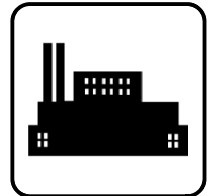


# Service Parts

Engine



Engine Model:

## General Motors 5.0/5.7 L Powertrain EPA Certified Engines

Generator Models:

48/60RCL  
50/60REZG(B)  
50/60ERES(B)  
80REZGB/D  
80RZGD  
80ERESB/D  
100REZGB/D  
100RZGD  
100ERESB/D

# KOHLER®

# Power Systems



TP-6731 6/14c

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# Introduction

This manual lists service replacement parts for General Motors 5.0L and 5.7L engines.

Information in this publication represents data available at the time of print. Kohler Co. reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

This manual includes the following main sections:

**Table of Contents.** Lists the sections of the manual.

**Introduction (and other information sections).** Contains introductory material about part numbers, illustrations, and hardware.

**Index.** Lists the engine models and groups.

**Group Parts Lists.** List the part numbers of parts in the groups.

## Numbering System Significance

This manual uses the following numbering systems:

**Model.** The product identification number located on the nameplate. Engines break down into groups.

**Group Number.** A unique number representing a parts group needed to assemble a generator set function. For example, Group 1-2 is the Starter group.

**Part Number.** The part number identifies an individual assembly, subassembly, component, or accessory kit.

## Illustrations

Illustrations (or exploded-view drawings) best representing the widest range of variations accompany most groups in this manual. Illustrations do not depict all details and may not show all parts. Do not substitute illustrations for assembly or disassembly.

## How to Find Part Numbers

Use the following steps to locate a service replacement part.

1. Locate the nameplate to **identify the model number**.
2. **Turn to the Model Index.** The first column identifies the groups of parts that make up the engine. The headings identify the models.
3. **Find the group variation number** at the intersection of the group row and the model column. Note the variation number.
4. **Page forward to locate the group and variation** identified above or find the appropriate page in the Table of Contents.
5. **Find the part on the illustration** and note the item number of the part or **find the part description in the parts list**.

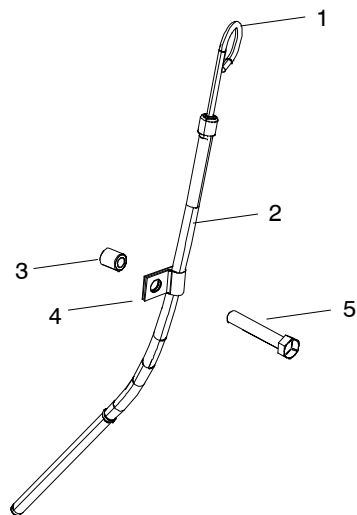
# Model Index

| Group Description                                  | Variation |                        |                        |          |
|----------------------------------------------------|-----------|------------------------|------------------------|----------|
|                                                    | Model     |                        |                        |          |
|                                                    | 48RCL     | 50REZG(B)<br>50ERES(B) | 60REZG(B)<br>60ERES(B) | 60RCL    |
| 1-1: Dipstick                                      | 38050057  | 38050057               | 38050057               | 38050057 |
| 1-2: Starter                                       | 38050322  | 38050322               | 38050322               | 38050322 |
| 1-3: Fan Spacer                                    | -         | 38040622               | 38040622               | -        |
| 1-4: Lifting Eye, Idler, Belt                      | 38050356  | 38050332               | 38050332               | 38050356 |
| 1-5: Flywheel Adapter                              | 38030121  | 38030121               | 38030121               | 38030121 |
| 1-6: Flywheel/Housing                              | 38030247  | 38030247               | 38030262               | 38030262 |
| 1-7: Exhaust Manifold                              | 38050801  | 38050801               | 38050801               | 38050801 |
| 1-8: Exhaust Pipe                                  | -         | 38050809               | 38050809               | -        |
| 1-9: Thermostat                                    | 38050634  | 38050634               | 38050634               | 38050634 |
| 1-10: High Voltage Switch (HVS) Coil & Distributor | 38050326  | 38050326               | 38050326               | 38050326 |
| 1-11: Electrical                                   | 38050325  | 38050325               | 38050325               | 38050325 |
| 1-12: Ignition System                              | 38050327  | 38050327               | 38050327               | 38050327 |
| 1-13.1: Fuel System                                | 38050441  | 38050441               | 38050441               | 38050441 |
| 1-13.2: Fuel System, EPR/Mixer                     | 38050445  | 38050445               | 38050445               | 38050445 |
| 1-13.3: Fuel System, Throttle Body                 | 38050449  | 38050449               | 38050449               | 38050449 |
| 1-14: Crank Damper/Pulley Assembly                 | 38051406  | 38051406               | 38051406               | 38051406 |
| 1-15: Alternator                                   | 38050308  | 38050308               | 38050308               | 38050308 |
| 1-18: Oil Filter                                   | 38050060  | 38050060               | 38050060               | 38050060 |
| 1-19: Intake Manifold                              | 38050812  | 38050812               | 38050812               | 38050812 |
| 1-22: Water Pump Hardware                          | 38900649  | 38900649               | 38900649               | 38900649 |
| 2-1: Engine Block/Lower End                        | 5.0 L     | 5.0 L                  | 5.7 L                  | 5.7 L    |
| 2-2: Engine Head/Upper End                         | 5.0 L     | 5.0 L                  | 5.7 L                  | 5.7 L    |

| Group Description                                  | Variation                        |                                     |
|----------------------------------------------------|----------------------------------|-------------------------------------|
|                                                    | Model                            |                                     |
|                                                    | 80REZGB/D<br>80ERESB/D<br>80RZGD | 100REZGB/D<br>100ERESB/D<br>100RZGD |
| 1-1: Dress Kit                                     | 38050040                         | 38050040                            |
| 1-2: Starter                                       | 38050328                         | 38050328                            |
| 1-3: Fan Spacer                                    | 38050647                         | 38050647                            |
| 1-4: Lifting Eye, Idler, Belt                      | 38051414                         | 38051414                            |
| 1-5: Flywheel Adapter                              | 38030121                         | 38030121                            |
| 1-6: Flywheel/Housing                              | 38030262                         | 38030262                            |
| 1-7: Exhaust Manifold                              | 38050833                         | 38050833                            |
| 1-8: Exhaust Pipe                                  | 38050834                         | 38050834                            |
| 1-9: Thermostat                                    | 38050634                         | 38050634                            |
| 1-10: High Voltage Switch (HVS) Coil & Distributor | 38050326                         | 38050326                            |
| 1-11: Electrical                                   | 38050337                         | 38050337                            |
| 1-12: Ignition System                              | 38050329                         | 38050329                            |
| 1-13.1: Fuel System                                | 38050442                         | 38050442                            |
| 1-13.2: Fuel System, EPR/Mixer                     | 38050445                         | 38050445                            |
| 1-15: Alternator                                   | 38050308                         | 38050308                            |
| 1-18.1: Oil Filter                                 | 38050064                         | 38050064                            |
| 1-18.1: Oil Cooler Hardware                        | 38050066                         | 38050066                            |
| 1-19: Intake Manifold                              | 38050843                         | 38050843                            |
| 1-20.1: Turbocharger                               | 38050835                         | 38050835                            |
| 1-20.2: Turbocharger Hardware                      | 38050849                         | -                                   |
| 1-21: Freeze Plug                                  | 38050850                         | 38050850                            |
| 1-22: Water Pump Hardware                          | 38900649                         | 38900649                            |
| 2-1: Engine Block/Lower End                        | 5.7 L                            | 5.7 L                               |
| 2-2: Engine Head/Upper End                         | 5.7 L                            | 5.7 L                               |

# 1-1: Dipstick

Variation: 38050057



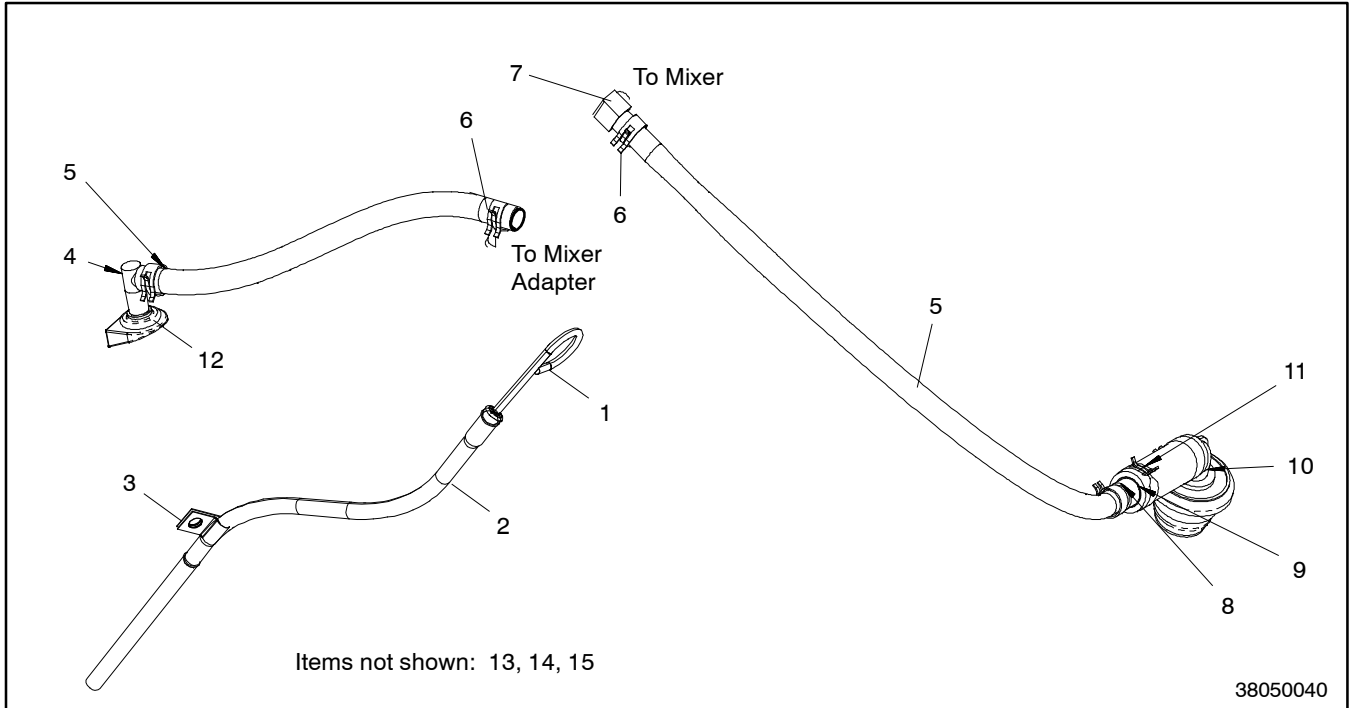
Items not shown: 6, 7

38050057

| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM75142  | Dipstick                       | 1    |
| 2    | GM75147  | Tube, Dipstick                 | 1    |
| 3    | GM16182  | Spacer, mount, 8 mm            | 1    |
| 4    | GM75221  | Clamp, Dipstick                | 1    |
| 5    | #        | Bolt, 1/4-20 x 2 Hx Hd Grade 5 | 1    |
| 6    | GM28960  | Washer, flat SAE               | 1    |
| 7    | GM24188  | Washer, lock 1/4 in.           | 1    |

# 1-1: Dress Kit

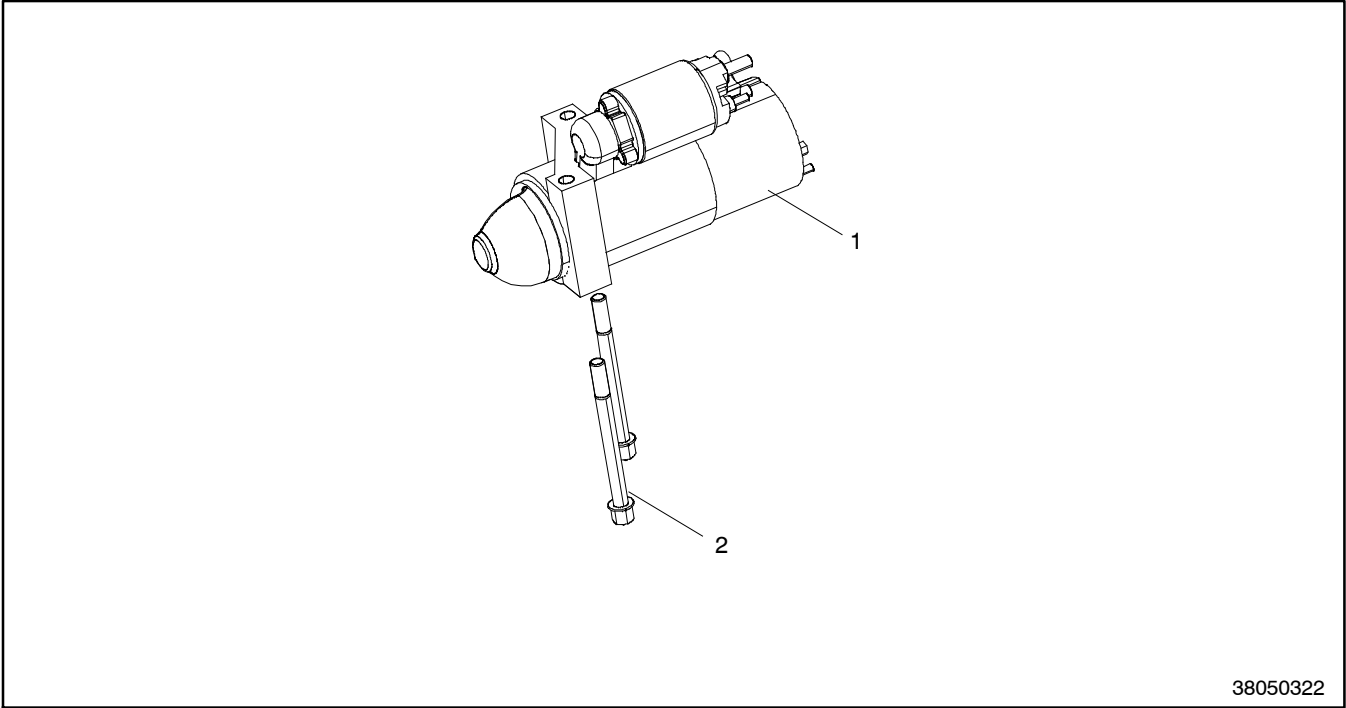
Variation: 38050040



| Item | Part No. | Description                    | Qty. | Item | Part No. | Description                      | Qty. |
|------|----------|--------------------------------|------|------|----------|----------------------------------|------|
| 1    | GM85012  | Tube, Dipstick                 | 1    | 9    | GM69492  | Tube, 0.625 ID x 3 in.           | 3    |
| 2    | GM75142  | Dipstick                       | 1    | 10   | GM16157  | Elbow, PCV system 5/8" 45 deg.   | 1    |
| 3    | GM75221  | Clamp, Dipstick                | 1    | 11   | GM75131  | Clamp, Hose 7/8"Od               | 2    |
| 4    | GM16159  | Valve, PCV                     | 1    | 12   | GM16143  | Grommet, PCV valve               | 2    |
| 5    | GM16158  | Hose, PCV, 3/8" (37 in.)       | 1    | 13   | GM85028  | O-ring, Dash 108 Buna-N          | 1    |
| 6    | GM69488  | Clamp, hose 3/8 (spring type)  | 4    | 14   | GM85035  | Spacer, 13/32 ID x3/4 OD         | 1    |
| 7    | GM75148  | Ftg, 1/8NPT X 3/8Hs 45 Deg.    | 1    | 15   | GM72314  | Plug, pipe 3/8 in. int. Manifold | 1    |
| 8    | GM69490  | Adapter, barb 5/8 to 3/8 nylon | 1    |      |          |                                  |      |

# 1-2: Starter

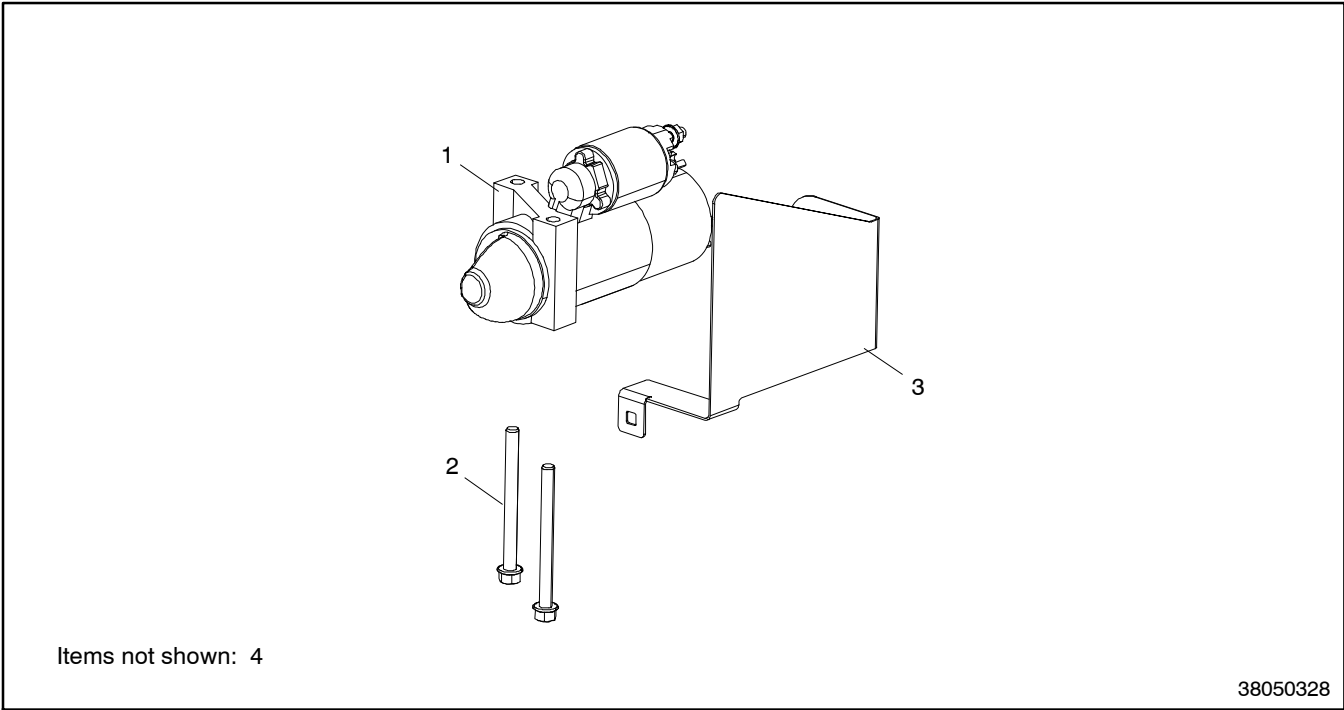
Variation: 38050322



| Item | Part No.           | Description                  | Qty. |
|------|--------------------|------------------------------|------|
| 1    | <del>GM16178</del> | Starter <span>GM93490</span> | 1    |
| 2    | GM16190            | Bolt, starter                | 2    |

# 1-2: Starter

Variation: 38050328

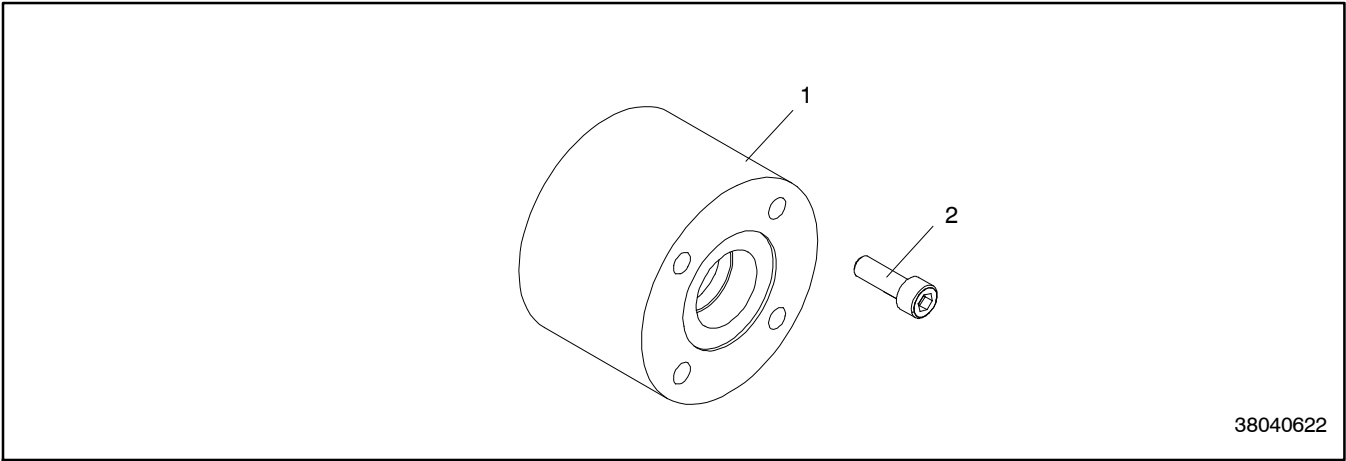


| Item | Part No. | Description       | Qty. |
|------|----------|-------------------|------|
| 1    | GM16178  | Starter GM93490   | 1    |
| 2    | GM16190  | Bolt, starter, 4" | 2    |
| 3    | GM85030  | Shield, Starter   | 1    |
| 4    | GM25977  | Nut, 10-24        | 2    |



# 1-3: Fan Spacer

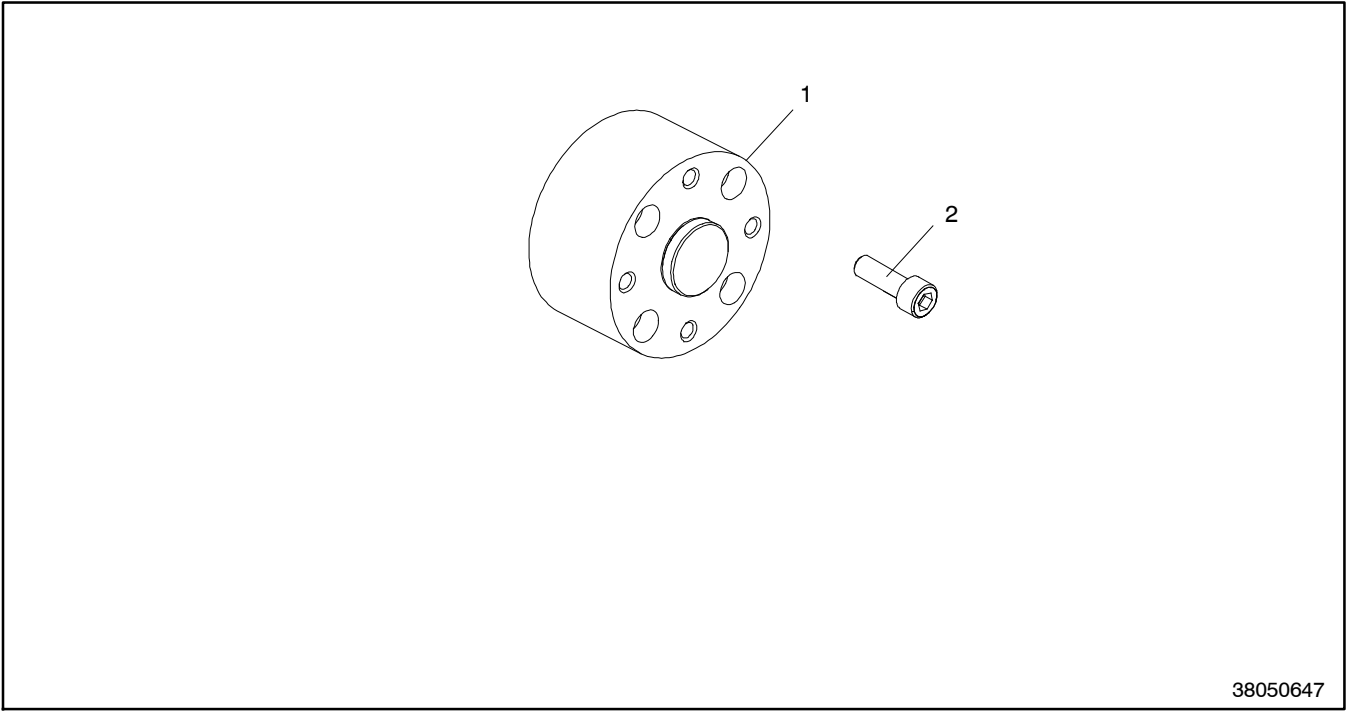
Variation: 38040622



38040622

| Item | Part No. | Description | Qty. |
|------|----------|-------------|------|
| 1    | GM51969  | Spacer, fan | 1    |
| 2    | GM51970  | Bolt, Fan   | 4    |

Variation: 38050647

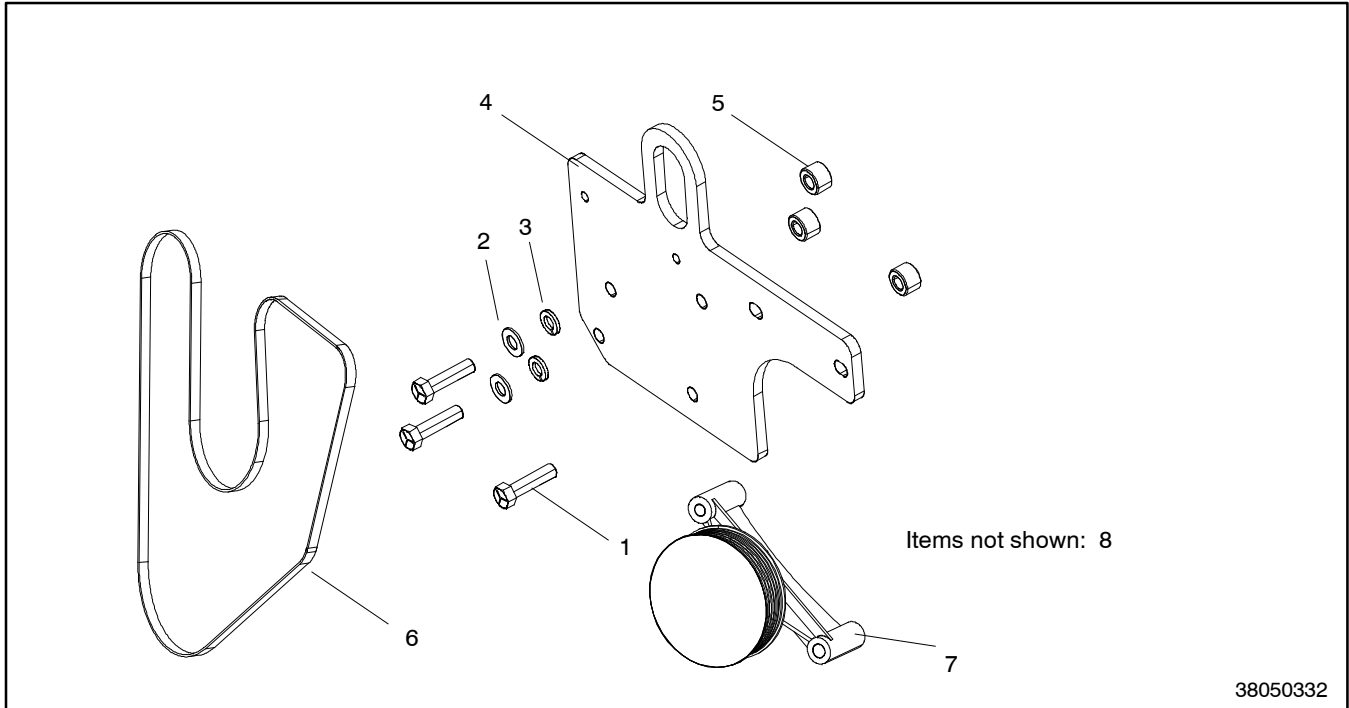


38050647

| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM85016  | Spacer, fan                    | 1    |
| 2    | GM85048  | Bolt, M8-1.25 x 55 Socket Head | 4    |

# 1-4: Lifting Eye, Idler, Belt

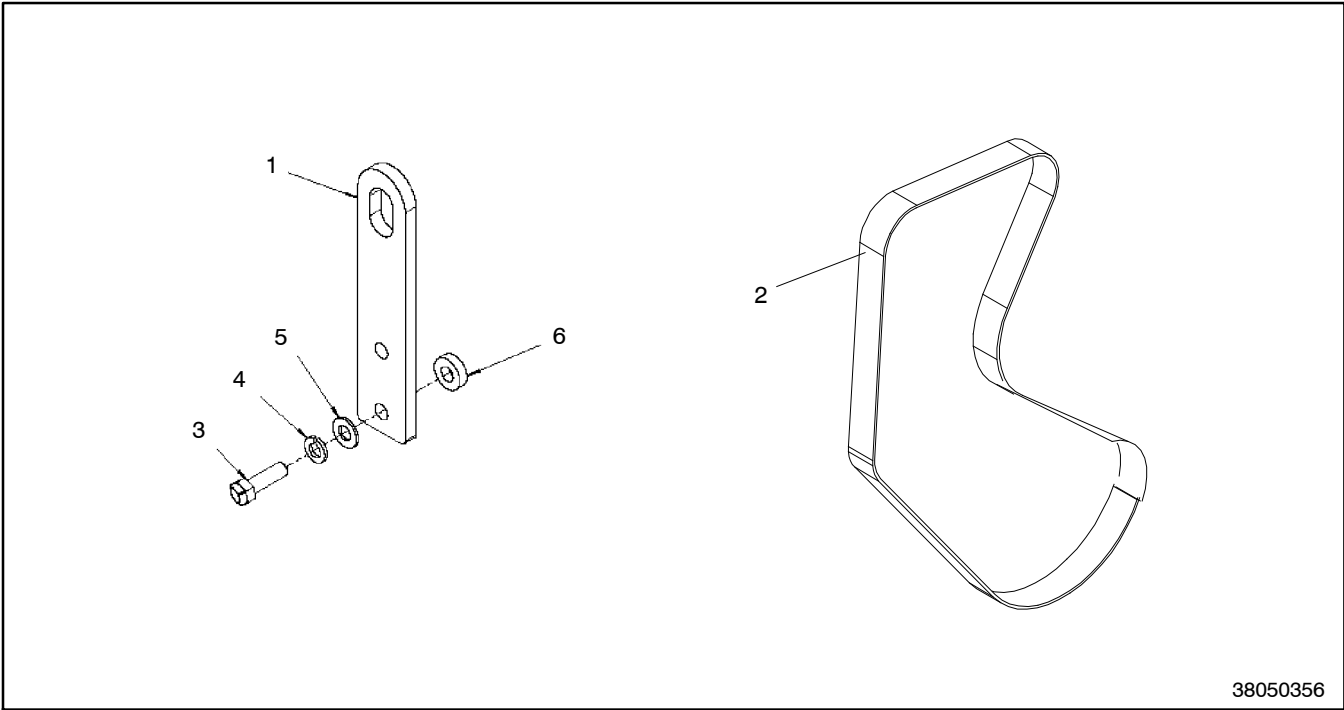
Variation: 38050332



| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | #        | Bolt, 3/8-16 x 1 1/2 HxHd Gr 5 | 3    |
| 2    | GM69516  | Washer, 3/8                    | 4    |
| 3    | GM24190  | Washer, flat 3/8 SAE           | 4    |
| 4    | GM16172  | Bracket, exhaust/lifting eye   | 1    |
| 5    | GM16173  | Spacer, .75 OD x .38 ID x .50  | 3    |
| 6    | GM16132  | Belt, fan standard             | 1    |
| 7    | GM16123  | Bracket, pulley                | 1    |
| 8    | GM25974  | Nut, 3/8-16                    | 1    |

# 1-4: Lifting Eye, Idler, Belt

Variation: 38050356

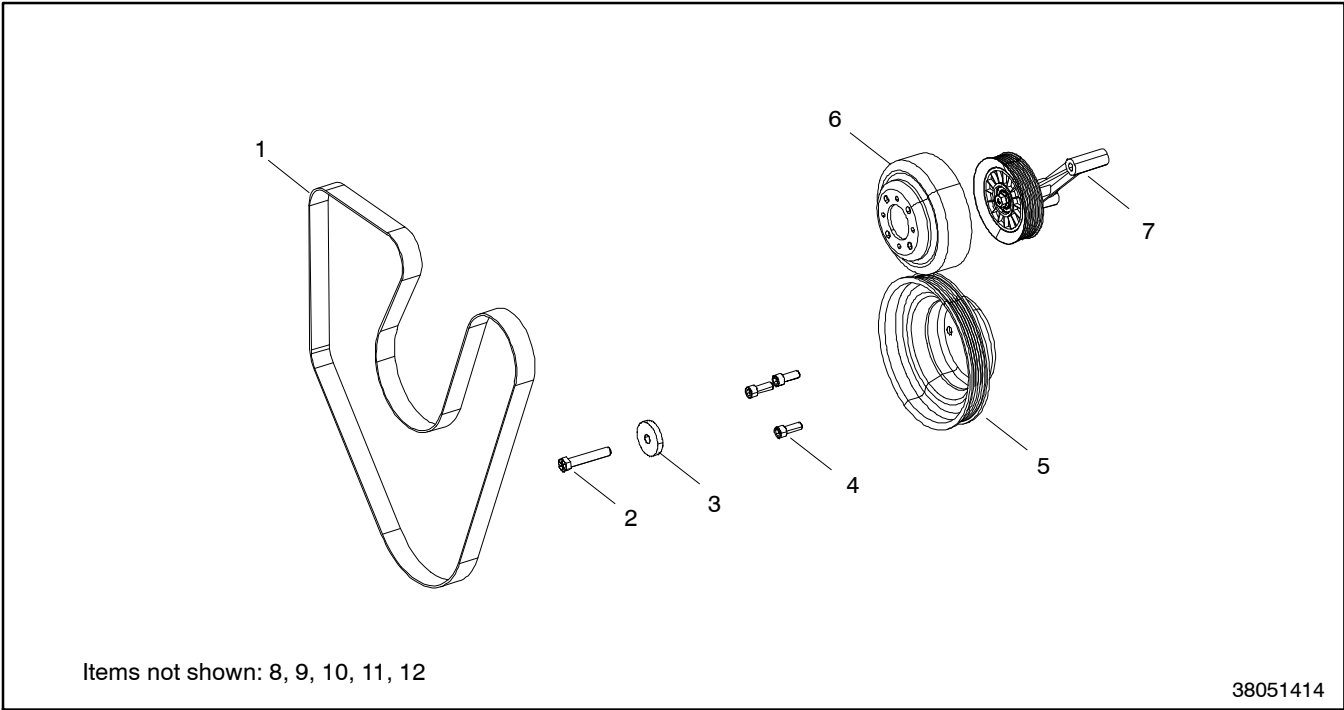


38050356

| Item | Part No. | Description                  | Qty. |
|------|----------|------------------------------|------|
| 2    | GM85017  | Belt, Alt                    | 1    |
| 1    | GM85013  | Lifting Eye, Rear            | 1    |
| 3    | #        | Bolt                         | 1    |
| 4    | GM69516  | Washer, 3/8                  | 1    |
| 5    | GM24190  | Washer, Flat 3/8 SAE         | 1    |
| 6    | GM16225  | Washer, Flat 3/8" (Hardened) | 1    |

# 1-4: Lifting Eye, Idler, Belt

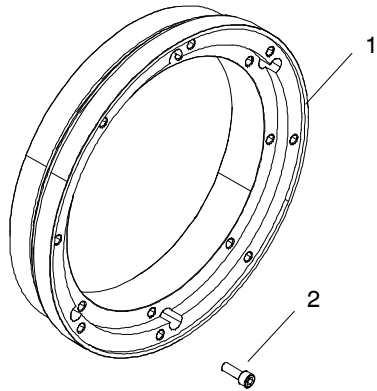
Variation: 38051414



| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM85032  | Belt, Alt G-Rib .813" x 73.25" | 1    |
| 2    | #        | Bolt, 7/16-20 x 2 1/2 Grade 8  | 1    |
| 3    | GM16130  | Washer, Crank Shaft Pulley     | 3    |
| 4    | #        | Bolt, 3/8-24 x 1 SktHd Grade 5 | 1    |
| 5    | GM16131  | Pulley, CrnkSft/FAN            | 1    |
| 6    | GM85018  | Pulley, Water Pump w/o Lip     | 1    |
| 7    | GM16123  | Bracket, Pulley                | 1    |
| 8    | GM25974  | Nut, 3/8-16 Flange Serrated    | 1    |
| 9    | #        | Bolt, 3/8-16 x 4 1/2 HxHd Gr 5 | 2    |
| 10   | GM69516  | Washer, Lock 3/8               | 2    |
| 11   | GM24190  | Washer, Flat 3/8 SAE           | 2    |
| 12   | #        | Washer, Lock 7/16 External     | 1    |

# 1-5: Flywheel Adapter

Variation: 38030121

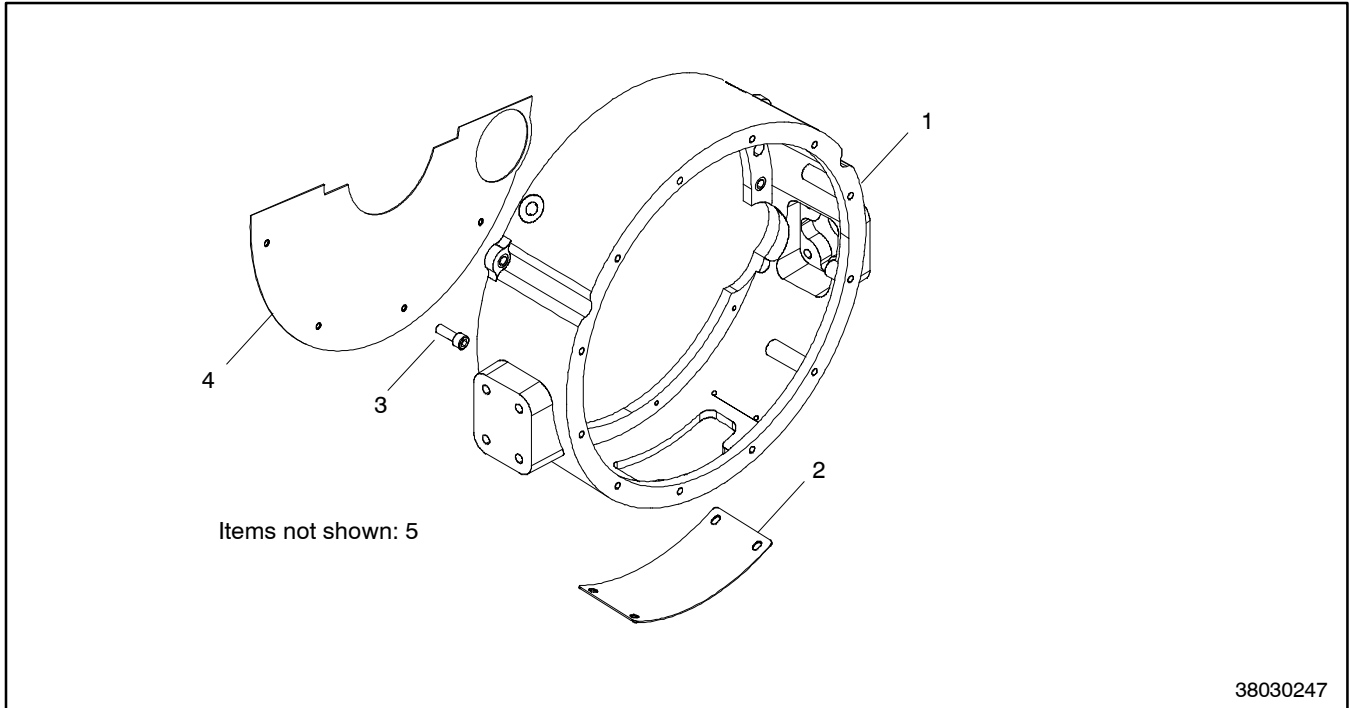


38030121

| Item | Part No. | Description                 | Qty. |
|------|----------|-----------------------------|------|
| 1    | GM75115  | Adapter                     | 1    |
| 2    | #        | Bolt, 3/8-16 x 2 Skt Hd Gr8 | 4    |

## 1-6: Flywheel/Housing

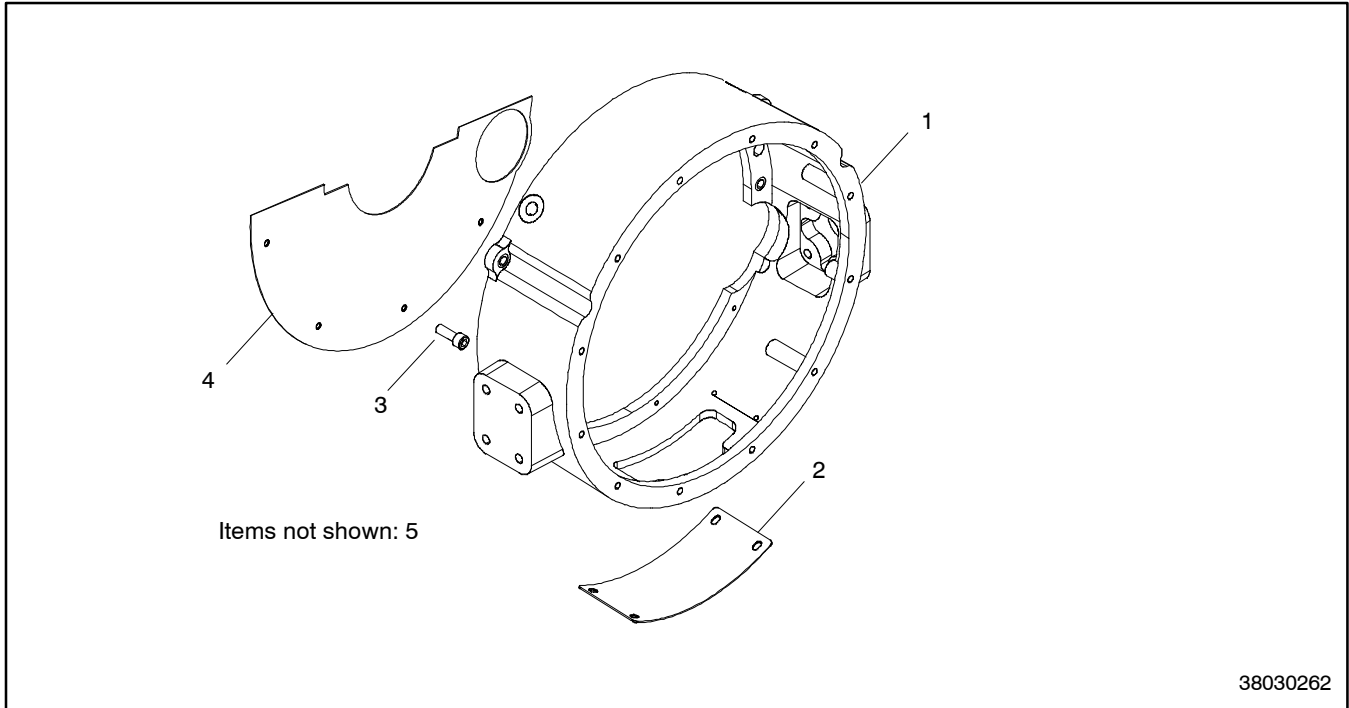
Variation: 38030247



| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM75116  | Housing, SAE3                  | 1    |
| 2    | GM75114  | Plate, Cover F/W               | 1    |
| 3    | GM75196  | Bolt, 3/8-16 x 1 1/4 SktHd Gr5 | 6    |
| 4    | GM16189  | Plate, starter                 | 1    |
| 5    | #        | Bolt, 1/4-20x1/2 Flange Hd Ser | 8    |

## 1-6: Flywheel/Housing

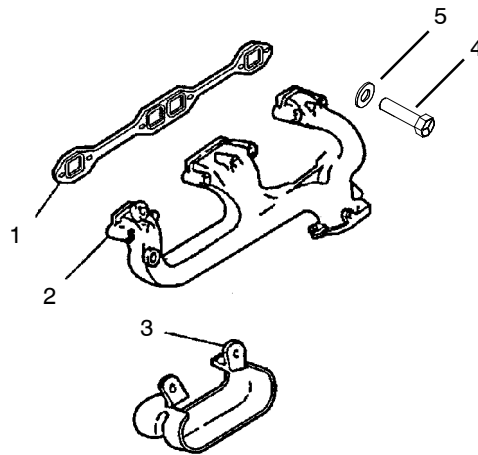
Variation: 38030262



| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM75116  | Housing, SAE3                  | 1    |
| 2    | GM75114  | Plate, Cover F/W               | 1    |
| 3    | GM75196  | Bolt, 3/8-16 x 1 1/4 SktHd Gr5 | 6    |
| 4    | GM16189  | Plate, starter                 | 1    |
| 5    | #        | Bolt, 1/4-20x1/2 Flange Hd Ser | 8    |

# 1-7: Exhaust Manifold

Variation: 38050801



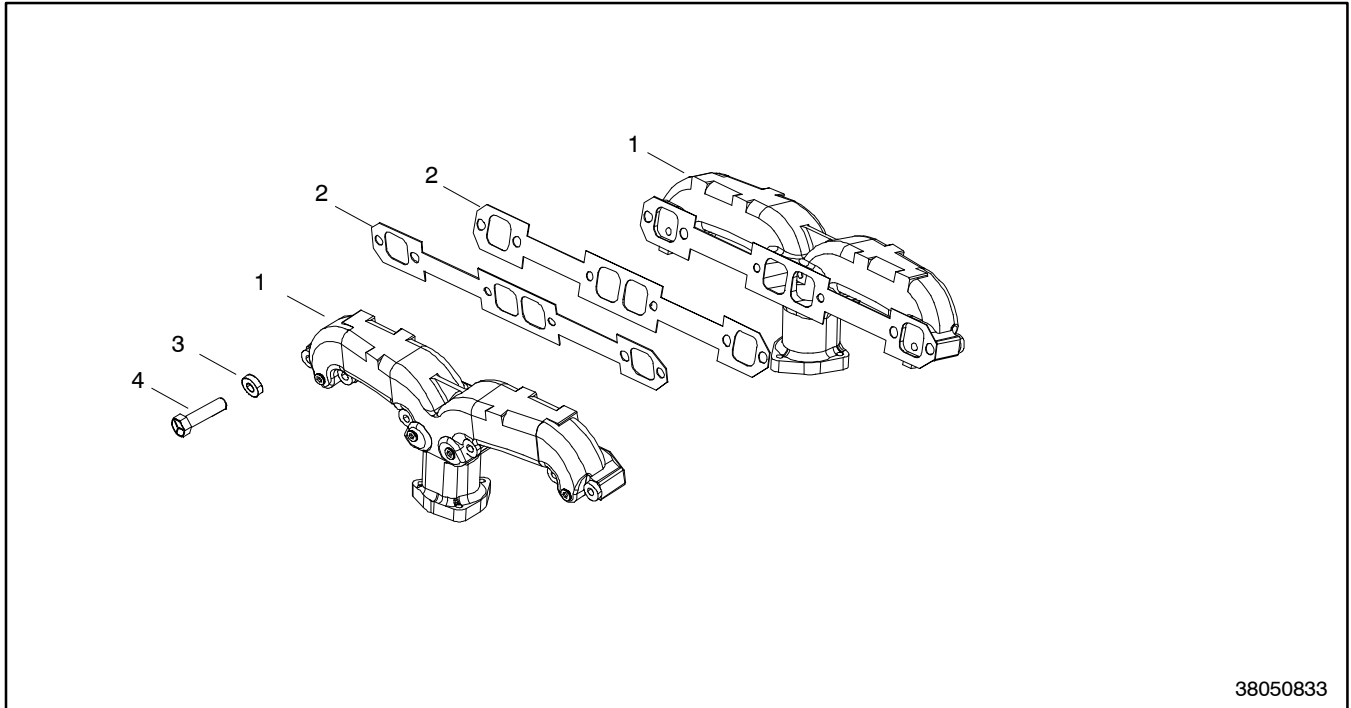
38050801

| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM16199  | Gasket, manifold exhaust       | 2    |
| 2    | GM16216  | Manifold, exhaust left side    | 2    |
| 3    | GM16218  | Shield, heat                   | 4    |
| 4    | #        | Bolt, 3/8-16 X 2 1/4 HxHd Gr 5 | 12   |
| 5    | GM16225  | Washer, flat 3/8" (hardened)   | 12   |



# 1-7: Exhaust Manifold

Variation: 38050833

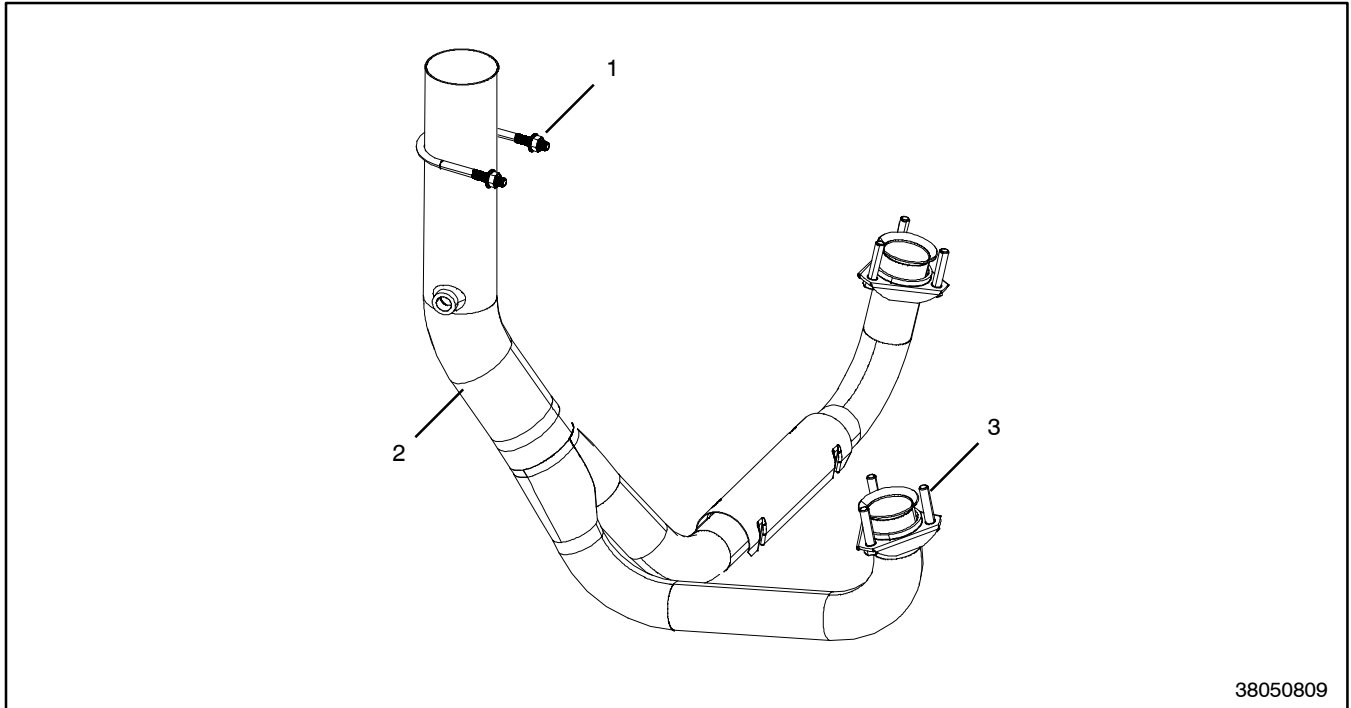


38050833

| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM85047  | Manifold, Exhaust              | 2    |
| 2    | GM85034  | Gasket Set, Exh Manifold       | 2    |
| 3    | GM16225  | Washer, flat 3/8" (hardened)   | 12   |
| 4    | #        | Bolt, 3/8-16 x 2 1/2 HxHd Gr 5 | 7    |
| 4    | #        | Bolt, 3/8-16 x 3 1/4 HxHd Gr.5 | 5    |

# 1-8: Exhaust Pipe

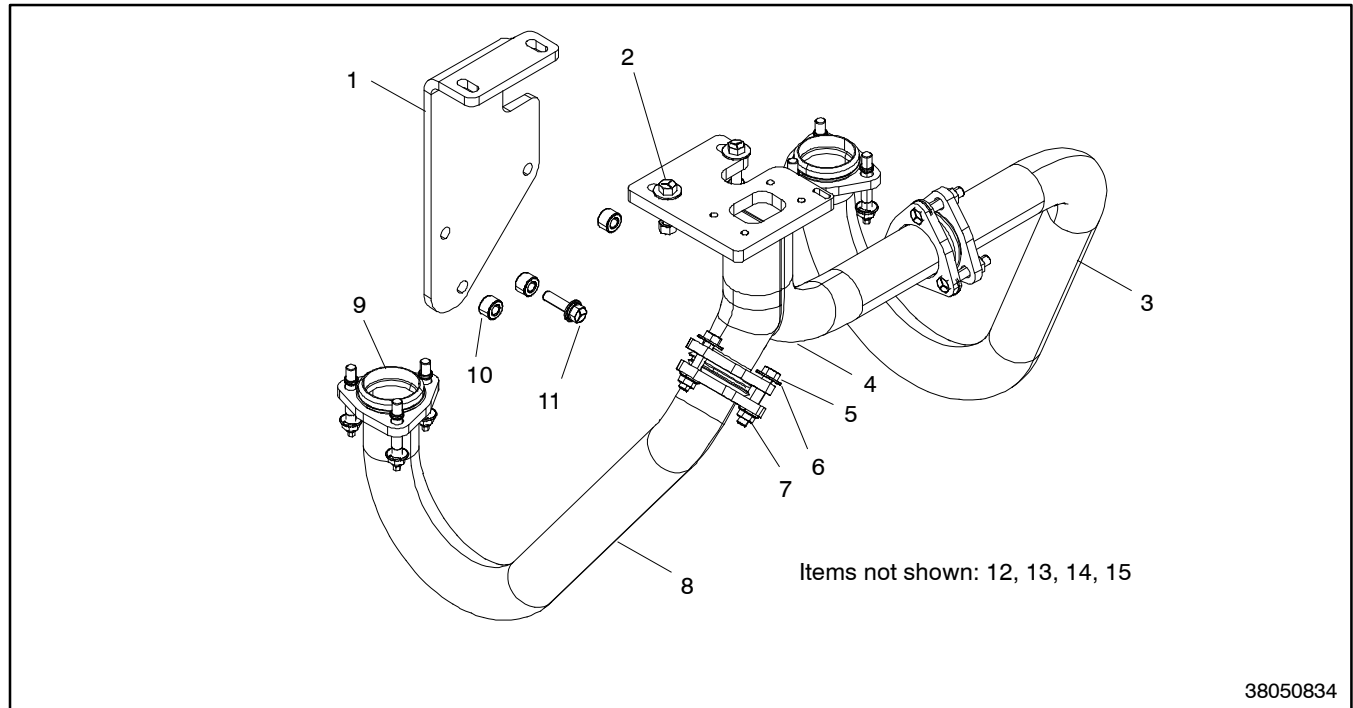
Variation: 38050809



| Item | Part No. | Description                   | Qty. |
|------|----------|-------------------------------|------|
| 1    | GM16145  | Clamp, muffler 3"             | 1    |
| 2    | GM16214  | Pipe, Y w/heat shield         | 1    |
| 3    | #        | Bolt, 3/8-16 x 1 3/4 HxHd Gr5 | 6    |

# 1-8: Exhaust Pipe

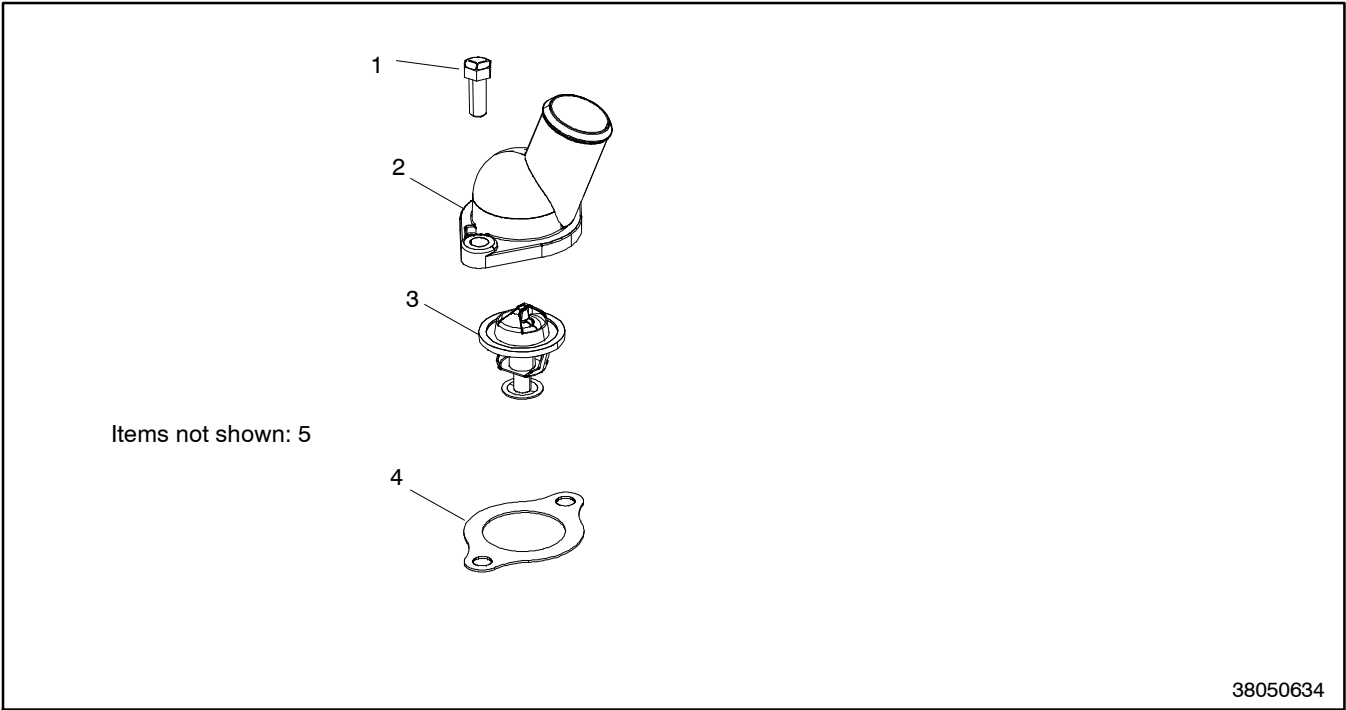
Variation: 38050834



| Item | Part No. | Description                     | Qty. |
|------|----------|---------------------------------|------|
| 1    | GM85039  | Bracket, Turbo Mounting         | 1    |
| 2    | #        | Bolt, 3/8-16 x 1 3/4 HxHd Gr5   | 2    |
| 3    | GM85037  | Pipe, Exhaust Right Side        | 1    |
| 4    | GM85042  | Pipe, JP Series "Y"             | 1    |
| 5    | GM16224  | Bolt, 3/8-16 x 2 hex head gr. 5 | 6    |
| 6    | GM69514  | Washer, 3/8 flat                | 2    |
| 7    | GM25974  | Nut, 3/8-16                     | 8    |
| 8    | GM85036  | Pipe, Exhaust Left Side         | 1    |
| 9    | GM85033  | Gasket, Exhaust                 | 4    |
| 10   | GM16173  | Spacer, .75 OD x .38 ID x .50   | 3    |
| 11   | #        | Bolt, 3/8-16 x 1 1/2 HxHd Gr 5  | 6    |
| 12   | GM85015  | Clamp, Muffler 2"               | 2    |
| 13   | GM85038  | Shield, Heat Turbo              | 1    |
| 14   | #        | Washer, Flat 3/8 Hardened Gr19  | 12   |
| 15   | #        | Bolt, 3/8-16 X 1 1/2 Flange Hd  | 3    |

# 1-9: Thermostat

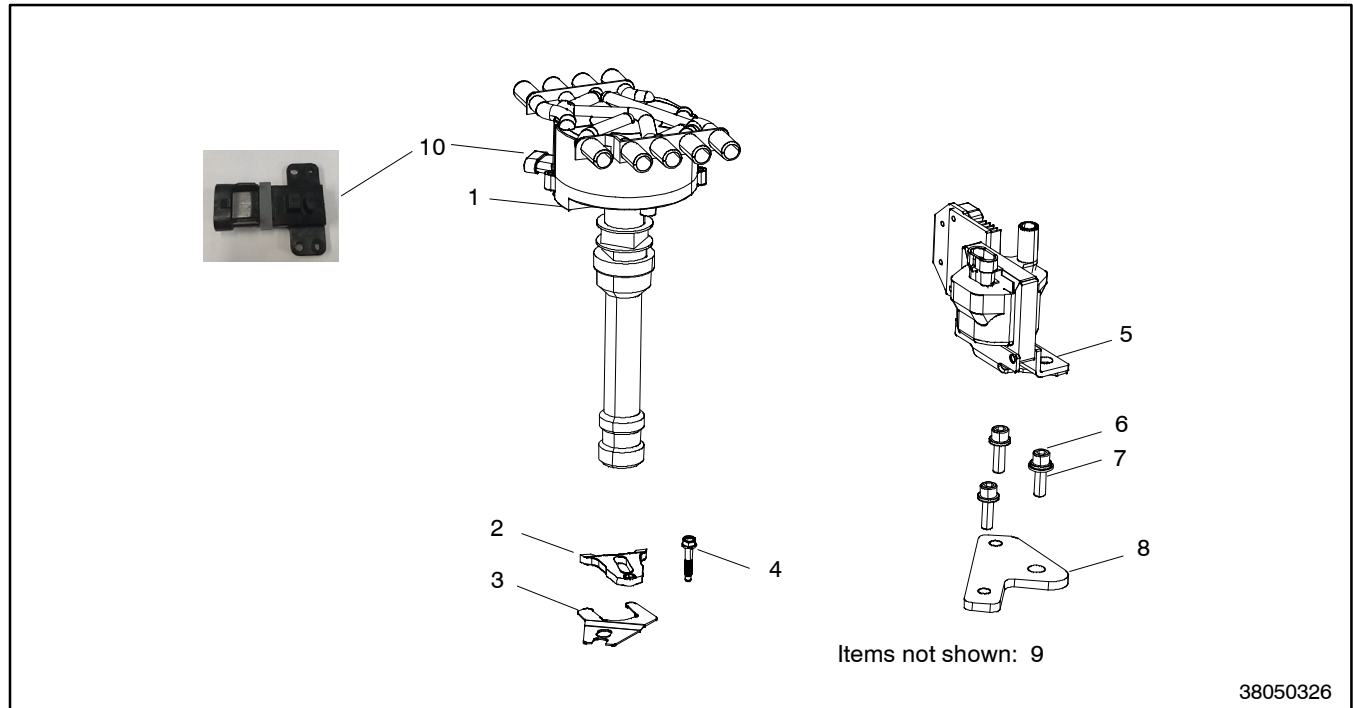
Variation:38050634



| Item | Part No.  | Description                                  | Qty. |
|------|-----------|----------------------------------------------|------|
| 1    | #         | Bolt, 3/8-16x1 Flange Hd Ser                 | 2    |
| 2    | GM16120   | Cover, thermostat                            | 1    |
| 3    | GM79585-S | Thermostat, Service Kit<br>(includes gasket) | 1    |
| 4    | GM16536   | Gasket, thermostat hsg                       | 1    |
| 5    | GM75210   | Cap, Waterpump                               | 1    |

# 1-10: High Voltage Switch (HVS)

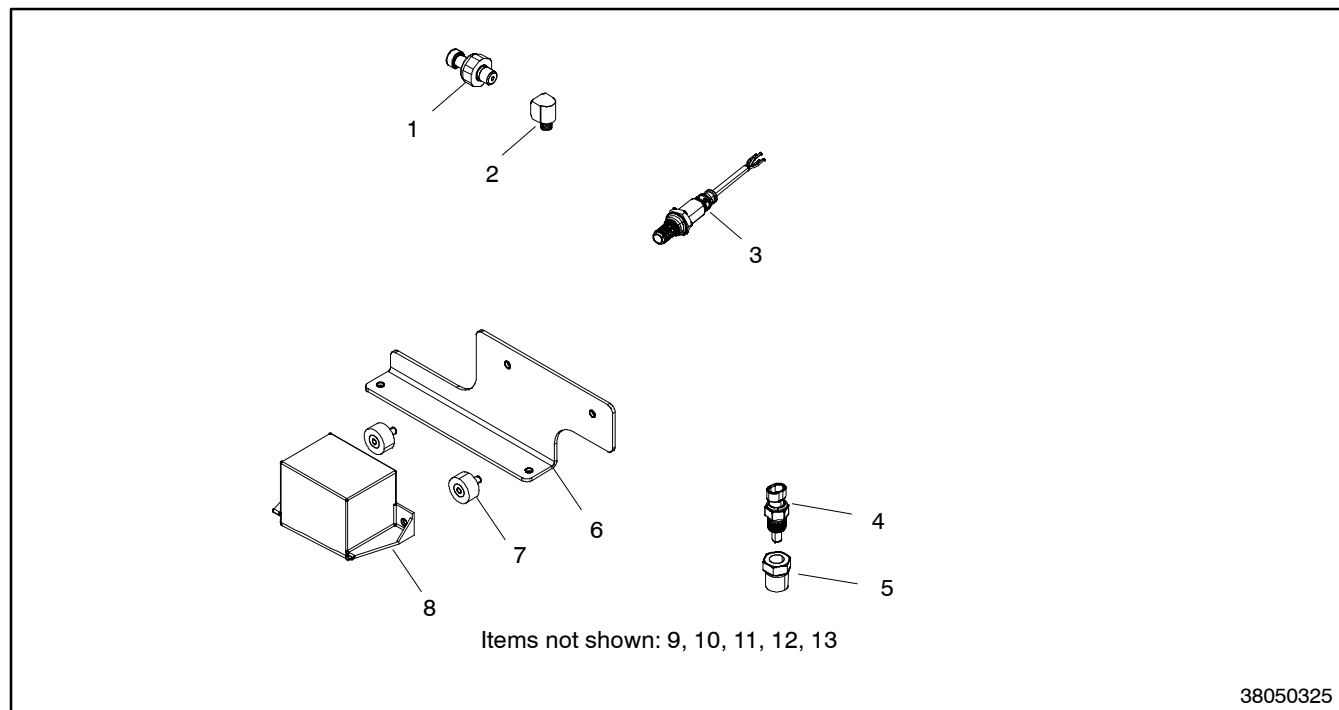
Variation: 38050326



| Item | Part No. | Description                                  | Qty. |
|------|----------|----------------------------------------------|------|
| 1    | GM75155  | Distributor HVS<br>(includes item 10)        | 1    |
| 2    | GM16191  | Clamp, distributor                           | 1    |
| 3    | GM75161  | Yoke                                         | 1    |
| 4    | GM16193  | Bolt, distributor                            | 1    |
| 5    | GM75164  | Coil, Ignition                               | 1    |
| 6    | #        | Bolt, 5/16-18 x 1 Skt Hd                     | 2    |
| 6    | GM69517  | Bolt, 5/16-18 x 3/4 skt hd, gr. 5            | 1    |
| 7    | GM61733  | Washer                                       | 3    |
| 8    | GM75170  | Bracket, Ignition                            | 1    |
| 9    | GM75195  | Washer, Flat 5/16 SAE                        | 1    |
| 10   | GM90538  | Camshaft Position Sensor<br>(part of item 1) | 1    |

# 1-11: Electrical

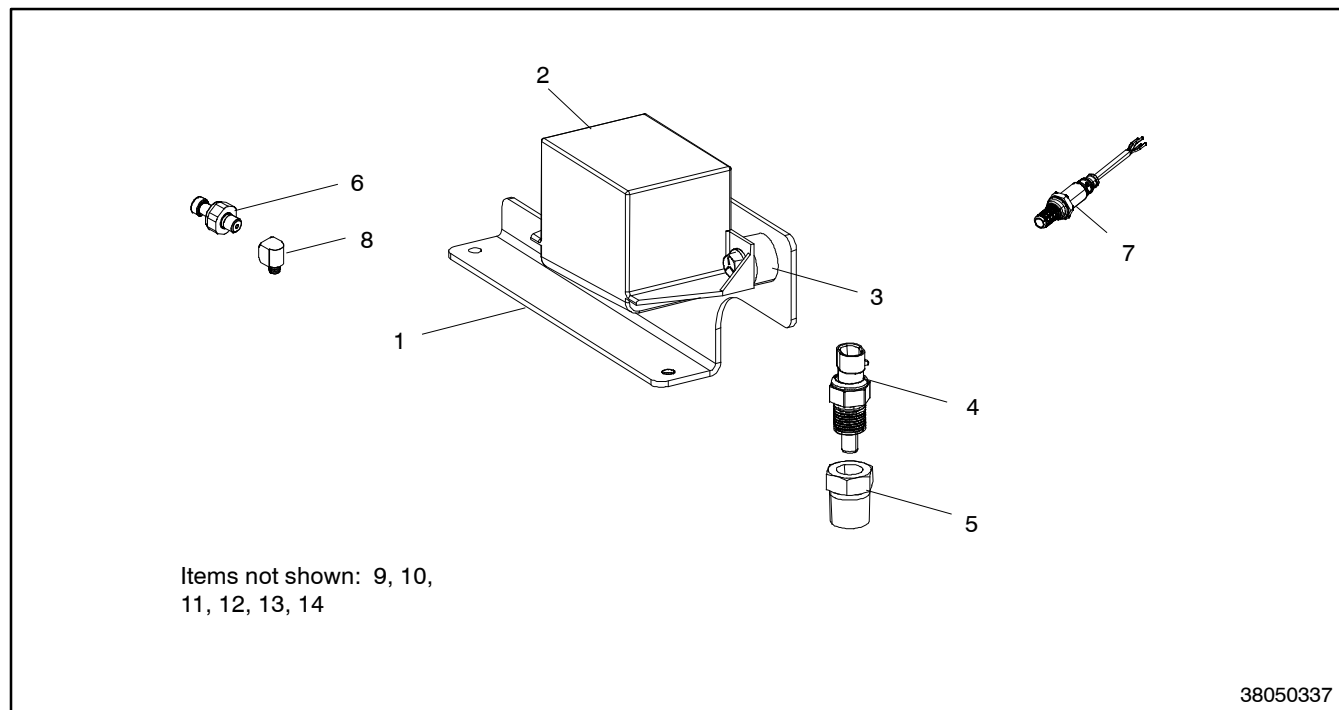
Variation: 38050325



| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM72303  | Sender, oil pressure           | 1    |
| 2    | GM75220  | Oil Pressure Fitting           | 1    |
| 3    | GM72292  | Sensor, O2                     | 1    |
| 4    | GM39601  | Sensor, coolant                | 1    |
| 5    | GM24341  | Fitting                        | 1    |
| 6    | GM75172  | Bracket, Fuse Block            | 1    |
| 7    | GM29604  | Isolator, relay box            | 2    |
| 8    | GM75139  | Harness, Stat., IEPR           | 1    |
| 9    | GM75103  | Nut, Flange 1/4-20 Serrated    | 2    |
| 10   | #        | Washer, Star 3/8               | 1    |
| 11   | #        | Bolt, 3/8-16x3/4 Flange Hd Ser | 1    |
| 12   | #        | Bolt, 1/4-20x1/2 Flange Hd Ser | 2    |
| 13   | #        | Bolt, 1/4-20x3/8 Flange Hd Ser | 2    |

# 1-11: Electrical

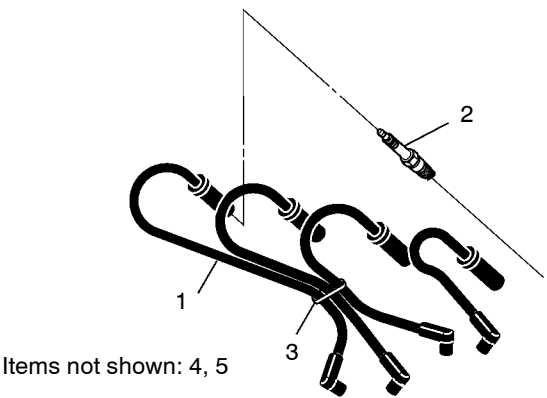
Variation: 38050337



| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM75172  | Bracket, Fuse Block            | 1    |
| 2    | GM75139  | Harness, Stationary, iEPR      | 1    |
| 3    | GM29604  | Isolator, relay box            | 2    |
| 4    | GM39601  | Sensor, coolant                | 1    |
| 5    | GM24341  | Fitting                        | 1    |
| 6    | GM72303  | Sender, oil pressure           | 1    |
| 7    | GM72292  | Sensor, O2                     | 2    |
|      |          | (Non-EPA engine uses qty. 1)   |      |
| 8    | GM85050  | Fitting, Oil Pressure          | 1    |
| 9    | GM75103  | Nut, Flange 1/4-20 Serrated    | 2    |
| 10   | #        | Clamp, InsIt'd                 | 1    |
| 11   | #        | Washer, Star 3/8               | 1    |
| 12   | #        | Bolt, 3/8-16x3/4 Flange Hd Ser | 2    |
| 13   | #        | Bolt, 1/4-20x1/2 Flange Hd Ser | 2    |
| 14   | #        | Bolt, 1/4-20x3/8 Flange Hd Ser | 2    |

# 1-12: Ignition System

Variation: 38050327



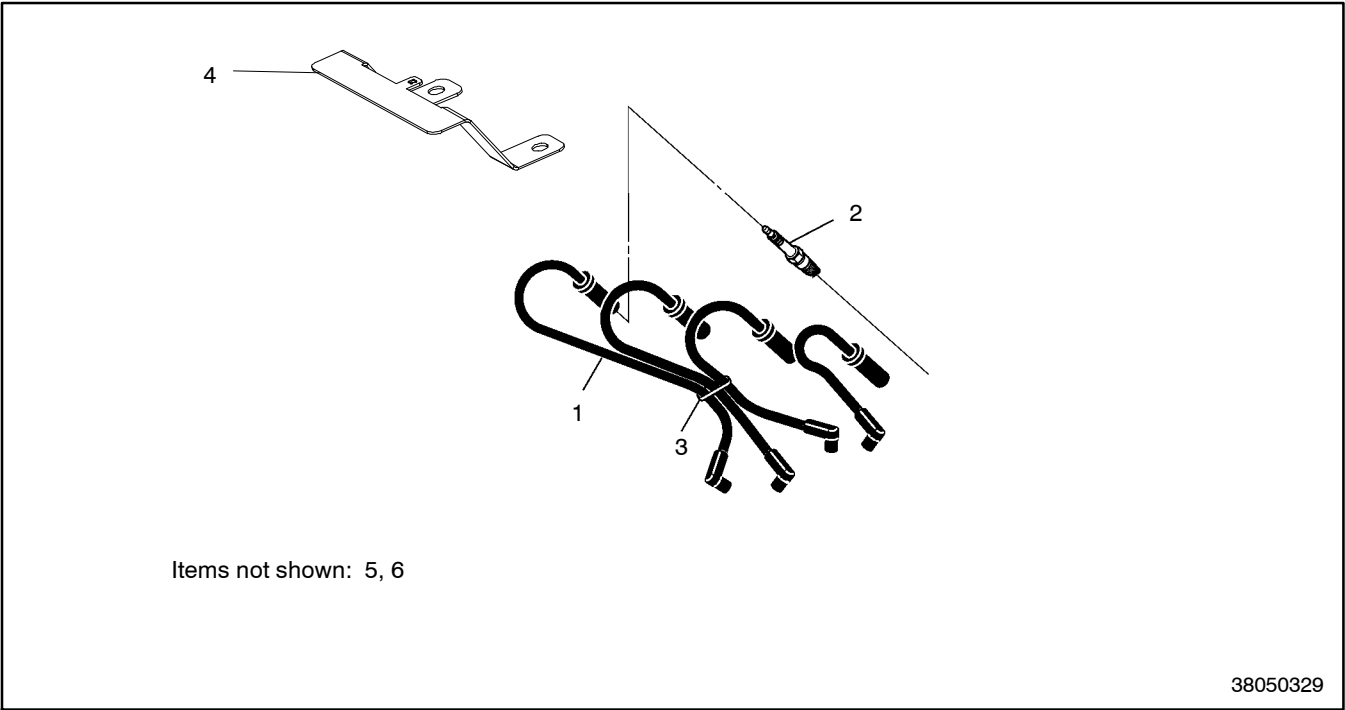
38050327

| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM75159  | Wires,Spark Plug               | 1    |
| 2    | GM22171  | Spark plug                     | 8    |
| 3    | GM16185  | Retainer, 4 wire spark plug    | 2    |
| 3    | GM16186  | Retainer, 2 wire spark plug    | 4    |
| 3    | GM16195  | Retainer, spark plug wire      | 1    |
| 3    | GM16196  | Retainer, spark plug wire      | 2    |
| 3    | GM16197  | Retainer, spark plug wire      | 1    |
| 4    | GM69592  | Loom, 3/8" S (67 in.)          | 1    |
| 5    | #        | Bolt, 1/4-20x1/2 Flange Hd Ser | 3    |



# 1-12: Ignition System

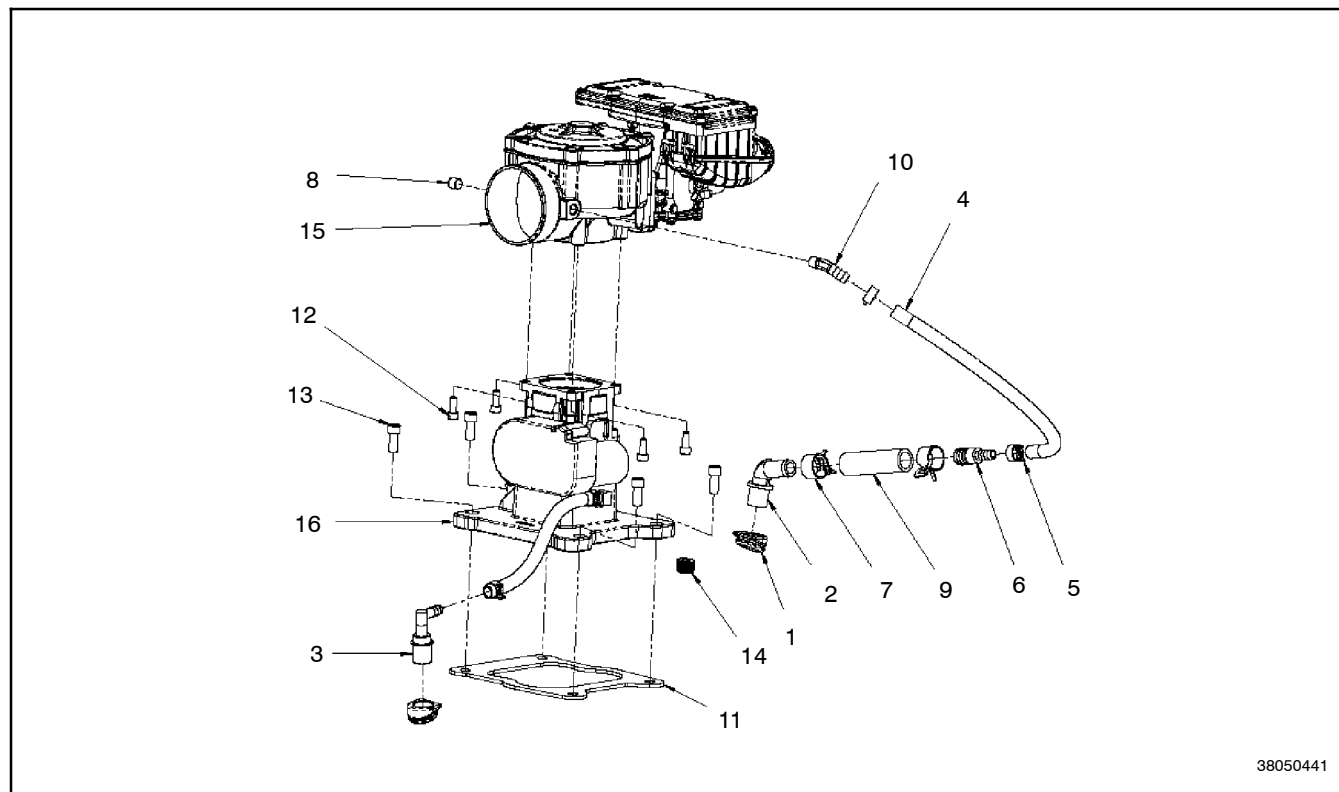
Variation: 38050329



| Item | Part No. | Description                 | Qty. |
|------|----------|-----------------------------|------|
| 1    | GM85031  | Wires, Plug HVS 8MM Hi Temp | 1    |
| 2    | GM22171  | Spark plug                  | 8    |
| 3    | GM16185  | Retainer, 4 wire spark plug | 2    |
| 4    | GM85021  | Bracket, Cable Support      | 2    |
| 5    | GM69592  | Loom, 3/8" S (28")          | 1    |
| 6    | GM36134  | Sleeve, thermo              | 1    |

# 1-13.1: Fuel System

Variation: 38050441 (5.0/5.7L, 60 kW)

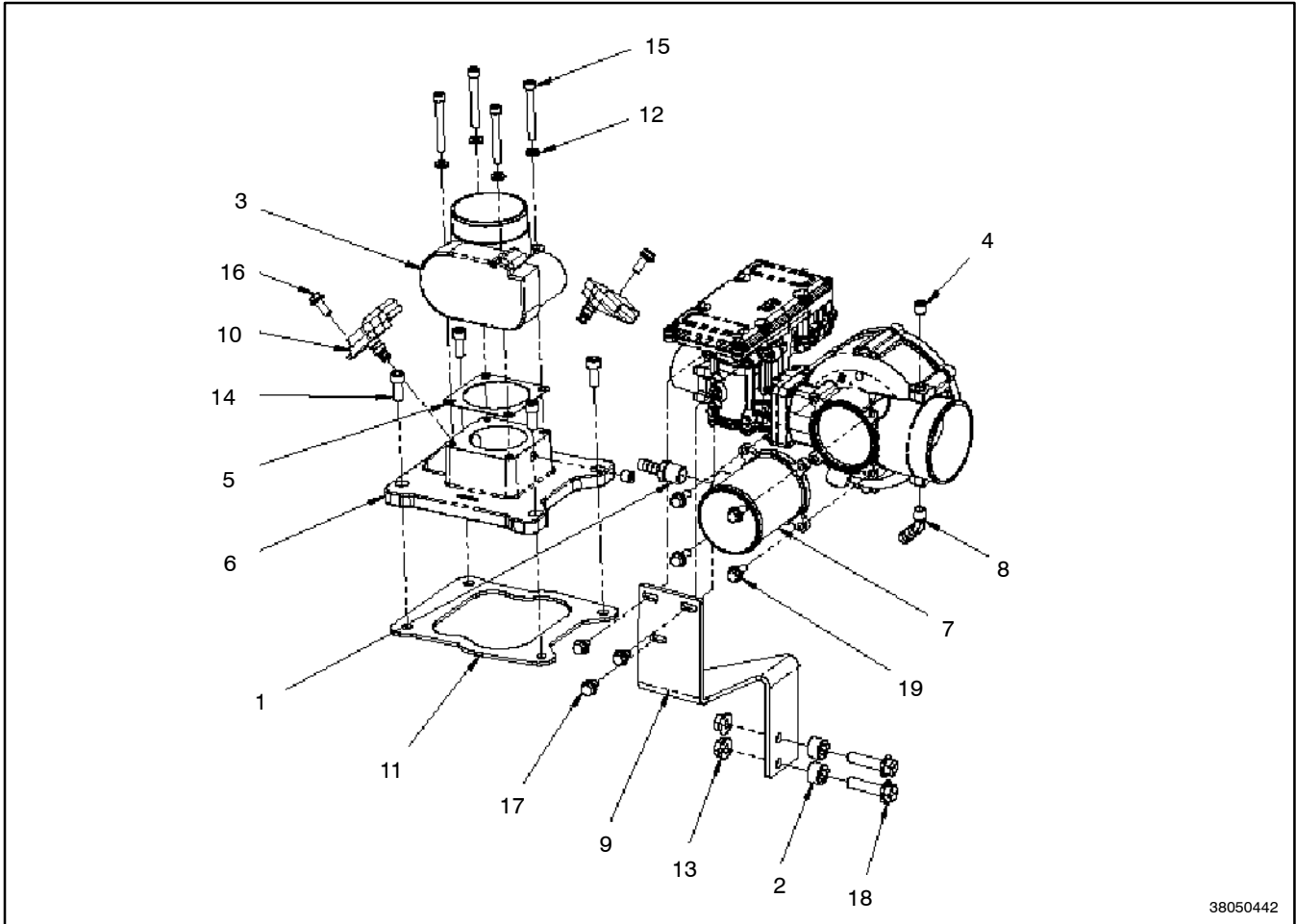


38050441

| Item | Part No. | Description                    | Qty. | Item | Part No. | Description                         | Qty. |
|------|----------|--------------------------------|------|------|----------|-------------------------------------|------|
| 1    | GM16143  | Grommet, PCV valve             | 2    | 8    | GM69787  | Plug, 1/8 NPT Skt Hd Brass          | 1    |
| 2    | GM16157  | Elbow, PCV system 5/8" 45 deg. | 1    | 9    | GM69492  | Tube, 0.625 ID x 3 in.              | 1    |
| 3    | GM16159  | Valve, PCV                     | 1    | 10   | GM75148  | Ftg, 1/8NPT x 3/8Hs 45 deg.         | 1    |
| 4    | GM42579  | Hose, fuel 3/8 in. 14.5 in.    | 1    | 11   | GM16202  | Gasket, intake manifold             | 1    |
| 5    | GM69488  | Clamp, hose 3/8 (spring type)  | 2    | 12   | GM69513  | Bolt, M6 x 1.0 x 15 skt hd, gr. 8.8 | 4    |
| 6    | GM69490  | Adapter, barb 5/8 to 3/8 nylon | 1    | 13   | GM69517  | Bolt, 5/16-18 x 3/4 skt hd, gr. 5   | 4    |
| 7    | GM75131  | Clamp, Hose 7/8"Od             | 2    | 14   | GM72314  | Plug, pipe 3/8 in. int. Manifold    | 1    |

# 1-13.1: Fuel System

Variation: 38050442 (5.7L 80/100 kW)

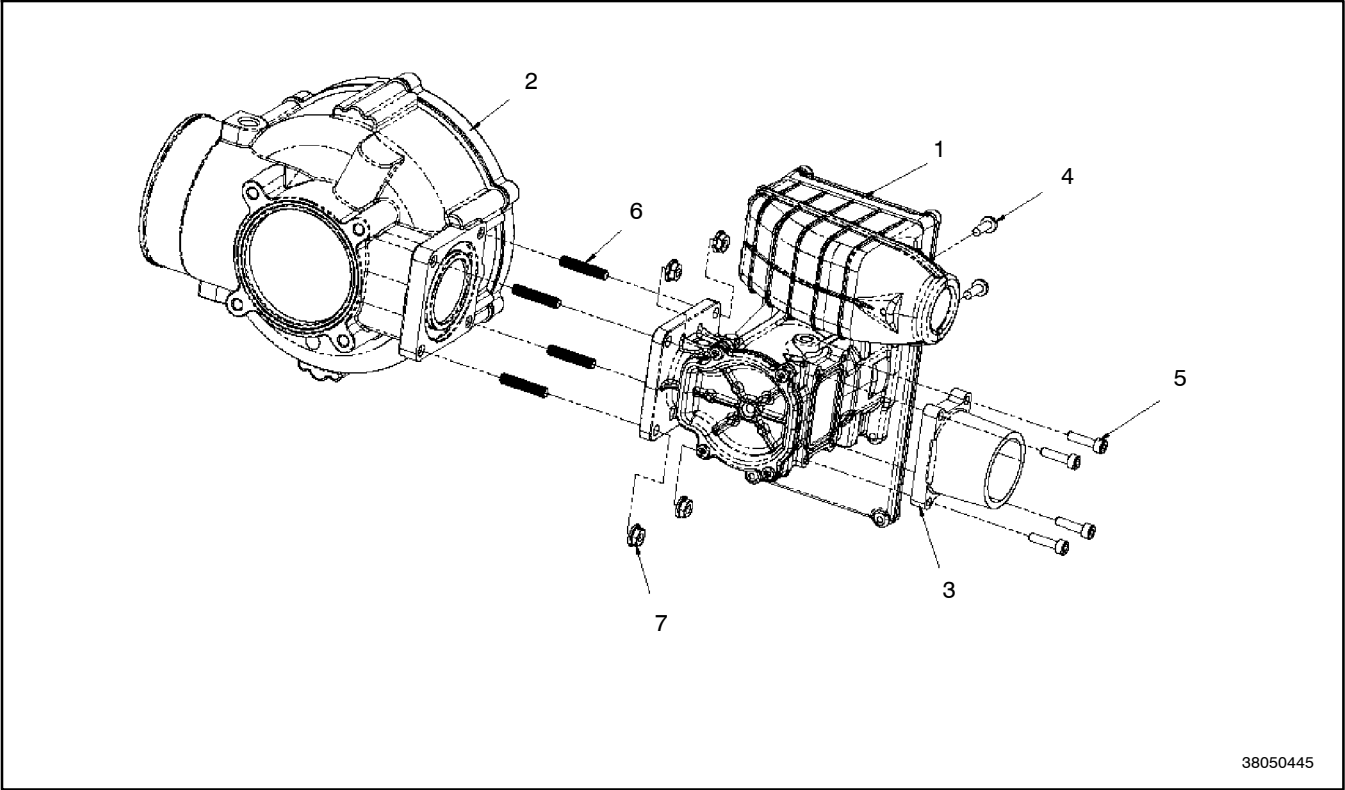


38050442

| Item | Part No. | Description                    | Qty. | Item | Part No. | Description                         | Qty. |
|------|----------|--------------------------------|------|------|----------|-------------------------------------|------|
| 1    | GM85011  | Fitting, 3/8NPT x 3/8 HoseBarb | 1    | 11   | GM85046  | Gasket, Int Man 5.7 High Temp       | 1    |
| 2    | GM16173  | Spacer, .75 OD x .38 ID x .50  | 2    | 12   | GM24188  | Washer, lock 1/4 in.                | 4    |
| 3    | GM29586  | Valve, throttle, 60 mm         | 1    | 13   | GM25974  | Nut, 3/8-16                         | 2    |
| 4    | GM69787  | Plug                           | 2    | 14   | GM69517  | Bolt, 5/16-18 x 3/4 skt hd, gr. 5   | 4    |
| 5    | GM60238  | Gasket, Man Adapter Venturi    | 1    | 15   | GM47684  | Bolt, 1/4-20 x 2 in. skt. Hd. Gr. 8 | 4    |
| 6    | GM69505  | Adapter, intake to TB          | 1    | 16   | #        | Bolt 1/4-20x5/8 Flange Hd Ser       | 2    |
| 7    | GM85022  | Adapter, E330 Mixer            | 1    | 17   | #        | Bolt, M6-1.0x10 Flange Hd Ser       | 3    |
| 8    | GM75148  | Ftg, 1/8NPT X 3/8Hs 45 Deg.    | 1    | 18   | #        | Bolt, 3/8-16 x 1 1/2 Flange Hd      | 2    |
| 9    | GM85024  | Bracket, EPR                   | 1    | 19   | #        | Bolt, M6-1.0 x 16 Flange Head       | 4    |
| 10   | GM72302  | Sensor, T map 3-bar            | 2    |      |          |                                     |      |

# 1-13.2: Fuel System, EPR/Mixer

Variation: 38050445

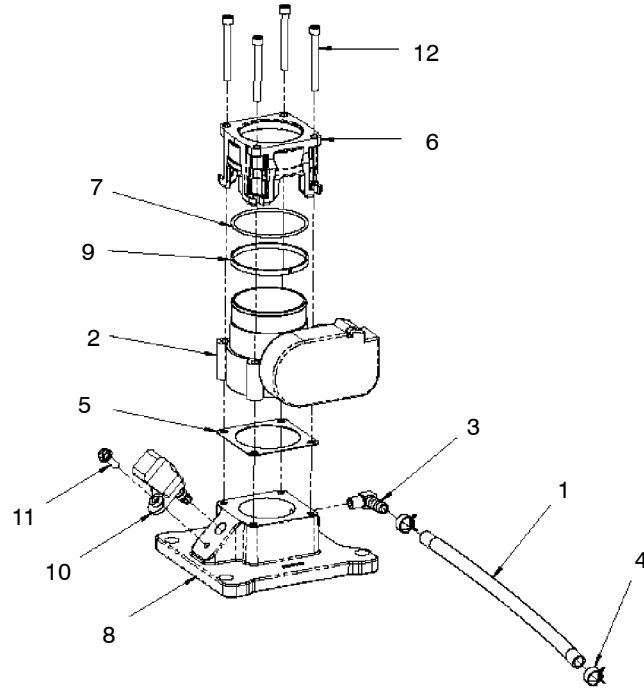


38050445

| Item | Part No. | Description                       | Qty. | Item | Part No. | Description                          | Qty. |
|------|----------|-----------------------------------|------|------|----------|--------------------------------------|------|
| 1    | GM69494  | EPR assembly (5.0 L)              | 1    | 1    | TBD      | EPR assembly (5.7 L, Non-EPA 100 kW) | 1    |
| 1    | GM72585  | EPR assembly (5.0 L, dual fuel)   | 1    | 2    | GM69500  | Mixer                                | 1    |
| 1    | GM75212  | EPR assembly (5.7 L, 60 kW)       | 1    | 3    | GM69509  | Adapter, EPR, 1 1/4 NPT              | 1    |
| 1    | GM93491  | EPR assembly (60RCL)              | 1    | 4    | GM75151  | Screw, Tabulated M4 X 12             | 2    |
| 1    | GM72586  | EPR assy (5.7L, 60, kW dual fuel) | 1    | 5    | GM69524  | Bolt, M4 x .70 x 16 skt hd           | 4    |
| 1    | GM85009  | EPR assembly (5.7 L, 80 kW)       | 1    | 6    | GM72323  | Stud, M5-.80 x 25                    | 4    |
| 1    | GM85010  | EPR assembly (5.7 L, 100 kW)      | 1    | 7    | GM72324  | Nut, M5-.80 flange                   | 4    |
| 1    | TBD      | EPR assy (5.7 L, Non-EPA 80 kW)   | 1    |      |          |                                      |      |

# 1-13.3: Fuel System, Throttle Body

Variation: 38050449

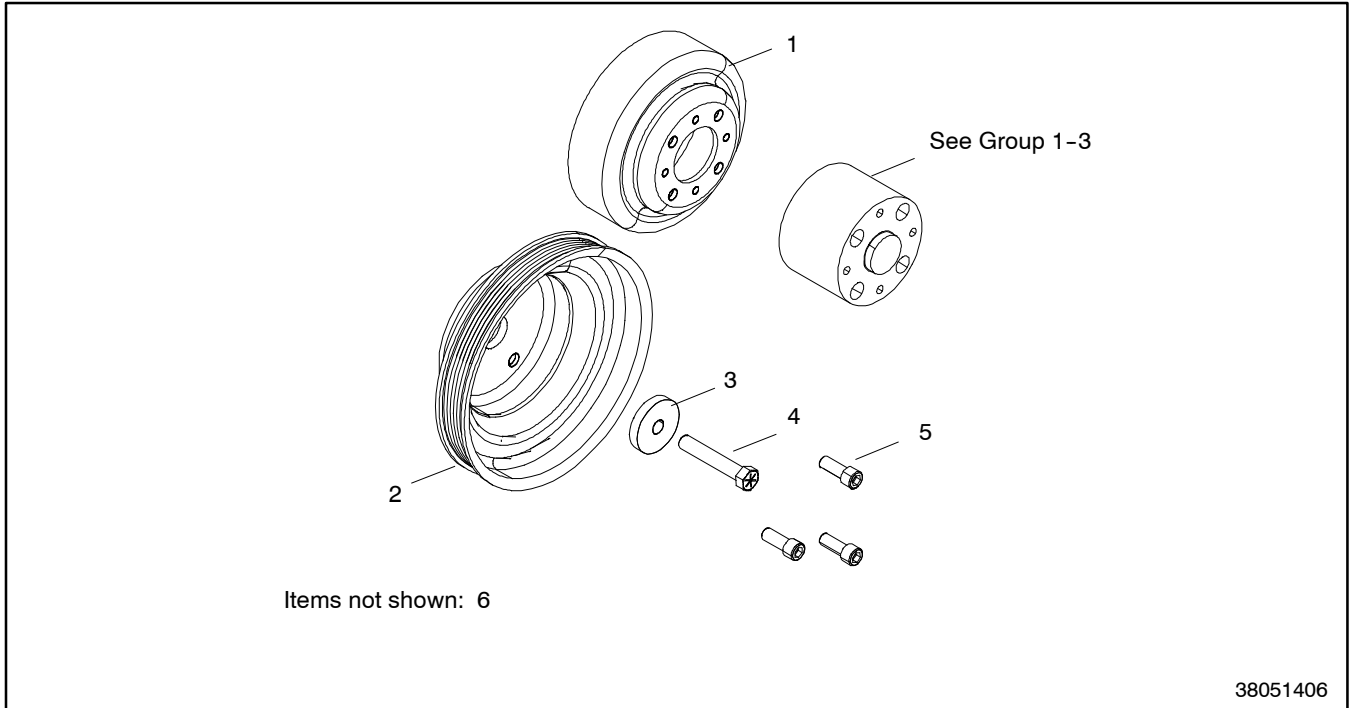


38050449

| Item | Part No. | Description                    | Qty. | Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|------|----------|--------------------------------|------|
| 1    | GM42579  | Hose, fuel 3/8 in. x 10.5 in.  | 1    | 7    | GM69504  | O-ring                         | 1    |
| 2    | GM29586  | Valve, throttle, 60 mm         | 1    | 8    | GM69505  | Adapter, intake to TB          | 1    |
| 3    | GM69487  | Fitting, 1/8 NPT x 3/8 90 deg. | 1    | 9    | GM75150  | Spacer                         | 1    |
|      |          | Elbow nylon                    |      | 10   | GM39227  | Sensor, 1 bar TMAP             | 1    |
| 4    | GM69488  | Clamp, hose 3/8 (spring type)  | 2    | 11   | #        | Bolt 1/4-20x5/8 Flange Hd Ser  | 1    |
| 5    | GM60238  | Gasket, Man Adapter Venturi    | 1    | 12   | #        | Bolt, 1/4-20 x2 1/4 Skt Hd Gr8 | 4    |
| 6    | GM69498  | Throttle adapter               | 1    |      |          |                                |      |

# 1-14: Pulley Assembly

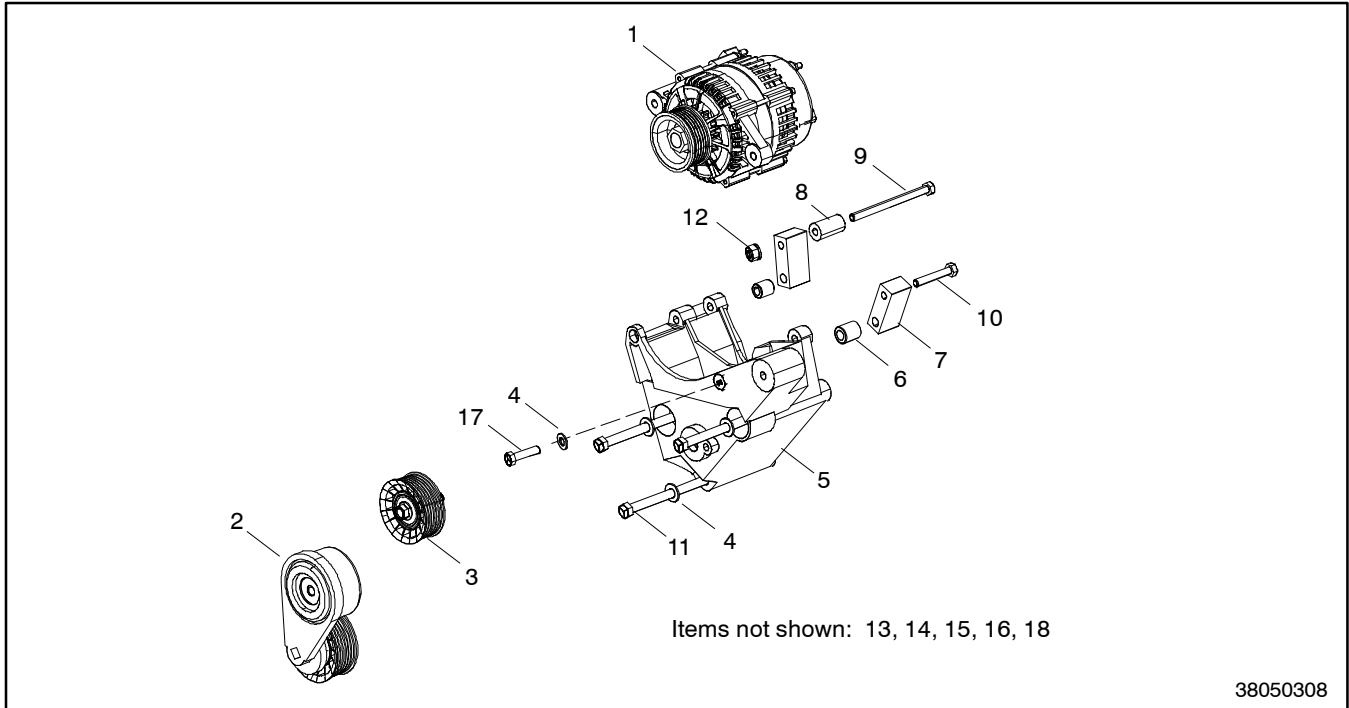
Variation: 38051406



| Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|
| 1    | GM16127  | Pulley, fan                    | 1    |
| 2    | GM16131  | Pulley, crankshaft/fan         | 1    |
| 3    | GM16130  | Washer, crankshaft pulley      | 1    |
| 4    | #        | Bolt, (CS) 7/16-20 x 2 1/2 Gr8 | 1    |
| 5    | #        | Bolt, 3/8-24 x 1 SktHd Grade 5 | 3    |
| 6    | GM72321  | Bolt, M8-1.25 x 20 flange head | 4    |

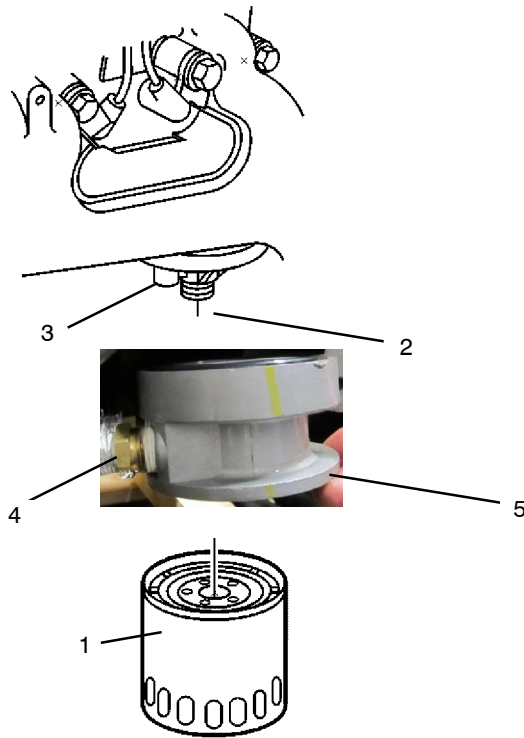
# 1-15: Alternator

Variation: 38050308



| Item | Part No. | Description                    | Qty. | Item | Part No. | Description                    | Qty. |
|------|----------|--------------------------------|------|------|----------|--------------------------------|------|
| 1    | GM16180  | Alternator, 70 amp             | 1    | 10   | #        | Bolt, M8-1.25 x 50 HxHd Gr 8.8 | 1    |
| 2    | GM16126  | Pulley, tensioner              | 1    | 11   | #        | Bolt, 3/8-16 x 4 1/2 HxHd Gr 5 | 3    |
| 3    | GM16121  | Pulley, idler                  | 1    | 12   | GM72312  | Nut, M8-1.25 flange serrated   | 1    |
| 4    | GM24190  | Washer, flat 3/8 SAE           | 4    | 13   | GM61733  | Washer                         | 1    |
| 5    | GM16122  | Bracket, alternator            | 1    | 14   | #        | Bolt, M10-1.50 x 90 HxHd Gr8.8 | 2    |
| 6    | GM16181  | Spacer, mount, 10 mm           | 2    | 15   | GM72313  | Washer, lock M10               | 1    |
| 7    | GM16183  | Block, mount                   | 2    | 16   | GM69516  | Washer, 3/8                    | 3    |
| 8    | GM16182  | Spacer, mount, 8 mm            | 1    | 17   | #        | Bolt, M10-1.50 x 85 HxHd Gr8.8 | 1    |
| 9    | #        | Bolt, M8-1.25 x 110 HxHd Gr8.8 | 1    | 18   | GM28959  | Nut, M6-1.0                    | 1    |

# 1-18: Oil Filter/Adapter



38050060

## Variation: 38050060

| Item | Part No. | Description              | Qty. |
|------|----------|--------------------------|------|
| 1    | GM16703  | Filter, oil              | 1    |
| 2    | GM16141  | Adapter, oil filter      | 1    |
| 3    | GM16142  | Bolt, oil filter adapter | 2    |

## Variation: 38050064

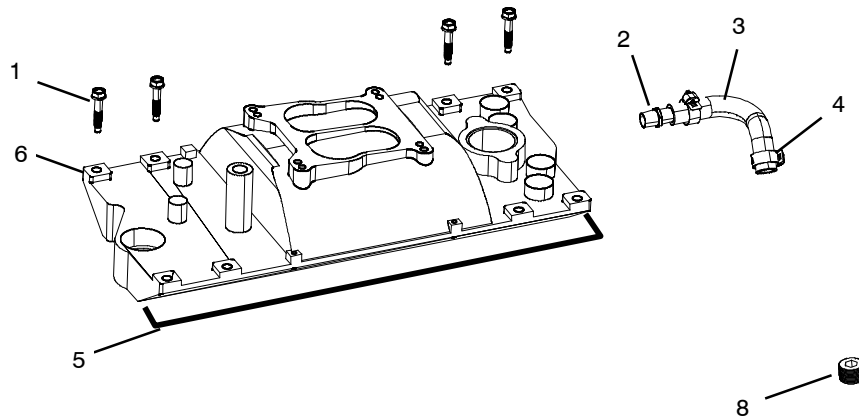
| Item | Part No. | Description              | Qty. |
|------|----------|--------------------------|------|
| 1    | GM42034  | Filter, oil              | 1    |
| 2    | GM16141  | Adapter, oil filter      | 1    |
| 3    | GM16142  | Bolt, oil filter adapter | 2    |

### Oil Cooler Hardware

|   |         |                               |   |
|---|---------|-------------------------------|---|
| 4 | GM60248 | Bushing, 1/2 MPT x 3/8 FPT    | 2 |
| 5 | GM85029 | Adapter, Oil Filter 1/2" Port | 1 |



# 1-19: Intake Manifold



38050812

## Variation: 38050812

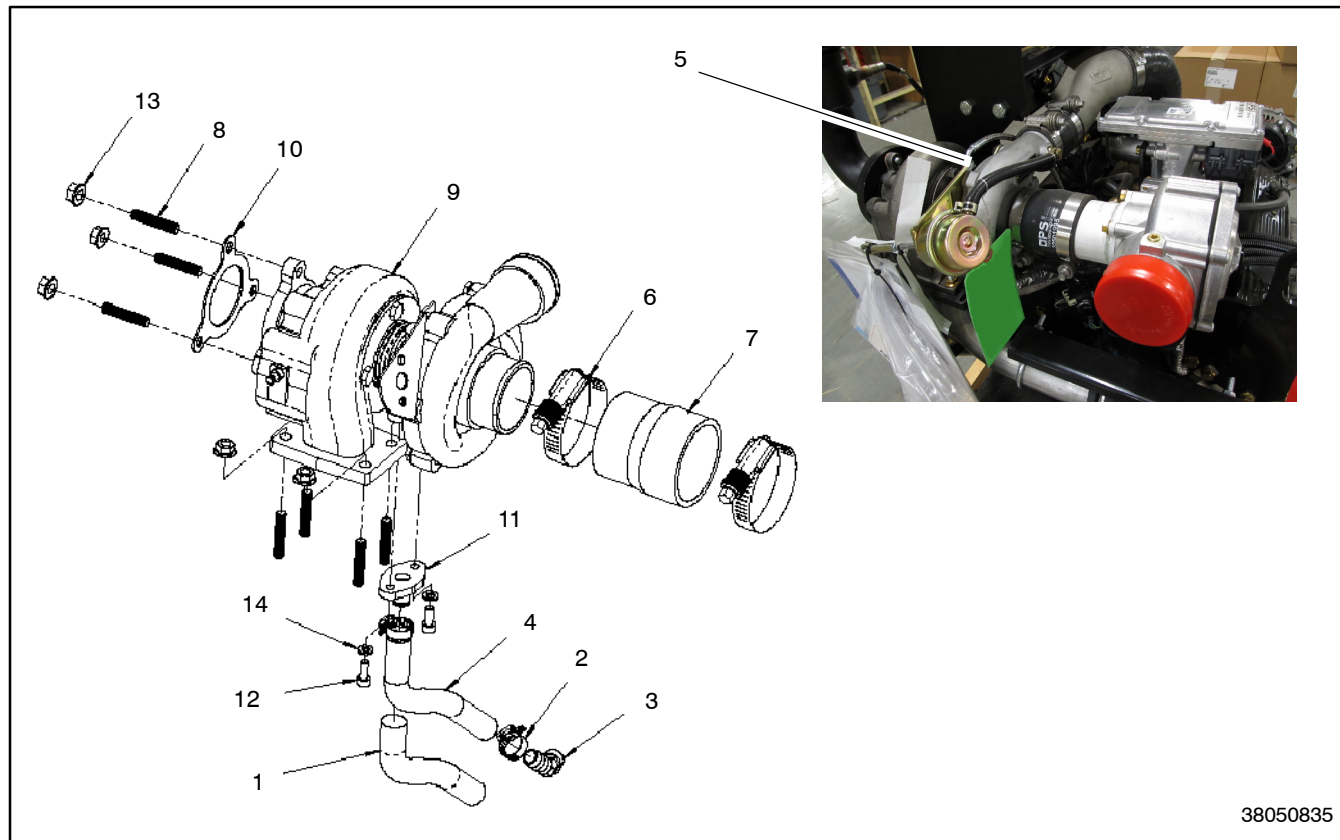
| Item | Part No. | Description             | Qty. |
|------|----------|-------------------------|------|
| 1    | GM16134  | Bolt, intake manifold   | 8    |
| 2    | GM24340  | Fitting                 | 1    |
| 3    | GM75133  | Hose, WP to Int Man     | 1    |
| 4    | GM16144  | Clamp, hose 1"          | 2    |
| 5    | GM16133  | Gasket, intake manifold | 1    |
| 6    | GM29842  | Manifold, intake (cast) | 1    |
| 8    | #        | Plug, 1/2" NPT, Steel   | 4    |

## Variation: 38050843

| Item | Part No. | Description             | Qty. |
|------|----------|-------------------------|------|
| 1    | GM16134  | Bolt, intake manifold   | 8    |
| 2    | GM24340  | Fitting                 | 1    |
| 3    | GM75133  | Hose, WP to Int Man     | 1    |
| 4    | GM16144  | Clamp, Hose 1 in.       | 2    |
| 5    | GM16133  | Gasket, intake manifold | 1    |
| 6    | GM85049  | Manifold, intake        | 1    |
| 8    | #        | Plug, 1/2" NPT, Steel   | 3    |

## 1-20.1: Turbocharger

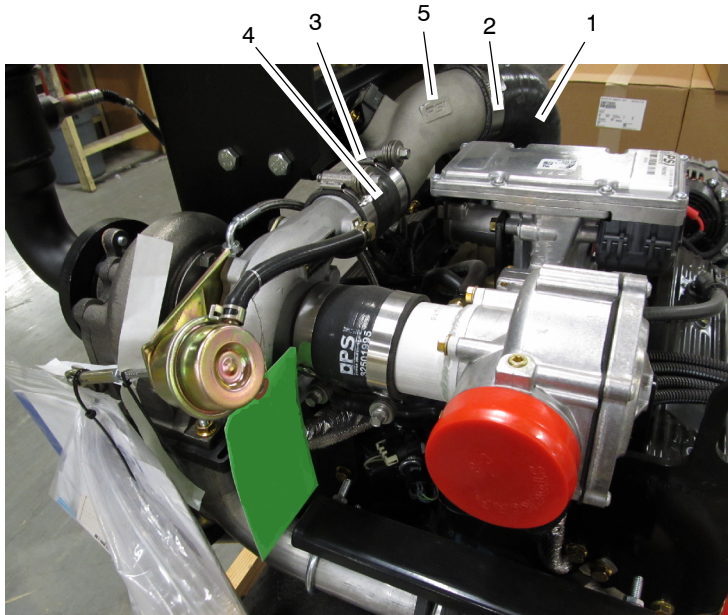
**Variation: 38050835**



| Item | Part No. | Description                         | Qty. |
|------|----------|-------------------------------------|------|
| 1    | GM36134  | Sleeve, thermo (12 in.)             | 1    |
| 2    | GM42578  | Clamp, 1/2 in. (M-6)                | 2    |
| 3    | GM85019  | Fitting, 3/8MPTx1/2HB 45 Brass      | 1    |
| 4    | GM85020  | Hose, High Temp 1/2" ID (12 in.)    | 1    |
| 5    | GM85023  | Hose, Oil Supply Asm                | 1    |
| 6    | GM85025  | Clamp, Const Trq 2 1/4-3 1/8        | 2    |
| 7    | GM85027  | Hose Reducer 2.50/2.36 Sil          | 1    |
| 8    | GM85040  | Stud, M8-1.25x40                    | 7    |
| 9    | GM85041  | Turbocharger                        | 1    |
| 10   | GM85043  | Gasket, Exhaust Pipe                | 1    |
| 11   | GM85045  | Fitting, 1/2" Oil Drain             | 1    |
| 12   | GM69513  | Bolt, M6 x 1.0 x 15 skt hd, gr. 8.8 | 2    |
| 13   | GM72312  | Nut, M8-1.25 flange serrated        | 7    |
| 14   | #        | Washer, M6 Flat                     | 2    |

## 1-20.2: Turbocharger Hardware

Variation: 38050849



38050849

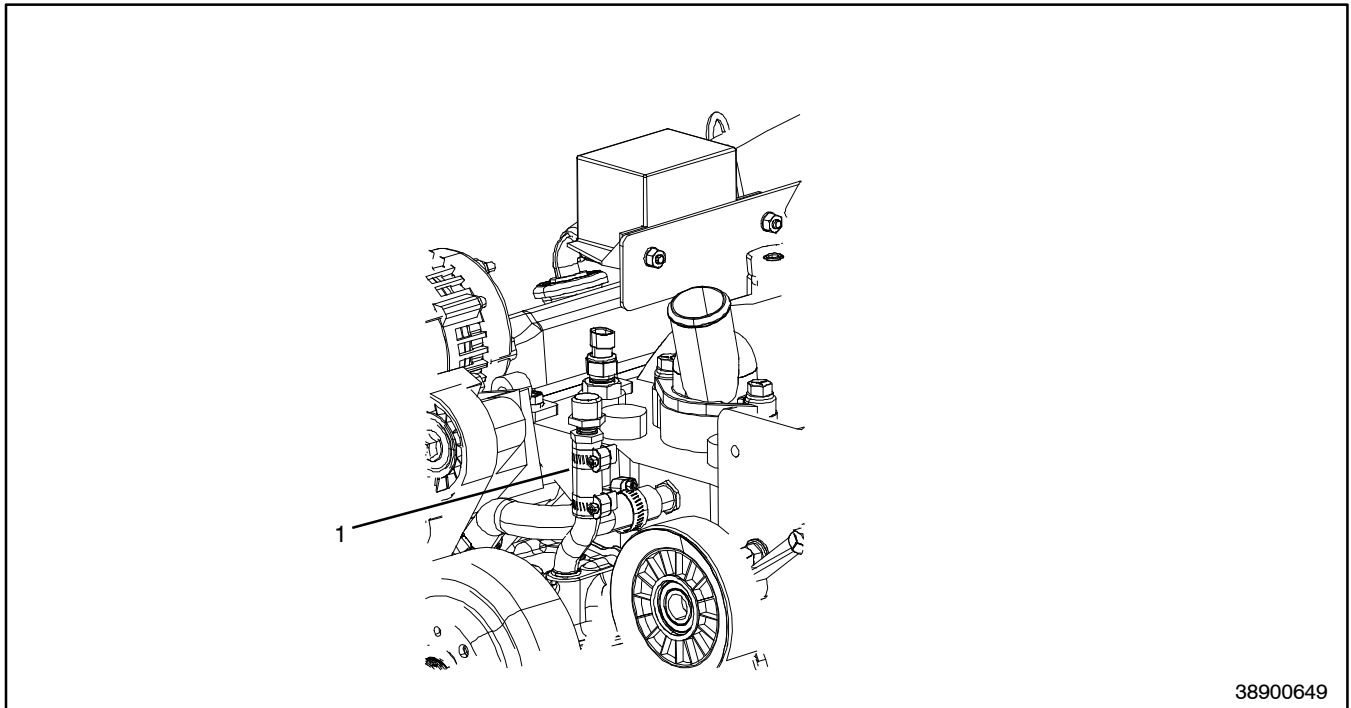
| Item | Part No. | Description                  | Qty. |
|------|----------|------------------------------|------|
| 1    | GM74361  | Silicone hose                | 1    |
| 2    | GM29601  | Clamp, 2 3/4-3 5/8 in.       | 2    |
| 3    | GM29603  | Clamp, 1 9/16-2 1/2 in.      | 2    |
| 4    | GM85026  | Hose 2.0" ID x 3.0" Silicone | 1    |
| 5    | GM85044  | Tube, Air Intake 80KW        | 1    |

## 1-21: Freeze Plug

Variation: 38050850  
Not illustrated.

| Item | Part No. | Description                   | Qty. |
|------|----------|-------------------------------|------|
| 1    | GM16116  | Adapter, freeze plug 1/2" NPT | 1    |
| 2    | GM16118  | Plug, 1/2" NPT brass          | 1    |
| 3    | GM16119  | Pipe, street elbow 1/2" NPT   | 1    |

## 1-22: Water Pump Hardware



38900649

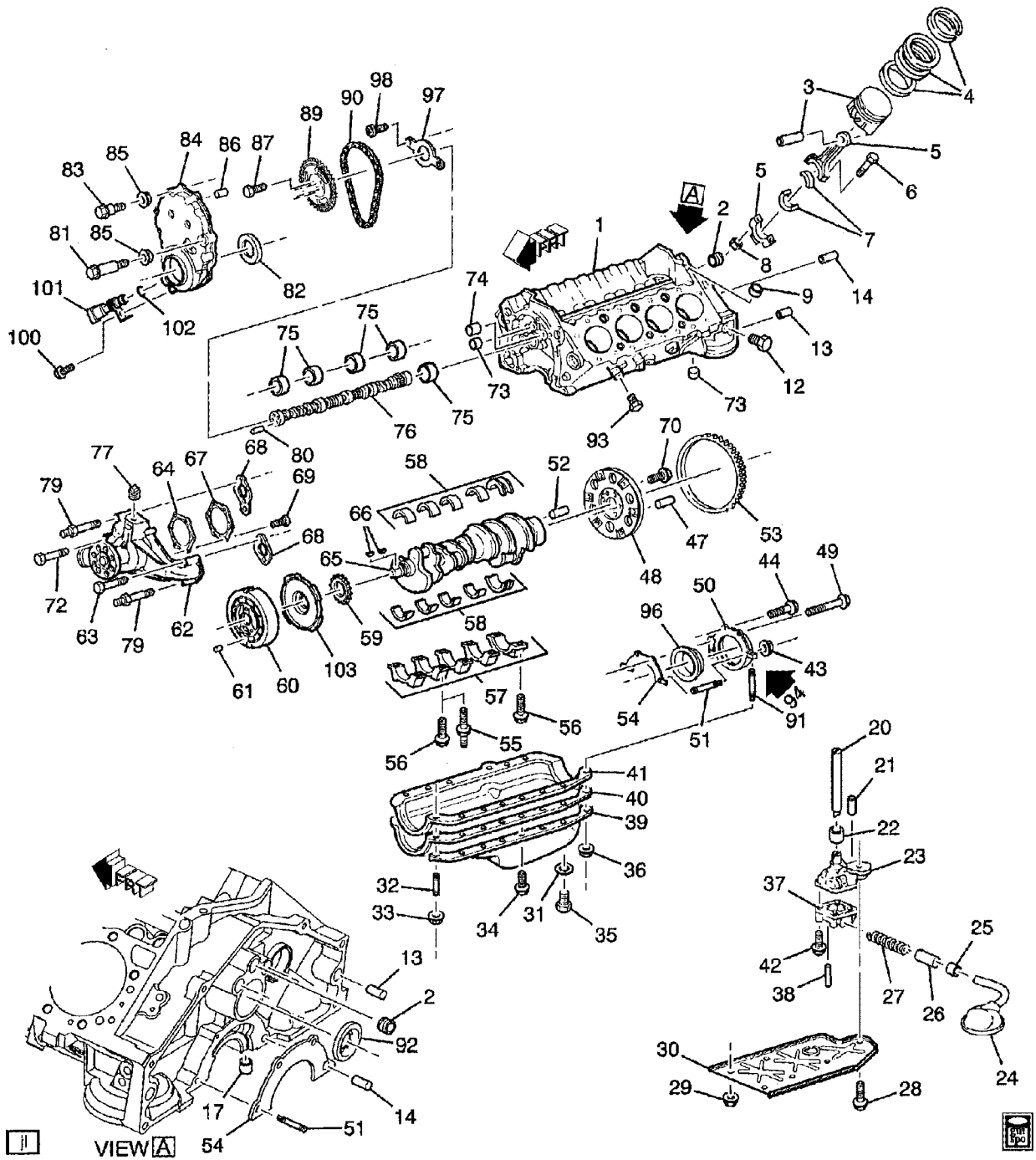
Variation: 38900649

| Item | Part No. | Description                                                    | Qty. |
|------|----------|----------------------------------------------------------------|------|
| 1    | GM16140  | Cap, Bypass 5/8"<br>(includes cap, connector, hose,<br>clamps) | 1    |

# Notes

## 2-1: Engine Block/Lower End

Variaton: 5.0 L



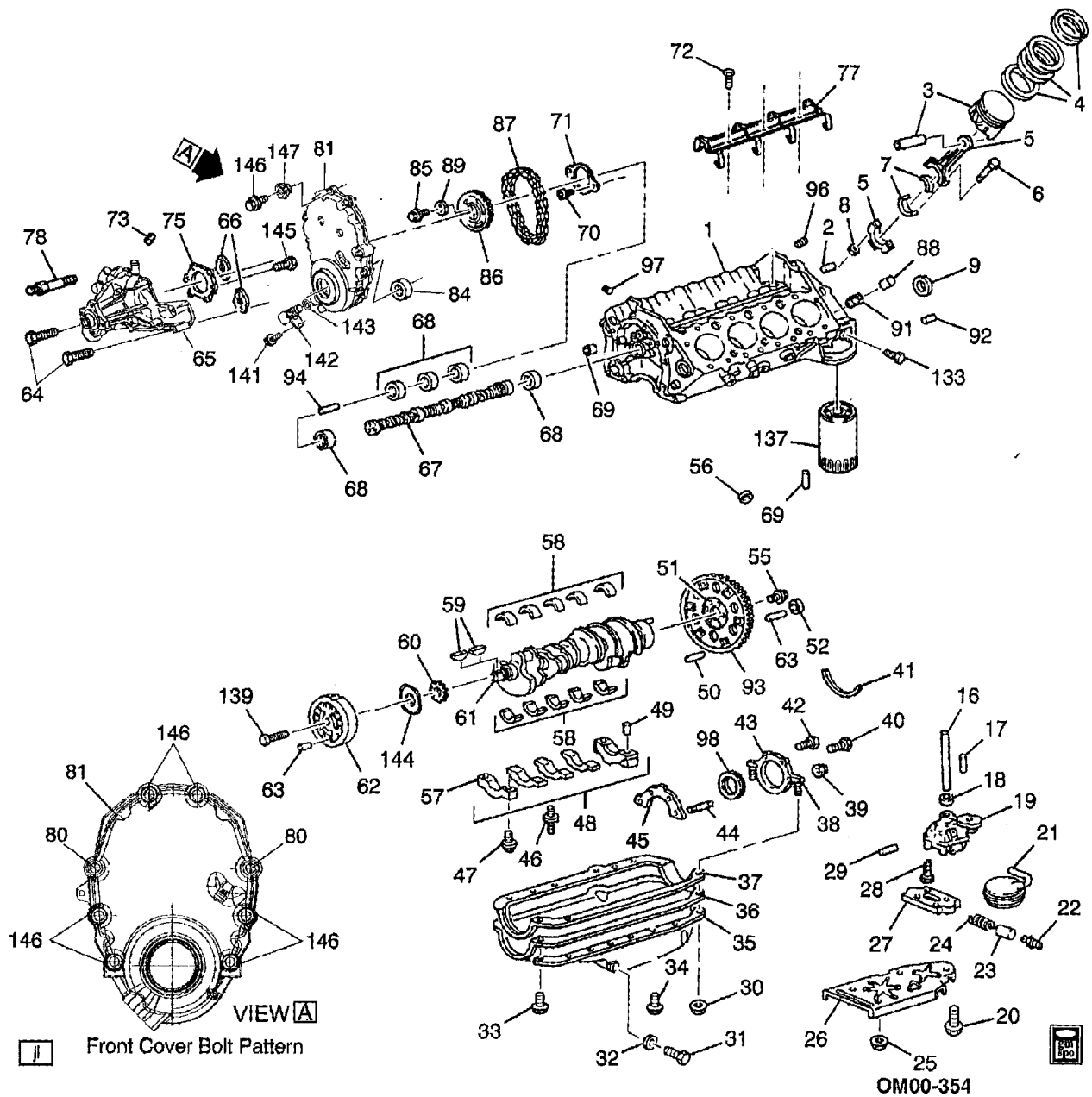
## 2-1: Engine Block/Lower End

Variaton: 5.0 L

| Item | Part No. | Description                                           | Qty. | Item | Part No. | Description                                      | Qty. |
|------|----------|-------------------------------------------------------|------|------|----------|--------------------------------------------------|------|
| 2    | GM16429  | Plug, hex 1/4-18 x .69                                | 3    | 54   | GM38981  | Gasket, crankshaft rear oil seal housing         | 1    |
| 3    | GM75055  | Piston, (w/pin) (std)                                 | 8    | 55   | GM16497  | Stud, crankshaft bearing cap                     | 5    |
| 3    | GM75056  | Piston, (w/pin) (.030 o.s.)                           | 8    | 56   | GM16588  | Bolt, crlshf brg cap (7/16-14X3.34)              | 10   |
| 4    | GM75053  | Ring kit, pstn (.030 o.s.)                            | 8    | 57   | -        | Not serviced                                     | 4    |
| 4    | GM75052  | Ring kit, pstn (std)                                  | 8    | 58   | GM16451  | Bearing kit, crankshaft (.001 OS)                | 4    |
| 5    | GM16363  | Rod, connecting                                       | 8    | 58   | GM16447  | Bearing kit, crankshaft (.001 mm OS)             | 1    |
| 6    | GM16546  | Bolt, connecting rod                                  | 16   | 59   | GM16509  | Sprocket, Crankshaft (18 teeth)                  | 1    |
| 7    | GM75054  | Bearing kit, conn rod                                 | 8    | 60   | GM64571  | Balancer, crankshaft                             | 1    |
| 7    | GM16443  | Bearing kit, conn rod (.001 OS)                       | 8    | 62   | GM75222  | Pump kit, wat, (incls plug, seal, cover, gasket) | 1    |
| 8    | GM16586  | Nut, connecting rod                                   | 16   | 64   | GM16483  | Gasket, water pump cover                         | 1    |
| 9    | GM16577  | Plug                                                  | 1    | 65   | GM75020  | Crankshaft, (incls 64, 67, 69)                   | 1    |
| 12   | GM16504  | Plug, hex 1/4-18 x 0.56                               | 2    | 66   | GM16539  | Key, crankshaft balancer                         | 1    |
| 13   | GM38899  | Pin                                                   | 2    | 68   | GM16582  | Gasket, water pump                               | 2    |
| 14   | GM16599  | Pin, crnkshft rear oil seal locator                   | 1    | 69   | -        | Bolt, wipmp cvr(part of #62)                     | 1    |
| 17   | GM16512  | Plug, 476 x .31                                       | 1    | 70   | GM38896  | Bolt, flywheel                                   | 6    |
| 20   | GM16589  | Shaft, oil pump drive                                 | 1    | 72   | GM75106  | Bolt, w/pmp(3/8-16x2.75)                         | 1    |
| 21   | GM16476  | Pin, locator 1/4 x 5/8                                | 2    | 73   | GM16512  | Plug, 476 x .31                                  | 1    |
| 22   | GM16583  | Retainer, oil pump drive shaft                        | 1    | 74   | GM16365  | Plug, engine block oil galley                    | 1    |
| 23   | GM16482  | Pump, oil (.742 dia. Tube)                            | 1    | 75   | GM16431  | Bearing, camshaft                                | 1    |
| 24   | GM16455  | Screen, oil pump                                      | 1    | 75   | GM16432  | Bearing, camshaft                                | 2    |
| 25   | GM16580  | Plug, oil press relief valve bore                     | 1    | 75   | GM16433  | Bearing, camshaft                                | 2    |
| 26   | GM16579  | Valve, oil pressure relief                            | 1    | 76   | GM75102  | Camshaft                                         | 1    |
| 27   | GM75093  | Spring, oil press rlf vlv                             | 1    | 77   | GM75038  | Plug, w/pmp                                      | 1    |
| 28   | GM16347  | Bolt, oil pump 7/16-14 x 2 3/8                        | 1    | 79   | GM16820  | Stud, water pump                                 | RH   |
| 29   | GM16603  | Nut, crankshaft oil deflector                         | 5    | 80   | GM16476  | Pin, locator 1/4 x 5/8                           | 1    |
| 30   | GM16492  | Deflector, crankshaft oil                             | 1    | 84   | GM53099  | Cover, engine front                              | 1    |
| 31   | GM75088  | Seal, oil pan drn plug(o ring)                        | 1    | 86   | -        | Not serviced                                     | 1    |
| 34   | GM16596  | Bolt, oil pan                                         | 14   | 89   | GM16463  | Sprocket, camshaft (36 teeth)                    | 1    |
| 36   | GM16553  | Nut, oil pan                                          | 4    | 90   | GM16508  | Chain, camshaft timing (roller chain)            | 1    |
| 37   | GM16376  | Cover, oil pump                                       | 1    | 91   | GM16502  | Stud, crankshaft rear oil seal retainer          | 2    |
| 38   | GM16549  | Pin                                                   | 1    | 92   | GM16397  | Plug, camshaft rear bearing hole                 | 1    |
| 39   | GM16467  | Reinforcement, oil pan                                | LH   | 93   | GM16504  | Plug, hex 1/4-18 x 0.56                          | 1    |
| 39   | GM16468  | Reinforcement, oil pan                                | RH   | 94   | GM75223  | Sealer, crishf balr keyway                       | AR   |
| 40   | GM16449  | Pan, oil                                              | 1    | 96   | GM16474  | Seal, crankshaft rear oil                        | 1    |
| 41   | GM16362  | Gasket, oil pan                                       | 1    | 97   | GM16372  | Retainer, camshaft                               | 1    |
| 42   | GM16422  | Bolt, oil pump cover                                  | 4    | 98   | GM16513  | Bolt, balancer shaft retainer                    | 2    |
| 43   | GM75010  | Nut, crishf rr oil seal ret                           | 1    | 100  | GM75040  | Bolt, crishf posn sen                            | 1    |
| 44   | GM16505  | Bolt, crankshaft rear oil seal housing                | 2    | 101  | GM75083  | Sensor, crishf posn                              | 1    |
| 48   | GM75097  | Flywheel, eng(flywhl), (has hardened ring gear teeth) | 1    | 102  | GM75023  | Seal, crishf posn sen(o ring)                    | 1    |
| 49   | GM16506  | Bolt, crnkshft rear oil seal hsg                      | 1    | 103  | GM75018  | Ring, crishf posn sen reluctor                   | 1    |
| 50   | GM16473  | Housing, crankshaft rear oil seal                     | 1    |      |          |                                                  |      |
| 51   | GM16518  | Stud, crankshaft rear oil seal retainer               | 1    |      |          |                                                  |      |
| 52   | GM75013  | Pin, flywhl loc(flywhl)                               | 1    |      |          |                                                  |      |
| 53   | GM75008  | Gear, flywhl ring(flywhl)                             | 1    |      |          |                                                  |      |

## 2-1: Engine Block/Lower End, continued

Variaton: 5.7 L





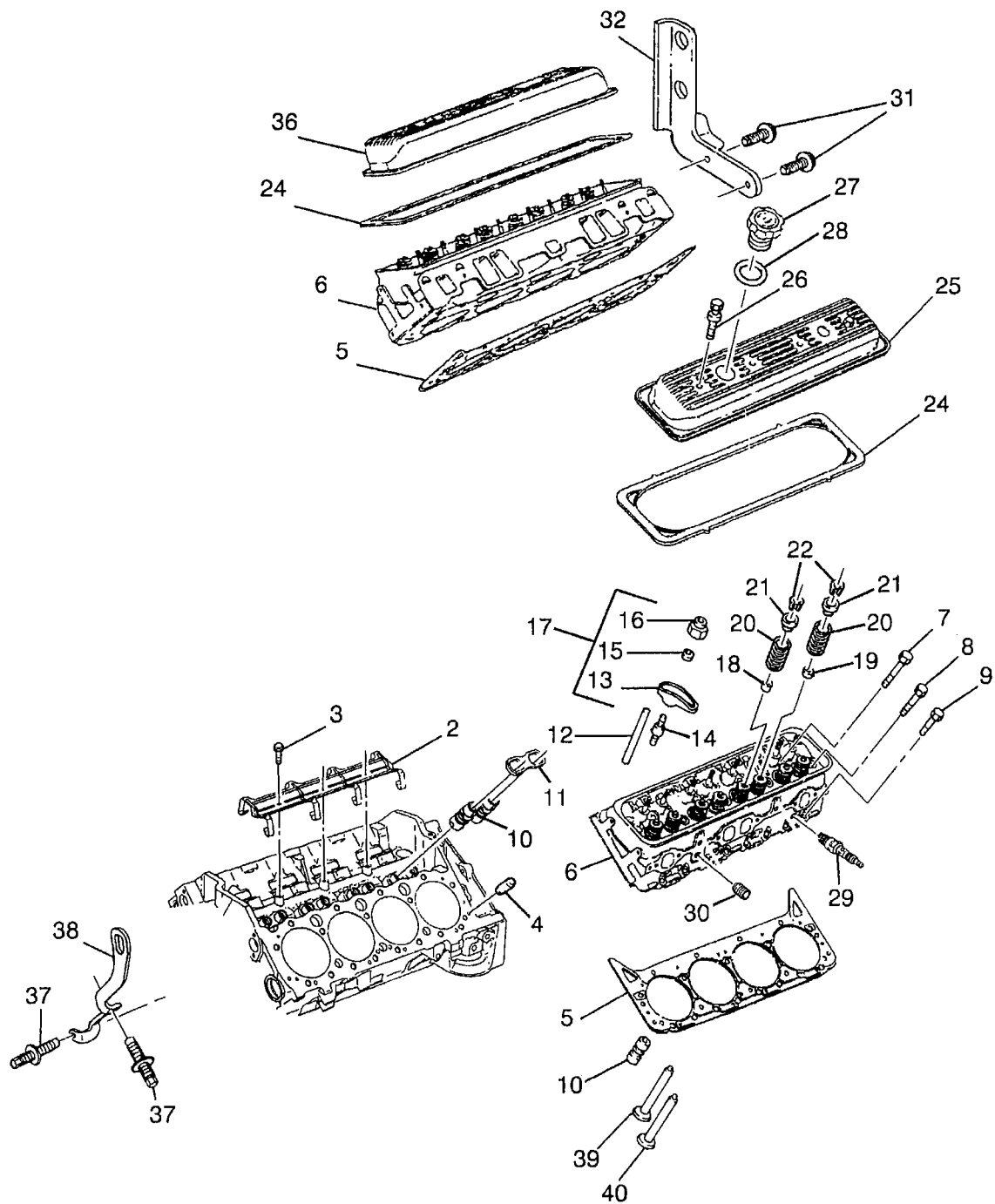
## 2-1: Engine Block/Lower End, continued

Variaton: 5.7 L

| Item | Part No. | Description                                           | Qty. | Item | Part No. | Description                                     | Qty. |
|------|----------|-------------------------------------------------------|------|------|----------|-------------------------------------------------|------|
| 2    | GM16429  | Plug, hex 1/4-18 x .69                                | 1    | 57   | GM75006  | Cap, cr/shf brg(posn #1)                        | 1    |
| 3    | GM16442  | Piston, (w/pin)(std)                                  | 8    | 58   | GM16451  | Bearing kit, crankshaft (#1,2,3,4)(.001 OS)     | 4    |
| 3    | GM75226  | Piston, (w/pin)(0.127mm O.S.)                         | 8    |      |          |                                                 |      |
| 3    | GM16445  | Piston, (w/pin)(0.5mm O.S.)                           | 8    | 58   | GM16447  | Bearing kit, crankshaft (#5)(.001 mm OS)        | 1    |
| 4    | GM16444  | Ring kit, piston (0.50 mm OS)                         | 8    |      |          |                                                 |      |
| 4    | GM16441  | Ring kit, piston std.                                 | 8    | 59   | GM16539  | Key, crankshaft balancer                        | 2    |
| 5    | GM16363  | Rod, connecting                                       | 8    | 60   | GM16509  | Sprocket, Crankshaft (18 teeth)                 | 1    |
| 6    | GM16546  | Bolt, connecting rod                                  | 16   | 61   | GM16403  | Crankshaft                                      | 1    |
| 7    | GM75054  | Bearing kit, conn rod                                 | 8    | 62   | GM64571  | Balancer, crankshaft                            | 1    |
| 8    | GM16586  | Nut, connecting rod                                   | 16   | 63   | GM38899  | Pin                                             | 2    |
| 9    | GM16397  | Plug, camshaft rear bearing hole                      | 1    | 64   | GM16462  | Bolt, water pump 3/8-16 x 2.12                  | 4    |
| 16   | GM16589  | Shaft, oil pump drive                                 | 1    | 65   | GM75237  | Pump kit, wat (incls plug, seal, cover, gasket) | 1    |
| 17   | GM16476  | Pin, locator 1/4 x 5/8                                | 1    |      |          |                                                 |      |
| 18   | GM16583  | Retainer, oil pump drive shaft                        | 1    | 66   | GM16582  | Gasket, water pump                              | 2    |
| 19   | GM16482  | Pump, oil (.742 dia. Tube)                            | 1    | 67   | GM16398  | Camshaft                                        | 1    |
| 20   | GM16347  | Bolt, oil pump 7/16-14 x 2 3/8                        | 1    | 68   | GM16431  | Bearing, camshaft                               | 1    |
| 21   | GM16455  | Screen, oil pump                                      | 1    | 68   | GM16432  | Bearing, camshaft                               | 2    |
| 22   | GM16580  | Plug, oil press relief valve bore                     | 1    | 68   | GM16433  | Bearing, camshaft                               | 2    |
| 23   | GM16579  | Valve, oil pressure relief                            | 1    | 69   | GM16512  | Plug, 476 x .31                                 | 1    |
| 24   | GM75093  | Spring, oil press rlf vlv                             | 1    | 69   | GM16429  | Plug, hex 1/4-18 x .69                          | 1    |
| 25   | GM16603  | Nut, crankshaft oil deflector                         | 5    | 69   | GM16365  | Plug, engine block oil galley                   | 2    |
| 26   | GM16492  | Deflector, crankshaft oil                             | 1    | 70   | GM16513  | Bolt, balancer shaft retainer                   | 2    |
| 27   | GM16376  | Cover, oil pump                                       | 1    | 71   | GM16372  | Retainer, camshaft                              | 1    |
| 28   | GM16422  | Bolt, oil pump cover                                  | 4    | 72   | GM16528  | Bolt, valve lifter guide retainer               | 3    |
| 30   | GM16553  | Nut, oil pan                                          | 4    | 73   | GM75038  | Plug, w/pmp                                     | 1    |
| 32   | GM75088  | Seal, oil pan drn plug(o ring)                        | 1    | 75   | GM16483  | Gasket, water pump cover                        | 1    |
| 33   | GM16596  | Bolt, oil pan                                         | 14   | 77   | GM16519  | Retainer, valve lifter guide                    | 1    |
| 34   | GM16596  | Bolt, oil pan                                         | 14   | 80   | GM16458  | Bolt, engine front cover                        | 2    |
| 35   | GM16467  | Reinforcement, oil pan                                | LH   | 81   | GM53099  | Cover, engine front                             | 1    |
| 35   | GM16468  | Reinforcement, oil pan                                | RH   | 84   | GM16366  | Seal, crankshaft front oil                      | 1    |
| 36   | GM16449  | Pan, oil                                              | 1    | 85   | GM16594  | Bolt, camshaft sprocket                         | 3    |
| 37   | GM16362  | Gasket, oil pan                                       | 1    | 86   | GM16463  | Sprocket, camshaft (36 teeth)                   | 1    |
| 38   | GM16502  | Stud, crnkshft rr oil seal retainer                   | 2    | 87   | GM16508  | Chain, cmshtf tmg (roller chain)                | 1    |
| 39   | GM75010  | Nut, crishf rr oil seal ret                           | 1    | 88   | GM16429  | Plug, hex 1/4-18 x .69                          | 1    |
| 40   | GM16506  | Bolt, crankshaft rear oil seal hsg                    | 1    | 89   | GM16575  | Washer, camshaft sprocket                       | 3    |
| 41   | -        | Not serviced                                          | 1    | 91   | GM16429  | Plug, hex 1/4-18 x .69                          | 1    |
| 42   | GM16505  | Bolt, crankshaft rear oil seal hsg                    | 2    | 92   | GM38899  | Pin                                             | 2    |
| 43   | GM16473  | Housing, crankshaft rear oil seal                     | 1    | 93   | GM75008  | Gear, flywhl ring(flywhl)                       | 1    |
| 44   | GM16518  | Stud, crnkshft rr oil seal retainer                   | 1    | 94   | GM16476  | Pin, locator 1/4 x 5/8                          | 2    |
| 45   | GM38981  | Gasket, crnkshft rr oil seal hsg                      | 1    | 96   | GM16504  | Plug, hex 1/4-18 x 0.56                         | 2    |
| 46   | GM16497  | Stud, crankshaft bearing cap                          | AR   | 97   | GM16504  | Plug, hex 1/4-18 x 0.56                         | 2    |
| 47   | GM16588  | Bolt, crishf brg cap (7/16-14X3.34)                   | 10   | 98   | GM16474  | Seal, crankshaft rear oil                       | 1    |
| 48   | GM75007  | Cap, cr/shf brg (posn #2, 3, 4)                       | 3    | 133  | GM16429  | Plug, hex 1/4-18 x .69                          | 1    |
| 49   | GM16599  | Pin, crnkshft rear oil seal locator                   | 1    | 133  | GM16510  | Plug, 3/8-18 x .42                              | 3    |
| 50   | GM75013  | Pin, flywhl loc(flywhl)                               | 1    | 142  | GM75083  | Sensor, crishf posn                             | 1    |
| 51   | GM75097  | Flywheel, eng(flywhl), (has hardened ring gear teeth) | 1    | 143  | GM75023  | Seal, Cr/shf Posn Sen(O Ring)                   | 1    |
|      |          |                                                       |      | 144  | GM75018  | Ring, crishf posn sen reluctor                  | 1    |
|      |          |                                                       |      | 145  | GM16513  | Bolt, balancer shaft retainer                   | 6    |
| 52   | GM75095  | Bearing, clu pilot                                    | 1    | 145  | GM16601  | Bolt, water pump cover                          | 8    |
| 55   | GM38896  | Bolt, flywheel                                        | 6    | 146  | GM16458  | Bolt, engine front cover                        | 6    |
| 56   | GM16585  | Plug, eng blk core hole (brass, 41.4 mm)              | 8    | 147  | GM16388  | Grommet, engine front cover                     | 8    |

## 2-2: Engine Head/Upper End

Variaton: 5.0 L



## 2-2: Engine Head/Upper End

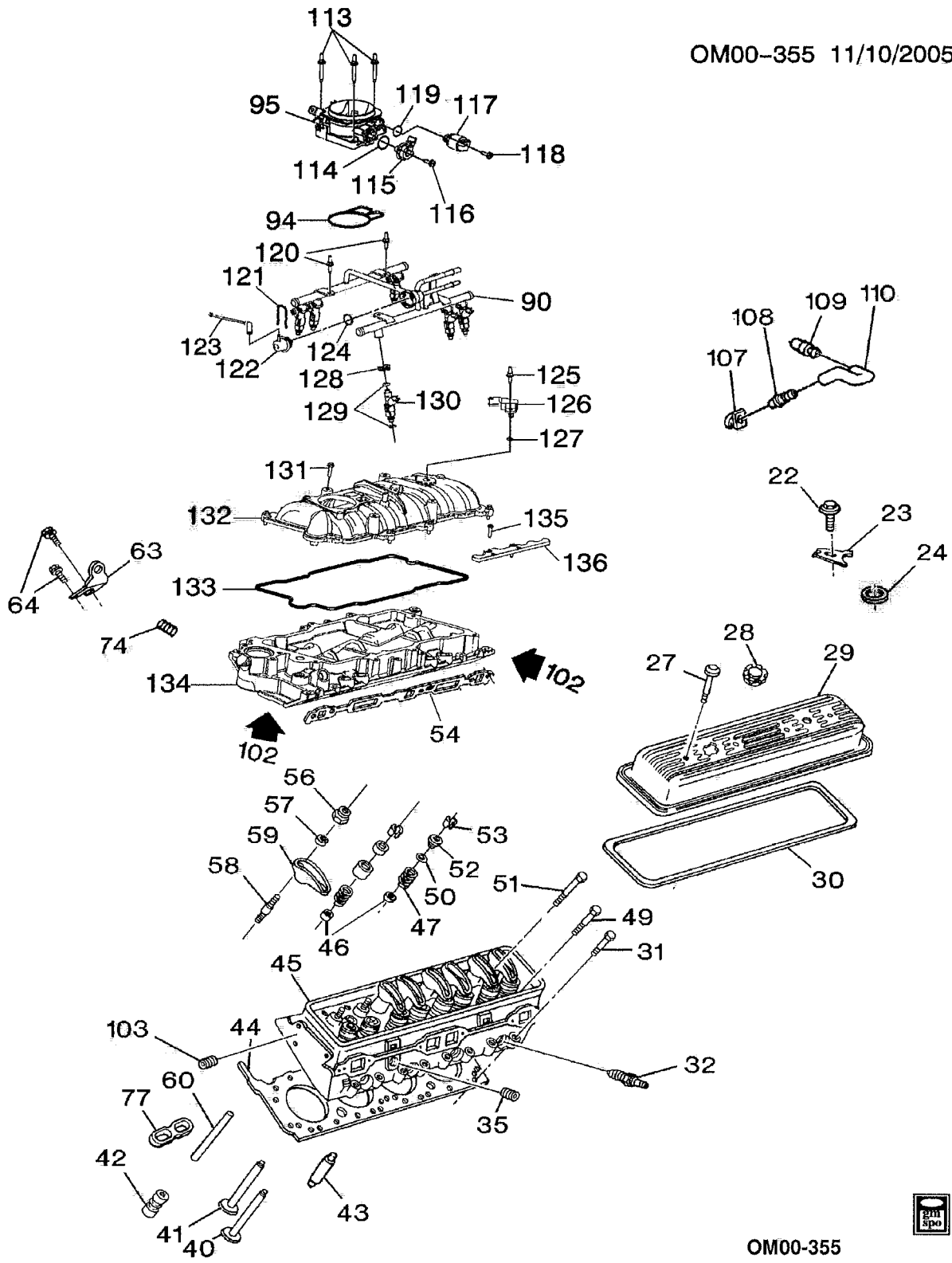
Variaton: 5.0 L

| Item | Part No. | Description                         | Qty. | Item | Part No. | Description                                          | Qty. |
|------|----------|-------------------------------------|------|------|----------|------------------------------------------------------|------|
| 2    | GM16519  | Retainer, valve lifter guide        | 1    | 21   | GM16402  | Cap, valve spring                                    | 16   |
| 3    | GM16528  | Bolt, valve lifter guide retainer   | 3    | 22   | GM16529  | Key, valve stem                                      | 16   |
| 4    | GM16547  | Pin, cylinder head locator          | 4    | 24   | GM16348  | Gasket, valve rocker arm cover                       | 2    |
| 5    | GM75100  | Gasket, cyl hd                      |      | 25   | GM16481  | Cover, valve rocker arm                              | LH   |
| 6    | GM75057  | Head, cyl                           | 2    | 26   | GM16427  | Bolt, valve rocker arm cover                         | 16   |
| 8    | GM16374  | Blt, cy. hd, med (7/16-14x3 1/16)   | 4    | 27   | GM16361  | Cap, Oil fill (97.5mm tube w/threaded cap) (incl 28) | 1    |
| 9    | GM16375  | Blt, cy. head, short (7/16 x 1 3/4) | 16   | 28   | -        | Seal, oll fil cap(o ring)(part of 28)                |      |
| 10   | GM16523  | Lifter, valve                       | 16   | 29   | -        | Spark plug See Group 1-12                            | 8    |
| 11   | GM16453  | Guide, valve lifter                 | 8    | 30   | -        | Not serviced                                         |      |
| 12   | GM16400  | Rod, valve push                     | 16   | 31   | -        | Not used                                             |      |
| 13   | -        | Arm, vlv rkr(part of 17)            |      | 32   | -        | Not used                                             |      |
| 14   | GM38918  | Stud, vlv rkr ball (.003 in. OS)    | 16   | 36   | GM75059  | Cover, vlv rkr arm                                   | RH   |
| 15   | -        | Ball, vlv rkr arm(part of 17)       |      | 37   | -        | Not used                                             |      |
| 16   | -        | Nut, vlv rkr arm(part of 17)        |      | 38   | -        | Not used                                             |      |
| 17   | GM16351  | Arm kit, valve rocker               | 16   | 39   | GM16456  | Valve, exhaust (std)                                 | 8    |
| 18   | GM16385  | Seal, intake valve stem oil         | 8    | 40   | GM75022  | Valve, int (std)                                     | 8    |
| 19   | GM16496  | Seal, exh vlv stem Oil              | 8    |      |          |                                                      |      |
| 20   | GM16386  | Spring, valve (w/o damper)          | 16   |      |          |                                                      |      |

## 2-2: Engine Head/Upper End, continued

Variaton: 5.7 L

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OM00-355



## 2-2: Engine Head/Upper End, continued

Variaton: 5.7 L

| Item | Part No. | Description                               | Qty. | Item | Part No. | Description         | Qty. |
|------|----------|-------------------------------------------|------|------|----------|---------------------|------|
| 22   | GM75039  | Bolt                                      | 1    | 63   | -        | Not Serviced        |      |
| 23   | -        | Clamp (See Group 1-10)                    | 1    | 64   | -        | Not Serviced        |      |
| 24   | GM16360  | Gasket, distributor                       | 1    | 74   | GM16533  | Plug, water outlet  | 1    |
| 27   | GM16427  | Bolt, valve rocker arm cover              | 8    | 77   | GM16453  | Guide, valve lifter | 8    |
| 28   | GM16361  | Cap, oil fil (97.5mm tube w/threaded cap) | 1    | 90   | -        | Not Used            |      |
| 29   | GM16481  | Cover, valve rocker arm                   | LH   | 94   | -        | Not Used            |      |
| 29   | GM16480  | Cover, valve rocker arm                   | RH   | 95   | -        | Not Used            |      |
| 30   | GM16348  | Gasket, valve rocker arm cover            | 2    | 102  | -        | See Group 1-19      |      |
| 31   | GM16375  | Bolt, cy. hd, short (7/16 x 1 3/4)        | 16   | 107  | -        | See Group 1-13      |      |
| 32   | -        | Spark plug (See Group 1-12)               | 8    | 108  | -        | See Group 1-13      |      |
| 35   | GM16542  | Plug, eng cool temp indr hole             | AR   | 109  | -        | See Group 1-13      |      |
| 40   | GM16401  | Valve, intake standard                    | 8    | 110  | -        | See Group 1-13      |      |
| 41   | GM16464  | Valve, exhaust standard                   | 8    | 113  | -        | Not Used            |      |
| 42   | GM16523  | Lifter, valve                             | 16   | 114  | -        | Not Used            |      |
| 43   | GM16547  | Pin, cylinder head locator                | 8    | 115  | -        | Not Used            |      |
| 44   | GM16353  | Gasket, cylinder head (60 kw)             | 2    | 116  | -        | Not Used            |      |
| 44   | GM85014  | Gskt, head (5.7L Turbo) (80/100 kW)       | 2    | 117  | -        | Not Used            |      |
| 45   | GM16450  | Head, cylinder (60 kw)                    | 2    | 118  | -        | Not Used            |      |
| 45   | GM85051  | Head, cyl. (5.7L Turbo) (80/100 kW)       | 2    | 119  | -        | Not Used            |      |
| 46   | GM16385  | Seal, intake valve stem oil               | 8    | 120  | -        | Not Used            |      |
| 47   | GM16386  | Spring, valve (w/o damper)                | 16   | 121  | -        | Not Used            |      |
| 49   | GM16374  | Blt, cy. hd, med (7/16-14x3 1/16)         | 4    | 122  | -        | Not Used            |      |
| 50   | GM16496  | Seal, exh vlv stem oil                    | 8    | 123  | -        | Not Used            |      |
| 51   | GM16373  | Bolt, cy. hd, lg (7/16-14x3 51/64)        | 14   | 124  | -        | Not Used            |      |
| 52   | GM16402  | Cap, valve spring                         | 16   | 125  | -        | See Group 1-13      |      |
| 53   | GM16529  | Key, valve stem                           | 32   | 126  | -        | See Group 1-13      |      |
| 54   | -        | See Group 1-19                            |      | 127  | -        | See Group 1-13      |      |
| 56   | GM16493  | Nut, valve rocker arm                     | 16   | 128  | -        | Not Used            |      |
| 57   | -        | Ball, vlv rkr arm(part of item #59)       |      | 129  | -        | Not Used            |      |
| 58   | GM38918  | Stud, vlv rkr ball (.003 in. OS)          | 16   | 130  | -        | Not Used            |      |
| 58   | GM16584  | Stud, valve rocker arm ball               | 16   | 131  | -        | See Group 1-19      |      |
| 59   | GM16351  | Arm kit, valve rocker                     | 16   | 132  | -        | See Group 1-19      |      |
| 60   | GM16400  | Rod, valve push                           | 16   | 133  | -        | See Group 1-19      |      |
|      |          |                                           |      | 134  | -        | See Group 1-19      |      |
|      |          |                                           |      | 135  | -        | See Group 1-19      |      |
|      |          |                                           |      | 136  | -        | See Group 1-19      |      |

# Notes



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