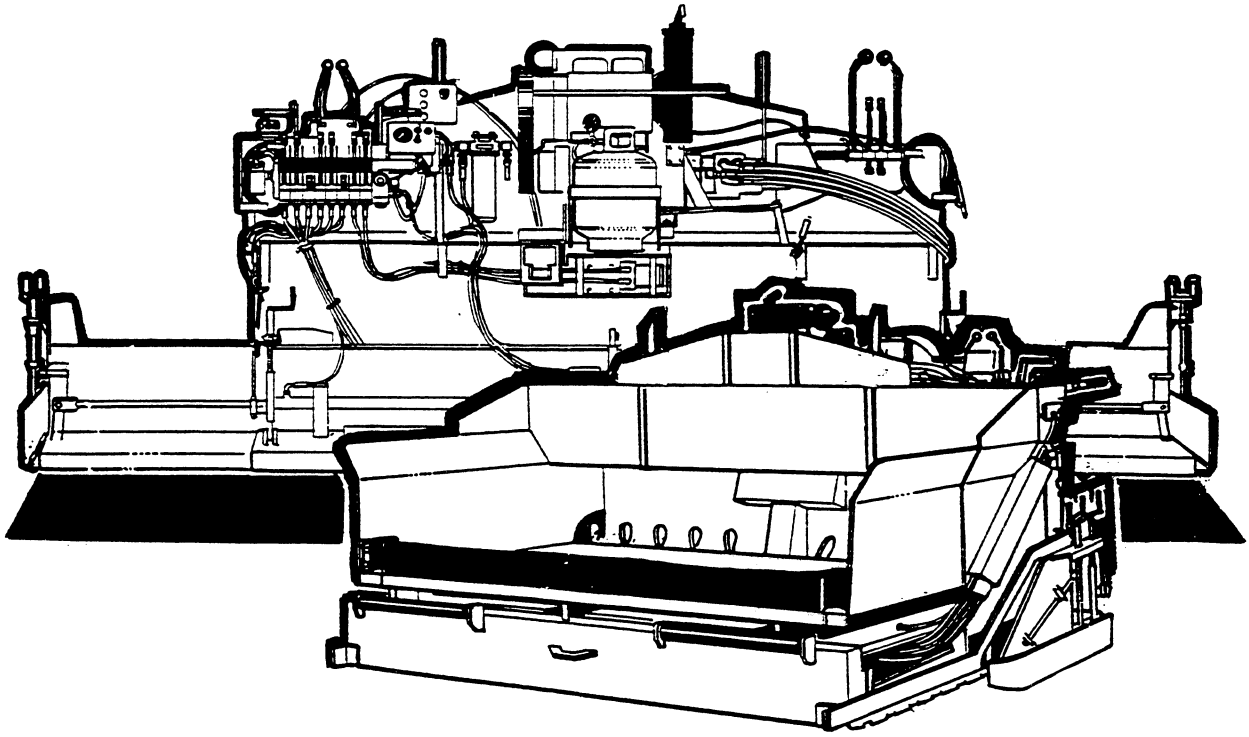
LeeBoy

OPERATORS MAINTENANCE AND PARTS MANUAL



MODEL 1000B PAVER

(8 AND 9 FT.)

MANUAL NO. 1000295

WITH SUPPLEMENT MANUAL

1000C MODEL PAVER

INCLUDING UPDATE OF 1000B AND 1000C

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 _____

SAFETY NOTICE

All danger points about the 1000B 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

MANUAL INFORMATION 1

IMPORTANT SAFETY INSTRUCTIONS 2

SAFETY PRECAUTIONS 3

OPERATOR'S CONTROLS AND DESCRIPTION ..... 4 & 5

OVERVIEW AND SPECIFICATIONS 6

SAFETY PRECAUTIONS AND GENERAL INFORMATION 7
- PRE-START INSPECTION 7
- OPERATING SAFETY 7
- STOPPING SAFETY 7
- MAINTENANCE SAFETY 7

STARTING THE ENGINE 8
- PRELIMINARY 8
- DIESEL ENGINE/START-UP (QUADCO) 8
- DIESEL ENGINE/START-UP (LEE-BOY) 8

STOPPING THE ENGINE 9
- DIESEL ENGINE 9

PAVER DRIVING INSTRUCTIONS ..... 9 & 10

TRUCK HITCH ATTACHMENT (OPTIONAL) 10

PAVING PREPARATION INSTRUCTIONS (LIGHTING BURNERS) ..... 11 & 12
LIGHTING BURNERS ..... 11 & 12
OPERATION OF HYDRAULIC CUTOFFS 12
AUTOMATIC AUGER 12
ELECTRIC SPRAYDOWN 13
OPERATION OF ELECTRIC FLIGHT SCREW 14
USE OF AUGER EXTENSIONS 14

LOADING AND UNLOADING 14
- UNLOADING 14
- LOADING 15
- TIE DOWN PROCEDURE 15

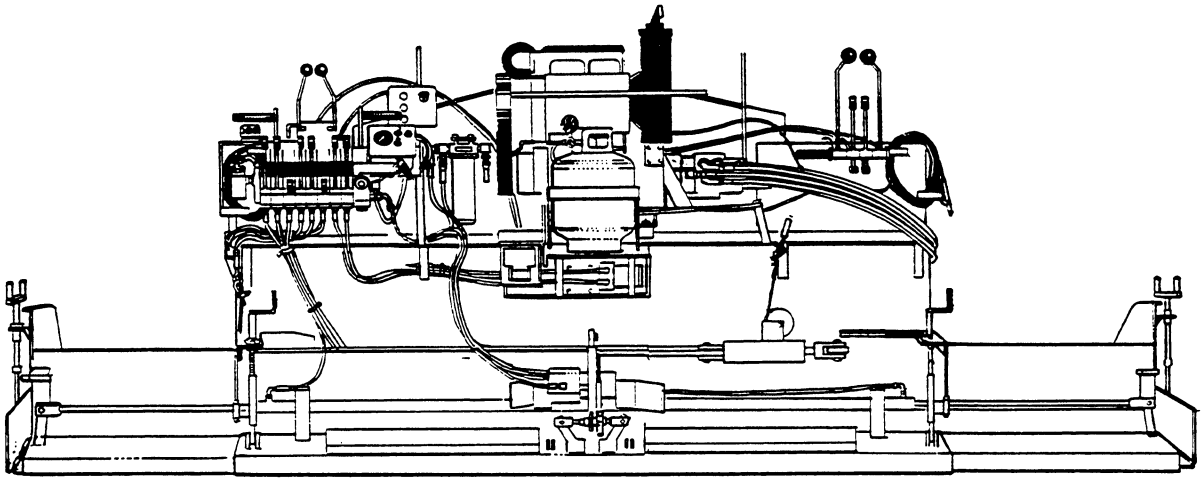
*** MUST HAVE MODEL & SERIAL # TO PLACE PARTS ORDER**

INDEX
(continued)

STARTING TO PAVE 16
ADJUSTING CROWN CONTROL ..... 18 & 19

ROUTINE MAINTENANCE 20
10 - HOUR OR DAILY ROUTINE MAINTENANCE 20
50 - HOUR OR WEEKLY ROUTINE MAINTENANCE 21
100 - HOUR OR MONTHLY ROUTINE MAINTENANCE ..... 21 & 22
250 - HOUR OR QUARTERLY ROUTINE MAINTENANCE 22
500 - HOUR OR SEMI-ANNUAL ROUTINE MAINTENANCE 22
1000 - HOUR OR ANNUAL ROUTINE MAINTENANCE 22
SCREED ADJUSTMENT 22
TRACK ADJUSTMENT (SPRING LOADED) 23
RUBBER TIRE ADJUSTMENT (SPRING LOADED) 23
LUBRICATION CHART 24
TROUBLE SHOOTING GUIDE ..... 25 & 26
8' AND 9' 1000B WIRING DIAGRAM 27
DEUTZ 1011 ENGINE WIRING DIAGRAM 28
ELECTRIC FLIGHT SCREW WIRING DIAGRAM 29
WIRING DIAGRAM, AUTOMATIC AUGERS 30
HYDRAULIC DIAGRAM 1000B/8 FT. AND 9 FT. 31
SIDEWING CYLINDER (HYDRAULIC DIAGRAM) 8 FT. 1000B 32
PARTS LIST OF ILLUSTRATIONS 33

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



REAR VIEW

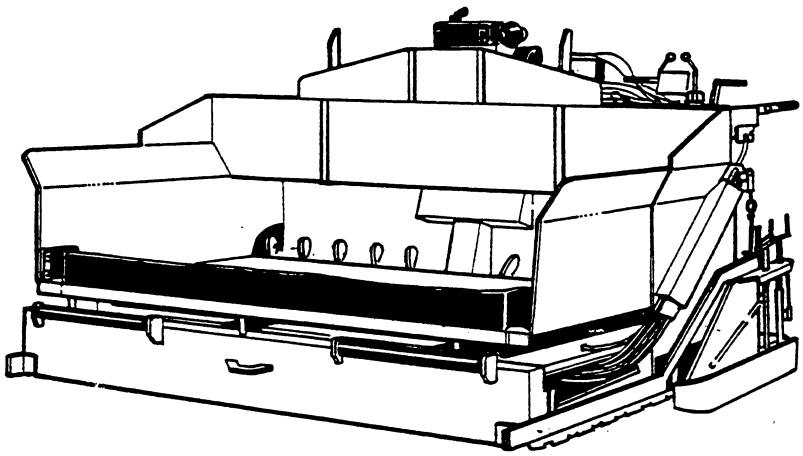
MANUAL INFORMATION

MODEL 1000 B 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 !

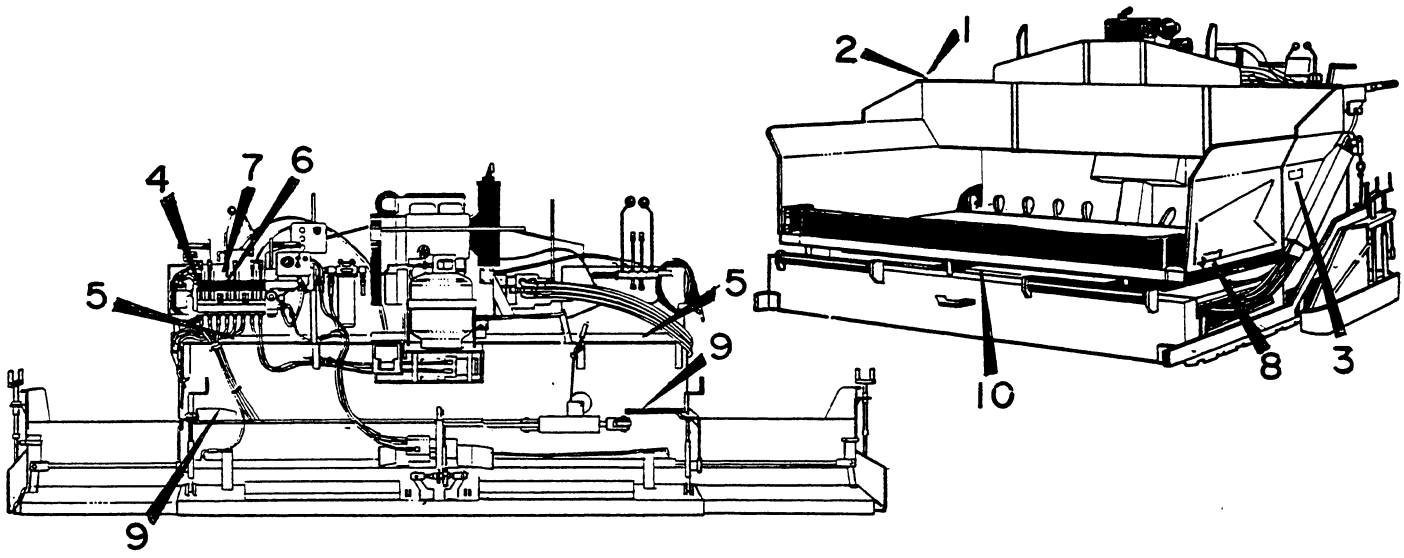
CAUTION safety notes are **ALSO** very important. They point out to you where your mistakes could cause **PHYSICAL HARM** to you or others, or damage to the machine.

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.



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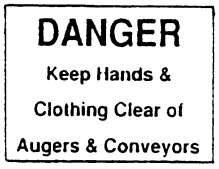

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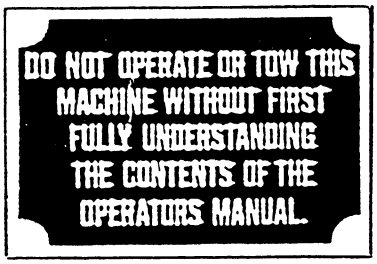

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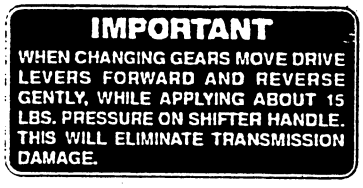

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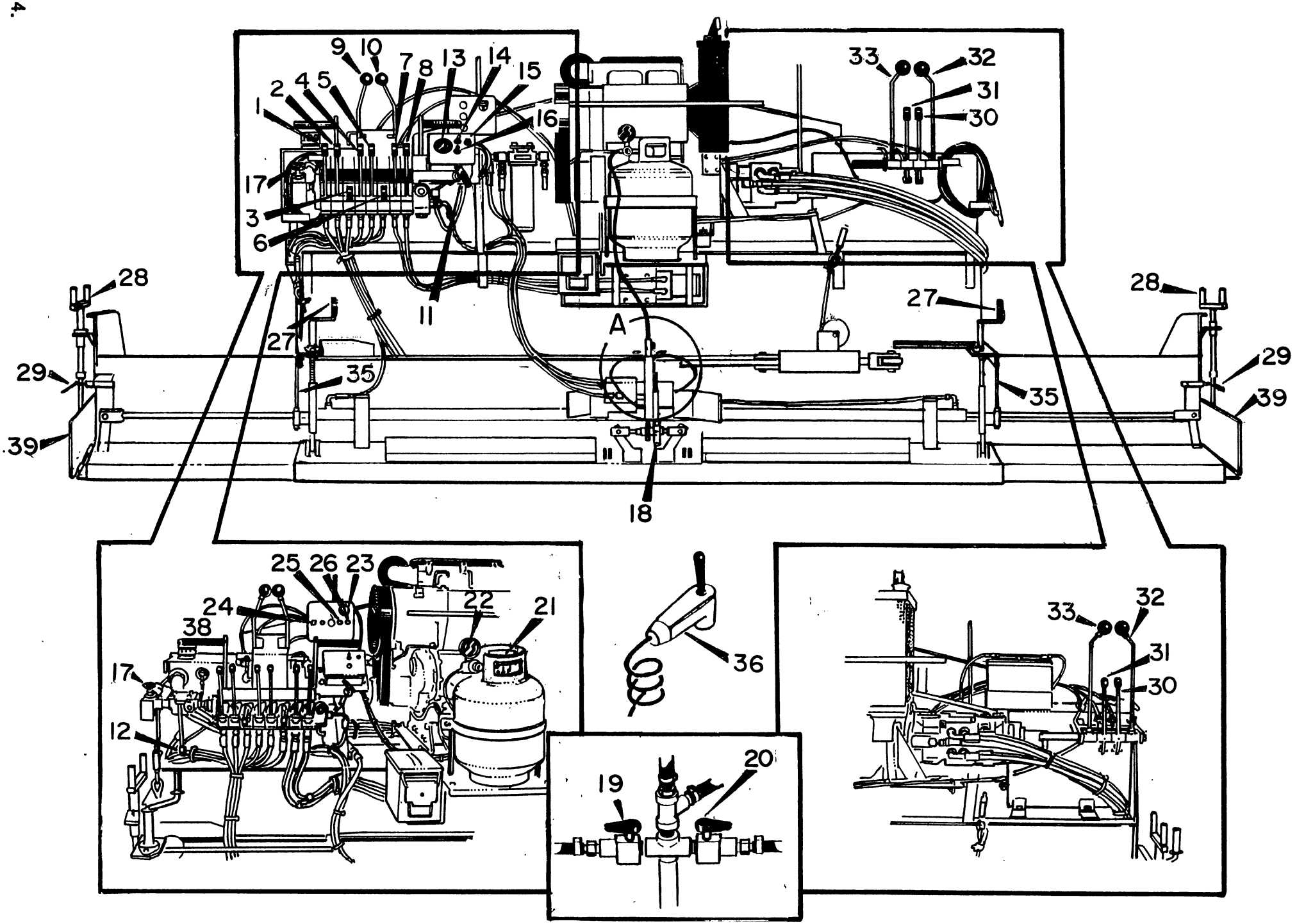
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OPERATING CONTROLS AND DESCRIPTION

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. Side Wing Hopper	For dumping material onto hopper
13. Hour Meter	Indicates Hours on Machine
14. High and Low Gear, Toggle	Selects High and Low Gear (high travel, low paving)
15. Warning Light	Low & High Gear Position
16. Spray Down	Used for Cleaning
17. Vibrator	Helps Compact Asphalt
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

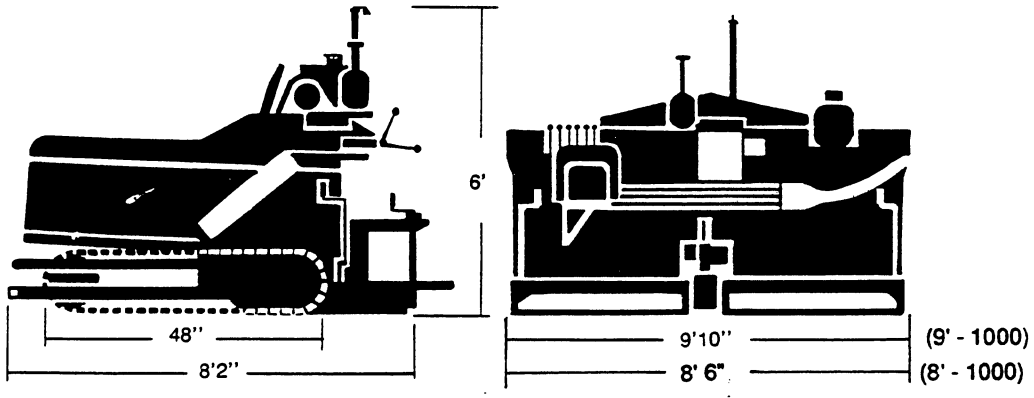
CONTROLS	DESCRIPTION
23. Ignition	To Start Engine
24. Oil Warning Light	Indicates Low Oil Level
25. Air Filter Warning Light	Indicates Dirty Filter
26. Battery Discharge Light	Indicates Low or No Charge
27. Thickness Control Lever	Fine Control of Material Depth
28. End Gate Control Handle	Sets End Gate to Desired Depth
29. Tilt Control Handle (joint matching shoe)	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. High/Low Speed Range and Adjust Feed Chain Light	Light Is On And Does Not Flash, Paver Is In High Range
35. Screed Level Indicator	Indicates Position of Screed
36. Screed Depth Remote Switch Thickness	Raises and Lowers Screed Varies Asphalt
37. Guide Bar (Not Shown)	Alignment of Paver to Paving Area
38. Speed Lock Control	Sets Drive Levers So Paver Maintains Even Speed and True Direction
39. Joint Matcher	Helps Even Asphalt Joint
40. Shifter (transmission type not shown)	Selects High and Low Gear (high travel, low paving)

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: Diesel 40 HP @ 3000 RPM with displacement of 104.7 cu. in.

FUEL RESERVOIR: 13 U.S. gallons

EMPTY WEIGHT: 9000 lbs.

OVERALL LENGTH: 8 feet 2 inches

OVERHALL WIDTH: 9 feet 10 inches (9' - 1000)
8 feet 6 inches (8' - 1000)

OVERALL HEIGHT: 6 feet

HOPPER: 6 ton capacity, self-cleaning gravity feed, hydraulically raised

***STANDARD VARIABLE PAVING WIDTHS:** 0 to 2 feet, 4½ feet to 6½ 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 also 8 feet to 13 feet.

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

SCREED: Full free floating 17 inch wide with propane heated screed equipped with (2) 54,000 BTU burners and hydraulic vibrator with frequency of 2200 VPM

SCREED EXTENSIONS: Two 24 inch hydraulically operated heated and vibrated extensions with left and right hand joint matcher shoes.

SCREED CROWN INVERT: 2 inch crown/invert adjustment

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

SPECIFICATIONS (Cont'd.)

PUSH ROLLERS: Two rollers with sealed bearings

MATERIAL AUGERS: Two independent heavy duty hydraulically operated 9 inch dia. augers X ⅜ inch thick A36 steel

HYDRAULIC RESERVIOR: 45 U.S. gallons

HYDRAULIC SYSTEM: Variable volume hydraulic pump for each drive and 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 140 FPM and taxing in high gear of 0 to 240 FPM.

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

WASHDOWN SYSTEM: Electric pump with (2) 15 foot hoses and spray nozzles.

OPERATOR PLATFORM: Full machine width operator platform with left hand seat

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

OPTIONS:

- * - Right 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 13 feet paving width)
- Automatic Augers
- Roll up curb attachment
- Electric screw controls
- High Deck
- Automatic Ignitors
- Hydraulic side wings for 8 feet
- Automatic grade and slope

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

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 for long periods of time. NEVER spray fuel oil on or near screed while it is being heated.

AVOID steep hills if possible

DO NOT shift transmissions on steep 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.

AVOID leaving 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

AVOID working 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.

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

! DANGER !

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

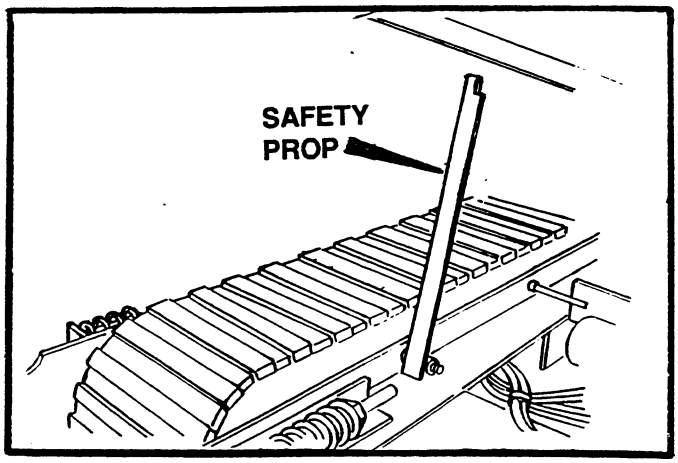


FIGURE 1

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 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. Squeeze handles together on safety switches so machine will crank. (Quadco Only)

E. Refer to engine operators manual for instructions when starting engine for first time. 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 ENGINE/START-UP
(Quadco Control Drive Lever, See Figure 2)

1. Open throttle full.
2. Insert key and turn clockwise to start position.
3. Position Quadco drive levels to neutral and squeeze levers together until engaging starter.
4. When engine starts and is running smooth, throttle back to idle, allow to warm up.
5. After engine starts, warm up several minutes before moving paver. This warm up will allow hydraulic oil to warm, providing for more efficient operation. In cold weather let hydraulic oil warm to 50° or 60° before moving.

! WARNING !

COLD OIL CAN CAUSE BACK PRESSURE ON PUMP, DAMAGING SHAFT SEAL.

DIESEL ENGINE/START-UP
(Lee-Boy Drive Levers, See Figure 3)

1. Open throttle full.
2. Insert key and turn clockwise to start position.
3. Position Lee-Boy drive levers to neutral.
4. When engine starts and is running smooth, throttle back to idle, allow to warm up.
5. After engine start, warm up for several minutes before moving paver. This warm up will allow hydraulic oil to warm, providing for more efficient operation. In cold weather let hydraulic oil warm to 50° or 60° before moving.

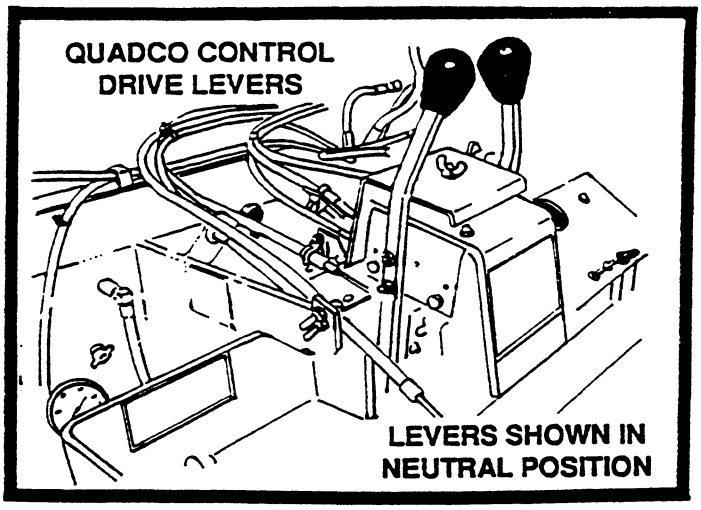


FIGURE 2

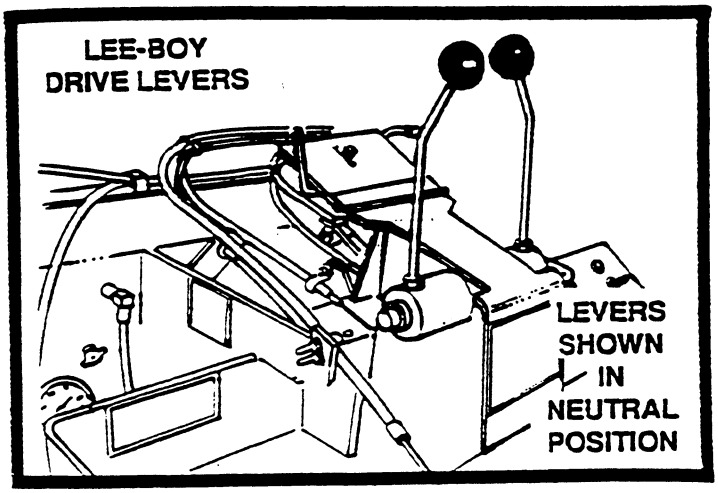


FIGURE 3

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

STOPPING THE ENGINE

DIESEL ENGINE

1. Throttle engine down.
2. Turn ignition key counter-clockwise (CCW) to the "off" Position and remove.
3. If for any reason the engine does not shut down when key is turned to "off". Take pin out of clevis on throttle, back of engine and push throttle control off.

! 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.

PAVER DRIVING INSTRUCTIONS

GENERAL

The forward/reverse plus turning will require exact movement. The steering levers along with the inter-connected hydraulic components make possible the positive control necessary. The following procedures plus illustrations in figures 4.5 and 6 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, push the steering levers together from the neutral position forward, likewise to drive to the rear, pull the steering levers toward the rear from the neutral position. Refer to figures 4 & 5.

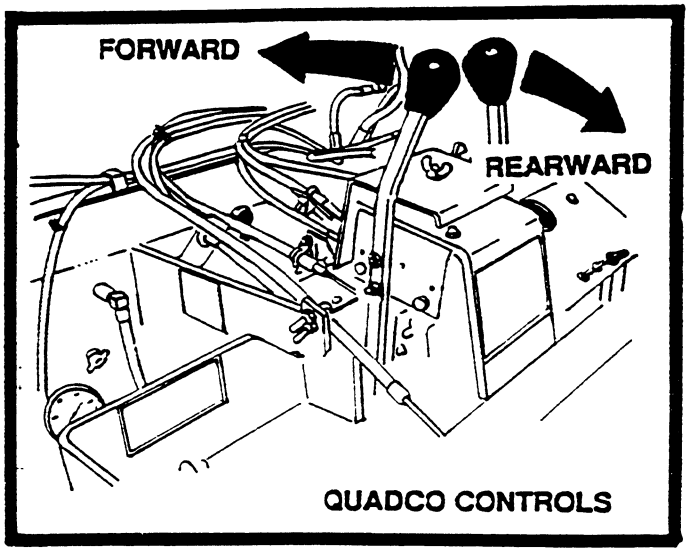


FIGURE 4

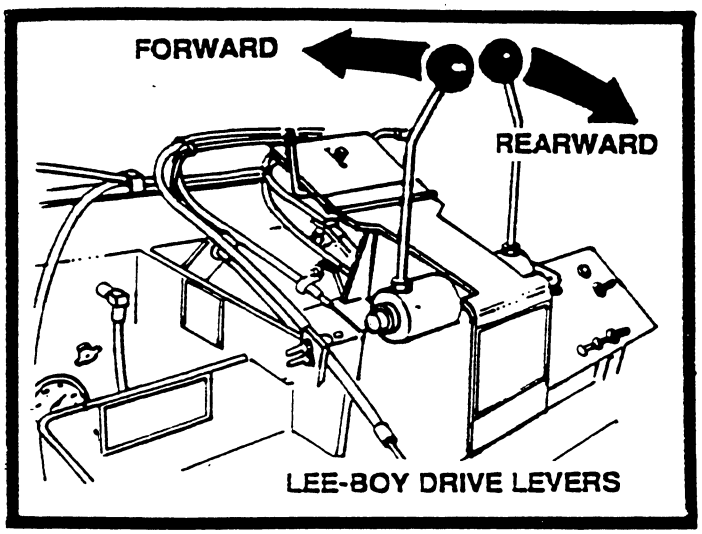


FIGURE 5

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. Refer to figure 6.

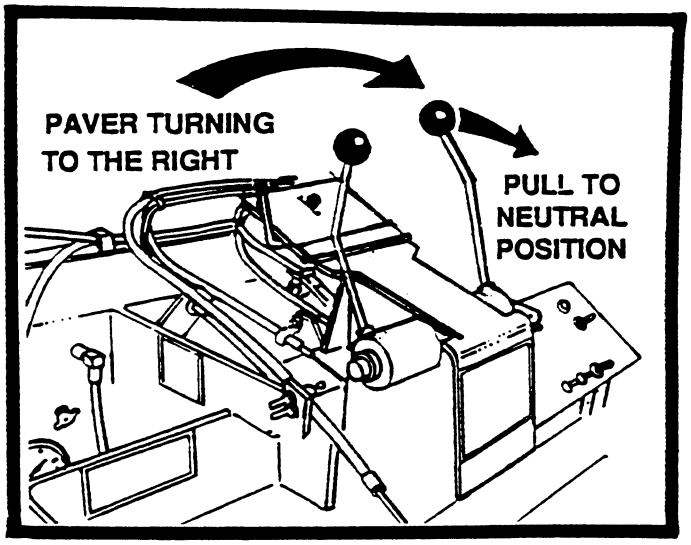


FIGURE 6

4. The traveling speed of the paver can vary greatly, depending on the steering lever position and the variable volume motor switch HI/LO position. The operator may make any combination of speed selection 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. See figure 7.

7. When paving, a constant speed is necessary to lay a even asphalt mat. Use the speed lock control to hold and retain steering levers in a fixed position.

8. To make a counter rotation movement, the steering levers are moved in opposite directions. The rotating speed can vary by the combination of HI/LO switch and steering lever positions.

! CAUTION !

NEVER SHIFT TWO SPEED TRANSMISSION WHILE MOVING OR ON INCLINE.

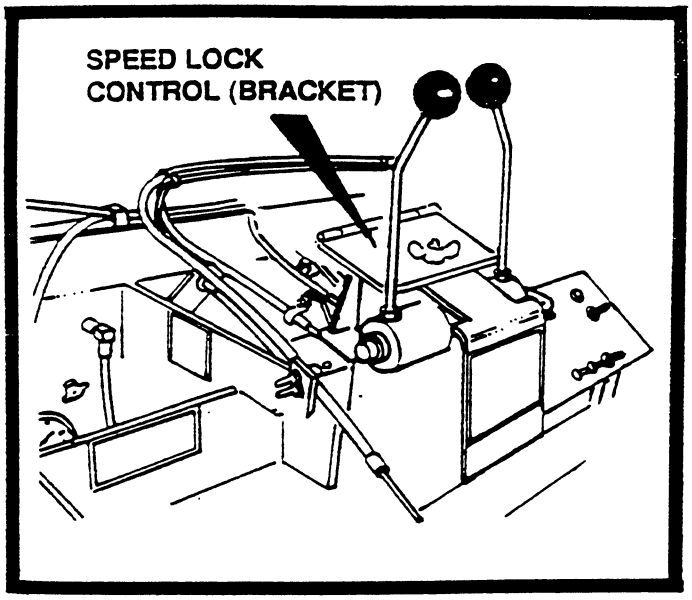


FIGURE 7

TRUCK HITCH ATTACHMENT (OPTIONAL)

GENERAL

The truck hitch is an optional attachment to several "Lee-Boy" pavers. It was designed to improve the asphalt laying process. This is mainly accomplished by keeping the truck driver off his brakes, preventing excessive and uneven braking. See operating instruction below.

1. To connect truck hitch to rear of asphalt truck, extend the arm extensions of the truck hitch by pulling up on arm extension lever. See figure 8.

2. Drive paver slowly toward rear of truck until roll on hitch makes contact with rear tires of truck.

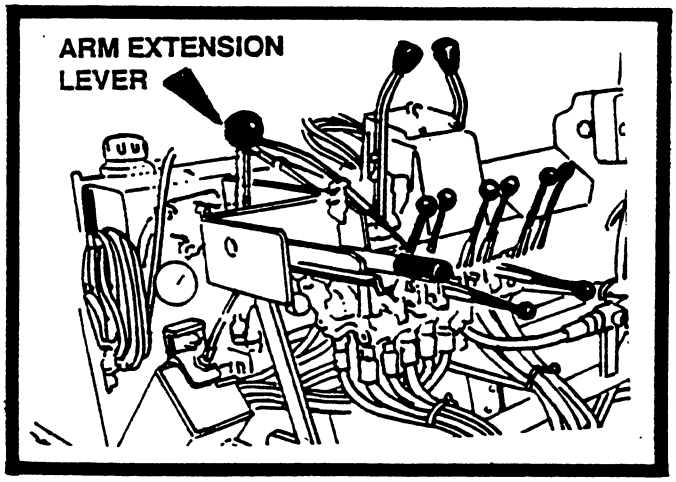


FIGURE 8

3. Retract the arm extensions until both guide rollers are fully locked into truck wheel rims.

4. May be necessary to adjust the roller guides to the inside of the wheel rims, initially. See figure 9.

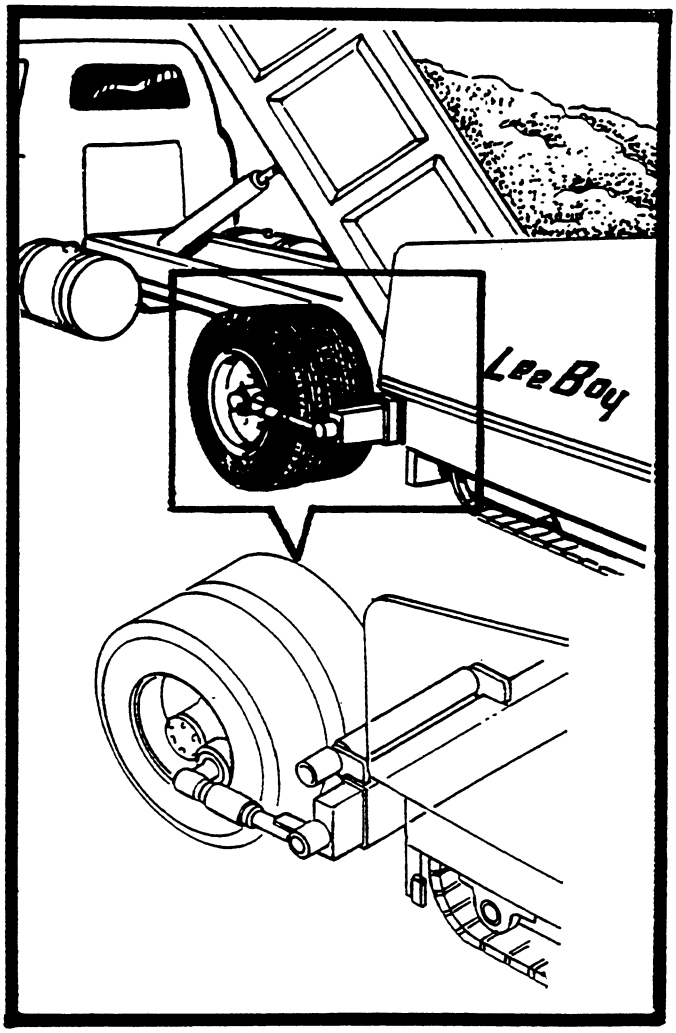


FIGURE 9

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 will 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 10.

2. Adjust pressure valve in or out until gauge reads between 6 and 8 pounds as shown in figure 10.

NOTE: AUTOMATIC IGNITORS

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 10.

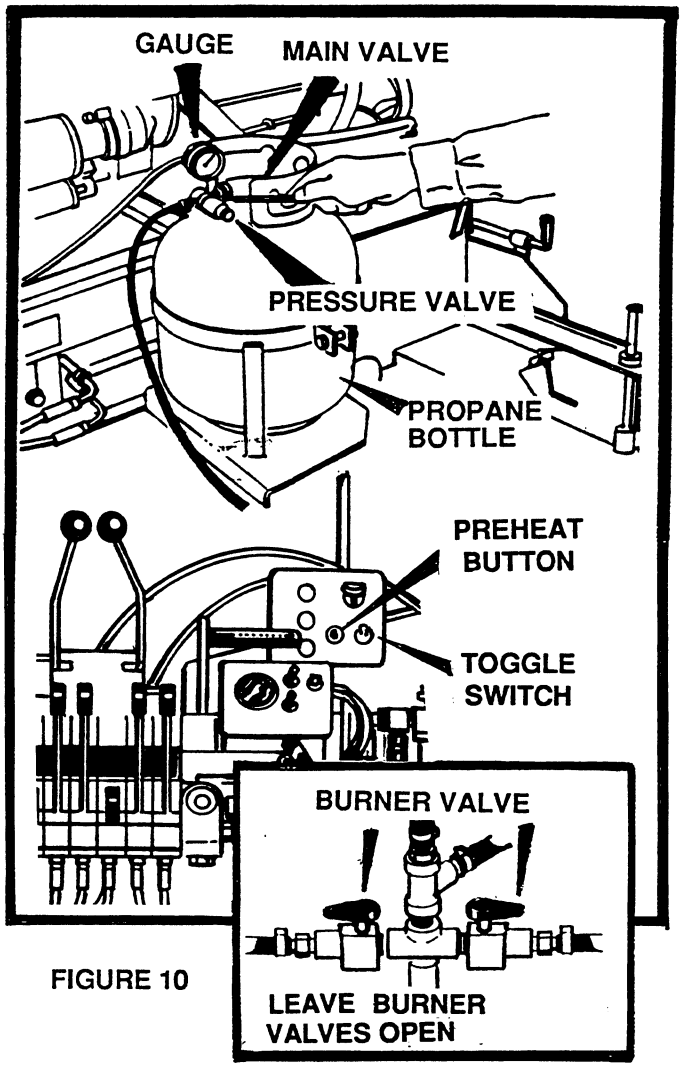


FIGURE 10

3. Light ignitor as you open the ignitor valve. See figure 11.

4. Direct ignitor flame into hole in screed cover and turn burner valve to "on" position. When the burner is lit, follow same procedure for burner on opposite side as shown in figure 12.

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!

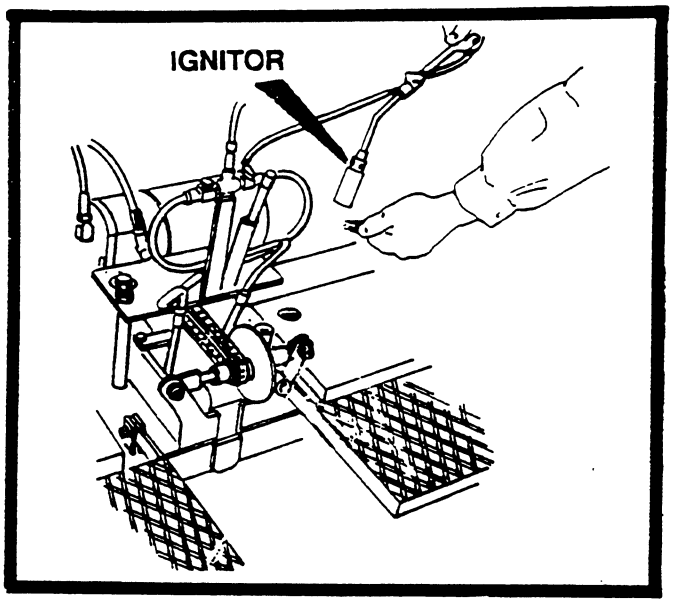


FIGURE 11

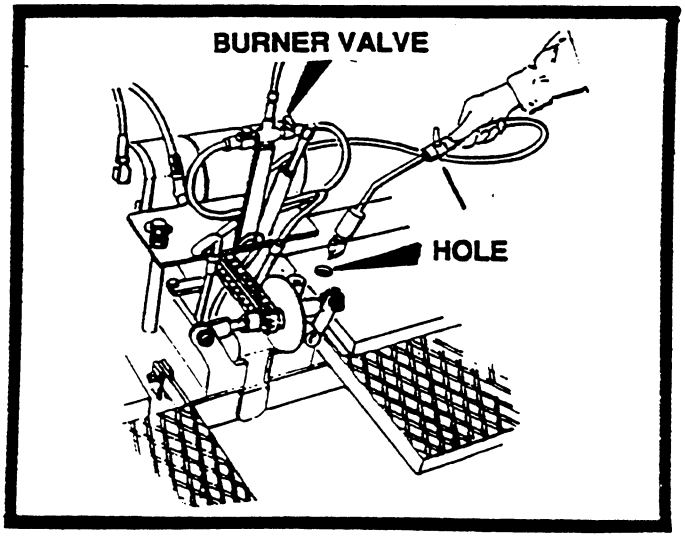


FIGURE 12

! 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.

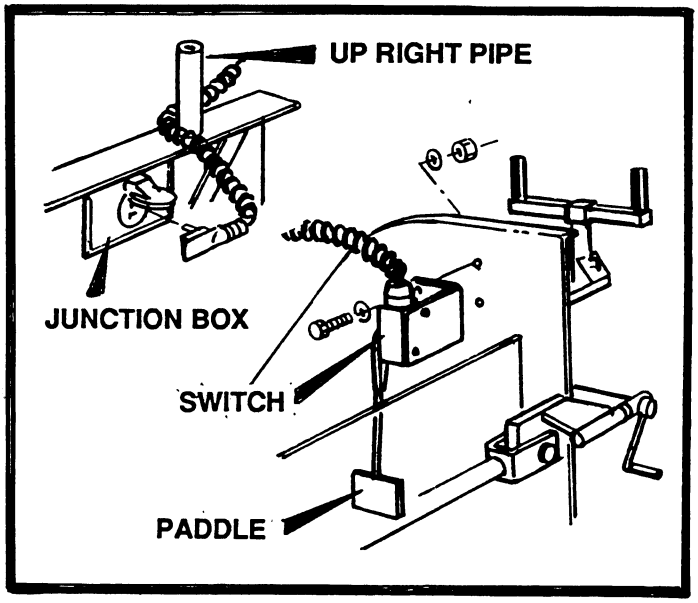


FIGURE 12 A

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 12A.

2. The routing of the electric cord is shown in figure 12A, 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 the area often, the screed extension on top and bottom, augers and hoppers.

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 13.

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

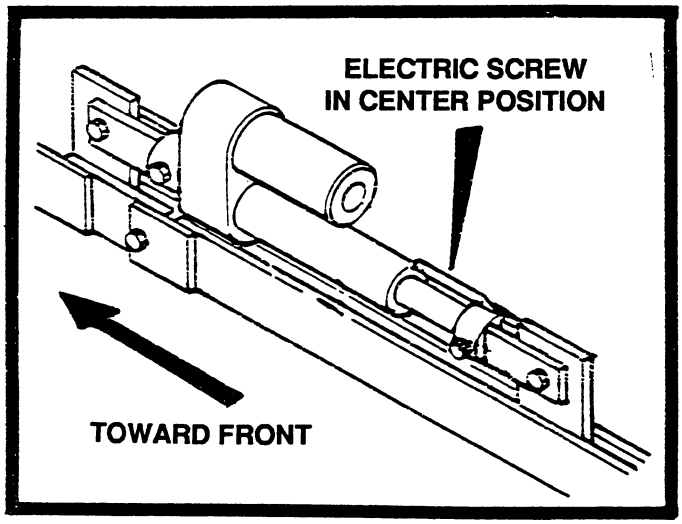


FIGURE 13

USE OF AUGER EXTENSIONS

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 14.

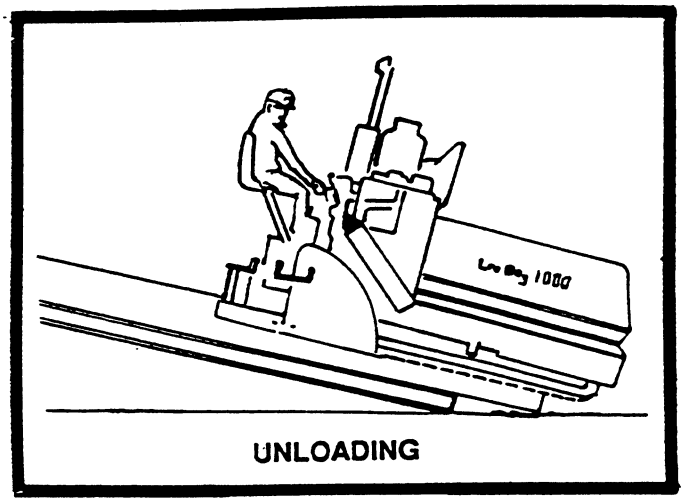


FIGURE 14

! 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 15.

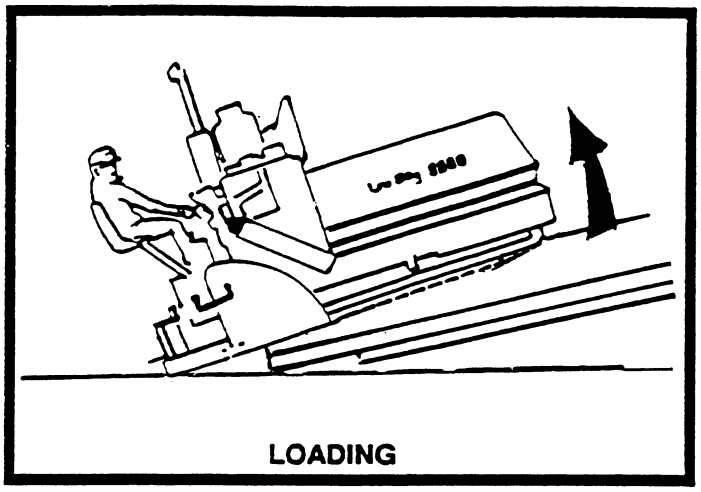
4. When the paver has reached the desired position and is centered on the transport.

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 15

TIE DOWN PROCEDURE

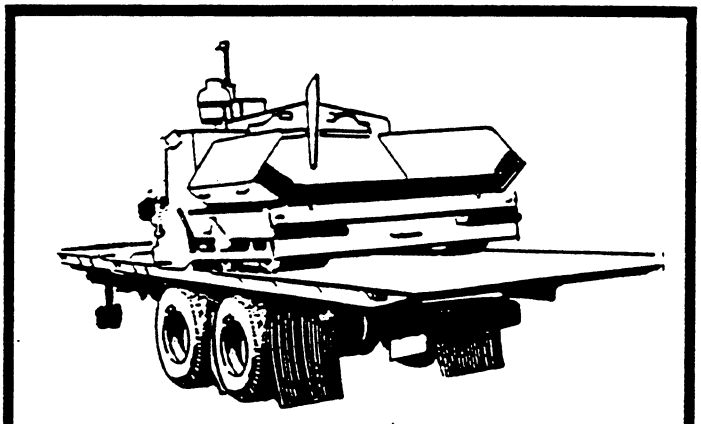
1. Position paver on trailer centered from side to side.

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 16

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 13' or 9' to 13' 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 17.

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.

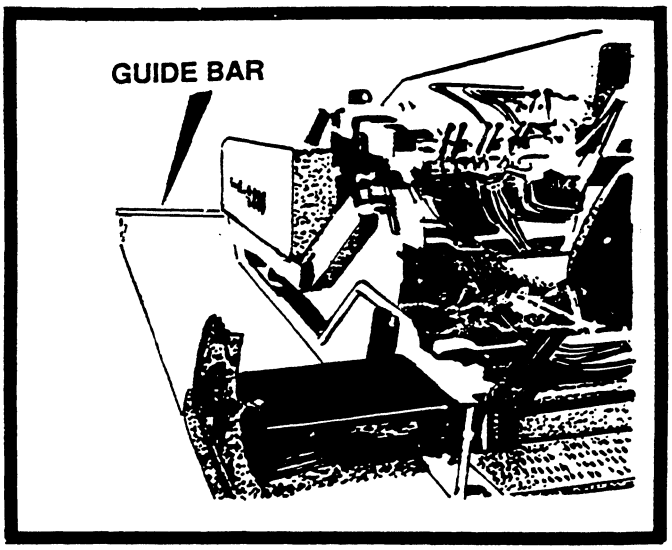


FIGURE 17

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 18.

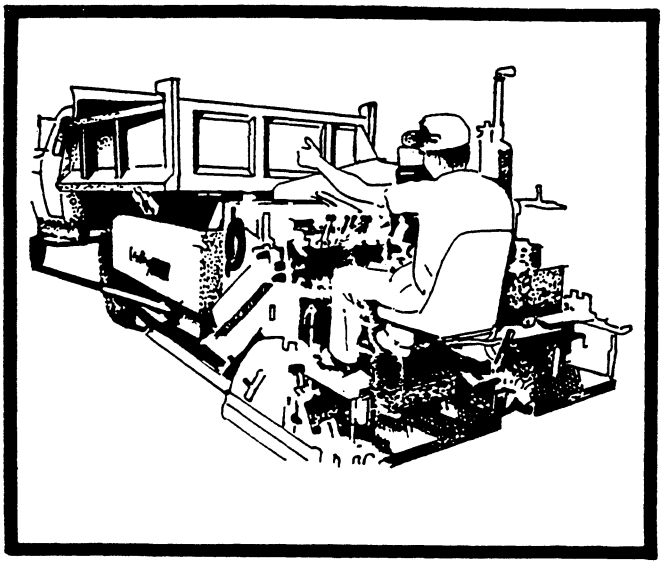


FIGURE 18

E. Always pave in Low range. See Figure 21.

F. If paver is equipped with a truck hitch, refer to Truck Hitch Attachment instruction on page 10.

! DANGER !

BEFORE STARTING FORWARD WITH PAVER MAKE SURE NO ONE IS IN FRONT OF IT. THE LOW DECK PAVER WILL REQUIRE THE OPERATOR TO BE MORE ALERT.

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, auger gates of the screed plate with fuel oil as shown in Figure 19 and 20.

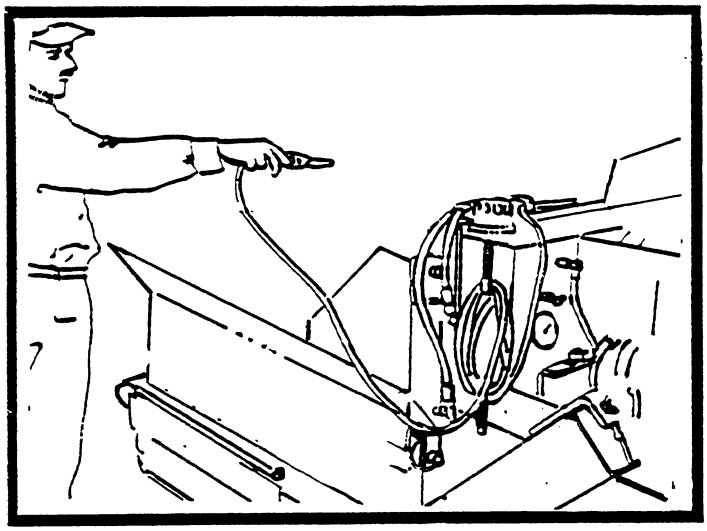


FIGURE 19

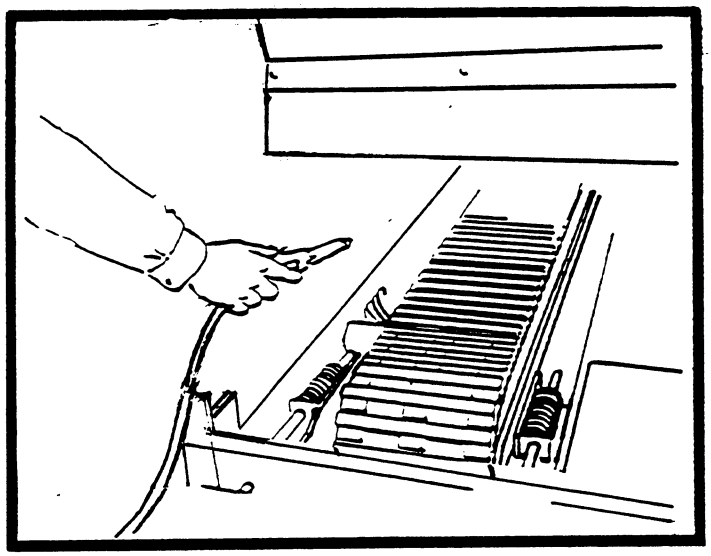


FIGURE 20

2. In figure 21 shows two methods 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. High and Low toggle, is a toggle switch used with the Torque Hub, pull toggle switch down to low and push up to high gear. When the paver is equipped with torque hub, a high gear indicator light will be on steady, indicating that paver is in high gear.

NOTE:
Always stop two speed transmission paver before shifting gears. The torque hub paver may be shifted while moving. In both cases paving should only be done in low gear.

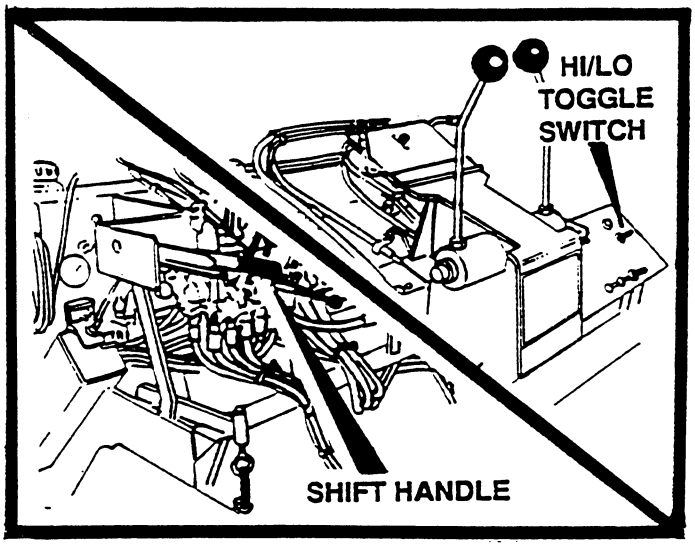


FIGURE 21

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 22. These blocks should be slightly thicker (1/4 inch) than the finished (compacted) mat, to allow for reduction in thickness after rolling.

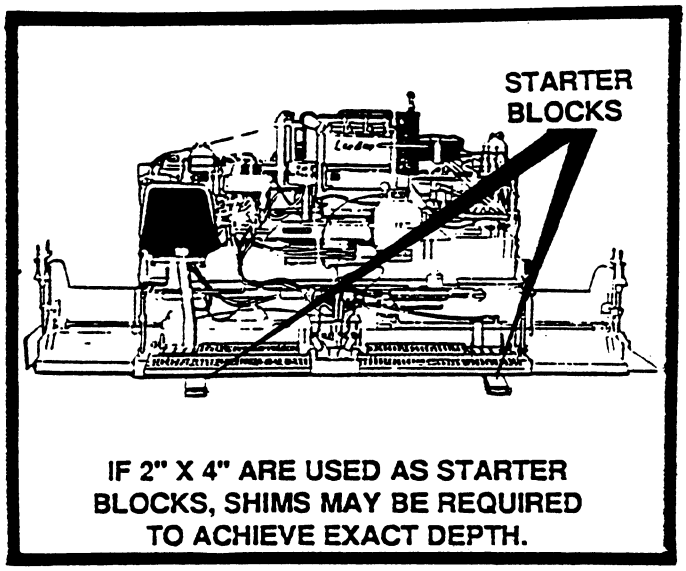


FIGURE 22

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).

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.

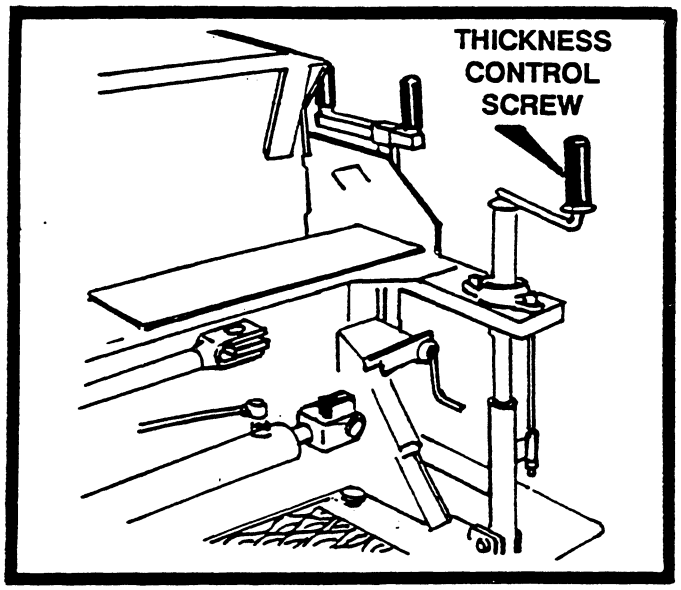


FIGURE 23

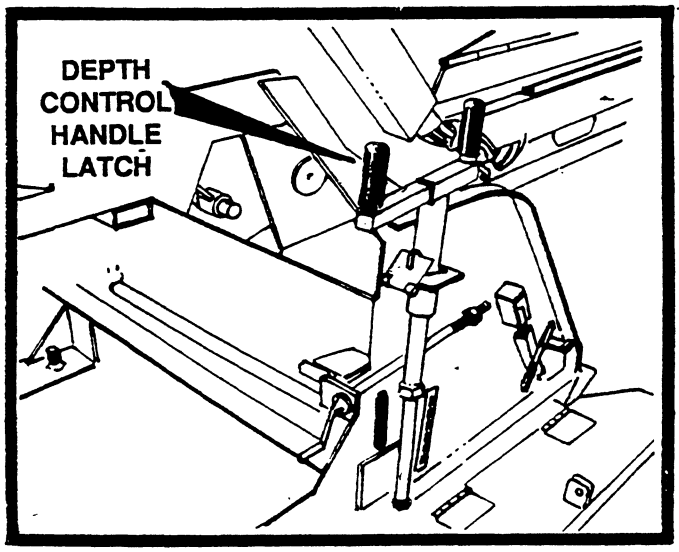


FIGURE 24

NOTE
Always make sure the depth control handles on the end gate are latched after each use to prevent damage when the extensions are retracted (See Figure 24).

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 25.

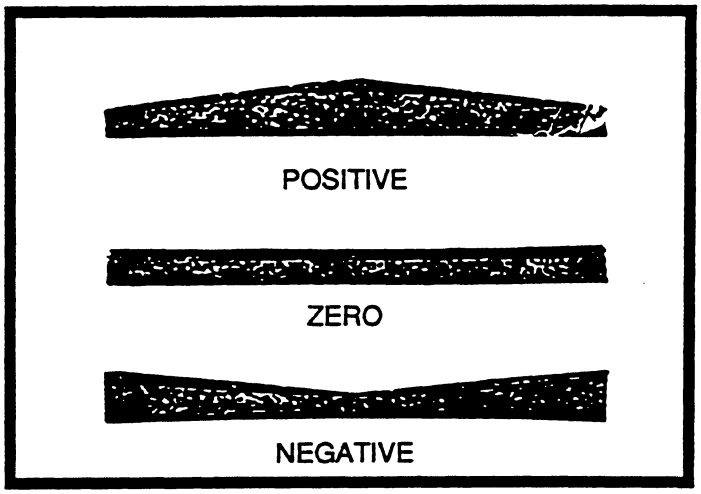


FIGURE 25

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 22 under screed adjustment on how to level screed.

ADJUSTING CROWN CONTROL (Continued)

A. Loosen nut in slot under vibration motor as shown in Figure 26.

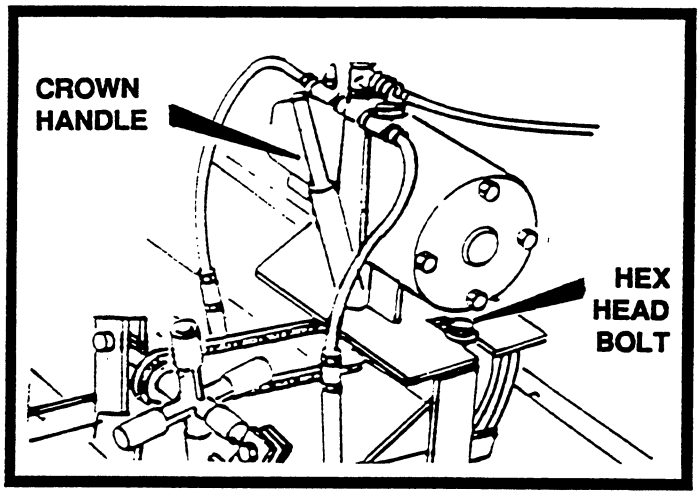


FIGURE 26

B. Remove crown handle from holder and insert it into opening on control as shown in Figure 27.

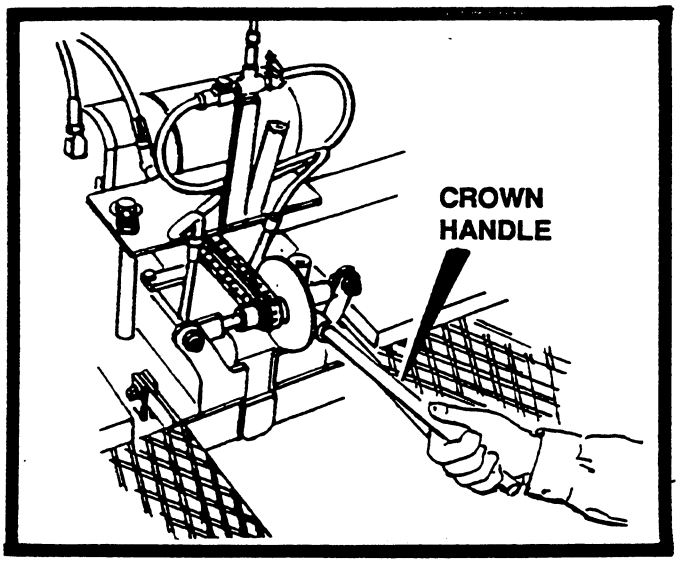


FIGURE 27

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 28. 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.

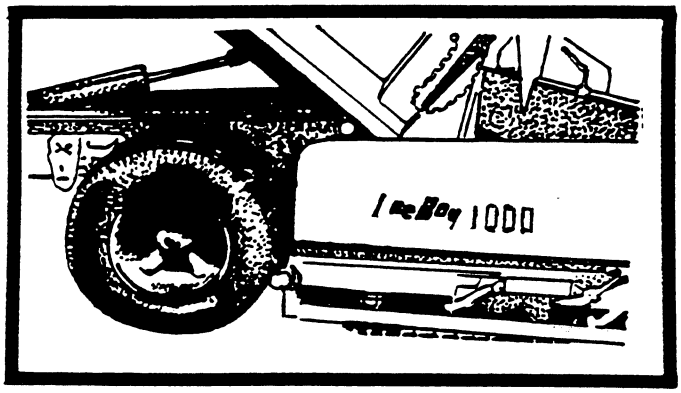


FIGURE 28

! 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.

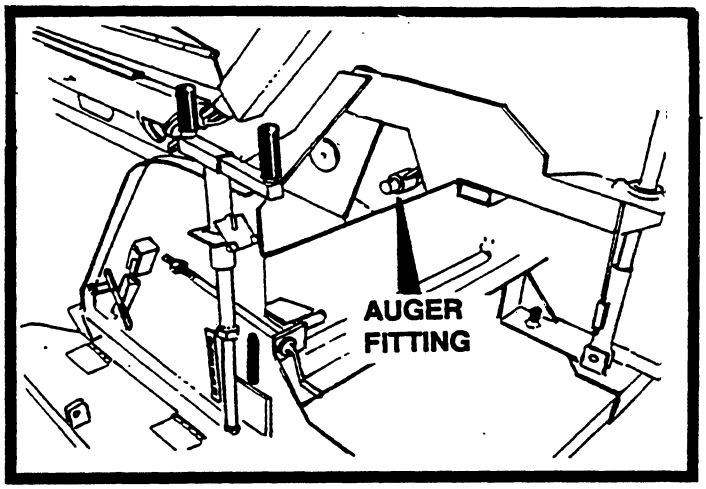


FIGURE 29

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 30.

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.

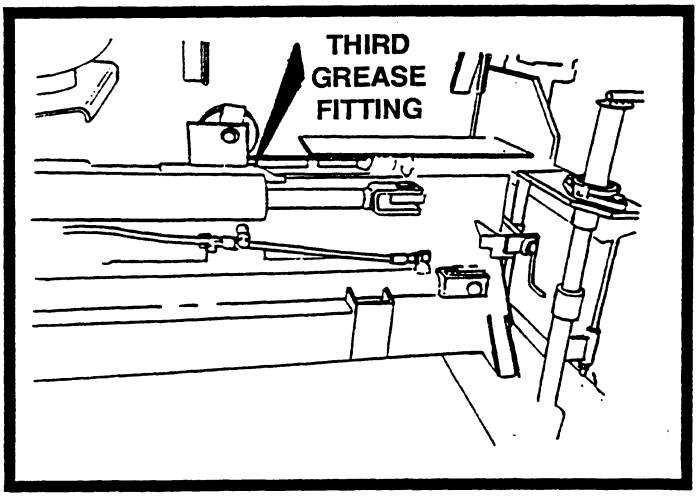


FIGURE 30

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.

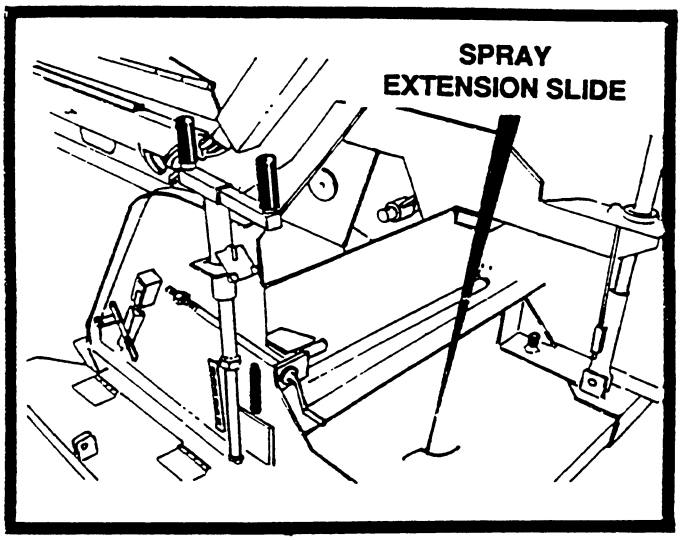


FIGURE 31

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 31.

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 32. (When needed)

Remove asphalt that has accumulated inside screed.

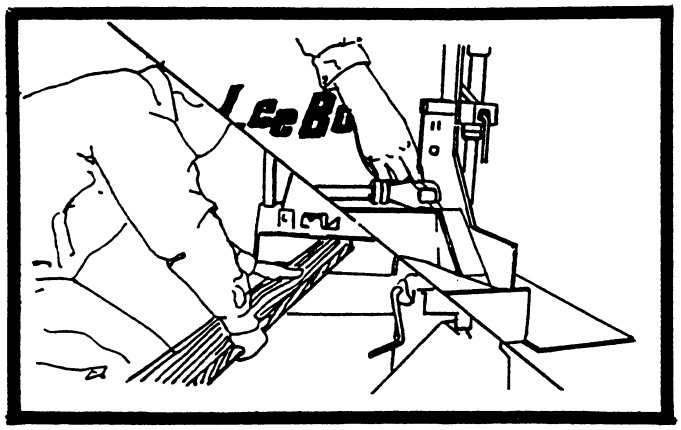


FIGURE 32

100 HOUR OR MONTHLY ROUTINE MAINTENANCE

1. Check oil level in the two transmission gear boxes as shown in Figure 33. If oil is required use 90 wt. gear oil. There is a dipstick provided to check oil level.

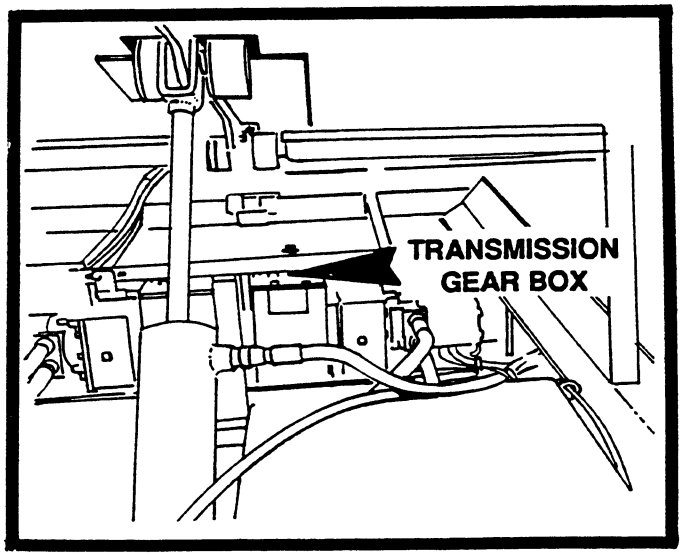


FIGURE 33

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 34.

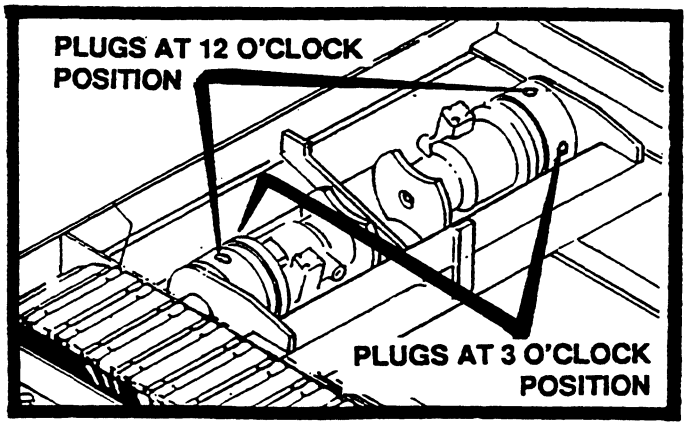


FIGURE 34

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 35 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.

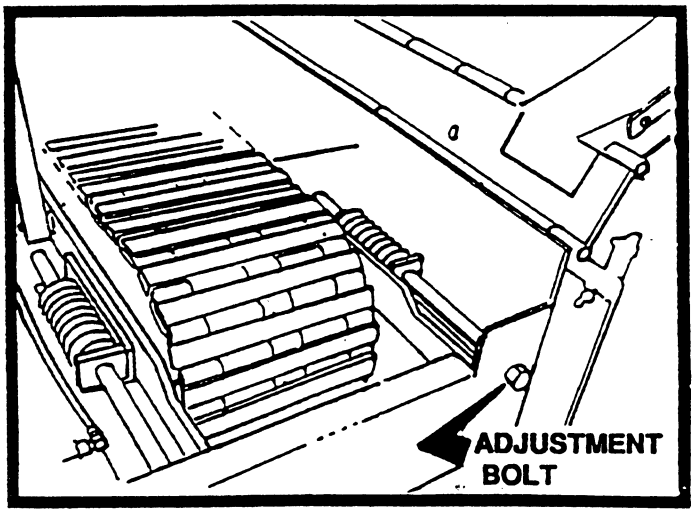
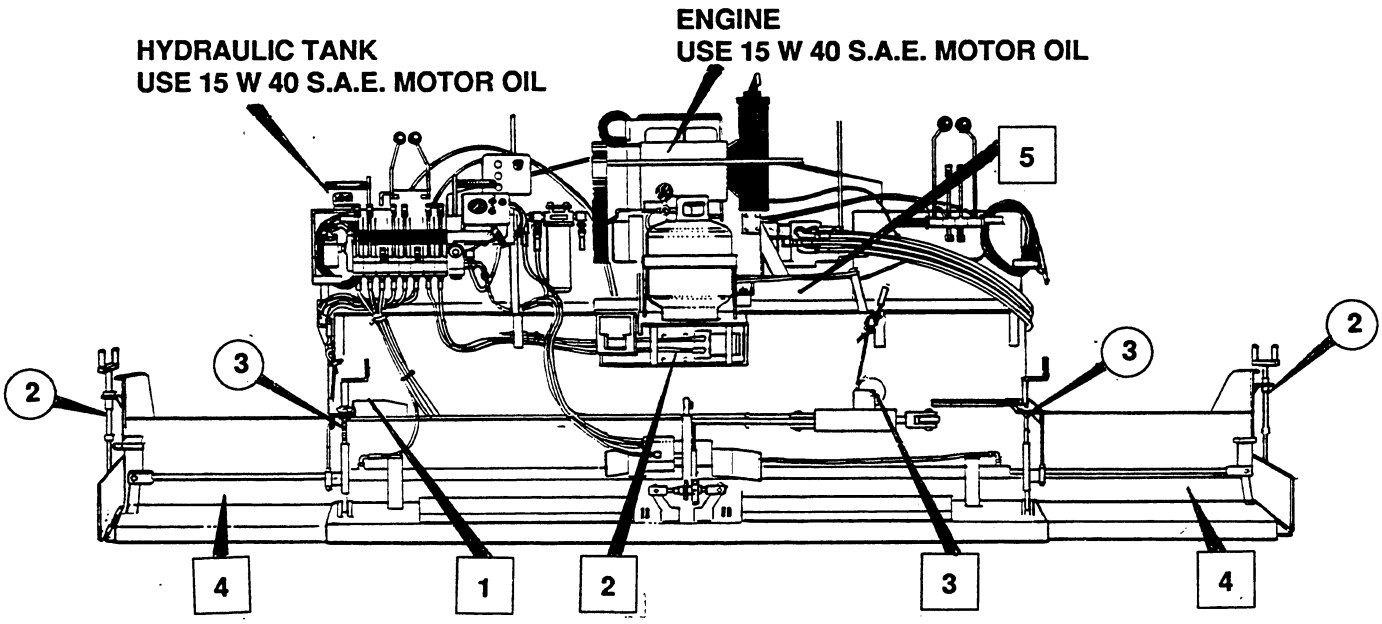


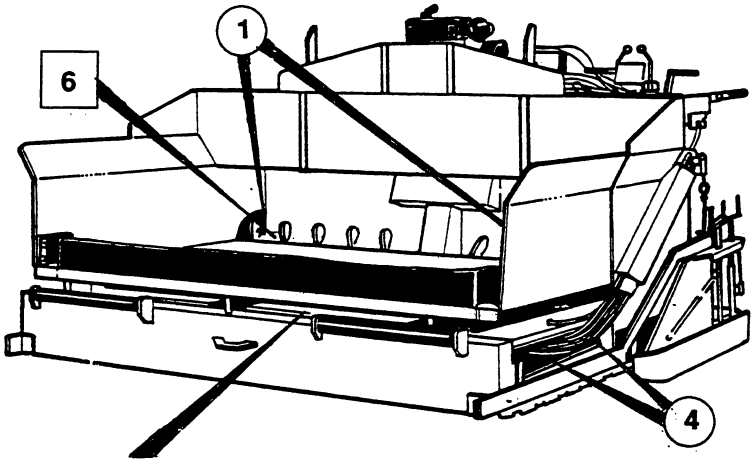
FIGURE 35

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).





TORQUE HUB AND GEAR BOX
USE 90 W GEAR OIL

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

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.)

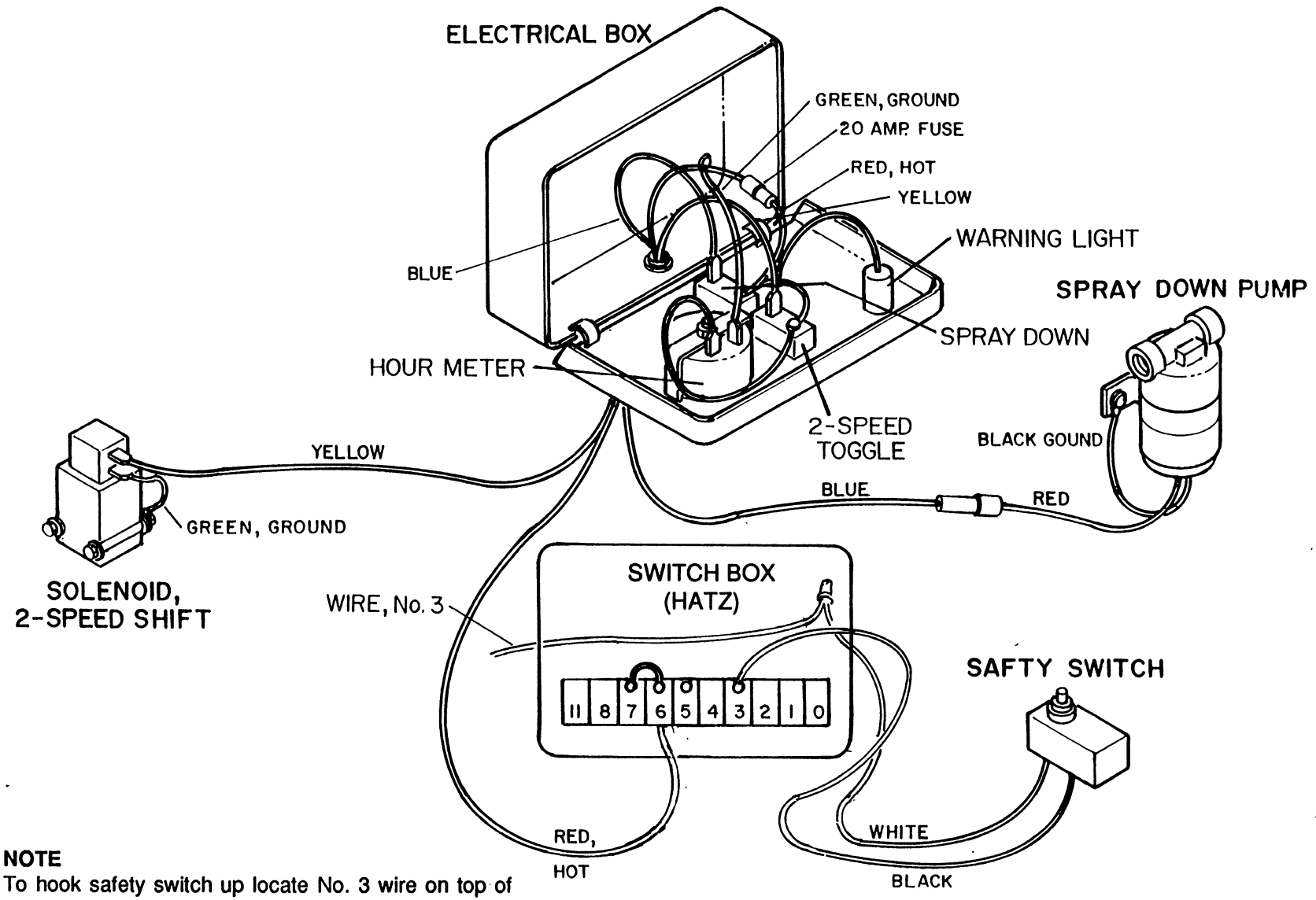
Trouble Shooting Guide

Problem	Probable Cause	Solution
Machine will not run straight	• Quadco out of adjustment • Lee-Boy Drive Control	• Adjust Cables
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 actvator	• Replace • Make sure wires in tack • Replace

Hydraulic Pressures

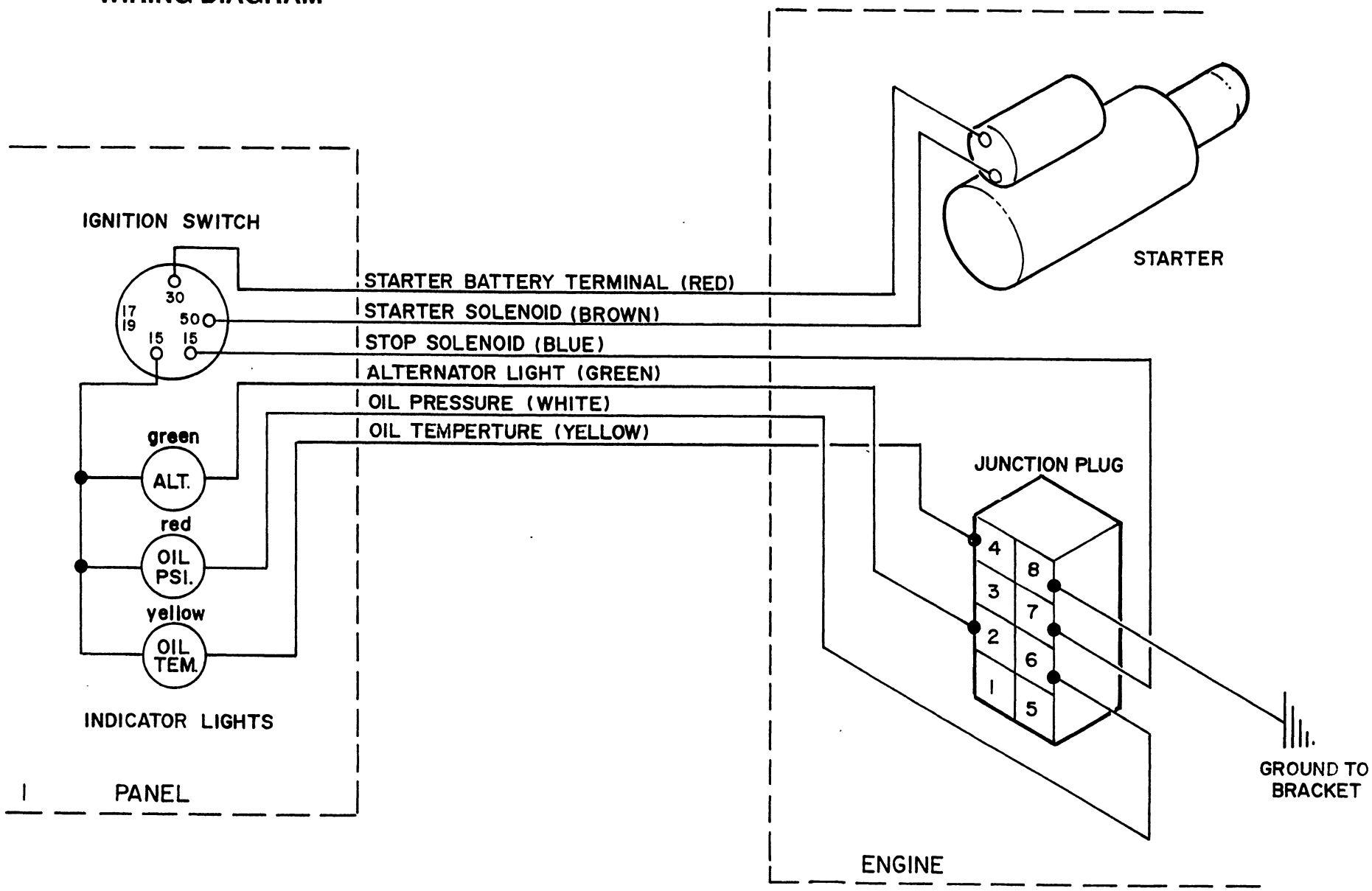
Drive	• 3000 PSI
Augers & Cyl.	• 1800 PSI

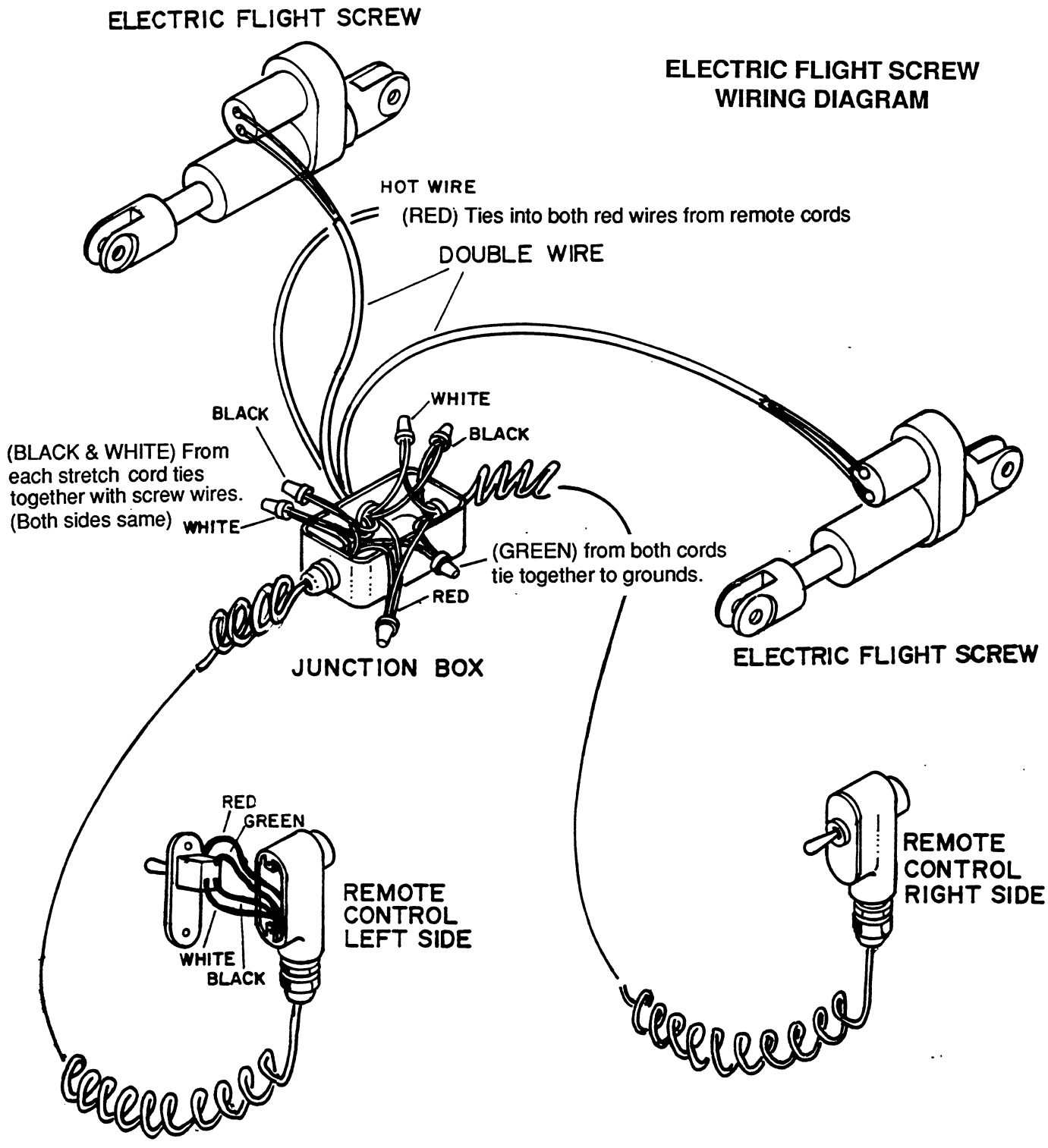
8' AND 9' 1000B TORQUE HUB (STANDARD)



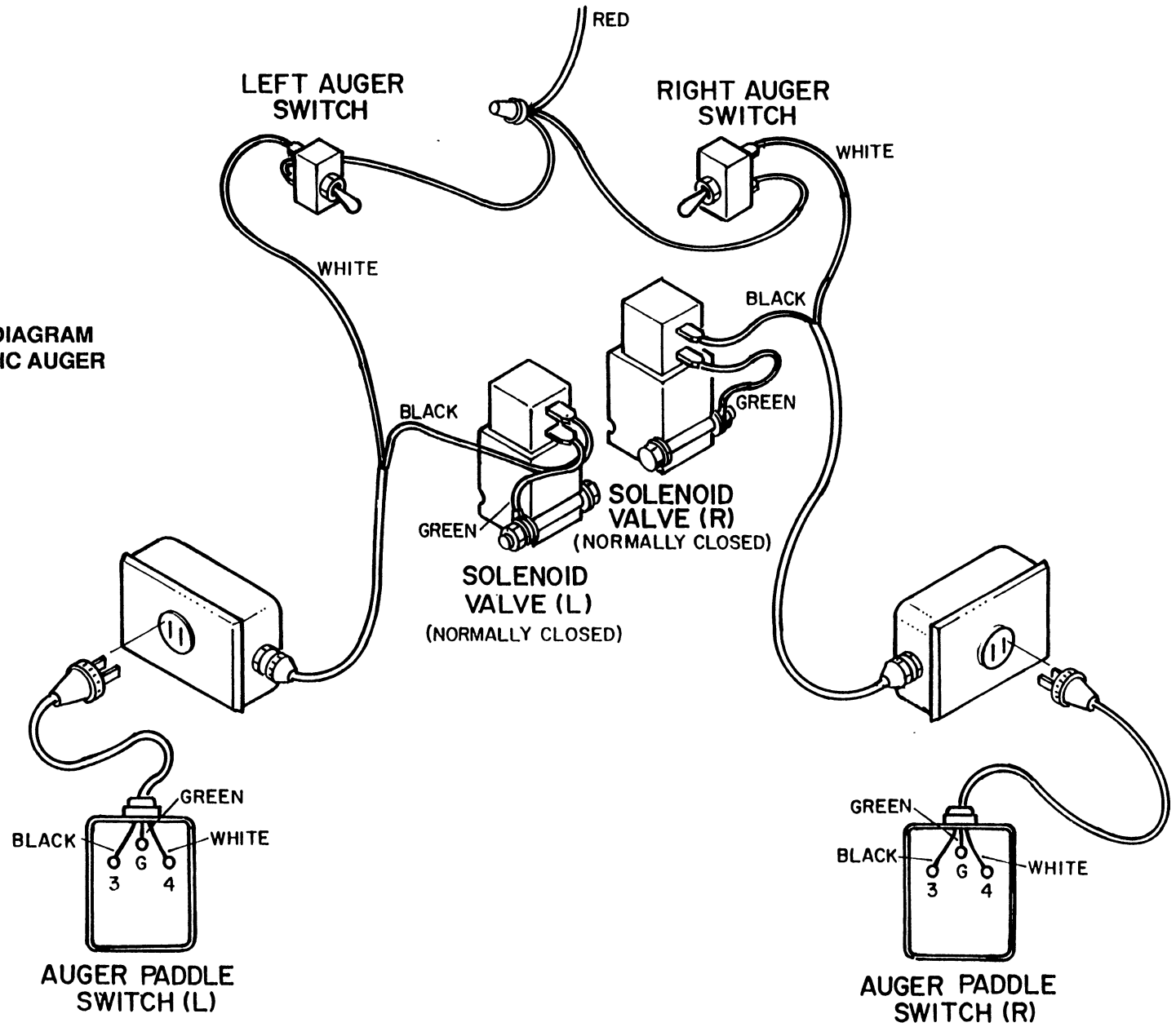
NOTE
To hook safety switch up locate No. 3 wire on top of junction block, wire No. 3 must be removed and tied to lead from safety switch. Other lead will tied into No. 3 on junction block.

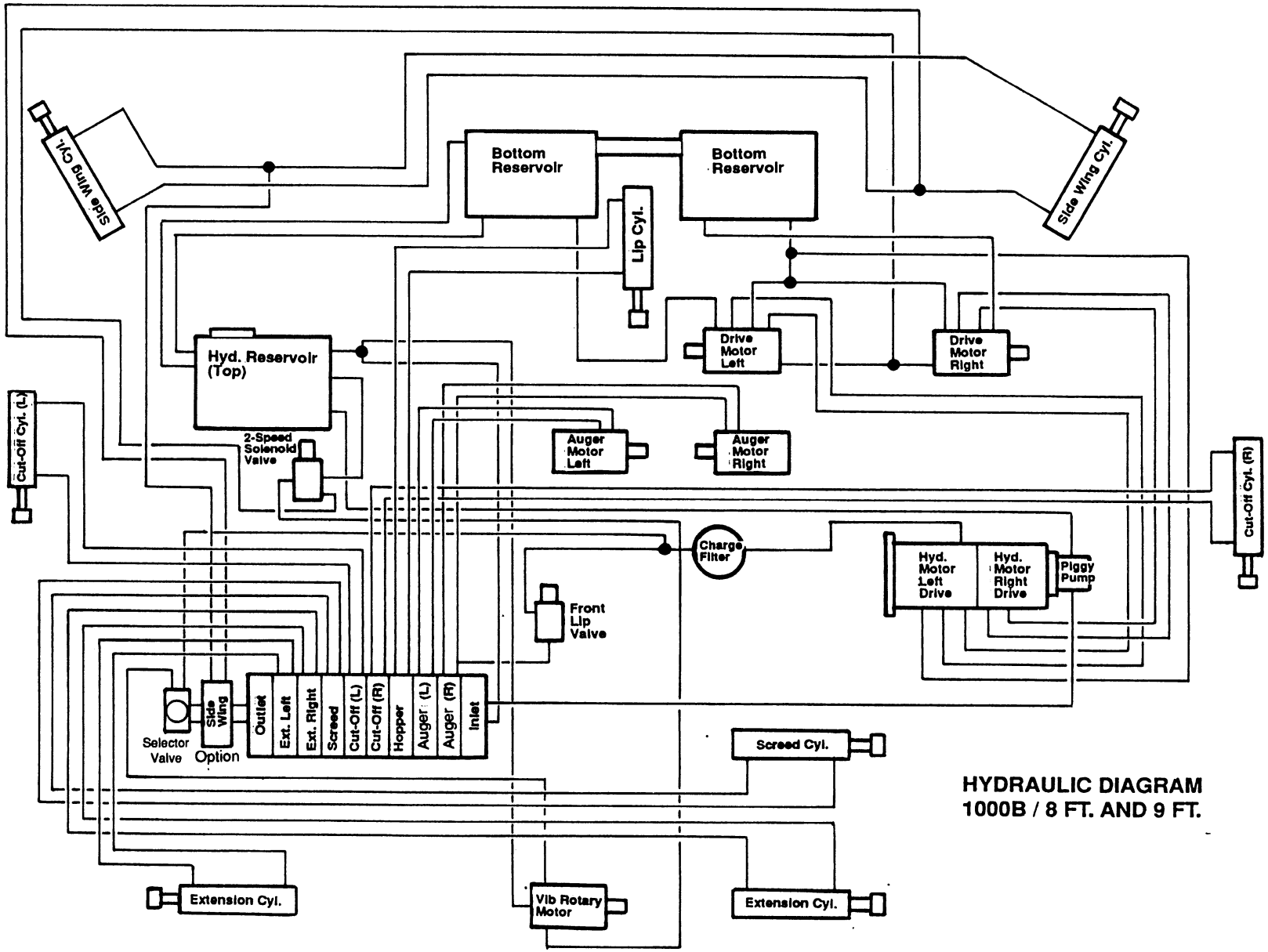
DEUTZ 1011 ENGINE WIRING DIAGRAM




ELECTRIC FLIGHT SCREW
ELECTRIC FLIGHT SCREW
WIRING DIAGRAM
HOT WIRE
(RED) Ties into both red wires from remote cords
DOUBLE WIRE
WHITE
BLACK
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
REMOTE CONTROL LEFT SIDE
WHITE
BLACK
REMOTE CONTROL RIGHT SIDE

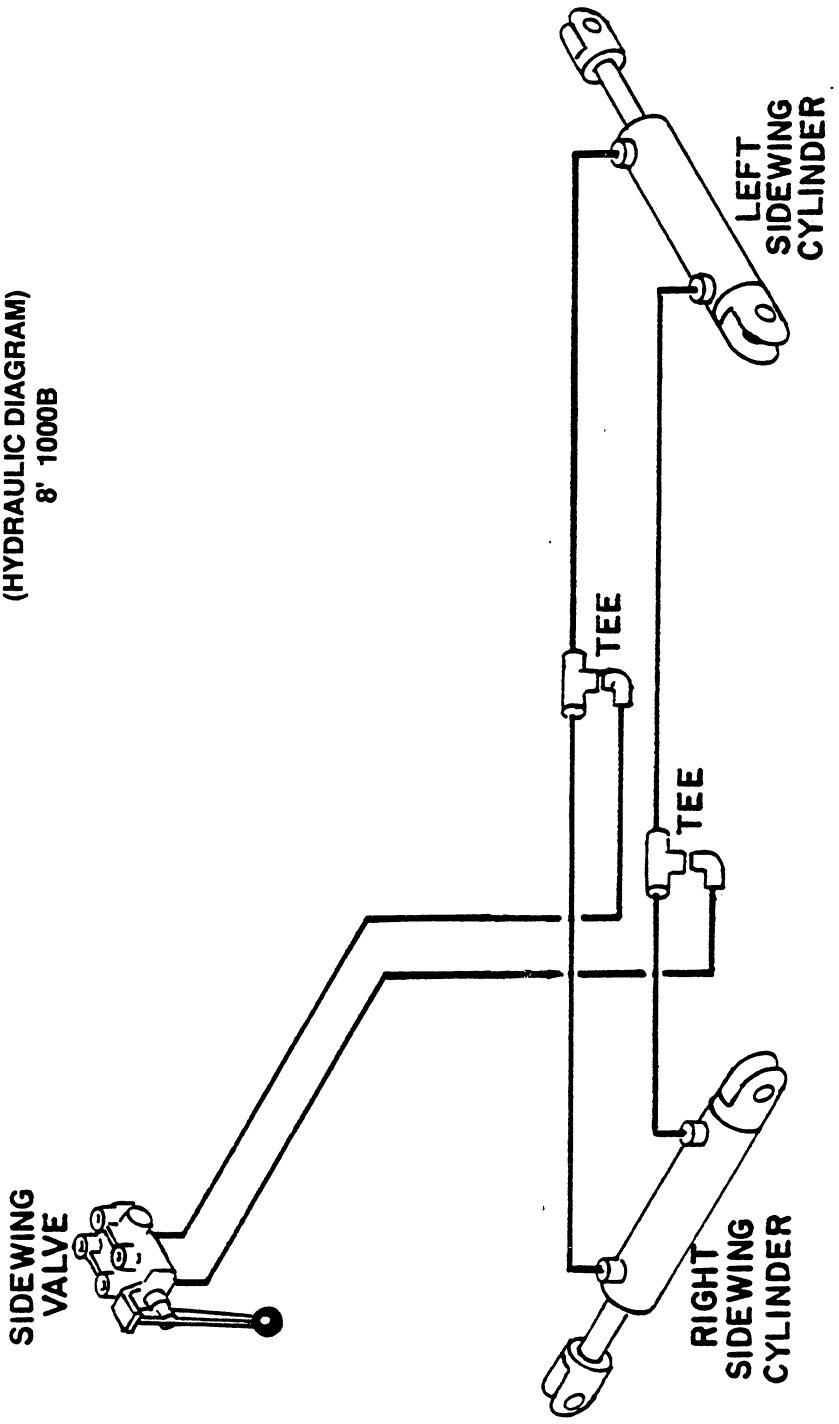
WIRING DIAGRAM
AUTOMATIC AUGER





HYDRAULIC DIAGRAM
1000B / 8 FT. AND 9 FT.

SIDEWING CYLINDERS
(HYDRAULIC DIAGRAM)
8' 1000B



PARTS LIST OF ILLUSTRATIONS

TRACK DRIVE ASSEMBLY (WITH TORQUE HUB) 1

TRACK DRIVE ASSEMBLY (WITH BOX TRANSMISSION) 3

RUBBER TIRE DRIVE ASSEMBLY 5

TRANSMISSION ASSEMBLY, HEAVY (RIGHT HAND SHOWN) 7

TRANSMISSION ASSEMBLY, REGULAR (RIGHT HAND SHOWN) 9

HOPPER AND HOPPER SIDEWINGS 11

SIDEWINGS AND HOPPER FLOOR PANEL (NEW STYLE) 13

HYDRAULIC RESERVOIR AND HOPPER LIFT CYLINDER 15

AUGER ASSEMBLY 17

HYDRAULIC RESERVOIR UPPER AND COMPONENTS 19

VALVE CONTROL STATION LEFT SIDE AND COMPONENTS (LEFT SIDE) 21

MAIN VALVE CONTROL PLUS SPRAYDOWN ASSEMBLY 23

FUEL TANK AND RIGHT SIDE CONTROLS 25

PUMP COMPONENTS 27

FILTER LOCATION & ACCESSORIES (HATZ) 29

ENGINE COMPONENTS (HATZ) 31

DEUTZ COMPONENTS 33

DEUTZ ENGINE COMPONENTS 35

PROPANE HEATER ASSEMBLY & AUTOMATIC IGNITORS 37

SCREED BACK ASSEMBLY ..... 39 - 41

BASIC SCREEDS 42

JOINTER ASSEMBLY 43

VIBRATOR ASSEMBLY 45

SEAT, GUIDE BAR, QUADCO CONTROL PLUS CONTROL LEVERS 47

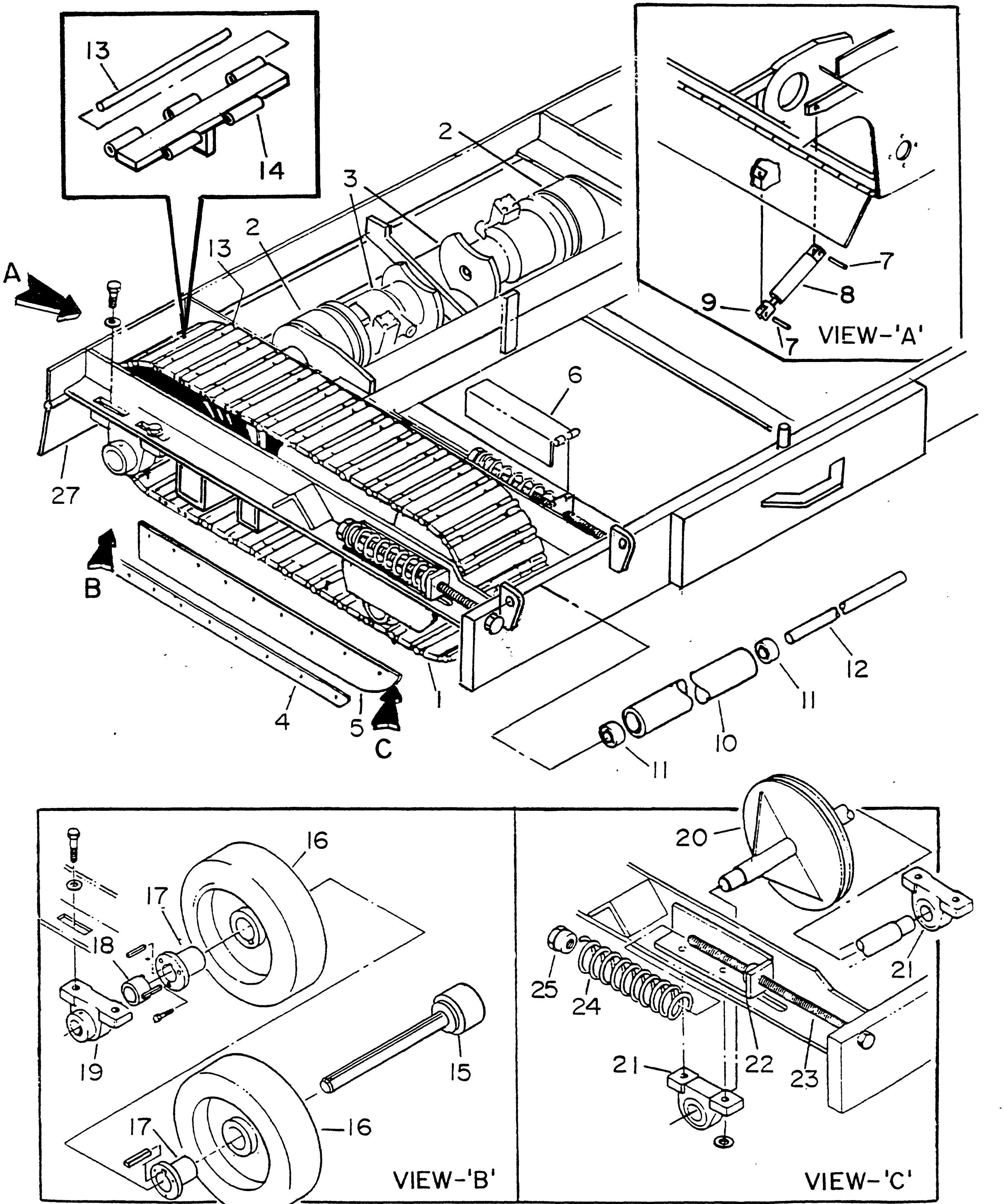
TRUCK HITCH ASSEMBLY 49

HYDRAULIC HOPPER SIDEWINGS (8' MODELS ONLY) 51

AUTOMATIC AUGER, ELECTRIC COMPONENTS 53

DECALS: SAFETY AND INFORMATIVE 55

UMBRELLA 57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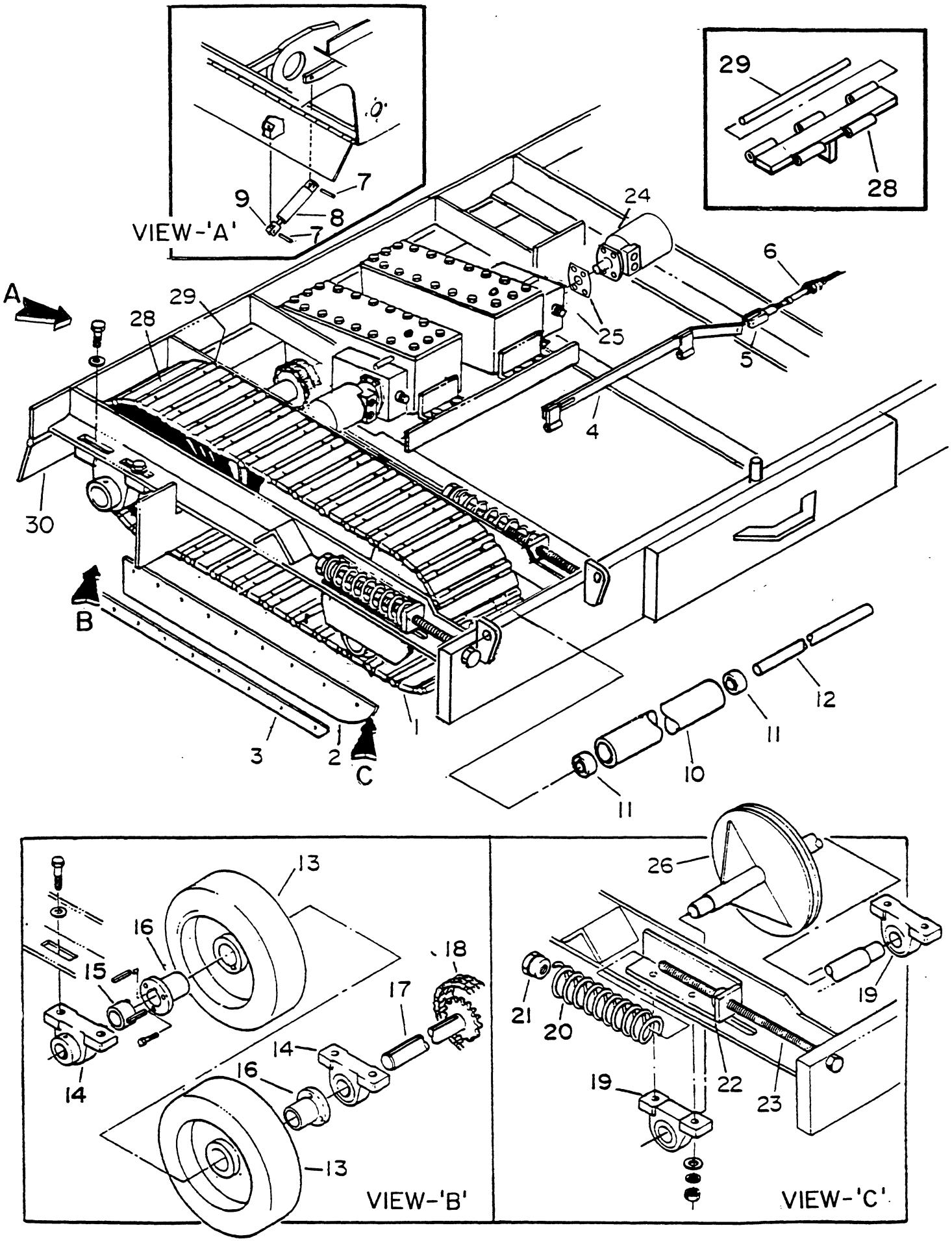
TRACK DRIVE ASSEMBLY
(With Torque Hub)

LeeBoy

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	810015	TRACK ASSEMBLY (Complete Set) (1000, 900, 800 & 700)	1
2	811020	Torque Hub	2
3	811030	Motor, Hydraulic (Drive)	2
4	810031	Mount, Shield (1000)	4
5	810020	Shield, Track Guard (Rubber) (1000)	4
6	811060	Guard, Adjustment	4
7	811376	Pins, Cylinder	
8	811374	Cylinder, Cutoff (2 1/2" x 4") (Note: Need To Know If Ports On Top Or Side)	1
9	811373	Yoke, Cylinder	
10	810102	Roller, Bumper	2
11	810110	Bearing, Roller 1 1/4"	4
12	810122	Shaft, Bumper	2
13	810291	Pin, Master (Track)	A/R
14	810281	Section, Track	A/R
15	811150	Axle, Rear	2
16	810129	Tire, 5" x 16" (Molded)	4
17	810160	Bushing, 2 1/4"	4
18	810151	Spacer	2
19	810140	Bearing, Pillowblock 2 1/4"	2
20	810262	Idler, Front (New Style 14 3/4") (1000B)	2
	810261	Idler, Front (Older Style 16") (1000B)	2
21	810190	Bearing, Pillowblock 2"	4
22	810222	Support, Adjustment (L or R Specify)	4
23	810233	Bolt, Adjustment (18")	4
24	810200	Spring, Adjustment	4
25	810210	Nut, Backup	4
26	810272	Roller, Center (NS)	2
27	810276	Cutoff, Complete (8'-1000 Track With Torque Hub 94")	1
28	810301	Cutoff, Complete (9') (7 1/4" x 108") (Both Sides) (N/S)	
		*** WHEN ORDERING SEAL KITS GIVE TYPE OF MOTOR AND MODEL # OF MOTOR ***	
		Seal Kit For Drive Motor	
29	870310	Seal Kit, (For Drive Motor) (Sunstrand M46) (N/S)	1
30	870312	Kit, Seal (Cutoff Cylinder) (2 1/2" x 4") (Bobalee) (N/S)	1
31	811365	Kit, Seal (Torque Hub) (N/S)	1
32	811366	O-ring (Torque Hub To Motor) (N/S)	1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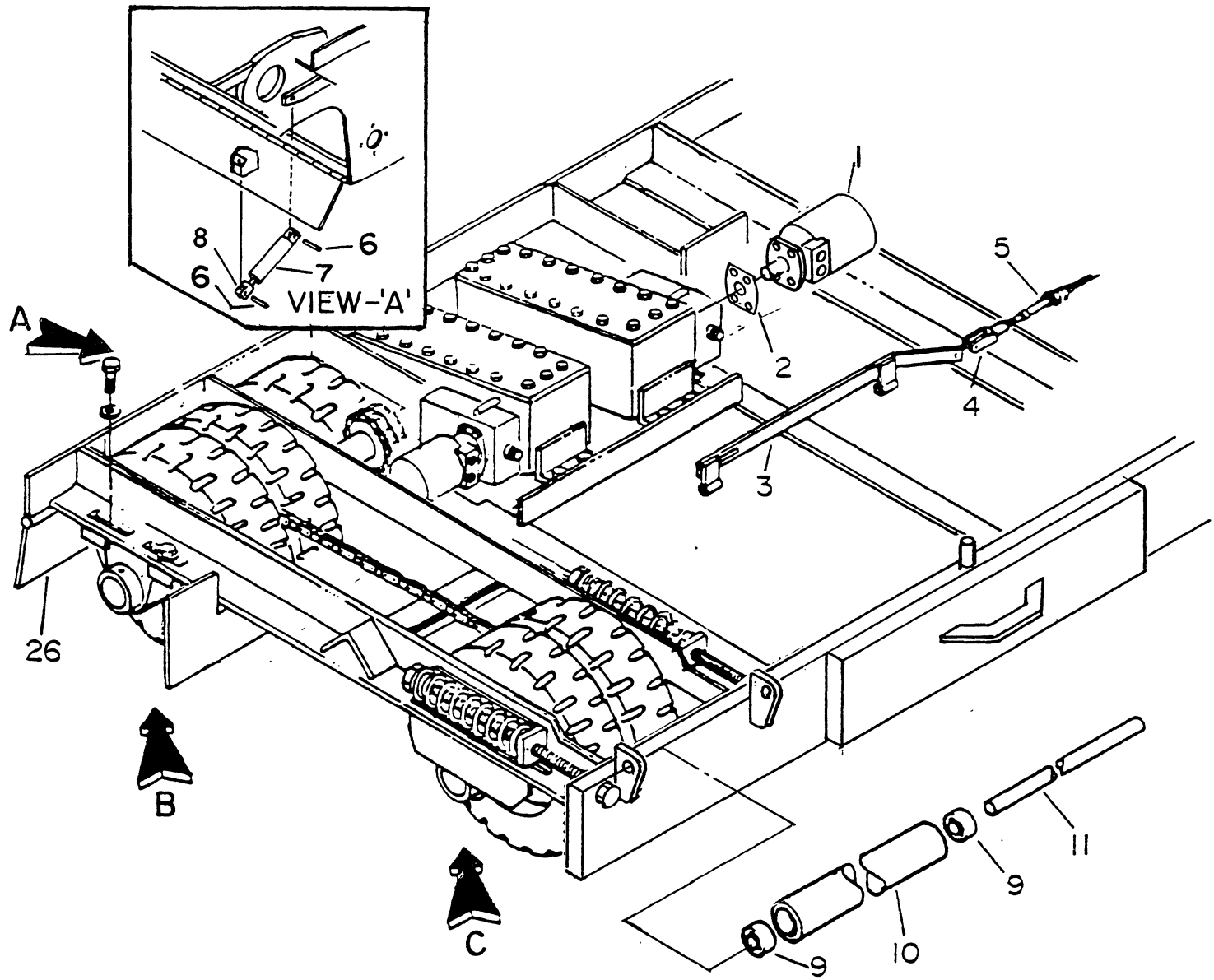
TRACK DRIVE ASSEMBLY
(With Box Transmission)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	810015	TRACK ASSEMBLY (Complete Set)	2
2	810020	Shield	4
3	810031	Mount, Shield	4
4	810042	Harness, Shift	1
5	810050	Clevis, Shift	2
6	810060	Cable, Shift (3" x 86")	1
7	811376	Pins	2
8	811374	Cylinder, Cutoff (2 1/2" x 4") (Note: Need To Know If Ports Are On Top Or Side)	1
9	811373	Yoke, Cylinder	
10	810102	Roller, Bumper	2
11	810110	Bearing, Roller	4
12	810122	Shaft, Bumper	4
13	810129	Tire, (5" x 16")	4
14	810140	Bearing, Pillowblock 2 1/4"	4
15	810151	Spacer	2
16	810160	Bushing, 2 1/4"	4
17	810172	Axle, Rear (2 1/4" x 36")	2
18	810180	Chain, Coupling	2
19	810190	Bearing, Pillowblock 2"	4
20	810200	Spring, Adjustment	4
21	810210	Nut, Backup	4
22	810222	Support, Adjustment (Left or Right, Specify)	4
23	810233	Bolt, Adjustment	4
24	810240	Motor, Hydraulic Drive	2
25	810250	Gasket, Drive Motor	2
26	810261	Idler, Front (16") (1000B)	2
	810262	Idler, Front (14 3/4") (1000B) (New Style)	2
27	810272	Roller, Center (N/S)	2
28	810281	Section, Track	A/R
29	810291	Pin, Master (Track	2
30	810300	Cutoff, Complete (9')	1
31	810304	Cutoff, Complete (8')	1
32	810183	Double 80 Master Link (N/S)	2

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

		Seal Kit For Drive Motor	
32	860020	Kit, Seal (Drive Motor) (Ross) (MB12) (1 1/4" Spline)	1
		Seal Kit For Cylinder	
33	870312	Kit, Seal (Cutoff Cylinder) (2 1/2" x 4") (Bobalee)	1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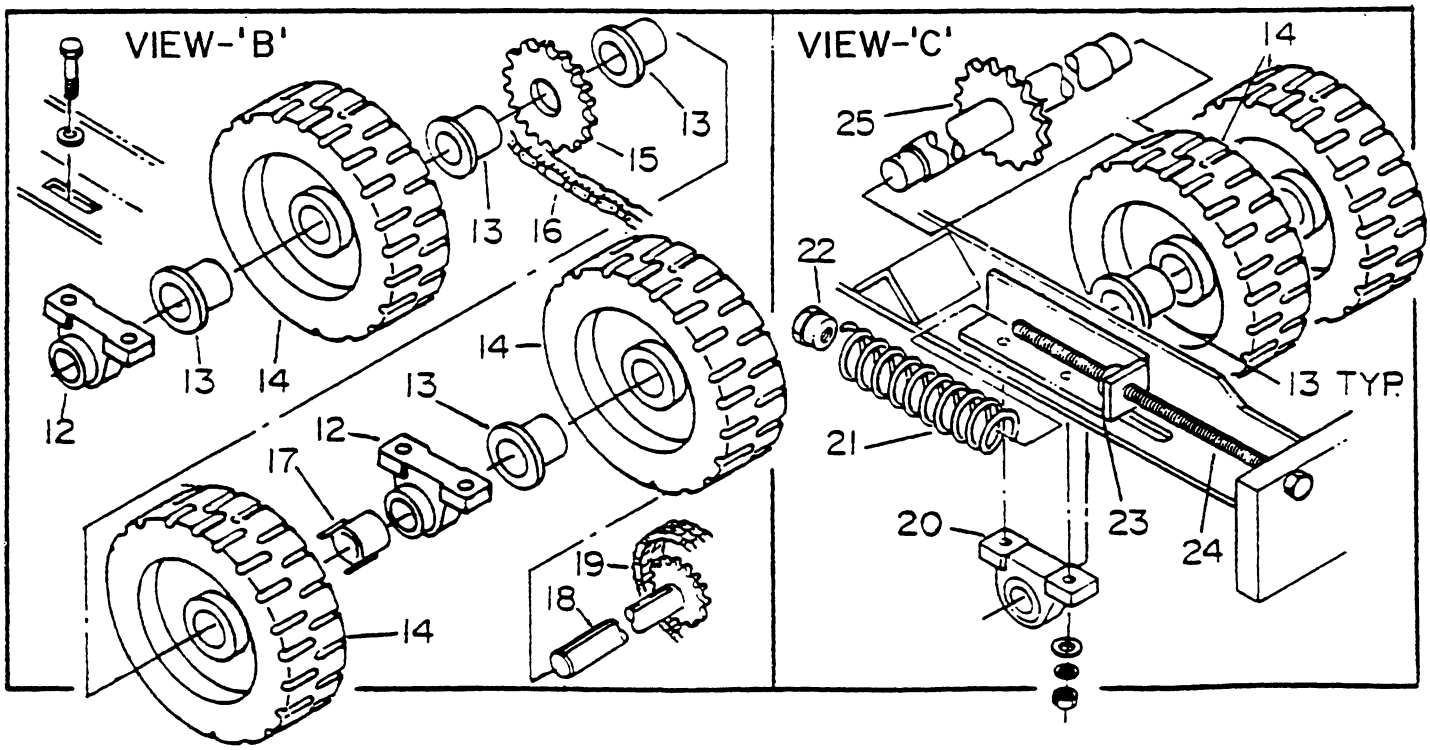
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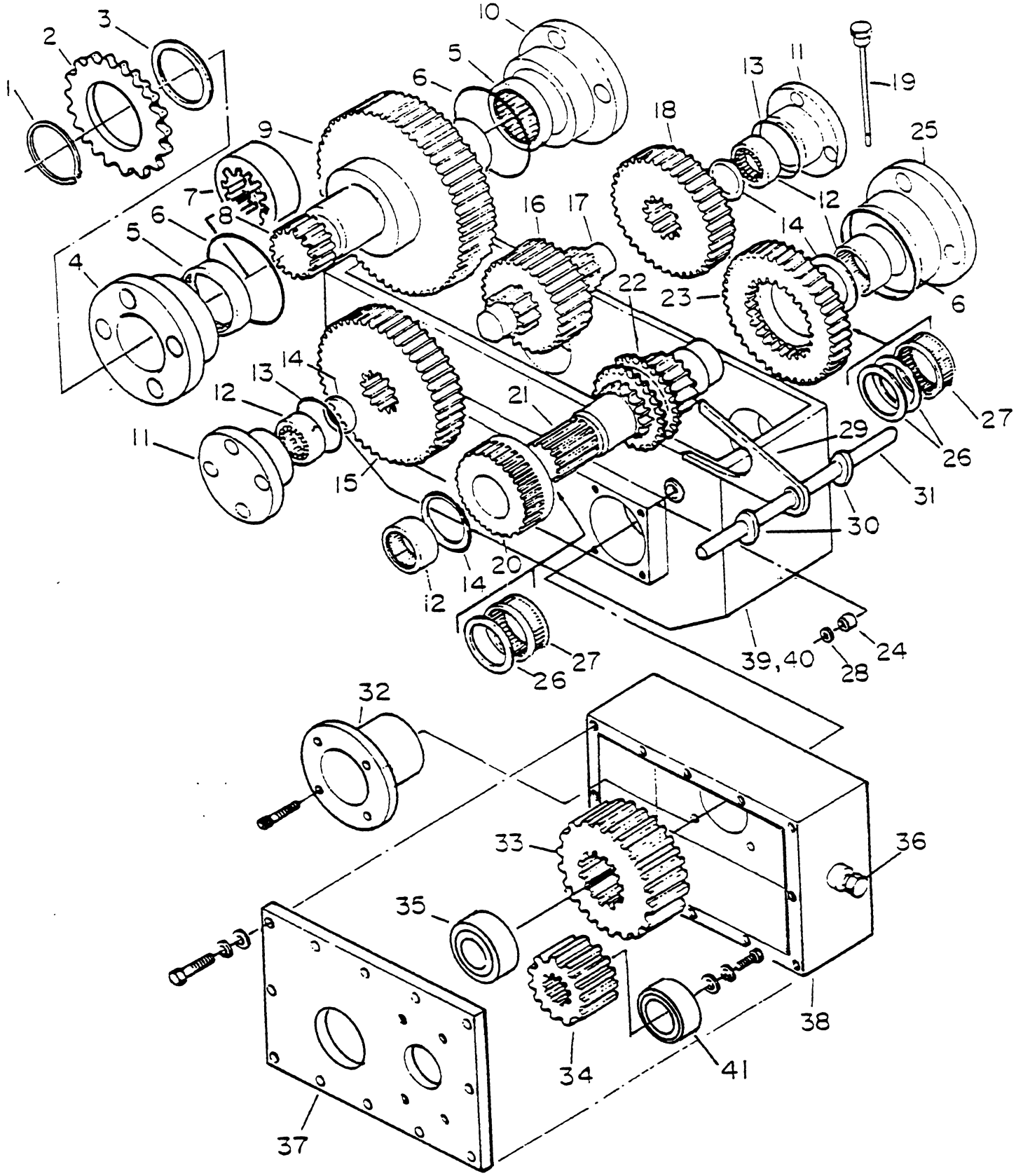
RUBBER TIRE DRIVE ASSEMBLY

LeeBoy

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	810240	Motor, Hydraulic Drive	2
2	810250	Gasket, Drive Motor	2
3	810042	Harness, Shift	1
4	810050	Clevis, Shift 3/8"	1
5	810060	Cable, Shift (3" x 86")	1
6	811376	Pins	
7	811374	Cylinder, Cutoff (2 1/2" x 4") (Note: Need To Know If Ports Are On Top Or Side)	1
8	811373	Yoke, Cylinder	
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")	4
14	900115	Tire, Lug (Molded) (5" x 18")	10
15	820150	Sprocket, 80Q22	2
16	900116	Chain, Transfer (80)	2
17	810151	Spacer	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	810200	Spring, Adjustment	4
22	810210	Nut, Backup	4
23	810221	Support, Adjustment (L or R Specify)	4
24	810233	Bolt, Adjustment (18")	4
25	900207	Axle, Front Drive (9') (2" x 21 1/2")	2
26	810300	Cutoff, Complete (9') (7 1/4" x 108") (Both Sides)	1
27	811172	Prop., Hopper (N/S)	1
28	810183	Link, Double Master (Double 80) (N/S)	2
29	810172	Axle, Rear (36" x 2 1/4") (8') (N/S)	
30	810304	Cutoff, Complete (8') (7 1/4" x 94") (N/S)	

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

		Seal Kit For Drive Motor	
31	860020	Kit, Seal (Drive Motor) (Ross) (MB12) (1 1/4" Spline)	1
		Seal Kit For Cylinder	
32	870312	Kit, Seal (Cutoff Cylinder) (2 1/2" x 4") (Bobalee)	1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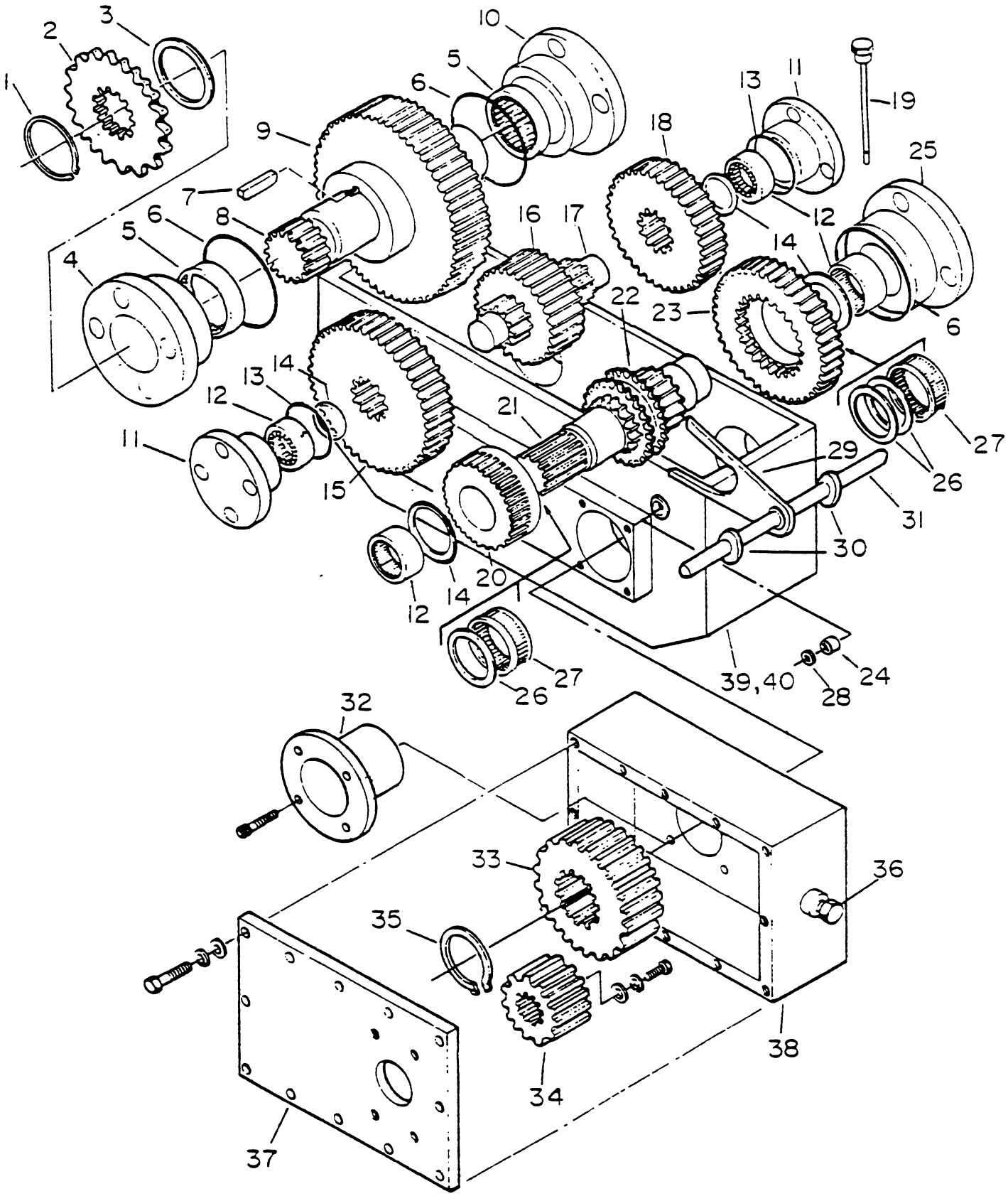
TRANSMISSION ASSEMBLY, HEAVY (RIGHT HAND SHOWN)

(HEAVY DUTY) SERIAL NUMBERS 1059 and ABOVE

NOTE: SERIAL NUMBERS 1075B thru 1077B, 1080B thru 1086B, 1088B, 1093B, 1094B, 1125B, 1127B,1131B,1141B,1155B ARE EQUIPPED WITH REGULAR GEARBOX

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	830004	RH Transmission	
	830005	LH Transmission	
1	830010	Snap, ring	1
2	830020	Sprocket, output (80S22)	1
3	830030	Seal, rear	1
4	830041	Cap, rear seal	1
5	830050	Bearing, rear	2
6	830060	O-Ring, front & rear	3
7	831424	Spacer, bull gear	2
8	831082	Shaft, rear	1
9	*831092	*Gear, bull (Sold in match sets) (Use Part # 831455)	1
10	830101	Cap, plain	1
11	830111	Cap, plain center	2
12	830120	Bearing, front & center	4
13	830130	O-Ring, center cap	2
14	830140	Spacer	A/R
15	*831151	*Gear, low (center shaft) (Sold in match sets) (Use Part # 831450)	1
16	*831161	*Gear, intermediate (Sold in match sets) (Use Part # 831455)	1
17	830171	Shaft, center	1
18	*831181	*Gear, high (center shaft) (Sold in match sets) (Use Part # 831460)	1
19	830191	Stick, dip	1
20	*831201	*Gear, low (front shaft)(Sold in match sets) (Use Part # 831450)	1
21	831211	Shaft, front	1
22	830221	Gear, clutch	1
23	*831231	*Gear, high (front shaft)(Sold in match sets) (Use Part # 831460)	1
24	830240	Bushing, Bronze	1
25	830251	Cap, plain	1
26	830260	Spacer, inner gear	3
27	830270	Bearing, inner gear	2
28	830280	Seal, shifter	2
29	830291	Fork, shifter	1
30	830300	Collar, shifter fork	2
31	830311	Shaft, shifter	1
32	830321	Cap, front (bored)	1
33	*831331	*Gear, input (Sold in match sets) (Use Part # 831465)	1
34	*831341	*Gear, driver (Sold in match sets) (Use Part # 831465)	1
35	831410	Bearing, input	1
36	830360	Plug	1
37	831371	Plate, side	1
38	830382	Housing, side box	1
39	830393	Housing, main gear box	1
40	830402	Plate, top cover (N/S)	1
41	831420	Bearing, (For Driver Gear)	1
42	831421	Allen bolts (N/S)	
		*** GROUPS SOLD IN MATCH SETS ONLY**	
43	*831450	Low Gear, (For Centershaft) & Low Gear, (For Frontshaft) Set • Item #15 & #20	
44	*831455	Bull & Intermediate Gear (Set) #9 & #16	
45	*831460	High Gear, (For Centershaft) & High Gear, (For Frontshaft) Set • Item #18 & #23	
46	*831465	Input & Driver Gear (Set) Item #33 & #34	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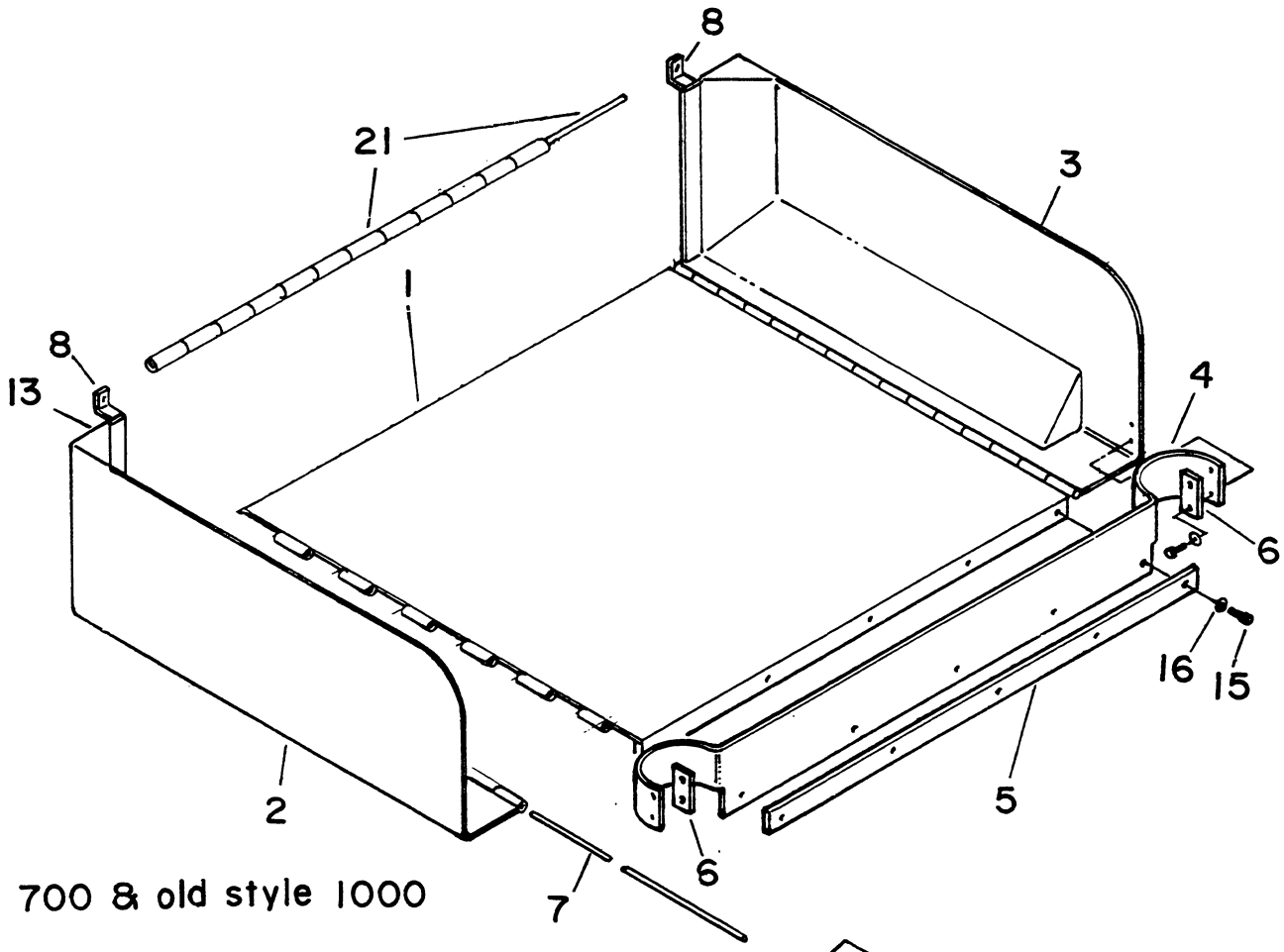
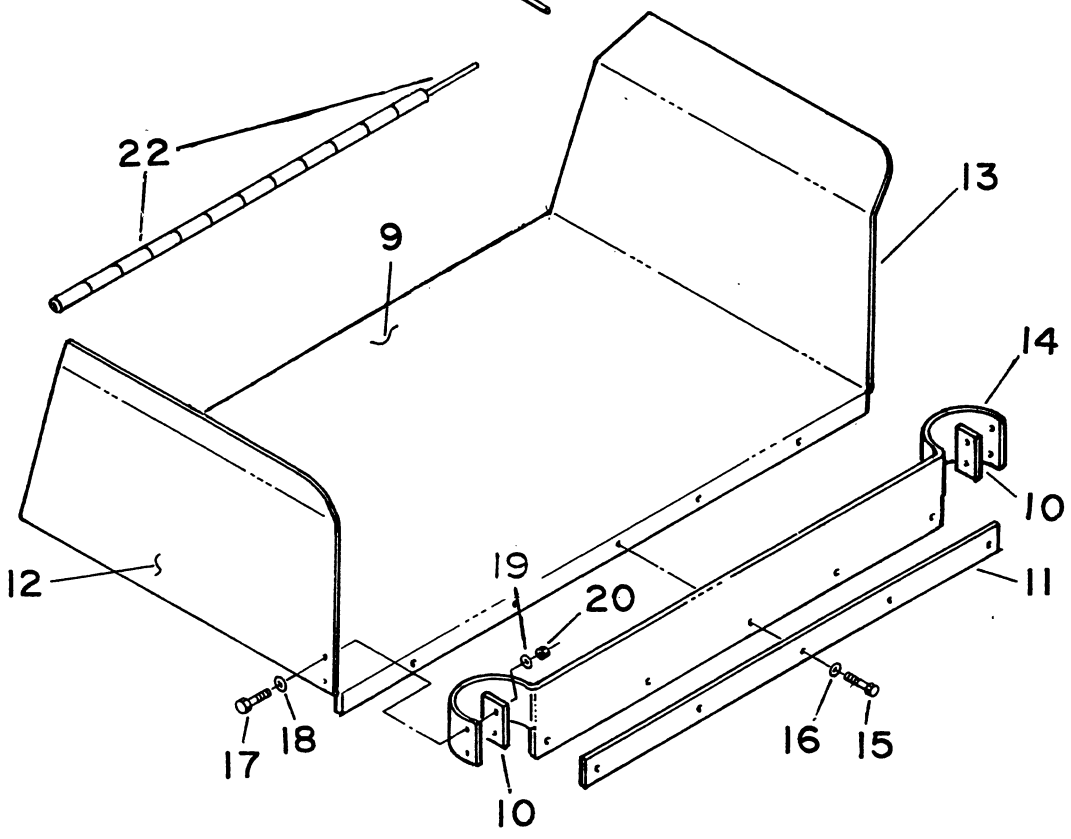
TRANSMISSION ASSEMBLY, REGULAR (RIGHT HAND SHOWN)

SERIAL NUMBERS UP TO 1058B WITH DIRECT DRIVE
SERIAL NUMBERS 1075B thru 1077B, 1080B thru 1086B, 1088B, 1093B, 1094B, 1125B, 1127B,1131B,1141B,1155B ARE EQUIPPED WITH REGULAR GEARBOX

ITEM NO.	CURRENT PART NO.	DESCRIPTION	QTY.
	830007	RH Transmission	
	830008	LH Transmission	
1	830010	Ring, snap	1
2	830020	Sprocket, output (80S22)	1
3	830030	Seal, rear	1
4	830041	Cap, rear seal	1
5	830050	Bearing, rear	2
6	830060	O-Ring, front & rear	3
7	830071	Key, 1/2 harden	2
8	830082	Shaft, rear	1
9	*830092	*Gear, bull (Sold in match sets) (Use Part # 831470)	1
10	830101	Cap, plain (rear)	1
11	830111	Cap, plain center	2
12	830120	Bearing, Front & center	4
13	830130	O-Ring center cap	2
14	830140	Spacer, center	A/R
15	*830151	*Gear, low (center shaft) (Sold in match sets) (Use Part # 830450)	1
16	*830161	*Gear, intermediate (Sold in match sets) (Use Part # 831470)	1
17	830171	Shaft, center	1
18	*830181	*Gear, high (center shaft)(Sold in match sets) (Use Part # 830460)	1
19	830191	Stick, dip	1
20	*830201	*Gear, low (front shaft) (Sold in match sets) (Use Part # 830450)	1
21	830211	Shaft, front	1
22	830221	Gear, clutch	1
23	*830231	*Gear, high (front shaft)(Sold in match sets) (Use Part # 830460)	1
24	830240	Bronze Bushing	1
25	830251	Cap, plain (front)	3
26	830260	Spacer, inner gear	3
27	830270	Bearing, inner gear	2
28	830280	Seal, shifter	2
29	830291	Fork, shifter	1
30	830300	Collar, shifter fork	2
31	830311	Shaft, shifter	1
32	830321	Cap, front (bored)	1
33	*830331	*Gear, input (Sold in match sets) (Use Part # 830465)	1
34	*830341	*Gear, driver (Sold in match sets) (Use Part # 830465)	1
35	830350	Ring, snap	1
36	830360	Plug	1
37	830371	Plate, side	1
38	830382	Housing, side box	1
39	830393	Housing, main gear box	1
40	830402	Plate, top cover (N/S)	1
41	831420	Bearing, (For Driver Gear)	1
42	831421	Allen bolts (N/S)	1
		*** GROUPS SOLD IN MATCH SETS ONLY**	
43	*830450	Low Gear, (For Centershaft) & Low Gear, (For Frontshaft) Set • Item #15 & #20	
44	*830455	Bull & Intermediate Gear (Set) Item #9 & #16	
45	*830460	High Gear, (For Centershaft) & High Gear, (For Frontshaft) Set • Item #18 & #23	
46	*830465	Input & Driver Gear (Set) Item #33 & #34	
47	831470	•Kit* Heavy Duty Bull & Intermediate Gear, Rear Shaft & Spacer Set - Item #6 & 7 (Note: When replacing these items, do not install snap ring on rear shaft, on models that have the chain going down to gearbox.)	



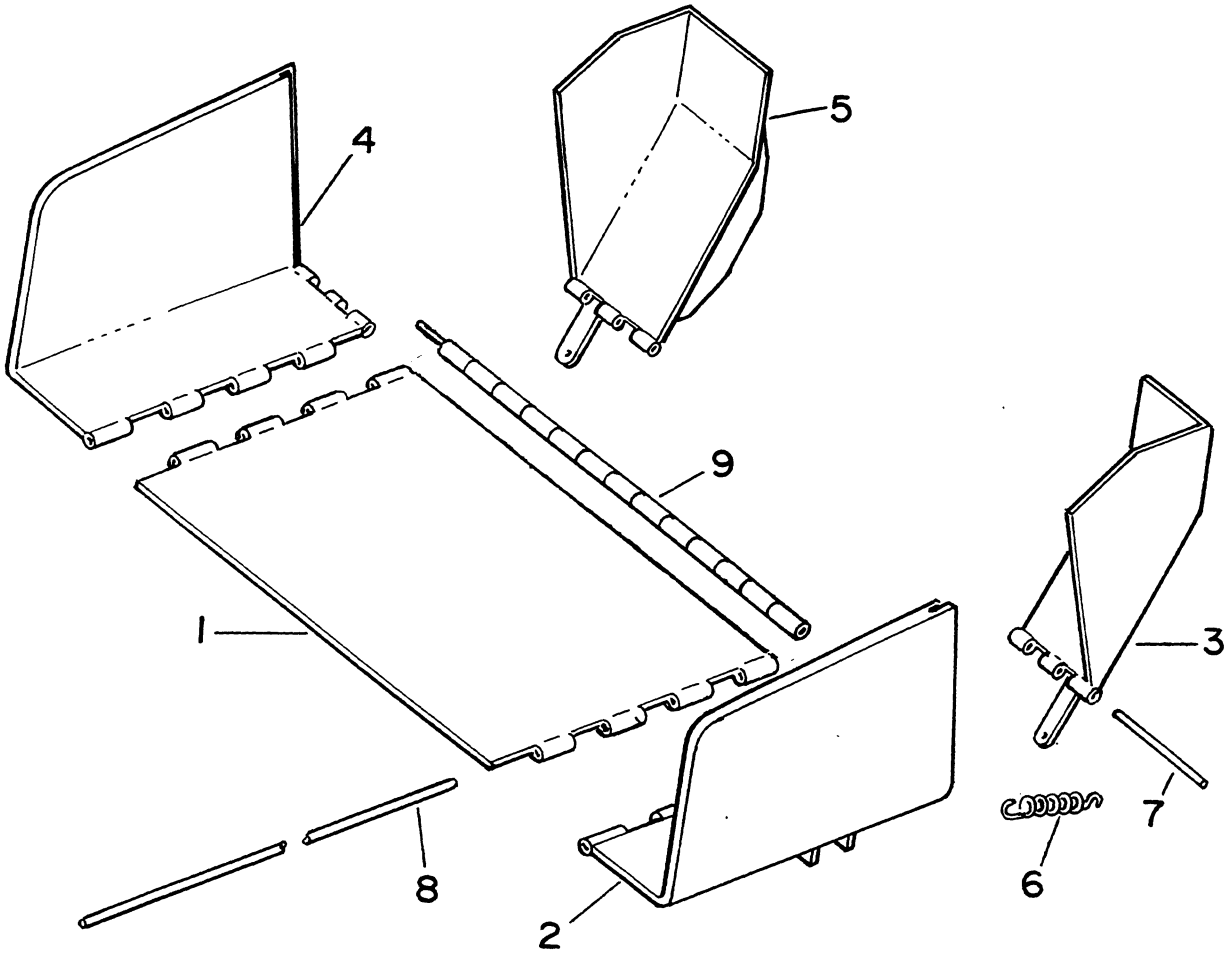
700 & old style 1000



9 ft. model

HOPPER AND HOPPER SIDEWINGS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	930000	Floor, Hopper (8')	1
2	930001	Sidewing, Right	1
3	930002	Sidewing, Left	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	1
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")	A/R
16	930017	Washers, (Lock) (3/8")	A/R
17	930018	Bolts, (3/8" x 1 1/2")	4
18	930019	Washers, (Flat) (3/8")	4
19	930024	Washers, (Lock) (3/8")	
20	930021	Nuts, (3/8")	
21	930022	Hinge, Hopper (8')	
22	930023	Hinge, Hopper (9')	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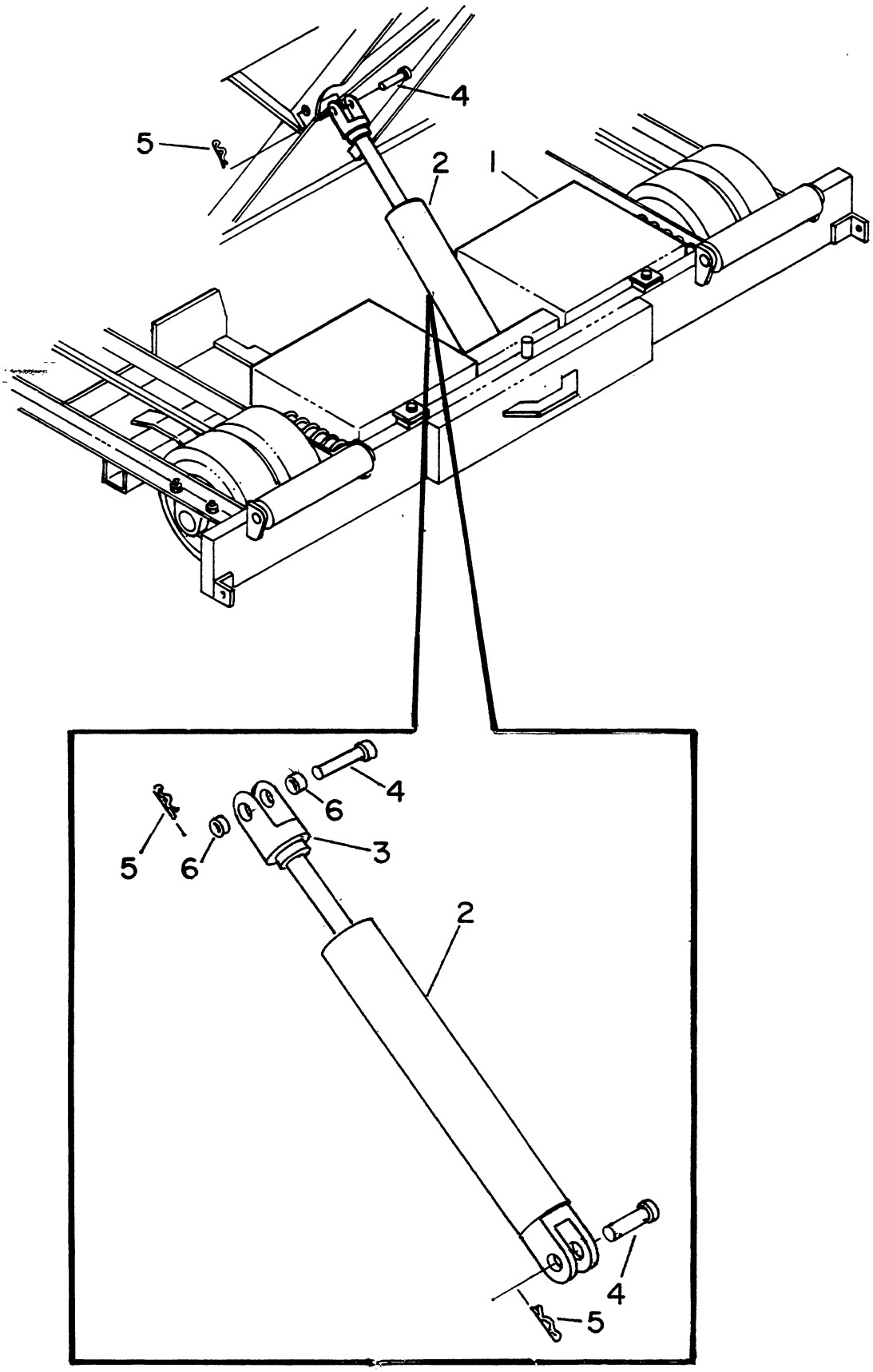
SIDEWINGS AND HOPPER FLOOR PANEL (New Style)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	930000	Floor, Hopper (8') (Hydraulic Sidewings specify)	1
2 & 3	930026	Sidewing. Left (8') (Must Buy Items 2 & 3) (Front)	1
4 & 5	930027	Sidewing, Right (8') (Must Buy Items 4 & 5) (Front)	1
6	930029	Spring	2
7	930031	Pin, Sidewing Extension	2
8	930032	Pin, Sidewing	2
9	930022	Hinge, Hopper	1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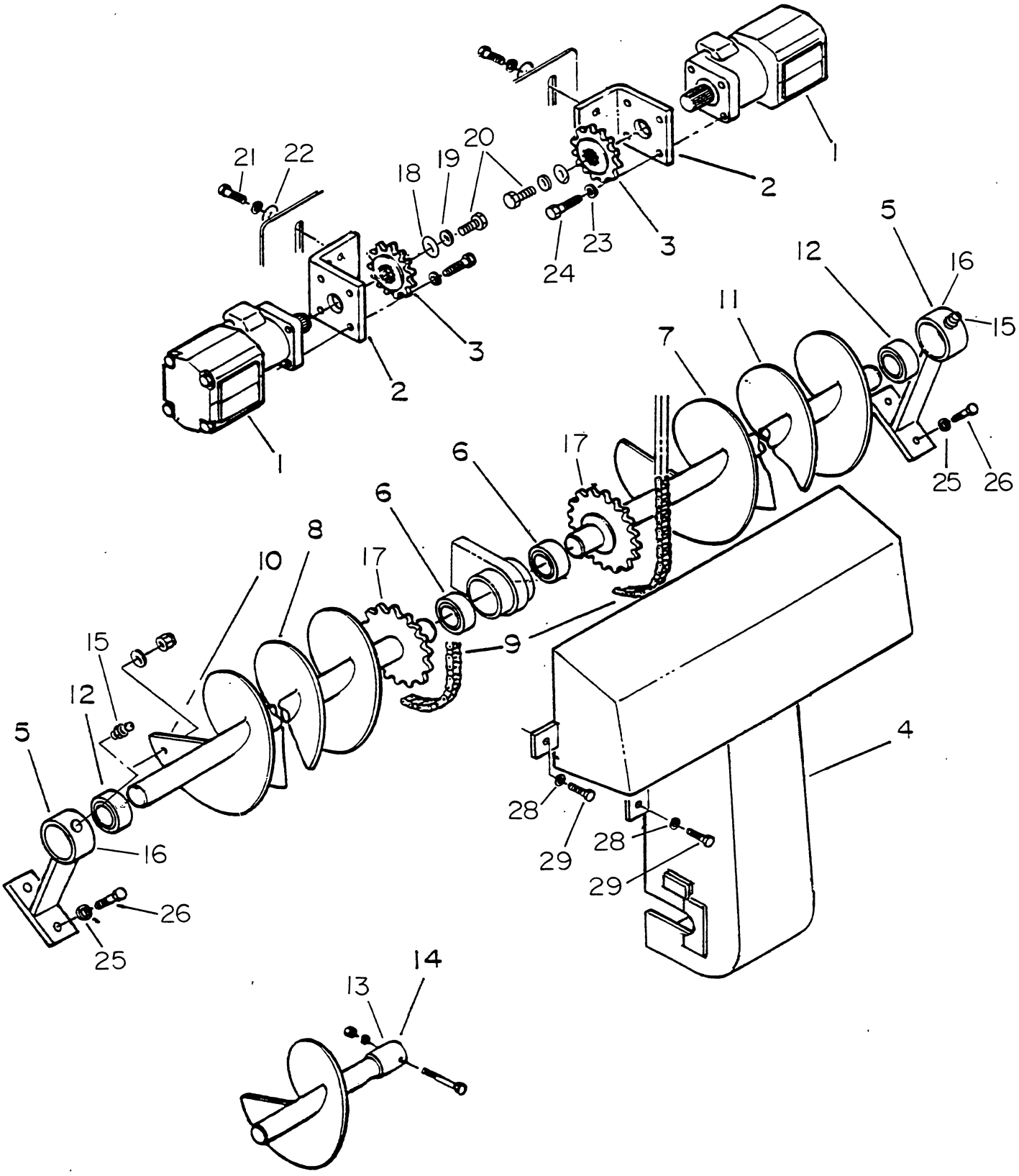
HYDRAULIC RESERVOIR AND HOPPER LIFT CYLINDER

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	930034	Reservoir, Hydraulic	1
2	930036	Cylinder, Hopper Lift (4 x 14) (old part no. 800068)	1
3	930037	Yoke, Cylinder Hopper	1
4	930038	Pin	2
5	930039	Pin, Hitch	2
6	930041	Bushing	2
7	870313	Kit, Hopper Cylinder	1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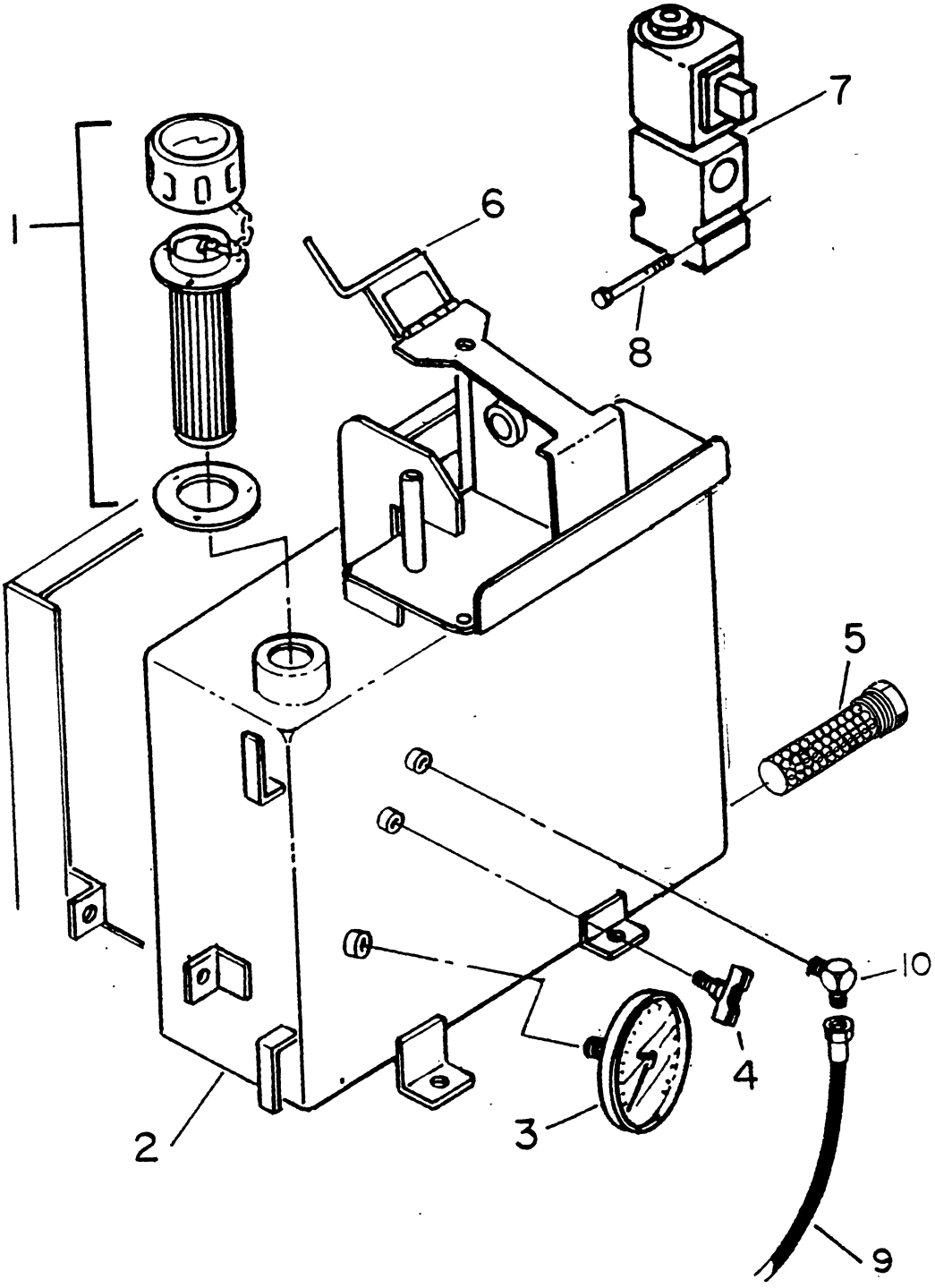
AUGER ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	*860010	Motor, Hydraulic (Auger)	2
2	900602	Support, Motor (Auger) (When ordering this part use part #860021)	2
3	900613	Sprocket, Auger Motor (Splined - 12 Tooth) (Used On Newer Model 1000, 900 & 700 Machines)	2
	900603	Sprocket, Auger Motor (10 Tooth-Keyed) (Used On Older Model 900 & 800 Machines)	2
4	900616	Cover, Auger (New Style)	1
	900605	Cover, Auger (Old Style)	1
5	900618	Mount, Auger End (New Style)	2
	900606	Mount, Auger End (Old Style) (Use New Style, Flip Over & Drill New Holes)	2
6	850130	Bearing, Auger Inner	2
7	900607	Auger, L/H (9')	1
	900619	Auger, L/H (8')	1
8	900607A	Auger, R/H (9')	1
	900620	Auger, R/H (8')	1
9	860090	Chain, Auger (60H)	2
10	900610	Flight, Auger (R/H) (Welds On)	A/R
11	900611	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	1
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"	4
21	860039	Bolt, 5/8"	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"	
27	860046	Nuts, 7/16"	A/R
28	860047	Washers, Lock 7/16"	A/R
29	860048	Bolts, 7/16"	2
30	860049	Link, Master (60H) (N/S)	

*** 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)	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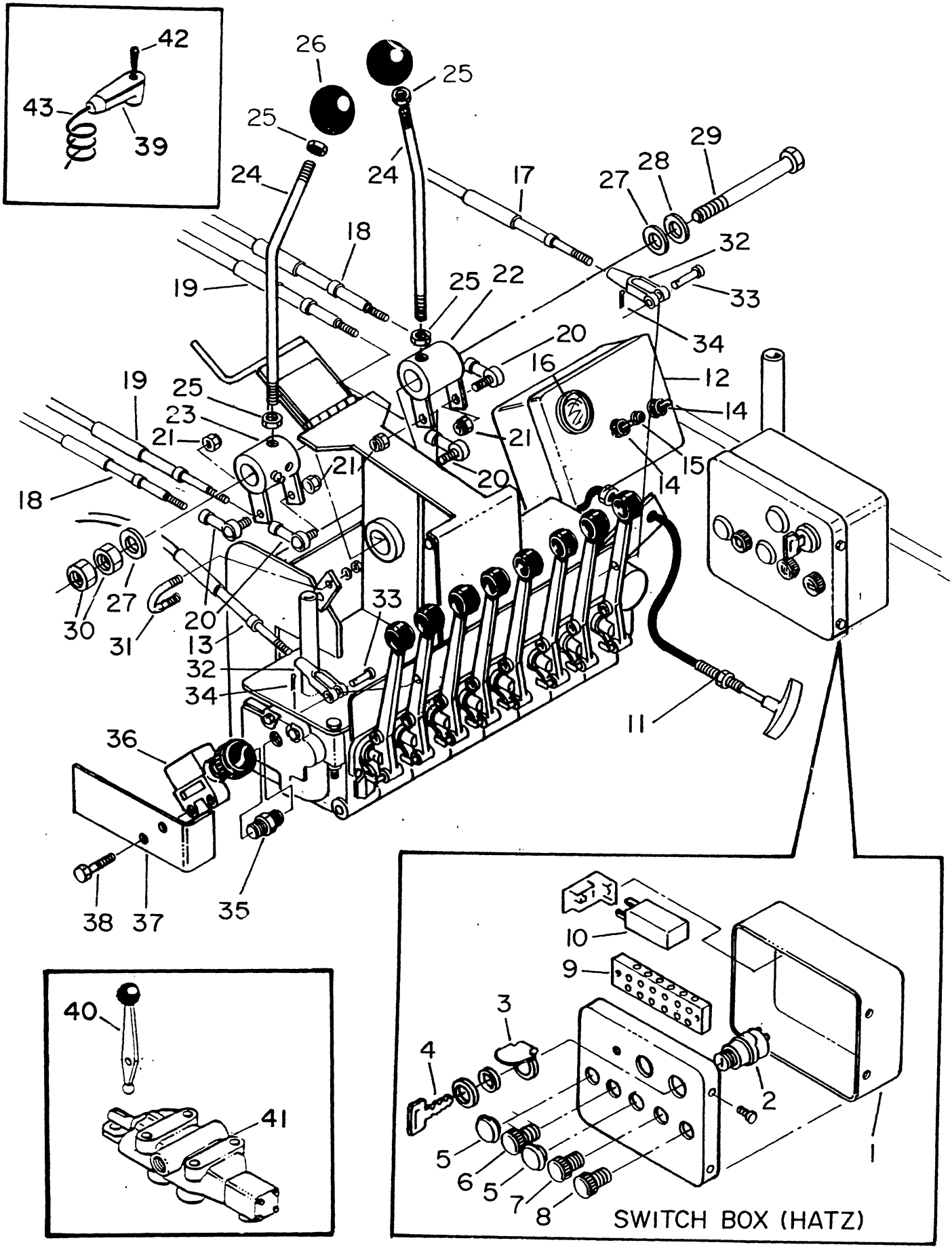
HYDRAULIC COMPONENTS & ACCESSORIES (L/H SIDE)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	910160	Cap, Breather	
2	840014	Tank, Hydraulic	
3	330040	Gauge, Temperature (8000 only)	
4	910150	Petcock	
5	910020	Strainer, Suction	
6	910124	Speed, Stop	
7	900140	Valve, (Hi/Low) (T/H)	
8	910127	Bolt, (1/4")	
9	910128	Hose, Vent	
10	910129	Elbow, (90°)	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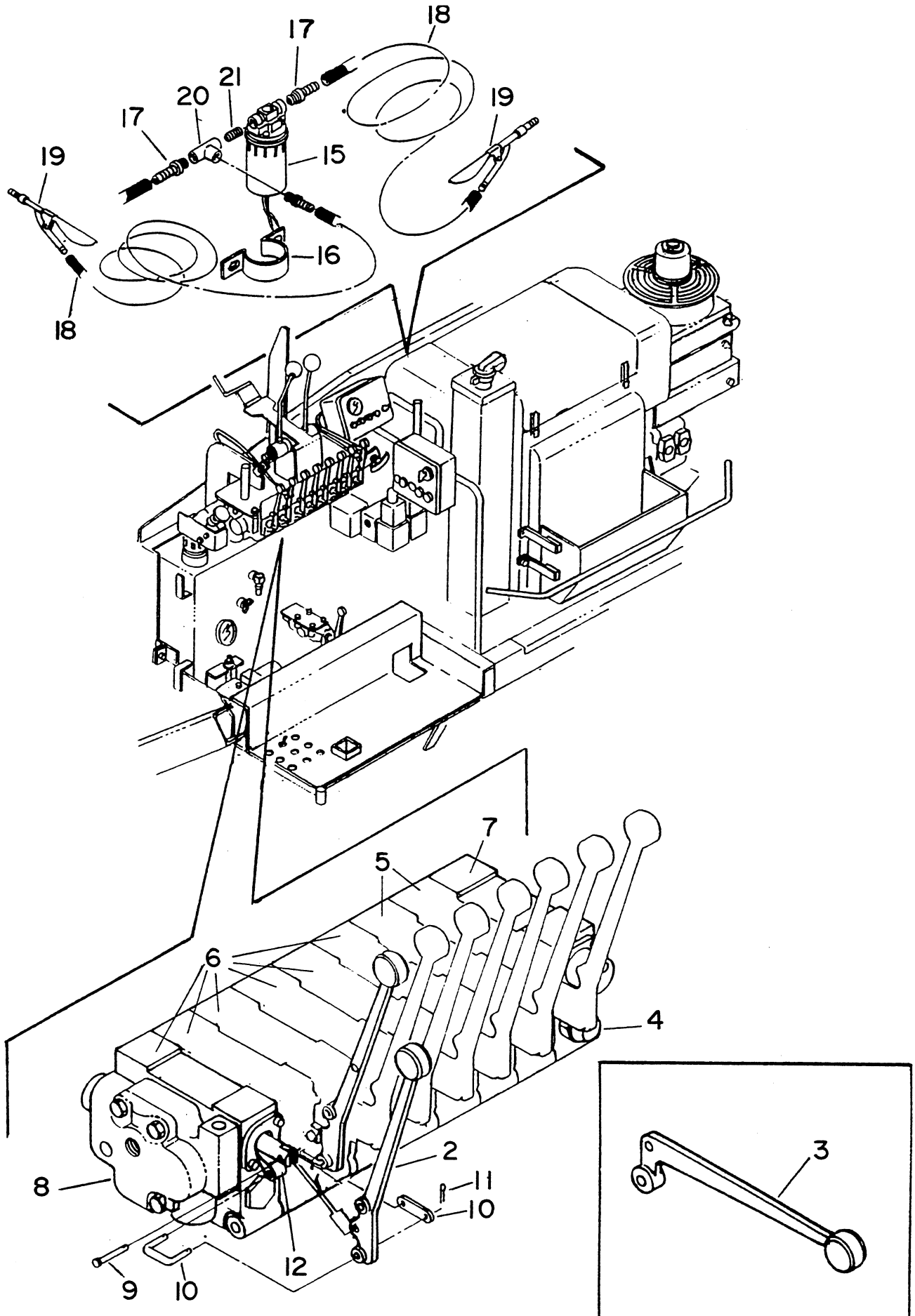
SWITCH BOX (HATZ)

VALVE CONTROL STATIONS LEFT SIDE AND COMPONENTS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	320425	Switchbox, Complete (Hatz)	
2	320390	Switch, (Hatz)	1
3	320370	Cover Only, Switch	1
4	320380	Keys, (Hatz) (New Style)	1
5	320382	Plugs	
6	320384	Light, Indicator (Oil) (Hatz)	
7	320385	Light, Indicator (Air) (Hatz)	
8	320386	Light, Indicator (Alternator) (Hatz)	
9	320340	Block, Terminal	
10	320320	Relay	1
11	920160	Cable, Throttle (Hatz) 8' (All 8'-1000 with Hatz takes 36")	1
11A	920185	Cable, Throttle (Hatz) 9' (All 9'-1000 with Hatz takes 42")	
12	900152	Dash, Complete (Hatz)	
13	920130	Cable, Extension (R/H) (123" x 3") (9' Machine only)	2
13A	920140	Cable, Extension (R/H) (116" X 3") (8' Machine only)	
14	500040	Switch, Toggle (2-Speed & Spraydown)	
15	900120	Light, (High/Low)	1
16	900130	Meter, Hour	1
17	920140	Cable, Auger (116" x 3") (9' Machine only)	1
17A	920120	Cable, Auger (104" X 3") (8' Machine only)	
18	920140	Cable, Drive (R/H) (116" x 3") (9' Machine only)	2
18A	920120	Cable, Drive (R/H) (104" X 3") (8' Machine only)	
19	920124	Cable, Pump (88" x 3") (8' & 9' Machines)	2
20	920090	Rodend, Spherical (W/Stud)	4
21	920092	Nut, (3/8" Fine Thread)	4
22	920094	Pivot, (R/H)	1
23	920096	Pivot, (L/H)	2
24	920097	Handle, Drive	4
25	920098	Nuts, Jam	
26	920225	Knob, Round	
27	920226	Washer, Flat (5/8")	2
28	920227	Washer, Bevel	2
29	920229	Bolt	1
30	920231	Nuts, Jam (5/8")	2
31	900713	U-Bolts, (3/8")	1
32	350050	Clevis, Yoke (1/4")	
33	850099	Pin, Clevis (1/4")	
34	850100	Pin, Cottor (1/4")	
35	920233	Coupler	
36	910080	Valve, Vibrator	
37	920234	Shield	
38	920237	Bolts	
39	920238	Control, Remote (Electric Flight Screw)	
40	920239	Handle, Wings	
41	920240	Valve, Wings (When ordering this part, use part #910120)	
42	900080	Switch, remote (only)	
43	900082	Cord, remote	
44	900070	Assembly, Remote Switch (N/S)	

NOTE:
Refer to page 48 if your machine has Quadco Drive.

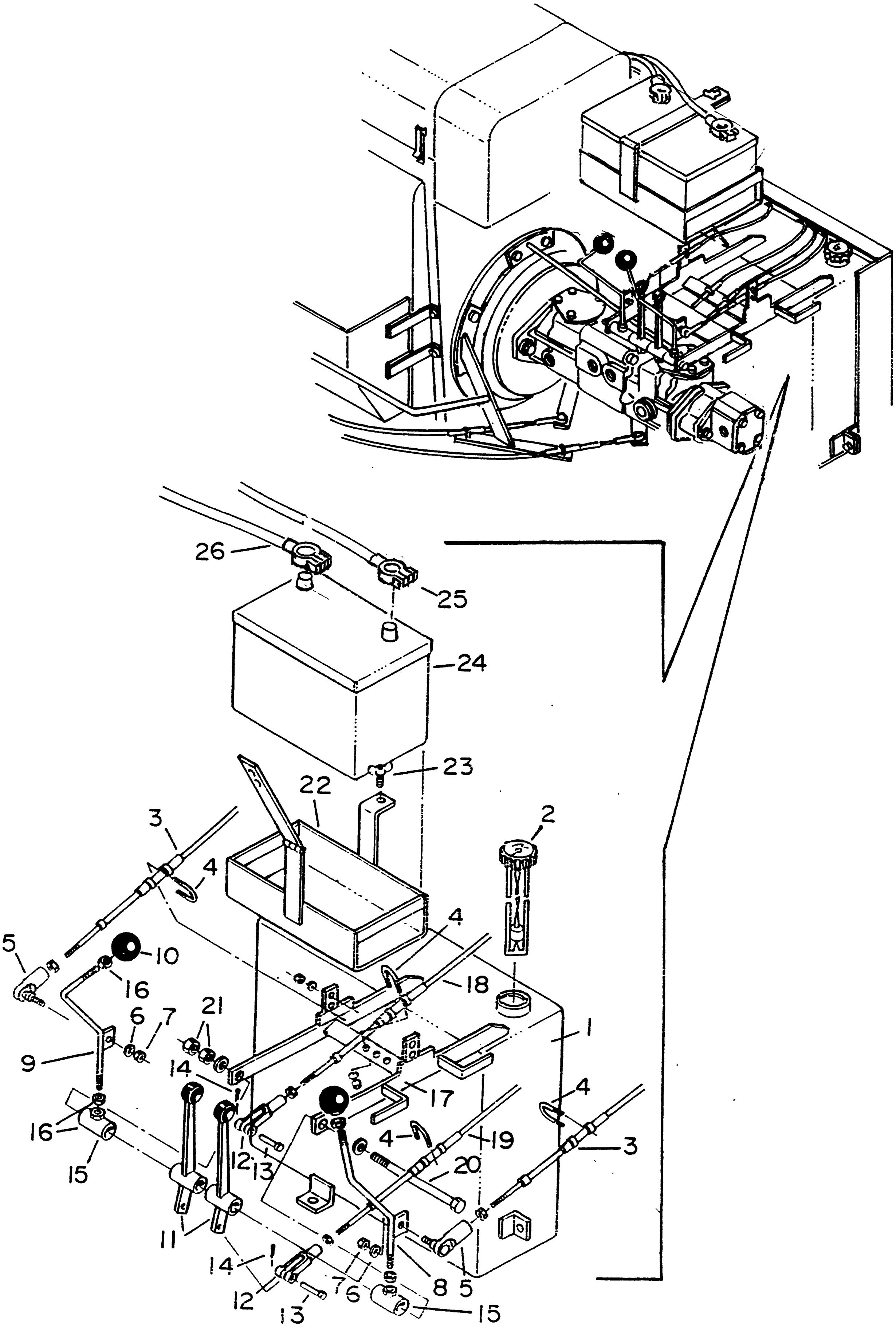


MAIN VALVE BANK

ITEM No. 1

MAIN VALVE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	910050	Valve, Main	
2	910060	Handle, Vertical	
3	910070	Handle, Horizontal	
4	901009	Valve, Relief (Main)	
5	910052	Section, Valve (Augers) (Detented)	
6	910054	Section, Valve (Cylinders) (Spring Return)	
7	910055	Cover, Inlet	
8	910056	Cover, Power Beyond	
9	850099	Pin, Clevis (1/4")	
10	901010	Link, Handle	
11	850100	Pin, Cotter (1/4")	
12	910058	Bracket, Handle (Aluminum)	
13	901007	Detent Kit (N/S)	
14			
15	900010	Pump, Spraydown (Flojet)	
16	900012	Bracket, Pump (Spraydown)	
17	920218	Coupling, Hose	
18	920219	Hose, (15' 5/16")	
19	920220	Handle, Spraydown	
20	920222	Tee, 3/8"	
21	920223	Nipple, 3/8"	
22	901210A	Tips, Spray Handle (N/S)	
		SEAL KITS FOR VALVES	
	910059	Kit, Seal (Spool) (Gresen V-20) K6125B	
	910062	Kit, Seal (Section) (Gresen V-20) K6121	
	910065	Kit, Seal (Relief Valve) (Gresen V-20)	



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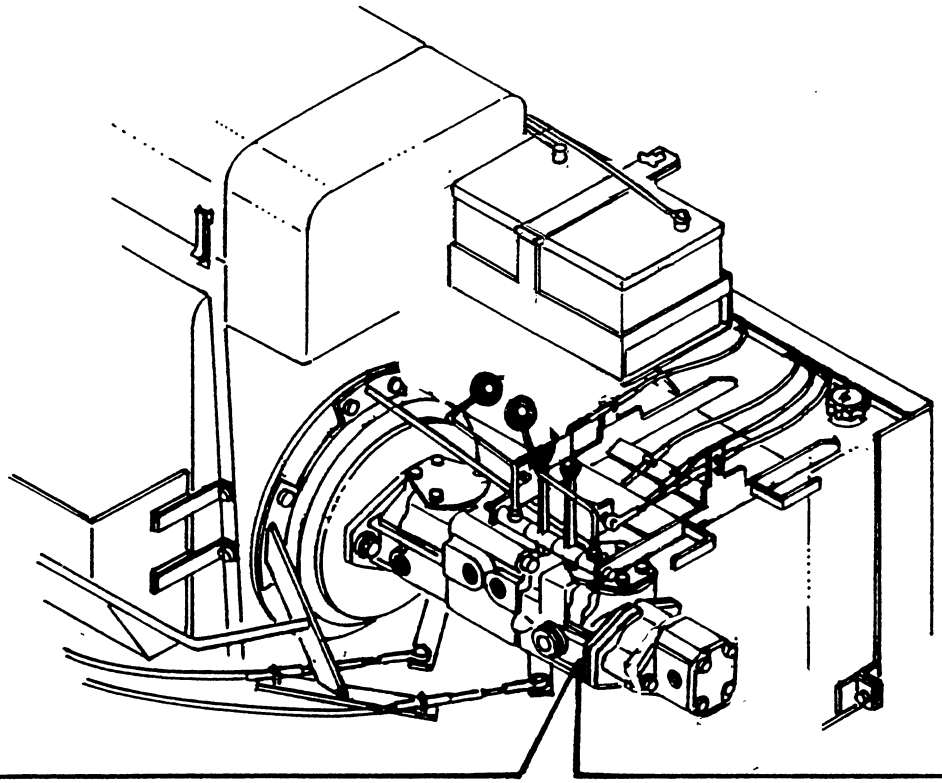
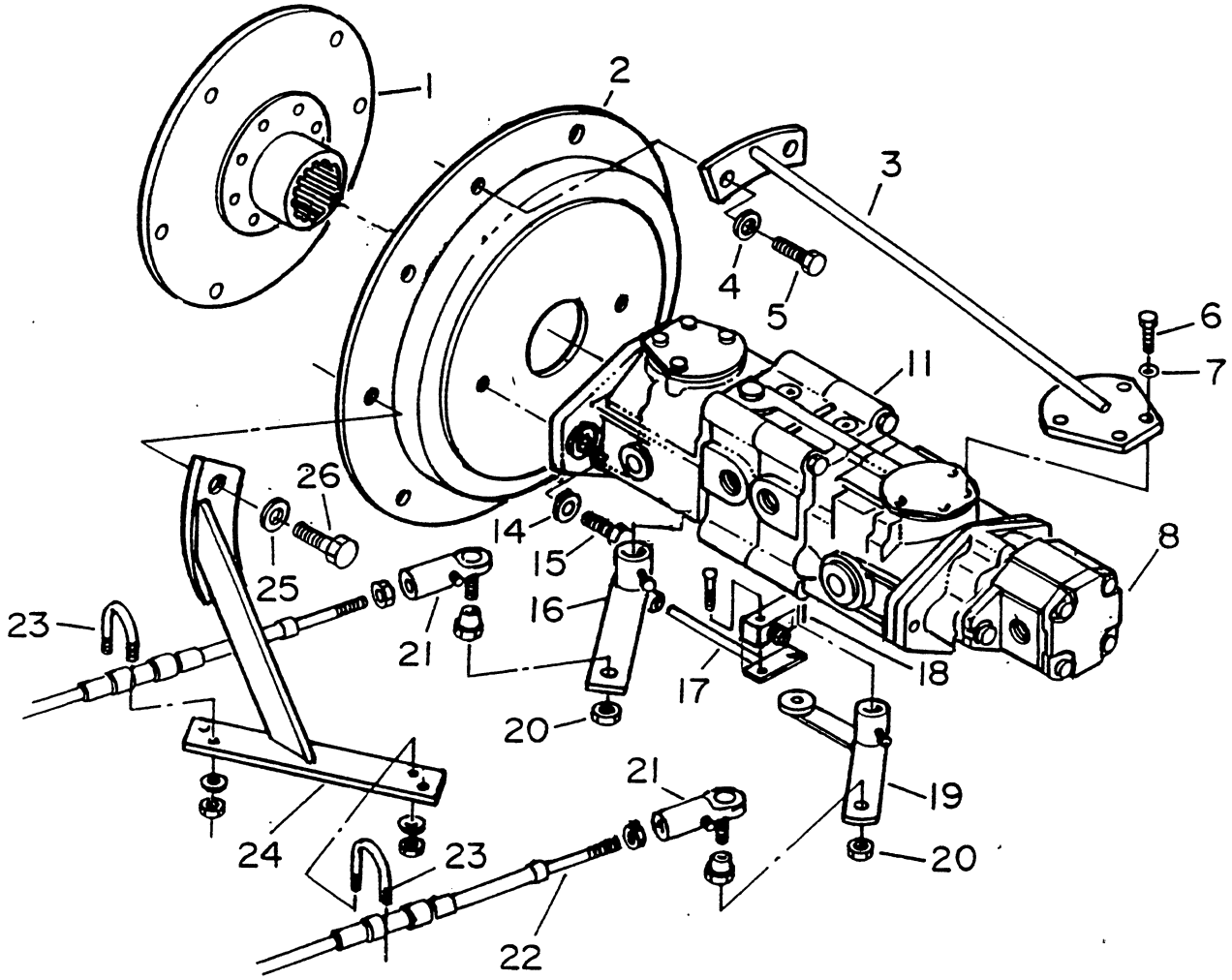
R/H DRIVE ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	910009	Fuel Tank, (Complete	
2	910010	Gauge, Fuel	
3	920140	Cable, R/H Drive (116" x 3") (Older Units With Quadco Take 116" x 5" Cable Part # 920110)	
4	900713	U-Bolts, 3/8"	
5	920090	Rodend, Spherical With Stud, 3/8" Fine Thread	
6	920072	Lockwasher, 3/8"	
7	920093	Nut, 3/8"	
8	920230	Handle, (R/H) (Lee-Boy)	
9	920228	Handle, (L/H) (Lee-Boy)	
10	920225	Knobs, Round	
11	920210	Handles, (Right Extension) (Right Auger) (Casted)	
12	350050	Clevis, Yoke 1/4"	
13	850099	Pins, (1/4")	
14	910057	Pin, Cotter	
15	350054	Pivot, Handle	
16	350055	Nuts, 1/2"	
17	350057	Bracket, R/H Drive	
18	920140	Cable, R/H Auger (116" x 3") (9' Machine only)	
18A	920120	Cable, R/H Auger (104" X 3") (8' Machine only)	
19	920130	Cable, R/H Extension (123" x 3") (9' Machine only)	
19A	920140	Cable, R/H Extension (116" x 3") (8' Machine only)	
20	920145	Rod, For R/H Drive Handle (5/8")	
21	920147	Nuts, Jam (5/8")	
22	920149	Box, Battery	
23	920070	Bolt, (3/8") Wing	
24	920152	Battery	
25	800076	Cable, (-) (Battery)	
26	800072	Cable, (+) (Battery)	

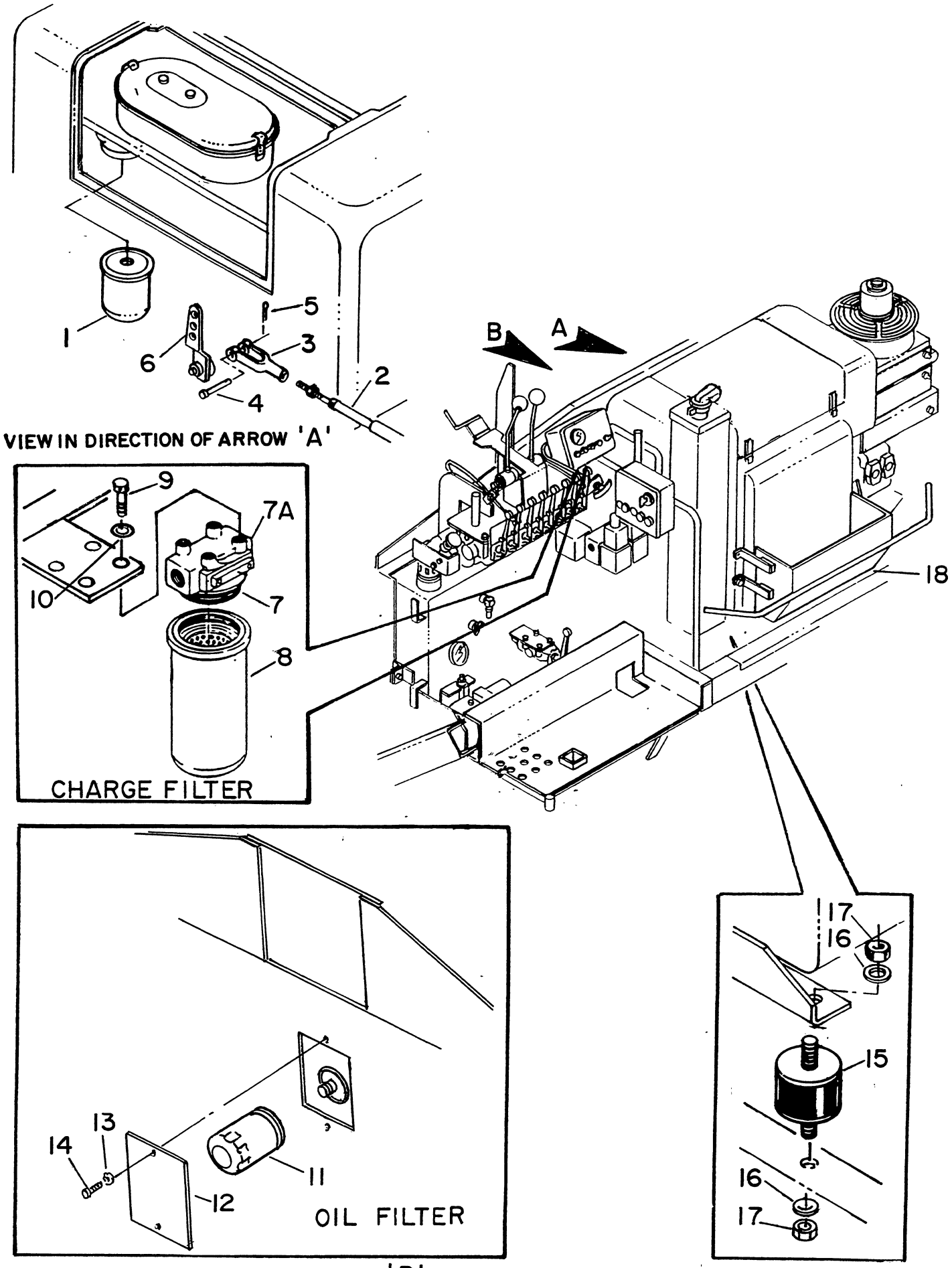


PUMP COMPONENTS



PUMP COMPONENTS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	320170	Coupling, Inner Drive	1
2	320200	Cover, Pump Plate	1
3	320224	Brace, Pump (Sunstrand)	1
4	320226	Washer, Lock	2
5	320227	Bolt	2
6	320228	Bolt	8
7	320229	Washer, Lock	8
8	320232	Pump, Auger & Cylinders (Sunstrand Double Variable Volume W/Single Piggyback)	1
9	320234	Kit, Rebuild (Main Pump) (N/S)	1
10	320235	O-Ring, (Piggyback to Main Pump) (N/S)	1
11	320237	Pump, L & R Drive (Sunstrand)	1
12	320239	Seal, Front (Sunstrand) (N/S)	1
13	320241	O-Ring, Front (Sunstrand) (N/S)	1
14	320242	Washer	2
15	320243	Bolt	2
16	320245	Arm, Left Drive	1
17	320246	Arm, Safety Switch	1
18	900022	Switch, Safety (Neutral) (New Style)	1
	900020	Switch, Safety (Neutral) (Old Style)	1
19	900025	Arm, Right Drive	1
20	900027	Nut	2
21	920090	Rodend, Spherical With Stud	2
22	920124	Cable, Pump (88" x 3")	2
23	900713	U-Bolt, (3/8")	2
24	920125	Bracket, Pump Cables	1
25	320226	Washer, Lock	2
26	320227	Bolt	2
27	320233	Seal Kit, (Rebuild) (Sunstrand Single Piggyback Pump) (N/S) (B21120-0040K)	1

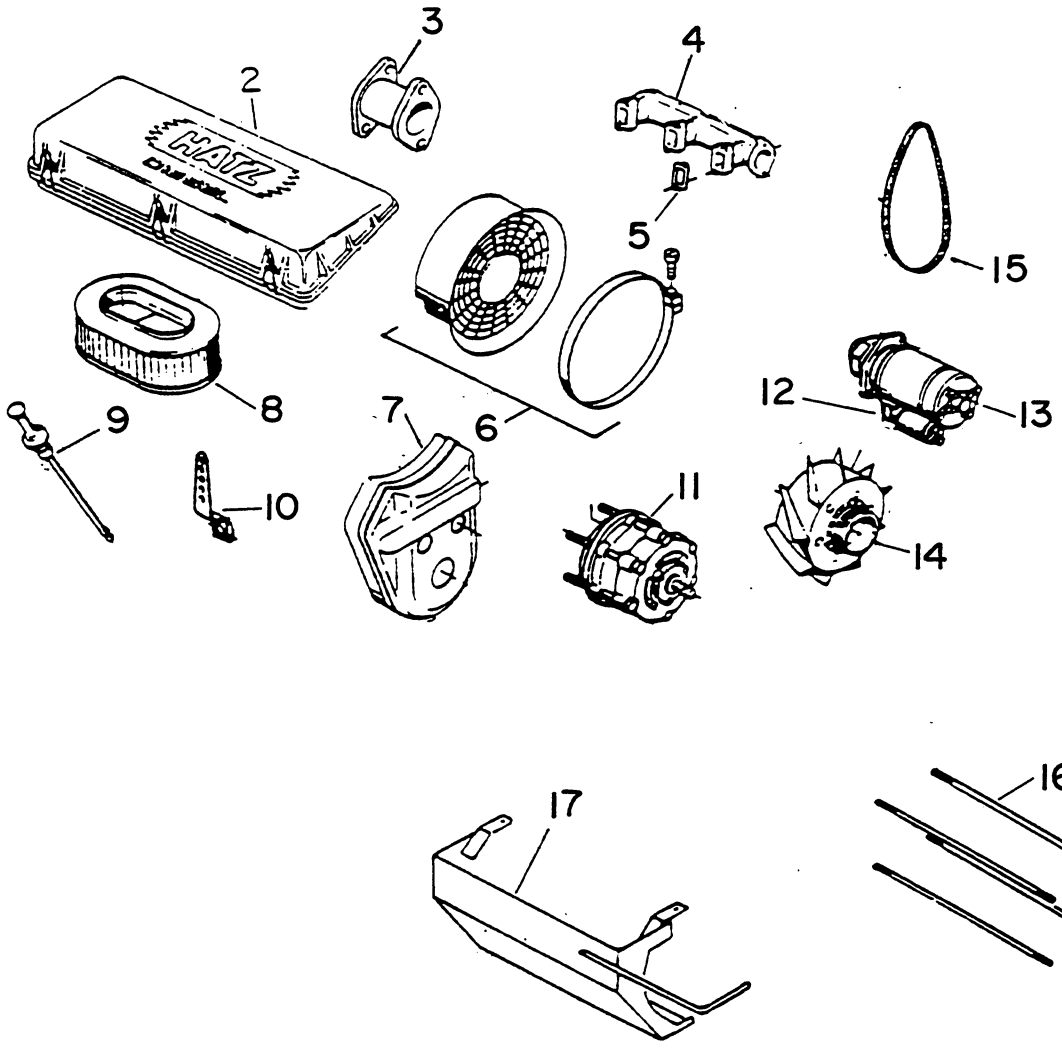


VIEW IN DIRECTION OF ARROW 'A'

VIEW IN DIRECTION OF ARROW 'B'

FILTER LOCATION & ACCESSORIES (HATZ)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	310080	Filter, Fuel (Hatz)	1
2	920160	Cable, Throttle 8' (36" x 3") (T-Handle)	1
		(All 8'-1000 with Hatz Takes 36")	
2A	920185	Cable Throttle 9' (42") All 9'-1000 with Hatz takes 42")	
3	350050	Clevis, Yoke (1/4")	1
4	850099	Pin, Clevis (1/4")	1
5	910057	Pin, Cotter (1/16")	1
6	350056	Arm, Adjustment	1
7	290010	Filter, Head (For Charge Filter) (Must buy complete assembly)	1
		When ordering this part use part #290025	
7A	290012	Gauge, Head	1
8	290030	Filter, Hydraulic (Charge)	1
8A	290025	Assembly, (Complete) Hydraulic Filter With Head (Items 7 & 8)	1
9	290032	Bolt 3/8" x 1"	4
10	290034	Washer 3/8"	4
11	310070	Filter, Oil	1
12	310075	Cover, Access Oil Filter	1
13	290032	Washer, Lock 3/8"	2
14	290034	Bolt 3/8" x 1"	2
15	320140	Mount, Engine (Hatz)	4
16	320142	Washer, Lock (metric)	4
17	320144	Nut (metric)	4
18	320112	Shield, Heat	1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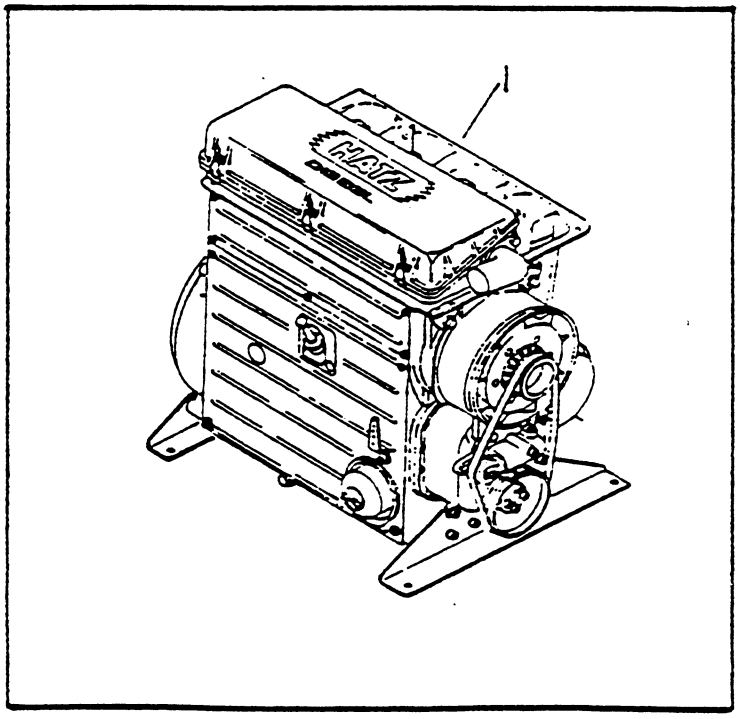
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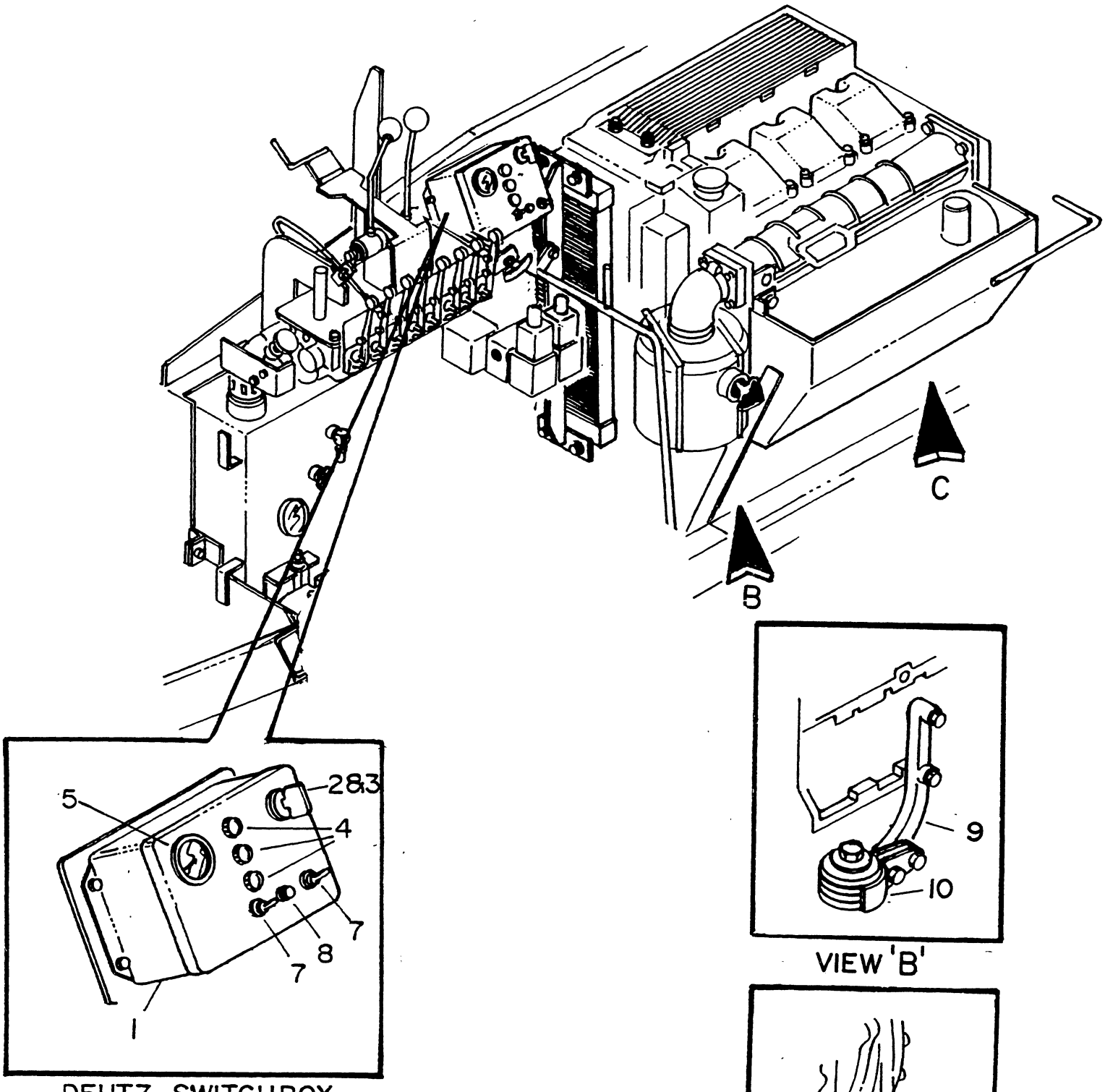
ENGINE COMPONENTS (HATZ)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	320002	Engine, Hatz Diesel (Need Serial No.) 2M40L	1
2	320100	Cover, Filter (Specify 2, 3 or 4 Cylinder)	1
3	320131	Pipe, Exhaust Extension	1
4	320250	Manifold, Exhaust (Specify 2, 3, or 4 Cylinder)	1
5	320260	Gasket, Manifold	A/R
6	320070	Shroud, Upper Belt	1
7	320080	Shroud, Lower Belt	1
8	310060	Element, Air	1
9	320110	Stick, Dip	1
10	320120	Lever, Throttle	1
11	320300	Alternator, Hatz	1
12	320280	Solenoid, Starter	1
13	320270	Starter	1
14	320290	Blower	1
15	320090	Belt, Blower	1
16	320150	Brace, Pump (Vickers)	4
17	320112	Shield, Heat	1
18	320004	Hatz, Silent Pack 2 Cylinder	1



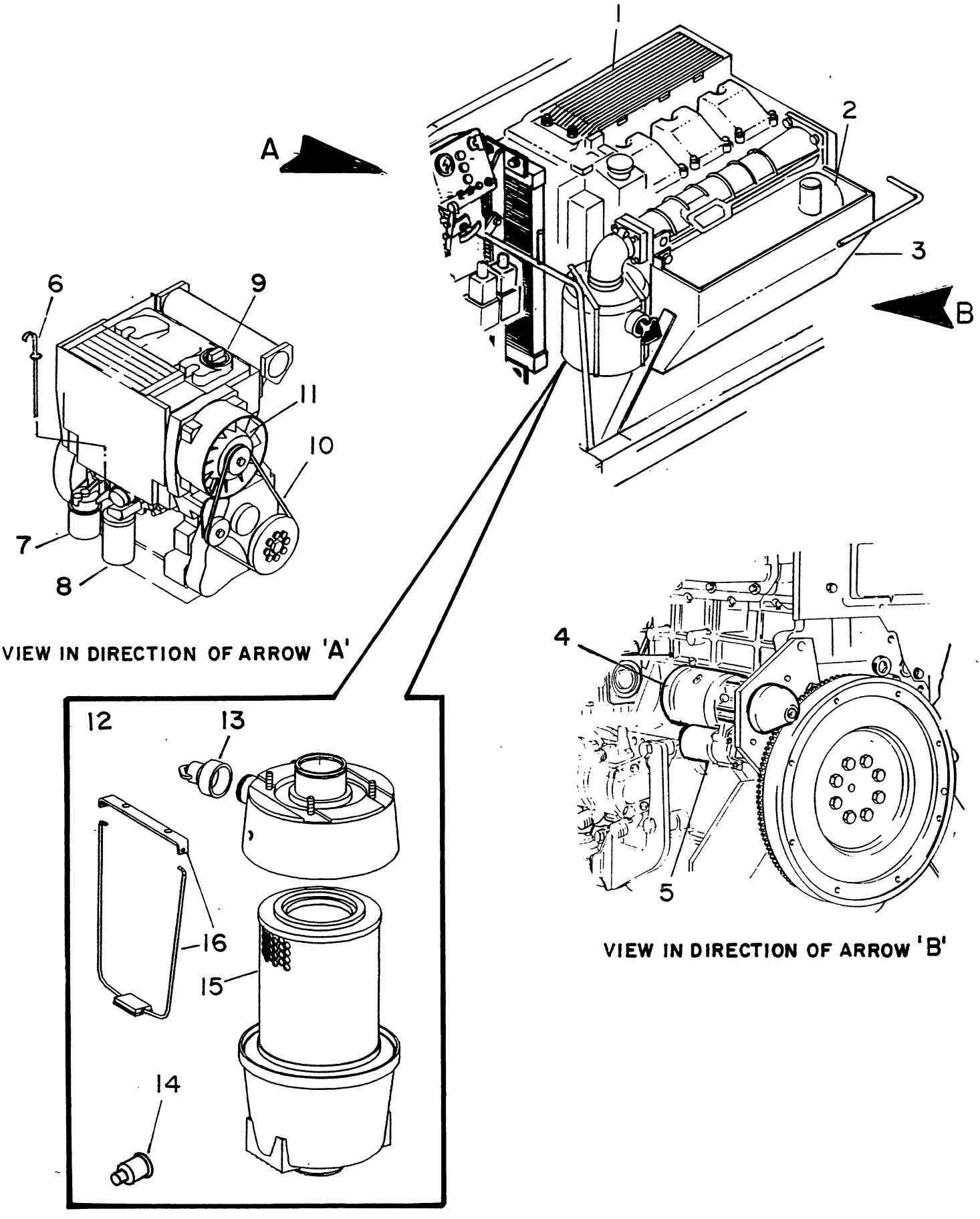
DEUTZ SWITCHBOX

VIEW 'B'

VIEW 'C'

DEUTZ COMPONENTS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	900154	Dash, Complete	
2	900156	Switch, Deutz	
3	900158	Key, Deutz	
4	900160	Light, Idiot	
5	900130	Meter, Hour	
6			
7	500040	Switch, 2-Speed & Spraydown	
8	900120	Light, 2-Speed	
9	900127	Arm, Motor Mount	
10	900129	Mount, Rubber (Deutz)	
11	900126	Plate, Motor Mount	
12	920150	Cable, Throttle (Deutz)	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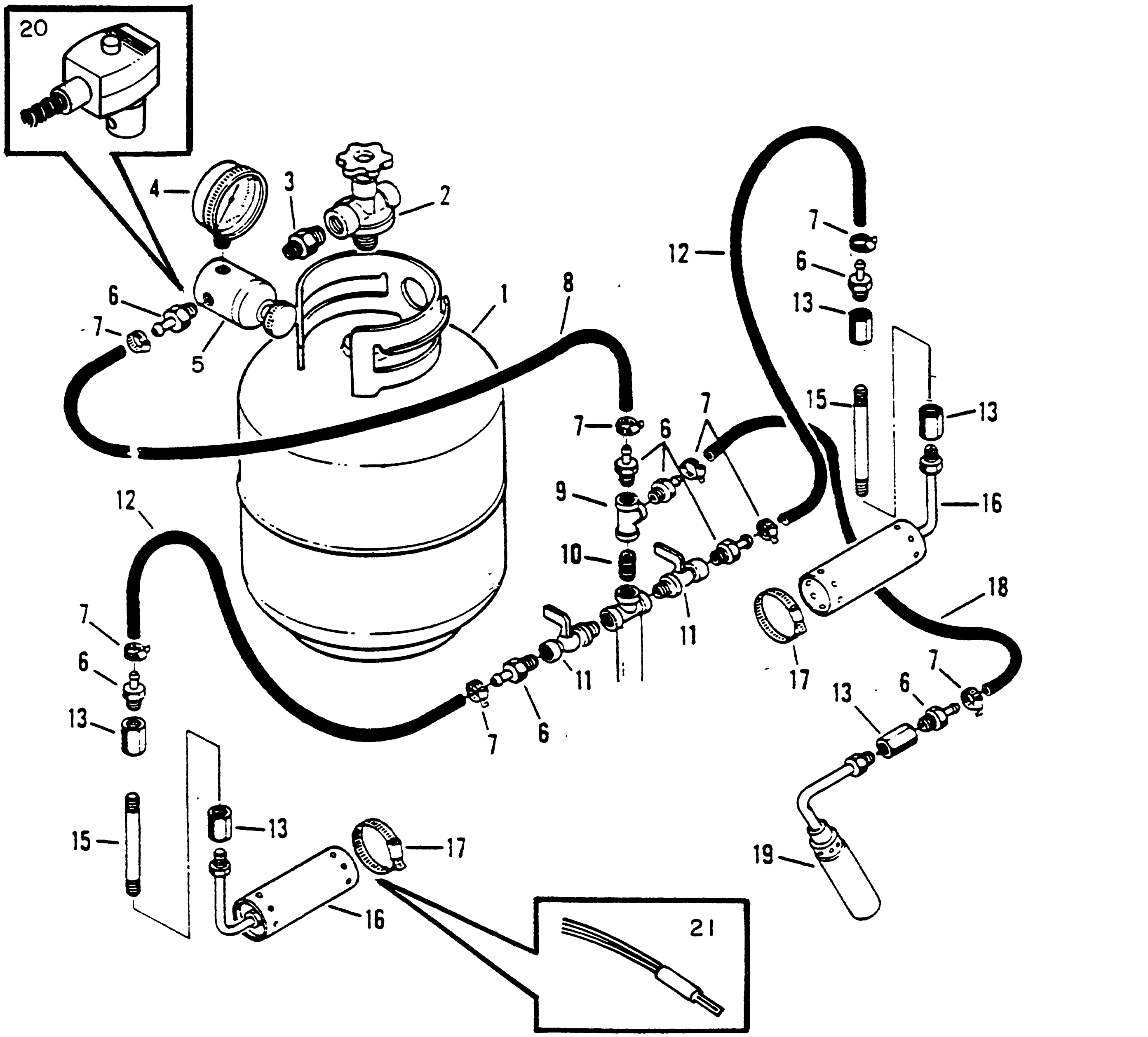
VIEW IN DIRECTION OF ARROW 'B'

DEUTZ ENGINE COMPONENTS

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	950012	Assembly, Air Cleaner	1
13	950014	Cap,(Rubber)	1
14	950016	Gauge, Pop-Off	1
15	950000	Filter, Element	1
16	950018	Bracket, Hold-Down	2
17	950021	Horn, Air Breather (N/S)	
		NOTE: ANY OTHER ENGINE COMPONENTS CALL IN PART NUMBER OUT OF ENGINE PARTS BOOK THAT CAME WITH MACHINE.	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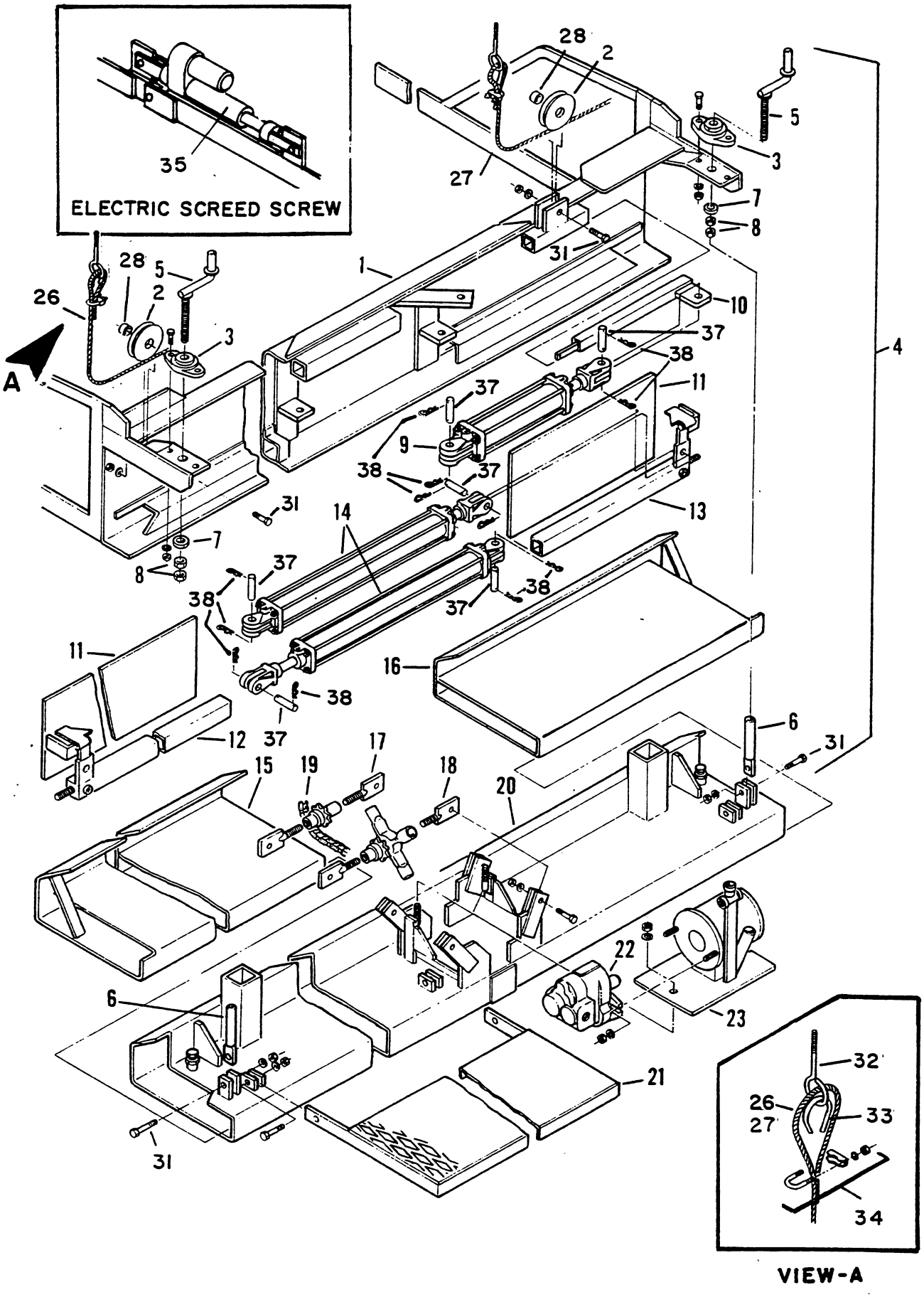
PROPANE HEATER ASSEMBLY & AUTOMATIC IGNITORS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	230010	Tank, Propane (Complete)	1
2	230020	Valve, Propane Tank (N/A Comes With Tank)	N/A
3	230030	Adaptor, P.O.L. (N/A Comes With Regulator)	N/A
4	230110	Gauge, Gas Pressure	1
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
14			
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


ELECTRIC SCREED SCREW
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SCREED BACK ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	900731	Screed Back Assy. W/O Cylinder (N/S) (Complete) 9' - 1000	1
1	900730	Screed Back Assy. (Complete With Cylinders) 9' - 1000	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.)	N/A
6	800404	Screw Receiver (N/A) (Must Buy Complete Screw Assy.)	N/A
7	870071	Spacer	2
8	870080	Nut	4
9	870090	Hydraulic Cylinder, Screed Lift (3" x 10" (Old Style)	1
9A	870091	Hydraulic Cylinder, Screed Lift (2 1/2" X 12") Serial No. 1570 and above) (New Style)	1
10	870102	Guide Arm, Screed Lift (Old Style)	1
10A	870103	Guide Arm, Screed Lift (Used with 2 1/2" X 12" Cylinder) (New Style)	1
11	870112	Guide Plate, Screed Extension	2
12	870122	Guide Arm, Screed Extension L/H	1
13	870132	Guide Arm, Screed Extension R/H	1
14	870140	Hydraulic Cylinder, Screed Extension 2 1/2" x 30" (8' - 1000 & 8000 Models)	2
	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	900725	Screed, Complete (1000) (9' 2" x 17")	1
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
30	900728	Screed, Complete (8') - 1000B (8' 0" x 17")	1
31	870279	Bolts, Shoulder (For Pulley)	2
32	870284	Eyebolt, 6"	2

(Continued Next Page)

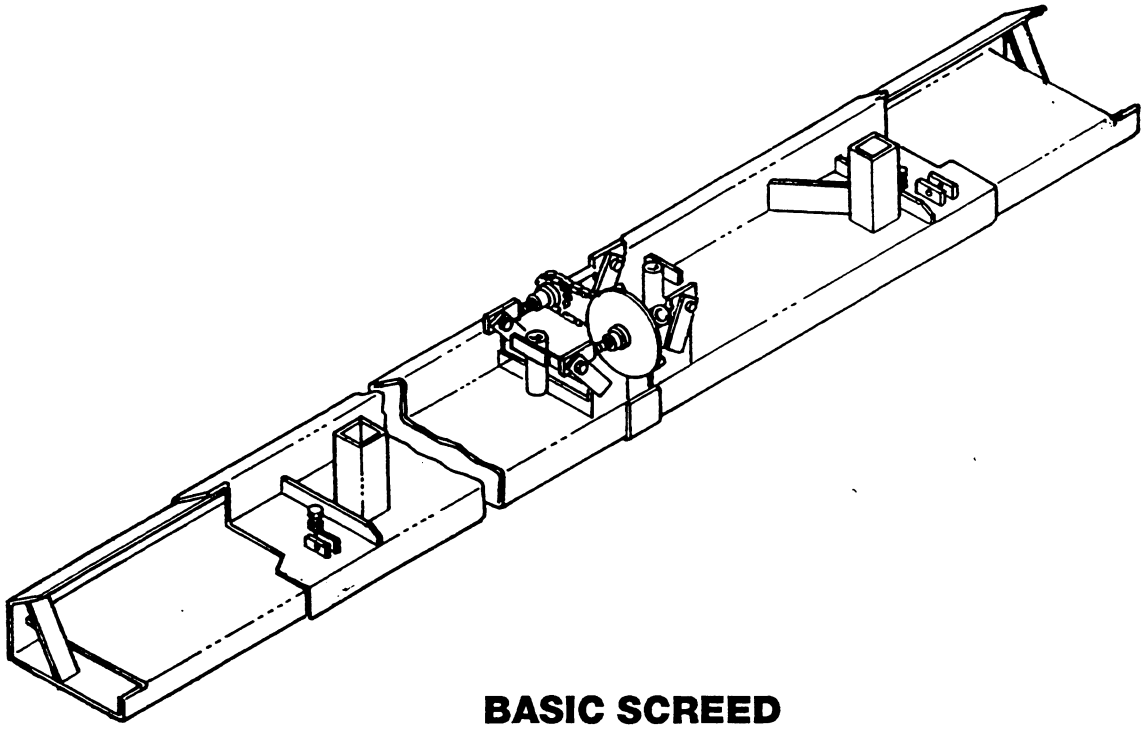
ITEM NO.	PART NO.	DESCRIPTION	QTY.
33	870286	Thimble, 3/8"	4
34	870289	U-Bolt, 3/8"	4
35	870302	Screw, Electric	2
36	870212	Walkboard, (8')	2
37	870305	Pins, Cylinders	6
38	870307	Clips, Pins	6
		ACCESSORIES	
	900738	Strike-off Plates (6")	AR
	900739	Strike-off Plates (1')	AR
	900740	Strike-off Plates (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
	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)	

***NEED MODEL & SERIAL NUMBER WHEN PLACING ORDER ***

COMPLETE SCREED ASSEMBLIES NOT SHOWN ON THIS PAGE REFER TO PAGE # 39

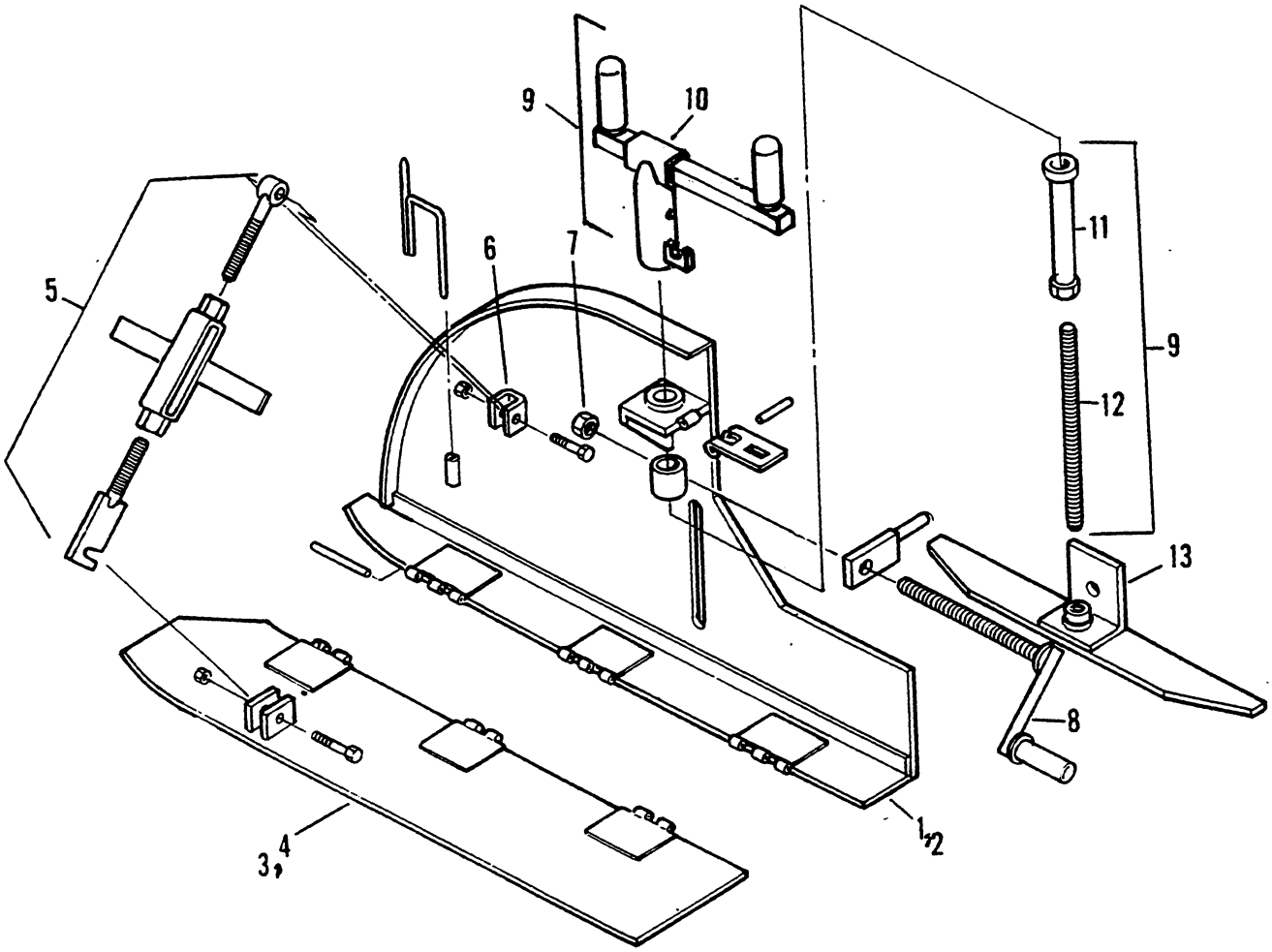
900734	800 Screed Assembly (Complete W/Cylinders)	1
900735	800 Screed Assembly (Complete W/O Cylinders)	1
900736	900 Screed Assembly (Complete W/Cylinders)	1
900737	900 Screed Assembly (Complete W/O Cylinders)	1
900730	9' - 1000 Screed Assembly (Complete W/Cylinders)	1
900731	9' - 1000 Screed Assembly (Complete W/O Cylinders)	1
900732	8' - 1000 Screed Assembly (Complete W/Cylinders)	1
900733	8' - 1000 Screed Assembly (Complete W/O Cylinders)	1

*** NOTE: COMPLETE SCREED ASSEMBLIES CONSISTS OF EVERYTHING FROM PULL-ARMS TO WALKBOARDS. (LESS VIBRATOR & BURNERS) ***



BASIC SCREED

ITEM NO.	PART NO.	DESCRIPTION	QTY.
		* NEED MODEL & SERIAL NUMBER WHEN PLACING ORDER *	
		ACCESSORIES	
	900726	700 Screed Assembly (8' 0" x 15")	1
	900723	800 Screed Assembly (8' 2" x 15")	1
	900724	900 Screed Assembly (9' 2" x 15")	1
	900725	1000 Screed Assembly (9' 2" x 17")	1
	900728	8' - 1000B Screed Assembly (8' 0" x 17")	1
	900729	8' - 1000 Screed Assembly (8' 2" x 17")	1
	870206	8' - 1000B & 8000 Extendable Screed (8' 0" x 17")	
	870205	Kit, Stabilizer (Screed)	1
	870207	Plate, Wear (Extendable Screed)	
	870210	9'-1000 Screed, Extendable (9'2" x 17")	1
		NOTE: SCREEDS CONSIST OF INSERTS AND CROWN & VALLEY	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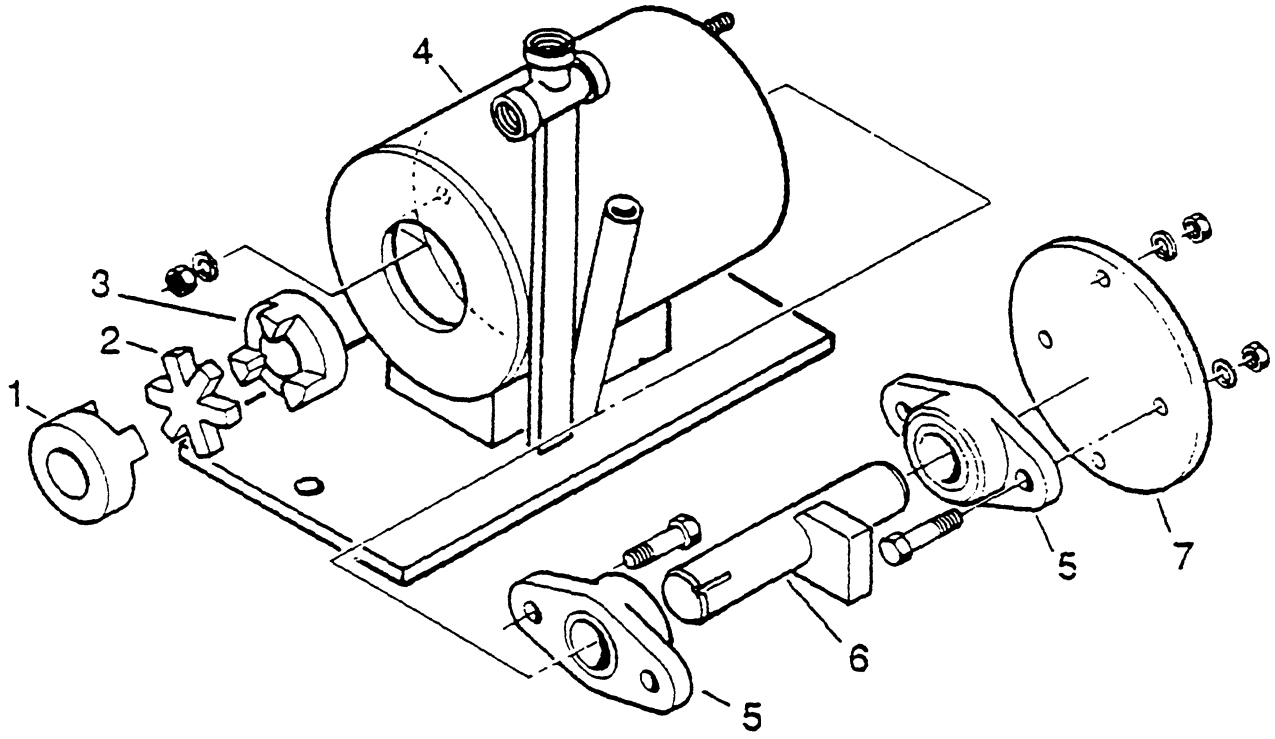
JOINTER ASSEMBLY

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 (Use Part #890092)	N/A
11	890111	Receiver, Depth Screw (Use Part #890092)	N/A
12	890121	Screw	1
13	890132	Bracket, Depth Screw control	1
14	870276	Boot Rubber (handles) (N/S)	A/R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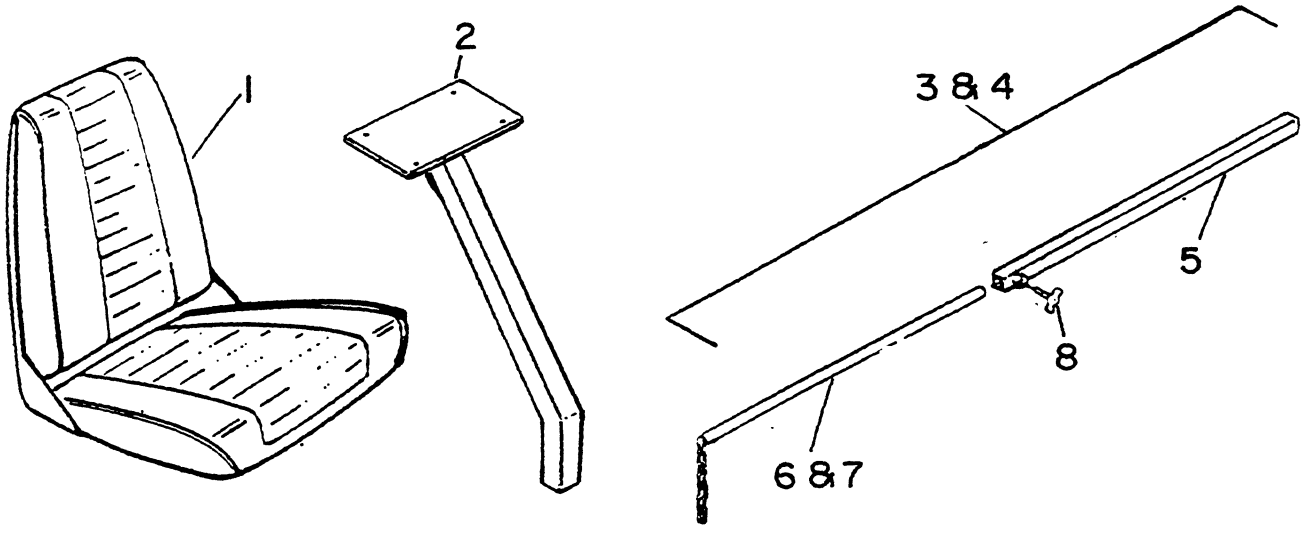
VIBRATOR ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	800417	Vibrator Assembly (Includes 1-7)	
1	280030	Coupling, Vibrator Motor (5/8")	1
2	280040	Insert, Coupling (J54N)	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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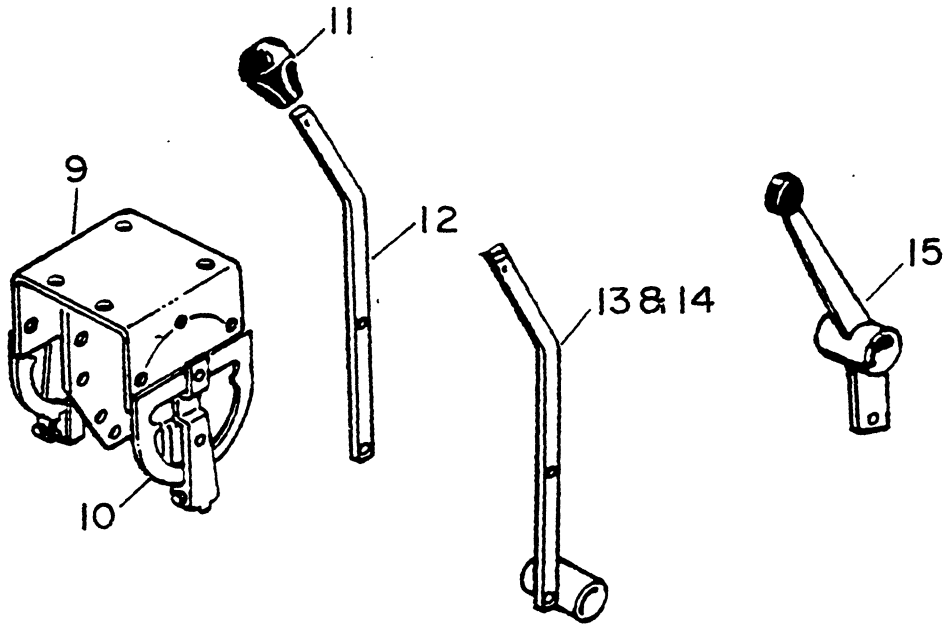
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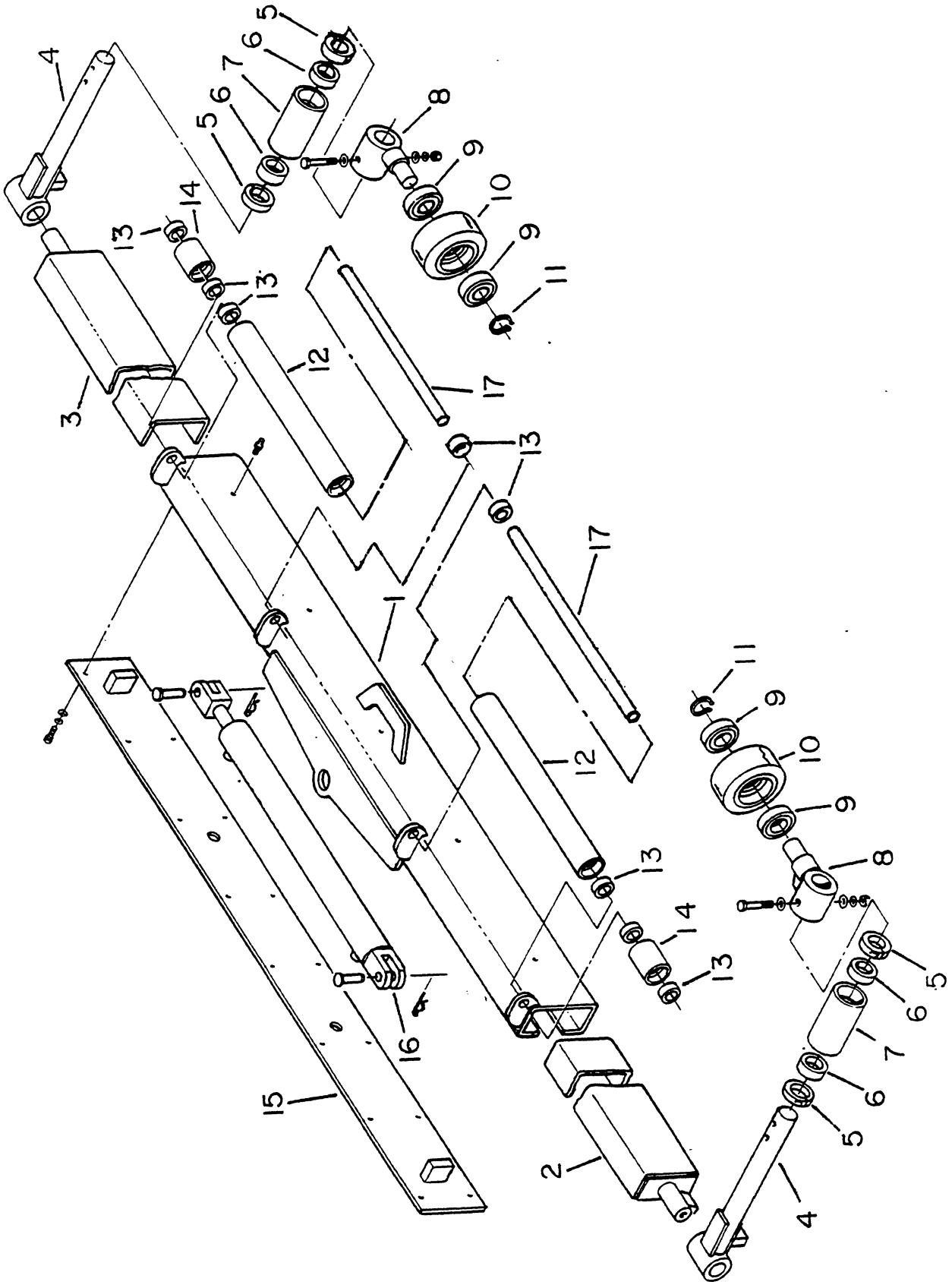
SEAT, GUIDE BAR, QUADCO
CONTROL PLUS CONTROL LEVER

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
9	920172	Control, Quadco (Specify Left or Right)	1
10	920175	Plate, Pressure Adjusting	1
11	920180	Knob, Lever	1
12	920192	Lever, Arm	1
13	920202	Lever, Pivot (Right)	1
14	920204	Lever, Pivot (Left)	1
15	920210	Lever, R/H) (Auger & Extension)	2
		CABLES QUADCO	
	920110	116" x 5" Control Cable R.H. Drive N/S	2
	920120	104" x 3" Pump Cable 9' Mach.	2
	920124	88" x 3" Pump Cable 8' Mach.	2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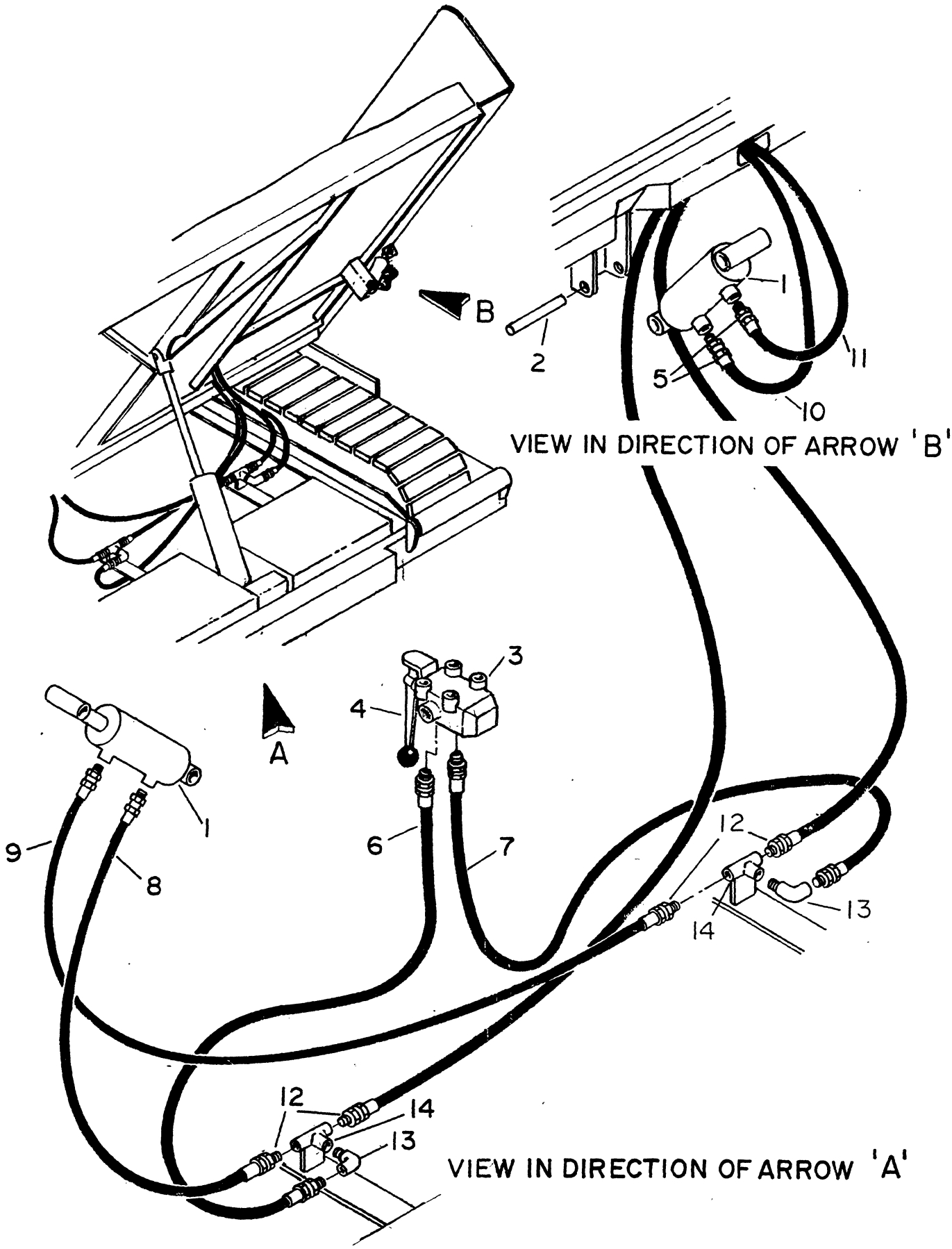
TRUCK HITCH ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	930010	TRUCK HITCH ASSEMBLY	1
1	930015	Support, pivot bar	1
2	930020	Arm Extension, R/H	1
3	930025	Arm Extension, L/H	1
4	930030	Guide, wheel pivot arm	2
5	930035	Collar, lock	4
6	810070	Bushing, tire roller	4
7	930040	Roller	2
8	930045	Axle, guide wheel	2
9	930050	Bearing, guide wheel	4
10	930055	Wheel, guide	2
11	850040	Ring, snap	2
12	810102	Roller, bumper	2
13	810110	Bearing, roller	8
14	930060	Roller Extension, bumper	2
15	930065	Cover, back panel	1
16	930070	Cylinder, arm extension	1
17	930075	Shaft, bumper roller	2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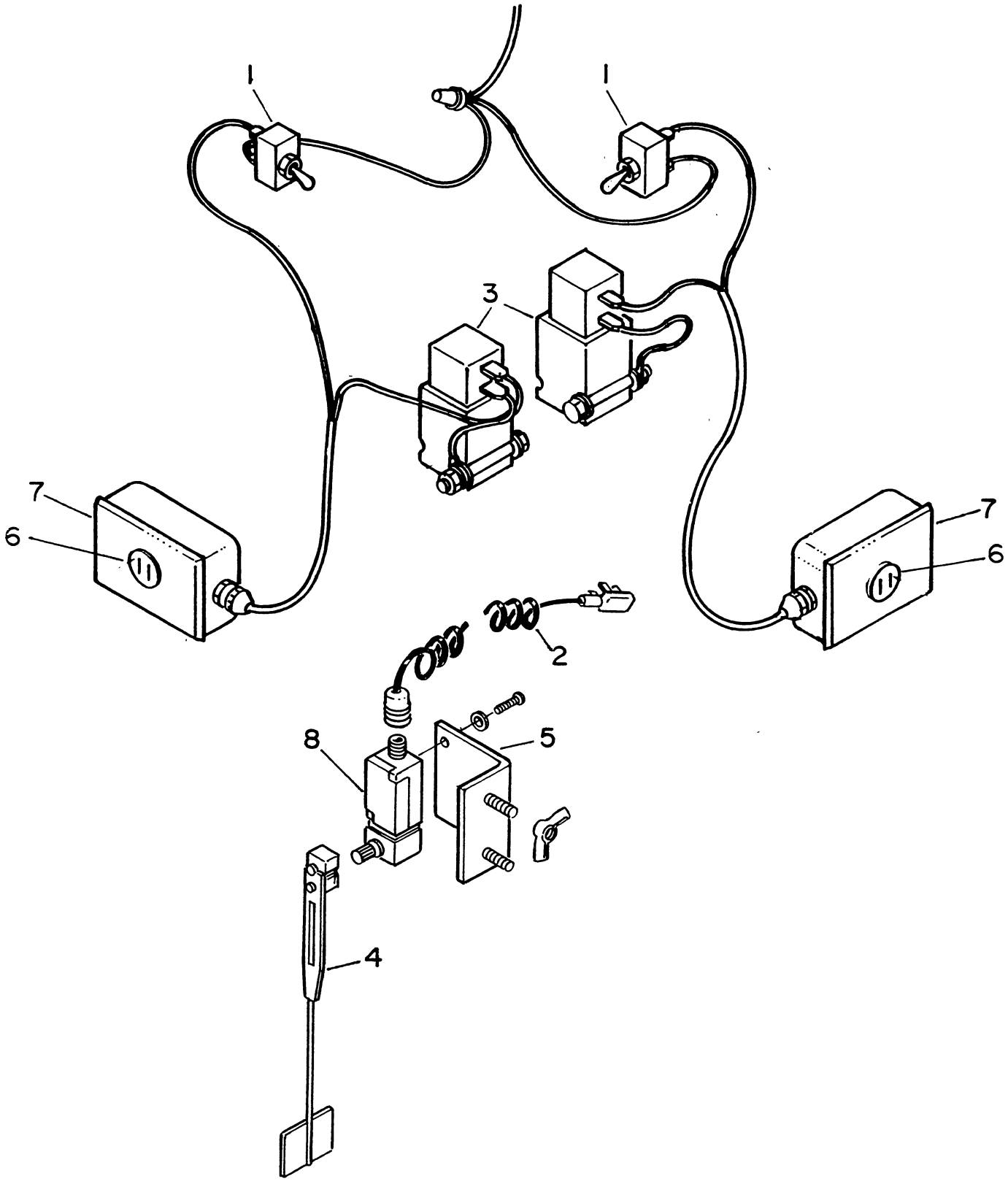
HYDRAULIC HOPPER SIDEWINGS
8' MODELS ONLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	910145	Cylinder, Hopper Wings (2" x 4") (1000B Models)	2
2	910146	Pins, Cylinder (Bottom & Top)	
3	910120	Valve	
4	910130	Handle	
5	910148	Fittings	
6	910149	Hose (Valve to Tee)	
7	910151	Hose (Valve to Tee)	
8	910152	Hose (Bottom Cylinder to Tee) (Right)	
9	910153	Hose (Top Cylinder to Tee) (Right)	
10	910154	Hose (Bottom Cylinder to Tee) (Left)	
11	910155	Hose (Top Cylinder to Tee) (Left)	
12	910156	Fittings	
13	910157	Elbows	
14	910158	Tees	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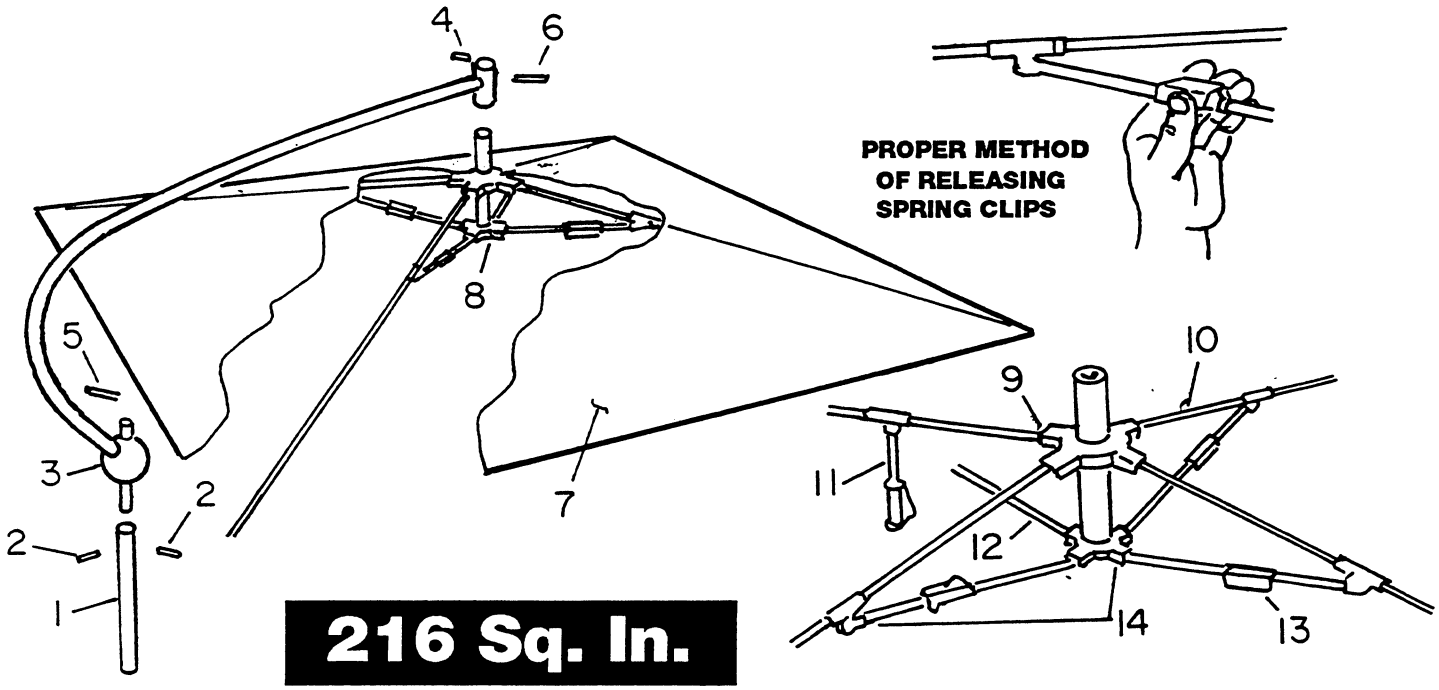
SAFETY DECALS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	941000-0	Decal Kit, (Complete) (Consists of small decals and big orange stripes)	1
	941000-00	Decal Set, (Consists of small decals; Does Not Include big orange stripes)	1
1	940001-1	Located on upper R/H of Hopper closest to fuel filler neck	1
2	940001-2	Located 2" down from top edge of fuel tank	1
3	940001-3	Located 1/2" down and 1/4" in from Rigget edge of Hopper both sides	2
4	940001-4	Located on Hydraulic Reservoir 1/2" down from edge and centered to fill neck	
5	940001-8	Located on wide Flange as shown	
6	940001-7	Located ahead of main valve bank controls on Forward/Reverse Support	
7	940001-12	Located just above decal item 6	
8	940001-9	Located as shown both sides	
9	940001-6	Located just above Screed both sides	
10	941003-2	Located 1 1/4" up from bottom edge of sidewing and 1 1/2" in from front edge (Specify right or left)	1
11	941000-20	Located as shown	2
12	940003-1	Located on side of fuel tank	1
13	941000-21	Located on Throttle Support Bracket	1
14	940002-1	Located on center of Exhaust Heat Shield and centered as shown in front view	
15	940003-3	Located on and centered on hose cover both sides	2
16	940002-4	Located on flat surface just ahead of Flight Screw	
17	940002-5	Located on both sides under decal item 3 and on Exhaust Heat Shield	3
18	940002-7	Located on Exhaust Heat Shield on 2-Speed Gearbox or Torque Hub	1
19	940004-1	Located on both cut off ends	2
20	940004-18	Located on Face Plate ahead of Control Levers	
21	940004-3	Located on the Drive Controls with the "N" by the Notch, showing position of neutral	
22	940004-5	Located on face plate ahead of right hand drive control	
23	940002-3	Located to top front center of tool box lid	
24	940002-6	Located on Flange Support of Vibrator Valve	
25	940002-9	Located on both sidewings and above main valve decal	
26	940002-10	Located as shown	
27	940002-11	Located as shown	
28	940002-12	Located as shown	
29	940002-13	Located as shown	
30	940002-14	Located as shown	

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.

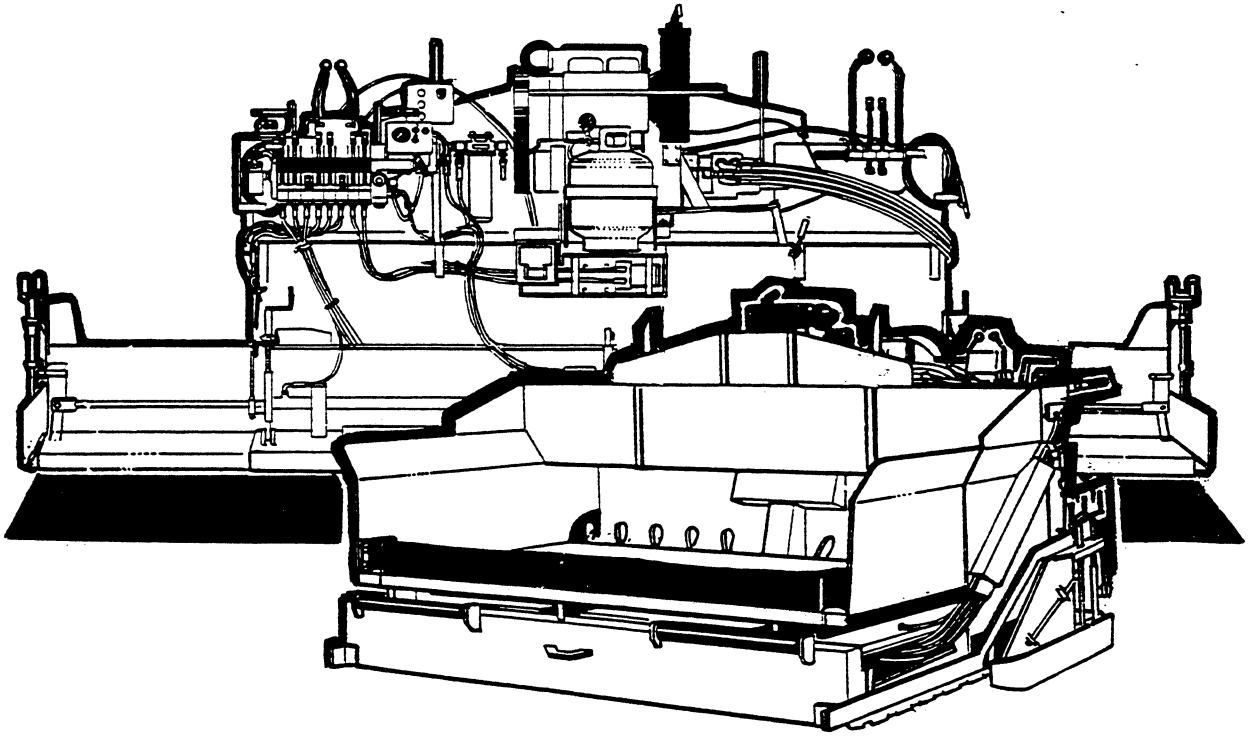
* Part No. varies with color.

UMBRELLA

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

LeeBoy

OPERATORS MAINTENANCE AND PARTS MANUAL



SUPPLEMENT MANUAL
1000C MODEL PAVER
INCLUDING
UPDATE OF 1000B AND 1000C

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

SUPPLEMENT MANUAL 1000 C
WITH BB SCREED

INDEX

PAGE

SETTING B B SCREED TO PAVE 1
SETTING SCREED END GATES 2
SETTING SCREED EXTENSIONS 3
MANUAL LIGHTING OF BURNERS 3
RUBBER TIRE BRAKE OPERATION 4

PARTS

B B EXTENDABLE SCREED ASSEMBLY (REAR SECTION) 2
B B EXTENSION SCREED ASSEMBLY 4
B B SCREED ARM ASSEMBLY 6
B B PROPANE BURNER ASSEMBLY 8
BRAKE RUBBER TIRE 10
8' 1000 HOPPER WINGS 12
9' 1000 HOPPER WINGS 14

This supplement manual provides the difference between the 1000B and the 1000C pavers.

Adding a new screed to the 1000B known as the BB screed, an improved lifting device to that screed plus a minor change to the propane heater assembly are the only changes defining the 1000C paver.

This supplement also includes the latest engineering updates to the 1000B paver covering the hopper and hopper wings plus brakes for the rubber tire paver. These changes are also incorporated into the 1000C paver.

SETTING B B SCREED TO PAVE

The following procedure will assist in getting the screed ready to lay the desired mat whether positive, zero or negative crown. See figure **1**.

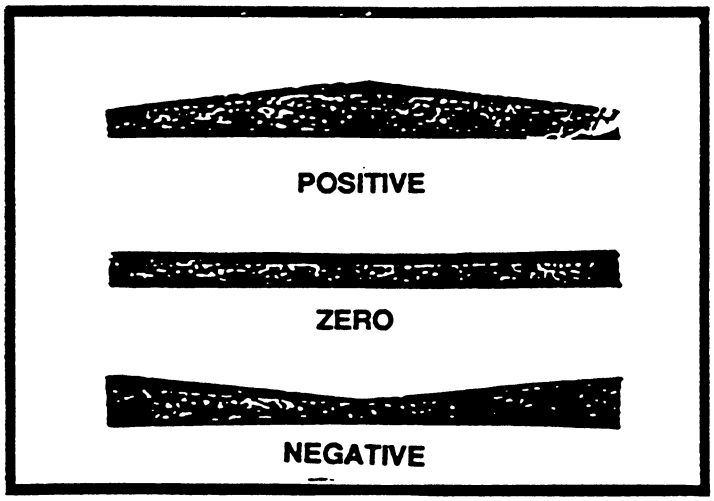


FIGURE 1

1. Move to the starting position.
2. Extend the screed to the desired width.
3. To get depth, set screed on starter blocks. See figure **2**.
4. Level screed with flight screws until neutral position is felt. (Neutral position is when the pressure on the flight screw is the same when screwing either clockwise or counter clockwise.)

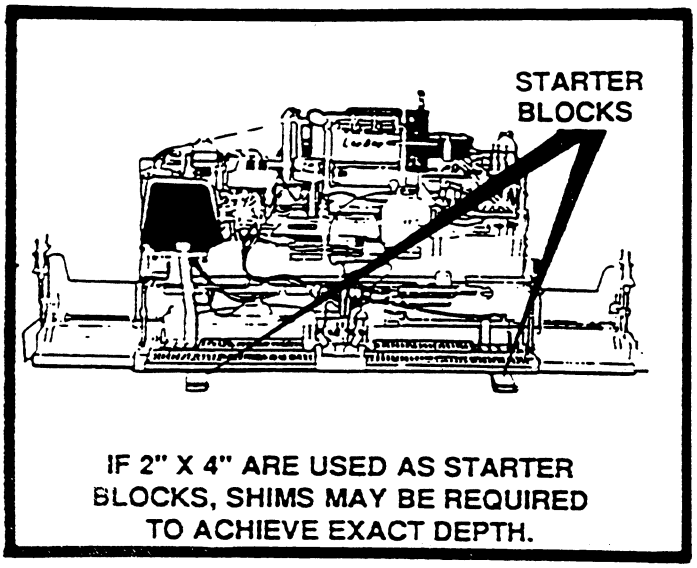


FIGURE 2

5. Push screed valve lever all the way forward into float position. This will take the hydraulic pressure from the cylinder, allowing screed to float. See figure **3**.
6. Turn flight screw about one complete turn clockwise.
7. To obtain the crown or valley desired, refer to figure **4** and loosen hex head nut. Remove crown handle and, depending on the requirement, push down for positive crown or pull up for negative valley.
8. There is a gauge located on rear of crown adjuster to indicate when screed is level. See figure **4**.

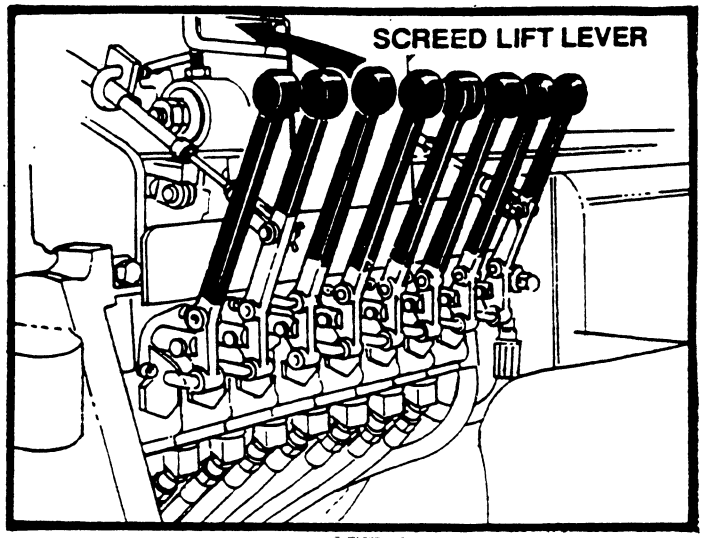


FIGURE 3

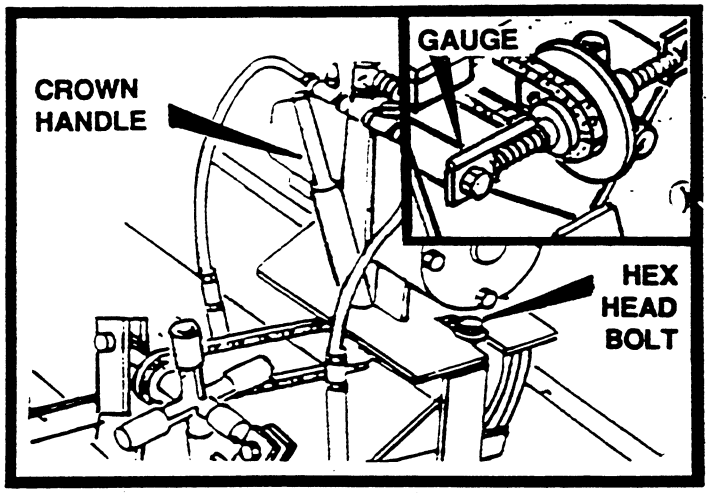


FIGURE 4

9. Set crown control. The screed plate is a one-piece unit which is actually bent to provide the required crown setting. See figures **1 and 5**.
10. To get exact crown or valley, measure the distance between a flat level surface to the center bottom portion of screed. See figure **5**. Make adjustments with crown and valley control.
11. Tighten hex head nut on vibrator securely before paving.

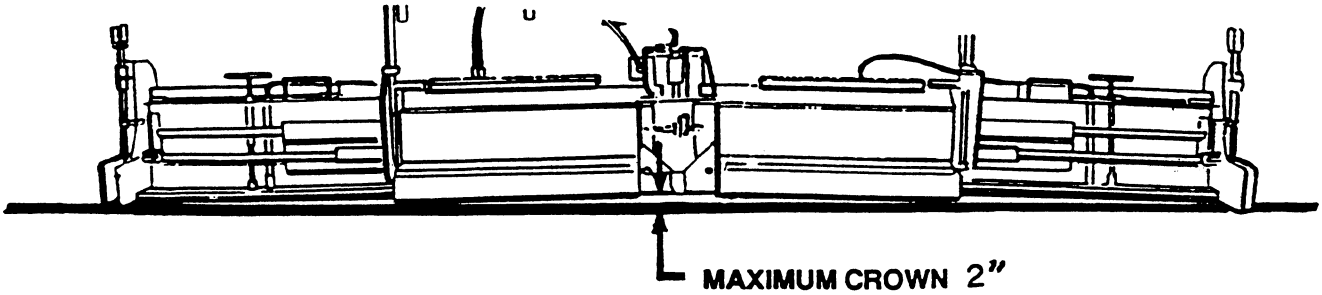


FIGURE 5

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 '0' 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.

SETTING SCREED END GATES

1. On first pass unlock depth screws and lower endgate to about 1/4" off desired depth. This should provide a nice square edge. See figure 6.

2. The scale located on each endgate will show proper setting or depth.

3. Tilt adjusters on endgate are to be set so front of endgate tilts down slightly when screed is lifted.

4. This will allow the endgate to set itself to grade.

NOTE
When paving, never let endgate carry the weight of the screed. This will cause screed compaction to vary and slickness.

5. During operation, if endgate start to dig in at front, adjust the tilt so the endgate tilts back.

6. When making a joint, endgate must set to '0' on scale or where it fits flush with bottom of screed.

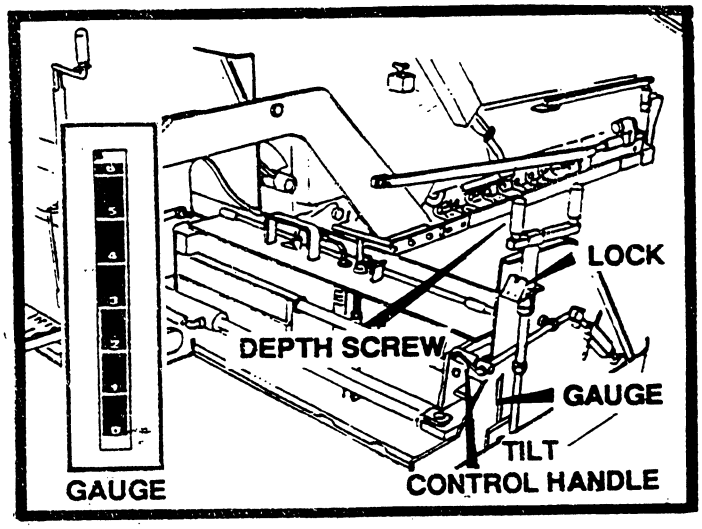


FIGURE 6

NOTE
When making a joint, spray fuel oil on runner shoe.

7. On first pass, leave about 6 to 8 inches of unrolled asphalt where joint is being made.

8. In laying a joint, if the joint looks too high or too low, adjust main flight screw on screed about one (1) round at a time and allow 4 to 5 ft. of travel to correct itself. (Too much adjustment up or down may cause a roller coaster effect.)

9. If making a cold joint, set endgate down about 1/4". This will give a nice even edge.

SETTING SCREED EXTENSIONS

The screed extensions should be heated before making adjustments with rachet. (Rachet shipped with machine, in tool box). When the adjustment is made, the pressure on the rear edge of extended screed is the same as on the rear edge of main screed. The result of making this adjustment will be a smooth mat the length of the screed.

1. Heat screed extension before making adjustment to extended width.

2. Adjust tilt on rear edge of extension by turning adjustment screw counter-clockwise. This is done to give the same amount of compaction on extension and slickness as main screed.

3. If drag occurs, then too much pressure is on the screed extension and the extension is carrying all the weight. Correct this by turning the adjustment screw clockwise until both the screed and the screed extension produce the same looking mat.

MANUAL LIGHTING OF BURNERS

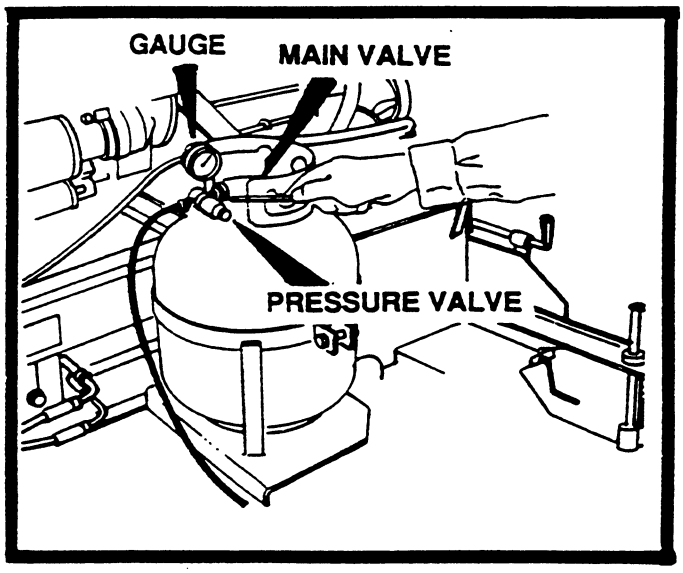


FIGURE 7

NOTE
Heating the screed helps prevent hot mix from sticking to the cold screed plate and produces a smooth, tight mat surface. 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 15 pounds to 6 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.

! CAUTION !

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

The process for lighting the burners manually is not difficult. The following procedure will provide the necessary steps in lighting the burners. It is important to remember that propane is a voluble gas and for this reason safety should be a major consideration.

CAUTION! CAUTION! CAUTION!

1. Turn off all burner valves. See figure **8.**

2. Turn main propane valve on and set regulator at 15 lbs. Refer to figure **7.**

3. Ignite burner with striker or lighter.

4. Hold ignitor burner at end of main burner. To light main burner, turn burner valve on. See figure **8.** (NEVER TURN BURNER VALVE ON UNLESS FLAME IS PRESENT.)

5. Repeat procedure in step 4 for opposite side.

6. The extension burners are held in position to the screed with a quick coupling connection. Remove the extension burner from quick coupling connector and light. See figure **9.**

7. Replace extension burner back into hole and on to quick coupling connector.

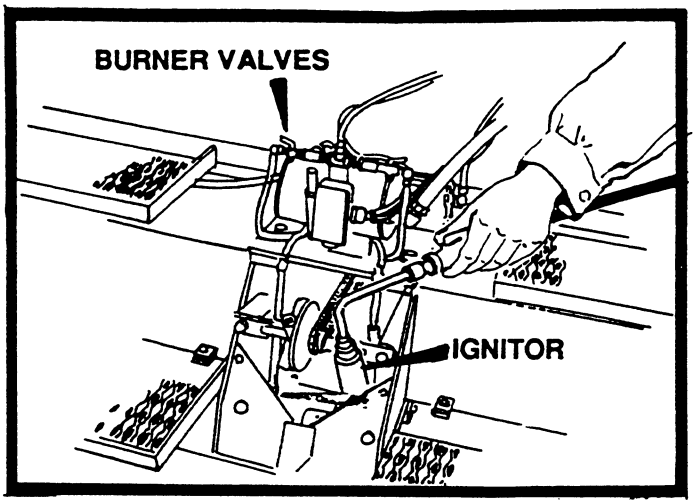


FIGURE 8

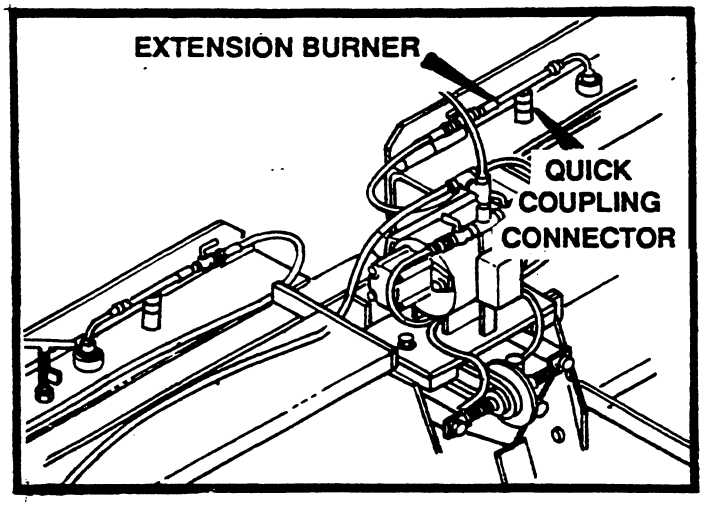


FIGURE 9

RUBBER TIRE BRAKE OPERATION

The large red light next to the instrumentation box will indicate when the brake is engaged. When the light is on, the brake is engaged and when the light is off, the brake is disengaged. To brake, lower the hopper until the paver slows down or stops. The light should then be on. Raising the hopper approximately 6" will release the brake turning the light off. See figure11; note that the brake switch can be adjusted up or down. Also, the braking bar has an adjustment. These two adjustments make it possible to set the brake so that the light comes on as the brake is engaged. WHEN MAKING THIS ADJUSTMENT OR ANY TIME YOU ARE REQUIRED TO WORK UNDER OR AROUND THE HOPPER WHILE IT IS IN THE UP POSITION, ALWAYS USE THE SAFETY PROP. Make it part of your daily routine to raise and lower the hopper, checking the brake and the brake light. **See figures 10 and 11.**

! CAUTION !

ALWAYS RELEASE THE BRAKE BEFORE MAKING ANY MOVEMENT WITH THE PAVER.

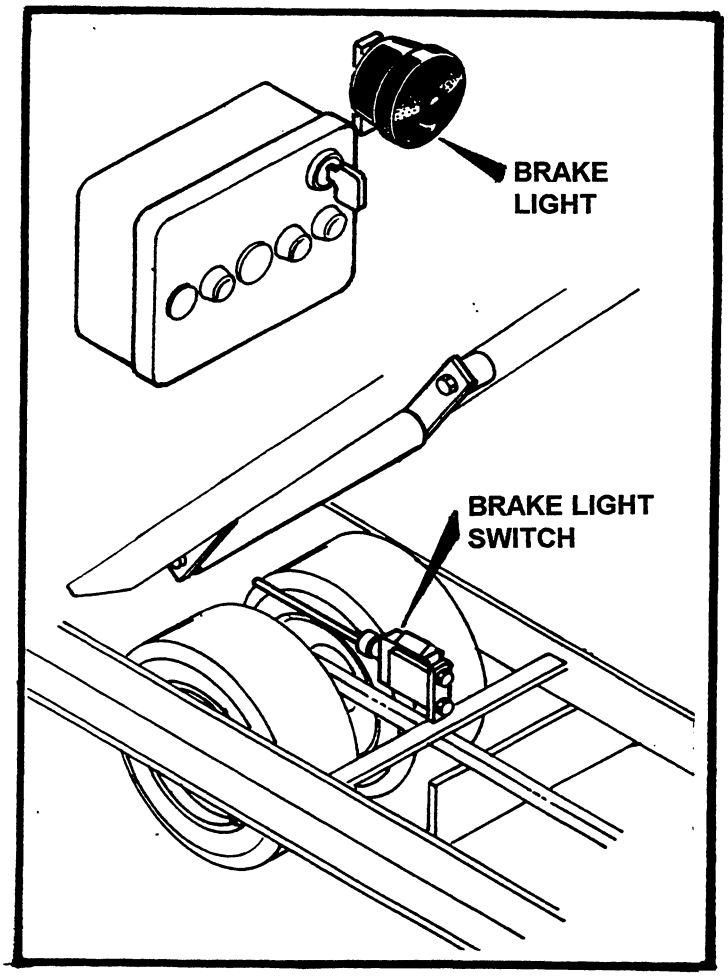


FIGURE 10

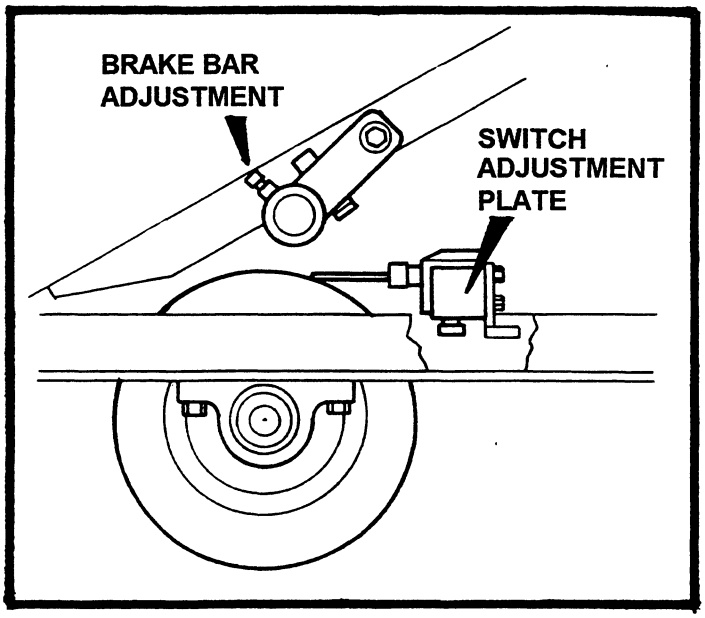


FIGURE 11

PARTS

B B EXTENDABLE SCREED ASSEMBLY (REAR SECTION) 2
B B EXTENSION SCREED ASSEMBLY 4
B B SCREED ARM ASSEMBLY 6
B B PROPANE BURNER ASSEMBLY 8
BRAKE RUBBER TIRE 10
8' 1000 HOPPER WINGS 12
9' 1000 HOPPER WINGS 14

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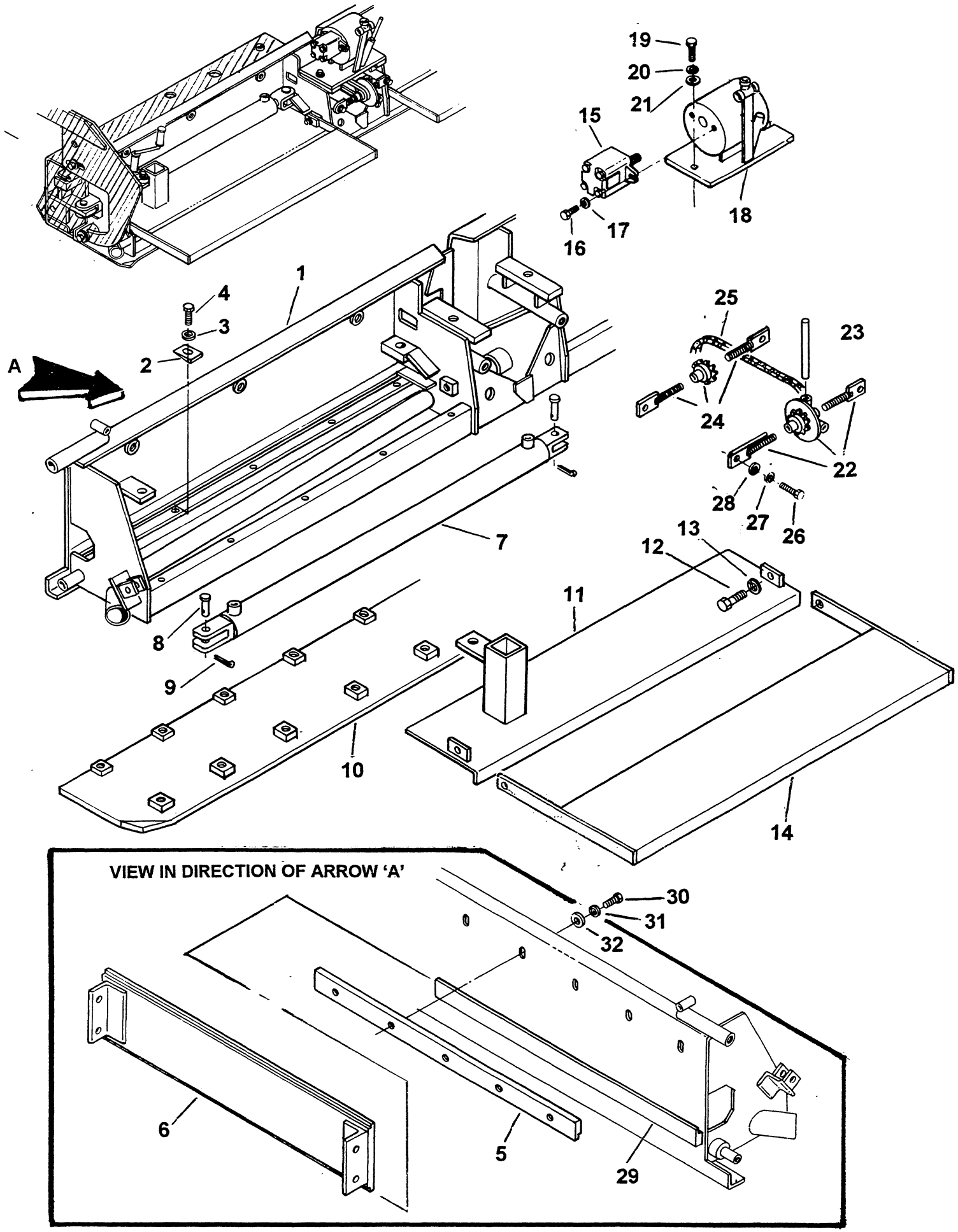
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VIEW IN DIRECTION OF ARROW 'A'
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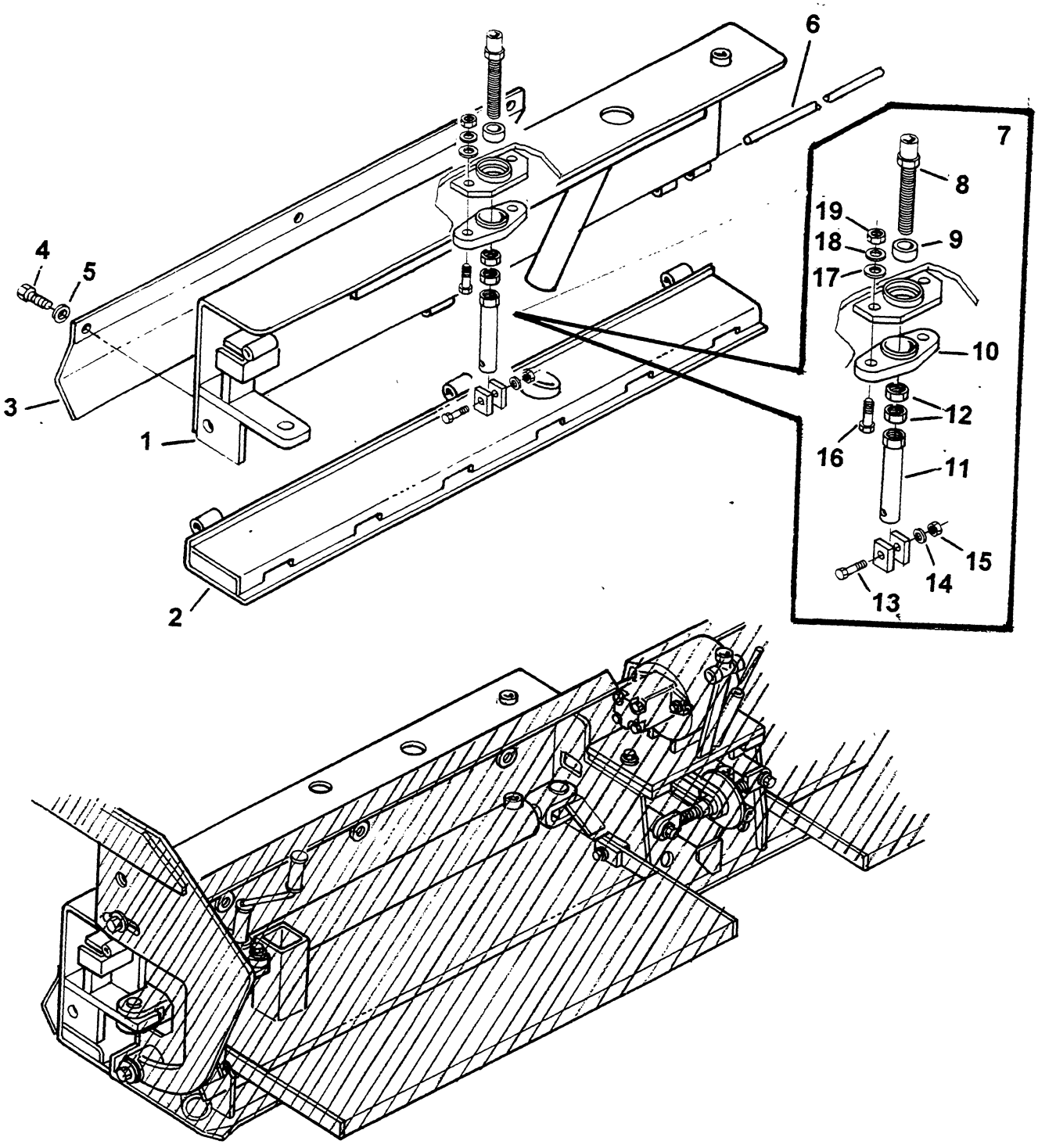
EXTENDABLE SCREED ASSEMBLY
(REAR SECTION)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
	851596	Screed Assembly (Complete) BB	1
1	851597	Screed, base	1
2	851025	Wedge, washer	20
3		Bolt, hex 3/8" x 3/4"	20
4		Washer, lock 3/8"	20
5	851298	Guide, top extension	2
6	851552	Slide, extension	2
7	870140	Cylinder, extension (2 1/2" x 30")	2
8	870305	Pin, cylinder	2
9	870307	Pin, cotter	2
10	851598	Wear Plate, main screed	1
11	851599	Lid, screed	2
12		Bolt,	2
13		Washer, lock	2
14	851554	Step	2
15	870232	Motor, hydraulic screed vibrator	1
16		Bolt, 7/16"	2
17		Washer, lock 7/16"	2
18	870232	Vibrator, screed (see page 46 for further breakdown)	1
19		Bolt, 5/8" x 1 1/4"	2
20		Washer, lock 5/8"	2
21		Washer, flat 5/8"	2
22	870182	Turnbuckle, crown & valley (rear)	1
23	851195	Handle, crank	1
24	870172	Turnbuckle, crown & valley (front)	1
25	870190	Chain, crown & valley	1
26		Bolt, 5/8" x 1 1/4"	2
27		Washer, lock 5/8"	2
28		Washer, flat 5/8"	2
29	851299	Guide, bottom extension (weld on)	2
30		Bolt - 1/2" x 1 1/4"	10
31		Lock Washer, 1/2"	10
32		Flat Washer, heavy 1/2"	10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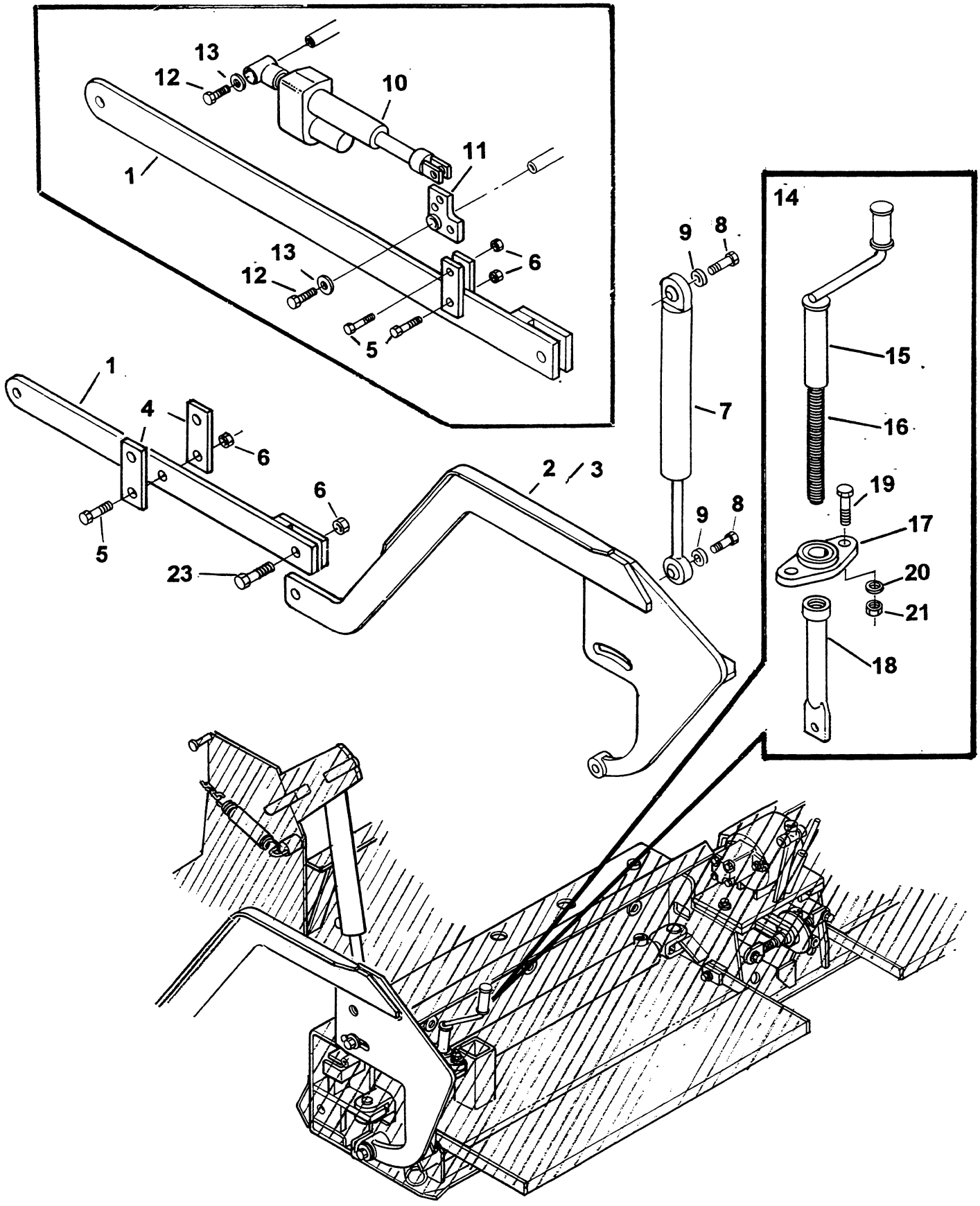
BB EXTENSION - SCREED ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	851600	BB Screed Extension Complete (left)	1
1	851601	BB Screed Extension Complete (right)	1
2	851602	Screed, lower extension (R.H. or L.H. specify)	1
3	851180	Guard, extension (R.H. or L.H. specify)	1
4		Bolt, 3/8" x 1"	3
5		Washer, lock 3/8"	3
6	851196	Shaft, extension	1
* 7	851603	Extension, adjustment screw	1
8	851603	Screw, with socket	1
9	851604	Bushing, flange bearing (1" to 3/4")	1
10	870030	Bearing, flange	1
11	851603	Receiver	1
12		Nuts, jam 3/4"	2
13	870279	Bolt, 1/2" shoulder	1
14		Washer, lock 3/8"	1
15		Nut, 3/8" lock	1
16		Bolt, 7/16" x 2"	2
17		Washer, flat 7/16"	2
18		Washer, lock 7/16"	2
19		Nut, hex 7/16"	2
* 7		Comes complete with Items 8, 11, & 12	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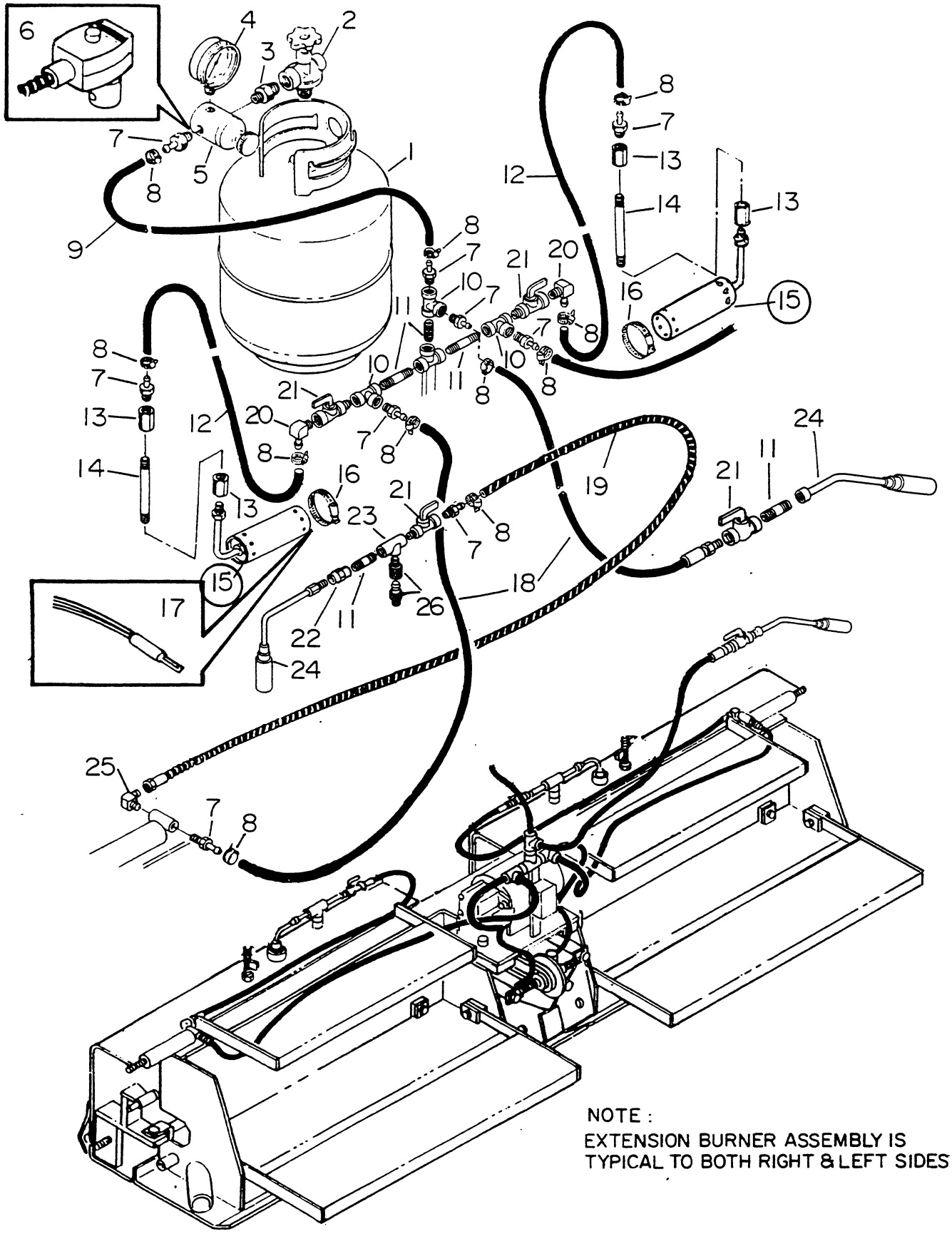
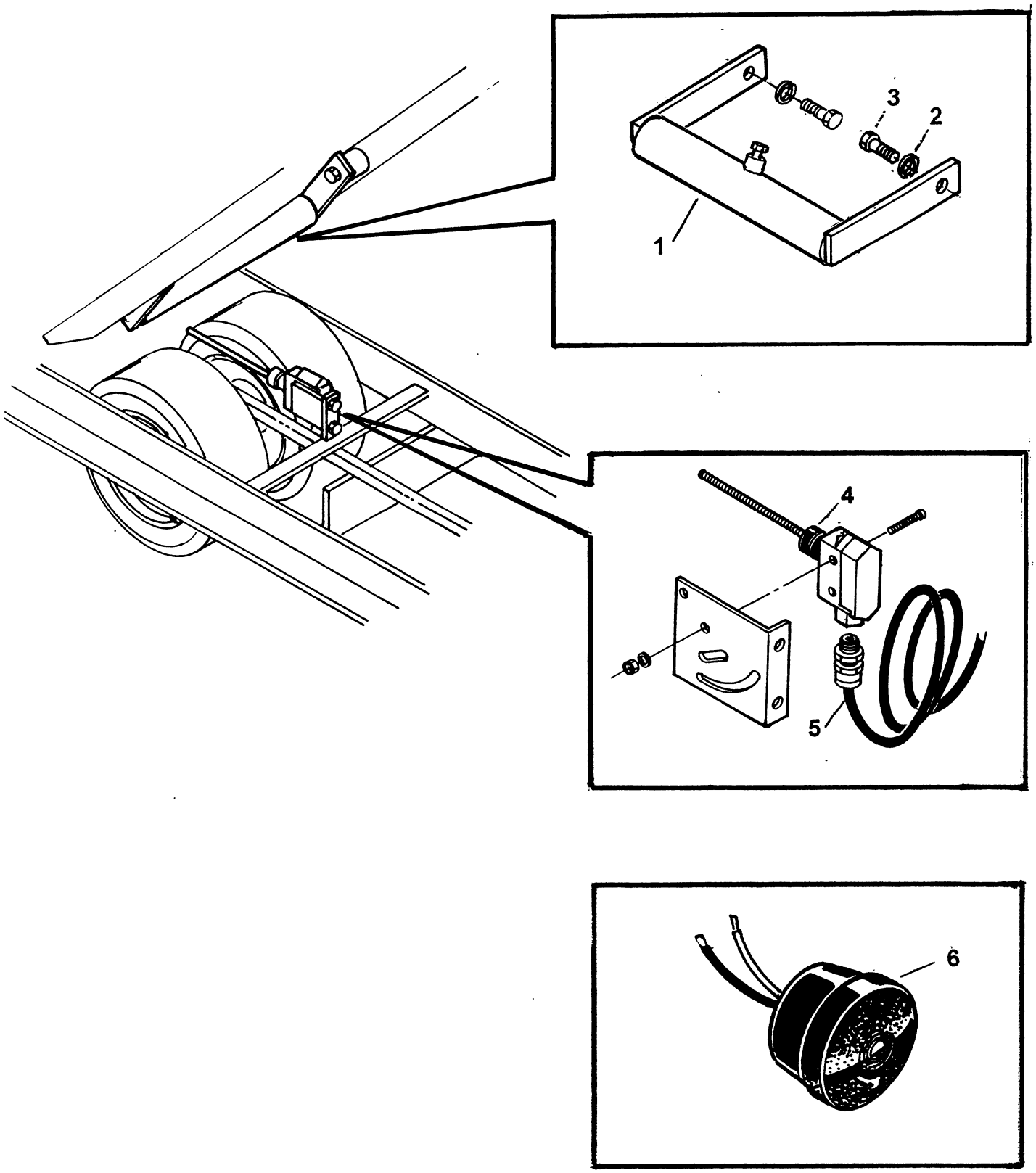
B B SCREED ARM ASSEMBLY .

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	851605	Arm, screed extension	2
2	851606	Arm, rear screed (right hand)	1
3	851607	Arm, rear screed (left hand)	1
4	851210	Ears, pivot	2
5		Bolt, hex 5/8" x 2"	2
6		Nut, lock 5/8"	2
7	851436	Cylinder, lift (2 x 12)	1
8		Bolt, 1" x 3"	1
9		Washer, lock 1"	1
10	870302	Screw, electric	1
11	851209	Mount, pivot	2
12		Bolt, 3/8" x 3/4"	2
13		Washer, fender 3/8"	2
14	870042	Flight Screw Assembly (6" extended)	2
15		Spacer	1
16	870042	Screw, adjuster	1
17	870030	Bearing, flange	1
18	870042	Anchor, take up	1
19		Bolt, 7/16" x 2"	2
20		Washer, lock 7/16"	2
21		Nut, 7/16"	2
22	870319	Manifold for Cylinders (n/s)	
23		Bolt, 5/8" x 2 1/2"	2


NOTE :
EXTENSION BURNER ASSEMBLY IS
TYPICAL TO BOTH RIGHT & LEFT SIDES

B B PROPANE BURNER ASSEMBLY

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	230010	Tank, propane	1
2	230020	Valve, propane tank	1
3	230030	Adaptor, P.O.L.	1
4	230110	Gauge, gas pressure	1
5	230100	Regulator, propane	1
6	230022	Valve, electric	1
7	230150	Adaptor, hose to pipe	14
8	230160	Clamp, hose	14
9	230000	Hose	A\R
10	230080	Tee, pipe	6
11	230140	Nipple	3
12	230000	Hose	A/R
13	230170	Adaptor, pipe	10
14	230999	Nipple, pipe	3
15	910025	Burner, nozzle, screed (BP 5) (Refer to Note)	2
16	230240	Clamp, nozzle holder	2
17	230024	Heater, 12 VDC	2
18	130000	Hose	A/R
19	851225	Hose	A/R
20	230069	Elbow 90°	2
21	230070	Valve, cut-off	5
22	230169	Coupling, 1/4"	A/R
23	230080	Tee, Pipe	6
24	230200	Burner, extension (BP 4 45° Angle)	2
25	230083	Elbow, 90°	2
26	230084	Coupling, quick release	2
27	851608	Burner, extension complete with hardware	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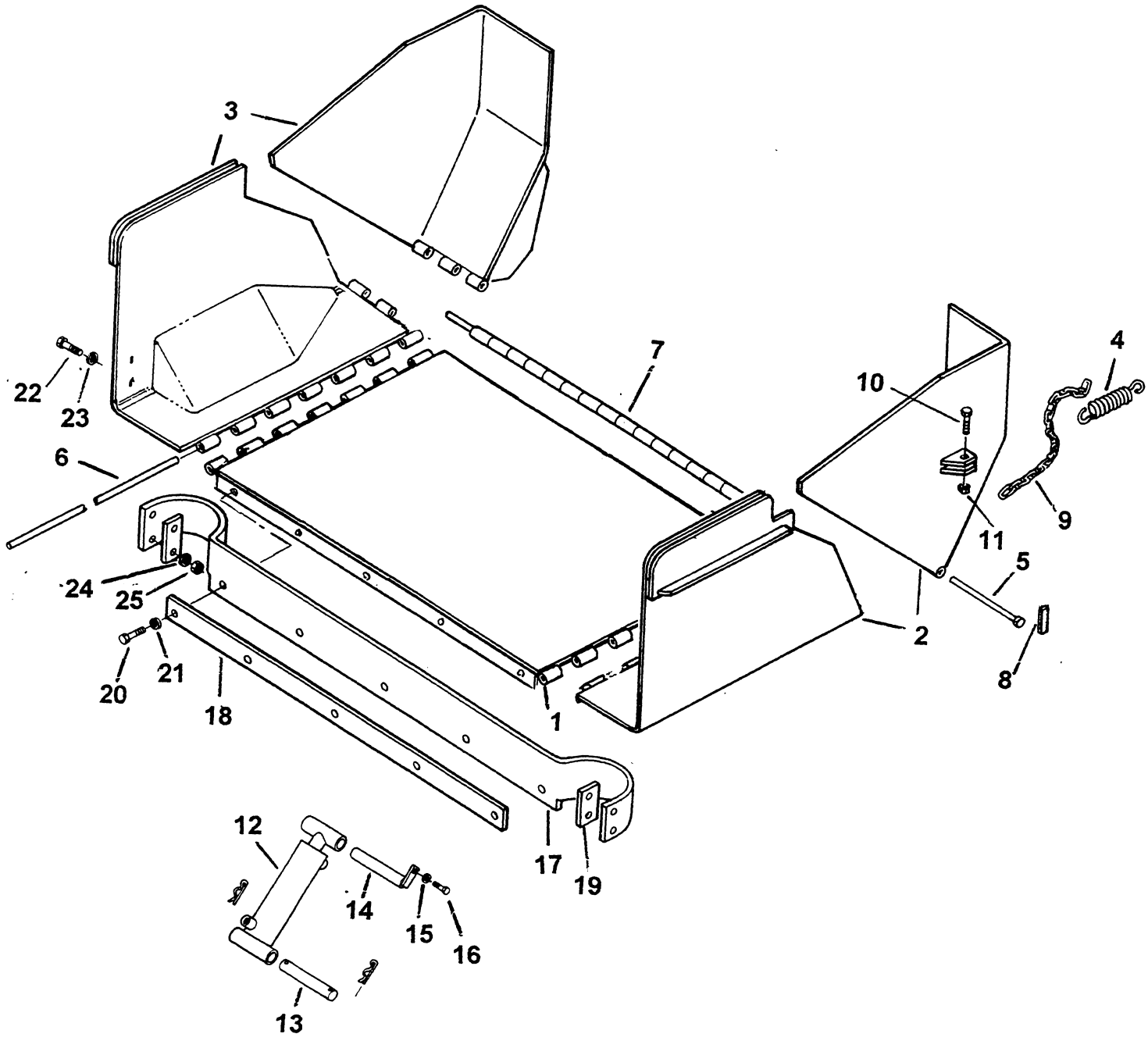
BRAKE RUBBER TIRE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	851610	Bar, tire brake	1
2		Washer, lock 5/8"	2
3		Bolt, 5/8" x 2 1/2" (8' - 1000)	2
		Bolt, 5/8" x 1 3/4" (9' - 1000)	2
4	851508	Switch, brake light	1
5	851611	Cord, brake light	1
6	330050	Light, brake warning	1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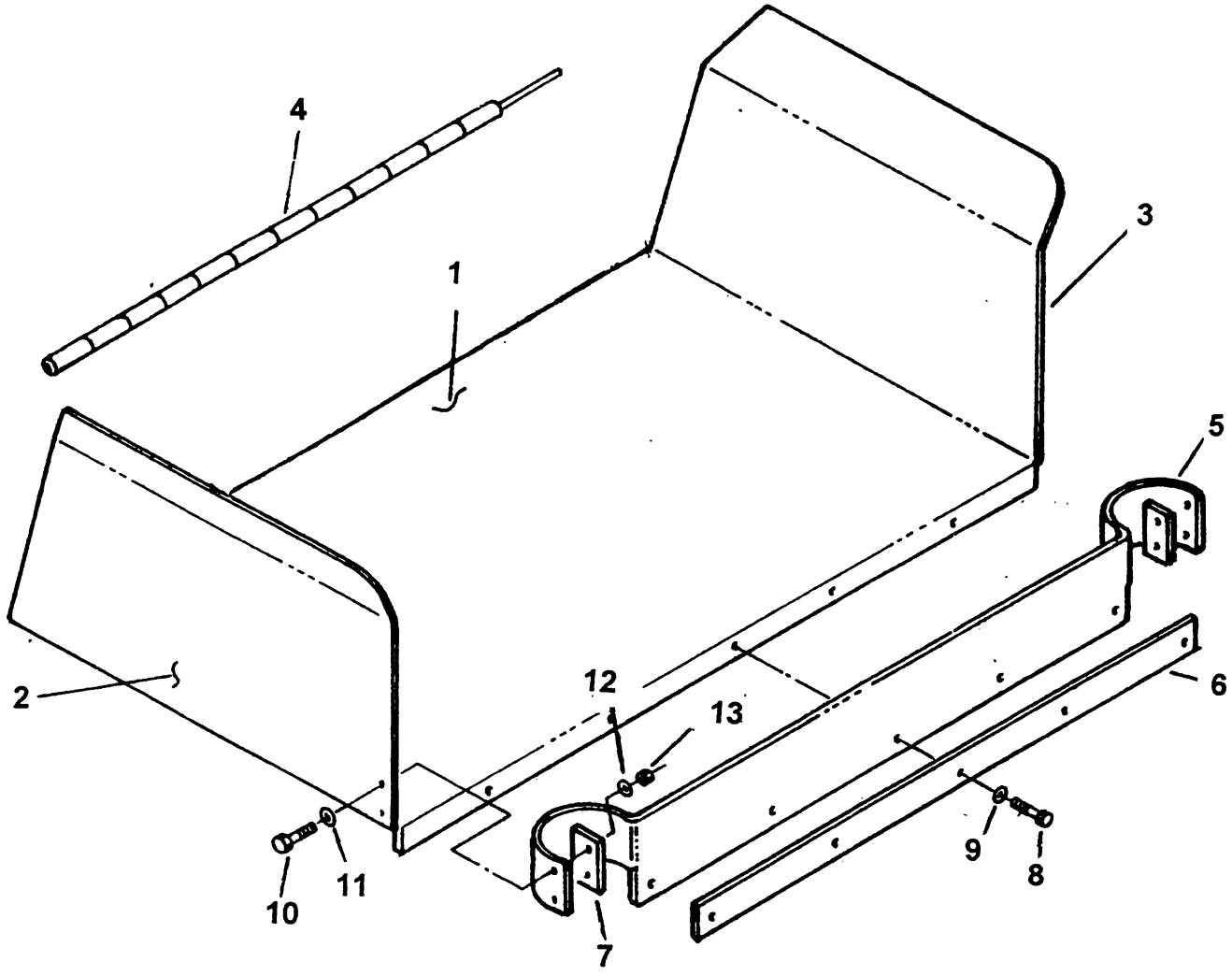
8' 1000 HOPPER WINGS

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	851612	Panel, hopper floor, 8' (specify if hyd. Sidewings)	1
2	851614	Sidewing, left	1
3	851615	Sidewing, right	1
4	930029	Spring, sidewing assist	1
5	930031	Pin, sidewing extension	2
6	930032	Pin, sidewing	2
7	930022	Hinge, hopper	1
8	851617	Pin, keeper (weld on)	1
9	851616	Chain, safety	2
10		Bolt, 3/8" x 1 1/4"	2
11		Nut, 3/8"	2
12	851434	Cylinder, 3 ½" x 18"	2
13	851618	Pin, bottom cylinder	
14	851619	Pin, top cylinder	
15		Washer, lock 3/8"	
16		Bolt, 3/8" x 1" - NF	
17A	930014	Shield, front 8' rubber	1
17B	851622	Shield, front 8' rubber - (Serial No. 2500 and above)	
18A	930011	Bracket, shield 8'	1
18B	851623	Bracket, shield 8' - (Serial No. 2500 and above)	
19	930005	Bracket, end shield	2
20		Bolt, 3/8" x 1 1/4"	A/R
21		Washer, lock 3/8"	A/R
22		Bolt, 3/8" x 1 1/2"	4
23		Washer, flat 3/8"	4
24		Washer, lock 3/8"	4
25		Nut, 3/8"	4
		Note: New styled sidewings on pavers with serial no's starting with 1688 (See items 2 and 3)	
		Note: New styled hopper floor panel on pavers with serial no's starting with 1991. This is the introduction of both new styled sidewings and new styled hopper floor panel. (See item 1, 2, & 3.)	
		Note: Serial No's 2500 & above has different hole pattern in rubber & shield. Old style rubber can be used by drilling rubber.	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9' 1000 HOPPER WINGS . . . . . .

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	851613	Panel, hopper floor (Serial No. 1991 and above)	1
2	881620	Sidewing, right	1
3	851621	Sidewing, left	1
4	930023	Hinge, hopper	1
5A	930014	Shield, front rubber 9'	1
5B	851624	Shield, front rubber 9' (Serial No. 2500 and above)	1
6A	930011	Bracket, shield 9'	1
6B	851625	Bracket, shield 9' (Serial No. 2500 and above)	1
7	930009	Bracket, end shield	2
8	930016	Bolt, 3/8" x 1 1/4"	A/R
9	930017	Washer, lock 3/8"	A/R
10	930018	Bolt, 3/8" x 1 1/2"	4
11	930019	Washer, flat 3/8"	4
12	930024	Washer, lock 3/8"	4
13	930021	Nut, 3/8"	4

Note: New style Hopper Floor and Cylinder on Serial No. 1991 and above. Use Part No. 851434 cylinder (3 1/2" x 18"). Cylinder and Pins shown under 8' Hopper and Sidewings Group.