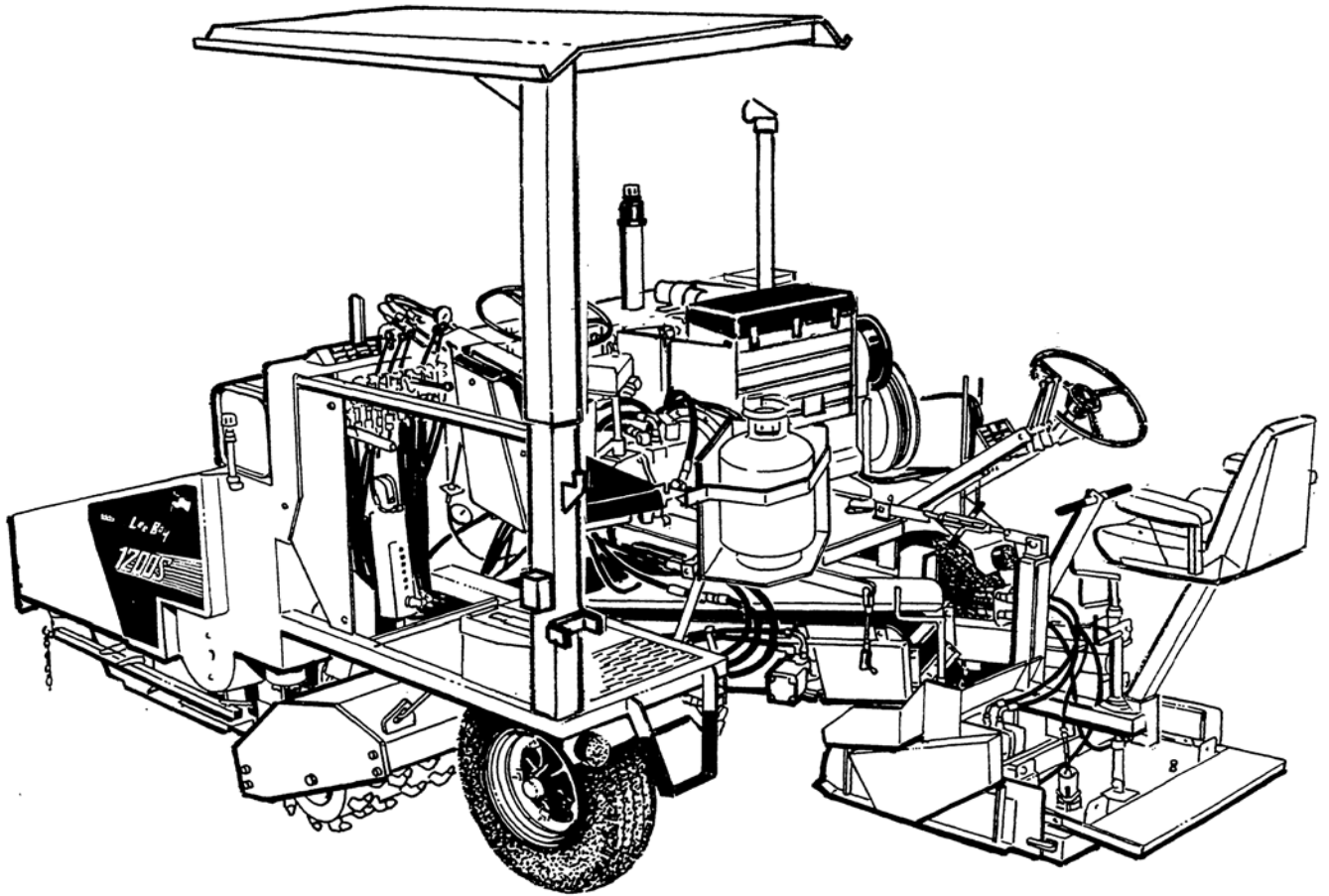


# OPERATORS AND SERVICE MANUAL



## ASPHALT MAINTAINER

**Model - 1200S**

**MANUAL NO. 1200600**

B. R. LEE INDUSTRIES, INC.  
688 NORTH HWY. 16 ● DENVER, NC 28037  
Phone (704) 483-9721 ● Fax (704) 483-5802



## USER'S REFERENCE INFORMATION

DELIVER DATE \_\_\_\_\_ EQUIPMENT SERIAL NO \_\_\_\_\_  
TYPE ENGINE \_\_\_\_\_  
DEALER'S NAME & ADDRESS \_\_\_\_\_ ENGINE NO \_\_\_\_\_  
\_\_\_\_\_  
EQUIPMENT HOURS \_\_\_\_\_

\*\*\*CALIFORNIA\*\*\*  
PROPOSITION 65 WARNING  
DIESEL ENGINE EXHAUST AND SOME OF  
ITS CONSTITUENTS ARE KNOWN TO THE  
STATE OF CALIFORNIA TO CAUSE CAN-  
CER, BIRTH DEFECTS, AND OTHER  
REPRODUCTIVE HARM.

### SAFETY NOTICE

All danger points about the Asphalt Maintainer are explained and labeled by decals to the best of our knowledge. If anyone in the field discovers anything omitted, please notify your closest dealer or factory.

### LIMITED WARRANTY

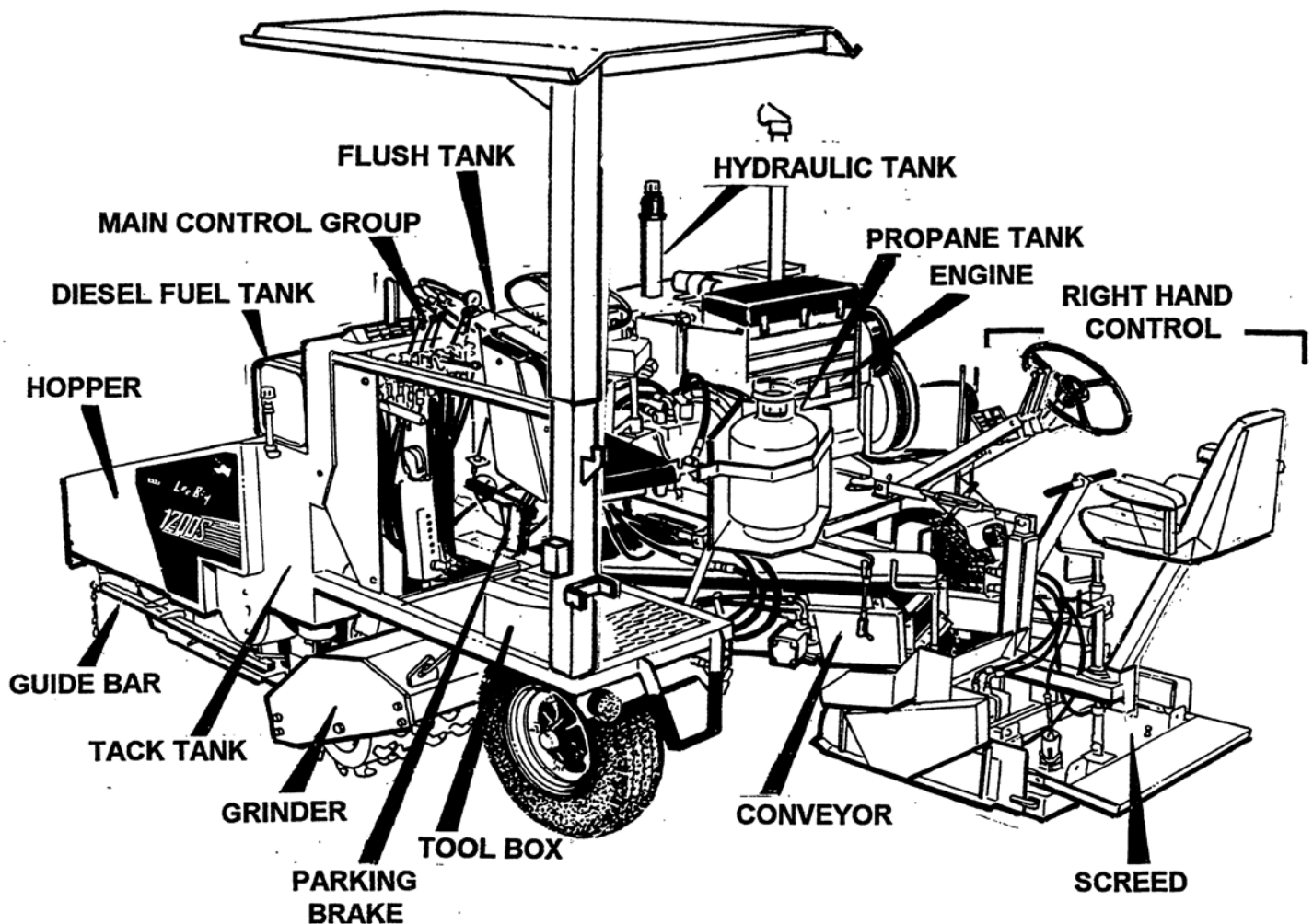
B. R. LEE INDUSTRIES, INC., warrants to the original customer that the equipment manufactured by B. R. Lee Industries, Inc., to whom said equipment is sold as new shall be free from defects in material and workmanship for 90 days after the date of first use or delivery whichever comes first.

This warranty is limited to the following: If any part of the equipment becomes defective during the period described and is brought to an authorized B. R. Lee Industries, Inc., dealer, the dealer will, without charge, repair the part which has become defective or replace it without charge. B. R. Lee Industries Inc. is not responsible for damage or malfunction resulting from misuse, failure to follow recommended maintenance requirements, alteration, accidents, or fire.

**THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE. ACCORDINGLY, ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. B. R. LEE INDUSTRIES, INC., SHALL NOT BE RESPONSIBLE FOR LOSS OF TIME, LOST PROFITS, LOST USE, OR ANY OTHER CONSEQUENTIAL DAMAGES OR ANY INCIDENTAL DAMAGE.**

B. R. Lee Industries, Inc. does not authorize any person to amend or extend this limited warranty on its behalf.

# **Lee-Boy** MAJOR COMPONENTS IDENTIFICATION CHART



## **MODEL 1200S ASPHALT MAINTAINER OPERATORS, AND MAINTENANCE**

This manual should be used with all related supplemental books, engine and transmission manuals, and parts books. Related Service Bulletins should be reviewed to provide information regarding some of the recent changes.

If any questions arise concerning this publication or others, contact your local Lee-Boy Distributor for the latest available information.

Contents of this manual are based on information in effect at the time of publication and are subject to change without notice.

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## IMPORTANT SAFETY INSTRUCTIONS

This manual provides important information to familiarize you with safer operating and maintenance procedures. Even though you may be familiar with similar equipment you MUST read and understand this manual before operating this unit.

Safety is everyone's business and is one of your primary concerns. Knowing the guidelines covered in the following paragraphs will help provide for your safety, for the safety of those around you, and for the maintainer's proper operation.

LOOK FOR THESE SYMBOLS WHICH POINT OUT ITEMS OF EXTREME IMPORTANCE TO YOU AND YOUR CO-WORKERS SAFETY. READ AND UNDERSTAND THOROUGHLY. HEED THE WARNING AND FOLLOW THE INSTRUCTIONS.

### **! DANGER !**

**YOU MUST FOLLOW ALL DANGER SAFETY NOTES. IF YOU DO NOT FOLLOW THE INSTRUCTIONS, YOUR MISTAKE MIGHT LIKELY RESULT IN VERY SERIOUS INJURY OR DEATH.**

---

### **! WARNING !**

**WARNING SAFETY NOTES MUST ALSO BE FOLLOWED. YOUR MISTAKE MIGHT RESULT IN SERIOUS INJURY TO YOURSELF OR OTHERS.**

---

### **! CAUTION !**

**CAUTION SAFETY NOTES ARE ALSO VERY IMPORTANT. THEY POINT OUT TO YOU WHERE YOUR MISTAKES COULD CAUSE PHYSICAL HARM TO YOU OR OTHERS, OR DAMAGE TO THE MACHINE.**

---

## **! CAUTION !**

DO NOT ATTEMPT TO OPERATE THE MAINTAINER UNLESS YOU ARE SEATED IN OPERATOR'S POSITION.

## **! WARNING !**

DO NOT FILL FUEL TANK WHILE ENGINE IS RUNNING.

## **! CAUTION !**

DECALS PROVIDE VALUABLE INFORMATION AND SHOULD BE REPLACED IF MISSING OR BADLY WORN.

## **! DANGER !**

DO NOT CHECK FOR HYDRAULIC LEAKS WITH YOUR HANDS. HYDRAULIC LEAKS CAN BE SEEN VISUALLY.

## **! DANGER !**

KEEP ALL UNAUTHORIZED PERSONNEL AWAY FROM WORKING MAINTAINER. THOSE PEOPLE AUTHORIZED SHOULD WEAR PROTECTIVE CLOTHING AND GLASSES.

## **! WARNING !**

DO NOT ATTEMPT TO CLEAR "FEEDER SYSTEM", TILT HOPPER AUGER OR CONVEYOR WHILE THESE COMPONENTS ARE ENGAGED.

## **! WARNING !**

WHEN OPERATING THE MAINTAINER FROM THE RIGHT SIDE, AN OBSERVER SHOULD BE IN A POSITION TO SEE BOTH THE LEFT SIDE OF THE MAINTAINER PLUS THE OPERATOR.

## **! WARNING !**

IT IS THE RESPONSIBILITY OF THE OWNER AND OPERATOR TO MAKE SURE TAIL LAMP, TURN SIGNALS AND BRAKE LIGHTS ARE WORKING.

## **! DANGER !**

DO NOT OPERATE THIS MACHINE WITH ANY CHAIN GUARD OR PROTECTIVE SHIELD REMOVED.

## **! CAUTION !**

ALWAYS CLEAR ANY DEBRIS FROM MOVING PARTS PRIOR TO OPERATING.

## **! WARNING !**

NEVER SPRAY DOWN PAVER WITH FUEL OIL WHILE BURNER IS LIT. A FIRE COULD CAUSE SERIOUS BURNS OR DEATH.

## **! CAUTION !**

IF MIX IS ALLOWED TO REMAIN IN THE MACHINE OVERNIGHT, POSSIBLE DAMAGE CAN RESULT ON START-UP THE NEXT DAY. POOR "HOUSE-KEEPING" WILL INCREASE MAINTENANCE COSTS.

## **! CAUTION !**

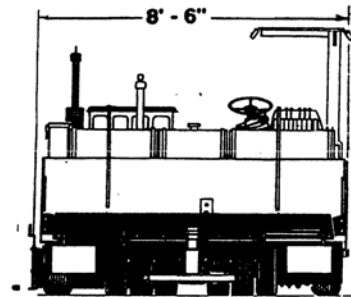
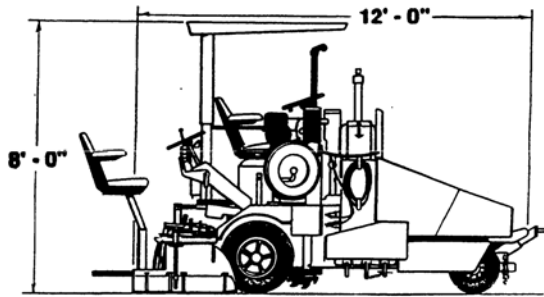
THE MAINTAINER HYDRAULIC SYSTEM REQUIRES CONTAMINANT-FREE OIL. TAKE CARE FROM CONTAMINATING OIL WHEN WORKING AROUND MAINTAINER.

# OVERVIEW



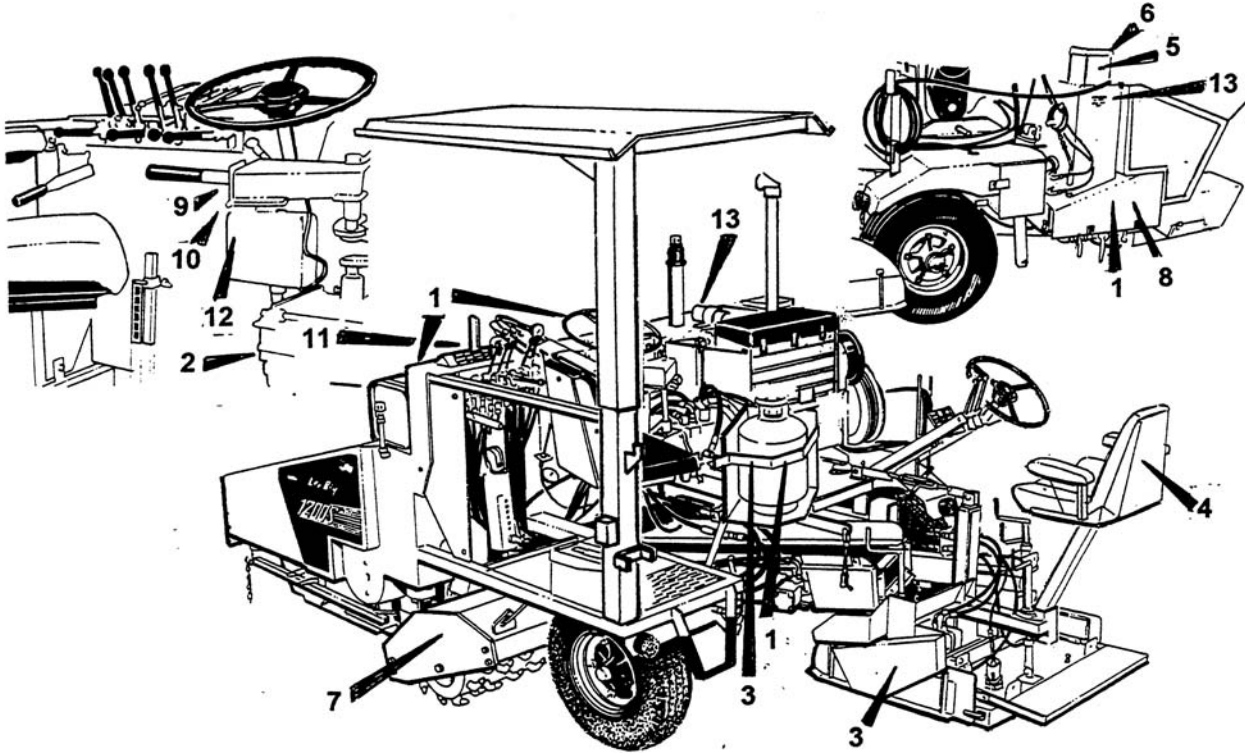
The 1200 S maintainer is designed to repair roads by grinding out damaged road surfaces and laying new asphalt. It is also capable of performing many other functions which is covered in the contents of this manual.

If you have any questions about the safe use or maintenance of the maintainer, ASK YOUR SUPERVISOR OR CONTACT ANY B. R. LEE DISTRIBUTOR. NEVER GUESS - ALWAYS CHECK.



## SPECIFICATIONS

Engine:	80 HP Air Cooled Diesel	Piggy - Back Pump:	.88 C.I disp - per rev. = 8 gals./min. At 2,600 rpm
Length:	12 ft.	Front Wheel Drive:	six pneumatic tire pulling, mounted with quick lock hubs. Power steering, oscillating front end, with disc brakes.
Width:	8 ft. 6 in.	Conveyor Belt:	5/16" thick 2 ply x 16" wide oil and heat resistant
Height:	8 ft.	Auxiliary Quick Coupling:	hydraulic powered
Weight	10,200 lbs	Rotary Grinder: 16:	Dia x 24" wide, with 51 carbide bites, driven by an orbit motor.
Tire Size:	Front - 5.70" x 8.00" (8 ply rated) Rear - 9.00: x 14.5" (12 ply rated)	Tack Distributor:	100 gal. capacity, propane heater
Fuel Tank	capacity 15 gal.	Hopper:	102" wide, capacity of 2 ½ tons
Hydraulic Reservoir	capacity 45 gal.	Towing:	operator controlled front hydraulic tongue.
Flush Tank:	capacity 6 gal.	Road Widener:	widens road from 0" to 24"
Tack Tank:	capacity 100 gal.	Shoulder Build-Up:	additional conveyor with strike off, builds shoulders up. extends 28" to 42"
Electrical System:	12 volt battery, key starter electric brakes	Right Hand Drive:	controls engine, forward/ reverse, paving and shoulder build-up.
Hydraulic Pumps:	two variable volume piston pumps connected together (1) operated drive wheels (2) operates rotary grinder 2.5 C.I. disp - per rev. = 28 gals./min. at 2,600 RPM	Operator's Area:	Left Side: Controls all functions right side and left.



1 **FLAMMABLE**  
540020

2 **P  
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3 **WARNING**  
DO NOT REMOVE WHILE  
ENGINE IS RUNNING.



5 **WARNING**  
**FLAMMABLE**  
KEEP TANK LEVEL 3" ABOVE BURNER IN USE.  
DO NOT EXCEED 150°F IN TACK TANK UNLESS OTHERWISE SPECIFIED BY MATERIAL MANUFACTURER.

6 **WARNING**  
HYDRAULIC OIL  
**ONLY**  
KEEP CLEAN  
940001-4

9 **DO NOT OPERATE OR TOW THIS MACHINE WITHOUT FIRST FULLY UNDERSTANDING THE CONTENTS OF THE OPERATORS MANUAL.**  
940011-7

10 **CALIFORNIA Proposition 65 Warning**  
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.  
940004-26

7 **WARNING**  
KEEP HANDS AND FEET CLEAR WHEN OPERATING MACHINE.

8 **TACK PUMP FLUSH**  
151060

13 **DO NOT REMOVE NOZZLE FROM SPRAY WAND WHILE ENGINE IS RUNNING**  
151060

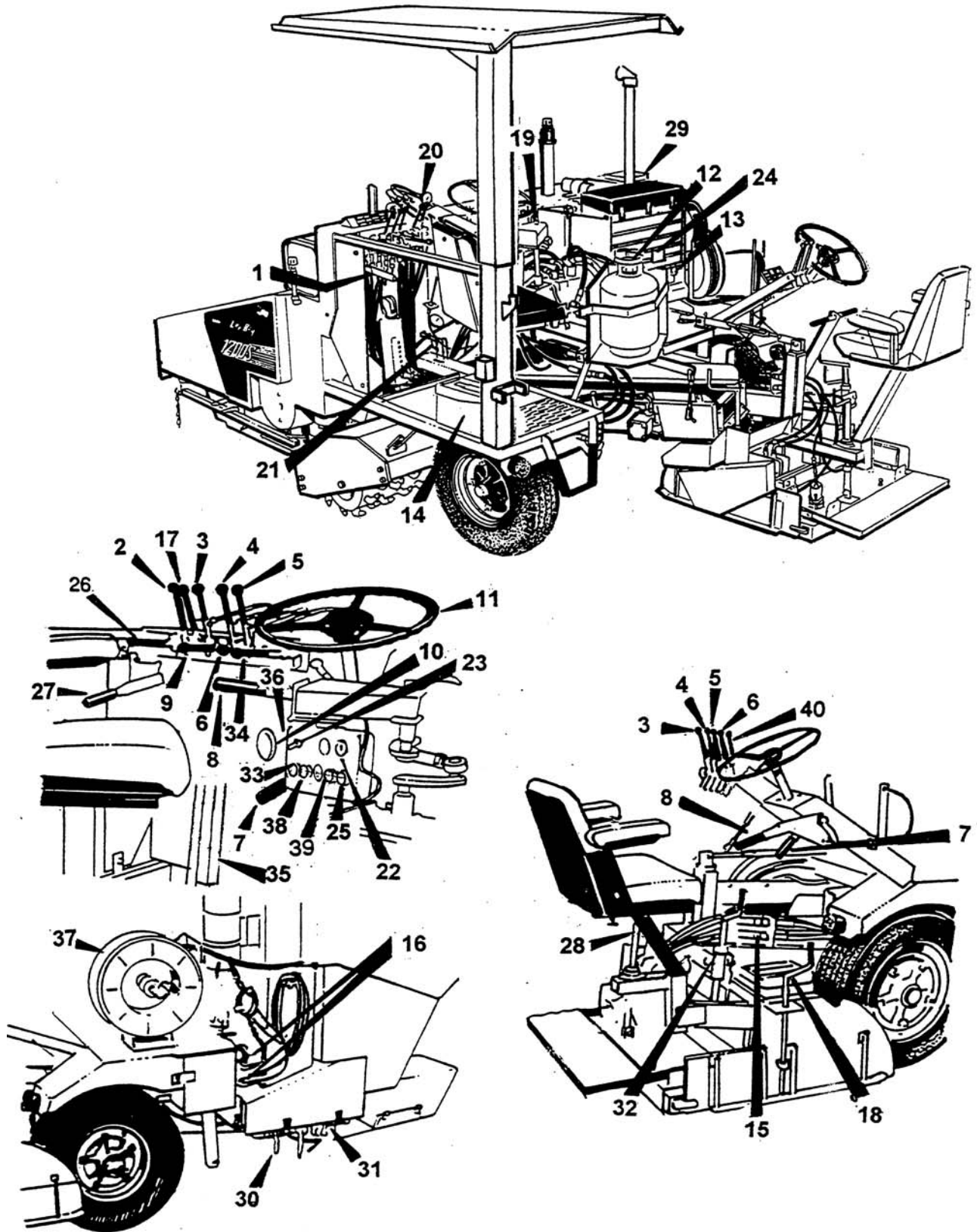
11 **DIESEL FUEL TANK KEEP CLEAN**  
540050

12 **PUSH EMERGENCY BRAKE**

### ! IMPORTANT !! IMPORTANT !

It is the responsibility of the owner to maintain a complete set of decals and make sure they are in the proper place.

If the Maintainer has been repainted, it is extremely important that all the decals referring to cautions, warning and danger be replaced in their proper locations. The illustration on this page will aid you in determining the proper locations. For additional help refer to the parts listing in the parts section of this manual and note the, description column. Under this column a description on location is provided- for each decal. If you still need more explicit instructions, contact your dealer.





## OPERATING CONTROLS AND DESCRIPTION

<b>CONTROL</b>	<b>DESCRIPTION</b>
1. Grinder Lever	Lower and raise grinder
2. Tow bar Lever	Lower and raise tow bar
3. Hopper Lever	Lower and raise hopper
4. Screed Lever	Lower and raise screed
5. Screed Lever in/out	Extend and retract screed
6. Auger Lever	Operate auger
7. Throttle Lever	Control engine speed/RPM
8. Drive Lever	Control forward/reverse movement
9. Grinder Control Lift Lever	Raise & Lower Grinder
10. Tack Temperature Gauge	Present tack temperature
11. Steering Wheel	Control direction of maintainer
12. Propane Tank Main Valve Line	Open and close propane pressure
13. Propane Tank Pressure Regulator	Regulate propane line pressure
14. Tool Box	House special tools
15. Auxiliary Coupling	Hook-up for special equipment
16. Burner Valve	Control flow of propane to tack tank
17. Grinder Angle Lever	Set grinder angle from 0 to 15 degrees
18. End Gate Handle	Set end gate to desired depth
19. Hydraulic Fluid Gauge	Indicate hydraulic fluid level
20. Hydraulic Pressure Gauge	Indicate hydraulic pressure in the system
21. Parking Brake	Keep maintainer from rolling away
22. Ignition Switch	Turn key to start and shut down
23. Switch, Electric Spray	Turn on electric fuel pump for spray down
24. Dip Stick	Indicates oil level in engine
25. Charge Indicator	Indicates battery
26. Tack Pump Valve	Turn tack motor on to pump tack
27. Grinder Control Lever	Control speed of grinder
28. Flight Screw	Controls mat thickness
29. Tack Filler Cap	
30. Tack Exit Valve	
31. Tack Flush on/off	
32. Screed Angle Lever	Sets angle of screed
33. Emergency Brake Switch	Push in will stop maintainer
34. Conveyor Lever	Operates conveyor
35. Grinder Depth Guide	Measures the grinding depth
36. Fan Switch	Operator, under canopy fan
37. Tack Hose Reel	Unreels tack hose
38. Oil Pressure Indicator	Indicate oil pressure
39. Breather Restrictor Indicator	Indicate air restriction
40. Conveyor Level	Control main conveyor

## OPERATOR MAINTENANCE CHECK

1. Check Oil
2. Battery
3. Hydraulic Fluid Level/Contamination
4. Air Filter
5. Fuel Supply
6. Chain, loose
7. Check Lubrication Requirements
8. Propane Level

## COMPONENTS CHECK

### SCREED

- A. Extend Screed.
- B. Check for wear damage and broken parts.
- C. Free all screw handles.
- D. See figure 1 and clear fire port and exhaust.
- E. Float valve handle should be in down position

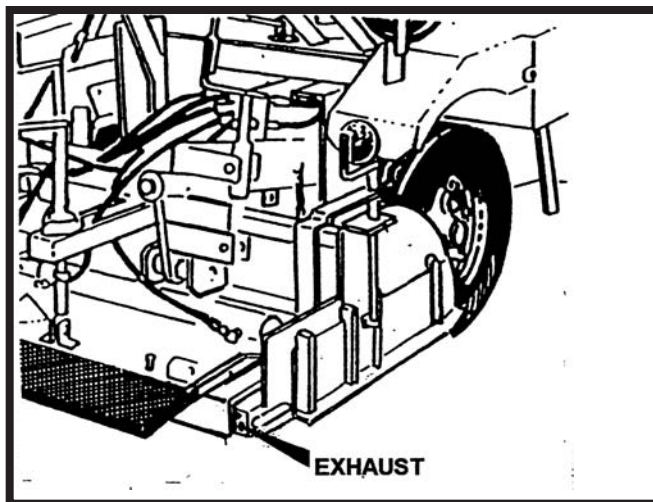


Figure 1

### ! CAUTION !

ALWAYS LIFT SCREED AT LEAST 3" OFF SURFACE AND HAVE SCREED FULLY EXTENDED BEFORE HEATING.

### ! WARNING !

ALWAYS REMOVE BURNER FROM SCREED BURNER KEEPER BEFORE LIGHTING, SEE FIGURE 2.

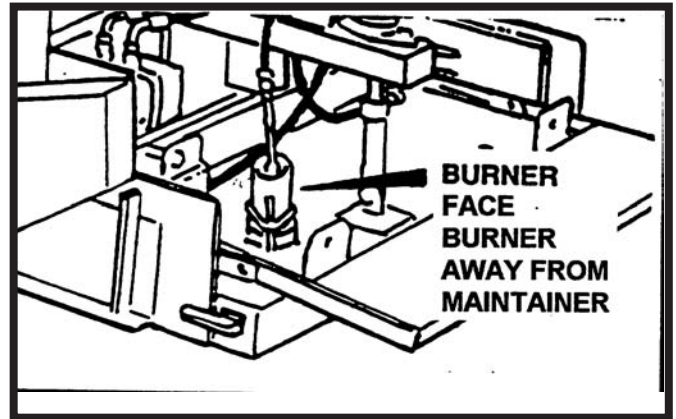


Figure 2

### GRINDER

- A. Check for excessive wear, damaged, or broken parts.
- B. Tighten all loose nuts or bolts.
- C. Cycle grinder 2 or 3 times up and down and then clear obstructions.
- D. Check and make sure grinder, when activated, moves freely through its functions.
- E. Replace carbide bits that are missing or badly worn. See figure 3.

### NOTE:

The carbide bite should be replaced when badly worn. Make sure the replacement is made before the carbide bit housing comes in contact with the surface. Use a hammer and the tool provided to remove the bits. See figure 3.

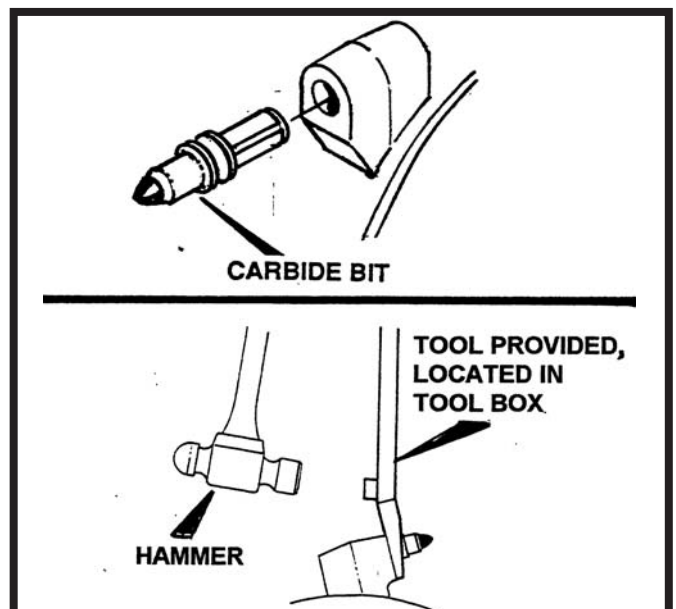


Figure 3

### TACK DISTRIBUTOR SYSTEM

- A. Heat liquid asphalt -- BEFORE LIGHTING BURNER, READ AND UNDERSTAND LIGHTING BURNER PROCEDURE AS DESCRIBED ON PAGES 12 AND 13.

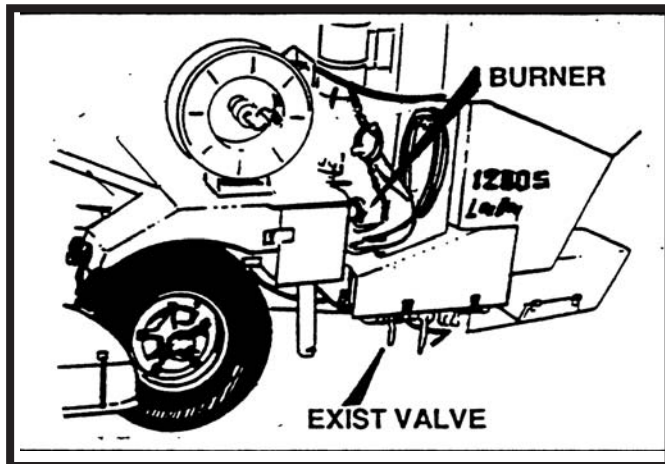


Figure 4

- B. On the control group, push the tack valve lever forward.
- C. Refer to page 6, Item 26, and position tack pump valve forward.
- D. See figure 4 and open tack exit valve.
- E. Open valve on wand and check for spray.
- F. If tack does not spray, you may have to clean the wand tip end or flush the tack spray system. Refer to Trouble Shooting Guide on page 19.
- G. After step (F), flush tack system as described on page 13 procedure 7.

### TOWING

- A. Adjust tongue to the truck pintle hook.
- B. Activate tongue valve lever, making sure tongue moves freely up and down.
- C. Make sure safety chains are in place.
- D. To allow the weight of the machine to rest on the cylinder rod lock, place the towing lever in the up position, with engine off.
- E. Make sure main tongue pin is in place

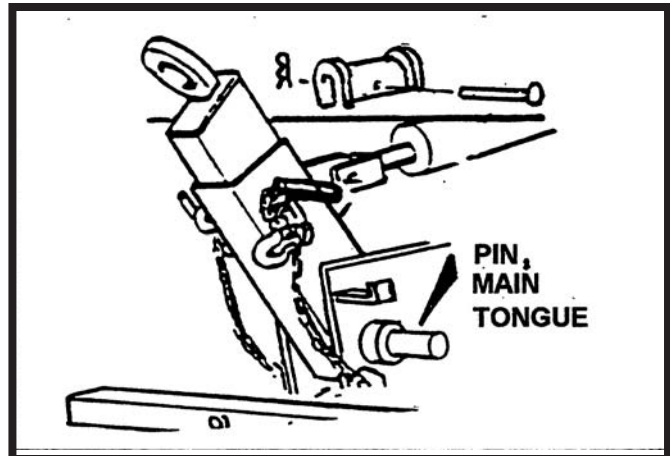


Figure 5

### AUXILIARY COUPLING

- A. Make sure dust covers are in place.

### ASPHALT CONVEYING SYSTEM

(To include hopper, auger and conveyor)

- A. Check hopper auger and conveyor for debris.
- B. Check conveyor belt for tightness. If adjustment is needed refer to page 18 for procedures.
- C. Check for excessive wear, damaged, or broken parts.
- D. Check chain on damaged or broken parts.
- E. Activate hopper valve, cycling hopper at least two times.

### GENERAL STATEMENT

The 12005 Asphalt Maintainer is a quality machine that is designed to perform several road repair functions: grinding out surface problems, laying new asphalt, widening roads, shoulder build-up, and tack distribution. These various functions make the Maintainer a unique road repair machine. It will require an operator to be well trained in all aspects of utilizing this equipment.

In conjunction with the many functions, safety in the operation of this machine will require an additional alertness. It will be the operators major consideration to safe guard those individuals working alongside with the Maintainer as it performs the required work.

If you have any questions about the safe use of the Maintainer or its general maintenance, ASK YOUR SUPERVISOR OR CONTACT ANY LEE-BOY DISTRIBUTOR. NEVER GUESS - ALWAYS CHECK.

## ENGINE START-UP

### GENERAL

The start-up of the Maintainer is a simple process. It is, however, advisable that the operator read and understand the pertinent information in the engine manual. The procedures following will help prevent undo harm to the Maintainer. See figure 6.

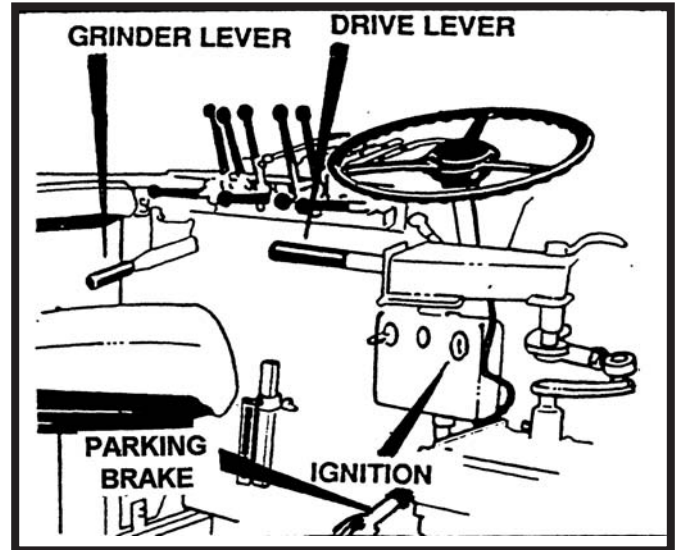


Figure 6

### **! WARNING !**

**DO NOT FILL FUEL TANK WHILE SMOKING, ENGINE IS RUNNING, OR PROPANE BURNER IS LIT.**

1. Before start-up, a pre-start check should be made.
  - A. Check conveyor system, hopper, auger and conveyor for debris.
  - B. Check oil and fuel levels.
  - C. Check hydraulic fluid level.
  - D. Check tack tank fluid level.
  - E. Check flush tank fluid level.
2. Position the forward/reverse lever into neutral. Place locking flap up against forward/reverse lever housing.
3. Open throttle about 1/3.
4. Turn key to start.
5. After start-up allow engine and hydraulic oil to warm before activating components and before moving the Maintainer.

### ENGINE SHUT-DOWN

1. Lower and stow all components.
2. Turn key off.
3. Pull up park brake.

### **! DANGER !**

**ALWAYS TURN ENGINE OFF BEFORE PERFORMING ANY MAINTENANCE.**

### **! DANGER !**

**ALWAYS SCOTCH/CHOCK MAINTAINER WHEN PARKED ON INCLINE.**

### COLD WEATHER START-UP

It is important that the operator follow all proper procedures especially concerning safe operation of starting the maintainer in cold weather. Refer to ENGINE START-UP and read through to procedure 3. Now refer to procedure 1, below.

1. Open throttle to full.
2. Turn key to start. After engine starts, throttle back - make sure the engine does not over rev. (RPM's too high may possibly do engine damage.)
3. After start-up, allow engine and hydraulic oil to warm up before activating components. This is extremely important in cold weather.

### GENERAL

The Maintainer is easy to drive. Its major control in driving forward/rearward is a single lever and is pushed or pulled from neutral. Steering is just a matter of turning in the direction of the desired travel. Stopping is accomplished by returning forward/rearward lever to the neutral position. Follow the procedures below to assist in a more thorough understanding of the Maintainer.

1. Before making a movement with the Maintainer, raise and stow all movable components.
2. Open throttle to 1/3.
3. Move forward/rearward lever in the direction of intended travel.
4. Increase throttle setting as needed when traveling or maneuvering.
5. Steer in direction desired.
6. Stop by returning forward/rearward lever to the neutral position.
7. Emergency stops can be made by engaging emergency switch on control panel. The most likely reason for applying the emergency brake is if hydraulic failure has occurred - permitting Maintainer to roll free.
8. There is also a parking brake. The brake is used when leaving the Maintainer unattended. The brake provides back pressure on the Maintainer to prevent it from lunging forward during grinding operations.

### GRINDING OPERATION

#### GENERAL

Lowered and raised hydraulically, the grinder can cut a 24 inch wide strip 1 1/2 inches deep to a maximum of 3 inches deep. Having 51 replaceable carbide bits, it can cut angles 0 degrees to 15 degrees. A leveling wheel is used to maintain a consistent depth.

1. Align the Maintainer to the repair site in as straight a line as possible. This should eliminate excessive alignment changes. It requires about 10 feet to correct the grinding path. See figure 7.

2. Place leveling wheel into operation. See figure 8.
  - A. Use the grinder as a jack. Push grinder valve handle down until rear wheel is lifted off ground.
  - B. Remove hitch pin and locking pin. Allow leveling wheel to come down to the surface.
  - C. Replace locking pin and hitch pin in hole closest to leveling wheel support bracket.
  - D. Pull up on grinder valve handle, returning grinder to the up position. The leveling wheel will now support the Maintainer at this position.

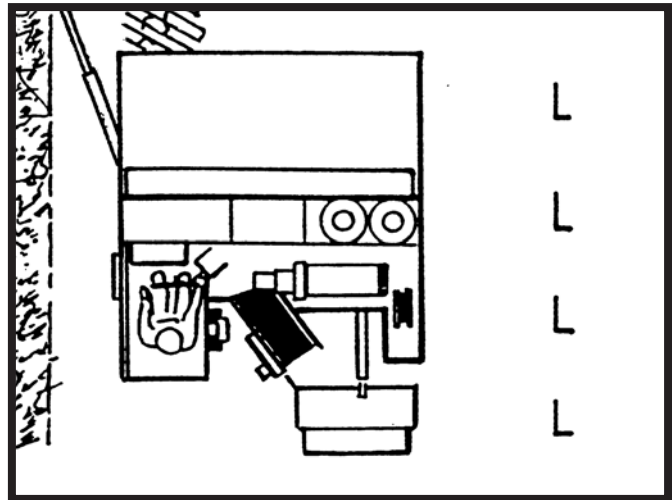


Figure 7

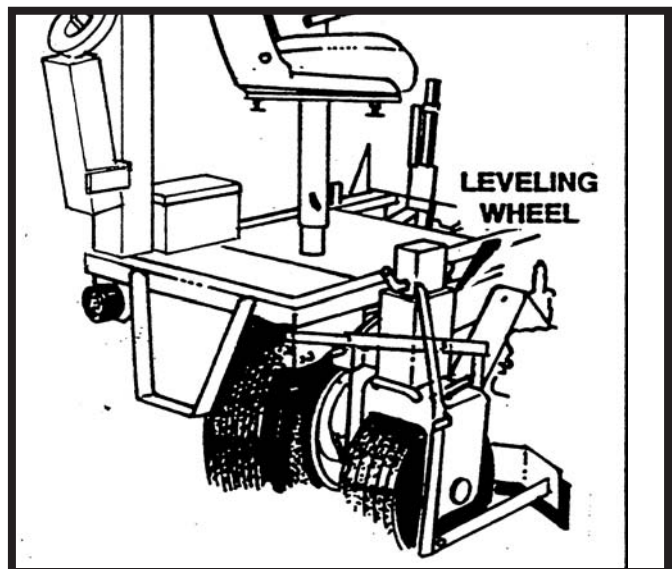


Figure 8

3. Lower the grinder to the asphalt using the angle correction valve handle. Activate valve handle until grinder bits are parallel to the asphalt surface. Starting with low RPM's, lower the grinder to the asphalt. At this point, the grinder bits should strike and scratch the asphalt uniformly across the length of the grinder. If necessary, make final adjustments before boring in.
4. Set depth gauge to "0".
5. Increase the grinder RPM's to full. Lower the grinder slowly, controlling the downward pressure on the grinder so it won't bog down. Grind to desired depth.
6. Push the forward/rearward control lever, adjusting forward pressure so that the grinder will cut at its best rate and not put a heavy load on the Maintainer and grinder.
7. To maintain long, straight cuts, use the guide bar.
8. ANGLE CUT; the angle of the grinder is set with the angle control valve handle. Set the desired angle before making cut. Follow same procedures as to making level cuts.

## TACK DISTRIBUTOR

### GENERAL

The tack distributor has a 100 gallon capacity. Utilizing a 26 foot hose with wand nozzle, a hydraulic powered pump provides the pressure to distribute a fine, even spray.

1. Open the main valve on the propane tank. Set the pressure regulator valve so pressure gauge reads between 5 to 8 pounds. See figure 9.
2. Remove the lighter from its holder. See figure 10.

### ! CAUTION !

**NEVER USE A FIBER BASE TACK. IT CAN DAMAGE THE PUMP AND CLOG THE SPRAY TIP.**

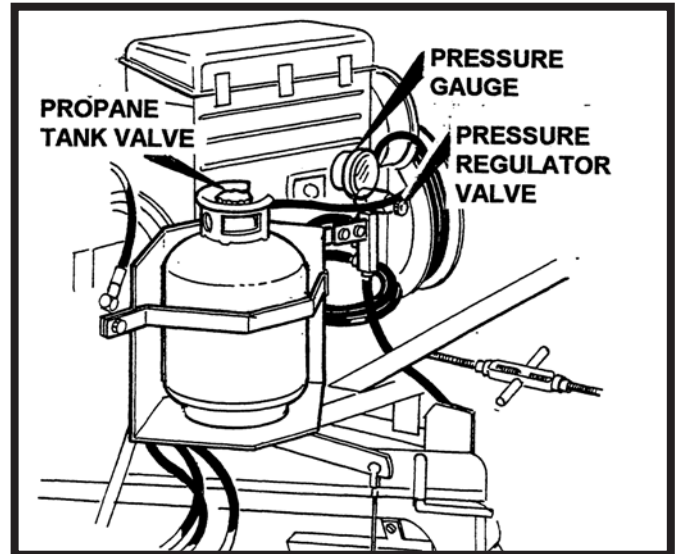


Figure 9

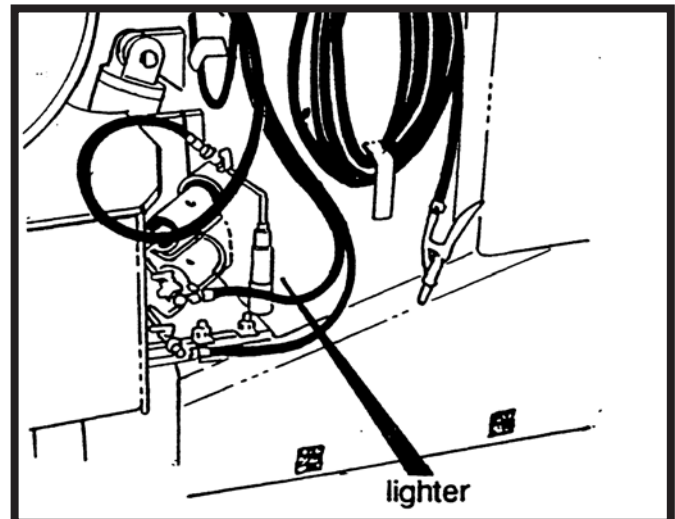


Figure 10

3. Light the lighter. Hold the lighter to the bottom tack burner. Open valve on this burner. When burner is lit, light upper burner.

### ! WARNING !

**NEVER LIGHT TACK BURNER WITH ANYTHING BUT THE LIGHTER PROVIDED WITH THE MAINTAINER.**

### ! WARNING !

**ALWAYS MAINTAIN TACK LEVEL AT LEAST 3 INCHES ABOVE BURNER. A LOWER LEVEL WILL CAUSE EXCESSIVE HEAT AND POSSIBLE FIRE.**

4. Return lighter to holder. Heat the tack to manufacturer recommended temperature. **DO NOT EXCEED 200 DEGREES FAHRENHEIT.**
5. After the tack is heated to recommended temperature, the tack is ready to spray. (Control the tack temperature with burner valve turn "off" and "on", relighting when necessary.)  
Lift the tack handle up and open the exit valve handle. See figure 11.
6. Uncoil the desired amount of hose and begin spraying.
7. **TO FLUSH;** turn exit valve handle to off. Hold open, flush valve handle while also holding wand spray handle open. Continue this until flush appears. Close valves and stow wand back in the stow position. See figure 12.

**IMPORTANT;** After flushing make sure flush valve returns to the off position. Also, when flushing system, follow state and federal laws in dispensing of excess flush and tack.

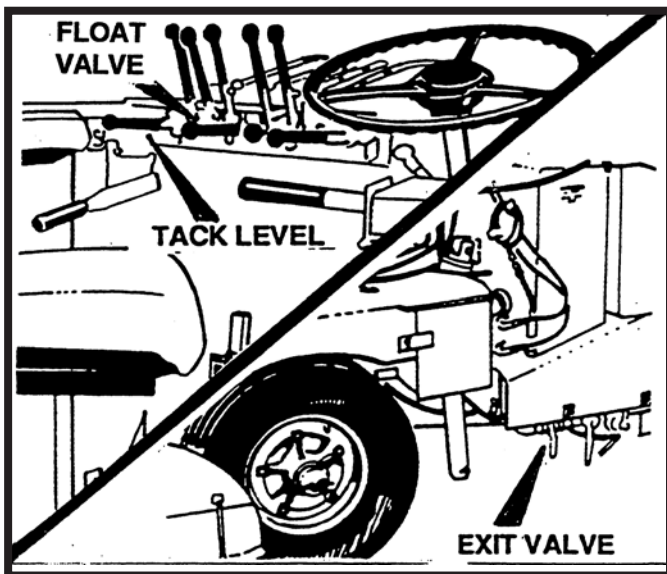


Figure 11

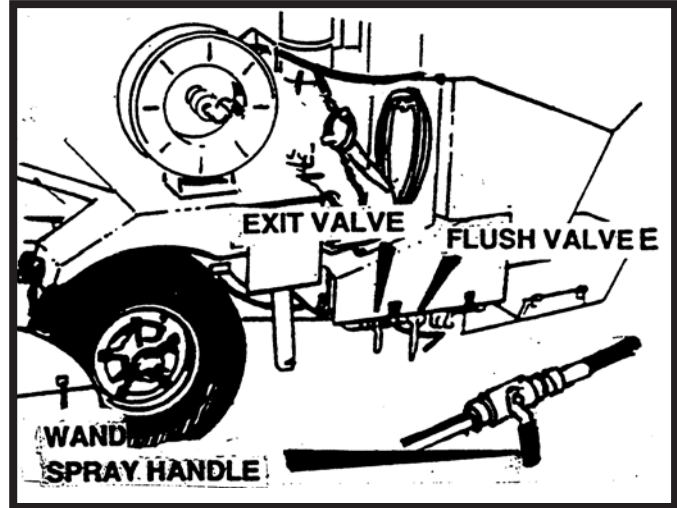


Figure 12

## SCREED OPERATION

### GENERAL

Propane heated, floating screed that telescopes from 38 inches to 62 inches. The screed can lay asphalt up to 100 feet per minute. An optional road widening pan will provide a 0 inch to 24 inches road widening capability.

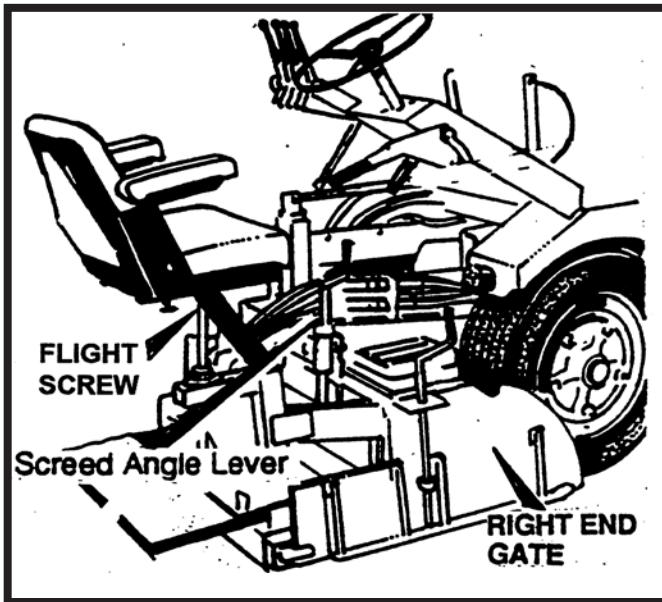
1. Spray flush on areas of screed, screed auger and conveyor that are most likely to come in contact with asphalt.
2. Raise the screed two to three inches off surface and extend screed extension all the way out.
3. Turn the main valve on the propane tank. Open and set regulator valve so pressure reads 5 to 8 pounds.

### **! WARNING !**

**NEVER LIGHT TACK BURNER WITH ANYTHING BUT THE LIGHTER PROVIDED WITH THE MAINTAINER.**

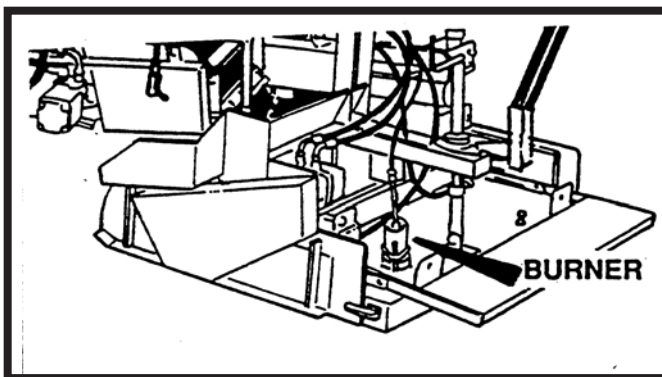
4. Pull burner from screed, point away from screed and Maintainer. With hand held striker, light the burner. Insert burner back into holder. Check exhaust port in extension of screed. If heat is not exiting, clear a blockage in the screed. See figure 14.

- Align the screed to the paving site. Extend the screed to the width desired. Set guide if needed.



**Figure 13**

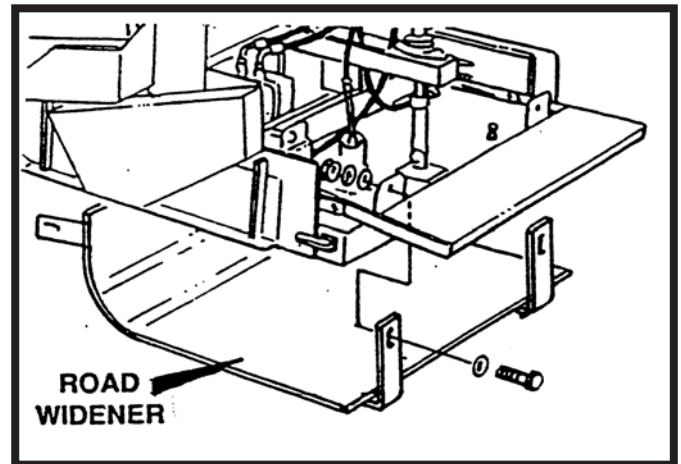
- Lower the screed to surface with float valve. Use angle control handle and set screed angle. Make sure screed float control valve remains in float while screed is paving. This allows the screed to float over the surface. See figure 13.
- Set end gates to the surface allowing the screed to set above surface establishing asphalt thickness. The right end gate may also provide a clean vertical edge.



**Figure 14**

The road widener is a shield that attaches to the bottom of the screed and will prevent asphalt from passing underneath that portion of the screed. The asphalt will pass under the

extended portion of the screed only. See figure 15.



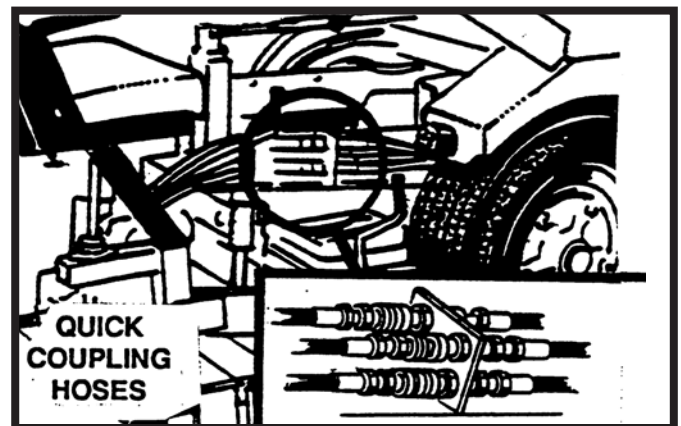
**Figure 15**

## AUXILIARY COUPLING

### GENERAL

When a job may require a special power tool such as a chain saw or jack hammer, these tools can be attached to the hydraulic lines as shown in figure 16. Just uncouple the two top lines and couple in your special tool. (Make sure the coupling device is kept clean as possible.)

- Remove dirt cover, check ends of couplings for any contaminating particles both on the Maintainer coupling and the auxiliary tool coupling.
- Read instructions provided with your specialized tool before coupling to outlet.
- Pull the control valve to open. The auxiliary tool is now activated and should be ready to use.



**Figure 16**

### TOWING INSTRUCTIONS

#### GENERAL

The towing tongue of the Maintainer is hydraulically adjusted to fit most towing trucks. To be self-trailer, the Maintainer may be towed up to 45 m.p.h.. Follow the procedures below to assist in making a hook-up.

#### **! WARNING !**

**NEVER EXCEED 45 M.P.H. WHILE TOWING THE MAINTAINER. USE LOWER SPEED WHEN TOWING OVER SLIPPERY OR UNEVEN SURFACE.**

#### **! DANGER !**

**BEFORE TOWING THE MAINTAINER, CHECK STATE, FEDERAL, AND LOCAL LAWS.**

1. Position Maintainer behind truck.
2. Raise grinder, screed, retract screed extension. Secure screed with the two safety chains. See figure 17. Place variable volume drive lever in neutral.



Figure 17

3. Remove tongue extension from stow position and place it into main housing of tongue.
4. Adjust tongue to fit hook on truck. After tongue is hooked to truck, raise the front wheels a minimum of 5 inches off the surface.

5. Place cylinder rod lock onto cylinder rod. Secure with pin and hitch pin. See figure 18.
6. Secure Maintainer to truck with safety chains.
7. Lower tongue until the Maintainer weight rests on the safety pin.

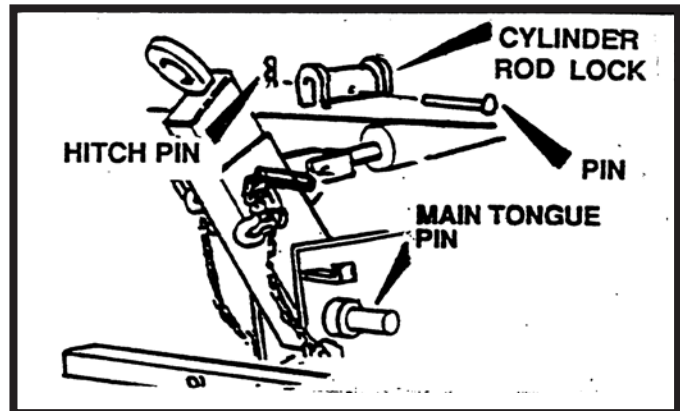


Figure 18

### SHOULDER BUILD-UP ATTACHMENT OPERATIONS

#### GENERAL

The shoulder build-up is designed in two major components, conveyor extension and strike off. It is used to widen roads; build-up shoulders and back fill utility cuts. Attaching the shoulder build-up will first require the removal of the screed. Follow the procedures below to complete this assembly.

1. Lower screed to the surface
2. Disconnect the four quick coupling hydraulic hoses on the screed and draw bar. See figure 19.

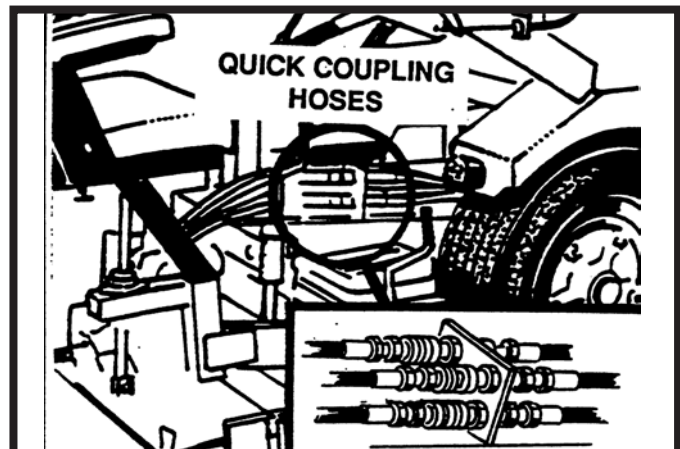


Figure 19

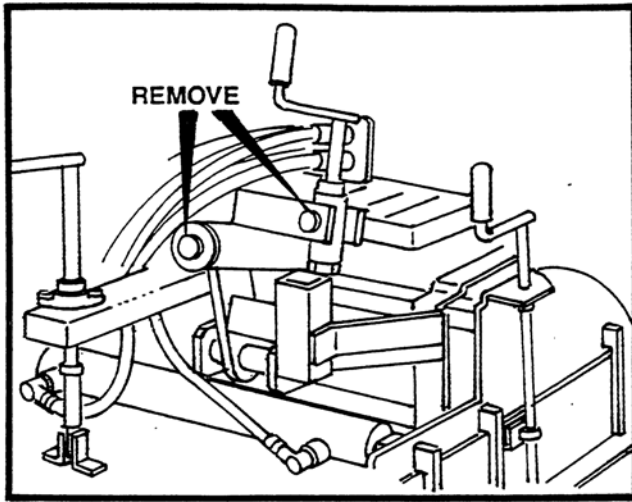


FIGURE 20

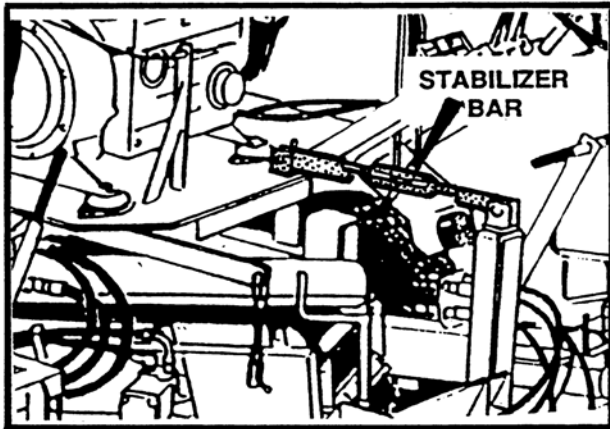


FIGURE 21

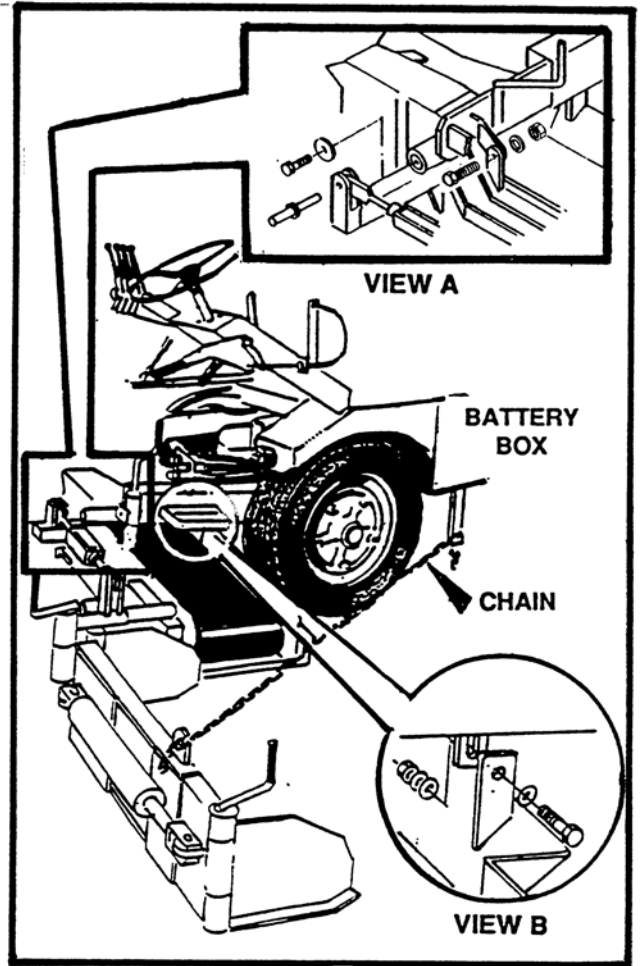


FIGURE 23

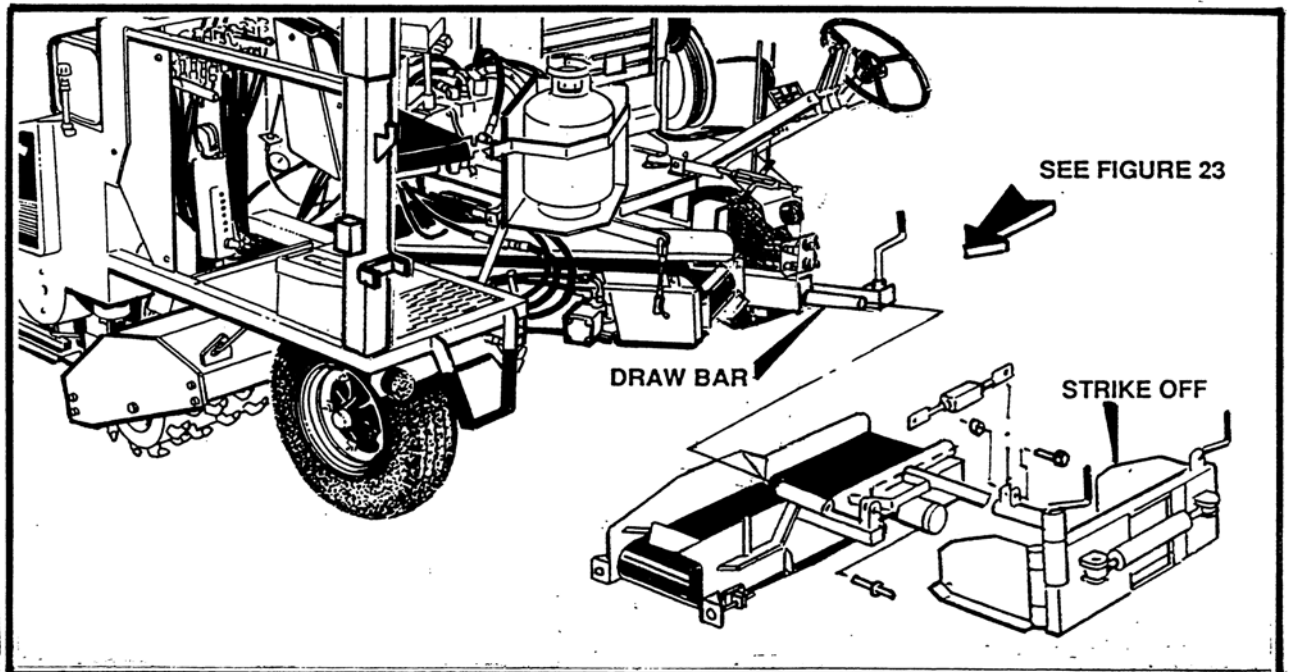


FIGURE 22

### PROCEDURES FOR USING SHOULDER BUILD-UP

1. Find working angle of strike off assembly and attach the chain to the bracket under battery box. See figure 23.
2. Extend strike off with the screed extension valve to desired width, from 28 to 40 inches.
3. Raise or lower strike off with screed valve lever to obtain desired material thickness.
4. Start the material flow using the screed auger valve lever. See figure 24.
5. To maintain a straight line while dispensing road build up material, use the guide bar.

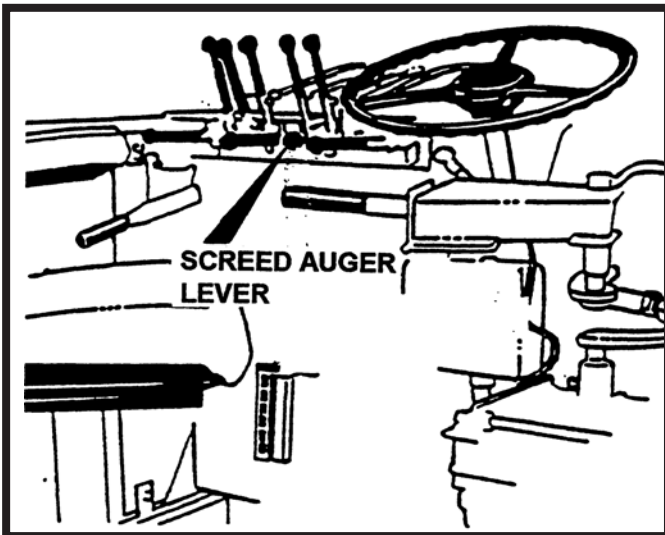


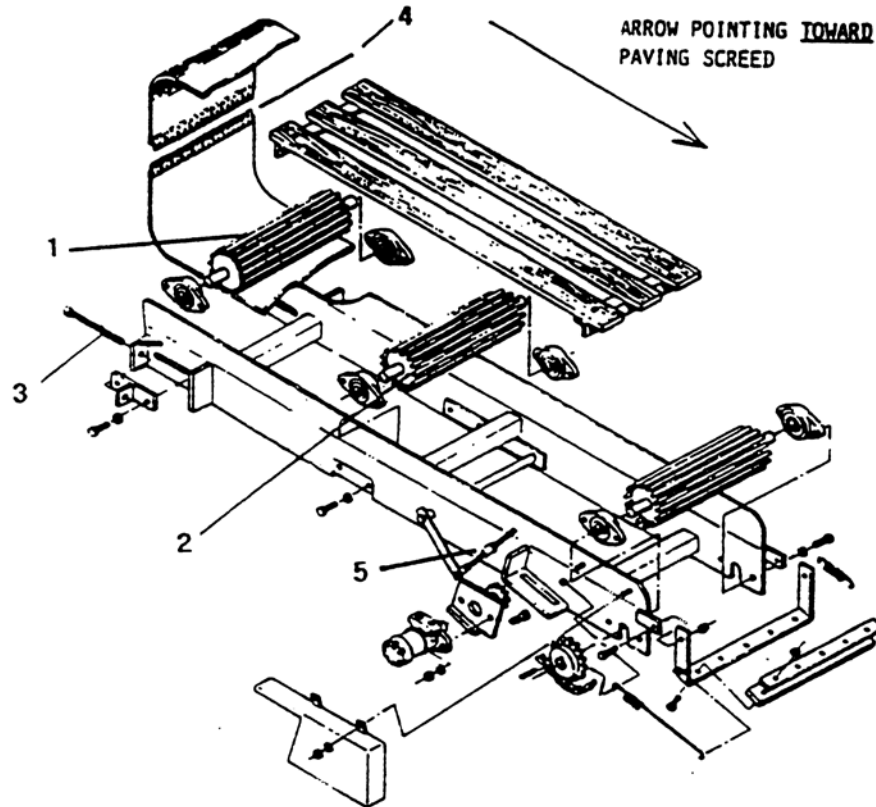
Figure 24

### RIGHT HAND CONTROL OPERATIONS

#### GENERAL

The right hand control is used to operate the Maintainer when making shoulder build-up or laying mat with screed. With the operator attention diverted to right hand procedures only it is extremely necessary to have an observer to left side of the Maintainer to check for unsafe conditions ahead.

1. Start engine from primary operator position.
2. Lower neutral position safety door after start-up.
3. The various valve levers are well marked and the direction of lever movement is indicated.



## REMOVAL AND REPLACING CONVEYOR BELT

### GENERAL

The changing of the conveyor belt is a quick process that can easily be done. Follow the procedures below to assist in this process.

1. Rotate the belt until the belt lacing is to the bottom of the conveyor.
2. Refer to item 3, and screw front idler adjustment screw in, until front idler (item 1) can slide completely back.
3. Adjust center roller, item 2, so it is in the full "up" position. This will provide room for the new belt.
4. Remove the lacing pin, item 4, from the belt and remove belt from conveyor.
5. Clean the conveyor frame and all attaching parts thoroughly with fuel oil.
6. Wash debris and residue off with water spray.
7. Slip the new belt around the rear roller and extend the upper part of the belt over the front roller. The arrow on the belt should point toward the screed.
8. Pull both ends of the belt together under the conveyor and attach with new lacing pin.
9. Adjust front roller adjustment screws, item 3, until conveyor belt is tight and rolls freely without rubbing either side of conveyor frame.
10. Additional adjustments will be necessary to keep proper tension on belt. This is done by screwing down on the center adjustment screw, item 5.

### NOTE:

After each days use, lightly spray the edge of conveyor frame with fuel oil and check conveyor belt tension.



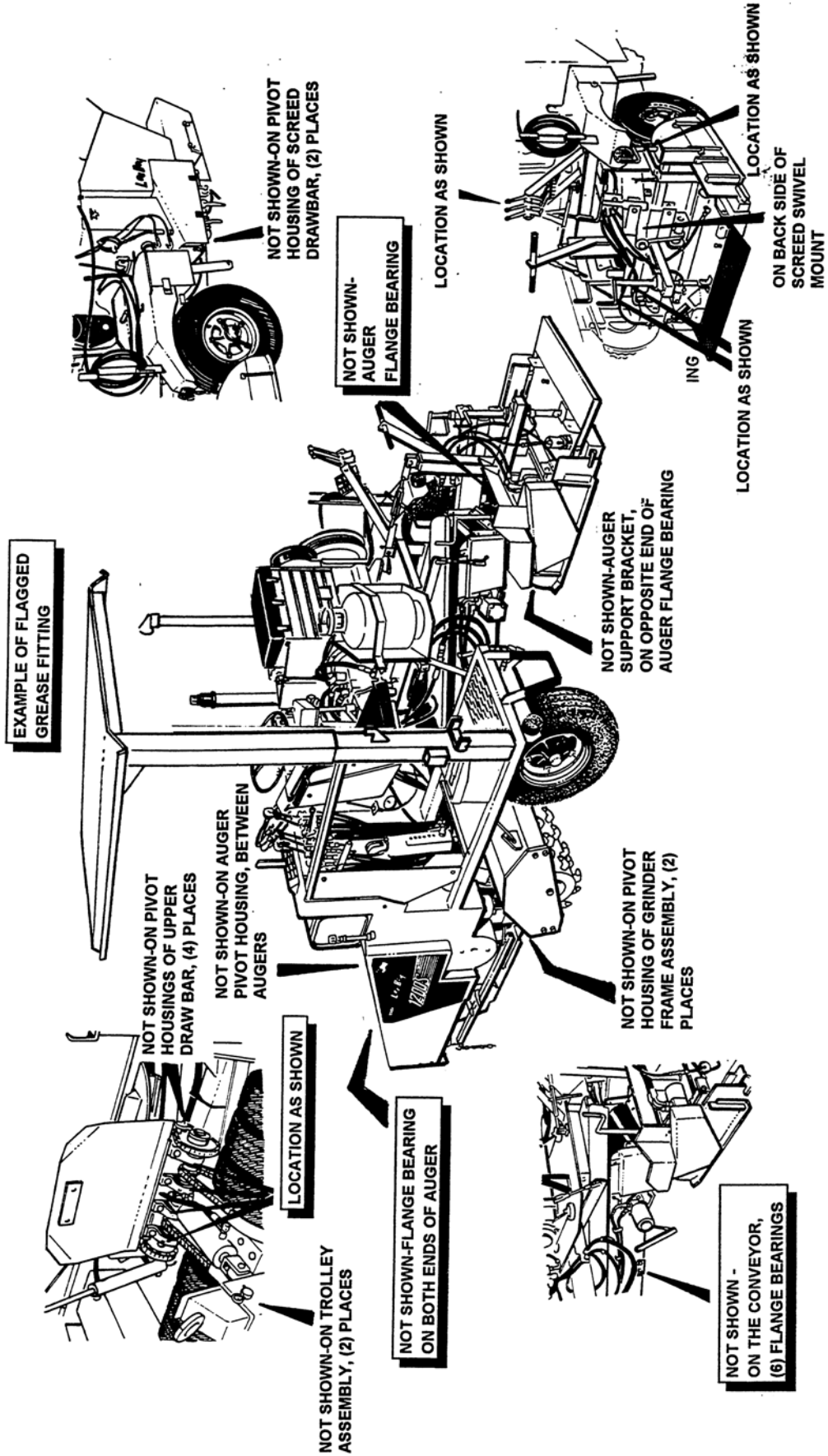
## TROUBLE SHOOTING GUIDE 1200S

PROBLEM	PROBABLE CAUSE	SOLUTION
Engine will not run start	<ul style="list-style-type: none"><li>● Out of fuel</li><li>● Clogged filter</li><li>● Blower belt broke</li><li>● Fuel solenoid coil burned out</li></ul>	<ul style="list-style-type: none"><li>● Refuel</li><li>● Change</li><li>● Replace</li><li>● Replace</li></ul>
Engine will not turn over	<ul style="list-style-type: none"><li>● Neutral safety lock on drive handle in down position</li><li>● Safety switch went bad</li><li>● Loose battery cables</li><li>● Bad battery</li><li>● Starter went bad</li></ul>	<ul style="list-style-type: none"><li>● Close</li><li>● Replace</li><li>● Clean and tighten</li><li>● Replace</li><li>● Replace</li></ul>
Machine will not move	<ul style="list-style-type: none"><li>● Out of oil</li><li>● Chain broke</li><li>● Pump wore out</li></ul>	<ul style="list-style-type: none"><li>● Refill</li><li>● Replace</li><li>● Replace</li></ul>
Machine will not steer	<ul style="list-style-type: none"><li>● If pressure gauge reads 2000 or more, a restriction is in the system.</li><li>● Out of hydraulic oil</li></ul>	<ul style="list-style-type: none"><li>● Clear the restriction</li><li>● Refill</li></ul>
Auger will not turn	<ul style="list-style-type: none"><li>● Broken chain</li><li>● Debris caught in auger</li></ul>	<ul style="list-style-type: none"><li>● Replace</li><li>● Clean out</li></ul>
Screed extension hanging up, will not extend	<ul style="list-style-type: none"><li>● Asphalt inside the box</li><li>● Quick disconnect- unhooked</li></ul>	<ul style="list-style-type: none"><li>● Clean out</li><li>● Reconnect</li></ul>
Hydraulic oil coming out of the tank	<ul style="list-style-type: none"><li>● Too full</li><li>● Pump sucking air</li></ul>	<ul style="list-style-type: none"><li>● Drain</li><li>● Check suction hose</li></ul>
Grinder will not turn	<ul style="list-style-type: none"><li>● No oil pressure</li><li>● Cable not working</li></ul>	<ul style="list-style-type: none"><li>● Check pump</li><li>● Replace</li></ul>
Conveyor will not feed	<ul style="list-style-type: none"><li>● Belt too loose</li><li>● Oil inside belt</li></ul>	<ul style="list-style-type: none"><li>● Tighten belt</li><li>● Clean the belt</li></ul>
Tack will not spray	<ul style="list-style-type: none"><li>● Pump turning in wrong direction</li><li>● Bad coupling</li><li>● Bad key</li><li>● Suction line clogged</li><li>● Tip clogged</li><li>● Pump worn out</li><li>● Relief on pressure line stuck open</li></ul>	<ul style="list-style-type: none"><li>● Reverse handle or hoses</li><li>● Replace</li><li>● Replace</li><li>● Heat or clean</li><li>● Clean out</li><li>● Replace or rebuild</li><li>● Clean</li></ul>

# GREASE FITTING LOCATING CHART



The grease fittings which are flagged, (identified by box drawn around call out) are on sealed bearings and should only be lubricated once each year with hand pump grease gun. Grease fittings not flagged should be lubricated every 40 hours of operations. In either case, lubricate with **SHELL AVANIA EP** grease 2 or equivalent.



## 100 HOUR OR MONTHLY ROUTINE MAINTENANCE

1. Replace dry type air filter, if equipped. Refer to your engine operators manual for service information.
2. Change engine oil. To assure complete removal of contaminants in the oil, perform the oil change while engine is warm.

After draining used oil, clean and reinstall drain plug and fill crankcase to the full mark with manufacturer's recommended oil. Change oil filter at every other oil change. (15W - 40 Motor Oil)

3. Change oil in oil bath oil cleaner and rinse filter element in clean fuel to remove impurities. Also, perform any other engine preventative maintenance as described in the engine operators manual.

Check and adjust all chains, as required

## 250 HOUR OR QUARTERLY ROUTINE MAINTENANCE

Perform the 250 hour preventative maintenance as described in the engine operators manual.

1. Change filter charge between valve and pump.

## 500 HOUR OR SEMI-ANNUAL ROUTINE MAINTENANCE

1. All bearings are sealed and have grease fittings. These should be greased with multi-purpose grease using a handgun. Be careful to avoid blowing the seals.
2. Perform the 500 hour preventative maintenance as described in the engine operators manual.

## 1000 HOUR OR ANNUAL ROUTINE MAINTENANCE

1. Drain and flush the hydraulic tanks. A drain plug is located on the bottom of each tank for this purpose. The recommended hydraulic oil is 210 F SAE 10W-40 grade 46 oil.
2. Perform the 1000 hour preventative maintenance As described in the engine operators manual.
3. Anytime the maintainer has been repainted or the decals have been removed, damaged or can't be read, a new set of decals should be ordered and re-installed for safe operation.

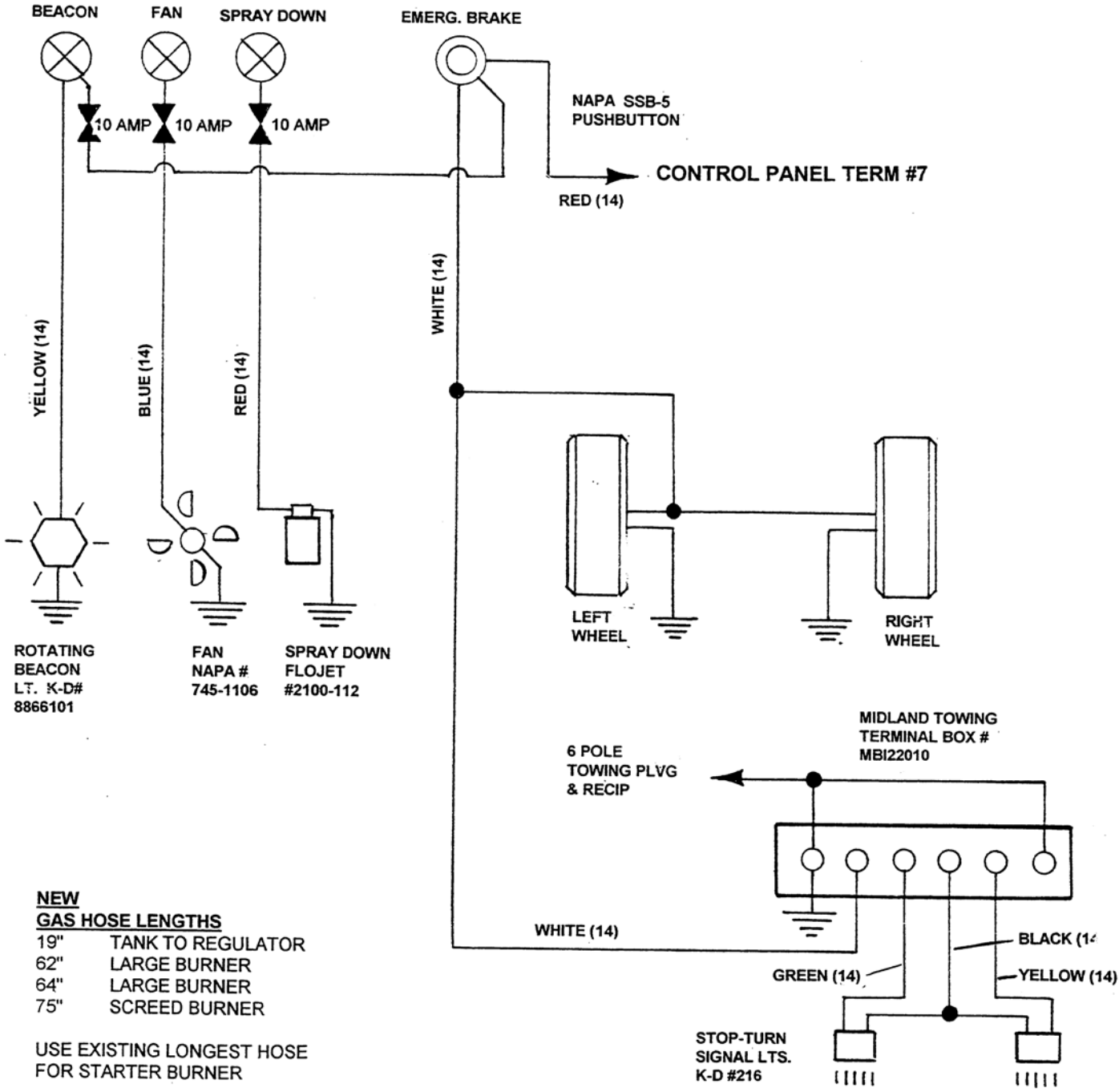
### NOTE

When performing any routine maintenance such as 50, 100, 250, 500 and 1000 hour, always include previous routine maintenance hours to the higher hourly schedule.

### IMPORTANT NOTICE!!

The changing of oil and cleaning of the paver should only be done in a designated area that can contain the oil and chemicals involved in any maintenance requirement. These by products should be discarded in accordance with environmental regulations.

# 1200S MAINTAINER WIRING DIAGRAM

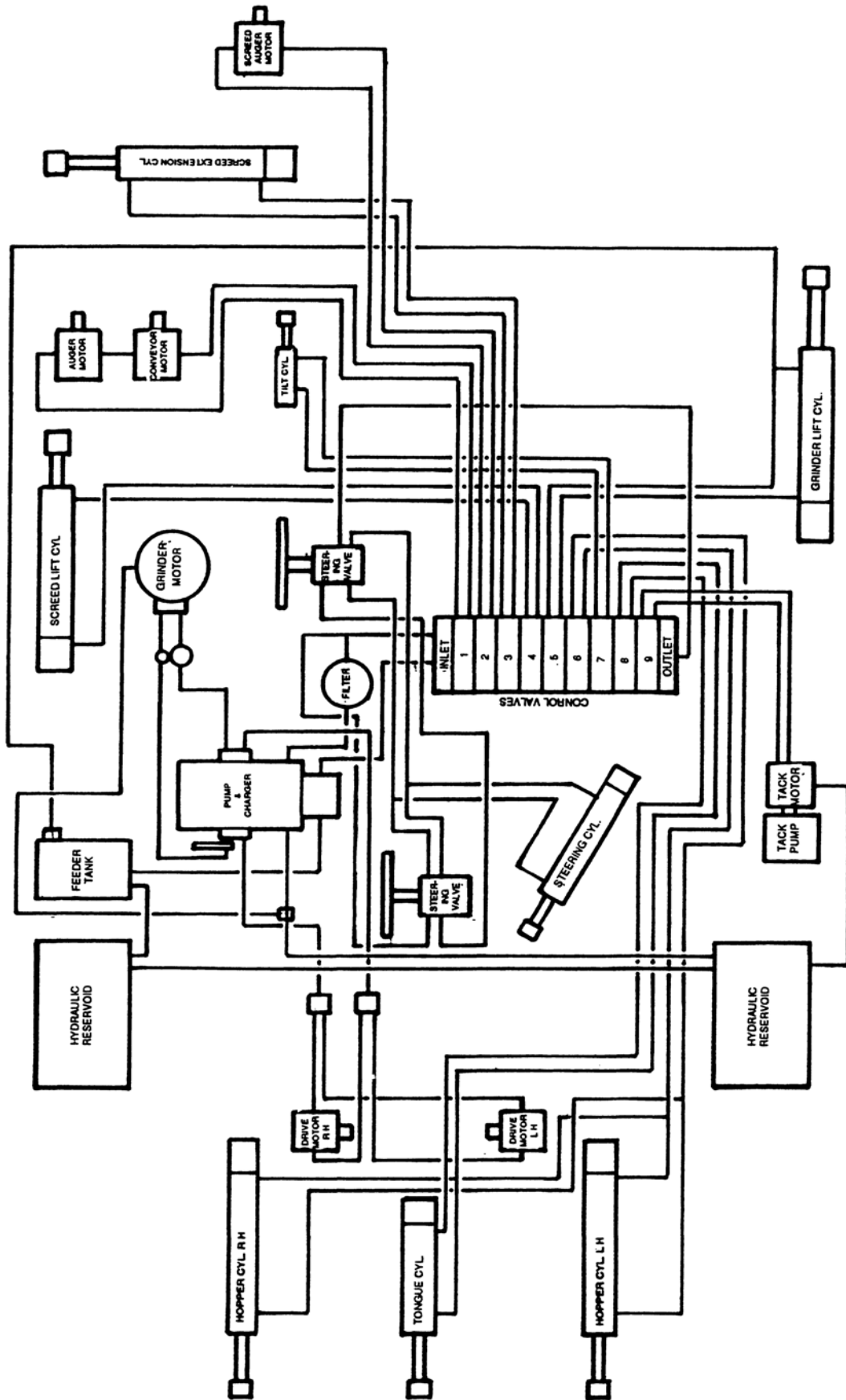


**NEW**

**GAS HOSE LENGTHS**

- 19" TANK TO REGULATOR
- 62" LARGE BURNER
- 64" LARGE BURNER
- 75" SCREED BURNER

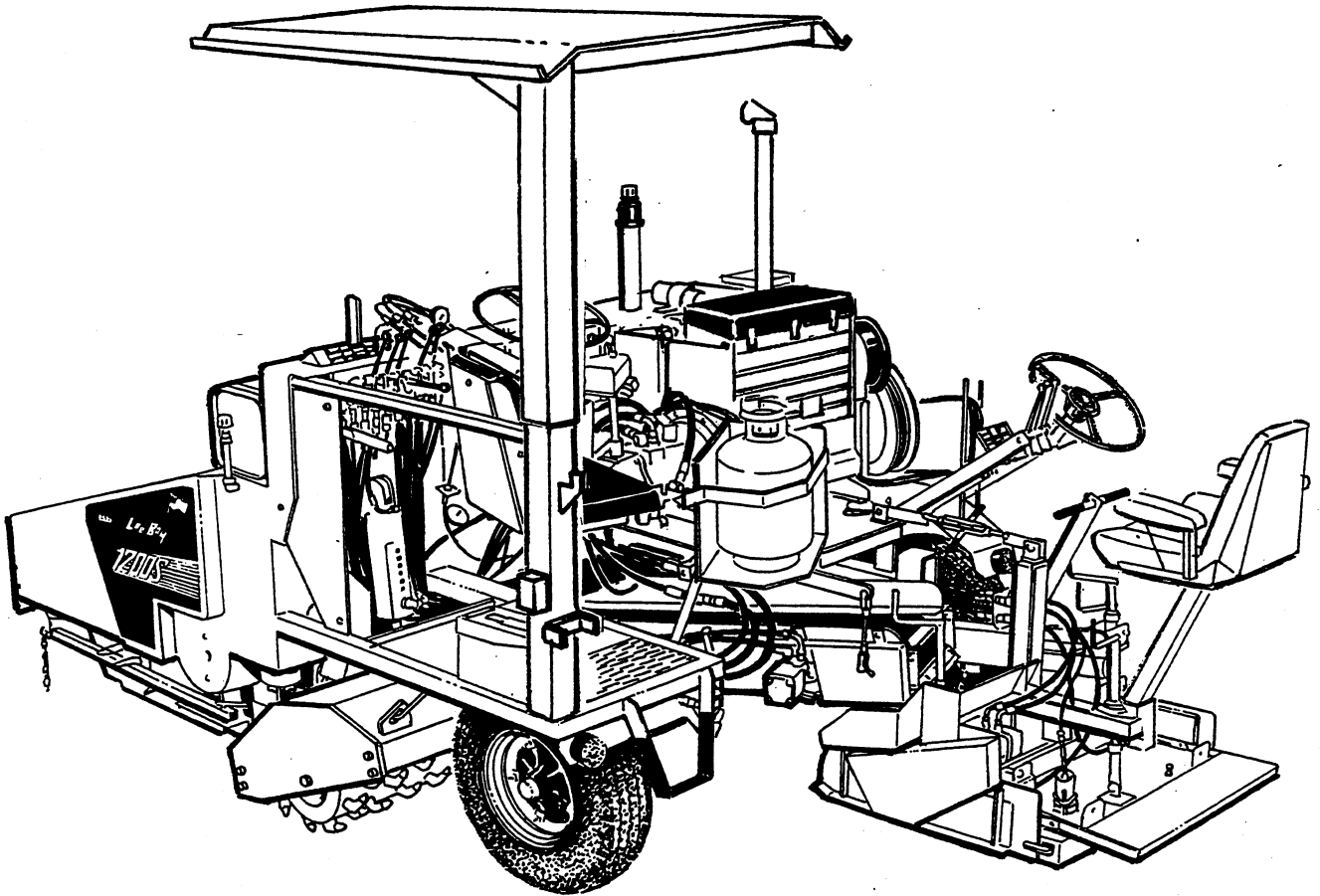
USE EXISTING LONGEST HOSE FOR STARTER BURNER



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**LeeBoy**

# **PARTS MANUAL**



## **ASPHALT MAINTAINER Model - 1200S MANUAL NO. 1200600**

**B. R. LEE INDUSTRIES, INC.  
688 NORTH HWY. 16 ● DENVER, NC 28037  
Phone (704) 483-9721 ● Fax (704) 483-5802**

## USER'S REFERENCE INFORMATION

DELIVER DATE \_\_\_\_\_

EQUIPMENT SERIAL NO \_\_\_\_\_

TYPE ENGINE \_\_\_\_\_

ENGINE NO \_\_\_\_\_

DEALER'S NAME & ADDRESS

\_\_\_\_\_

EQUIPMENT HOURS \_\_\_\_\_

\_\_\_\_\_

**\*\*\*CALIFORNIA\*\*\***

### **Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

\_\_\_\_\_

\_\_\_\_\_

## SAFETY NOTICE

All danger points about the Asphalt Maintainer are explained and labeled by decals to the best of our knowledge. If anyone in the field discovers anything omitted, please notify your closest dealer or factory.

## LIMITED WARRANTY

B. R. LEE INDUSTRIES, INC., warrants to the original customer that the equipment manufactured by B. R. Lee Industries, Inc., to whom said equipment is sold as new shall be free from defects in material and workmanship for 90 days after the date of first use or delivery whichever comes first.

This warranty is limited to the following: If any part of the equipment becomes defective during the period described and is brought to an authorized B. R. Lee Industries, Inc., dealer, the dealer will, without charge, repair the part which has become defective or replace it without charge. B. R. Lee Industries Inc. is not responsible for damage or malfunction resulting from misuse, failure to follow recommended maintenance requirements, alteration, accidents, or fire.

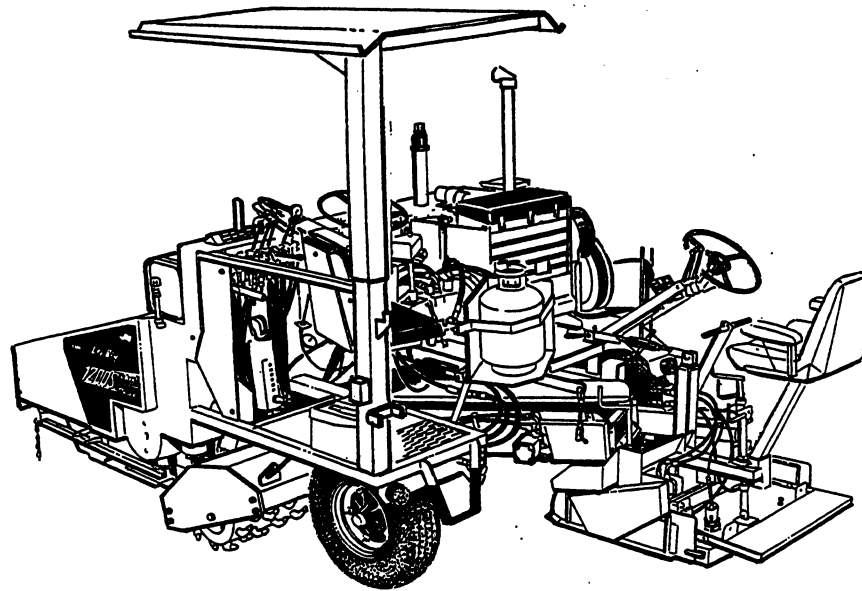
**THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE. ACCORDINGLY, ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. B. R. LEE INDUSTRIES, INC., SHALL NOT BE RESPONSIBLE FOR LOSS OF TIME, LOST PROFITS, LOST USE, OR ANY OTHER CONSEQUENTIAL DAMAGES OR ANY INCIDENTAL DAMAGE.**

B. R. Lee Industries, Inc. does not authorize any person to amend or extend this limited warranty on its behalf.

# **ASPHALT MAINTAINER**

## **Model - 1200S**

**MANUAL NO. 1200600**



### **TABLE OF CONTENTS**

THIS MANUAL IS ARRANGED FOR THE EASY IDENTIFICATION OF PARTS. A LIST OF ILLUSTRATIONS APPEARS IN THE FRONT OF THIS MANUAL. A HYDRAULIC DIAGRAM HAS BEEN ADDED AT THE BACK OF THIS MANUAL FOR YOUR CONVENIENCE.

### **CHANGES**

WHEN CHANGES ARE MADE TO THE MACHINE, REVISED PAGES FOR THIS MANUAL WILL BE ISSUED. THESE PAGES MUST BE INSERTED INTO YOUR MANUAL AS SOON AS YOU RECEIVED ITEM. FAILURE TO KEEP YOUR MANUAL UP TO DATE WILL RESULT IN CONFUSION AND MAY CAUSE YOU TO ORDER THE WRONG PARTS.

### **ORDERS**

ORDERS SHOULD SPECIFY CORRECT PART NUMBERS, A FULL DESCRIPTION, QUANTITY REQUIRED, MACHINE AND ENGINE MODEL AND SERIAL NUMBERS, METHOD OF SHIPMENT AND SHIPPING ADDRESS.

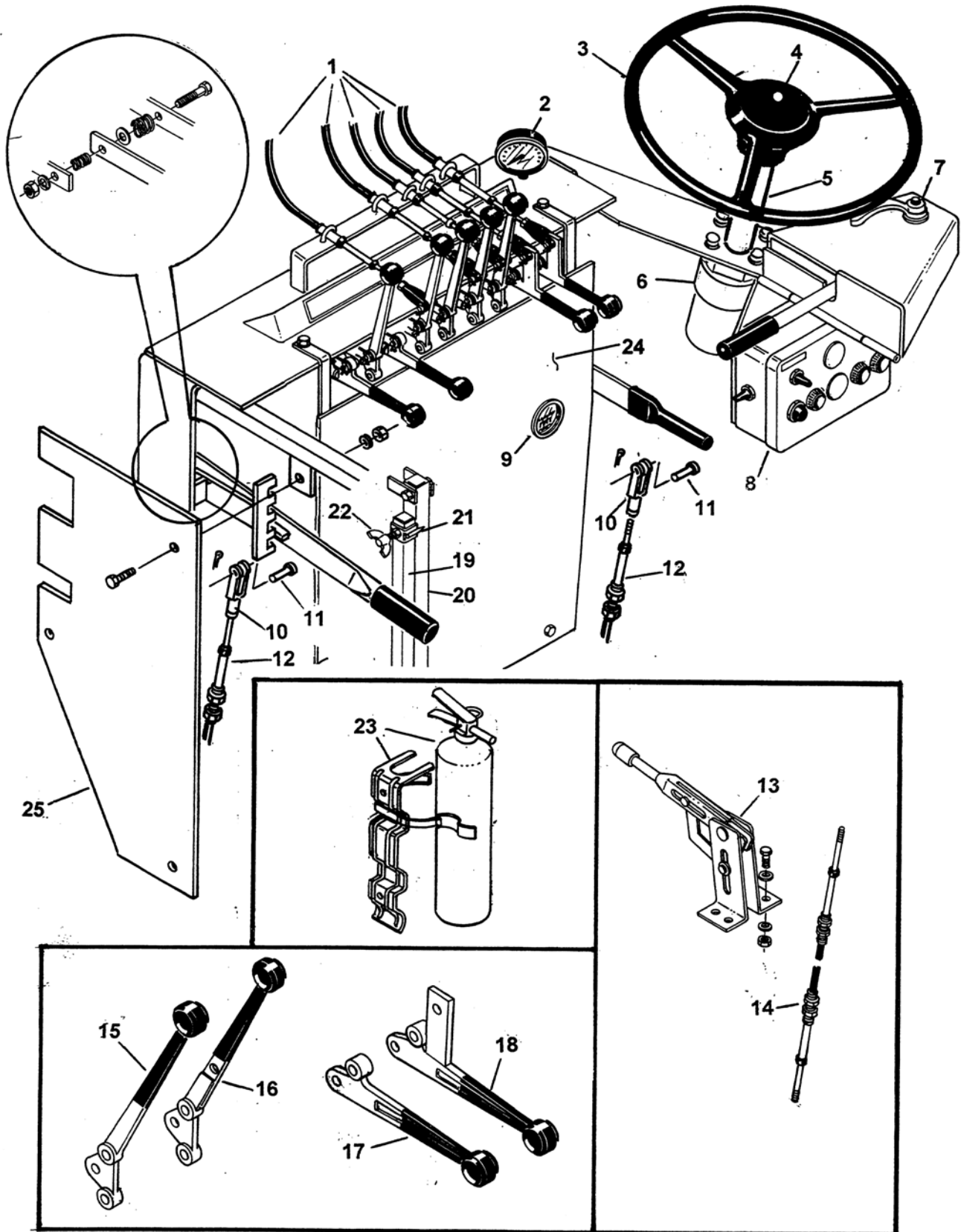
### **RIGHT-HAND AND LEFT-HAND SIDES**

THE TERMS RIGHT-HAND AND LEFT-HAND (ABBREVIATED TO R.H. AND L.H.) AS USED IN THIS MANUAL INDICATE THE RIGHT AND LEFT SIDES OF THE MACHINE AS VIEWED FROM THE OPERATOR'S PLATFORM FOR PROPER OPERATION OF THE MACHINE.

# LIST OF ILLUSTRATIONS – 1200S



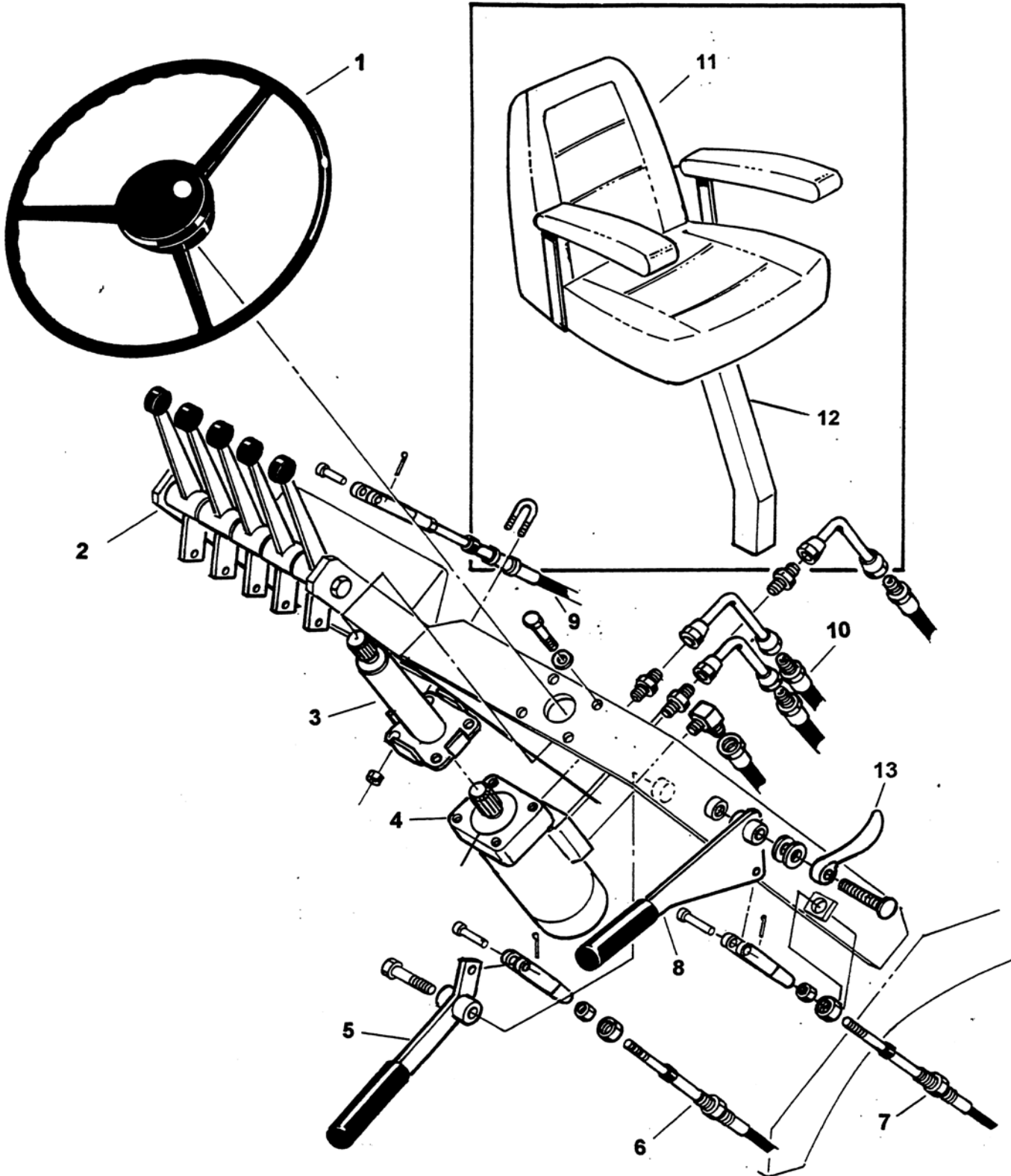
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# CONTROL GROUP, L.H. OPERATION



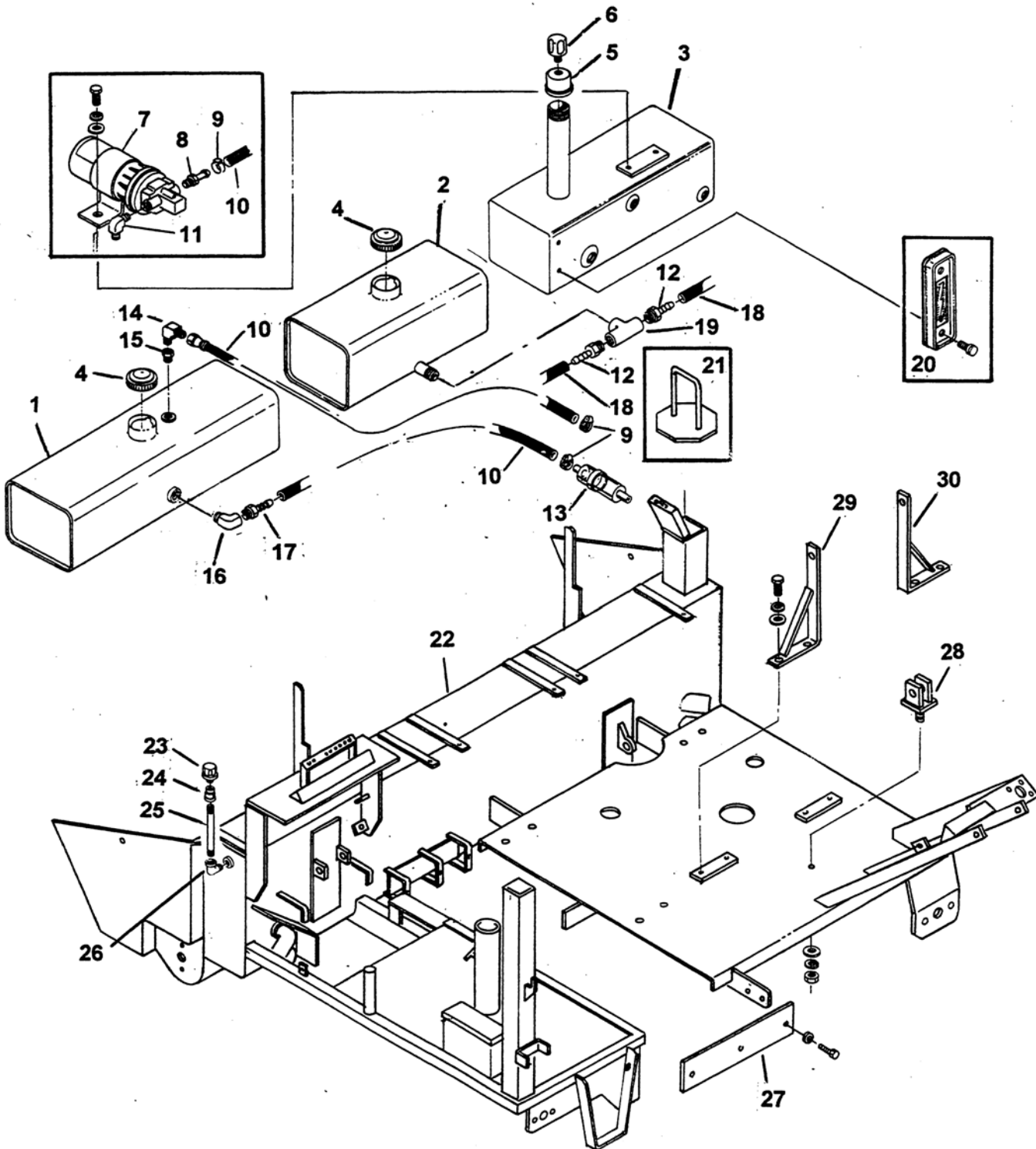
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	350020	CABLE, R. H. CONTROL	1
2	500020	GAUGE, HYD. OIL PRESS.	1
3	300030	STEERING WHEEL	1
4	300010	CAP, STEERING WHEEL	1
5	300040	STEERING COLUMN	1
6	300050	HYD MOTOR, POWER STEERING	1
7	300060	HANDLE NUT	1
8	320425	INSTRUMENT PANEL BOX (CPT) (for further breakdown see page }	1
9	500190	HOUR METER	1
10	350050	CLEVIS, CABLE	1
11	350080	CLEVIS PIN, 1/4" X 7/8"	1
12	350010	CABLE, THROTTLE/GRINDER CONTROL	1
13	140060	LEVER, PARKING BRAKE	1
14	350070	CABLE, PARKING BRAKE	1
15	910060	VALVE LEVER, VERTICAL	1
16	350090	VALVE LEVER, VERTICAL WLHOLE	1
17	910070	VALVE LEVER, HORIZONTAL	1
18	350100	VALVE LEVER, HORIZONTAL WLCABLE BRKT	1
19	220601	TUBE, GRINDER DEPTH GAUGE	1
20	220611	GUIDE ARM, GRINDER DEPTH GAUGE	1
21	220621	INDICATOR, GRINDER DEPTH GAUGE	1
22	920070	WIND BOLT, 3/8" X 1" NC	1
23	360050	FIRE EXTINGUISHER, WLBRACKET	1
24	360061	SHIELD, HYD. HOSE	1
25	360071	SHIELD, SIDE	1



# RIGHT HAND CONTROL ASSEMBLY



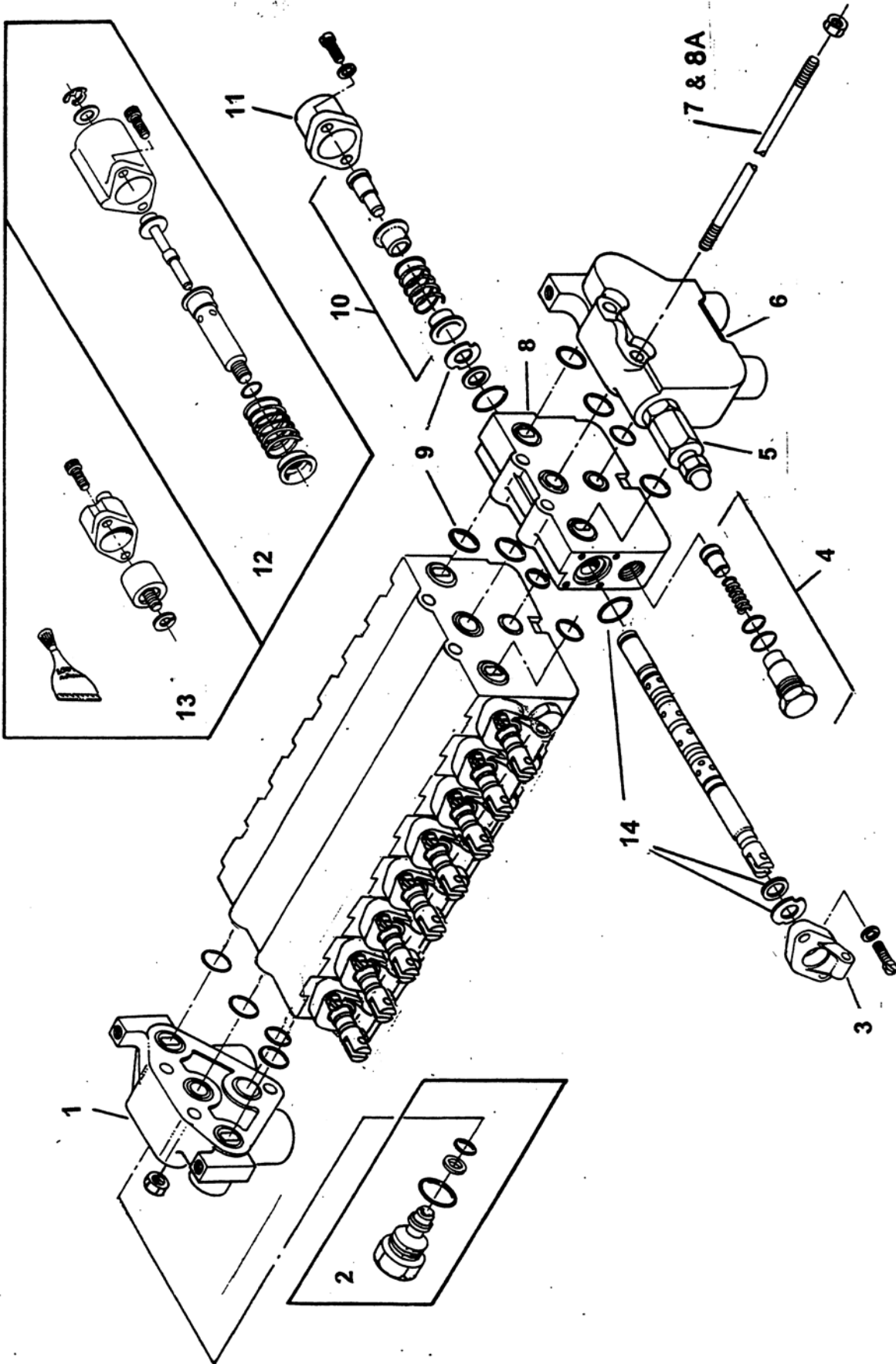
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	300030	STEERING WHEEL	1
2	370020	FRAME ASSEMBLY, (R.H.) CONTROL	1
3	300040	STEERING COLUMN	1
4	300050	STEERING MOTOR	1
5	370050	LEVER, THROTTLE CONTROL	1
6	370060	CABLE, THROTTLE	1
7	350010	CABLE, FWD. & REV. (R.H.) CONTROL	1
8	370080	LEVER, FWD. & REV.	1
9	350020	CABLE, CONTROL	1
10	370110	HOSE PACKAGE, (R.H.) CONTROL	1
11	360010	SEAT ASSEMBLY	1
12	370100	SEAT SUPPORT POST	1
13	300060	HANDLE NUT	1



# MAINFRAME, FUEL, TACK AND HYDRAULIC OIL TANKS



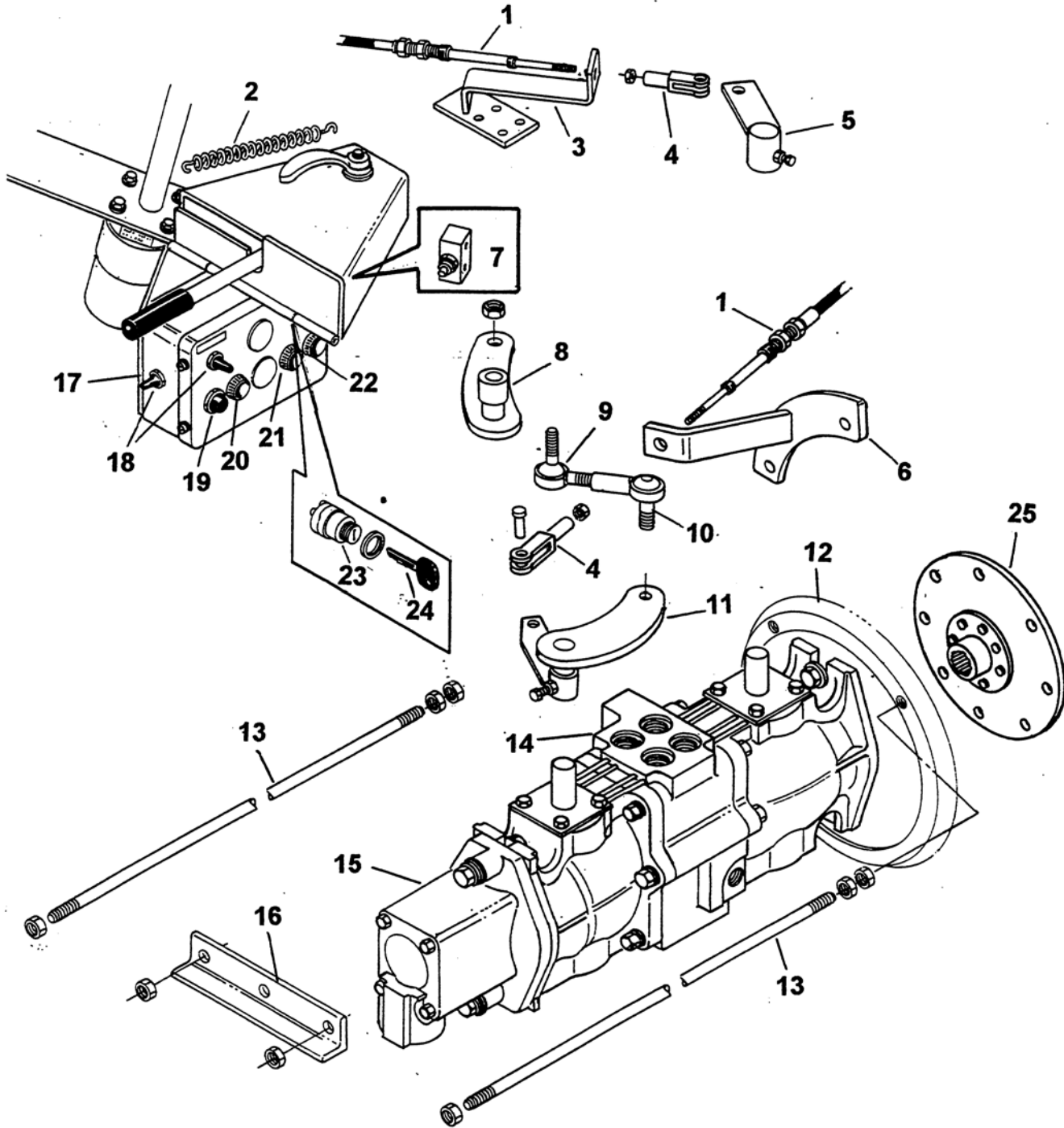
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	DH-1016	TANK, FUEL	1
2	DH-1008B	TANK, TACK FLUSH	1
3	330070	TANK, HYDRAULIC	1
4	330020	CAP, FUEL AND TACK FLUSH TANK	2
5	314040	CAP, HYDRAULIC TANK	
6	320050	BREATHER	
7	900010	PUMP, FUEL WASH DOWN	
8	920218	ADAPTER, PIPE TO HOSE	
9	230160	CLAMP	
10	920219	5116" HOSE (15')	
11	49X6X6	ELBOW, 90°, 318 M.P.T. X #8 HOSE	
12	2501-8-8	ADAPTER, PIPE TO HOSE	
13	310090	FUEL FILTER, IN LINE	1
14	49X4X4	ELBOW, 1/4" M.P.T. X 114" M. FLARE	2
15	110X4X2	PIPE REDUCER	1
16	1024X4	STREET ELBOW, 1/4" PIPE (BRASS) -	1
17	ILOC-4RMP	ADAPTER, PIPE TO HOSE (114" X 5116")	1
18	480040	HOSE, TACK FLUSH (Y2" X 15')	1
19	280140	TEE, %" F. P.T.	1
20	500070	GAUGE, HYDRAULIC OIL LEVEL & TEMP.	1
21	120011	SHIELD, SPLASH	1
22	120014	FRAME, MAIN	1
23	620050	BREATHER	1
24	280320	BELL REDUCER, 1/4" F.P.T. X %2' F.P.T.	1
25	280090	PIPE, VENT	1
26	280330	ELBOW, 900	1
27	370210	SHIELD, HOSE	1
28	240081	BRACKET, SCREED TURNBUCKLE	1
29	370220	SUPPORT, THROTTLE BRACKET (L.H.)	1
30	370230	SUPPORT, THROTTLE BRACKET (R.H.)	1



# VALVE BANK



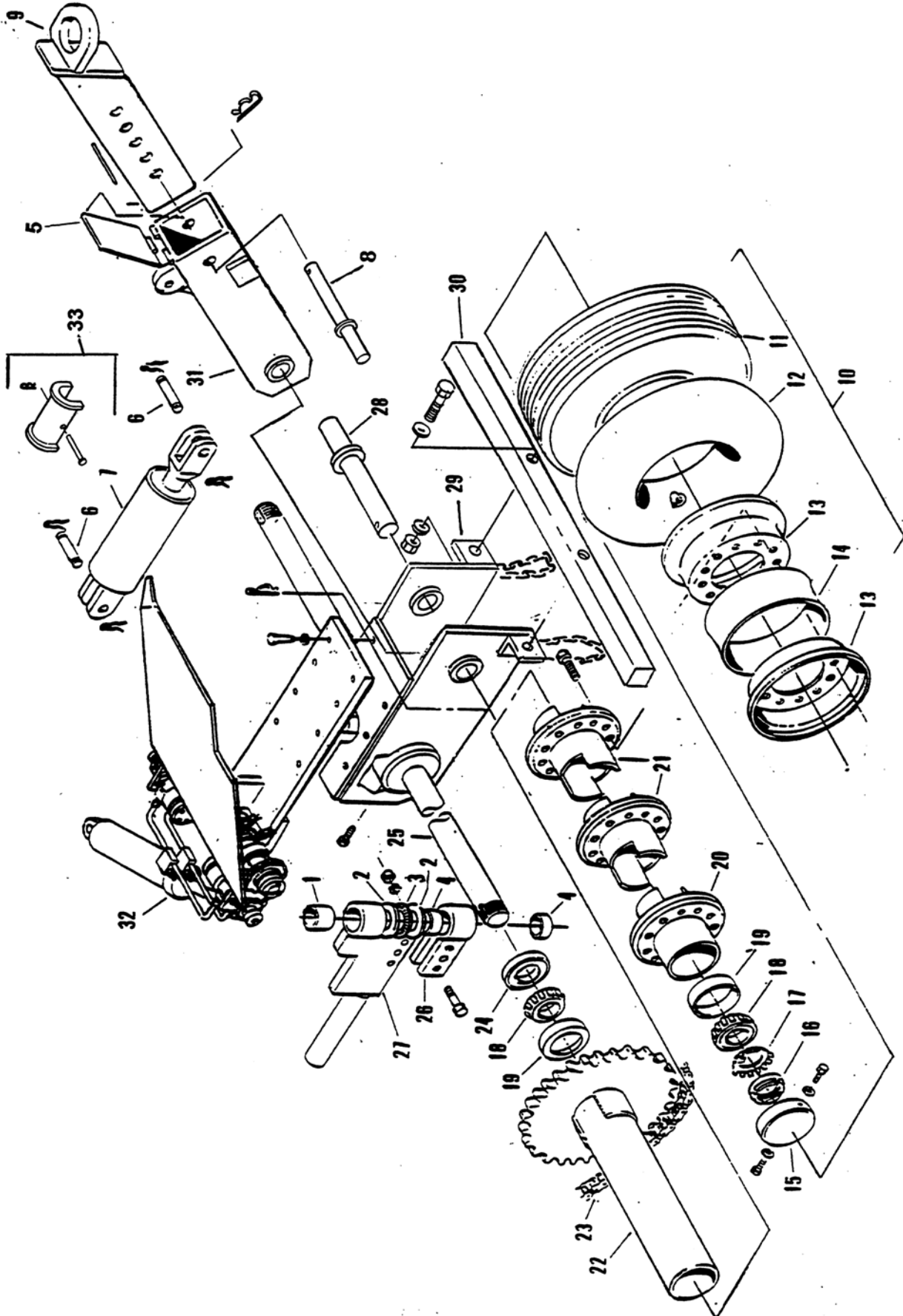
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	910056	COVER, OUTLET	1
2	901002	VALVE, POWER BEYOND	1
3	910058	BRACKET, VALVE LEVER	1
4	141020	VALVE, ANTI-CAVITATION	1
5	901009	RELIEF VALVE	1
6	910055	COVER, INLET	1
7	141030	ROD KIT, 9 SECTION	1
8	910054	VALVE SECTION	1
9	910062	SEAL KIT, VALVE SECTION	1
10	901014	SPRING RETURN KIT	1
11	141040	END CAP, VALVE SPOOL	1
12	141050	FLOAT ASSY.	1
13	901007	DETENT KIT	1
14	910059	SEAL KIT, VALVE SPOOL	1



# HYDRAULIC PUMP AND CONTROL LINKAGE



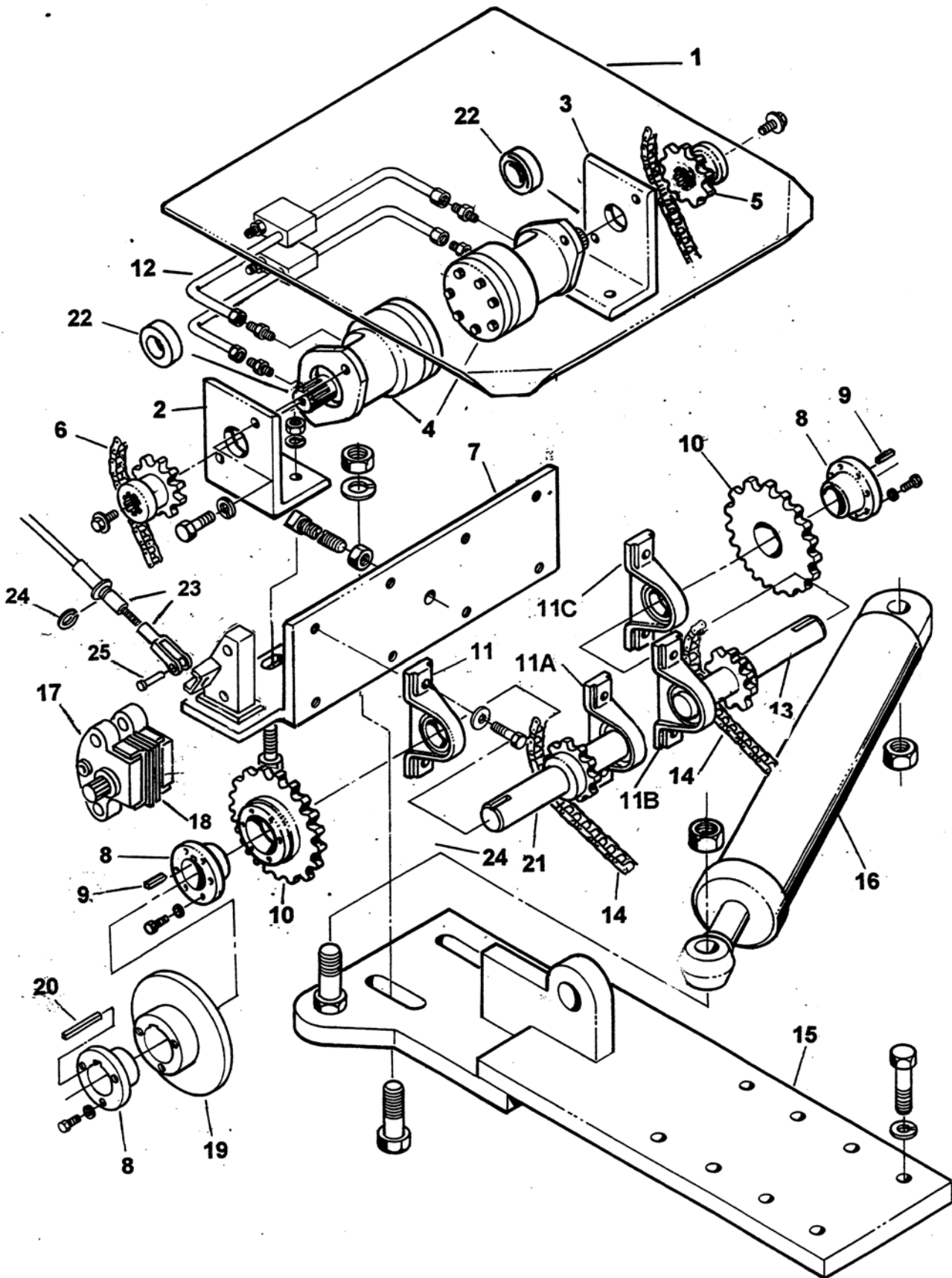
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	350010	CABLE	1
2	350140	SPRING, SHIFTER GATE	1
3	350131	BRACKET, GRINDER CONTROL CABLE	1
4	350050	CLEVIS, CABLE END	1
5	220610	CONTROL ARM, GRINDER PUMP	1
6	350081	BRACKET, (R.H.) DRIVE CABLE	1
7	490040	SWITCH, NEUTRAL SAFETY	1
8	350091	UPPER CONTROL ARM, FWD. & REV.	1
9	350100	BALL JOINT	1
10	311040	BALL JOINT	1
11	350121	LOWER CONTROL ARM, FWD. & REV.	1
12	320200	ADAPTER PLATE, PUMPTO ENGINE	1
13	320150	ROD, PUMP SUPPORT	1
14	320400	V.V. HYDRO-STAT TRANS. & PUMP ASSY.	1
15	320411	VANE PUMP	1
16	320161	BRACKET, PUMP SUPPORT	1
17	320425	INSTRUMENT PANEL BOX (CPT.)	1
18	500040	TOGGLE SWITCH	1
19	340210	PUSH BUTTON SWITCH, EMERGENCY BRAKE	1
20	320385	INDICATOR LAMP ASSY., AIR RESTRICTION	1
21	320384	INDICATOR LAMP ASSY., OIL PRESS.	1
22	320386	INDICATOR LAMP ASSY, BATTERY CHARGE	1
23	320390	IGNITION SWITCH ASSY.	1
24	320380	IGNITION KEY	1
25	320170	FLEX PLATE, FLYWHEEL PUMP DRIVE	1



# DRIVE TRAIN ASSEMBLY



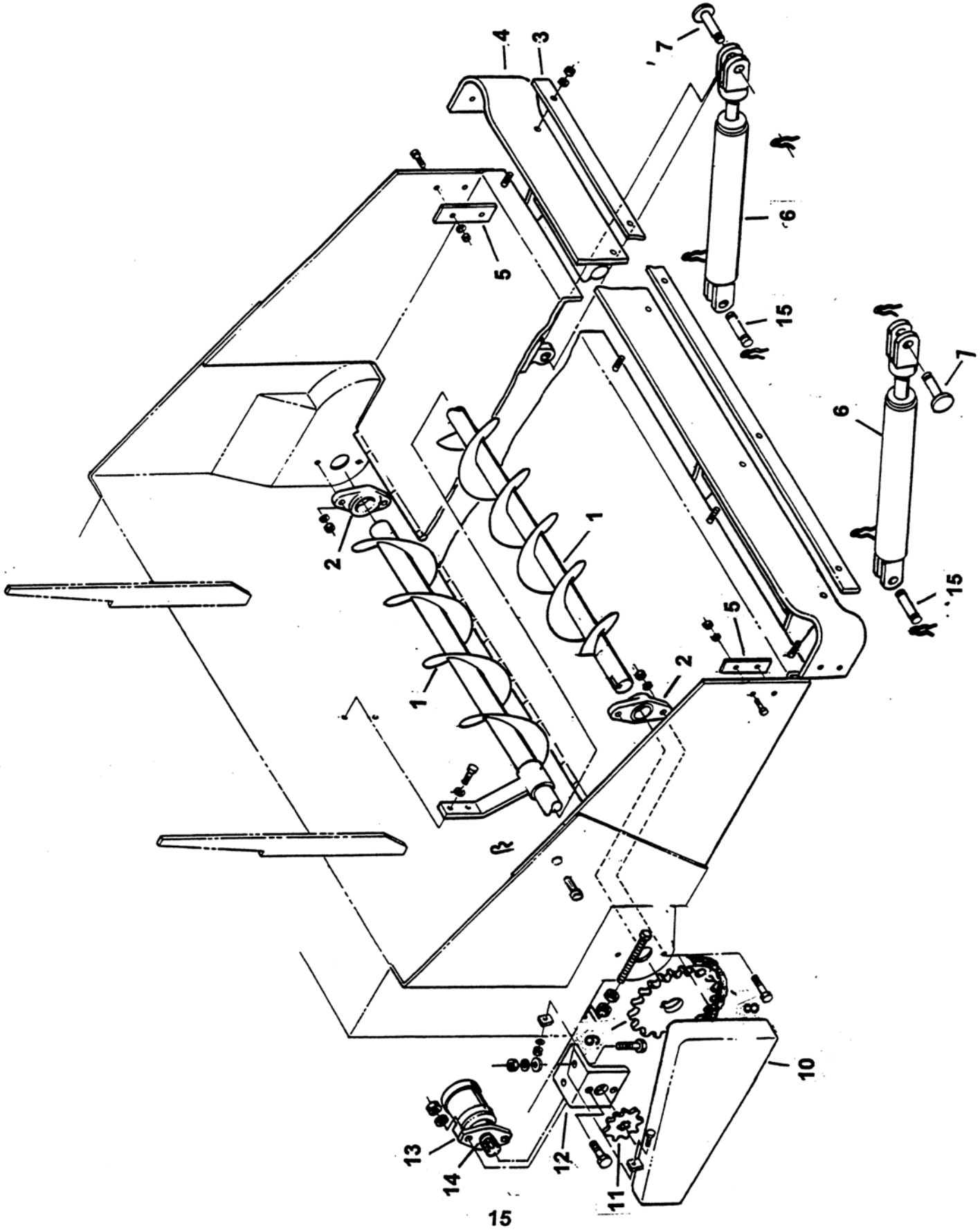
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	210010	BUSHING, DRAWBAR UPPER	1
2	210020	THRUST WASHERS	2
3	210030	THRUST BEARING	1
4	210040	BUSHING, DRAWBAR LOWER	2
5	210052	COVER, TONGUE	1
6	210060	PIN, HYDRAULIC CYLINDER	2
7	210070	CYLINDER, TONGUE	1
7A	210070-1	KIT, CYLINDER REPAIR	1
8	210082	PIN, TONGUE POSITIONER	1
9	210093	TONGUE EXTENSION UPPER	1
10	210100	FRONT WHEEL ASSEMBLY (TIRE & TUBE INC)	6
11	210110	TIRE, FRONT	6
12	210120	TUBE, FRONT TIRE	6
13	210130	RIM (2 PIECES)	12
14	210140	LINER, RIM	6
15	210152	HUB CAP	2
16	210160	LOCK NUT, AXLE	2
17	210170	LOCK WASHER, AXLE NUT	2
18	210180	BEARING, CONE	4
19	210190	BEARING, CUP	4
20	210202	WHEEL FLANGE, OUTER	2
21	210212	WHEEL FLANGE, INNER	4
22	210223	HUB, SPROCKET DRIVEN	2
23	210230	CHAIN, DRIVE 60H	2
24	210240	SEAL, AXLE	2
25	210252	AXLE	1
26	210262	SUPPORT, BUSHING	1
27	210273	DRAWBAR, UPPER	1
28	210282	PIN, TONGUE	1
29	210474	TROLLEY ASSEMBLY	1
30	210481	BUMPER, WHEEL	1
31	210491	TONGUE, LOWER	1
32	210304	DRIVE UNIT ASSEMBLY (SEE PAGE 14-LOT FURTHER BREAKDOWN)	1
33	210071	TONGUE SAFETY LOCK ASSEMBLY	1



# DRIVE UNIT ASSEMBLY



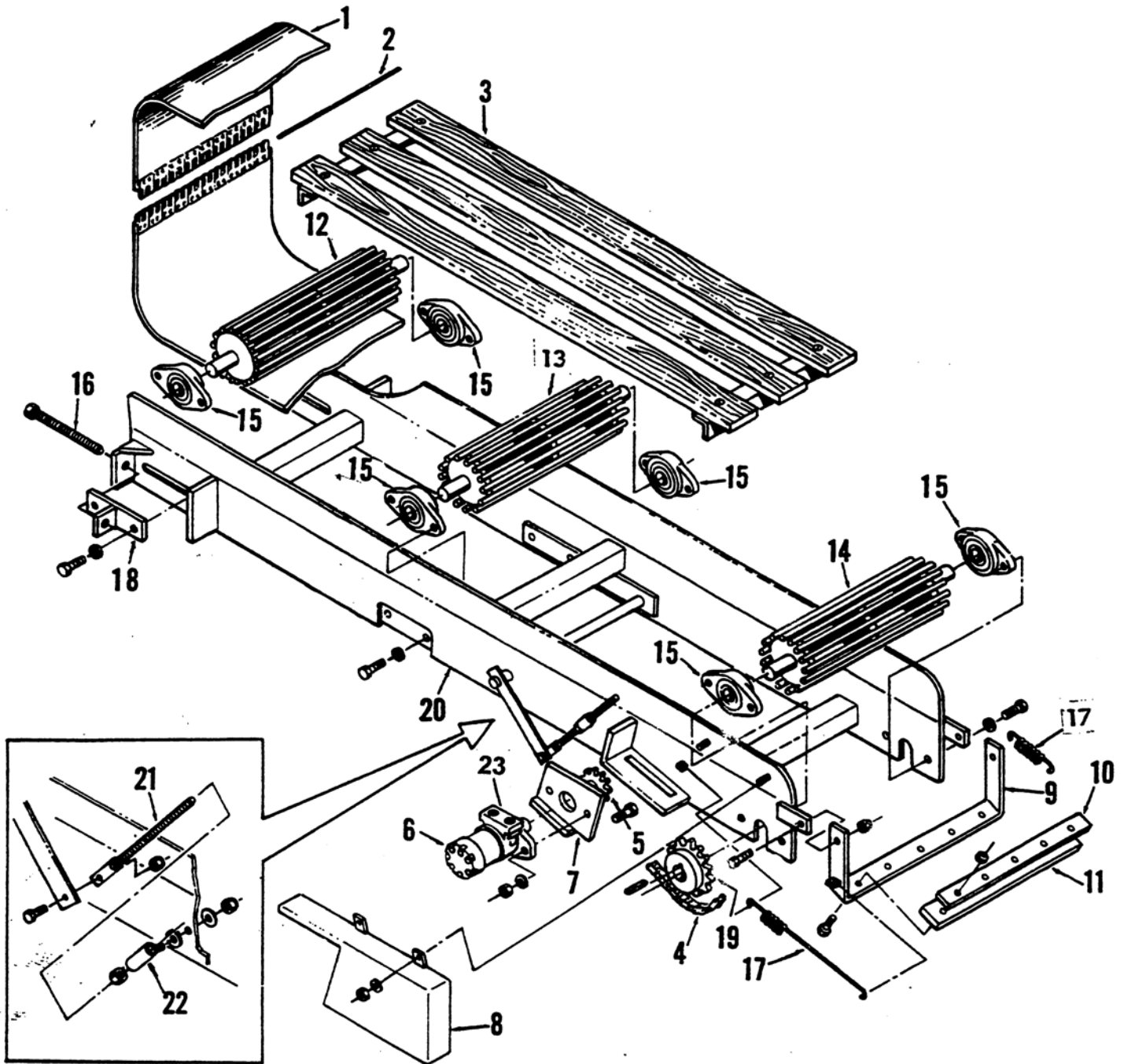
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	210313	COVER, DRIVE UNIT	1
2	210322	MOUNT, DRIVE MOTOR (R.H.)	1
3	210332	MOUNT, DRIVE MOTOR (L.H.)	1
4	210340	MOTOR, DRIVE	2
5	210350	SPROCKET, DRIVE MOTOR	2
6	210360.	CHAIN, DRIVE MOTOR 60R	2
7	210522	SUPPORT, DRIVE MOTOR	1
8	210380	BUSHING, TAPER LOCK 1 1/4"	2
9	210391	KEY, 1 /4"	2
10	210400	SPROCKET, COUPLING SHAFT	2
11	210410	BEARING, COUPLING SHAFT (R.H. OUTER)	4
11A	210410-RI	BEARING, CPLG. SHAFT (R.H. INNER)	1
11B	210410-LI	BEARING, CPLG. SHAFT (L. H. INNER)	1
11C	210410-LO	BEARING, CPLG. SHAFT (L. H. OUTER)	1
12	210420	TUBE ASSEMBLY (SPECIFY C.C. DEM.)	2
13	210432	SHAFT, COUPLING DRIVE	2
14	210230	CHAIN, DRIVE 60H	2
15	210453	TOP SECTION, TROLLEY	1
16	210460	CYLINDER, HYDRAULIC STEERING	1
16A	210460-1	KIT, CYLINDER REPAIR	1
17	312110	CALIPER	1
18	210480	PAD, BRAKE	2
19	210490	DISC, BRAKE	1
20	210511	KEY,	1
21	210521	SHAFT, COUPLING DRIVE BRAKE	1
22	860012	SEAL, HYDRAULIC MOTOR	1
23	350070	CABLE, PARKING BRAKE	1
24	120390	"E" CLIP, PARKING BRAKE CLIVIS	1
25	120400	CLEVIS PIN	1



# HOPPER ASSEMBLY



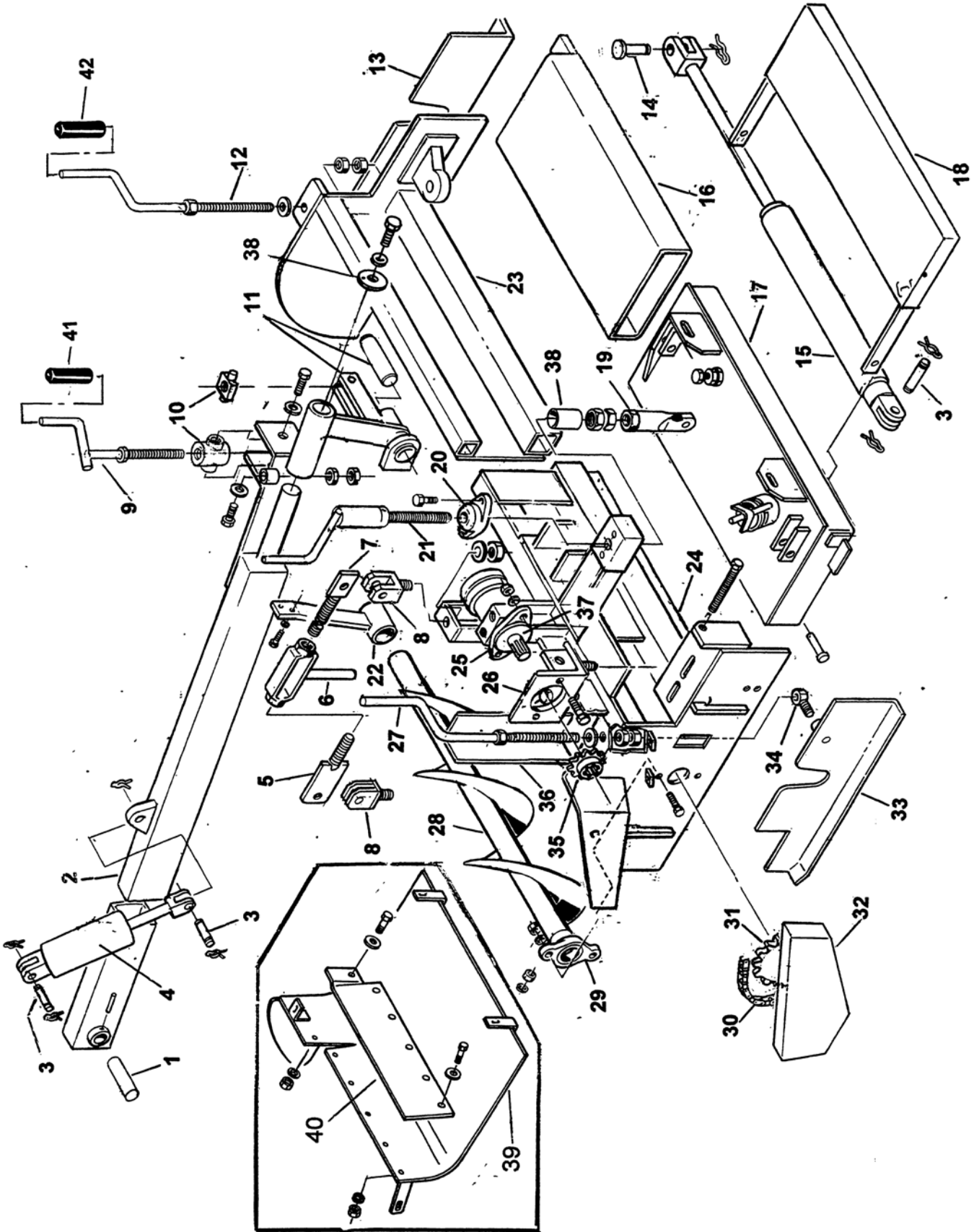
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	260014	AUGER, MAIN	1
2	240290	BEARING, AUGER SHAFT	1
3	260032	CLAMP, RUBBER GUARD	1
4	260040	FLASHING, HOPPER	1
5	260051	END PLATE, RUBBER GUARD	2
6	260060	CYLINDER, HYDRAULIC HOPPER LIFT	2
6A	260060-1	KIT, CYLINDER REPAIR	1
7	260071	PIN, HYDRAULIC CYLINDER	2
8	260080	CHAIN, AUGER DRIVE 60R	1
9	260090	SPROCKET, AUGER SHAFT	1
10	260102	GUARD, CHAIN	1
11	210350	SPROCKET, AUGER MOTOR	1
12	260122	MOUNT, AUGER MOTOR	1
13	260130	MOTOR, MAIN AUGER	1
14	860014	SEAL KIT, HYDRAULIC MOTOR	1
15	210060	PIN, HYDRAULIC CYLINDER	2



# CONVEYOR ASSEMBLY



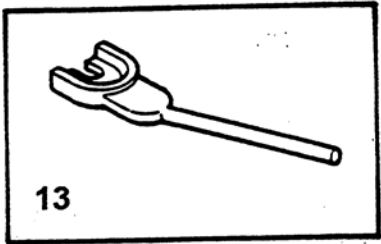
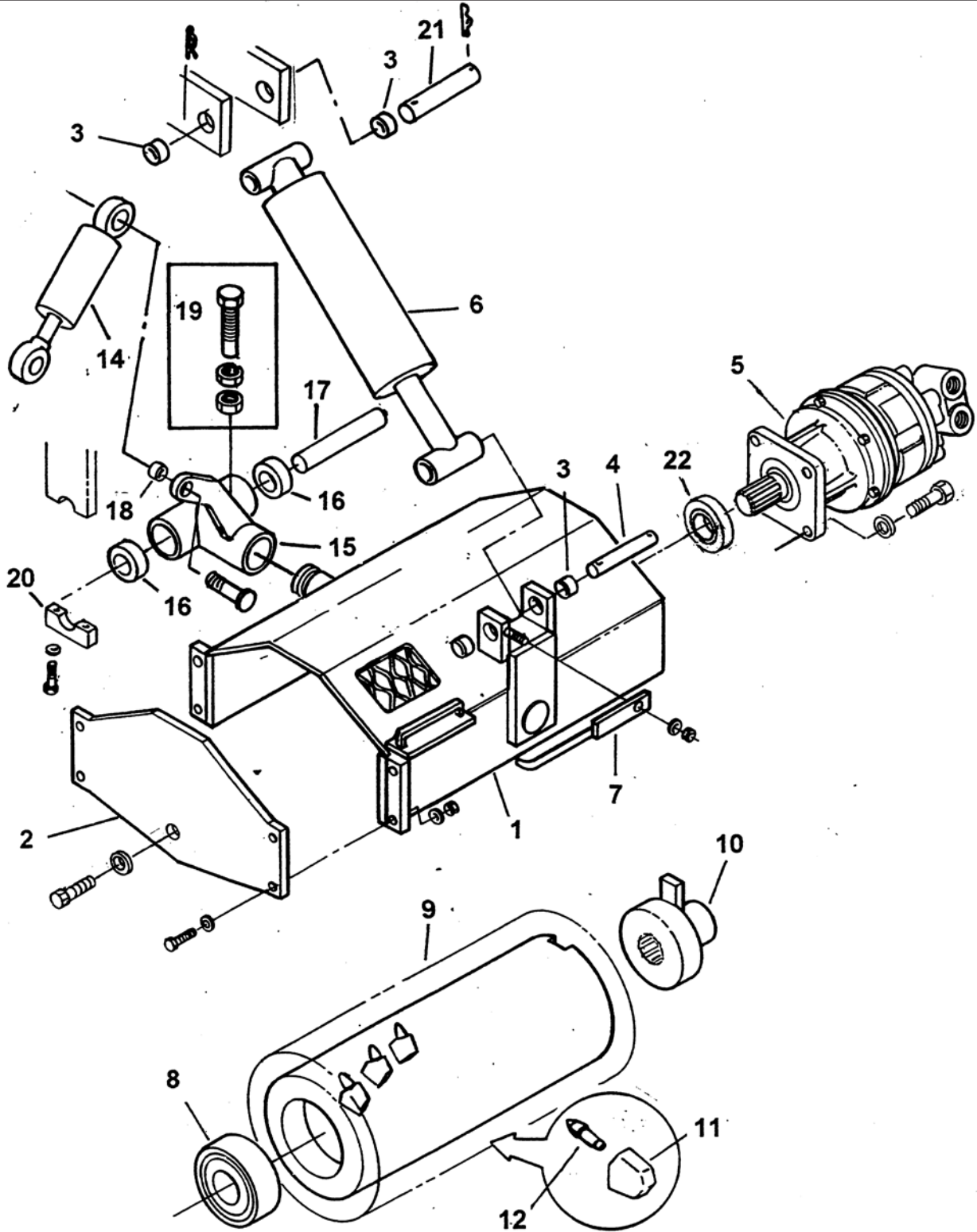
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	250010	BELT, CONVEYOR	1
2	250020	PIN, LACING	1
3	250030	WOOD BED	3
4	250040	CHAIN, CONVEYOR MOTOR	1
5	210350	SPROCKET, CONVEYOR MOTOR	1
6	250060	HYDRAULIC MOTOR, CONVEYOR	1
7	250072	MOUNT, CONVEYOR MOTOR	1
8	250082	GUARD, CHAIN	1
9	250091	BRACKET, BELT WIPER	1
10	250101	CLAMP, BELT WIPER	1
11	250110	RUBBER, BELT WIPER	1
12	250122	PULLEY, DRIVEN	1
13	250132	PULLEY, IDLER	1
14	250142	PULLEY, DRIVE	1
15	250150	BEARING	6
16	250161	SCREW, ADJUSTING..	2
17	250170	SPRING, BELT WIPER	2
18	250181	BRACKET, ADJUSTING SCREW	2
19	250190	SPROCKET, DRIVE PULLEY SHAFT	1
20	250204	FRAME ASSEMBLY, CONVEYOR	1
21	250212	SCREW, IDLER ADJUSTING	1
22	250222	BRACKET, IDLER SCREW GUIDE	1
23	860012	SEAL, HYDRAULIC MOTOR	1



# SCREED ASSEMBLY



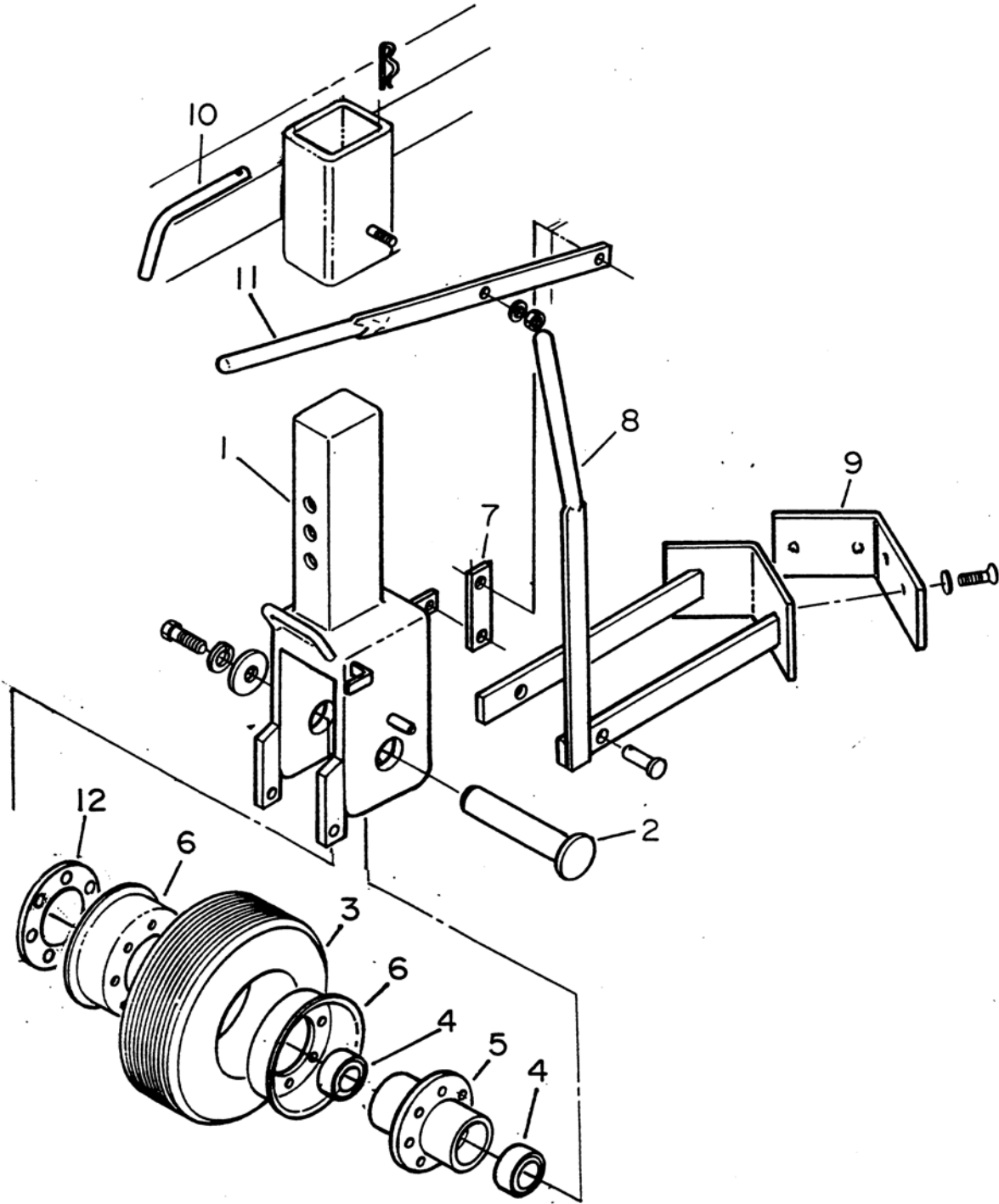
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	240011	PIN, DRAWBAR	1
2	240024	DRAWBAR	1
3	240030	PIN, HYDRAULIC CYLINDER	2
4	240040	CYLINDER, HYDRAULIC SCREED LIFT	1
4A	240040-1	KIT, CYLINDER REPAIR	1
5	240051	LONG EXTENTION, STABILIZER	1
6	240060	TURNBUCKLE	1
7	240071	SHORT EXTENSION, STABILIZER	1
8	240081	YOKE, STABILIZER	2
9	240092	SCREW, ANGLE ADJUSTING	2
10	240101	SUPPORT, ANGLE SCREW	1
11	240112	SWIVAL MOUNT, SCREED	1
12	240122	SCREW, ADJUSTING R.H. SHOE	1
13	240132	SHOE, R.H.	1
14	240141	PIN, HYDRAULIC CYLINDER	1
15	240150	CYLINDER, HYDRAULIC SCREED EXTENSION	1
15A	240150-1	KIT, CYLINDER REPAIR	1
16	240164	INSERT, SCREED BOX	1
17	240174	SCREED BOX	1
18	240183	WALKBOARD, SCREED	1
19	240191	NUT EXTENSION, FLIGHT SCREW	1
20	240200	BEARING, FLIGHT SCREW	1
21	240212	FLIGHT SCREW	1
22	240221	BRACKET, AUGER SUPPORT	1
23	240234	EXTENSION, SCREED BACK	1
24	240244	FRAME, SCREED	1
25	240250	HYDRAULIC MOTOR, SCREED AUGER	1
26	240262	MOUNT, SCREED AUGER MOTOR	1
27	240272	SCREW, ADJUSTING L.H. SHOE	1
28	240284	AUGER, SCREED	1
29	240290	BEARING, SCREED AUGER	1
30	240300	CHAIN, SCREED AUGER .	1
31	240310.	SPROCKET, AUGER SHAFT	1
32	240323	GUARD, CHAIN	1
33	240332	SHOE, L. H.	1
34	240341	NUT, ADJUSTING	1
35	240350	SPROCKET, SCREED AUGER MOTOR	1
36	240361	GUARD, L.H. SHOE ADJUSTING SCREW	1
37	860012	SEAL, HYDRAULIC MOTOR	1
38	240391	WASHER, SWIVAL MOUNT	1
39	240374	PAN, ROAD WIDENING	1
40	240380	FLASHING, ROAD WIDENING PAN	1
41	490100	HAND GRIP, SCREED ANGLE SCREW	1
42	240120	HAND GRIP, SCREED DEPTH SHOE SCREW	1



# GRINDER ASSEMBLY



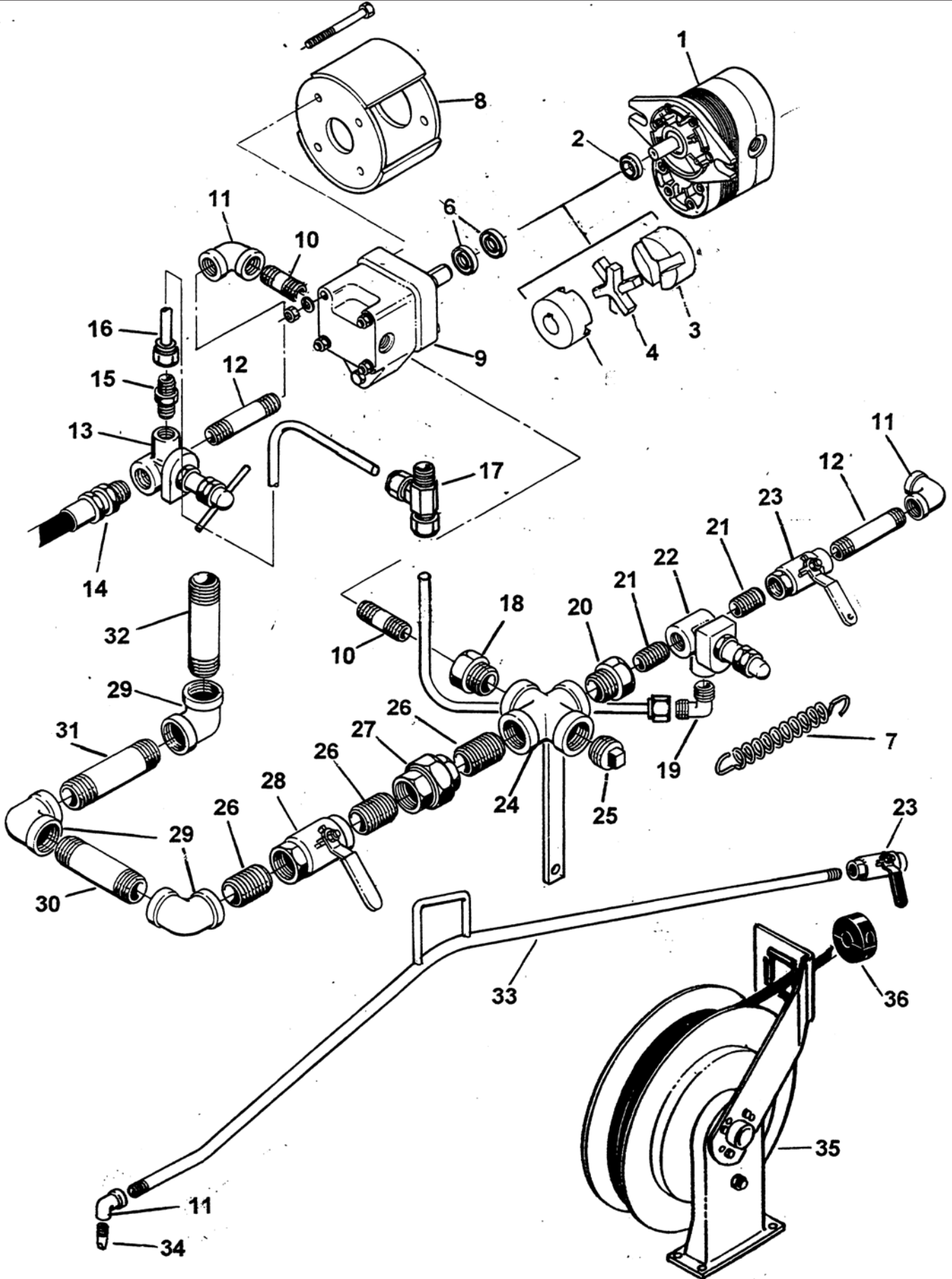
ITEM NO.	PART NO.	DESCRIPTION	QTY.
		GRINDER ASSEMBLY	1
1	220413	HOUSING, GRINDER	1
2	220422	COVER, GRINDER SIDE	1
3	220360	BUSHING	4
4	220441	PIN, CYLINDER	1
5	220450	MOTOR, HYDRAULIC	1
6	220460	HYDRAULIC CYLINDER, LIFT	1
6A	220460A	SEAL KIT, HYD. CYL.	.1
7	220471	ARM, INDICATOR	1
8	220480	BEARING	1
9	220493	GRINDER DRUM ASSEMBLY	1
10	220501	COUPLING, POSITION LOCK	1
11	220390	BLOCK, BIT MOUNTING	51
12	220380	BIT, GRINDER	51
13	220400	TOOL, BIT REMOVAL	1
14	220510	HYDRAULIC CYLINDER, TILT	1
14A	210460-1	SEAL KIT, HYD. CYL.	1
15	220522	SWIVEL MOUNT	2
16	210010	BUSHING	1
17	220541	PIN	1
18	220360	BUSHING	1
19	220561	BOLT	1
20	220571	CLAMP	2
21	220581	PIN	1
22	220450-1	SEAL, HYD. MOTOR SHAFT	1



# GRINDER STABILIZER WHEEL



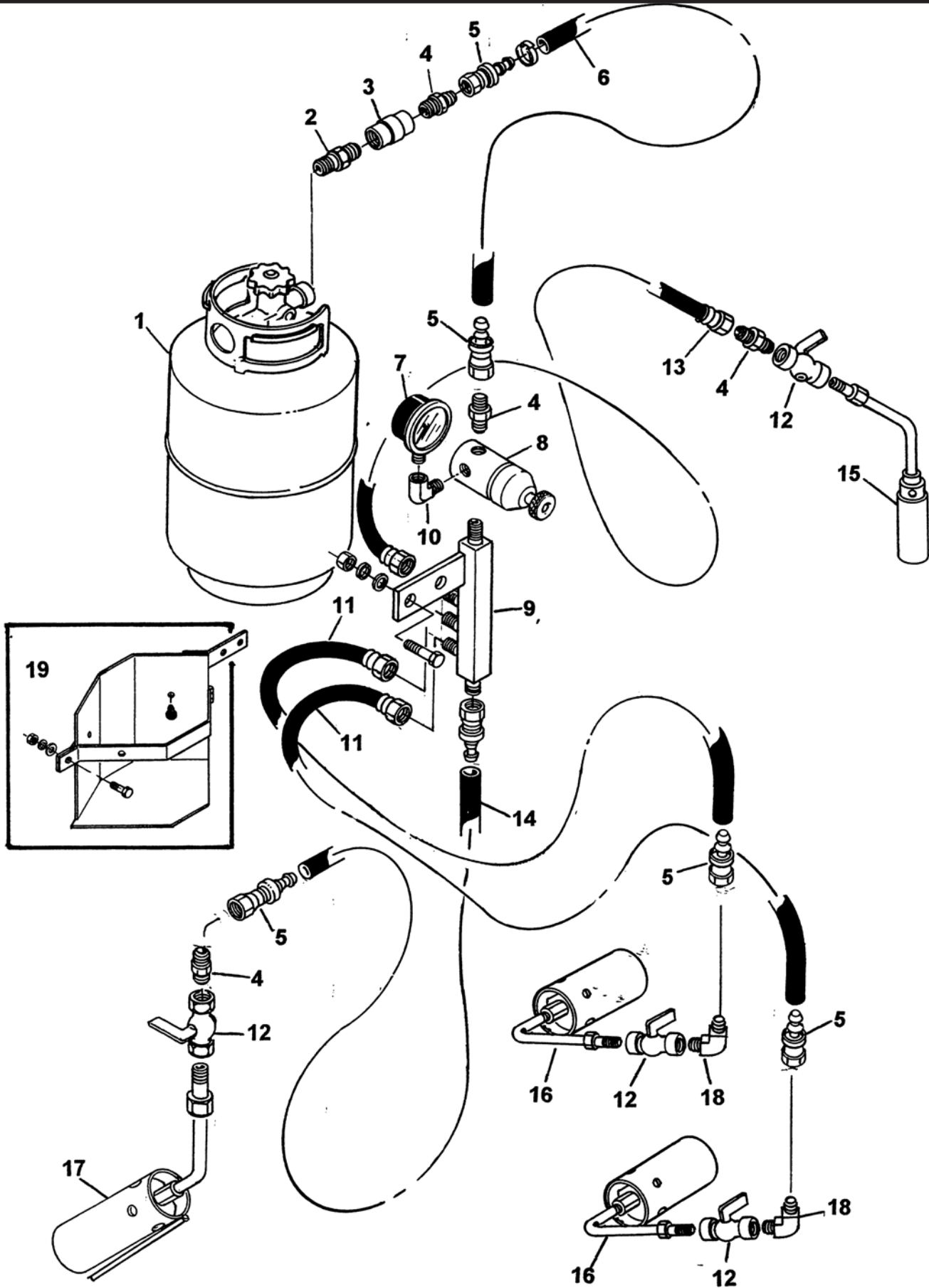
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	370121	STABILIZER WHEEL ASSEMBLY	1
2	370137	YOKE, WHEEL SUPPORT	1
3	370137	AXLE	1
4	900304	TIRE	1
5	420090	BEARING	2
6	370141	HOUSING, AXLE FEMALE	1
7	210130	RIM, 2 PCS.	2
8	370161	LINK	1
9	370171	ARM, DIRT DEFLECTOR	1
10	370181	BLADE, DIRT DEFLECTOR ARM	1
11	370491	PIN, POSITION LOCK	1
12	370151	LEVER, WHEEL ASSIST	1
	370200	FLANGE, WHEEL	1



# TACK PIPING ASSEMBLY



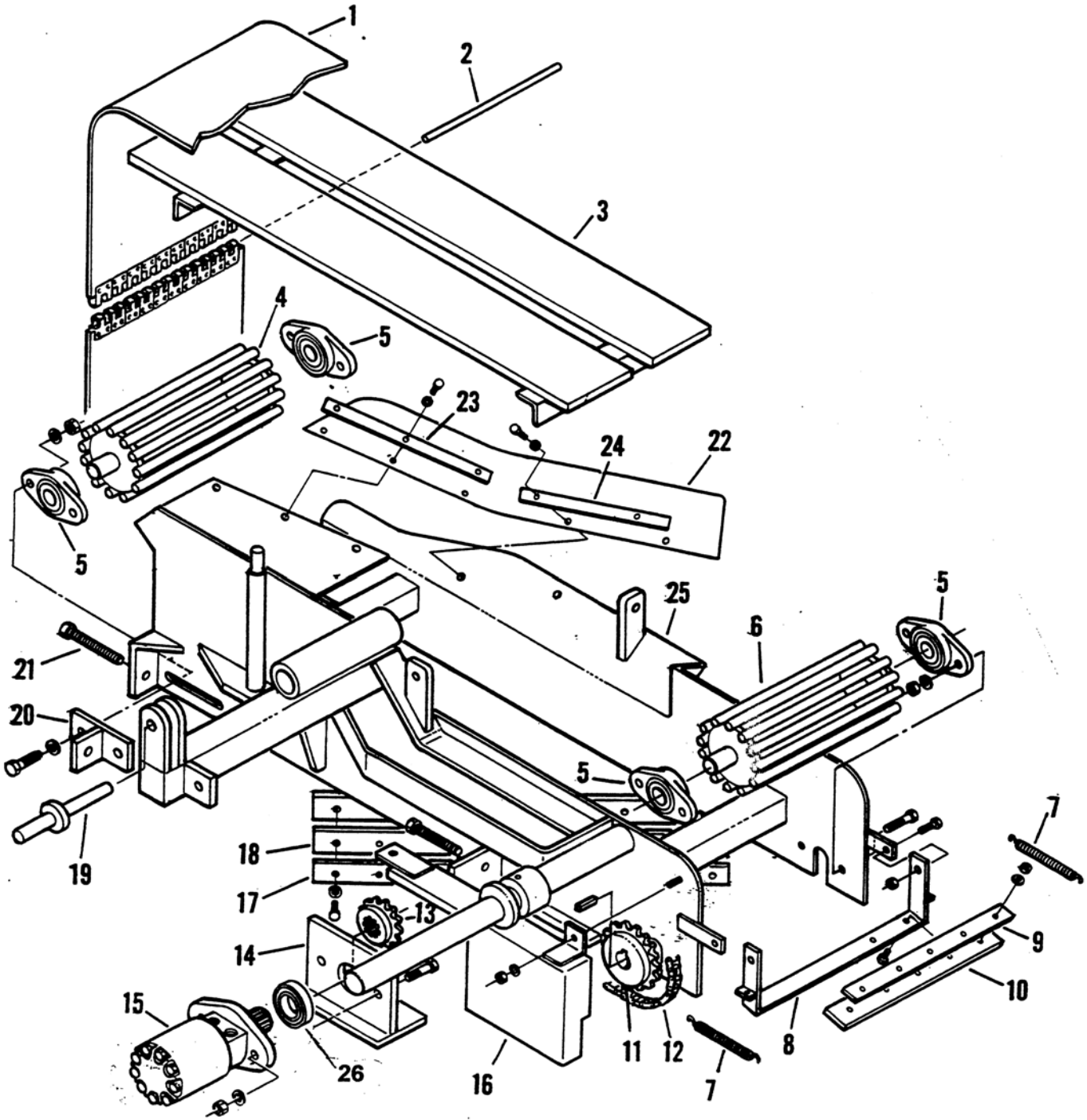
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1		MOTOR, TACK PUMP DRIVE	
2		SEAL, MOTOR	1
3	280030	COUPLING, MOTOR	1
4	280040	RUBBER, INSERT	1
5	280050	COUPLING, PUMP	1
6	280020-1	SEAL KIT, TACK PUMP	1
7	250170	SPRING, RETURN	1
8	280062	MOUNTING HOUSING	1
9	280020	PUMP, TACK	1
10	280070	NIPPLE, PIPE	3
11	280080	ELBOW, PIPE	3
12	280090	NIPPLE, 'PIPE	2
13	280100	RELIEF VALVE, 250 P.S.I.	1
14	280110	HOSE, TACK	1
15	280150A	ADAPTER, PIPE TO TUBE	3
16	280121	TUBE ASSEMBLY, SHORT	1
17	280140A	TEE, PIPE TO TUBE	1
18	280131	TUBE ASSEMBLY, LONG	1
19	280260A	900 ELBOW, PIPE TO TUBE	1
20	280240	ADAPTER, PIPE	2
21	280270	NIPPLE, PIPE	2
22 .	280280	VALVE, RELIEF 100 PSI	1
23	280290	BALL VALVE, 1/2"	2
24	280230	CROSS, 4 WAY PIPE	1
25	280250	PUGE, PIPE	1
26	280200	NIPPLE, PIPE	3
27	280220	UNION, PIPE	1
28	280210	BALL VALVE, 1"	1
29	280170	ELBOW, PIPE	3
30	280190	NIPPLE, PIPE	1
31	280180	NIPPLE, PIPE	1
32	280160	NIPPLE, PIPE	1
33	280302	WAND, TACK SPRAY	1
34	280310	NOZZLE, TACK SPRAY	1
35	150020	REWIND HOSE WHEEL	1
36	2-HR1004-3	BUMPER STOP	1



# PROPANE HEATER ASSEMBLY



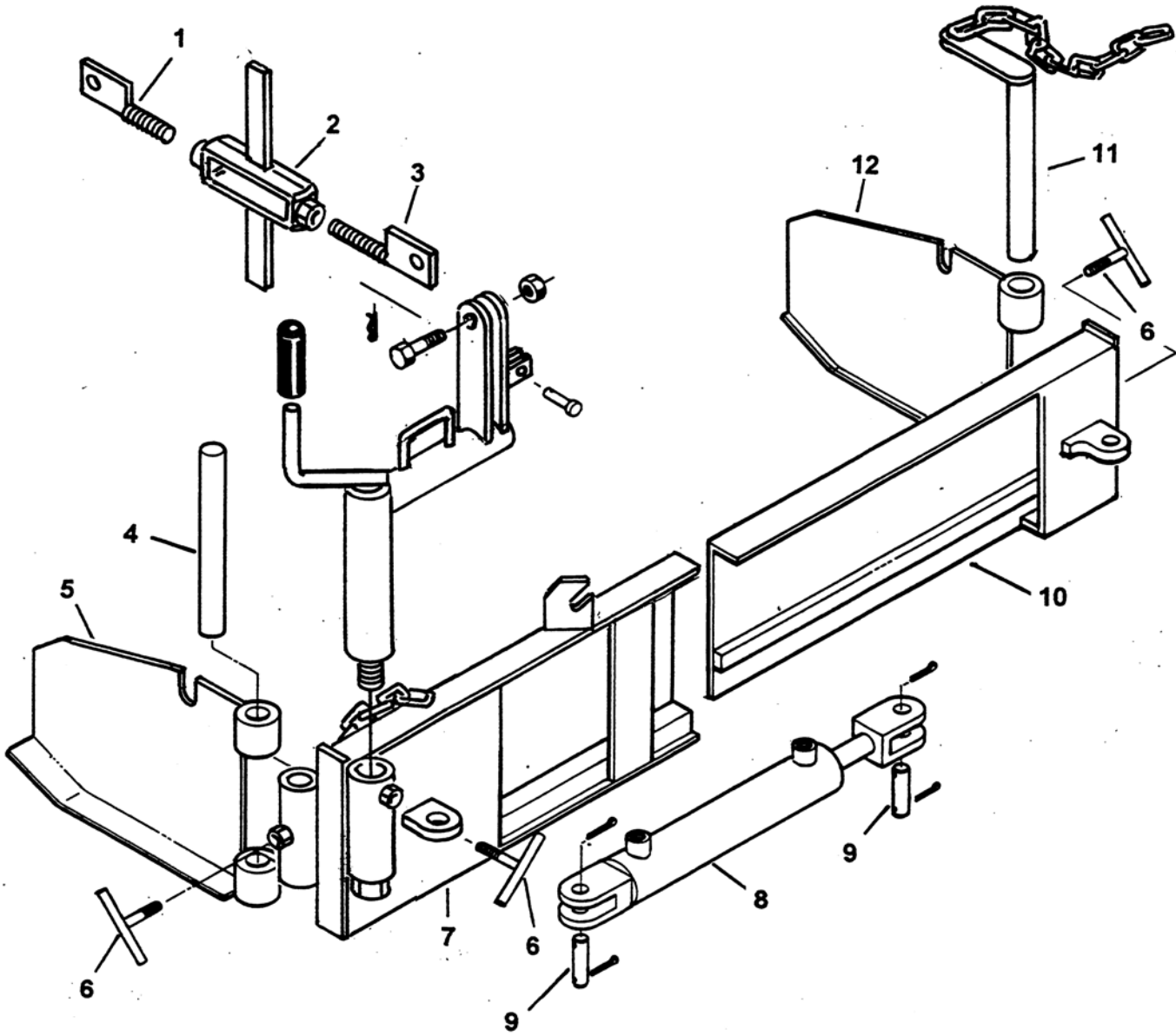
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	230010-30	TANK, 30 LBS. I.P.G.	1
2	230030	ADAPTER, P.O.L.	1
3	230040	COUPLING, 1/4" PIPE	1
4	230250	ADAPTER, PIPE TO FLARE	1
5	230260	ADAPTER, HOSE TO FLARE	1
6	230270	HOSE, TANK TO REGULATOR	1
7	230110	GAUGE, L.P.G. PRESS	1
8	230100	REGULATOR, I.P.G. PRESS	1
9	230131	MANIFOLD, I.P.G.	1
10	230270	STREET ELBOW, 1/4" PIPE	1
11	230210	HOSE, TACK TANK BUMER	1
12	230180	VALVE	1
13	230220	HOSE, STARTER BURNER	1
14	230230	HOSE, SCREED BURNER	1
15	230200	BURNER NOZZLE, STARTER	1
16	230190	BURNER NOZZLE, TACK TANK	1
17	230190S	BURNER NOZZLE, SCREED	1
18	230280	ELBOW, 1/4" M.P.T. X 114" FLARE	1
19	230291	BRACKET, L.P.G. TANK	1



# SHOULDER ATTACHMENT ASSEMBLY



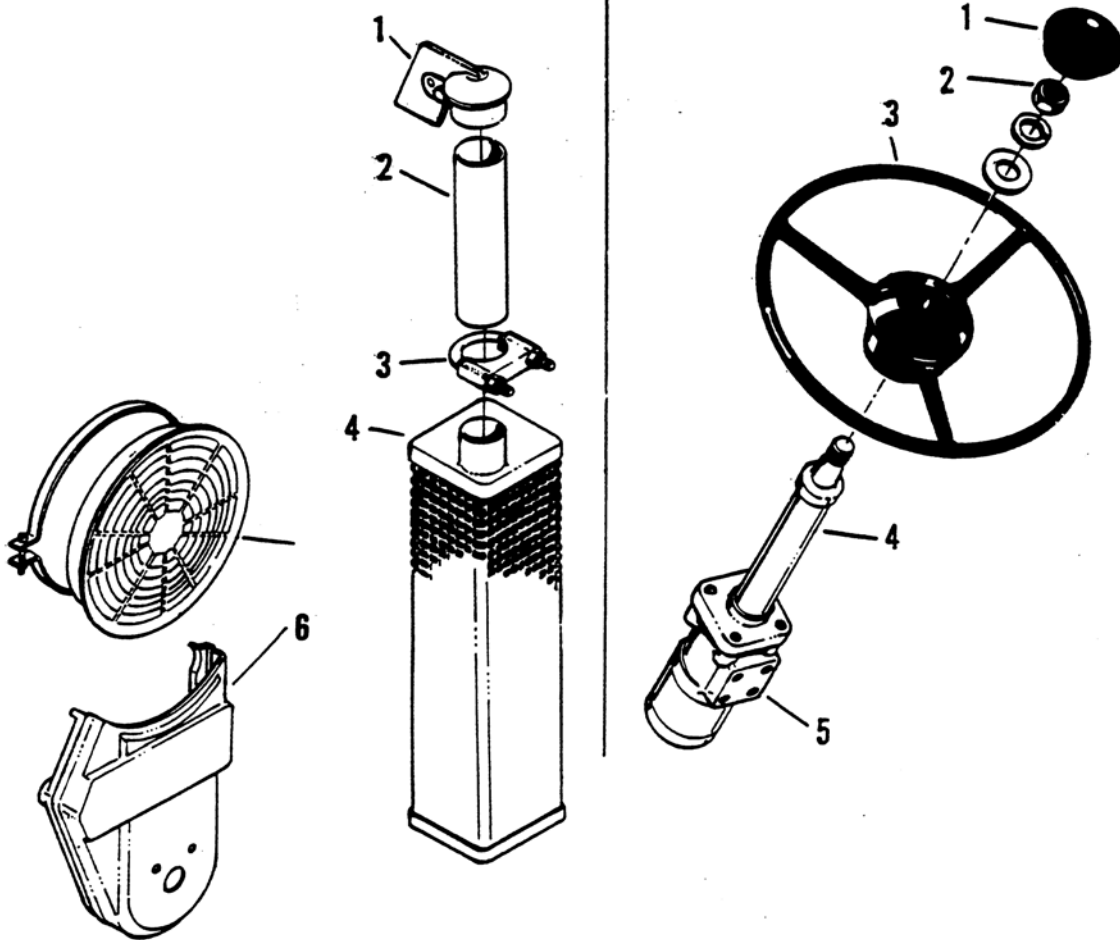
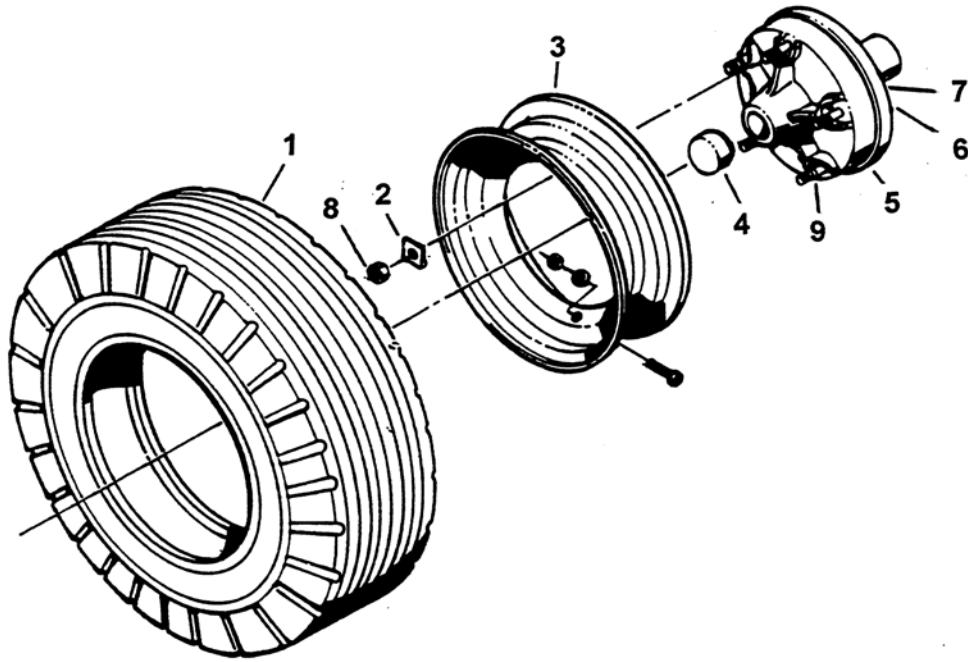
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	270010	BELT, SHOULDER CONVEYOR	1
2	270020	PIN, LACING	1
3	270030	WOOD, BED	2
4	270042	PULLEY, DRIVEN	1
5	250150	BEARING	
6	270061	PULLEY, DRIVE	1
7	250170	SPRING, BELT WIPER	2
8	270081	BRACKET, BELT WIPER	1
9	270091	CLAMP, BELT WIPER	1
10	270100	WIPER, CONVEYOR BELT	1
11	270110	SPROCKET, DRIVE PULLEY	1
12	270120	CHAIN, CONVEYOR DRIVE	1
13	240350	SPROCKET, CONVEYOR MOTOR	1
14	270142	MOUNT, MOTOR	1
15	240250	HYDRAULIC MOTOR	1
16	270162	GUARD, CHAIN	1
17	270172	CLAMP, BOTTOM SCRAPER	1
18	270180	BOTTOM SCRAPER, RUBBER	1
19	270191	PIN	1
20	270201	BRACKET, PULLEY ADJUSTING	1
21	270210	SCREW, ADJUSTING	1
22	270220	MATERIAL GUIDE, RUBBER	1
23	270231	CENTER CLAMP, MATERIAL GUIDE	1
24	270241	SIDE CLAMP, MATERIAL GUIDE	1
25	270254	FRAME ASSEMBLY	1
26	860012	SEAL, HYDRAULIC MOTOR	1



# SHOULDER ATTACHMENT STRIKE-OFF ASSEMBLY



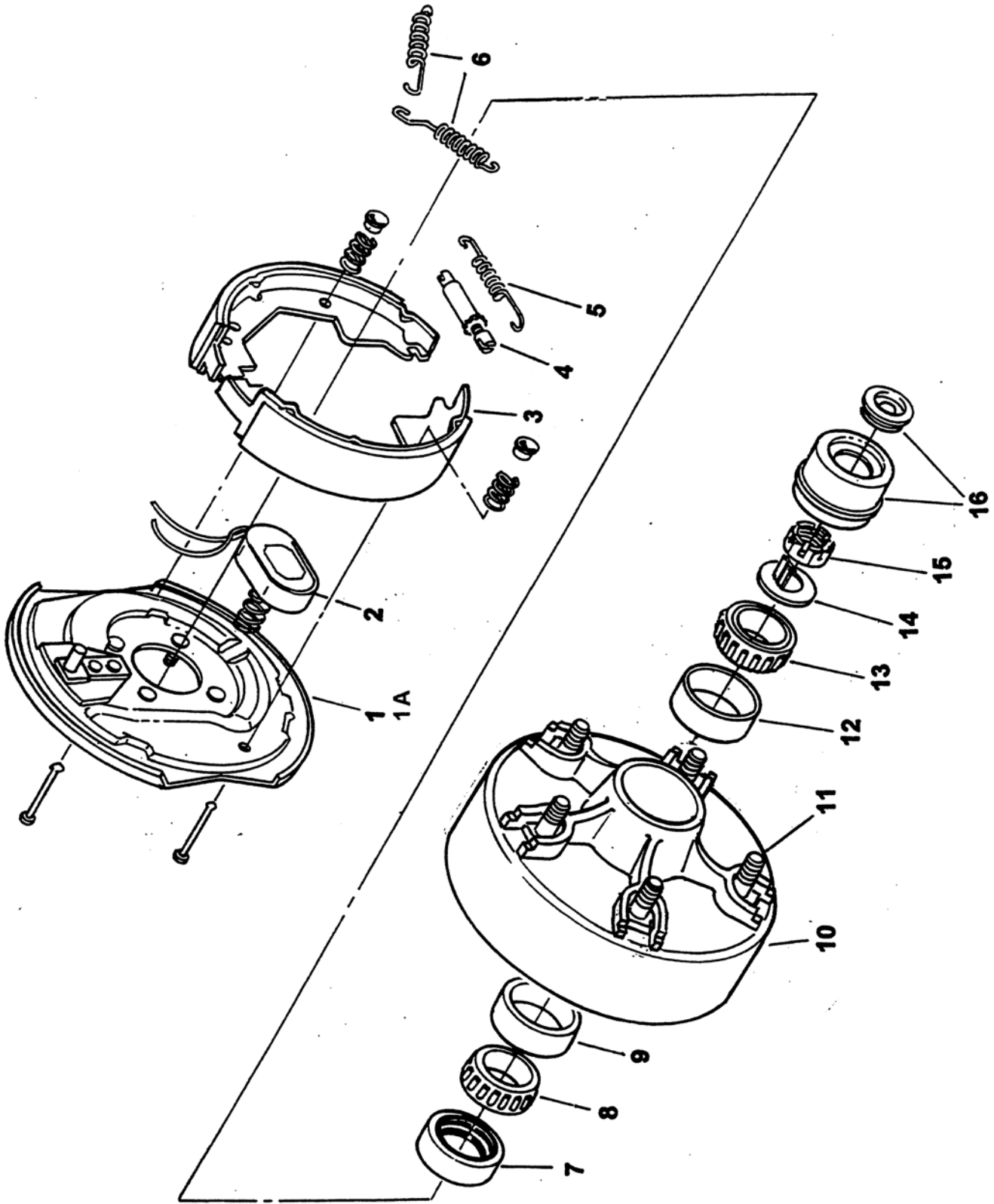
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	270262	EXTENSION, STABILIZER	2
2	240060	TURNBUCKLE	1
3	270284	DEPTH SCREW	1
4	270291	PIN, WING (L.H.)	1
5	270303	WING, (L.H.)	1
6	270311	TEE HANDLE	3
7	270324	FRAME ASSEMBLY	1
8	260060	CYLINDER, HYDRAULIC EXTENSION	1
8A	260060-1	KIT, CYLINDER REPAIR	1
9	240030	PIN, HYDRAULIC CYLINDER	1
10	270354	EXTENSION, FRAME ASSEMBLY	2
11	270361	PIN, WING (R.H.)	1
12	270373	WING, (R.H.)	1



# REAR WHEEL & TIRES, ENGINE ACCESSORIES PLUS STEERING MOTOR



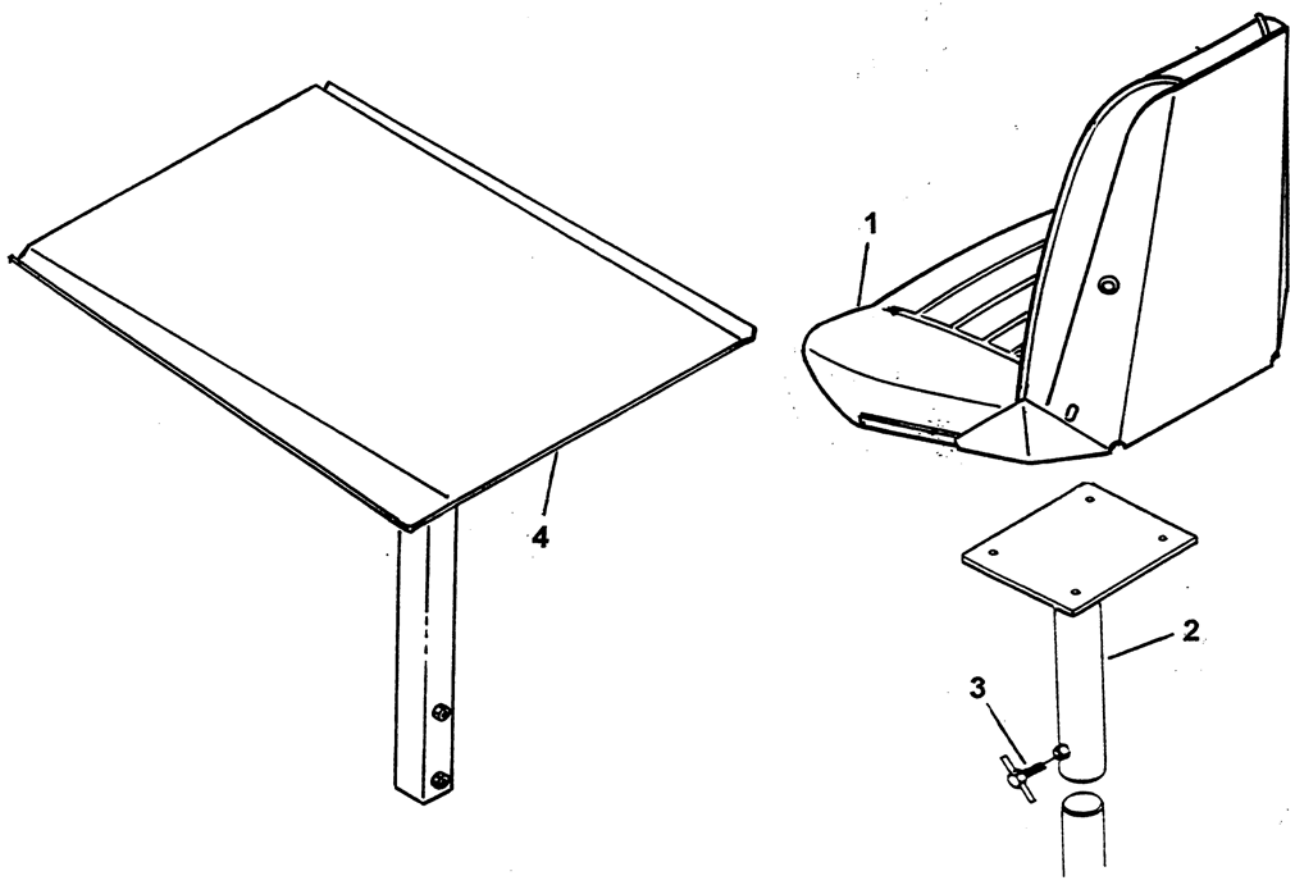
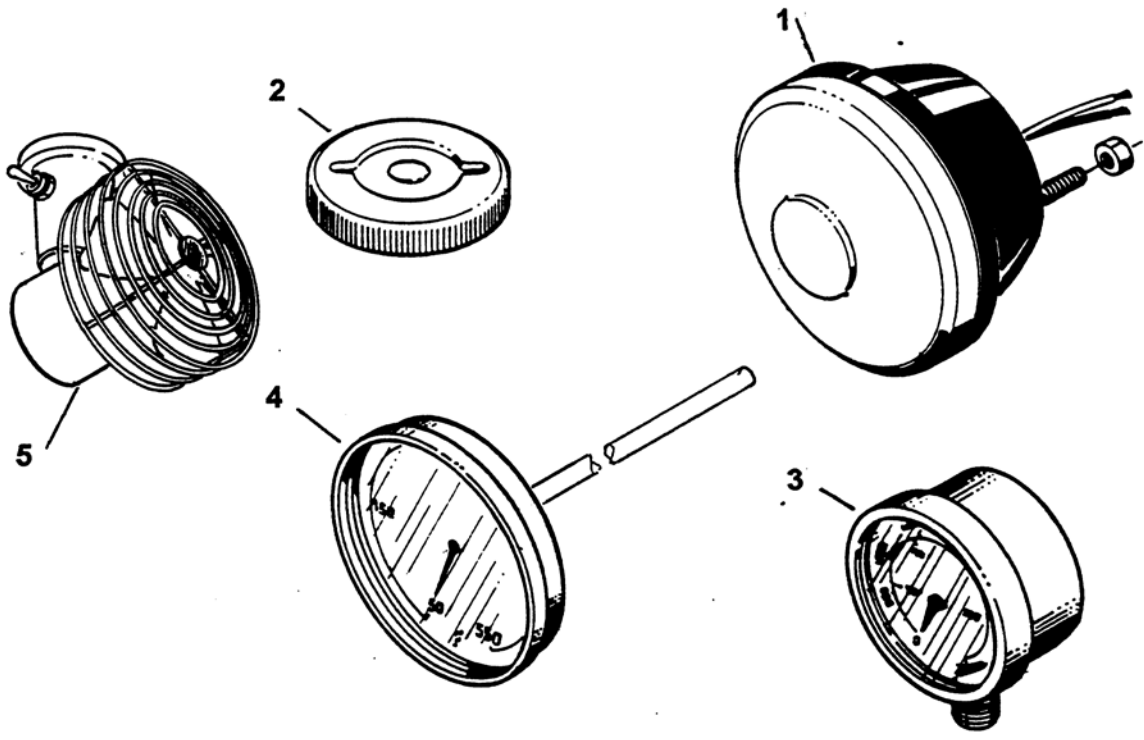
ITEM NO.	PART NO.	DESCRIPTION	QTY.
<b>WHEELS AND TIRES (REAR)</b>			
1	340010	TIRE & WHEEL ASSY.	1
2	340020	LUG, RIM LOCKING	5
3	340030	RIM	1
4	340040	CAP, DUST	1
5	340050	DRUM, BRAKE	1
6	340060	HUB (SPECIFY LEFT OR RIGHT) REFER TO PAGE	1
7	340070	BRAKE SHOE (NOT SHOWN) REFER TO PAGE	2
8	340080	LUG NUT	5
9	340090	STUD	
<b>ENGINE ACCESSORIES</b>			
1	320010	RAIN CAP, (DIESEL)	1
2	320020	EXTENSION, MUFFLER	1
3	320030	CLAMP, MUFFLER	1
4	320040	MUFFLER	1
5	320070	GUARD, FAN (DIESEL)	1
6	320080	GUARD, BELT (DIESEL)	1
7	320090	BELT, FAN (NOT SHOWN)	1
<b>STEERING ASSEMBLY</b>			
1	300010	HORN BUTTON	1
2	300020	NUT	1
3	300030	STEERING WHEEL	1
4	300040	STEERING COLUMN	1
5	300050	STEERING MOTOR	1



# WHEEL HUB AND BRAKE ASSEMBLY



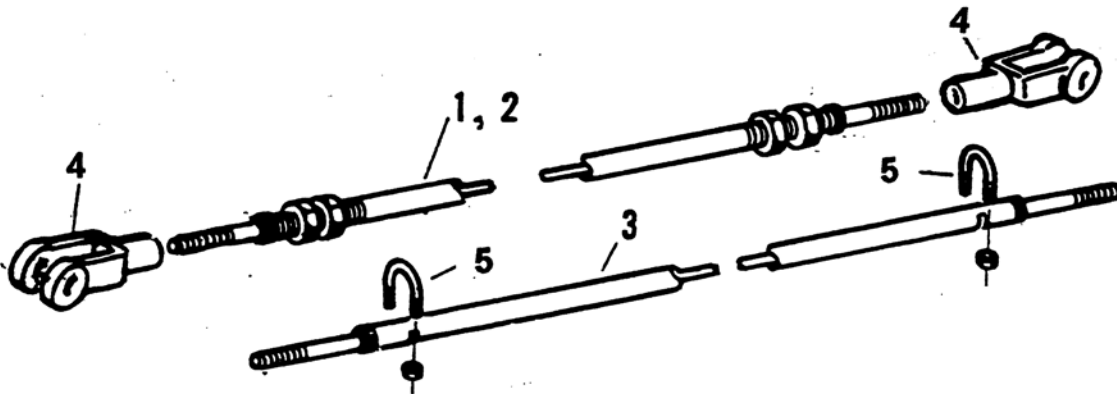
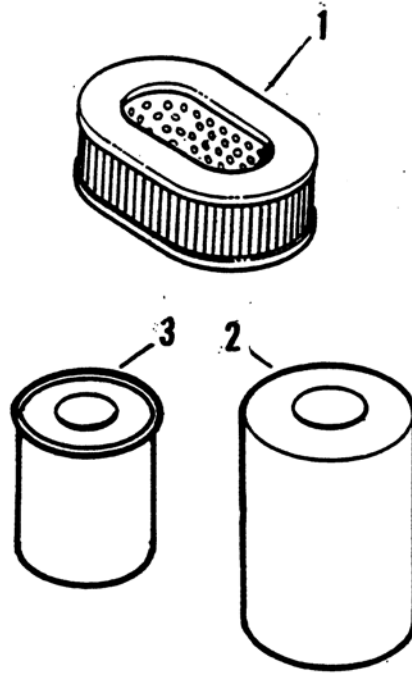
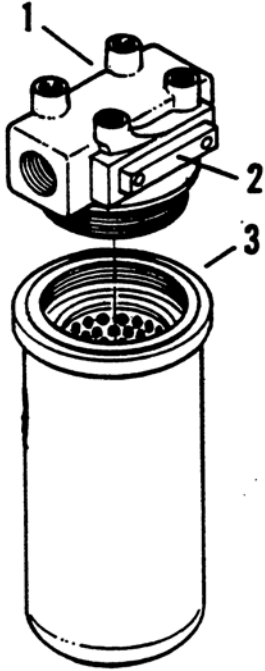
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
1	340060L	BACKING PLATE, BRAKE (L.H.)	1
1A	340060R	BACKING PLATE, BRAKE (R.H.)	1
2	340100	MAGNET, BRAKE ACTUATING	1
3	340070	BRAKE SHOE KIT	1
4	340110	ADJUSTER, BRAKE	1
5	340120	SPRING, ADJUSTER	1
6	340130	SPRING, RETRACTOR	1
7	340140	SEAL	1
8	110290	BEARING, CONE	1
9	110280	BEARING, CUP	1
10	340050	BRAKE DRUM	1
11	340160	STUD	1
12	340170	BEARING, CUP	1
13	340180	BEARING, CONE	1
14	340190	WASHER	1
15	610260	NUT	1
16	620200	CAP, DUST	1



# GAUGES, LAMPS, CANOPY AND SEAT ASSEMBLY



<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY.</b>
<b>GAUGES AND LAMPS</b>			
1	330050	LAMP, TAIL	2
2	330020	CAP, FUEL OIL	1
3	330030	GAUGE, HYDRAULIC PRESSURE	1
4	330040	GAUGE, TACK TEMPERATURE	1
5	1000-12	FAN, CAB	1
<b>CANOPY AND SEAT ASSEMBLIES</b>			
1	360010	SEAT	1
2	360022	SEAT SUPPORT	1
3	360031	ADJUSTING BOLT	1
4	360042	CANOPY	1



# HYDRAULIC FILTERS, ENGINE FILTERS, AND CABLE ASSEMBLIES



ITEM NO.	PART NO.	DESCRIPTION	QTY.
<b>HYDRAULIC FILTERS</b>			
1	290010	FILTER HEAD	1
2	290020	INDICATOR	1
3	290030	FILTER ELEMENT	1
<b>ENGINE FILTERS</b>			
1	310060	ELEMENT, AIR FILTER (DIESEL)	2
2	310070	ELEMENT, OIL FILTER (DIESEL)	1
3	310080	ELEMENT, FUEL FILTER (DIESEL)	1
<b>CABLE ASSEMBLIES</b>			
1	350010	CABLE, THROTTLE	1
2	350010	CABLE, GRINDER CONTROL	1
3	350020	CABLE, RIGHT HAND CONTROL	3
4	350050	YOKE, CABLE END	10
5	350060	CLAMP, CABLE	6

- 1 **FLAMMABLE**  
540020
- 2 **WARNING**  
DO NOT REMOVE WHILE ENGINE IS RUNNING.
- 3
- 4 **WARNING**  
**FLAMMABLE**  
KEEP TAR LEVEL 3" ABOVE BURNER IN USE.  
DO NOT EXCEED 150°F IN TACK TANK UNLESS OTHERWISE SPECIFIED BY MATERIAL MANUFACTURER
- 5 **IMPORTANT**  
TEST ELECTRIC EMERGENCY BRAKES DAILY AND KEEP ADJUSTED.
- 6 **WARNING**  
PINCH POINT  
RAISE SCREED SLOWLY  
KEEP HANDS AND FEET CLEAR OF AUGERS AND CONVEYOR BELT.
- 7 **WARNING**  
HYDRAULIC OIL ONLY  
KEEP CLEAN  
340001-4
- 8 **DO NOT OPERATE OR TOW THIS MACHINE WITHOUT FIRST FULLY UNDERSTANDING THE CONTENTS OF THE OPERATORS MANUAL.**  
340001-7
- 9 **CALIFORNIA Proposition 65 Warning**  
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.  
940004-26
- 10 **DANGER**  
KEEP FEET CLEAR WHEN MACHINE IS MOVING.
- 11 **WARNING**  
KEEP HANDS AND FEET CLEAR WHEN OPERATING MACHINE.
- 12 **SPRAY DOWN**
- 13 **LIQUID ASPHALT**  
OFF → ON  
151070
- 14 **FAST GRINDER CONTROL SLOW**
- 15 **THROTTLE**
- 16 **THROTTLE**  
FORWARD REVERSE
- 17 **FORWARD REVERSE**
- 18 **PARKING BRAKE**
- 19 **DIESEL FUEL TANK KEEP CLEAN**  
540050
- 20 **TACK PUMP FLUSH**  
151060
- 21 **RAISE HOPPER LIP 5 TO 6 INCHES BEFORE MOVING.**
- 22 **FAN**
- 23 

DOWN	SCREED	SCREED		
LIP	FLOAT	EXTENSION	AUGER	MAIN
UP		SHOULDER	SHOULDER	CONVEYOR
		EXTENSION	CONVEYOR	
- 24 **THINNER** **THICKER**
- 25 

FORWARD	DOWN	DOWN	UP	UP	OUT			
TACK PUMP	TONGUE	GRINDER	LIP	GRINDER LIFT	SCREED LIFT	SCREED EXTENSION	SCREED AUGER	CONVEYOR
REVERSE	UP	TILT	UP	DOWN	FLOAT PULL	IN		
- 26 **PUSH EMERGENCY BRAKE**
- 27 **DO NOT REMOVE NOZZLE FROM SPRAY WAND WHILE ENGINE IS RUNNING**  
5 040
- 28 **3 2 1 0 1 2 3**
- 29 **LeeBoy**  
MADE IN USA
- 30
- 31 **0 1 2 3 4**
- 32 **32**  
**33**
- 34 **"EQUIPMENT DESIGNED WITH THE PAVING MAN IN MIND"**  
**LEE-BOY MFG. CO.**  
(704) 483-9721  
DENVER, NORTH CAROLINA 28037

# DECALS AND LOCATIONS



ITEM NO.	PART NO.	DESCRIPTION	QTY.
	330060	Decal set, consists of decals 1 thru 36.	1
1	151010	On flush & diesel tank by filler neck, also on propane locking strap.	3
2	987100	On propane locking strap, center position.	1
3	978800	On back side of operators seat, right side & left side of operators platform.	7
4	1510030	On right side of tack tank filler neck.	1
5	228190	On top of forward/reverse control box, left side.	1
6	228170	On right hand control, left of steering column.	1
7	540040	To the front of the filler neck on hydraulic tank.	1
8	540010	Right upper comer of panel below control levers.	1
9	540200	Below item 8.	1
10	228150	On protective front box, centered on top.	1
11	987200	Side of grinder, as shown.	1
12	123490	On instrument panel above spray down switch.	1
13	151070	On auger chain guard, above tack on/off valve.	1
14	988200	Upper left comer of panel below control valves.	1
15	540070	On support arm of left hand steering column.	1
16	987700	On panel right of right steering column.	1
17	540080	Above forward/reverse lever.	1
18	984700	Next to parking brake below control levers.	1
19	540050	Close filler neck toward front of diesel fuel tank.	1
20	151060	Above flush valve on auger chain guard.	1
21	987500	On panel below control valves, upper edge toward center.	1
22	228210	On instrument panel below fan switch.	1
23	988000	In front of hand control levers.	1
24	974900	Ahead of flight screw, on screed.	1
25	988500	On display plate ahead of control levers.	1
26	988400	On bracket extending from left hand steering column. Also on bracket extending from right hand steering column.	1
27	151040	Centered & to the front of tack tank filler neck.	1
28	988100	Position so grinder angle pointer is centered to decal when grinder is horizontal to the machine.	1
29	151100	Centered on front of the flush tank & centered on engine cover facing to rear.	1
30	151090	On decals items 34135. Also on flush tank one facing the front & one on the rear.	1
31	987800	About 5" up on inside of grinder depth control marker.	1
32	987300	On left hopper wing as shown.	1
33	987400	On right hopper wing as shown.	1
34	151050	Below breather pipe on left side of tack tank.	1

