

**Parts Manual**

**Cat.# 90-88399001**

**Revised 09-12-2020**

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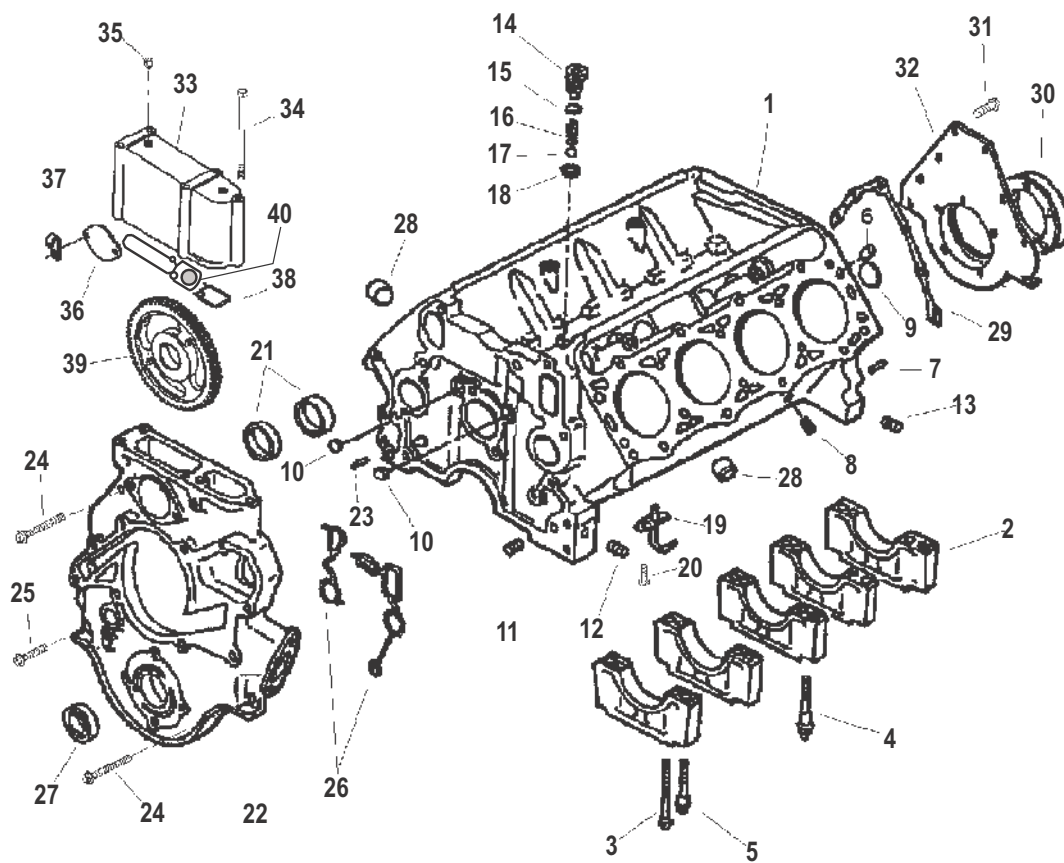
## Service and Support Material

**Cat.# 90-88399001**

## Service and Support Material

| Ref # | Part Class | Part Number | Description                               | Comments | Qty | Note |
|-------|------------|-------------|-------------------------------------------|----------|-----|------|
| -     | 0090       | 803737      | PARTS MANUAL D7.3L D-TRONIC BRAVO DIESEL  |          | 1   |      |
| -     | 0090       | 861179020   | OWNERS MANUAL D7.3L D-TRONIC BRAVO DIESEL |          | 1   |      |

## Cylinder Block



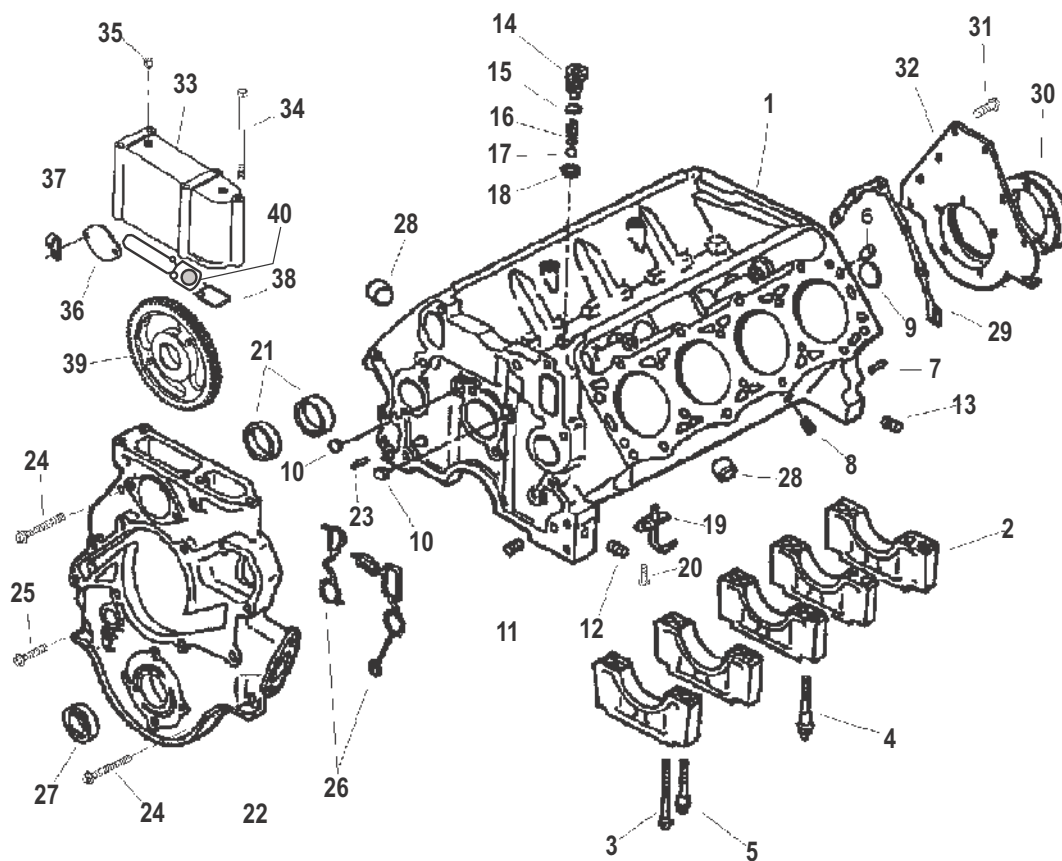
4277

## Cylinder Block

| Ref # | Part Class | Part Number | Description                             | Comments           | Qty | Note |
|-------|------------|-------------|-----------------------------------------|--------------------|-----|------|
| 1     | 0841       | 853040A1    | CYLINDER BLOCK ASSEMBLY                 |                    | 1   |      |
| 2     |            | NSS         | NOT SOLD SEPARATE Cap                   |                    | 5   |      |
| 3     | 0010       | 853051      | BOLT (.250-20 x 1.00)                   |                    | 9   |      |
| 4     | 0010       | 853038      | BOLT Stud                               |                    | 1   |      |
| 5     | 0010       | 853039      | BOLT Bearing Cap                        |                    | 10  |      |
| 6     | 0017       | 808110      | PIN Dowel Cylinder Head                 |                    | 4   |      |
| 7     | 0017       | 853081      | PIN (.375 x 1.00)                       |                    | 2   |      |
| 8     | 0019       | 853033      | PLUG (.250-18)                          |                    | 2   |      |
| 9     | 0019       | 853041      | PLUG CUP                                |                    | 7   |      |
| 10    | 0019       | 853032      | PLUG Cup (.500)                         |                    | 2   |      |
| 11    | 0022       | 808125      | PLUG (.125-27)                          |                    | 3   |      |
| 12    | 0019       | 853033      | PLUG (.250-18) Drain                    |                    | 4   |      |
| 13    | 0019       | 808123      | PLUG (.375-18) Drain                    |                    | 3   |      |
| 14    | 0019       | 853053      | PLUG Oil Bypass                         |                    | 1   |      |
| 15    | 0025       | 853054      | O-RING                                  |                    | 1   |      |
| 16    | 0024       | 853055      | SPRING                                  |                    | 1   |      |
| 17    | 0000       | 853056      | BALL                                    |                    | 1   |      |
| 18    | 0000       | 853057      | SEAT Ball                               |                    | 1   |      |
| 19    | 0022       | 853049      | TUBE Piston Cooling                     |                    | 8   |      |
| 20    | 0010       | 853050      | BOLT (M6 x 16)                          |                    | 8   |      |
| 21    | 0023       | 853029A1    | BUSHING KIT Camshaft                    |                    | 1   |      |
| 22    | 0000       | 853025      | COVER Front                             | [0L050117] & Below | 1   |      |
| 22    | 0000       | 864328      | COVER Front                             | [0L050118] & Up    | 1   |      |
| -     | 0017       | 853028      | PIN (.1875 x .625) Dowel                |                    | 4   |      |
| 23    | 0017       | 808083      | PIN (.1875 x .50) Dowel                 |                    | 2   |      |
| 24    | 0010       | 853026      | BOLT (65 mm) Front Cover                |                    | 2   |      |
| 25    | 0010       | 853027      | BOLT (40 mm) Front Cover                |                    | 3   |      |
| 26    | 0027       | 853030A1    | GASKET SET Front Cover                  | [0L050117] & Below | 1   | [1]  |
| 26    | 0027       | 864329      | GASKET SET Front Cover                  | [0L050118] & Up    | 1   | [1]  |
| 27    | 0026       | 853031A1    | SEAL Oil (Front Cover)                  |                    | 1   |      |
| 28    | 0022       | 853058      | TUBE Water Outlet                       |                    | 2   |      |
| 29    | 0092       | 809826      | RTV SILICONE (13 Ounce Cartridge) Black |                    | 1   | [1]  |
| 30    | 0026       | 853044A1    | SEAL Oil (Rear)                         |                    | 1   |      |
| 31    | 0010       | 853045      | BOLT                                    |                    | 8   |      |
| 32    | 0000       | 853046      | COVER Rear                              |                    | 1   |      |
| 33    | 0000       | 853390      | RESERVOIR Oil                           | (DESIGN I)         | 1   |      |
| 34    | 0010       | 853226      | SCREW (M8 x 100)                        |                    | 3   |      |
| 35    | 0019       | 853392      | PLUG                                    |                    | 2   |      |
| -     | 0025       | 853393      | O-RING                                  |                    | 1   |      |
| 36    |            | NSS         | NOT SOLD SEPARATE                       |                    | 1   |      |
| 37    | 0000       | 853394      | CLIP                                    |                    | 1   |      |
| 38    | 0027       | 853395      | GASKET                                  | (DESIGN I)         | 1   |      |
| 39    | 0043       | 853396      | GEAR                                    |                    | 1   |      |
| 40    | 0027       | 864321      | GASKET Oil Reservoir With Screen        | (DESIGN II)        | 1   |      |
| -     | 0027       | 853060A02   | GASKET SET                              |                    | 1   |      |

## Cylinder Block

## Cylinder Block



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**Cat.# 90-88399001**

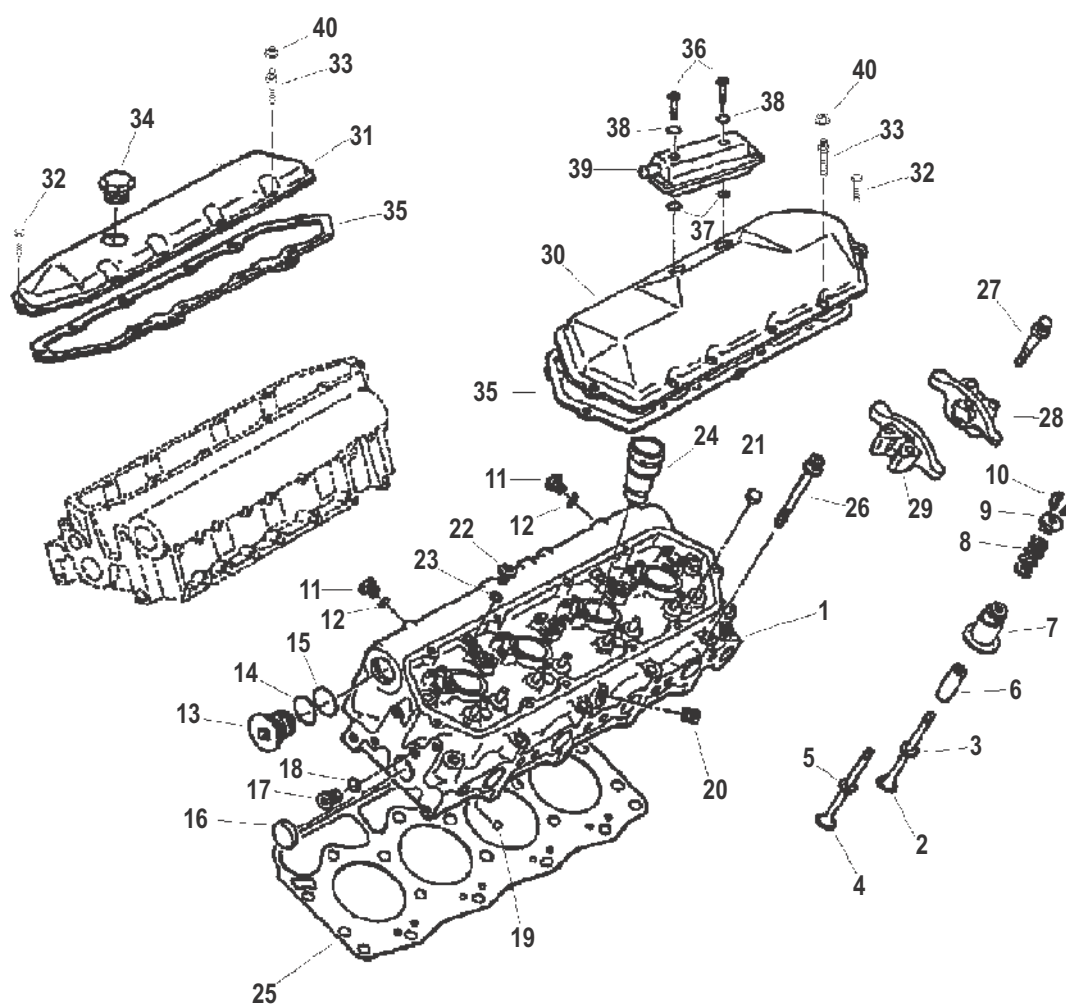
## Cylinder Block

| Ref # | Part Class | Part Number | Description       | Comments | Qty | Note |
|-------|------------|-------------|-------------------|----------|-----|------|
| -     | 0000       | 802763      | LONG BLOCK ENGINE |          | 1   |      |

**PART NOTES:**

[1] - Part Included In Gasket Set 853060A 1.

## Cylinder Head and Rocker Covers



4278

## Cylinder Head and Rocker Covers

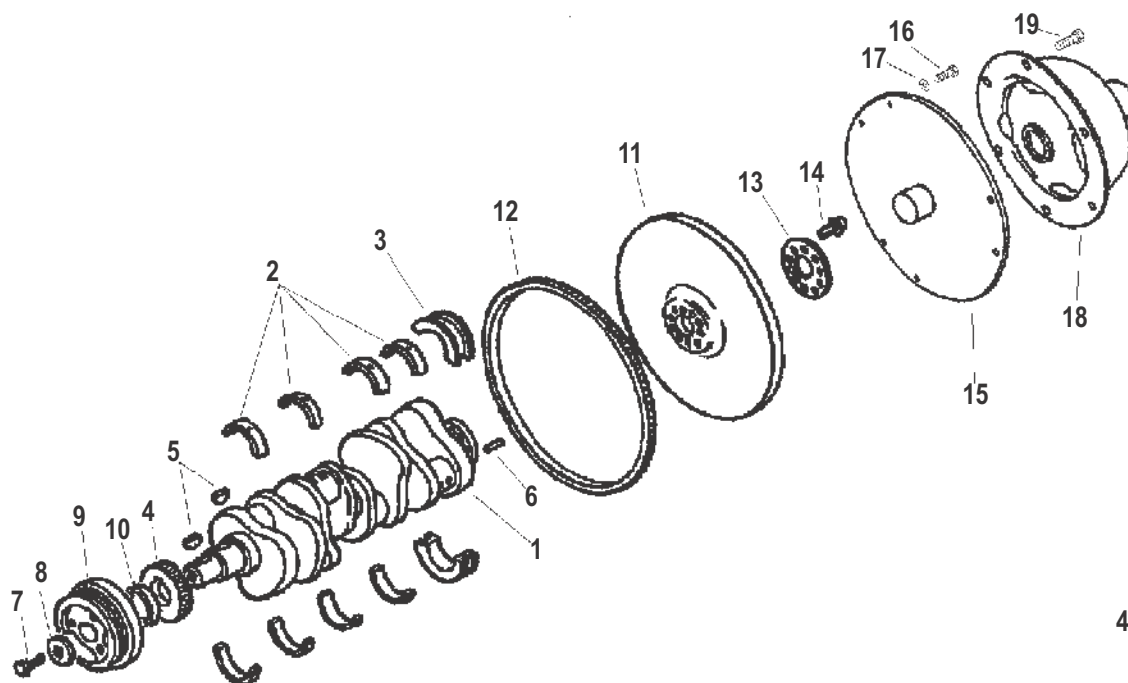
| Ref # | Part Class | Part Number | Description                   | Comments       | Qty | Note |
|-------|------------|-------------|-------------------------------|----------------|-----|------|
| 1     | 0938       | 853124A1    | CYLINDER HEAD ASSEMBLY        |                | 2   |      |
| 2     | 0000       | 853117      | VALVE Intake                  |                | 8   |      |
| 3     | 0000       | 853118      | INSERT Intake                 |                | 8   |      |
| 4     | 0000       | 853125      | VALVE Exhaust                 |                | 8   |      |
| 5     | 0000       | 853119      | INSERT Exhaust                |                | 8   |      |
| 6     | 0000       | 853116      | GUIDE Valve                   |                | 16  |      |
| 7     | 0026       | 853115      | SEAL Valve                    |                | 16  | [1]  |
| 8     | 0024       | 808116      | SPRING Valve (With Damper)    |                | 16  |      |
| 9     | 0000       | 853114      | ROTATOR Valve                 |                | 16  |      |
| 10    | 0028       | 853113      | KEY                           |                | 16  |      |
| 11    | 0019       | 879726      | PLUG (.500) Pipe              |                | 4   |      |
| 12    | 0025       | 853134      | O-RING                        |                | 4   |      |
| 13    | 0019       | 879726      | PLUG (.500) With O-Ring       |                | 4   |      |
| 14    | 0025       | 853131      | RING Back-Up                  |                | 4   |      |
| 15    | 0025       | 853132      | O-RING                        |                | 4   |      |
| 16    | 0019       | 853041      | PLUG CUP                      |                | 4   |      |
| 17    | 0019       | 879728      | PLUG With O-Ring              |                | 4   |      |
| 18    | 0025       | 853129      | O-RING                        |                | 4   |      |
| 19    | 0030       | 808082      | BALL (.4062 Inch)             |                | 8   |      |
| 20    | 0019       | 808126      | PLUG (.500) Pipe              |                | 4   |      |
| 21    | 0019       | 853121      | PLUG Cup (.8125)              |                | 8   |      |
| 22    | 0019       | 879729      | PLUG With O-Ring              |                | 4   |      |
| 23    | 0025       | 853135      | O-RING                        |                | 4   |      |
| 24    | 0000       | 853120      | SLEEVE Injector               |                | 8   |      |
| 25    | 0027       | 853139A1    | GASKET SET Cylinder Head      |                | 2   | [1]  |
| 26    | 0010       | 853123      | BOLT Cylinder Head            |                | 36  |      |
| 27    | 0010       | 853110      | SCREW (M8 x 50)               |                | 32  |      |
| 28    | 0000       | 853111      | LEVER Intake                  |                | 8   |      |
| 29    | 0000       | 853112      | LEVER Exhaust                 |                | 8   |      |
| 30    | 0000       | 853107      | COVER Starboard (With Baffle) |                | 1   |      |
| 31    | 0000       | 853101      | COVER Port                    |                | 1   |      |
| 32    | 0010       | 853092      | BOLT Cover                    |                | 10  |      |
| 33    | 0016       | 853103      | BOLT Stud                     |                | 10  |      |
| 34    | 0036       | 853100      | CAP Cover (With Seal)         |                | 1   |      |
| 35    | 0027       | 853104      | GASKET Rocker Cover           | Dual Connect   | 2   |      |
| 35    | 0027       | 898271      | GASKET Rocker Cover           | Single Connect | 2   |      |
| 36    | 0010       | 853105      | SCREW (M6 x 80)               |                | 2   |      |
| 37    | 0025       | 853138      | O-RING (Inner)                |                | 2   |      |
| 38    | 0025       | 853136      | O-RING (Outer)                |                | 2   |      |
| 39    | 0000       | 853137T     | BREATHER                      |                | 1   |      |
| 40    | 0011       | 853468      | NUT (M8)                      |                | 10  |      |
| -     | 0025       | 853144      | O-RING                        |                |     | [1]  |
| -     | 0027       | 853139A1    | GASKET SET                    |                | 1   |      |

## PART NOTES:

[1] - Part Included In Gasket Set 853140A 1.

## Cylinder Head and Rocker Covers

## Crankshaft Flywheel, and Related Parts

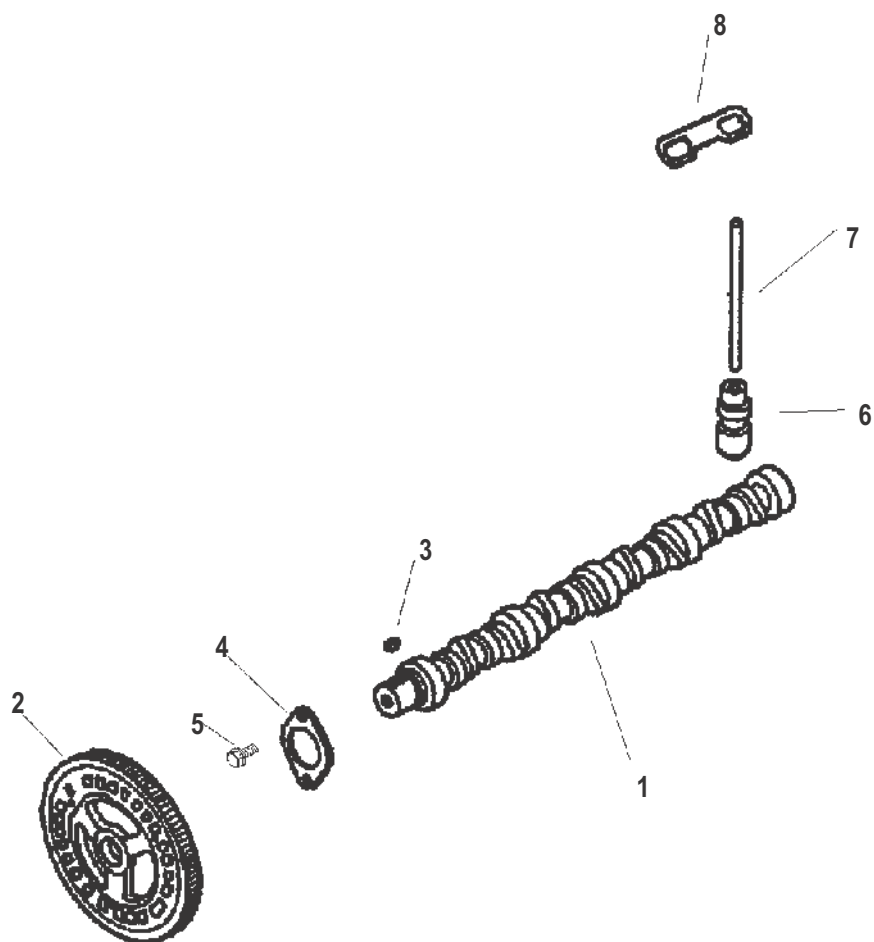


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## Crankshaft Flywheel, and Related Parts

| Ref # | Part Class | Part Number | Description                  | Comments                           | Qty | Note |
|-------|------------|-------------|------------------------------|------------------------------------|-----|------|
| 1     | 0429       | 879834A1    | CRANKSHAFT ASSEMBLY          | (INCLUDES CONNECTING ROD BEARINGS) | 1   |      |
| 2     | 0023       | 853067      | BEARING Main (Standard)      |                                    | 4   |      |
| 2     | 0023       | 853068      | BEARING Main (.010)          |                                    | AR  |      |
| 2     | 0023       | 853069      | BEARING Main (.020)          |                                    | AR  |      |
| 2     | 0023       | 853070T     | BEARING Main (.030)          |                                    | AR  |      |
| 3     | 0023       | 853071      | BEARING Rear Main (Standard) |                                    | 1   |      |
| 3     | 0023       | 853072      | BEARING Rear Main (.010)     |                                    | AR  |      |
| 3     | 0023       | 853073      | BEARING Rear Main (.020)     |                                    | AR  |      |
| 3     | 0023       | 853074      | BEARING Rear Main (.030)     |                                    | AR  |      |
| 4     | 0043       | 853065      | GEAR Crankshaft              |                                    | 1   |      |
| 5     | 0028       | 853066      | KEY Crankshaft               |                                    | 2   |      |
| 6     | 0017       | 853081      | PIN (.375 x 1.00)            |                                    | 1   |      |
| 7     | 0010       | 853061      | BOLT (M16 x 60)              |                                    | 1   |      |
| 8     | 0012       | 853062      | WASHER Crankshaft            |                                    | 1   |      |
| 9     | 0000       | 853063      | DAMPER ASSEMBLY              |                                    | 1   |      |
| 10    | 0023       | 853064      | SLEEVE Front Oil Seal Wear   |                                    | 1   |      |
| 11    | 0222       | 862753A1    | FLYWHEEL ASSEMBLY            |                                    | 1   |      |
| 12    | 0043       | 853075      | GEAR Flywheel Ring           |                                    | 1   |      |
| 13    | 0000       | 853079      | RING Reinforcement           |                                    | 1   |      |
| 14    | 0010       | 853080      | BOLT                         |                                    | 10  |      |
| 15    | 0000       | 853274T     | COUPLER PLATE                |                                    | 1   |      |
| 16    | 0010       | 802773      | SCREW (.312-18 x 1.250)      |                                    | 6   |      |
| 17    | 0012       | 4002317     | WASHER (8.90 X 17.0 X 1.9SS) |                                    | 6   |      |
| 18    | 0000       | 805684A2    | COUPLING                     |                                    | 1   |      |
| 19    | 0010       | 47461       | SCREW (.437-14 x 1.00)       |                                    | 6   |      |
| 19    | 0010       | 40001192    | SCREW (M10 x 25)             |                                    | 6   |      |

## Camshaft and Related Parts

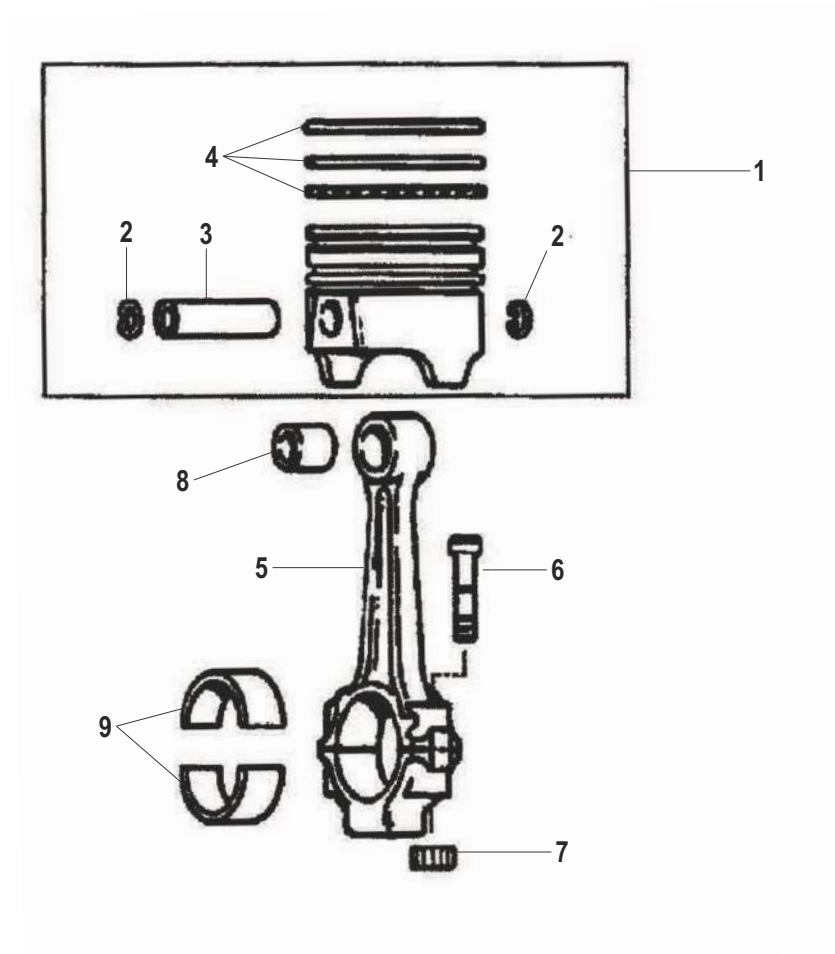


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**Camshaft and Related Parts**

| Ref # | Part Class | Part Number | Description              | Comments | Qty | Note |
|-------|------------|-------------|--------------------------|----------|-----|------|
| 1     | 0431       | 853004A1    | CAMSHAFT ASSEMBLY        |          | 1   |      |
| 2     | 0043       | 853001      | GEAR (98 Teeth) Camshaft |          | 1   |      |
| 3     | 0028       | 808120      | KEY                      |          | 1   |      |
| 4     | 0000       | 853002      | PLATE Thrust             |          | 1   |      |
| 5     | 0010       | 853003      | SCREW (M8 x 20)          |          | 2   |      |
| 6     | 0000       | 853005      | FOLLOWER Cam             |          | 16  |      |
| 7     | 0000       | 853006      | ROD Push                 |          | 16  |      |
| 8     | 0000       | 853042      | GUIDE Cam Follower       |          | 8   |      |

## Connecting Rod Piston, and Related Parts

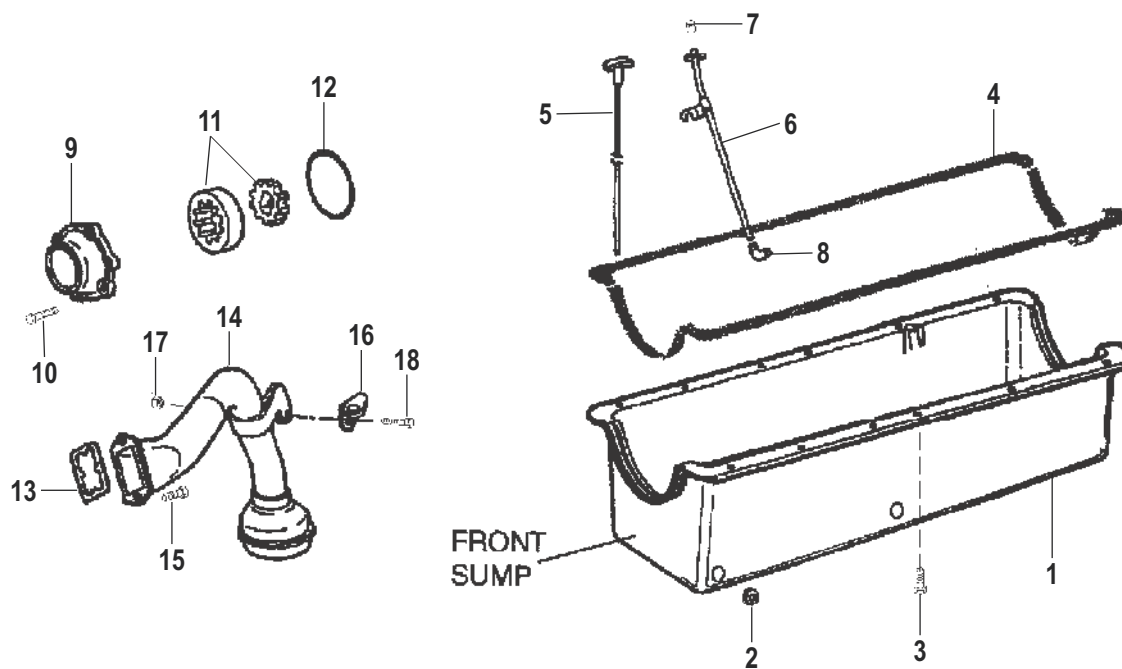


4313

## Connecting Rod Piston, and Related Parts

| Ref # | Part Class | Part Number | Description                               | Comments | Qty | Note |
|-------|------------|-------------|-------------------------------------------|----------|-----|------|
| 1     | 0737       | 802914A02   | PISTON ASSEMBLY (Standard)                |          | 8   |      |
| 1     | 0737       | 802913A1    | PISTON ASSEMBLY (.020)                    |          | AR  |      |
| 1     | 0737       | 802917A1    | PISTON ASSEMBLY (.030)                    |          | AR  |      |
| 2     | 0000       | 853012      | RING Retaining                            |          | 16  |      |
| 3     | 0000       | 853011      | PIN Piston                                |          | 8   |      |
| 4     | 0039       | 853007A1    | RING SET Piston (Standard)                |          | 8   |      |
| 4     | 0039       | 853008A1    | RING SET Piston (.010)                    |          | AR  |      |
| 4     | 0039       | 853009A1    | RING SET Piston (.020)                    |          | AR  |      |
| 4     | 0039       | 853010A1    | RING SET Piston (.030)                    |          | AR  |      |
| 5     | 0614       | 853018A1    | CONNECTING ROD                            |          | 8   |      |
| 6     | 0010       | 853023      | BOLT                                      |          | 16  |      |
| 7     | 0011       | 853024      | NUT                                       |          | 16  |      |
| 8     | 0023       | 853017      | BEARING Con Rod (Piston End)              |          | 8   |      |
| 9     | 0023       | 853019      | BEARING Con Rod (Crank End)<br>(Standard) |          | 8   |      |
| 9     | 0023       | 853020      | BEARING Con Rod (Crank End)<br>(.010)     |          | AR  |      |
| 9     | 0023       | 853021      | BEARING Con Rod (Crank End)<br>(.020)     |          | AR  |      |
| 9     | 0023       | 853022T     | BEARING Con Rod (Crank End)<br>(.030)     |          | AR  |      |

## Oil Pan and Oil Pump

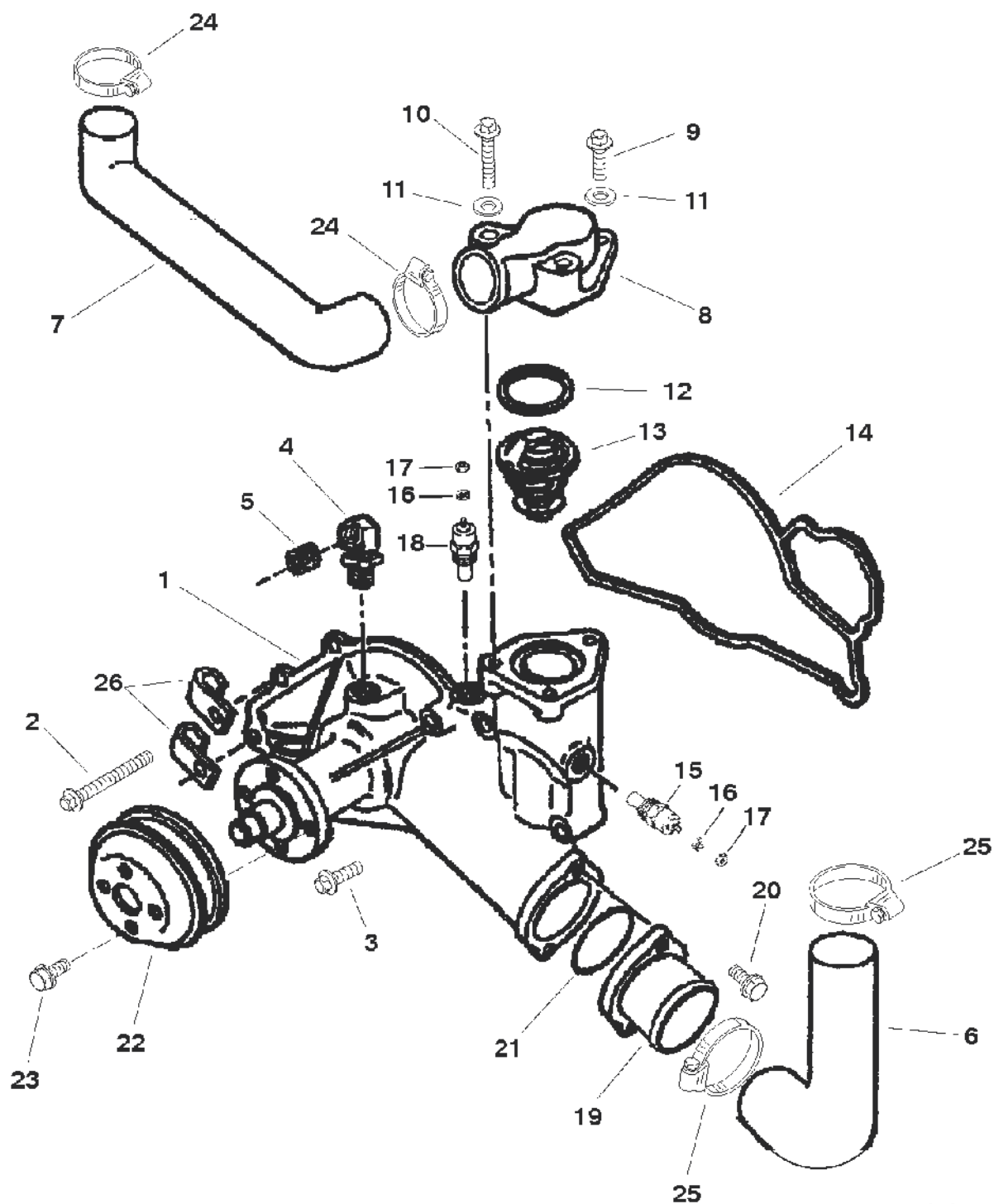


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## Oil Pan and Oil Pump

| Ref # | Part Class | Part Number | Description                             | Comments           | Qty | Note |
|-------|------------|-------------|-----------------------------------------|--------------------|-----|------|
| 1     | 0000       | 853098      | PAN ASSEMBLY Oil                        | [0L677802] & Below | 1   |      |
| 1     | 0000       | 863377A2    | PAN ASSEMBLY Oil                        | [0L677803] & Up    | 1   |      |
| 2     | 0019       | 853099      | PLUG (.250) Drain                       | [0L677802] & Below | 1   |      |
| 2     | 0022       | 73379       | PLUG (.250-18) Drain                    | [0L677803] & Up    | 1   |      |
| 3     | 0010       | 853466      | SCREW (M8 x 20) Oil Pan                 | [0L677802] & Below | 12  |      |
| 3     | 0010       | 802927      | SCREW Oil Pan                           | [0L677803] & Up    | 12  |      |
| 4     | 0092       | 809826      | RTV SILICONE (13 Ounce Cartridge) Black |                    | 1   |      |
| 5     | 0000       | 853093      | DIPSTICK                                |                    | 1   |      |
| 6     | 0032       | 853094      | TUBE Dipstick                           | [0L677802] & Below | 2   |      |
| 6     | 0000       | 864495      | TUBE Dipstick                           | [0L677803] & Up    | 2   |      |
| 7     | 0036       | 853095      | CAP Dipstick Tube                       | [0L677802] & Below | 1   |      |
| 7     | 0000       | 861982      | CAP Dipstick Tube                       | [0L677803] & Up    | 1   |      |
| 8     | 0022       | 853096      | FITTING Elbow (90 Degree)               |                    | 2   |      |
| 9     | 0000       | 853083      | HOUSING Oil Pump                        |                    | 1   |      |
| 10    | 0010       | 853084      | BOLT (M8 x 30)                          |                    | 4   |      |
| 11    | 0000       | 853085T     | GEROTOR                                 |                    | 1   |      |
| 12    | 0027       | 853086      | GASKET                                  |                    | 1   |      |
| 13    | 0027       | 853087      | GASKET                                  |                    | 1   |      |
| 14    | 0032       | 853088      | TUBE Oil Pick-Up                        |                    | 1   |      |
| 15    | 0010       | 853242      | SCREW                                   |                    | 2   |      |
| 16    | 0000       | 853090      | BRACKET                                 |                    | 1   |      |
| 17    | 0011       | 853468      | NUT (M8)                                |                    | 1   |      |
| 18    | 0010       | 853092      | BOLT                                    |                    | 1   |      |

## Water Pump



4349

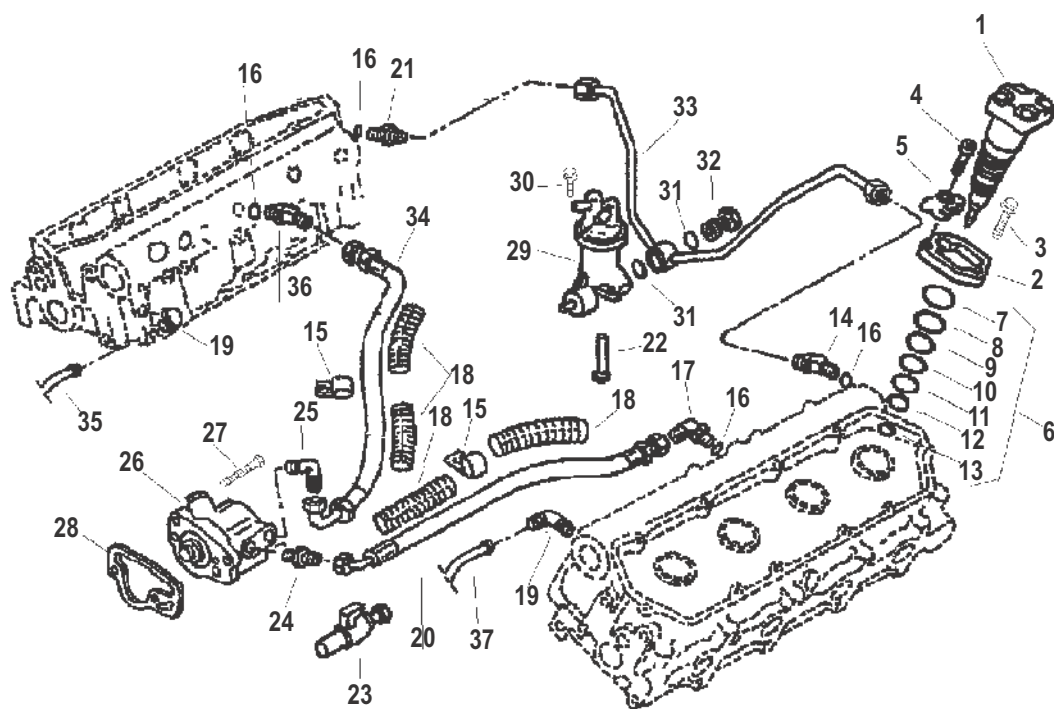
## Water Pump

| Ref # | Part Class | Part Number | Description                               | Comments | Qty | Note |
|-------|------------|-------------|-------------------------------------------|----------|-----|------|
| 1     | 0000       | 853224T     | PUMP Water                                |          | 1   |      |
| 2     | 0010       | 853226      | SCREW (M8 x 100)                          |          | 3   |      |
| 3     | 0010       | 853227      | SCREW (M8 x 30)                           |          | 6   |      |
| 4     | 0025       | 821747      | O-RING                                    |          | 1   |      |
| 5     | 0019       | 853228      | PLUG                                      |          | 1   |      |
| 6     | 0032       | 853229      | HOSE Water Pump to Heat Exchanger         |          | 1   |      |
| 7     | 0032       | 853231      | HOSE Thermostat Housing to Heat Exchanger |          | 1   |      |
| 8     | 0000       | 853208      | HOUSING Thermostat                        |          | 1   |      |
| 9     | 0010       | 802783      | SCREW (M6 x 25)                           |          | 1   |      |
| 10    | 0010       | 853210      | SCREW (M6 x 45)                           |          | 2   |      |
| 11    |            | NLA         | No Longer Available                       |          | 3   |      |
| 12    | 0026       | 853212      | SEAL                                      |          | 1   | [1]  |
| 13    | 0000       | 853213      | THERMOSTAT                                |          | 1   |      |
| 14    | 0027       | 853214      | GASKET                                    |          | 1   |      |
| 15    | 0000       | 806490T     | SENDER Water Temperature (Single Station) |          | 1   |      |
| 15    | 0000       | 49734       | SENDER Water Temperature (Dual Station)   |          | OPT |      |
| 16    | 0013       | 26996       | LOCKWASHER (#10) Stainless Steel          |          | 1   |      |
| 17    | 0011       | 68219       | NUT (#10-32) Stainless Steel              |          | 1   |      |
| 18    | 0087       | 806028      | SWITCH Temperature                        |          | 1   |      |
| 19    | 0022       | 853218      | INLET Water Pump                          |          | 1   |      |
| 20    | 0010       | 853219      | SCREW (M8 x 25)                           |          | 2   |      |
| 21    | 0025       | 33465       | O-RING                                    |          | 1   |      |
| 22    | 0000       | 853221      | PULLEY Water Pump                         |          | 1   |      |
| 23    | 0010       | 853466      | SCREW (M8 x 20)                           |          | 4   |      |
| 24    | 0054       | 815504228   | CLAMP Worm Gear                           |          | 2   |      |
| 25    | 0054       | 815504232   | CLAMP Worm Gear (2.50 Diameter)           |          | 2   |      |
| 26    | 0054       | 853223      | CLAMP                                     |          | 2   |      |

## PART NOTES:

[1] - Part Included In Gasket Set 853060A 1.

## Injector Pressure and Fuel Pump

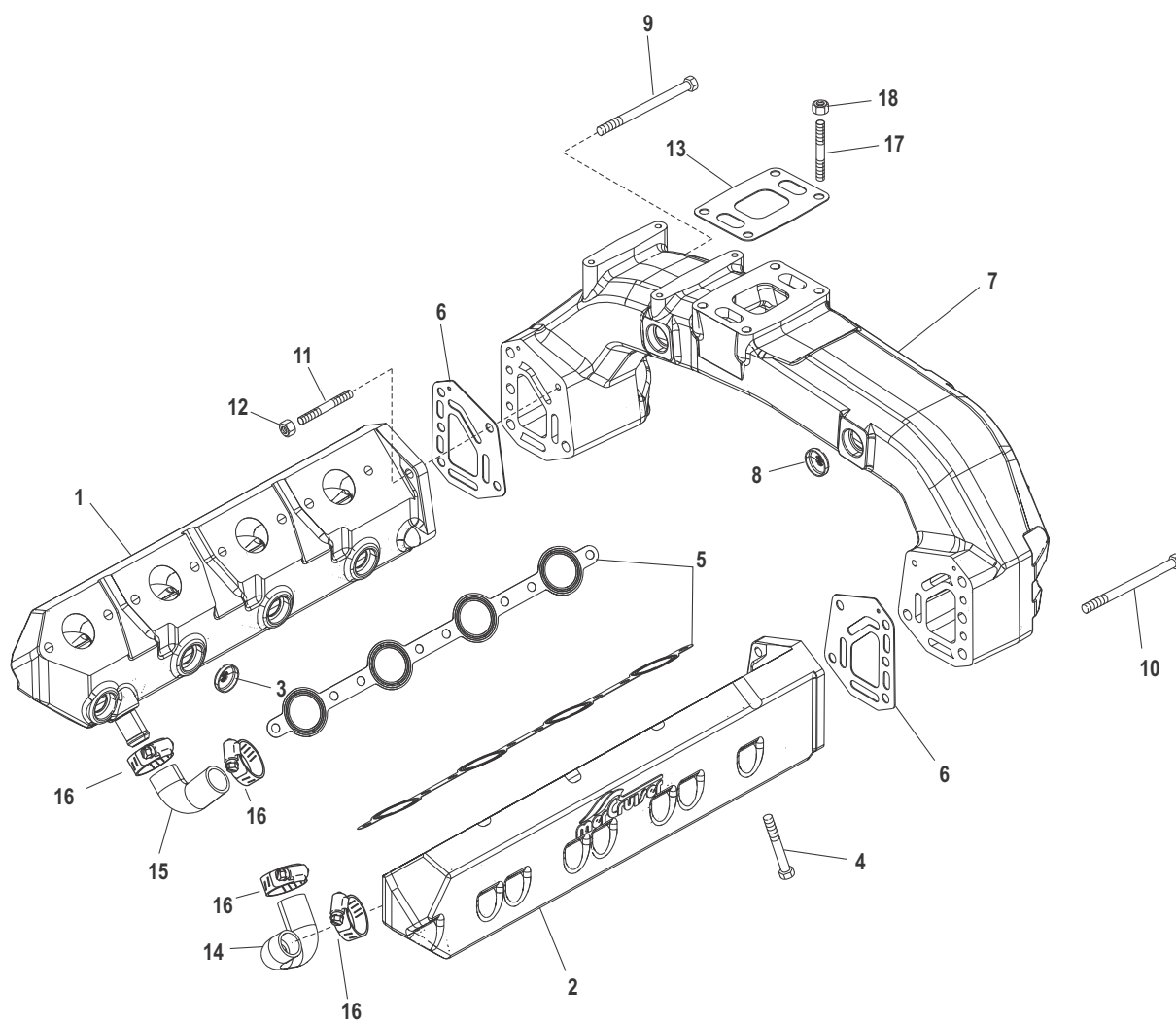


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## Injector Pressure and Fuel Pump

| Ref # | Part Class | Part Number | Description                              | Comments | Qty | Note |
|-------|------------|-------------|------------------------------------------|----------|-----|------|
| 1     | 0000       | 853280T     | INJECTOR                                 |          | 8   |      |
| 2     |            | NSS         | NOT SOLD SEPARATE Injector               |          | 8   |      |
| 3     | 0010       | 853281      | SCREW Injector Hold Down                 |          | 8   |      |
| 3     | 0010       | 853282      | SCREW Injector Hold Down (Shoulder)      |          | 8   |      |
| 4     | 0010       | 853278      | SCREW (M6 x 35)                          |          | 8   |      |
| 5     | 0000       | 853279      | SPOUT                                    |          | 8   |      |
| 6     | 0000       | 853428A1    | SEAL SET Injector                        |          | 8   |      |
| 7     | 0025       | 853283      | RING Injector Back-Up                    |          | 8   |      |
| 8     | 0025       | 853284      | RING Injector Upper Cushion              |          | 8   |      |
| 9     | 0026       | 853285      | SEAL Injector Upper                      |          | 8   |      |
| 10    | 0026       | 853286      | SEAL Injector Middle                     |          | 8   |      |
| 11    | 0025       | 853284      | RING Injector Middle Cushion             |          | 8   |      |
| 12    | 0026       | 853288      | SEAL Injector Lower                      |          | 8   |      |
| 13    | 0027       | 853289      | GASKET Injector                          |          | 8   |      |
| 14    | 0022       | 853290      | CONNECTOR (90 Degree)                    |          | 1   |      |
| 15    | 0054       | 853368      | CLAMP                                    |          | 2   |      |
| 16    | 0025       | 853134      | O-RING                                   |          | 4   |      |
| 17    | 0022       | 853295      | FITTING Elbow (90 Degree)                |          | 1   |      |
| 18    | 0032       | 802774      | CONDUIT                                  |          | 1   |      |
| 19    | 0022       | 853297      | FITTING Elbow (45 Degree)                |          | 2   |      |
| 20    | 0032       | 864334      | HOSE ASSEMBLY High Pressure Oil          |          | 1   |      |
| 21    | 0022       | 853150      | CONNECTOR                                |          | 1   |      |
| 22    | 0000       | 853205      | TAPPET                                   |          | 1   |      |
| 23    | 0000       | 853102A02   | REGULATOR ASSEMBLY Injection Oil Control |          | 1   |      |
| 24    |            | NSS         | NOT SOLD SEPARATE Connector              |          | 1   |      |
| 25    |            | NSS         | NOT SOLD SEPARATE Elbow                  |          | 1   |      |
| 26    | 0000       | 853142      | PUMP                                     |          | 1   |      |
| 27    | 0010       | 853255      | SCREW (50 mm)                            |          | 1   |      |
| 27    | 0010       | 853247      | SCREW (70 mm)                            |          | 1   |      |
| 28    | 0027       | 853267      | GASKET                                   |          | 1   |      |
| 29    | 0000       | 853361      | PUMP                                     |          | 1   |      |
| 30    | 0010       | 853227      | SCREW (M8 x 30)                          |          | 2   |      |
| 31    | 0027       | 853362      | GASKET                                   |          | 2   |      |
| 32    | 0010       | 853363      | SCREW                                    |          | 1   |      |
| 33    | 0032       | 853364      | TUBE Fuel Supply                         |          | 1   |      |
| 34    | 0032       | 864334      | HOSE ASSEMBLY High Pressure Oil          |          | 1   |      |
| 35    | 0032       | 853366      | HOSE To Fuel Pressure Regulator          |          | 1   |      |
| 36    | 0022       | 864335      | FITTING                                  |          | 1   |      |
| 37    | 0032       | 853430      | HOSE To Fuel Pressure Regulator          |          | 1   |      |

## Exhaust Manifold

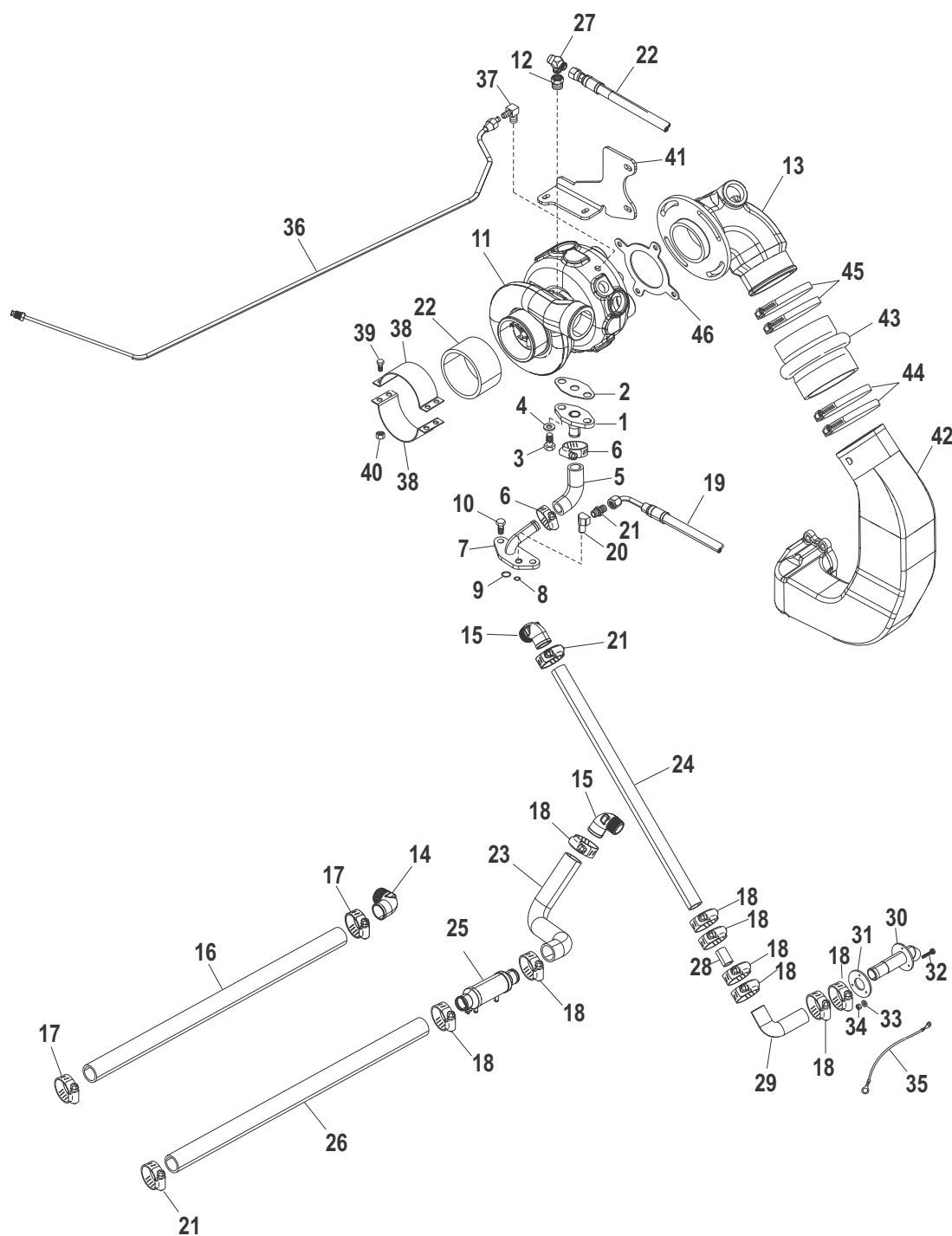


17943

## Exhaust Manifold

| Ref # | Part Class | Part Number | Description                         | Comments | Qty | Note |
|-------|------------|-------------|-------------------------------------|----------|-----|------|
| 1     | 0000       | 853145T1    | MANIFOLD ASSEMBLY Exhaust Starboard |          | 1   |      |
| 2     | 0000       | 853148T1    | MANIFOLD ASSEMBLY Exhaust Port      |          | 1   |      |
| -     | 0019       | 805921      | PLUG (1.25 Inch)                    |          | 14  |      |
| 3     | 0000       | 853146      | TUBE Hose Connector                 |          | 2   |      |
| 4     | 0010       | 853147      | SCREW (M10 x 90)                    |          | 16  |      |
| 5     | 0027       | 853151      | GASKET Exhaust Manifold             |          | 2   |      |
| 6     | 0027       | 853152      | GASKET Exhaust (Rear)               |          | 2   |      |
| 7     | 0000       | 853153A1    | MANIFOLD ASSEMBLY Rear              |          | 1   |      |
| 8     | 0019       | 805921      | PLUG (1.25 Inch)                    |          | AR  |      |
| 9     | 0010       | 853155      | SCREW (M10 x 140)                   |          | 4   |      |
| 10    | 0010       | 853473      | SCREW (M10 x 110)                   |          | 4   |      |
| 11    | 0016       | 802780      | STUD (M10 x 50)                     |          | 2   |      |
| 12    | 0011       | 853447      | NUT (M10)                           |          | 2   |      |
| 13    | 0027       | 853157      | GASKET Turbocharger                 |          | 1   |      |
| 14    | 0032       | 898419      | HOSE                                |          | 1   |      |
| 15    | 0032       | 853179      | HOSE                                |          | 1   |      |
| 16    | 0054       | 815504216   | CLAMP Worm Gear (1.56 Diameter)     |          | 4   |      |
| 17    | 0016       | 802780      | STUD (M10 x 50)                     |          | 4   |      |
| 18    | 0011       | 853447      | NUT (M10)                           |          | 4   |      |

## Turbocharger



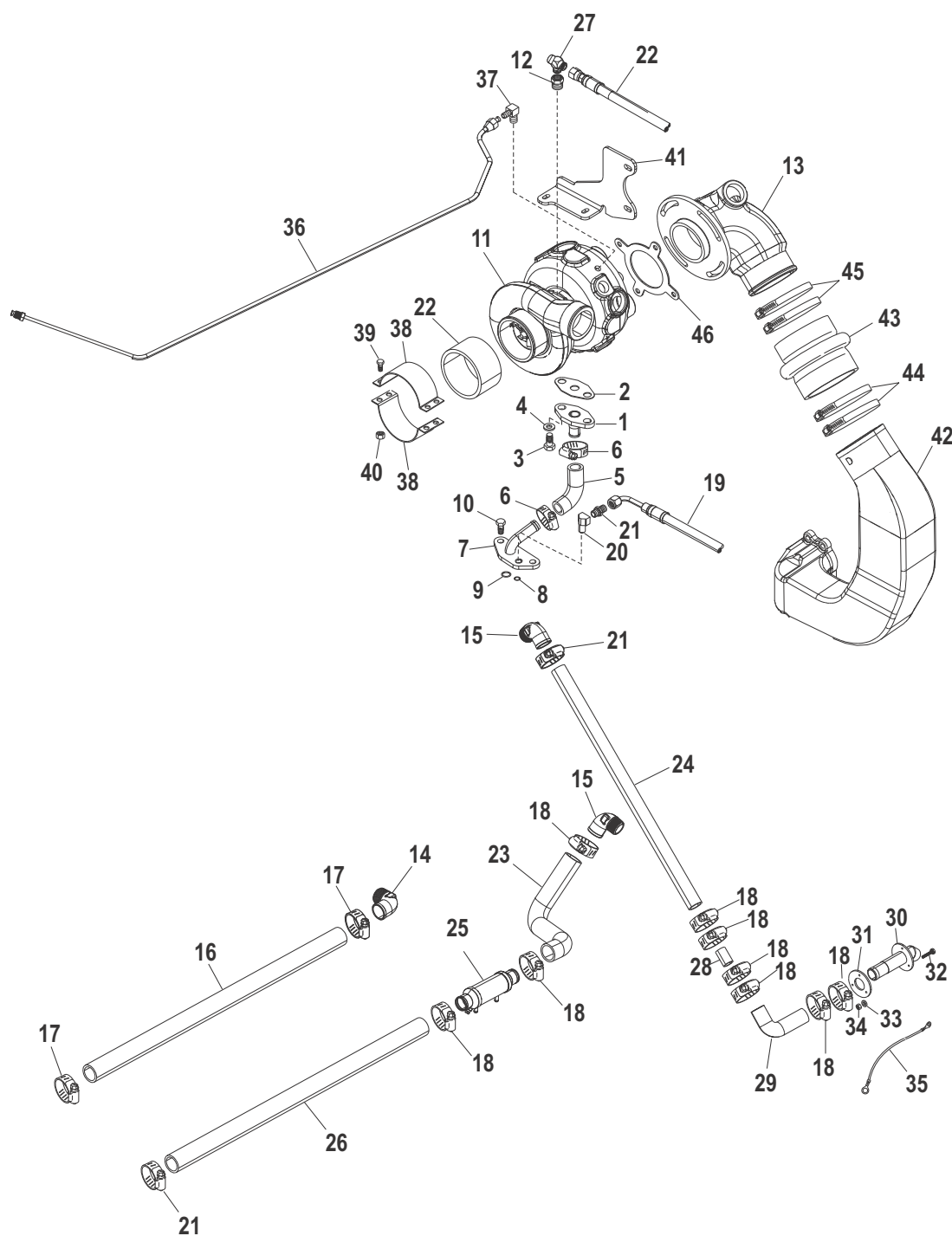
17944

## Turbocharger

| Ref # | Part Class | Part Number | Description                                    | Comments | Qty | Note |
|-------|------------|-------------|------------------------------------------------|----------|-----|------|
| 1     | 0000       | 853158T     | HOUSING Worm Gear                              |          | 1   |      |
| 2     | 0027       | 805842      | GASKET                                         |          | 1   |      |
| 3     | 0010       | 34352       | SCREW (.375-24 x .875)                         |          | 2   |      |
| 4     | 0012       | 34931       | WASHER (.406 x .734 x .063)<br>Stainless Steel |          | 2   |      |
| 5     | 0032       | 853477      | HOSE Power Steering Cooler To<br>Exhaust Elbow |          | 1   |      |
| 6     | 0054       | 815504210   | CLAMP Worm Gear                                |          | 2   |      |
| 7     | 0032       | 853162      | PIPE Power Steering                            |          | 1   |      |
| 8     | 0025       | 853159      | O-RING                                         |          | 1   |      |
| 9     | 0025       | 853160      | O-RING                                         |          | 1   |      |
| 10    | 0010       | 853466      | SCREW (M8 x 20)                                |          | 1   |      |
| 11    | 0000       | 853164T     | TURBOCHARGER                                   |          | 1   |      |
| 12    | 0022       | 48556       | BUSHING Reducer (.250 To .125)                 |          | 1   |      |
| 13    | 0000       | 853167A1    | ELBOW ASSEMBLY Exhaust                         |          | 1   |      |
| 14    | 0022       | 805846      | ELBOW (1 NPT x 1.25 Hose Bib)                  |          | 1   |      |
| 15    | 0022       | 853168      | ELBOW (1.25 NPT x 1.50 Hose Bib)               |          | 2   |      |
| 16    | 0032       | 853169      | HOSE                                           |          | 1   |      |
| 17    | 0054       | 853170      | CLAMP (8.00 Inches)                            |          | 2   |      |
| 18    | 0054       | 853172      | CLAMP                                          |          | 11  |      |
| 19    | 0032       | 805839      | HOSE                                           |          | 1   |      |
| 20    | 0022       | 853173      | ELBOW                                          |          | 1   |      |
| 21    | 0022       | 87207       | CONNECTOR                                      |          | 1   |      |
| 22    | 0032       | 802721      | HOSE                                           |          | 1   |      |
| 23    | 0032       | 862301      | HOSE Coolant                                   |          | 1   |      |
| 24    | 0032       | 853475      | HOSE                                           |          | 1   |      |
| 25    | 0000       | 853476      | COOLER Power Steering                          |          | 1   |      |
| 26    | 0022       | 853175      | TEE                                            |          | 1   |      |
| 27    | 0022       | 853175      | TEE                                            |          | 1   |      |
| 28    | 0022       | 853478      | COUPLING                                       |          | 1   |      |
| 29    | 0032       | 862265      | HOSE Coolant                                   |          | 1   |      |
| 30    | 0022       | 802928      | FITTING Thru-Hull                              |          | 1   |      |
| 31    | 0000       | 802929      | FLANGE Clamping                                |          | 1   |      |
| 32    | 0010       | 853479      | SCREW (#10-32 x 3.00)                          |          | 3   |      |
| 33    | 0012       | 853482      | WASHER                                         |          | 3   |      |
| 34    | 0011       | 853480      | LOCKNUT (#10-32)                               |          | 3   |      |
| 35    | 0084       | 853484      | WIRE                                           |          | 1   |      |
| 36    | 0022       | 853276      | TUBE                                           |          | 1   |      |
| 37    | 0022       | 853508      | ELBOW                                          |          | 1   |      |
| 38    | 0054       | 802719      | CLAMP                                          |          | 2   |      |
| 39    | 0010       | 40011151    | SCREW (M8 x 35) Stainless Steel                |          | 4   |      |
| 40    | 0011       | 853468      | NUT (M8)                                       |          | 4   |      |
| 41    | 0000       | 802718      | BRACKET                                        |          | 1   |      |
| 42    | 0000       | 853034      | PIPE                                           |          | 1   |      |
| 43    | 0032       | 806628      | TUBE Exhaust                                   |          | 1   |      |
| 44    | 0054       | 815504372   | CLAMP Worm Gear                                |          | 2   |      |

Turbocharger

## Turbocharger



17944

**Cat.# 90-88399001**

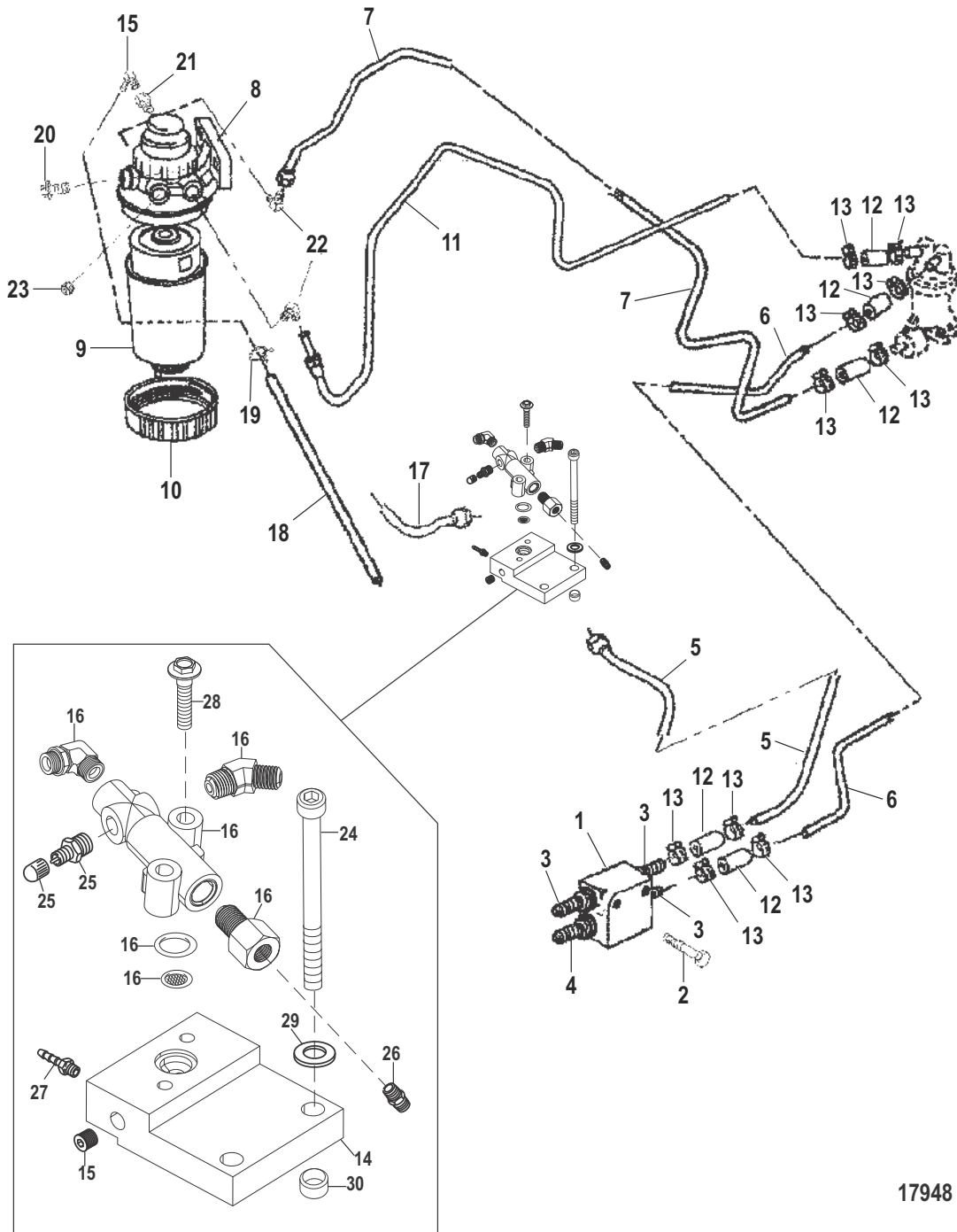
## Turbocharger

| Ref # | Part Class | Part Number | Description     | Comments | Qty | Note |
|-------|------------|-------------|-----------------|----------|-----|------|
| 45    | 0054       | 815504280   | CLAMP Worm Gear |          | 2   |      |
| 46    | 0027       | 853166      | GASKET          |          | 1   |      |

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Turbocharger

## Fuel Filter and Related Parts

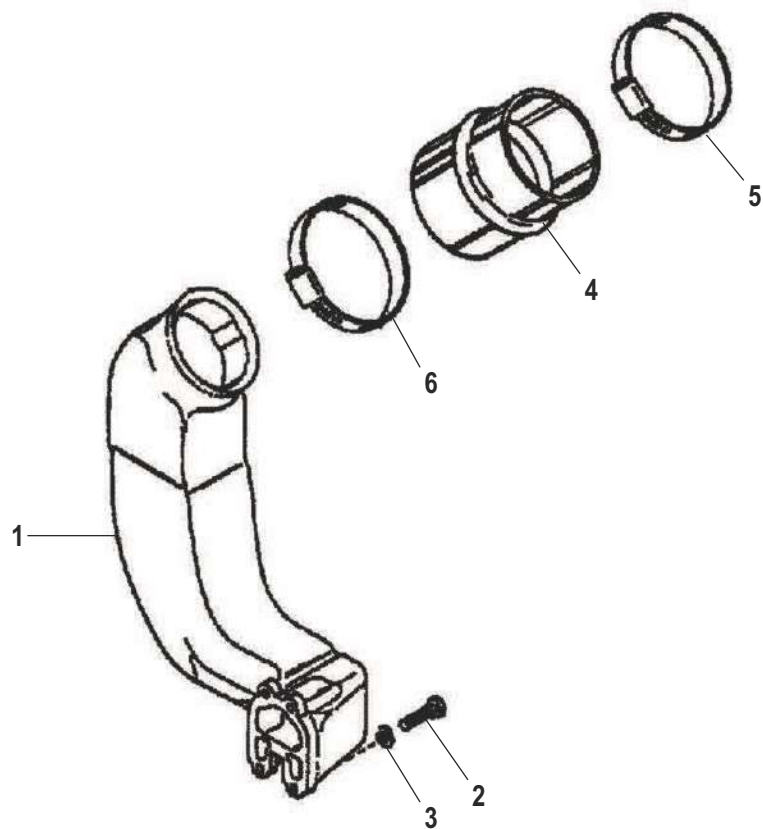


17948

## Fuel Filter and Related Parts

| Ref # | Part Class | Part Number | Description                        | Comments | Qty | Note |
|-------|------------|-------------|------------------------------------|----------|-----|------|
| 1     | 0000       | 853485      | BLOCK Fuel                         |          | 1   |      |
| 2     | 0010       | 853466      | SCREW (M8 x 20)                    |          | 2   |      |
| 3     | 0022       | 853450      | CONNECTOR Fuel Inlet               |          | 3   |      |
| 4     | 0022       | 853452      | CONNECTOR Fuel Outlet              |          | 1   |      |
| 5     | 0032       | 862279      | HOSE Fuel Block to Regulator Mount |          | 1   |      |
| 6     | 0032       | 853217      | HOSE Fuel Block to Lift Pump       |          | 1   |      |
| 7     | 0032       | 853250      | HOSE Fuel                          |          | 1   |      |
| -     | 0035       | 807256T1    | HEADER ASSEMBLY                    |          | 1   |      |
| 8     | 0035       | 807256A1    | HEADER ASSEMBLY With Out Filter    |          | 1   |      |
| 9     | 0035       | 807256T     | FILTER Fuel                        |          | 1   |      |
| 10    | 0000       | 861068      | RING Locking - Fuel Filter         |          | 1   |      |
| 11    | 0032       | 853234      | HOSE Filter                        |          | 1   |      |
| 12    | 0032       | 8532701     | HOSE                               |          | 5   |      |
| 13    | 0054       | 853272      | CLAMP                              |          | 10  |      |
| 14    | 0000       | 853291T     | BLOCK Fuel                         |          | 1   |      |
| 15    | 0022       | 390721      | PLUG Pipe (.125-27) Brass          |          | 2   |      |
| 16    | 0000       | 864304T     | REGULATOR Fuel Pressure            |          | 1   |      |
| 16    |            | NSS         | NOT SOLD SEPARATE Fitting          |          |     |      |
| 16    |            | NSS         | NOT SOLD SEPARATE Fitting          |          |     |      |
| 16    |            | NSS         | NOT SOLD SEPARATE Fitting          |          |     |      |
| 16    |            | NSS         | NOT SOLD SEPARATE O-Ring           |          |     |      |
| 16    |            | NSS         | NOT SOLD SEPARATE Screen           |          |     |      |
| 17    | 0032       | 853430      | HOSE Starboard Head                |          | 1   |      |
| 18    | 0032       | 853461      | HOSE Fuel Mount to Filter          |          | 1   |      |
| 19    | 0054       | 805816      | CLAMP                              |          | 2   |      |
| 20    | 0010       | 853262      | SCREW (M10 x 20)                   |          | 2   |      |
| 21    | 0022       | 48556       | BUSHING Reducer (.250 To .125)     |          | 1   |      |
| 22    | 0022       | 802778      | FITTING Elbow (90 Degree)          |          | 2   |      |
| 23    | 0019       | 853099      | PLUG (.250)                        |          | 1   |      |
| 24    | 0010       | 861959      | SCREW (M8 x 160)                   |          | 2   |      |
| 25    | 0000       | 806776      | VALVE                              |          | 1   |      |
| 25    | 0022       | 805515      | CAP Shrader Valve - Brass          |          | 1   |      |
| 26    | 0022       | 802788      | CONNECTOR                          |          | 1   |      |
| 27    | 0022       | 16739       | CONNECTOR                          |          | 1   |      |
| 28    | 0010       | 4000355     | SCREW (M8 x 35)                    |          | 2   |      |
| 29    | 0012       | 853373      | WASHER                             |          | 2   |      |
| 30    | 0023       | 849083      | SPACER                             |          | 2   |      |

Exhaust Pipe



4311

**Cat.# 90-88399001**

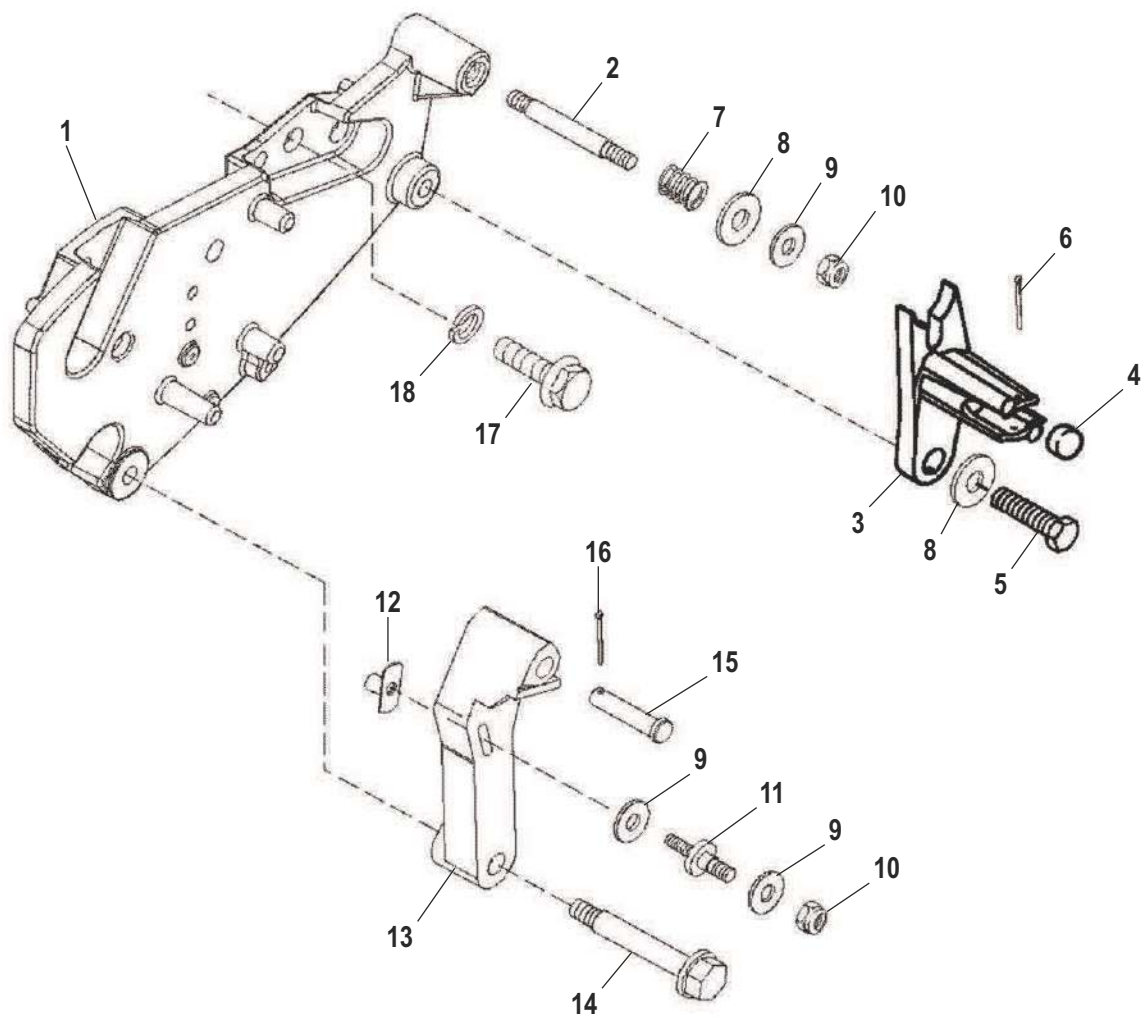
## Exhaust Pipe

| Ref # | Part Class | Part Number | Description            | Comments | Qty | Note |
|-------|------------|-------------|------------------------|----------|-----|------|
| 1     | 0000       | 853034      | PIPE Lower Exhaust     |          | 1   |      |
| 2     | 0010       | 58640       | SCREW (.375-16 x 1.25) |          | 4   |      |
| 3     | 0013       | 41471       | LOCKWASHER (.375)      |          | 4   |      |
| 4     | 0032       | 806628T     | PIPE Exhaust           |          | 1   |      |
| 5     | 0054       | 815504372   | CLAMP Worm Gear        |          | 2   |      |
| 6     | 0054       | 815504388   | CLAMP Worm Gear        |          | 2   |      |

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Exhaust Pipe

## Shift Bracket

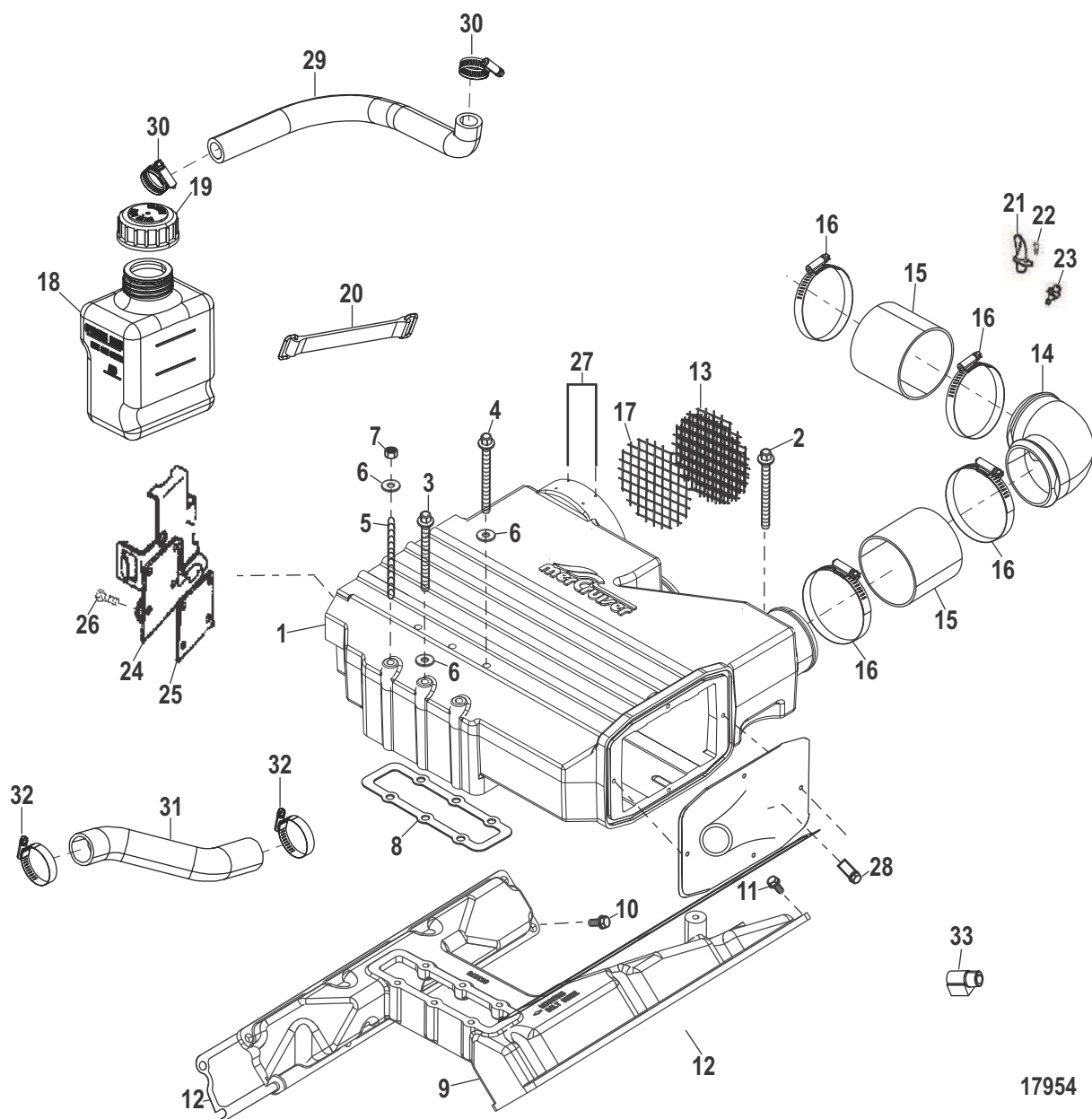


4310

## Shift Bracket

| Ref # | Part Class | Part Number | Description                                      | Comments | Qty | Note |
|-------|------------|-------------|--------------------------------------------------|----------|-----|------|
| 1     | 0000       | 99237A16    | SHIFT BRACKET ASSEMBLY                           |          | 1   |      |
| 2     | 0016       | 865154A02   | STUD KIT (.250-20/.250-28 x 2.120)               |          | 1   |      |
| 3     | 0000       | 865434A02   | RETAINER KIT                                     |          | 1   |      |
| 4     | 0023       | 98828       | SPACER                                           |          | 1   |      |
| 5     | 0010       | 53167       | SCREW (.312-18 x .880)                           |          | 1   |      |
| 6     | 0018       | 328571      | COTTER PIN                                       |          | 1   |      |
| 7     | 0024       | 98880       | SPRING                                           |          | 1   |      |
| 8     | 0012       | 56720       | WASHER (.330 x .750 x .060)<br>Stainless Steel   |          | 2   |      |
| 9     | 0012       | 35462       | WASHER (.2656 x .625 x .0625)<br>Stainless Steel |          | 5   |      |
| 10    | 0011       | 8267119     | NUT (.250-28)                                    |          | 2   |      |
| 11    | 0016       | 96112       | STUD (.250-28 x 2.00) Throttle<br>Cable Anchor   |          | 1   |      |
| 12    | 0011       | 63341       | TEE NUT                                          |          | 1   |      |
| 13    | 0000       | 138981      | LEVER Shift                                      |          | 1   |      |
| 14    | 0010       | 13743       | SCREW (.312-18 x 1.843)                          |          | 1   |      |
| 15    | 0017       | 68402       | PIN (.250 x 1.13) Clevis                         |          | 1   |      |
| 16    | 0018       | 210711      | COTTER PIN                                       |          | 1   |      |
| 17    | 0010       | 854118      | SCREW (M8 x 20)                                  |          | 2   |      |
| 18    | 0013       | 811460      | LOCKWASHER                                       |          | 2   |      |

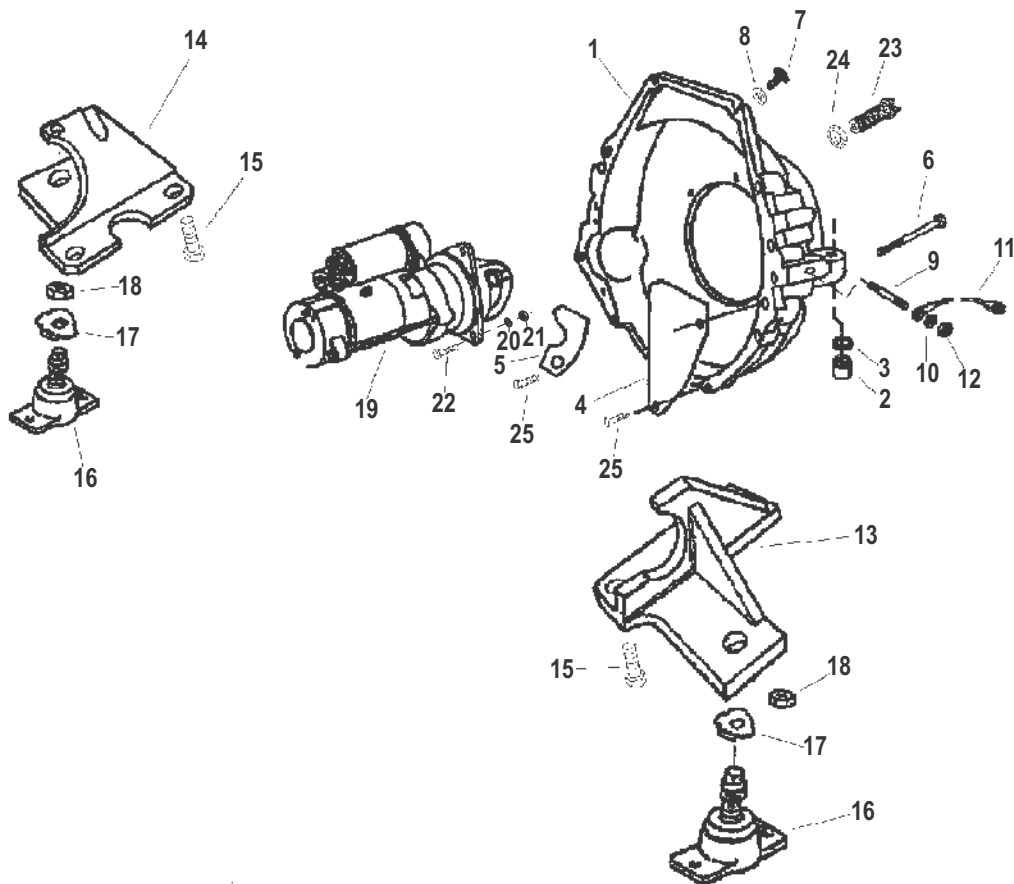
## Aftercooler and Intake Manifold



## Aftercooler and Intake Manifold

| Ref # | Part Class | Part Number | Description                                   | Comments | Qty | Note |
|-------|------------|-------------|-----------------------------------------------|----------|-----|------|
| 1     | 0000       | 864172A3    | AFTERCOOLER ASSEMBLY                          |          | 1   |      |
| 2     | 0010       | 853226      | SCREW (M8 x 100)                              |          | 1   |      |
| 3     | 0010       | 853371      | SCREW (M8 x 130)                              |          | 1   |      |
| 4     | 0010       | 802785      | SCREW (M8 x 150)                              |          | 3   |      |
| 5     | 0016       | 853429      | STUD (M8 x 130)                               |          | 2   |      |
| 6     | 0012       | 853373      | WASHER                                        |          | 6   |      |
| 7     | 0011       | 853468      | NUT (M8)                                      |          | 2   |      |
| 8     | 0027       | 853374      | GASKET                                        |          | 1   |      |
| 9     | 0000       | 853375A1    | MANIFOLD ASSEMBLY Intake                      |          | 1   |      |
| 10    | 0010       | 853376      | SCREW (M8 x 20)                               |          | 15  |      |
| 11    | 0010       | 853377      | SCREW (M8 x 60)                               |          | 1   |      |
| 12    | 0027       | 853378      | GASKET Intake                                 |          | 2   |      |
| 13    | 0000       | 853379      | ELEMENT Air Cleaner                           |          | 1   |      |
| 14    | 0000       | 862273T     | ELBOW                                         |          | 1   |      |
| 15    | 0032       | 802716      | HOSE                                          |          | 2   |      |
| 16    | 0054       | 815504248   | CLAMP Worm Gear Hose                          |          | 4   |      |
| 17    | 0000       | 853215      | SCREEN                                        |          | 1   |      |
| 18    | 0000       | 806193A51   | MONITOR ASSEMBLY Drive Lube                   |          | 1   |      |
| 19    | 0036       | 8067271     | CAP Drive Lube Monitor                        |          | 1   |      |
| 20    | 0000       | 808023T     | STRAP Bracket                                 |          | 1   |      |
| 21    | 0000       | 853382      | TUBE                                          |          | 1   |      |
| 22    | 0010       | 802776      | SCREW (M4 x 16)                               |          | 1   |      |
| 23    | 0000       | 853203      | SENDER Air Temperature                        |          | 1   |      |
| 24    | 0000       | 860065A1    | BRACKET KIT Oil Reservoir                     |          | 1   |      |
| 25    |            | NLA         | No Longer Available Plate, Cover              |          | 1   |      |
| 26    | 0010       | 4010816     | SCREW (M10 x 16) Hex Flange - Stainless Steel |          | 4   |      |
| 27    | 0000       | 853483      | KEEPER                                        |          | 1   |      |
| 28    | 0097       | 808112      | ANODE Zinc                                    |          | 2   |      |
| 29    | 0032       | 853431      | HOSE                                          |          | 1   |      |
| 30    | 0054       | 815504412   | CLAMP Worm Gear Hose                          |          | 2   |      |
| 31    | 0032       | 802789      | HOSE To Heat Exchanger                        |          | 1   |      |
| 32    | 0054       | 815504226   | CLAMP Worm Gear Hose                          |          | 2   |      |
| 33    | 0022       | 853173      | ELBOW                                         |          | 1   |      |
| -     | 0000       | 861986      | SENSOR MAP                                    |          |     |      |

## Starter Engine Mounts, and Flywheel Housing

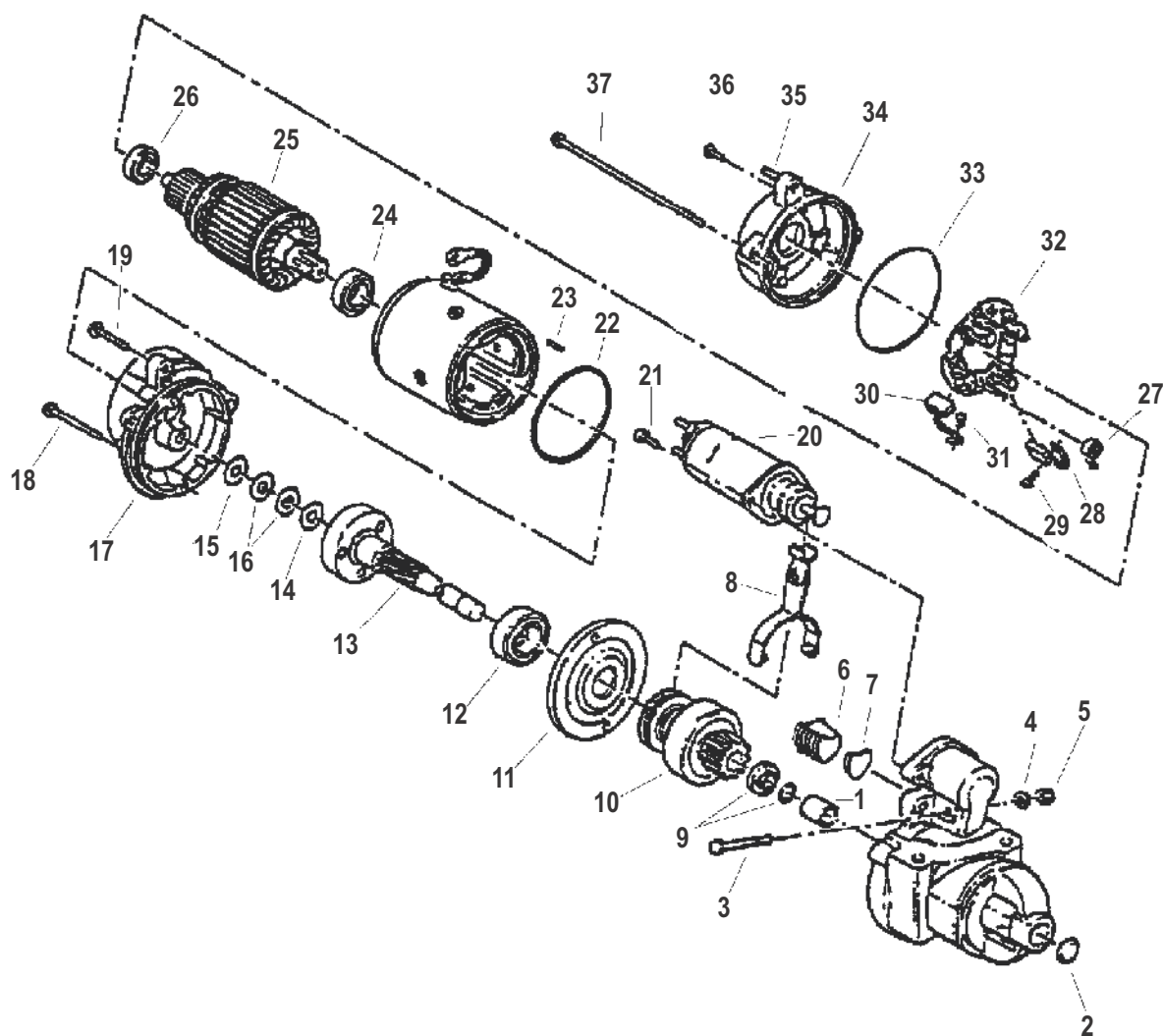


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## Starter Engine Mounts, and Flywheel Housing

| Ref # | Part Class | Part Number | Description                                       | Comments | Qty | Note |
|-------|------------|-------------|---------------------------------------------------|----------|-----|------|
| 1     | 0000       | 853437A1    | HOUSING Flywheel                                  |          | 1   |      |
| 2     | 0000       | 865330A02   | MOUNT KIT Rubber                                  |          | 1   |      |
| 3     | 0023       | 99322       | SPACER                                            |          | 2   |      |
| 4     | 0000       | 853441      | COVER                                             |          | 1   |      |
| 5     | 0000       | 853440      | PLATE Cover                                       |          | 1   |      |
| 6     | 0010       | 853421      | SCREW (M12 x 90)                                  |          | 4   |      |
| 7     | 0010       | 4009760     | SCREW (M12 x 60)                                  |          | 2   |      |
| 8     | 0012       | 853239      | WASHER                                            |          | 2   |      |
| 9     | 0016       | 806309      | STUD                                              |          | 2   |      |
| 10    | 0012       | 20572       | WASHER (.390 x .750 x .093)                       |          | 2   |      |
| 11    | 0084       | 62826A6     | CABLE ASSEMBLY Ground (13.00 Inches) Black Ground |          | 1   |      |
| 12    | 0011       | 32219       | NUT (.375-16)                                     |          | 2   |      |
| 13    | 0000       | 853453T     | MOUNT Port                                        |          | 1   |      |
| 14    | 0000       | 853472A1    | MOUNT Starboard                                   |          | 1   |      |
| 15    | 0010       | 853448      | SCREW (M12 x 30)                                  |          | 6   |      |
| 16    | 0000       | 853433T1    | MOUNT Engine                                      |          | 2   |      |
| 17    | 0014       | 12657       | TAB WASHER                                        |          | 2   |      |
| 18    | 0011       | 853434      | NUT                                               |          | 2   |      |
| 19    | 0050       | 805833T     | STARTER MOTOR ASSEMBLY                            |          | 1   |      |
| 20    | 0013       | 400248      | LOCKWASHER (M10)                                  |          | 1   |      |
| 21    | 0011       | 805794      | NUT (M10)                                         |          | 1   |      |
| 22    | 0010       | 4010830     | SCREW (M10 x 15) Hex Flange - Stainless Steel     |          | 3   |      |
| 23    | 0000       | 805694      | PICK UP Magnetic Magnetic                         |          | 1   |      |
| 24    | 0011       | 859126      | NUT (.750-16)                                     |          | 1   |      |
| 25    | 0010       | 853442      | SCREW (M8 x 16)                                   |          | 3   |      |

## Starter Motor

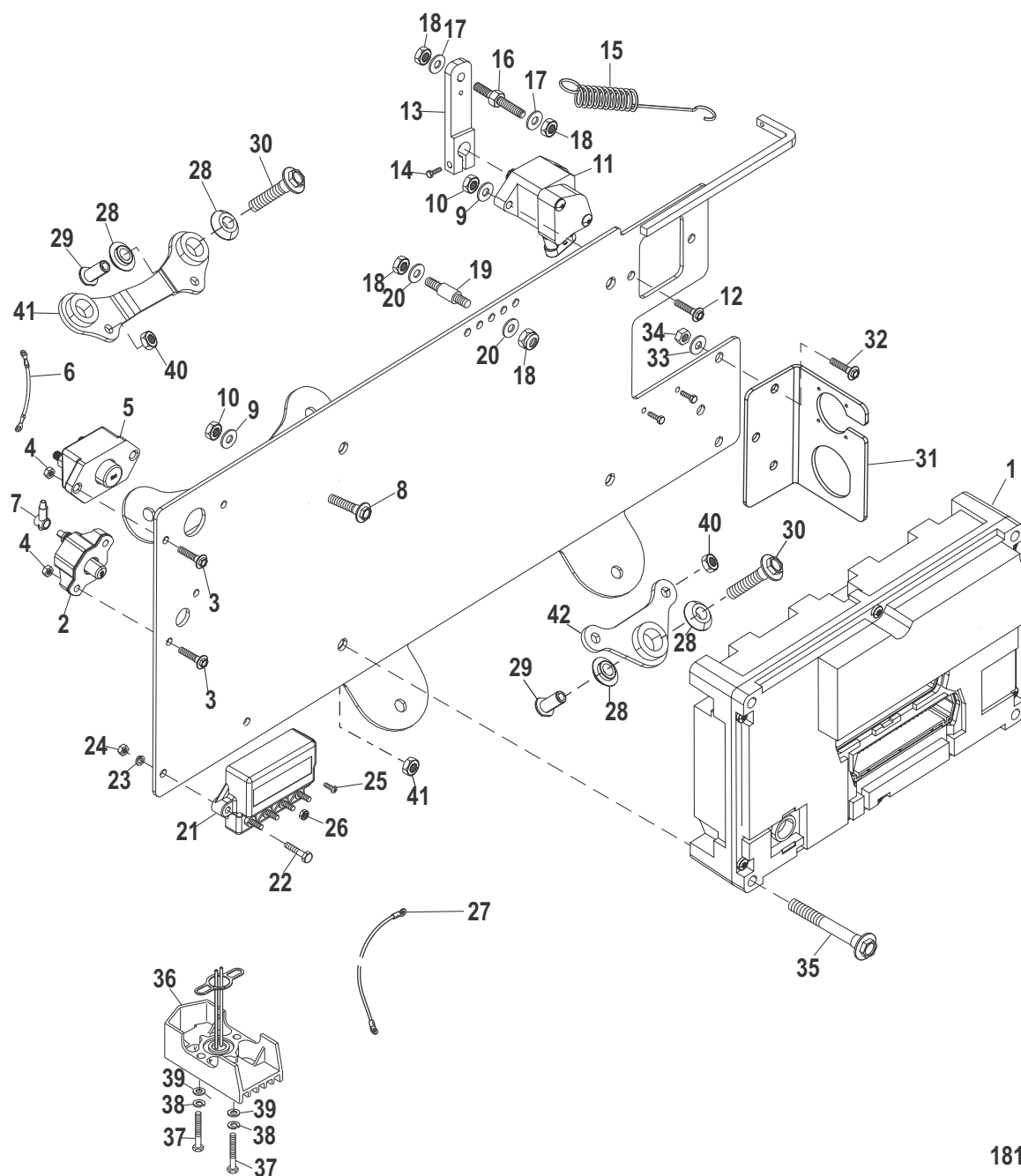


4351

## Starter Motor

| Ref # | Part Class | Part Number | Description                                | Comments | Qty | Note |
|-------|------------|-------------|--------------------------------------------|----------|-----|------|
| -     | 0050       | 805833T     | STARTER MOTOR ASSEMBLY                     |          | 1   |      |
| 1     | 0023       | 808305      | BUSHING                                    |          | 1   |      |
| 2     |            | NSS         | NOT SOLD SEPARATE Bushing                  |          | 1   |      |
| 3     |            | NSS         | NOT SOLD SEPARATE Screw,<br>(M6 x 50.8)    |          | 1   |      |
| 4     |            | NSS         | NOT SOLD SEPARATE Washer                   |          | 1   |      |
| 5     |            | NSS         | NOT SOLD SEPARATE Nut, (M6)                |          | 1   |      |
| 6     |            | NSS         | NOT SOLD SEPARATE                          |          | 1   |      |
| 7     |            | NSS         | NOT SOLD SEPARATE                          |          | 1   |      |
| 8     | 0000       | 808310      | LEVER Shift                                |          | 1   |      |
| 9     | 0000       | 808311      | STOP Pinion                                |          | 1   |      |
| 10    | 0000       | 808301T     | CLUTCH DRIVE Clutch                        |          | 1   |      |
| 11    | 0000       | 808316      | BRACKET Support                            |          | 1   |      |
| 12    | 0030       | 808309      | BEARING Ball (Center Support)              |          | 1   |      |
| 13    | 0000       | 803862      | DRIVESHAFT                                 |          | 1   |      |
| 14    |            | NSS         | NOT SOLD SEPARATE Washer,<br>(Thick)       |          | 1   |      |
| 15    |            | NSS         | NOT SOLD SEPARATE Washer,<br>(Thin)        |          | 1   |      |
| 16    |            | NSS         | NOT SOLD SEPARATE Washer,<br>(Fiber)       |          | 2   |      |
| 17    | 0000       | 803873      | BRACKET Support                            |          | 1   |      |
| 18    |            | NSS         | NOT SOLD SEPARATE Screw, (M6<br>x 60)      |          | 1   |      |
| 19    |            | NSS         | NOT SOLD SEPARATE Screw, (M6<br>x 35)      |          | AR  |      |
| 20    | 0000       | 808299      | SOLENOID                                   |          | AR  |      |
| 21    |            | NSS         | NOT SOLD SEPARATE (M6 x 19.1)              |          | 2   |      |
| 22    |            | NSS         | NOT SOLD SEPARATE O-Ring                   |          | 1   |      |
| 23    |            | NSS         | NOT SOLD SEPARATE Roll Pin                 |          | 1   |      |
| 24    | 0030       | 808307      | BEARING Ball (Drive End)                   |          | 1   |      |
| 25    | 0000       | 808312T     | ARMATURE                                   |          | 1   |      |
| 26    | 0030       | 808308      | BEARING Ball (Commutator End)              |          | 1   |      |
| 27    | 0024       | 808306      | SPRING Brush                               |          | 4   |      |
| 28    | 0000       | 808304      | GROUND Brush                               |          | 2   |      |
| 29    |            | NSS         | NOT SOLD SEPARATE Screw, (M4<br>x 4.94)    |          | 2   |      |
| 30    | 0000       | 808304      | GROUND                                     |          | 2   |      |
| 31    |            | NSS         | NOT SOLD SEPARATE Screw, (M4<br>x 4.8)     |          | 2   |      |
| 32    | 0000       | 808302      | HOLDER Brush                               |          | 1   |      |
| 33    | 0025       | 803863      | O-RING                                     |          | 1   |      |
| 34    | 0000       | 808313      | FRAME Commutator End                       |          | 1   |      |
| 35    |            | NSS         | NOT SOLD SEPARATE Stud                     |          | 1   |      |
| 36    |            | NSS         | NOT SOLD SEPARATE Screw, (M5<br>x 14.3)    |          | 2   |      |
| 37    |            | NSS         | NOT SOLD SEPARATE Thru Bolt,<br>(M6 x 181) |          | 2   |      |

## Electronic Panel

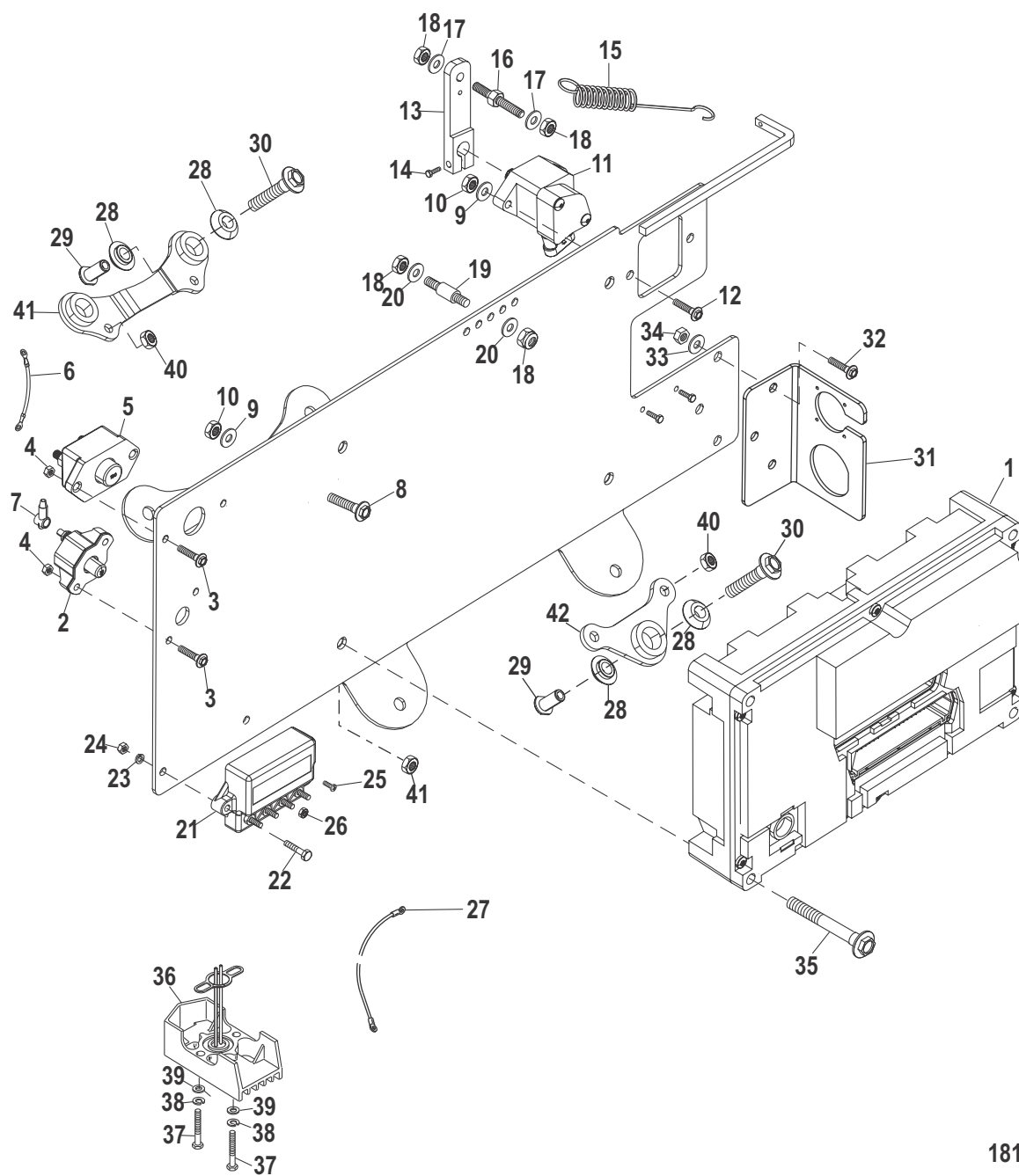


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## Electronic Panel

| Ref # | Part Class | Part Number | Description                                    | Comments | Qty | Note |
|-------|------------|-------------|------------------------------------------------|----------|-----|------|
| 1     | 0000       | 862169T     | MODULE Electronic Control                      | (300 HP) | 1   |      |
| 1     | 0000       | 862169T1    | MODULE Electronic Control                      | (260 HP) | 1   |      |
| 2     | 0000       | 853404      | BREAKER Circuit - 30 Ampere                    |          | 1   |      |
| 3     | 0010       | 802784      | SCREW (M5 x 20)                                |          | 4   |      |
| 4     | 0011       | 400211      | NUT (M5) Stainless Steel                       |          | 4   |      |
| 5     | 0088       | 805692      | BREAKER Circuit - 150 Ampere                   |          | 1   |      |
| 6     | 0084       | 853506      | WIRE                                           |          | 1   |      |
| 7     | 0085       | 8500671     | BOOT Insulator - Red                           |          | 1   |      |
| 8     | 0010       | 4009416     | SCREW (M6 x 16)                                |          | 3   |      |
| 9     | 0012       | 853211      | WASHER                                         |          | 5   |      |
| 10    | 0011       | 802777      | NUT (M6)                                       |          | 5   |      |
| 11    | 0000       | 853497      | CONTROL Throttle                               |          | 1   |      |
| 12    | 0010       | 802783      | SCREW (M6 x 25)                                |          | 2   |      |
| 13    | 0000       | 853498      | LEVER                                          |          | 1   |      |
| 14    | 0010       | 853097      | SCREW (M4 x 20)                                |          | 1   |      |
| 15    | 0024       | 91821       | SPRING                                         |          | 1   |      |
| 16    | 0016       | 96112       | STUD (.250-28 x 2.00)                          |          | 1   |      |
| 17    | 0012       | 29245       | WASHER (.281 x .500 x .060)<br>Stainless Steel |          | 2   |      |
| 18    | 0011       | 8267089     | NUT (.250-28)                                  |          | 4   |      |
| 19    | 0016       | 818192      | STUD                                           |          | 1   |      |
| 20    | 0012       | 24664       | WASHER (M4 x 20)                               |          | 2   |      |
| 21    | 0000       | 42600A3     | CONTROLLER ASSEMBLY                            |          | 1   |      |
| 22    | 0010       | 802784      | SCREW (M5 x 20)                                |          | 2   |      |
| 23    | 0013       | 26996       | LOCKWASHER (#10) Stainless Steel               |          | 2   |      |
| 24    | 0011       | 68219       | NUT (#10-32) Stainless Steel                   |          | 2   |      |
| 25    | 0010       | 62568       | SCREW (#10-16 x .375)                          |          | 1   |      |
| 26    | 0011       | 68219       | NUT (#10-32) Stainless Steel                   |          | 4   |      |
| 27    | 0084       | 88543A3     | CABLE ASSEMBLY                                 |          | 1   |      |
| 28    | 0025       | 853470      | ISOLATOR                                       |          | 8   |      |
| 29    | 0000       | 853504      | SPACER                                         |          | 4   |      |
| 30    | 0010       | 853219      | SCREW (M8 x 25)                                |          | 4   |      |
| 31    | 0000       | 863390      | PLATE Electrical Connection<br>Mounting        |          | 1   |      |
| 32    | 0010       | 4009416     | SCREW (M6 x 16)                                |          | 3   |      |
| 33    | 0012       | 853211      | WASHER                                         |          | 3   |      |
| 34    | 0011       | 802777      | NUT (M6)                                       |          | 3   |      |
| 35    | 0010       | 853412      | SCREW (M8 x 70)                                |          | 4   |      |
| 36    | 0000       | 98869A17    | ELECTRODE ASSEMBLY                             |          | 1   |      |
| 37    | 0010       | 69067       | SCREW (.250-20 x 1.375)                        |          | 2   |      |
| 38    | 0013       | 26992       | LOCKWASHER (.250) Stainless Steel              |          | 2   |      |
| 39    | 0012       | 29245       | WASHER (.281 x .500 x .060)<br>Stainless Steel |          | 2   |      |
| 40    | 0011       | 853468      | NUT (M8)                                       |          | 6   |      |
| 41    | 0000       | 853293T     | BRACKET                                        |          | 1   |      |

## Electronic Panel



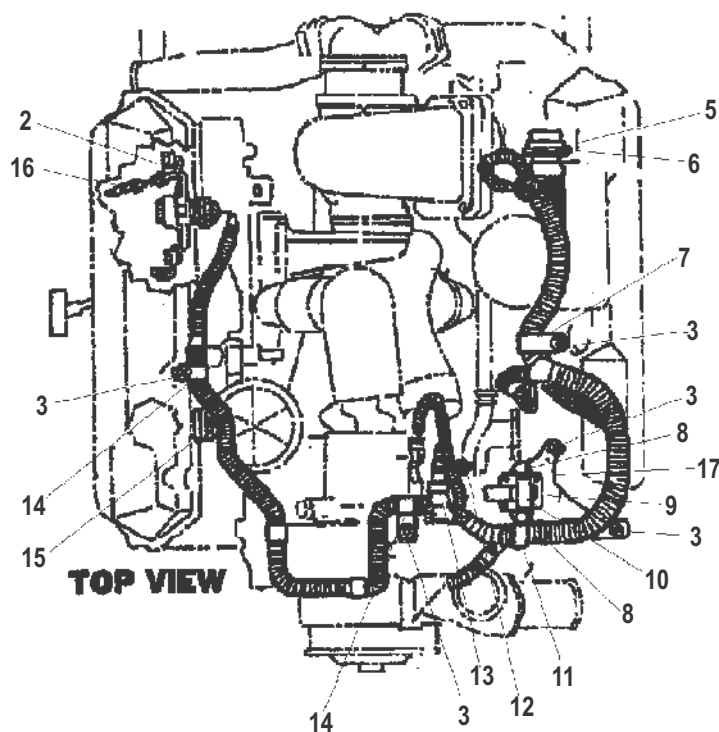
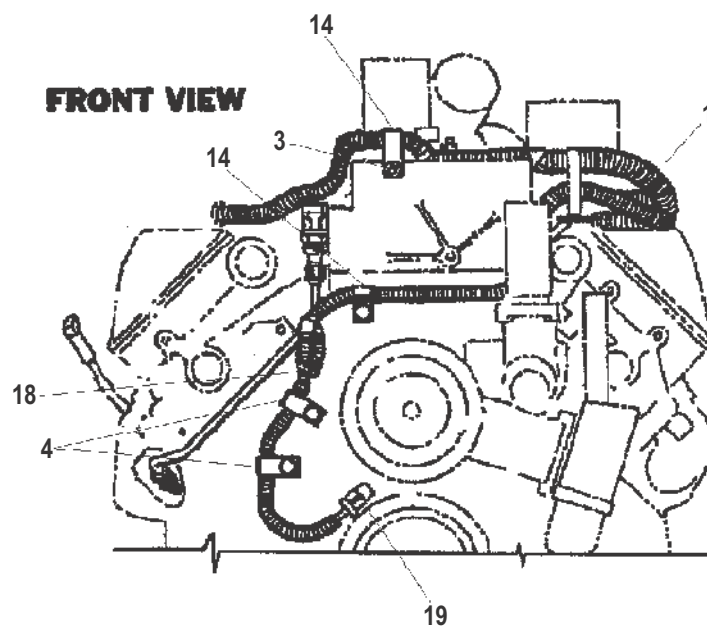
18198

**Cat.# 90-88399001**

## Electronic Panel

| Ref # | Part Class | Part Number | Description | Comments | Qty | Note |
|-------|------------|-------------|-------------|----------|-----|------|
| 42    | 0000       | 853499      | BRACKET     |          | 1   |      |

## Engine Wiring Harness

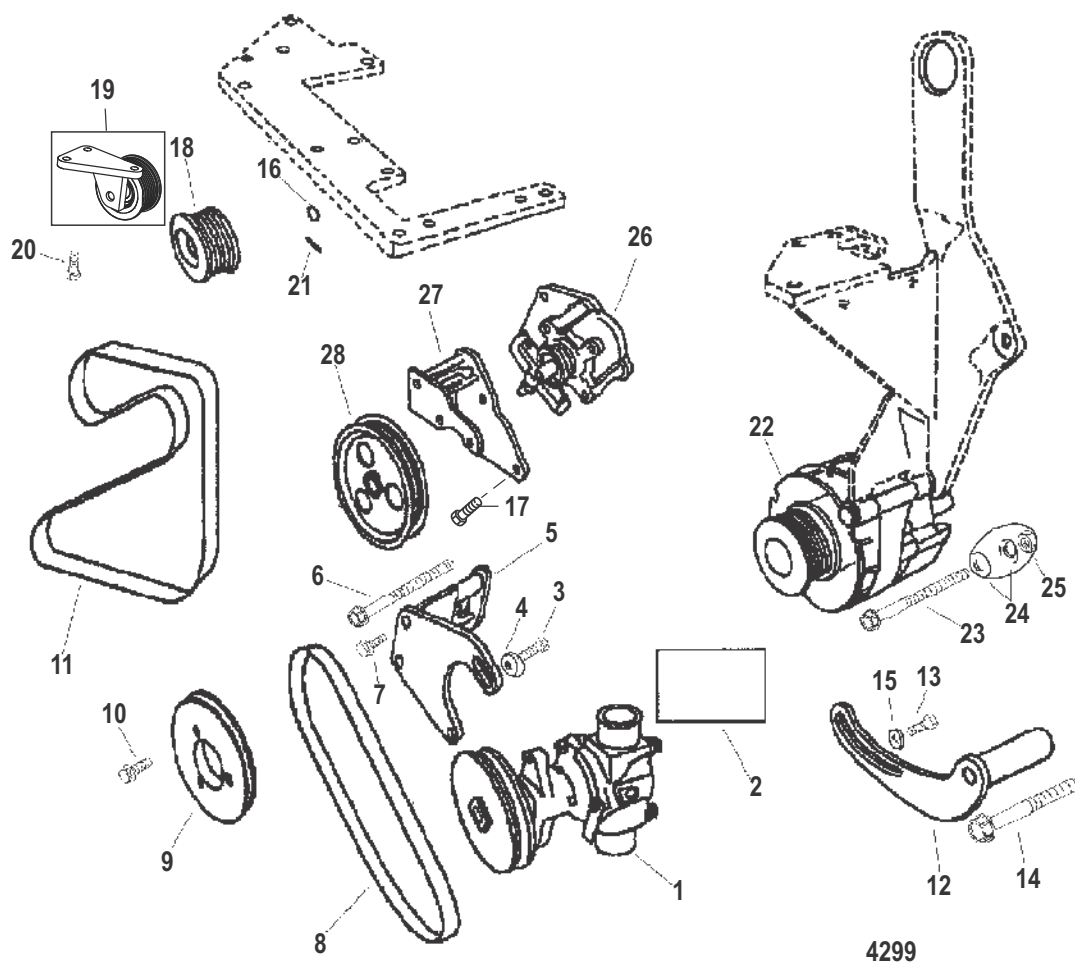


4300

## Engine Wiring Harness

| Ref # | Part Class | Part Number | Description                                    | Comments | Qty | Note |
|-------|------------|-------------|------------------------------------------------|----------|-----|------|
| 1     | 0084       | 862613      | HARNESS ASSEMBLY Engine Primary                |          | 1   |      |
| 1     | 0084       | 862611      | HARNESS ASSEMBLY ECM                           |          | 1   |      |
| 2     | 0084       | 899753      | HARNESS ASSEMBLY Injector, Glow Plug           |          | 1   |      |
| 3     | 0011       | 853468      | NUT (M8)                                       |          | 6   |      |
| 4     | 0054       | 853223      | CLAMP                                          |          | 2   |      |
| 5     | 0011       | 853185      | NUT                                            |          | 1   |      |
| 6     | 0012       | 853186      | WASHER                                         |          | 1   |      |
| 7     | 0054       | 853187      | CLAMP                                          |          | 1   |      |
| 8     | 0010       | 4009416     | SCREW (M6 x 16)                                |          | 2   |      |
| 9     | 0000       | 853189      | RELAY Glow Plug                                |          | 1   |      |
| -     | 0026       | 853190      | SEAL                                           |          | 1   |      |
| -     | 0011       | 853191      | NUT                                            |          | 2   |      |
| 10    | 0000       | 853192      | COVER Relay                                    |          | 1   |      |
| 11    | 0054       | 853194      | CLAMP                                          |          | 1   |      |
| 12    | 0000       | 853195      | SENSOR (ICP, ECM Input)                        |          | 1   |      |
| 13    | 0000       | 853203      | SENDER (Oil Temperature, ECM Input)            |          | 1   |      |
| 14    | 0054       | 853197      | CLAMP                                          |          | 4   |      |
| 15    | 0026       | 853198      | SEAL                                           |          | 4   |      |
| 16    | 0000       | 853199      | GLOW PLUG                                      |          | 8   |      |
| 17    | 0000       | 853201      | SUPPORT                                        |          | 1   |      |
| 18    | 0000       | 853203      | SENDER (Engine Coolant Temperature, ECM Input) |          | 1   |      |
| 19    | 0000       | 853204      | SENSOR (Cam Position, ECM Input)               |          | 1   |      |
| -     | 0010       | 853442      | SCREW (M8 x 16) Cam Sensor                     |          | 1   |      |
| -     | 0025       | 853206      | O-RING Cam Sensor                              |          | 1   |      |
| -     | 0026       | 853207      | SEAL Cam Sensor                                |          | 1   |      |
| -     | 0000       | 830796A1    | CONNECTOR ASSEMBLY                             |          | 1   |      |

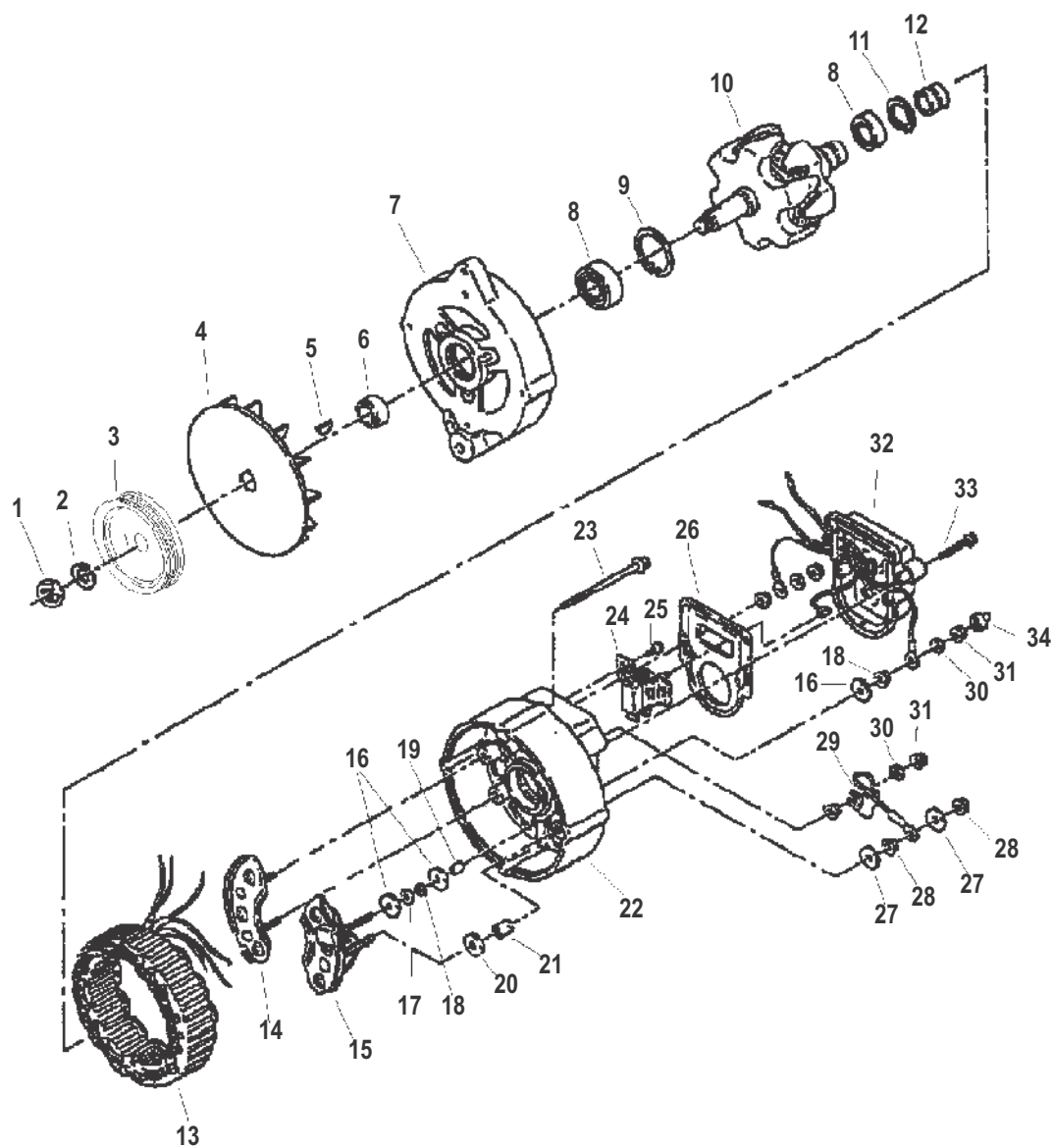
## Alternator and Seawater Pump



## Alternator and Seawater Pump

| Ref # | Part Class | Part Number | Description                                    | Comments                                | Qty | Note |
|-------|------------|-------------|------------------------------------------------|-----------------------------------------|-----|------|
| 1     | 0000       | 805835      | PUMP Seawater                                  |                                         | 1   |      |
| -     | 0047       | 853126      | IMPELLER                                       |                                         | 1   |      |
| 2     | 0000       | 808145T     | REPAIR KIT Seawater Pump                       |                                         | 1   |      |
| 3     | 0010       | 34353       | SCREW (.375-16 x 1.00)                         |                                         | 2   |      |
| 4     | 0012       | 20572       | WASHER (.390 x .750 x .093)                    |                                         | 2   |      |
| 5     | 0000       | 862985T     | BRACKET                                        |                                         | 1   |      |
| 6     | 0010       | 853155      | SCREW (M10 x 140)                              |                                         | 1   |      |
| 6     | 0010       | 853238      | SCREW (M12 x 140)                              |                                         | 1   |      |
| 7     | 0010       | 853156      | SCREW (M8 x 50)                                |                                         | 1   |      |
| 8     | 0057       | 806851Q     | BELT Seawater Pump                             |                                         | 1   |      |
| 9     | 0000       | 853241      | PULLEY Mounts to Front of Crankshaft           |                                         | 1   |      |
| 10    | 0010       | 802799      | SCREW                                          |                                         | 3   |      |
| 11    | 0057       | 853243      | BELT Alternator                                |                                         | 1   |      |
| 12    | 0000       | 862982      | BRACKET Alternator Adjusting                   |                                         | 1   |      |
| 13    | 0010       | 853078      | SCREW (.312-18 x 1.00)                         |                                         | 1   |      |
| 14    | 0010       | 853421      | SCREW (M12 x 90)                               |                                         | 1   |      |
| 15    | 0012       | 4002317     | WASHER (8.90 X 17.0 X 1.9SS)                   |                                         | 1   |      |
| 16    | 0053       | 853251      | RING Retaining                                 | (Design 1)                              | 1   |      |
| 17    | 0010       | 853219      | SCREW (M8 x 25)                                |                                         | 5   |      |
| 18    | 0000       | 853253T4    | IDLER PULLEY                                   | (Design 1)                              | 1   |      |
| 19    | 0000       | 853253T3    | IDLER ASSEMBLY                                 | (Design 2)                              | 1   |      |
| 20    | 0010       | 853466      | SCREW (M8 x 20)                                |                                         | 3   |      |
| 21    | 0017       | 853256      | PIN                                            | Design 1                                | 1   |      |
| 22    | 0000       | 853257      | ALTERNATOR 65 Ampere                           | See Alternator for Breakdown - Design 1 | 1   |      |
| 23    | 0010       | 805769      | SCREW (.375-16 x 5.00)                         |                                         | 1   |      |
| 24    | 0012       | 34931       | WASHER (.406 x .734 x .063)<br>Stainless Steel |                                         | 2   |      |
| 25    | 0011       | 805781      | NUT (.375-16)                                  |                                         | 1   |      |
| 26    | 0000       | 18825A2     | PUMP ASSEMBLY Power Steering                   |                                         | 1   |      |
| 27    | 0000       | 862916T     | BRACKET                                        |                                         | 1   |      |
| 28    | 0000       | 853059      | PULLEY Power Steering                          |                                         | 1   |      |

## Alternator

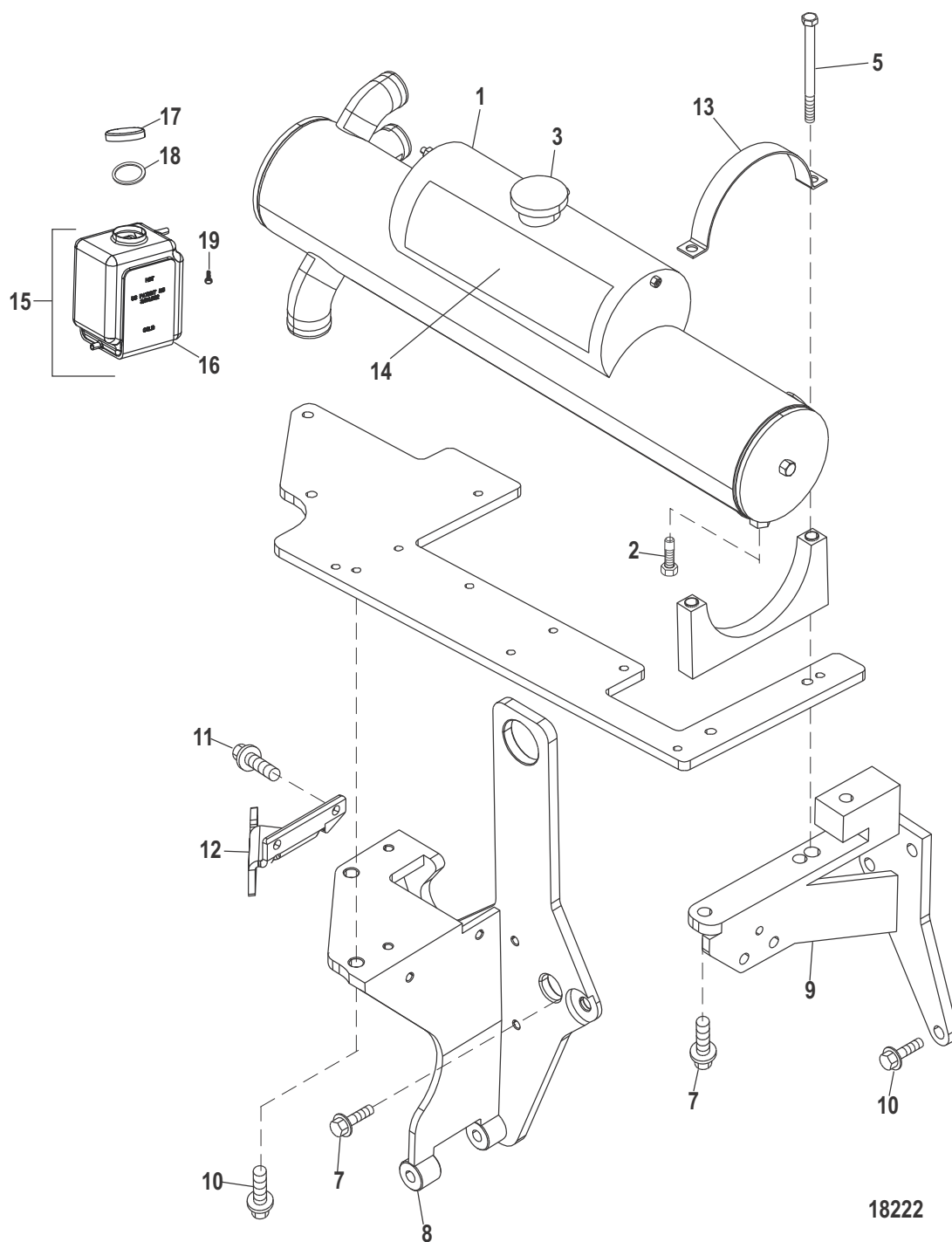


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## Alternator

| Ref # | Part Class | Part Number | Description                      | Comments | Qty | Note |
|-------|------------|-------------|----------------------------------|----------|-----|------|
| -     | 0000       | 853257      | ALTERNATOR 65 Ampere             |          | 1   |      |
| 1     | 0390       | 7027        | NUT                              |          | 1   |      |
| 2     | 0013       | 808542      | LOCKWASHER                       |          | 1   |      |
| 3     | 0000       | 853258      | PULLEY                           |          | 1   |      |
| 4     | 0390       | 7004        | FAN                              |          | 1   |      |
| 5     | 0390       | 7034        | KEY                              |          | 1   |      |
| 6     | 0000       | 813969      | SPACER                           |          | 1   |      |
| 7     | 0000       | 808527      | HOUSING Front                    |          | 1   |      |
| 8     | 0390       | 7007        | RETAINER Ball                    |          | 2   |      |
| 9     | 0390       | 7006        | RING Retaining (Front)           |          | 1   |      |
| 10    | 0000       | 808528      | ROTOR                            |          | 1   |      |
| 11    | 0390       | 7017        | RING Retaining (Rear)            |          | 1   |      |
| 12    | 0390       | 7014        | SLIP RING                        |          | 1   |      |
| 13    | 0000       | 808529      | STATOR                           |          | 1   |      |
| 14    | 0390       | 7009        | DIODE Rectifier (Negative)       |          | 1   |      |
| 15    | 0000       | 808531      | DIODE Rectifier (Positive)       |          | 1   |      |
| 16    | 0390       | 7024        | WASHER                           |          | 2   |      |
| 17    | 0012       | 813984      | WASHER                           |          | 1   |      |
| 18    | 0011       | 808544      | NUT                              |          | 3   |      |
| 19    | 0390       | 7020        | SLEEVE                           |          | 1   |      |
| 20    | 0390       | 7023        | INSULATOR                        |          | 2   |      |
| 21    | 0000       | 808536      | SLEEVE                           |          | 1   |      |
| 22    | 0390       | 7003        | HOUSING Rear                     |          | 1   |      |
| 23    | 0010       | 808535      | BOLT                             |          | 4   |      |
| 24    | 0000       | 808532      | BRUSH ASSEMBLY                   |          | 1   |      |
| 25    | 0010       | 808540      | SCREW (#8-32 x .500)             |          | 2   |      |
| 26    | 0390       | 7013        | GASKET                           |          | 1   |      |
| 27    | 0012       | 808537      | WASHER                           |          | 2   |      |
| 28    | 0011       | 808539      | NUT (.250-20)                    |          | 2   |      |
| 29    | 0000       | 813972      | CAPACITOR                        |          | 1   |      |
| 30    | 0013       | 26996       | LOCKWASHER (#10) Stainless Steel |          | 3   |      |
| 31    | 0011       | 808538      | NUT                              |          | 3   |      |
| 32    | 0000       | 808534T     | REGULATOR Voltage                |          | 1   |      |
| 33    | 0010       | 808541      | SCREW (#8-32 x 1.250)            |          | 2   |      |
| 34    | 0000       | 808543      | CAP                              |          | 2   |      |
| -     | 0000       | 808533T     | DIODE FIELD                      |          | AR  |      |

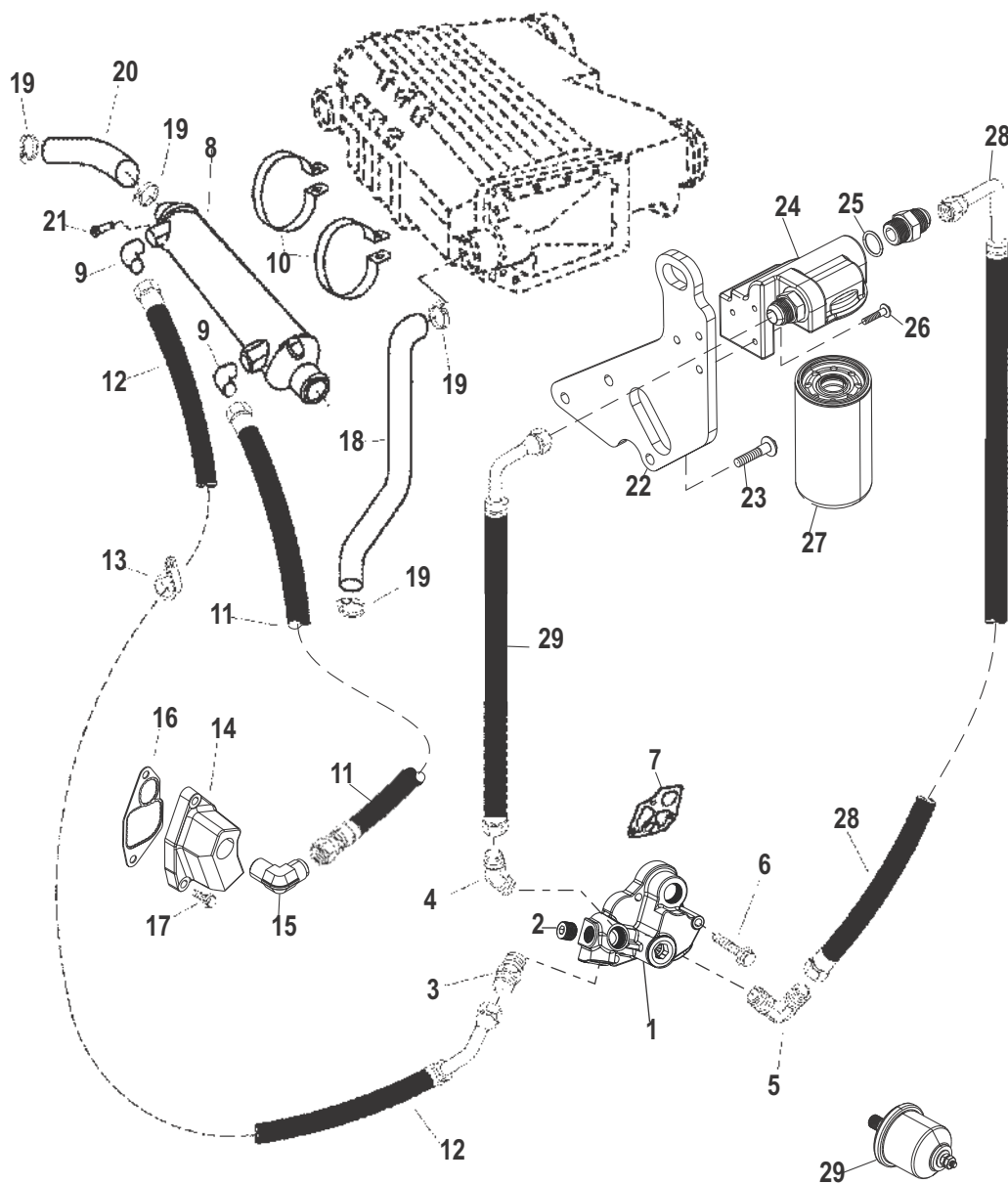
## Heat Exchanger



## Heat Exchanger

| Ref # | Part Class | Part Number | Description                        | Comments | Qty | Note |
|-------|------------|-------------|------------------------------------|----------|-----|------|
| 1     | 0000       | 853259      | HEAT EXCHANGER                     |          | 1   |      |
| 2     | 0097       | 808112      | ANODE Zinc                         |          | 1   |      |
| 3     | 0000       | 853108      | FOOT                               |          | 2   |      |
| 4     | 0010       | 853048      | SCREW (M8 x 90)                    |          | 4   |      |
| 5     | 0000       | 853261      | SUPPORT                            |          | 1   |      |
| 6     | 0010       | 853445      | SCREW (M10 x 16)                   |          | 4   |      |
| 7     | 0000       | 853263T     | SUPPORT Heat Exchanger (Starboard) |          | 1   |      |
| 8     | 0000       | 853265      | SUPPORT Heat Exchanger (Port)      |          | 1   |      |
| 9     | 0010       | 853451      | SCREW (M10 x 30)                   |          | 6   |      |
| 10    | 0000       | 802787      | BRACKET Fuel Filter                |          | 1   |      |
| 11    | 0010       | 853466      | SCREW (M8 x 20)                    |          | 2   |      |
| 12    | 0010       | 853442      | SCREW (M8 x 16) Heat Exchanger     |          | 2   |      |
| 13    | 0036       | 808108      | CAP Heat Exchanger                 |          | 1   |      |
| 14    | 0037       | 8614561     | DECAL Heat Exchanger               |          | 1   |      |
| 15    | 0000       | 71587A10    | RECOVERY KIT Coolant               |          | 1   |      |
| 16    | 0000       | 71587A11    | BOTTLE Plastic                     |          | 1   |      |
| 17    | 0000       | 72058       | CAP                                |          | 1   |      |
| 18    | 0027       | 71614       | GASKET                             |          | 1   |      |
| 19    | 0010       | 85181       | BOLT                               |          | 2   |      |
| NS    | 0032       | 774572      | HOSE (48.00 Inches Bulk)           |          | 1   |      |

## Oil Regulator and Cooler

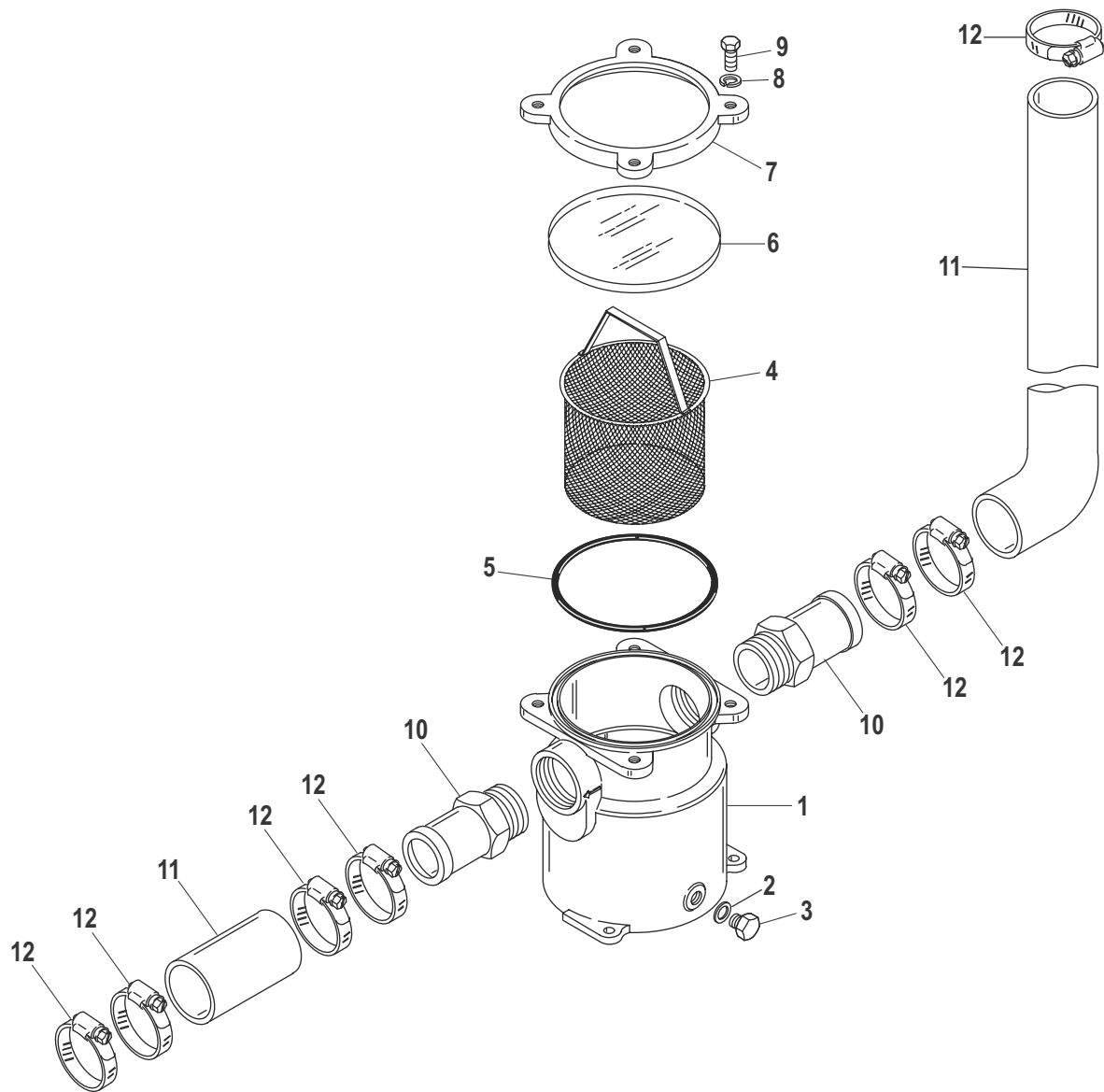


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## Oil Regulator and Cooler

| Ref # | Part Class | Part Number | Description                                   | Comments           | Qty | Note |
|-------|------------|-------------|-----------------------------------------------|--------------------|-----|------|
| 1     | 0000       | 862896A2    | REGULATOR ASSEMBLY Oil                        |                    | 1   |      |
| 2     | 0019       | 853411      | PLUG (.75-14)                                 |                    | 1   |      |
| 3     | 0022       | 853409      | CONNECTOR                                     |                    | 1   |      |
| 4     | 0022       | 802725      | FITTING Elbow (45 Degree)                     |                    | 1   |      |
| 5     | 0022       | 853408      | FITTING Elbow (90 Degree)                     |                    | 1   |      |
| 6     | 0010       | 853227      | SCREW (M8 x 30)                               |                    | 2   |      |
| 6     | 0010       | 853377      | SCREW (M8 x 60)                               |                    | 1   |      |
| 7     | 0027       | 853413      | GASKET                                        |                    | 1   |      |
| 8     | 0000       | 853400T1    | COOLER ASSEMBLY Oil                           |                    | 1   |      |
| 9     | 0022       | 853401      | FITTING Elbow (90 Degree)                     |                    | 2   |      |
| 10    | 0054       | 853420      | STRAP Oil Cooler                              |                    | 2   |      |
| 11    | 0032       | 853417      | HOSE Cooler to Engine                         |                    | 1   |      |
| 12    | 0032       | 802728      | HOSE Cooler to Regulator                      |                    | 1   |      |
| 13    | 0054       | 802792      | CLAMP                                         |                    | 1   |      |
| 14    | 0000       | 863608      | COVER Oil Outlet                              |                    | 1   |      |
| 15    | 0022       | 853401      | FITTING Elbow (90 Degree)                     |                    | 1   |      |
| 16    | 0027       | 853418      | GASKET Oil Cooler                             |                    | 1   |      |
| 17    | 0010       | 853227      | SCREW (M8 x 30)                               |                    | 2   |      |
| 18    | 0032       | 853422      | HOSE Seawater Pump to Air Cooler              |                    | 1   |      |
| 19    | 0054       | 815504226   | CLAMP Worm Gear                               |                    | 4   |      |
| 20    | 0032       | 853397      | HOSE Heat Exchanger to Oil Cooler             |                    | 1   |      |
| 21    | 0097       | 808112      | ANODE Zinc                                    |                    | 1   |      |
| 22    | 0000       | 862887      | BRACKET                                       |                    | 1   |      |
| 23    | 0010       | 4010830     | SCREW (M10 x 15) Hex Flange - Stainless Steel |                    | 3   |      |
| 24    | 0000       | 863148A3    | HEADER ASSEMBLY                               |                    | 1   |      |
| 25    | 0025       | 862895      | O-RING                                        |                    | 2   |      |
| 26    | 0010       | 40011151    | SCREW (M8 x 35) Stainless Steel               |                    | 3   |      |
| 27    | 0035       | 862889      | FILTER (7.5 Inch - 190.5 mm) Oil              | [0L391832] & Below | 1   |      |
| 27    | 0035       | 805809T     | FILTER (5.5 Inches - 139.7 mm) Oil            | [0L391833] & Up    | 1   |      |
| 28    | 0032       | 802729      | HOSE Filter to Regulator                      |                    | 2   |      |
| 29    | 0000       | 805267T     | SENDER Oil Pressure                           |                    | 1   |      |

# Seawater Filter

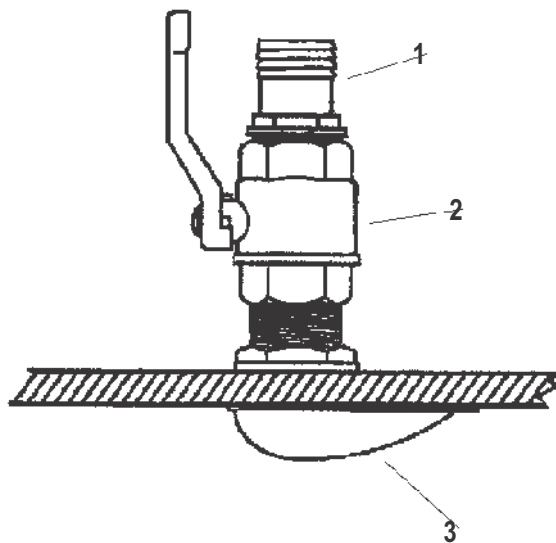


18262

## Seawater Filter

| Ref # | Part Class | Part Number | Description     | Comments | Qty | Note |
|-------|------------|-------------|-----------------|----------|-----|------|
| 1     | 0035       | 860603      | FILTER Seawater |          | 1   |      |
| 2     | 0010       | 801763853   | PLUG Drain      |          | 1   |      |
| 3     | 0012       | 809963201   | WASHER          |          | 1   |      |
| 4     | 0000       | 801763855   | ELEMENT Filter  |          | 1   |      |
| 5     | 0025       | 801763856   | O-RING          |          | 1   |      |
| 6     | 0000       | 801763857   | WINDOW          |          | 1   |      |
| 7     | 0000       | 801763858   | COVER           |          | 1   |      |
| 8     | 0010       | 801763859   | SCREW           |          | 2   |      |
| 9     | 0013       | 809930840   | LOCKWASHER      |          | 2   |      |
| 10    | 0022       | 816339      | NOZZLE          |          | 2   |      |
| 11    | 0032       | 816172      | HOSE            |          | 2   |      |
| 12    | 0054       | 815504224   | CLAMP Worm Gear |          | 7   |      |

## Thru-Hull Pick-Up and Sea Cock



4293

**Cat.# 90-88399001**

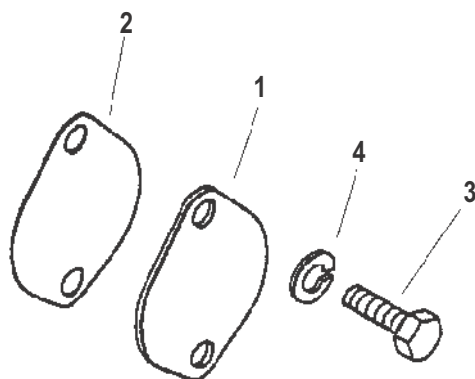
## Thru-Hull Pick-Up and Sea Cock

| Ref # | Part Class | Part Number | Description | Comments | Qty | Note |
|-------|------------|-------------|-------------|----------|-----|------|
| 1     | 0022       | 818172      | CONNECTOR   |          | 1   |      |
| 2     | 0020       | 818171T     | VALVE       |          | 1   |      |
| 3     | 0022       | 818170T     | FITTING     |          | 1   |      |

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Thru-Hull Pick-Up and Sea Cock

## Gimbal Housing Cover



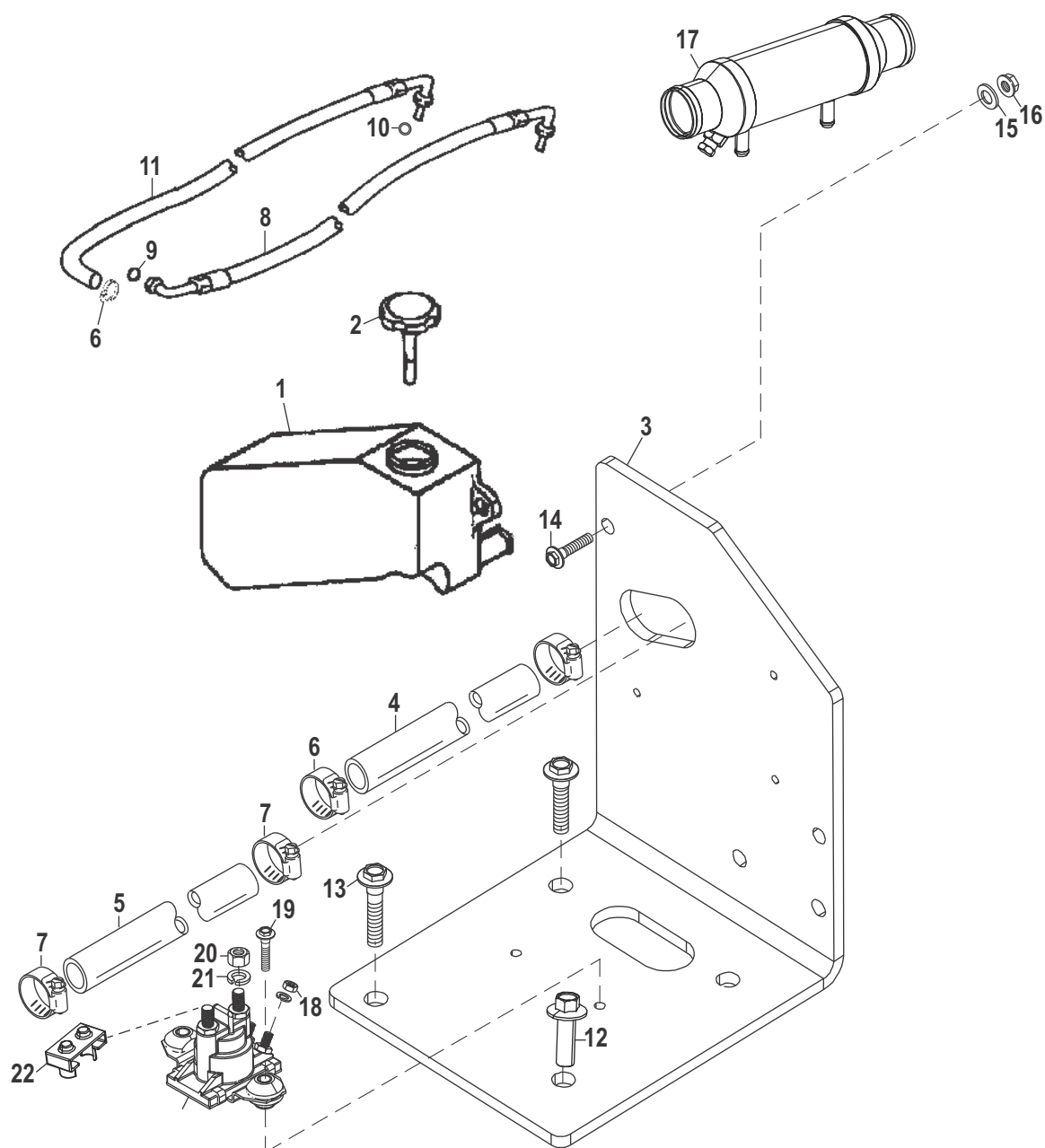
4294

**Cat.# 90-88399001**

## Gimbal Housing Cover

| Ref # | Part Class | Part Number | Description                       | Comments | Qty | Note |
|-------|------------|-------------|-----------------------------------|----------|-----|------|
| 1     | 0000       | 818304A1    | BLOCK OFF KIT                     |          | 1   |      |
| 2     | 0027       | 818305      | GASKET                            |          | 1   |      |
| 3     | 0010       | 28636       | SCREW (.250-20 x .750)            |          | 2   |      |
| 4     | 0013       | 26992       | LOCKWASHER (.250) Stainless Steel |          | 2   |      |

## Power Steering Reservoir

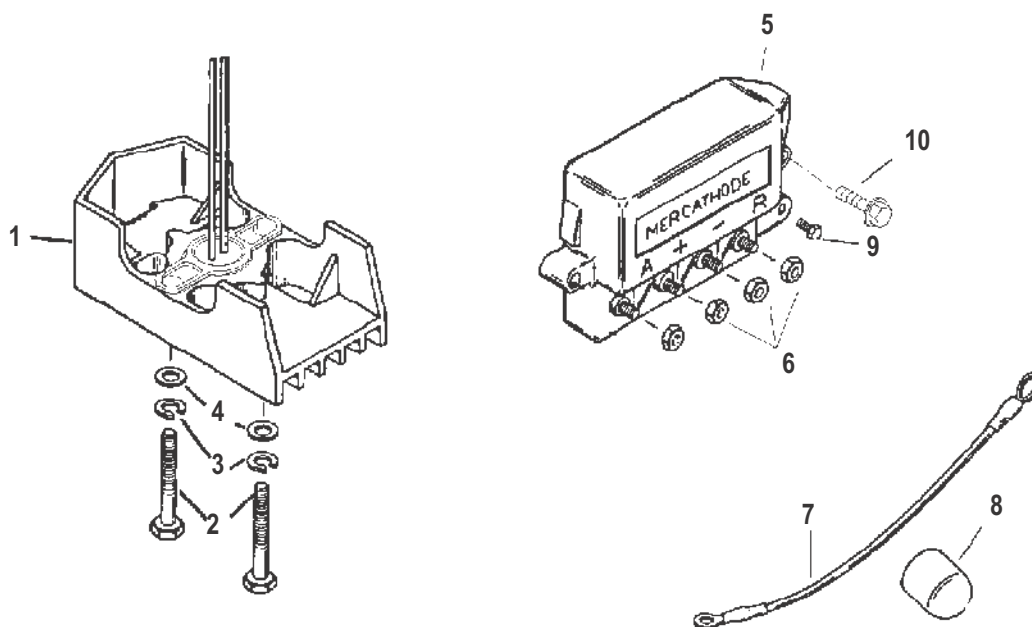


18265

## Power Steering Reservoir

| Ref # | Part Class | Part Number | Description                                                                | Comments | Qty | Note |
|-------|------------|-------------|----------------------------------------------------------------------------|----------|-----|------|
| 1     | 0000       | 806161A1    | RESERVOIR Power Steering                                                   |          | 1   |      |
| 2     | 0000       | 806216      | CAP                                                                        |          | 1   |      |
| 3     | 0000       | 853436      | BRACKET Reservoir                                                          |          | 1   |      |
| 4     | 0032       | 5251914     | HOSE (53.00 Inches Bulk) Pump to Oil Cooler - Return (Cooler to Reservoir) |          | 1   |      |
| 5     | 0032       | 806164      | HOSE Pump to Reservoir                                                     |          | 1   |      |
| 6     | 0054       | 815504104   | CLAMP Worm Gear                                                            |          | 3   |      |
| 7     | 0054       | 815504210   | CLAMP Worm Gear                                                            |          | 2   |      |
| 8     | 0032       | 80622216    | HOSE Pump to Cylinder                                                      |          | 1   |      |
| 9     | 0025       | 89879       | O-RING (.301 x .064)                                                       |          | 1   |      |
| 10    | 0025       | 806232      | O-RING (.239 x .064)                                                       |          | 1   |      |
| 11    | 0032       | 80622142    | HOSE ASSEMBLY (84.00 Inches Bulk) Return (Cylinder to Cooler)              |          | 1   |      |
| 12    | 0010       | 4010725     | SCREW (M8 x 25)                                                            |          | 2   |      |
| 13    | 0010       | 4010716     | SCREW (M8 x 16)                                                            |          | 2   |      |
| 14    | 0010       | 802775      | SCREW (M6 x 20)                                                            |          | 2   |      |
| 15    | 0012       | 853211      | WASHER                                                                     |          | 2   |      |
| 16    | 0011       | 802777      | NUT (M6)                                                                   |          | 2   |      |
| 17    | 0000       | 853476      | COOLER Power Steering                                                      |          | 1   |      |
| 18    | 0011       | 26419       | NUT (#8-32) Brass                                                          |          | 2   |      |
| 19    | 0010       | 802783      | SCREW (M6 x 25)                                                            |          | 2   |      |
| 20    | 0011       | 94330       | NUT (.250-20) Brass                                                        |          | 2   |      |
| 21    | 0012       | 35462       | WASHER (.2656 x .625 x .0625) Stainless Steel                              |          | 2   |      |
| 22    | 0085       | 97861       | INSULATOR                                                                  |          | 1   |      |

## Mercathode Components



4302

**Mercathode Components**

| Ref # | Part Class | Part Number | Description                                 | Comments | Qty | Note |
|-------|------------|-------------|---------------------------------------------|----------|-----|------|
| 1     | 0000       | 98869A17    | ELECTRODE ASSEMBLY                          |          | 1   |      |
| 2     | 0010       | 69067       | SCREW (.250-20 x 1.375)                     |          | 2   |      |
| 3     | 0013       | 26992       | LOCKWASHER (.250) Stainless Steel           |          | 2   |      |
| 4     | 0012       | 29245       | WASHER (.281 x .500 x .060) Stainless Steel |          | 2   |      |
| 5     | 0000       | 42600A3     | CONTROLLER ASSEMBLY                         |          | 1   |      |
| 6     | 0011       | 68219       | NUT (#10-32) Stainless Steel                |          | 4   |      |
| 7     | 0084       | 88543A3     | CABLE ASSEMBLY                              |          | 1   |      |
| 8     | 0000       | 44574       | CAP Plastic                                 |          | 2   |      |
| 9     | 0010       | 62568       | SCREW (#10-16 x .375)                       |          | 1   |      |
| 10    | 0010       | 802784      | SCREW (M5 x 20)                             |          | 2   |      |

## Instrumentation-Primary Station

## Instrumentation-Primary Station

| Ref # | Part Class | Part Number | Description                                        | Comments | Qty | Note |
|-------|------------|-------------|----------------------------------------------------|----------|-----|------|
| -     | 0000       | 853492A1    | PANEL KIT                                          |          |     |      |
| -     | 0000       | 850766A1    | INSTRUMENT KIT QSI                                 |          |     |      |
| -     | 0079       | 859703A1    | INSTRUMENT KIT Flagship                            |          |     |      |
| -     | 0000       | 850766A3    | INSTRUMENT KIT Admiral                             |          |     |      |
| -     | 0000       | 861014      | PANEL                                              |          |     |      |
| -     | 0087       | 805678      | KEY SWITCH                                         |          |     |      |
| -     | 0087       | 805675A1    | TOGGLE SWITCH                                      |          |     |      |
| -     | 0079       | 817033A1    | TRIM GAUGE KIT                                     |          |     |      |
| -     | 0079       | 817032A1    | BATTERY GAUGE KIT                                  |          |     |      |
| -     | 0079       | 805288A1    | GAUGE KIT Water Temperature                        |          |     |      |
| -     | 0079       | 805287A1    | OIL PRESSURE GAUGE KIT                             |          |     |      |
| -     | 0079       | 805289A1    | TACHOMETER GAUGE KIT                               |          |     |      |
| -     | 0079       | 818163A1    | CRUISELOG GAUGE KIT                                |          |     |      |
| -     | 0000       | 817315      | BEZEL                                              |          |     |      |
| -     | 0000       | 817311      | BEZEL Tachometer                                   |          |     |      |
| -     | 0000       | 817309      | BRACKET                                            |          |     |      |
| -     | 0000       | 817308      | BRACKET Tachometer                                 |          |     |      |
| -     | 0011       | 26419       | NUT (#8-32) Brass                                  |          |     |      |
| -     | 0084       | 860618      | HARNESS ASSEMBLY Instrument                        |          |     |      |
| -     | 0084       | 860615002   | HARNESS ASSEMBLY (13 Feet)<br>Instrument Extension |          |     |      |
| -     | 0084       | 860616002   | HARNESS ASSEMBLY (23 Feet)<br>Instrument Extension |          |     |      |

## Instrumentation and Accessories-Remote Station

## Instrumentation and Accessories-Remote Station

| Ref # | Part Class | Part Number | Description                                       | Comments       | Qty | Note |
|-------|------------|-------------|---------------------------------------------------|----------------|-----|------|
| -     | 0000       | 850769A1    | INSTRUMENT KIT QSI                                |                |     |      |
| -     | 0079       | 859706A1    | INSTRUMENT KIT Flagship                           |                |     |      |
| -     | 0000       | 850769A3    | INSTRUMENT KIT Admiral                            |                |     |      |
| -     | 0000       | 807003A1    | GAUGE KIT QSI                                     |                |     |      |
| -     | 0079       | 859707A1    | GAUGE KIT Flagship                                |                |     |      |
| -     | 0000       | 807003A3    | GAUGE KIT Admiral                                 |                |     |      |
| -     | 0000       | 805134A3    | SENDER ASSEMBLY Trim                              |                |     |      |
| -     | 0000       | 49734       | SENDER                                            | (Dual Station) |     |      |
| -     | 0000       | 805268      | SENDER Oil Pressure                               | (Dual Station) |     |      |
| -     | 0000       | 850769A1    | INSTRUMENT KIT                                    |                |     |      |
| -     | 0087       | 805677      | SWITCH Stop                                       |                |     |      |
| -     | 0087       | 805676A1    | SWITCH Start                                      |                |     |      |
| -     | 0087       | 805675A1    | TOGGLE SWITCH                                     |                |     |      |
| -     | 0079       | 805289A1    | TACHOMETER GAUGE KIT                              |                |     |      |
| -     | 0000       | 853454      | RELAY Remote Stop                                 |                |     |      |
| -     | 0084       | 860617002   | HARNESS ASSEMBLY Instrument                       |                |     |      |
| -     | 0084       | 860618      | HARNESS ASSEMBLY Instrument Instrument            |                |     |      |
| -     | 0084       | 860615002   | HARNESS ASSEMBLY (13 Feet) Instrument Extension   |                |     |      |
| -     | 0084       | 860616002   | HARNESS ASSEMBLY (23 Feet) Instrument Extension   |                |     |      |
| -     | 0000       | 58366T2     | HARNESS KIT Power Trim                            |                |     |      |
| -     | 0000       | 46838A4     | HARNESS ASSEMBLY Trim Control Extension (10 feet) |                |     |      |
| -     | 0000       | 46838A6     | HARNESS ASSEMBLY Trim Control Extension (20 feet) |                |     |      |
| -     | 0032       | 97010A2     | EXTENSION KIT Trim Pump (6 feet)                  |                |     |      |
| -     | 0092       | 802878Q1    | PAINT Black - Spray Can                           |                |     | [1]  |
| -     | 0092       | 802854Q1    | GEAR LUBE (32 oz. Bottle)                         |                |     | [2]  |
| -     | 0092       | 813054A2    | COOLANT Antifreeze Marine                         |                |     |      |
| -     | 0000       | 806381A1    | TIE BAR (Adjusts from 36 to 55 Inches)            |                |     |      |
| -     | 0000       | 98869A14    | MERCATHODE SYSTEM                                 |                |     |      |
| -     | 0035       | 850481A1    | FILTER KIT Water Separating (.75 Inch Thread)     |                |     |      |
| -     | 0035       | 809867      | RACOR FILTER Water Separating (14mm Thread)       |                |     |      |
| -     | 0035       | 809868T     | ELEMENT Fuel Filter                               |                |     |      |
| -     | 0000       | 862972A1    | HEATER KIT Water                                  |                |     |      |
| -     | 0035       | 860603      | FILTER Sea Water                                  |                |     |      |
| -     | 0022       | 816339      | NOZZLE Thru Hull                                  |                |     |      |
| -     | 0000       | 88845A2     | PICK UP KIT Water Thru Transom                    |                |     |      |
| -     | 0000       | 802713      | RISER KIT (6 Inch)                                |                |     |      |

## Instrumentation and Accessories-Remote Station

## Instrumentation and Accessories-Remote Station

**PART NOTES:**

- [1]        -    Alternate part numbers:  
              802878 1MPP  
              802878Q 1QS
- [2]        -    Alternate part numbers:  
              802854A 1MPP  
              802854Q 1QS

**RESOURCE NOTES:**

**OTC DIVISION, SPX CORP.: 655 EISENHOWER DRIVE; OWATONNA, MINNESOTA 55060; PHONE: 507-455-7244; FAX: 800-283-8665**

## Tools

| Ref # | Part Class | Part Number | Description                              | Comments        | Qty | Note |
|-------|------------|-------------|------------------------------------------|-----------------|-----|------|
| -     |            | SEEOTC#     | SEE OTC NUMBER Cylinder Head             | OTC # ZTSE4297  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER                           | OTC # ZTSE2482A |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Compression Gauge         | OTC # ZTSE4292  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Valve                     | OTC # ZTSE2241  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Valve                     | OTC # ZTSE4298  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Injector                  | OTC # ZTSE4302  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Injector (Front)          | OTC # ZTSE4300  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Injector                  | OTC # ZTSE4303  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Injector                  | OTC # ZTSE4301  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Injector                  | OTC # ZTSE4304  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Injector Sleeve           | OTC # ZTSE4305  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Cylinder Head Coolant     | OTC # ZTSE4308  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Cylinder Head Bolt        | OTC # ZTSE43862 |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Injector                  | OTC # ZTSE4299  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Cleaning                  | OTC # ZTSE4320  |     |      |
| NS    | 0091       | 854264      | REMOVER Injector                         | OTC # ZTSE4354  |     |      |
| NS    | 0091       | 854265      | INSTALLER Injector                       | OTC # ZTSE4353  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Damper Wear               | OTC # ZTSE4314  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Damper Wear               | OTC # ZTSE4315  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Damper and Front          | OTC # ZTSE4310  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Hydraulic Valve           | OTC # ZTSE1893  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER                           | OTC # ZTSE4349  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Crankcase CUP             | OTC # ZTSE4309  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Rod                       | OTC # ZTSE4311  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Camshaft                  | OTC # ZTSE2393C |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Keystone                  | OTC # ZTSE30201 |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Front Crankshaft Oil      | OTC # ZTSE4310  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Crankshaft Wear           | OTC # ZTSE4317  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Crankshaft Wear           | OTC # ZTSE4318  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Engine                    | OTC # ZTSE4291  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER High Pressure Oil         | OTC # ZTSE4295  |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Fuel System               | OTC # ZTSE4294  |     |      |
| 1     | 0091       | 854266      | LEAK TEST TOOL Injector Control Pressure | OTC # EG-132    |     |      |
| 2     | 0091       | 854267      | HARNESS ASSEMBLY Test Glow Plug/Injector | OTC # ZTSE4345  |     |      |
| 3     | 0091       | 854268      | PRESSURE TEST KIT Pressure               | OTC # ZTSE2239  |     |      |



## Tools

| Ref # | Part Class | Part Number | Description                                         | Comments          | Qty | Note |
|-------|------------|-------------|-----------------------------------------------------|-------------------|-----|------|
| 4     | 0091       | 854269      | HARNESS ASSEMBLY Test<br>Injection Control Pressure | OTC # ZTSE4347    |     |      |
| 5     | 0091       | 854270      | ORFICE RESTRICTOR<br>Crankcase                      | OTC # ZTSE4146-A  |     |      |
| 6     | 0091       | 854271      | ADAPTER Crankcase                                   | OTC # ZTSE4284    |     |      |
| -     |            | SEEOTC#     | SEE OTC NUMBER Exhaust Back<br>Pressure             | OTC # ZTSE4347    |     |      |
| 7     | 0091       | 854272      | BREAK OUT BOX                                       | OTC # ZTSE4346    |     |      |
| 8     | 0091       | 854273A1    | DIAGNOSTIC TOOL KIT (Rhinda<br>Prolink 9000)        | OTC # ZTSE43661   |     |      |
| 9     |            | SEEOTC#     | SEE OTC NUMBER                                      | OTC # ZTSE43667   |     |      |
| 10    |            | SEEOTC#     | SEE OTC NUMBER                                      | OTC # ZTSE436633A |     |      |
| 11    |            | SEEOTC#     | SEE OTC NUMBER                                      | OTC # ZTSE501003  |     |      |

# PARTS INDEX

| Part No.  | Description                                       | Pg. | Ref.no | Part No.  | Description                                                                | Pg. | Ref.no |
|-----------|---------------------------------------------------|-----|--------|-----------|----------------------------------------------------------------------------|-----|--------|
| 12657     | TAB WASHER                                        | 36  | 17     | 13743     | SCREW (.312-18 x 1.843)                                                    | 32  | 14     |
| 138981    | LEVER Shift                                       | 32  | 13     | 16739     | CONNECTOR                                                                  | 28  | 27     |
| 18825A2   | PUMP ASSEMBLY Power Steering                      | 46  | 26     | 20572     | WASHER (.390 x .750 x .093)                                                | 36  | 10     |
| 20572     | WASHER (.390 x .750 x .093)                       | 46  | 4      | 210711    | COTTER PIN                                                                 | 32  | 16     |
| 24664     | WASHER (M4 x 20)                                  | 40  | 20     | 26419     | NUT (#8-32) Brass                                                          | 60  | 18     |
| 26419     | NUT (#8-32) Brass                                 | 64  | -      | 26992     | LOCKWASHER (.250) Stainless Steel                                          | 40  | 38     |
| 26992     | LOCKWASHER (.250) Stainless Steel                 | 58  | 4      | 26992     | LOCKWASHER (.250) Stainless Steel                                          | 62  | 3      |
| 26996     | LOCKWASHER (#10) Stainless Steel                  | 18  | 16     | 26996     | LOCKWASHER (#10) Stainless Steel                                           | 40  | 23     |
| 26996     | LOCKWASHER (#10) Stainless Steel                  | 48  | 30     | 28636     | SCREW (.250-20 x .750)                                                     | 58  | 3      |
| 29245     | WASHER (.281 x .500 x .060) Stainless Steel       | 40  | 17     | 29245     | WASHER (.281 x .500 x .060) Stainless Steel                                | 40  | 39     |
| 29245     | WASHER (.281 x .500 x .060) Stainless Steel       | 62  | 4      | 32219     | NUT (.375-16)                                                              | 36  | 12     |
| 328571    | COTTER PIN                                        | 32  | 6      | 33465     | O-RING                                                                     | 18  | 21     |
| 34352     | SCREW (.375-24 x .875)                            | 24  | 3      | 34353     | SCREW (.375-16 x 1.00)                                                     | 46  | 3      |
| 34931     | WASHER (.406 x .734 x .063) Stainless Steel       | 24  | 4      | 34931     | WASHER (.406 x .734 x .063) Stainless Steel                                | 46  | 24     |
| 35462     | WASHER (.2656 x .625 x .0625) Stainless Steel     | 32  | 9      | 35462     | WASHER (.2656 x .625 x .0625) Stainless Steel                              | 60  | 21     |
| 390721    | PLUG Pipe (.125-27) Brass                         | 28  | 15     | 40001192  | SCREW (M10 x 25)                                                           | 10  | 19     |
| 4000355   | SCREW (M8 x 35)                                   | 28  | 28     | 40011151  | SCREW (M8 x 35) Stainless Steel                                            | 24  | 39     |
| 40011151  | SCREW (M8 x 35) Stainless Steel                   | 52  | 26     | 400211    | NUT (M5) Stainless Steel                                                   | 40  | 4      |
| 4002317   | WASHER (8.90 X 17.0 X 1.9SS)                      | 10  | 17     | 4002317   | WASHER (8.90 X 17.0 X 1.9SS)                                               | 46  | 15     |
| 400248    | LOCKWASHER (M10)                                  | 36  | 20     | 4009416   | SCREW (M6 x 16)                                                            | 40  | 8      |
| 4009416   | SCREW (M6 x 16)                                   | 40  | 32     | 4009416   | SCREW (M6 x 16)                                                            | 44  | 8      |
| 4009760   | SCREW (M12 x 60)                                  | 36  | 7      | 4010716   | SCREW (M8 x 16)                                                            | 60  | 13     |
| 4010725   | SCREW (M8 x 25)                                   | 60  | 12     | 4010816   | SCREW (M10 x 16) Hex Flange - Stainless Steel                              | 34  | 26     |
| 4010830   | SCREW (M10 x 15) Hex Flange - Stainless Steel     | 36  | 22     | 4010830   | SCREW (M10 x 15) Hex Flange - Stainless Steel                              | 52  | 23     |
| 41471     | LOCKWASHER (.375)                                 | 30  | 3      | 42600A3   | CONTROLLER ASSEMBLY                                                        | 40  | 21     |
| 42600A3   | CONTROLLER ASSEMBLY                               | 62  | 5      | 44574     | CAP Plastic                                                                | 62  | 8      |
| 46838A4   | HARNESS ASSEMBLY Trim Control Extension (10 feet) | 66  | -      | 46838A6   | HARNESS ASSEMBLY Trim Control Extension (20 feet)                          | 66  | -      |
| 47461     | SCREW (.437-14 x 1.00)                            | 10  | 19     | 48556     | BUSHING Reducer (.250 To .125)                                             | 24  | 12     |
| 48556     | BUSHING Reducer (.250 To .125)                    | 28  | 21     | 49734     | SENDER Water Temperature (Dual Station)                                    | 18  | 15     |
| 49734     | SENDER                                            | 66  | -      | 5251914   | HOSE (53.00 Inches Bulk) Pump to Oil Cooler - Return (Cooler to Reservoir) | 60  | 4      |
| 53167     | SCREW (.312-18 x .880)                            | 32  | 5      | 56720     | WASHER (.330 x .750 x .060) Stainless Steel                                | 32  | 8      |
| 58366T2   | HARNESS KIT Power Trim                            | 66  | -      | 58640     | SCREW (.375-16 x 1.25)                                                     | 30  | 2      |
| 62568     | SCREW (#10-16 x .375)                             | 40  | 25     | 62568     | SCREW (#10-16 x .375)                                                      | 62  | 9      |
| 62826A6   | CABLE ASSEMBLY Ground (13.00 Inches) Black Ground | 36  | 11     | 63341     | TEE NUT                                                                    | 32  | 12     |
| 68219     | NUT (#10-32) Stainless Steel                      | 18  | 17     | 68219     | NUT (#10-32) Stainless Steel                                               | 40  | 24     |
| 68219     | NUT (#10-32) Stainless Steel                      | 40  | 26     | 68219     | NUT (#10-32) Stainless Steel                                               | 62  | 6      |
| 68402     | PIN (.250 x 1.13) Clevis                          | 32  | 15     | 69067     | SCREW (.250-20 x 1.375)                                                    | 40  | 37     |
| 69067     | SCREW (.250-20 x 1.375)                           | 62  | 2      | 7003      | HOUSING Rear                                                               | 48  | 22     |
| 7004      | FAN                                               | 48  | 4      | 7006      | RING Retaining (Front)                                                     | 48  | 9      |
| 7007      | RETAINER Ball                                     | 48  | 8      | 7009      | DIODE Rectifier (Negative)                                                 | 48  | 14     |
| 7013      | GASKET                                            | 48  | 26     | 7014      | SLIP RING                                                                  | 48  | 12     |
| 7017      | RING Retaining (Rear)                             | 48  | 11     | 7020      | SLEEVE                                                                     | 48  | 19     |
| 7023      | INSULATOR                                         | 48  | 20     | 7024      | WASHER                                                                     | 48  | 16     |
| 7027      | NUT                                               | 48  | 1      | 7034      | KEY                                                                        | 48  | 5      |
| 71587A10  | RECOVERY KIT Coolant                              | 50  | 15     | 71587A11  | BOTTLE Plastic                                                             | 50  | 16     |
| 71614     | GASKET                                            | 50  | 18     | 72058     | CAP                                                                        | 50  | 17     |
| 73379     | PLUG (.250-18) Drain                              | 16  | 2      | 774572    | HOSE (48.00 Inches Bulk)                                                   | 50  | NS     |
| 801763853 | PLUG Drain                                        | 54  | 2      | 801763855 | ELEMENT Filter                                                             | 54  | 4      |
| 801763856 | O-RING                                            | 54  | 5      | 801763857 | WINDOW                                                                     | 54  | 6      |
| 801763858 | COVER                                             | 54  | 7      | 801763859 | SCREW                                                                      | 54  | 8      |
| 802713    | RISER KIT (6 Inch)                                | 66  | -      | 802716    | HOSE                                                                       | 34  | 15     |
| 802718    | BRACKET                                           | 24  | 41     | 802719    | CLAMP                                                                      | 24  | 38     |
| 802721    | HOSE                                              | 24  | 22     | 802725    | FITTING Elbow (45 Degree)                                                  | 52  | 4      |
| 802728    | HOSE Cooler to Regulator                          | 52  | 12     | 802729    | HOSE Filter to Regulator                                                   | 52  | 28     |
| 802763    | LONG BLOCK ENGINE                                 | 6   | -      | 802773    | SCREW (.312-18 x 1.250)                                                    | 10  | 16     |
| 802774    | CONDUIT                                           | 20  | 18     | 802775    | SCREW (M6 x 20)                                                            | 60  | 14     |
| 802776    | SCREW (M4 x 16)                                   | 34  | 22     | 802777    | NUT (M6)                                                                   | 40  | 10     |
| 802777    | NUT (M6)                                          | 40  | 34     | 802777    | NUT (M6)                                                                   | 60  | 16     |
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| 802783    | SCREW (M6 x 25)                           | 40  | 12     | 802783    | SCREW (M6 x 25)                                               | 60  | 19     |
| 802784    | SCREW (M5 x 20)                           | 40  | 3      | 802784    | SCREW (M5 x 20)                                               | 40  | 22     |
| 802784    | SCREW (M5 x 20)                           | 62  | 10     | 802785    | SCREW (M8 x 150)                                              | 34  | 4      |
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| 805781    | NUT (.375-16)                             | 46  | 25     | 805794    | NUT (M10)                                                     | 36  | 21     |
| 805809T   | FILTER (5.5 Inches - 139.7 mm) Oil        | 52  | 27     | 805816    | CLAMP                                                         | 28  | 19     |
| 805833T   | STARTER MOTOR ASSEMBLY                    | 36  | 19     | 805833T   | STARTER MOTOR ASSEMBLY                                        | 38  | -      |
| 805835    | PUMP Seawater                             | 46  | 1      | 805839    | HOSE                                                          | 24  | 19     |
| 805842    | GASKET                                    | 24  | 2      | 805846    | ELBOW (1 NPT x 1.25 Hose Bib)                                 | 24  | 14     |
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| 806164    | HOSE Pump to Reservoir                    | 60  | 5      | 806193A51 | MONITOR ASSEMBLY Drive Lube                                   | 34  | 18     |
| 806216    | CAP                                       | 60  | 2      | 80622142  | HOSE ASSEMBLY (84.00 Inches Bulk) Return (Cylinder to Cooler) | 60  | 11     |
| 80622216  | HOSE Pump to Cylinder                     | 60  | 8      | 806232    | O-RING (.239 x .064)                                          | 60  | 10     |
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| 808108    | CAP Heat Exchanger                        | 50  | 13     | 808110    | PIN Dowel Cylinder Head                                       | 4   | 6      |
| 808112    | ANODE Zinc                                | 34  | 28     | 808112    | ANODE Zinc                                                    | 50  | 2      |
| 808112    | ANODE Zinc                                | 52  | 21     | 808116    | SPRING Valve (With Damper)                                    | 8   | 8      |
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| 853033    | PLUG (.250-18)                          | 4   | 8      | 853033    | PLUG (.250-18) Drain                          | 4   | 12     |
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| 853041    | PLUG CUP                                | 8   | 16     | 853042    | GUIDE Cam Follower                            | 12  | 8      |
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| 853139A1  | GASKET SET                                     | 8   | -      | 853142   | PUMP                                | 20  | 26     |
| 853144    | O-RING                                         | 8   | -      | 853145T1 | MANIFOLD ASSEMBLY Exhaust Starboard | 22  | 1      |
| 853146    | TUBE Hose Connector                            | 22  | 3      | 853147   | SCREW (M10 x 90)                    | 22  | 4      |
| 853148T1  | MANIFOLD ASSEMBLY Exhaust Port                 | 22  | 2      | 853150   | CONNECTOR                           | 20  | 21     |
| 853151    | GASKET Exhaust Manifold                        | 22  | 5      | 853152   | GASKET Exhaust (Rear)               | 22  | 6      |
| 853153A1  | MANIFOLD ASSEMBLY Rear                         | 22  | 7      | 853155   | SCREW (M10 x 140)                   | 22  | 9      |
| 853155    | SCREW (M10 x 140)                              | 46  | 6      | 853156   | SCREW (M8 x 50)                     | 46  | 7      |
| 853157    | GASKET Turbocharger                            | 22  | 13     | 853158T  | HOUSING Worm Gear                   | 24  | 1      |
| 853159    | O-RING                                         | 24  | 8      | 853160   | O-RING                              | 24  | 9      |
| 853162    | PIPE Power Steering                            | 24  | 7      | 853164T  | TURBOCHARGER                        | 24  | 11     |
| 853166    | GASKET                                         | 26  | 46     | 853167A1 | ELBOW ASSEMBLY Exhaust              | 24  | 13     |
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| 853170    | CLAMP (8.00 Inches)                            | 24  | 17     | 853172   | CLAMP                               | 24  | 18     |
| 853173    | ELBOW                                          | 24  | 20     | 853173   | ELBOW                               | 34  | 33     |
| 853175    | TEE                                            | 24  | 26     | 853175   | TEE                                 | 24  | 27     |
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| 853194    | CLAMP                                          | 44  | 11     | 853195   | SENSOR (ICP, ECM Input)             | 44  | 12     |
| 853197    | CLAMP                                          | 44  | 14     | 853198   | SEAL                                | 44  | 15     |
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| 853203    | SENDER Air Temperature                         | 34  | 23     | 853203   | SENDER (Oil Temperature, ECM Input) | 44  | 13     |
| 853203    | SENDER (Engine Coolant Temperature, ECM Input) | 44  | 18     | 853204   | SENSOR (Cam Position, ECM Input)    | 44  | 19     |
| 853205    | TAPPET                                         | 20  | 22     | 853206   | O-RING Cam Sensor                   | 44  | -      |
| 853207    | SEAL Cam Sensor                                | 44  | -      | 853208   | HOUSING Thermostat                  | 18  | 8      |
| 853210    | SCREW (M6 x 45)                                | 18  | 10     | 853211   | WASHER                              | 40  | 9      |
| 853211    | WASHER                                         | 40  | 33     | 853211   | WASHER                              | 60  | 15     |
| 853212    | SEAL                                           | 18  | 12     | 853213   | THERMOSTAT                          | 18  | 13     |
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| 853219   | SCREW (M8 x 25)                           | 46  | 17     | 853221   | PULLEY Water Pump                   | 18  | 22     |
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| 853226   | SCREW (M8 x 100)                          | 18  | 2      | 853226   | SCREW (M8 x 100)                    | 34  | 2      |
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| 853227   | SCREW (M8 x 30)                           | 52  | 6      | 853227   | SCREW (M8 x 30)                     | 52  | 17     |
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| 853442   | SCREW (M8 x 16) Heat Exchanger            | 50  | 12     | 853445   | SCREW (M10 x 16)                    | 50  | 6      |
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| SEEOTC#  | SEE OTC NUMBER Hydraulic Valve              | 70  | -      | SEEOTC#  | SEE OTC NUMBER                          | 70  | -      |
| SEEOTC#  | SEE OTC NUMBER Crankcase CUP                | 70  | -      | SEEOTC#  | SEE OTC NUMBER Rod                      | 70  | -      |
| SEEOTC#  | SEE OTC NUMBER Camshaft                     | 70  | -      | SEEOTC#  | SEE OTC NUMBER Keystone                 | 70  | -      |
| SEEOTC#  | SEE OTC NUMBER Front Crankshaft Oil         | 70  | -      | SEEOTC#  | SEE OTC NUMBER Crankshaft Wear          | 70  | -      |
| SEEOTC#  | SEE OTC NUMBER Crankshaft Wear              | 70  | -      | SEEOTC#  | SEE OTC NUMBER Engine                   | 70  | -      |
| SEEOTC#  | SEE OTC NUMBER High Pressure Oil            | 70  | -      | SEEOTC#  | SEE OTC NUMBER Fuel System              | 70  | -      |
| SEEOTC#  | SEE OTC NUMBER Exhaust Back Pressure        | 72  | -      | SEEOTC#  | SEE OTC NUMBER                          | 72  | 9      |
| SEEOTC#  | SEE OTC NUMBER                              | 72  | 10     | SEEOTC#  | SEE OTC NUMBER                          | 72  | 11     |