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# MARINE DIESEL PARTS MANUAL

**MODEL**

**M-18**

**PART NUMBER**

**200139**



# UNIVERSAL DIESEL FAST MOVING PARTS

Model: M-18      Number of cylinders: 2      Mfg. Years: 1983-1988  
Cubic Inches: 34.8      Horsepower: 14      Weight: 255

|                         |   |            |                            |   |               |
|-------------------------|---|------------|----------------------------|---|---------------|
| Air Filter              | - | 299750     | Oil Pressure Switch        | - | 298663        |
| Air Filter Element      | - | N/A        | Panel, Standard            | - | 300680        |
| Alternator              | - | 302280     | Panel, Deluxe              | - | 300685        |
| Ammeter                 | - | 300668     | Panel, Custom              | - | 300690        |
| Belt                    | - | 300817     | Pump, Fresh Water          | - | 300203        |
| Dipstick                | - | 299377     | Pump, Mounting Gasket      | - | 300204        |
| Exhaust Manifold        | - | 301013     | Pump, Rebuild Kit          | - | N/A           |
| Exhaust Manifold Gasket | - | 299435 (2) | Pump, Sea Water            | - | 302648 (C)    |
| Filter, Lube Oil        | - | 300209     | Pump Mounting Gasket       | - | 302678        |
| Filter, Fuel Oil        | - | 298854     | Pump, Impeller             | - | 302875        |
| Filter, Electric Lift   | - | 300128     | Pump, Repair Kit           | - | N/A           |
| Gasket, Head            | - | 301118     | Pump, Seal                 | - | 302885        |
| Gasket, Oil Pan         | - | 299367     | Pump Conversion Kit        |   |               |
| Gasket Set, Upper       | - | 256837     | (includes pump)            | - | 302837        |
| Gasket Set, Complete    | - | 256838     | Pump Conversion Kit        |   |               |
| Glow Plug               | - | 301754     | (excludes pump)            | - | 302838        |
| Harness, 5 FT. EXT.     | - | 300708     | PTO Pulley Kit             | - | N/A           |
| Harness, 10 FT. EXT.    | - | 300675     | Pump, Fuel Lift            | - | 301385        |
| Harness, Engine         | - | 298586     | Shim, Cylinder Head        | - | 301119        |
| (A) Heat Exchanger      | - | SEE BELOW  | Spare Parts Kit A          | - | 256946        |
| Heat Exchanger End Cap  | - | 299838     | Spare Parts Kit B          | - | 256830        |
| Heat Exchanger Gasket   | - | 299838     | Starter                    | - | 299512        |
| (B) Injector            | - | SEE BELOW  | Starter Solenoid           | - | SEE BELOW (D) |
| Injection Pump          | - | 299525     | Tachometer                 | - | 300684        |
| Injection Hardware Kit  | - | N/A        | Tachometer with Hour Meter | - | 300687        |
| Injector Nozzle         | - | 301514     | Tank, Coolant Recovery     | - | 300238        |
| Injector Return Line    | - | 299520     | Thermostat Element         | - | 301358        |
| Isolators               | - | 300514     | Thermostat Element Gasket  | - | N/A           |
| Ignition Switch         | - | 300671     | Thermostat MTG Gasket      | - | 300237        |
| Manuals, Operators      | - | 200157     | Valve Cover Gasket         | - | 299456        |
| Manuals, Parts          | - | 200139     | Water Temp Meter           | - | 300670        |
| Manuals, Technical      | - | 200155     | Water Temp Sender          | - | 299066        |
| Oil Drain Washer Kit    | - | 301431     | Water Injected Elbow       | - | N/A           |
| Oil Pump                | - | 299405     | Zinc                       | - | 301069        |

## Notes:

- A.) P/N 298663 IS THE OLDER STYLE EXCHANGER AND 299049 IS LATEST STYLE (2")  
 B.) QTY - 1 298787 AND QTY - 1 P/N 298788 USED PER ENGINE.  
 C.) NEW STYLE SHERWOOD PUMP - INFORMATION ON OLD STYLE SHERWOOD AND OBERDORFER AVAILABLE IN PARTS MANUALS.  
 D.) P/N 300538 WITH STUDS OR P/N 299771 WITH SCREWS.





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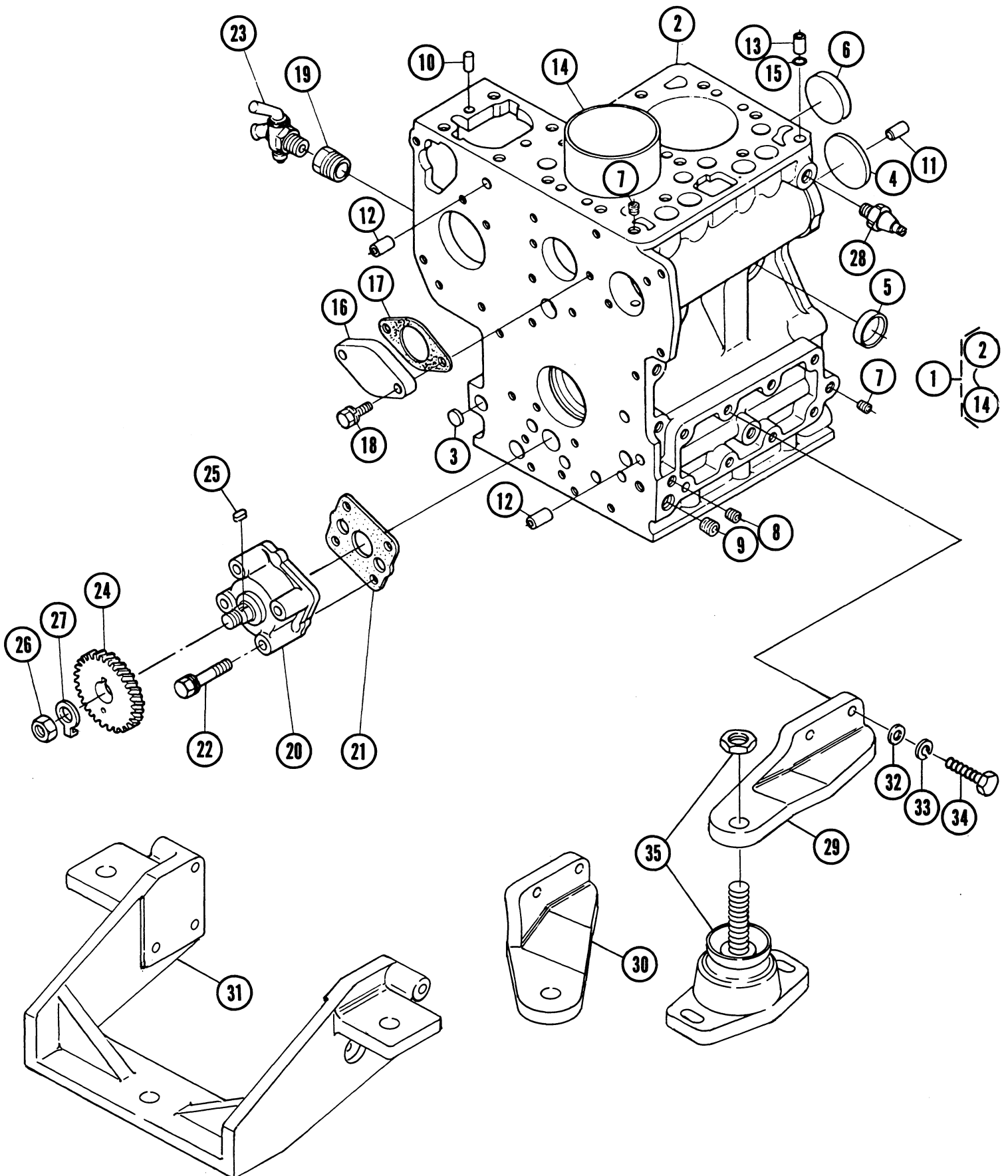
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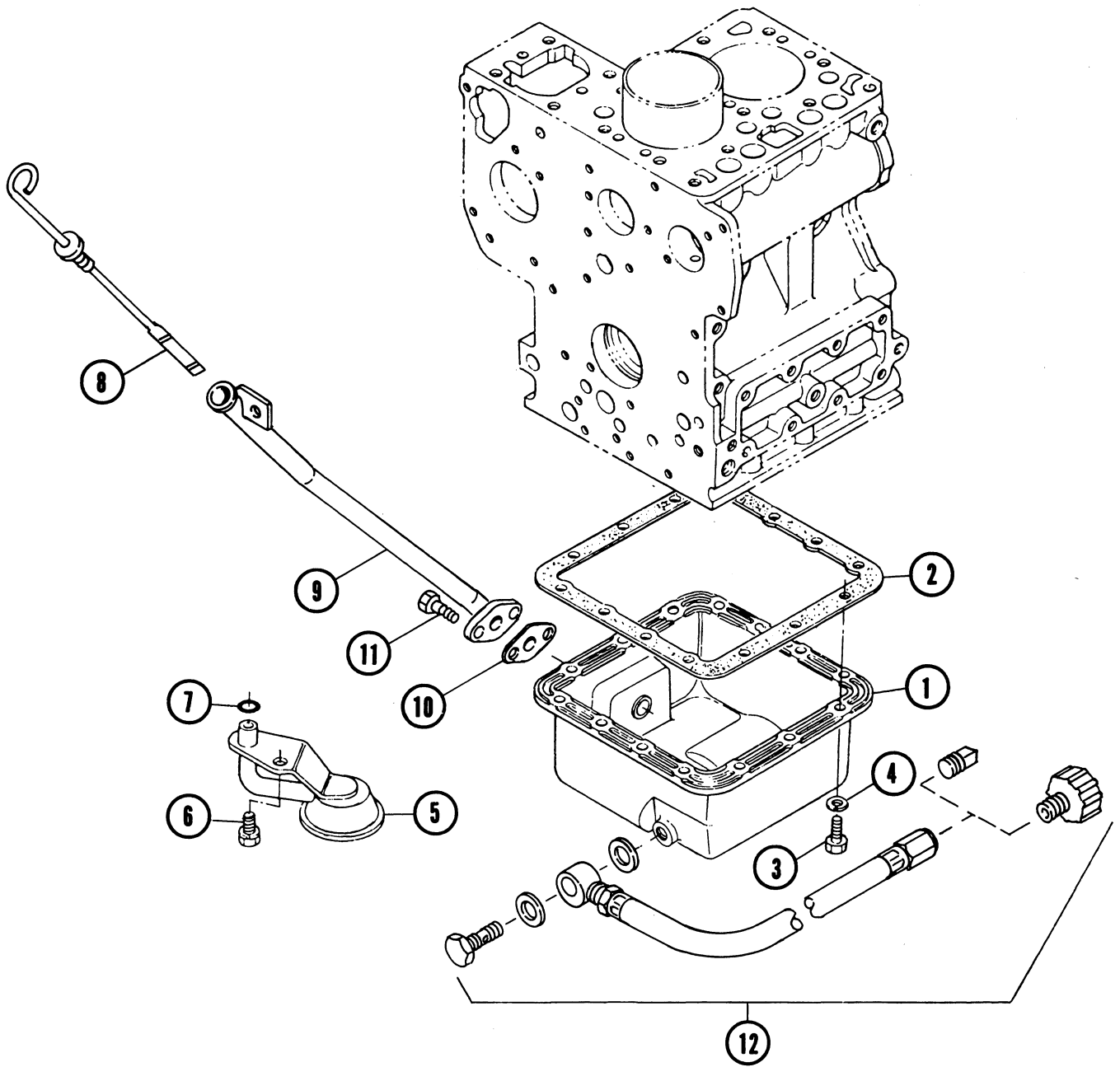
# CRANK CASE GROUP



# CRANK CASE GROUP

| Item | Part No. | Unit | Description                             |
|------|----------|------|-----------------------------------------|
| 1    | 301150   | 1    | Crankcase Assembly                      |
| 2    |          |      | Order by Item No. 1                     |
| 3    | 299352   | 3    | Plug, Expansion                         |
| 4    | 299353   | 4    | Plug, Expansion                         |
| 5    | 299354   | 3    | Cap, Sealing Freeze                     |
| 6    | 299355   | 1    | Cap, Sealing Freeze                     |
| 7    | 299356   | 5    | Plug                                    |
| 8    | 299357   | 3    | Plug                                    |
| 9    | 299358   | 1    | Plug                                    |
| 10   | 299359   | 2    | Pin, Straight                           |
| 11   | 299360   | 2    | Pin, Straight                           |
| 12   | 301484   | 2    | Pin, Pipe                               |
| 13   | 301485   | 1    | Pin, Pipe                               |
| 14   | 300130   | 2    | Liner, Cylinder                         |
| 15   | 299362   | 1    | O-Ring                                  |
| 16   | 299363   | 1    | Cover, Water                            |
| 17   | 299364   | 1    | Gasket, Water Cover                     |
| 18   | 299365   | 2    | Bolt                                    |
| 19   | 301522   | 1    | Bushing, Drain Cock                     |
| 20   | 299405   | 1    | Pump Oil Assembly                       |
| 21   | 299406   | 1    | Gasket, Oil Pump                        |
| 22   | 300143   | 4    | Bolt, Oil Pump                          |
| 23   | 301487   | 1    | Cock, Drain Block                       |
| 24   | 299407   | 1    | Gear, Oil Pump Drive                    |
| 25   | 299408   | 1    | Key, Feather                            |
| 26   | 299409   | 1    | Nut                                     |
| 27   | 299413   | 1    | Washer, Craw                            |
| 28   | 298663   | 1    | Switch, Oil                             |
| 29   | 299254   | 1    | Front Mount - Port Side                 |
|      | 299256   | 1    | Front Mount - Starboard Side            |
| 30   | 300284   | 1    | Front Mount - Port Side 16" Center      |
|      | 300286   | 1    | Front Mount - Starboard Side 16" Center |
| 31   | 301057   | 1    | 3-4 Point Combination Mount             |
| 32   | 298456   | 8    | Washer Plain                            |
| 33   | 298463   | 8    | Washer Split Lock                       |
| 34   | 298506   | 8    | Screw Hex Head Cap                      |
| 35   | 300514   | 4    | Mount - Flexible                        |

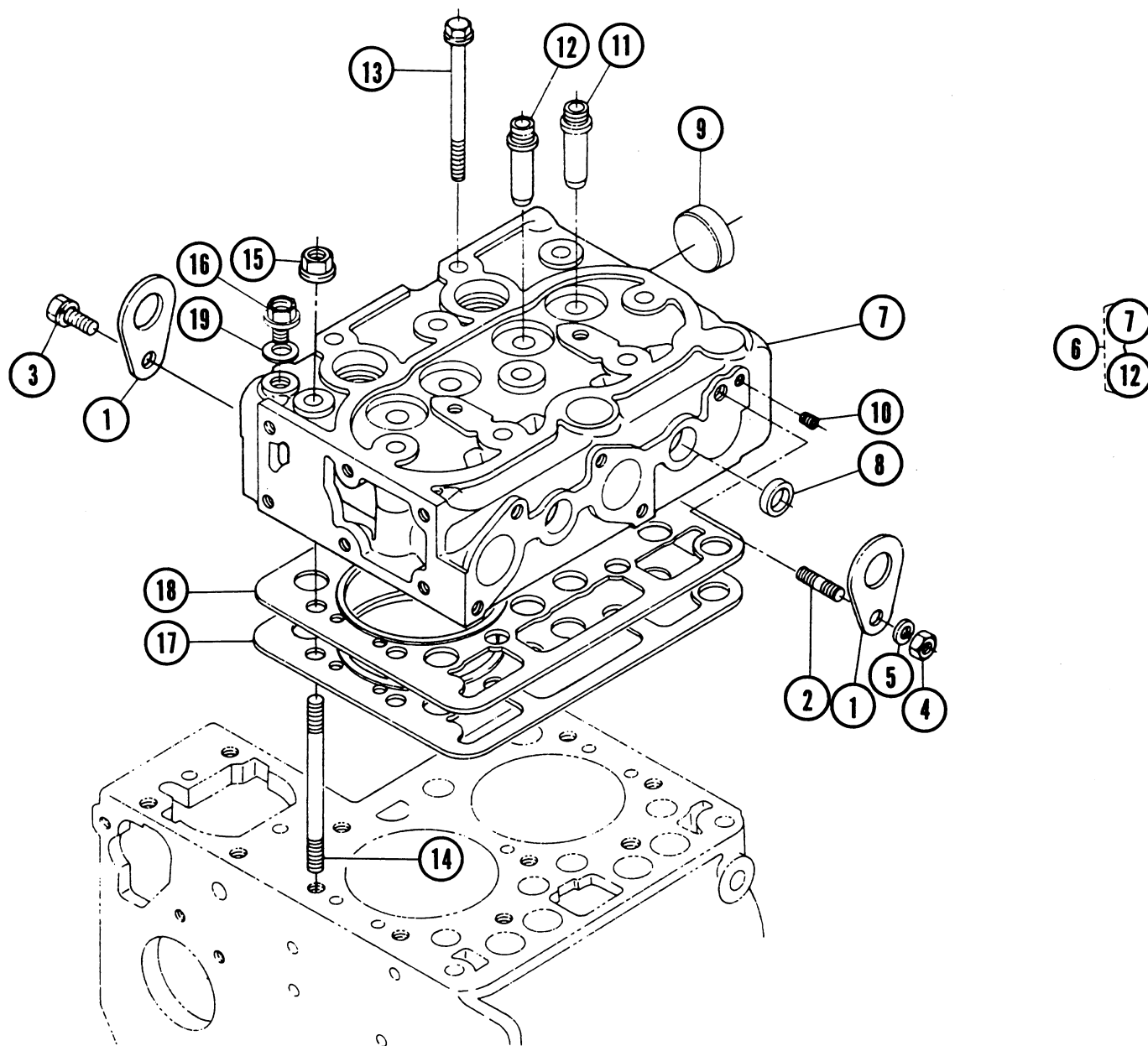
## OIL PAN GROUP



## OIL PAN GROUP

| Item | Part No. | Unit | Description            |
|------|----------|------|------------------------|
| 1    | 301151   | 1    | Oil Pan                |
| 2    | 299367   | 1    | Gasket, Oil Pan        |
| 3    | 299368   | 14   | Bolt                   |
| 4    | 299369   | 14   | Washer, Spring         |
| 5    | 299372   | 1    | Screen, Oil            |
| 6    | 300008   | 1    | Bolt, Oil Screen       |
| 7    | 299373   | 1    | O-Ring                 |
| 8    | 299377   | 1    | Dip Stick              |
| 9    | 299225   | 1    | Oil Gauge Tube         |
| 10   | 299226   | 1    | Gasket, Oil Gauge Tube |
| 11   | 299379   | 2    | Bolt                   |
| 12   | 300724   | 1    | Drain Kit              |

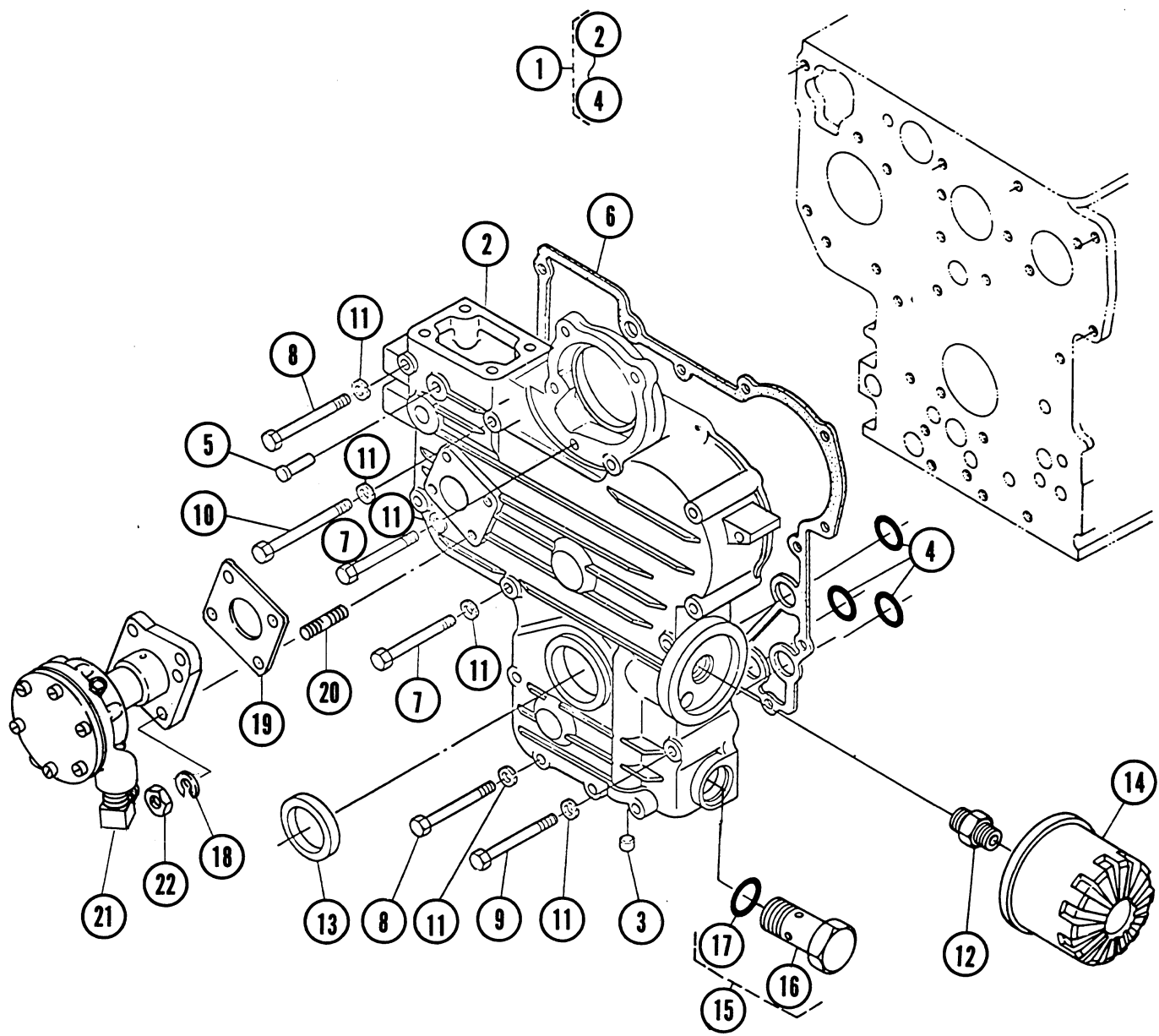
# CYLINDER HEAD GROUP



## CYLINDER HEAD GROUP

| Item | Part No. | Unit | Description                |
|------|----------|------|----------------------------|
| 1    | 298666   | 2    | Hook, Engine               |
| 2    | 300135   | 1    | Stud                       |
| 3    | 300008   | 1    | Bolt                       |
| 4    | 299529   | 1    | Nut                        |
| 5    | 299515   | 1    | Washer Spring              |
| 6    | 301152   | 1    | Cylinder Head Assembly     |
| 7    |          |      | Order by Item No. 6        |
| 8    | 299383   | 3    | Freeze Plug                |
| 9    | 299384   | 1    | Freeze Plug                |
| 10   | 299385   | 2    | Plug                       |
| 11   | 299386   | 2    | Guide, Inlet Valve         |
| 12   | 299394   | 2    | Guide, Exhaust Valve       |
| 13   | 300137   | 8    | Bolt, Cylinder Head        |
| 14   | 300138   | 2    | Stud, Cylinder Head        |
| 15   | 300139   | 2    | Nut, Cylinder Head         |
| 16   | 299974   | 1    | Bolt                       |
| 17   | 301118   | 1    | Gasket, Cylinder Head      |
| 18   | 301119   |      | Shim, Cylinder Head Gasket |
| 19   | 299975   | 1    | Washer                     |

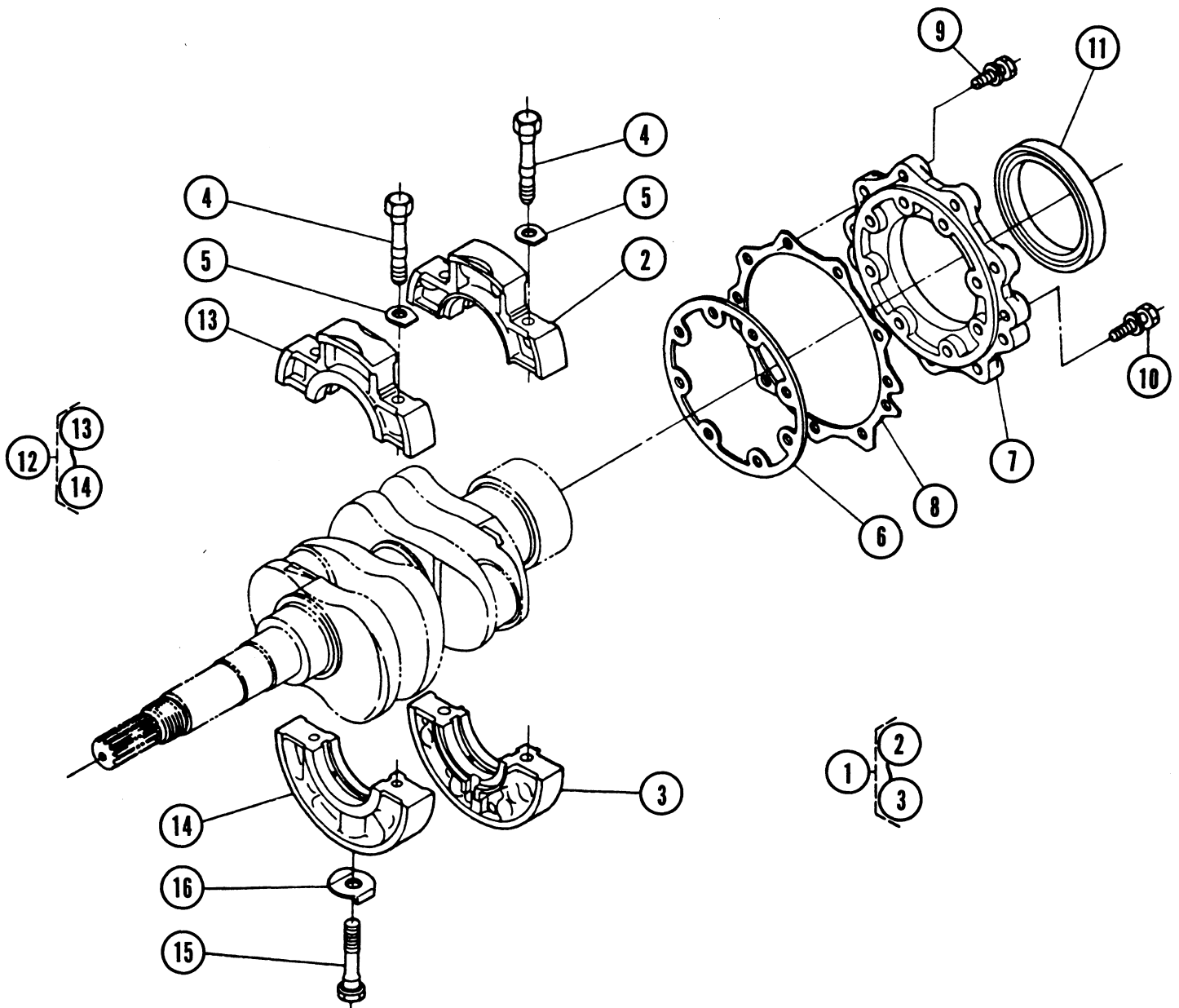
GEAR CASE GROUP



## GEAR CASE GROUP

| Item | Part No. | Unit | Description             |
|------|----------|------|-------------------------|
| 1    | 300140   | 1    | Comp. Case - Gear       |
| 2    |          |      | Order by Item No. 1     |
| 3    | 299395   | 2    | Plug - Pin              |
| 4    | 300160   | 3    | O-Ring - Gear Case      |
| 5    | 301489   | 1    | Pin - Start Spring      |
| 6    | 300180   | 1    | Gasket - Gear Case      |
| 7    | 299399   | 7    | Bolt                    |
| 8    | 299400   | 5    | Bolt                    |
| 9    | 299401   | 1    | Bolt                    |
| 10   | 299402   | 1    | Bolt                    |
| 11   | 299403   | 14   | Washer - Spring         |
| 12   | 301490   | 1    | Adapter - Filter        |
| 13   | 299404   | 1    | Seal - Oil              |
| 14   | 300209   | 1    | Filter - Oil            |
| 15   | 299374   | 1    | Assembly Valve - Relief |
| 16   |          |      | Order by Item No. 15    |
| 17   | 299376   | 1    | O-Ring                  |
| 18   | 299403   | 4    | Washer - Spring         |
| 19   | 298485   | 1    | Gasket - Water Pump     |
| 20   | 298683   | 4    | Stud                    |
| 21   | 300986   | 1    | Sherwood Water Pump     |
| 22   | 298684   | 4    | Nut                     |

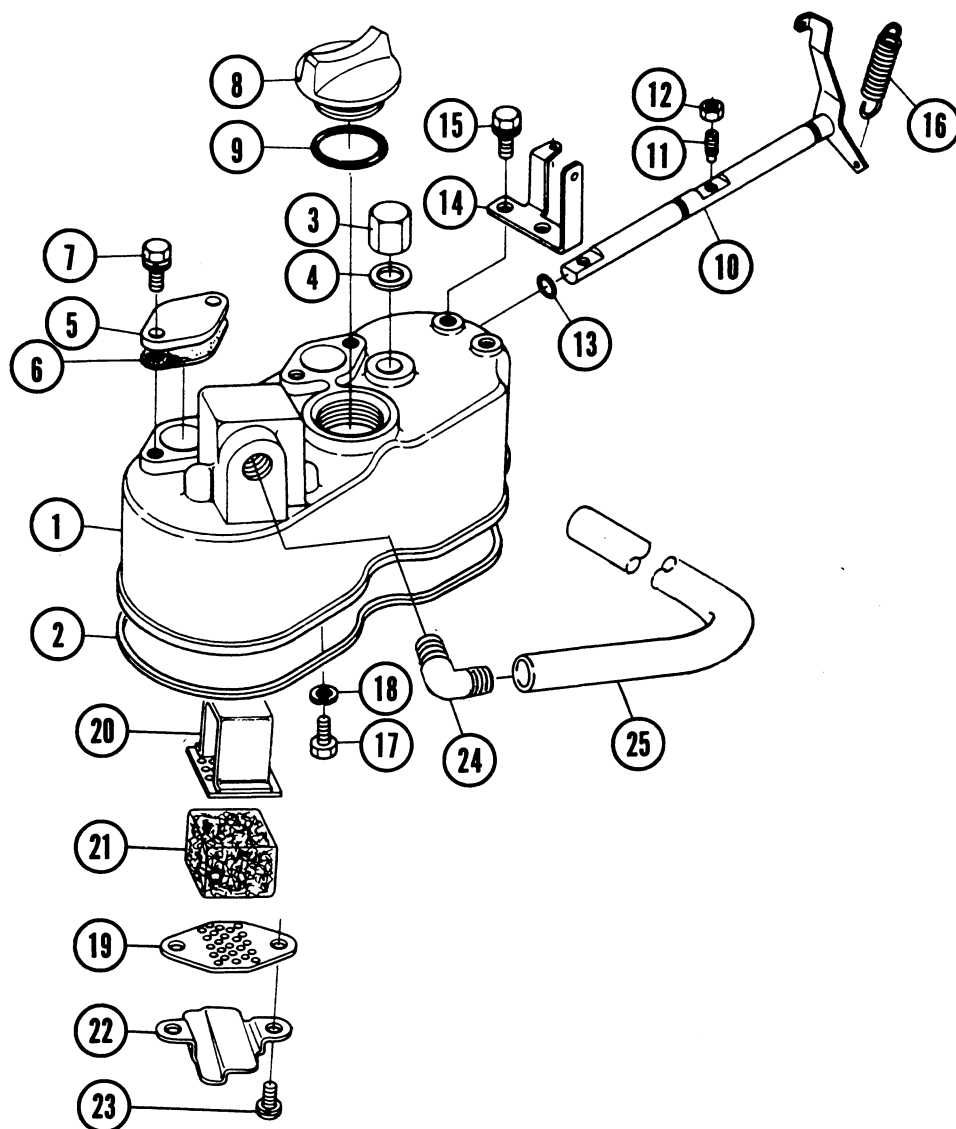
# MAIN BEARING CASE GROUP



## MAIN BEARING CASE GROUP

| Item | Part No. | Unit | Description                    |
|------|----------|------|--------------------------------|
| 1    | 301153   | 1    | Assembly Case Main Bearing     |
| 2    |          |      | Order by Item No. 1            |
| 3    |          |      | Order by Item No. 1            |
| 4    | 299415   | 4    | Bolt, Bearing Case 1           |
| 5    | 299416   | 4    | Washer, Bearing Case 1         |
| 6    | 299417   | 1    | Gasket, Bearing Case           |
| 7    | 301086   | 1    | Cover, Bearing Case            |
| 8    | 299418   | 1    | Gasket Bearing Case Cover      |
| 9    | 299432   | 9    | Bolt, Bearing Case Cover Top   |
| 10   | 299432   | 9    | Bolt, Bearing Case Cover, Side |
| 11   | 301085   | 1    | Seal, Oil                      |
| 12   | 299420   | 1    | Assembly Case, Main Bearing 2  |
| 13   |          |      | Order by Item No. 12           |
| 14   |          |      | Order by Item No. 12           |
| 15   | 300145   | 1    | Bolt, Bearing Case 2           |
| 16   | 299421   | 1    | Washer, Bearing Case 2         |

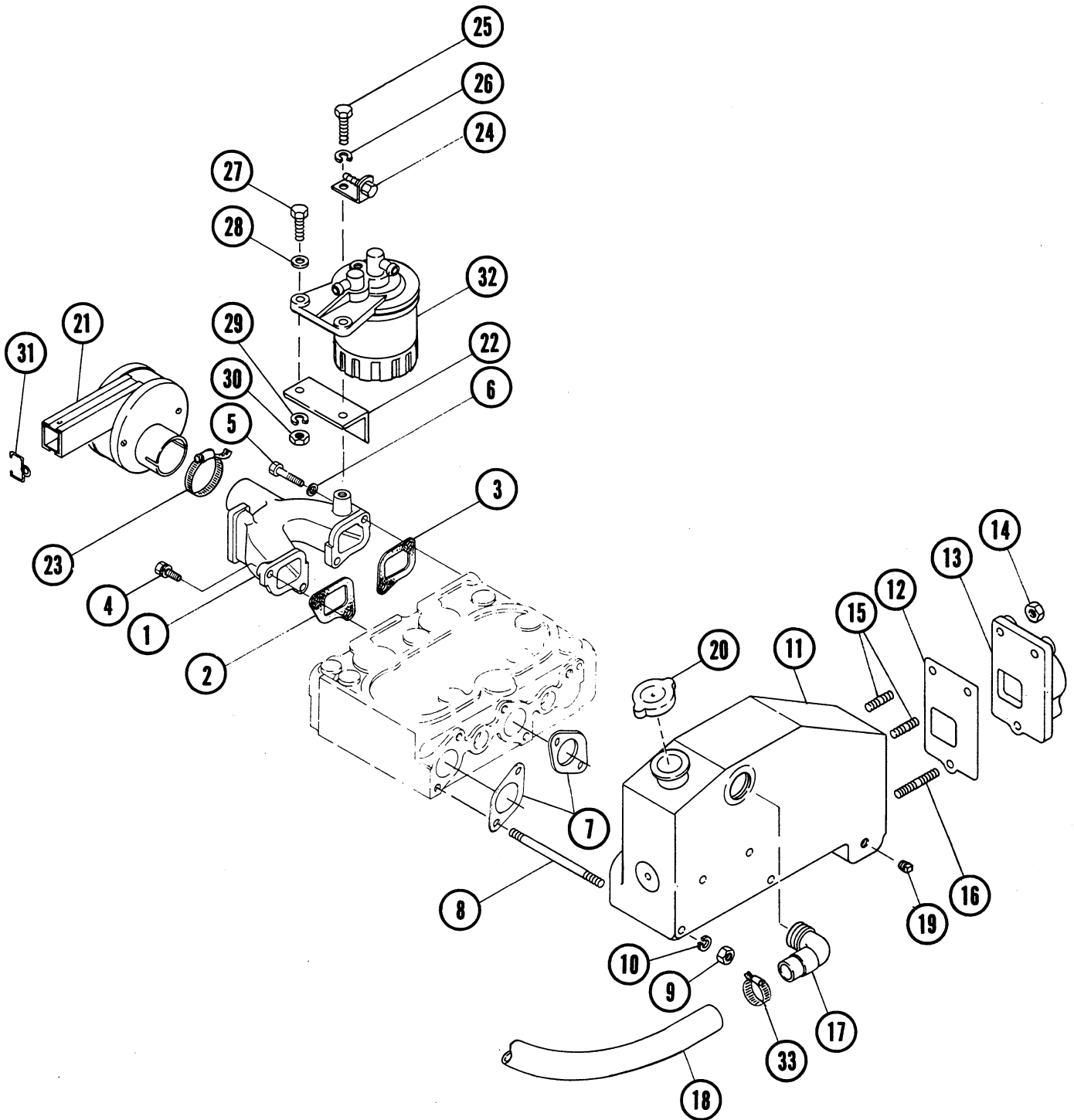
## HEAD COVER GROUP



## HEAD COVER GROUP

| Item | Part No. | Unit | Description                  |
|------|----------|------|------------------------------|
| 1    | 299455   | 1    | Cover, Valve                 |
| 2    | 299456   | 1    | Packing, Valve Cover         |
| 3    | 299457   | 2    | Nut, Cap                     |
| 4    | 299458   | 2    | Gasket                       |
| 5    | 299460   | 2    | Cover, Decomp. Hole          |
| 6    | 299461   | 2    | Gasket                       |
| 7    | 299462   | 4    | Bolt                         |
| 8    | 299464   | 1    | Cap, Oil Filler              |
| 9    | 299465   | 1    | O-Ring                       |
| 10   | 299466   | 1    | Comp. Shaft, Decompress      |
| 11   | 299467   | 2    | Bolt, Decompress             |
| 12   | 299468   | 2    | Nut                          |
| 13   | 299469   | 1    | O-Ring                       |
| 14   | 299470   | 1    | Holder Decompress Wire       |
| 15   | 299462   | 2    | Bolt, Decompress Holder      |
| 16   | 299471   | 1    | Spring, Decompress           |
| 17   | 298732   | 1    | Bolt, Decompress Shaft       |
| 18   | 299033   | 1    | Washer, Spring Decomp. Shaft |
| 19   | 301391   | 1    | Plate, Breather Element 1    |
| 20   | 301392   | 1    | Plate, Breather Element 2    |
| 21   | 300148   | 1    | Element, Breather            |
| 22   | 301393   | 1    | Oil Shield, Breather         |
| 23   | 301399   | 2    | Screw                        |
| 24   | 299854   | 1    | Joint, Breather Pipe         |
| 25   | 301396   | 1    | Hose, Breather               |

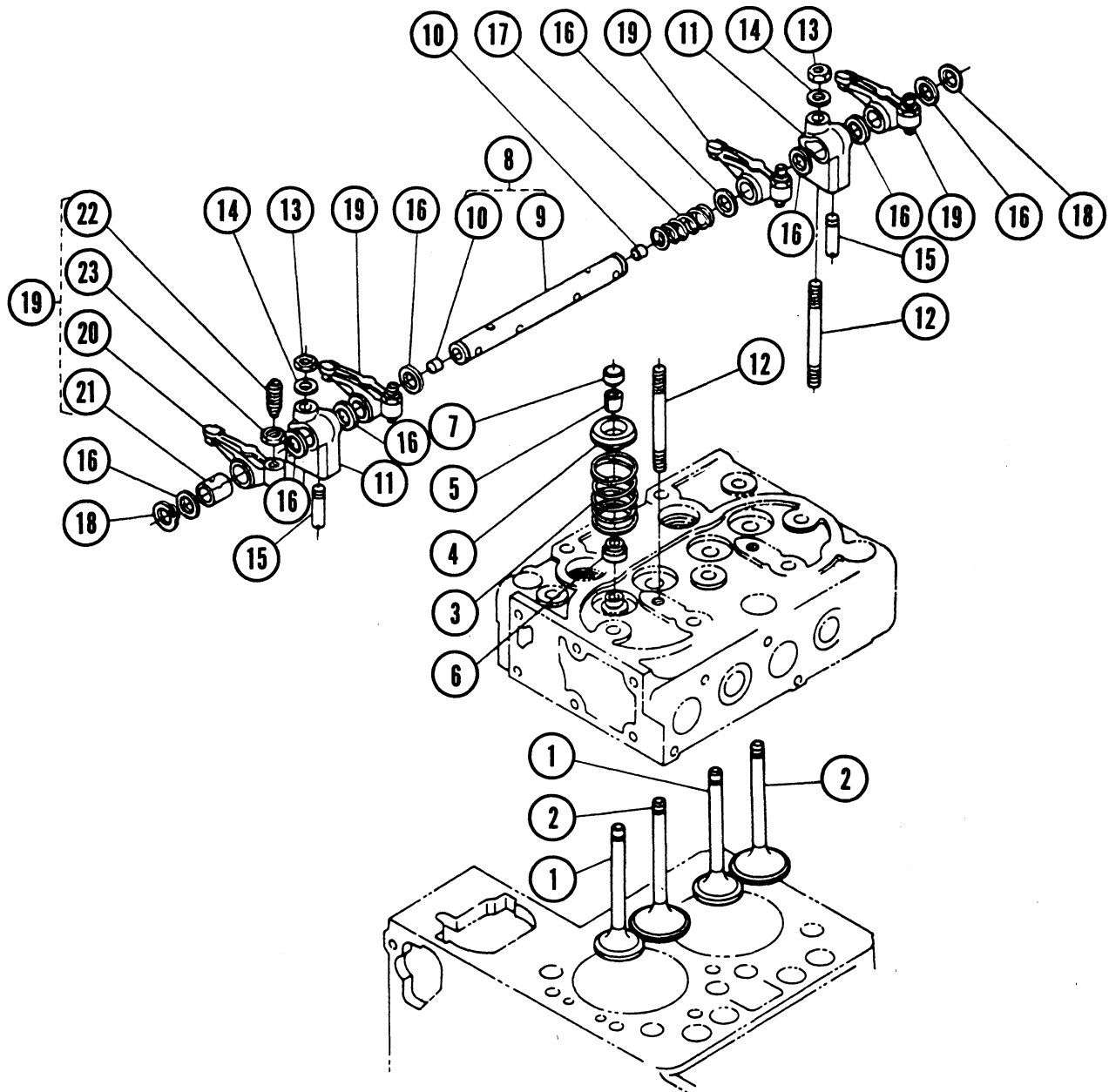
# INLET MANIFOLD GROUP



# INLET MANIFOLD GROUP

| Item | Part No.    | Unit | Description              |
|------|-------------|------|--------------------------|
| 1    | 299429      | 1    | Intake                   |
| 2    | 299430      | 1    | Gasket                   |
| 3    | 299431      | 1    | Gasket                   |
| 4    | 299432      | 3    | Bolt                     |
| 5    | 299433      | 1    | Bolt                     |
| 6    | 299434      | 1    | Washer, Spring           |
| 7    | 299435      | 2    | Gasket, Exhaust Manifold |
| 8    | 300095      | 4    | Stud                     |
| 9    | 298684      | 4    | Nut                      |
| 10   | 299434      | 4    | Washer, Spring           |
| 11   | 301013      | 1    | Exhaust Manifold         |
| 12   | 298600      | 1    | Gasket                   |
| 13   | 298599      | 1    | Flange                   |
| 14   | 230147      | 3    | Nut                      |
| 15   | 276440      | 2    | Stud                     |
| 16   | 298974      | 1    | Stud                     |
| 17   | 298644      | 1    | Fitting                  |
| 18   | 300101      | 1    | Hose                     |
| 19   | 239136      | 1    | Plug                     |
| 20   | 299956      | 1    | Cap                      |
| 21   | 299750      | 1    | Air Cleaner              |
| 22   | 300942      | 1    | Bracket                  |
| 23   | 298604      | 1    | Hose Clamp               |
| 24   | 300941      | 1    | Fuel Return Bracket      |
| 25   | 298468      | 1    | Bolt                     |
| 26   | 298461      | 1    | Washer, Spring           |
| 27   | 231059      | 1    | Bolt                     |
| 28   | 231875      | 1    | Washer                   |
| 29   | 015395      | 1    | Washer, Spring           |
| 30   | 230141      | 1    | Nut                      |
| 31   | 298630      | 1    | Clip                     |
| 32   | See page 38 | 1    | Fuel Filter              |
| 33   | 298648      | 1    | Hose Clamp               |

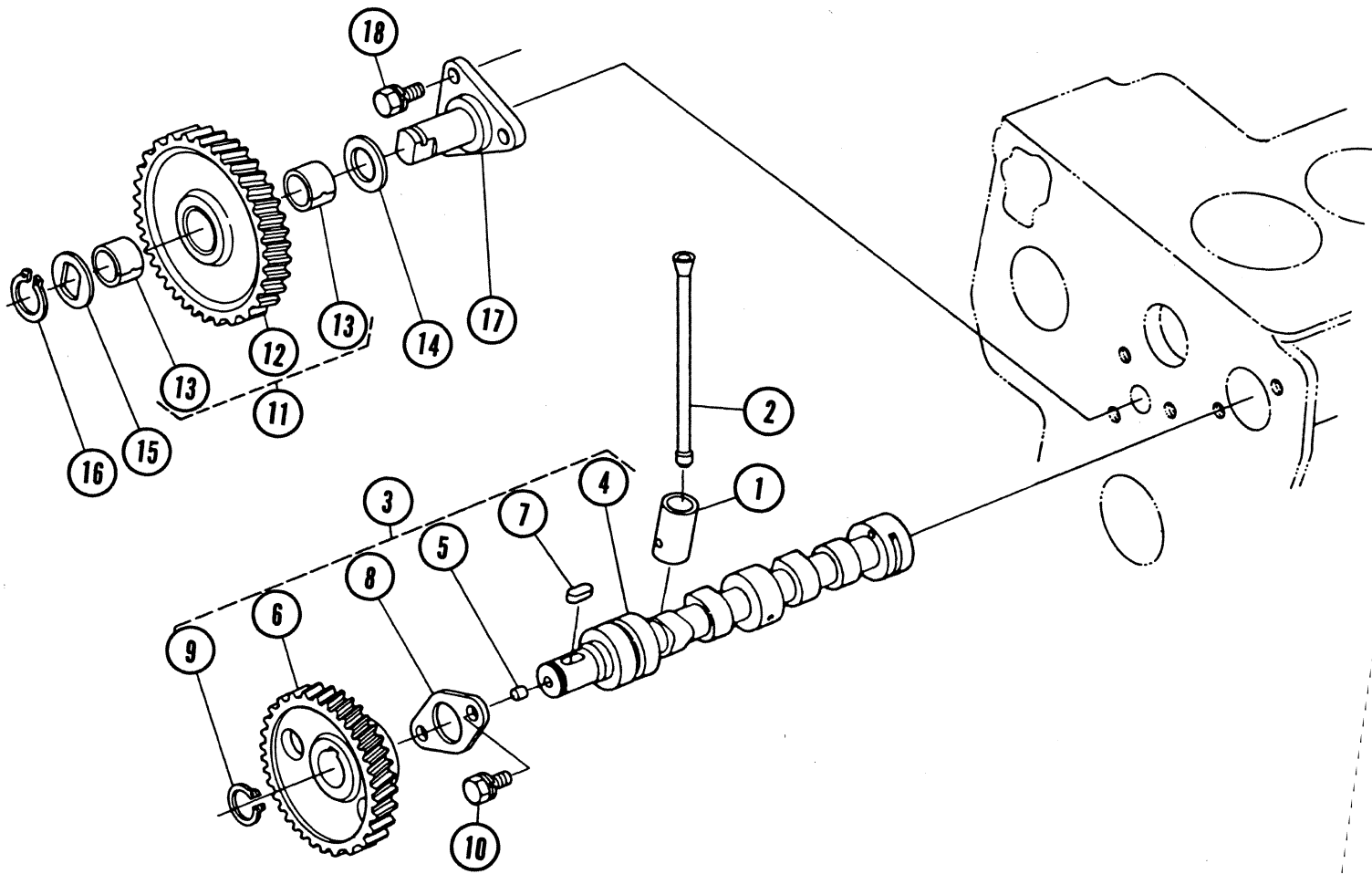
# VALVE ROCKER ARM GROUP



## VALVE ROCKER ARM GROUP

| Item | Part No. | Unit | Description                |
|------|----------|------|----------------------------|
| 1    | 300152   | 2    | Valve, Inlet               |
| 2    | 300153   | 2    | Valve, Exhaust             |
| 3    | 299438   | 4    | Spring, Valve              |
| 4    | 299439   | 4    | Retainer, Valve Spring     |
| 5    | 299440   | 8    | Collet, Valve Spring       |
| 6    | 299441   | 4    | Seal, Valve Stem           |
| 7    | 299442   | 4    | Cap, Valve                 |
| 8    | 300154   | 1    | Assembly Shaft, Rocker Arm |
| 9    |          |      | Order by Item No. 8        |
| 10   | 300155   | 2    | Screw, Set                 |
| 11   | 299944   | 2    | Bracket, Rocker Arm        |
| 12   | 299945   | 2    | Stud                       |
| 13   | 299446   | 2    | Nut, Rocker Arm Bracket    |
| 14   | 300156   | 2    | Washer, Plain              |
| 15   | 299447   | 1    | Screw, Set                 |
| 16   | 299448   | 4    | Washer                     |
| 17   | 299449   | 1    | Spring, Rocker Arm         |
| 18   | 299450   | 2    | Cir-Clip, External         |
| 19   | 300227   | 4    | Assembly Rocker Arm        |
| 21   | 300228   | 4    | Bush, Rocker Arm           |
| 22   | 299453   | 4    | Screw, Adjusting           |
| 23   | 299454   | 4    | Nut                        |

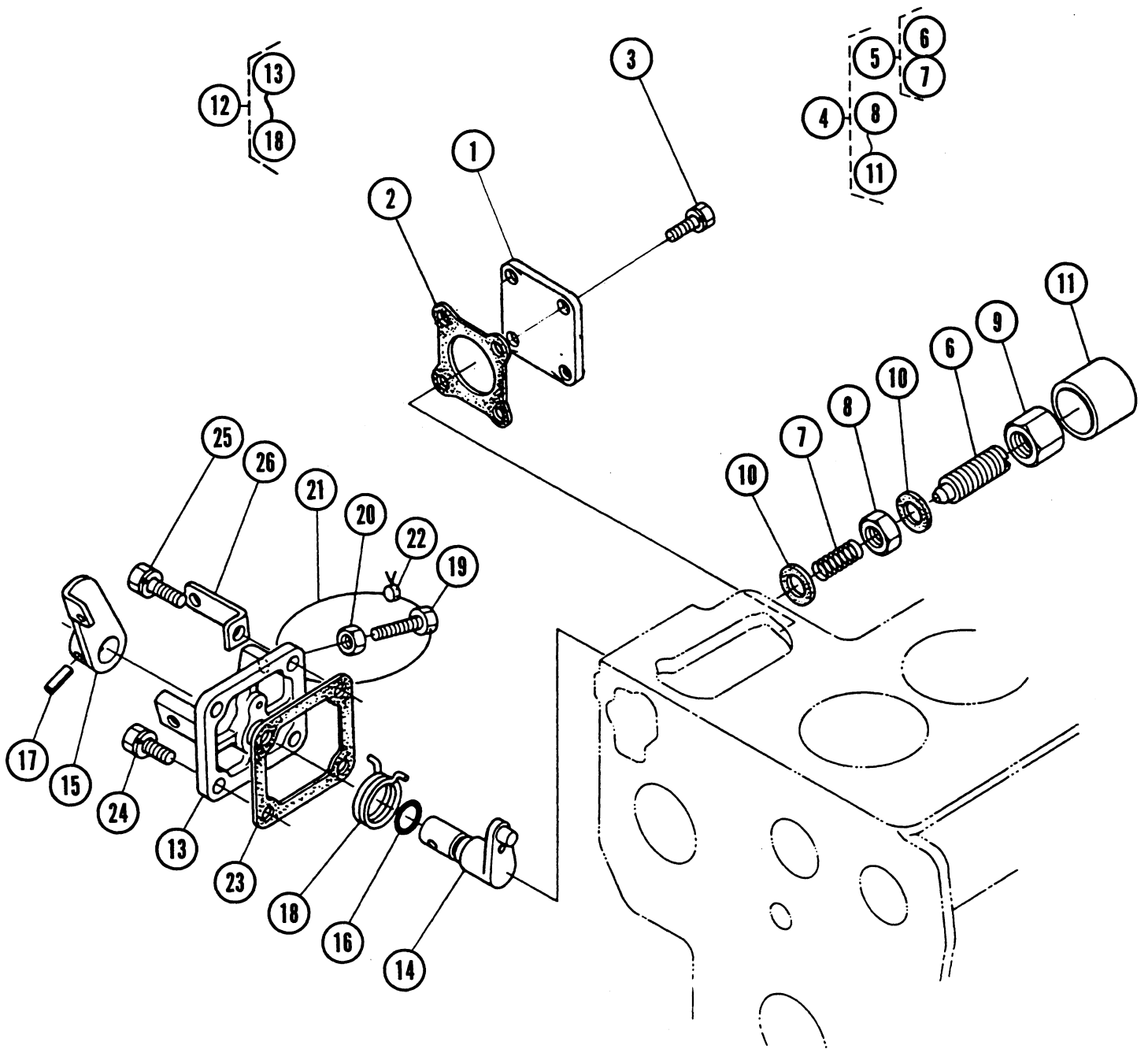
# CAMSHAFT GROUP



## CAMSHAFT GROUP

| Item | Part No. | Unit | Description          |
|------|----------|------|----------------------|
| 1    | 299472   | 4    | Tappet               |
| 2    | 299473   | 4    | Rod, Push            |
| 3    | 299474   | 1    | Assembly Camshaft    |
| 4    |          |      | Order by Item No. 3  |
| 5    | 300162   | 2    | Plug Blind           |
| 6    | 299475   | 1    | Gear, Camshaft       |
| 7    | 299476   | 1    | Key, Feather         |
| 8    | 299477   | 1    | Stopper, Camshaft    |
| 9    | 299535   | 1    | Cir-Clip, External   |
| 10   | 299462   | 2    | Bolt                 |
| 11   | 299478   | 1    | Comp. Gear, Idle     |
| 12   |          |      | Order by Item No. 11 |
| 13   | 299479   | 2    | Bush, Idle Gear      |
| 14   | 299480   | 1    | Collar, Idle Gear 1  |
| 15   | 299481   | 1    | Collar, Idle Gear 2  |
| 16   | 299482   | 1    | Cir-Clip, External   |
| 17   | 299483   | 1    | Shaft, Idle Gear     |
| 18   | 299462   | 3    | Bolt                 |

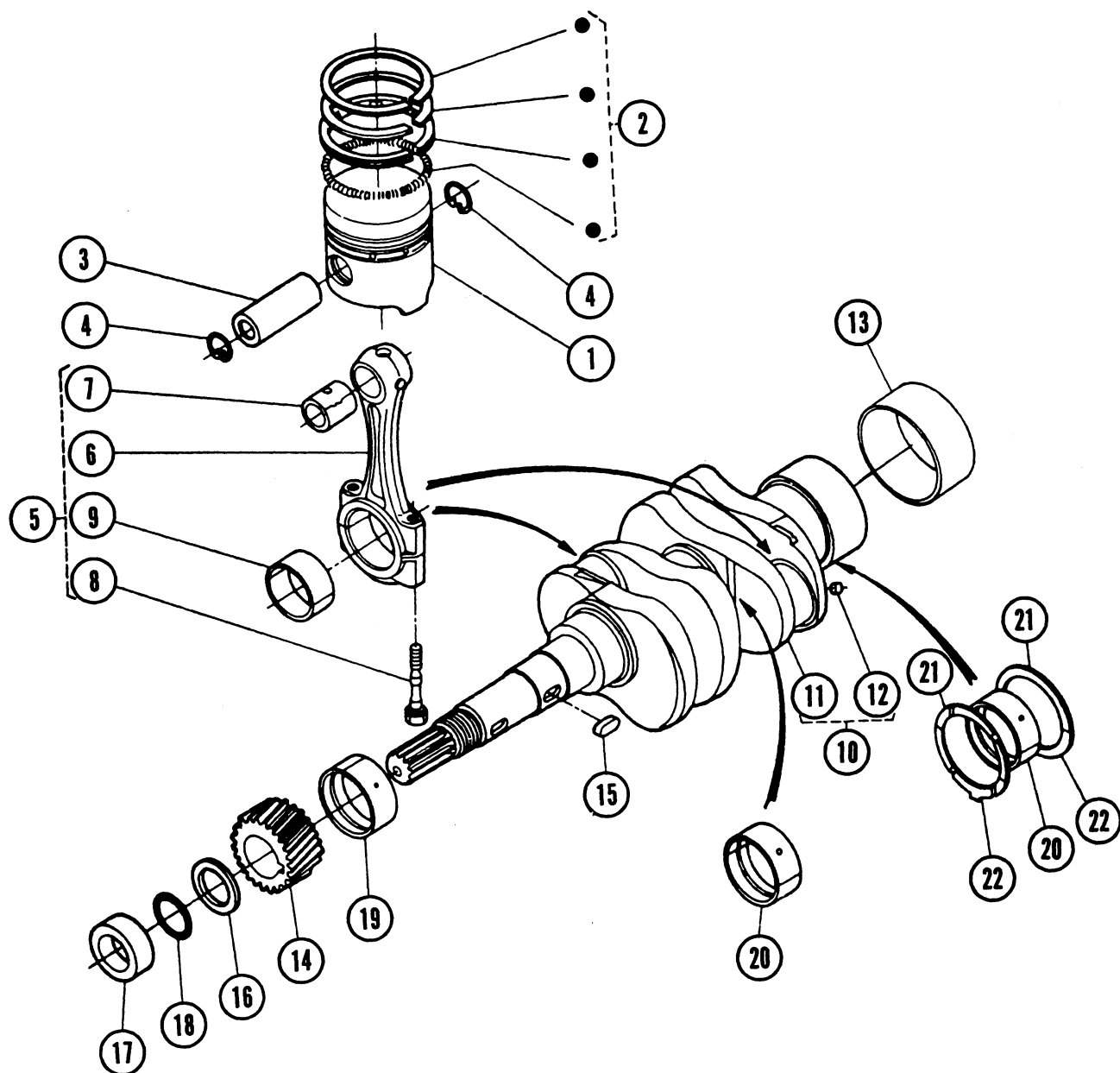
## ENGINE STOP LEVER GROUP



## ENGINE STOP LEVER GROUP

| Item | Part No. | Unit | Description                              |
|------|----------|------|------------------------------------------|
| 1    | 299486   | 1    | Cover, Injection Pump, (Rear)            |
| 2    | 299484   | 1    | Gasket, O.P. Pump                        |
| 3    | 299527   | 4    | Bolt                                     |
| 4    | 300164   | 1    | Assembly Apparatus, Idling               |
| 5    | 301492   | 1    | Assembly Bolt, Adjusting, Injection Pump |
| 6    |          |      | Order by Item No. 5                      |
| 7    |          |      | Order by Item No. 5                      |
| 8    | 301493   | 1    | Nut, Order No. 5                         |
| 9    | 301494   | 1    | Nut, Cap, Order No. 5                    |
| 10   | 301495   | 2    | Packing, Order No. 5                     |
| 11   | 301417   | 1    | Cap, Order No. 5                         |
| 12   | 300229   | 1    | Assembly Lever, Engine Stop              |
| 13   | 300173   | 1    | Cover, Injection Pump                    |
| 14   |          |      | Order by Item No. 12                     |
| 15   |          |      | Order by Item No. 12                     |
| 16   | 301496   | 1    | O-Ring, Stop Lever                       |
| 17   | 301498   | 1    | Pin, Spring w/No. 12                     |
| 18   | 301499   | 1    | Spring, Stop Lever                       |
| 19   | 298826   | 1    | Stopper, Bolt                            |
| 20   | 299041   | 1    | Nut, Stopper                             |
| 21   |          |      | Non Sale                                 |
| 22   |          |      | Non Sale                                 |
| 23   | 300230   | 1    | Gasket, Breather                         |
| 24   | 299462   | 3    | Bolt                                     |
| 25   | 299432   | 1    | Bolt                                     |
| 26   | 301398   | 1    | Holder, Wire                             |

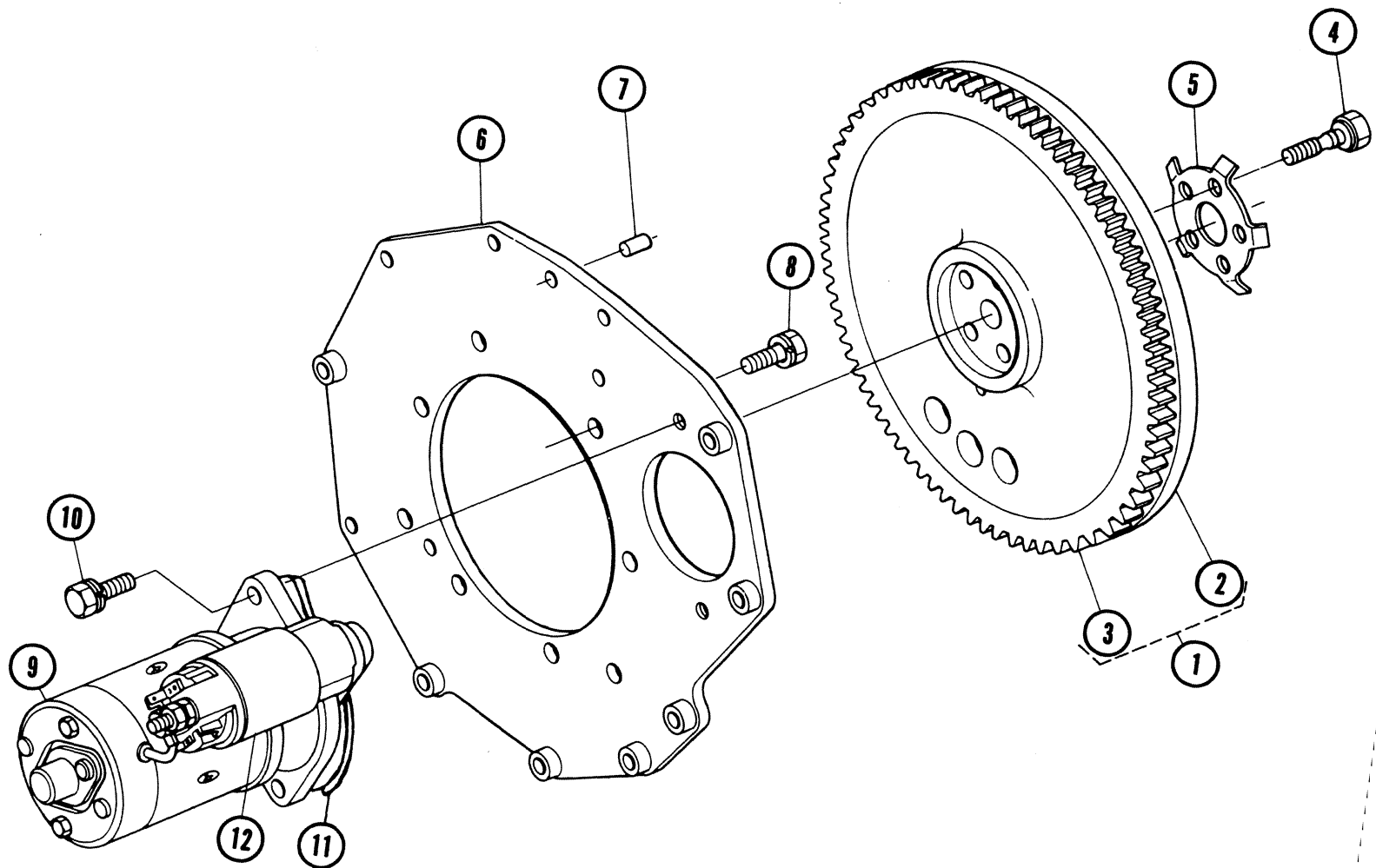
# PISTON, CRANKSHAFT GROUP



## PISTON, CRANKSHAFT GROUP

| Item | Part No. | Unit | Description                 |
|------|----------|------|-----------------------------|
| 1    | 300165   | 2    | Piston                      |
| 2    | 300166   | 2    | Assembly Piston Ring        |
| 3    | 299489   | 2    | Piston Pin                  |
| 4    | 299490   | 4    | Cir-Clip, Piston Pin        |
| 5    | 299491   | 2    | Assembly Rod, Connecting    |
| 6    |          |      | Order by Item No. 5         |
| 7    | 301154   | 2    | Bush, Piston Pin            |
| 8    | 299493   | 4    | Bolt, Connecting Rod        |
| 9    | 299494   | 4    | Metal, Crank Pin            |
| 10   | 301155   | 1    | Comp. Crankshaft            |
| 11   |          |      | Order by Item No. 11        |
| 12   | 299385   | 2    | Plug Pin                    |
| 13   |          |      | Order by Item No. 11        |
| 14   | 300168   | 1    | Gear Crank                  |
| 15   | 299496   | 1    | Key, Feather                |
| 16   | 299497   | 1    | Oil Slinger                 |
| 17   | 299498   | 1    | Collar, Crankshaft          |
| 18   | 299499   | 1    | O-Ring                      |
| 19   | 299500   | 1    | Bearing, Crankshaft 1       |
| 20   | 299501   | 4    | Bearing, Metal Crankshaft 2 |
| 21   | 299502   | 2    | Bearing, Side 1             |
| 22   | 299503   | 2    | Bearing, Side 2             |

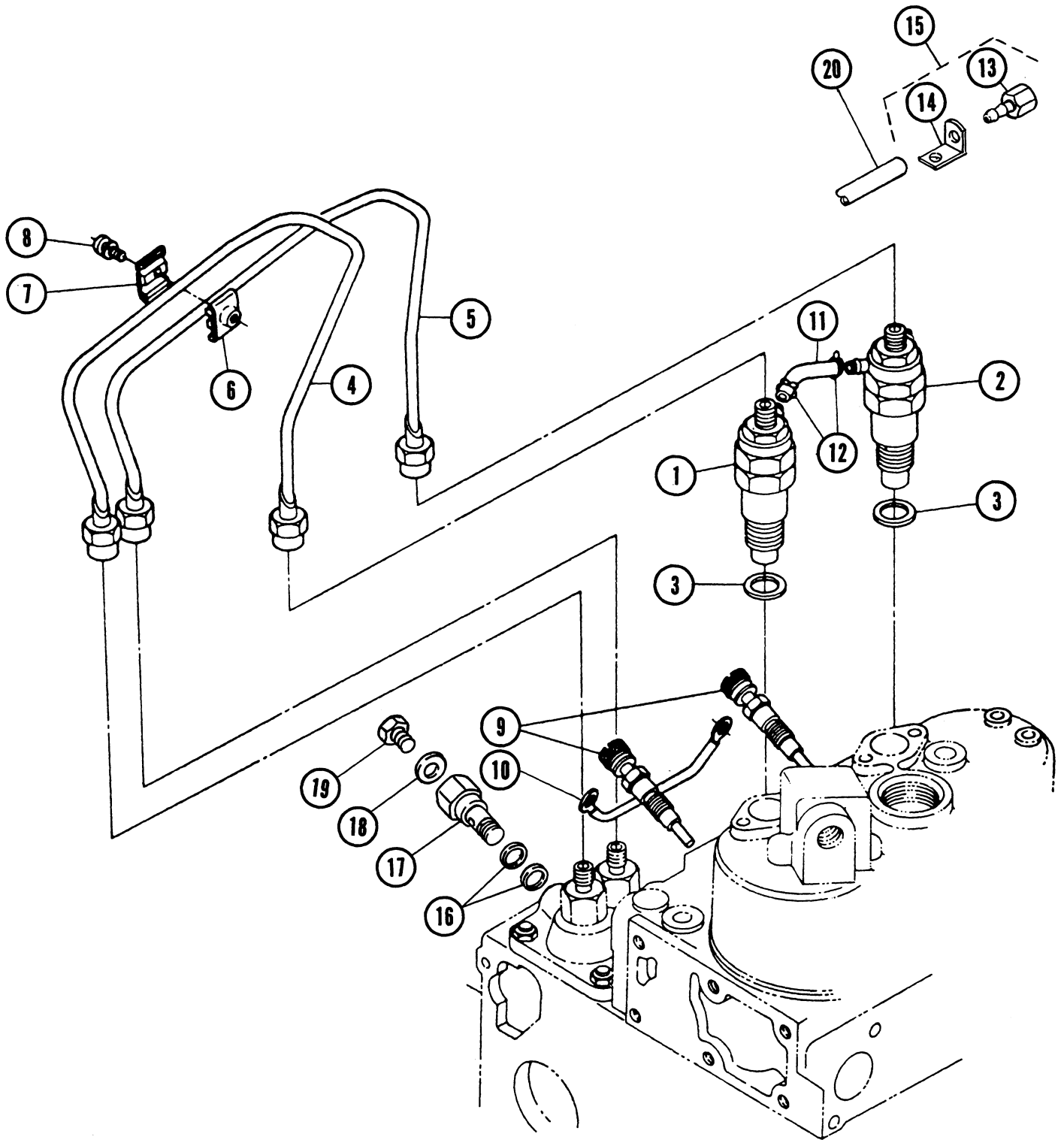
# FLYWHEEL GROUP



## FLYWHEEL GROUP

| Item | Part No. | Unit | Description         |
|------|----------|------|---------------------|
| 1    | 299504   | 1    | Comp. Flywheel      |
| 2    |          |      | Order by Item No. 1 |
| 3    | 299505   | 1    | Gear, Ring          |
| 4    | 299506   | 5    | Bolt, Flywheel      |
| 5    | 299507   | 1    | Washer, Flywheel    |
| 6    | 299508   | 1    | Rear End Plate      |
| 7    | 299509   | 1    | Pin, Straight       |
| 8    | 299510   | 8    | Bolt                |
| 9    | 299512   | 1    | Assembly Starter    |
| 10   | 298539   | 2    | Bolt, Starter       |
| 11   | 299513   | 1    | Gasket              |
| 12   | 300538   | 1    | Solenoid            |

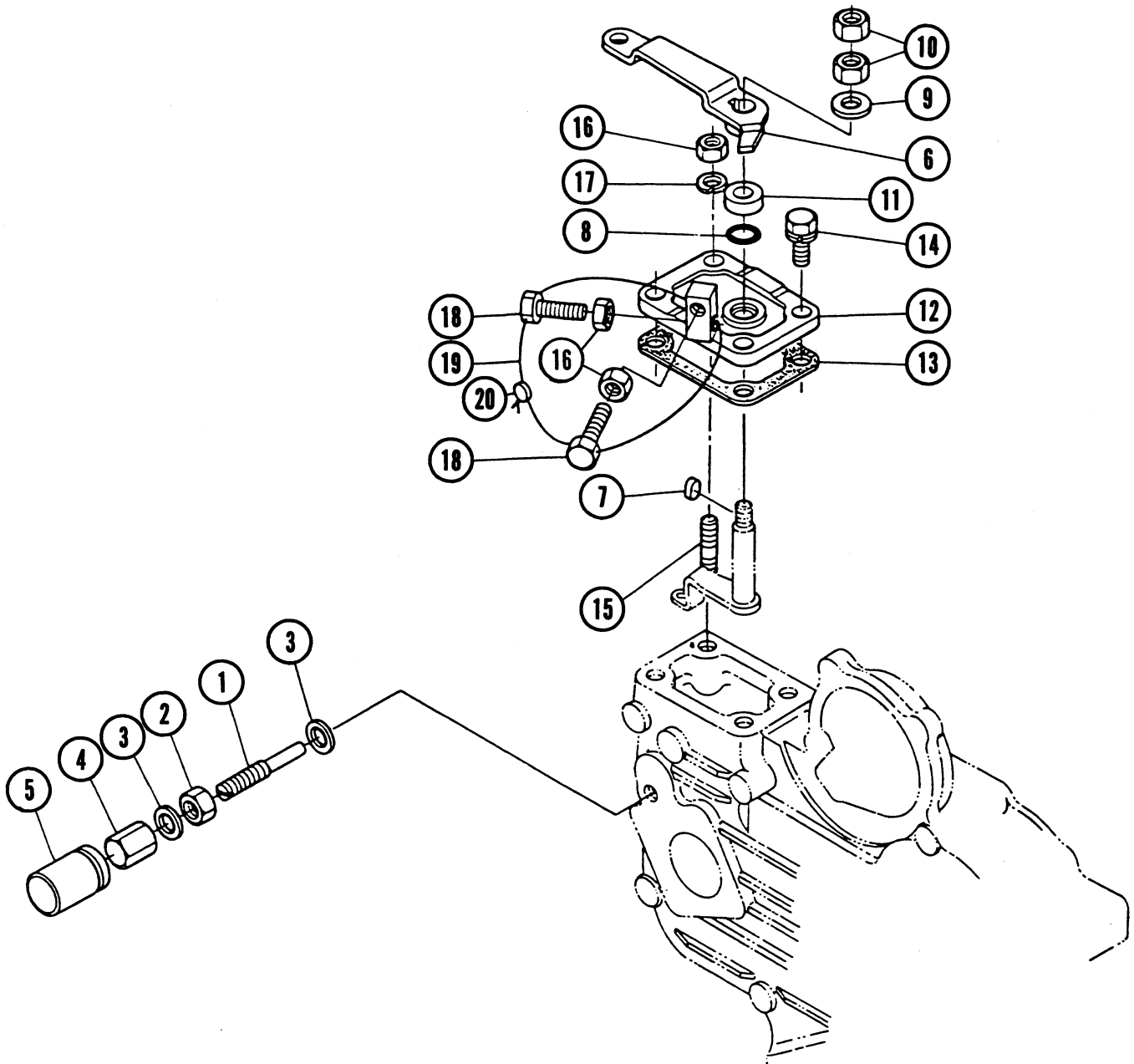
# NOZZLE HOLDER GROUP



## NOZZLE HOLDER GROUP

| Item | Part No. | Unit | Description                        |
|------|----------|------|------------------------------------|
| 1    | 299517   | 1    | Assembly, Nozzle 1                 |
| 2    | 299518   | 1    | Assembly, Nozzle 2                 |
| 3    | 299519   | 2    | Gasket                             |
| 4    | 299521   | 1    | Pipe, Injection 1                  |
| 5    | 299522   | 1    | Pipe, Injection 2                  |
| 6    | 298792   | 1    | Clamp Pipe 1                       |
| 7    | 298793   | 1    | Clamp Pipe 2                       |
| 8    | 298794   | 1    | Screw, with Washer, (Pipe Cleaner) |
| 9    | 301754   | 2    | Glow Plug                          |
| 10   | 299523   | 1    | Wire, Glow Plug                    |
| 11   | 299520   | 1    | Hose, Fuel Return                  |
| 12   | 299524   | 2    | Clamp, Hose                        |
| 13   | 299829   | 1    | Fuel Return Connector              |
| 14   | 299828   | 1    | Mounting Bracket                   |
| 15   | 256747   | 1    | Fuel Return Assembly               |
| 16   | 300201   | 2    | Gasket                             |
| 17   | 301163   | 1    | Bleed Screw                        |
| 18   | 301164   | 1    | Gasket                             |
| 19   | 299748   | 1    | Bleed Screw                        |
| 20   | 299831   | 1    | Fuel Return Hose                   |

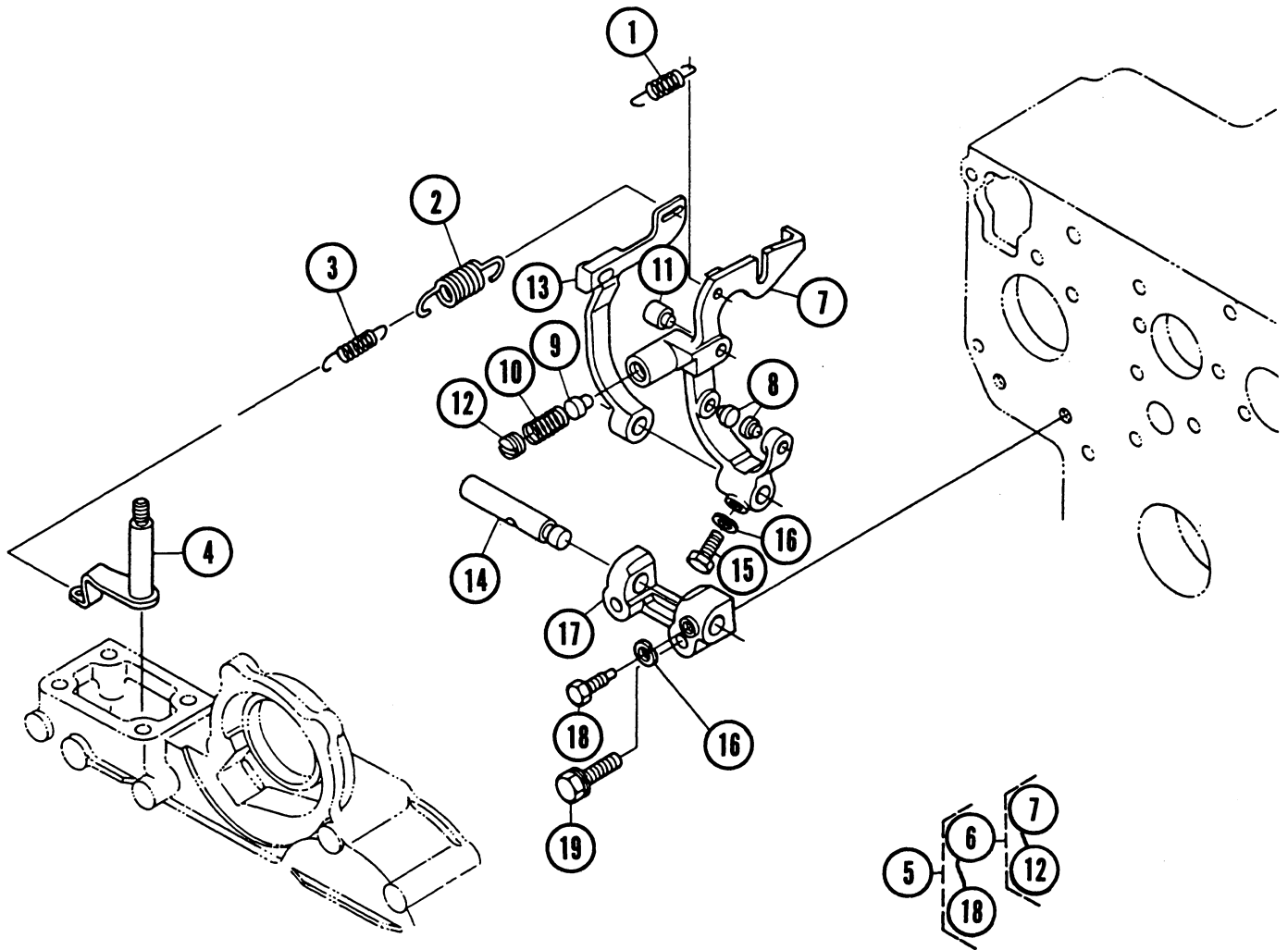
## SPEED CONTROL PLATE GROUP



## SPEED CONTROL PLATE GROUP

| Item | Part No. | Unit | Description                     |
|------|----------|------|---------------------------------|
| 1    | 301501   | 1    | Bolt, Adjusting (Speed Control) |
| 2    | 301502   | 1    | Nut, Speed Control              |
| 3    | 301503   | 2    | Packing, Speed Control          |
| 4    | 301504   | 1    | Nut, Cap, Speed Control         |
| 5    | 301505   | 1    | Cap, Speed Control              |
| 6    | 300178   | 1    | Lever, Speed Control            |
| 7    | 299540   | 1    | Key, Feather                    |
| 8    | 299541   | 1    | O-Ring                          |
| 9    | 299542   | 1    | Washer, Plain                   |
| 10   | 299543   | 2    | Nut                             |
| 11   | 299544   | 1    | Plate, Friction                 |
| 12   | 300179   | 1    | Cover, Speed Control            |
| 13   | 299545   | 1    | Gasket, Control Plate           |
| 14   | 299432   | 3    | Bolt                            |
| 15   | 298825   | 1    | Stud                            |
| 16   | 298684   | 3    | Nut                             |
| 17   | 299369   | 1    | Washer, Spring                  |
| 18   | 298826   | 2    | Stopper                         |
| 19   |          |      | Non Sale                        |
| 20   |          |      | Non Sale                        |

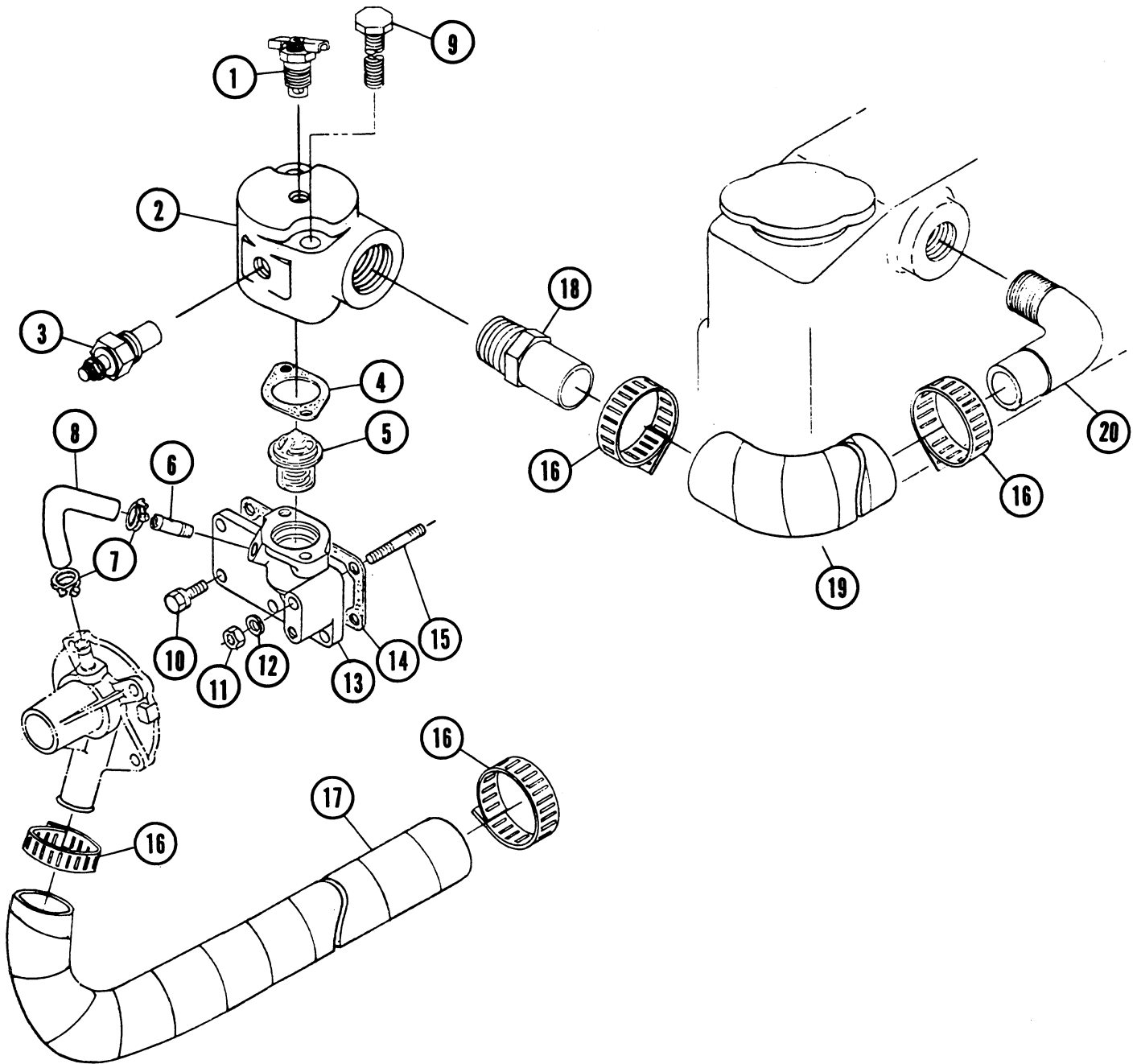
# GOVERNOR GROUP



## GOVERNOR GROUP

| Item | Part No. | Unit | Description           |
|------|----------|------|-----------------------|
| 1    | 298828   | 1    | Spring, Start         |
| 2    | 301156   | 1    | Spring, Governor 1    |
| 3    | 301157   | 1    | Spring, Governor 2    |
| 4    | 300181   | 1    | Comp. Lever, Governor |
| 5    | 300182   | 1    | Assembly Lever, Fork  |
| 6    | 300183   | 1    | Comp. Lever, Fork     |
| 7    |          |      | Order by Item No. 6   |
| 8    |          |      | Order by Item No. 6   |
| 9    |          |      | Order by Item No. 6   |
| 10   |          |      | Order by Item No. 6   |
| 11   |          |      | Order by Item No. 6   |
| 12   |          |      | Order by Item No. 6   |
| 13   | 300184   | 1    | Lever, Fork 2         |
| 14   | 300185   | 1    | Shaft, Fork Lever     |
| 15   | 300186   | 1    | Bolt                  |
| 16   | 300187   | 2    | Washer, Spring        |
| 17   | 300188   | 1    | Holder, Fork Lever    |
| 18   | 300189   | 1    | Bolt                  |
| 19   | 299432   | 2    | Bolt                  |

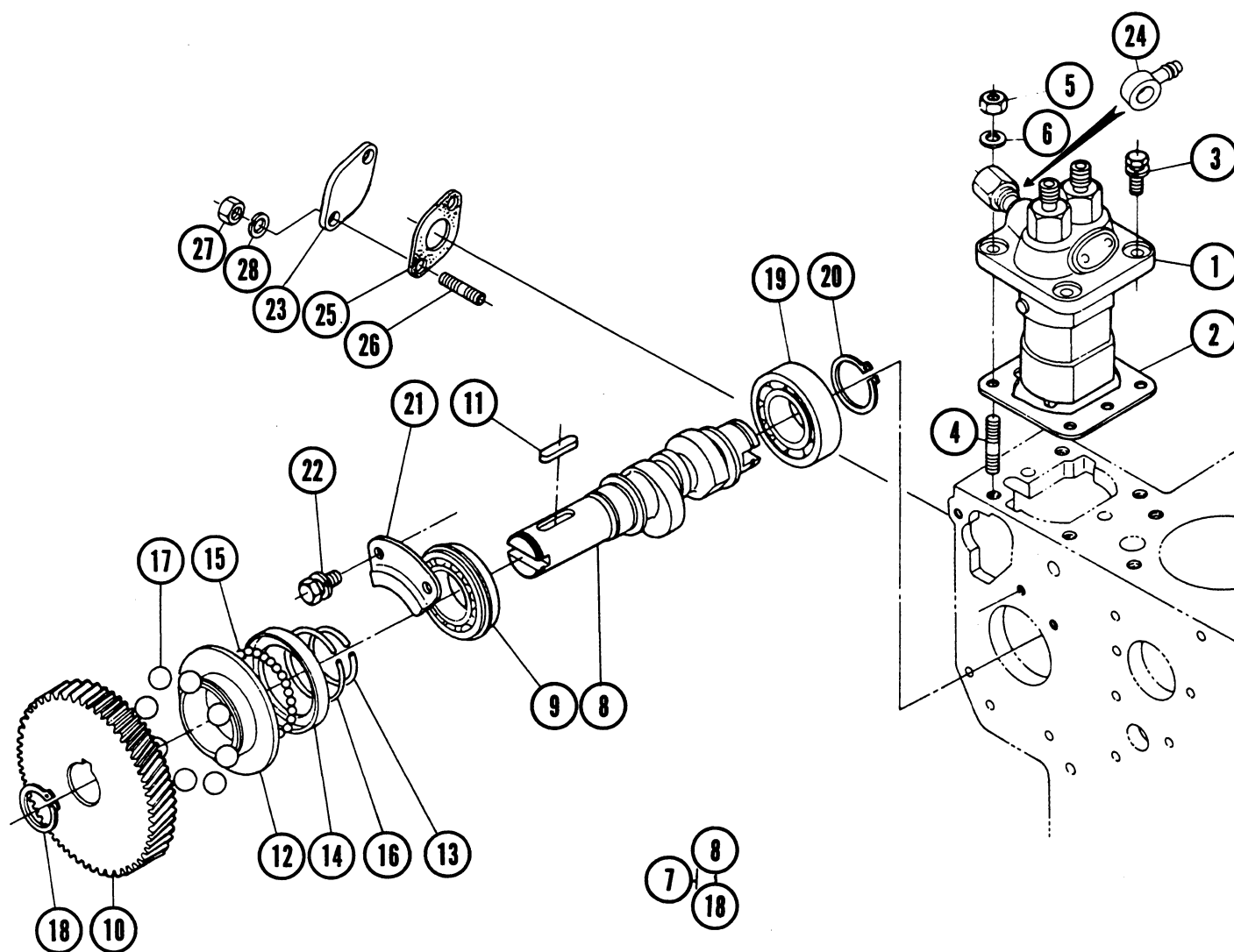
## WATER FLANGE GROUP



## WATER FLANGE GROUP

| Item | Part No. | Unit | Description                              |
|------|----------|------|------------------------------------------|
| 1    | 239138   | 1    | Drain Cock 1/8 MPT                       |
| 2    | 300099   | 1    | Thermostat Housing                       |
| 3    | 299066   | 1    | Temperature Sender                       |
| 4    | 300237   | 1    | Gasket Thermostat Housing                |
| 5    | 300281   | 1    | Thermostat 160°                          |
| 6    | 300235   | 1    | Pipe                                     |
| 7    | 301397   | 2    | Hose Clamp (USA)                         |
| 8    | 300236   | 1    | Hose                                     |
| 9    | 300330   | 2    | Thermostat Mounting Bolts (6mm x 50mm)   |
| 10   | 299462   | 3    | Bolt                                     |
| 11   | 298684   | 1    | Nut                                      |
| 12   | 299369   | 1    | Spring Washer                            |
| 13   | 300233   | 1    | Flange Water                             |
| 14   | 300234   | 1    | Gasket Water Flange                      |
| 15   | 301506   | 1    | Stud                                     |
| 16   | 298648   | 4    | Hose Clamp No. 12                        |
| 17   | 299080   | 1    | Wire Flex Hose 7/8 I.D. x 27-1/2 Lg.     |
| 18   | 286075   | 1    | Hose Connector 3/4 MPT to 7/8 I.D. Hose  |
| 19   | 300816   | 1    | Wire Flex Hose 7/8 I.D. x 7" Lg.         |
| 20   | 298644   | 1    | Hose Connector EL-90 3/4 MPT to 7/8 Hose |

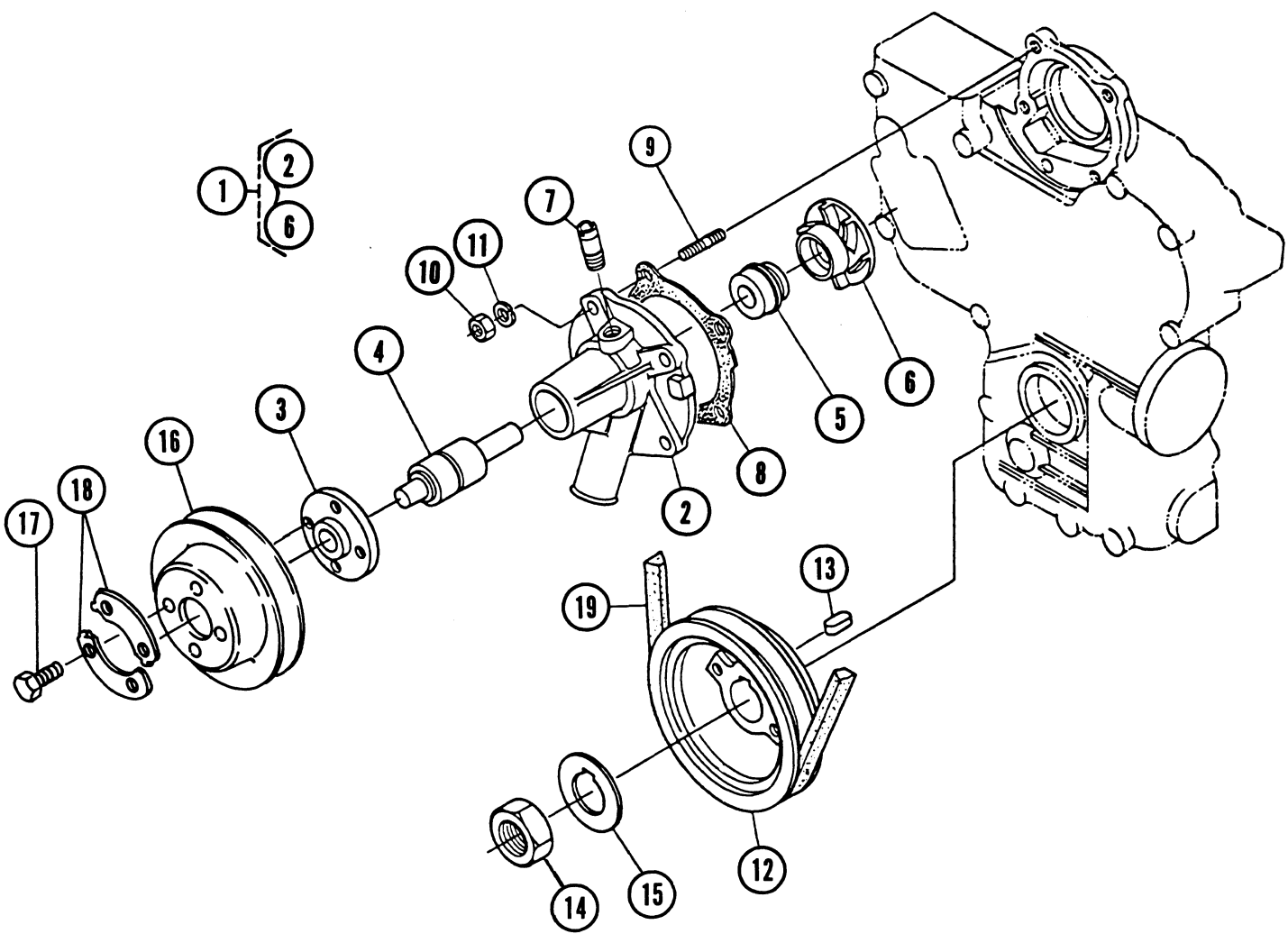
# FUEL CAMSHAFT GROUP



## FUEL CAMSHAFT GROUP

| Item | Part No. | Unit | Description                  |
|------|----------|------|------------------------------|
| 1    | 299525   | 1    | Assembly Pump, Injection     |
| 2    | 299526   |      | Shim, Injection Pump         |
| 3    | 299527   | 2    | Bolt                         |
| 4    | 300231   | 2    | Stud                         |
| 5    | 299529   | 2    | Nut                          |
| 6    | 299583   | 2    | Washer, Spring               |
| 7    | 299530   | 1    | Assembly Camshaft, Fuel      |
| 8    | 301527   | 1    | Camshaft, Fuel               |
| 9    | 300195   | 1    | Bearing, Ball                |
| 10   | 300196   | 1    | Gear, Injection Pump         |
| 11   | 299531   | 1    | Key, Feather                 |
| 12   | 300197   | 1    | Sleeve, Governor             |
| 13   | 300198   | 1    | Cir-Clip, Governor Sleeve    |
| 14   | 299532   | 1    | Case, Governor Ball          |
| 15   | 299533   | 30   | Ball                         |
| 16   | 300199   | 1    | Cir-Clip, Governor Ball Case |
| 17   | 299534   | 8    | Ball                         |
| 18   | 299535   | 1    | Cir-Clip, External           |
| 19   | 299536   | 1    | Bearing, Ball                |
| 20   | 299537   | 1    | Cir-Clip External            |
| 21   | 300200   | 1    | Stopper, Fuel Camshaft       |
| 22   | 299462   | 2    | Bolt                         |
| 23   | 299822   | 1    | Cover                        |
| 24   | 299428   | 1    | Joint                        |
| 25   | 299426   | 1    | Gasket, Cover                |
| 26   | 300147   | 2    | Stud                         |
| 27   | 299041   | 2    | Nut                          |
| 28   | 299369   | 2    | Washer, Spring               |

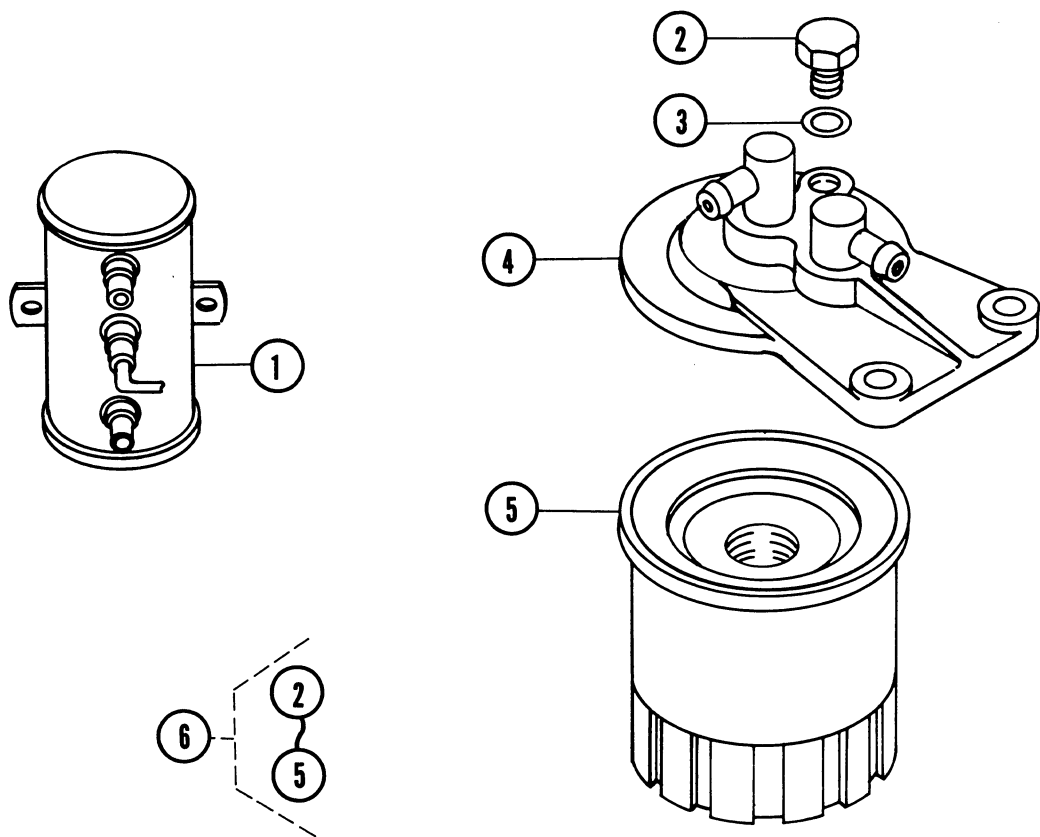
WATER PUMP GROUP



## WATER PUMP GROUP

| Item | Part No. | Unit | Description              |
|------|----------|------|--------------------------|
| 1    | 300203   | 1    | Assembly Pump, Water     |
| 2    |          |      | Order by Unit No. 1      |
| 3    | 301518   | 1    | Flange, Water Pump       |
| 4    | 301058   | 1    | Bearing                  |
| 5    | 301159   | 1    | Assembly Mechanical Seal |
| 6    | 301160   | 1    | Impeller, Water Pump     |
| 7    | 301519   | 1    | Pipe, Water Return 1     |
| 8    | 300204   | 1    | Gasket, Water Pump       |
| 9    | 300205   | 4    | Stud                     |
| 10   | 298684   | 4    | Nut                      |
| 11   | 299369   | 4    | Washer, Spring           |
| 12   | 299548   | 1    | Pulley, Fan Drive        |
| 13   | 299549   | 1    | Key, Feather             |
| 14   | 299550   | 1    | Nut, Crankshaft          |
| 15   | 300232   | 1    | Washer, Crankshaft       |
| 16   | 301515   | 1    | Pulley, Fan              |
| 17   | 299379   | 4    | Bolt                     |
| 18   | 301517   | 2    | Washer, Fan              |
| 19   | 300817   |      | Belt                     |

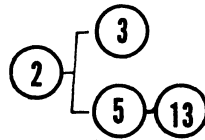
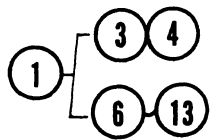
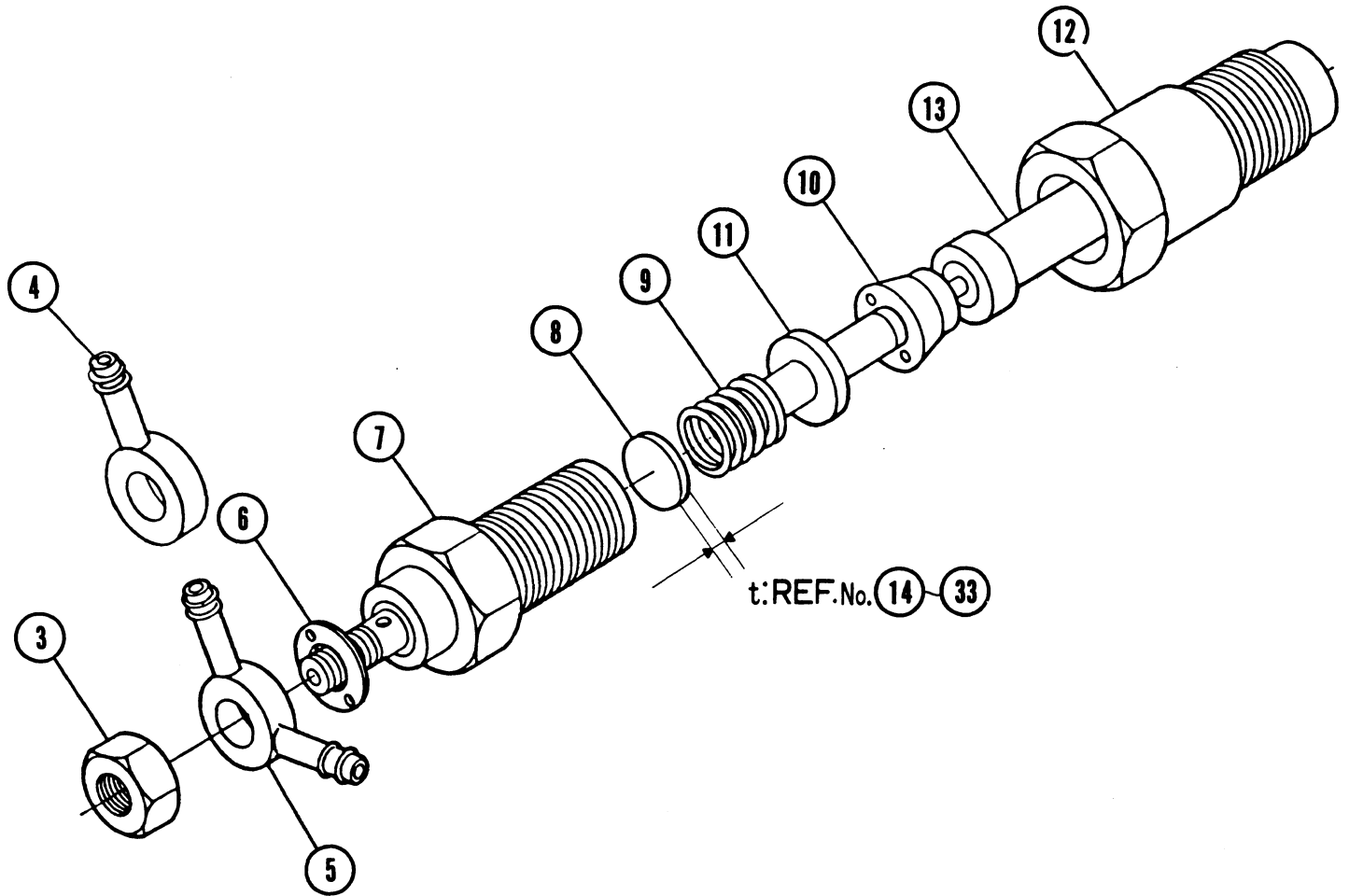
FUEL FILTER GROUP



## FUEL FILTER GROUP

| Item | Part No. | Unit | Description          |
|------|----------|------|----------------------|
| 1    | 301385   | 1    | Electric Fuel Pump   |
| 2    | 299855   | 1    | Bleed Screw          |
| 3    | 299856   | 1    | O-Ring               |
| 4    | 301602   | 1    | Fuel Filter Cover    |
| 5    | 298854   | 1    | Fuel Filter Element  |
| 6    | 298853   | 1    | Fuel Filter Assembly |

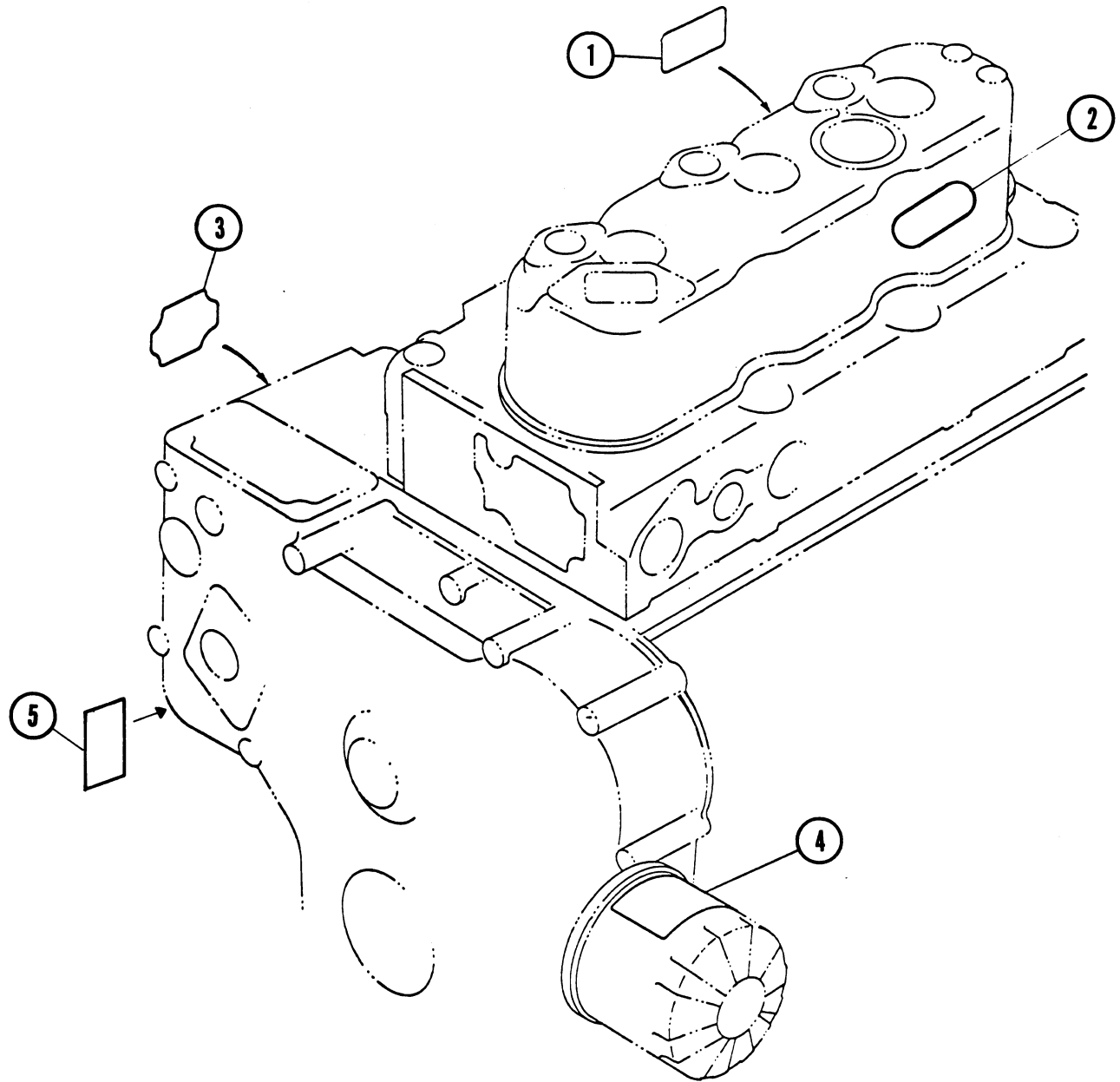
# NOZZLE HOLDER



## NOZZLE HOLDER

| Item                                                                                           | Part No. | Unit | Description         |
|------------------------------------------------------------------------------------------------|----------|------|---------------------|
| 1                                                                                              | 299517   | 1    | Assembly, Nozzle 1  |
| 2                                                                                              | 299518   | 1    | Assembly, Nozzle 2  |
| 3                                                                                              | 301508   | 1    | Nut                 |
| 4                                                                                              | 301161   | 1    | Fuel, Eye 1 Return  |
| 5                                                                                              | 301162   | 1    | Fuel, Eye 2 Return  |
| 6                                                                                              | 301137   | 1    | Washer, Plain       |
| 7                                                                                              |          |      | Order by Item No. 2 |
| 8                                                                                              | 301509   | 1    | Washer, Adjusting   |
| 9                                                                                              | 301510   | 1    | Spring, Nozzle      |
| 10                                                                                             | 301511   | 1    | Piece, Distance     |
| 11                                                                                             | 301512   | 1    | Rod, Push           |
| 12                                                                                             | 301513   | 1    | Nut, Nozzle         |
| 13                                                                                             | 301514   | 1    | Piece, Nozzle       |
| <b>NOTE:</b> Items 14-33 available in sizes ranging from<br>1.00 to 1.95 mm in .05 increments. |          |      |                     |

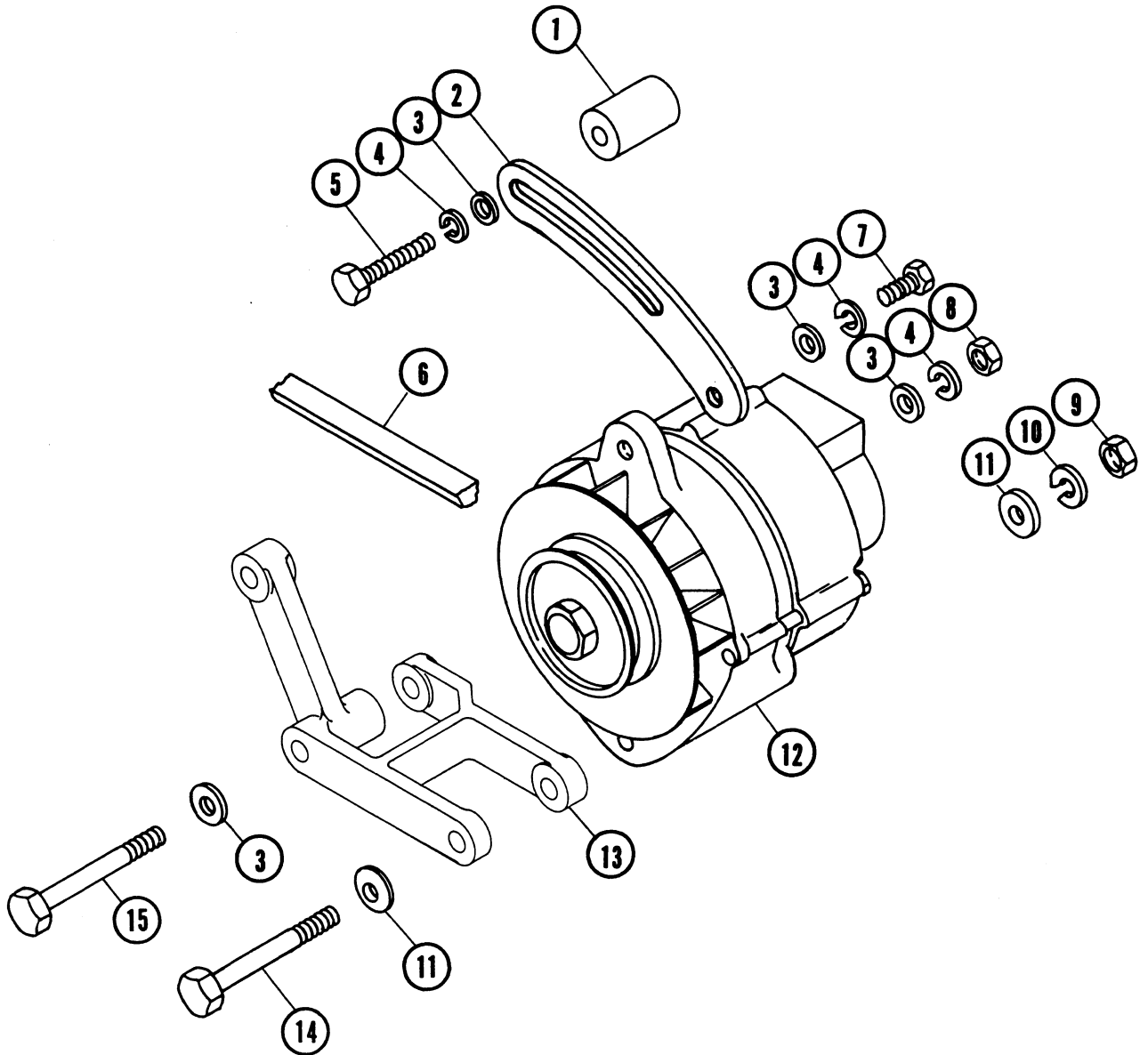
## NAME PLATE GROUP



## NAME PLATE GROUP

| Item | Part No. | Unit | Description        |
|------|----------|------|--------------------|
| 1    | 298851   | 1    | Label, Glow Plug   |
| 2    | 299609   | 1    | Label, Oil         |
| 3    | 298850   | 1    | Label, Instruction |
| 4    | 298849   | 1    | Label, Instruction |
| 5    | 298847   | 1    | Label, Drainage    |

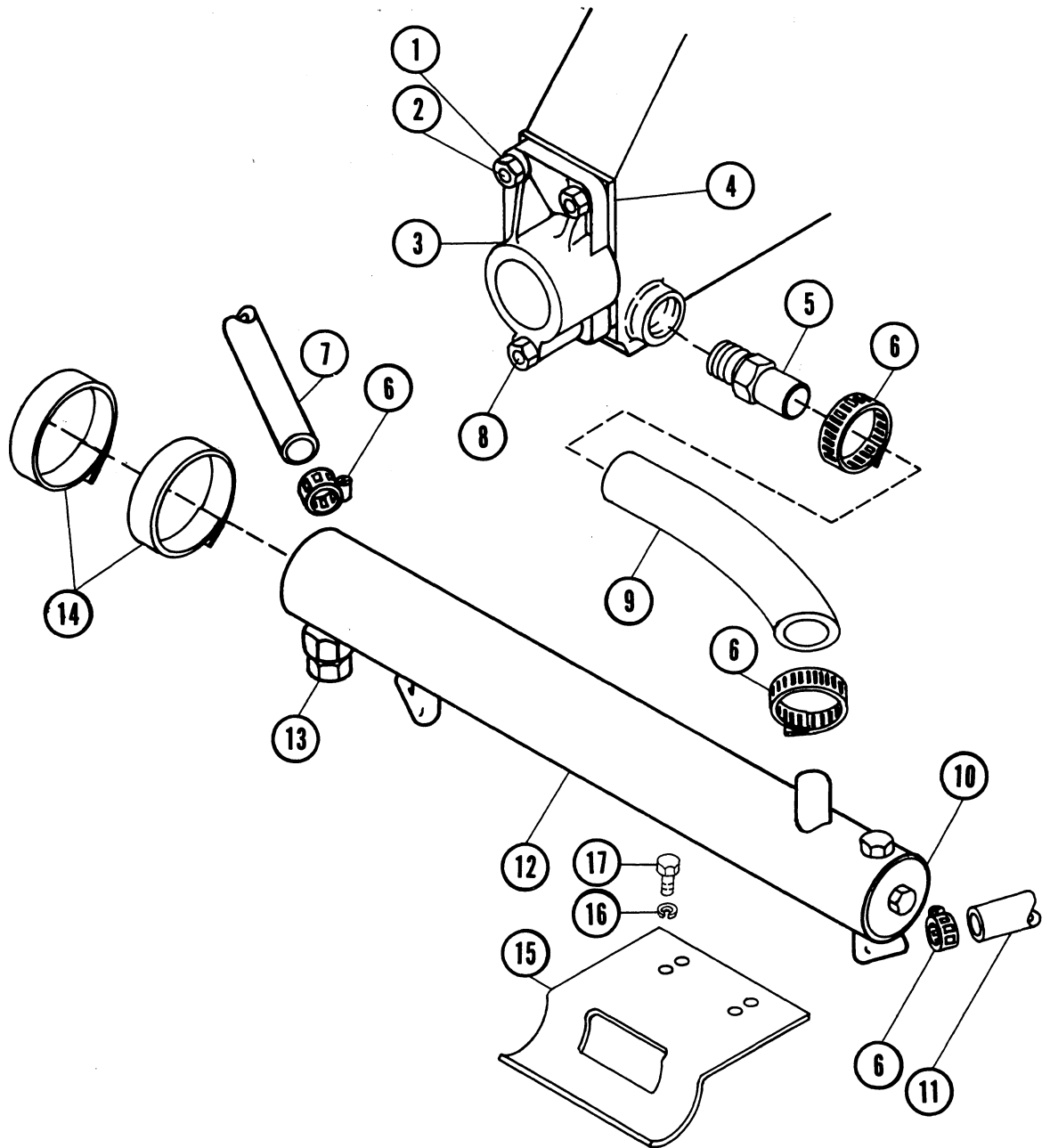
## ALTERNATOR GROUP



## ALTERNATOR GROUP

| Item | Part No. | Unit | Description                           |
|------|----------|------|---------------------------------------|
| 1    | 300105   | 1    | Spacer, Alternator Arm                |
| 2    | 299809   | 1    | Alternator Adjusting Arm              |
| 3    | 231875   | 4    | Washer, 5/16 Plain                    |
| 4    | 231891   | 3    | Washer, Spring Lock 5/16              |
| 5    | 301091   | 1    | Screw, Hex Head 5/16-18 x 3-1/4       |
| 6    | 300809   | 1    | V-Belt                                |
| 7    | 231057   | 1    | Hex Head Cap Screw 5/16-18 x 3/4      |
| 8    | 230141   | 1    | Hex Nut 5/16-18                       |
| 9    | 230144   | 1    | Hex Nut 3/8-16                        |
| 10   | 231895   | 1    | Washer, 3/8 Spring Lock               |
| 11   | 231876   | 2    | Washer, 3/8 SAE                       |
| 12   | 300800   | 1    | Alternator                            |
| 13   | 300950   | 1    | Bracket, Alternator Mounting Assembly |
| 14   | 231093   | 1    | Hex Head Cap Screw 3/8-16 x 3-3/4     |
| 15   | 243061   | 1    | Hex Head Cap Screw 5/16-18 x 4-1/2    |

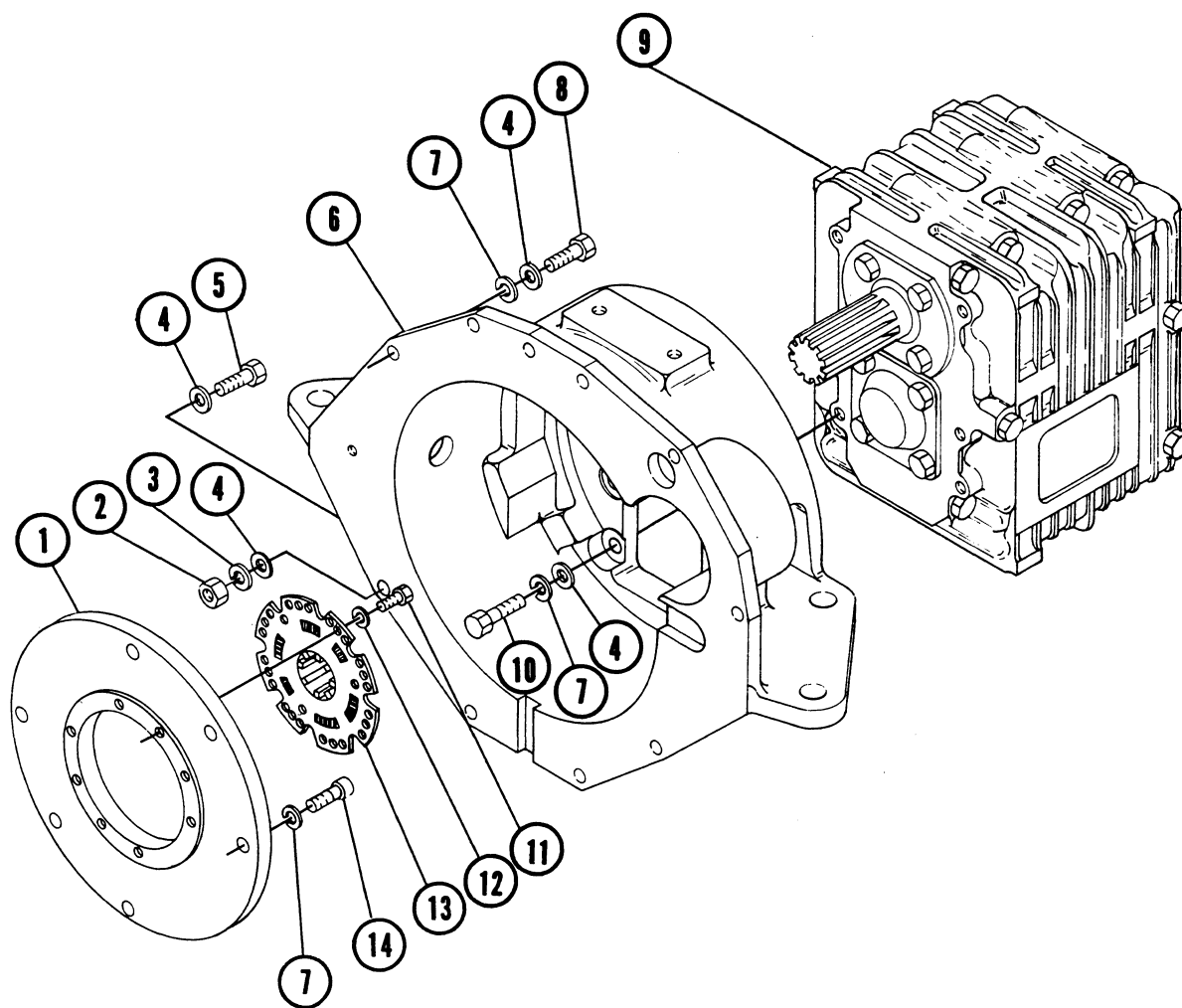
## HEAT EXCHANGER GROUP



## HEAT EXCHANGER GROUP

| Item | Part No. | Unit | Description               |
|------|----------|------|---------------------------|
| 1    | 230147   | 3    | Hex Nut 3/8-24            |
| 2    | 276440   | 2    | Stud 3/8-16 & 24 x 1-7/16 |
| 3    | 298599   | 1    | Exhaust Flange            |
| 4    | 298600   | 1    | Gasket, Exhaust Flange    |
| 5    | 286075   | 1    | Hose Connector            |
| 6    | 298648   | 4    | Hose Clamp                |
| 7    | 301077   | 1    | Hose                      |
| 8    | 298974   | 1    | Stud 3/8-16 & 24 x 2-5/8  |
| 9    | 300312   | 1    | Wire Flex Hose 7/8 I.D.   |
| 10   | 299838   | 1    | Cover Plate & Gasket      |
| 11   | 301066   | 1    | Hose                      |
| 12   | 298633   | 1    | Heat Exchanger            |
| 13   | 301069   | 1    | Zinc                      |
| 14   | 294386   | 2    | Hose Clamp No. 28         |
| 15   | 301142   | 1    | Heat Exchanger Bracket    |
| 16   | 015395   | 4    | Lockwasher                |
| 17   | 231059   | 4    | Bolt                      |

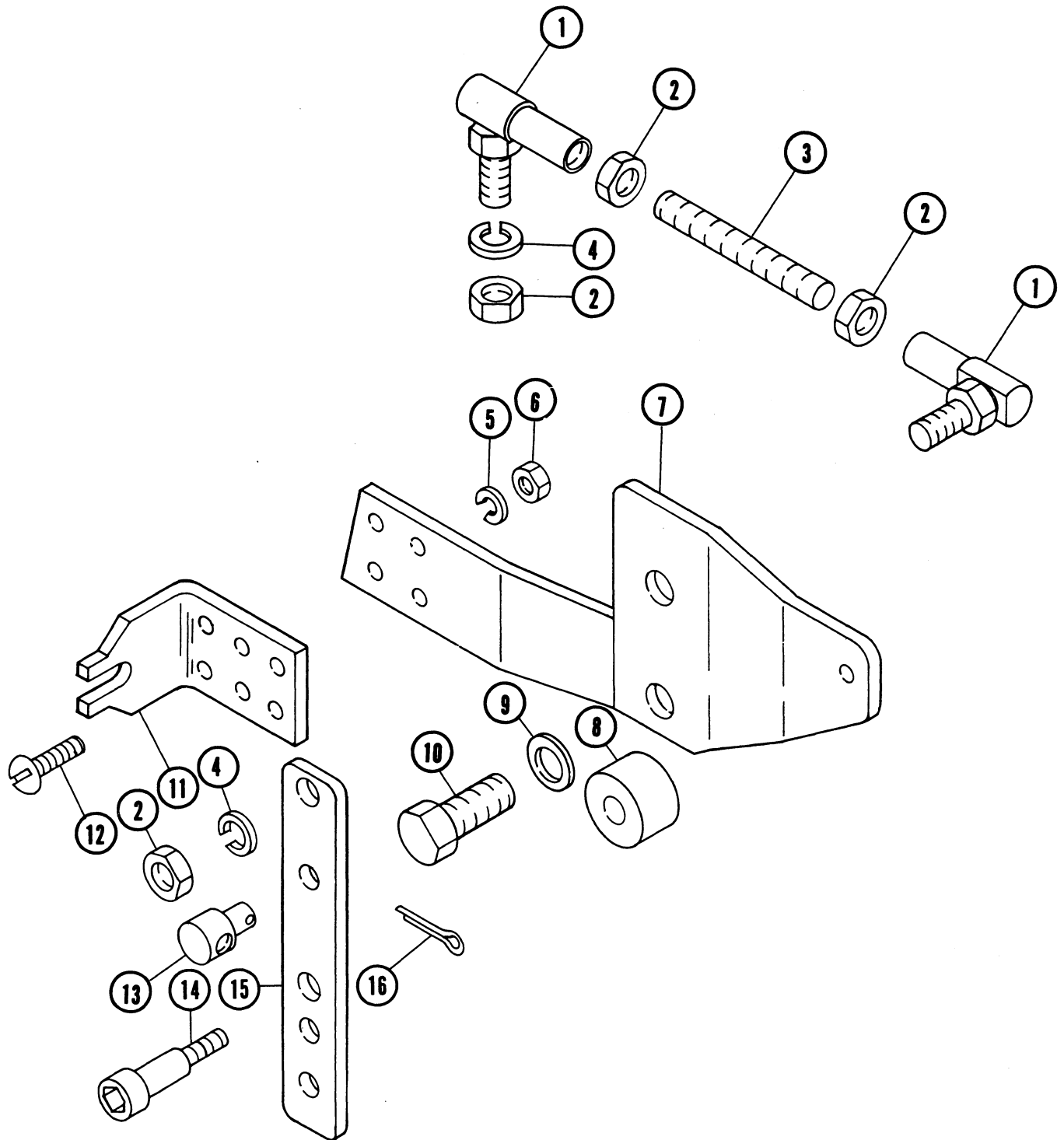
## BELL HOUSING GROUP



## BELL HOUSING GROUP

| Item | Part No. | Unit | Description                        |
|------|----------|------|------------------------------------|
| 1    | 300315   | 1    | Plate, Damper Mounting             |
| 2    | 230141   | 1    | Hex Nut 5/16-18                    |
| 3    | 231891   | 1    | Washer, 5/16 Lock                  |
| 4    | 231875   | 14   | Washer, 5/16 Plain                 |
| 5    | 231061   | 1    | Hex Head Cap Screw 5/16-18 x 1-1/2 |
| 6    | 300945   | 1    | Bell Housing                       |
| 7    | 298461   |      | Washer, 8mm Lock                   |
| 8    | 298539   | 6    | Hex Head Cap Screw 8m x 28mm       |
| 9    | 300115   | 1    | Standard Transmission              |
|      | 299942   | 1    | "V" Drive Transmission             |
| 10   | 298468   | 6    | Hex Head Cap Screw 8m x 25mm       |
| 11   | 298458   | 8    | Hex Head Cap Screw 5mm x 12mm      |
| 12   | 298459   | 8    | Washer, Split Lock                 |
| 13   | 299156   | 1    | Damper, Reverse Gear               |
| 14   | 298460   | 6    | Socket Head Cap Screw 8mm x 25mm   |

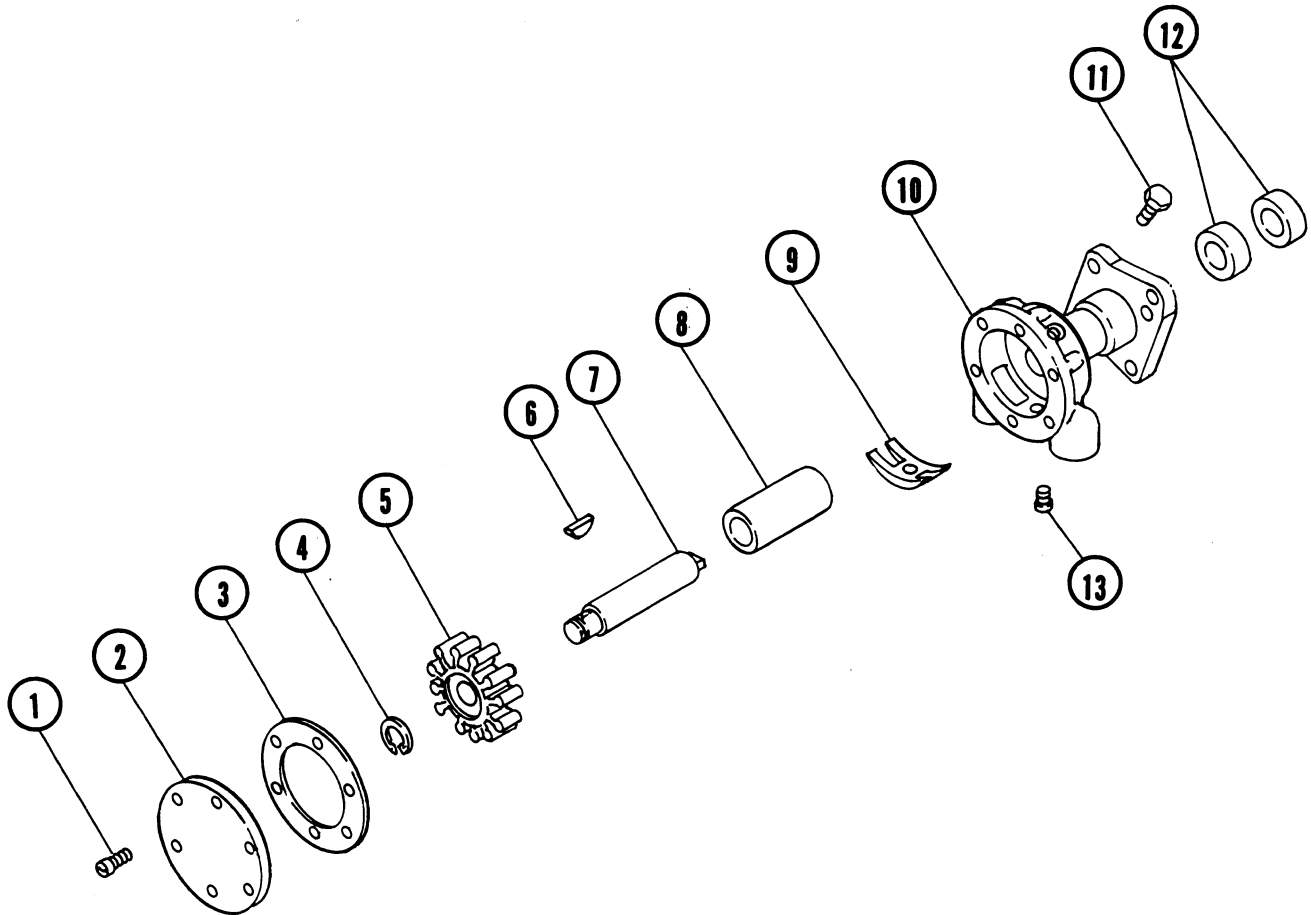
# THROTTLE BRACKET GROUP



## THROTTLE BRACKET GROUP

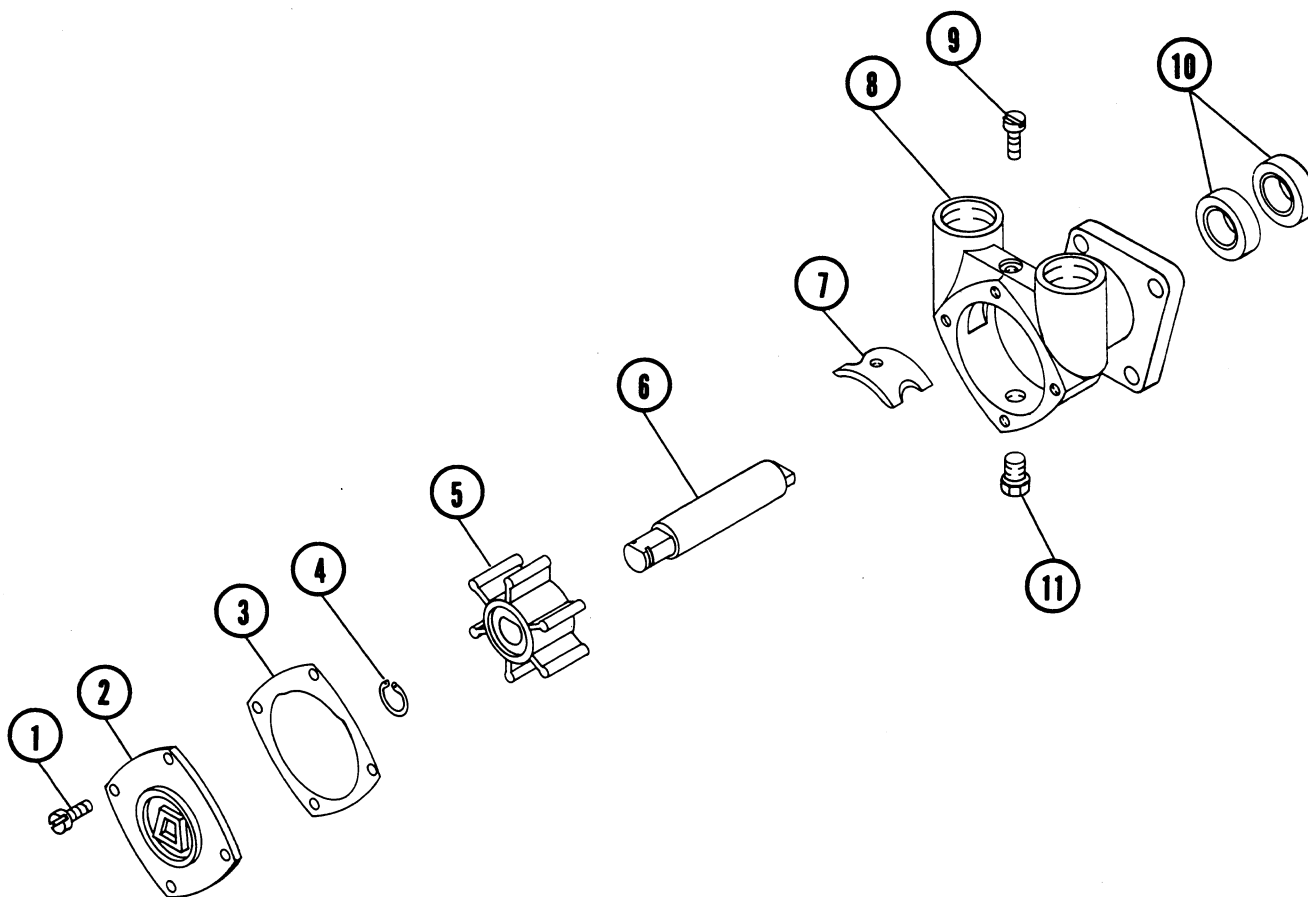
| Item | Part No. | Unit | Description                                |
|------|----------|------|--------------------------------------------|
| 1    | 299767-A | 2    | Ball Joint                                 |
| 2    | 230184   | 4    | Hex Jam Nut 1/4-28                         |
| 3    | 299792-A | 1    | Adjustment Rod                             |
| 4    | 231907   | 2    | Lock Washer 1/4                            |
| 5    | 231890   | 2    | Medium Spring Lock Washer No. 10           |
| 6    | 294581   | 3    | Machine Screw Nut No. 10-24                |
| 7    | 300958   | 1    | Throttle Bracket                           |
| 8    | 300090-A | 1    | Spacer, Lever                              |
| 9    | 231906   | 2    | Lock Washer 5/16                           |
| 10   | 299290-A | 2    | Hex Head Cap Screw 8mm x .787              |
| 11   | 298630-A | 1    | Cable Clip                                 |
| 12   | 231211   | 2    | Round Head Machine Screw No. 10-24 x 5/8   |
| 13   | 299019-A | 1    | Pivot, Throttle Cable                      |
| 14   | 231452   | 1    | Socket Head Shoulder Screw No. 10-24 x 1/4 |
| 15   | 300826-A | 1    | Lever, Throttle                            |
| 16   | 230281   | 1    | Cotter Pin                                 |

## SHERWOOD WATER PUMP



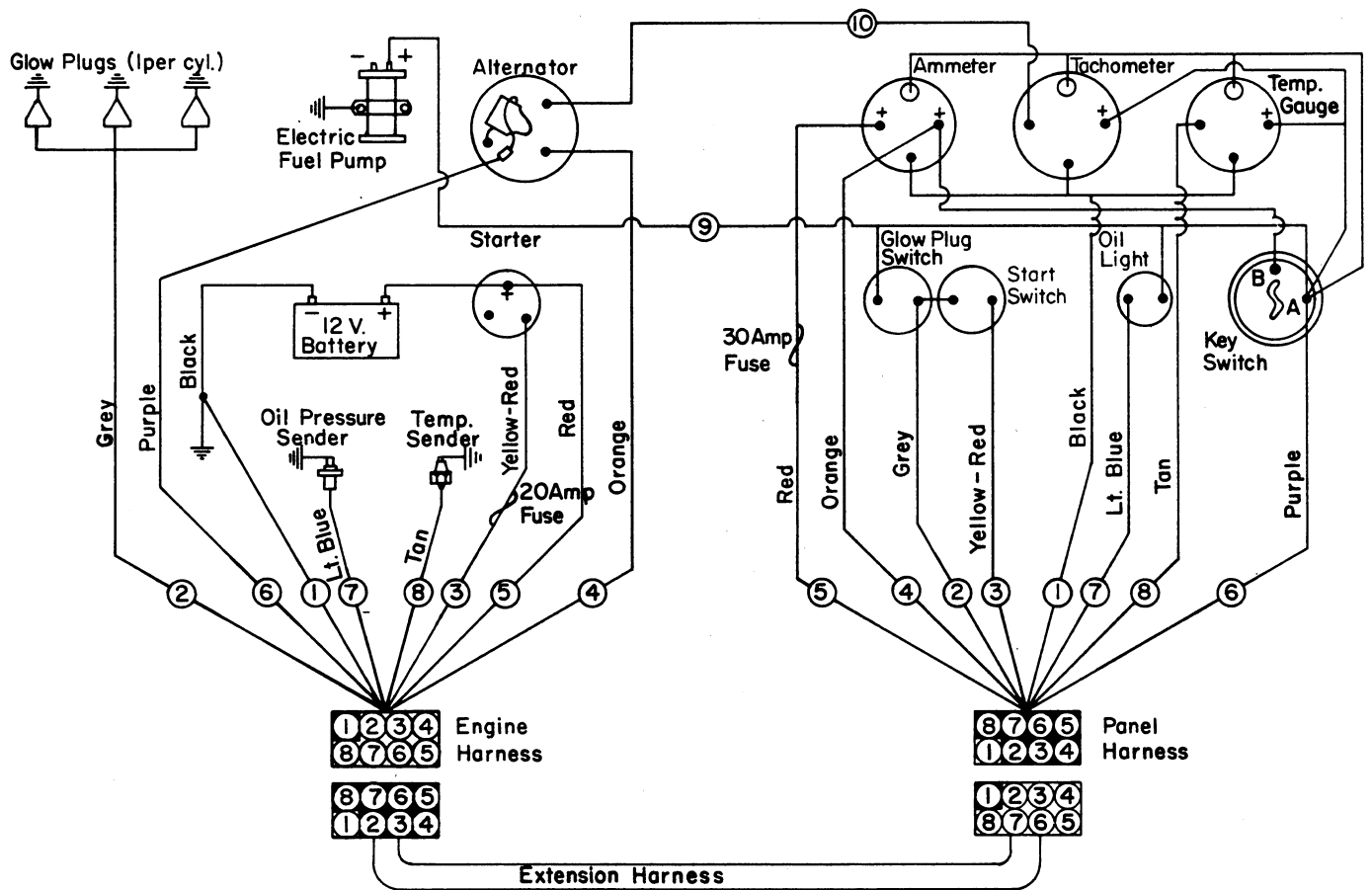
| Item | Part No. | Unit | Description        |
|------|----------|------|--------------------|
| 1    | 299895   | 6    | Cover Screws       |
| 2    | 299391   | 1    | Pump Cover         |
| 3    | 295745   | 1    | Cover Gasket       |
| 4    | 299893   | 1    | Impeller Snap Ring |
| 5    | 287439   | 1    | Impeller           |
| 6    | 299896   | 1    | Key                |
| 7    | 299888   | 1    | Pump Shaft         |
| 8    | 299889   | 1    | Water Seal         |
| 9    | 299894   | 1    | Cam                |
| 10   | 299890   | 1    | Pump Body          |
| 11   | 299895   | 1    | Cam Locking Screw  |
| 12   | 262286   | 2    | Oil Seal           |
| 13   | 239136   | 1    | Drain Plug         |

# ORBERDORFER WATER PUMP



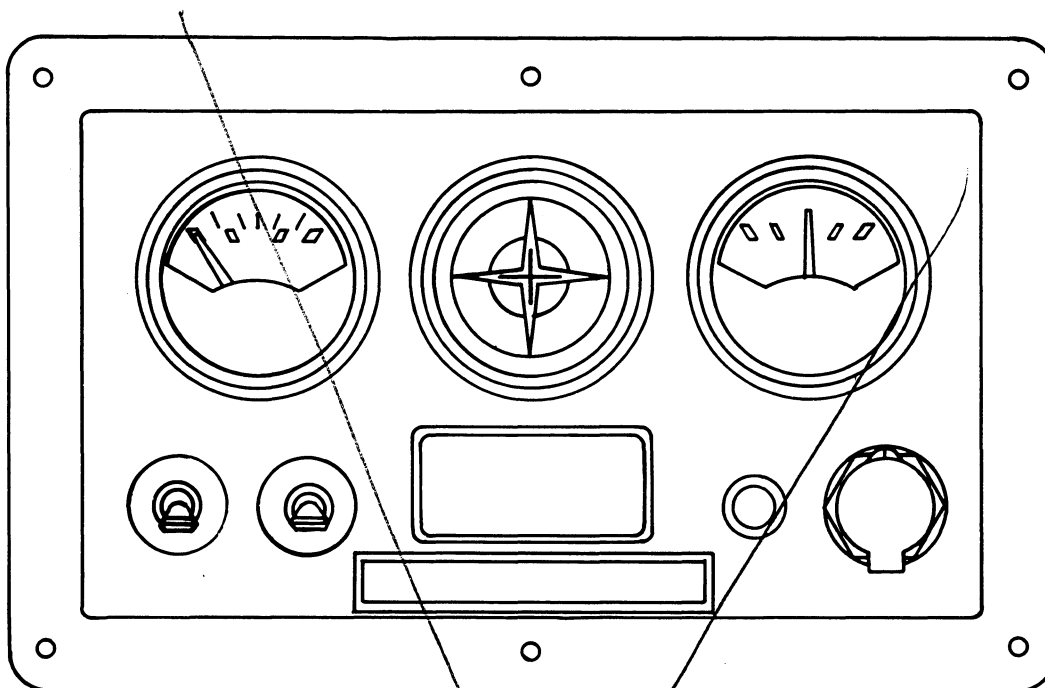
| Item | Part No. | Unit | Description        |
|------|----------|------|--------------------|
| 1    | 296580   | 4    | Cover Screws       |
| 2    | 296578   | 1    | Pump Cover         |
| 3    | 295626   | 1    | Cover Gasket       |
| 4    | 295629   | 1    | Impeller Snap Ring |
| 5    | 295628   | 1    | Impeller           |
| 6    | 296575   | 1    | Pump Shaft         |
| 7    | 298889   | 1    | Cam                |
| 8    |          | 1    | Pump Body          |
| 9    | 296580   | 1    | Cam Locking Screw  |
| 10   | 295627   | 2    | Oil Seal           |
| 11   | 296576   | 1    | Drain Plug         |

# WIRING DIAGRAM

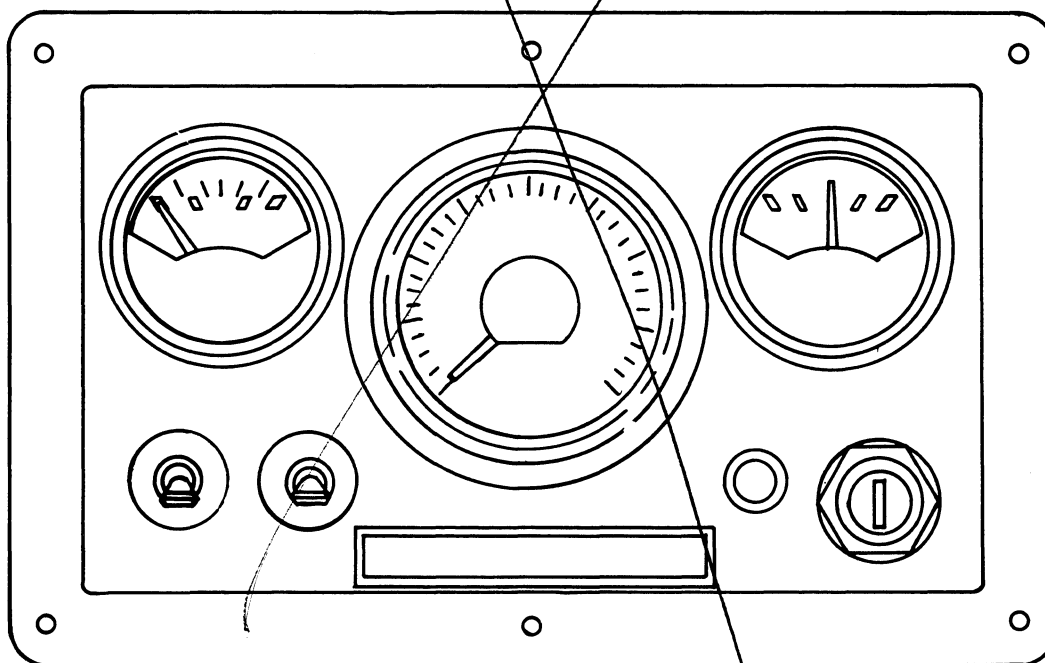


| WIRE No. | COLOR      | WIRE SIZE |
|----------|------------|-----------|
| 1        | Black      | *10       |
| 2        | Grey       | 10        |
| 3        | Yellow-Red | 16        |
| 4        | Orange     | 10        |
| 5        | Red        | 10        |
| 6        | Purple     | 16        |
| 7        | Lt. Blue   | 16        |
| 8        | Tan        | 16        |
| 9        | Open       | 14        |
| 10       | Grey       | 16        |

**MEDALLION PANELS**  
**(No Longer Available)**

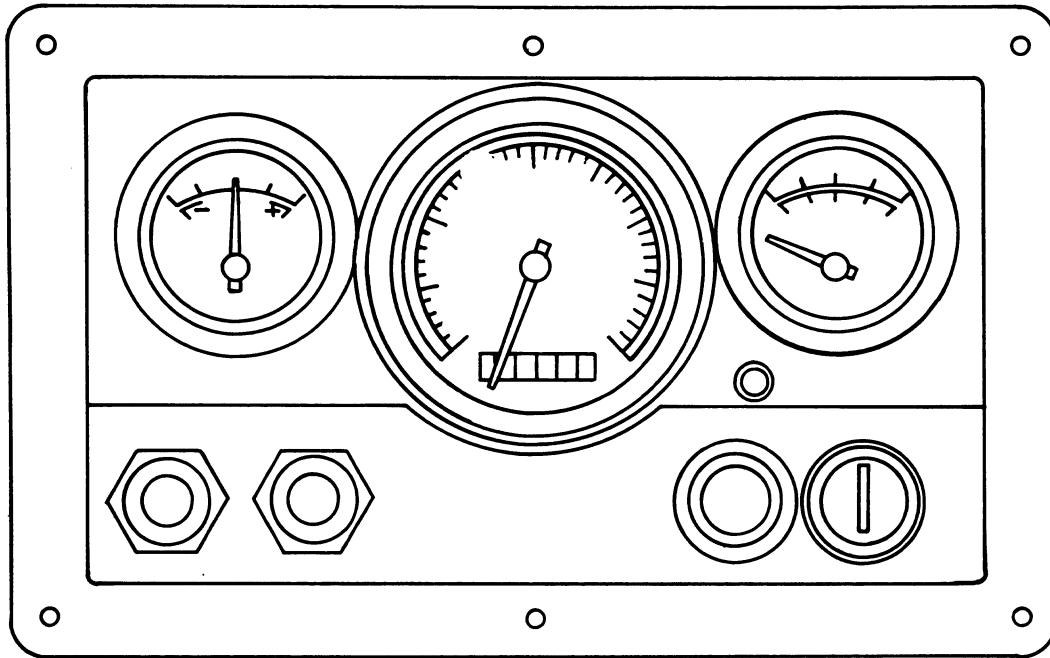


**299626 STANDARD PANEL**

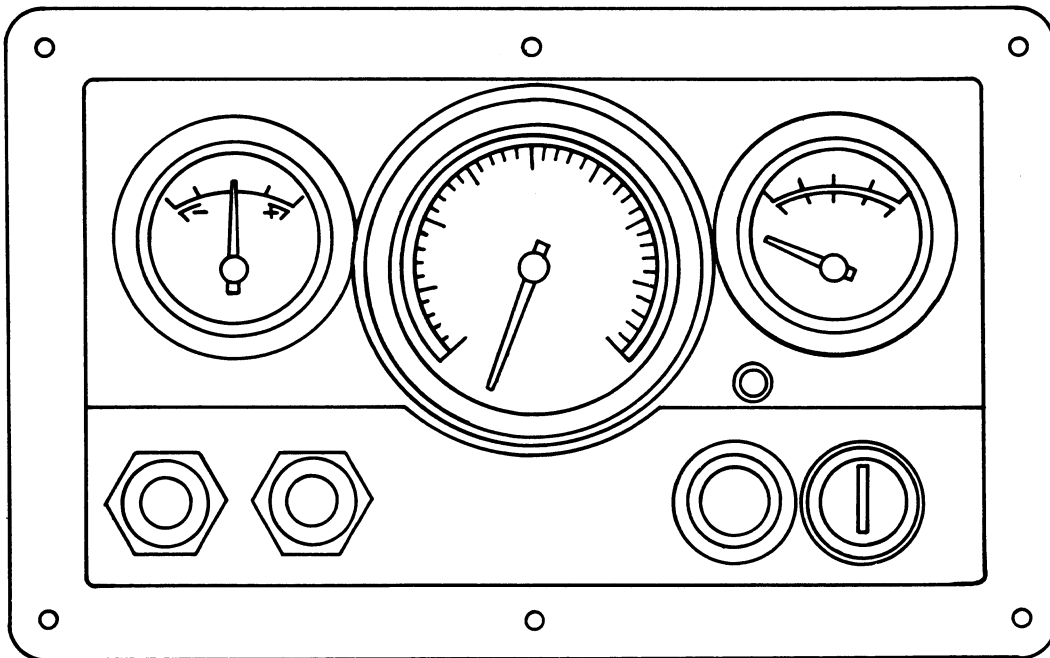


**299683 DELUXE PANEL**

## NOVATRON PANELS

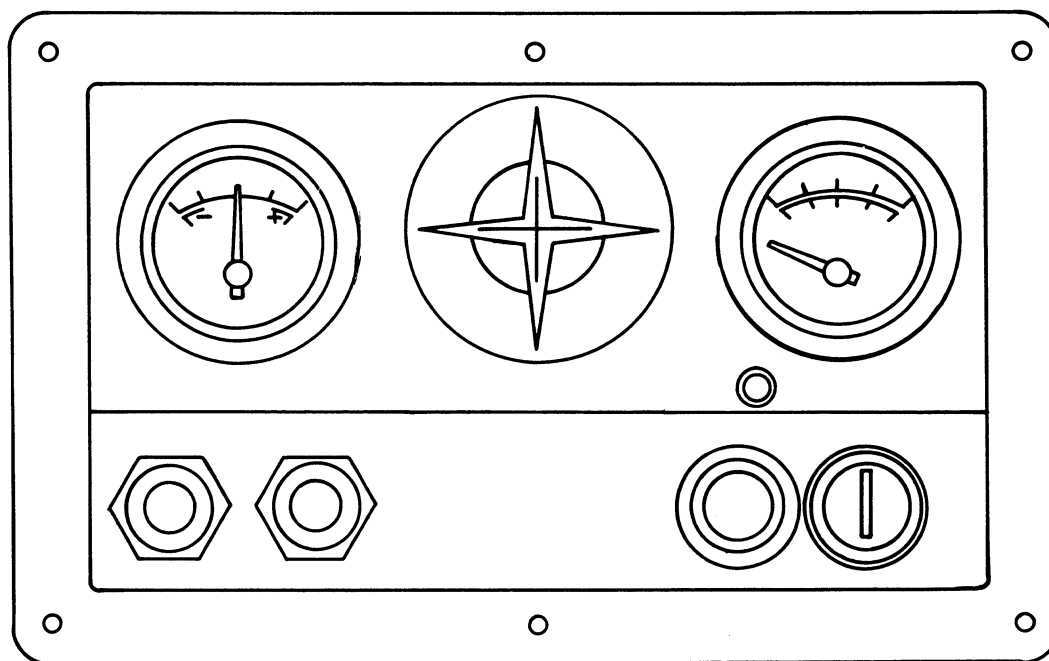


**300690 CUSTOM PANEL**



**300685 DELUXE PANEL**

## NOVATRON PANELS



**300680 STANDARD PANEL**

| NOVATRON INSTRUMENT PANEL |          |                                                                        |
|---------------------------|----------|------------------------------------------------------------------------|
| Part No.                  | Unit     | Description                                                            |
| 300690                    | Optional | Special Deluxe Panel-Tachometer w/Hourmeter w/Warning Light and Buzzer |
| 301101                    | Optional | Blank Panel w/Holes                                                    |
| 300685                    | Optional | Deluxe Panel - w/Tachometer                                            |
| 301100                    | 1        | Blank Panel w/Holes                                                    |
| 300680                    | 1        | Standard Panel                                                         |
| 301099                    | 1        | Blank Panel w/Holes                                                    |
| 300668                    | 1        | Ammeter                                                                |
| 300669                    | 1        | Oil Light                                                              |
| 300670                    | 1        | Temperature Gauge                                                      |
| 300671                    | 1        | Ignition Switch                                                        |
| 300672                    | 2        | Glow and Start Button                                                  |
| 300673                    | 1        | 35 Amp Circuit Breaker                                                 |
| 300674                    | 1        | 10 Amp Circuit Breaker                                                 |
| 300675                    | 1        | 10 Foot Extension Harness                                              |
| 300676                    | 1        | Panel Harness Assembly                                                 |
| 300684                    | Optional | Tachometer for 300685 Panel                                            |
| 300687                    | Optional | Tachometer w/Hourmeter for 300690 Panel                                |
| 300688                    | Optional | Buzz Light for 300690 Panel                                            |
| 300689                    | Optional | Tachometer Wire for 300690 Panel                                       |
| 300708                    | Optional | 5 Foot Extension Harness                                               |

**256830**  
**ONBOARD SPARE PARTS KIT M-18**

| <b>Part No.</b> | <b>Description</b>           |
|-----------------|------------------------------|
| 298416          | Pump Repair Kit              |
| 298600          | Exh. Flange Gasket           |
| 298854          | Fuel Oil Element             |
| 299517          | Nozzle Assembly Holder       |
| 299685          | Glow Plug                    |
| 300209          | Cartridge - Oil Filter       |
| 300327          | Gasket                       |
| 300817          | V-Belt, Oil & Heat Resistant |
| 374747          | Hose Clamp 3/8"              |

**Valve Grind Gasket Set**

M-18 256837

**Complete Gasket Set**

M-18 256838

| STANDARD COUPLING KITS |        |        |
|------------------------|--------|--------|
|                        | Rigid  | Flex   |
| 3/4"                   | 256741 | 298568 |
| 7/8"                   | 256742 | 298569 |
| 1"                     | 256743 | 298484 |
| 1-1/8"                 | 256744 | 298570 |
| 1-1/4"                 | 256745 | 299300 |

| V-DRIVE COUPLING KITS |        |        |
|-----------------------|--------|--------|
|                       | Rigid  | Flex   |
| 3/4"                  | 256775 | 256780 |
| 7/8"                  | 256776 | 256781 |
| 1"                    | 256777 | 256782 |
| 1-1/8"                | 256778 | 256783 |
| 1-1/4"                | 256779 | N/A    |

| POWER TAKE-OFF |                        |
|----------------|------------------------|
| Part No.       | Description            |
| 300658         | 5" Single PTO Assembly |
| 300660         | 5" Double PTO Assembly |
| 300659         | 7" Single PTO Assembly |
| 300661         | 7" Double PTO Assembly |
| 300662         | 5" and 7" PTO Assembly |
| 300649         | Coupling               |
| 300631         | 5" Sheave              |
| 300648         | 7" Sheave              |

