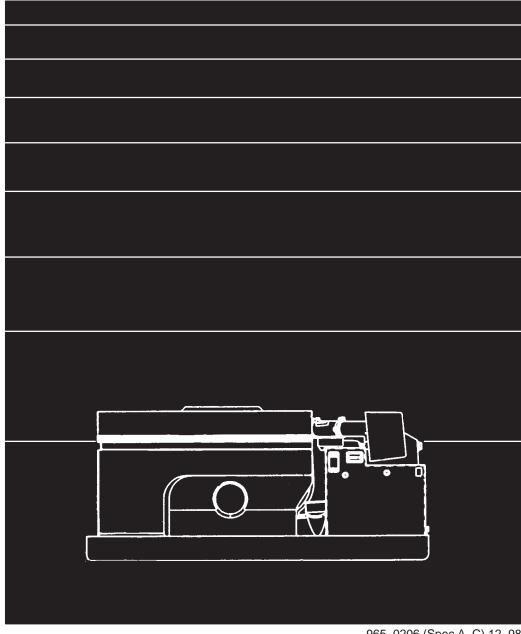


# **Parts Catalog**

TGHAA

## **Generator Set**



Printed in U.S.A.

965–0206 (Spec A–C) 12–98 Replaces 965–0204 (Spec A) 1–97

## 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.

DANGER

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 INSTRUC-TIONS 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 REPRODUC-TIVE 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 manual applies to the standard Generator Set as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified 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.

| MODEL<br>NUMBER | WIRING<br>DIAGRAM | VOLTS   | HERTZ | WIRE | FUEL        |
|-----------------|-------------------|---------|-------|------|-------------|
| 5.6TGHAA/*      | 611–1247          | 120/240 | 60    | 2    | Natural Gas |
| 5.6TGHAA/*      | 611–1247          | 120     | 60    | 2    | Natural Gas |
| 5.6TGHAA/*      | 611–1247          | 230     | 50    | 2    | LP Vapor    |
| 6.0TGHAA/*      | 611–1247          | 120/240 | 60    | 2    | LP Vapor    |
| 6.0TGHAA/*      | 611–1247          | 120     | 60    | 2    | LP Vapor    |

#### **Generator Set Data Table**

\* – The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

**NOTE:** See Parts Book **#913–0202** for Transfer Switch Information.

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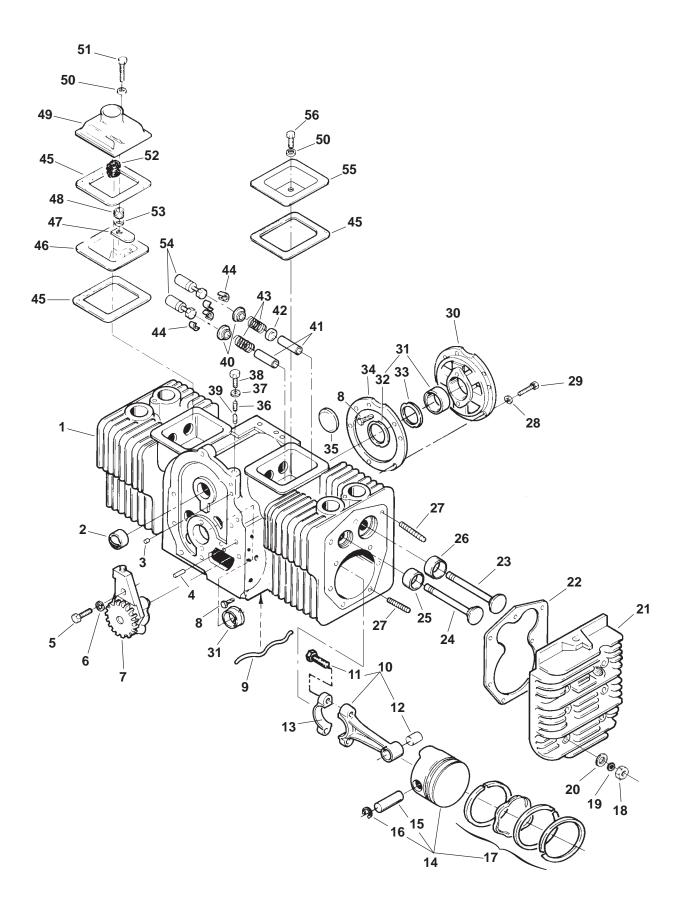
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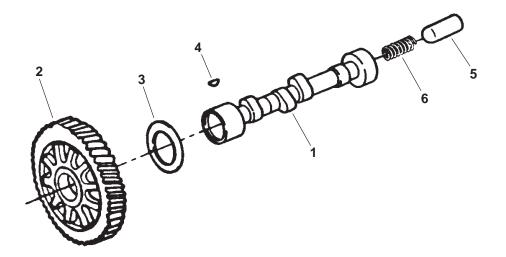
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## Cylinder Block

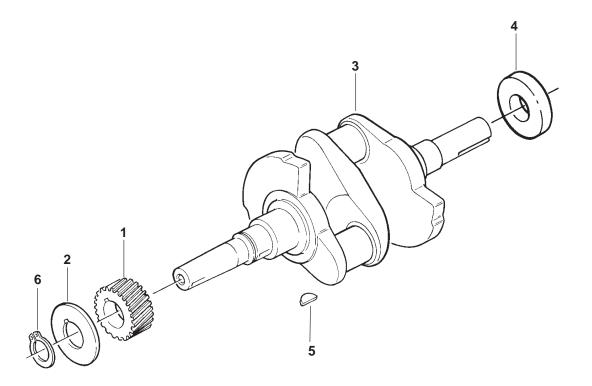
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|------------|----------------------|-------------|---|------------|----------------------------|-------------|--|
| 1          |                      |             | Block, Cylinder (See<br>Shortblock Catalog<br>#932–0109)        | 27         | 520–0919                   | 8           | Stud, Cylinder Head Mounting<br>3/8 x 2–19/32" (Install 4<br>Bottom Holes – RH, LH |
| 2<br>3     | 101–0405<br>517–0067 | 2<br>1      | Bearing, Camshaft (Precision)<br>Plug, Core Hole                |            | 520-0876                   | 4           | Heads)<br>3/8 x 2–3/4" (Install 2 Top  |
| 4<br>5     | 516–0141<br>800–0007 | 2<br>2      | Pin, Gearcase Alignment<br>Screw, Hex Head Cap<br>(1/4–20 x 1") |            | 520-0918                   | 8           | Holes – RH, LH Heads)<br>3/8 x 3" (Install 4 Middle<br>Holes – RH, LH Heads)       |
| 6          | 740–1004             | 2           | Washer, Flat (M6)   | 28         | 526-0402                   | 5           | Washer, Flat (.395")   |
| 7          | 120–0491             | 1           | Pump, Oil (Components Not<br>Sold Separately)                   | 29         | 800-0051-01                | 5           | Screw, Hex Head Cap<br>(3/8–16 x 1–1/4")   |
| 8          | 516-0072             | 2           | Pin, Bearing Stop Drive   | 30         | 101–0439                   | 1           | Plate, Rear Bearing  |
| 9          | 120-1320             | 1           | Tube, Cylinder Block Oil  | 31         |                            |             | Bearing, Crankshaft  |
| 10         | 114–0203             | 2           | Rod, Connecting (Includes Bolt                                  |            | 101 0004                   | 2           | (Includes Thrust Washer)   |
| 11         | 805–0010             | 4           | and Bushing)<br>Bolt, Connecting Rod                            |            | 101–0804<br>101–0804–02    | 2<br>2      | Standard<br>.002" Undersize  |
|            | 000-0010             | -           | (Special)   |            | 101-0804-02                | 2           | .010" Undersize  |
| 12         | 114–0036             | 2           | Bushing, Piston Pin   |            | 101-0804-20                | 2           | .020" Undersize  |
| 13         |                      |             | Bearing, Connecting Rod Half                                    |            | 101-0804-30                | 2           | .030" Undersize  |
|            | 114–0188             | 4           | Standard  | 32         | 104–0575                   | 2           | Washer, Thrust (Special)   |
|            | 114-0188-02          | 4           | .002" Undersize   | 33         |                            |             | Shim, Crankshaft   |
|            | 114–0188–10          |             | .010" Undersize   |            | 104–0776                   | 1           | .005"  |
|            | 114-0188-20          |             | .020" Undersize   |            | 104–0776–01                | 1           | .003"  |
| 4.4        | 114–0188–30          | 4           | .030" Undersize   | 24         | 101–0809                   | 4           | Use as Required  |
| 14         |                      |             | Piston (Includes Pin, Rings and<br>Retaining Rings)             | 34<br>35   | 517-0048-01                | 1<br>1      | Gasket, Bearing Plate<br>Plug, Camshaft Welch                                      |
|            | 112-0265             | 2           | Standard  | 35         | 517-0040-01                | I           | Opening (1–5/8")   |
|            | 112-0265-05          | 2           | .005 Oversize   | 36         | 120-0140                   | 1           | Spring, Bypass Valve   |
|            | 112-0265-01          | 2           | .010 Oversize   | 37         | 526-0066                   | 1           | Washer, Copper Flat (3/8")   |
|            | 112-0265-02          | 2           | .020 Oversize   | 38         | 801-0050                   | 1           | Screw, Hex Head Cap  |
|            | 112-0265-03          | 2           | .030 Oversize   |            |                            |             | 21 psi (3/8–24 x 7/8")   |
| 15         | 112-0268             | 2           | Pin, Piston   | 39         | 120-0398                   | 1           | Plunger, Bypass Valve  |
| 16         | 112–0267             | 4           | Ring, Retaining   | 40         | 110–0904                   | 4           | Rotocap, Exhaust   |
| 17         | 113–0311             | 2           | Kit, Piston Ring<br>Standard                                    | 41         | 110–3167                   | 2           | Guide, Valve<br>Exhaust  |
|            | 113-0311-05          | 2           | .005 Oversize   |            | 110–3168                   | 2           | Intake   |
|            | 113-0311-01          | 2           | .010 Oversize   | 42         | 110–3604                   | 2           | Seal, Intake Valve Stem Oil  |
|            | 113-0311-02          | 2           | .020 Oversize   | 43         | 110-0539                   | 4           | Spring, Valve  |
|            | 113–0311–03          | 2           | .030 Oversize   | 44         | 110–0639                   | 8           | Lock, Valve Spring   |
| 18         | 104–0091             | 20          | Nut, Hex (Special) (3/8–24)                                     | 45         | 110–3575                   | 3           | Gasket, Valve Cover  |
| 19         | 851–0029             | 24          | Washer, Compression Lock  | 46         | 123–1653                   | 1           | Pan, Breather  |
| 20         | 500 0050             | 20          | (Special) (3/8 x 1–1/16 OD)                                     | 47         | 123-1175                   | 1           | Reed, Breather Valve   |
| 20<br>21   | 526–0250<br>110–3549 | 20<br>2     | Washer, Flat (Special) (3/8")<br>Head, Cylinder                 | 48<br>49   | 123–1174<br>123–1654       | 1<br>1      | Spring, Breather Valve<br>Cover, Left Side Breather                                |
| 22         | 110-2987             | 2           | Gasket, Cylinder Head   | 50         | 526-0063                   | 2           | Washer, Copper Flat (1/4")   |
| 23         | 110-1718             | 2           | Valve, Intake   | 51         | 800-0013                   | 1           | Screw, Hex Head Cap  |
| 24         | 110–1719             | 2           | Valve, Exhaust  |            |                            |             | (1/4–20 x 2–1/2")  |
| 25         |                      |             | Seat, Exhaust Valve   | 52         | 123–1871                   | 1           | Filter, Breather   |
|            | 110–3462             | 2           | Standard  | 53         | 526-0018                   | 1           | Washer, Flat (1/4")  |
|            | 110-3462-01          | 2           | .002" Oversize  | 54         |                            |             | Tappet, Valve  |
|            | 110-3462-02          |             | .005" Oversize  |            | 115-0006                   | 4           | Standard   |
|            | 110-3462-03          |             | .010" Oversize<br>.025" Oversize                                |            | 115-0006-02                | 4           | .002" Oversize   |
| 26         | 110-3462-04          | Z           | Seat, Intake Valve  | 55         | 115-0006-05<br>110-1624-01 | 4<br>1      | .005" Oversize<br>Cover, Right Side Valve  |
| 20         | 110–3655             | 2           | Standard  | 56         | 800-0011                   | 1           | Screw, Hex Head Cap  |
|            | 110-3655-02          | 2           | .002" Oversize  | 00         | 000 0011                   |             | (1/4–20 x 2")  |
|            | 110-3655-05          |             | .005" Oversize  |            |                            |             | · · · /  |
|            | 110-3655-10          |             | .010" Oversize  |            |                            |             |  |
|            | 110-3655-25          | 2           | .025" Oversize  |            |                            |             |  |

## Camshaft



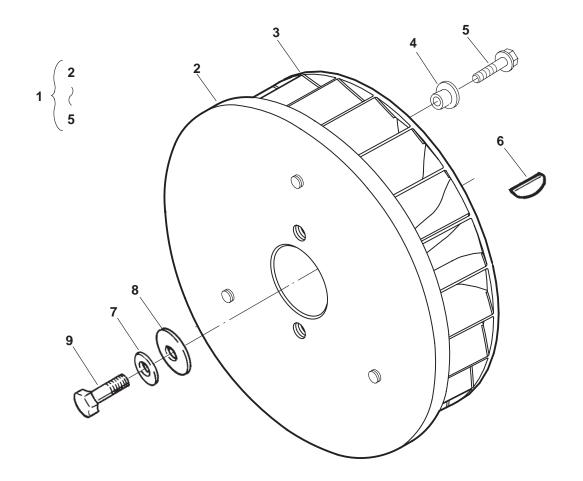
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|------------|-------------|-------------|---------------------------|------------|-------------|-------------|---------------------|
| 1          | 105–0676    | 1           | Camshaft                  | 4          | 515-0001    | 1           | Key, Woodruff       |
| 2          | 105–0641    | 1           | Gear (Includes Spacer and | 5          | 105–0058    | 1           | Plunger, Camshaft   |
|            |             |             | Plate)                    | 6          | 105–0059    | 1           | Spring, Plunger     |
| 3          | 105–0541    | 1           | Washer, Thrust            |            |             |             |                     |

## Crankshaft



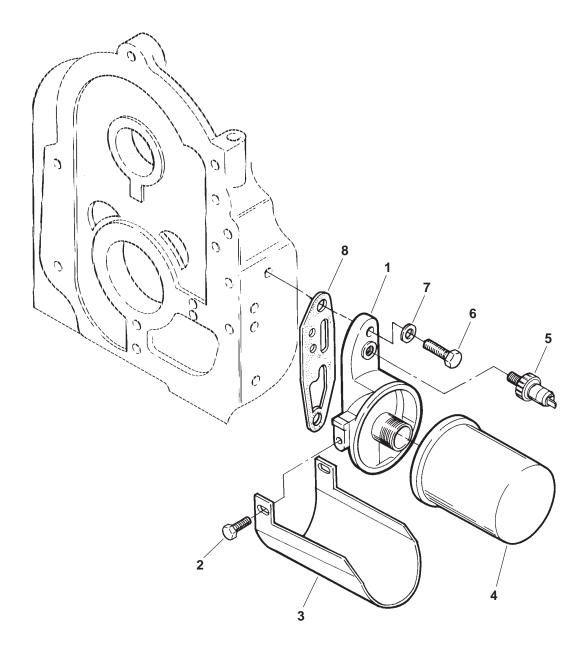
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|------------|-------------|-------------|---------------------|------------|-------------|-------------|---------------------|
| 1          | 104–0032    | 1           | Gear, Crankshaft    | 4          | 509-0041    | 1           | Seal, Rear Oil      |
| 2          | 104–0043    | 1           | Washer, Gear        | 5          | 515-0001    | 1           | Key, Gear           |
| 3          | 104–1736    | 1           | Crankshaft          | 6          | 518–0014    | 1           | Ring, Retaining     |

**Blower Wheel** 



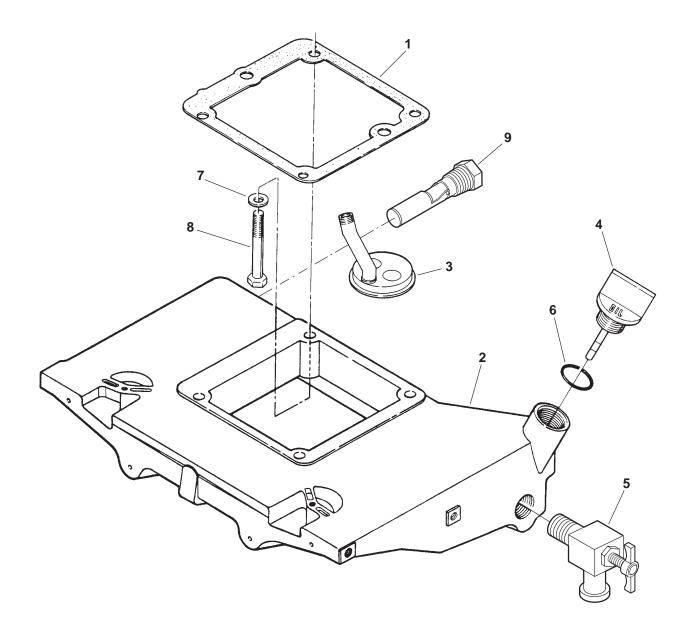
| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                        | REF<br>NO. | PART<br>NO.   | QTY<br>USED | PART<br>DESCRIPTION                       |
|------------|-------------|-------------|--|------------|---------------|-------------|---|
| 1          | 134–5182    | 1           | Wheel, Blower (Includes Parts<br>Marked *) | 8          | 526–0017      | 1           | Washer, Flat (7/16" x 1/4"Thk)<br>Special |
| 2          | 134–5150    | 1           | *Hub, Blower Wheel                         | 9          | 104–0170      | 1           | Screw (Special)                           |
| 3          | 205–0249    | 1           | *Fan                                       |            |               |             |   |
| 4          | 134–4531    | 3           | *Insert, Fan                               |            |               |             |   |
| 5          | 821–2034    | 3           | *Screw, Lock Flange                        | * —        | Parts Include | d in Blowe  | er Wheel.                                 |
| 6          | 515-0098    | 1           | Key, Blower Wheel                          |            |               |             |   |
| 7          | 526-0356    | 1           | Washer, Flat (7/16" x 1/8"Thk)<br>Special  |            |               |             |   |

## **Oil Filter**



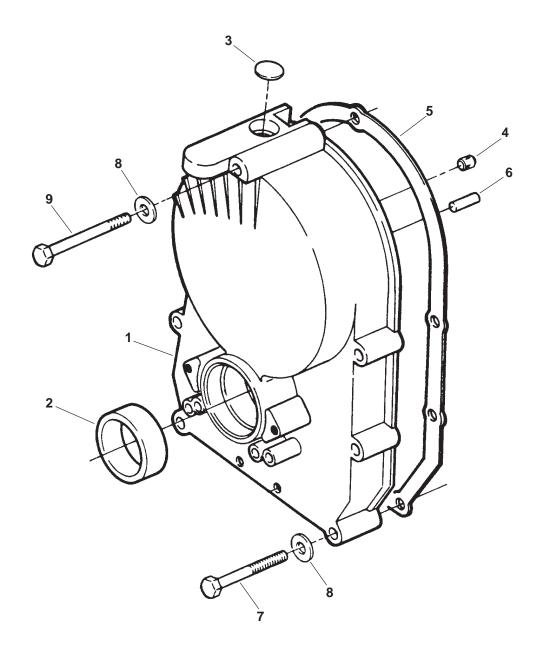
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|------------|-------------|-------------|--|------------|-------------|-------------|---------------------------------------|
| 1          | 122–0814    | 1           | Adapter, Oil Filter (Includes            | 4          | 122–0469    | 1           | Filter, Oil                           |
|            |             |             | Screws)                                  | 5          | 309–0615    | 1           | Switch, Low Oil Pressure (S2)         |
| 2          | 815–0340    | 2           | Screw, Hex Washer Head<br>Thread Forming | 6          | 800-0028-01 | 2           | Screw, Hex Head Cap<br>(5/16–18 x 1") |
|            |             |             | (#10–32 x 3/8")                          | 7          | 526-0065    | 2           | Washer, Copper Flat (5/16")           |
| 3          | 122-0360-53 | 1           | Drain, Oil Filter                        | 8          | 122-0771    | 1           | Gasket, Oil Filter Adapter            |

Oil Base



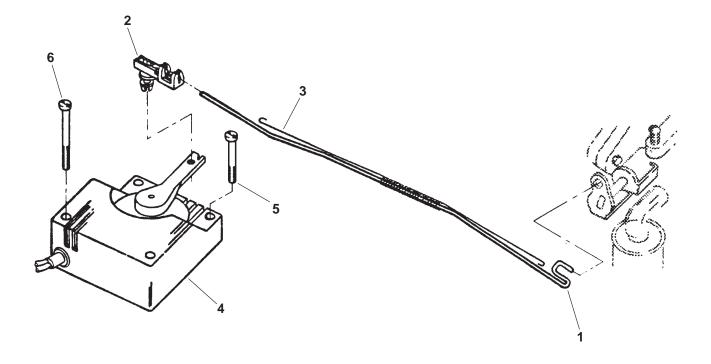
| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION    |
|------------|-------------|-------------|---------------------|------------|-------------|-------------|------------------------|
| 1          | 102–1387    | 1           | Gasket, Oil Base    | 6          | 509-0246    | 1           | O'Ring (1–1/4" ID)     |
| 2          | 102-1457-02 | 1           | Base, Oil           | 7          | 526-0251    | 4           | Washer, Flat (3/8")    |
| 3          | 123–1616    | 1           | Cup, Oil Pickup     | 8          | 800-0052-01 | 4           | Screw, Hex Head Cap    |
| 4          | 123-2092    | 1           | Cap, Oil Fill       |            |             |             | (3/8–16 x 1–1/2")      |
| 5          | 504-0150    | 1           | Valve, Shut–Off     | 9          | 309–0653    | 1           | Switch, Oil Level (S4) |
|            |             |             |                     |            |             |             |                        |

Gearcase

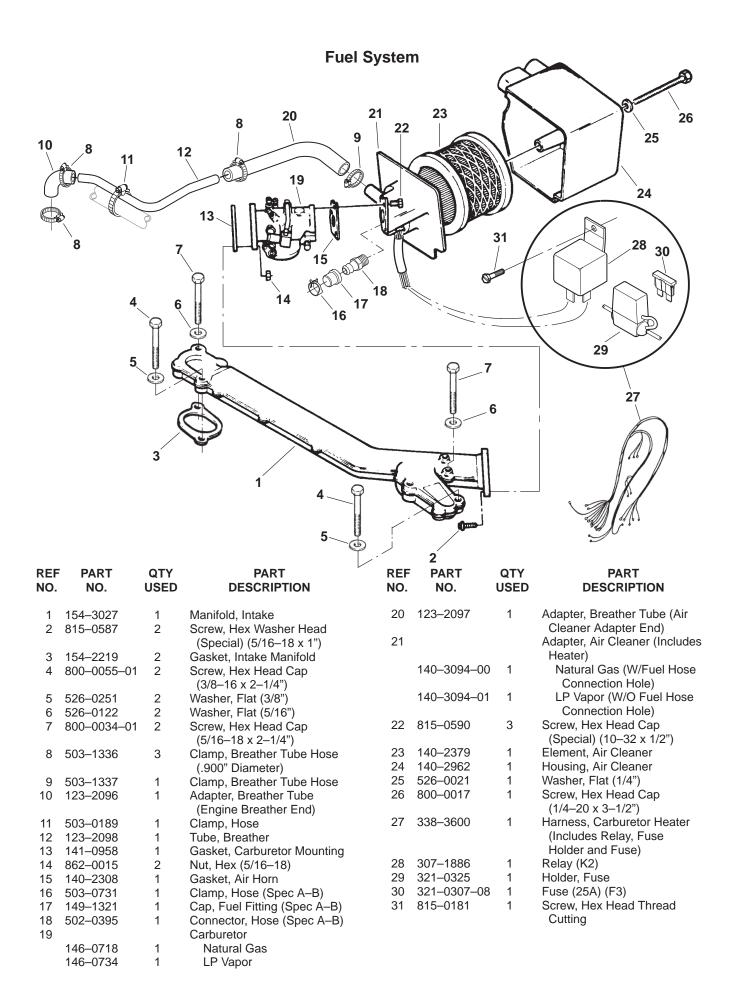


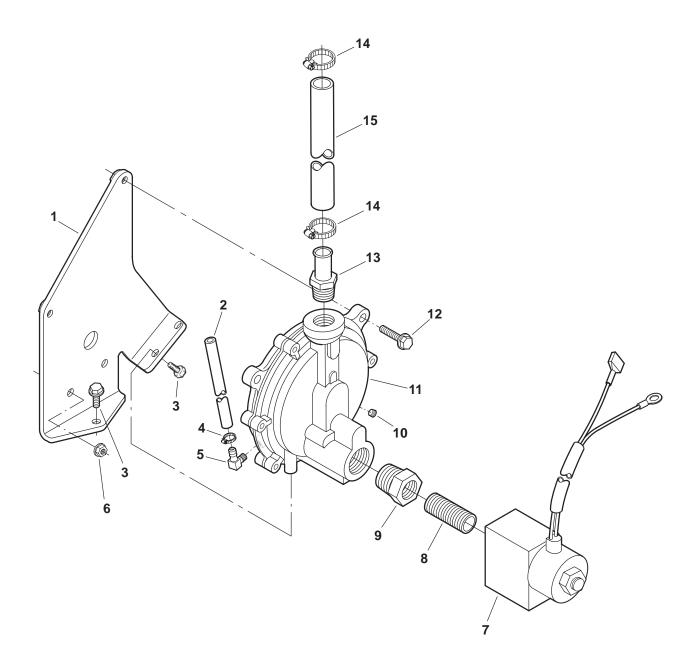
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|------------|-------------|-------------|-----------------------------|------------|-------------|-------------|----------------------|
| 1          | 103–0813    | 1           | Gearcase (Includes Oil Seal | 6          | 516-0141    | 2           | Pin, Alignment       |
|            |             |             | and Plugs)                  | 7          | 800-0032-01 | 4           | Screw, Hex Head Cap  |
| 2          | 509–0040    | 1           | Seal, Oil                   |            |             |             | (5/16–18 x 1–3/4")   |
| 3          | 517-0293    | 1           | Plug, Expansion             | 8          | 526-0065    | 5           | Washer, Flat (5/16") |
| 4          | 516-0051    | 1           | Plug, Gearcase              | 9          | 800–0545    | 1           | Screw, Hex Head Cap  |
| 5          | 103–0810    | 1           | Gasket, Gearcase            |            |             |             | (2–3/4" Lg.)         |

#### Governor



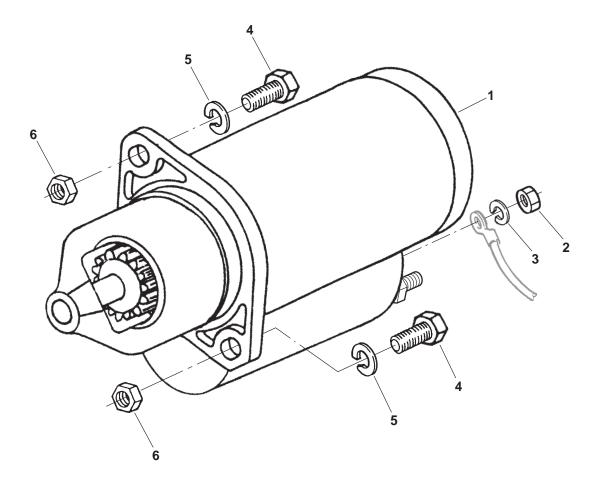
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|------------|----------------------|-------------|---|------------|-------------|-------------|--|
| 1<br>2     | 150–2424<br>150–2425 | 1<br>1      | Rod, Throttle Control<br>Clip, Throttle Control Rod | 5          | 815–0783–01 | 2           | Screw, Pan Head<br>(10–32 x 1.625" Lg) |
| 3<br>4     | 150–2426<br>151–0701 | 1<br>1      | Spring, Throttle Rod<br>Actuator, Governor (K4)     | 6          | 815–0783–02 | 2           | Screw, Pan Head<br>(10–32 x 2.125" Lg) |



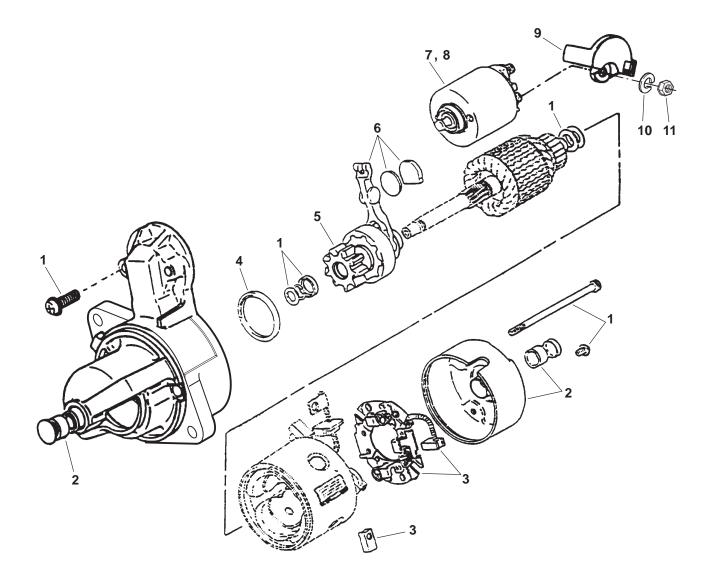


| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION         | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION9          |
|------------|-------------|-------------|-----------------------------|------------|-------------|-------------|-------------------------------|
| 1          | 148-1121-02 | 1           | Bracket, Regulator Mounting | 8          | 505-0101    | 1           | Nipple, Close (3/8")          |
| 2          | 503-2043    | 1           | Hose, Regulator Vent        | 9          | 505–0131    | 1           | Bushing, Reducer              |
| 3          | 821-0010    | 3           | Screw, Lock Head Flange     | 10         | 505-0274    | 1           | Plug, Countersunk Head (1/8") |
|            |             |             | (1/4–20 x 1/2")             | 11         | 148–1020    | 1           | Regulator, Natural Gas/LP     |
| 4          | 503-0685    | 1           | Clamp, Hose                 | 12         | 821-0003    | 2           | Screw, Lock Head (10–32 x 1") |
| 5          | 502-0313    | 1           | Elbow, 90° Hose             | 13         | 502-0238    | 1           | Connector, Hose               |
| 6          | 870-0212    | 2           | Nut, Self Lock (1/4–20)     | 14         | 503–0183    | 2           | Clamp, Hose                   |
| 7          | 307–2880    | 1           | Valve, Fuel Shut–Off        | 15         | 503–2016    | 1           | Hose, Fuel (1/2" x 22" Lg)    |

Starter

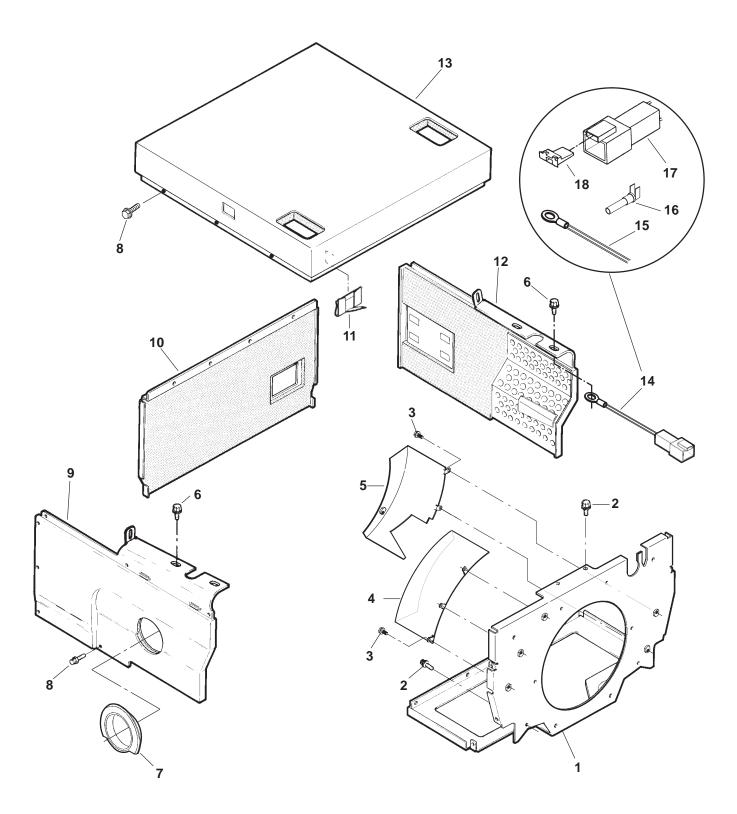


| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                                | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION               |
|------------|-------------|-------------|--|------------|-------------|-------------|-----------------------------------|
| 1          | 191–1949–09 | 1           | Starter (See Separate Page for<br>Components) (B1) | 4          | 800–0054    | 2           | Screw, Cap Hex Head (3/8–16 x 2") |
| 2          | 750–1006    | 1           | Nut, Hex (M8 x 1.25)                               | 5          | 850-0050    | 2           | Washer, Lock (3/8")               |
| 3          | 850-2008    | 1           | Washer, Lock (M8)                                  | 6          | 862-0003    | 2           | Nut, Hex Spring (3/8–16)          |



| 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          | 191–1949–09<br>191–1954 | 1<br>1      | Starter<br>Kit, Hardware (Includes Two  | 5          | 191–1953    | 1           | Kit, Drive (Includes Pinion Gear<br>& Drive Assy)                         |
|            |                         |             | Solenoid Mounting Screws,<br>Two Thru Bolts, Armature<br>Shims, Pinion Stop Collar,                       | 6          | 191–1766    | 1           | Kit, Lever Shift (Includes Lever,<br>Wear Plate, Rubber Plug &<br>Grease) |
|            |                         |             | Retaining Ring & Solenoid<br>Terminal Nuts)   | 7          | 191–1956    | 1           | Kit, Solenoid (Includes Solenoid<br>& Spring Plunger)                     |
| 2          | 191–1931                | 1           | Kit, Bushing (Includes Rear Cap   | 8          | 191–2199–01 |             | Solenoid  |
|            |                         |             | with Bushing & Front Bushing)   | 9          | 191–1947    | 1           | Cap, Solenoid   |
| 3          | 191–1951                | 1           | Kit, Brush (Includes Two  | 10         | 850–2008    | 1           | Washer, Lock (M8)   |
| 4          | 191–1955                | 1           | Negative and Two Positive<br>Brushes & Brush Holder)<br>Kit, Dust Seal (Includes ID & OD<br>Pinion Seals) | 11         | 750–1006    | 1           | Nut, Hex (M8)   |

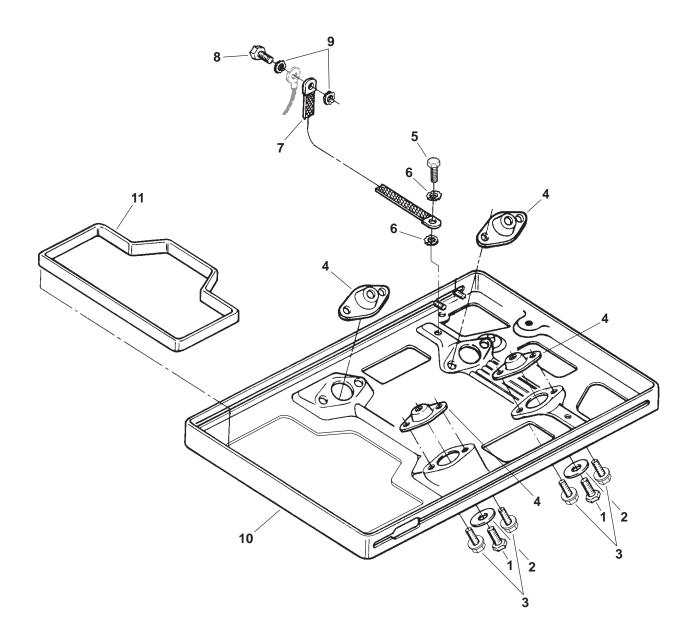
Air Housing



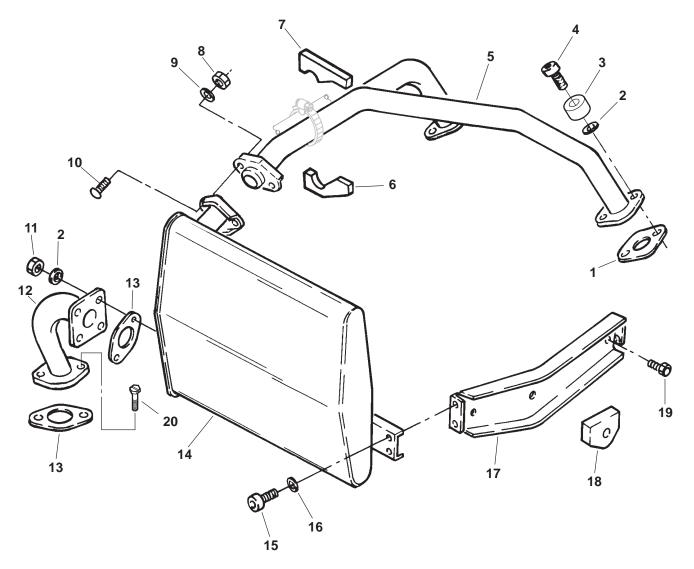
## Air Housing

| 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          | 134–5134–02 | 1           | Backplate   | 12         | 134–4892       | 1           | Cover, Left Side (Includes                                    |
| 2          | 815-0261    | 5           | Screw, Hex Washer Head Cap                        | 12         | 104 4002       | '           | Indented Parts Listed Below)                                  |
| 2          | 010-0201    | 0           | Thread Forming<br>(1/4–20 x 1/2")                 |            | 134–4790–50    | 1           | Cover, Inner Cylinder<br>Head                                 |
| 3          | 821-0002    | 6           | Screw, Lock Head Flange                           |            | 518–0581       | 5           | Nut, Insulation Push On                                       |
|            |             |             | (10–32 x 1/4")                                    |            | 815–0815       | 4           | Screw, Torx Drive   |
| 4          | 134–5139–02 | 1           | Volute, Right Side                                |            |                |             | (1/4–20 x 1/2")   |
| 5          | 134–5138–02 | 1           | Volute, Left Side                                 |            | 518–0574       | 4           | Clip, Access Cover  |
| 6          | 815-0508    | 4           | Screw, Self–Locking Hex                           |            |                |             | (1/4–20)  |
|            |             |             | Washer Head                                       |            | 134–4771–50    | 1           | Cover, Tailpipe Access  |
|            |             |             | (5/16–18 x .75")                                  |            | 134–4776       | 1           | Insulation, Cylinder Head                                     |
| 7          | 122-0829    | 1           | Seal, Oil Filter Air                              |            | 134–4769       | 1           | Insulation, Muffler Box                                       |
| 8          | 815–0815    | 28          | Screw, Hex Washer Head<br>(1/4–20 x 1/2")         | 13         | 134–5160–01    | 1           | Cover, Top (Includes Indented<br>Parts Listed Below and Spark |
| 9          | 134–4891    | 1           | Cover, Right Side (Includes                       |            |                |             | Plug Wire Clip)   |
| Ũ          | 101 1001    | •           | Indented Parts Listed Below)                      |            | 134–4935       | 1           | Insulation  |
|            | 134-4792-50 | 1           | Cover, Inner Cylinder Head                        |            | 134–4805       | 1           | Insulation, Right Hand  |
|            | 134-4765    | 1           | Insulation, Cylinder Head                         |            | 134–4806       | 1           | Insulation, Left Hand   |
|            | 134-4768    | 1           | Insulation, Muffler Box                           |            | 134–4807       | 1           | Insulation, Front   |
|            | 518-0581    | 5           | Nut, Insulation Push–On                           |            | 518–0581       | 3           | Nut, Insulation Push–On                                       |
| 10         | 134–5166    | 1           | Panel, Front (Includes                            | 14         | 309–0654       | 1           | Sensor, Engine Temperature                                    |
|            |             |             | Indented Parts Listed Below)                      |            |                |             | (Includes Parts Marked *)                                     |
|            | 134–4994    | 1           | Insulation  | 15         | 305–0957       | 1           | Thermister  |
|            | 134-4771-50 | 1           | Cover, Tailpipe Access                            | 16         | 323–1491       | 2           | Terminal, Pin   |
|            | 518-0574    | 4           | Clip, Access Cover                                | 17         | 323–1505       | 1           | Connector, Receptacle   |
|            |             |             | (1/4–20)  | 18         | 323–1501       | 1           | Wedge, Receptacle   |
|            | 815–0815    | 4           | Screw, Torx Drive Access<br>Cover (1/4–20 x 1/2") |            |                |             |   |
|            | 518-0581    | 5           | Nut, Insulation Push On                           | * —        | Parts Included | in Engin    | e Temperature Sensor.   |
| 11         | 518–0618    | 1           | Clip, Spark Plug Wire                             |            |                |             |   |

Drip Pan

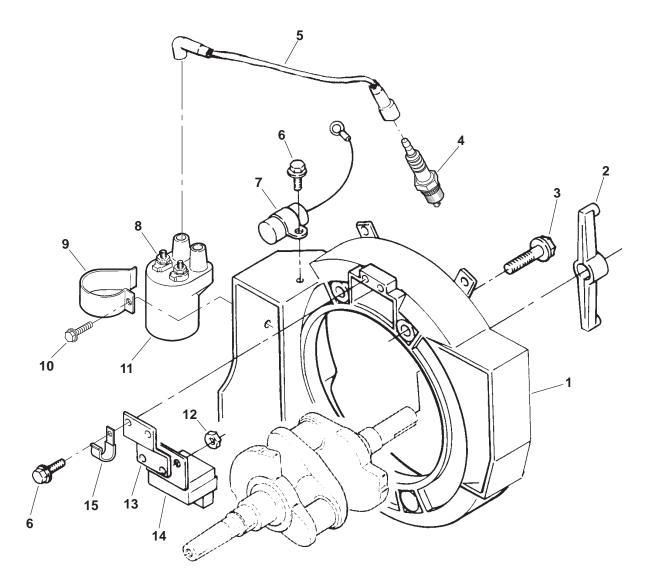


| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                                | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION          |
|------------|-------------|-------------|--|------------|-------------|-------------|------------------------------|
| 1          | 815–0657    | 4           | Screw, Hex Head Cap                                | 6          | 856-0008    | 2           | Washer, EIT Lock (5/16")     |
|            |             |             | Thread Forming                                     | 7          | 337–2434    | 1           | Strap, Ground                |
|            |             |             | (3/8–16 x 2–3/4")                                  | 8          | 815–0610    | 1           | Screw, Hex Head Cap          |
| 2          | 526-0325    | 4           | Washer, Flat (13/32)                               |            |             |             | Thread Forming (1/4–20 x 1") |
| 3          | 821-0010    | 8           | Screw, Self–Locking Hex                            | 9          | 856-0006    | 2           | Washer, EIT Lock (1/4")      |
|            |             |             | Flange Head (1/4-20 x 1/2")                        | 10         | 403-4132-02 | 1           | Pan, Drip                    |
| 4          | 402-0624    | 4           | Isolator, Vibration                                | 11         | 134–4745    | 1           | Seal, Air Outlet             |
| 5          | 815–0236    | 1           | Screw, Hex Head Thread<br>Cutting (5/16–18 x 5/8") |            |             |             |                              |



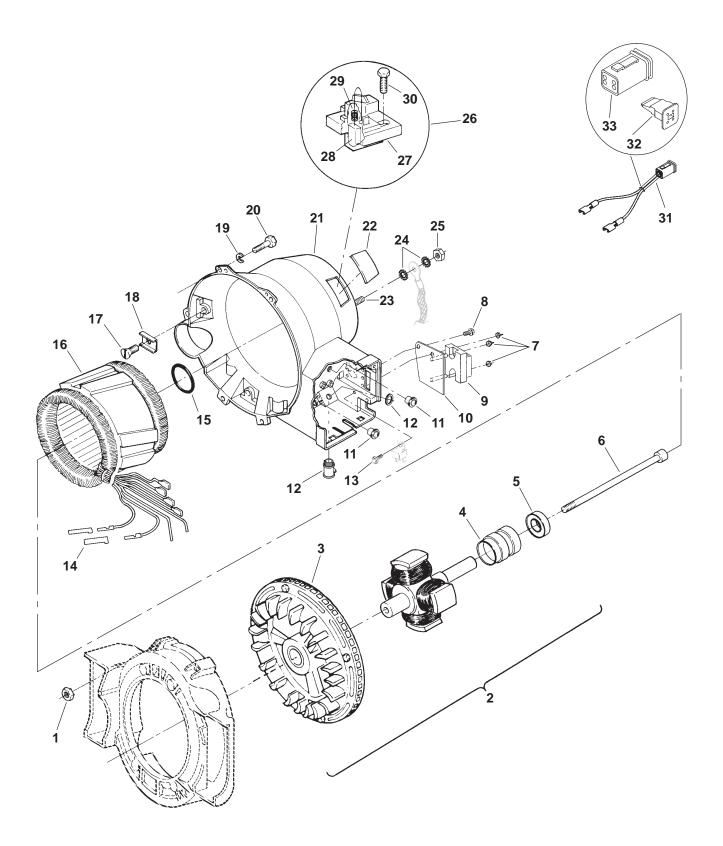
| REF | PART        | QTY  | PART                           | REF | PART     | QTY  | PART                        |
|-----|-------------|------|--------------------------------|-----|----------|------|-----------------------------|
| NO. | NO.         | USED | DESCRIPTION                    | NO. | NO.      | USED | DESCRIPTION                 |
| 1   | 154–2747    | 2    | Gasket, Exhaust Manifold       |     |          |      | Steel                       |
| 2   | 740-1006    | 6    | Washer, Flat (M8)              | 12  | 155–2428 | 1    | Tube, Exhaust               |
| 3   | 154–2870    | 4    | Spacer, Washer                 | 13  | 154–2765 | 2    | Gasket, Muffler (LP Use 1)  |
| 4   | 802-0057-01 | 4    | Screw, Socket Head             | 14  | 155–3156 | 1    | Muffler                     |
|     |             |      | (5/16–18 x 1")                 | 15  | 815–0337 | 4    | Screw, Hex Washer Head Cap  |
| 5   | 154–3024    | 1    | Manifold, Exhaust              |     |          |      | Thread Forming              |
| 6   | 134-4932-02 | 1    | Insulation, Exhaust Manifold   |     |          |      | (1/4–20 x 3/4")             |
| 7   | 134-4928-02 | 1    | Insulation, Exhaust Manifold   | 16  | 526-0018 | 4    | Washer, Flat (1/4")         |
| 8   | 870–0048    | 2    | Nut, Self–Locking              | 17  | 155–2558 | 2    | Support, Muffler            |
|     |             |      | (5/16–18 x 1–1/2)              | 18  | 155–2415 | 2    | Seal, Muffler Support       |
| 9   | 526-0122    | 2    | Washer, Flat (Special) (5/16") | 19  | 815–0890 | 4    | Screw, Hex Head Lock Flange |
| 10  | 816-0140    | 2    | Bolt, Carriage                 |     |          |      | Thread Form (3/8–16 x 1)    |
|     |             |      | (5/16–18 x 1–1/4")             | 20  | 800-0730 | 2    | Screw, Hex Head             |
| 11  | 862-0014    | 2    | Nut, Hex (5/16–18) Stainless   |     |          |      |                             |
|     |             |      |                                |     |          |      |                             |

#### **Generator Adapter**



| 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          | 231-0382-01 | 1           | Adapter, Generator         | 8          |             |             | Nut, Hex Flange               |
| 2          | 166-0842-01 | 1           | Rotor, Ignition            |            | 166–0770    | 2           | M4 – Positive Terminal        |
| 3          | 800-0575-01 | 4           | Screw, Hex Flange Head Cap |            | 166–0771    | 2           | M5 – Negative Terminal        |
|            |             |             | (3/8–16 x 1")              | 9          | 166–0747    | 1           | Bracket, Ignition Coil        |
| 4          | 167-0272    | 2           | Plug, Spark (É1, E2)       | 10         | 815-0290    | 1           | Screw, Self–Locking Hex       |
| 5          |             |             | Cable, Spark Plug          |            |             |             | Washer Head Thread            |
|            | 167–1615–01 | 1           | 9"                         |            |             |             | Forming (1/4–20 x 5/8")       |
|            | 167-1615-05 | 1           | 23"                        | 11         | 166–0820    | 1           | Coil, Ignition (T1)           |
| 6          | 815-0770    | 3           | Screw, Self–Locking Hex    | 12         | 870–0328    | 2           | Nut, Self–Locking (#10–32)    |
|            |             |             | Washer Head Thread         | 13         | 166–0794    | 1           | Bracket, Ignition Control     |
|            |             |             | Forming (#10–32 x 1/2")    | 14         | 166–0821    | 1           | Module, Ignition Control (S3) |
| 7          | 312-0256    | 1           | Capacitor (C2)             | 15         | 332–3198    | 1           | Clip, Wire                    |

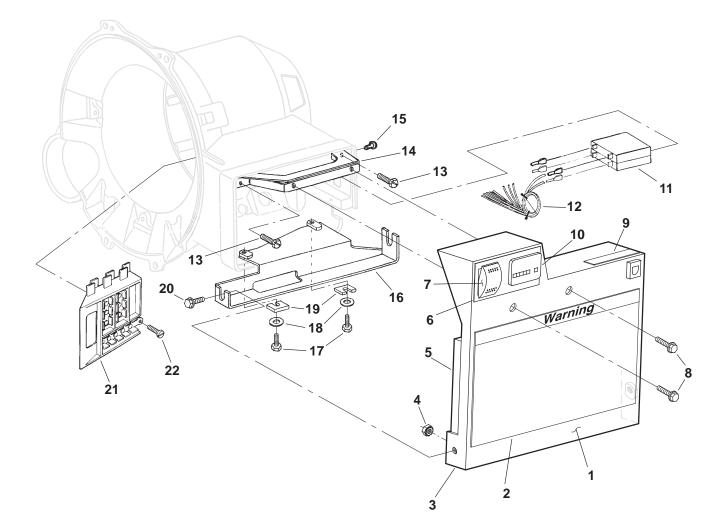
Generator



#### Generator

| REF |             | QTY  | PART                           | REF   | PART           | QTY    | PART                      |
|-----|-------------|------|--------------------------------|-------|----------------|--------|---------------------------|
| NO. | NO.         | USED | DESCRIPTION                    | NO.   | NO.            | USED   | DESCRIPTION               |
| 1   | 862-0003    | 4    | Nut, Hex (3/8–16)              | 20    |                |        | Screw                     |
| 2   | 201-3525-01 | 1    | Rotor, Generator (Includes     |       | 800-0052       | 4      | Hex Head Cap              |
|     |             |      | Parts Marked *)                |       |                |        | (3/8–16 x 1–1/2")         |
| 3   | 205–0241    | 1    | *Fan, Generator (Includes Ring | ~ ~ ~ | 815-0908       | 4      | Thread Cutting            |
|     |             |      | Gear)                          | 21    | 220-4532-03    | 1      | Housing, Generator Stator |
| 4   | 204–0134    | 1    | *Ring, Collector               | 22    | 212–1284       | 1      | Cover, Brush Block Access |
| 5   | 510-0099    | 1    | *Bearing, Ball                 | 23    | 332–3328       | 1      | Stud, Grounding           |
| 6   | 802–1038    | 1    | Screw, Socket                  |       |                |        | (5/16–18 x 1–1/2")        |
|     |             |      | (7/16–14 x 10–7/32")           | 24    | 856-0008       | 2      | Washer, EIT Lock (.32)    |
| 7   | 870–0131    | 3    | Nut, ET Hex (10–32)            | 25    | 870–0257       | 1      | Nut, Self Lock (5/16–18)  |
| 8   | 815–0652    | 1    | Screw, Hex Head Slot           | 26    | 212–1285       | 1      | Block, Generator Brush    |
|     |             |      | (10–32 x 1/2")                 |       |                |        | (Includes Parts Marked #) |
| 9   | 305–0784    | 1    | Charger, Battery (VR2)         | 27    | 212–1286       | 1      | #Block, Brush             |
| 10  | 305-0943-02 | 1    | Bracket, Battery Charger       | 28    | 214–0103       | 2      | #Brush, Generator         |
| 11  | 508-0272    | 2    | Grommet                        | 29    | 212-1276-03    | 2      | #Spring, Generator Brush  |
| 12  | 331–0536    | 2    | Connector, Conduit             | 30    | 815–0788       | 2      | Screw, Pan Head Torx      |
| 13  | 821-0005    | 1    | Screw, Lock Head Flange        |       |                |        | (#10–32 x 7/8")           |
|     |             |      | (10–32 x 1/2")                 | 31    | 338–3441       | 1      | Harness, Genset (Includes |
| 14  | 332–0819    | 2    | Housing, Push On Connector     |       |                |        | Wedge and Housing)        |
| 15  | 509-0196    | 1    | O'Ring                         | 32    | 323–1548       | 1      | Wedge, Plug (4 Pin)       |
| 16  |             |      | Stator, Generator              | 33    | 323–1546       | 1      | Housing, Plug (4 Pin)     |
|     | 220-4135-09 | 1    | 60Hz                           |       |                |        |                           |
|     | 220-4135-10 | 1    | 50Hz                           |       |                |        | _                         |
| 17  | 815-0290    | 3    | Screw, Countersunk Torx        |       | Parts Included |        |                           |
|     |             |      | Drive Thread Forming           | # —   | Parts Included | in Gen | erator Brush Block.       |
|     |             |      | (3/8–16 x 1")                  |       |                |        |                           |
| 18  | 232-2955-02 | 3    | Clamp, Stator                  |       |                |        |                           |
| 19  | 850-0050    | 4    | Washer, Spring Lock (3/8")     |       |                |        |                           |
|     |             |      | ,                              |       |                |        |                           |

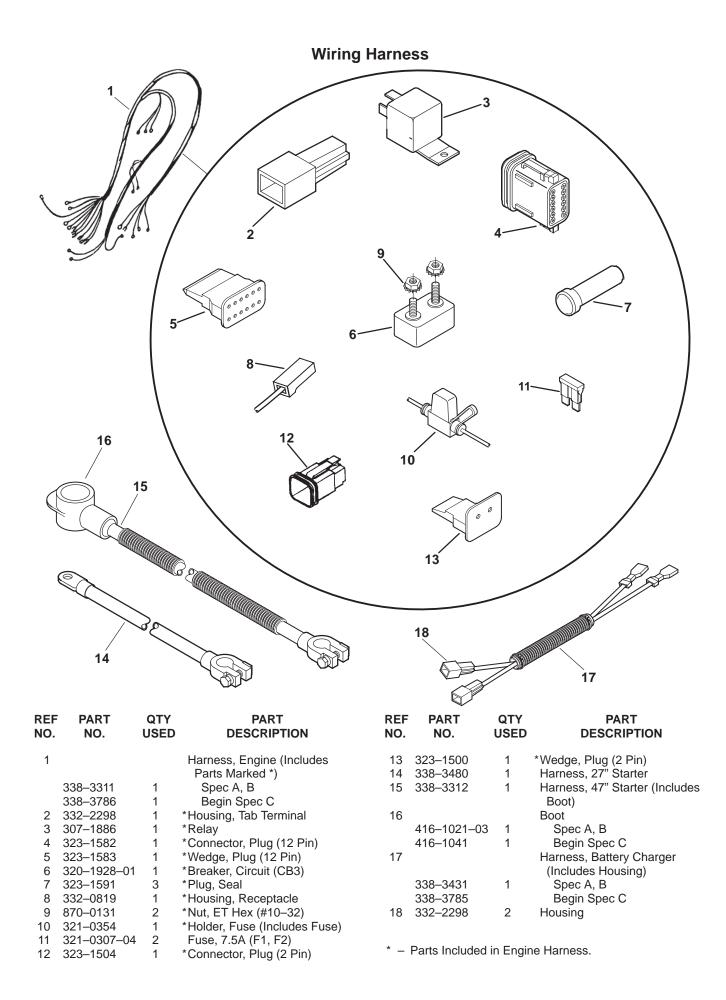
## Control



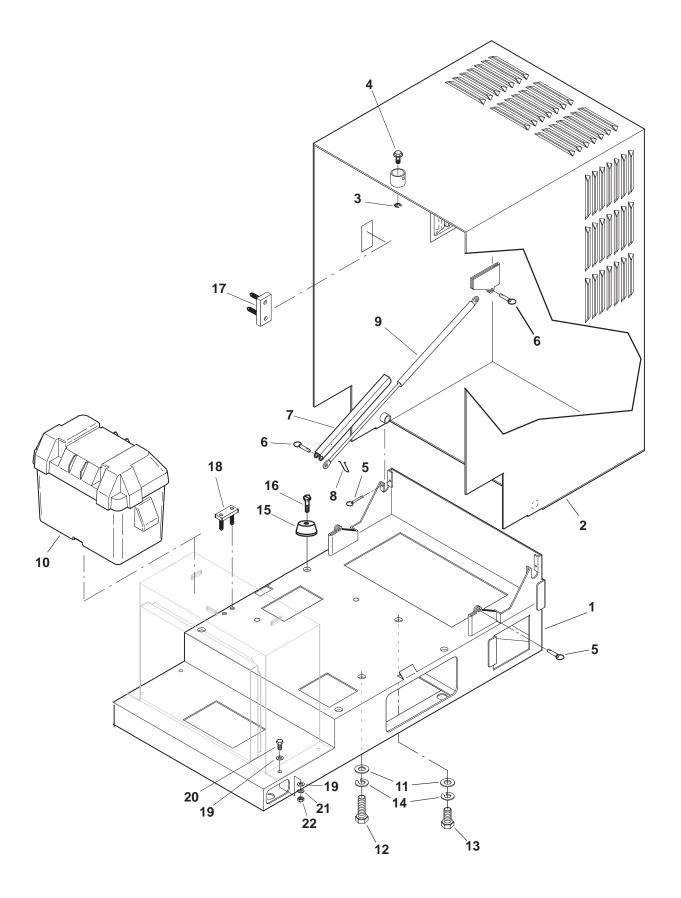
| REF<br>NO. | PART<br>NO.          | QTY<br>USED | PART<br>DESCRIPTION                               | REF<br>NO. | PA<br>N      |
|------------|----------------------|-------------|---|------------|--------------|
| 1          | 300-4741-01          | 1           | Panel, Control (Includes Parts<br>Marked *)       | 14<br>15   | 319–<br>815– |
| 2          | 098–7374             | 1           | *Label, Warning                                   |            |              |
| 3          | 319-3025-02          | 1           | *Cover, Control Box                               | 16         | 319–         |
| 4          | 870–1183             | 8           | *Nut, ET (6–32)                                   |            |              |
| 5          | 300–4930             | 1           | *Board, Control                                   | 17         | 821-         |
| 6          | 098–7375             | 1           | *Label, Switch                                    |            |              |
| 7          | 308–1076             | 1           | *Switch, Rocker (S1)                              | 18         | 526-         |
| 8          | 815–0815             | 2           | Screw, Hex Washer Head<br>(1/4–20 x 1/2")         | 19<br>20   | 319–<br>821– |
| 9          | 098–7376             | 1           | *Label, Circuit Breaker                           |            |              |
| 10         | 302-2002             | 1           | *Meter, Hour (TT)                                 | 21         |              |
| 11<br>12   | 320-1548-03          | 1           | Breaker, Circuit (CB1, CB2)<br>Harness, AC Output |            | 332–<br>332– |
|            | 338–3534<br>338–3776 | 1<br>1      | Spec A, B<br>Begin Spec C                         | 22         | 815–         |
| 13         | 815–0661             | 2           | Screw, Hex Head Slot<br>(10–32 x 1/2")            | * _        | Parts        |

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                                |
|------------|-------------|-------------|--|
| 14         | 319-3026-02 | 1           | Bracket, Top Control Mounting                      |
| 15         | 815–0550–01 | 4           | Screw, ET Pan Head Cross<br>Recessed (6–32 x 3/8") |
| 16         | 319–3073–02 | 1           | Bracket, Bottom Control<br>Mounting                |
| 17         | 821–0015    | 2           | Screw, Lock Head Flange<br>(1/4–20 x 3/4")         |
| 18         | 526-0018    | 2           | Washer, Flat (1/4")                                |
| 19         | 319-3074-02 | 2           | Plate, Cover                                       |
| 20         | 821-0009    | 2           | Screw, Hex Washer Head<br>(1/4–20 x 3/8")          |
| 21         |             |             | Block, Terminal (TB1)                              |
|            | 332-2859-01 | 1           | 3–Terminal   |
|            | 332-2859-02 | 1           | 2–Terminal   |
| 22         | 815-0691-01 | 1           | Screw, Pan Head (10–32 x 3/8")                     |

- Parts Included in Control Panel.



## Housing



## Housing

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION                        |
|------------|-------------|-------------|--|
| 1          | 402-0741-02 | 1           | Base, Housing                              |
| 2          | 405-6309-02 | 1           | Housing                                    |
| 3          | 518-0566    | 1           | Clip, Circular                             |
| 4          | 800-0744-02 | 1           | Bolt, Hex Head Security                    |
|            |             |             | (1/2–13)                                   |
| 5          | 406-0841-01 | 2           | Pin, Snap                                  |
| 6          | 406-0841-02 | 4           | Pin, Snap                                  |
| 7          | 402-0713-02 | 2           | Bracket, Locking                           |
| 8          | 402-0714    | 2           | Spring, Clip                               |
| 9          | 406-0840    | 2           | Spring, Gas                                |
| 10         | 416–1034    | 1           | Box, Battery (Includes Hold<br>Down Strap) |
| 11         | 526-0029    | 4           | Washer, Flat (3/8")                        |
| 12         | 800–0051    | 2           | Screw, Hex Head Cap<br>(3/8–16 x 1.25)     |
| 13         | 800–0050    | 2           | Screw, Hex Head Cap<br>(3/8–16 x 1")       |

| REF<br>NO. | PART<br>NO.   | QTY<br>USED | PART<br>DESCRIPTION  |
|------------|---------------|-------------|----------------------|
| 14         | 850-0050      | 4           | Washer, Lock (3/8")  |
| 15         | 402-0740      | 4           | Guide, Base          |
| 16         | 821-6001-06   | 4           | Screw, Hex Head Sems |
| 17         | 307-2908      | 1           | Switch, Actuator     |
| 18         | 307–2907      | 1           | Switch, Magnet       |
|            | Switchgear He | ousing M    | ounting Hardware:    |
| 19         | 526-0029      | 8           | Washer, Flat (3/8")  |
| 20         | 800-0050      | 4           | Screw, Hex Head Cap  |
|            |               |             | (3/8–16 x 1")        |
| 21         | 850-0050      | 4           | Washer, Lock (3/8")  |
| 22         | 862-0003      | 4           | Nut (3/8–16)         |

NOTE: See Parts Catalog 913–0202 for Transfer Switch Information.

#### Labels, Paint, Thread Sealant, Kits

| REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION             | REF<br>NO. | PART<br>NO. | QTY<br>USED | PART<br>DESCRIPTION             |
|------------|-------------|-------------|---------------------------------|------------|-------------|-------------|---------------------------------|
|            | 98–6586–02  | 1           | Label, Battery Negative         |            | 120–0161    | 1           | Kit, Oil Pump Gasket            |
|            | 98–6387     | 1           | Label, Caution                  |            |             |             | Kit, Gasket                     |
|            | 98–6894     | 2           | Label, Caution                  |            | 168–0190    | 1           | Valve Grind                     |
|            | 98–6195–01  | 1           | Label, Caution                  |            | 168–0193    | 1           | Engine                          |
|            | 98–7110     | 1           | Label, Caution (Unit Clearance) | :          | 518–0347    | 1           | Loctite, Bottle (250cc)         |
|            | 98–7334     | 1           | Label, Caution (No Step)        | :          | 525–0394    | 1           | Paint, Enamel Touch–Up –        |
|            | 98–7335     | 1           | Label, Caution (Lifting)        |            |             |             | Black (Flat) 16 oz. Pressurized |
|            | 98–7336     | 1           | Label, Dual Fuel                |            |             |             | Can                             |
|            | 98–7370     | 1           | Label, Stripe                   | :          | 518–0452    | 1           | Sealant, Thread (50cc Bottle)   |
|            | 98–6139–08  | 1           | Label, Warning                  |            |             |             |                                 |
|            | 00 6027     | 4           | Lobol Worning                   |            |             |             |                                 |

 98–6837
 1
 Label, Warning

 98–5390
 1
 Label, Warning

30

#### **Numerical Index**

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