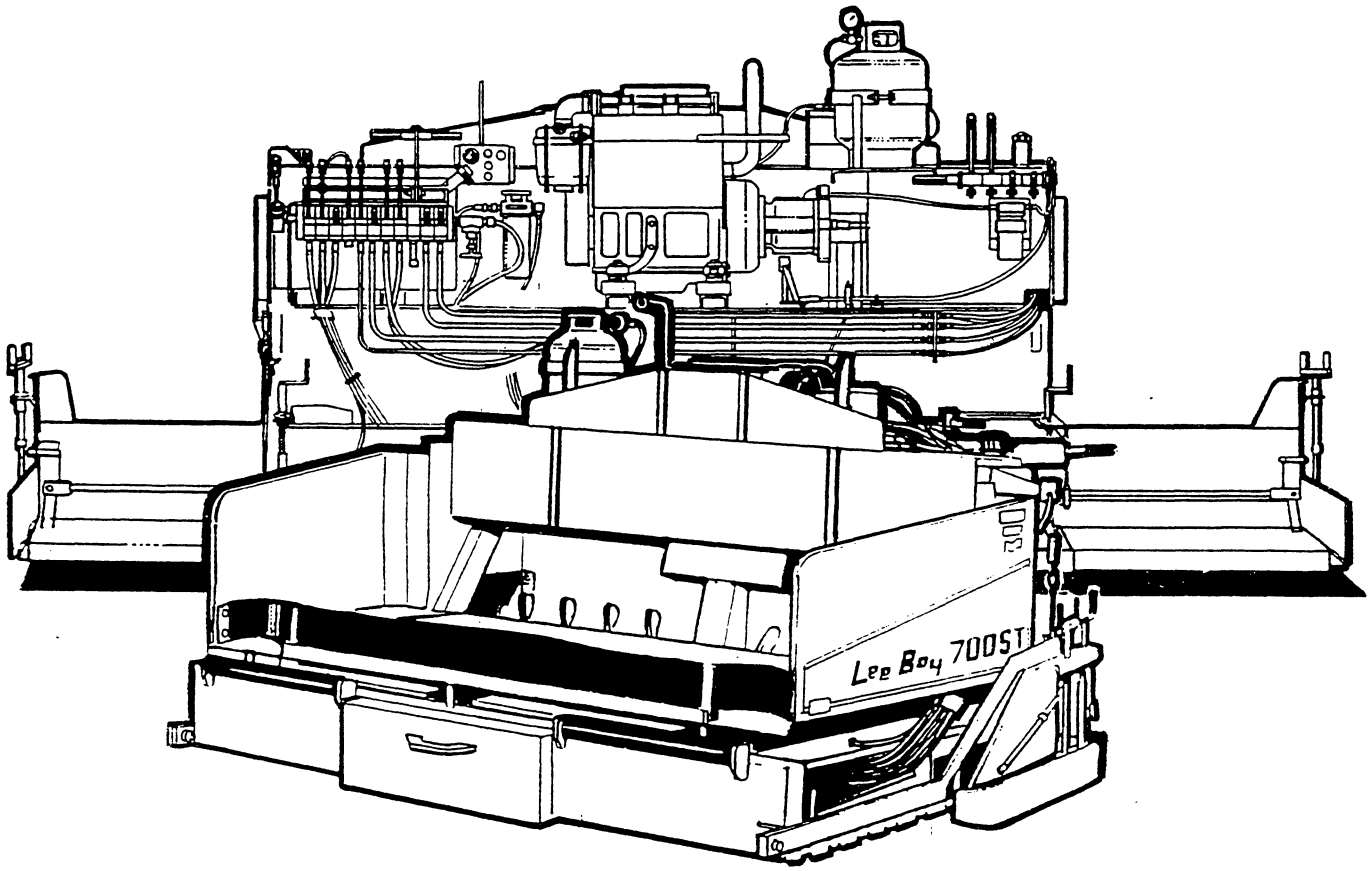
LeeBoy

OPERATORS MAINTENANCE AND PARTS MANUAL



MODEL 700 PAVER

(8 AND 9 FT.)
MANUAL NO. 7000196

LEEBOY
688 Highway 16 North • Denver, North Carolina 28037
PHONE: A.C. 704-483-9721 • FAX # 1-704-483-5802

USER'S REFERENCE INFORMATION

DELIVER DATE_____

TYPE ENGINE_____

DEALER'S NAME & ADDRESS

_____

_____

_____

_____

EQUIPMENT SERIAL NO._____

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 cancer, birth defects, and other reproductive harm.

SAFETY NOTICE

All danger points about the 700 Paver 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 damaged or malfunction resulting from misuse, failure to follow recommended maintenance requirements, alteration, accident or fire.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OF 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.

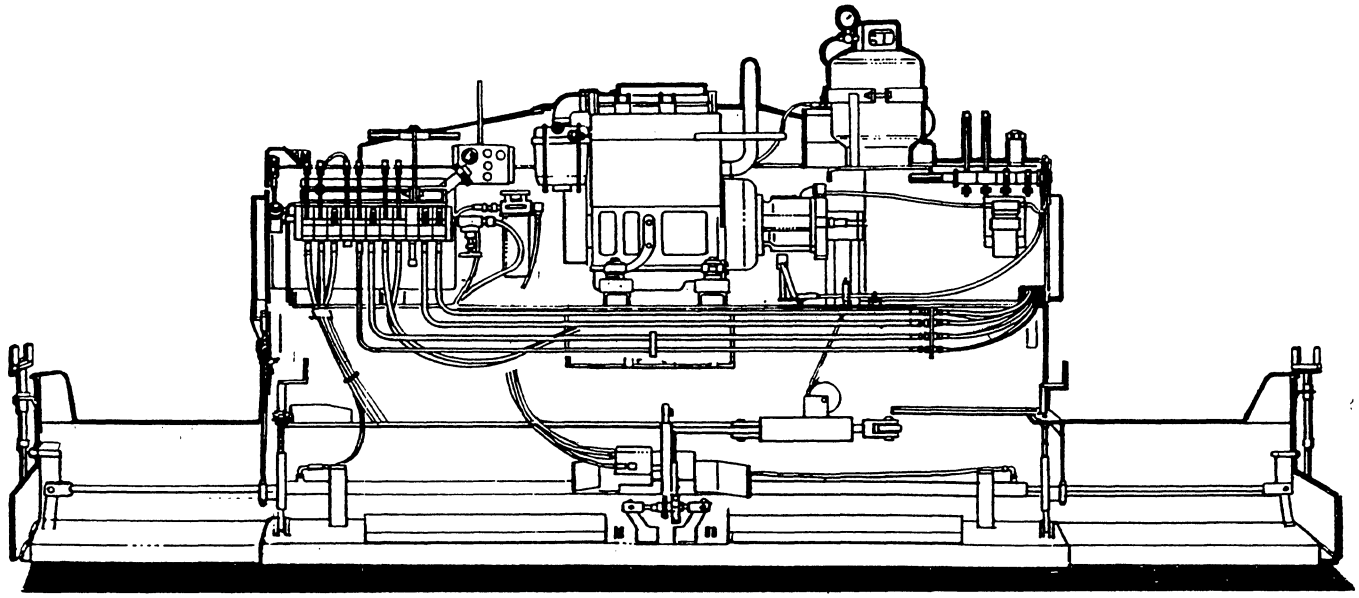
B.R. Lee Industries, Inc. does not authorize any person to amend or extend this limited warranty on its behalf.

INDEX

*** MUST HAVE MODEL & SERIAL # TO PLACE PARTS ORDER**

INDEX
(continued)

*** MUST HAVE MODEL & SERIAL # TO PLACE PARTS ORDER**



REAR VIEW

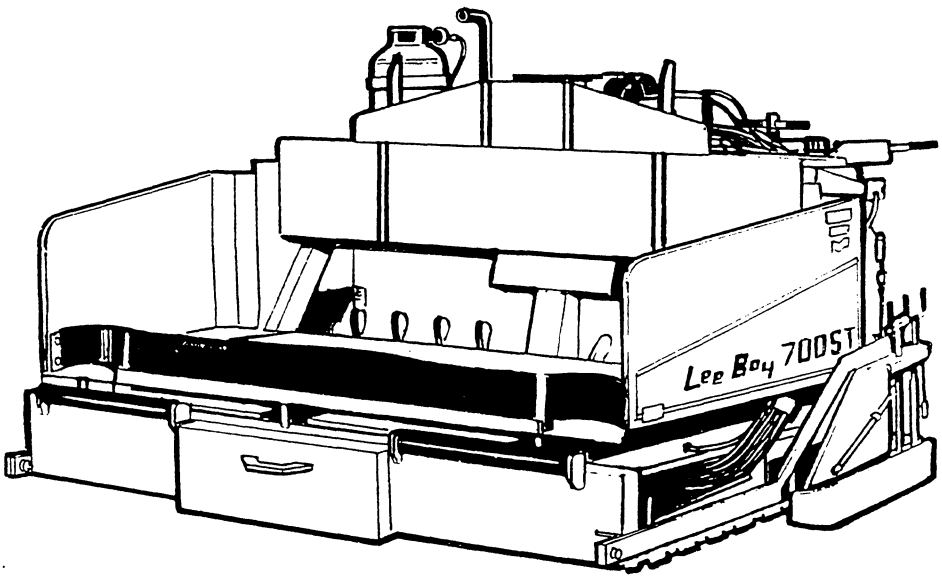
MANUAL INFORMATION

MODEL 700 8' & 9' ASPHALT PAVER OPERATORS, MAINTENANCE AND PARTS MANUAL

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.



3/4 FRONT VIEW

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 and in Section 1 will help provide for your safety, for the safety of those around you, and for the paver'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 !

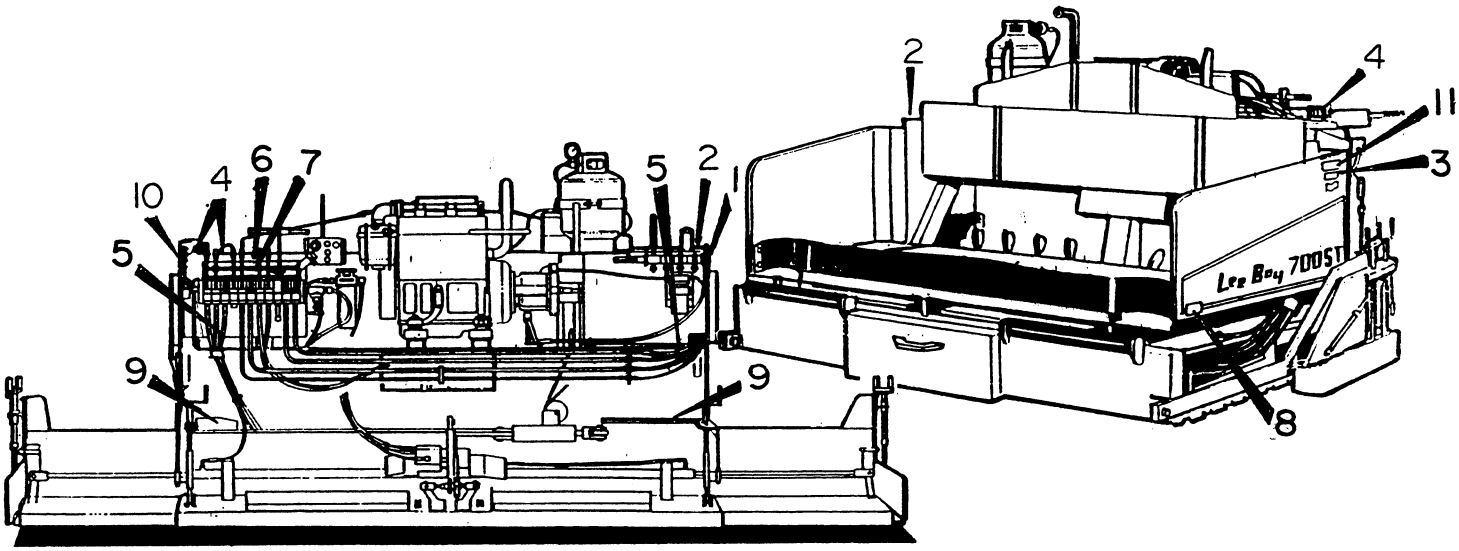
CAUTION safety notes are **ALSO** very important. They point out to you where your mistakes could cause **PHYSICAL HARM** to you or others, or damage to the machine.

SAFETY PRECAUTIONS

If your paver has been repainted, it is extremely important that all the decals referring to cautions, warnings and danger be replaced in their proper locations. The illustrations on this page will aid you in determining the proper locations, however for additional help, you should refer to the part 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.

! IMPORTANT ! ! IMPORTANT !

It is the responsibility of the owner and operator to make sure that all decals are readable and located on paver as designated by manufacturer.



DANGER

DO NOT FILL FUEL TANK WHILE ENGINE IS RUNNING OR SCREED IS BEING HEATED

1

WARNING

DO NOT USE ELECTRIC SPRAY SYSTEM WHEN BURNERS ARE IN USE

2

DANGER
PINCH POINT

CAUTION

DO NOT SPRAY FUEL OIL ON TIRES.

3

WARNING

HYDRAULIC OIL ONLY KEEP CLEAN

4

DANGER

Keep Hands & Clothing Clear of Augers & Conveyors

5

DO NOT OPERATE OR TOW THIS MACHINE WITHOUT FIRST FULLY UNDERSTANDING THE CONTENTS OF THE OPERATORS MANUAL.

6

IMPORTANT

WHEN CHANGING GEARS MOVE DRIVE LEVERS FORWARD AND REVERSE GENTLY, WHILE APPLYING ABOUT 15 LBS. PRESSURE ON SHIFTER HANDLE. THIS WILL ELIMINATE TRANSMISSION DAMAGE.

7

DANGER

Always Keep Guidebar Latched While in Transit (Keep All Adjustments Tight)

8

WARNING ALWAYS FOLD SIDEWINGS ON HOPPER OUT TO WORKING POSITION BEFORE RAISING TO AVOID DAMAGE.

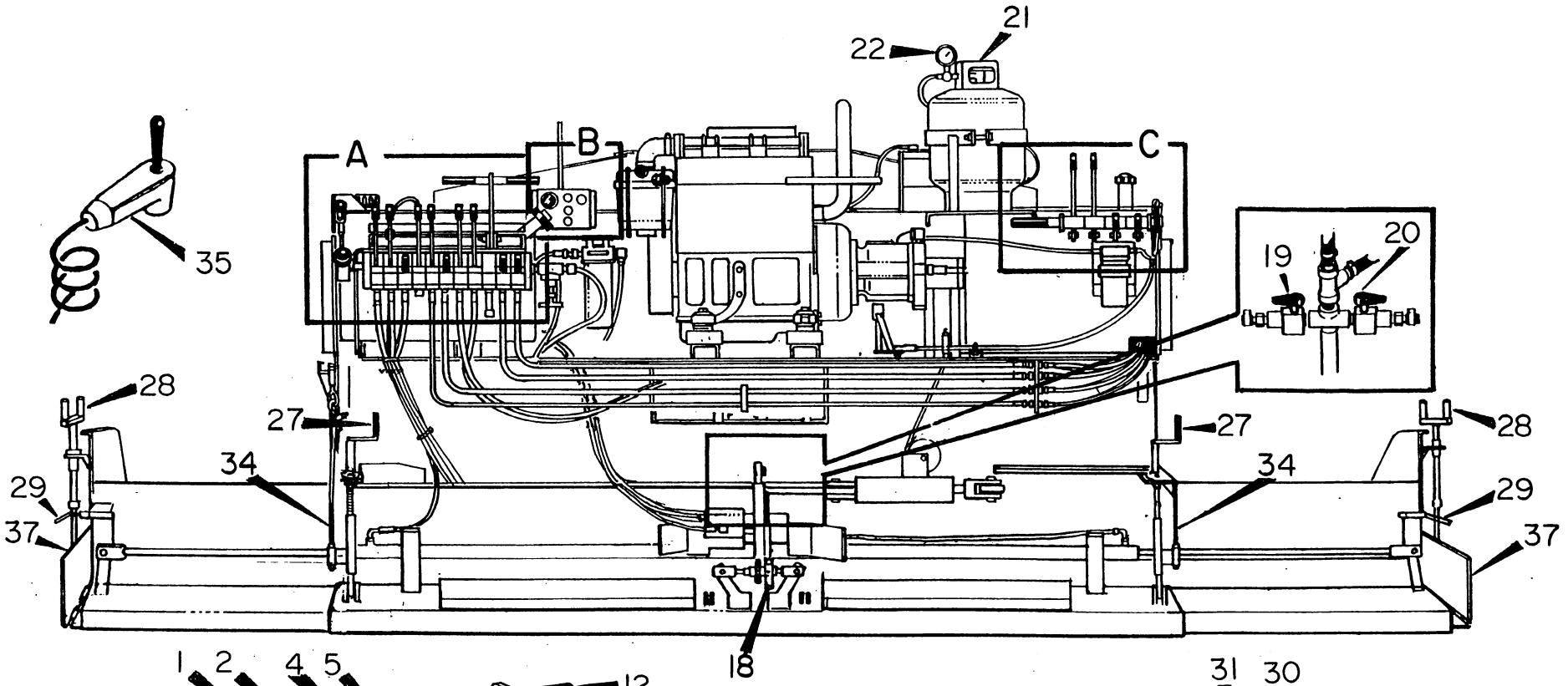
11

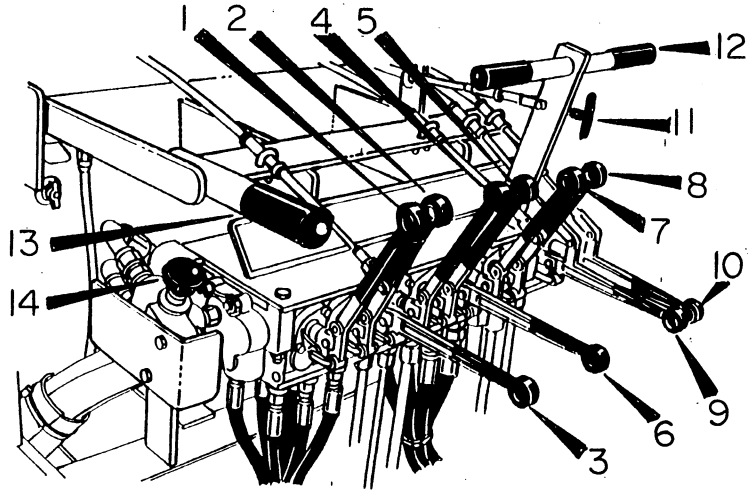
DANGER
PINCH POINT

9

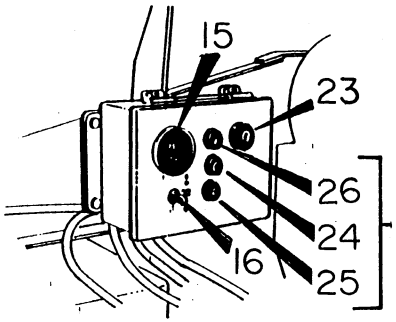
DANGER... DO NOT ATTEMPT TO SHIFT HIGH AND LOW GEAR LEVER UNLESS MACHINE IS SITTING LEVEL BY OPERATOR'S EYE.

10





VIEW IN BOX 'A'



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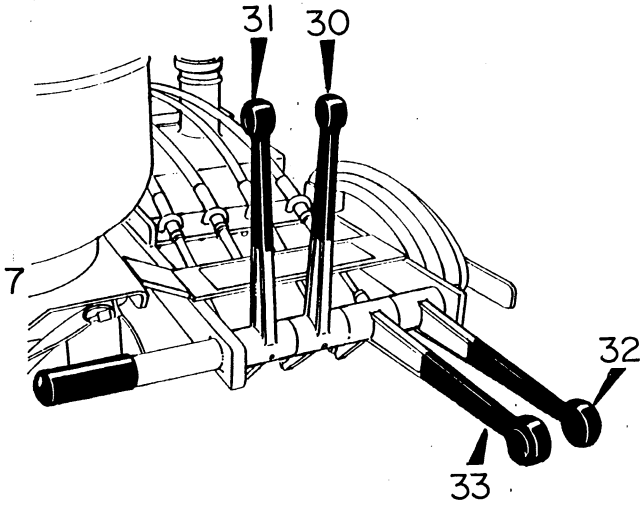


VIEW IN BOX 'C'

OPERATING CONTROLS AND DESCRIPTIONS - 700

CONTROLS	DESCRIPTION
1. Screed Extension, Left	Extends and Retracts Left Screed Extend
2. Screed Extension, Right	Extends and Retracts Right Screed Extend
3. Screed Lift	Raises and Lowers Screed
4. Cut Off, Left	Stops Asphalt Flow Under Left Auger
5. Cut Off, Right	Stops Asphalt Flow Under Right Auger
6. Raise Hopper	Changes Angle of Hopper
7. Auger, Left	Distributes Asphalt to Left Screed Extension
8. Auger, Right	Distributes Asphalt to Right Screed Extension
9. Drive, Left	Forward and Rearward Drive of Left Track
10. Drive, Right	Forward and Rearward Drive of Right Track
11. Throttle	Controls Engine Speed
12. Speed Control	Controls forward and rearward speed
13. High and Low Gear, Shifter	Select High and Low Gear (high travel, low paving)
14. Vibrator	Helps compact asphalt
15. Hour Meter	Indicates hours on machine
16. Spray Down	Used for Cleaning
17. Oil, Alt. & Temp. Lights	Indicates oil pressure, charging, & overheating
18. Crown and Valley Lever	Adjust The Crown or Valley Screed
19. Left Burner	Controls Flow of Propane to Left Screed Burner
20. Right Burner	Controls Flow of Propane to Right Screed Burner
21. Propane Tank Main Valve	Opens and Closes Propane Line Pressure
22. Propane Tank Pressure Regulator	Regulates Propane Pressure

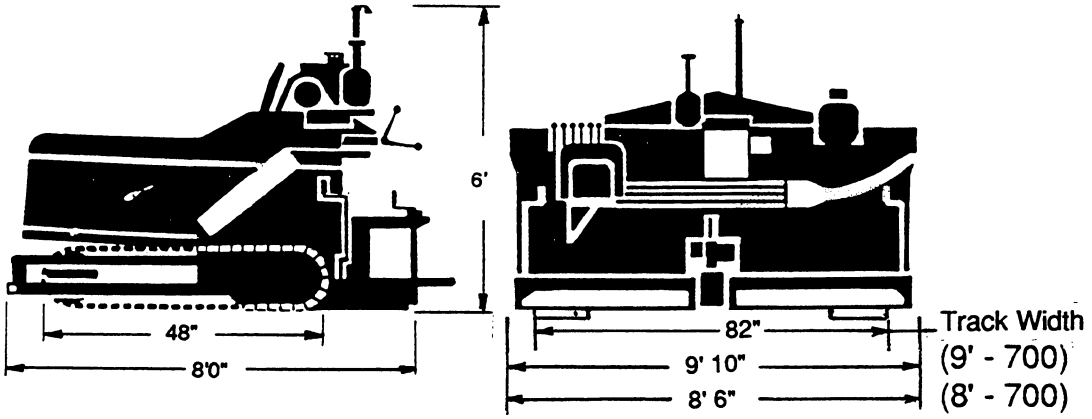
CONTROLS	DESCRIPTION
23. Ignition	To Start Engine
24. Oil Warning Light	Indicates Low Oil Level
25. Temperature Warning Light	Indicates Dirty Filter
26. Battery Discharge Light	Indicates Low or No Charge
27. Thickness Control Lever	Fine Control of Material Depth
28. End Gate Control Handle	Sets End Gate to Desired Depth
29. Tilt Control Handle	Changes Pitch of End Gate
30. Lever, Screed Ext. Right	Extends and Contracts Screed, Right
31. Lever, Auger, Right	Distributes Asphalt to Right Screed Extension
32. Right Side Drive Control, Right	Forward and Rearward Drive of Right Track
33. Right Side Drive Control, Left	Forward and Rearward Drive of Left Track
34. Screed Level Indicator	Indicates Position of Screed
35. Screed Depth Remote Switch Thickness (Option)	Raises and Lowers Screed Toepoint For Depth Adjustment
36. Guide Bar (Not Shown)	Alignment of Paver to Paving Area
37. Joint Matcher	Helps Even Asphalt Joint

OVERVIEW

Lee-Boy pavers are designed with the paving man in mind. They are tough machines, built with fewer moving parts.

You will be pleased with the simplicity and versatility of this machine.

If you have any questions about the safe use or maintenance of this paver. ASK YOUR SUPERVISOR OR CONTACT ANY LEE-BOY DISTRIBUTOR. NEVER GUESS — ALWAYS CHECK.



SPECIFICATIONS

ENGINE: Gas 23 H.P. OPTION: Diesel 30 H.P.

FUEL RESERVOIR: 13 U.S. gallons

EMPTY WEIGHT: 8000 lbs.

OVERALL LENGTH: 8 feet 0 inches

OVERALL WIDTH: 9 feet 10 inches (9' / 700)
8 feet 6 inches (8' / 700)

OVERALL HEIGHT: 6 feet

***STANDARD VARIABLE PAVING WIDTHS:** 0 to 2 feet, $4^1/_2$ feet to $6^1/_2$ feet, and 9 feet to 13 feet.

***STANDARD VARIABLE PAVING WIDTHS:** 0 to 2 feet, 4 feet to 6 feet, and 8 feet to 12 feet.

PAVING DEPTH: Adjustable paving depth from 0 to 6 inches.

SCREED: Full free floating 15 inch wide with propane heated screed equipped with (2) 54,000 BTU burners and OPTION: (Hydraulic vibrator with frequency of 2200 VPM).

SCREED EXTENSIONS: Two 24 inch hydraulically operated heated and vibrated extensions.

SCREED CROWN INVERT: 2 inch crown/invert adjustment.

MATERIAL FLOW GATES: Two independent hydraulically operated flow gates under the Augers.

PUSH ROLLERS: Two rollers with sealed bearings.

MATERIAL AUGERS: Two independent heavy duty hydraulically operated 9 inch augers X $^3/_8$ inch thick A36 steel.

SPECIFICATIONS (Cont'd.)

HYDRAULIC RESERVOIR: 45 U.S. gallons

HYDRAULIC SYSTEM: Variable volume hydraulic pump for drive and a hydraulic pump for other hydraulic components.

TRACK DRIVE SYSTEM: Hydrostatically powered self cleaning and self adjusting 14" wide tracks; Drive mechanism consists of dual two speed gear boxes, allowing paving in low gear up to 70 FPM and taxing in high gear of 0 to 170 FPM.

STEERING: Independent track lever steering from left or right side of machine.

WASHDOWN SYSTEM: (Optional) Electric pump with (1) 15 foot hose and spray nozzle.

OPERATOR PLATFORM: Full machine width operator platform.

OPERATOR CONTROLS: Operating control levers on both left and right side of machine.

OPTIONS:

- Right hand and left hand seat
- (12) 5 inch X 18 inch super soft solid rubber tires (All Pulling) - (9 feet to 13 feet paving width)
- (10) 5 inch X 18 inch super soft solid rubber tires (All Pulling) - (8 feet to 12 feet paving width)
- Automatic Augers
- Automatic Ignitors
- Roll up curb attachment
- Automatic grade and slope
- Electric screw controls

SAFETY PRECAUTIONS AND GENERAL INFORMATION

PRE-START INSPECTION

INSPECT machine. Have any malfunctioning, broken or missing parts corrected or replaced before using. Hydralic hoses should be checked daily for wear and leaks. Replace if damaged.

CHECK that all the instruction and safety labels are in place and readable. These are as important as any other equipment on the machine.

READ and FOLLOW all instruction decals.

WEAR OSHA required safety equipment when running the paver.

FILL the fuel tank with the engine off. Never fill near an open flame, when smoking or when screed heat is on.

CLEAR auger & feeders before starting engine. And make sure all covers and guards are in place.

OPERATING SAFETY NOTES

ALWAYS make sure no person or object is in your line of travel BEFORE starting.

WORK slowly in tight areas.

DO NOT run engine in a closed building. NEVER spray fuel oil on or near screed while it is being heated.

AVOID steep hills if possible.

DO NOT shift transmissions on grades.

ALWAYS look BEFORE changing your direction of travel.

DO NOT pave in high speed range, use it only for travel. Do not counter rotate machine in high range.

NEVER open a valve to burner unless a flame is present. Heat screed for no more than 5 minutes. Make sure all valves are closed after burner is turned off.

NEVER leave engine running without operator present.

STOPPING SAFETY

ALWAYS park the paver on solid, level ground, in low range. IF this is not possible, always park the paver at a right angle to the slope, lower screed when parked.

USE proper flags, barriers and warning devices especially when parking in areas of traffic.

MAINTENANCE SAFETY

NEVER work on the paver with the engine running.

NEVER fill the fuel tank with the engine running.

DO NOT change the engine governor settings.

ALWAYS replace damaged or lost decals.

DISCONNECT battery cables when working on the electrical system, or when welding on the unit.

IF battery needs a charge be sure battery charger is off when making connections.

When connecting a battery charger or jumper cable, BE SURE the correct battery polarity is observed (negative (-) to negative (-) and positive (+) to positive (+).

! DANGER !

NEVER WORK UNDER HOPPER WITHOUT PLACING SAFETY PROP IN POSITION. SEE FIGURE 1

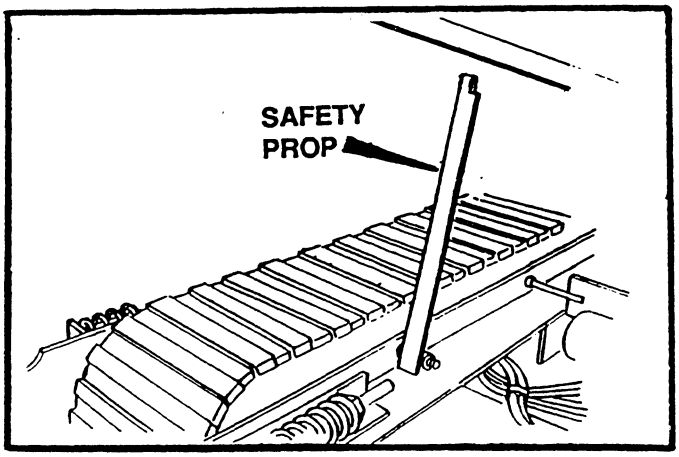


FIGURE 1

STARTING THE ENGINE

PRELIMINARY

Before you start the engine:

A. Check fuel level and check lines and tank for leaks.

B. Check crankcase oil level.

! CAUTION !

FAILURE TO MAINTAIN CORRECT OIL LEVEL IS THE GREATEST SINGLE CAUSE OF ENGINE FAILURES.

C. Check hydraulic oil level. Oil level is determined by petcock on hydraulic oil tank.

D. Make sure steering control levers are in neutral. Pull Speed Control T-Handle all the way back. (When T-Handle is all the way back contact with safety switch is made). Turn ignition switch to the right to start. See Figure 2.

E. Refer to engine operators manual for instructions when starting engine. Follow engine manufacturer's recommendations for fuel and oil.

NOTE

For your convenience, there is an extra key inside the switch box in case the original key is lost. (Diesel Only)

! WARNING !

COLD OIL CAN CAUSE BACK PRESSURE ON PUMP. ALWAYS ALLOW HYDRAULIC OIL TO WARM BEFORE OPERATING. TURN AUGER ON TO HELP WARM OIL.

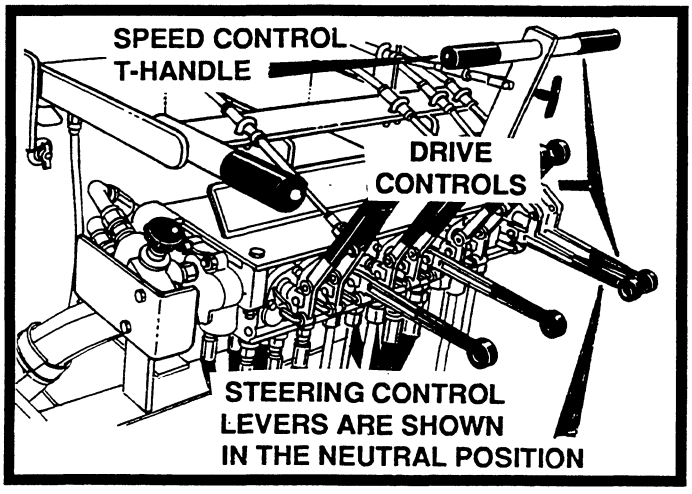


FIGURE 2

NOTE

The use of starting additives, such as ether, is not recommended.

! CAUTION !

DO NOT OPERATE THE STARTER LONGER THAN 30 SECONDS. IF THE ENGINE DOES NOT START, ALLOW THE STARTER TO COOL 2-3 MINUTES BEFORE TRYING AGAIN.

STOPPING THE ENGINE

1. Throttle engine down.

2. Turn ignition key to the "off" Position and remove.

PAVER DRIVING INSTRUCTIONS

GENERAL

The forward/reverse plus turning will require coordinated movement. The steering levers along with the interconnected hydraulic components make possible the positive control necessary. The following procedures plus illustrations in figures 3 and 4 will provide a working knowledge of operating the paver through forward/rearward and turning requirements.

1. After the paver has been started and the motor is warmed up, paver movements may be made.

2. To drive the paver forward, pull up on the steering levers together from the neutral position. To back up, push down on the steering levers from the neutral position. Refer to figure 3.

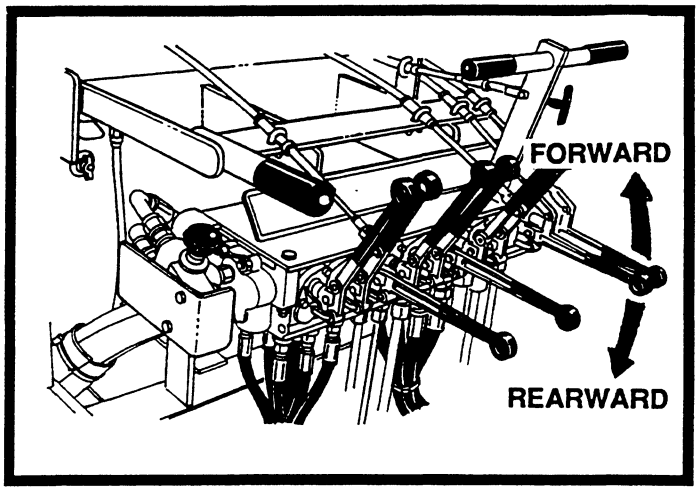


FIGURE 3

3. Depending on the direction of travel, turning the paver can be accomplished by pushing or pulling the steering lever on the inside of the turn toward the neutral position. See figure 4.

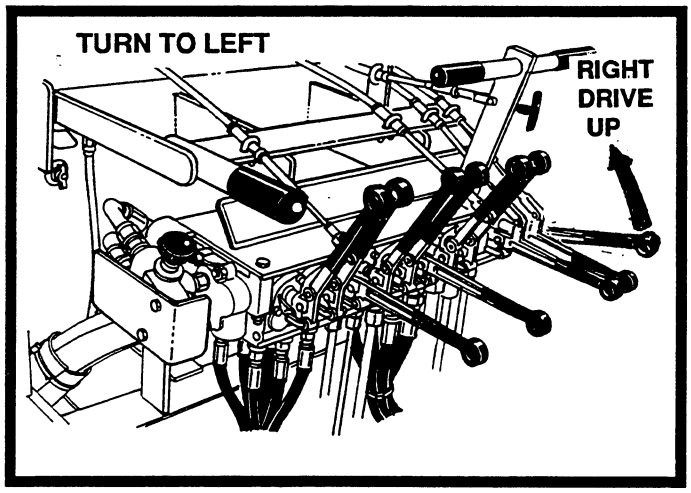


FIGURE 4

4. The traveling speed of the paver can vary greatly, depending on the steering lever position and the variable volume pump position. The operator may make any combination of speed selection with speed control handle (Tee Handle) while moving.

5. When making forward/rearward or turns, always make these moves slowly. Move the steering levers slow and smoothly in the direction of intended travel.

6. When stopping, move both steering levers to the neutral position.

7. When paving, a constant speed is necessary to lay a even asphalt mat.

8. To make a counter rotation movement, the steering levers are moved in opposite directions. The speed of rotation is controlled either with the speed control lever or the amount of metering on the steering control lever or combination of both speed control lever and steering control levers.

! CAUTION !

NEVER SHIFT TWO SPEED TRANSMISSION WHILE MOVING OR ON INCLINE.

RIGHT HAND OPERATION

The 700ST Paver provides the operator with the added convenience of operating from the right side. This will provide the operator with the ability to negotiate tight areas, follow the procedure below.

1. Stop the paver and move to the right side, set the guide bar so it will track over the guide line.

2. Check left side for hazzards or unauthorized personnel (Clear area on left side) it may be necessary to have an observer on the left side for added safety.

3. While sitting on the right side, have an assistant reset speed control lever and throttle setting to that used when operating from left side.

4. From the right hand side the operator will have control of steering right and left, also the use of the right auger and right screed extension. See figure 5.

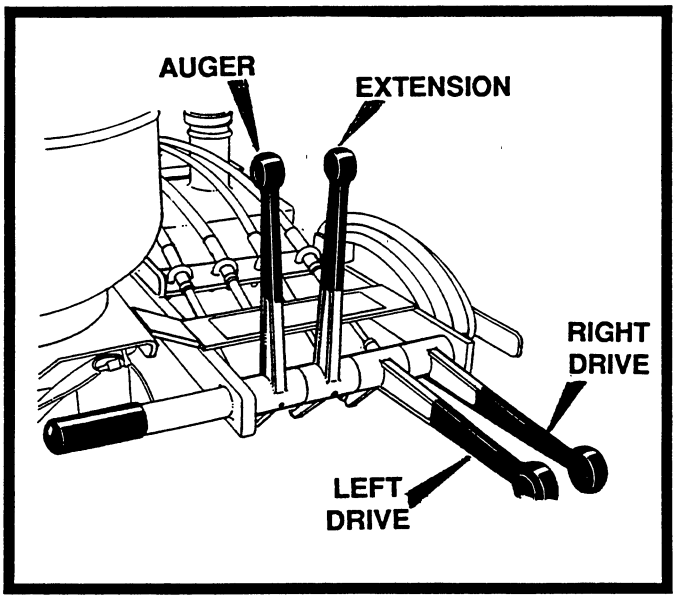


FIGURE 5

! CAUTION !

WHEN GOING DOWN GRADE TO STOP FREE WHEELING, INCREASE ENGINE RPM & SLOW SPEED CONTROL DOWN. DRIVE CONTROL METERING WILL ALSO CORRECT PROBLEM.

PAVING PREPARATION INSTRUCTIONS

LIGHTING BURNERS

GENERAL

The heating of the screed will require extreme care. The propane gas used to heat the screed is a voluble combustible that if treated with respect should not present a problem. Follow the procedures below and refer to the illustration as required.

1. Turn main valve on the propane tank counter-clockwise to "on" position as shown in figure 5.

2. Adjust pressure valve in or out until gauge reads between 6 and 8 pounds as shown in figure 6.

NOTE: AUTOMATIC IGNITORS (OPTION)

To light automatic burners, turn propane main valve on, push preheat button for 5 seconds, turn burner toggle on, when screed has heated, switch off. TURN PROPANE BOTTLE OFF DAILY. See figure 6.

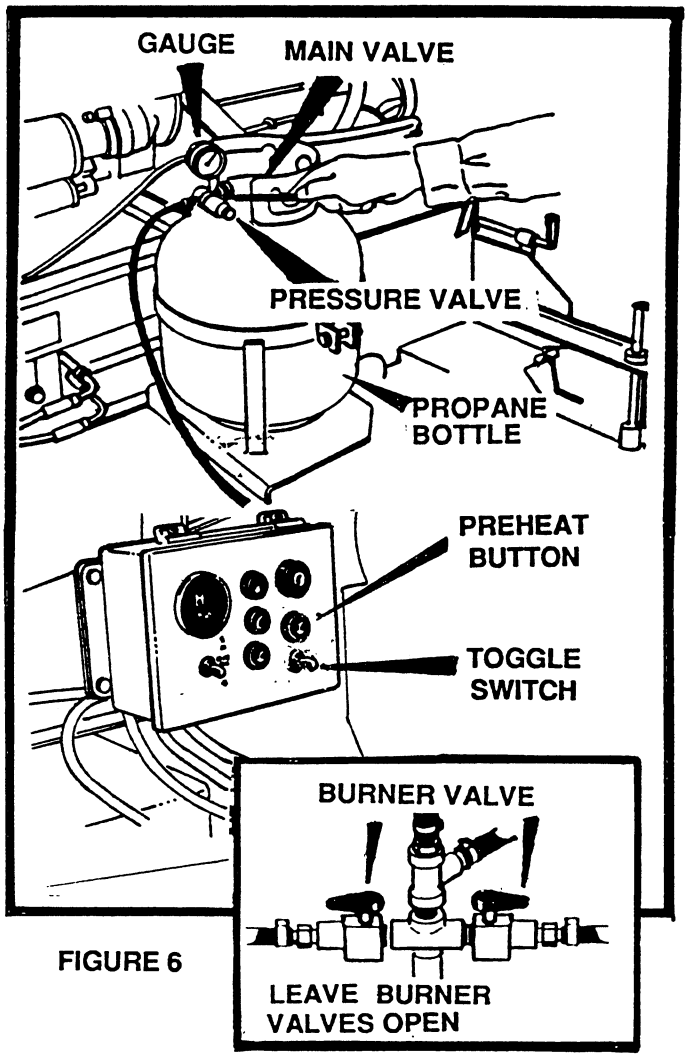


FIGURE 6

3. Light ignitor as you open the ignitor valve. See figure 7.

4. Direct ignitor flame into opening at end of main burner, and turn burner valve to "on" position. When the burner is lit, follow same procedure for burner on opposite side as shown in figure 8.

5. Heat screed for no more than five to ten minutes before paving.

6. When turning off the burners, make sure that all valves are closed, including the main valve on the propane tank.

! CAUTION !

NEVER OPEN A VALVE TO BURNER UNLESS FLAME IS PRESENT. A BUILD UP OF UNBURNED GAS COULD RESULT IN A GAS EXPLOSION!

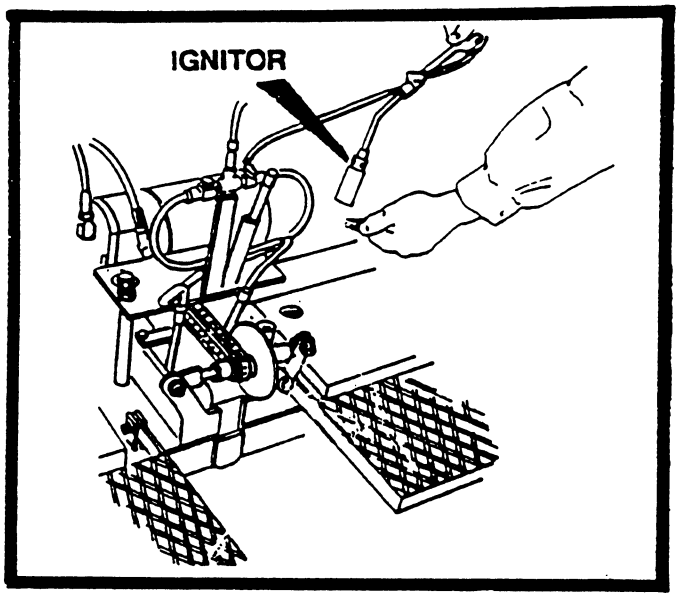


FIGURE 7

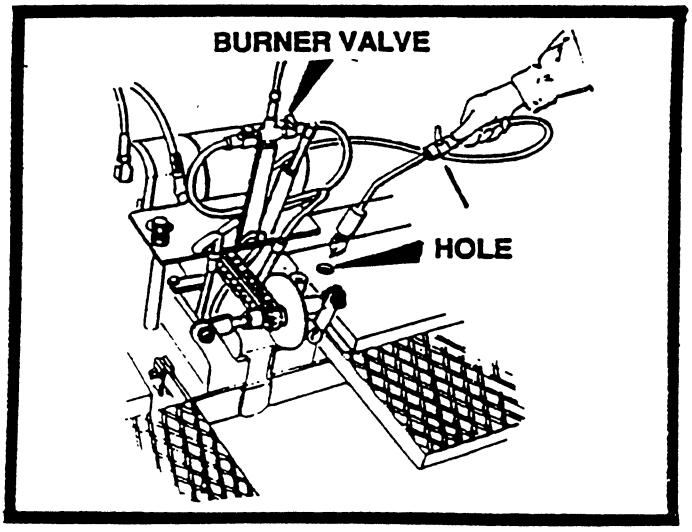


FIGURE 8

! CAUTION !

TOO MUCH HEAT FOR TOO LONG CAN WARP SCREED PLATE AND CAUSE MAT TEXTURE PROBLEMS. WARP SCREED SHOULD BE REPLACED.

! CAUTION !

IF FLAME COMES FROM END OF SCREED, SLOWLY TURN PETCOCK TO OFF. ALLOW FLAME TO GO OUT AND TURN PETCOCK BACK ON FULL.

NOTE

Heating the screed helps prevent hot mix from sticking to the cold screed plate and produces a smooth tight mat. Heating should not only be performed at the beginning of the job, but also if the machine is idle for a long time between loads (allowing screed plate to cool).

NOTE

If paving on a cool windy day it may be necessary to maintain low heat on the screed. To accomplish this, reduce the pressure on the propane tank from 6 - 8 pounds to 2 pounds. This will provide a low even heat that will not harm the screed. Do not attempt to regulate the burner with the burner valves.

OPERATION OF HYDRAULIC CUTOFFS

GENERAL

The cutoffs are one of the most important functions of the paver, when used properly. Cutoffs are used primarily to control the flow of asphalt to the screed. Cutoffs can be used when making narrow passes, at the beginning and ending of each pass or pull. The cutoffs have been designed to break away if accidently hits a man hole or ridge, this feature will prevent excessive damage to cutoff. (Tack underneath will break.)

1. Moving the hydraulic handle forward will increase asphalt flow to the screed pulling the handle back will decrease asphalt flow.

NOTE

Always work cutoff valve handle one at a time when opening or closing. If both handles are worked together, normally one will open or close before the other.

2. Always pull valve handles to close. If handle is allowed to return to center position on its own, it may pass center and cause cutoff to drift open once pressure is lost.

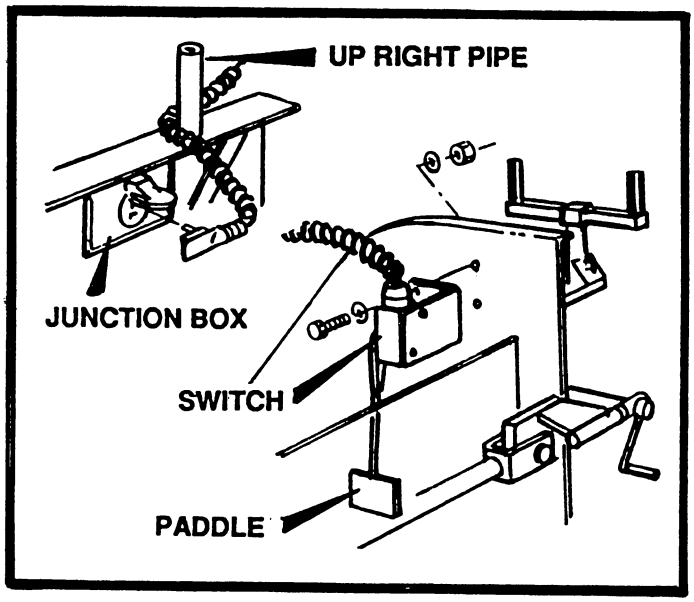


FIGURE 9

AUTOMATIC AUGER

GENERAL

Automatic augers are used when laying mats wider than standard paving width. When used this will lessen the work load on the operator.

1. To install the paddle on the screed extension; extend the screed 6 inches and mount paddle on end gate as shown. Install the same way on left end gate. See figure 9.

2. The routing of the electric cord is shown in figure 9 for right side. The left side electric cord should be placed over top of screed lift bracket to the outlet box.

3. IMPORTANT: After the paddle on screed extension has been mounted DO NOT RETRACT SCREED FULLY, DAMAGE WILL OCCUR.

! CAUTION !

WHEN USING AUGERS DO NOT TRY TO AUGER MATERIAL FROM ONE SIDE OF MACHINE TO THE OTHER SIDE. AUGER COVER IN CENTER BLOCKS THE FLOW. DAMAGE WILL RESULT IN BEARINGS AND COVER.

NOTE

When paving basic width of machine augers are not required to run.

ELECTRIC SPRAYDOWN

GENERAL

The spraydown on your machine is used to spray fuel oil on any part of the machine that comes in contact with the asphalt. Build-up of this material will cause damage to components. Spray these areas often, the screed extension on top and bottom, augers and hoppers. When using, follow the procedure below.

1. Unwrap the amount of hose needed and turn spray down switch on, pull wand handle and spray.

2. After spraying turn off spray down switch and rewrap hose.

3. IMPORTANT: When using spraydown consider the environment and do not allow fuel oil to run onto the ground.

! CAUTION !

IF SPRAY DOWN PUMP IS NOT TURNED OFF AFTER EACH USE, THE PUMP WILL RUN OVER BY PASS AND AFTER A PERIOD OF TIME WILL BURN UP MOTOR.

OPERATION OF ELECTRIC FLIGHT SCREW

GENERAL

The electric flight screw is a added convenience to the operator, this will provide easier control of both sides of the screed.

1. Before paving, center the electric flight screw on both sides of the paver. See figure 10.

2. While paving manual flight screws are used to make major depth adjustments. Use the electric flight screws to make minor adjustments.

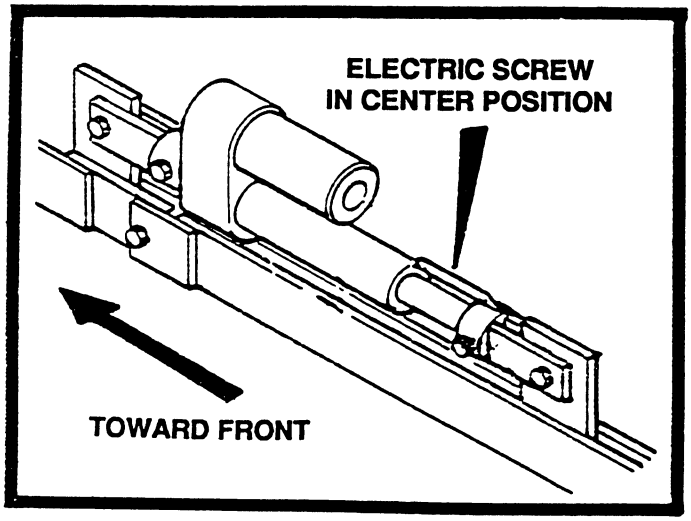


FIGURE 10

USE OF AUGER EXTENSIONS (OPTION)

GENERAL

The auger extensions should be attached to the main auger to increase the flow of asphalt. This will make it possible to lay asphalt at a higher rate. See auger extension attachment instruction below.

1. Identify the right and left auger extensions by looking for the L or R on the end of the auger extension shaft.

2. After identifying the right and left auger extension, extend the screed extension fully.

3. Shut off engine.

4. Remove bolt; nut cap on end of the main auger. Attach the correct side auger extension to the main auger with hardware just removed. Repeat this procedure for opposite side.

LOADING AND UNLOADING

GENERAL

Trailers used to haul the paver should have ample capacity to carry the weight of the paver. Place the trailer in a clear, level area for loading or unloading.

Work slowly and carefully to avoid accidents. Keep the area clear.

UNLOADING

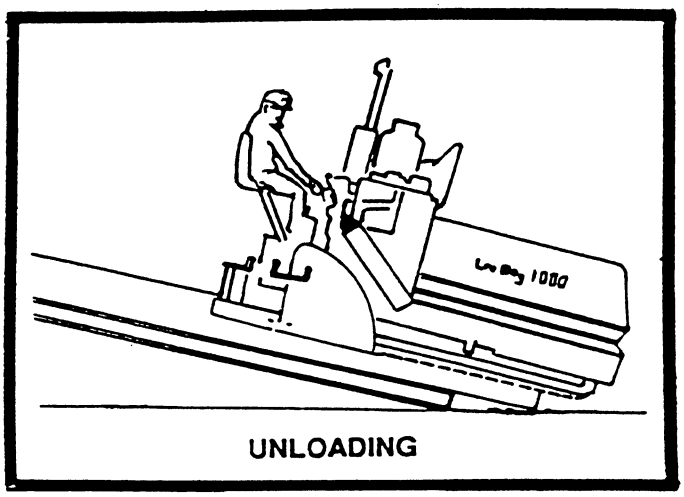
1. Remove tie down equipment.

2. Start and warm up engine.

3. Set throttle at 1/2 operating RPM, shift transmission into low range. Set steering control levers so paver moves very slowly.

4. Make sure:
   A. Screed position - UP
   B. Extendable screed - IN
   C. Gates below augers - CLOSED (Caution - Never back up with cutoff gates open.)
   D. Speed range - LOW **(Never shift Transmission on incline.)**

5. Move the paver forward down the ramp as shown in figure 11.



UNLOADING

FIGURE 11

! DANGER !

MAKE SURE THE ENGINE IS RUNNING AT HIGH ENOUGH RPM'S TO PROVIDE THE HYDRAULIC PUMP WITH ENOUGH GALLONS PER MINUTE TO FUNCTION PROPERLY.

NOTE

A man should always be on the ground to assist the operator in the unloading function.

! CAUTION !

DO NOT LET THE SCREED STRIKE THE RAMP WHEN MOVING OFF THE RAMP. THIS CAN BREAK THE BEARINGS ON THE THICKNESS CONTROL SCREWS OR WELDS ON THE LEVELING ARMS. A LONGER RAMP OR BLOCKS MAY BE NECESSARY TO REDUCE THE ANGLE OF UNLOADING.

NOTE

If you have a problem unloading the paver - STOP — LOOK — THINK !

LOADING

1. Move paver to base of ramp. Line up tracks with the ramp. Load paver screed end first. Set throttle at 1/2 operating RPM and steering control levers so paver moves very slowly onto the ramp.

2. Make sure:
   A. Screed position is - UP
   B. Extendable screed - IN
   C. Gates below auger - CLOSED
   D. Speed range-low **(Never shift transmissions on grade).**

3. With the steering control levers slowly guide the paver up the ramp. If the paver is loaded hopper first, the weight of the operator on the walkway will tend to tip the paver onto the screed. See figure 12.

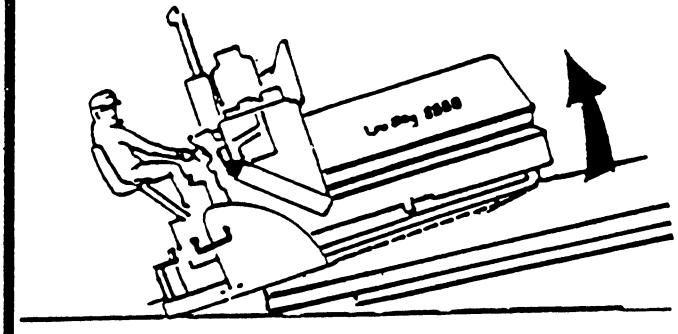
4. When the paver has reached the desired position and is centered on the transport.

5. Lower screed to deck.

6. Shut down engine.

7. Secure paver to transport as directed by regulations.

8. Always have a helper on the ground who can assist the operator in moving the paver onto the transport.



LOADING

FIGURE 12

TIE DOWN PROCEDURE

(See figure 13)

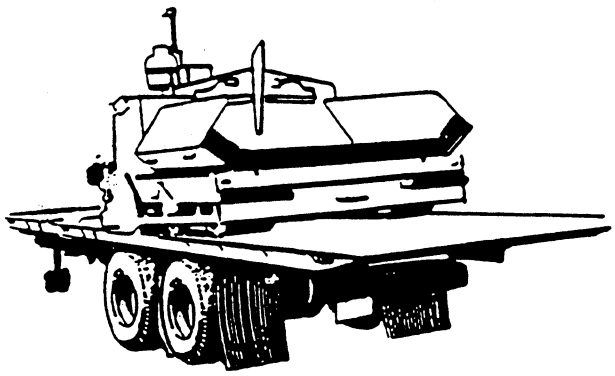
1. Position paver on trailer centered from side to side.

2. Attach tie down chain to the hopper end of paver at the center hook provided.

3. On the rear of the paver attach a tie down chain through the crown control frame or if desired through the tie downs on each side of the paver.

4. Place chocks at wheels or tracks.

5. Make sure all chains are tight before moving.



PAVER LOADED POSITION

FIGURE 13

STARTING TO PAVE

GENERAL

The paver is capable of placing bituminous base, binder and surface courses, lime or portland cement stabilized sub-base and graded aggregate materials up to a thickness of 6 inches.

Equipped with electric and manual thickness controls and a 8' to 12' or 9' to 12' wide screed, the paver can handle everything from driveways and small parking lots to large parking areas and secondary roads.

Before starting to pave, keep the following points in mind:

A. Plan the project so that the narrowest passes are first, (the basic width of the paver) leaving the widest pass until last.

B. Make sure to use a reference guideline. This can be a curb, gutter, adjacent mat or a string line. It is important that the first pass be straight as it will be the guideline for the following passes. Use the guidebar gauges as shown in figure 14.

C. Never run the paver through a pile of mix that has been dumped in front of the machine. Not only will this affect the level of the mat being laid but damage may result.

NOTE
If paving on cool windy days it may be necessary to maintain low heat on the screed. To accomplish this, reduce the pressure on the propane tank from 6 - 8 pounds to 2 pounds. This will provide a low even heat that will not harm the screed. Do not attempt to regulate the burner with the burner valve.

! WARNING !

NEVER SPRAY DOWN PAVER WITH FUEL OIL WHILE BURNERS ARE LIT. A FIRE COULD CAUSE SERIOUS BURNS OR DEATH!

NOTE:
When paving with tilt hopper paver gradually raise hopper as material is needed to screed. DO NOT dump hopper full and raise all the way up at one time. This will cause mat thickness to vary.

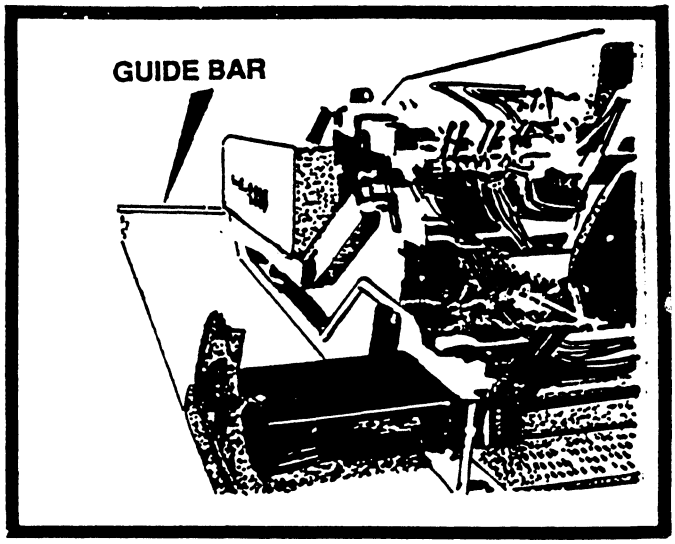


FIGURE 14

D. It is the operators job to guide the truck up to the paver and signal driver when and how much to dump into hopper. Truck driver must maintain a light pressure on his brakes to keep truck from dumping material on the roadway in front of paver. See figure 15.

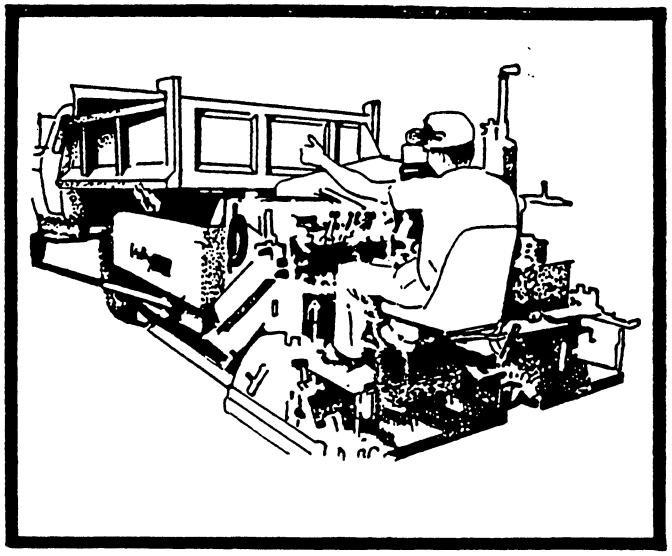


FIGURE 15

E. Always pave in Low range. See figure 18.

1. Raise screed and extend fully on both sides. Lubricate screed inserts with fuel oil and run the extendable screed in and out several times. Make sure end gate depth screw handles are locked after moving extensions to the desired depth. Spray the hopper and augers, with fuel oil as shown in Figure 16 and 17.

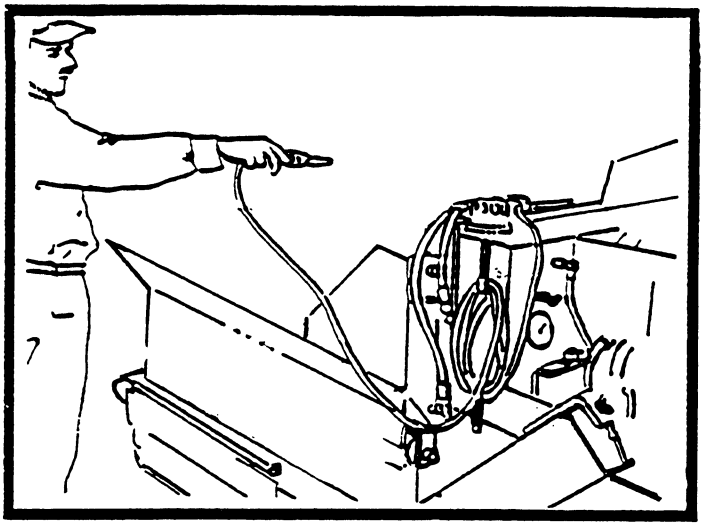


FIGURE 16

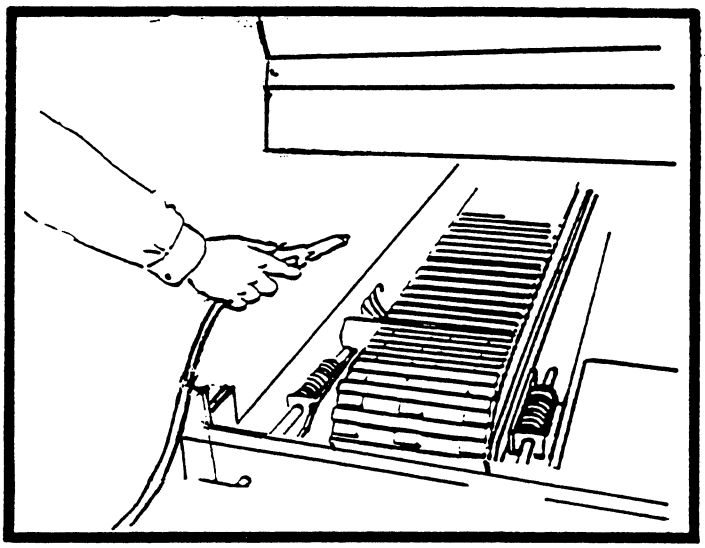


FIGURE 17

2. In figure 18,shows the method of shifting the paver from HI to LOW gear. High and Low gear, cable is used with the two speed transmission, push down to low gear, pull up to high gear.

NOTE:
Always stop two speed transmission paver before shifting gears.

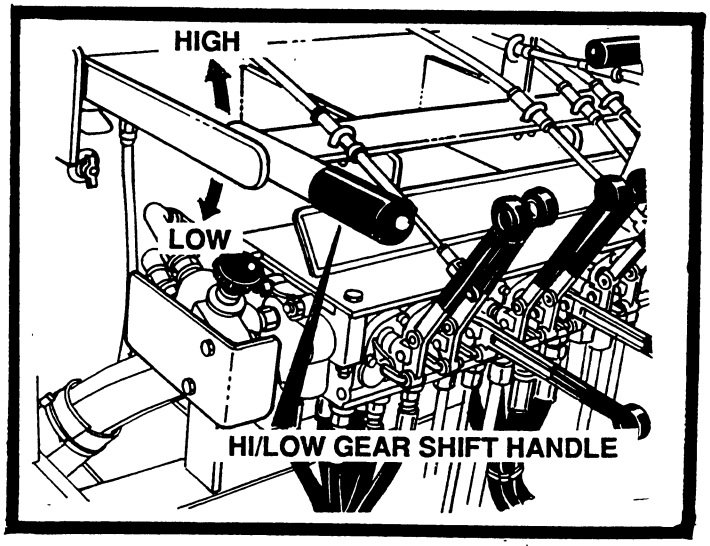


FIGURE 18

3. Light screed burners. Allow screed to heat for about 5 minutes. (After paving a short stretch, turn off screed heat; the mix will keep the screed hot.)

4. Move unit into paving position.

5. Place wood blocks under the screed as shown in figure 19. These blocks should be slightly thicker (1/4 inch) than the finished (compacted) mat, to allow for reduction in thickness after rolling.

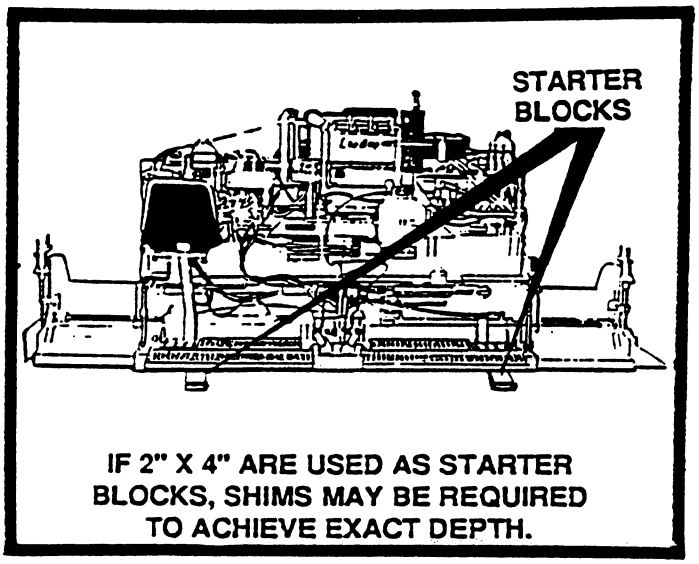


FIGURE 19

6. Adjust bottom of screed to lay flat on starting blocks. Turn flight screws one full turn toward thicker, this will lift the leading edge of the screed, preventing sag when leaving starting blocks. (Endgates can be used instead of starting blocks. Adjust end gates 1/8" to 1/4" shy of desired depth.) When paving at desired depth you should be able to feel free play in end gate. The free play indicates that the end gate is not carring the load and that you are getting full compaction from screed.

7. Move forward get ready to make fine adjustments with thickness control screws. (Clockwise thicker paving, counter clockwise thinner). See figure 20.

8. Once the machine is paving the right depth desired. The runners on each end should be about 1/4" off the base to eliminate wear on the runners.

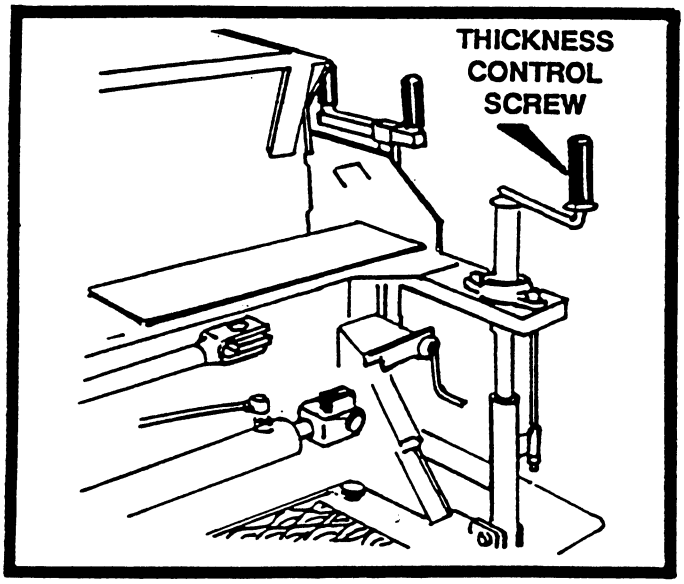


FIGURE 20

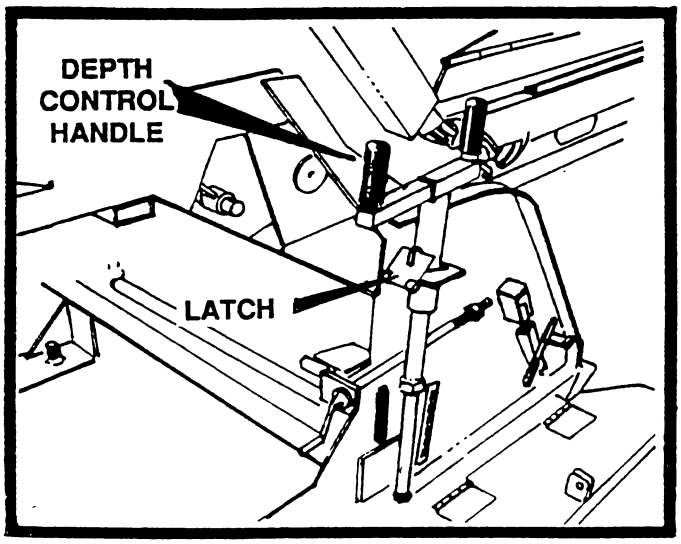


FIGURE 21

NOTE
Always make sure the depth control handles on the end gates are latched after each use to prevent damage when the extensions are retracted (See Figure 21).

ADJUSTING CROWN CONTROL

Set crown control. The screed plate is a one-piece unit which is actually bent to provide the required crown setting. See figure 22.

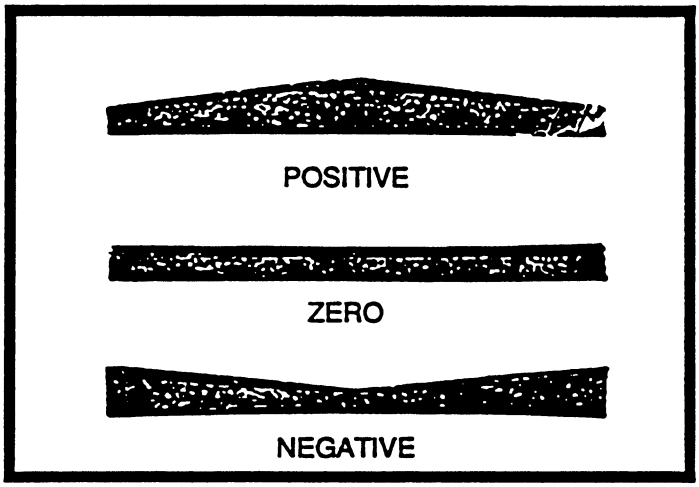


FIGURE 22

NOTE
Positive crown is when the middle of the mat is raised to permit water to drain to each side.

Negative crown is the lowering of the center of the screed plate. Negative crown might be used in an alley where drainage down the center of the alley is necessary.

Crown may be placed in the leading edge and/or the trailing edge of the screed plate. Crown in the leading edge aids material flow under the screed plate, only. Trailing edge crown puts a crown in the mat. As an example; trailing edge crown is O, leading edge crown is 1/8". With this set-up there will not be any crown placed in the mat laid by the paver, however, material flow under the screed plate will be improved. Trailing edge crown is set at O when shipped from the factory. The chain connecting the leading and trailing edge crown control assures that the relationship of the edges remains constant as the trailing edge is changed to meet job conditions.

NOTE:
There is not a lot of problems that can occur to a screed other than warping or twisting. Warping can be caused by too much heat from the burners. When making adjustments to the screed flight screws, try to stay within three to four turns of each other. Otherwise, the screed will be in a bind causing screed to twist. See page 21 under Screed Adjustment on how to level screed.

ADJUSTING CROWN CONTROL (Continued)

A. Loosen nut in slot under vibration motor as shown in figure 23.

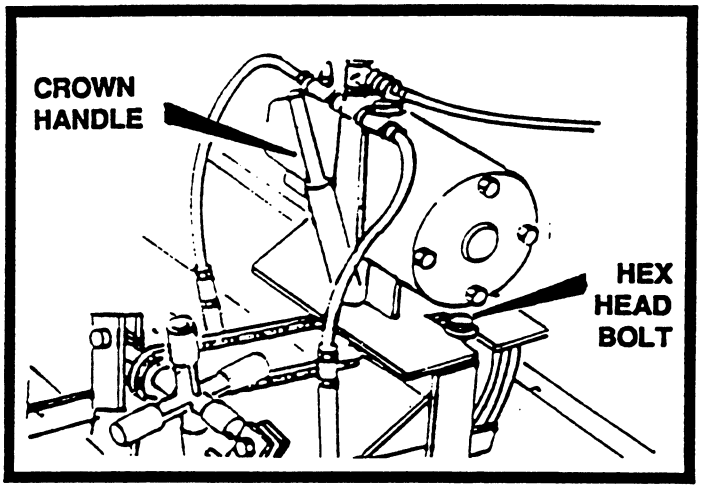


FIGURE 23

B. Remove crown handle from holder and insert it into opening on control as shown in figure 24.

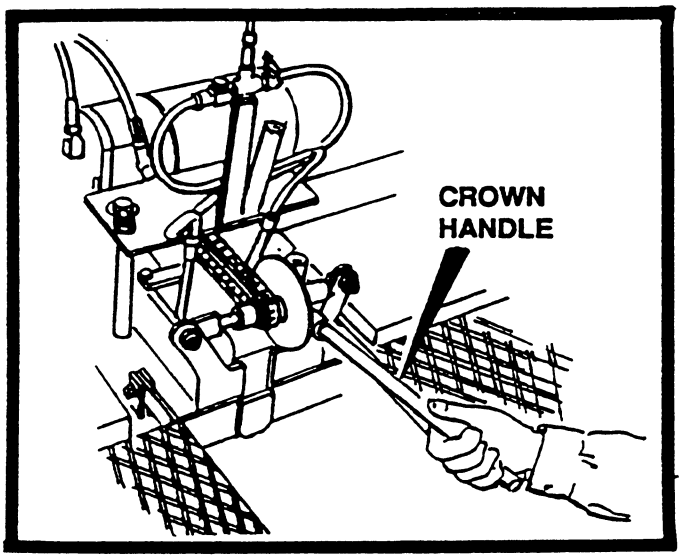


FIGURE 24

C. Turn crown control -
- down for positive crown
- up for negative crown

D. Re-tighten nut in slot under vibration motor.

NOTE

If the job demands a specific amount of crown, it can be set by stretching a string line from one side of the screed to the other (along trailing edge). Turn crown control and measure from the center of screed plate to taut string line.

NOTE

Regardless of the settings you have placed on the paver, the final judge of what you are doing is the mat itself. For instance, if you have set the crown on the screed, check the mat behind the paver to determine if you really are getting the crown you desire.

Begin paving the first pass following the guide line.

Reverse the paver and return to the starting point for the next pass. The depth control handle on the end gate (on the paved side) should be set so that the bottom of the end plate is about 1/4" below the screed plate if the adjacent mat has been rolled.

NOTE

If possible, about 6 inches of the edge of the first pass should be left unrolled to allow a good joint to be made after the next pass is complete.

The second pass can be made with the truck backed up to the front rollers of the paver as shown in figure 25. The paver will push the truck; the driver should hold the truck brakes "on" *lightly* to keep the truck from moving away from the paver.

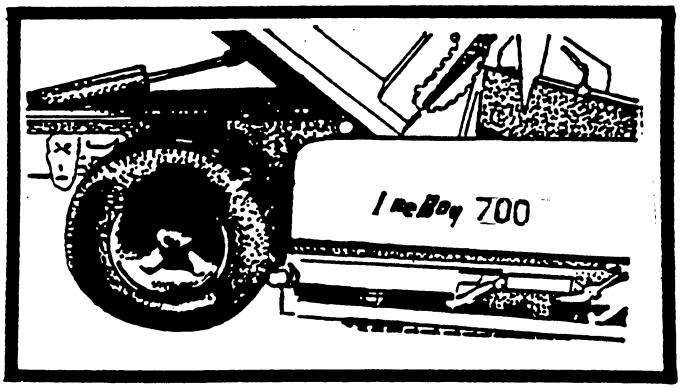


FIGURE 25

! CAUTION !

TRUCK DRIVER SHOULD NOT HOLD BRAKES TOO TIGHTLY OR PAVER STEERING AND THE MAT WILL BE ADVERSELY AFFECTED.

NOTE

These paving directions are general in nature and cannot take into account unusual characteristics you will find on each job. It is therefore, the responsibility of the supervisor in charge to determine the exact paving pattern.

ROUTINE MAINTENANCE

GENERAL

Preventive maintenance on the Lee-Boy paver is a simple job that will provide years of trouble-free operation. Adjustments, also, are simple; they can be performed, in the field, with ordinary hand tools. Engine preventative maintenance, other than oil, air and fuel filter changes, is not covered in this section. Refer to engine operators manual for engine service information.

10 - HOUR OR DAILY ROUTINE MAINTENANCE

1. Cleaning the paver at the end of the working day while the machine is still hot is like putting money in the bank. A paver that is continuously left with mix stuffed in every corner is going to increase maintenance costs. Scrape off mix and spray fuel oil on the screed plate, hopper, etc., any place that has come in contact with the mix. All cleaning should be performed while the machine is hot.

! 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.

2. Raise hopper (See Adjustments) and clean mix off all flat surfaces. This operation is quick and simple when the paver is still hot. **Immediately after raising hopper place the safety prop in position.**

3. Fill fuel tank for engine and spray down system to keep condensation from forming.

4. Perform engine preventative maintenance as described in your engine operators manual. Any engine preventative maintenance should always begin with an oil check. Also, check oil level in oil bath air cleaner. (If Equipped.)

5. There are three grease fittings that should be greased daily with a good grade of multipurpose grease. Two fittings are on the outside end of each auger. See figure 29.

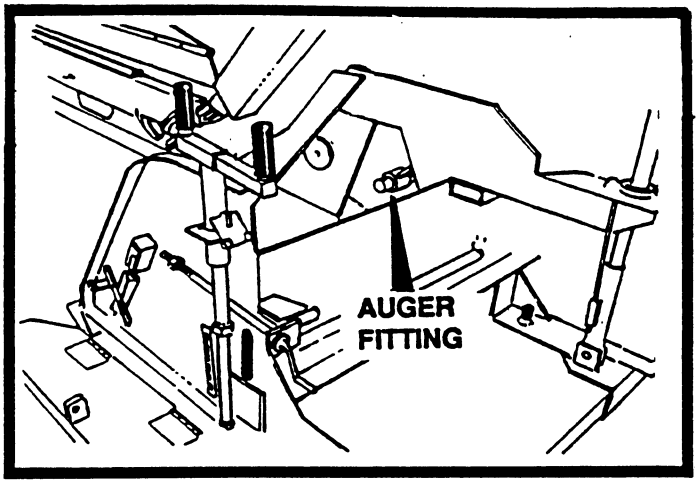


FIGURE 26

The center auger bearings are sealed for life.

The third grease fitting is on right, screed lift slide, behind the screed hoist cyiinder. See figure 27.

Grease these fittings at the end of the day while the machine is still hot. This permits the bearings to be flushed of any asphalt or fines that may have worked into them.

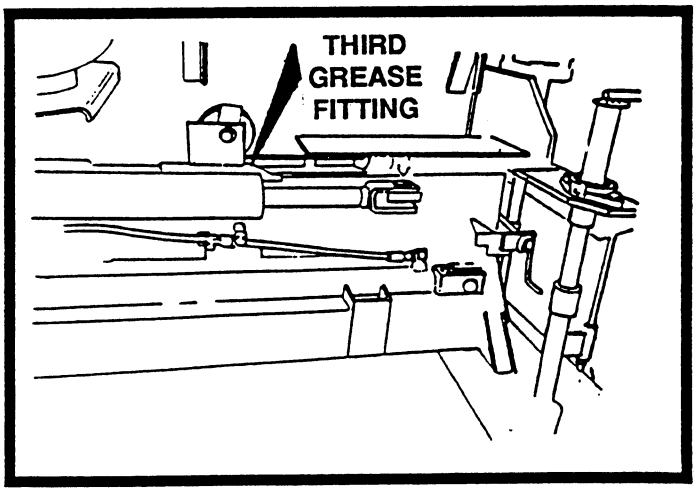


FIGURE 27

NOTE: At the end of the day extend screed extension all the way out and spray fuel oil on top and bottom. Work in and out a couple of times to work fuel oil to inside preventing hang up of extension the next morning.

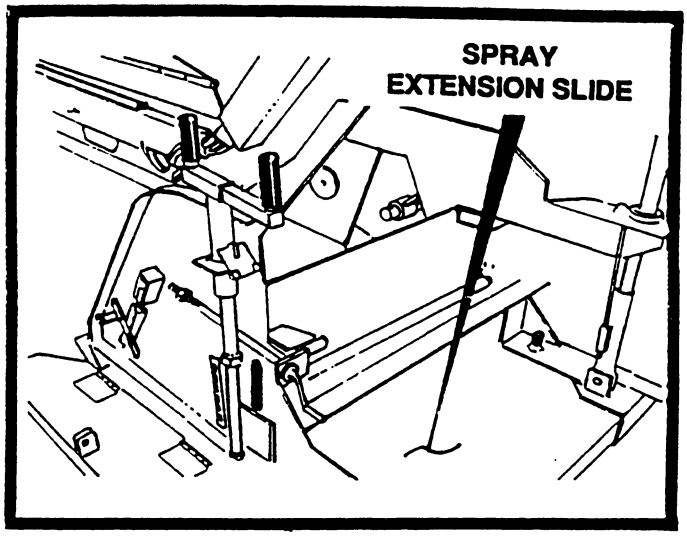


FIGURE 28

6. Spray thickness control screws with fuel oil to keep them working smoothly.

7. Grease extension slide with multi-purpose grease or spray with fuel oil at points shown in figure 28.

50 HOUR OR WEEKLY ROUTINE MAINTENANCE

1. Check hydraulic oil and add if necessary.

! CAUTION !

YOUR PAVER'S HYDRAULIC SYSTEM REQUIRES CLEAN, CONTAMINANT-FREE OIL. TAKE CARE WHEN WORKING WITH THE HYDRAULIC SYSTEM TO INSURE ITS COMPLETE CLEANLINESS. (15W 40 MOTOR OIL)

2. Check that battery electrolyte level is to the full indicator and add clean distilled water, if required. Use a battery hydrometer to measure specific gravity in each cell. A fully charged battery will read 1.265 specific gravity at 80 F. (27C.). At the same time check all battery connections and remove any corrosion that is present.

! DANGER !

DO NOT SMOKE WHEN OBSERVING BATTERY ELECTROLYTE LEVEL. THE FUMES CAN EXPLODE. ELECTROLYTE IS AN ACID WHICH CAN BURN IF IT CONTACTS SKIN OR EYES. IF CONTACT IS MADE, FLUSH AREA IMMEDIATELY WITH WATER.

3. Check air cleaner, if the engine is equipped with a dry type element. Improperly serviced air cleaners wear out engines—FAST! In just a few hours a small amount of dirt will wear out a set of piston rings! Refer to your engine's operators manual for service information. Also perform any other engine preventative maintenance as described in the engine operators manual.

4. Clean screed insert. Remove screed insert by disconnecting extension cylinder and then pulling the screed straight out. See figure 29. **(When needed)**

Remove asphalt that has accumulated inside screed.

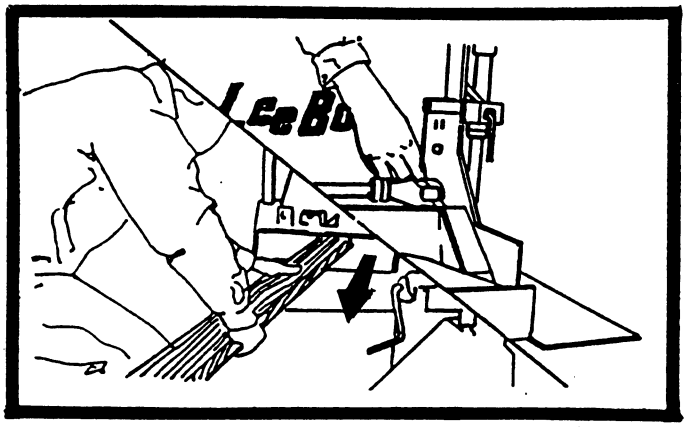


FIGURE 29

100 HOUR OR MONTHLY ROUTINE MAINTENANCE

1. Check oil level in the two transmission gear boxes as shown in figure 30. If oil is required use 90 wt. gear oil. There is a dipstick provided to check oil level.

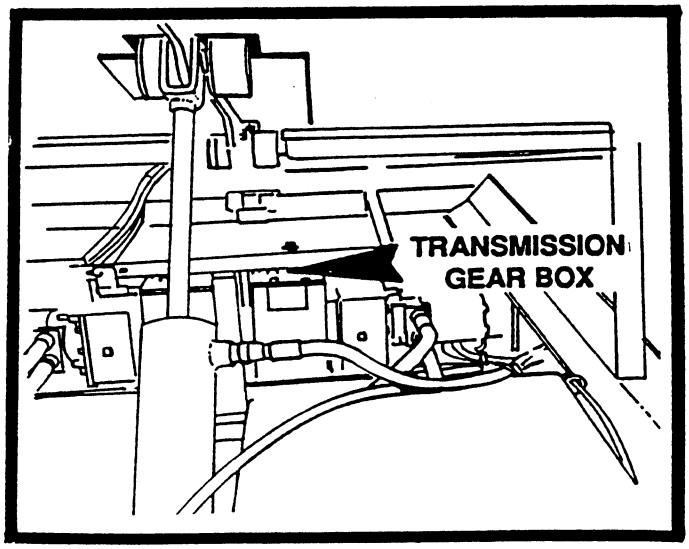


FIGURE 30

2. Check oil level in the torque hub by removing the plug at the 3 o'clock position. If oil comes out no oil is needed, insert plug and tighten. If oil does not come out, remove the plug at the 12 o'clock position and fill torque hub with 90 wt. gear oil until oil starts to appear at the other hole. Replace both plugs and repeat process to other torque hub. See figure 31.

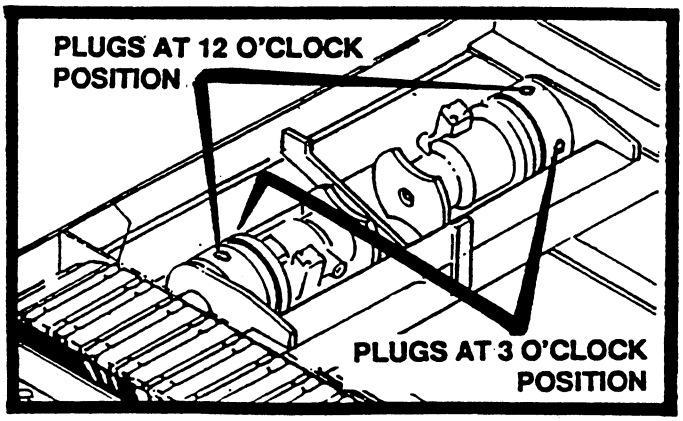


FIGURE 31

DOES NOT APPLY TO 700 PAVERS

3. Replace dry type air filter, if equipped. Refer to your engine operators manual for service information.

4. 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. (15 W 40 Motor Oil)

5. Change oil in oil bath air 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.

6. 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 0 - 210° F SAE 10 W - 40 grade 46 oil.

2. Perform the 1,000 hour preventative maintenance as described in the engine operators manual.

3. Anytime the paver 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.

SCREED ADJUSTMENT

If the screed should ever twist, set the screed down on 1-2x4 on each side. Level the screed (front and back) on 2 x 4's until the screws are free. Check the screed while it is on the 2 x 4's, if one side of the screed is up off of the 2 x 4's then lift the screed up and take the flight screw on that side and push down on that side until it is brought back level again. The twist should come out easy (you may need to repeat this process more than once), also make sure the vibrator is loose. You can leave the vibrator loose (when paving) until you need it again.

TRACK ADJUSTMENTS (SPRING LOADED)

1. If tracks have more than 1/2" of sag, adjustments may need to be made to keep tracks running smooth.
   A. Adjust; Adjustment Bolts on front of machine like shown in figure 32 to where the springs are compressed to about 6$^{3}/_{8}$ to 7 inches.
   B. Measure threaded rod coming thru rear of spring take up nuts and make sure both are the same.
   C. Do not spray tires in tracks with fuel oil, this will cause tires to slip or damage rubber on tires after a period of time.
   D. When tracks have been adjusted to where there is no adjustment left, you may take one track link out.

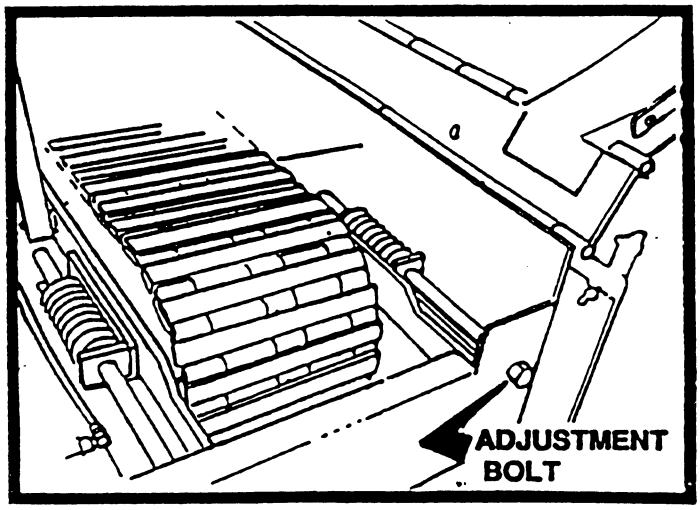


FIGURE 32

RUBBER TIRE ADJUSTMENTS (Spring Loaded)

1. Follow same steps as shown in track adjustments.

2. Lubricate two drive chains daily when cleaning machine with spraydown. (Do not spray fuel oil on tires).

Trouble Shooting Guide

Problem	Probable Cause	Solution
Auger hanging up or will not turn	• Chain too loose • Chain broke • Bad motor • Asphalt set up around auger	• Adjust • Replace • Replace • Keep clean and fuel oiled
Screed extensions hanging	• Asphalt set up around extension	• Keep cleaned and fuel oiled
Screed extensions loose (work up and down)	• Out of adjustment	• Adjust hold downs on extensions
Screed leaving streak down center of pavement	• Screed too flat (on leading edge) • Screed worn out	• Crown leading edge of screed • Replace
Flight Screw Locking up	• Twisting screed too far	• Give screed time to react
Breaking of flight screw bearings	• Loading and unloading	• Check ramps for easy access
Flame coming out end of screed	• Raw gas from burners	• Adjust burners in or out of hole. • Turn cutoff valve slowly to off, when flame goes out turn valve back on fully.
Hydraulic oil running out of breather cap	• Too full hydraulic oil • Air in bottom of tank • Oil over heated	• Drain 5" to 6" from top of tank • Bleed if you don't have vent hose • Slow machine down about 10% to 15%
Auger handles will not Stay locked in	• Detent worn out	• Replace detent
Hydraulic pump cavitating or lost power	• Low hydraulic oil • Clogged filters • Suction hose loose • Charge pump worn	• Fill • Replace • Retighten • Rebuild
Engine will not start (Diesel)	• Check Safety Switches Bad • Wires not making good connection on solenoid • Plug in switch box unplugged • Solenoid plunger sticking • Fuel solenoid coil burnt up • Blower belt broke	• Replace • Make sure wires are tight • Plug back • Clean plunger • Replace coil • Replace Belt

NOTE:

Hatz diesels are set up with a safety on starter, normally if the engine will not crank over it is the result of the starter relay. By pass this relay by finding terminal 50 on back of switch. Crimp new wire into this wire and run over to junction block, labeled No. 3. (Remove by pass relay.)

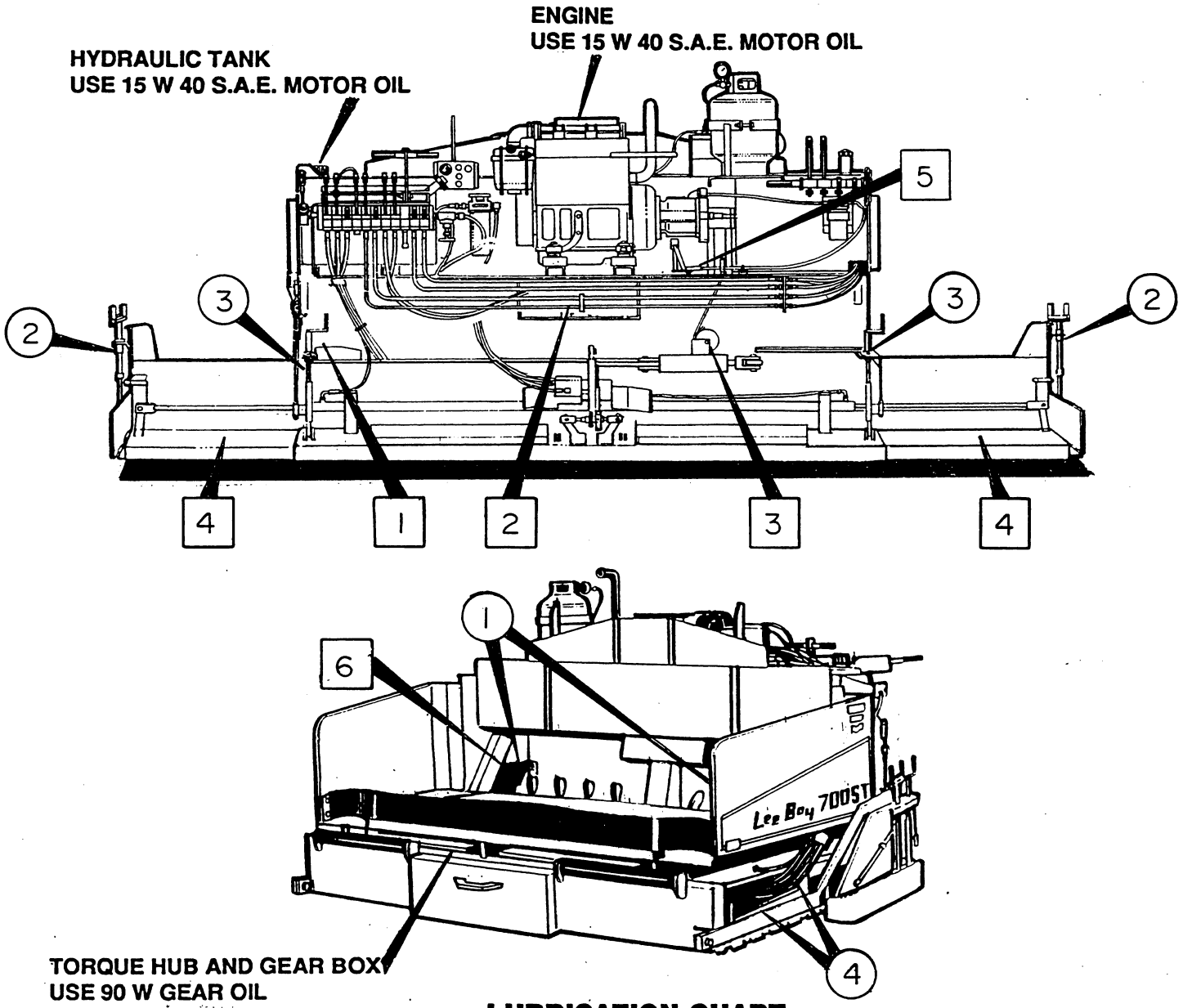
Trouble Shooting Guide (Continued)

Problem	Probable Cause	Solution
Machine will not run straight	• Torque Limitor out of adjustment	• Adjust - Read note at bottom of page.
Machine will not pull on one or both sides	• Shifter out of adjustment • Keys sheared in bull gear (Transmission) • Transmission Gear stripped • Bad Drive motor	• Readjust • Replace keys • Replace Gear • Replace
Tracks not running smooth	• Tracks too loose • Front idler out of line	• Tighten tracks • Readjust track
Electric Screed don't work	• Check Fuse • Check wiring • Bad activator	• Replace • Make sure wires in tack • Replace

Hydraulic Pressures

Drive	• 2000 PSI
Augers & Cyl.	• 1800 PSI

NOTE:
Torque Limitor; to adjust place 2" x 4" in front of machine so one half (1/2) of the machine can roll upon it. If machine veers (goes toward the right or left) when running over the 2" x 4" adjust large nut on torque limitor. Turn the nut in about one quarter (1/4) of a turn at a time, continue this adjustment until machine tracks straight when going over the 2" x 4" as described. Tighten set screw after correction is made. (Make sure torque limitor is not full of grease or oil when adjusting.



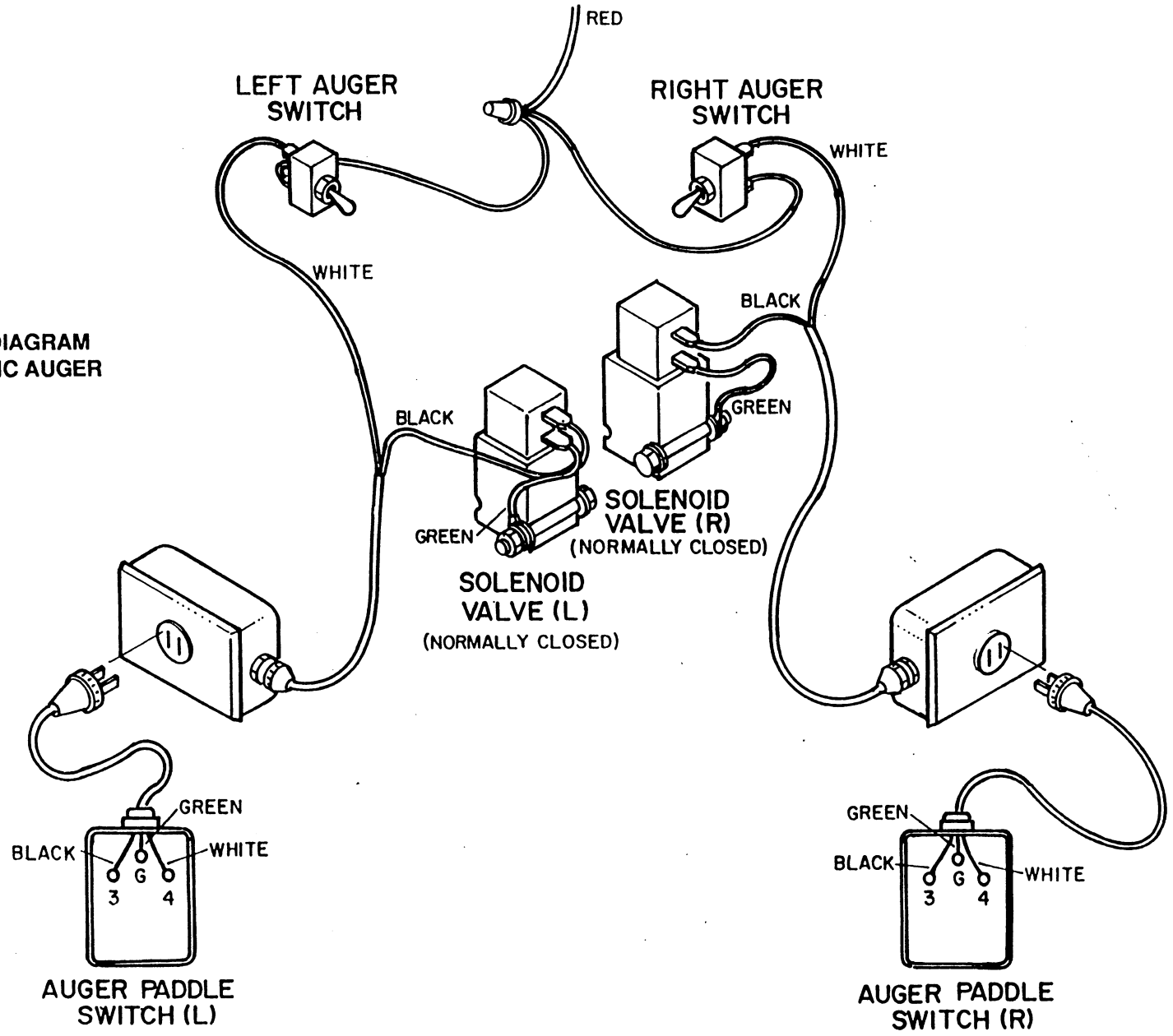
LUBRICATION CHART

Item No.	Description and Location	Interval
①	AUGER, each end of auger, (Best time at end of day)	Daily
②	DEPTH SCREW, grease first in lock position, unlock turn 180° and grease	Weekly
③	BEARING, on flight screw, both ends	Weekly
④	PILLAR BEARINGS, axle	3 Months
[1]	PULLEY, screed lift, left side	Daily
[2]	AUGER CHAIN, middle of paver	Daily
[3]	PULLEY, screed lift, right side	Daily
[4]	SCREED EXTENSIONS, left and right (clean surface)	Daily
[5]	CABLE END, through out paver	Weekly
[6]	AUGER, as shown	Daily

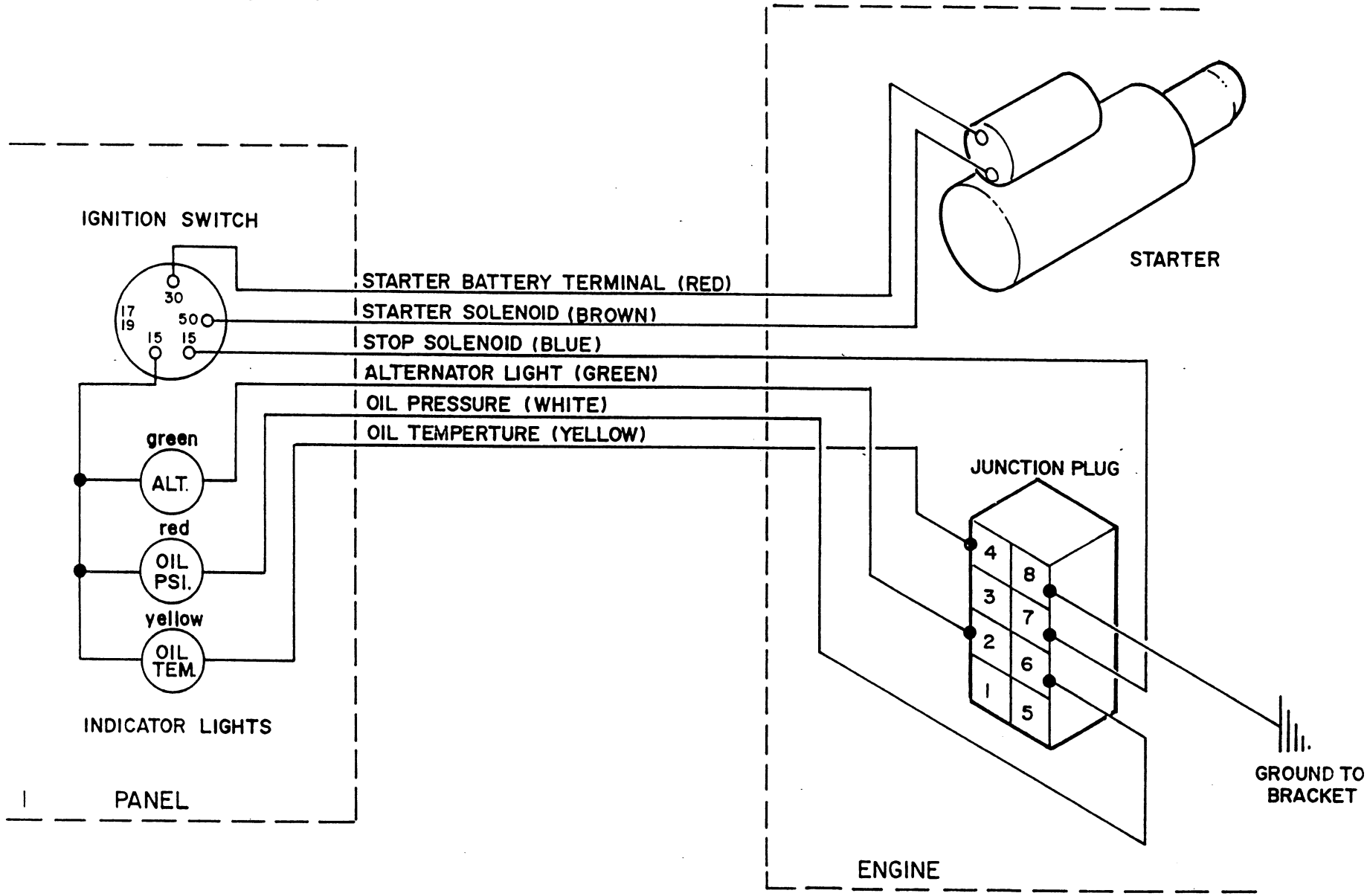
LEGEND ◯ GREASE WITH SHELL AVANIA EP GREASE 2 OR EQUIVALENT.

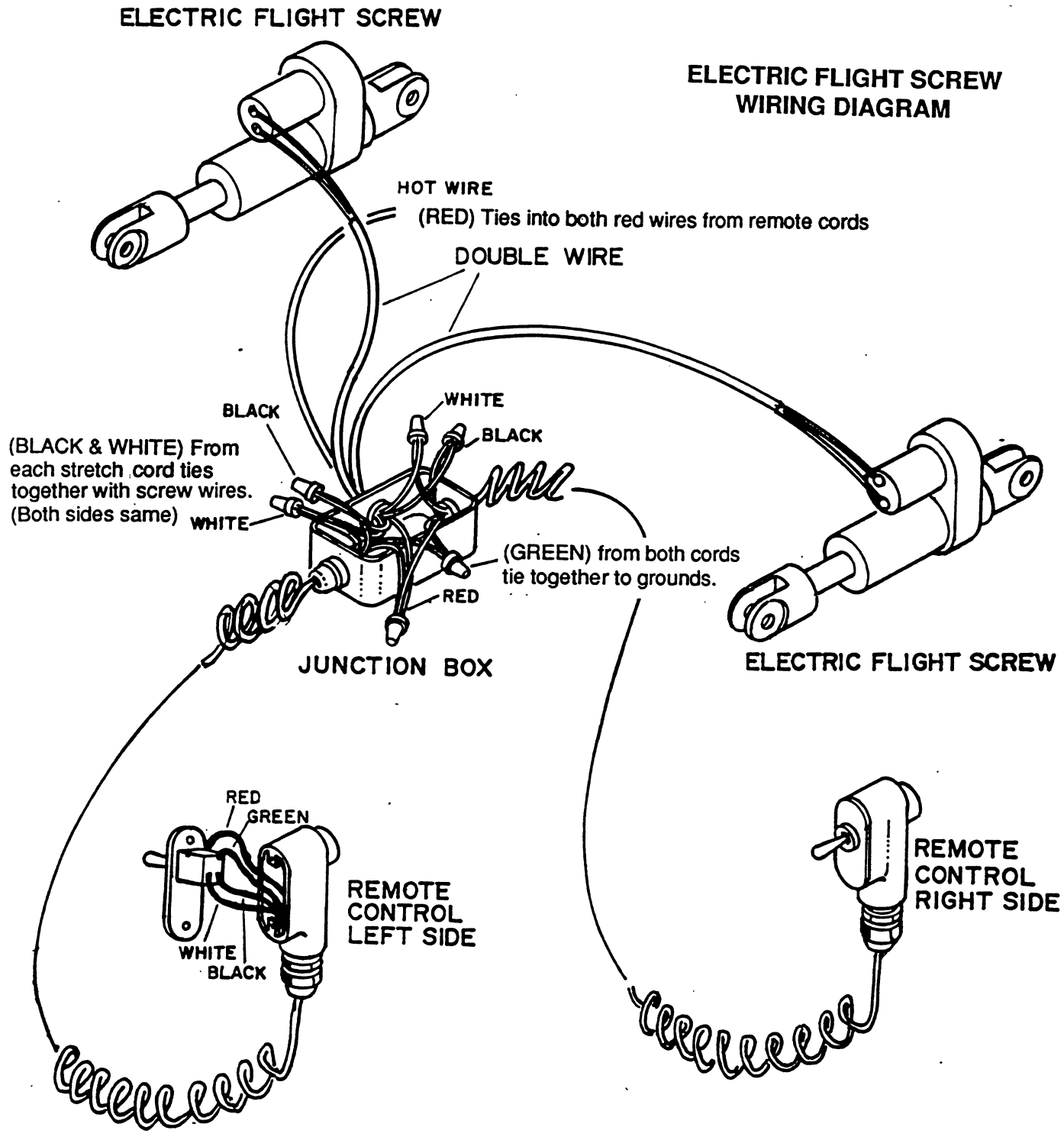
☐ SPRAY WITH FUEL OIL OR CHAIN LUBE

WIRING DIAGRAM AUTOMATIC AUGER

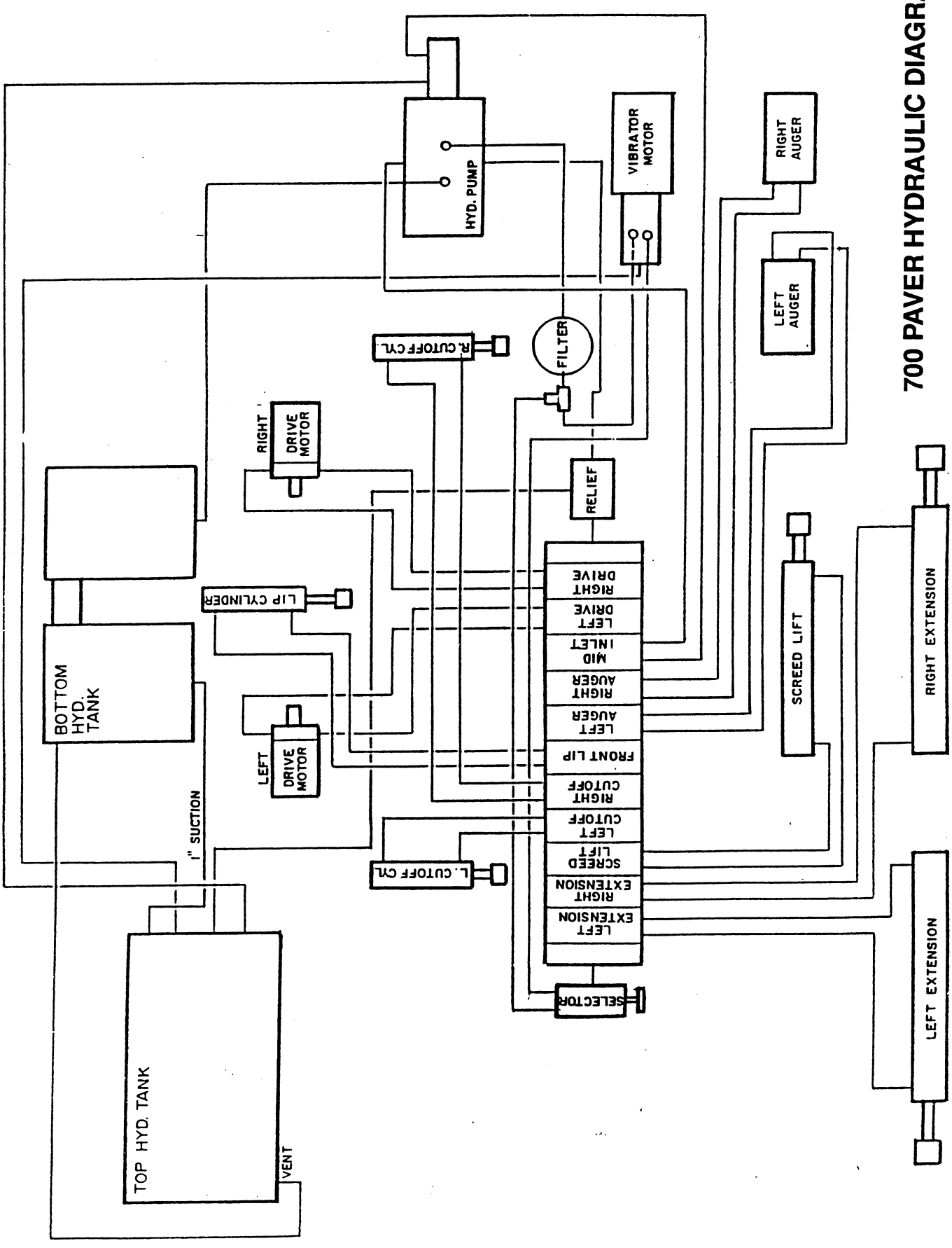


DEUTZ 1011 ENGINE
WIRING DIAGRAM

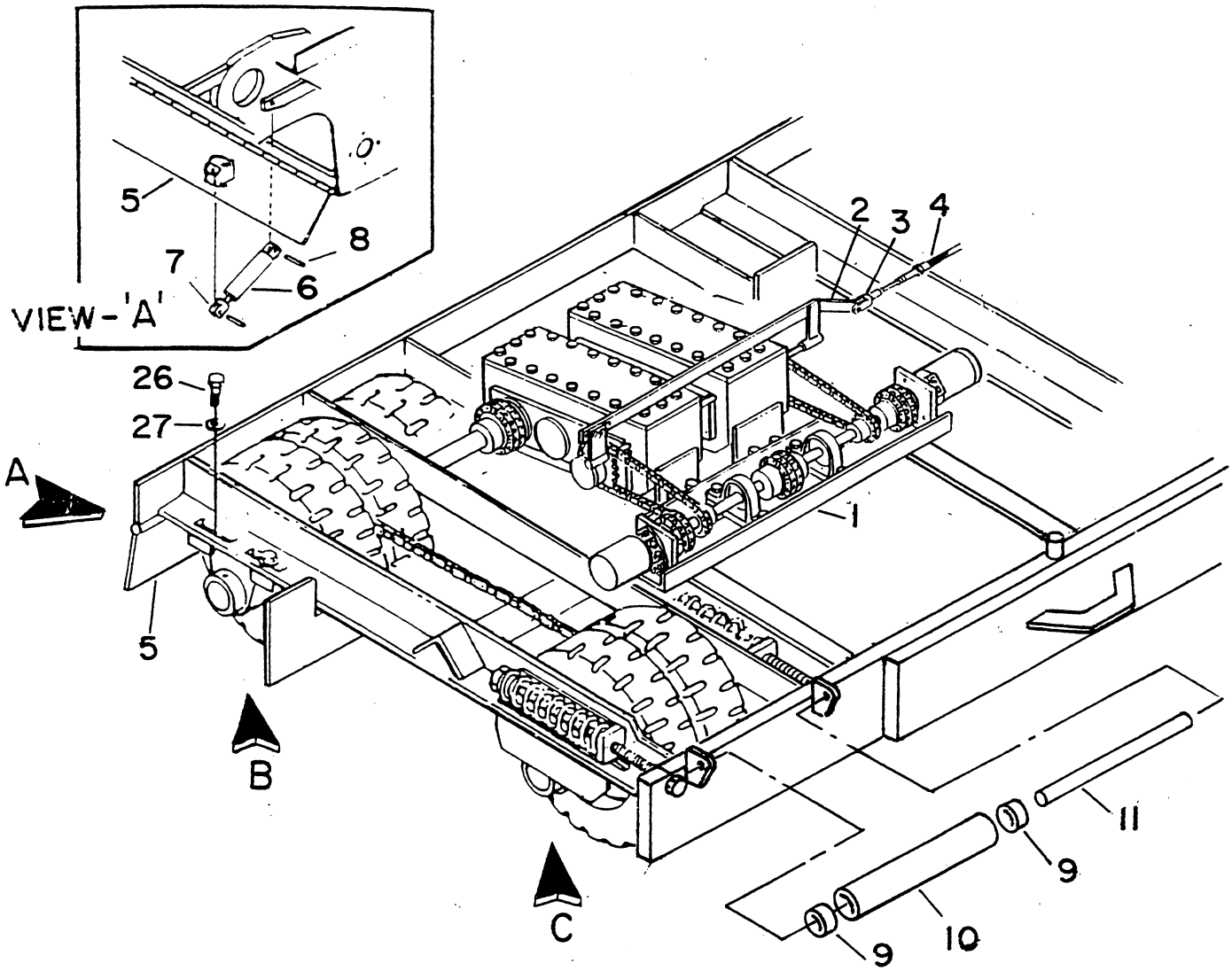



ELECTRIC FLIGHT SCREW
ELECTRIC FLIGHT SCREW
WIRING DIAGRAM
HOT WIRE
(RED) Ties into both red wires from remote cords
DOUBLE WIRE
BLACK
WHITE
BLACK
(BLACK & WHITE) From each stretch cord ties together with screw wires. (Both sides same)
WHITE
(GREEN) from both cords tie together to grounds.
RED
JUNCTION BOX
ELECTRIC FLIGHT SCREW
RED
GREEN
WHITE
BLACK
REMOTE CONTROL LEFT SIDE
REMOTE CONTROL RIGHT SIDE

700 PAVER HYDRAULIC DIAGRAM



LIST OF ILLUSTRATIONS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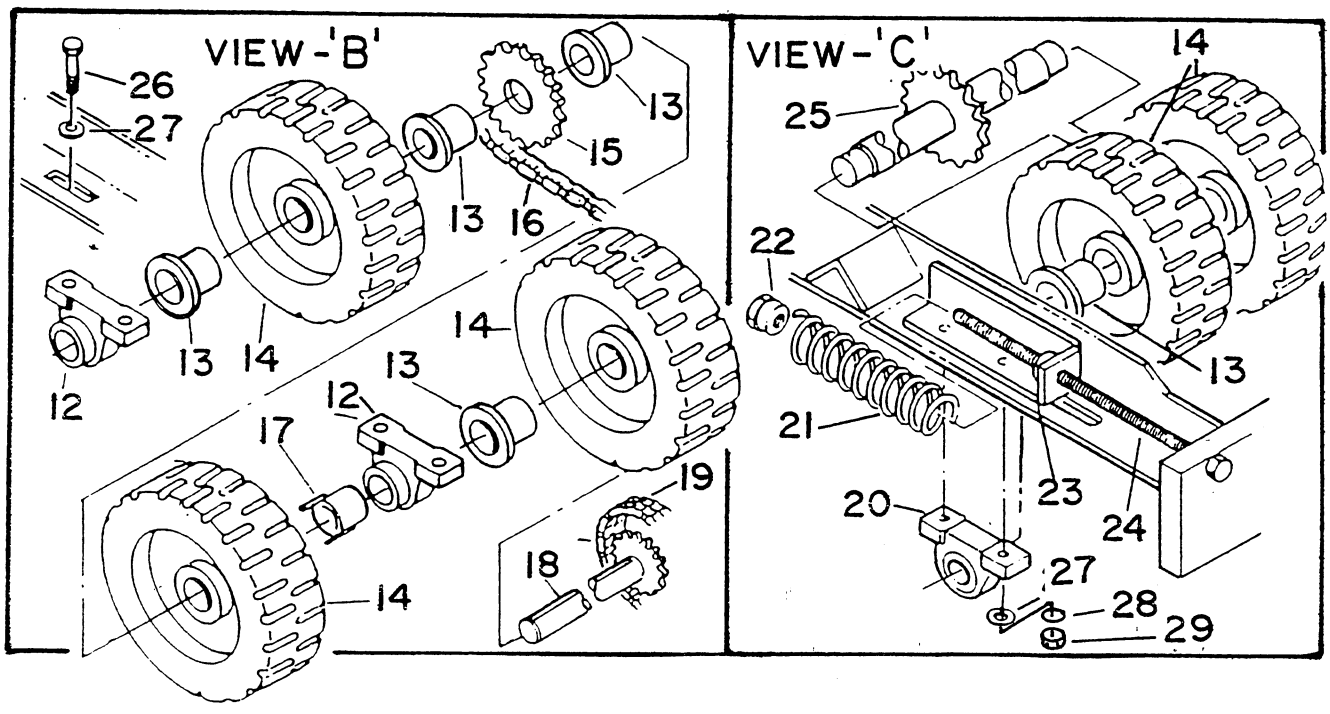
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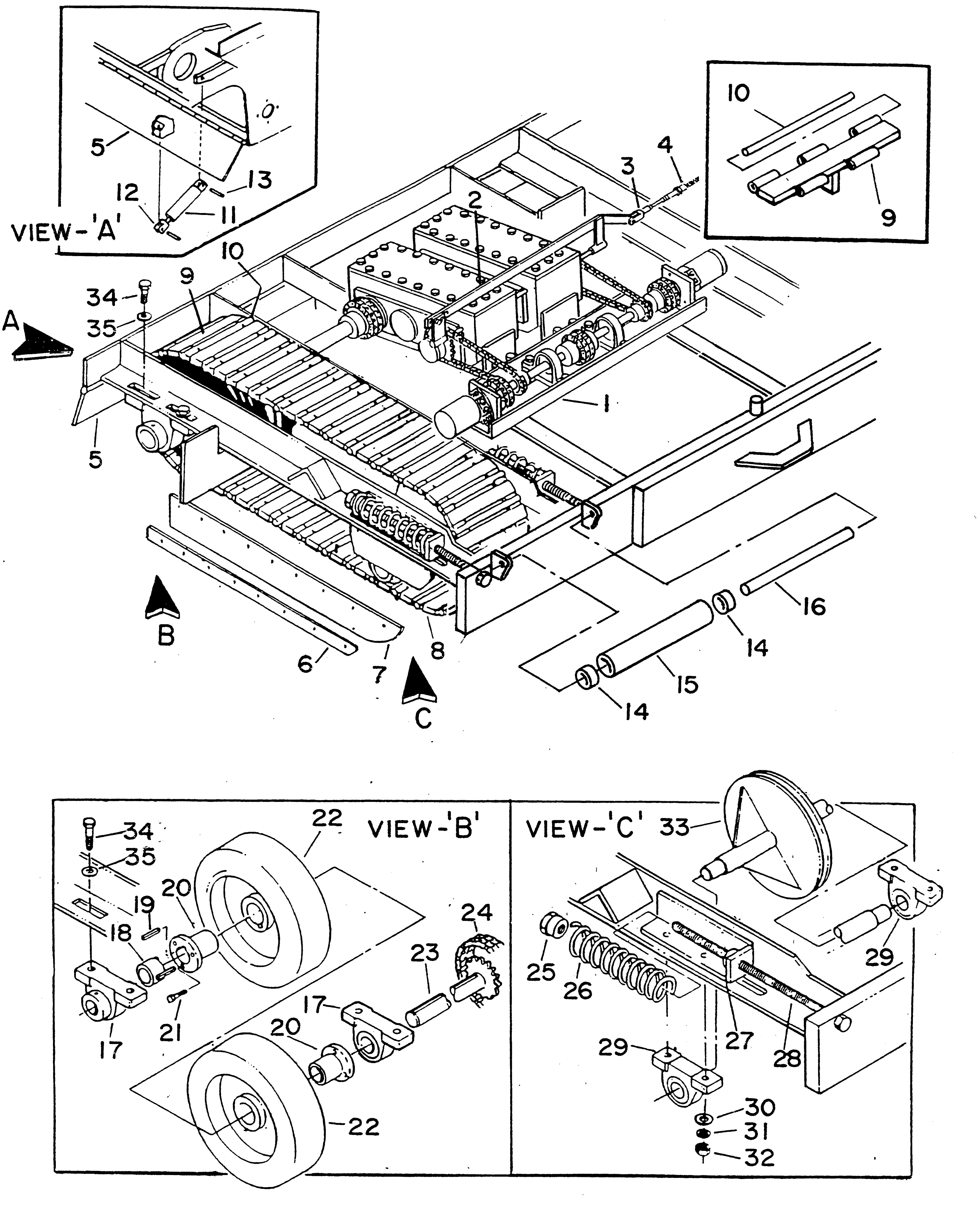
RUBBER TIRE DRIVE ASSEMBLY - 700

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1		Drive Mount Assembly (See Page 10 - Drive Motor Assembly)	
2	810042	Harness, Shift	1
3	810050	Clevis, Shift 3/8"	2
4	810060	Cable, Shift (3" x 86")	1
5	810304	Cutoff, complete 8'	1
6	811374	Cylinder, Cutoff (2 1/2" x 4")	2
7	811373	Yoke, Cylinder	1
8	811376	Pins	2
9	810110	Bearing, Roller (1 1/4")	4
10	810102	Roller, Bumper	2
11	810122	Shaft, Bumper	2
12	810140	Bearing, Pillowblock (2 1/4")	4
13	810160	Bushing, (2 1/4")	6
14	900115	Tire, Lug (Molded) (5" x 18")	10
15	820150	Sprocket, 80Q22	2
16	900116	Chain, Transfer (80)	2
17	820170	Spacer	2
18	810172	Axle, Rear 36" x 2 1/4" (8')	2
18	900114	Axle, Rear (42" x 2 1/4") (9')	2
19	810180	Chain Coupling (Double 80)	2
20	810190	Bearing, Pillowblock 2"	4
21	820182	Spring, Adjustment	4
22	810210	Nut, Backup	4
23	810222	Support, Adjustment (L or R Specify)	4
24	810233	Bolt, Adjustment (18")	4
25	900207	Axle, Front (2" x 21 1/2")	2
26	820255	Bolt, hex (5/8" x 3")	8
27	860040	Washer, flat (5/8)	8
28	811356	Washer, lock (5/8)	8
29	920147	Nut, hex (5/8)	8
30	811172	Prop, N/S	1
31	810183	Link, Double Master (Double 80) (N/S)	2
32	900109	Key, For Bushing (Front Assembly) (1/2") (N/S)	4
33	900149	Key For Rear Bushing (1/2" x 3/4") (N/S)	6
34	900427	Cover, Drive Tray (N/S)	1
35	900110	Casted Rim (N/S)	8
36	900111	5" x 8" x 18" Monarch Lug (N/S)	8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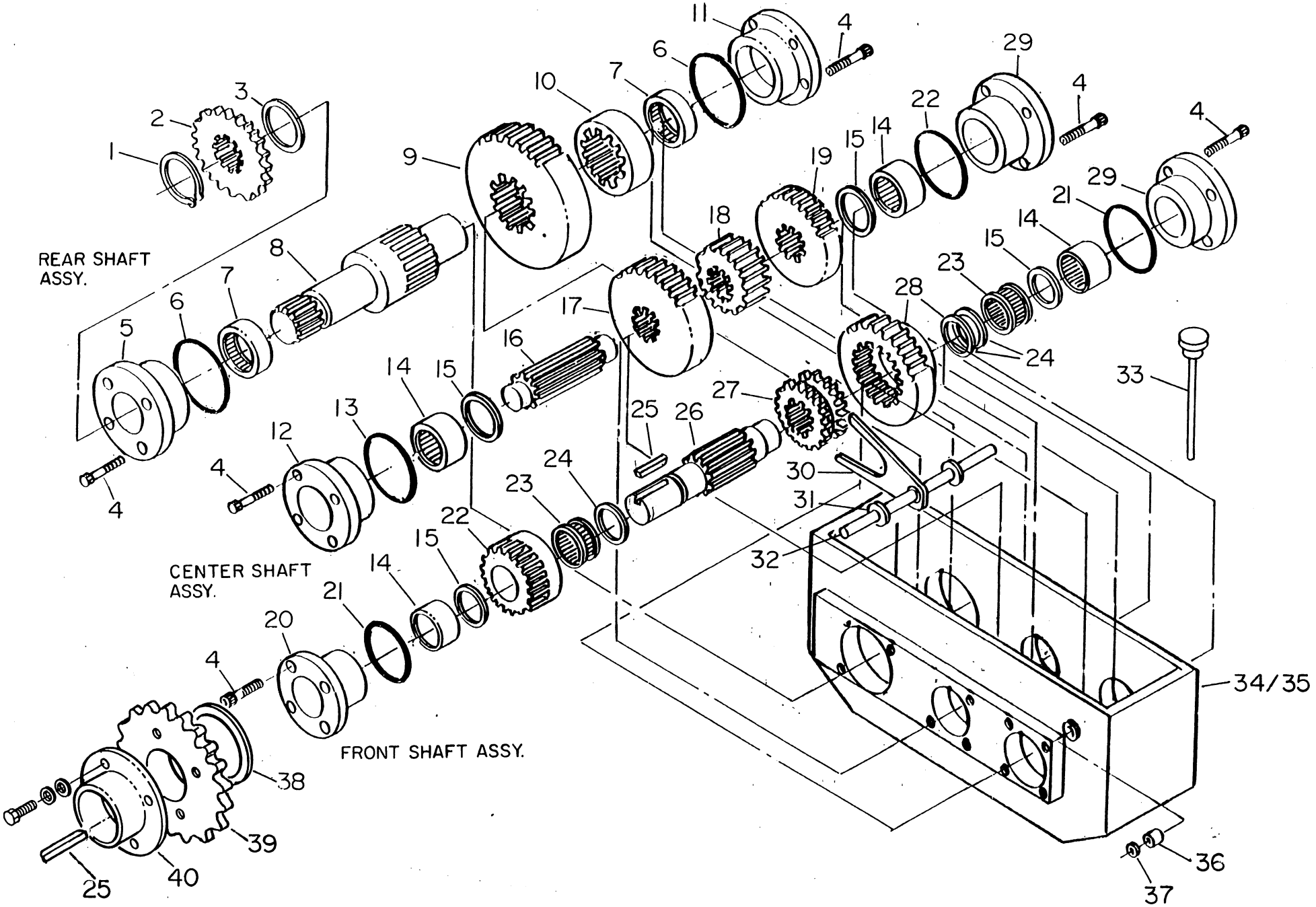
TRACK DRIVE ASSEMBLY - 700
(With Box Transmission)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1		Drive Mount Assembly (See Page 10 - Drive Motor Assembly)	
2	810042	Harness, Shift	1
3	810050	Clevis, Shift - 3/8"	2
4	810060	Cable, Shift (3" x 86")	1
5	810304	Cutoff, complete 8'	1
6	810031	Mount, shield	4
7	810020	Shield	4
8	810015	Track Assembly	2
9	810281	Section, track	48
10	810291	Pin, master-track	48
11	811374	Cylinder, cut-off (2 1/2" x 4") (NOTE: Need to know if ports on top or side)	2
12	811373	Yoke, cylinder	1
13	811376	Pin	2
14	810110	Bearing, roller	4
15	810102	Roller, bumper	2
16	810122	Shaft, bumper	2
17	810140	Bearing, pillowblock 2 1/4"	4
18	810151	Spacer	2
19	900149	Key (1/2 x 3/4 Key comes with bushing)	4
20	810160	Bushing, 2 1/4"	4
21	930018	Bolt, hex (3/8" x 1 1/2")	12
22	810129	Tire, 5" x 16" (Molded)	4
23	810172	Axle, rear 36" x 2 1/4"	2
24	810180	Chain, coupling (80)	2
25	810210	Nut, back-up	4
26	810200	Spring, adjustment	4
27	810222	Support, adjustment (L or R, specify)	4
28	810233	Bolt, adjustment	4
29	810190	Bearing, pillowblock 2"	4
30	860040	Washer, flat 5/8"	16
31	811356	Washer, lock 5/8"	8
32	920147	Nut, hex 5/8"	2
33	810261	Idler, front 16"	2
34	820255	Bolt, hex 5/8" x 3	8
35	860040	Washer, flat 5/8"	16
36	900427	Cover, Drive Tray (N/S)	1
37	900110	Casted Rim (N/S)	4
38	900304	Tire (4" x 8" x 16") (N/S)	4

A/R – As Required
N/S – Not Shown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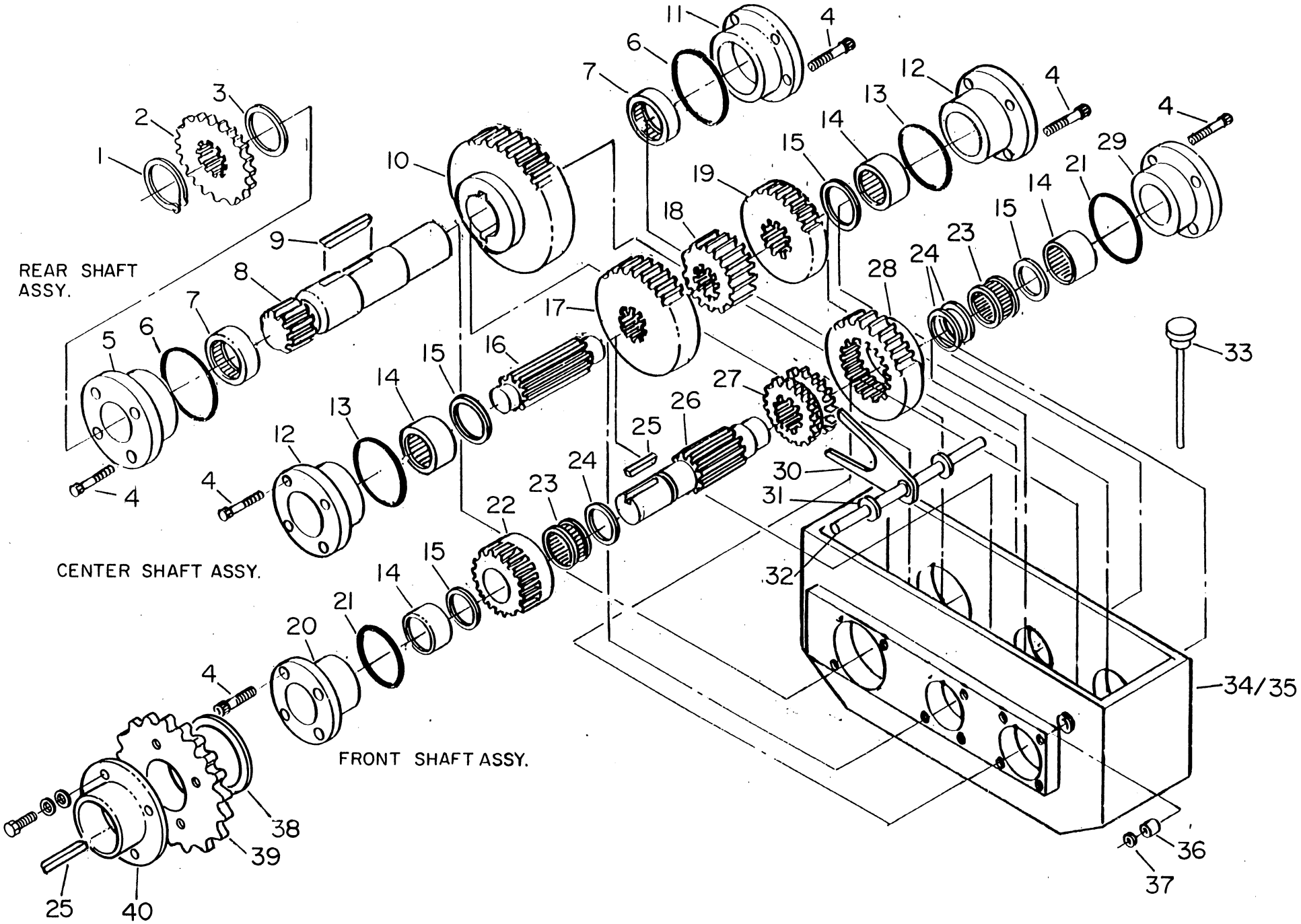
TRANSMISSION ASSEMBLY
(Heavy Duty)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	900500	Transmission Assembly (R/H)	1
	900501	Transmission Assembly (L/H)	1
1	830010	Snap, ring	1
2	830020	Sprocket, output (80S22)	1
3	830030	Seal, rear	1
4	831421	Bolt, Allen	24
5	830041	Cap, rear seal	1
6	830060	'O' ring	2
7	830050	Bearing, rear	2
8	831082	Shaft, rear	1
9	831092	Gear, bull (Sold in match sets only - use part # 831455)	2
10	831424	Spacer, bull gear	1
11	830101	Cap, plain rear	2
12	830111	Cap, plain center	2
13	830130	'O' ring, center cap	2
14	830120	Bearing, front and center	4
15	830140	Spacer, center	4
16	830171	Shaft, center	2
17	831151	Gear, low (center shaft)(Sold in match sets - use part #831450)	1
18	831161	Gear, intermediate (Sold in match sets - use part #831455)	1
19	831181	Gear, high (center shaft)(Sold in match sets - use part #831460)	1
20	830321	Cap, front (bore)	1
21	830060	'O' ring	1
22	831201	Gear, low (front shaft)(Sold in match sets - use part #831450)	1
23	830270	Bearing, inner gear	2
24	830260	Spacer, inner gear	3
25	900537	Key Input Sprocket	2
26	830211	Shaft, front	1
27	830221	Gear, clutch	1
28	831231	Gear, high (front shaft)(Sold in match sets - use part # 831460)	1
29	830251	Cap, plain	1
30	830291	Fork, shifter	1
31	830300	Collar, shifter fork	2
32	830311	Shaft, shifter	1
33	830191	Stick, dip	1
34	830393	Housing, main gear box	1
35	830402	Plate, top cover (N/S)	1
36	830240	Bushing, bronze	1
37	830280	Seal, shifter	1
38	900535	Seal, Front	1
39	900538	Sprocket, Input (60P26)	1
40	900530	Bushing, Input Sprocket (Shown in reverse position)	1

		*** GROUPS SOLD IN MATCH SETS ONLY**	
	*831450	Low Gear, (For Centershaft) & Low Gear, (For Frontshaft) Set	
	*831455	Bull & Intermediate Gear (Set)	
	*831460	High Gear, (For Centershaft) & High Gear, (For Frontshaft) Set	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TRANSMISSION ASSEMBLY
(Regular - Up To 1994)

LeeBoy

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	900500	Transmission Assembly (R/H)	1
	900501	Transmission Assembly (L/H)	1
1	830010	Snap, ring	1
2	830020	Sprocket, output (80S22)	1
3	830030	Seal, rear	1
4	831421	Bolt, Allen	24
5	830041	Cap, rear seal	1
6	830060	'O' ring - Front & Rear	2
7	830050	Bearing, rear	2
8	830082	Shaft, rear	1
9	830071	Key, hardened	2
10	900506	Gear, bull (Sold in match sets only - use part #831470)	1
11	830101	Cap, plain rear	1
12	830111	Cap, plain center	2
13	830130	'O' ring, center cap	2
14	830120	Bearing, front and center	4
15	830140	Spacer	A/R
16	830171	Shaft, center	1
17	830151	Gear, low (center shaft)(Sold in match sets - use part #830450)	1
18	830161	Gear, intermediate (Sold in match sets - use part #831470)	1
19	830181	Gear, high (center shaft)(Sold in match sets - use part #830460)	1
20	830321	Cap, front (bore)	1
21	830060	'O' ring	1
22	830201	Gear, low (front shaft)(Sold in match sets - use part #830450)	1
23	830270	Bearing, inner gear	1
24	830260	Spacer, inner gear	3
25	900537	Key, Input Sprocket	1
26	830211	Shaft, front	1
27	830221	Gear, clutch	1
28	830231	Gear, high (front shaft)(Sold in match sets - use part # 830460)	1
29	830251	Cap, plain	1
30	830291	Fork, shifter	1
31	830300	Collar, shifter fork	2
32	830311	Shaft, shifter	1
33	830191	Stick, dip	1
34	830393	Housing, main gear box	1
35	830402	Plate, top cover (N/S)	1
36	830240	Bushing, bronze	1
37	830280	Seal, shifter	1
38	900535	Seal, Front	1
39	900538	Sprocket, Input (60P26)	1
40	900530	Bushing, Input Sprocket (Shown in reverse position)	1

		*** GROUPS SOLD IN MATCH SETS ONLY**	
	*830450	Low Gear, (For Centershaft) & Low Gear, (For Frontshaft) Set	
	*830455	Bull & Intermediate Gear (Set)	
	*830460	High Gear, (For Centershaft) & High Gear, (For Frontshaft) Set	
	831470	*Kit, Heavy Duty Bull & Intermediate Gear, Rear Shaft & Spacer Set (NOTE: When replacing these items, do not install snap ring on rear shaft, on models that have the chain going down to gearbox..)	

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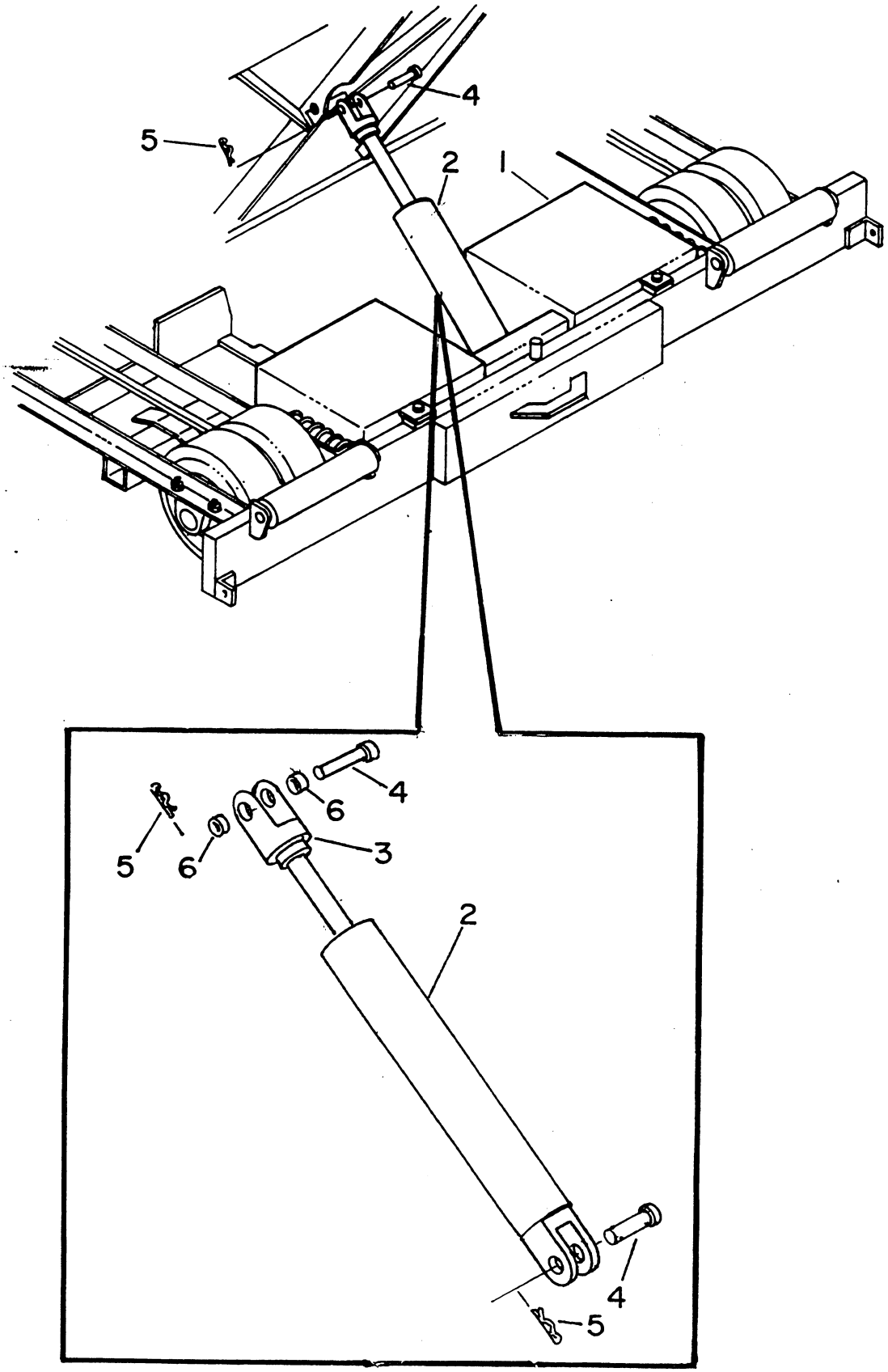
DRIVE MOTOR ASSEMBLY

(2 SPEED) (AND SINGLE SPEED)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	900407	Drive Tray	1
2	810240	Motor, hydraulic	2
3	860044	Washer, lock (1/2")	4
4	810245	Bolt, hex (1/2" x 1 3/4")	4
5	900425	Sprocket, coupling (1 1/4" Spline)	2
6	900404	Chain, coupling (50/2)	2
7	900421	Link, Double Master(50)	1
8	900414	Shaft, L - H Jack	1
9	900415K	Key 1" x 3/8"	1
10	900430	Sprocket, drive (60B 11 x 1 1/4")	2
11	900408	Bearing, pillar (1 1/4")	2
12	860045	Bolt, hex (1/2" x 1 1/2")	4
13	860044	Washer, lock (1/2")	4
14	860053	Washer, flat (1/2")	4
15	900415	1 1/4" Coupling, torque limitor	1
16	900426	Chain Coupling (Double 40)	1
17	900424	Limitor, Torque (1" x 1 1/4") Includes Items 15, 16 & 17	1
18	900405	Shaft, R.H. Jack	1
19	900410	Disk, Torque Limitor	2
20	900412	Key (1/4" x 2")	1
21	900532	Chain, drive (60H)	2
22	860049	Link, Master (60H)	1
23	900423	Link, 1/2 (N/S)	2
24	900427	Cover, Drive Tray (N/S)	1
		NOTE: Caps & Bearings same as 2 speed box (* Must Buy Both Pieces)	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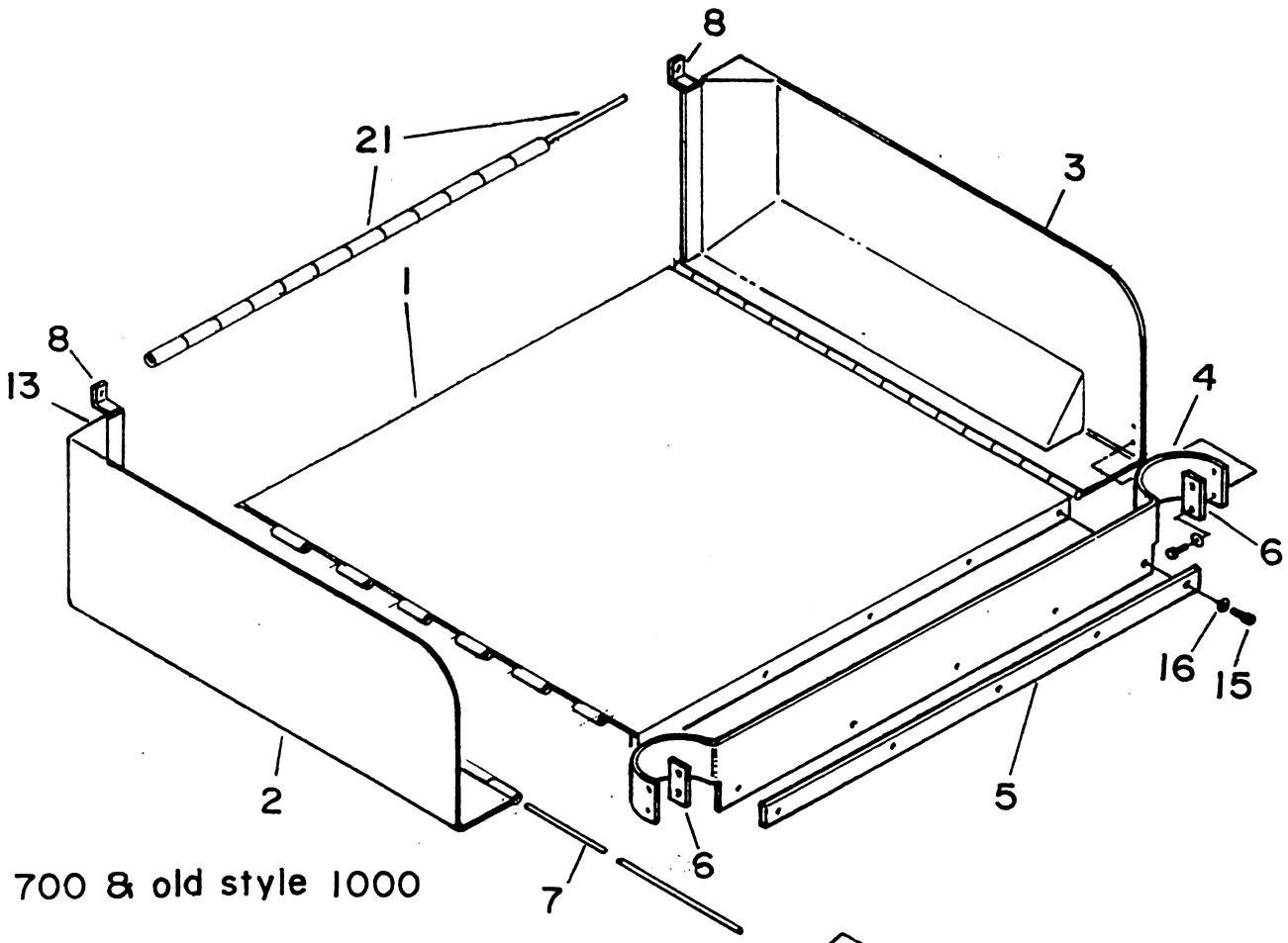
HYDRAULIC RESERVOIR AND HOPPER LIFT CYLINDER

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	930034	Reservoir, Hydraulic	1
2	930036	Cylinder, Hopper Lift (4 x 14)	1
3	930037	Yoke, Cylinder Hopper	1
4	930038	Pin (Hardened)	2
5	930039	Pin, Cotter	2
6	930041	Bushing	2
7	870313	Kit, Hopper Cylinder (N/S)	1



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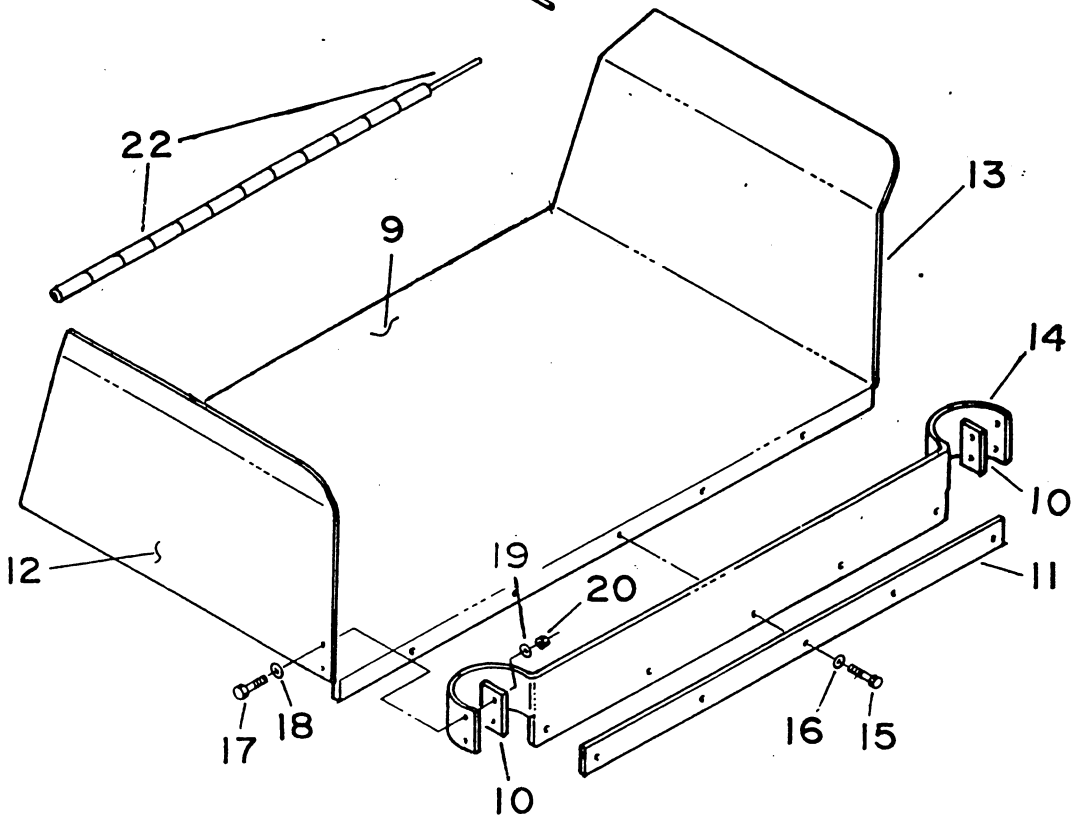
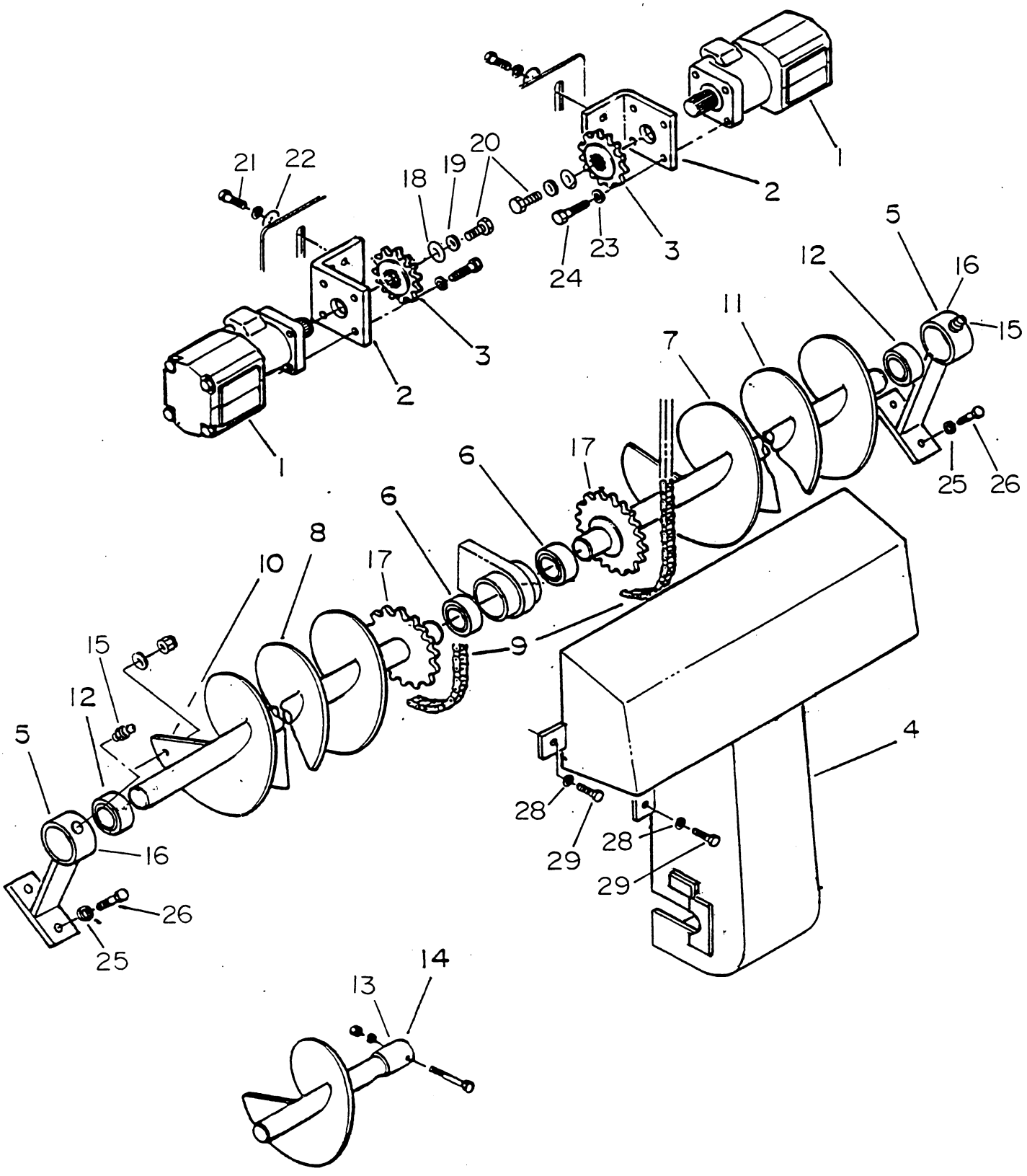


9 ft. model

HOPPER AND HOPPER SIDEWINGS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	930000	Floor, Hopper (8')	1
2	930001	Sidewing, Right (8')	1
3	930002	Sidewing, Left (8')	1
4	930003	Shield, Front (Rubber) (8')	1
5	930004	Bracket, Shield (8')	1
6	930005	Bracket, End Shield (8')	2
7	930006	Pin, Sidewing	2
8	930007	Guide, Sidewing	2
9	930008	Floor, Hopper (9')	1
10	930009	Bracket, End Shield (9')	2
11	930011	Bracket, Shield (9')	1
12	930012	Sidewing, Right (9')	1
13	930013	Sidewing, Left (9')	1
14	930014	Shield, Front (Rubber) (9')	1
15	930016	Bolts (3/8" x 1 1/4")	7
16	930024	Washers, (Lock) (3/8")	11
17	930018	Bolts, (3/8" x 1 1/2")	4
18	930019	Washers, (Flat) (3/8")	4
19	930024	Washers, (Lock) (3/8")	11
20	930021	Nuts, (3/8")	11
21	930022	Hinge, Hopper (8')	1
22	930023	Hinge, Hopper (9')	1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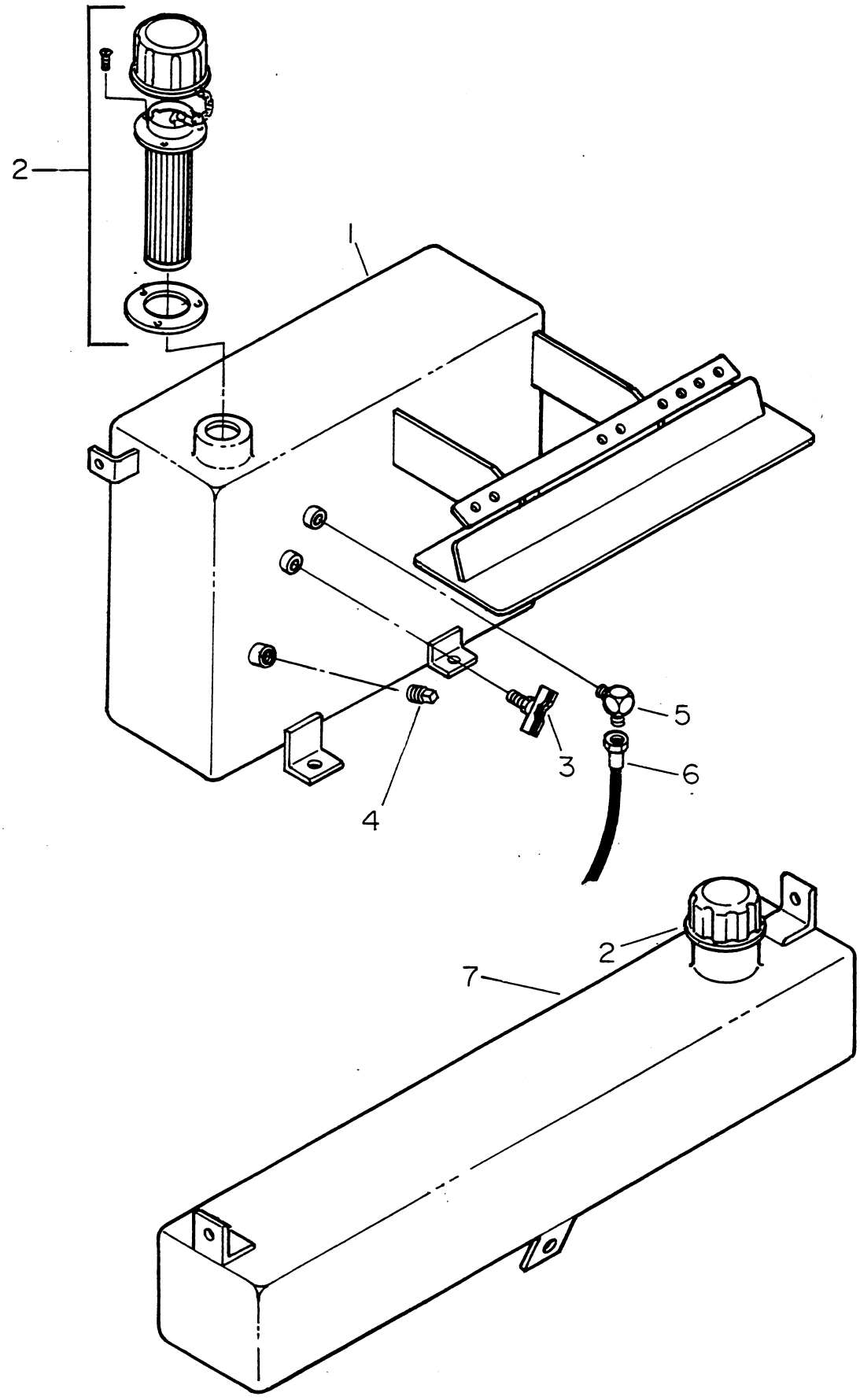
AUGER ASSEMBLY - 700

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	*860010	Motor, Hydraulic (Auger)	2
2	860021	Support, Motor (Auger)	2
3	900613	Sprocket, Auger Motor (Splined - 12 Tooth) (Used On Newer Model 1000, 900 & 700 Machines)	2
4	900616	Cover, Auger (New Style)	1
5	900618	Mount, Auger End (New Style)	2
6	850130	Bearing, Auger Inner	2
7	900607	Auger, L/H (9') (53 1/2" Long)	1
	900619	Auger, L/H (8') (46 1/2" Long)	1
8	900607A	Auger, R/H (9') (53 1/2" Long)	1
	900620	Auger, R/H (8') (46 1/2" Long)	1
9	860090	Chain, Auger (60H)	2
10	860100	Flight, Auger (R/H) (Welds On)	A/R
11	860110	Flight, Auger (L/H) (Welds On)	A/R
12	860121	Spacer, (Welds On)	2
13	860132	Extension, Auger (L/H) (Made For 8' to 13' Machines)	1
14	860133	Extension, Auger (R/H) (Made For 8' to 13' Machines)	1
15	900612	Fittings, Grease	2
16	900617	Tubing, End Mount	1
17	860035	Sprocket, Auger (60A18) (Welds On)	2
18	860036	Washer, Fender 1/4"	2
19	860037	Washer, Lock 1/4"	2
20	860038	Bolt, (1/4" x 1")	4
21	860039	Bolt, (5/8" x 1 1/4")	4
22	860040	Washer, Flat 5/8"	4
23	860041	Washer, Lock 3/8"	8
24	860042	Bolt, 3/8" x 1 1/4"	8
25	860044	Washer, Lock 1/2"	4
26	860045	Bolt, 1/2" x 1 1/2"	4
27	860046	Nuts, 7/16" (N/S)	A/R
28	860047	Washers, Lock 7/16"	A/R
29	860048	Bolts, (7/16" x 1 1/4")	2
30	860049	Link, Master (60H) (N/S)	2
		(N/S) NOT SHOWN	

*** WHEN ORDERING SEAL KITS GIVE TYPE OF MOTOR AND MODEL # OF MOTOR ***

	SEAL KITS FOR AUGER MOTORS	
*860012	Kit, Seal (Auger Motor) (MG) (Newer Type Motors)	1
860014	Kit, Seal (Auger Motor) (MAG & MAC) (MAC500001 Is used For Both Model Motors)	1
860016	Kit, Seal (Auger Motor) (Char-Lynn) (005 & 006 Use Same Seal Kit) (Older Model Motors)	1
860018	Kit, Seal (Auger Motor) (Char-Lynn) (007 & 008 Use Same Seal Kit) (Older Model Motors)	1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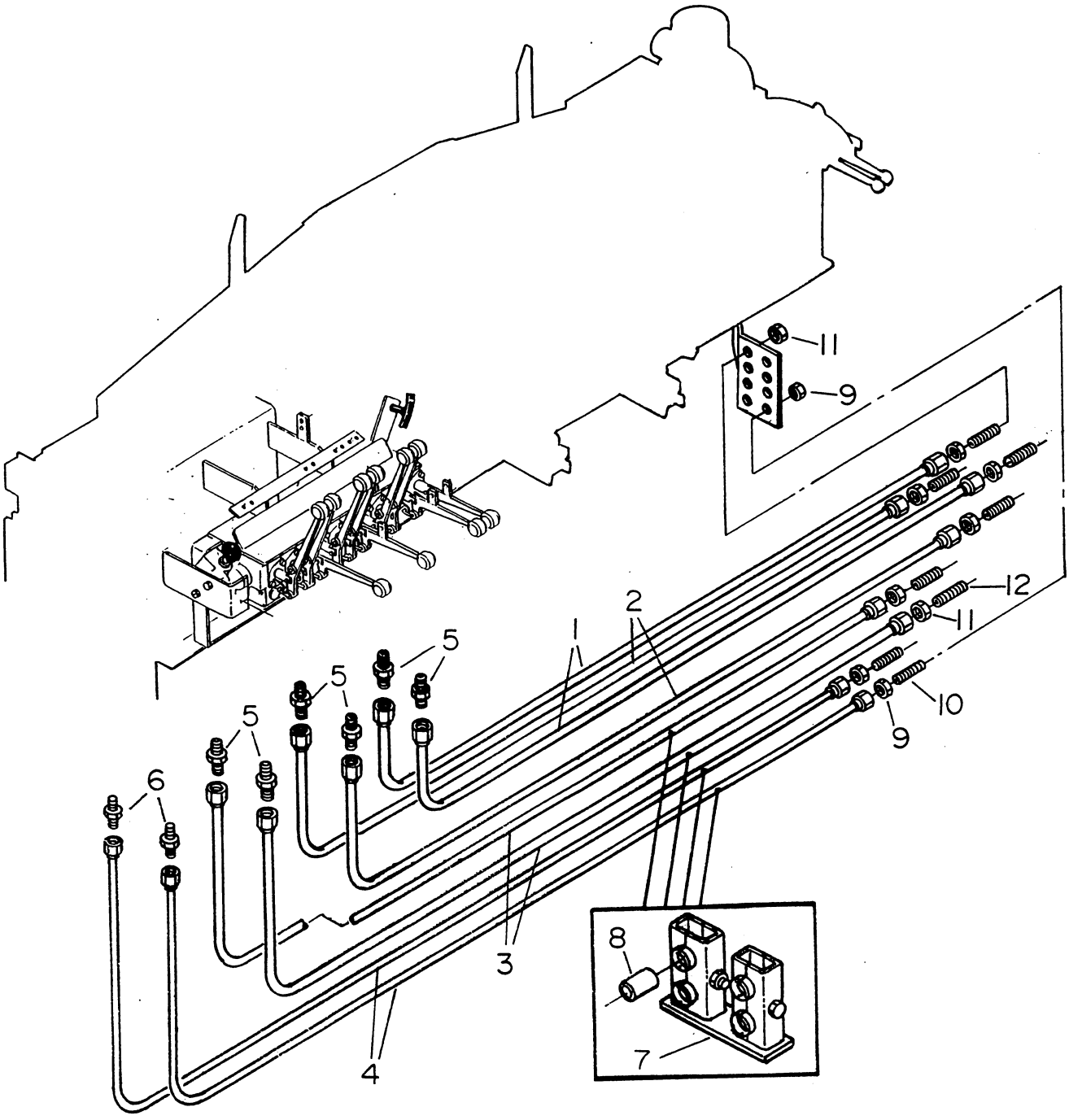
TANK, HYDRAULIC/SPRAY DOWN DIESEL TANK

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	840014	Tank, hydraulic	1
2	910160	Cap, breather	1
3	910150	Petcock	1
4	900480	Plug	1
5	910129	Elbow, 90°	1
6	910128	Hose, vent	1
7	900482	Tank, (diesel) For Spraydown (Gas Engine)	1
8	910020	Strainer, suction (N/S)	1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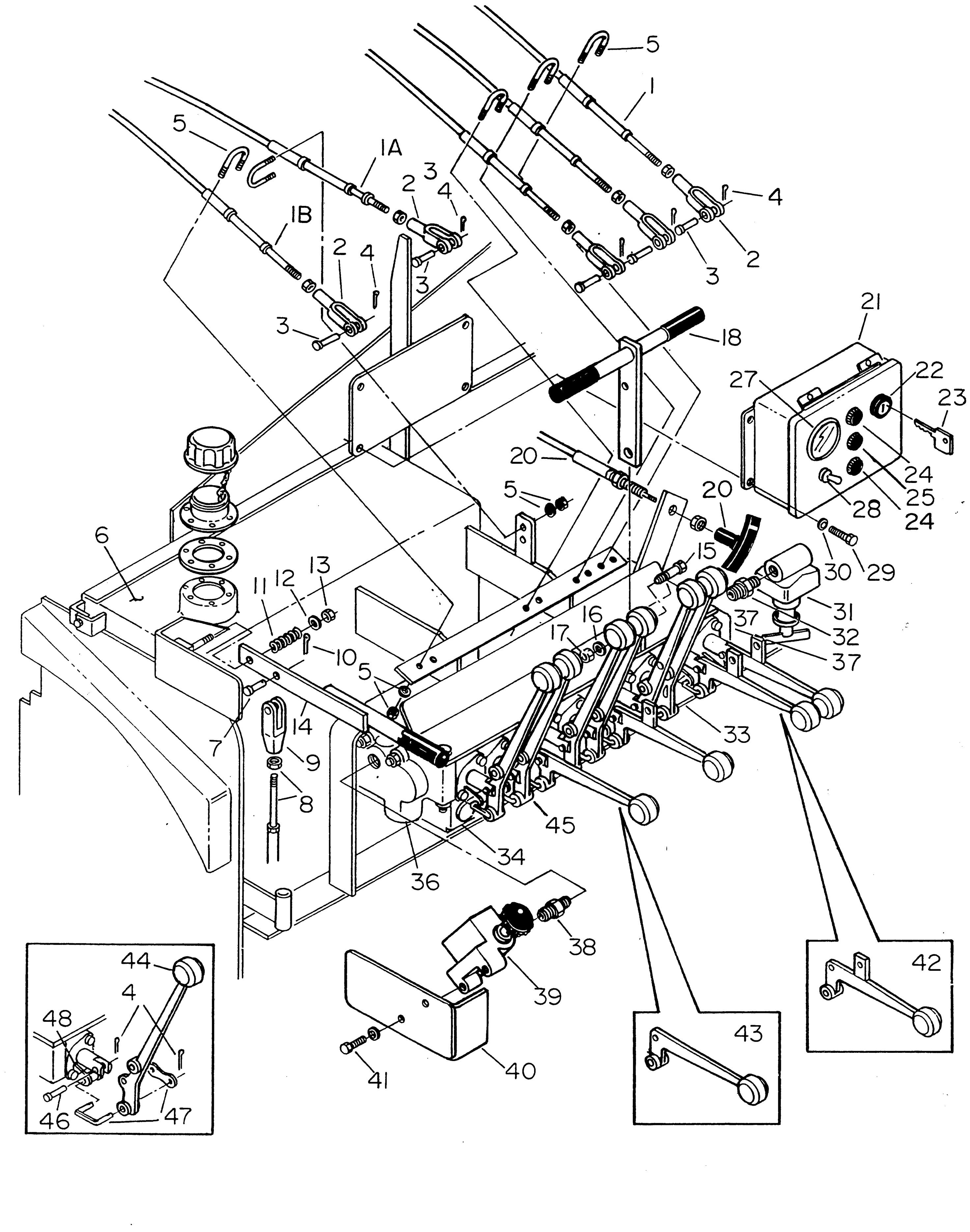
HYDRAULIC TUBING LINES

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	901017	Line, hydraulic (To right hand drive)	2
2	901018	Line, hydraulic (To left hand drive)	2
3	901019	Line, hydraulic (To Front Hopper)	2
4	901020	Line, hydraulic (To right cut-off)	2
5	900487	Adapter	6
6	900489	Adapter	2
7	900490	Bracket, line	1
8	900491	Grommet, rubber - Specify for lip or cut-off	4
9		Nut, hex (Comes with Item #10)	4
10	900493	Nipple & Nut	2
11		Nut, hex (Comes with Item #12)	12
12	900495	Nipple & Nut	6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HYDRAULIC VALVE ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	920120	Cable, Valve Control (104" x 3") Right & Left Hand Drive & Auger (Same)	3
1A	920130	Pump Cable (123" x 3")	1
1B	920140	Extension Cable (116" x 3")	1
2	350050	Clevis, Cable 1/4"	9
3	850099	Pin, Clevis 1/4" x 1 1/4"	9
4	910057	Pin, Cotter 1/16"	9
5	870289	'U' Bolt 3/8"	9
6	840014	Tank, hydraulic (See page 18 for further breakdown)	1
7	850098	Pin, Clevis 3/8"	2
8	810060	Cable, Shift	1
9	810050	Clevis, Cable 3/8"	1
10	960019	Pin, Cotter 3/32	2
11	960021	Spring 1/2" x 2 1/2"	1
12	930019	Washer, 3/8	1
13	960025	Nut, hex (Lock) 3/8	1
14	960027	Handle, Shifter	1
15	960029	Bolt, hex 5/8 x 2"	1
16	811356	Washer, lock 5/8"	1
17	920147	Nut, hex	1
18	960035	Handle, drive 'T'	1
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20	920150	Cable, throttle 36 wire Deutz	1
21	900154	Instrument box Dash, Complete (Deutz)	1
22	900156	Ignition, Switch (Deutz)	1
23	900158	Key (Deutz)	2
24	900160	Light, red	2
25	900170	Light, green	1
26	320360	Bulb (N/S)	3
27	900130	Gauge, Hour Meter	1
28	500040	Switch, toggle (Spraydown)	1
29	960054	Bolt, hex 5/16 x 1"	4
30	960055	Washer, lock 5/16"	4
31	901009	Relief	1
32	960058	Adapter, 3/4" Pipe to 3/4" Pipe	1
33	920050	Mid Inlet Relief	1
34	960061	Valve, control	1
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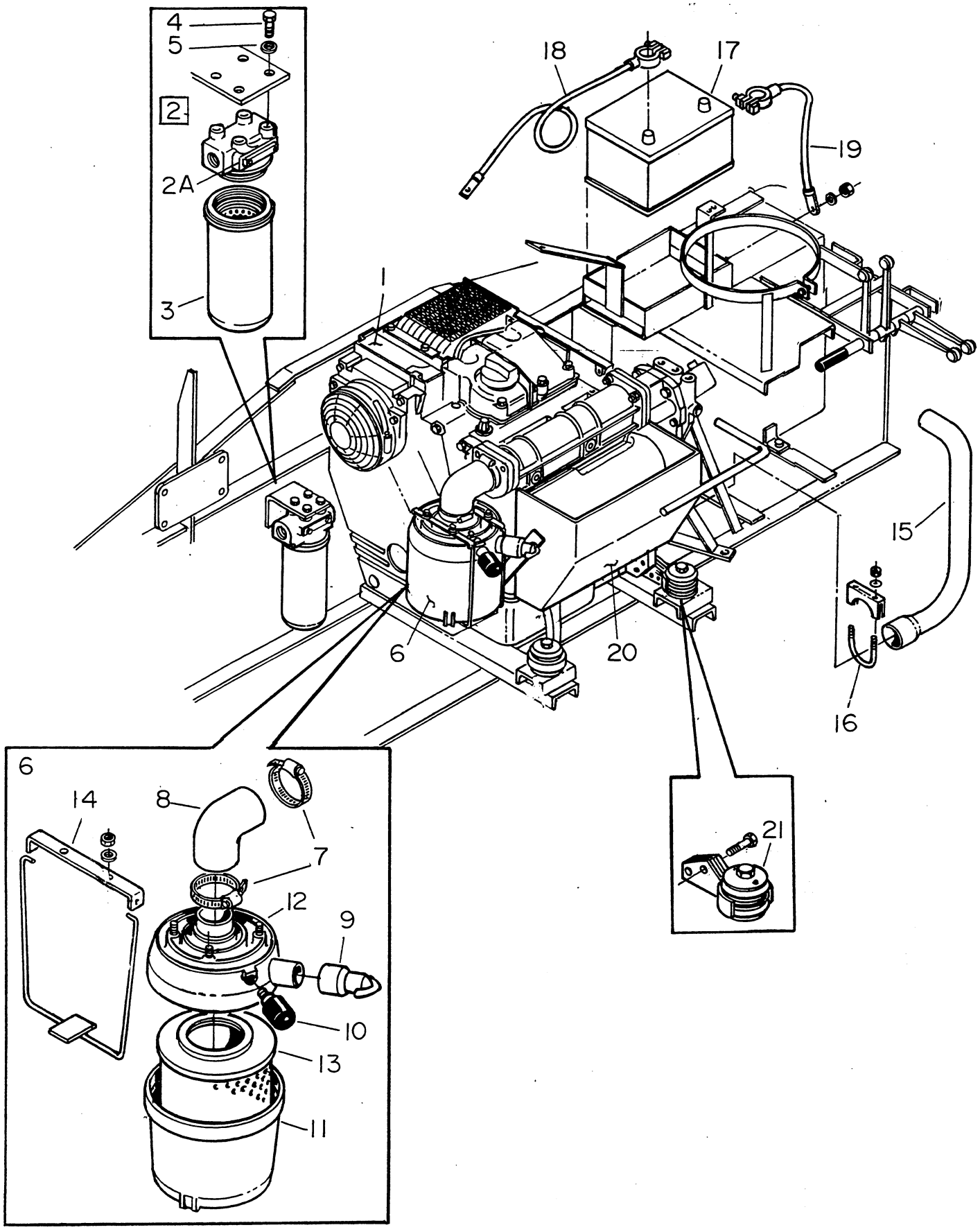
36	960063	Cover, Power Beyond	1
37	960065	Cover, Outlet	1
38	920233	Adapter 1/2" Pipe to 1/2" Pipe	1
39	910080	Valve, vibrator (Selector)	1
40	920234	Shield	1
41	920237	Bolt, hex 5/16 x 2"	2
42	960060	Handle, horizontal w/clevis attachment	2
43	910070	Handle, horizontal control	4
44	910060	Handle, vertical control	6
45	910057	Cotter Pin	1
46	850099	Pin (1/4" x 1 1/4")	
47	901010	Link, handle	10
48	910058	Bracket, handle (Aluminum)	10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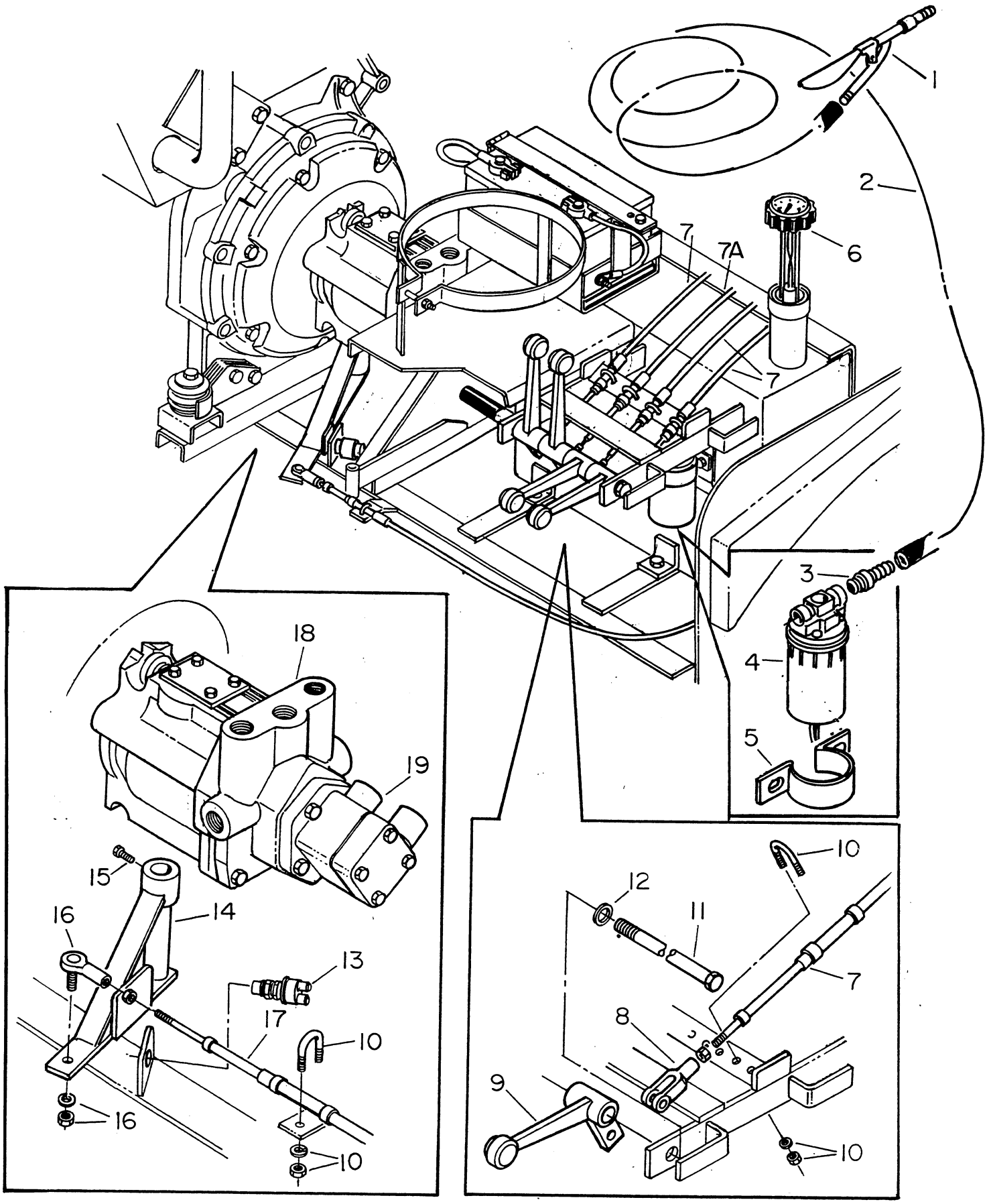
DEUTZ ENGINE PARTS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	960078	Engine 2 cyl. Deutz	1
2	290025	Head, (Chargefilter) (Complete)	1
2A	290012	Gauge, head	1
3	290030	Element, hydraulic (charge)	1
4	290032	Bolt, hex 3/8" x 1"	4
5	290034	Washer, lock 3/8"	4
6	950012	Filter Assembly (Complete) (Items in block as shown)	1
7	960074	Clamp	2
8	960075	Hose, elbow	1
9	950014	Cap, rubber	1
10	950016	Gauge, pop-off	1
11	960077	Shell, Lower Container (Not Available comes with complete Filter Assembly, When ordering this part use part #950012)	1
12	960079	Cap, upper container	1
13	950000	Filter, element	1
14	950018	Bracket, hold-down for Air Filter	1
15	960080	Pipe, exhaust	1
16	960081	Clamp	1
17	920152	Battery	1
18	960085	Cable +	1
19	960086	Cable, ground	1
20	950003	Shield, exhaust	1
21	900129	Mount, rubber (Deutz)	1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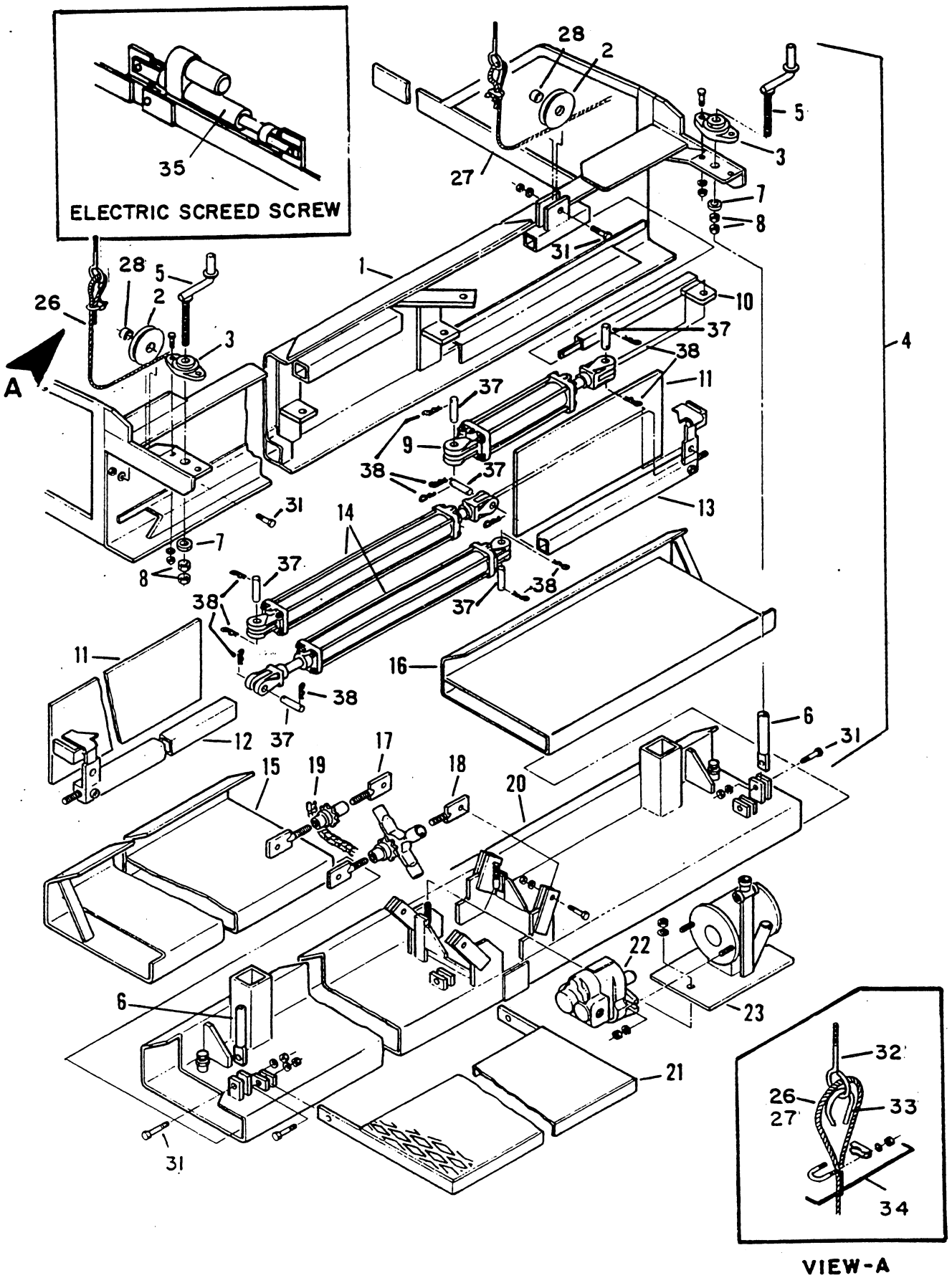
VARIABLE VOLUME CONTROL ASSEMBLY/ RIGHT HAND DRIVE ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	920220	Handle, spraydown	1
2	920219	Hose, (15' - 5/16")	1
3	920218	Coupling, hose (5/16")	1
4	900010	Pump, spraydown (flojet)	1
5	900012	Bracket, pump (spraydown)	1
6	910010	Gauge, fuel	1
7	920120	Cable, right hand control (104" x 3") RD, LD & Auger Cables	3
7A	920140	Extension Cable (116" x 3")	1
8	350050	Clevis, yoke 1/4"	4
9	920210	Handle, right hand control	4
10	870289	'U' Bolt 3/8"	5
11	960090	Rod, right hand drive control	1
12	960091	Washer, flat	1
13	900122	Switch, Safety	1
14	960093	Lever, pump	1
15	960094	Bolt, hex (5/16" x 1 1/4")	1
16	920090	Rod End, Spherical, With Stud	1
17	920120	Cable, pump (123" x 3")	1
18	960097	Pump, Comp. W. #19	1
19	960099	Pump (Piggy Back)	1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SCREED BACK ASSEMBLY - 700

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	900670	Screed Back Assy. with Cylinder (N/S) (Complete) (8'0" X 15")	1
1	900736	Screed Assy. (Complete With Cylinders 9' 2" X 15") Includes Inserts, Crown & Valley.	1
2	870020	Pulley, Screed	2
3	870030	Bearing, Screed Flight Screw	2
4	870042	Screw Assy., Screed Flight (Complete)	2
5	800403	Screw Handle (N/A) (Must Buy Complete Screw Assy.) Part #870042	N/A
6	800404	Screw Receiver (N/A) (Must Buy Complete Screw Assy.) Part #870042	N/A
7	870071	Spacer	2
8	870080	Nut	4
9	870090	Hydraulic Cylinder, Screed Lift 3" x 10"	1
9A	870091	Hydraulic Cylinder Screed Lift 2 1/2" x 12 (Serial #1570 and above)	
10	870102	Guide Arm, Screed Lift	1
10A	870103	Guide Arm, Screed Lift (Used with 2 1/2" x 12" Cylinder) (New Style)	1
11	870112 *A	Guide Plate, Screed Extension (6" Shorter)	2
12	870122	Guide Arm, Screed Extension L/H	1
13	870132	Guide Arm, Screed Extension R/H	1
14	900705	Hydraulic Cylinder, Screed Extension 2" x 24" (9' - 1000, 900 & Some Older 8000 & 1000 Models) (N/S)	1
15	870153	Inner Extension, Screed L/H	1
16	870163	Inner Extension, Screed R/H	1
17	870172	Turnbuckle, Crown & Valley (Front)	1
18	870182	Turnbuckle, Crown & Valley (Rear)	1
19	870190	Chain, Crown & Valley (for Turnbuckle) #40	1
20	900724	Screed, (700) (9' 2" x 15")	1
	900726	Screed, (700) (8'0" x 15")	
21	900708	Walkboard (9')	2
21A	870212	Walkboard (8')	2
22	870220	Hydraulic Motor, Screed Vibrator	1
23	870232	Eccentric Mounting Pad, Screed Vibrator	1
24	870240	12" Screed Extension Plates (N/S)	A/R
25	870250	6" Screed Extension Plates (N/S)	A/R
	900716	Screed Extension Plates (Kit) 3 - 1' 2 - 6" (N/S)	1
26	870260	Cable, Screed Lift L/H Size (3/8") 96"	1
27	870270	Cable, Screed Lift R/H 43"	1
28	870274	Bearing, Pulley	2
29	870276	Boots, Rubber (Handles) (N/S)	6
31	870279	Bolts, Shoulder (For Pulley)	2
32	870284	Eyebolt, 6" long 1/2"	2

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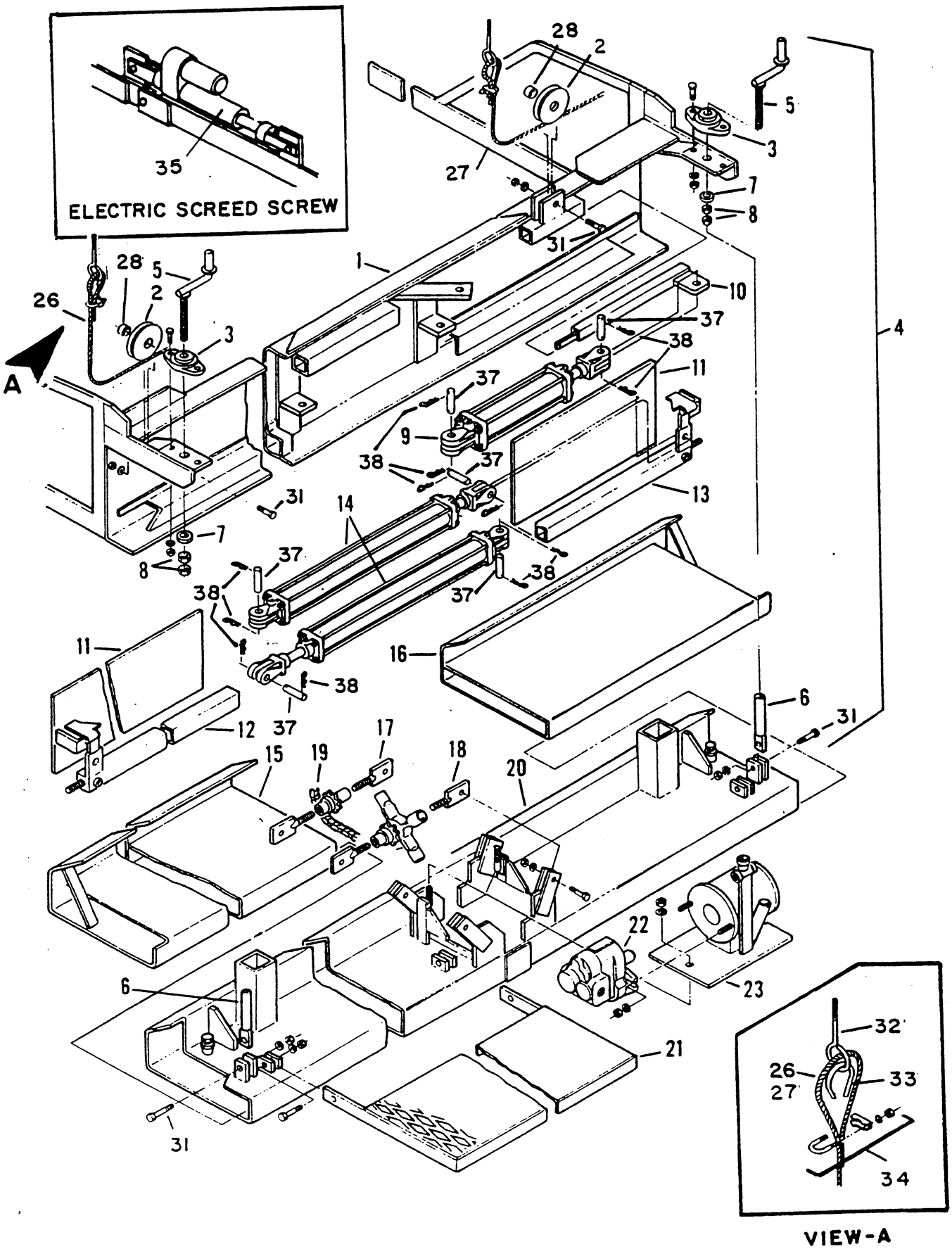
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ITEM NO.	PART NO.	DESCRIPTION	QTY.
33	870286	Thimble, 3/8"	4
34	870289	U-Bolt, 3/8"	4
35	870302	Screw, Electric	2
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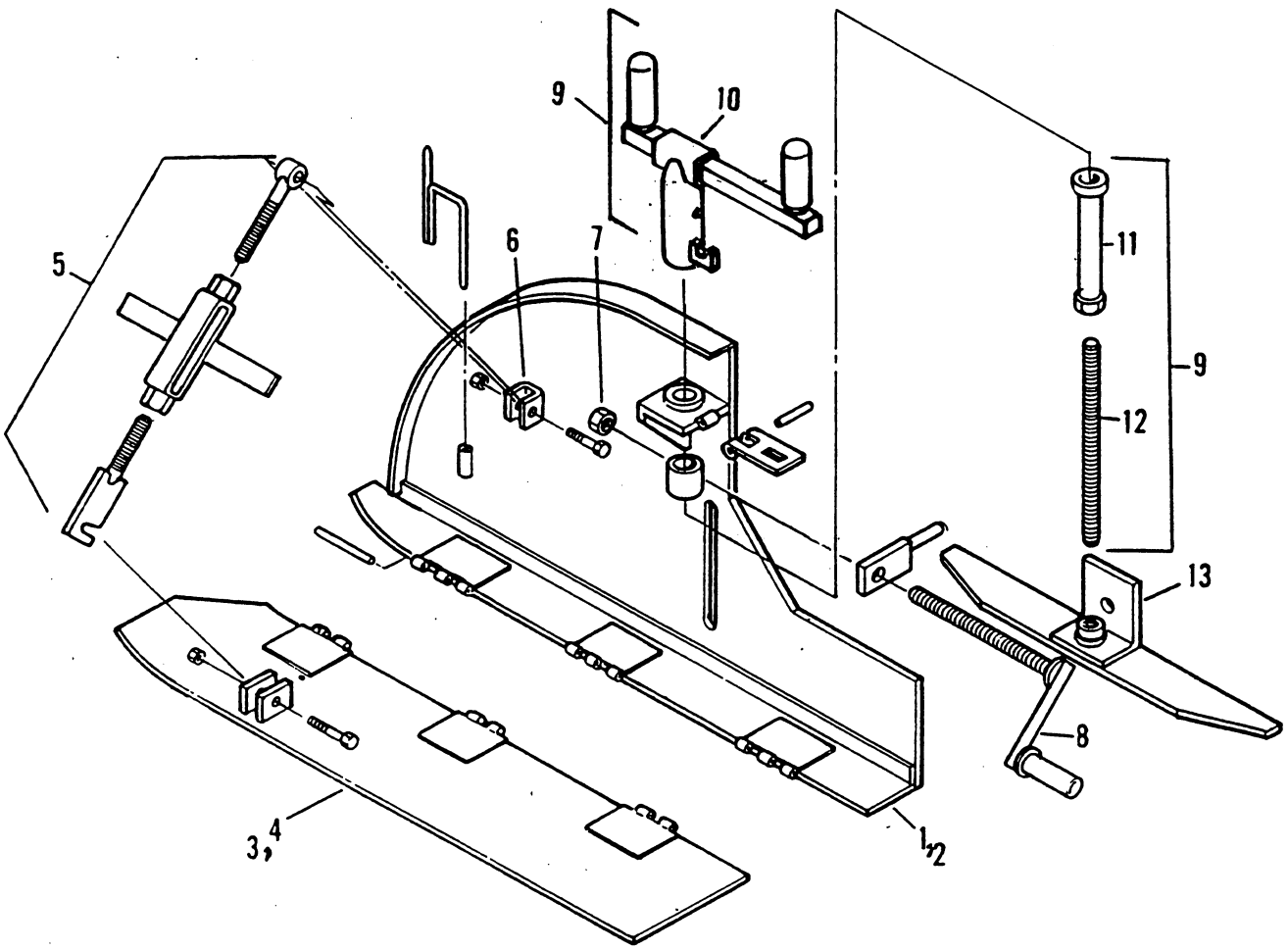
37	870305	Pins, Cylinders	6
38	870307	Clips, Pins	6
		ACCESSORIES	
	900738	Strike-off Plates (6")	AR
	900739	Strike-off Plates (1')	AR
	900740	Strike-off Plates (1' - 6")	AR
	900741	Strike-off Plates (2')	AR
		NEED MODEL & SERIAL # OF PAVER	
		— ROCKFORD, BOBALEE —	
		SEAL KITS HYD. CYLINDERS	
	870309	Seal Kit, Extension Cylinder (N/S) (2 x 24)	1
	870311	Seal Kit, Screed Lift Cylinder (N/S) (3 x 10)	1
	870315	Seal Kit, Screed Lift Cylinder (N/S) 2 1/2 x 12)	1
	870312	Seal Kit, Extension Cylinder (2 1/2 x 30 or 2 1/2 x 4)	1
		NEED NAME BRAND & MODEL # OF MOTOR	
		SEAL KITS FOR HYD. MOTORS	
	870314	Seal Kit, Hydraulic Motor (Vibrator)	1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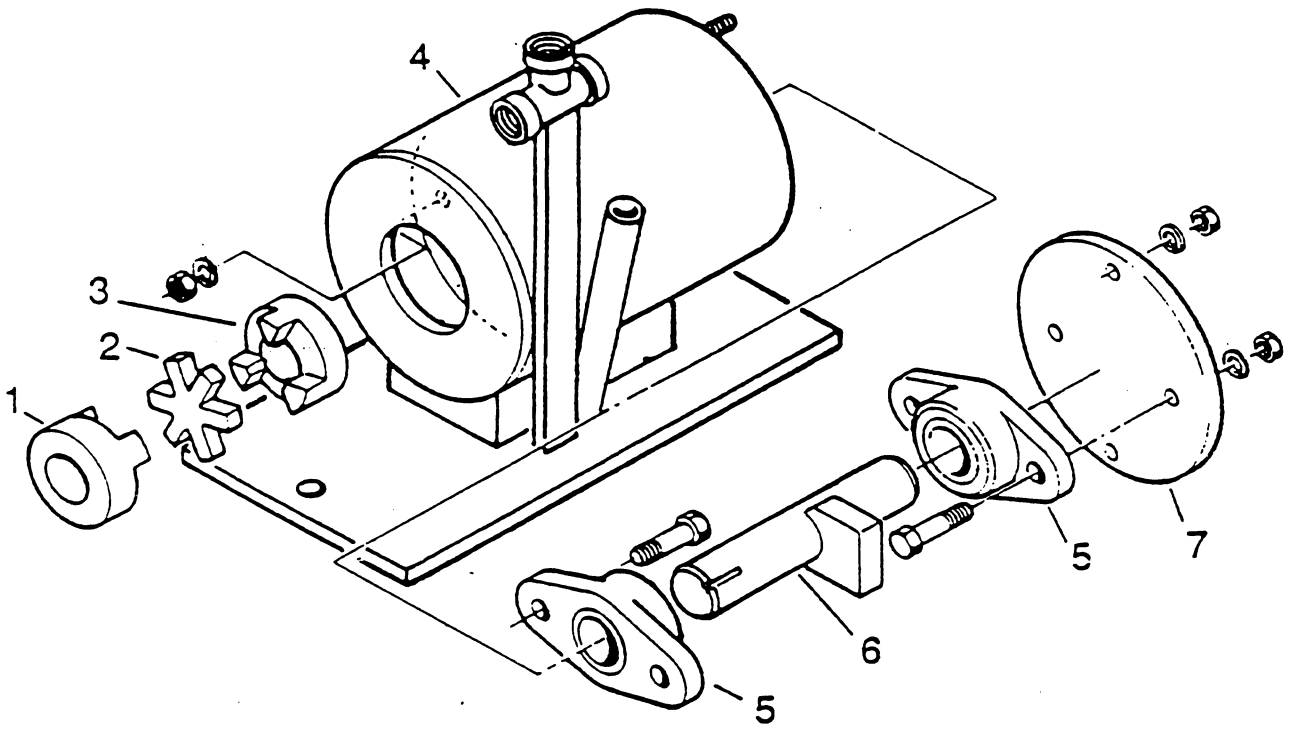
JOINTER ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	890001	Jointer Assy. cpt., L/H (Shown)	1
	890002	Jointer Assy. cpt., R/H	1
1	890011	Jointer, Guide Support, L/H	1
2	890021	Jointer, Guide Support, R/H	1
3	890031	Jointer Guide, L/H	1
4	890041	Jointer Guide, R/H	1
5	890051	Turnbuckle Assy.	2
6	890060	Bracket	2
7	890070	Nut	2
8	890081	Tilt Screw, Jointer	2
9	890092	Depth Screw (Complete)	2
10	890102	Handle, Depth Screw sliding type	2
		(Must Buy Complete - Use Part #890092)	N/A
11	890111	Receiver, Depth Screw	2
		(Must Buy Complete - Use Part #890092)	N/A
12	890121	Screw	2
13	890132	Bracket, Depth Screw Control (L/H)	1
	890132A	Bracket, Depth Screw Control (R/H)	1
14	870276	Boot Rubber (handles) (N/S)	A/R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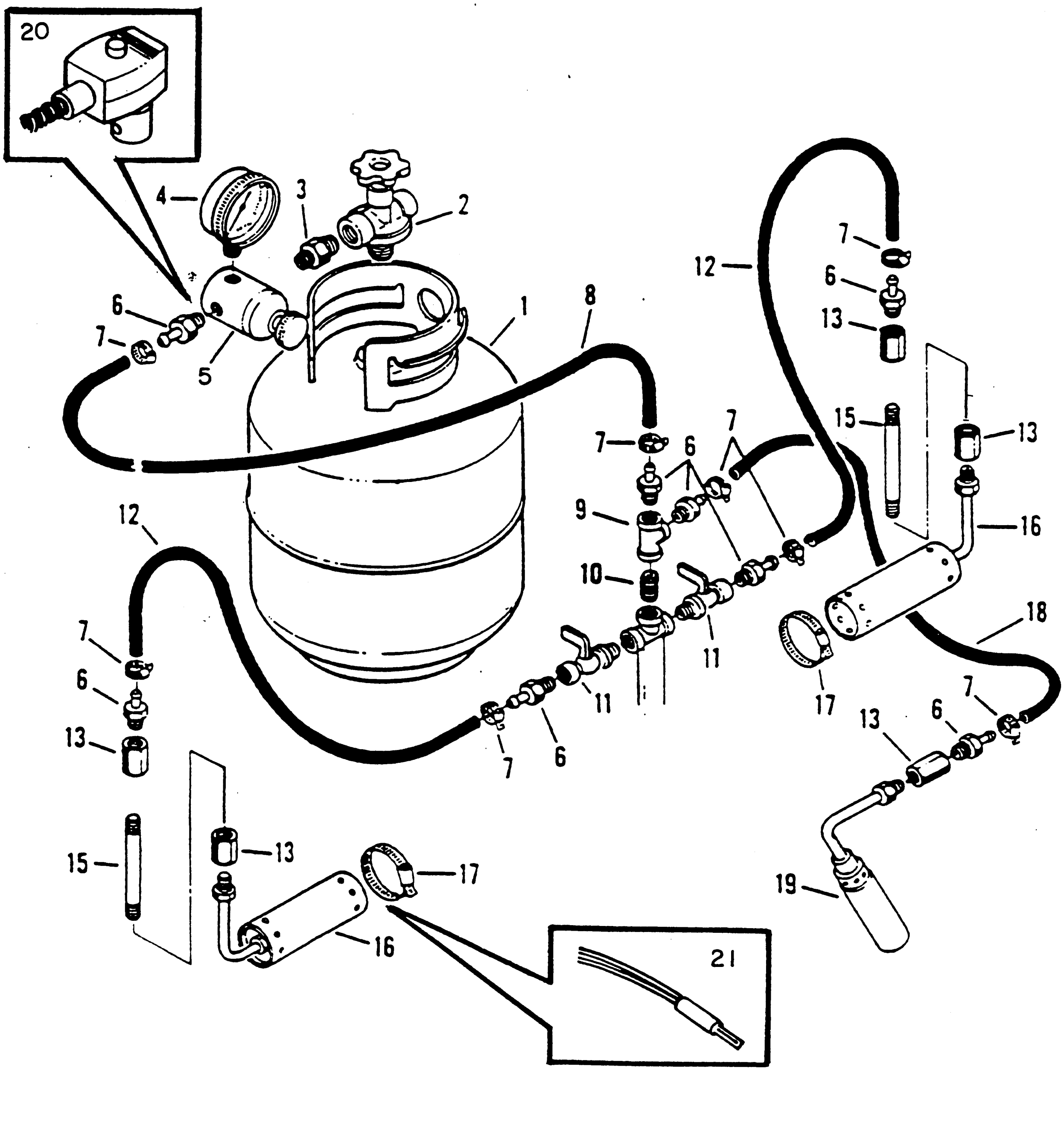
VIBRATOR ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	800417	Vibrator Assembly (Includes 1-7)	
1	280030	Coupling, Vibrator Motor (5/8")	1
2	280040	Insert, Coupling (JS4N)	1
3	880030	Coupling, Vibrator Eccentric (1")	1
4	880042	Housing, Vibrator Eccentric	1
5	250150	Bearing	2
6	880062	Shaft, Vibrator Eccentric	1
7	880071	Plate, Vibrator Housing	1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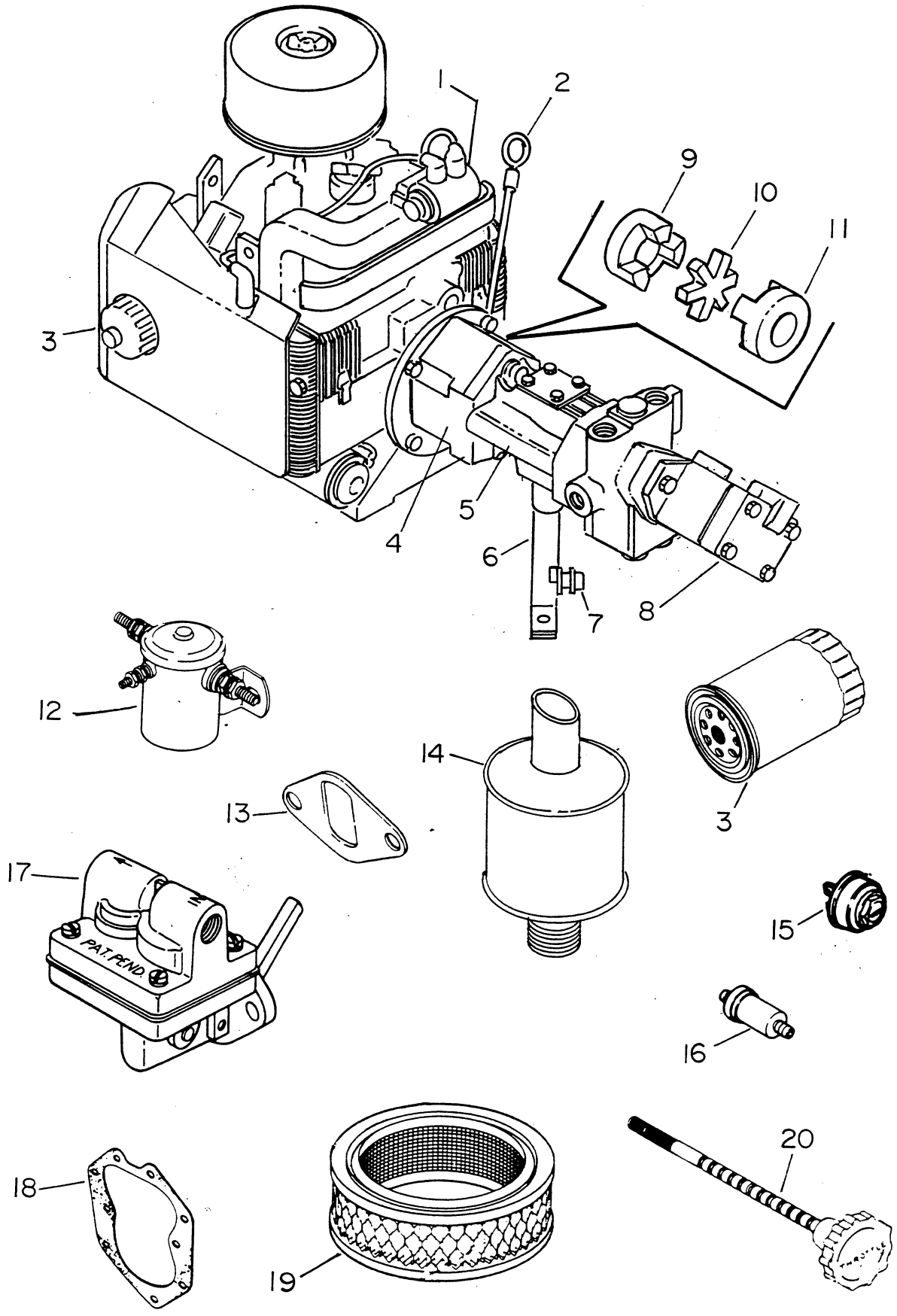
PROPANE HEATER ASSEMBLY & AUTOMATIC IGNITORS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	230010	Tank, Propane (Complete	1
2	230020	Valve, Propane Tank, (N/A) (Comes With Tank) (When ordering this part use part #230010)	N/A
3	230030	Adaptor, P.O.L. (N/A) (Comes With Regulator) (When ordering this part use part #230100)	N/A
4	230110	Gauge, Gas Pressure (N/A) (Comes With Regulator) (When ordering this part use part #230100)	N/A
5	230100	Regulator, Propane (Complete	1
6	230150	Adaptor, Hose to Pipe	8
7	230160	Clamp, Hose	8
8	230000	Hose	1
9	230080	Tee, Pipe	1
10	230140	Nipple, Pipe	1
11	230070	Valve, Cutoff	3
12	230000	Hose	1
13	230170	Adaptor, Pipe to Burner Nozzle	6
15	230999	Nipple, Pipe	3
16	230191	Burner Nozzle, Screed (BP6)	2
17	230240	Clamp, Nozzle Holder	2
18	230000	Hose	1
19	230200	Burner Nozzle, Ignitor (BP4)	1
		AUTOMATIC IGNITORS (BURNERS)	
20	230022	Valve, Electric	1
21	230024	Heaters, 12 VDC	2
22	900122	Button, Preheat (N/S)	1
23	500040	Switch, Toggle (N/S)	1
24	910025	Burner, Screed (BP5) (N/S) (Older Model 500 & 800 Pavers) (N/S)	2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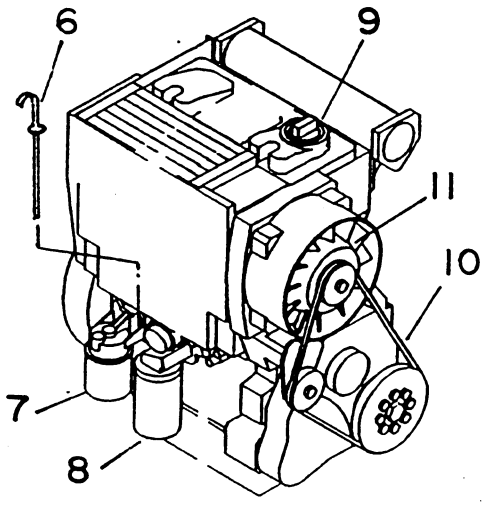
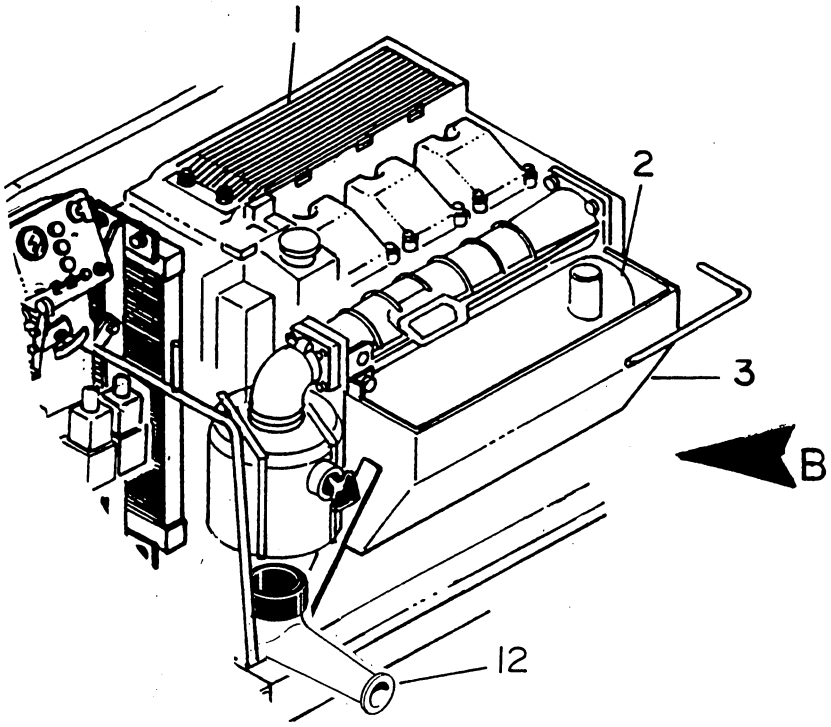
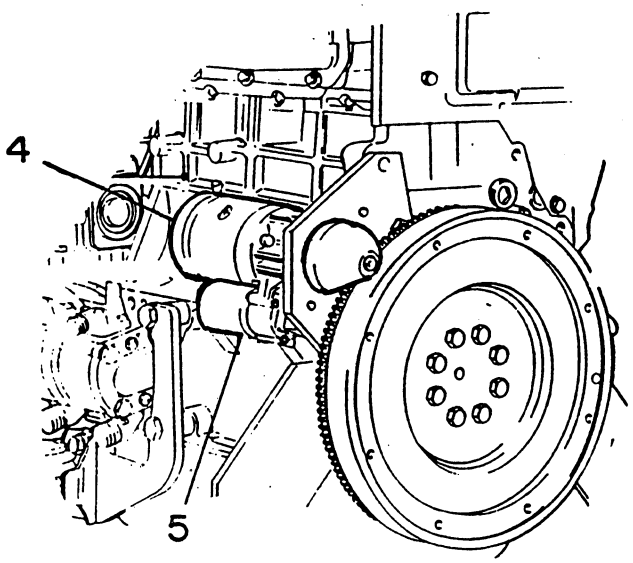
KOHLER ENGINE COMPONENTS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	800026K	23 H.P. Kohler Engine (Gas)	
1	277375	Coil	
2	4803802	Stick, dip	
3	5205002	Filter, Oil	
4	320404	Housing, coupling	
5	530040	Pump, variable	
6	320407	Arm, shifting	
7	900122	Switch, safety	
8	530050	Pump, single vane	
9	800001	Coupling, motor (1 7/16")	
10	800003	Insert, coupling	
11	320409	Coupling, pump (15 Tooth Splines)	
12	4840403	Solenoid	
13	2504109	Gasket, Fuel Pump	
14	500120	Muffler, engine	
15	270232	Ignition, starter	
16	2505003	Filter, fuel	
17	320406	Pump, fuel (Must give serial number when ordering)	
18	4804110	Gasket, cylinder head	
19	235116	Element, air cleaner	
20	277148	Cable, choke	



VIEW IN DIRECTION OF ARROW 'A'

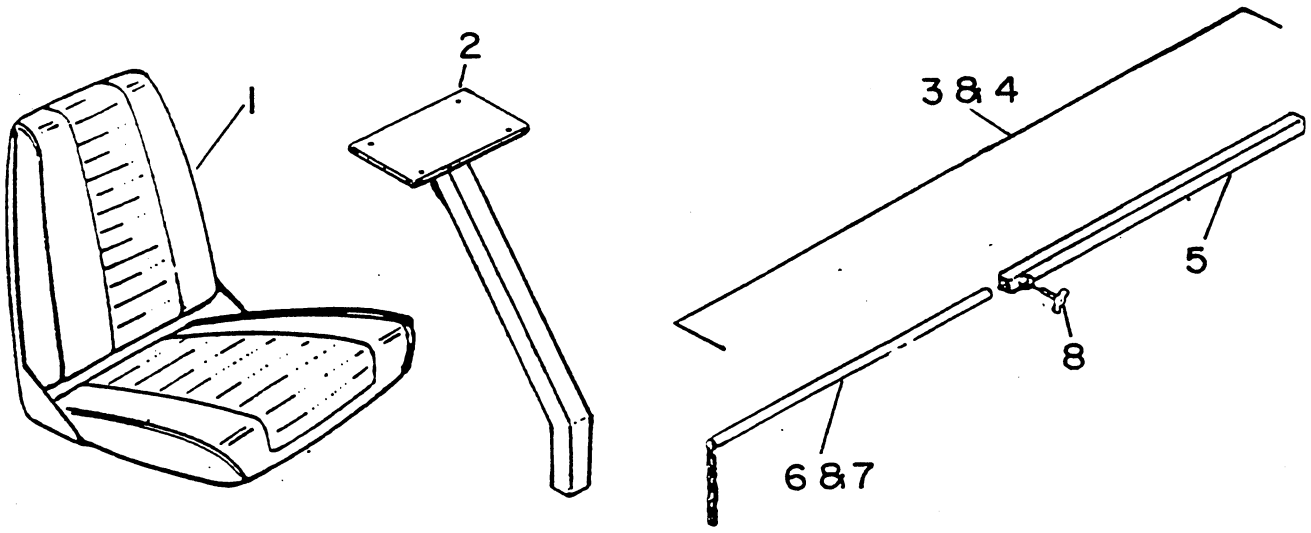




VIEW IN DIRECTION OF ARROW 'B'

DEUTZ ENGINE COMPONENTS - 700

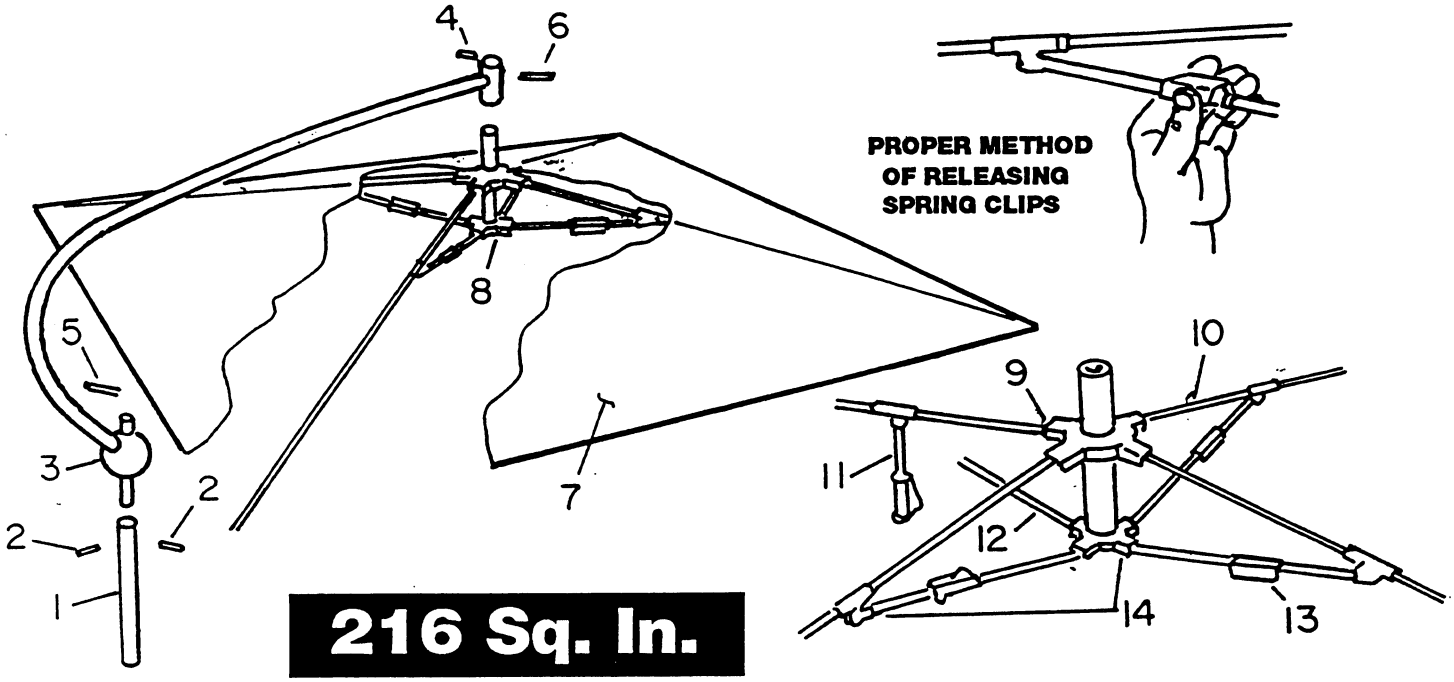
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	950001	Cooler, Engine Oil	1
2	950002	Muffler, Engine	1
3	950003	Shield, Muffler	1
4	950004	Starter, Engine	1
5	950005	Solenoid	1
6	950006	Stick, Dip	1
7	950010	Filter, Fuel	1
8	950020	Filter, Oil	1
9	950007	Cap, Oil Fill	1
10	950008	Belt	1
11	950009	Alternator	1
12	950021	Horn, Air Breather	2
		NOTE: ANY OTHER ENGINE COMPONENTS CALL IN PART NUMBER OUT OF ENGINE PARTS BOOK THAT CAME WITH MACHINE.	


1
2
3&4
5
6&7
8

SEAT, GUIDE BAR

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	360010	Seat	1
2	920022	Stand, Seat	1
3	920033	Assembly, Guide Bar (8')	1
4	920035	Assembly, Guide Bar (9')	1
5	920051	Housing, Guide Bar	1
6	920062	Bar, Guide (8')	1
7	920065	Bar, Guide (9')	1
8	920070	Bolt, Wing	1

UMBRELLA



ASSEMBLY INSTRUCTIONS

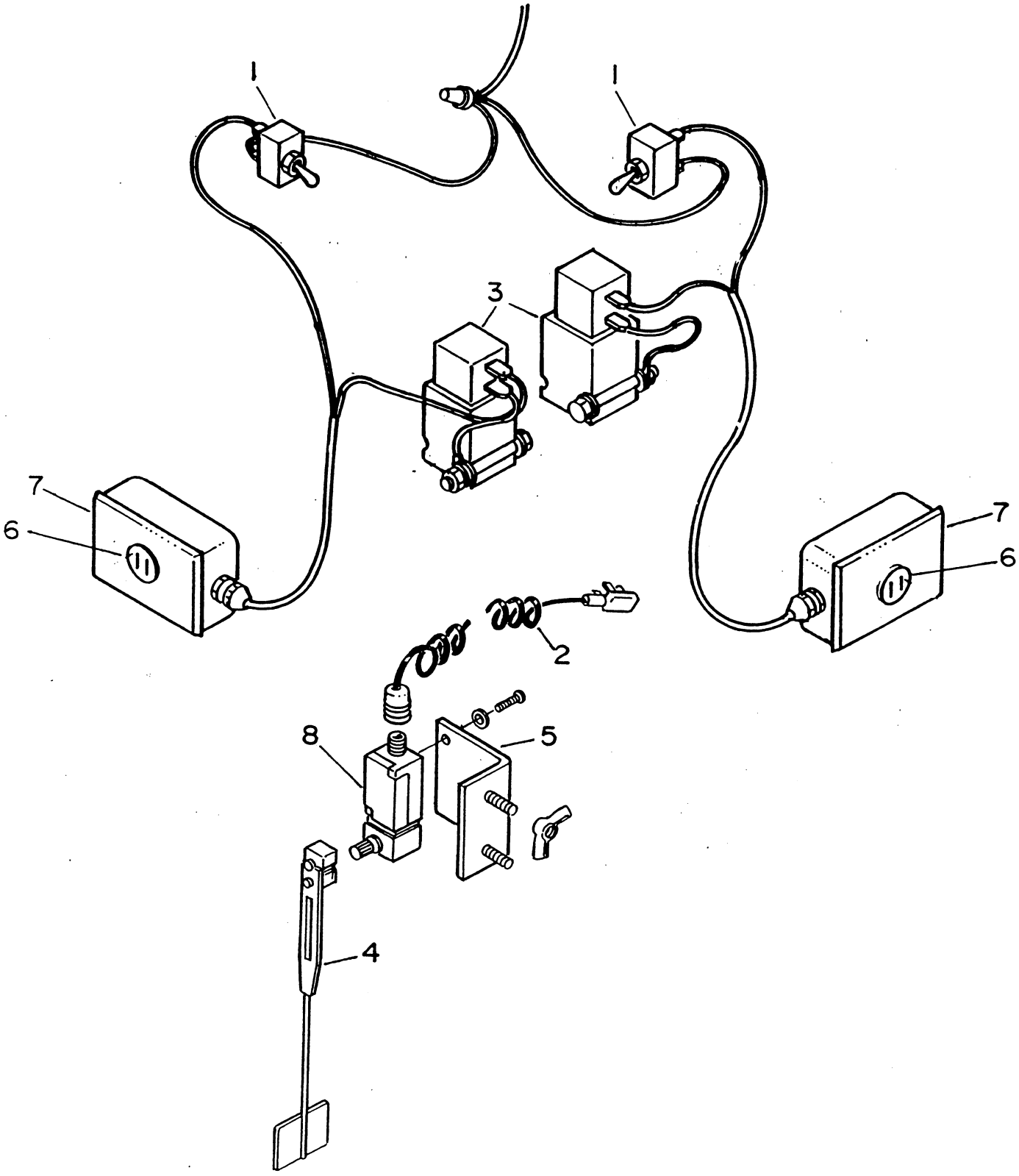
1. Install Umbrella Mounting bracket (See bracket mounting instructions furnished with each bracket.
2. Insert ball stud on (#3) curved shaft into (#1) umbrella support shaft, align holes, and drive (#2) 3/16" x 1" spiral spring pins into position. Install (#5) locking handle.
3. Place (#7) canvas cover over (#8) umbrella frame assembly and hook corners to bows — tie each bow securely with tie straps.
4. Insert (#8) umbrella frame assembly with canvas in place into tube on (#3) curved shaft and insert (#6) bolt. Tighten snugly with nut (#4).
5. Install complete umbrella into clamp on umbrella mounting bracket.

Each bow may be raised individually until locked into open position. Each bow has two positions in which it can be locked open. This is to allow for arc stretch in canvas.

* Part No. varies with color.

UMBRELLA

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	920235	Umbrella	1


1
1
3
7
6
7
6
2
8
5
4

SAFETY DECALS - 700

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	941000-01	Decal Kit, (Complete) (Consists of all decals listed within) (700)	1
	941000-05	Decal Kit, (Consists of all decals; except Item #11) (700)	1
1	940001-1	Located on upper R/H of Hopper closest to fuel neck	1
2	940001-2	Located on fuel tank as shown	1
3	940001-3	Located under item #20 and 1/4" in from edge of Hopper both sides	2
4	940001-4	Located on Hydraulic Reservoir 1/2" down from edge and centered to filler neck	1
5	940001-8	Located on wide Flange both ends, as shown	2
6	940001-7	Located on hydraulic tank ahead of main valve bank	1
7	940001-12	Located just ahead decal item 6	1
8	940001-9	Located as shown both sides	2
9	940001-6	Located just above Screed both sides	
10	940001-5	Located on Safety Lip Prop Under Hopper	1
11	940005-15	Located 1 1/4" up from bottom edge of sidewing and 1 1/2" in from front edge (Specify right or left)	1 ea.
12	940003-7	Located on muffler shield as shown	1
13	940004-24	Located on T Handle	
14	941000-21	Located on Throttle Support Bracket by throttle handle	1
15	940002-1	Located on front cross bar as shown	1
16	940003-3	Located on tilt guide as shown, both sides	2
17	940002-4	Located on flat surface just ahead of Flight Screw	2
18	940002-5	Located on sidewings and muffler heat shield	3
19	940002-2	Located under hopper on Lip Cylinder	2
20	940002-9	Located on sidewings (both sides) as shown	2
21	940001-14	Located inside of shifting lever	1
22	940004-1	Located on Jointer Assembly	2
23	940004-20	Located ahead of main valve bank	1
24	940004-21	Located ahead of right hand control levers	1
25	940002-7	Located on 2-speed gear box or torque hub	2
26	940002-6	Located on support of vibrator valve	1
27	940004-22	Located on flat vertical surface ahead of shifting lever	1
28	940002-12	Located on instrument box as shown	1