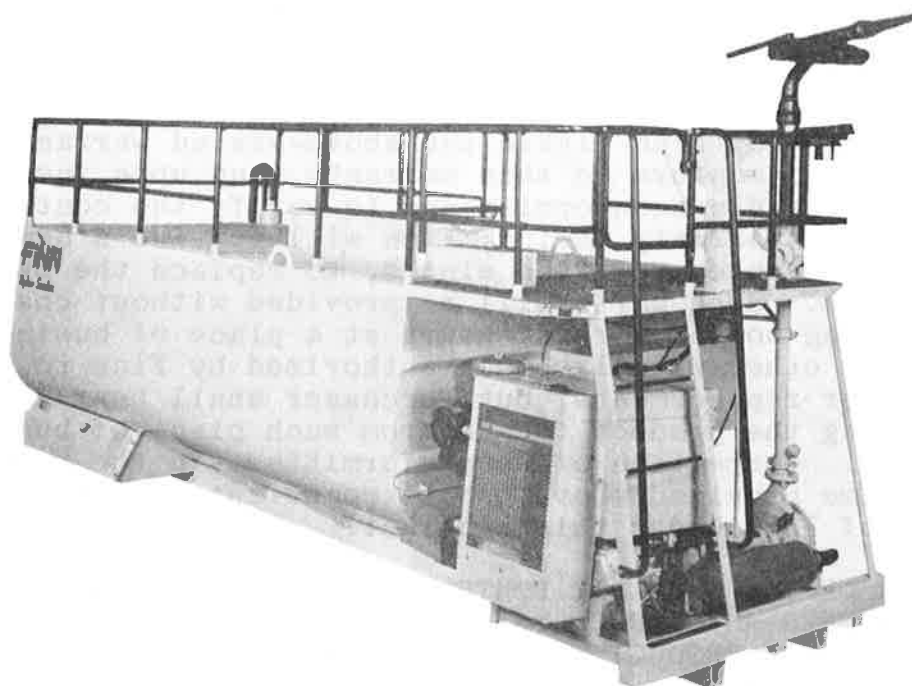


# **FINN**

## **CORPORATION**



# **Hydroseeder**

## **PARTS MANUAL**

T-280

**MODEL NO.** T-330 **SERIAL NO.** RS

## W A R R A N T Y

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 trade 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.

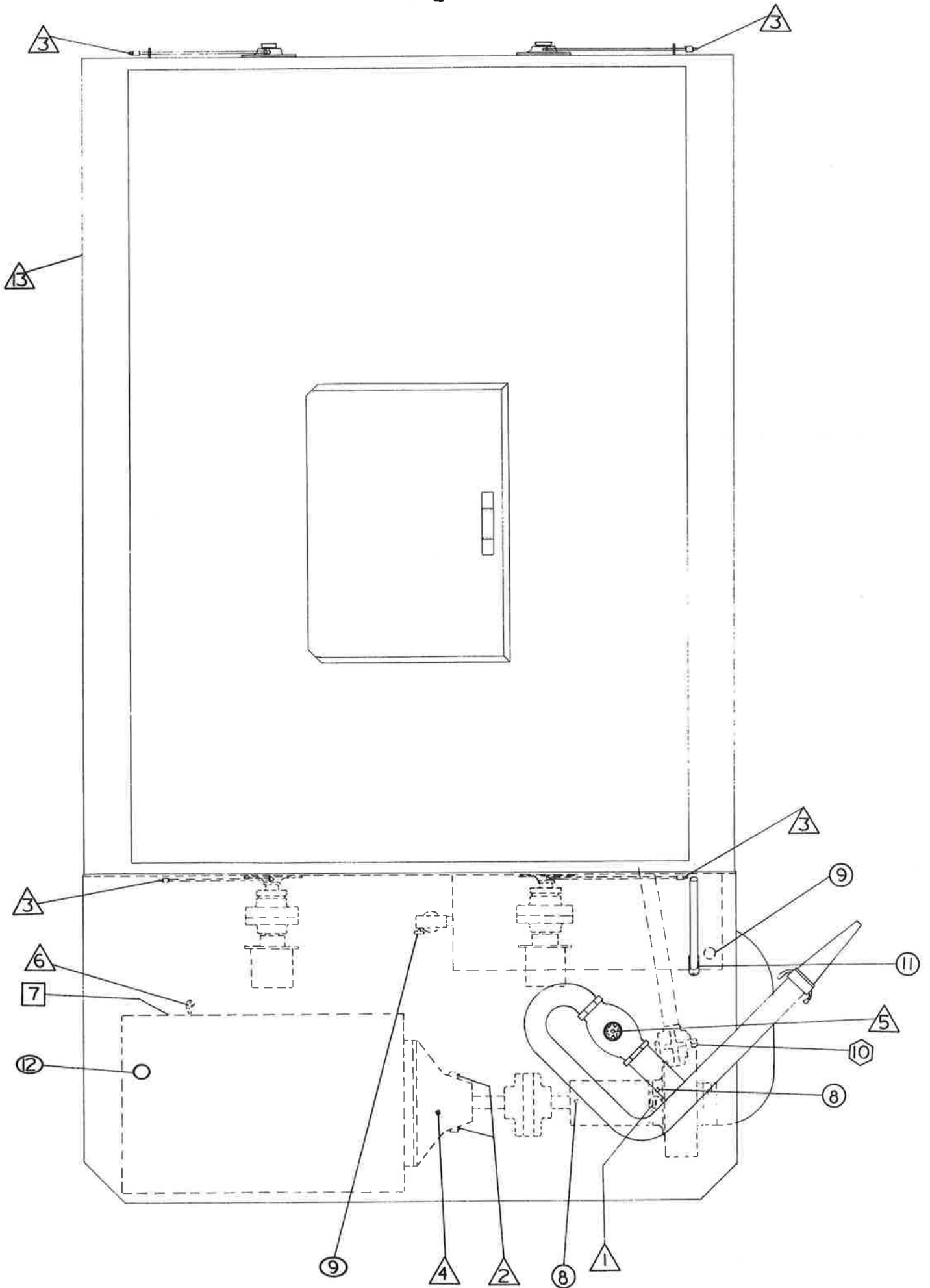
IN NO EVENT SHALL FINN BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES, INCLUDING LOST PROFITS OR LOST COMMERCIAL OPPORTUNITIES, WITH RESPECT TO THE SALE OF THE ABOVE-WARRANTED PRODUCT OR ANYTHING DONE IN CONNECTION THEREWITH, OR FOR PROPERTY DAMAGE SUSTAINED BY A PERSON CLAIMING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

Effective October 1, 1989

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2



## LUBRICATION AND FLUIDS CHART

| Location                                     | Lubricant<br>or Fluid<br>Used | Frequency             | Number<br>Fittings |
|----------------------------------------------|-------------------------------|-----------------------|--------------------|
| 1. Check grease level in pressure lubricator | BL                            | Daily                 | 1                  |
| 2. Check clutch lever bearings               | CL                            | Daily                 | 2                  |
| 3. Grease agitator shaft bearings            | CL                            | Daily                 | 4                  |
| 4. Grease clutch shaft bearings              | CL                            | Daily                 | 1                  |
| 5. Grease discharge swivels                  | CL                            | Daily                 | 2                  |
| 6. Check engine oil level                    | MO                            | Daily                 | 1                  |
| 7. Change engine oil and filter              | MO                            | See engine manual     | 1                  |
| 8. Grease pump bearings                      | BL                            | Weekly                | 2                  |
| 9. Check hydraulic fluid level               | HO                            | Weekly                | 1                  |
| Change hydraulic fluid and filter            | HO                            | Seasonally or 500 hrs | 1                  |
| 10. Grease discharge & recirculation valves  | SL                            | Each Load             | 2                  |
| 11. Grease valve arm lever                   | CL                            | Weekly                | 1                  |
| 12. Change engine coolant                    | AF                            | Seasonally            | 1                  |
| 13. Check fuel tank                          | DF                            | Daily                 | 1                  |

## LUBRICANT OR FLUID USED

|    |                                     |
|----|-------------------------------------|
| BL | Bearing lube (soda base)            |
| CL | Chassis lubricant                   |
| MO | Motor Oil SAE 30 CD/SF              |
| HO | Hydraulic fluid 10W-40 SE Motor Oil |
| SL | Special stick lubricant             |
| AF | 50/50 antifreeze-water mixture      |
| DF | Diesel Fuel                         |

## TIME KEY



DAILY



WEEKLY



SEE ENGINE MANUAL



EACH LOAD



SEASONALLY OR 500 HOURS

## FLUID CAPACITIES

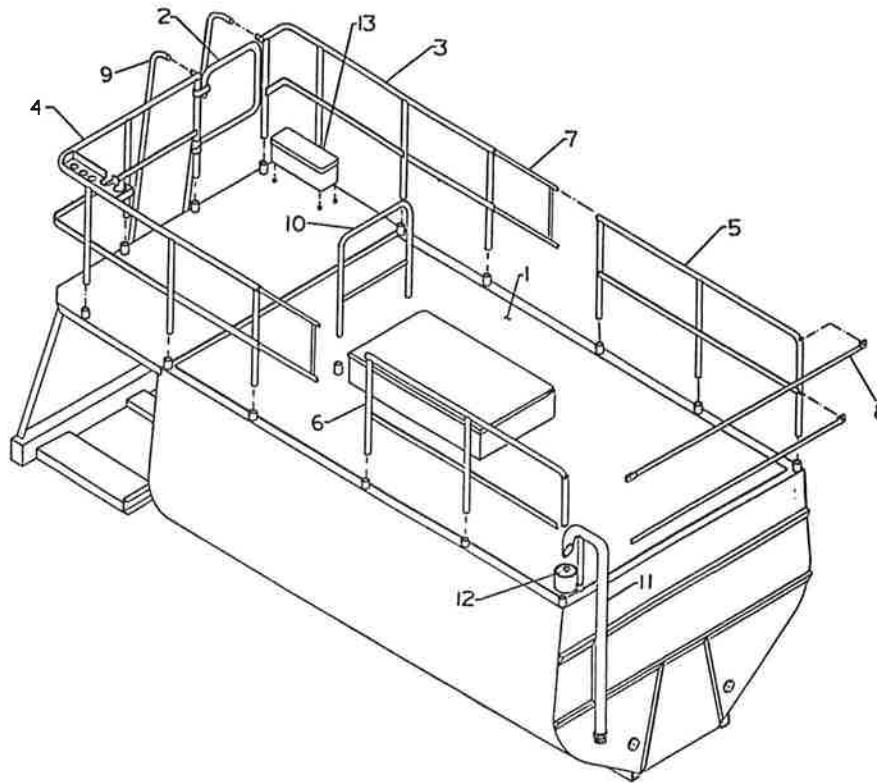
|                                                   |                   |
|---------------------------------------------------|-------------------|
| Diesel fuel                                       | 41 gallons        |
| Engine oil                                        | See engine manual |
| Engine coolant (50/50<br>antifreeze-water mixture | 4 gallons         |
| Hydraulic fluid                                   | 46 gallons        |

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

## TOOL KIT

| Part No. | Description                                     | No. Req'd |
|----------|-------------------------------------------------|-----------|
| 011775   | Nozzle, Long Distance                           | 1         |
| 011703   | Nozzle Assembly, Long Distance                  | 1         |
|          | 001042 Nozzle, Long Distance                    | 1         |
|          | 006512 Gasket, Nozzle                           | 1         |
|          | 002191 Coupling, Male                           | 1         |
|          | 160540 Nipple                                   | 1         |
|          | 160768 Bushing                                  | 1         |
| 011890   | Nozzle Assembly, Wide Ribbon                    | 1         |
|          | 011861 Nozzle, Wide Ribbon                      | 1         |
|          | 002191 Coupling, Male                           | 1         |
|          | 160769 Bushing                                  | 1         |
| 011891   | Nozzle Assembly, Narrow Ribbon                  | 1         |
|          | 011860 Nozzle, Narrow Ribbon                    | 1         |
|          | 002191 Coupling, Male                           | 1         |
|          | 160769 Bushing                                  | 1         |
| 011706   | Nozzle Assembly, Wide Ribbon                    | 1         |
|          | 006604 Nozzle, Wide Ribbon                      | 1         |
|          | 002191 Coupling, Male                           | 1         |
|          | 160766 Bushing                                  | 1         |
| 011707   | Nozzle Assembly, Narrow Ribbon                  | 1         |
|          | 006605 Nozzle, Narrow Ribbon                    | 1         |
|          | 002191 Coupling, Male                           | 1         |
|          | 160766 Bushing                                  | 1         |
| 021375   | Grease Gun                                      | 1         |
|          | 020365 Cartridge, Grease                        | 1         |
| 000698   | Grease, Automatic Lubricator                    | 1         |
| 007469   | Lube Sticks, Discharge and Recirculation Valves | 1         |
| 002190   | Cap w/Gasket-Main Tank Drain                    | 1         |
| 006513   | Gasket, Coupler                                 | 1         |
| 005220   | Impeller Wrench                                 | 1         |
| 008204   | Paint, Touch Up                                 | 1         |
| 008376   | Engine Parts Manual                             | 1         |
| 008375   | Engine Operator's Manual                        | 1         |
|          | Parts Manual                                    | 1         |
|          | Instruction Manual                              | 1         |

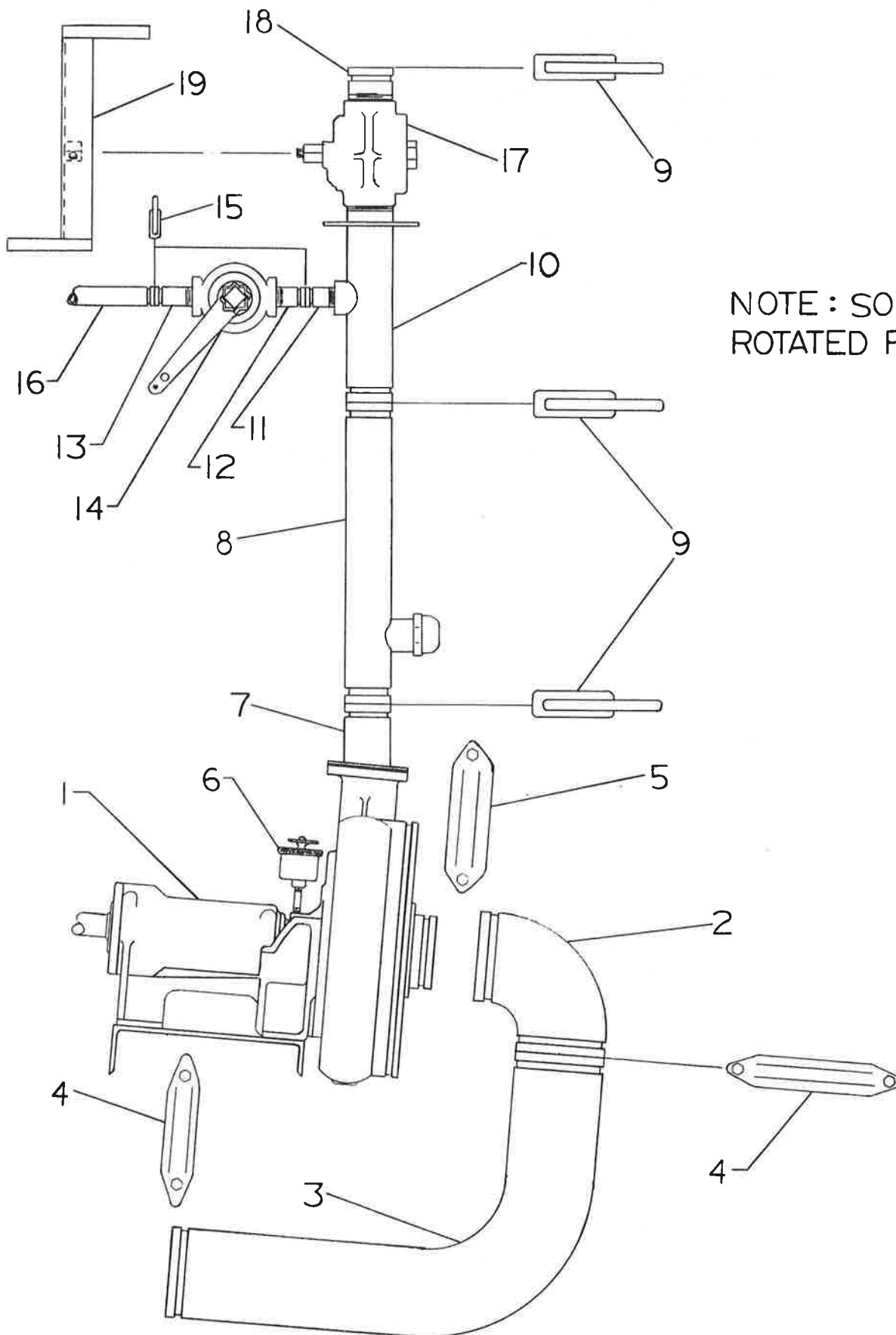
**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**



## TANK TOP PARTS

| Ref. No. | Part No.  |           | Description            | No. Req'd |      |
|----------|-----------|-----------|------------------------|-----------|------|
|          | T280      | T330      |                        | T280      | T330 |
| 1        | 011841    | 011842    | Tank Top               | 1         | 1    |
|          | 190047    | 190047    | Gasket                 | 36'       | 41'  |
| 2        | 008413    | 008413    | Gate Assembly          | 1         | 1    |
|          | 008411-03 | 008411-03 | Top Hinge              | 1         | 1    |
|          | 008411-04 | 008411-04 | Bottom Hinge           | 1         | 1    |
|          | 008412    | 008412    | Gate                   | 1         | 1    |
|          | 012052    | 012052    | Spring, Gate           | 1         | 1    |
| 3        | 008452    | 008452    | Left Rear Guard Rail   | 1         | 1    |
| 4        | 008454    | 008454    | Right Rear Guard Rail  | 1         | 1    |
|          | 012042    | 012042    | Boom Holddown Arm      | 1         | 1    |
|          | 031245    | 031245    | Snapper Pin            | 1         | 1    |
|          | 005161    | 005161    | Nozzle Tie Down Strap  | 1         | 1    |
|          | 008454-02 | 008454-02 | Boom Clamping Strap    | 1         | 1    |
|          | 002258    | 002258    | Boom Locking Handle    | 1         | 1    |
| 5        | 011835-01 | 011840-01 | Left Front Guard Rail  | 1         | 1    |
| 6        | 011835-02 | 011840-02 | Right Front Guard Rail | 1         | 1    |
| 7        | 012050    | 012050    | Guard Rail Slide Gate  | 2         | 2    |
| 8        | 008265    | 008265    | Front Cross Rail       | 2         | 2    |
| 9        | 008267    | 008267    | Hand Rail              | 2         | 2    |
| 10       | 007523    | 007523    | Hatch Guard Rail       | 1         | 1    |
| 11       | 008457    | 008457    | Fill Pipe with Air Gap | 1         | 1    |
|          | 002191    | 002191    | Adapter                | 1         | 1    |
| 12       | 008470    | 008470    | Fill Plug              | 1         | 1    |
| 13       | 011313    | 011313    | Tool Box               | 1         | 1    |
|          | 011398    | 011398    | Mounting Pads          | 4         | 4    |

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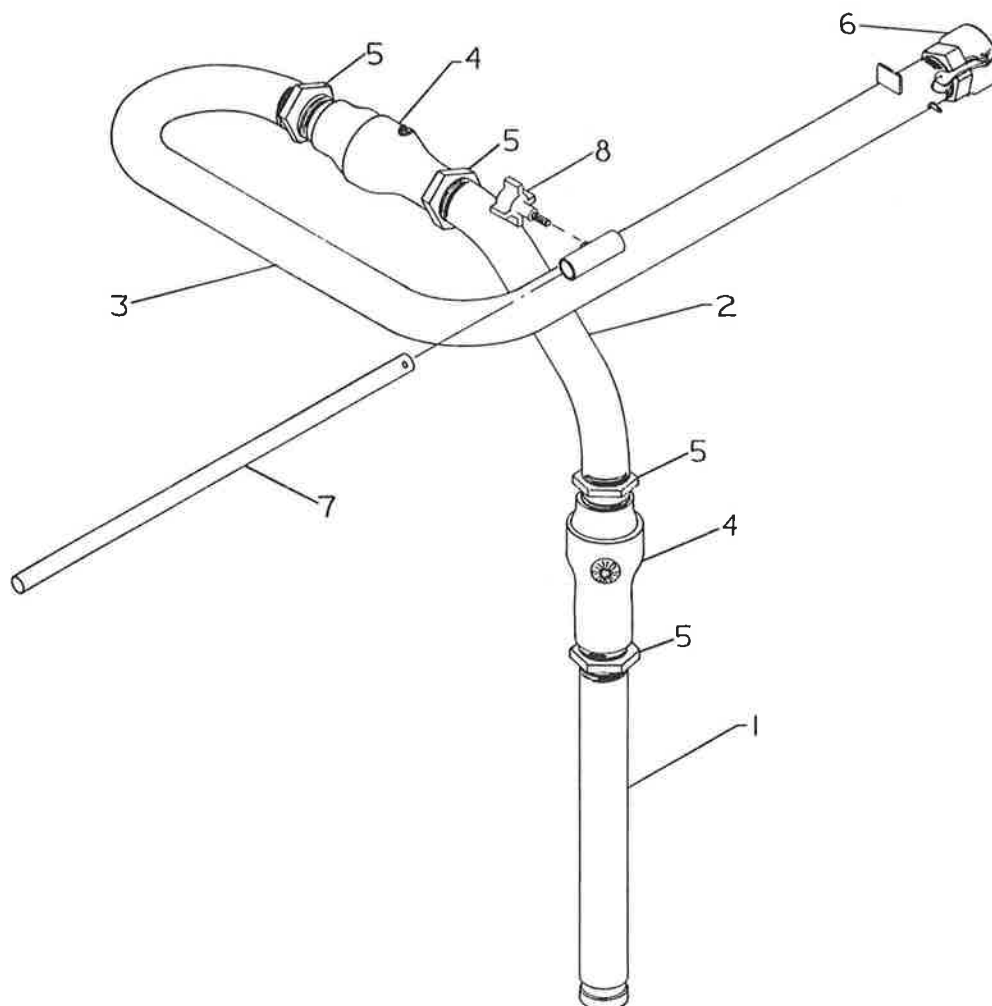
**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**



## PUMP, PIPING, AND DISCHARGE ASSEMBLY

| Ref No. | Part No.  | Description                        | No. Req'd |
|---------|-----------|------------------------------------|-----------|
| 1       | 011756    | Pump Assembly (See pg 9 for parts) | 1         |
|         | X1032     | Bolt, Washer, Locknut              | 4         |
| 2       | 008259    | Suction Elbow                      | 1         |
| 3       | 012035    | Suction Pipe                       | 1         |
| 4       | 011736    | Pipe Clamp                         | 2         |
|         | 011919    | Seal, Pipe Clamp                   | 2         |
| 5       | 011736    | Pipe Clamp                         | 1         |
|         | 011919    | Seal, Pipe Clamp                   | 1         |
| 6       | 002383    | Pump Lubricator                    | 1         |
|         | 008189    | Plunger                            | 1         |
|         | 008190    | Screw, Nut, Follower, Spring       | 1         |
|         | 160160    | Coupling                           | 1         |
|         | 006869    | Decal                              | 1         |
|         | 160389    | Nipple                             | 1         |
| 7       | 011726-08 | Discharge Flange                   | 1         |
|         | 011787    | Gasket                             | 1         |
|         | X1032     | Bolt & Nut                         | 1         |
| 8       | 011726-12 | Lower Discharge Pipe               | 1         |
|         | 160263    | Pipe Cap                           | 1         |
| 9       | 002771    | Pipe Clamp                         | 3         |
|         | 002820    | Seal, Pipe Clamp                   | 3         |
| 10      | 011726-04 | Upper Discharge Pipe               | 1         |
| 11      | 011727-09 | Recirculation Nozzle               | 1         |
| 12      | 011727-10 | Valve Inlet Nozzle                 | 1         |
| 13      | 011727-11 | Valve Outlet Nozzle                | 1         |
| 14      | 011776    | Recirculation Valve                | 1         |
|         | 011909    | Handle                             | 1         |
|         | 004962    | Lube Screw                         | 1         |
|         | 011950    | Gasket                             | 1         |
|         | 011951    | Spring                             | 1         |
| 15      | 006721    | Pipe Clamp                         | 2         |
|         | 006722    | Seal, Pipe Clamp                   | 2         |
| 16      | 008456-05 | Recirculation Pipe                 | 1         |
|         | 160038    | Direction Elbow                    | 1         |
| 17      | 011777    | Discharge Valve                    | 1         |
|         | 004962    | Lube Screw                         | 1         |
|         | 011952    | Gasket                             | 1         |
|         | 011953    | Spring                             | 1         |
| 18      | 011882    | Discharge to Boom Connector        | 1         |
| 19      | 011822    | Valve Control Foot Pedal           | 1         |
|         | Z0612SCP  | Set Screw                          | 2         |

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

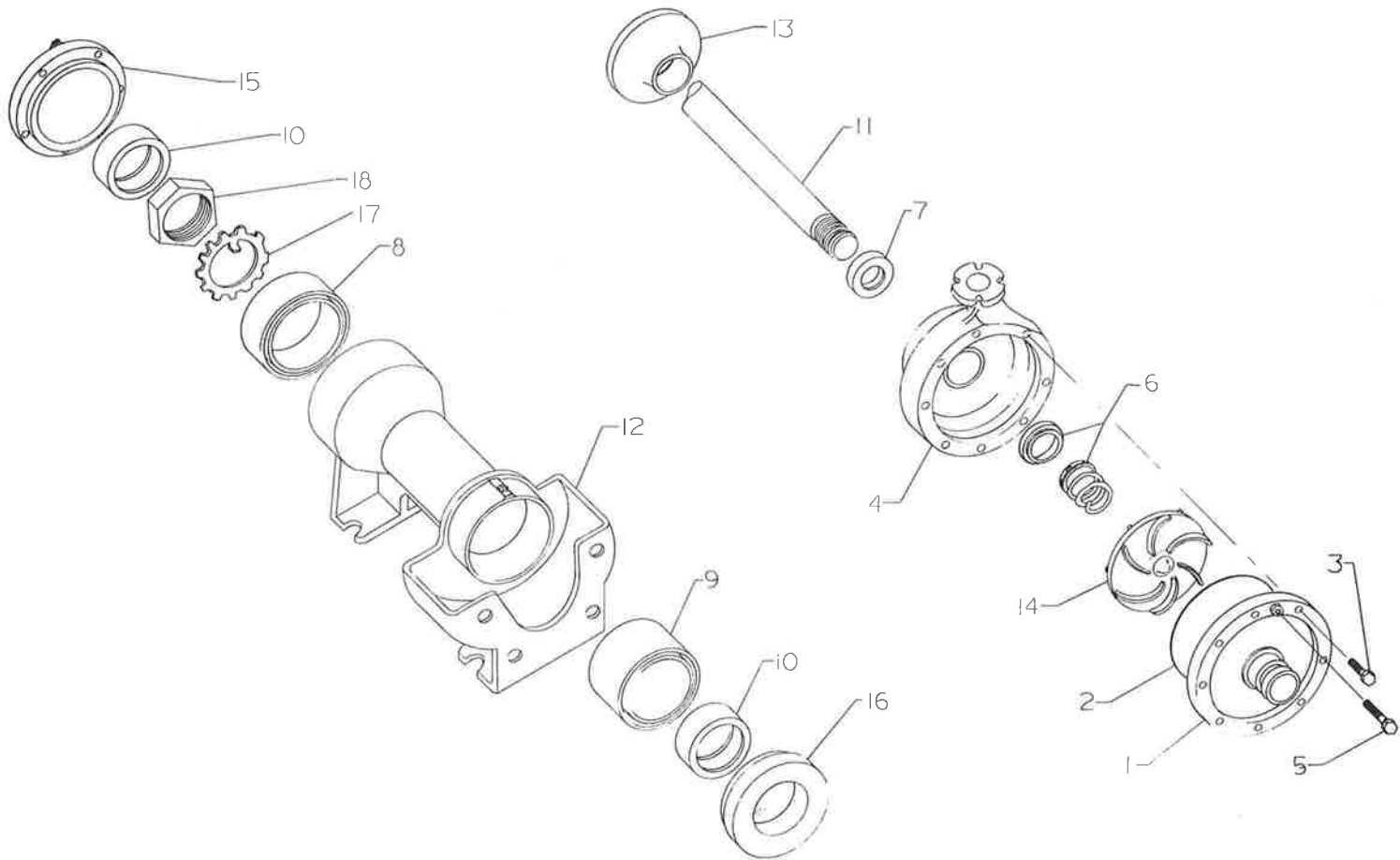


DISCHARGE BOOM ASSEMBLY

| Ref No. | Part No.  | Description                          | No. Req'd |
|---------|-----------|--------------------------------------|-----------|
|         | 012043    | Discharge Boom Assembly<br>includes: | 1         |
| 1       | 012043-16 | Stand Pipe                           | 1         |
| 2       | 012043-02 | Lower Boom Pipe                      | 1         |
| 3       | 012043-01 | Upper Boom Pipe                      | 1         |
| 4       | 011689    | Swivel                               | 2         |
| 5       | 160776    | Bushing                              | 4         |
| 6       | 010544    | Coupler, Nozzle                      | 1         |
|         | 006513    | Gasket                               | 1         |
| 7       | 012043-19 | Boom Handle                          | 1         |
| 8       | 011914    | Knob                                 | 1         |
|         | 011917*   | Swivel Repair Kit                    | 2         |

\*Not Included with #012043

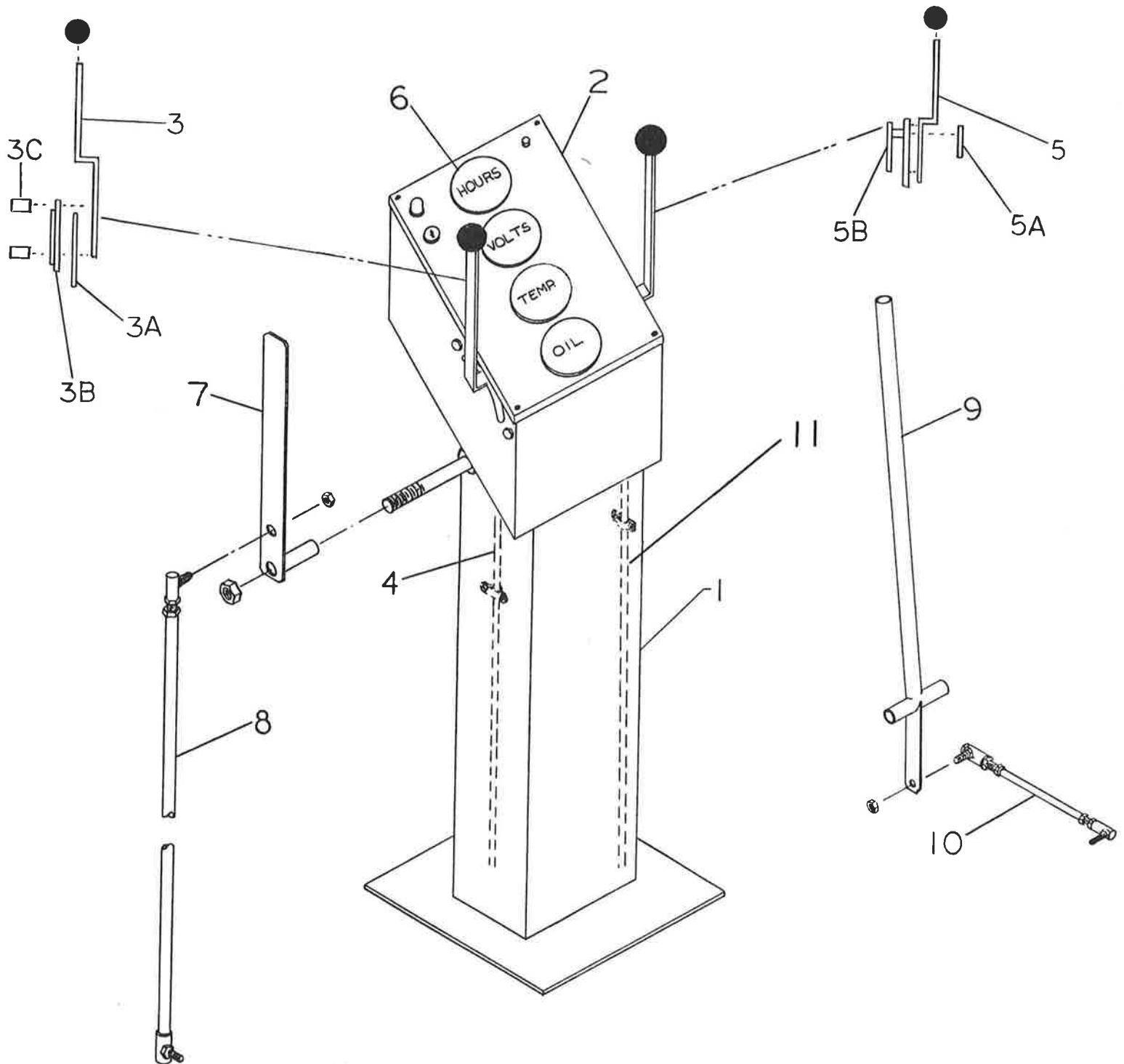
**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**



PUMP PARTS

| Ref No. | Part No. | Description                  | No. Req'd |
|---------|----------|------------------------------|-----------|
|         | 011756   | Pump Assembly Consisting Of: |           |
| 1       | 011759   | Cover, Pump Suction          | 1         |
| 2       | 011920   | O-Ring, Suction Cover        | 1         |
| 3       | X0824    | Bolts, Suction Cover         | 12        |
| 4       | 011757   | Casing                       | 1         |
| 5       | X0828    | Bolts, Adjusting             | 6         |
| 6       | 006443   | Seal Assembly (60BC18)       | 1         |
| 7       | 006444   | Seal, Grease Retainer        | 1         |
| 8       | 006445   | Bearing, Radial              | 1         |
| 9       | 006446   | Bearing, Thrust              | 1         |
| 10      | 006447   | Seal, Grease Retainer        | 2         |
| 11      | 002945   | Shaft                        | 1         |
| 12      | 002960   | Frame                        | 1         |
| 13      | 006450   | Slinger, Radial Bearing      | 1         |
| 14      | 011758   | Impeller                     | 1         |
| 15      | 002961   | Retainer, Thrust Bearing     | 1         |
| 16      | 006537   | Retainer, Radial Bearing     | 1         |
| 17      | 007366   | Lock, Shaft Nut              | 1         |
| 18      | 007367   | Nut, Shaft                   | 1         |

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



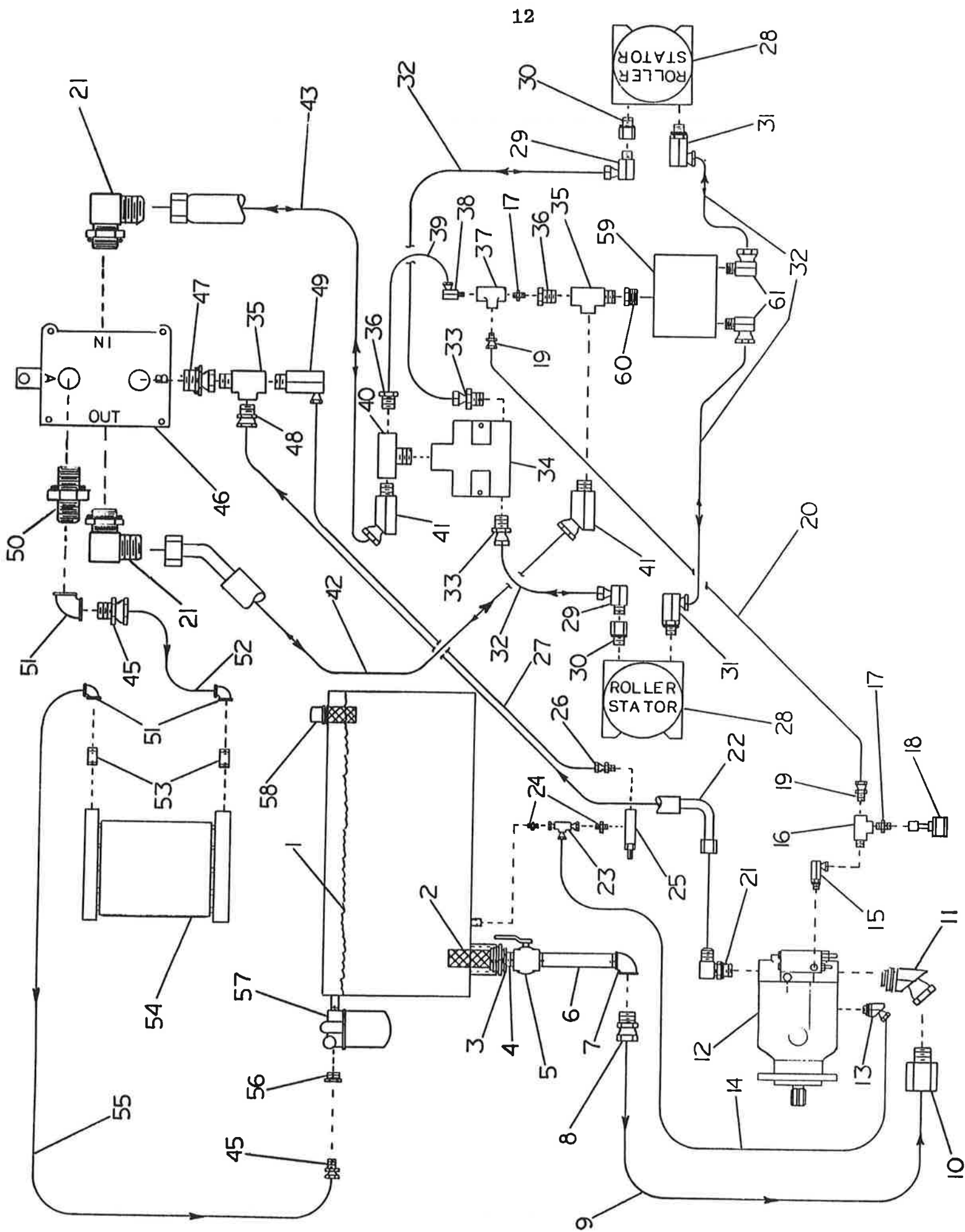
**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**

## CONTROL TOWER

| Ref No. | Part No.  | Description                                                                           | No. Req'd |
|---------|-----------|---------------------------------------------------------------------------------------|-----------|
|         | 011794    | Control Tower w/Box Includes:                                                         | 1         |
| 1       | 011795    | Tower Assembly                                                                        | 1         |
| 2       | 011814    | Control Box-No Components                                                             | 1         |
| 3       | 011913    | Throttle Handle                                                                       | 1         |
|         | 011954    | Knob                                                                                  | 1         |
| 3A      | 011918    | Output Lever                                                                          | 1         |
| 3B      | 011912    | Control Braking Unit                                                                  | 1         |
| 3C      | 011796-05 | Spacer                                                                                | 2         |
| 4       | 010347    | Throttle Cable                                                                        | 1         |
|         | 007675    | Ball Joint                                                                            | 1         |
| 5       | 011913    | Agitator Control Handle                                                               | 1         |
|         | 011954    | Knob                                                                                  | 1         |
| 5A      | 011976-03 | Mounting Bracket                                                                      | 1         |
| 5B      | 011976-06 | Output Lever                                                                          | 1         |
| 6       |           | Switches, Gauges & Tower Wiring<br>Harness (See pages 18 & 19)<br>- order separately- |           |
| 7       | 011823    | Clutch Handle                                                                         | 1         |
| 8       | 011819*   | Clutch Rod (T170 only)                                                                | 1         |
|         | 006737    | Ball Joint                                                                            | 2         |
|         | or        |                                                                                       |           |
|         | 011820*   | Clutch Rod (T280/330 only)                                                            | 1         |
|         | 006737    | Ball Joint                                                                            | 2         |
| 9       | 011051    | Recirculation Valve Handle                                                            | 1         |
| 10      | 011818    | Valve Operating Link                                                                  | 1         |
|         | 006737    | Ball Joint                                                                            | 2         |
| 11      | 006596    | Control Cable                                                                         | 1         |
|         | 007675    | Ball Joint (Control End)                                                              | 1         |
|         | 020682    | Clevis (Valve End)                                                                    | 1         |

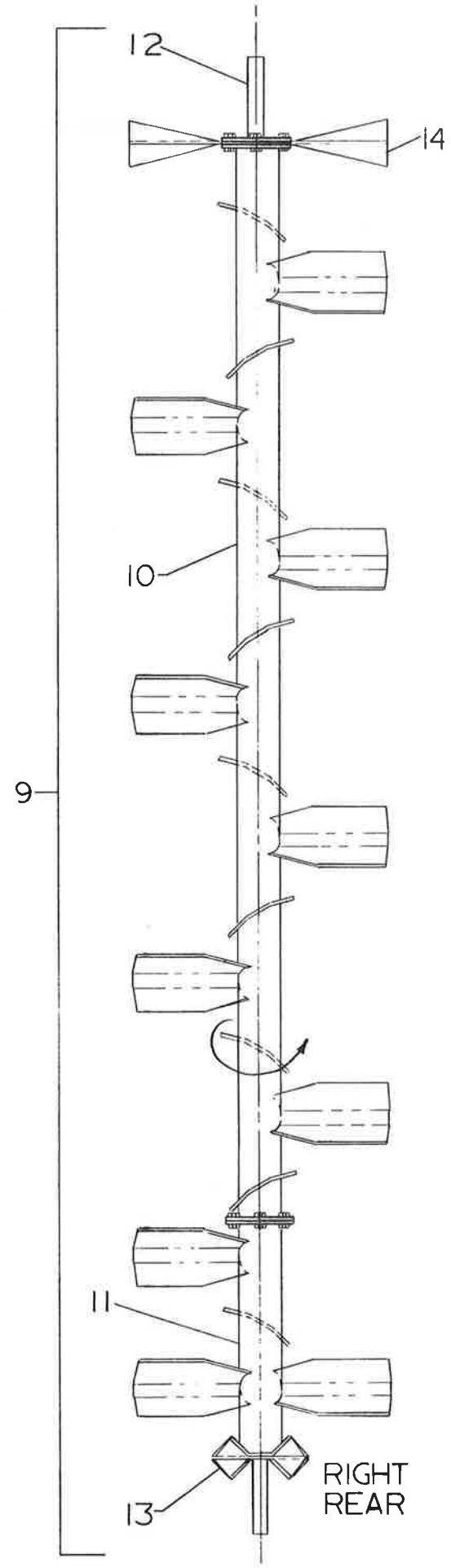
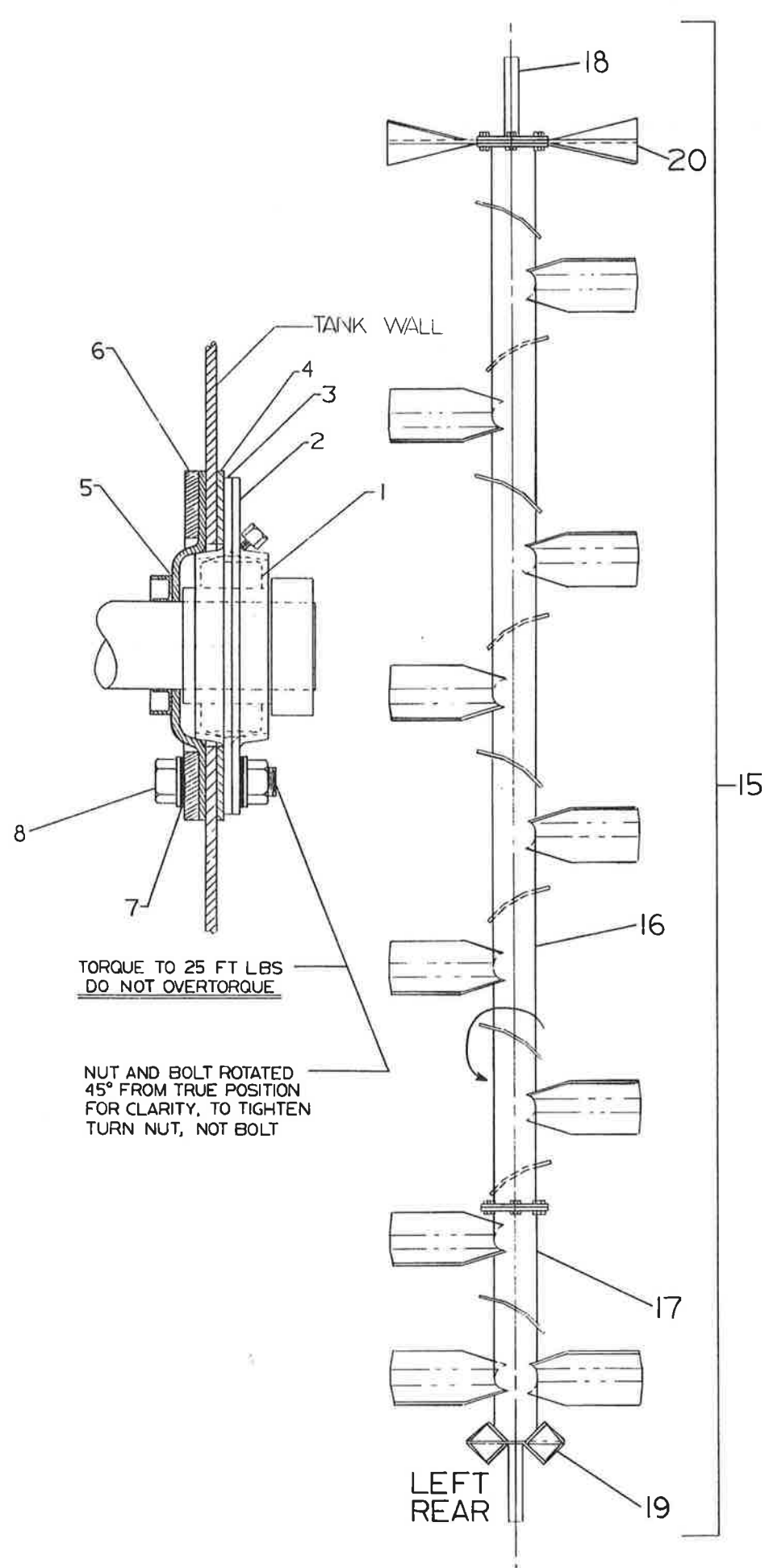
\* Order either #011819 or #011820 NOT both.

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



## HYDRAULIC SYSTEM

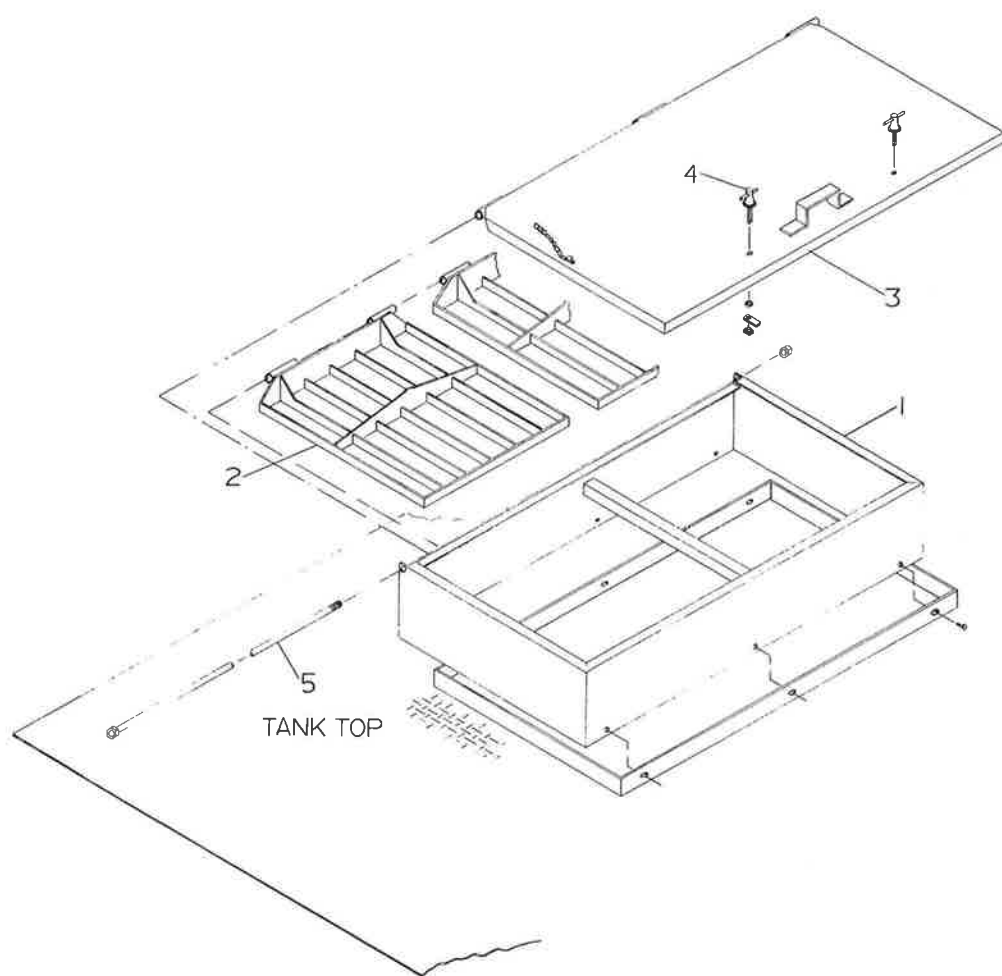
| REF NO. | PART NO.  | DESCRIPTION                         | NO REQ'D |
|---------|-----------|-------------------------------------|----------|
| 1       | 011949    | Hyd.Fluid-10W-40 Motor Oil SE       | 46gal.   |
| 2       | 011927    | Suction Strainer                    | 1        |
| 3       | 160763    | Bushing                             | 1        |
| 4       | 160309    | Nipple                              | 1        |
| 5       | 011921    | Ball Valve                          | 1        |
| 6       | 011884-01 | Suction Pipe                        | 1        |
| 7       | 160014    | 90 deg. Elbow                       | 1        |
| 8       | 020913    | Straight Swivel Adapter Union       | 1        |
| 9       | 011938    | Suction Hose                        | 1        |
| 10      | 011937    | Reducer                             | 1        |
| 11      | 011928    | O-Ring Swivel Adapter Union 45 deg. | 1        |
| 12      | 011922    | Hydraulic Pump                      | 1        |
| 13      | 011933    | O-Ring Swivel Adapter union 45 deg. | 1        |
| 14      | 011944    | Case Drain Hose                     | 1        |
| 15      | 011929    | O-Ring Swivel Adapter Union 90 deg. | 1        |
| 16      | 011934    | Tee                                 | 1        |
| 17      | 070487    | Hex Nipple                          | 2        |
| 18      | 022302    | Quick Disconnect                    | 1        |
| 19      | 022304    | Straight Swivel Adapter Union       | 2        |
| 20      | 011945    | Pressure Sensing Hose               | 1        |
| 21      | 011932    | O Ring Adapter Union 90 deg.        | 3        |
| 22      | 011939    | High Pressure Hose                  | 1        |
| 23      | 011935    | Swivel Tee                          | 1        |
| 24      | 022263    | Hex Nipple                          | 2        |
| 25      | 011626-32 | Relief Valve                        | 1        |
| 26      | 022593    | Straight Swivel Adapter Union       | 1        |
| 27      | 011943    | Pressure Relief hose                | 1        |
| 28      | 011859    | Hydraulic Motor                     | 2        |
| 29      | 021669    | Swivel Adapter Union - 90 deg       | 2        |
| 30      | 070494    | O Ring Straight Adapter             | 2        |
| 31      | 070407    | O Ring Swivel Adapter Union 90 deg  | 2        |
| 32      | 011942    | Motor Hose                          | 4        |
| 33      | 070497    | Straight Swivel Adapter Union       | 2        |
| 34      | 011923    | Flow Integrator Valve w/o Spool     | 1        |
| 35      | 022346    | Tee                                 | 2        |
| 36      | 011936    | Bushing                             | 2        |
| 37      | 011924    | Shuttle Valve                       | 1        |
| 38      | 025220    | Swivel Adapter Union 90 deg.        | 1        |
| 39      | 011946    | Shuttle Hose                        | 1        |
| 40      | 011625    | Tee                                 | 1        |
| 41      | 080234    | Swivel Adapter Union 45 deg         | 2        |
| 42      | 011940    | Work Hose -Divider                  | 1        |
| 43      | 011941    | Work Hose- Integrator               | 1        |
| 44      | 011931    | Adapter Union 90 deg.               | 2        |
| 45      | 021802    | Straight Swivel Adapter Union       | 2        |
| 46      | 012059    | Hydraulic 4 Way Valve               | 1        |
|         | 011492-01 | Valve Handle                        | 1        |
| 47      | 012064    | Straight Swivel Adapter Union       | 1        |
| 48      | 070492    | Straight Swivel Adapter Union       | 1        |
| 49      | 011930    | Swivel Adapter Union 90 deg.        | 1        |
| 50      | 012063    | Straight Adapter                    | 1        |
| 51      | 160010    | 90 deg. Elbow                       | 3        |
| 52      | 011948    | Return Hose- Cooler                 | 1        |
| 53      | 160484    | Nipple                              | 2        |
| 54      | 011789    | Heat Exchanger                      | 1        |
| 55      | 011947    | Return Hose- Tank                   | 1        |
| 56      | 160750    | Bushing                             | 1        |
| 57      | 011868    | Return Filter                       | 1        |
|         | 011869    | Filter Element                      | 1        |
| 58      | 011783    | Filler/Breather cap                 | 1        |
|         | 011784    | Filter Element                      | 1        |
| 59      | 011959    | Flow Integrator-Divider             | 1        |
|         | 011960    | Mounting Plate                      | 1        |
| 60      | 011958    | Bushing                             | 1        |
| 61      | 023121    | Swivel Adapter Union- 90 deg.       | 2        |





## AGITATOR ASSEMBLY

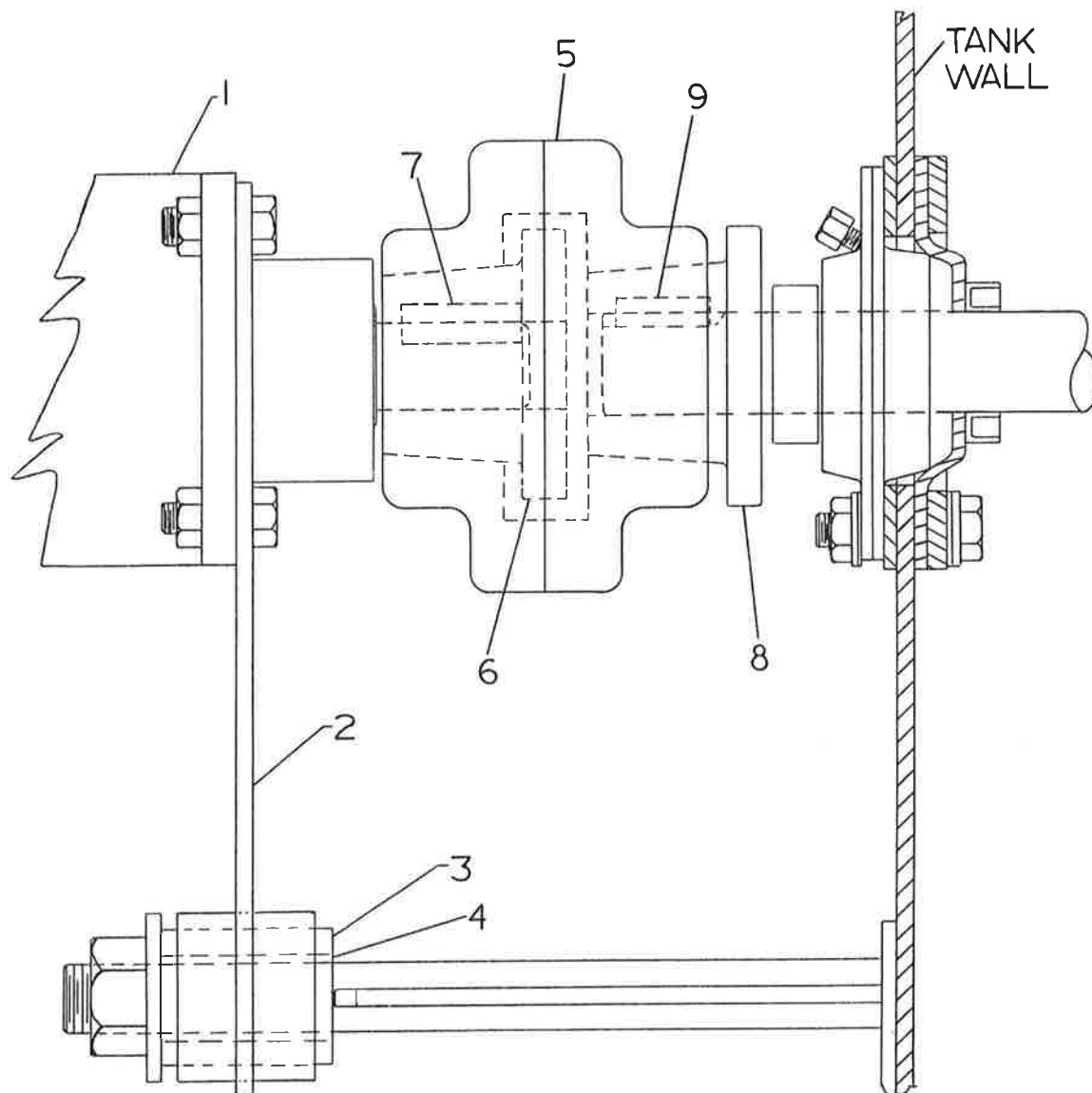
| Ref No. | Part No.  |           | Description                               | No. Req'd |
|---------|-----------|-----------|-------------------------------------------|-----------|
|         | T280      | T330      |                                           |           |
|         | 007420    | 007420    | Bearing & Seal Assembly<br>consisting of: | 4         |
| 1       | 003022    | 003022    | Bearing                                   | 1 per     |
| 2       | 007211    | 007211    | Flangette w/Lube Coupling                 | 1 per     |
| 3       | 007212    | 007212    | Flangette                                 | 1 per     |
| 4       | 006975    | 006975    | Gasket                                    | 1 per     |
| 5       | 007416    | 007416    | Shaft Seal                                | 1 per     |
| 6       | 007417    | 007417    | Clamping Ring                             | 1 per     |
| 7       | 008008    | 008008    | Rubber Washer                             | 8 per     |
| 8       | X0824     | X0824     | Bolt,Nut,Washer (2)                       | 4 per     |
| 9       | 011721    | 011836    | Right Agitator Assembly                   | 1         |
| 10      | 011722    | 011838    | Right Main Shaft w/Paddles                | 1         |
| 11      | 011722-04 | 011722-04 | Right Extension w/Paddles                 | 1         |
| 12      | 008440-01 | 008440-01 | Stub Shaft                                | 1         |
| 13      | 011725-01 | 011725-01 | Rear Bolt-On-Paddle                       | 2         |
| 14      | 011725-02 | 011725-02 | Front Bolt-On-Paddle                      | 2         |
| 15      | 011720    | 011837    | Left Agitator Assembly                    | 1         |
| 16      | 011723    | 011839    | Left Main Shaft w/Paddles                 | 1         |
| 17      | 011723-04 | 011723-04 | Left Extension w/Paddles                  | 1         |
| 18      | 008440-01 | 008440-01 | Stub Shaft                                | 1         |
| 19      | 011725-01 | 011725-01 | Rear Bolt-On Paddle                       | 2         |
| 20      | 011725-02 | 011725-02 | Front Bolt-On-Paddle                      | 2         |



## HATCH ASSEMBLY

| Ref No. | Part No.  | Description               | No. Req'd |
|---------|-----------|---------------------------|-----------|
|         | 011881    | Hatch Assembly, Includes: | 1         |
| 1       | 008439    | Hatch Liner               | 1         |
|         | 190044    | Gasket                    | 100"      |
| 2       | 011798    | Bag Cutter-Grate Assembly | 2         |
| 3       | 011802    | Hatch Lid                 | 1         |
|         | 190001    | Chain                     | 15"       |
| 4       | 005136    | T-Handle Latch            | 2         |
| 5       | 011798-09 | Hinge Rod                 | 1         |
|         | Y08L      | Locknut                   | 1         |

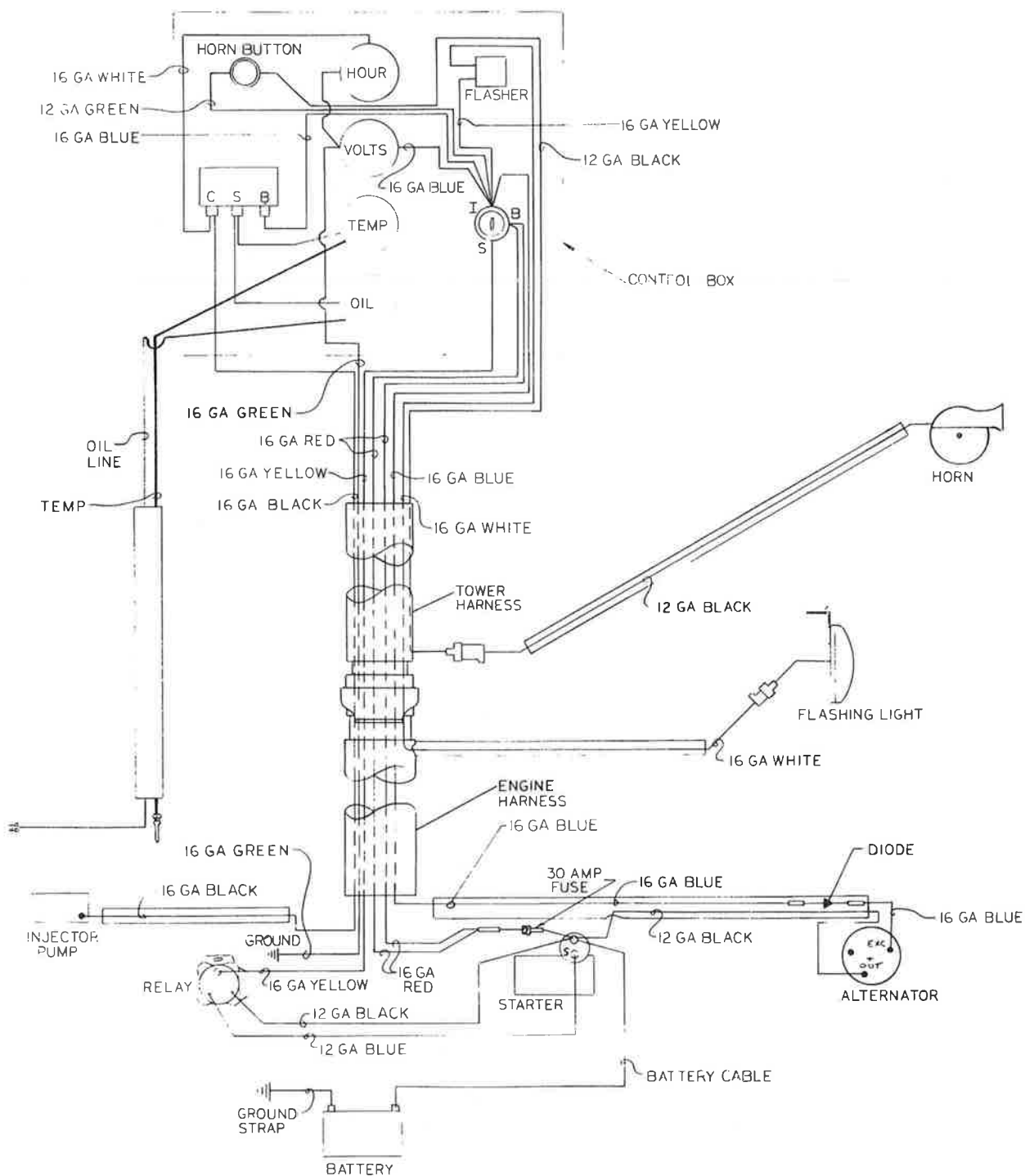
**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**



## HYDRAULIC AGITATOR DRIVE

| REF NO. | PART NO.  | DESCRIPTION           | NO. REQ'D |
|---------|-----------|-----------------------|-----------|
| 1       | 011859    | Hydraulic Motor       | 2         |
|         | X0840     | Bolt and Locknut      | 8         |
| 2       | 011812-01 | Hydraulic Motor Mount | 2         |
| 3       | 012522-02 | Rubber Bushing        | 2         |
| 4       | 012522-04 | Insert                | 2         |
| 5       | 011780    | Coupling              | 2         |
| 6       | 025228    | Bushing, Motor        | 2         |
| 7       | 023191    | Key                   | 2         |
| 8       | 003055b   | Bushing, Agitator     | 2         |
| 9       | 000536    | Key                   | 2         |
| 10      | 011811-03 | Torque Arm Link       | 1         |

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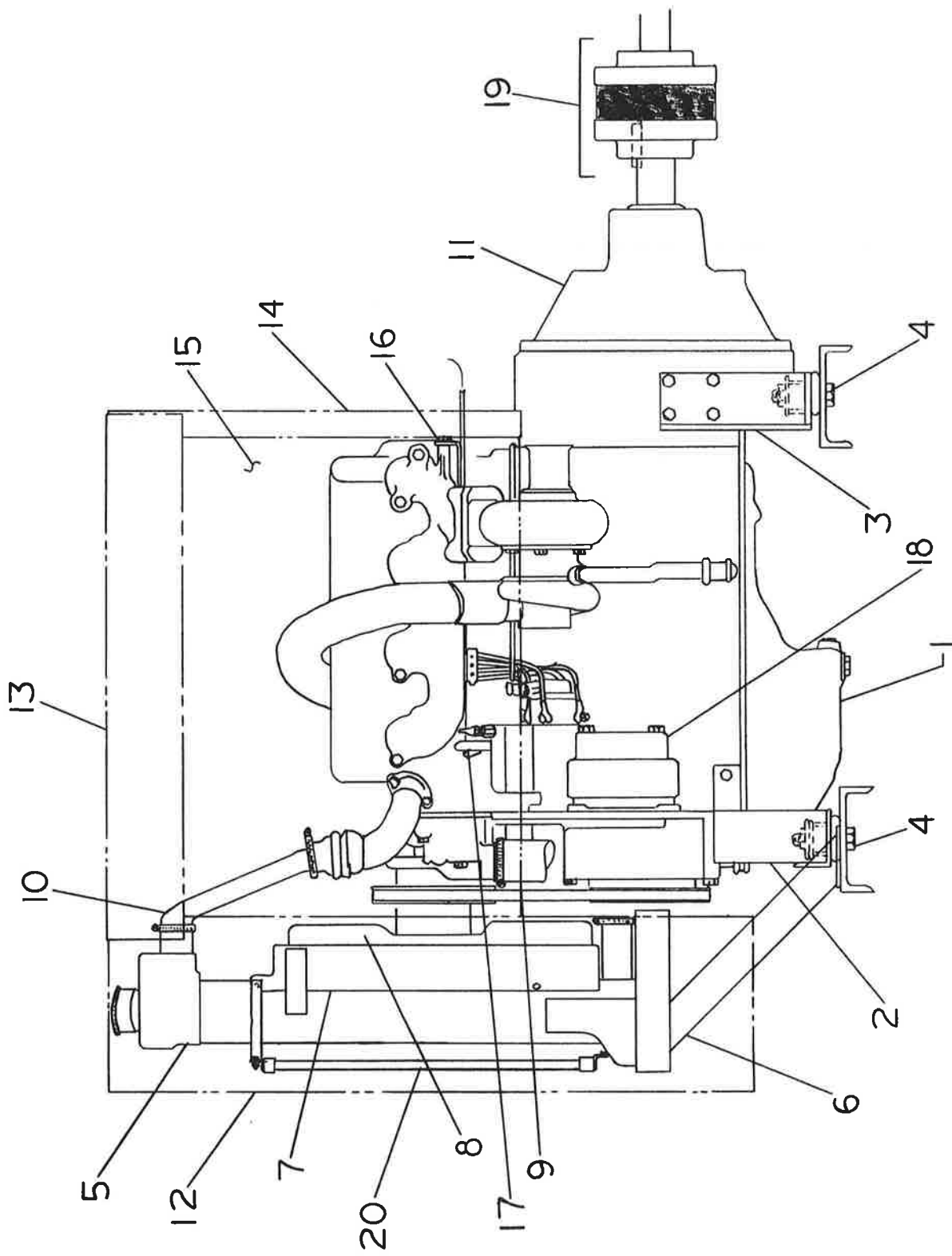
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## ELECTRICAL SYSTEM

| PART NO.  | DESCRIPTION                           | NO. REQ'D |
|-----------|---------------------------------------|-----------|
| 020886    | Horn Button                           | 1         |
| 022948    | Ignition Switch                       | 1         |
| 022119    | Safety Switch                         | 1         |
| 021198    | Flasher w/Bracket                     | 1         |
| 007274    | Hourmeter                             | 1         |
| 007958    | Voltmeter                             | 1         |
| 011489    | Temperature Gauge                     | 1         |
| 007706    | Oil Pressure Gauge                    | 1         |
| 008473    | Oil Pressure Line Kit                 | 1         |
| 008503-01 | Tower Wiring Harness (T170 only)      | 1         |
| 008503-02 | Tower Wiring Harness (T280,T330 only) | 1         |
| 008504    | Engine Wiring Harness                 | 1         |
| 007336    | Flashing Light                        | 1         |
| 006499    | Horn                                  | 1         |
| 022425    | Diode                                 | 1         |
| 022891    | Relay                                 | 1         |
| 023511    | Alternator/Regulator Assembly         | 1         |
| 011712    | Single Groove Pulley (T170 only)      | 1         |
| 011713    | Double Groove Pulley (T280/330 only)  | 1         |
| 011851    | Battery                               | 1         |
| 080220    | Battery Box Holddown                  | 1         |
| 008171    | Battery Cable                         | 1         |
| 000241    | Ground Cable                          | 1         |
| 007091    | Engine Ground Strap                   | 1         |
| 011770    | Battery Box                           | 1         |

023076 Ignition Key

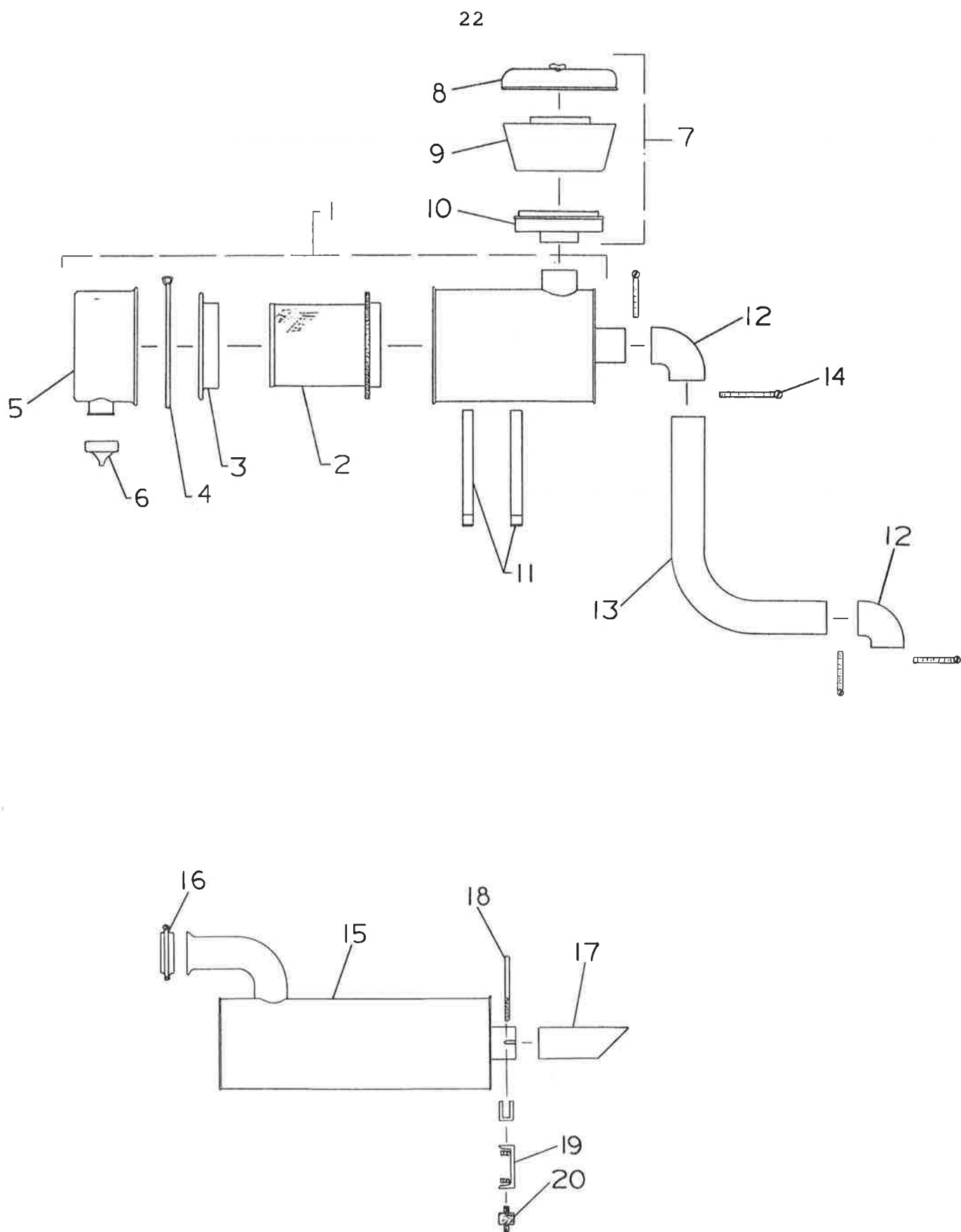
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SERIAL NUMBER OF MACHINE**



21  
POWER SYSTEM

| REF NO. | PART NO.  | DESCRIPTION                                           | NO. REQ'D |
|---------|-----------|-------------------------------------------------------|-----------|
| 1       | 011714    | Turbo Engine Assembly Includes:<br>Part No.'s Marked* | 1         |
| 2       | 008460    | Front Engine Mount                                    | 1         |
|         | X1020     | Bolt and Lockwasher                                   | 3         |
|         | X0820     | Bolt and Lockwasher                                   | 1         |
| 3       | 011344    | Rear Engine Mount                                     | 2         |
|         | X0820     | Bolt and Lockwasher                                   | 8         |
| 4       | 007433    | Shock Mount                                           | 4         |
|         | 007887    | Snubbing Washer                                       | 4         |
|         | X1048     | Bolt and Locknut                                      | 4         |
| 5       | 022491    | Radiator Assembly                                     | 1         |
|         | 008279    | Rubber Mount                                          | 2         |
|         | 022452    | Drain Cock                                            | 1         |
|         | 007878*   | Cap                                                   | 1         |
|         | 007429    | Decal, Radiator                                       | 1         |
| 6       | 011875    | Radiator Mount                                        | 1         |
|         | X0616     | Bolt, Nut, Washer                                     | 4         |
| 7       | 023491*   | Fan Shroud                                            | 1         |
| 8       | 011747*   | Fan                                                   | 1         |
| 9       | JDR53550* | Lower Radiator Hose                                   | 1         |
|         | 022450    | Clamp                                                 | 2         |
| 10      | JDR54534* | Upper Radiator Hose                                   | 1         |
|         | 022450    | Clamp                                                 | 2         |
| 11      | 022816    | Clutch Assembly (see page 24)                         | 1         |
|         | 022314    | Pilot Bearing                                         | 1         |
| 12      | 011832    | Radiator Cover                                        | 1         |
|         | 011885-03 | Spacer                                                | 2         |
| 13      | 008476    | Engine Top Cover                                      | 1         |
| 14      | 011833    | Engin Rear Cover                                      | 1         |
|         | 011910-08 | Cover Support Bracket                                 | 1         |
|         | 011910-09 | Cover Support Bracket                                 | 1         |
|         | 008317    | Spacer                                                | 2         |
| 15      | 011834    | Engine Side Panel                                     | 1         |
| 16      | 011885-04 | Throttle Control Mtg. Bracket                         | 1         |
| 17      | 007724    | Pivot, Throttle Cable                                 | 1         |
| 18      | 011922    | Hydraulic Pump                                        | 1         |
|         | X0824     | Bolt and Lockwasher                                   | 2         |
| 19      | 011771    | Coupling Assembly                                     | 1         |
|         | 011773    | Engine Coupling Half                                  | 1         |
|         | 011772    | Pump Coupling Half                                    | 1         |
|         | 011774    | Insert                                                | 1         |
|         | 011441    | Key, Engine Shaft to Coupling                         | 1         |
| 20      | 011789    | Hydraulic System Cooler                               | 1         |
|         | 023438    | Rubber Mount                                          | 1         |
|         | 011926    | Mounting Strap                                        | 1         |
|         | 190124-32 | Keyway Pump Shaft                                     |           |
|         | 011441    | Keyway Engine Shaft                                   |           |
|         | 011824    | Coupling Guard                                        | 1         |
|         | 008451    | Fuel Tank                                             | 1         |
|         | 011867    | Fuel Gauge                                            | 1         |
|         | 011889    | Brass Adapter                                         | 1         |
|         | 007914    | Cap, Fuel Tank                                        | 1         |
|         | 007907    | Filler Neck, Fuel                                     | 1         |

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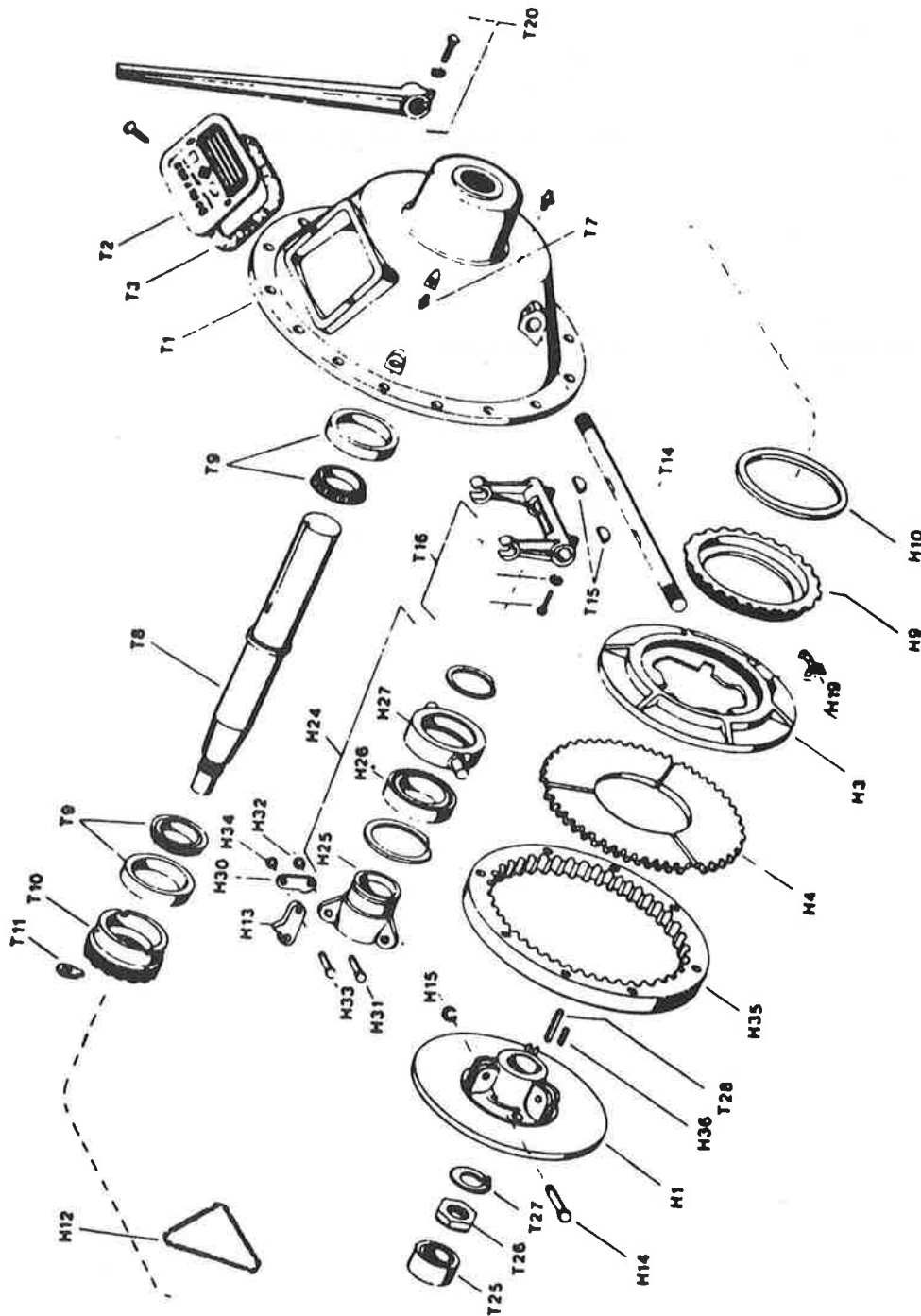


## AIR CLEANER &amp; EXHAUST ASSEMBLY

| REF NO. | PART NO.   | DESCRIPTION                    | NO. REQ'D |
|---------|------------|--------------------------------|-----------|
| 1       | 011854     | Air Cleaner Assembly includes: | 1         |
| 2       | 011858     | Element, Air Cleaner           | 1         |
| 3       | DNP10-2980 | Baffle Assembly                | 1         |
| 4       | DNP00-3951 | Clamp                          | 1         |
| 5       | DNP10-3836 | Vacuator Cup                   | 1         |
| 6       | 007994     | Vacuator Valve                 | 1         |
| 7       | 011853     | Pre Cleaner Assembly includes: | 1         |
| 8       | DNP01-6548 | Cover                          | 1         |
| 9       | DNP01-6330 | Bowl                           | 1         |
| 10      | DNP01-6336 | Sleeve                         | 1         |
| 11      | 022647     | Mounting Band                  | 2         |
| 12      | 011852     | Rubber Elbow                   | 2         |
| 13      | 012062-05  | Connecting Tube                | 1         |
| 14      | 022657     | Clamp                          | 4         |
| 15      | 011877     | Muffler                        | 1         |
| 16      | 011874     | Clamp                          | 1         |
| 17      | 011878-02  | Tail Pipe                      | 1         |
| 18      | 022315     | Clamp                          | 1         |
| 19      | 011220-03  | Support Channel                | 1         |
| 20      | 023438     | Rubber Mount                   | 1         |

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## POWER TAKE-OFF ASSEMBLY



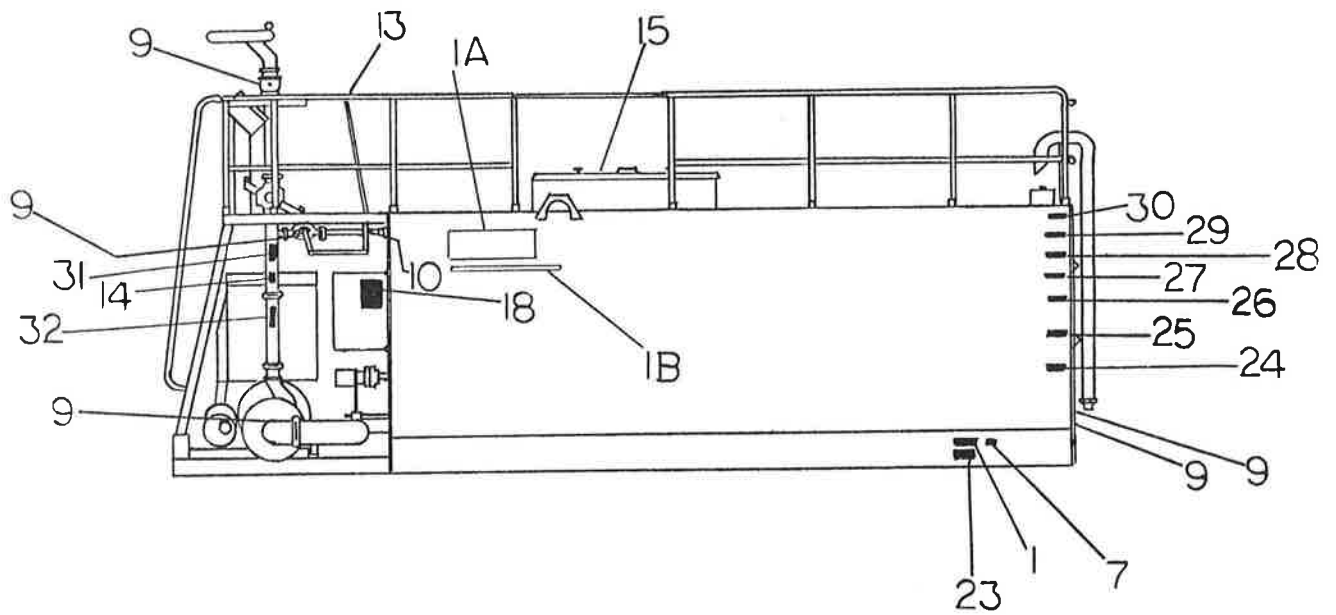
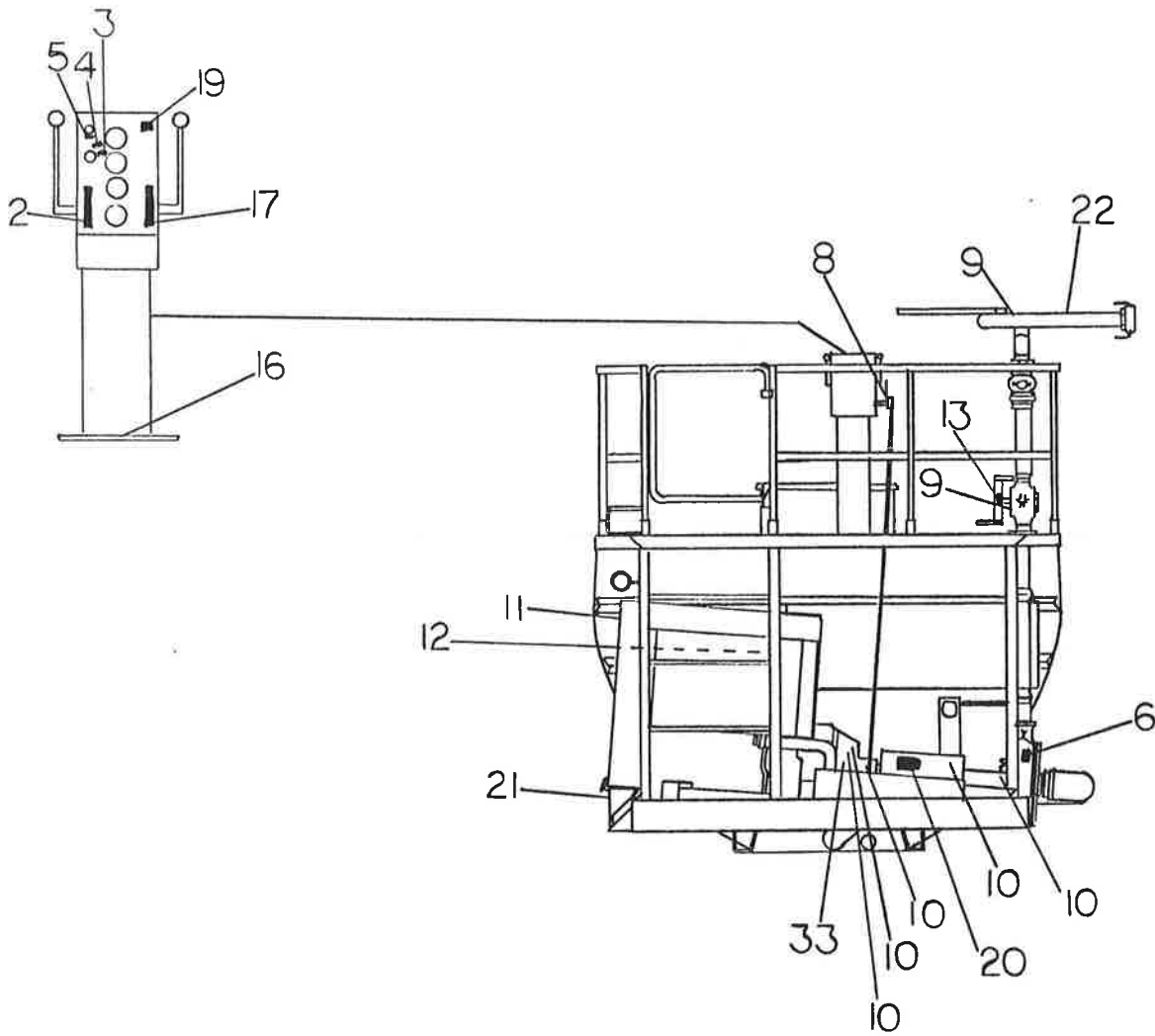
**WHEN ORDERING PARTS, BE SURE TO STATE  
SERIAL NUMBER OF MACHINE**

## POWER TAKE OFF ASSEMBLY

| Ref No.  | Part No. | Description                   | No. Req'd |
|----------|----------|-------------------------------|-----------|
|          | 022816   | Power Take Off                | 1         |
|          |          | Includes:                     |           |
| H1       | 100011   | Body, Clutch                  | 1         |
| H3       | 100028   | Pressure Plate                | 1         |
| H4       | 100004   | Clutch Fac (nt)               | 1         |
| H9       | 100013   | Ring, Ad                      | 1         |
| H10      | 100032   | Plate,                        | 1         |
| H12      | 100026   | Spri                          | 1         |
| H13      | 100018   | Le                            | 3         |
| H14      | 100010   | Lever                         | 3         |
| H15      | 100007   | Shifting                      | 3         |
| H19      | 100024   | Adjusting                     | 1         |
| H24      | 100071   | e, Sleeve, & Bearing Assy     | 1         |
| H25      | 100029   | Release                       | 1         |
| H26      | 10003    | Bearing, Release              | 1         |
| H27      | 100      | Carrier, Bearing              | 1         |
| H30      | 10       | Link, Connecting              | 6         |
| H31, H33 | 100      | Pins, Link                    | 6         |
| H32, H34 | 1000     | Ring, Retaining               | 6         |
| H35      | 10000    | Ring, Driving                 | 1         |
| H36      | 100017   | Spring, Separator             | 3         |
| All H's  | 100035   | Clutch Assembly               | 1         |
| T1       | 100304   | Clutch Housing                | 1         |
| T2       | 100063   | Instruction Plate             | 1         |
| T3       | 100054   | Gasket, Cover                 | 1         |
| T7       | 100043   | Fitting, Lubrication          | 1         |
| T8       | 100053   | Drive Shaft                   | 1         |
| T9       | 100052   | Bearing Cup & Cone (394A-390) | 2         |
| T10      | 100048   | Retainer Bearing              | 1         |
| T11      | 100039   | Lock, Retainer                | 1         |
| T14      | 100040   | Shaft, Yoke                   | 1         |
| T15      | 100305   | Key, Woodruff                 | 2         |
| T16      | 100306   | Yoke, Clutch                  | 1         |
| T20      | 010284   | Lever, Shifting               | 1         |
| T25      | 022314   | Pilot Bearing                 | 1         |
| T26      | 100307   | Nut, Drive Shaft              | 1         |
| T27      | 100308   | Lock Washer                   | 1         |
| T28      | 100061   | Key, Clutch                   | 1         |
| T31      | 100224   | Lube Fitting, Yoke Shaft      | 2         |

Please do not use this page to obtain clutch part numbers.  
See the Clutch Addendum Manual

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## DECALS AND LOCATION

| Ref No. | Part No.     | Description                                | No. Req'd |
|---------|--------------|--------------------------------------------|-----------|
| 1       | 023173       | Finn Name Plate                            | 1         |
| 1A      | 023174       | Decal "Finn"                               | 2         |
| 1B      | 011595       | Decal "Hydroseeder"                        | 2         |
| 2       | 007535       | Decal "Throttle"                           | 1         |
| 3       | 006870-IGN   | Decal "Ignition"                           | 1         |
| 4       | 006870-START | Decal "Start"                              | 1         |
| 5       | 006870-HORN  | Decal "Horn"                               | 1         |
| 6       | 006869       | Decal "Caution! Pressure Lubricator"       | 1         |
| 7       | 020976       | Decal "Patent Infringement"                | 1         |
| 8       | 004661       | Decal "Clutch Engage"                      | 1         |
| 9       | 007230       | Decal "Service Daily"                      | 7         |
| 10      | 007231       | Decal "Service Weekly"                     | 6         |
| 11      | 007429       | Decal "Radiator Protection"                | 1         |
| 12      | 007607       | Decal "Drain Water Daily"                  | 1         |
| 13      | 008160       | Decal "Valve Operation"                    | 2         |
| 14      | 008209       | Decal "Danger! Before Loosening"           | 1         |
| 15      | 008097       | Decal "Danger! Before Entering"            | 1         |
| 16      | 023519       | Decal "Caution Wear Eye Protection"        | 1         |
| 17      | 008286       | Decal "Agitator Speed"                     | 1         |
| 18      | 021665       | Decal "Hydraulic Insrtuction"              | 1         |
| 19      | 022082       | Decal "Hold Button for 10 Seconds"         | 1         |
| 20      | 022357       | Decal "Caution! Turn Off Engine"           | 1         |
| 21      | 023391       | Decal "Diesel Fuel Only"                   | 1         |
| 22      | 011567       | Decal "Danger! Do Not Aim Stream"          | 1         |
| 23      | 011662       | Decal "U.S. Patent Numbers"                | 1         |
| 24      | 005186       | Decal "500 Gallons"                        | 1         |
| 25      | 005187       | Decal "800 Gallons"                        | 1         |
| 26      | 005188       | Decal "1000 Gallons"                       | 1         |
| 27      | 011790       | Decal "1500 Gallons"                       | 1         |
| 28      | 011791       | Decal "2000 Gallons" (T-280/330 only)      | 1         |
| 29      | 011792       | Decal "2500 Gallons" (T-280/330 only)      | 1         |
| 30      | 011793       | Decal "3000 Gallons" (T-330 only)          | 1         |
| 31      | 005216       | Decal "Danger! Open Recirculation"         | 1         |
| 32      | 011569       | Decal "Caution! Remote and Hose Reel Only) | 1         |
| 33      | 007351       | Decal "Use Hand Gun Only"                  | 1         |

## NOTE:

Note: Safety Decals must be purchased as a kit  
Part # 012820

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## DISCHARGE HOSE EXTENSION

| PART NO.              | DESCRIPTION                                    | NO. REQ'D  |
|-----------------------|------------------------------------------------|------------|
| TOWER TAKE OFF SYSTEM |                                                |            |
| 007930-02             | Hose Assembly, Discahrge Extension-Tower       | As Ordered |
|                       | 007929 1-1/2" Hose, w/Nipples, 50 ft.          | 1-per      |
|                       | 002191 Adapter                                 | 1-per      |
|                       | 160768 Bushing                                 | 2-per      |
|                       | 010544 Coupler                                 | 1-per      |
|                       | 006513 Gasket                                  | 1-per      |
| PUMP TAKE OFF SYSTEM  |                                                |            |
| 007930-01             | Hose Assembly, Discharge Extension-Pump Remote | As Ordered |
|                       | 007929 1-1/2" Hose w/Nipples, 50 ft.           | 1-per      |
|                       | 001207 Adapter                                 | 1-per      |
|                       | 002158 Coupler                                 | 1-per      |
|                       | 006515 Gasket                                  | 1-per      |
| 011908                | Remote Valve Operation-Heavy Duty              | 1          |
|                       | 007711 Valve, Pump Take-Off                    | 1          |
|                       | 007710 Valve                                   | 1          |
|                       | 002158 Coupler                                 | 1          |
|                       | 160540 Nipple                                  | 1          |
|                       | 007740 Remote Valve Assembly                   | 1          |
|                       | 003242 Valve                                   | 1          |
|                       | 003243 Pipe                                    | 1          |
|                       | 160309 Nipple                                  | 1          |
|                       | 160763 Bushing                                 | 1          |
|                       | 006102 Coupler                                 | 1          |
|                       | 001207 Adapter                                 | 1          |
|                       | 006621 Nozzle Asembly, Wide Ribbon             | 1          |
|                       | 006604 Nozzle, Wide Ribbon                     | 1          |
|                       | 006096 Adapter                                 | 1          |
|                       | 160761 Bushing                                 | 1          |
|                       | 006622 Nozzle Asembly, Narrow Ribbon           | 1          |
|                       | 006605 Nozzle, Narrow Ribbon                   | 1          |
|                       | 006096 Adapter                                 | 1          |
|                       | 160761 Bushing                                 | 1          |

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# RECOMMENDED SPARE PARTS, REPAIR KITS AND MISCELLANEOUS PARTS

Recommended spare parts are available to avoid unnecessary down time.  
Repair kits are available to recondition parts which periodically need service.

| Part No.  | Description                                 | No. Req'd |
|-----------|---------------------------------------------|-----------|
| 011919    | Seal, Suction Pipe                          | 1         |
| 002820    | Seal, Discharge Pipe                        | 1         |
| 006722    | Seal, Recirculation Pipe                    | 1         |
| 006513    | Gasket, Nozzle Coupler                      | 2         |
| 007469    | Lubricant, Recirculation & Discharge Valves | 4         |
| 011858    | Element, Air Cleaner                        | 1         |
| JDH79235  | Belt, Fan (Set of 2 Belts)                  | 1         |
| JDAR50041 | Filter, Fuel                                | 1         |
| JDT19044  | Filter, Oil                                 | 1         |
| 031245    | Snapper Pin-Boom Holddown                   | 1         |

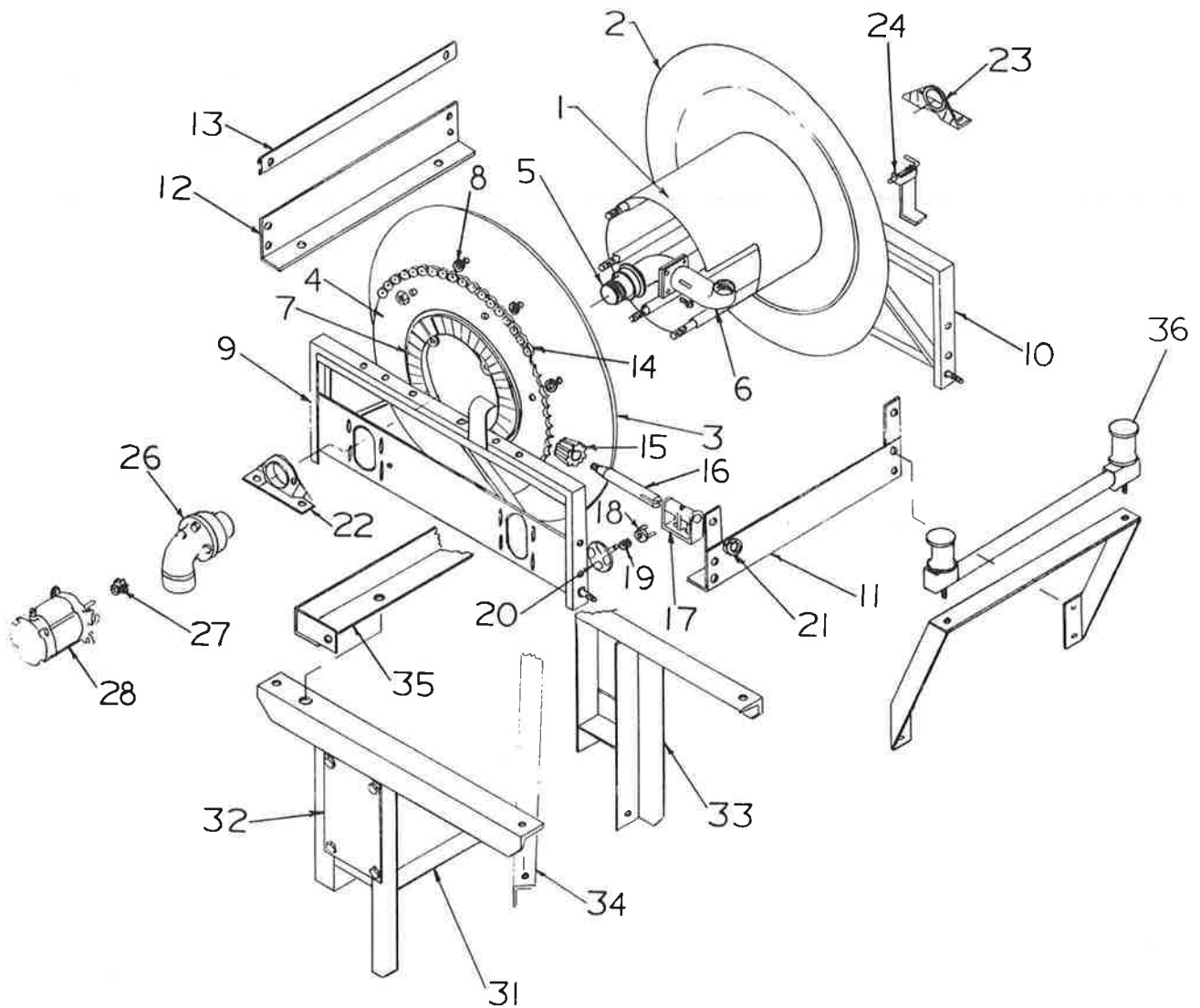
## REPAIR KITS

|        |                              |   |
|--------|------------------------------|---|
| 011917 | Swivel Repair Kit            |   |
| 011975 | Pump Seal Kit Consisting of: |   |
|        | 011920 O Ring                | 1 |
|        | 006443 Seal Assembly         | 1 |
|        | 006444 Grease Retainer       | 1 |
|        | 006447 Grease Seal           | 2 |
| 011974 | Hydraulic Valve Seal Kit     |   |
| 011973 | Hydraulic Motor Seal Kit     |   |

## MISCELLANEOUS PARTS

|           |                                           |          |
|-----------|-------------------------------------------|----------|
| 002190    | Cap, Tank Drain                           | 1        |
| 002191    | Coupling, Tank Drain                      | 1        |
| 002290    | Rear Marker Light                         | 2        |
| 011666    | Exterior Finish Paint-Neutral             |          |
| 011667    | Exterior Primer Paint                     |          |
| 011900    | Interior Finish Paint                     |          |
| 011925    | Heat Shield                               | 1        |
| 190018    | Safety Walk on Ladder                     | As Req'd |
| 011803-01 | Anti-Rotation Bracket-Recirculation Valve | 1        |

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31  
HOSE REEL ASSEMBLY

| REF NO. | PART NO.  | DESCRIPTION                     | NO.REQ'D |
|---------|-----------|---------------------------------|----------|
|         | 008212    | Hose Reel Assembly, Includes:   | 1        |
| 1       |           | Drum                            | 1        |
| 2       |           | Back Disc                       | 1        |
| 3       |           | Front Disc                      | 1        |
| 4       |           | Disc Sprocket                   | 1        |
| 5       |           | Hub, Less Riser                 | 1        |
| 6       |           | Flanged Riser                   | 1        |
| 7       | 008144    | Ring Gear                       | 1        |
| 8       |           | Spacer                          | 6        |
| 9       |           | Front Frame                     | 1        |
| 10      |           | Back Frame                      | 1        |
| 11      |           | Front Foot                      | 1        |
| 12      |           | Back Foot                       | 1        |
| 13      |           | Back Brace                      | 1        |
| 14      | 008200    | Chain w/Connecting Link         | 1        |
| 15      |           | Pinion Gear                     | 1        |
| 16      |           | Pinion Shaft                    | 1        |
| 17      |           | Side Bearing                    | 1        |
| 18      | 008111    | Brake Pad                       | 1        |
| 19      | 008112    | Brake Spring                    | 1        |
| 20      | 008109    | Brake Wheel                     | 1        |
| 21      |           | Pinion Shaft-Collar & Set Screw | 1        |
| 22      | 008314    | Drive Side Bearing              | 1        |
| 23      | 008313    | Idle Side Bearing               | 1        |
| 24      | 008433    | Pin Lock Assembly W/Brackets    | 1        |
| 26      | 008210    | Swivel Joint                    | 1        |
| 27      | 008199    | Chain Sprocket- 11 tooth        | 1        |
| 28      | 008188    | Explosion Proof Motor           | 1        |
| 31      | 011893-01 | Left Mounting Frame             | 1        |
| 32      | 011915-01 | Control Panel w/o Switches      | 1        |
| 33      | 011893-02 | Right Mounting Frame            | 1        |
| 34      | 011892-08 | Cross Angle                     | 1        |
| 35      | 011893-03 | Top Connecting Angle            | 1        |
| 36      | 011894    | Hose Rewind Guide (Optional)    | 1        |
|         | 011916    | Lead-In-Hose                    | 1        |
|         | 001207    | Adapter                         | 1        |
|         | 011955    | Wiring Harness                  | 1        |
|         | 011955-01 | Panel w/Switches                | 1        |
|         | 008420    | Circuit Breaker                 | 1        |
|         | 020886    | Button, Rewind                  | 1        |
|         | 008135    | Solenoid                        | 1        |

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