

# **FINN**

## **CORPORATION**



## **HydroSeeder**

### **PARTS MANUAL**

MODEL NO. T-60 SERIAL NO. RS



## WARRANTY

Finn warrants to the original Purchaser for use (or rental to others for use) all new construction machinery and attachments therefore manufactured by Finn to be free from defects in material and workmanship for a period of 12 months from date of purchase or 1200 hours of use, whichever comes first. Replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product in which installed, as if such parts were original components of that product. Finn makes no warranty with respect to (a) allied equipment or grade accessories not manufactured by it (such as, but not limited to tires, ignitions, starters, batteries, magnetos, carburetors, engines or like or unlike equipment or accessories), such being subject to the warranty, if any, provided by their respective manufacturers; or (b) second-hand, used, altered, or rebuilt machines. THE WARRANTY DESCRIBED IN THIS PARAGRAPH SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Upon notification of Finn within the above-stated warranty period of any failure to conform to this warranty, and upon inspection by Finn to verify said nonconformity and to verify the continuing existence of the warranty period, Finn will provide a new part or a repaired part, whichever Finn elects, to replace the part found to be defective. Such parts will be provided without charge to the Purchaser during normal working hours at a place of business of a Finn dealer or other establishment authorized by Finn to effect said repairs or replacements, but Purchaser shall bear all costs of transporting the product to and from such place of business or establishment. Correction of nonconformities, in the manner and for the period time provided above, shall constitute fulfillment of all liabilities of Finn under this contract.

THE REMEDIES OF THE USER SET FORTH HEREIN ARE EXCLUSIVE, WITHOUT REGARD TO WHETHER ANY DEFECT WAS DISCOVERABLE OR LATENT AT THE TIME OF DELIVERY OF THE PRODUCT TO THE PURCHASER. The essential purpose of this exclusive remedy shall be to provide the Purchaser with repair or replacement of parts that prove to be defective within the period and under the conditions previously set forth. This exclusive remedy shall not have failed of its essential purpose (as that term is used in the uniform Commercial Code) provided Finn remains willing to repair or replace defective parts within a commercially reasonable time after it obtains actual knowledge of the existence of a particular defect.

IN NO EVENT SHALL FINN BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING LOST PROFITS OR LOST COMMERCIAL OPPORTUNITIES, WITH RESPECT TO THE SALE OF THE ABOVE-WARRANTED PRODUCT OR ANYTHING DONE IN CONNECTION THEREWITH, OR FOR PROPERTY DAMAGE SUSTAINED BY A PERSON CLAIMING TO BE A THIRD-PARTY BENEFICIARY OF A SURVIVING WARRANTY UNDER THE LAW OF ANY JURISDICTION.

Effective October 1, 1989.



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## **LUBRICATION INSTRUCTIONS**

**SERVICE DAILY:** Generally means service every 10 hours.

**SERVICE WEEKLY:** Generally means service every 50 hours.

### **PRESSURE LUBRICATOR**

Must be kept filled during operation. Check each time machine is started. Lack of attention will result in premature seal failure. Keep clean at all times. Use Soda Base grease.

### **END BEARINGS**

Grease at end of each day's operation using chassis lubricant.

### **ENGINE CRANK CASE**

Change oil every 50 hours (follow instructions in engine manual).

### **AIR CLEANER**

Clean weekly. More often if necessary. Check and clean center tube. Be sure air cleaner tube is connected to engine at all times.

### **PUMP**

Grease pump bearings every 50 hours using chassis lubricant.  
**DO NOT OVERFILL.**

### **OIL FILTER**

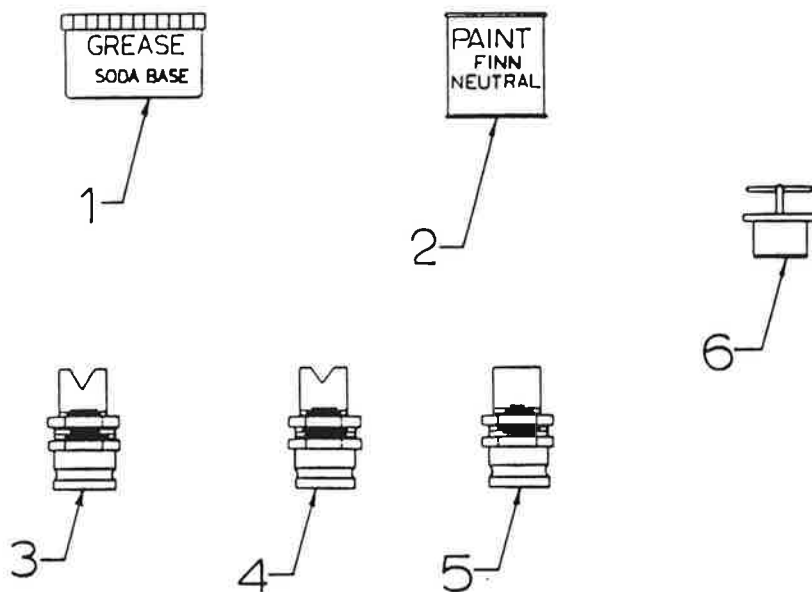
Replace oil filter every 100 hours of operation (follow instructions in engine manual).

### **HYDRAULIC SYSTEM**

Check fluid level - change oil and filter if milky or after 500 hours. Use Gulf 46AW, Mobile DTE25, or Shell-Tellus 29 (or equivalent ISO grade 46 hydraulic oil).

### **CLUTCH**

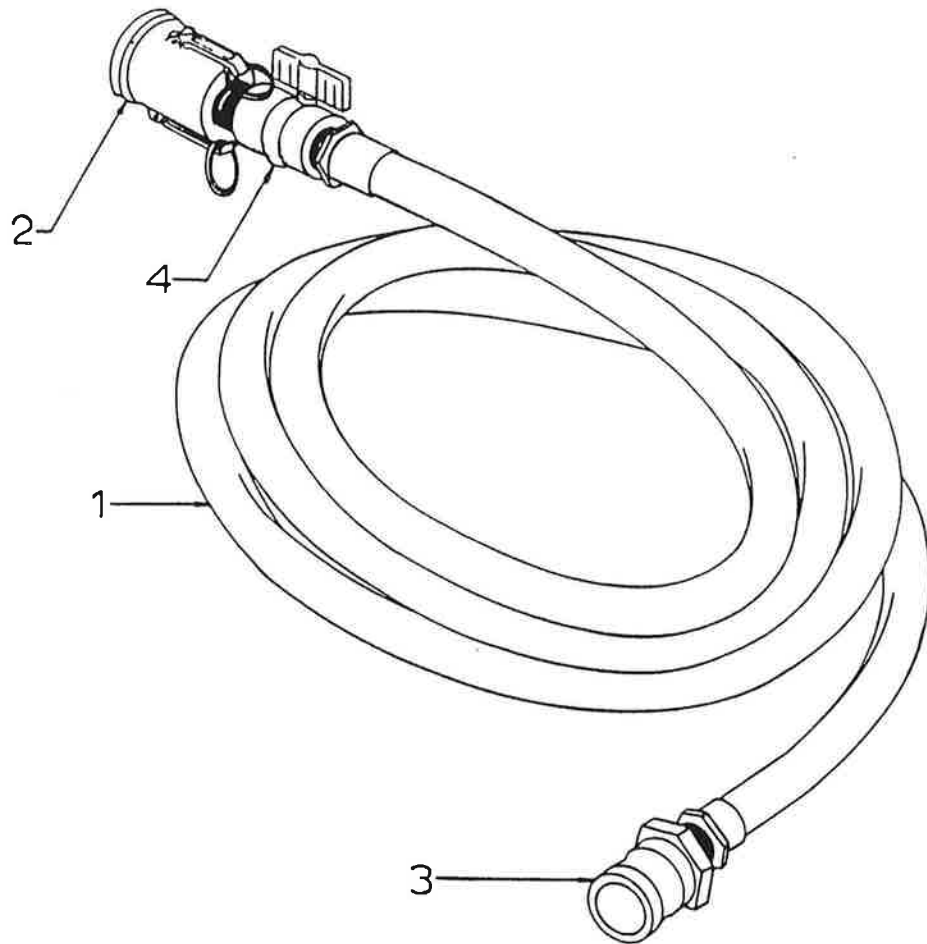
Anti-Friction bearings and clutch levers and linkage should be serviced after every 50 hours of operation using a chassis lubricant.



### TOOL KIT

| Ref. No. | Part No. | Description                | No. Req'd. |
|----------|----------|----------------------------|------------|
| 1        | 000698   | Grease, Pump Lubricant     | 1          |
| 2        | 008204   | Paint, Touch Up            | 1          |
| 3        | 080395   | Narrow Fan Nozzle Assembly | 1          |
|          | 006605   | Nozzle                     | 1          |
|          | 080260   | Adapter                    | 1          |
|          | 160750   | Bushing                    | 1          |
| 4        | 080394   | Wide Fan Nozzle Assembly   | 1          |
|          | 004605   | Nozzle                     | 1          |
|          | 080260   | Adapter                    | 1          |
|          | 160750   | Bushing                    | 1          |
| 5        | 080273   | Long Range Nozzle Assembly | 1          |
|          | 080131   | Nozzle                     | 1          |
|          | 080260   | Adapter                    | 1          |
|          | 160749   | Bushing                    | 1          |
| 6        | 004593   | Drain Plug                 | 1          |
|          |          | Parts Book, Engine         | 1          |
|          |          | Operators Manual           | 1          |
|          |          | Parts Manual               | 1          |

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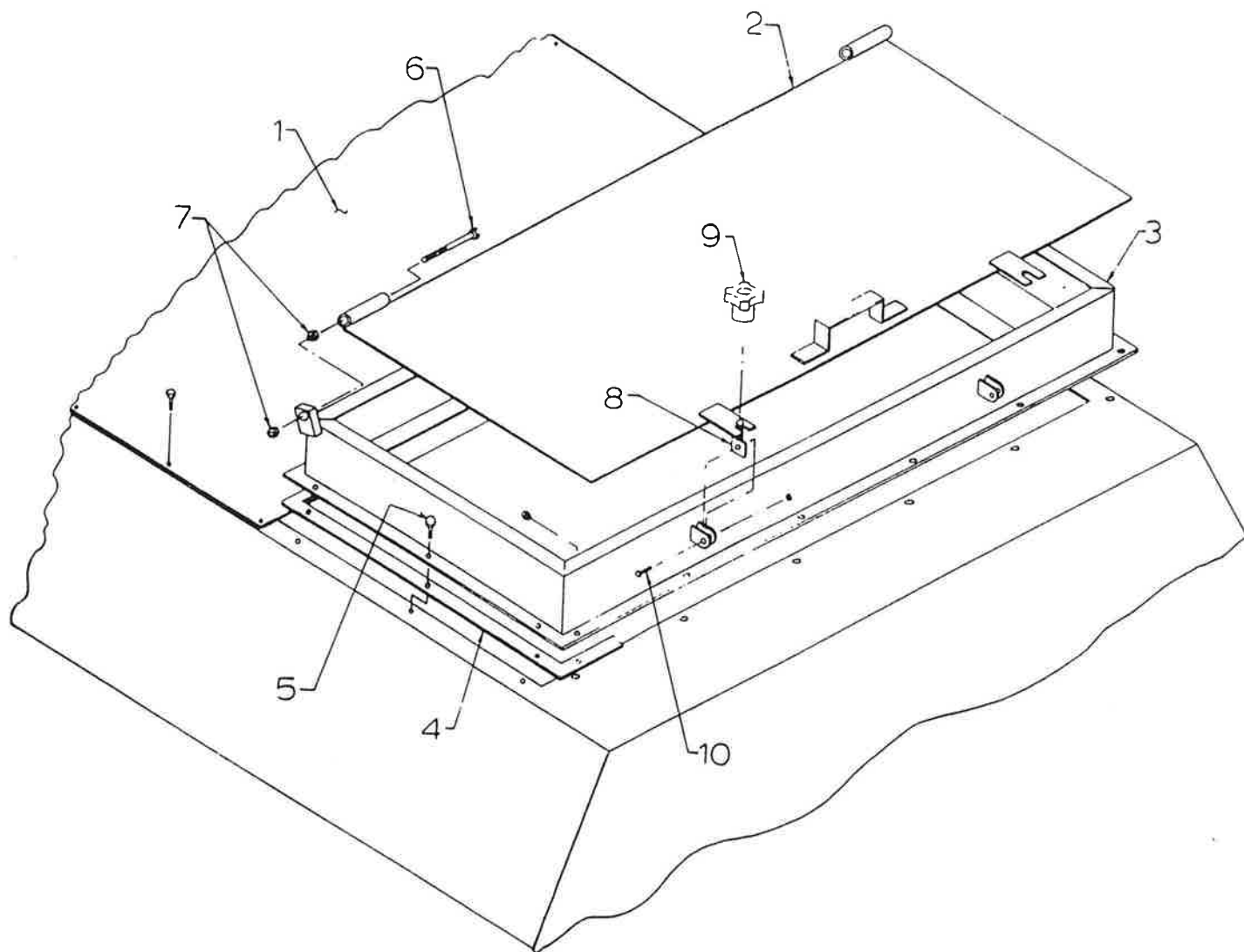
### DISCHARGE HOSE ASSEMBLIES

| Ref. No. | Part No.  | Description                      | No. Req'd. |
|----------|-----------|----------------------------------|------------|
|          | 080238-05 | Discharge Hose Assembly - 50 ft. | 1          |
| 1        | 080238    | Discharge Hose x 50 ft.          | 1          |
| 2        | 080261    | Female Coupler                   | 1          |
| 3        | 080260    | Adapter                          | 1          |
| 4        | 080263    | Remote Valve                     | 1          |
| 4A       | 160307    | Close Nipple (Not Shown)         |            |

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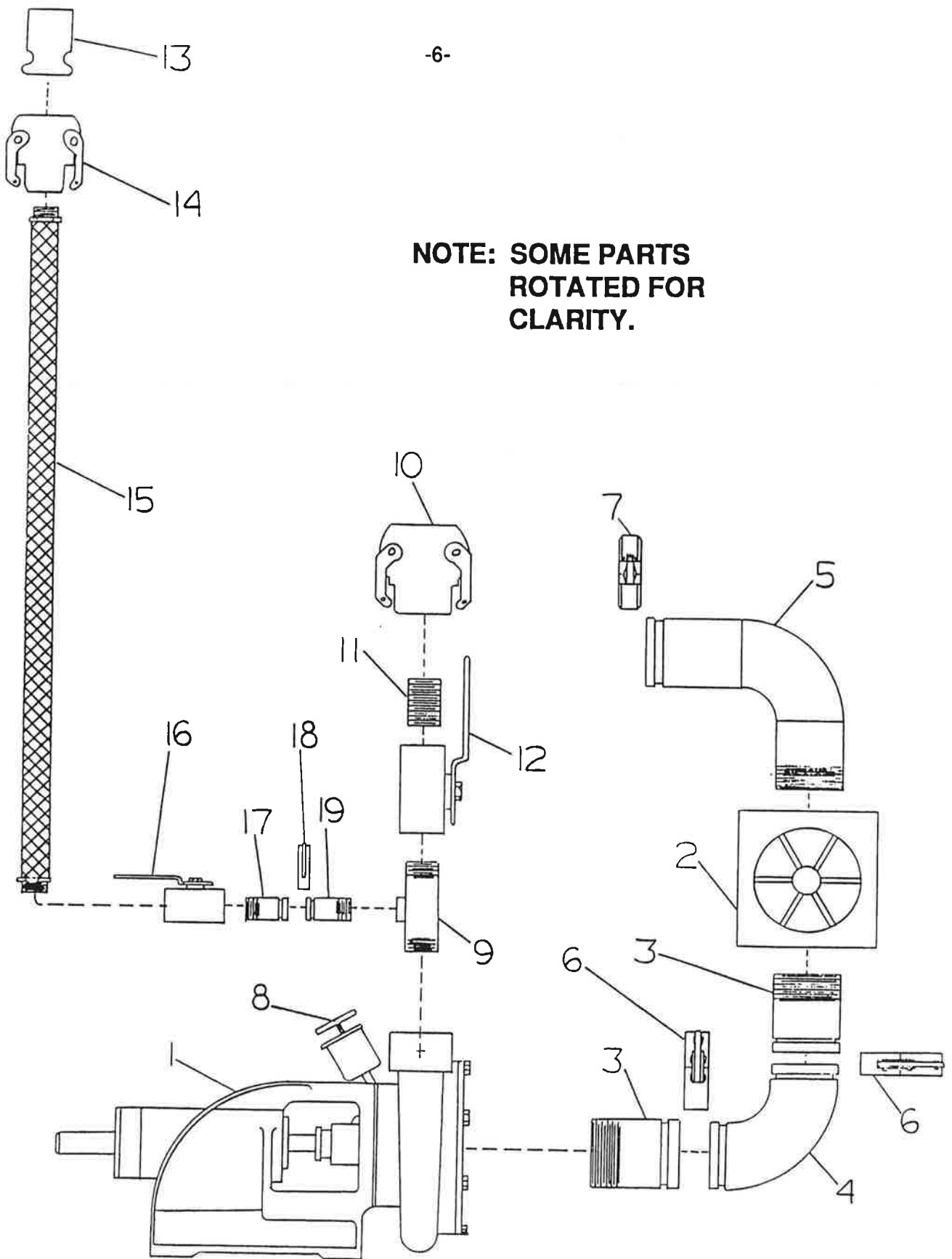
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## HATCH ASSEMBLY

| Ref. No. | Part No. | Description                 | No. Req'd. |
|----------|----------|-----------------------------|------------|
| 1        | 080241   | Tank Cover                  | 1          |
| 1A       | 190047   | Tank Cover Seal (Not Shown) | 15'        |
| 2        | 080137   | Hatch Lid                   | 1          |
| 2A       | 190001   | Chain                       | 18"        |
| 3        | 080239   | Hatch Liner                 | 1          |
| 4        | 190047   | Hatch Liner Gasket          | 130"       |
| 5        | X0512    | Bolt                        | 14         |
|          | Y04L     | Nut                         | 14         |
| 6        | X0872    | Bolt                        | 2          |
| 7        | Y08L     | Nut                         | 4          |
| 8        | 070579   | Hold Down Stud              | 2          |
| 9        | 070583   | Knob                        | 2          |
| 10       | X0416    | Bolt                        | 2          |
|          | Y04L     | Nut                         | 2          |

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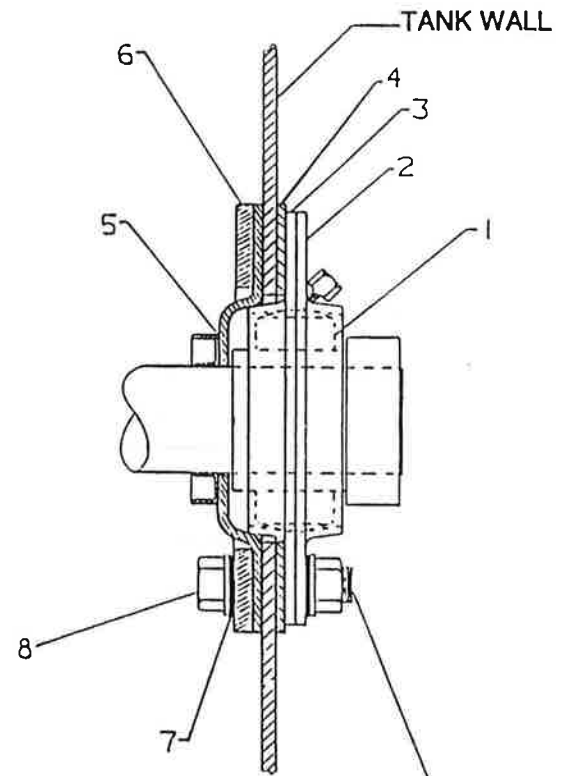
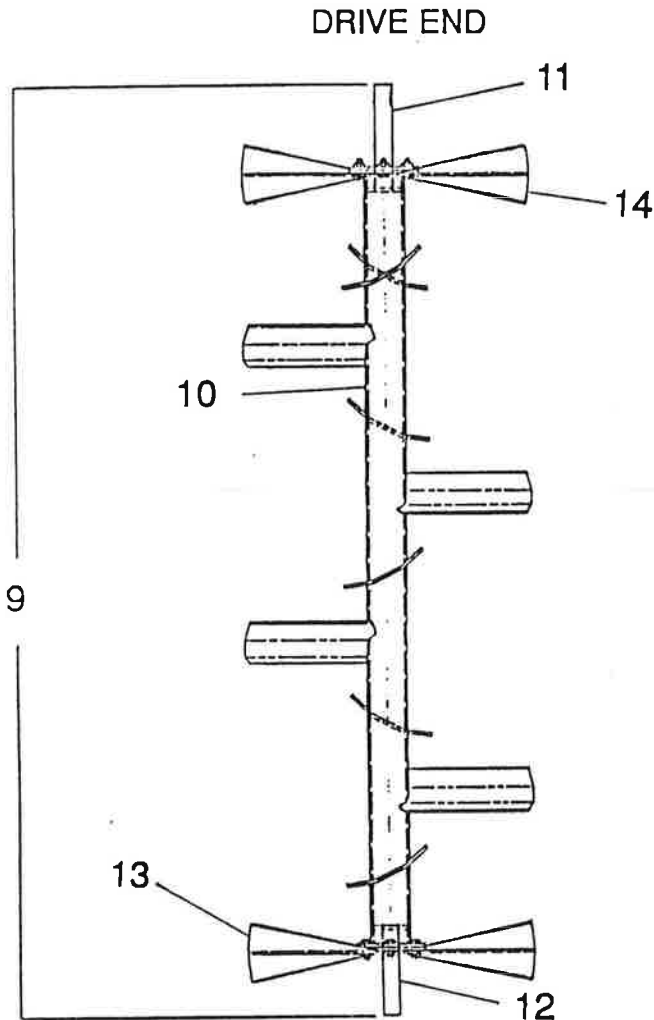
**NOTE: SOME PARTS  
ROTATED FOR  
CLARITY.**

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## SUCTION AND RECIRCULATION

| Ref. No. | Part No.  | Description                          | No. Req'd. |
|----------|-----------|--------------------------------------|------------|
| 1        | 080331    | Suction Pump (See page 20 for parts) | 1          |
| 2        | 004737    | Suction Shut-Off Valve               | 1          |
| 3        | 080364-08 | Connector Pipe                       | 2          |
| 4        | 002868    | Elbow                                | 1          |
| 5        | 080365-02 | Connecting Pipe Elbow                | 1          |
| 6        | 002438    | Pipe Clamp                           | 2          |
|          | 002439    | Seal, Pipe Clamp                     | 1 per      |
| 7        | 080366    | Pipe Clamp                           | 1          |
|          | 002439    | Seal, Pipe Clamp                     | 1 per      |
| 8        | 002383    | Pressure Lubricator                  | 1          |
| 8A       | 160322    | Nipple (Not Shown)                   | 1          |
| 8B       | 160697    | Bell Reducer (Not Shown)             | 1          |
| 9        | 080364-12 | Recirculation Tee                    | 1          |
| 10       | 080377    | Female Coupler                       | 1          |
|          | 080262    | Gasket, Coupler                      | 1          |
| 11       | 160309    | Close Nipple                         | 1          |
| 12       | 007710    | Ball Valve                           | 1          |
| 13       | 080095    | Male Adapter                         | 1          |
| 14       | 080094    | Female Coupler                       | 1          |
|          | 080262    | Gasket, Coupler                      | 1          |
| 15       | 080403    | Recirculation Hose                   | 1          |
| 16       | 085027    | Ball Valve                           | 1          |
| 17       | 005083-08 | Recirculation Connector              | 1          |
| 18       | 005156    | Pipe Clamp                           | 1          |
|          | 005183    | Seal, Pipe Clamp                     | 1 per      |
| 19       | 005083-07 | Recirculation Nozzle                 | 1          |

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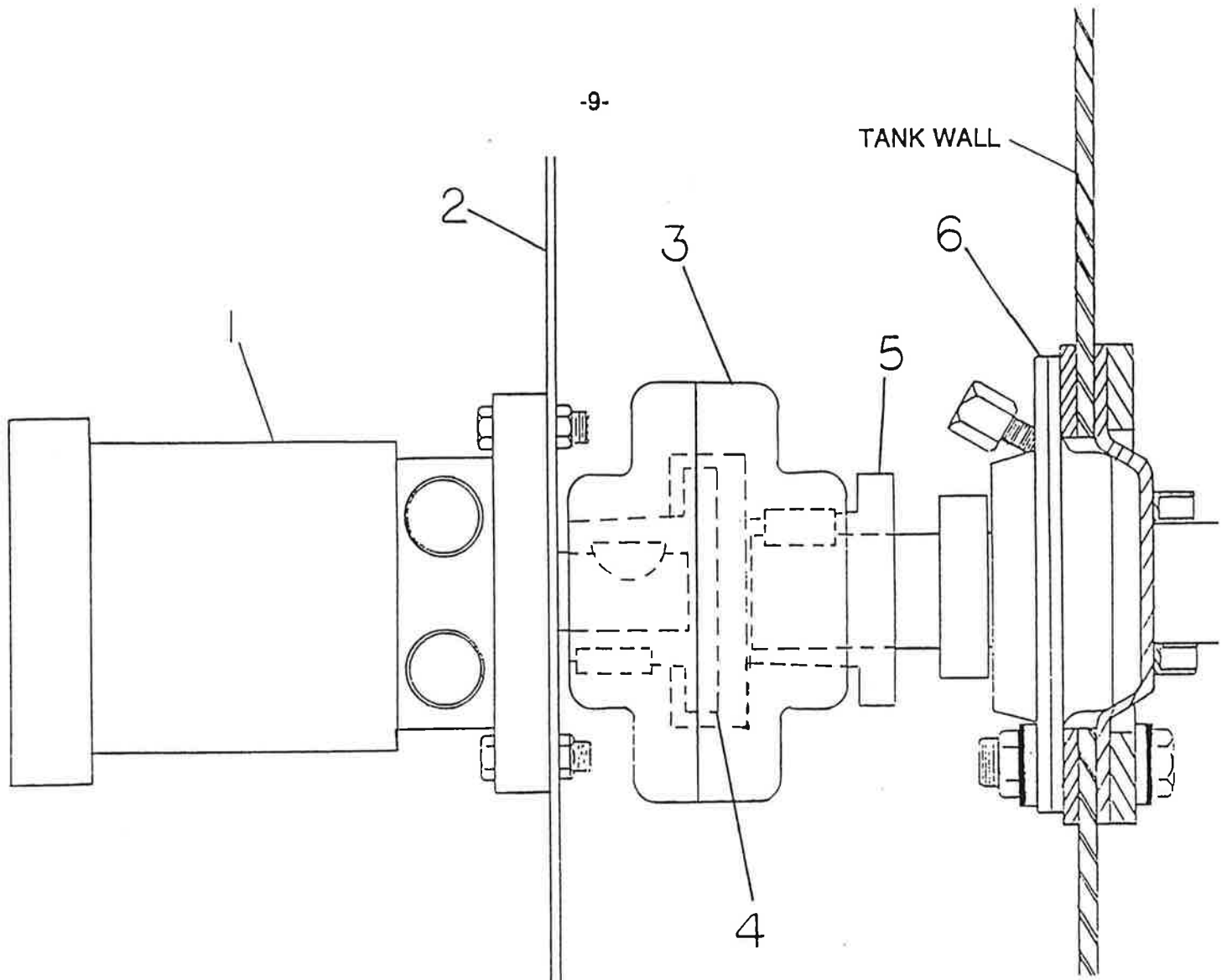
TORQUE TO 25 FT LBS  
DO NOT OVERTORQUE

NUT AND BOLT ROTATED  
45° FROM TRUE POSITION  
FOR CLARITY. TO TIGHTEN  
TURN NUT, NOT BOLT.

### AGITATOR ASSEMBLY

| Ref. No. | Part No.  | Description                        | No. Req'd. |
|----------|-----------|------------------------------------|------------|
|          | 007420    | Bearing and Seal Assembly Includes | 2          |
| 1        | 003022    | Bearing                            | 1 per      |
| 2        | 007211    | Flangette with Lube Coupling       | 1 per      |
| 3        | 007212    | Flangette                          | 1 per      |
| 4        | 006975    | Gasket                             | 1 per      |
| 5        | 007416    | Shaft Seal                         | 1 per      |
| 6        | 007417    | Clamping Ring                      | 1 per      |
| 7        | 008008    | Rubber Washer                      | 8 per      |
| 8        | X0824     | Bolt                               | 4 per      |
|          | Y08       | Nut                                | 4 per      |
|          | W08F      | Washer                             | 8 per      |
| 9        | 080352    | Agitator Assembly                  | 1          |
| 10       | 080351    | Agitator Shaft with Paddles        | 1          |
| 11       | 005081-02 | Drive End Stub Shaft               | 1          |
| 12       | 080350-03 | Agitator Stub Shaft                | 1          |
| 13       | 011725-02 | Front Bolt-on Paddles              | 2          |
| 14       | 011725-01 | Rear Bolt-on Paddles               |            |

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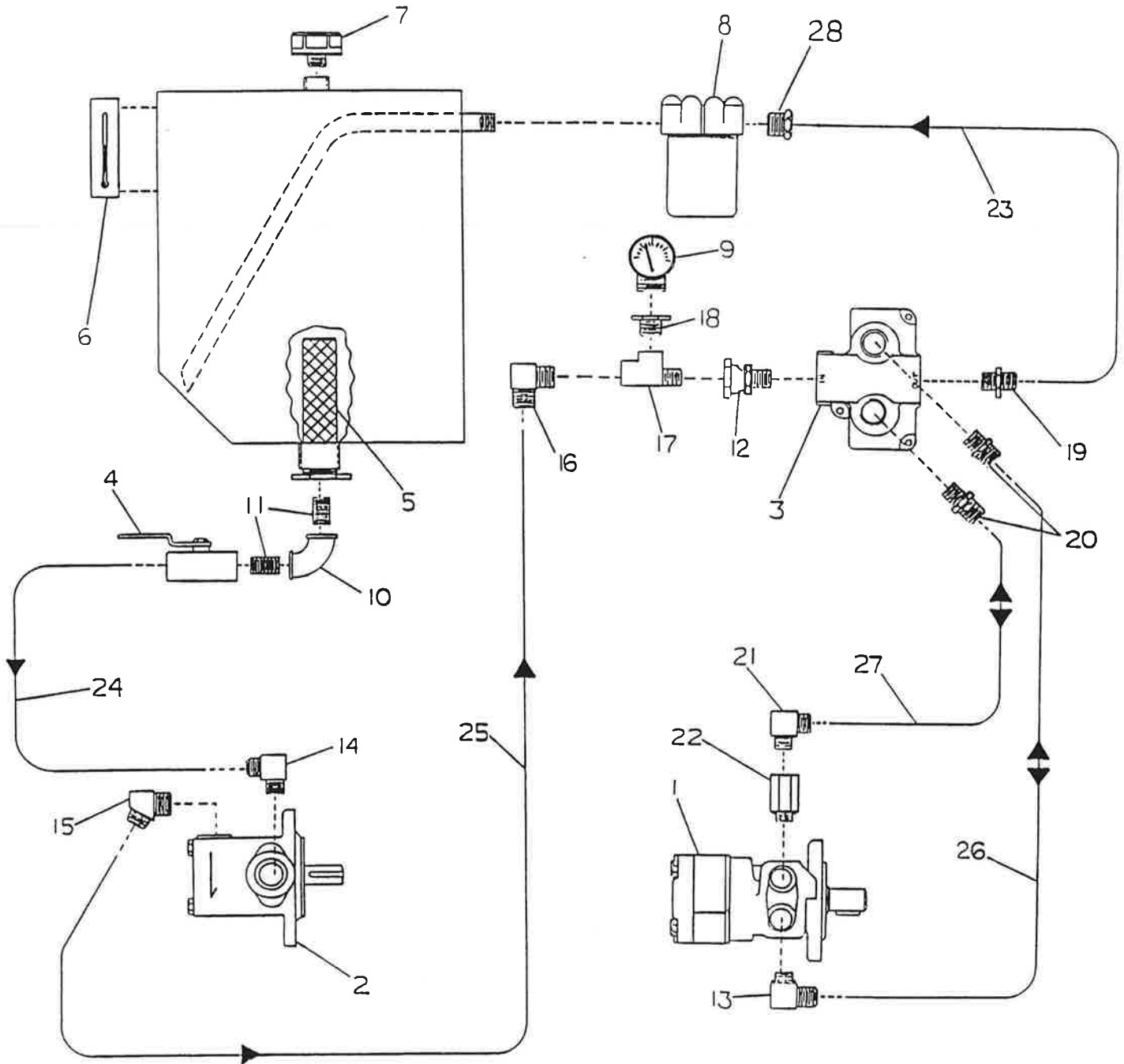


### HYDRAULIC AGITATOR DRIVE

| Ref. No. | Part No. | Description                             | No. Req'd. |
|----------|----------|-----------------------------------------|------------|
| 1        | 080013   | Hydraulic Motor (See page 21 for parts) | 1          |
| 2        | 080343   | Torque Arrestor                         | 1          |
| 2A       | 004630   | Rubber Insert (Not Shown)               | 2          |
| 3        | 023156   | Coupling                                | 1          |
| 4        | 000393B  | Bushing-Motor Shaft                     | 1          |
| 5        | 004635   | Bushing-Agitator Shaft                  | 1          |
| * 6      | 007420   | Bearing and Seal Assembly               | 2          |

\* See page 8 for list of parts

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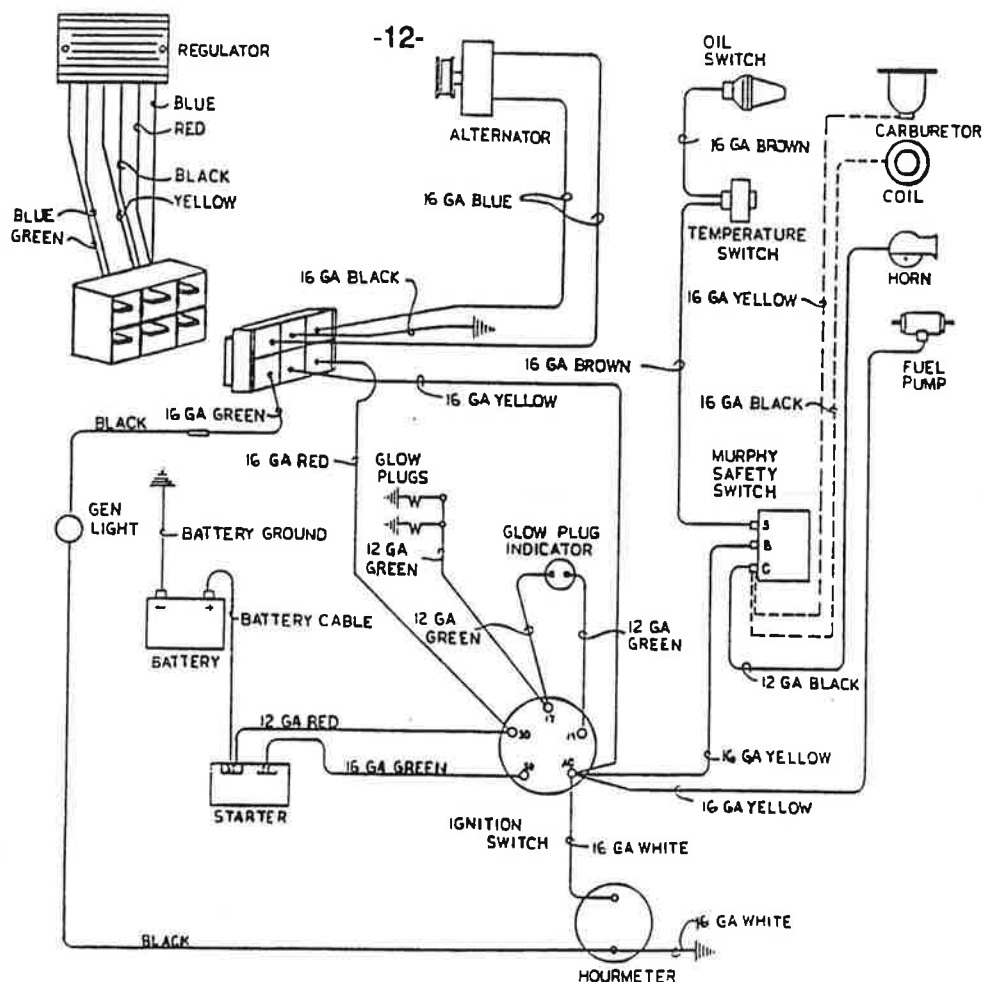


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## HYDRAULIC SYSTEM

| Ref. No. | Part No. | Description                             | No. Req'd. |
|----------|----------|-----------------------------------------|------------|
| 1        | 080013   | Hydraulic Motor (See page 21 for parts) | 1          |
| 2        | 080004A  | Hydraulic Pump (See page 22 for parts)  | 1          |
| 3        | 022850   | Hydraulic Valve (See page 23 for parts) | 1          |
|          | 023379   | Valve Handle                            | 1          |
| 3A       | 080390   | Valve Control Cable (Not Shown)         | 1          |
| 4        | 022372   | Ball Valve                              | 1          |
| 5        | 004618   | Strainer                                | 1          |
| 6        | 080329   | Sight Gauge                             | 1          |
| 7        | 004900   | Filler Breather Cap                     | 1          |
| 8        | 021617   | Filter                                  | 1          |
|          | 021618   | Filter Element                          | 1          |
| 9        | 012044   | Pressure Gauge                          | 1          |
| 10       | 160008   | Elbow                                   | 1          |
| 11       | 160303   | Nipple                                  | 2          |
| 12       | 000668   | Straight Adapter Union                  | 1          |
| 13       | 023621   | Adapter Union-90 degrees - O Ring       | 1          |
| 14       | 011931   | Adapter Union-90 degrees                | 1          |
| 15       | 080383   | Adapter Union-45 degrees                | 1          |
| 16       | 085013   | Adapter Union-90 degrees                | 1          |
| 17       | 022346   | Street Tee                              | 1          |
| 18       | 011936   | Bushing                                 | 1          |
| 19       | 023617   | Adapter Union                           | 1          |
| 20       | 085015   | Adapter Union                           | 2          |
| 21       | 023618   | Adapter Union-90 degrees Long           | 1          |
| 22       | 070408   | Straight Adapter- O Ring                | 1          |
| 23       | 080386   | Return Hose                             | 1          |
| 24       | 080384   | Suction Hose                            | 1          |
| 25       | 080385   | Pressure Hose                           | 1          |
| 26       | 080388   | Motor Hose-Long                         | 1          |
| 27       | 080387   | Motor Hose-Short                        | 1          |
| 28       | 160705   | Bushing                                 | 1          |

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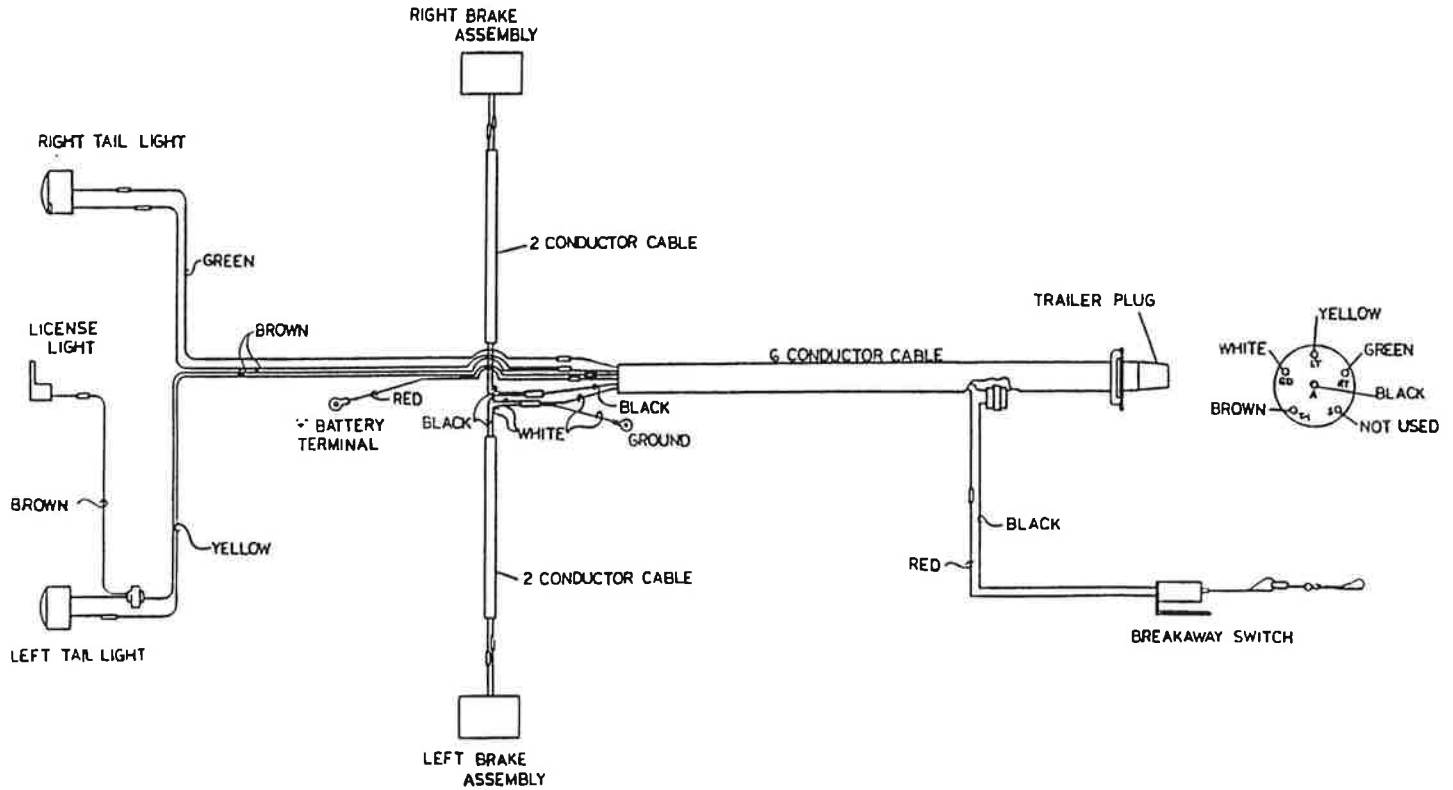


**ENGINE WIRING DIAGRAM**

| Gas            | Part No.      | Description           | No. Req'd. |
|----------------|---------------|-----------------------|------------|
|                | 080393-01     | Wiring Harness-Diesel | 1          |
| 080393-02      |               | Wiring Harness-Gas    | 1          |
| 080355         | 080355        | Control Panel         | 1          |
|                | 006499        | Horn                  | 1          |
| 006245         | 006245        | Oil Light             | 1          |
| 007274         | 007274        | Hourmeter             | 1          |
| 022119         | 080132        | Safety Switch         | 1          |
| 080077         | 080077        | Temperature Switch    | 1          |
| 002256-12      | 002256-12     | Battery - 12 Volt     | 1          |
| 080096         | 080096        | Battery Cable         | 1          |
| 000241         | 000241        | Ground Cable          | 1          |
| KU66711-5513   | KU66711-55131 | Ignition Switch       | 1          |
| 080120         | 080120        | Voltage Regulator     | 1          |
|                | 080122        | Glow Plug Indicator   | 1          |
| 080103         | 080103        | Fuel Pump             | 1          |
| KU15661-6890-0 |               | Ignition Coil         | 1          |
| KU12581-4401-0 |               | Carburetor            | 1          |
|                | KU66711-55140 | Ignition Key          |            |

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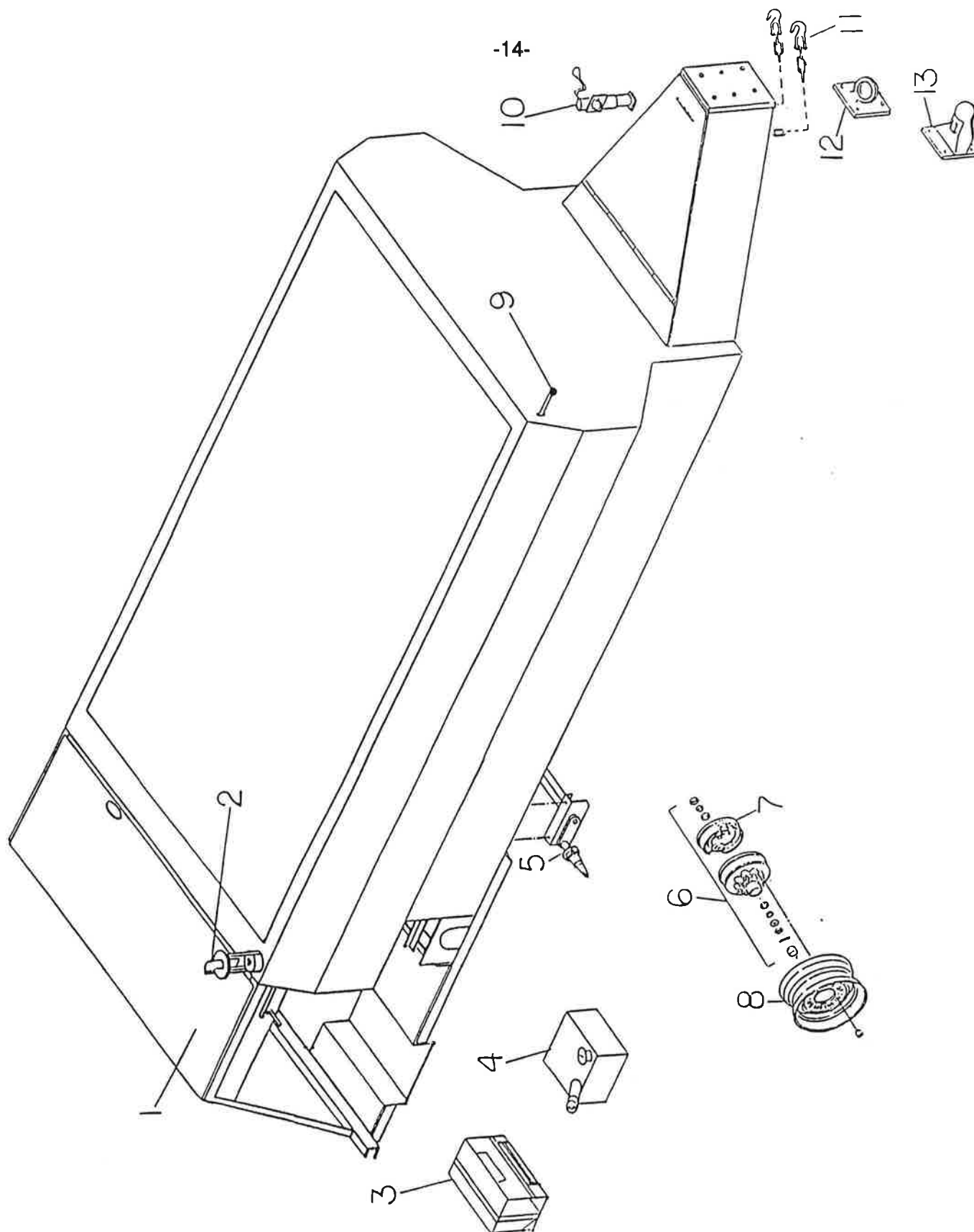




## TRAILER WIRING DIAGRAM

| Part No. | Description                          | No. Req'd. |
|----------|--------------------------------------|------------|
| 080401   | Trailer Wiring Harness               | 1          |
| 023424   | Breakaway Switch                     | 1          |
| 005016   | "S" Hook                             | 1          |
| 005017   | Snap Hook                            | 1          |
| 190001   | Chain                                | 28"        |
| 060069   | Trailer Plug                         | 1          |
| 005137   | Taillight Assembly - Left Hand Side  | 1          |
| 005138   | Taillight Assembly - Right Hand Side | 1          |
| 005236   | License Light                        | 1          |
| 004720   | License Bracket                      | 1          |

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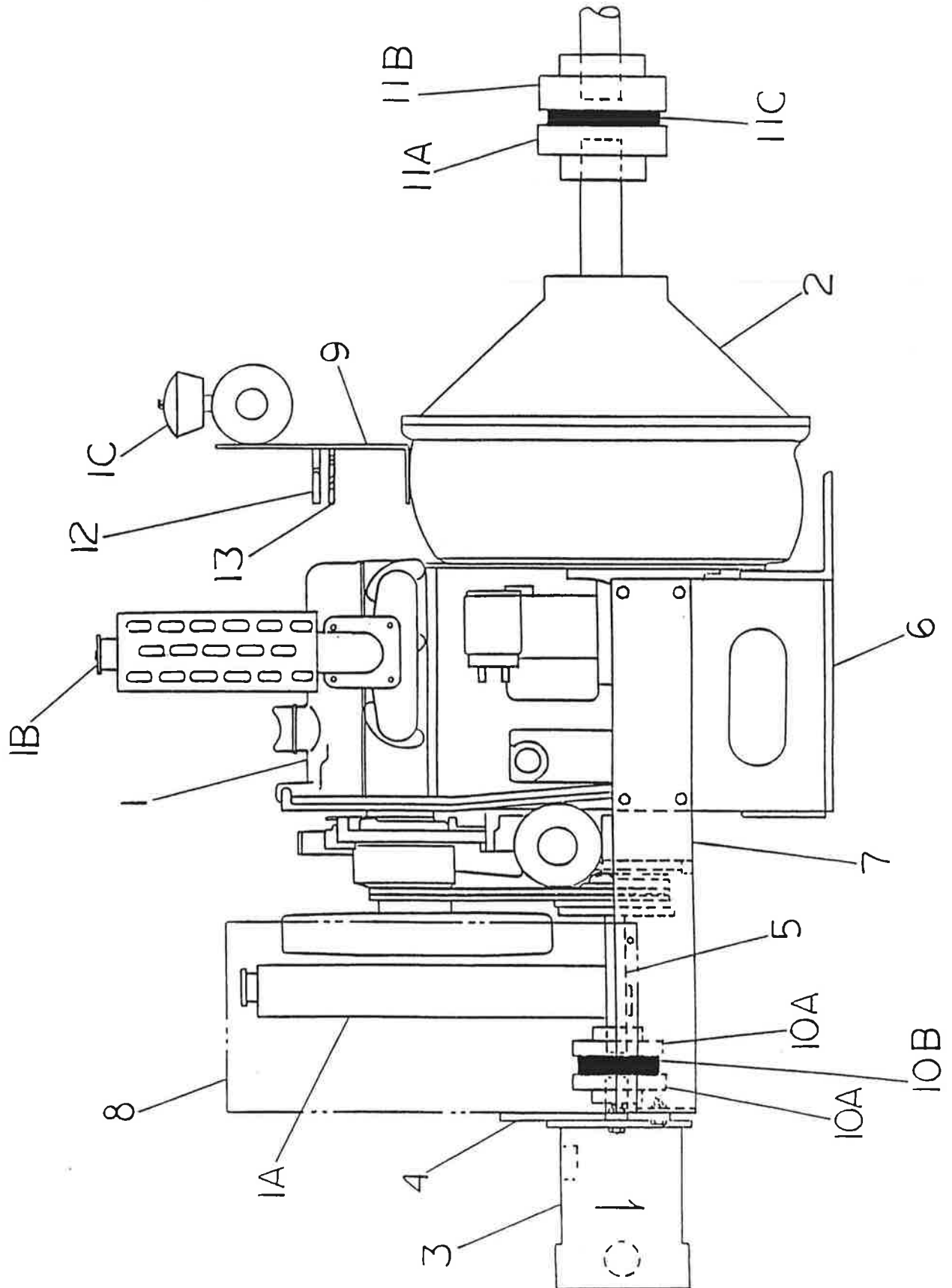


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## MISCELLANEOUS PARTS

| Ref. No. | Part No.  | Description                           | No. Req'd. |
|----------|-----------|---------------------------------------|------------|
| 1        | 080338    | Top Cover                             | 1          |
| 2        | 080287    | Fill Port                             | 1          |
|          | 005280    | Filler Plug                           | 1          |
| 3        | 080223    | Battery Box                           | 1          |
| 3A       | 002256-12 | Battery-12 Volt (Not Shown)           | 1          |
| 4        | 080360    | Fuel Tank                             | 1          |
| 4A       | 007914    | Gas Cap (Not Shown)                   | 1          |
| 4B       | 031275    | Level Gauge (Not Shown)               | 1          |
| 4C       | 080363-07 | Tie Down Strap (Not Shown)            | 1          |
| 5        | 080328    | Axle w/Spindle, Hub & Drum, Brakes    | 1          |
| 6        | 100232    | Hub and Drum Assembly                 | 1          |
|          | WL10-1    | Grease Seal                           | 1 per      |
|          | WL25580   | Inner Bearing                         | 1 per      |
|          | WL25520   | Inner Cup                             | 1 per      |
|          | WL14276   | Outer Cup                             | 1 per      |
|          | WL14125A  | Outer Bearing                         | 1 per      |
|          | WL605     | Grease Cap                            | 1 per      |
|          | WL6-80    | Wheel Nut                             | 8 per      |
|          | WL7-122   | Stud                                  | 8 per      |
|          | WL15-57   | Washer                                | 1 per      |
|          | WL6-1     | Nut                                   | 1 per      |
| 7        | WL23-180  | Left Brake Assembly                   | 1          |
|          | WL23-181  | Right Brake Assembly                  | 1          |
| 8        | 005057    | Wheel                                 | 2          |
|          | 005060    | Tire (Not Shown)                      | 2          |
|          | 004644    | Valve Stem                            | 2          |
| 9        | 080375    | Agitator Control Rod                  | 1          |
| 9A       | 080289    | Black Knob (Not Shown)                | 1          |
| 9B       | 080370-06 | Agitator Control Linkage (Not Shown)  | 1          |
| 9C       | 080218    | Agitator Control Rod Pipe (Not Shown) | 1          |
| 9D       | 005178    | O Ring (Not Shown)                    | 1          |
| 10       | 005234    | Jack                                  | 1          |
| 11       | 190033    | Safety Chain (3' lengths)             | 2          |
|          | 023485    | Grab Hook                             | 2          |
|          | 004888    | Chain Connector                       | 2          |
| 12       | 080043    | Tow Ring (Optional)                   | 1          |
| 13       | 005134    | Ball Coupler                          | 1          |
| 13A      | 005135    | Ball                                  | 1          |

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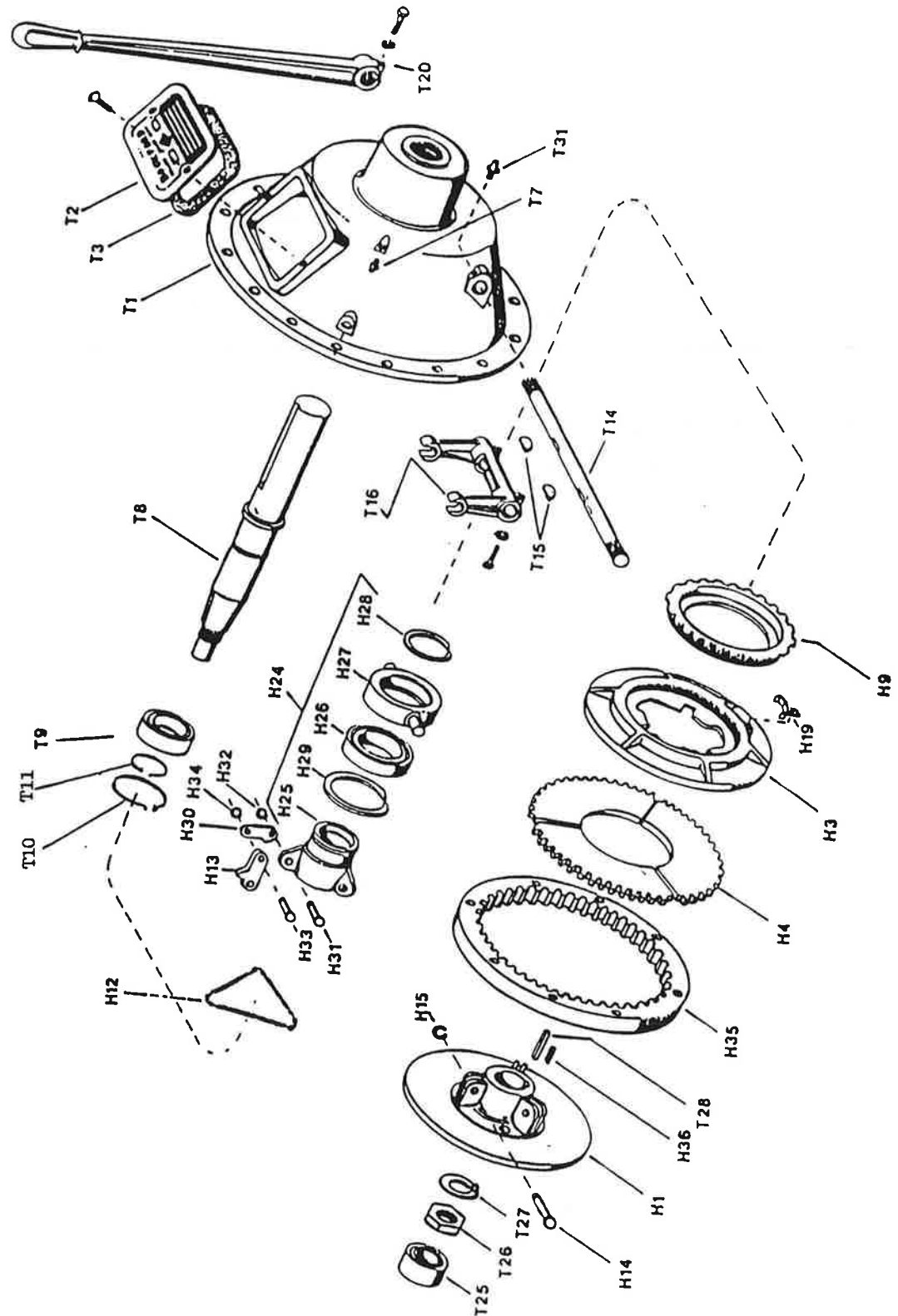
## POWER SECTION

| Ref. No. | Part No.       |           | Description                  | No. Req'd. |
|----------|----------------|-----------|------------------------------|------------|
|          | Gas            | Diesel    |                              |            |
| 1        | 080319         | 080321    | Engine Assembly              | 1          |
| 1A       | 080144         | 080144    | Radiator Assembly            | 1          |
| 1B       | 080145         | 080145    | Muffler Assembly             | 1          |
| 1C       | 080143         | 080143    | Air Cleaner Assembly         | 1          |
| 2        | 080330         | 080330    | Clutch Assembly              | 1          |
| 3        | 080004A        | 080004A   | Hydraulic Pump (See page 22) | 1          |
| 4        | 080340-02      | 080340-02 | Hydraulic Pump Mount         | 1          |
| 5        | 080082-02      | 080082-02 | Shaft Adapter                | 1          |
| 6        | 080346-01      | 080346-01 | Engine Mount                 | 1          |
| 7        | 080346-02      | 080346-02 | Radiator Mount               | 1          |
| 8        | 080357         | 080357    | Radiator Cover               | 1          |
| 8A       | 080364-13      | 080364-13 | Spacer (Not Shown)           | 2          |
| 9        | 080340-03      | 080340-03 | Air Cleaner Mount            | 1          |
| 10A      | 080323         | 080323    | Coupling Half                | 2          |
| 10B      | 080324         | 080324    | Coupling Insert              | 1          |
| 11A      | 080326         | 080326    | Engine Coupling Half         | 1          |
| 11B      | 080325         | 080325    | Pump Coupling Half           | 1          |
| 11C      | 080327         | 080327    | Coupling Insert              | 1          |
| 12       |                | 006499    | Horn                         | 1          |
| 13       | KU15661-6890-0 |           | Coil                         | 1          |

## NOT ILLUSTRATED

|           |           |                             |   |
|-----------|-----------|-----------------------------|---|
| 080396    | 080391    | Throttle Cable              | 1 |
|           | 004983    | Clamp & Shim                | 1 |
|           | 080090    | Pivot                       | 1 |
|           | 080370-12 | Throttle Cable Mount        | 1 |
|           | 080392    | Engine Kill Cable           | 1 |
|           | 004983    | Clamp & Shim                | 1 |
|           | 080090    | Pivot                       | 1 |
|           | 080370-08 | Kill Lever Arm              | 1 |
|           | 080370-13 | Kill Cable Mount            | 1 |
| 080397    |           | Choke Cable                 | 1 |
| 080370-10 | 080370-10 | Fuel Pump Mount             | 1 |
| 080370-11 | 080370-11 | Air Cleaner Connecting Tube | 1 |
| 100306    | 100306    | Clutch Lever Assembly       | 1 |
| 080353    | 080353    | Coupling Guard              | 1 |

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SERIAL NUMBER OF MACHINE**

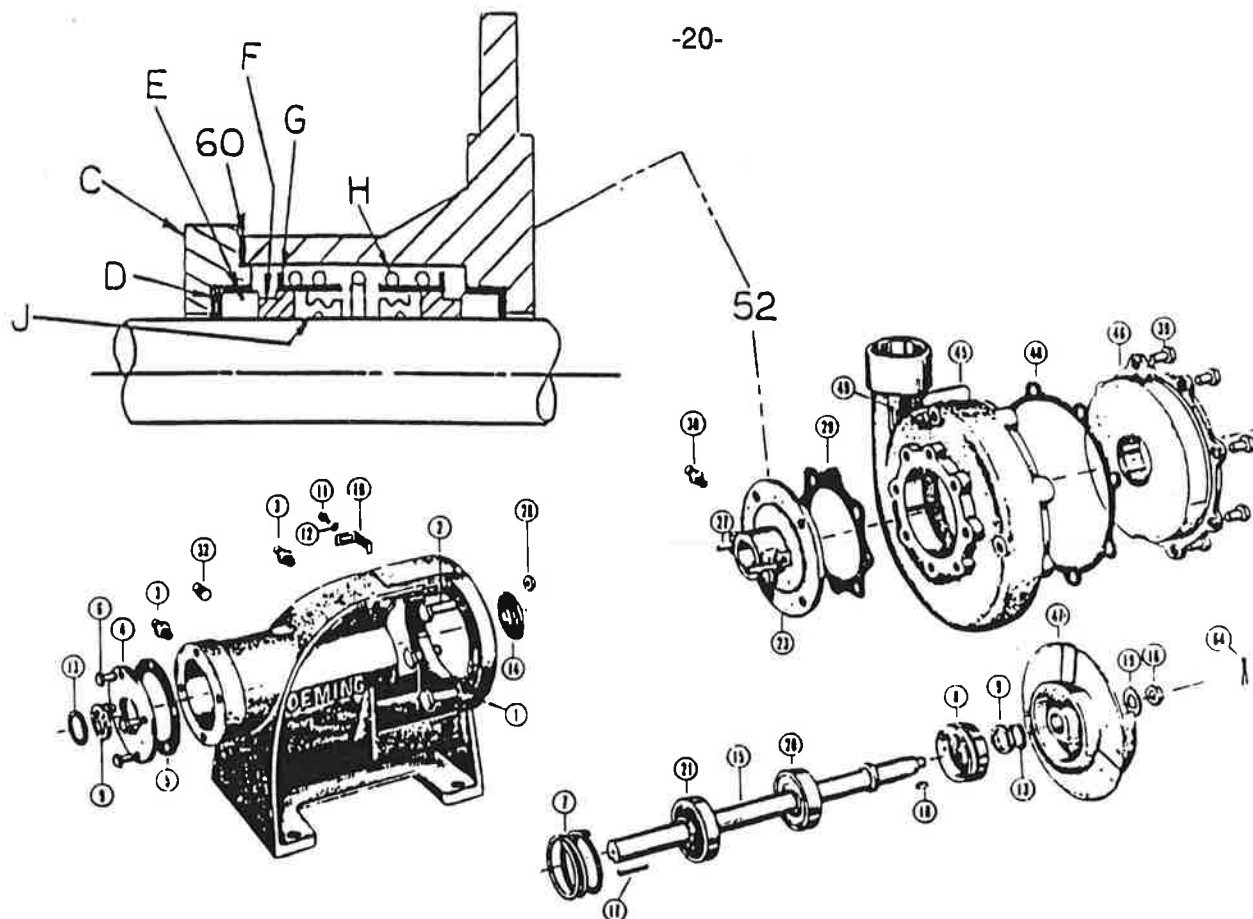
## POWER TAKE-OFF ASSEMBLY

| Ref. No. | Part No. | Description                          | No. Req'd. |
|----------|----------|--------------------------------------|------------|
| H's      | 100334   | Clutch Assembly                      | 1          |
| H1       | 100335   | Body, Clutch                         | 1          |
| H3       | 100336   | Plate, Pressure                      | 1          |
| H4       | 100337   | Facing, Clutch (3 segments)          | 1          |
| H9       | 100210   | Ring, Adjusting                      | 1          |
| H12      | 100211   | Spring Lever                         | 1          |
| H13      | 100212   | Lever                                | 3          |
| H14      | 100213   | Pin, Pivot Lever                     | 3          |
| H15      | 100008   | Ring, Retaining                      | 3          |
| H19      | 100214   | Lock, Adjusting                      | 1          |
| H24      | 100327   | Release, Sleeve and Bearing Assembly | 1          |
| H25      | 100328   | Sleeve Release                       | 1          |
| H26      | 100330   | Bearing, Release                     | 1          |
| H27      | 100329   | Carrier, Bearing                     | 1          |
| H28      | 100332   | Snap Ring, Internal                  | 1          |
| H29      | 100331   | Snap Ring, External                  | 1          |
| H30      | 100215   | Link, Connecting                     | 6          |
| H31 & 3  | 100216   | Pins, Link                           | 6          |
| H32 & 4  | 100217   | Ring, Retaining                      | 6          |
| H35      | 100338   | Ring, Driving                        | 1          |
| H36      | 100219   | Spring, Separator                    | 3          |
| T1       | 100339   | Housing, Clutch                      | 1          |
| T2       | 100222   | Plate, Instruction                   | 1          |
| T3       | 100054   | Gasket, Cover                        | 1          |
| T7       | 100043   | Fitting, Lubrication                 | 1          |
| T8       | 100223   | Shaft, Drive                         | 1          |
| T9       | 100060   | Bearing                              | 1          |
| T10      | 100055   | Snap Ring, External                  | 1          |
| T11      | 100059   | Snap Ring, Internal                  | 1          |
| T14      | 100041   | Shaft Yoke                           | 1          |
| T15      | 100042   | Key, Woodruff                        | 2          |
| T16      | 100073   | Yoke, Clutch                         | 1          |
| T20      | 100306   | Lever, Shifting                      | 1          |
| T25      | 005151   | Bearing, Pilot                       | 1          |
| T26      | 100045   | Nut, Drive Shaft                     | 1          |
| T27      | 100047   | Lock Washer                          | 1          |
| T28      | 100056   | Key, Clutch                          | 1          |
| T31      | 100224   | Lube Fitting, Yoke Shaft             | 2          |

080330

Power Take-Off Assembly (4-34192)

**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**



## SLURRY PUMP

### ASSEMBLY Part No. 80331

| Ref. No. | Part No. | Description                                       | No. Req'd. | Ref. No. | Part No. | Description                 | No. Req'd. |
|----------|----------|---------------------------------------------------|------------|----------|----------|-----------------------------|------------|
| 1        | 80421    | Support Head                                      | 1          | *21      | 80420    | Ball Bearing (Coupling End) | 1          |
| 2        |          | Cap Screws (Casing)                               | 4          | 27       |          | Bolts (Seal Gland)          | 2          |
| 3        | 80432    | Grease Fittings                                   | 2          | 28       |          | Nuts (Seal Gland)           | 2          |
| 4        | 80424    | Bearing Cover                                     | 1          | *29      | 80431    | Gasket (Seal Head)          | 1          |
| *5       | 80436    | Gasket (Bearing Cover)                            | 1          | 32       |          | Pipe Plug (Support Frame)   | 1          |
| 6        |          | Cap Screws (Bearing Cover)                        | 4          | 39       |          | Cap Screws (Suction Head)   | 8          |
| 7        | 80437    | Bearing Adjusting Spring                          | 1          | 45       | 80415    | Casing                      | 1          |
| 8        | 80428    | Bearing Adjusting Nut                             | 1          | 46       | 80418    | Suction Head (3" NPT)       | 1          |
| *9       | 80427    | Felt Ring                                         | 2          | 47       | 80416    | Impeller                    | 2          |
| 10       | 80430    | Adjusting Nut Clip                                | 1          | *48      | 80429    | Gasket (Suction Head)       | 1          |
| 11       |          | Cap Screws (Adjusting Nut Clip)                   | 1          | 49       |          | Pipe Plugs (Liquid End)     | 2          |
| 12       |          | Lock Washer (Adjusting Nut Clip)                  | 1          | 52       | 80419    | Seal Head                   | 1          |
| 13       | 80433    | Clamping Ring                                     | 2          | 60       | 80439    | Gasket (Seal Head)          | 1          |
| 14       | 80425    | Slinger                                           | 1          | 64       | 80434    | Cotter Pin                  | 1          |
| 15       | 80417    | Shaft Assembly (Includes items 16, 18, 19 and 64) | 1          | C        | 80438    | Seal Gland                  | 1          |
| 16       | 80422    | Castellated Nut                                   | 1          | D        |          | Seat Gasket                 | 2          |
| 17       | 80426    | Shaft Key, Square                                 | 1          | E        |          | Floating Sea                | 2          |
| 18       | 80423    | Impeller Key, Woodruff                            | 1          | *F       | 80407    | Seal Face, Carbon           | 2          |
| 19       | 80435    | Impeller Washer                                   | 1          | G        |          | Retainer                    | 2          |
| *20      | 80420    | Ball Bearing (Seal Head End)                      | 1          | H        |          | Spring                      | 1          |

\* Suggested Spare Parts

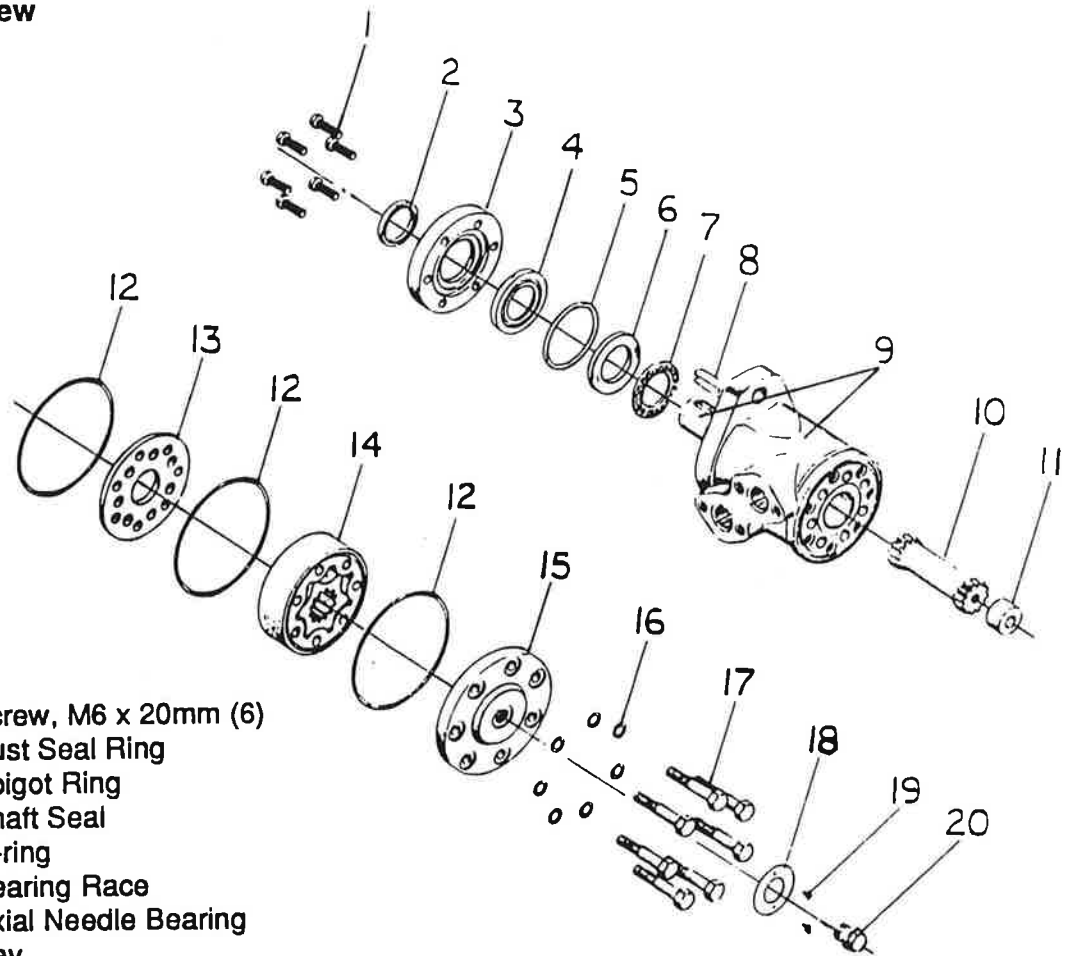
**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**



# DANFOSS

## SPARE PARTS Hydraulic motor OMP

Exploded view  
OMP

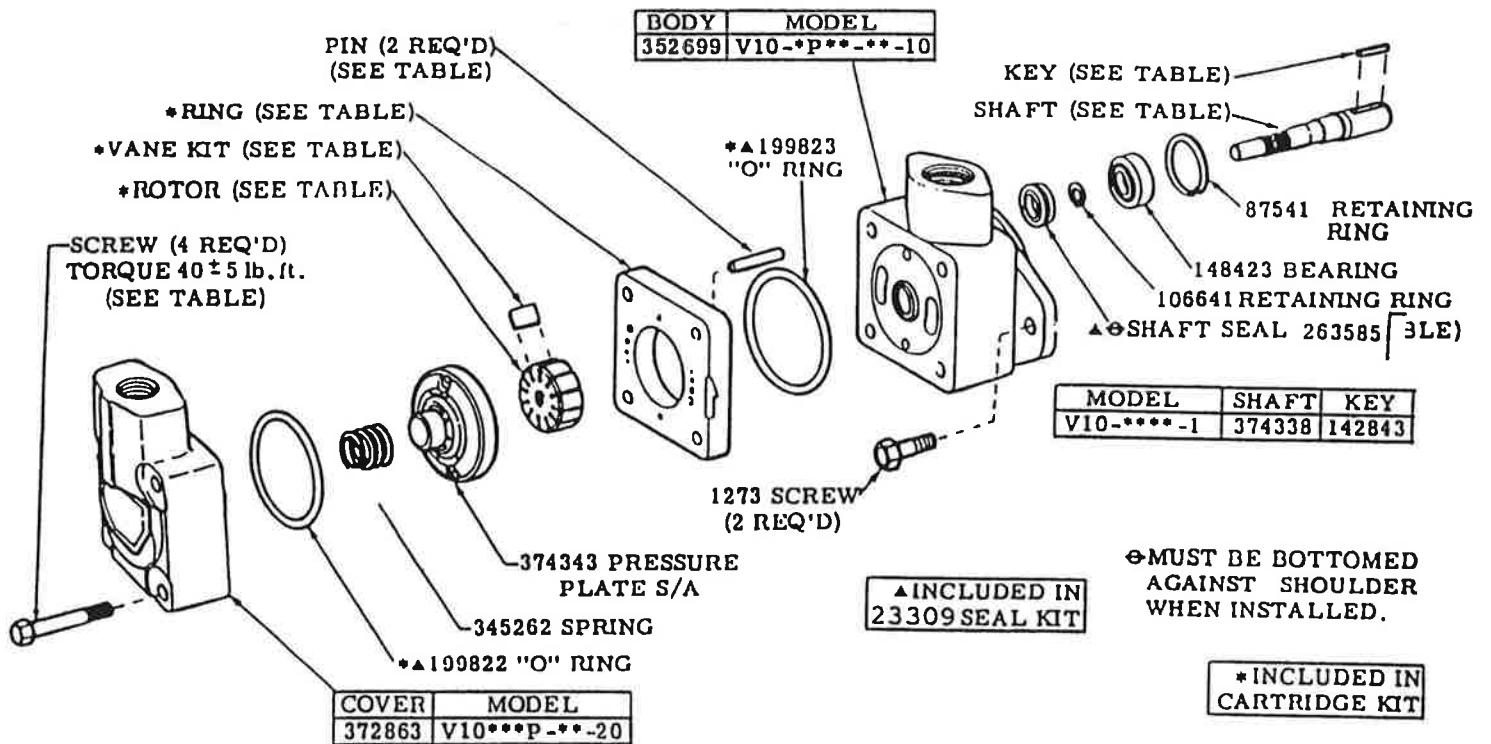


- 1. Screw, M6 x 20mm (6)
- \* 2. Dust Seal Ring
- 3. Spigot Ring
- \* 4. Shaft Seal
- \* 5. O-ring
- 6. Bearing Race
- 7. Axial Needle Bearing
- 8. Key
- 9. Housing and Output Shaft
- 10. Cardan Shaft
- 11. Spacer
- \* 12. O-ring (3)
- 13. Distributor Plate
- 14. Gear Wheel Set
- 15. End Cover
- \* 16. Washer (7)
- 17. Screw, M8 x 55mm
- 18. Nameplate
- 19. Drive Screw
- 20. Drain Plug w/O-ring

\* Included in replacement Seal Kit, Part No. 85091

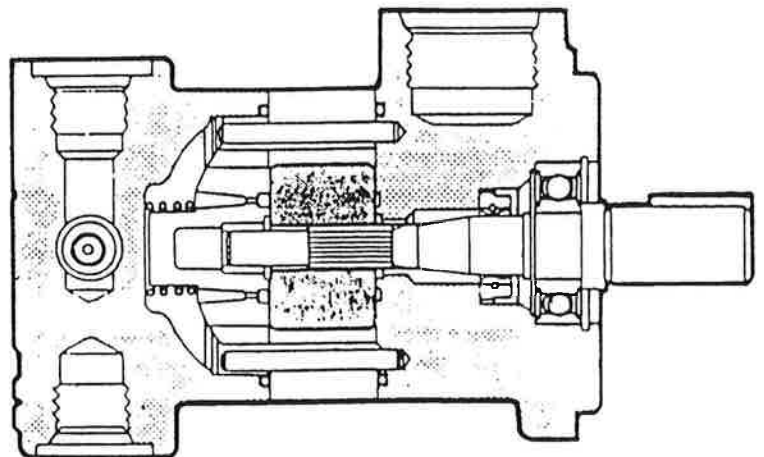
**WARNING: USE THIS DRAWING FOR PARTS INFORMATION ONLY.**

| MODEL          | * ROTOR | * VANE KIT<br>(12 VANES) | * RING | PIN    | SCREW | CART.<br>KIT |
|----------------|---------|--------------------------|--------|--------|-------|--------------|
| V10-**1*-.***0 | 317681  | 923499                   | 317674 | 231042 | 11156 | 923471       |
| V10-**2*-.***0 |         |                          | 317675 |        |       | 923470       |
| V10-**3*-.***0 |         |                          | 317676 |        |       | 923496       |
| V10-**4*-.***0 | 351247  | 923500                   | 317677 | 2456   | 1278  | 923469       |
| V10-**5*-.***0 |         |                          | 317678 |        |       | 923468       |
| V10-**6*-.***0 | 357286  | 923501                   | 355641 | 351963 |       | 923497       |
| V10-**7*-.***0 |         |                          | 331813 |        |       | 923498       |



## SERVICE PARTS INFORMATION

V10 SERIES - 20 DESIGN



## SDCF SERIES VALVE

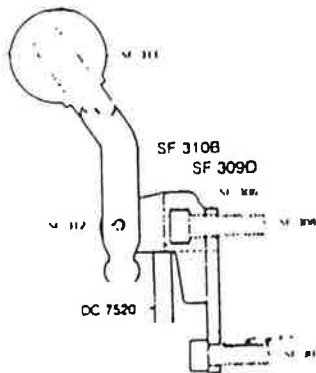


figure 1

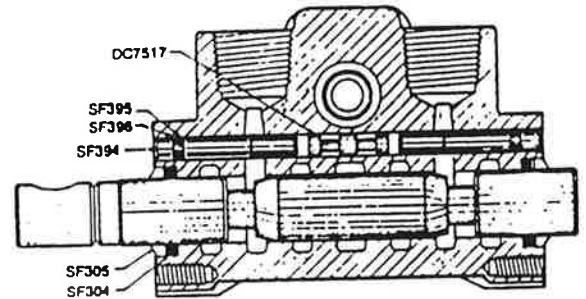


figure 2

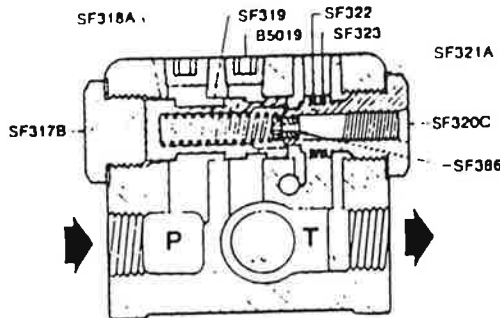
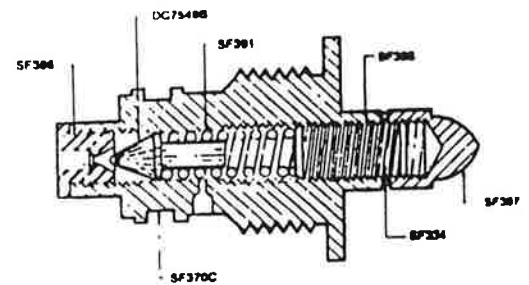


figure 3

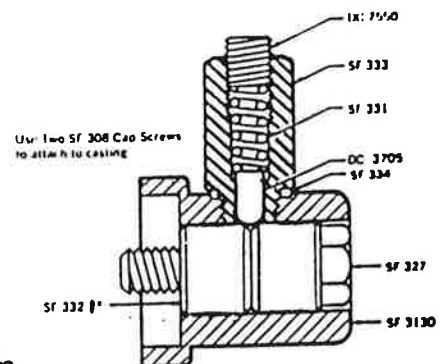


Relief

figure 4

### PARTS LIST

|         |                              |         |                             |
|---------|------------------------------|---------|-----------------------------|
| B5019   | Pipe Plug 1/4" NPT           | SF318A  | Metering Spool              |
| DC3705  | Detent Plunger               | SF319   | Metering Spring             |
| DC7517A | Shuttle Spool                | SF320C  | Cartridge                   |
| DC7520  | Roll Pin 3/16 x 1 1/2        | SF321A  | Washer                      |
| DC7548B | Poppet                       | SF322   | "O" Ring - 016              |
| DC7550  | Set Screw 5/16-24            | SF323   | Back Up Ring - 016          |
| SF304   | Seal-210                     | SF327   | HHCS 5/16 18 x 1 1/2        |
| SF305   | Wiper                        | SF331   | Spring                      |
| SF306   | Seal Retainer                | SF332-1 | Friction Positioning Sleeve |
| SF307   | Cap Screw 1/4" 20 x 5/8" HAS | SF333B  | Detent Housing -016         |
| SF308   | Cap Screw 1/4" 20 x 3/4" HAS | SF334   | Washer                      |
| SF309D  | Handle Bracket               | SF370C  | Relief Cartridge            |
| SF310B  | Handle                       | SF386   | Seat                        |
| SF311   | Knob                         | SF387   | Acorn Nut                   |
| SF312   | Roll Pin 1/8" x 1 3/8"       | SF388   | Set Screw                   |
| SF312A  | Washer                       | SF391   | Spring                      |
| SF313-D | Detent End Cap               | SF394   | Shuttle Stop                |
| SF317B  | Plug                         | SF395   | "O" Ring                    |
|         |                              | SF396   | Backup                      |
|         |                              | 23120   | Seal Kit                    |

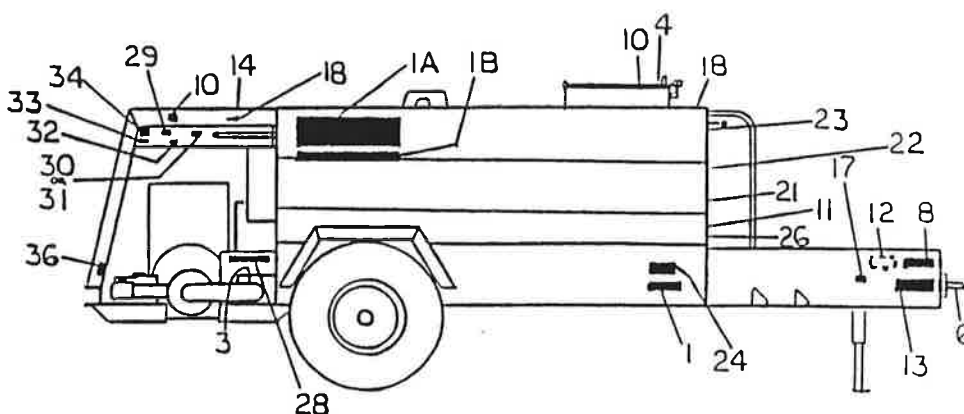
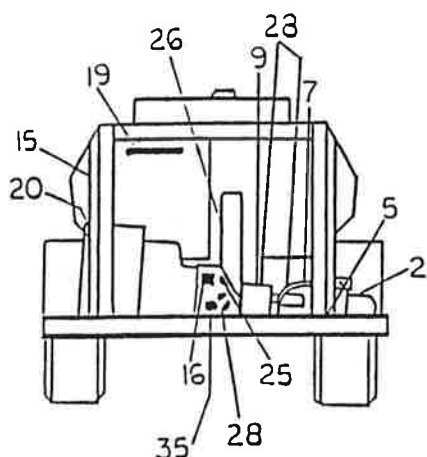


Use two SF 308 Cap Screws to attach to casting

NOTE: Use seal retainer, SF 306 between option and main casting.

SDC-F (Friction Detent Kit)

## DECALS



| Ref. No. | Part No.     | Description                     | Quantity |        |
|----------|--------------|---------------------------------|----------|--------|
|          |              |                                 | Gas      | Diesel |
| 1        | 011690       | Nameplate                       | 1        | 1      |
| 1A       | 023174       | "FINN" Decal                    | 2        | 2      |
| 1B       | 011595       | "HydroSeeder" Decal             | 2        | 2      |
| 2        | 005216       | Danger-Do Not Use Remote        | 1        | 1      |
| 3        | 008209       | Danger-Before Loosening Clamps  | 1        | 1      |
| 4        | 008097       | Danger-Before Entering Tank     | 1        | 1      |
| 5        | 011567       | Danger-Do Not Aim Stream        | 1        | 1      |
| 6        | 005022       | Use 2-5/16" Ball Only           | 1        | 1      |
| 7        | 006869       | Seal Lubricator                 | 1        | 1      |
| 8        | 021664       | Do Not Tow Over 35 M.P.H.       | 1        | 1      |
| 9        | 022357       | Turn Off Engine                 | 1        | 1      |
| 10       | 023519       | Wear Eye Protection             | 2        | 2      |
| 11       | 080107       | Always Use Step                 | 1        | 1      |
| 12       | 031227       | Always Inspect Hitch            | 1        | 1      |
| 13       | 031228       | Safety Chain Instructions       | 1        | 1      |
| 14       | 012041       | Operating Instructions          | 1        | 1      |
| 15       | 021665       | Hydraulic System Instructions   | 1        | 1      |
| 16       | 031297       | A New Clutch. . .               | 1        | 1      |
| 17       | 023423       | Breakaway Switch                | 1        | 1      |
| 18       | 008286       | Agitator Control                | 2        | 2      |
| 19       | 023390       | Hydraulic Oil Only              | 1        | 1      |
| 20       | 007429       | Protect Radiator                | 1        | 1      |
| 21       | 005184       | 250 Gallons                     | 1        | 1      |
| 22       | 005185       | 400 Gallons                     | 1        | 1      |
| 23       | 005186       | 500 Gallons                     | 1        | 1      |
| 24       | 011662       | Patent Numbers                  | 1        | 1      |
| 25       | 007351       | Hand Gun Only                   | 1        | 1      |
| 26       | 007230       | Service Daily                   | 2        | 2      |
| 27       | 007231       | Service Weekly                  | 5        | 5      |
| 28       | 023391       | Diesel Fuel Only                | 0        | 1      |
| 29       | 080108-03    | Glow Plug                       | 0        | 1      |
| 30       | 005275       | Engine Kill                     | 0        | 1      |
| 31       | 006870-CHOKE | Choke                           | 1        | 0      |
| 32       | 080108-02    | Throttle                        | 1        | 1      |
| 33       | 006870-GEN   | Gen                             | 1        | 1      |
| 34       | 022082       | Hold 10 Seconds Before Starting | 1        | 1      |
| 35       | 004661       | Clutch                          | 1        | 1      |
| 36       | 012031       | Valve                           | 1        | 1      |

NOTE: Decal Kit contains decals with reference numbers 2 through 36  
080699

## **SPARE PARTS AND REPAIR KITS**

### **SPARE PARTS**

| <b>Part No.</b> | <b>Description</b>                           |
|-----------------|----------------------------------------------|
| 021618          | Filter, Hydraulic Oil                        |
| 006515          | Gasket for 1-1/4" and 1-1/2" Nyglass Coupler |
| 080235          | Gasket for 1" Nyglass Coupler                |
| 005183          | Gasket for 1" Grooved Pipe                   |
| 002439          | Gasket for 3" Grooved Pipe                   |
| 080105          | Pre Fuel Filter                              |
| 080276          | Oil Filter                                   |
| 080277          | Fuel Filter (Diesel Only)                    |
| 080278          | Air Cleaner Element                          |

### **REPAIR KITS**

|        |                                        |
|--------|----------------------------------------|
| 023120 | Seal Kit for Hydraulic Valve (#022850) |
| 080184 | Seal Kit for Hydraulic Motor (#080013) |
| 023309 | Seal Kit for Hydraulic Pump (#080004A) |

**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**

