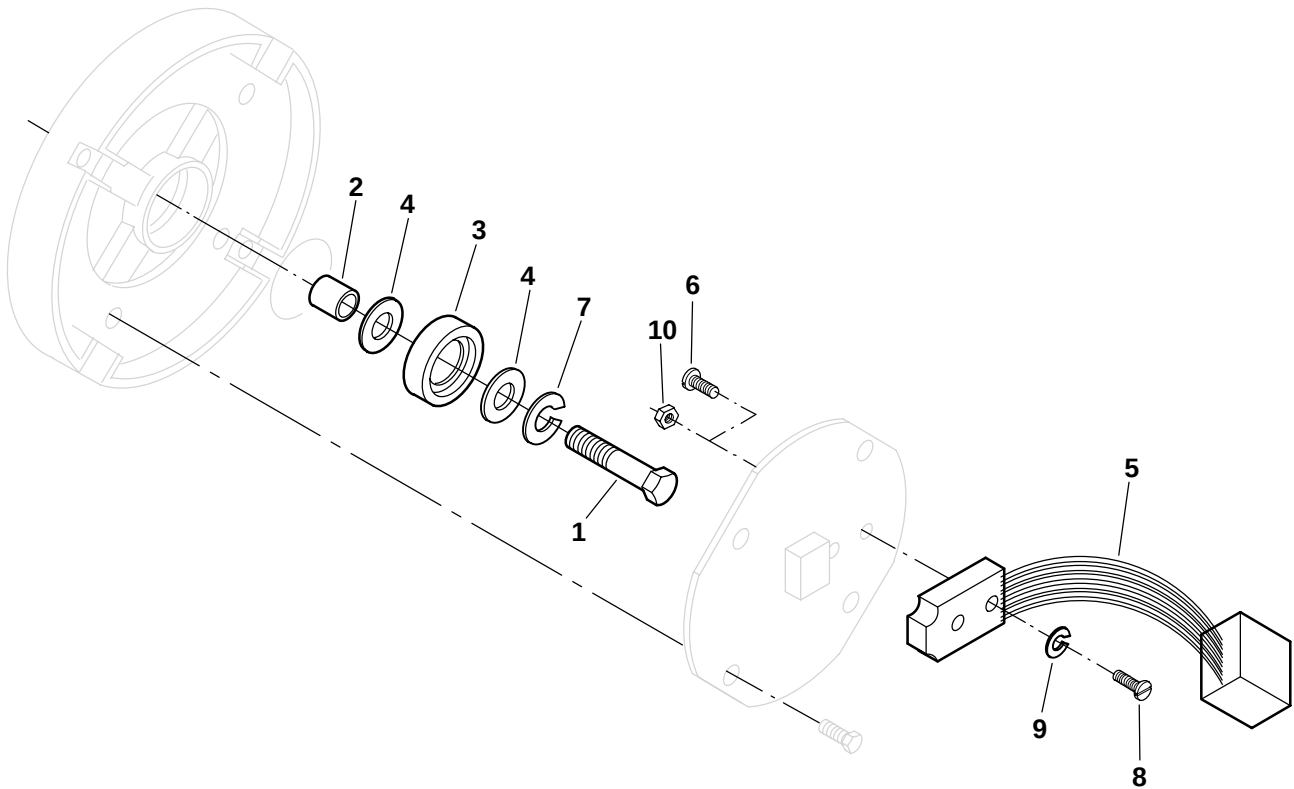


## Generator

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                           | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                            |
|---------|-------------|----------|----------------------------------------------------------------------------|---------|-------------|----------|---------------------------------------------|
| 1       | 220-4524-02 | 1        | Stator (Includes Grommet)<br>Single Phase<br>Three Phase<br>Extended Stack | 12      | 800-3017-52 | 6        | *Bolt, Hex Head Cap<br>(M12 x 1.75 x 20mm)  |
|         | 220-4525-02 | 1        | DNAA                                                                       | 13      |             |          | Stud<br>Extended Stack                      |
|         | 220-4525-03 | 1        | DNAB                                                                       |         | 520-1004-02 | 4        | DNAA                                        |
|         |             |          | Standard Stack                                                             |         | 520-1004-03 | 4        | DNAB                                        |
|         | 220-4525-02 | 1        | To 480V (DNAB Only)                                                        |         | 520-1004-02 | 4        | Standard Stack (DNAB Only)                  |
|         | 220-4529-02 | 1        | 600V                                                                       | 14      | 800-3017-38 | 8        | Screw, Hex Head Cap<br>(M10 x 1.5 x 30mm)   |
| 2       | 508-0183    | 1        | Grommet                                                                    | 15      | 862-0026-07 | 4        | Nut, Hex (3/8-16)                           |
| 3       |             |          | Rotor Assy (Includes Parts<br>Marked *)                                    | 16      | 526-0399-42 | 12       | Washer, Flat (7/8")                         |
|         | 201-3556-02 | 1        | Standard Stack                                                             | 17      | 211-0464    | 1        | Endbell                                     |
|         |             |          | Extended Stack                                                             | 18      | 220-4413-03 | 1        | Stator, Exciter                             |
|         | 201-3556-02 | 1        | DNAA                                                                       | 19      | 509-0143    | 1        | O'Ring, Seal                                |
|         | 201-3556-03 | 1        | DNAB                                                                       | 20      | 802-0038    | 1        | Screw (1/4-20)                              |
| 4       | 201-3515-01 | 1        | *Rotor, Exciter                                                            | 21      | 850-0114-05 | 2        | Washer, Lock (1/4")                         |
| 5       | 232-3953-03 | 1        | *Disc, Drive                                                               | 22      | 234-0957-02 | 4        | Cover, Inlet                                |
| 6       | 205-0229-02 | 1        | *Fan, Generator                                                            | 23      | 821-0001-01 | 4        | Screw, Lock Head Flange<br>(3/16-24 x .38") |
| 7       | 232-3727-02 | 1        | *Spacer, Drive Disc                                                        | 24      | 186-6498    | 2        | Pin, Dowel                                  |
| 8       | 510-0173    | 1        | *Bearing, Ball                                                             |         |             |          |                                             |
| 9       | 526-0399-11 | 2        | *Washer, Flat (#10)                                                        |         |             |          |                                             |
| 10      | 870-0131-01 | 2        | *Nut, ET Hex (#10)                                                         |         |             |          |                                             |
| 11      | 526-0399-73 | 6        | *Washer, Flat (M12)                                                        |         |             |          |                                             |

\* – Parts Included in Rotor Assy.

## Overspeed

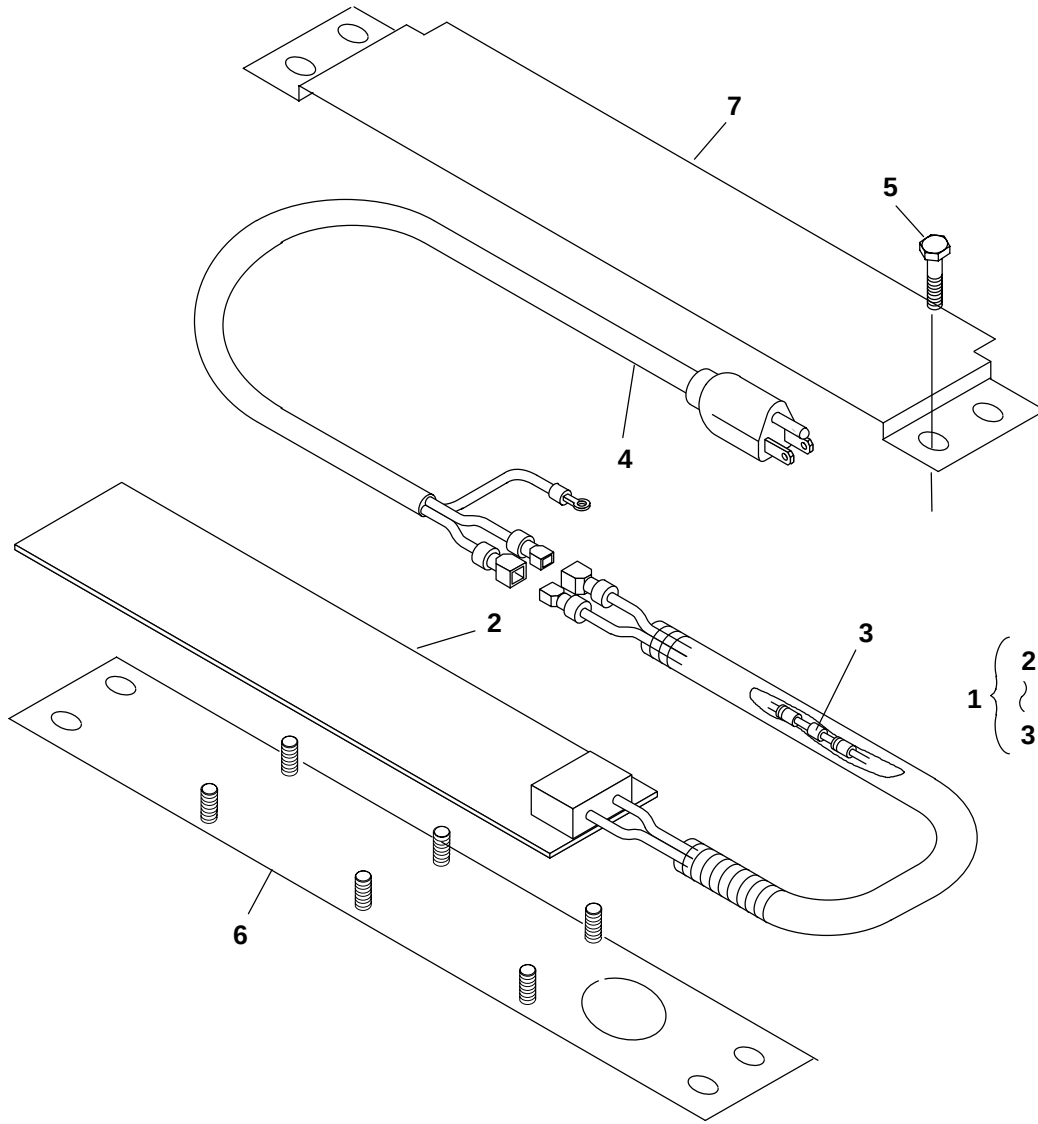


| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                        |
|---------|----------|----------|-----------------------------------------|
| 1       | 800-0515 | 1        | Screw, Hex Head Cap (3/8-16 x 1-3/4)    |
| 2       | 191-2131 | 1        | Spacer                                  |
| 3       | 166-0767 | 1        | Rotor, Ignition                         |
| 4       | 526-0124 | 2        | Washer, Flat (3/8')                     |
| 5       | 300-4324 | 1        | PCB Assy, Overspeed                     |
| 6       | 815-0849 | 2        | Screw, IT Cross Recessed (#6-32 x 3/4") |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                         |
|---------|-------------|----------|------------------------------------------|
| 7       | 850-0050    | 1        | Washer, Lock (3/8")                      |
| 8       | 815-0865-13 | 2        | Screw, Pan Head Machine (M4 x .7 x 45mm) |
| 9       | 850-2004    | 2        | Washer, Lock (M4)                        |
| 10      | 860-2005    | 2        | Nut, Hex (M4 x .7)                       |



## Generator Heater



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                       | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                          |
|---------|-------------|----------|--------------------------------------------------------|---------|----------|----------|-------------------------------------------|
| 1       |             |          | Heater Assy, Generator<br>(Includes Heater and Splice) | 4       |          |          | Cable, Control Heater                     |
|         | 300-5137-01 | 1        | 120V                                                   |         | 335-0110 | 1        | 120V                                      |
|         | 300-5137-02 | 1        | 208/240V                                               |         | 335-0178 | 1        | 208/240V                                  |
| 2       |             |          | Heater, Control (120V)                                 | 5       | 815-0578 | 4        | Screw, Hex Washer Head<br>(M6 x 1 x 12.7) |
|         | 333-0550-01 | 1        | 120V                                                   | 6       | 232-3832 | 1        | Plate, Heater Mounting                    |
|         | 333-0550-02 | 1        | 208/240V                                               | 7       | 232-3828 | 1        | Cover, Heater                             |
| 3       | 332-1789    | 2        | Splice, Window (18 Gauge)                              |         |          |          |                                           |

1  
2 thru 30



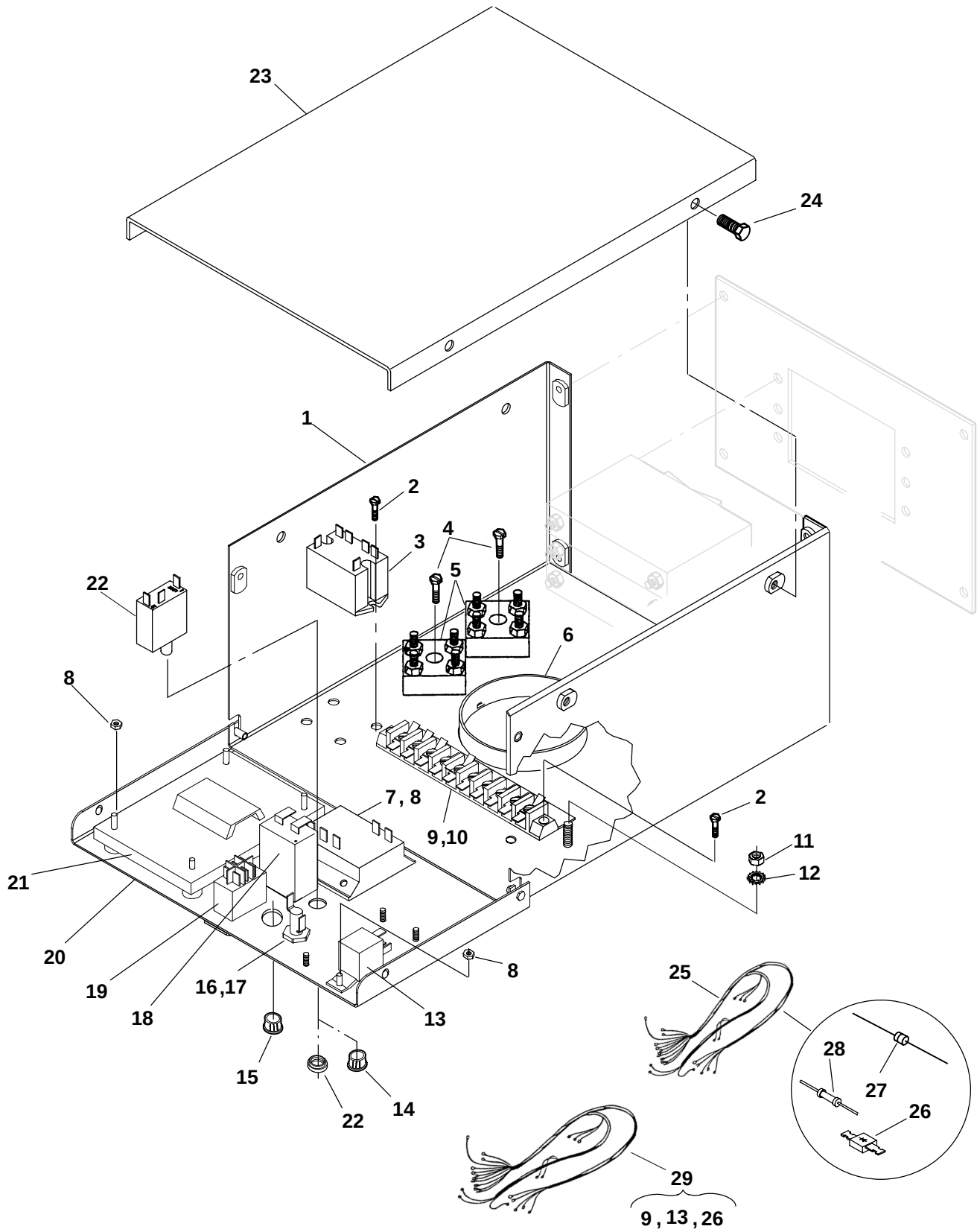
**Control  
Manual (Type I)  
Remote (Type II)  
(Spec A)**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                          | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                       |
|---------|-------------|----------|---------------------------------------------------------------------------|---------|----------|----------|----------------------------------------|
| 1       |             |          | Box Assy, Control (Includes Parts Marked *)                               | 19      | 186-6357 | 1        | *Plug, Plastic (Manual)                |
|         | 186-6360    | 1        | Manual                                                                    | 20      |          |          | *Washer (#6)                           |
|         | 186-6363    | 1        | Remote                                                                    |         | 186-6663 | 4        | Manual                                 |
| 2       | 186-6341    | 1        | *Harness, Voltage Sensing                                                 |         | 186-6663 | 5        | Remote                                 |
| 3       | 186-6310    | 1        | *Box, Control                                                             | 21      | 186-6832 | 1        | *Nut (6/32) (Remote)                   |
| 4       | 320-1139    | 1        | *Breaker, Circuit (DC) (Remote (Includes Mounting Hardware 3/8-32 Thread) | 22      |          |          | *Nut (M4)                              |
|         |             |          |                                                                           |         | 186-6831 | 4        | Manual                                 |
|         |             |          |                                                                           |         | 186-6831 | 8        | Remote                                 |
| 5       | 186-6652    | 4        | *Screw, Phillister Head Machine (M4 x .7 x 16mm)                          | 23      | 186-6356 | 1        | *Block, DC Terminal                    |
| 6       | 332-3249    | 2        | *Block, AC Terminal                                                       | 24      | 186-6859 | 1        | *Diode Assy, Zener (3.6V, 5W) (Remote) |
| 7       | 186-6359    | 1        | *Grommet                                                                  | 25      | 186-6861 | 1        | *Resistor Assy, Metal Oxide (Remote)   |
| 8       | 186-6833    | 1        | *Relay (Remote)                                                           | 26      | 186-6834 | 1        | *Washer (9mm) (Remote)                 |
| 9       | 307-2871    | 1        | *Timer, Control Unit (Remote)                                             | 27      | 186-6860 | 2        | *Diode Assy (Manual)                   |
| 10      |             |          | *Nut, Lock (M5)                                                           | 28      | 186-6349 | 1        | *Cover, Control Box                    |
|         | 186-6912    | 6        | Manual                                                                    | 29      | 186-6617 | 10       | *Washer, Flat Spring (M6)              |
|         | 186-6912    | 7        | Remote                                                                    | 30      | 186-6621 | 10       | *Screw, Hex Head Cap (M6 x 10mm)       |
| 11      | 321-0175    | 1        | *Holder, Fuse                                                             |         |          |          | + Switch, Off/On Toggle                |
| 12      | 321-0253    | 1        | *Fuse                                                                     | 31      | 186-6388 | 1        | + Seal, Switch                         |
| 13      | 186-6347    | 1        | *Panel, Control                                                           | 32      | 186-6298 | 1        | Harness, Engine                        |
| 14      | 305-0844    | 1        | *Regulator, Voltage                                                       | 33      | 186-6331 | 1        | *Harness, Panel                        |
| 15      |             |          | *Switch, On/Off/Start                                                     | 34      |          |          |                                        |
|         | 186-6354    | 1        | Manual                                                                    |         | 186-6382 | 1        | Manual                                 |
|         | 186-6362    | 1        | Remote                                                                    |         | 186-6383 | 1        | Remote                                 |
| 16      | 186-6298    | 1        | *Boot, On/Off/Start Switch                                                |         |          |          |                                        |
| 17      |             |          | *Relay, Fault                                                             |         |          |          |                                        |
|         | 307-2817-01 | 1        | Manual                                                                    |         |          |          |                                        |
|         | 307-2817-01 | 3        | Remote                                                                    |         |          |          |                                        |
| 18      | 186-6358    | 1        | *Plug, Plastic (Preheat)                                                  |         |          |          |                                        |

\* – Parts Included in Control Box Assy.

+ – Parts Included in Manual Preheat Kit Listed on Preheat Kit Page.

**Control  
Manual (Type I)  
Remote (Type II)  
(Begin Spec B)**

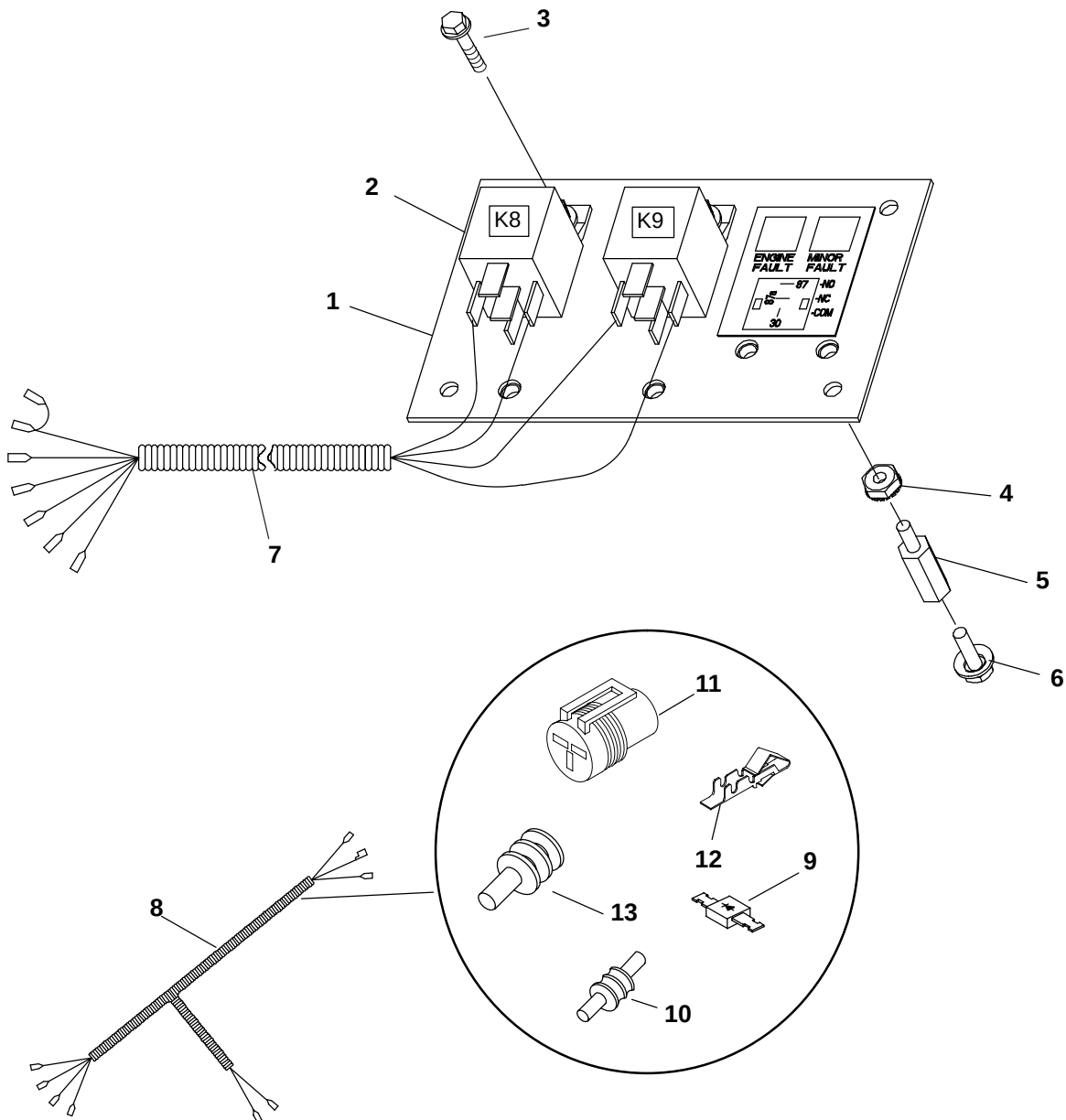


**Control  
Manual (Type I)  
Remote (Type II)  
(Begin Spec B)**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                         | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                               |
|---------|-------------|----------|------------------------------------------|---------|-------------|----------|--------------------------------------------------------------------------------|
| 1       | 319-3321    | 1        | Box, Control                             | 18      | 302-2002    | 1        | Meter, Hour                                                                    |
| 2       |             | 1        | Screw (M4 x .7 x 20mm)                   |         |             |          | (Remote Only)                                                                  |
|         | 815-0925-01 | 2        | Manual                                   | 19      |             |          | Switch, On/Off/Start (S12)                                                     |
|         | 815-0925-01 | 4        | Remote                                   |         | 308-1086    | 1        | Manual                                                                         |
| 3       | 307-2677-03 | 1        | Relay (Remote)                           |         | 308-1011    | 1        | Remote                                                                         |
| 4       | 821-6001-03 | 2        | Screw, Hex Head Sems<br>(M4 x .8 x 16mm) | 20      | 319-3322    | 1        | Panel, Control                                                                 |
| 5       | 332-3249    | 2        | Block, AC Terminal                       | 21      | 305-0982    | 1        | Regulator, Voltage (VR21)                                                      |
| 6       | 508-1127    | 1        | Bushing, Nylon                           | 22      | 320-1824-02 | 1        | Breaker, Circuit (DC) (Remote Only) (Includes Mounting Hardware 3/8-32 Thread) |
| 7       | 307-2871    | 1        | Timer, Control Unit (Remote)             |         |             |          |                                                                                |
| 8       |             |          | Nut, Nylon Lock (M4)                     | 23      | 319-3326    | 1        | Cover, Control Box                                                             |
|         | 870-2064-01 | 5        | Manual                                   | 24      | 821-6002-03 | 6        | Screw, Hex Head Sems<br>(M6 x 1 x 16mm)                                        |
|         | 870-2064-01 | 12       | Remote                                   |         |             |          |                                                                                |
| 9       | 332-3564    | 1        | #Block, DC Terminal                      | 25      | 338-3735    | 1        | Harness, Engine (Includes Diode, Zener, and Resistor)                          |
| 10      | 332-3573    | 1        | Strip, Marker                            |         |             |          |                                                                                |
| 11      | 860-2057    | 1        | Nut, Hex (M6)                            | 26      | 357-0030    | 1        | #Diode (CR2)                                                                   |
| 12      | 856-0006    | 1        | Washer, EIT Lock (1/4")                  | 27      | 359-0115    | 1        | Zener (3.6V, 5@) (CR1)                                                         |
| 13      |             |          | #Relay, Fault (K14)                      | 28      | 350-0980    | 1        | Resistor (510O, 2W, 5%)                                                        |
|         | 307-2817-01 | 1        | Manual                                   | 29      |             |          | Harness, Control (Includes Parts Marked #)                                     |
|         | 307-2817-01 | 4        | Remote                                   |         |             |          |                                                                                |
| 14      | 517-0131    | 1        | Plug, Plastic (Manual Only)              |         | 338-3738    | 1        | Manual                                                                         |
| 15      | 517-0133    | 1        | Plug, Plastic                            |         | 338-3732    | 1        | Remote                                                                         |
| 16      | 321-0175    | 1        | Holder, Fuse                             |         |             |          |                                                                                |
| 17      | 321-0353    | 1        | Fuse (20A) (F1)                          |         |             |          |                                                                                |

# – Parts Included in Control Harness.

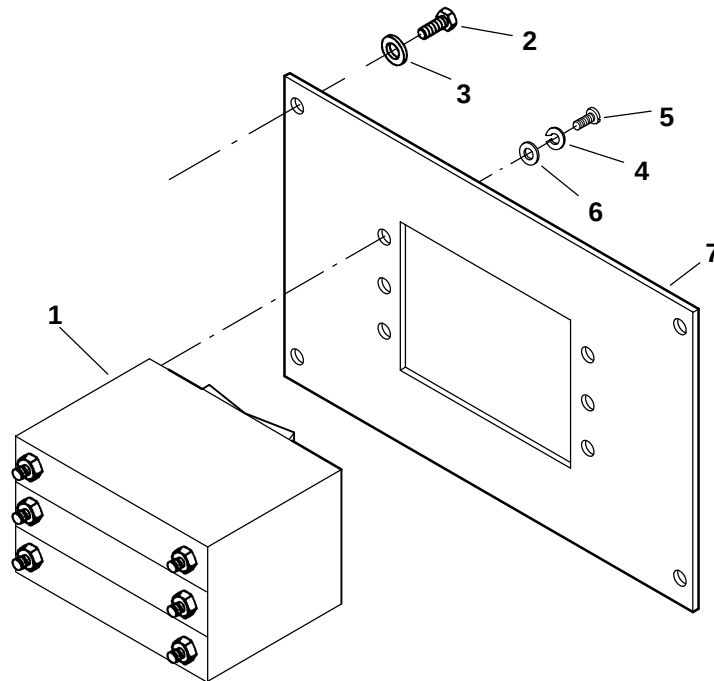
# **Aux Relay Board (Manual/Remote Control) (Begin Spec B)**



| r5REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                      | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                               |
|-----------|-------------|----------|---------------------------------------|---------|----------|----------|------------------------------------------------|
| 1         | 319-3601-02 | 1        | Panel, Relay                          | 8       | 338-3799 | 1        | Harness, Dry Contact (Includes Parts Marked *) |
| 2         | 307-2817-01 | 2        | Relay (K8, K9) (12V)                  | 9       | 357-0030 | 2        | *Rectifier                                     |
| 3         | 821-6001-02 | 2        | Screw, Hex Head Sem (M5 x 0.8 x 12mm) | 10      | 323-1712 | AR       | *Plug, Cavity                                  |
| 4         | 870-0131    | 4        | Nut, ET Sems                          | 11      | 323-1765 | 1        | *Housing, Connector (4 Pin)                    |
| 5         | 870-2204    | 4        | Standoff, Male/Female Hex (#10-32)    | 12      | 323-1709 | AR       | *Terminal, Socket                              |
| 6         | 821-5000-05 | 4        | Screw, Hex Head Sems                  | 13      | 323-1708 | AR       | *Seal, Cable                                   |
| 7         | 338-3731    | 1        | Harness, Control                      |         |          |          |                                                |

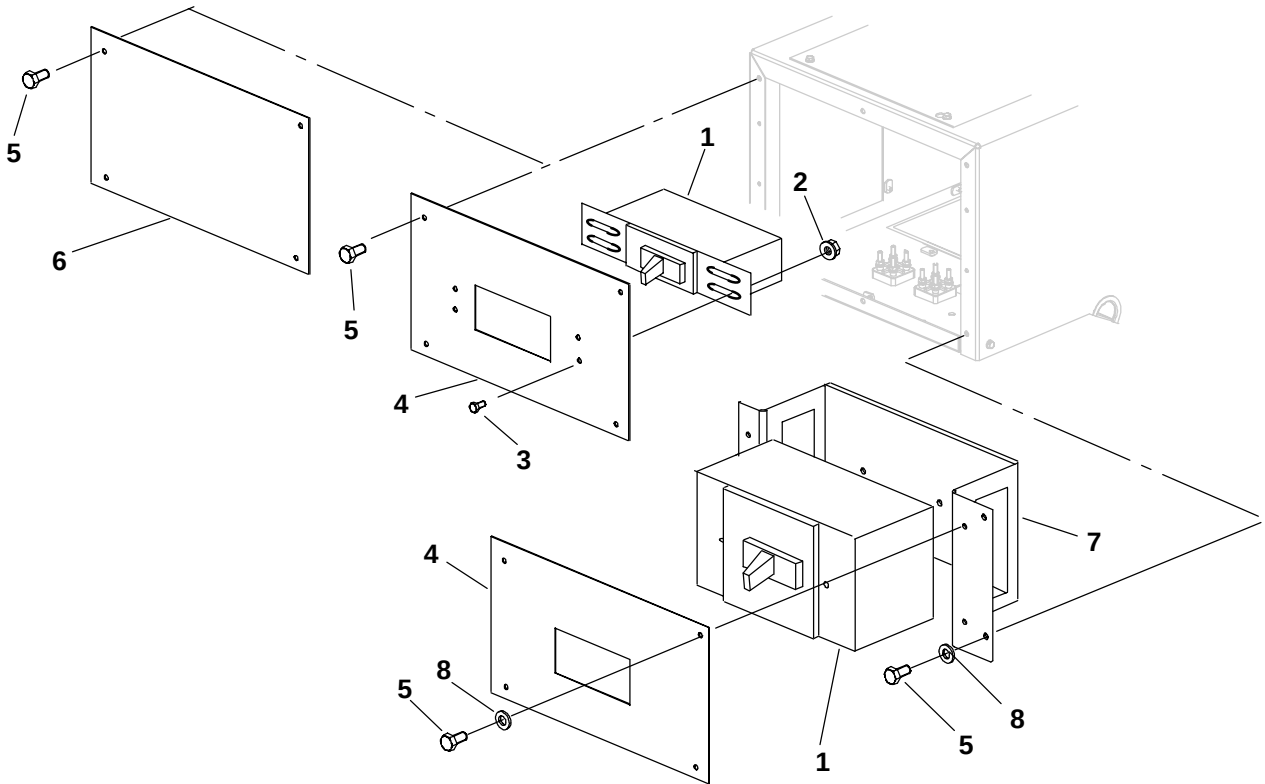
\* – Parts Included in Dry Contact Harness.

**Control Box Back Panel**  
**Manual (Type I) Remote (Type II)**  
**(Spec A)**



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION         |
|---------|-------------|----------|------------------|---------|-------------|----------|--------------------------|
| 1       |             |          | Breaker, Circuit |         |             |          |                          |
|         |             |          | 2 Pole, 240V     |         |             |          |                          |
|         | 320-1841-01 | 1        | 10A              |         | 320-1827-10 | 1        | 55A                      |
|         | 320-1841-02 | 1        | 15A              |         | 320-1827-11 | 1        | 60A                      |
|         | 320-1841-03 | 1        | 20A              |         | 320-1827-12 | 1        | 65A                      |
|         | 320-1841-04 | 1        | 25A              |         | 320-1827-13 | 1        | 70A                      |
|         | 320-1841-05 | 1        | 30A              |         | 320-1827-14 | 1        | 75A                      |
|         | 320-1841-06 | 1        | 35A              |         | 320-1827-15 | 1        | 80A                      |
|         | 320-1841-07 | 1        | 40A              |         | 320-1827-16 | 1        | 85A                      |
|         | 320-1841-08 | 1        | 45A              |         | 320-1827-17 | 1        | 90A                      |
|         | 320-1841-09 | 1        | 50A              |         | 320-1827-18 | 1        | 95A                      |
|         | 320-1841-10 | 1        | 55A              |         | 320-1827-19 | 1        | 100A                     |
|         | 320-1841-11 | 1        | 60A              |         |             |          | 600V                     |
|         | 320-1841-12 | 1        | 65A              |         | 320-1851-01 | 1        | 10A                      |
|         | 320-1841-13 | 1        | 70A              |         | 320-1851-02 | 1        | 15A                      |
|         | 320-1841-14 | 1        | 75A              |         | 320-1851-03 | 1        | 20A                      |
|         | 320-1841-15 | 1        | 80A              |         | 320-1851-04 | 1        | 25A                      |
|         | 320-1841-16 | 1        | 85A              |         | 320-1851-05 | 1        | 30A                      |
|         | 320-1841-17 | 1        | 90A              | 2       | 186-6034    | 4        | Screw (M6 x 1 x 20mm)    |
|         | 320-1841-18 | 1        | 95A              | 3       | 186-6591    | 4        | Washer, Flat (M6)        |
|         | 320-1841-19 | 1        | 100A             | 4       |             |          | Washer, Lock (#6)        |
|         |             |          | 3 Pole           |         | 186-6428    | 4        | 2 Pole Circuit Breaker   |
|         |             |          | 480V             |         | 186-6428    | 6        | 3 Pole Circuit Breaker   |
|         | 320-1827-01 | 1        | 10A              | 5       |             |          | Screw (#6-32 x 3/8")     |
|         | 320-1827-02 | 1        | 15A              |         | 186-6488    | 4        | 2 Pole Circuit Breaker   |
|         | 320-1827-03 | 1        | 20A              |         | 186-6488    | 6        | 3 Pole Circuit Breaker   |
|         | 320-1827-04 | 1        | 25A              | 6       |             |          | Washer, Flat (#6)        |
|         | 320-1827-05 | 1        | 30A              |         | 186-6663    | 4        | 2 Pole Circuit Breaker   |
|         | 320-1827-06 | 1        | 35A              |         | 186-6663    | 6        | 3 Pole Circuit Breaker   |
|         | 320-1827-07 | 1        | 40A              | 7       |             |          | Panel, Control Box Back  |
|         | 320-1827-08 | 1        | 45A              |         | 186-6351    | 1        | W/O Circuit Breaker Hole |
|         | 320-1827-09 | 1        | 50A              |         |             |          | W/Circuit Breaker Hole   |
|         |             |          |                  |         | 186-6350    | 1        | 2 Pole Circuit Breaker   |
|         |             |          |                  |         | 186-6348    | 1        | 3 Pole Circuit Breaker   |

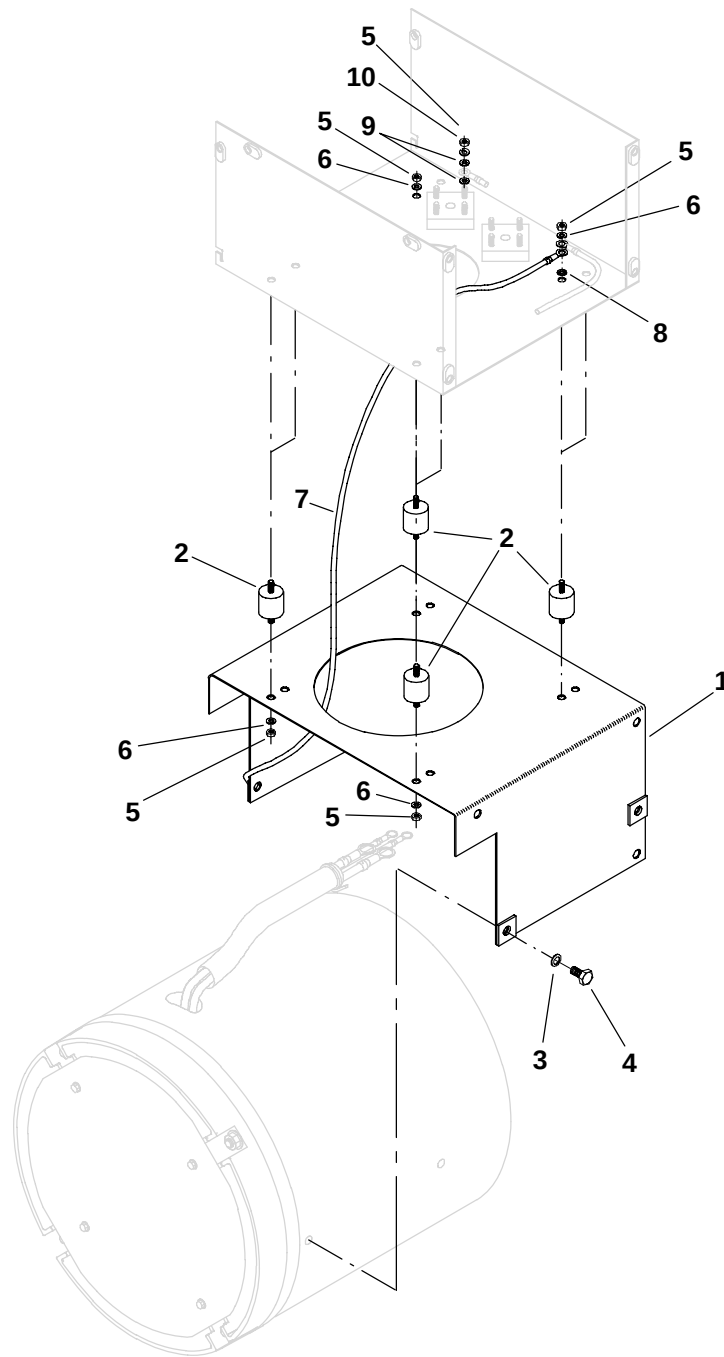
**Control Box Back Panel  
Manual (Type I) Remote (Type II)  
(Begin Spec B)**



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                |
|---------|-------------|----------|------------------|---------|-------------|----------|---------------------------------|
| 1       |             |          | Breaker, Circuit | 2       | 186-6831    | 4        | Nut, Nylock (M4 x 0.7)          |
|         |             |          | 2 Pole, 240V     |         |             |          | (W/2 Pole Circuit Breaker)      |
|         | 320-2005-11 | 1        | 10A              | 3       | 186-7078    | 4        | Screw, Hex Head Cap             |
|         | 320-2005-10 | 1        | 15A              |         |             |          | (M4 x 0.7 x 16mm)               |
|         | 320-2005-09 | 1        | 20A              |         |             |          | (W/2 Pole Circuit Breaker)      |
|         | 320-2005-08 | 1        | 25A              | 4       |             |          | Panel, Control Box Back         |
|         | 320-2005-07 | 1        | 30A              |         |             |          | (W/Circuit Breaker Hole)        |
|         | 320-2005-06 | 1        | 35A              |         | 319-3323    | 1        | 2 Pole Circuit Breaker          |
|         | 320-2005-05 | 1        | 40A              | 5       |             |          | Screw, Hex Head Cap             |
|         | 320-2005-04 | 1        | 45A              |         |             |          | (M6 x 1 x 16mm)                 |
|         |             |          | 3 Pole           |         | 186-6546    | 4        | 2 Pole CB (and W/O CB)          |
|         |             |          | 480V             |         | 186-6546    | 8        | 3 Pole CB                       |
|         | 320-2009-11 | 1        | 15A              | 6       | 319-3324    | 1        | Panel, Control Box Back         |
|         | 320-2009-10 | 1        | 20A              |         |             |          | (W/O Circuit Breaker Hole)      |
|         | 320-2009-09 | 1        | 30A              | 7       |             |          | Bracket, Circuit Breaker        |
|         |             |          | 600V             |         |             |          | (W/3 Pole CB)                   |
|         | 320-1959-22 | 1        | 15A              |         | 319-3823-02 | 1        | 480V Sets                       |
|         | 320-1959-21 | 1        | 20A              |         | 319-3646-01 | 1        | 600V Sets                       |
|         | 320-1959-20 | 1        | 30A              | 8       | 186-6974    | 8        | Washer, Flat (M6) (W/3 Pole CB) |

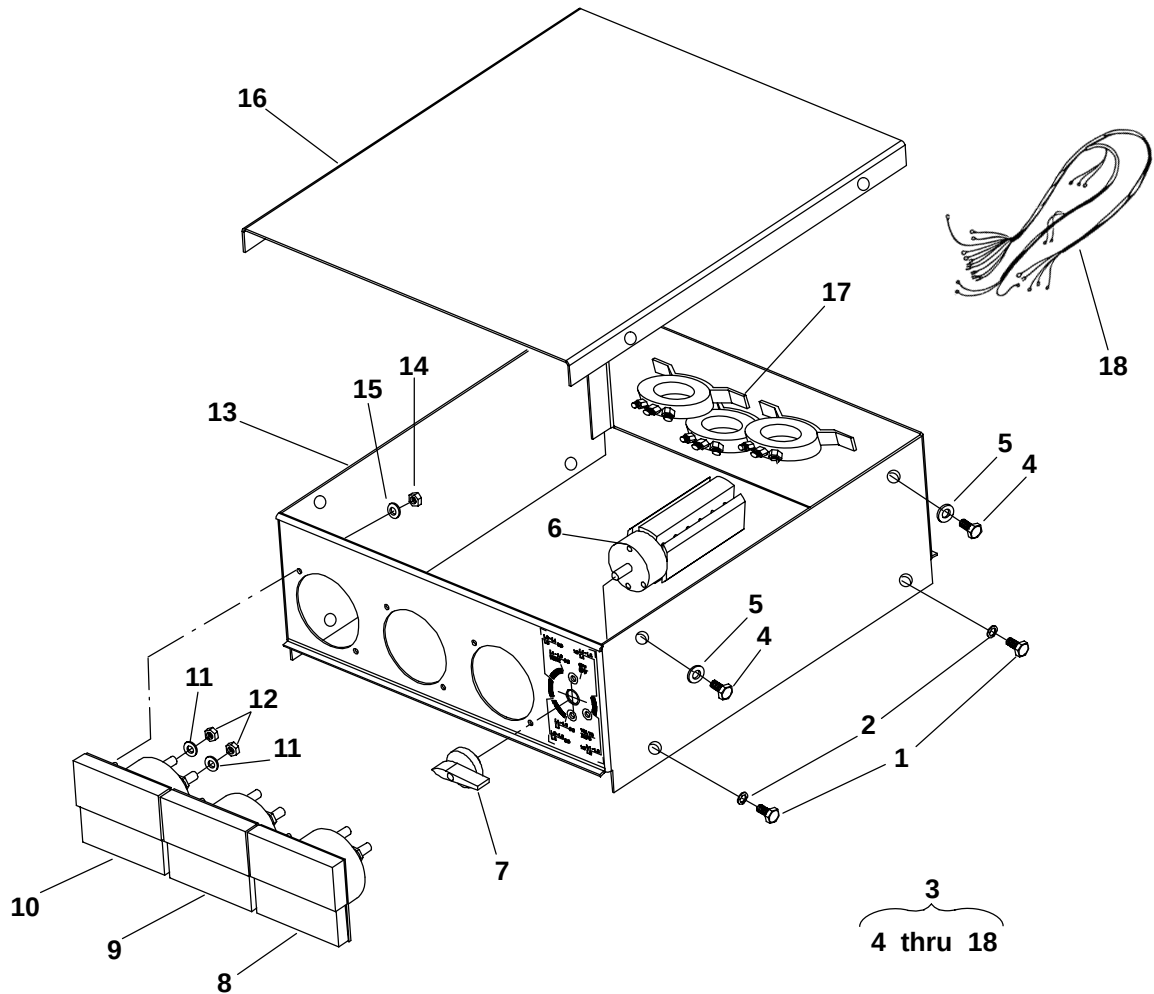


## Control Mount Manual (Type I) Remote (Type II)



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION         | REF NO. | PART NO. | QTY USED | PART DESCRIPTION    |
|---------|----------|----------|--------------------------|---------|----------|----------|---------------------|
| 1       | 186-6352 | 1        | Saddle                   | 5       | 186-6209 | 17       | Nut, Hex (M6 x 1)   |
| 2       | 186-6311 | 4        | Mount, Vibration         | 6       | 186-6617 | 16       | Washer, Spring (M6) |
|         | 186-6979 | 4        | 2 Cylinder               | 7       | 186-6339 | 1        | Strap, Ground       |
|         |          |          | 3/4 Cylinder             | 8       | 186-6635 | 1        | Washer, EIT (1/4")  |
| 3       | 186-6623 | 4        | Washer, EIT (5/16")      | 9       | 186-6591 | 16       | Washer, Flat (M6)   |
| 4       | 186-6622 | 4        | Screw (M8 x 1.25 x 16mm) | 10      | 186-6597 | 8        | Washer, Lock (M6)   |

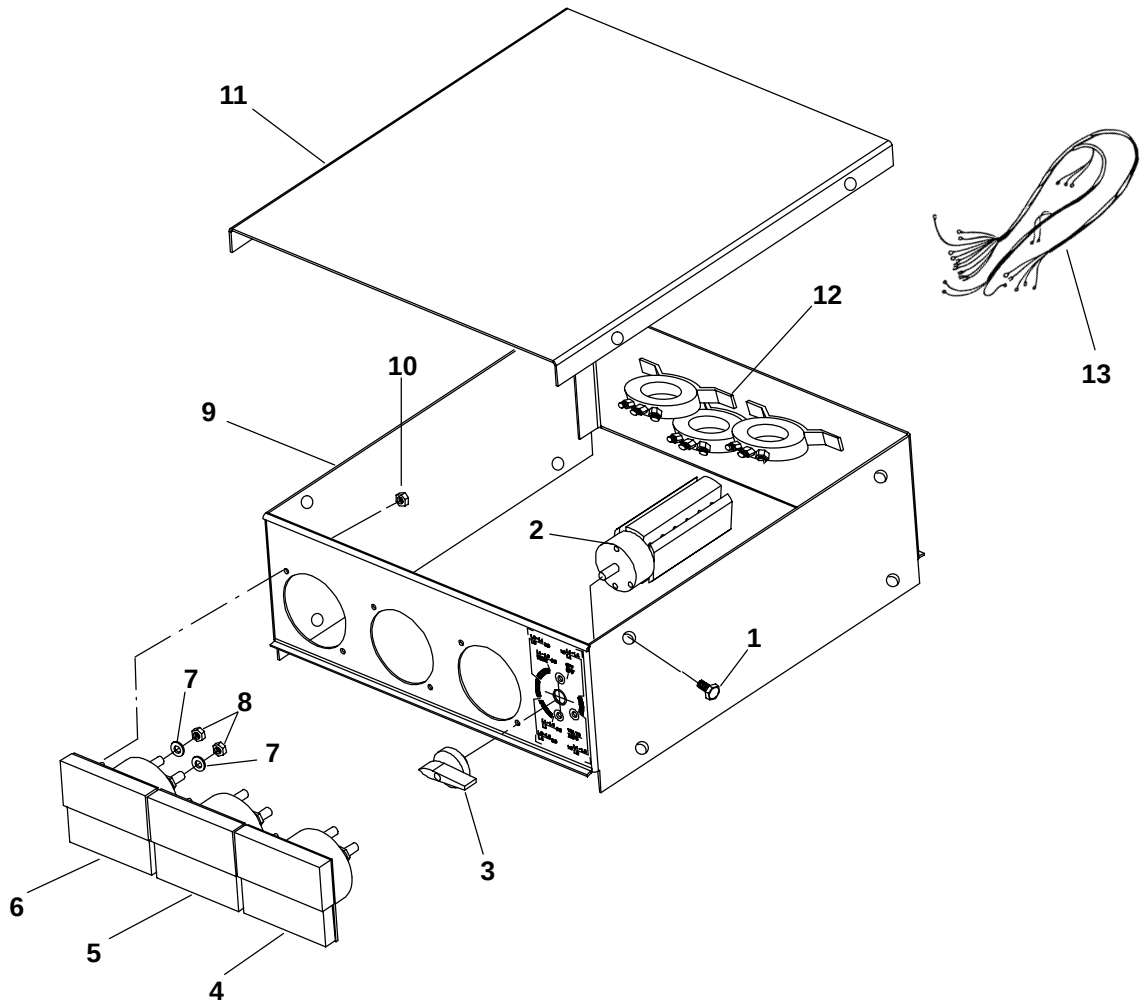
# **Meter Panel** **Manual (Type I) Remote (Type II)** **(Spec A)**



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                         | REF NO.     | PART NO. | QTY USED | PART DESCRIPTION              |
|---------|-------------|----------|------------------------------------------|-------------|----------|----------|-------------------------------|
|         |             |          | Kit, Meter Panel                         | 9           |          |          | + Ammeter                     |
|         | 300-5053-01 | 1        | 0-15 or 0-30 Amps                        | 302-2033    | 1        |          | 15/30A                        |
|         | 300-5053-02 | 1        | 0-50 or 0-100 Amps                       | 302-1473    | 1        |          | 50/100A (DNAB Only)           |
| 1       | 186-6621    | 8        | Screw, Hex Head Cap (M6 x 1 x 10mm)      | 10          | 302-1968 | 1        | + Meter, Frequency            |
| 2       | 186-6974    | 8        | Washer (M6)                              | 11          | 186-7030 | 8        | + Washer (1/4")               |
| 3       |             |          | Box, Control (Includes Parts Marked +)   | 12          | 186-7050 | 8        | + Nut, Hex (1/4-28)           |
|         | 186-6867-01 | 1        | 15A Ammeter                              | 13          | 186-6863 | 1        | + Box, AC Control             |
|         | 186-6867-02 | 1        | 30A Ammeter                              | 14          | 186-7040 | 6        | + Nut (4-40)                  |
|         | 186-6867-03 | 1        | 50A Ammeter                              | 15          | 186-7041 | 6        | + Washer (#4)                 |
|         | 186-6867-04 | 1        | 100A Ammeter                             | 16          | 186-6862 | 1        | + Cover, AC Control           |
| 4       | 186-6621    | 4        | + Screw, Hex Head Cap (M6 x 1 x 10mm)    | 17          |          |          | + Transformer, Current        |
| 5       | 186-6974    | 4        | + Washer (M6)                            | 302-2034-03 | 3        |          | W/15-30A Ammeter              |
| 6       | 308-1052    | 1        | + Switch, Phase Selector (Includes Knob) | 302-2034-02 | 3        |          | W/50-100A Ammeter (DNAB Only) |
| 7       | 308-1082    | 1        | + Knob, Selector Switch                  | 18          | 186-6864 | 1        | + Harness, Wiring             |
| 8       | 302-1148    | 1        | + Meter, Volt                            |             |          |          |                               |

+ - Parts Included in Control Box.

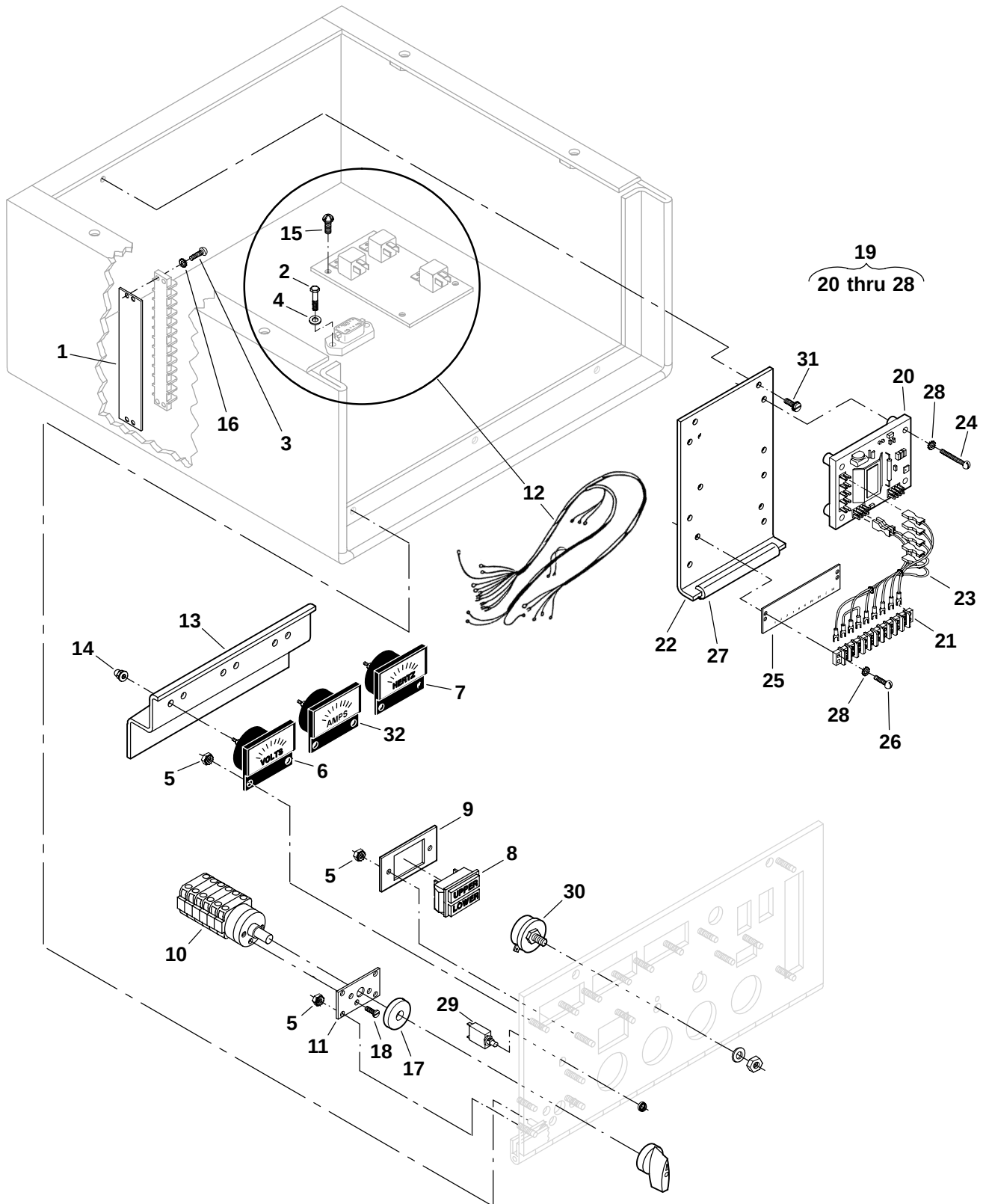
# **Meter Panel** **Manual (Type I) Remote (Type II)** **(Begin Spec B)**



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                       |
|---------|-------------|----------|----------------------------------------|
| 1       | 821-6002-03 | 4        | Screw, Hex Head Sems (M6 x 1 x 16mm)   |
| 2       | 308-1052    | 1        | Switch, Phase Selector (Includes Knob) |
| 3       | 308-1082    | 1        | Knob, Selector Switch                  |
| 4       | 302-1148    | 1        | Meter, Volt                            |
| 5       |             |          | Ammeter                                |
|         | 302-2033    | 1        | 15/30A                                 |
|         | 302-1473    | 1        | 50/100A (DNAB Only)                    |
| 6       | 302-1968    | 1        | Meter, Frequency                       |

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION              |
|---------|-------------|----------|-------------------------------|
| 7       | 186-6933    | 6        | Washer (1/4")                 |
| 8       | 186-7050    | 6        | Nut, Hex (1/4-28)             |
| 9       | 300-5215-04 | 1        | Box, AC Control               |
| 10      | 870-1220    | 6        | Nut (4-40)                    |
| 11      | 300-5214-02 | 1        | Cover, AC Control             |
| 12      |             |          | Transformer, Current          |
|         | 302-2034-03 | 3        | W/15-30A Ammeter              |
|         | 302-2034-02 | 3        | W/50-100A Ammeter (DNAB Only) |
| 13      | 338-3775    | 1        | Harness, AC Control           |

# AC Detector Control (Type III) (Spec A)

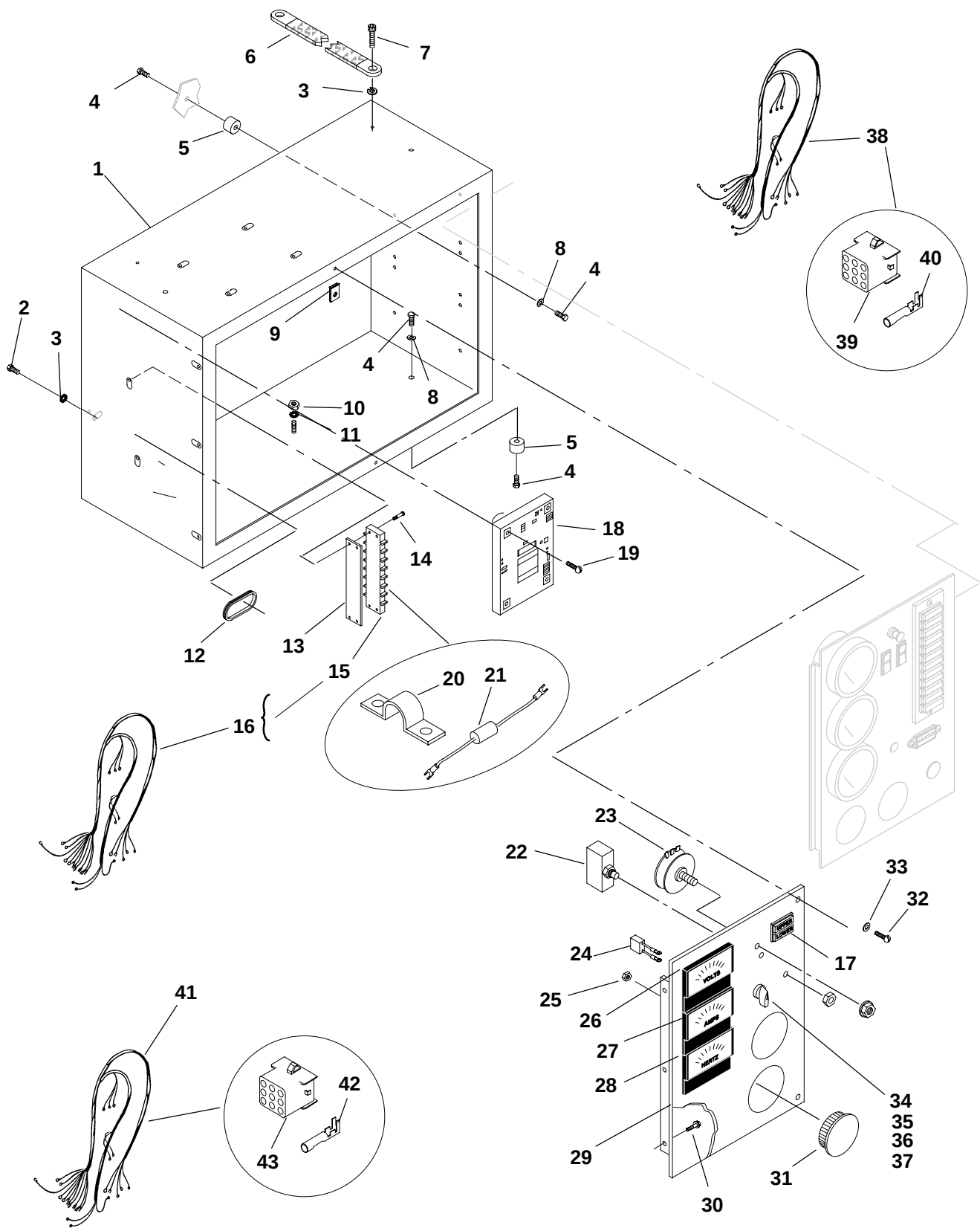


**AC Detector Control  
(Type III)  
(Spec A)**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                            | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                            |
|---------|-------------|----------|-------------------------------------------------------------|---------|-------------|----------|-------------------------------------------------------------|
| 1       | 332-2723    | 1        | Strip, Marker                                               | 13      | 319-2144    | 1        | Cover, Meter                                                |
| 2       | 800-2033-01 | 4        | Screw, Hex Head Cap<br>(M6 x 1 x 16mm)                      | 14      | 870-0439    | 6        | Nut, Acorn (1/4-28)                                         |
| 3       | 812-0028    | 2        | Screw, Round Head Machine<br>(#4-40 x 5/16")                | 15      | 815-0550    | 4        | Screw, IT Phillips Cross<br>Recessed (#6-32 x 3/8")         |
| 4       | 526-0422    | 4        | Washer, Nylon Retainer                                      | 16      | 853-0003    | 2        | Washer, ET Lock (#4)                                        |
| 5       | 870-1220    | 14       | Nut, ET Hex (#4-40)                                         | 17      | 308-1056    | 1        | Gasket, Switch                                              |
| 6       |             |          | Meter, AC Volt (M21)                                        | 18      | 815-0875-02 | 3        | Screw, Pan Head Machine<br>(M4 x 0.7 x 8mm)                 |
|         | 302-1148    | 1        | Up to 480V                                                  | 19      | 305-0949    | 1        | Regulator Assy, Voltage (VR21)<br>(Includes Parts Marked *) |
|         | 302-1753    | 1        | 600V                                                        | 20      | 305-0844    | 1        | *Regulator, Voltage (VR21)                                  |
| 7       | 302-1968    | 1        | Meter, Frequency (M23)                                      | 21      | 332-0751    | 1        | *Block, Terminal (10 Place)                                 |
| 8       | 322-0363    | 1        | Lamp, Over/Under<br>(DS21, DS22)                            | 22      | 305-0884    | 1        | *Plate, Voltage Regulator<br>Mounting                       |
| 9       | 319-2141    | 1        | Bracket, Lamp                                               | 23      | 338-3481    | 1        | *Harness, Regulator                                         |
| 10      | 308-1052    | 1        | Switch, Rotary (Volt & Ammeter)                             | 24      | 812-0084    | 4        | *Screw (#8-32 x 1")                                         |
| 11      | 319-2490    | 1        | Bracket, Switch                                             | 25      | 332-3247    | 1        | *Strip, Marker                                              |
| 12      | 338-2992-01 | 1        | Harness, Control (Includes the<br>Following Indented Parts) | 26      | 812-0082    | 2        | *Screw (#8-32 x 3/4")                                       |
|         | 321-0330    | 1        | Holder Assy, Fuse                                           | 27      | 508-0139    | 1        | *Channel, Rubber                                            |
|         | 332-0607    | 1        | Block, Terminal                                             | 28      | 835-0005    | 6        | *Washer, ET (#8)                                            |
|         | 821-0040    | 3        | Screw, Lock Head Flange<br>(#10-32 x 5/16")                 | 29      | 320-1688-01 | 1        | Breaker, Circuit (CB21)                                     |
|         | 307-2817-02 | 3        | Relay                                                       | 30      | 303-0261    | 1        | Potentiometer (R21)                                         |
|         | 319-2140    | 1        | Plate, Relay                                                | 31      | 815-0428    | 2        | Screw, ET Pan Head<br>(#10-32 x 3/8")                       |
|         | 323-1633-02 | 1        | Connector, Receptacle<br>(12 Pin)                           | 32      |             |          | Ammeter (M22)                                               |
|         | 323-1633-01 | 1        | Connector, Receptacle<br>(12 Pin)                           |         | 302-1473    | 1        | 0-50, 0-100                                                 |
|         | 323-1591    | 3        | Plug, Connector                                             |         | 302-2033    | 1        | 0-15, 0-30                                                  |
|         | 350-1222    | 1        | Resistor Assy                                               |         |             |          |                                                             |
|         | 323-1581    | 2        | Wedge, Receptacle                                           |         |             |          |                                                             |
|         | 323-1302    | 8        | Pin, Contact                                                |         |             |          |                                                             |
|         | 323-1308    | 1        | Housing, PCB (12 Pin)                                       |         |             |          |                                                             |
|         | 323-1200-01 | 15       | Contact, Socket                                             |         |             |          |                                                             |
|         | 323-1304    | 2        | Housing, Connector (6 Pl)                                   |         |             |          |                                                             |
|         | 323-1306    | 1        | Housing, Connector (8 Pl)                                   |         |             |          |                                                             |

\* – Parts Included in Voltage Regulator Assy.

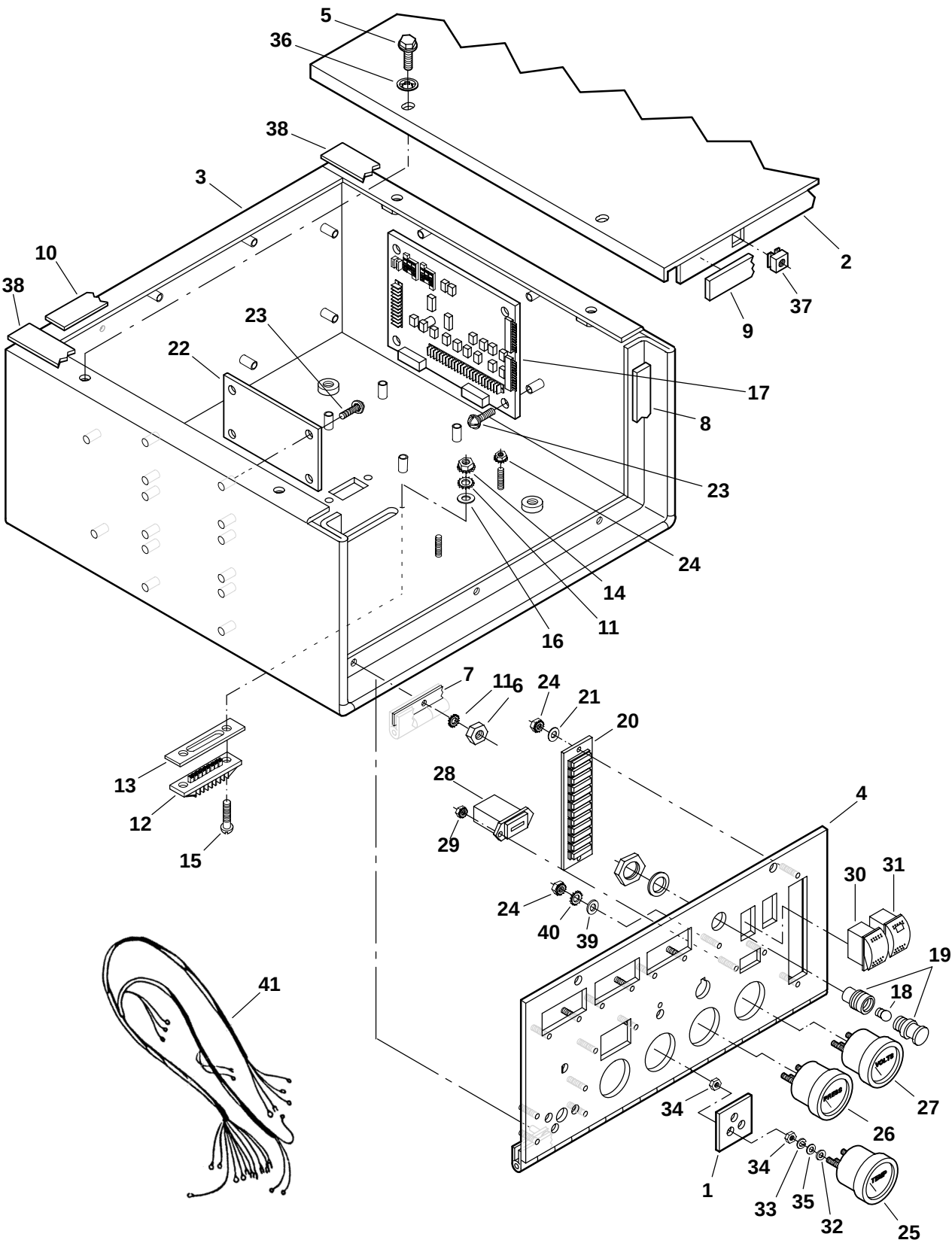
# AC Detector Control (Type III) (Begin Spec B)



**AC Detector Control  
(Type III)  
(Begin Spec B)**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                                              | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                         |
|---------|-------------|----------|---------------------------------------------------------------------------------------------------------------|---------|-------------|----------|------------------------------------------------------------------------------------------|
| 1       | 319-3030    | 1        | Box, Control                                                                                                  | 23      | 303-0261    | 1        | Potentiometer                                                                            |
| 2       | 815-0905-08 | 1        | Screw, Pan Head Cross Recessed (#10-32 x 7/8")                                                                | 24      | 355-0189    | 1        | Capacitor, Voltmeter (.1 Mfd., 500 WVDC) (C21)                                           |
| 3       | 856-0008    | 2        | Washer, EIT Lock (5/16")                                                                                      | 25      | 870-1220    | 6        | Nut, Hex (#4-40)                                                                         |
| 4       | 821-0014    | 8        | Screw, Hex Head Cap (5/16-18 x 3/8")                                                                          | 26      |             |          | Voltmeter, AC (M21)                                                                      |
| 5       | 402-0527    | 4        | Isolator, Vibration                                                                                           |         | 302-1148    | 1        | 0-300/600                                                                                |
| 6       | 337-0049    | 1        | Strap, Ground                                                                                                 |         | 302-1753    | 1        | 0-0750                                                                                   |
| 7       | 821-0014    | 1        | Screw, Hex Head Cap (5/16-18 x 1/2")                                                                          | 27      |             |          | Ammeter, AC (M22)                                                                        |
| 8       | 850-0045    | 4        | Washer, Spring Lock (5/16)                                                                                    |         | 302-2033    | 1        | 0-15, 0-30                                                                               |
| 9       | 406-0332    | 2        | Receptacle, Fastener                                                                                          |         | 302-1473    | 1        | 0-50, 0-100                                                                              |
| 10      | 871-0015    | 1        | Nut, Hex (1/4-20)                                                                                             | 28      | 302-1968    | 1        | Meter, Frequency (M23)                                                                   |
| 11      | 526-0018    | 1        | Washer, Flat (1/4")                                                                                           | 29      | 301-9054-01 | 1        | Door, AC Control                                                                         |
| 12      | 508-0051    | 1        | Grommet (Fits 2" Hole)                                                                                        | 30      | 821-0004    | 3        | Screw, Hex Washer Head Self-Locking (#10-32 x 5/16")                                     |
| 13      | 332-2723    | 1        | Strip, Marker                                                                                                 | 31      | 517-0302    | 1        | Grommet (Fits 2-1/2" Hole)                                                               |
| 14      | 815-0901-06 | 2        | Screw, Cross Recessed Thread Forming (#6-32 x 5/8")                                                           | 32      | 406-0333    | 2        | Stud, Fastener                                                                           |
| 15      | 332-0607    | 1        | Block, Terminal (12 Place) (TB21)                                                                             | 33      | 406-0334    | 2        | Washer, Stud Retainer                                                                    |
| 16      | 338-2278    | 1        | Harness, AC Control Door (Includes Terminal Block) (19 Wire, 26") (TB21, GND to GND, M21,22,23, S21, DS21,22) | 34      | 853-0008    | 1        | Washer, ET Lock (#10)                                                                    |
| 17      | 322-0363    | 1        | Light, Upper/Lower Indicator Scale (DS21,22)                                                                  | 35      | 308-1052    | 1        | Switch, Rotary (Voltmeter/Ammeter (Includes Handle) (S21)                                |
| 18      | 305-0844    | 1        | Regulator, Voltage                                                                                            | 36      | 815-0875-02 | 3        | Screw, Round Head Machine (M4 x 8mm)                                                     |
| 19      | 815-0905-08 | 4        | Screw, Cross Recessed (#10-23 x 7/8")                                                                         | 37      | 308-1082    | 1        | Handle, Rotary Switch                                                                    |
| 20      | 332-1043    | 1        | Jumper                                                                                                        | 38      | 338-3429    | 1        | Harness, Terminal Block (9 Wire, 11") (Includes Connector Plug and Sockets) (P2 to TB21) |
| 21      | 350-1222    | 1        | Resistor Assy                                                                                                 | 39      | 323-1644-02 | 1        | Plug, Connector (P2)                                                                     |
| 22      | 320-1688-01 | 1        | Breaker, Circuit                                                                                              | 40      | 323-1648    | 9        | Socket, Contact                                                                          |
|         |             |          |                                                                                                               | 41      | 338-3772    | 1        | Harness, AC Aux                                                                          |
|         |             |          |                                                                                                               | 42      | 323-1647    | AR       | Pin, Terminal                                                                            |
|         |             |          |                                                                                                               | 43      | 323-1644-01 | 1        | Housing, Plug                                                                            |

DC Detector Control  
(Type III)  
(Spec A)

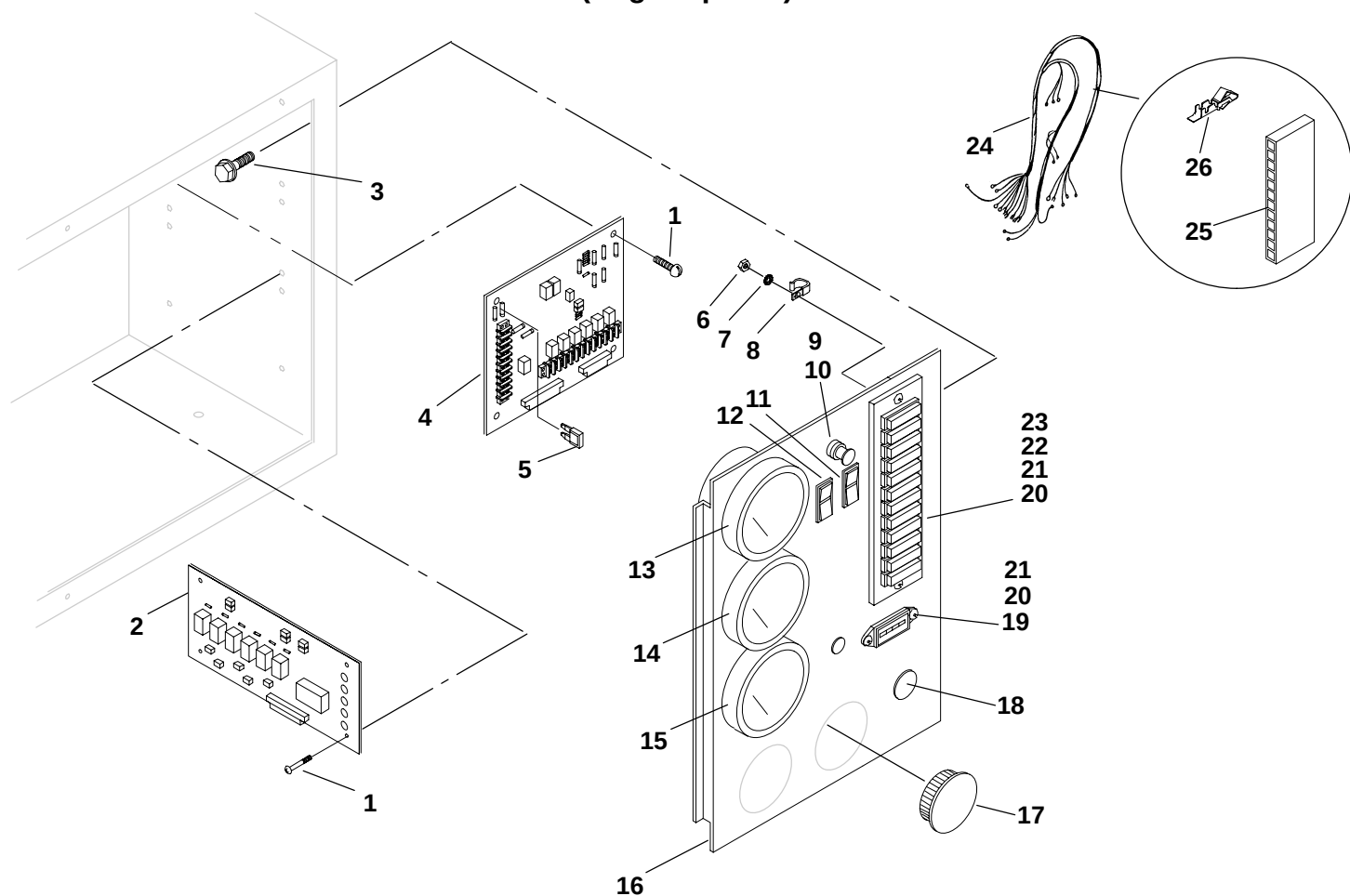




**DC Detector Control  
(Type III)  
(Spec A)**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                         | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                           |
|---------|-------------|----------|--------------------------------------------------------------------------|---------|----------|----------|------------------------------------------------------------|
| 1       | 300-4323    | 1        | PCB, Gauge                                                               | 21      | 526-0196 | 2        | Washer, Flat (7/32 x 7/16 x 1/8)                           |
| 2       | 319-2100-01 | 1        | Cover, Control Box                                                       | 22      | 300-2898 | 1        | Board, Time Delay Start/Stop /Preheat (12V)                |
| 3       | 319-2105    | 1        | Box, Control                                                             | 23      | 815-0550 | 8        | Screw, IT Round Head Machine Cross Recessed (#6-32 x 3/8") |
| 4       | 319-2491-03 | 1        | Panel, Control                                                           | 24      | 870-0183 | 4        | Nut, ET Hex (#6-32)                                        |
| 5       | 800-2034-01 | 6        | Bolt, Hex Head Cap (M6 x 1 x 20mm)                                       | 25      | 193-0351 | 1        | Gauge, Water Temperature (M12)                             |
| 6       | 860-2006    | 3        | Nut, Hex (M5 x .8)                                                       | 26      | 193-0466 | 1        | Gauge, Oil Pressure (M11)                                  |
| 7       | 895-0337    | 1        | Gasket, Hinge                                                            | 27      | 302-1641 | 1        | Meter, Volt (12V) (M13)                                    |
| 8       | 895-0336    | 2        | Gasket, Side                                                             | 28      | 302-0885 | 1        | Meter, Running Time (M14)                                  |
| 9       | 895-0338    | 1        | Gasket, Top                                                              | 29      | 870-1220 | 4        | Nut, ET Hex (#4-40)                                        |
| 10      | 895-0339    | 1        | Gasket, Cover                                                            | 30      | 308-1011 | 1        | Switch, Run/Stop/Remote (S12)                              |
| 11      | 853-0008    | 5        | Washer, ET Lock (#10)                                                    | 31      | 308-1010 | 1        | Switch, Reset/Lamp Test (S11)                              |
| 12      | 332-3239    | 1        | Block, Terminal                                                          | 32      | 526-0049 | 13       | Washer, Flat Brass (#10)                                   |
| 13      | 332-3244    | 1        | Gasket, Terminal Block                                                   | 33      | 850-0030 | 5        | Washer, Lock (#10)                                         |
| 14      | 870-0131    | 6        | Nut, ET Hex (#10-32)                                                     | 34      | 871-0010 | 10       | Nut, Hex Brass (#10-32)                                    |
| 15      | 813-0108    | 2        | Screw, Round Head Machine Slotted (#10-32 x 1.5")                        | 35      | 526-0409 | 8        | Washer, Nylon                                              |
| 16      | 526-0008    | 2        | Washer, Flat (#10)                                                       | 36      | 526-0422 | 6        | Washer, Nylon Retainer                                     |
| 17      | 300-4296    | 1        | Board, Engine Monitor (12V, 12 Light)                                    | 37      | 870-2195 | 2        | Nut, Captive Floating                                      |
| 18      | 322-0004    | 1        | Lamp (12V) (DS11)                                                        | 38      | 895-0353 | 2        | Gasket, Cover (Sides)                                      |
| 19      | 322-0361    | 1        | Light, Panel (DS11)                                                      | 39      | 526-0002 | 1        | Washer, Flat (#6)                                          |
| 20      | 322-0360-01 | 1        | Lamp Assy (12V, 12 Light) (A12) (Includes the Following Indented Lights) | 40      | 853-0005 | 1        | Washer, ET Lock (#8)                                       |
|         | 322-0238    |          | Run (Green)                                                              | 41      | 186-6365 | 1        | Harness, Engine                                            |
|         | 322-0241    |          | Pre Lo Oil Pres (Amber)                                                  |         |          |          |                                                            |
|         | 322-0240    |          | Pre Hi Eng Temp (Amber)                                                  |         |          |          |                                                            |
|         | 322-0108    |          | Lo Oil Pres (Red)                                                        |         |          |          |                                                            |
|         | 322-0109    |          | Hi Eng Temp (Red)                                                        |         |          |          |                                                            |
|         | 322-0111    |          | Overspeed (Red)                                                          |         |          |          |                                                            |
|         | 322-0107    |          | Overcrank (Red)                                                          |         |          |          |                                                            |
|         | 322-0167    |          | Blank (Amber)                                                            |         |          |          |                                                            |
|         | 322-0110    |          | Lo Eng Temp (Amber)                                                      |         |          |          |                                                            |
|         | 322-0113    |          | Lo Fuel (Amber)                                                          |         |          |          |                                                            |
|         | 322-0283    |          | Switch Off (Red)                                                         |         |          |          |                                                            |
|         | 322-0136    |          | Blank (Red)                                                              |         |          |          |                                                            |
|         | 322-0168    |          | Blank (Amber)                                                            |         |          |          |                                                            |

**DC Detector Control  
(Type III)  
(Begin Spec B)**



| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                     | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                                                                                 |
|---------|-------------|----------|------------------------------------------------------|---------|-------------|----------|----------------------------------------------------------------------------------------------------------------------------------|
| 1       | 815-0388    | 8        | Screw, Pan Head Cross Recessed (#6-32 x 1/2")        | 14      | 193-0351    | 1        | Gauge, Water Temperature (M12)                                                                                                   |
| 2       | 300-5098-01 | 1        | Board, PC Sensor Board (A27)                         | 15      | 302-1641    | 1        | Meter, Voltage (M13)                                                                                                             |
| 3       | 821-0004    | 3        | Screw, Hex Washer Head Self-Locking (#10-32 x 5/16") | 16      | 301-9055-01 | 1        | Door, DC Control                                                                                                                 |
| 4       | 300-4296    | 1        | Board Assy, PC Engine Monitor (Includes Fuses) (A11) | 17      | 517-0301    | 1        | Plug, Hole (Fits 2" Hole)                                                                                                        |
| 5       |             |          | Fuse                                                 | 18      | 517-0131    | 1        | Plug, Hole (Fits 7/8" Hole)                                                                                                      |
|         | 321-0307-03 | 2        | 5 Amp (Tan) (F4, F5)                                 | 19      | 302-2002    | 1        | Meter, Hour (M14)                                                                                                                |
|         | 321-0307-06 | 1        | 15 Amp (Light Blue) (F3)                             | 20      | 870-0183    | 4        | Nut, ET Hex (#6-32)                                                                                                              |
|         | 321-0307-07 | 2        | 20 Amp (Yellow) (F1, F2)                             | 21      | 815-0385    | 4        | Screw, Round Head Machine (#6-32 x 1/2")                                                                                         |
| 6       | 870-0131    | 1        | Nut, ET Hex (#10-32)                                 | 22      | 322-0360-01 | 1        | Light Assy, Indicator (Includes Wiring Harness and Connector Housing) (A12)                                                      |
| 7       | 853-0008    | 1        | Washer, ET Lock (#10)                                | 23      | 322-0369-01 | 1        | Light, Replacement Indicator                                                                                                     |
| 8       | 332-0052    | 2        | Clip, Wire                                           | 24      | 338-3252    | 1        | Harness, DC Control Door (Includes Connector Housing and Contact Pins) (22 Wire, 32") (A11J4 to GND, M11,12,13,14, S11,12, DS11) |
| 9       | 322-0004    | 1        | Bulb, Panel Replacement Light                        | 25      | 323-1308    | 1        | Housing, Connector (J4)                                                                                                          |
| 10      | 322-0361    | 1        | Light, Panel (DS11)                                  | 26      | 323-1302    | 11       | Pin, Contact                                                                                                                     |
| 11      | 308-1010    | 1        | Switch, Rocker (Lamp Test/Reset Panel Lamp) (S11)    |         |             |          |                                                                                                                                  |
| 12      | 308-1011    | 1        | Switch, Rocker (Run/Stop/Remote) (S12)               |         |             |          |                                                                                                                                  |
| 13      | 193-0466    | 1        | Gauge, Oil Pressure (M11)                            |         |             |          |                                                                                                                                  |

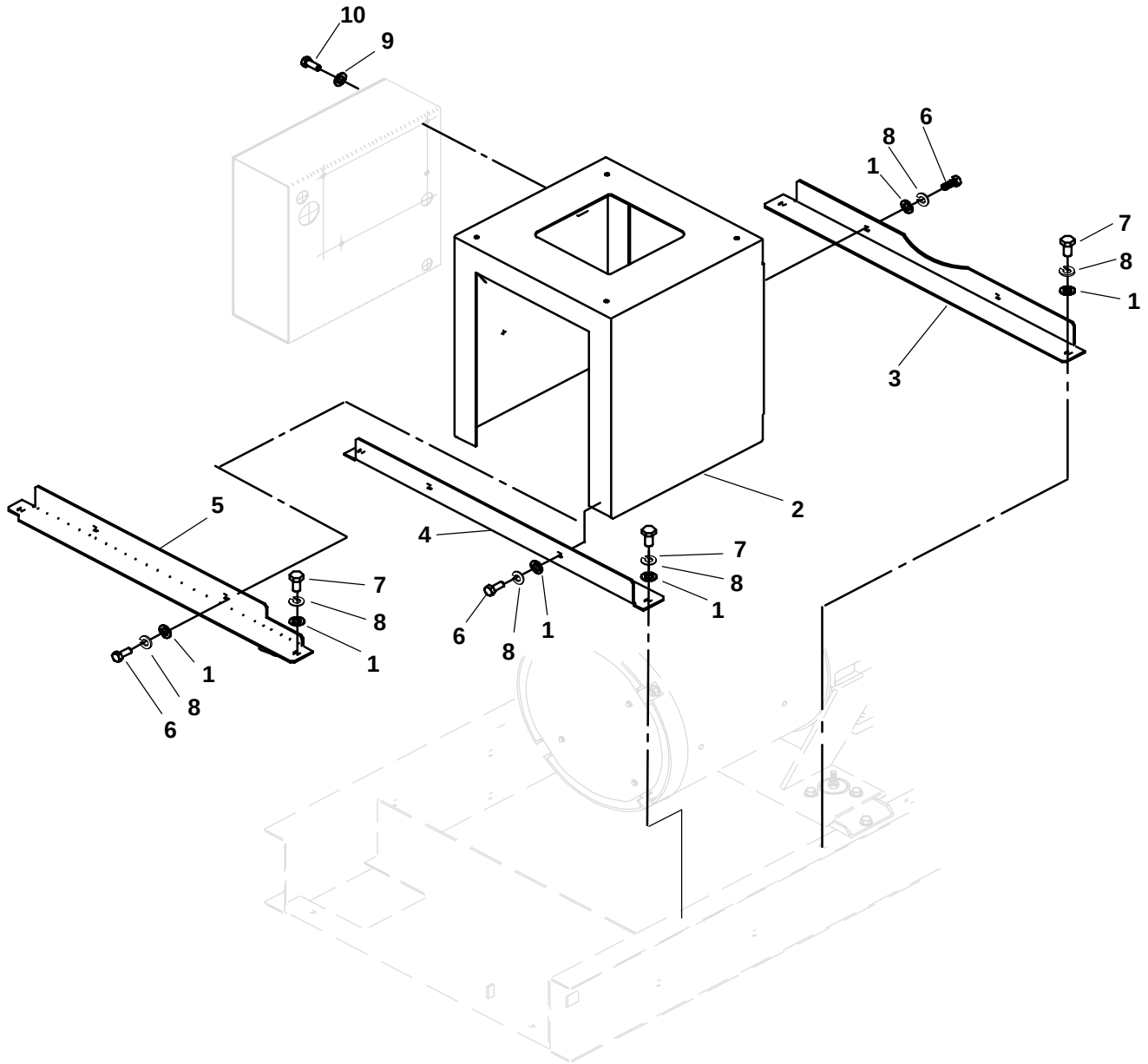
This diagram illustrates the components of a cable assembly, numbered 1 through 17. The components are shown in an exploded view, indicating their relative positions and assembly sequence. The components include:

- 1: A bundle of 17 individual wires with stripped ends.
- 2: A long, thin, rectangular component, likely a cable braid or shield.
- 3: A small, cylindrical component, possibly a ferrule or a small connector.
- 4: A larger, cylindrical component with a cross-shaped feature, likely a ferrule or a connector.
- 5: A small, L-shaped component, possibly a ferrule or a connector.
- 6: A small, rectangular component with two circular features, possibly a ferrule or a connector.
- 7: A small, rectangular component with two circular features, possibly a ferrule or a connector.
- 8: A long, thin, rectangular component with multiple circular features, likely a cable braid or shield.
- 9: A small, rectangular component with a circular feature, possibly a ferrule or a connector.
- 10: A small, cylindrical component, possibly a ferrule or a small connector.
- 11: A small, rectangular component with two circular features, possibly a ferrule or a connector.
- 12: A small, rectangular component with two circular features, possibly a ferrule or a connector.
- 13: A small, cylindrical component, possibly a ferrule or a small connector.
- 14: A small, L-shaped component, possibly a ferrule or a connector.
- 15: A small, rectangular component with two circular features, possibly a ferrule or a connector.
- 16: A small, rectangular component with two circular features, possibly a ferrule or a connector.
- 17: A small, rectangular component with two circular features, possibly a ferrule or a connector.

DNAA/B

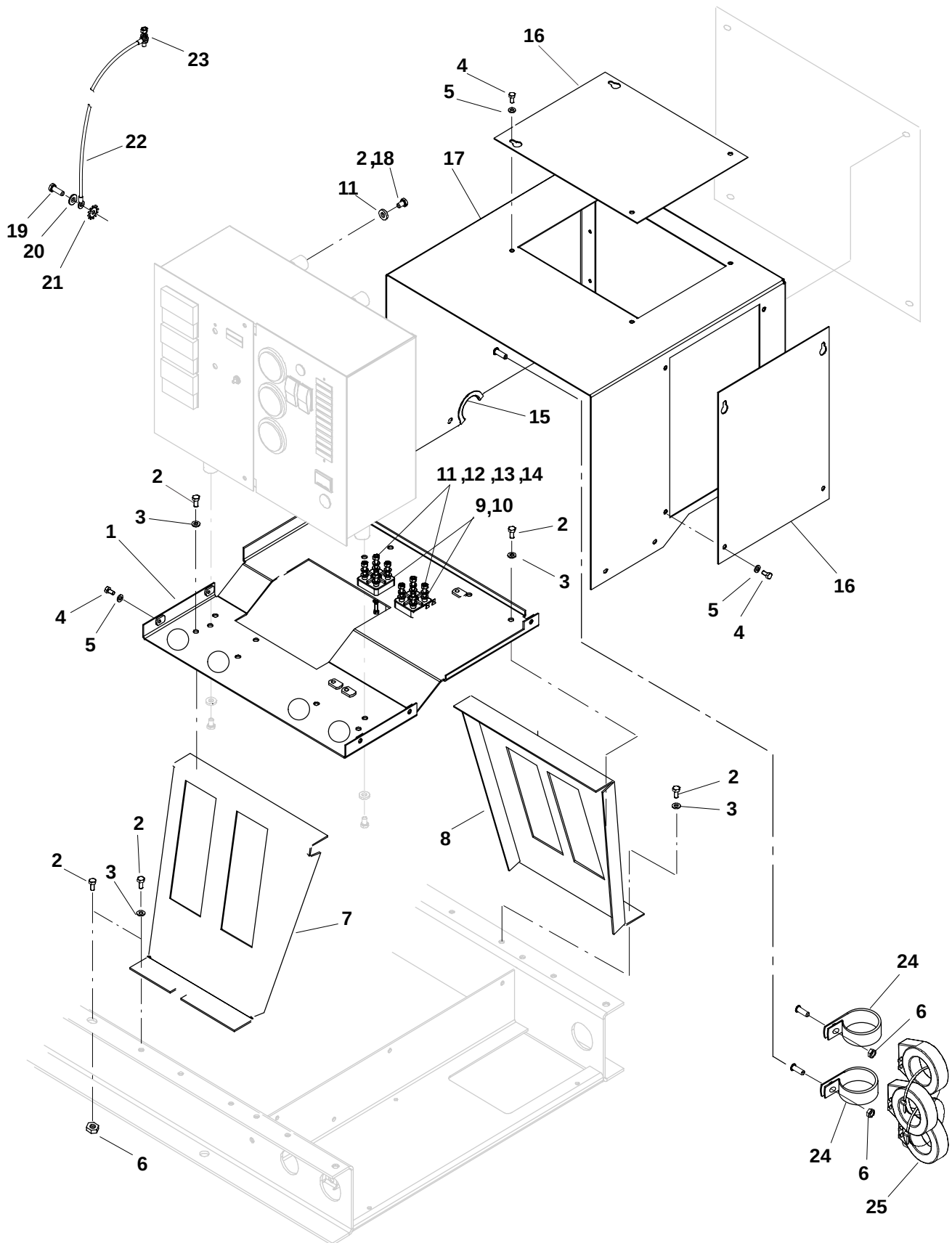


# **Detector Control Mount (Type III) (Spec A)**



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                                              | REF NO. | PART NO. | QTY USED | PART DESCRIPTION                       |
|---------|----------|----------|---------------------------------------------------------------|---------|----------|----------|----------------------------------------|
| 1       | 186-6975 | 8        | Washer, Flat (M8)                                             | 6       | 186-6668 | 4        | Screw, Hex Head Cap (M8 x 1.25 x 16mm) |
| 2       | 186-6878 | 1        | Saddle, Detector Box Mounting                                 | 7       | 186-6064 | 4        | Screw, Hex Head Cap (M8 x 1.25 x 20mm) |
| 3       | 186-6871 | 1        | Rail, Front Detector Box Support                              | 8       | 186-6529 | 8        | Washer, Spring (M8)                    |
| 4       | 186-6872 | 1        | Rail, Rear Detector Box Support (Use W/Single Wall Fuel Tank) | 9       | 186-6623 | 4        | Washer, EIT (5/16")                    |
| 5       | 186-6879 | 1        | Rail, Rear Detector Box Support (Use W/Dual Wall Fuel Tank)   | 10      | 186-6622 | 4        | Screw (M8 x 1.25 x 16mm)               |

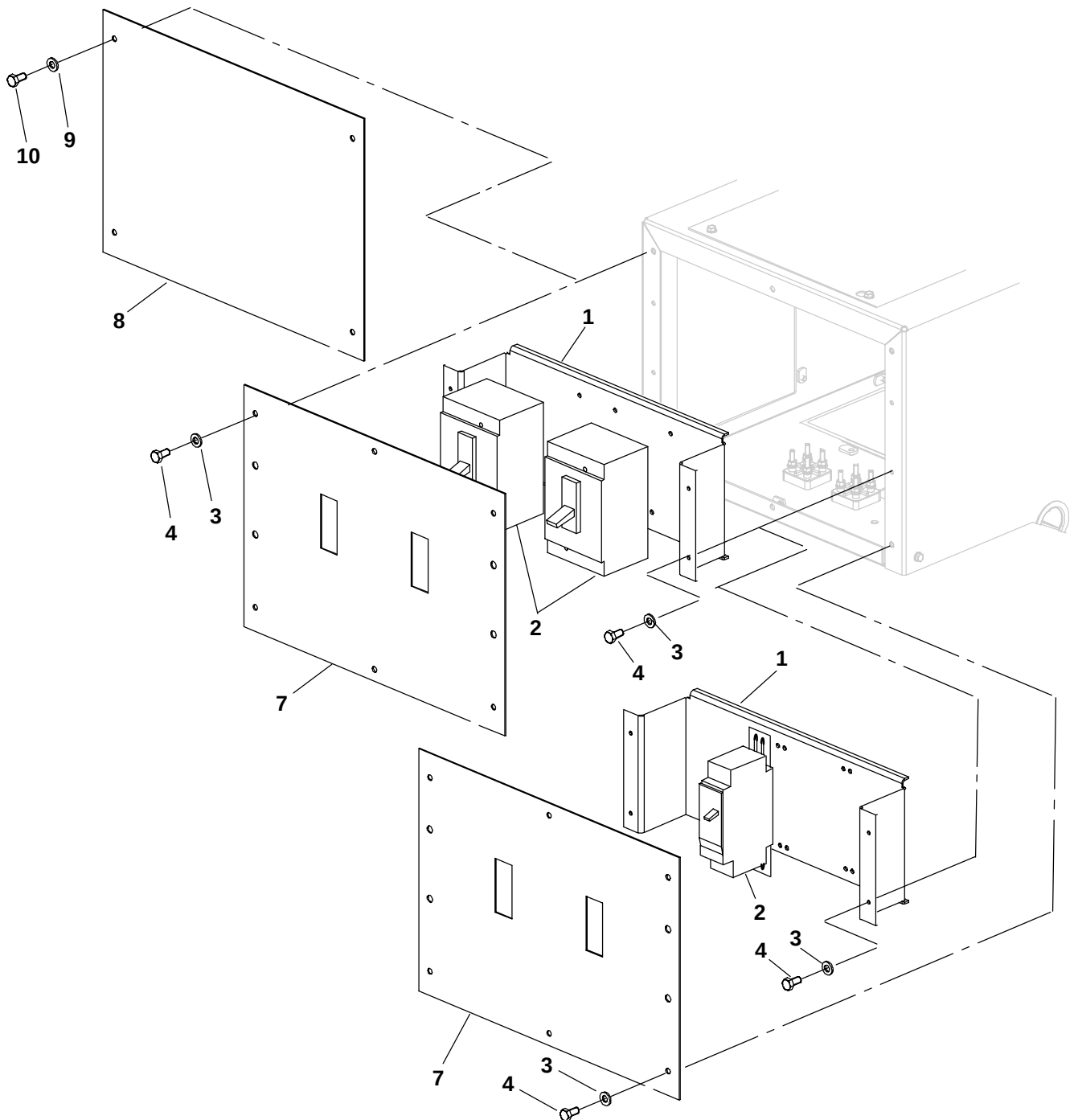
# **Detector Control Mount (Type III) (Begin Spec B)**



**Detector Control Mount  
(Type III)  
(Begin Spec B)**

| REF NO. | PART NO. | QTY USED | PART DESCRIPTION                             | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                      |
|---------|----------|----------|----------------------------------------------|---------|-------------|----------|-------------------------------------------------------|
| 1       | 319-3613 | 1        | Bottom, Control Box                          | 13      | 186-7076    | 2        | Washer, Flat (M5)                                     |
| 2       | 186-6064 | 8        | Screw, Hex Head Cap<br>(M8 x 1.25 x 20mm)    | 14      | 800-2004    | 2        | Screw, Hex Head Cap Thread<br>Cutting (M5 x .8 x 1mm) |
| 3       | 186-6975 | 8        | Washer, Flat (M8) (Rear<br>Mounted Brackets) | 15      | 186-7077    | 1        | Edging (3")                                           |
| 4       | 186-6037 | 14       | Screw, Hex Head Cap<br>(M6 x 1 x 12mm)       | 16      | 319-3316    | 2        | Cover, Control Housing                                |
| 5       | 186-6974 | 14       | Washer, Flat (M6)                            | 17      | 319-3612    | 1        | Top, Control Box Housing                              |
| 6       |          |          | Nut, Hex (M8 x 1.25)                         | 18      | 800-0024    | 4        | Screw, Hex Head Cap<br>(5/16-18 NC x 1/2")            |
|         | 186-6274 | 2        | For Rear Mounted Brackets                    | 19      | 186-7075    | 1        | Screw, Hex Head Thread<br>Cutting (5/16-18 x 1/2")    |
|         | 186-6274 | 4        | For Front and Middle<br>Mounted Brackets     | 20      | 186-7086    | 2        | Washer, Flat (3/8")                                   |
| 7       | 186-7113 | 1        | Bracket, Control Saddle                      | 21      | 862-0003    | 2        | Nut, Hex (3/8-16)                                     |
| 8       | 186-7114 | 1        | Bracket, Control Saddle                      | 22      | 186-6339    | 1        | Cable, Ground                                         |
| 9       | 186-6597 | 9        | Washer, Spring Lock (M6)                     | 23      | 862-0001    | 1        | Nut, Hex (1/4-20)                                     |
| 10      | 186-6209 | 9        | Nut, Hex (M6)                                | 24      | 186-7080    | 2        | Clamp, Tubing (1-1/4")                                |
| 11      | 186-6187 | 21       | Washer, Flat (5/16")                         | 25      |             |          | Transformer                                           |
| 12      | 332-3249 | 2        | Block, Terminal                              |         | 302-2034-02 | 3        | W/50-100A Ammeter                                     |
|         |          |          |                                              |         | 302-2034-03 | 3        | W/15-30A Ammeter                                      |

**Detector Control  
Circuit Breaker  
(Begin Spec B)**

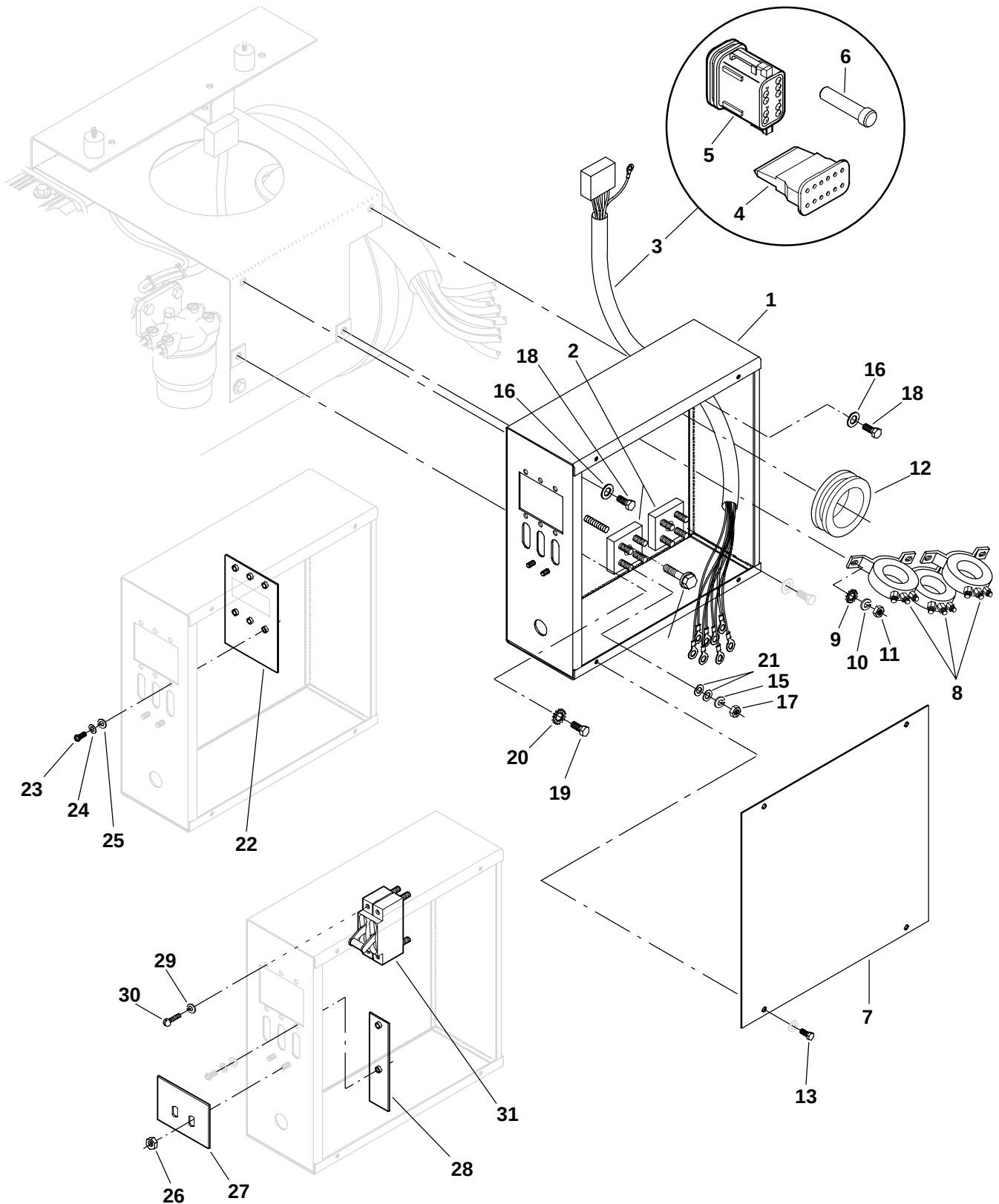




# **Detector Control Circuit Breaker (Begin Spec B)**

| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                         | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                |
|---------|-------------|----------|------------------------------------------|---------|-------------|----------|-------------------------------------------------|
| 1       |             |          | Bracket, Mounting                        | 5       |             |          | Nylock (M4 x 0.7)                               |
|         | 319-4135    | 1        | 2 Pole CB                                |         | 186-6831    | 4        | Single CB                                       |
|         |             |          | 3 Pole CB                                |         | 186-6831    | 8        | Dual CB                                         |
|         | 319-3825    | 1        | 480V Sets                                | 6       |             |          | Screw, Hex Head Cap<br>(M4 x 0.7 x 10mm)        |
|         | 319-3643-02 | 1        | 600V Sets                                |         |             |          | Single CB                                       |
| 2       |             |          | Breaker, Circuit                         |         | 186-7079    | 4        | Dual CB                                         |
|         |             |          | 2 Pole, 240V                             |         | 186-7079    | 8        | Panel, CB                                       |
|         | 320-2005-11 | 1        | 10A                                      | 7       |             |          | W/Circuit Breaker                               |
|         | 320-2005-10 | 1        | 15A                                      |         |             |          | 2 Pole                                          |
|         | 320-2005-09 | 1        | 20A                                      |         |             |          | Single CB                                       |
|         | 320-2005-08 | 1        | 25A                                      |         | 319-3826    | 1        | Dual CB                                         |
|         | 320-2005-07 | 1        | 30A                                      |         | 319-3827    | 1        | 3 Pole CB                                       |
|         | 320-2005-06 | 1        | 35A                                      |         |             |          | 480V Sets                                       |
|         | 320-2005-05 | 1        | 40A                                      |         |             |          | Single CB                                       |
|         | 320-2005-04 | 1        | 45A                                      |         | 319-3826    | 1        | Dual CB                                         |
|         |             |          | 3 Pole                                   |         | 319-3827    | 1        | 600V Sets                                       |
|         |             |          | 480V                                     |         |             |          | Single CB                                       |
|         | 320-2009-11 | 1        | 15A                                      |         | 319-3640-02 | 1        | Dual CB                                         |
|         | 320-2009-10 | 1        | 20A                                      |         | 319-3641    | 1        | Cover, Control Housing<br>(W/O Circuit Breaker) |
|         | 320-2009-09 | 1        | 30A                                      | 8       | 319-3611    | 1        | Washer, Flat (M6)                               |
|         |             |          | 600V                                     |         |             |          | Screw, Hex Head Cap<br>(M6 x 1 x 12mm)          |
|         | 320-1959-21 | 1        | 20A                                      | 9       | 186-6973    | 4        |                                                 |
|         | 320-1959-20 | 1        | 30A                                      | 10      | 186-6037    | 4        |                                                 |
| 3       | 186-6974    | 10       | Washer, Flat (M6)                        |         |             |          |                                                 |
| 4       | 186-6037    | 10       | Screw, Hex Head Cap<br>(M6 x 1.0 x 12mm) |         |             |          |                                                 |

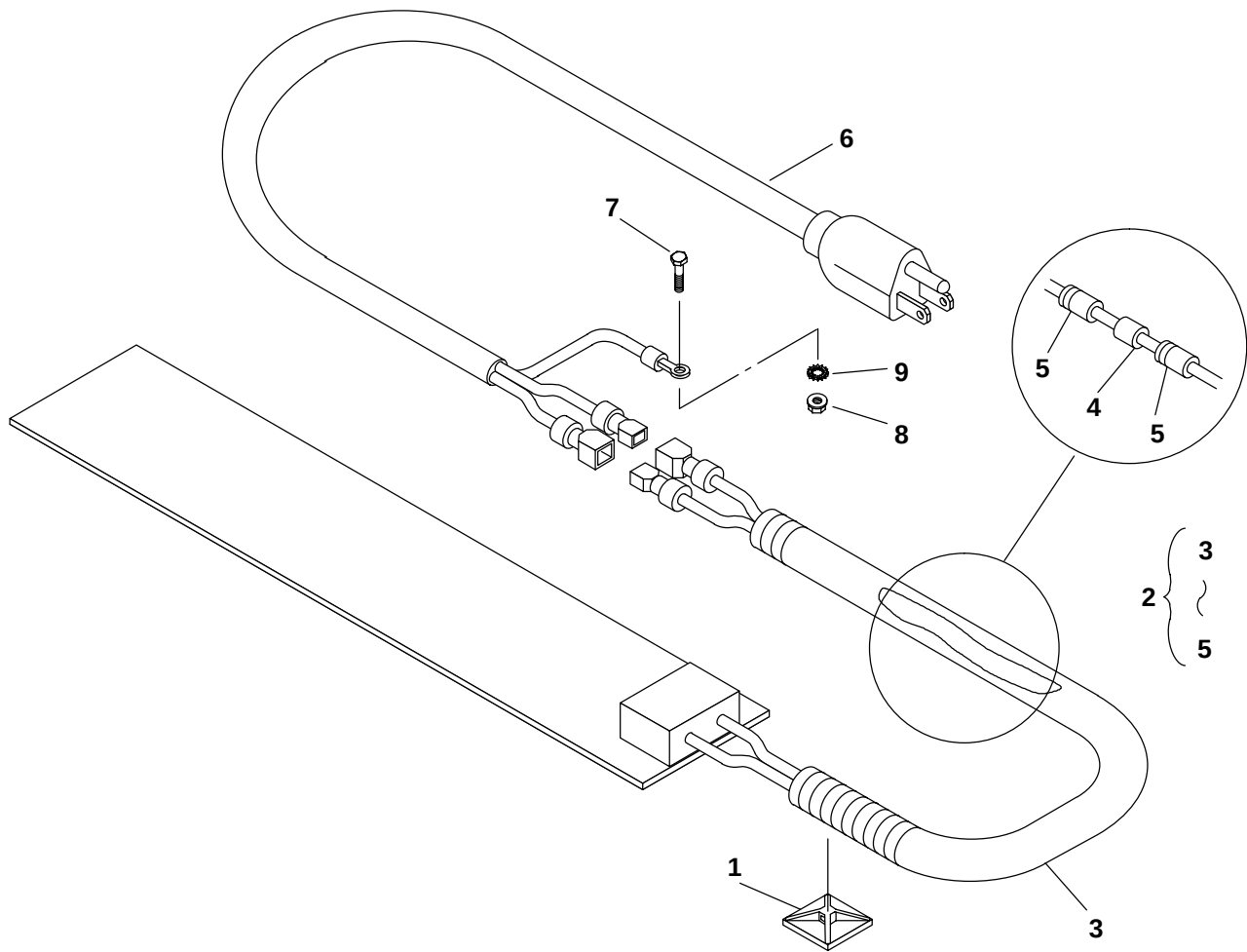
# **Output Box Detector Control (Type III)**



**Output Box  
Detector Control  
(Type III)**

| REF NO.                       | PART NO.    | QTY USED | PART DESCRIPTION                                    | REF NO.     | PART NO. | QTY USED | PART DESCRIPTION |
|-------------------------------|-------------|----------|-----------------------------------------------------|-------------|----------|----------|------------------|
| 1                             | 319-3102    | 1        | Panel, Control Box Side                             | 31          |          |          | Breaker, Circuit |
| 2                             | 332-3249    | 2        | Block, AC Terminal                                  |             |          |          | 2 Pole           |
| 3                             | 338-2990    | 1        | Harness, AC Generator<br>(Includes Wedge and Plugs) | 320-1841-02 | 1        |          | 15A              |
| 4                             | 323-1583    | 1        | Wedge, Plug (12 Pin)                                | 320-1841-03 | 1        |          | 20A              |
| 5                             | 323-1582-02 | 1        | Plug (12 Pin)                                       | 320-1841-04 | 1        |          | 25A              |
| 6                             | 323-1591    | 11       | Plug, Connector                                     | 320-1841-05 | 1        |          | 30A              |
| 7                             | 319-3131    | 1        | Cover, Control Box                                  | 320-1841-06 | 1        |          | 35A              |
| 8                             | 302-1984-03 | 3        | Transformer, Current                                | 320-1841-07 | 1        |          | 40A              |
| 9                             | 856-0006    | 1        | Washer, EIT Lock                                    | 320-1841-08 | 1        |          | 45A              |
| 10                            | 850-2056    | 6        | Washer, Spring Lock                                 | 320-1841-09 | 1        |          | 50A              |
| 11                            | 860-2057    | 6        | Nut, Hex                                            | 320-1841-10 | 1        |          | 55A              |
| 12                            | 508-1057    | 1        | Grommet                                             | 320-1841-11 | 1        |          | 60A              |
| 13                            | 821-6002-03 | 4        | Screw, Hex Head (M6 x 0.8)                          | 320-1841-12 | 1        |          | 65A              |
| 14                            | 821-2023    | 2        | Screw, Lock Flange                                  | 320-1841-13 | 1        |          | 70A              |
| 15                            | 186-6597    | 8        | Washer, Lock (M6)                                   | 320-1841-14 | 1        |          | 75A              |
| 16                            | 186-6618    | 2        | Washer, Spring (M8)                                 | 320-1841-15 | 1        |          | 80A              |
| 17                            | 186-6209    | 8        | Nut, Hex (M6 x 1)                                   | 320-1841-16 | 1        |          | 85A              |
| 18                            | 186-6668    | 2        | Screw, Hex Head Cap<br>(M8 x 1.25 x 16mm)           | 320-1841-17 | 1        |          | 90A              |
| 19                            | 186-6622    | 1        | Screw, Hex Head Cap<br>(M8 x 1.25 x 16)             | 320-1841-18 | 1        |          | 95A              |
| 20                            | 186-6623    | 1        | Washer, EIT (5/16")                                 | 320-1841-19 | 1        |          | 100A             |
| 21                            | 186-6591    | 16       | Washer, Flat (M6)                                   |             |          |          | 3 Pole           |
| Without Circuit Breaker, Use: |             |          |                                                     | 320-1827-02 | 1        |          | 15A              |
| 22                            | 319-2184    | 1        | Plate, Cover                                        | 320-1827-03 | 1        |          | 20A              |
| 23                            | 186-6488    | 6        | Screw (#6-32 x 3/8")                                | 320-1827-04 | 1        |          | 25A              |
| 24                            | 186-6663    | 6        | Washer, Flat (#6)                                   | 320-1827-05 | 1        |          | 30A              |
| 25                            | 186-6428    | 6        | Washer, Lock (#6)                                   | 320-1827-06 | 1        |          | 35A              |
| With Circuit Breaker, Use:    |             |          |                                                     | 320-1827-07 | 1        |          | 40A              |
| 26                            | 186-6913    | 2        | Nut, Lock (M6 x 1)                                  | 320-1827-08 | 1        |          | 45A              |
| 27                            | 186-6386    | 1        | Cover, CB                                           | 320-1827-09 | 1        |          | 50A              |
| 28                            | 319-2185    | 1        | Plate, CB Cover (Use With<br>2 Pole CB Only)        | 320-1827-10 | 1        |          | 55A              |
| 29                            | 186-6428    | 6        | Washer, Lock (#6)                                   | 320-1827-11 | 1        |          | 60A              |
| 30                            | 186-6488    | 6        | Screw (#6-32 x 3/8")                                | 320-1827-12 | 1        |          | 65A              |
|                               |             |          |                                                     | 320-1827-13 | 1        |          | 70A              |
|                               |             |          |                                                     | 320-1827-14 | 1        |          | 75A              |
|                               |             |          |                                                     | 320-1827-15 | 1        |          | 80A              |
|                               |             |          |                                                     | 320-1827-16 | 1        |          | 85A              |
|                               |             |          |                                                     | 320-1851-01 | 1        |          | 10A              |
|                               |             |          |                                                     | 320-1851-02 | 1        |          | 15A              |
|                               |             |          |                                                     | 320-1851-03 | 1        |          | 20A              |
|                               |             |          |                                                     | 320-1851-04 | 1        |          | 25A              |
|                               |             |          |                                                     | 320-1851-05 | 1        |          | 30A              |

## Control Heater



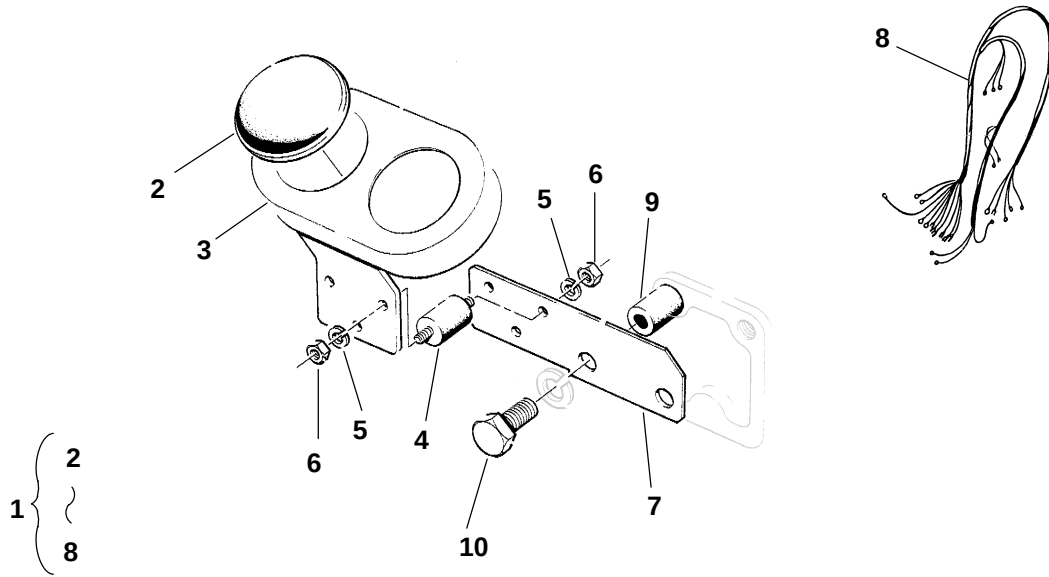
| REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                                                 | REF NO. | PART NO.    | QTY USED | PART DESCRIPTION                         |
|---------|-------------|----------|------------------------------------------------------------------|---------|-------------|----------|------------------------------------------|
|         | 300-4438    | 1        | Kit, Control Heater<br>120V (Includes Parts<br>Marked *)<br>240V | 4       | 357-0114    | 1        | Rectifier, Power                         |
|         | 300-4439-00 | 1        | W/O Cord (Includes Parts<br>Marked +)                            | 5       | 332-1789    | 2        | Splice, Window (18 Gauge)                |
|         | 300-4439-01 | 1        | W/Cord (Includes Parts<br>Marked + and #)                        | 6       | 335-0173    | 1        | * 120V                                   |
| 1       | 332-3338    | 2        | +*Mount, Cable Tie                                               |         | 335-0173-01 | 1        | # 240V                                   |
| 2       |             |          | Heater Assy, Control (Includes<br>Heater, Rectifier and Splice)  | 7       | 800-0024    | 1        | ##Screw, Hex Head Cap<br>(5/16-18 x 3/4) |
|         | 300-4514-01 | 1        | * 120V                                                           | 8       | 870-0257    | 1        | ##Nut, Self Locking Hex<br>(5/16-18)     |
|         | 300-4515-02 | 1        | + 240V                                                           | 9       | 856-0008    | 2        | ##Washer, Lock EIT (5/16)                |
| 3       |             |          | Heater, Control (120V)                                           |         |             |          |                                          |
|         | 333-0550-01 | 1        | 120V                                                             |         |             |          |                                          |
|         | 333-0550-02 | 1        | 240V                                                             |         |             |          |                                          |

\* – Parts Included in 120V Control Heater Kit.

+ – Parts Included in 240V Control Heater Kits W/ and  
W/O Cord.

# – Parts Included in 240V Control Heater Kit W/Cord.

**Gauge Panel - DNAB**  
**Manual (Type I)**  
**Remote (Type II)**



| REF NO. | PART NO. | QTY USED | PART DESCRIPTION              | REF NO. | PART NO. | QTY USED | PART DESCRIPTION    |
|---------|----------|----------|-------------------------------|---------|----------|----------|---------------------|
| 1       | 193-0476 | 1        | Kit, Running Time Meter       | 5       | 186-7042 | 6        | Washer, Spring      |
| 2       | 186-7049 | 1        | Meters/Gauge/Plug             | 6       | 186-7043 | 6        | Nut                 |
|         | 186-7031 | 1        | Plug, Blanking (Hard Plastic) | 7       | 186-7047 | 1        | Bracket, Mounting   |
| 3       | 186-7048 | 1        | Meter, Running Hour           | 8       | 186-7035 | 1        | Harness, Wiring     |
|         | 186-7044 | 1        | Panel, Double Gauge           | 9       | 186-7033 | 2        | Spacer              |
| 4       | 186-7044 | 3        | Mount, Flexible               | 10      | 186-7046 | 2        | Screw, Hex Head Cap |

## Gasket Sets

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                                      | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                                                                       |
|------------|-------------|-------------|----------------------------------------------------------|------------|-------------|-------------|-------------------------------------------------------------------------------------------|
|            |             |             | + Set, Decarbonizing Gasket<br>(Includes Parts Marked *) |            |             |             | Set, Overhaul Gasket (Includes<br>all listed in Decarbonizing Set<br>Plus Parts Marked +) |
| 186-6585   | 1           |             | DNAA                                                     | 186-6587   | 1           |             | DNAA                                                                                      |
| 186-6586   | 1           |             | DNAB                                                     | 186-6588   | 1           |             | DNAB                                                                                      |
|            |             |             | *Gasket, Cylinder Head Cover                             | -          |             |             | #+Gasket, End Cover (Cork)                                                                |
| 186-6117   | 2           |             | DNAA                                                     | 186-6147   |             |             | +Gasket, End Cover (Paper)                                                                |
| 186-6117   | 3           |             | DNAB                                                     |            |             |             | +Gasket, Crankcase Door                                                                   |
|            |             |             | *O'Ring, Cylinder Head Cover                             |            |             |             |                                                                                           |
| 186-6028   | 4           |             | DNAA                                                     | 186-6010   | 1           |             | DNAA                                                                                      |
| 186-6028   | 6           |             | DNAB                                                     | 186-6405   | 1           |             | DNAB                                                                                      |
|            |             |             | *Gasket, Cylinder Head                                   | 186-6017   | 1           |             | +Gasket, Fuel Lift Pump                                                                   |
|            |             |             | 1.40mm                                                   |            |             |             | +Shims, Main Bearing Housing                                                              |
| 186-6836   | 2           |             | DNAA                                                     | 186-6065   | 1           |             | .38mm                                                                                     |
| 186-6836   | 3           |             | DNAB                                                     | 186-6066   | 1           |             | .50mm                                                                                     |
|            |             |             | 1.53mm                                                   | 186-6129   | 2           |             | +O'Ring, Speed Control                                                                    |
| 186-6837   | 2           |             | DNAA                                                     | 186-6131   | 1           |             | +Washer, Speed Control (M5)                                                               |
| 186-6837   | 3           |             | DNAB                                                     | 186-6163   | 6           |             | +Washers, Fuel Filter                                                                     |
|            |             |             | 1.65mm                                                   |            |             |             | + Seal, Oil                                                                               |
| 186-6838   | 2           |             | DNAA                                                     | 186-6063   | 1           |             | Flywheel End                                                                              |
| 186-6838   | 3           |             | DNAB                                                     | 186-6148   | 1           |             | Gear End                                                                                  |
|            |             |             | *Gasket, Inlet Manifold                                  |            |             |             |                                                                                           |
| 186-6202   | 4           |             | DNAA                                                     |            |             |             | # – Discard. Not Used on DN Series.                                                       |
| 186-6202   | 6           |             | DNAB                                                     |            |             |             | * – Parts Included in Decarbonizing Gasket Set.                                           |
|            |             |             | *Gasket, Exhaust Manifold                                |            |             |             | + – Parts Included in Overhaul Gasket Set.                                                |
| 186-6206   | 4           |             | DNAA                                                     |            |             |             |                                                                                           |
| 186-6206   | 6           |             | DNAB                                                     |            |             |             |                                                                                           |
|            |             |             | *Rubber, Bottom Sealing Tube                             |            |             |             |                                                                                           |
| 186-6100   | 8           |             | DNAA                                                     |            |             |             |                                                                                           |
| 186-6100   | 12          |             | DNAB                                                     |            |             |             |                                                                                           |
|            |             |             | *Washer, Sealing Tube Rubber                             |            |             |             |                                                                                           |
| 186-6101   | 4           |             | DNAA                                                     |            |             |             |                                                                                           |
| 186-6101   | 6           |             | DNAB                                                     |            |             |             |                                                                                           |
|            |             |             | *Washer, Injector                                        |            |             |             |                                                                                           |
| 186-6173   | 2           |             | DNAA                                                     |            |             |             |                                                                                           |
| 186-6173   | 3           |             | DNAB                                                     |            |             |             |                                                                                           |
| -          | -           |             | #*Washer, Injector (Hole in<br>Center)                   |            |             |             |                                                                                           |
| -          | -           |             | #*Seal, Valve Stem                                       |            |             |             |                                                                                           |
|            |             |             | *Seal, Valve Stem                                        |            |             |             |                                                                                           |
| 186-6257   | 4           |             | DNAA                                                     |            |             |             |                                                                                           |
| 186-6257   | 6           |             | DNAB                                                     |            |             |             |                                                                                           |

## Labels

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION        | REF<br>NO.  | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION             |
|------------|-------------|-------------|----------------------------|-------------|-------------|-------------|---------------------------------|
|            | 098-6195    | 1           | Label, Caution             |             |             |             | Label, Reconnection Diagram     |
|            |             |             | Label, Control Panel       | 098-7356    | 1           |             | Spec A                          |
|            |             |             | (Start/Run/Off)            |             |             |             | Begin Spec B                    |
|            | 186-6308    | 1           | Manual                     | 098-7356    | 1           |             | Manual/Remote Control           |
|            | 186-6309    | 1           | Remote                     | 098-7356-01 | 1           |             | Detector Control                |
|            | 098-5347    | 4           | Label, Danger (Hazardous   | 098-7364    | 1           |             | Label, Sealed Battery           |
|            |             |             | Voltage                    | 098-7548    | 1           |             | Label, Switch                   |
|            | 098-7553    | 1           | Label, Hourmeter           | 098-2304    | 1           |             | Label, Warning (Voltage)        |
|            | 098-6139-08 | 2           | Label, Logo                | 098-4732    | 1           |             | Label, Warning (Automatic Start |
|            | 098-6304    | 1           | Label, Loose Leads         | 098-4798-01 | 1           |             | Label, Warning (Rotating Parts) |
|            |             |             | Label, On/Off/Start Switch | 098-5759    | 1           |             | Label, Warning (Backfeed        |
|            | 186-6302    | 1           | Manual                     |             |             |             | Utility)                        |
|            | 186-6309    | 1           | Remote                     | 098-5822-01 | 1           |             | Label, Warning (Skid Lift)      |
|            | 098-7554    | 1           | Label, Phase Selection     | 098-6074-02 | 1           |             | Label, Warning (Operation,      |
|            |             |             |                            |             |             |             | Maintenance, Service Risk)      |
|            |             |             |                            | 098-7367    | 1           |             | Label, Oil/Ground Drain-        |
|            |             |             |                            |             |             |             | Made In England                 |
|            |             |             |                            | 098-5387    | 2           |             | Label, Voltage Disconnect       |

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| 098-4732, <b>85</b>    |             | 186-6010, <b>9, 84</b>                     |             | 186-6064, <b>13, 75, 77</b> |             | 186-6142, <b>23</b>                    |             |
| 098-4798-01, <b>85</b> |             | 186-6014, <b>9, 35</b>                     |             | 186-6065, <b>13, 84</b>     |             | 186-6143, <b>14, 23</b>                |             |
| 098-5347, <b>85</b>    |             | 186-6015, <b>9, 18, 35, 37, 38, 40, 41</b> |             | 186-6066, <b>13, 84</b>     |             | 186-6145, <b>23</b>                    |             |
| 098-5387, <b>85</b>    |             | 186-6017, <b>26, 84</b>                    |             | 186-6072, <b>13</b>         |             | 186-6147, <b>18, 84</b>                |             |
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| 098-6139-08, <b>85</b> |             | 186-6022, <b>11</b>                        |             | 186-6081, <b>13</b>         |             | 186-6152, <b>27</b>                    |             |
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| 098-7554, <b>85</b>    |             | 186-6032, <b>35</b>                        |             | 186-6095, <b>17</b>         |             | 186-6163, <b>84</b>                    |             |
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