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JACOBSEN
GREENS KING

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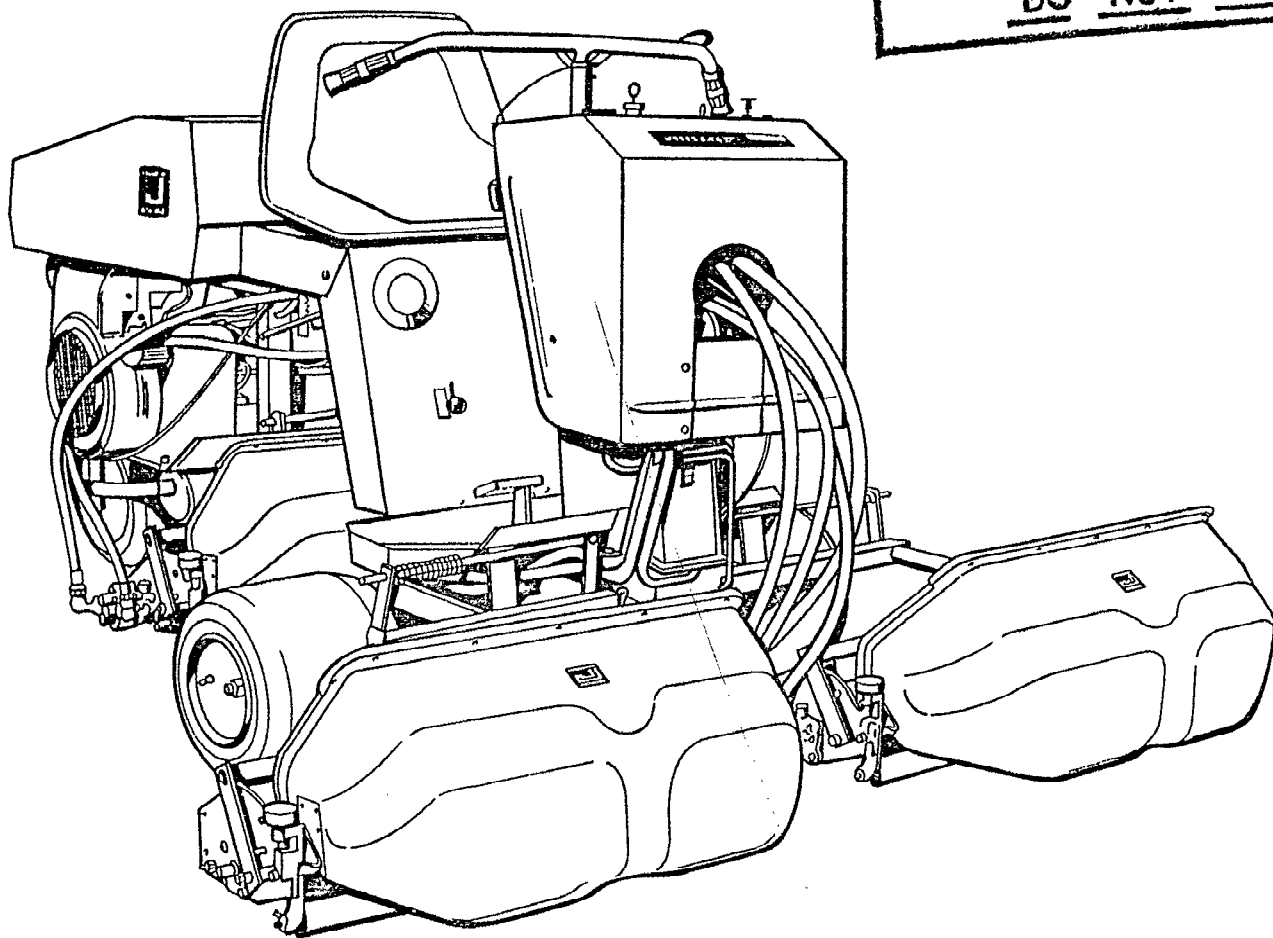
TRIPLEX

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OWNER'S MANUAL

and PARTS LIST

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GREENS KING®

WITH SELF-ADJUSTING
REEL BEARINGS

PRODUCT NO. 62214-A

SERIAL NO. 4943 and up



JACOBSEN MANUFACTURING COMPANY RACINE, WISCONSIN 53403

A Member Company of Allegheny Ludlum Industries

Part No. 352833

FOREWORD

This manual contains operating, maintenance, adjustment instructions and parts list for your Jacobsen Greens King Greensmower. Before you operate your Greens King, it will be helpful to read this manual carefully in its entirety. By following the operating and maintenance instructions, you will prolong the life of your mower and maintain its maximum efficiency.

If additional information is needed or should you require trained mechanic service, contact your franchised Jacobsen Turf Equipment Distributor.

All Jacobsen Turf Equipment Distributors are kept informed of the latest methods of servicing and are equipped to provide prompt and efficient service in the field or at their service stations. They carry am-

ple stocks of Jacobsen service parts or can secure them promptly for you from the factory.

All Jacobsen parts are thoroughly tested and inspected before leaving the factory, however, some attention is required on your part. The amount of attention is slight but important if you are to obtain the fullest measure of satisfaction and performance.

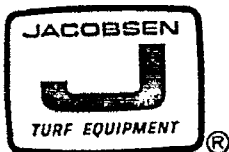
When ordering parts, always give the serial number and model of your Greens King, as well as the quantity, part number and description of the parts needed.

The serial number plate is located below the seat on the right side of the Tractor; we suggest you record this number below for ready reference.
Serial No. Greens King _____



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DESCRIPTION

- A. The Jacobsen Greens King is a hydraulic powered and controlled mower which combines maximum efficiency in operation with ease of maintenance to provide overall economy in cutting greens.
- B. The Greens King engine, which is equipped with a Bendix type electric starter, has ample power to meet all mowing and transport conditions.
- C. The Greens King is equipped with three 22" wide mowers containing nine-blade 5" diameter reels. The mowers are balanced to provide uniform weight across the width of the mower eliminating any discrepancy in cutting height where cuts overlap.
- D. All three mowers are attached to the main frame by carry arms in a manner which permits a free floating action both up and down and side to side tilt to conform to varying ground elevations. The mowers are raised and lowered by a hydraulic cylinder which is connected to the carry arms by a unique linkage arrangement which provides a delayed raising and lowering action of the rear mower.
- E. The Greens King is equipped with hydraulic motors on the drive wheels which are connected in a parallel circuit to provide full differential action.
- F. The hydraulic drive system has two speed ranges: low speed for mowing provides speeds from 1-1/2 to 3-1/2 M.P.H.; high speed for transporting between greens, etc. provides speeds from 3-1/2 to 8 M.P.H.
- G. The Greens King is equipped with automotive type brakes on the drive wheels for safety and convenience. A parking brake is also provided. All wheels are equipped with wide terra tires to prevent marking of greens. The Greens King applies fewer pounds per square inch pressure to the green than does an average man walking.
- H. All controls are conveniently located within easy reach of the operator and are designed for ease of operation.
- I. The Greens King is equipped with the necessary shields for the safety of the operator and equipment.

SET-UP INSTRUCTIONS

1. Remove the top and sides of the crate, the bands from the front mowers, wheels, etc. Do not remove from the base yet. Install optional front rollers on mowers and adjust to desired cutting height (See Fig. 8).
2. Slide the front mowers on the pivot shafts and insert pins (the pins are in the plastic bag taped to a mower lift arm).
3. Prepare the battery for operation.
 - a. Remove the battery from the tractor and place on a piece of wood. DO NOT SET ON CONCRETE FLOOR.

CAUTION

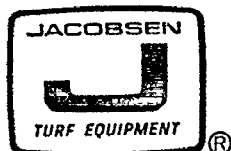
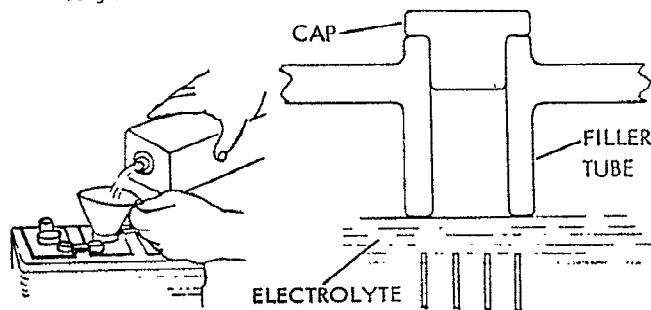
Do not over-fill battery. Electrolyte may overflow during charging period. We cannot be responsible for damages if this warning is disregarded.

- d. After 20 minute waiting period and with filler caps removed, place battery on a charger set at a maximum of 3 amperes, charge the battery until a specific gravity reading of 1.265 - 1.275 is obtained.
- e. Replace filler caps and install battery in tractor. Place the battery on the carrier with the terminals to the outside, attach the ground cable to the rear (neg.) terminal, attach the cable from the solenoid to the front (pos.) terminal.
4. Remove the machine from the base and inspect carefully. Report any damage or missing parts to your dealer or to the carrier if shipping damage.

WARNING

Avoid contact with the electrolyte; it contains acid. It will cause painful and dangerous injury to eyes or skin in case of contact. It will damage clothing and other articles if spilled or splattered. Before opening the electrolyte container study the antidote label for procedure in case of accidental contact.

- b. Read instructions on electrolyte carton.
- c. Remove filler caps and fill battery with electrolyte to proper level (see sketch). ALLOW BATTERY TO SET FOR 20 MINUTES.





PREPARING FOR OPERATION

NOTE

Keep fire, open flames, electrical sparks away from battery. After receiving a long charge, a battery gives off highly flammable vapors.

DEFINITION OF DIRECTIONS

The following definitions are used in this manual: Left and Right refer to the operator's left or right when seated in the normal operating position. Front and Rear likewise refer to directions from the viewpoint of the seated operator.

The Greens King is shipped assembled, oiled, greased and ready for operation except for mounting the front mowers and servicing of the battery (see Set-Up Instructions). Before placing your tractor in operation the following items should be checked.

Engine

Check oil in crankcase. It should be filled to the full mark on the dipstick. Read the engine manual carefully before operating the engine. See Specifications (Page 23).

Fuel Tank

Fill the tank with a good quality, clean, regular grade of gasoline. Do NOT use hi-test gasoline or an oil gasoline mixture.

Lubrication

Check all lubrication points listed on the lubrication chart (pages 19 thru 22) for proper lubrication.

NOTE

Do NOT refuel tractor with engine running or while engine is hot. Vapors from fuel, or fuel coming in contact with a hot engine may cause a fire or an explosion. Do NOT refuel tank while smoking or near an open flame. When filling tank with fuel keep hose and nozzle or fuel can and funnel in contact with metal of fuel tank to prevent the possibility of fire or explosion caused by static electricity. Keep fire and intense heat away from fuel storage area as the surrounding air contains highly explosive vapors.

Tires

Check tires for proper inflation. See Tire Maintenance (page 17) for pressure.

Hydraulic Reservoir

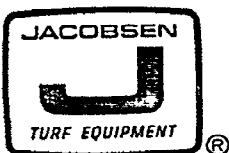
Check oil level in reservoir. Oil level should never be below the low level mark or more than 1" above the high level mark.

Battery

Add electrolyte and charge. See Set-Up Instructions for detailed instructions.

Cutting Height

Check reels for desired cutting height adjustment. To provide a satisfactory cut, it is essential for all reels to be accurately adjusted to exactly the same height (see page 9 for Cutting Height Adjustment).



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CONTROLS

Ignition Switch

Located ahead of and to the left of the handle bar, insert key into switch, turn clockwise as far as possible to start engine. As soon as engine starts, release key-



See Control Setting check list before starting engine.

Hour Meter (See Fig. 2)

Located in the far right corner of the front cowling. It operates only when the machine is running, and indicates the number of hours the machine has been operated.

Ammeter (See Fig. 2)

Located ahead of and to the right of the handle bar. It indicates the rate of battery charge or discharge. When possible, maintain sufficient engine speed to prevent an unnecessary drain on the battery. The Greens King is equipped with a solid state alternator in place of a generator.

NOTE

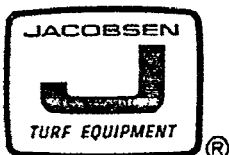
During normal operation there will be little or no movement of ammeter needle.

Reel Control Valve (See Fig. 3)

Located on left side of reservoir. The reel control valve is a three position push pull type valve. It can be operated manually by hand or automatically by foot with the reel lift valve. Push fully in to engage reels or pull fully out to stop reels. The center or neutral position, located by a slight detent, is used only when lapping the reels. See Reel Lapping instructions.

NOTE

Do NOT run reels dry for more than a few seconds or the reel blades and bedknife may be damaged.



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Reel Lift Valve (See Fig. 3)

Located on left side of reservoir and controlled by a foot pedal on left side of floor board. The reel lift valve is a three position valve with neutral in the center position. The valve is spring loaded in both the raise and lower positions and automatically returns to neutral when released.

To lower and start the reels turning push down on the front of the pedal. To raise the reels push the rear part of the pedal part way down until a detent is felt. After the three reels are all the way up, push the rear part of the pedal all the way down and the reels will stop turning.

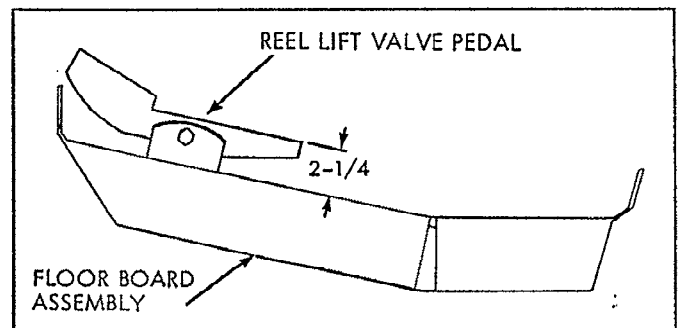


Figure 1.

The linkage between reel lift valve and reel control valve has been set at the factory. Adjustment is made by turning nut (Ref. B) until pedal is approximately 2-1/4 inches above the floor board assembly. Loosen nut (Ref. A), push down on front side of reel lift valve pedal until stopped by full movement of reel lift valve (Ref. D) and hold in this position. Push reel control valve all the way in, turn nut (Ref. A) down until tight in slot in link (Ref. C), tighten nut (Ref. A).

NOTE

When raising and lowering the reels, it is necessary to hold the valve for several seconds to allow the rear reel to fully raise or lower. This is due to the delayed action camming device on the rear reel. Do NOT raise the reels if they are pivoted more than 10 degrees, either way from center.



Do NOT operate tractor in reverse with reels in the lowered or mowing position. Damage to the reels or frames may occur if you do.

Located on right side of reservoir near the top. The traction valve is a three position valve with neutral in the center position; push forward for forward travel. The valve will remain in the forward position until manually pulled back. Pull back for reverse. The valve is spring loaded in the reverse position and automatically returns to neutral when released.

CAUTION

Do NOT operate valve when engine is running unless properly seated on tractor seat.

Speed Control Valve (See Fig. 2)

Located on right side of reservoir below the traction valve. The speed control valve is a two position, push-pull type valve. Push in for the hi-speed position; pull out for low speed. The hi-speed position is used for transporting only. The reel control valve must be in off position during transport to prevent damage to the reels. The rear mower will run when reel control valve is in "on" position and speed control valve is in "high" position.

NOTE

Traction valve must be in neutral and the machine stopped when the speed control valve is shifted. If the traction valve is in forward, it will automatically return to neutral if the speed control valve is shifted. This feature protects the system from hydraulic shock.

The speed control valve should be in the low speed position when starting the engine and when operating the tractor in reverse.

Brake Pedal (See Fig. 2)

Located on floorboard to the right of the reservoir. Push brake pedal to slow or stop tractor. The brakes are intended for use on down grades to keep the tractor from over-running the traction motors. Use only enough pressure on the pedal to keep the tractor speed the same as the throttle setting indicates. On level ground put the traction valve in neutral when the brakes are applied.

Parking Brake (See Fig. 2)

Located on center cowling directly below operator's right leg. To set parking brake fully depress the brake pedal and pull up on the parking brake knob. To release the parking brake push the brake pedal and the parking brake will automatically release. Place traction valve in the neutral position when parking brake is set.

Choke (See Fig. 2)

Located on left side by ignition switch. When starting a cold engine, pull the button up to close the choke. After the engine starts, push the button about half way down to partially open the choke. Push the button

all the way down to fully open the choke for normal operation after the engine is properly warmed. A warm engine usually needs less choke to start.

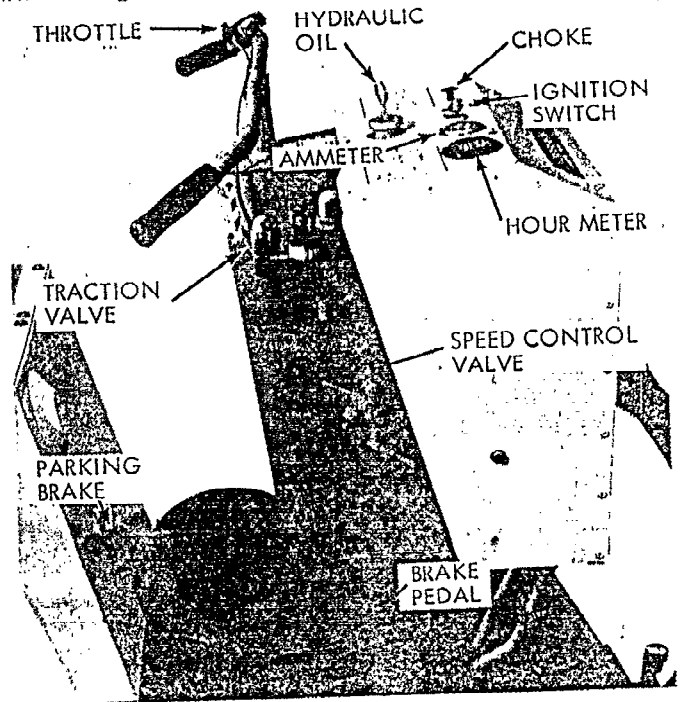


Figure 2.

Throttle (See Fig. 2)

Located on the left side of the steering handle. Push up to increase and push down to decrease engine speed.

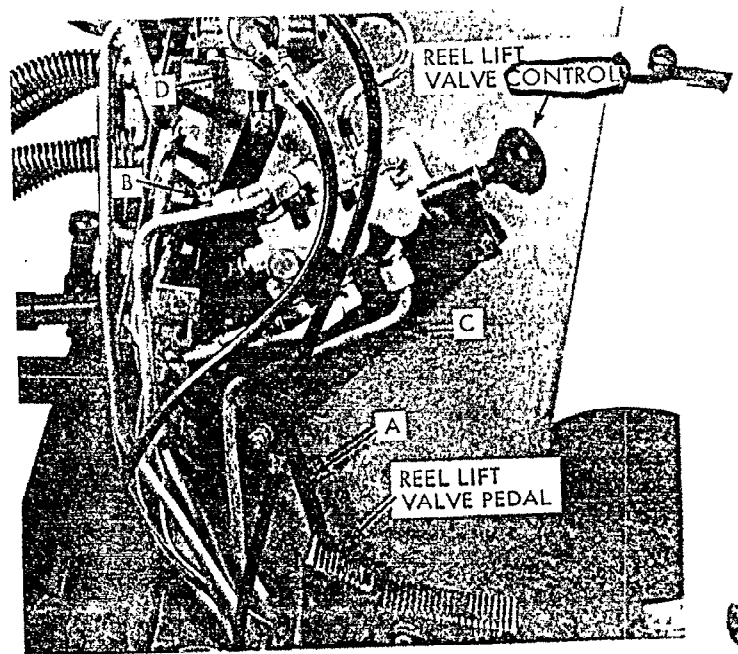
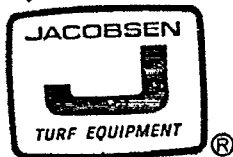


Figure 3.



OPERATING INSTRUCTIONS

CONTROL SETTING CHECK LIST

The following items should always be checked before the engine is started.

1. Traction Valve - in neutral (center) position.
2. Speed Control Valve - in low speed (out) position.
3. Reel Control Valve - in disengaged (out) position.
4. Reel Lift Valve - in neutral (center) position.
5. Throttle & Choke Controls - adjust to suit starting conditions.

TRANSPORTING

All mowers must be fully raised to the transport position when driving to and from the area of operation. If the tractor is driven with the mowers partially raised, the mowers may swing on the lift arms, causing damage to the mowers or hydraulic system.

SPEEDS

Hi-speed - Use the hi-speed setting of the speed control valve for transporting to and from greens only. Reel control valve must be in off position during transport or rear reel will run.

Low-speed - Use the low-speed setting of the speed control valve for maneuvering in close quarters, traveling in reverse, and for mowing.

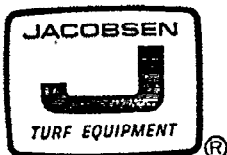
SIDE HILL OPERATION AND HILL CLIMBING

The Greens King will easily mow any slope normally found on a green. Do NOT travel straight down slopes exceeding 14 degrees (25 percent).

When climbing a steep slope and the tires begin to slip, the grade is too steep for safe operation. Angle the tractor to a less steep slope until the tires stop slipping and traction is regained.

NOTE

Wash off the reel after each use to avoid an accumulation of grass clippings, juices, etc., which would tend to deflect stems before they are properly positioned between the reel blade and the bedknife.



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INSTRUCTIONS FOR MOWING GREENS

Three common methods of mowing greens are outlined below for your convenience.

CAUTION

The procedures listed below should be followed when turning. Failure to do so may prevent the mowers from over lapping properly.

1. To avoid rear wheel skid, turning should be done at a slow speed.
2. Turn the steering handle slowly. Do not whip the handle in making turns.
3. Turning should be made from a straight ahead direction of travel. Do not make "S" turns too rapidly.

- A. Circling on the green. The entire green is cut in one operation by this method. Make the first pass across the green approximately the tractor's own width off center and without stopping circle toward one edge of the green and work back to the center (see Fig. 4). The angle of entrance on the green should be changed each time the green is cut; think of the green as the face of a clock. Start the 1st mowing at 12 o'clock, the 2nd at 1:30, the 3rd at 3 o'clock, etc. on around the green. It is important that end passes are made over the turning area to insure complete cutting (See Fig. 4). This method of mowing reduces the time required to cut greens and also reduces the possibility of bringing objectionable long clippings, twigs, leaves, weed and grass seeds on to the green as the mowers are lowered and raised on the green and are never in contact with the apron. This method of cutting is most effective where steep slopes, sand traps, etc. are so close to the green as to prohibit normal off green turns. This method, however, will not produce a uniform striped effect that is sometimes desired.

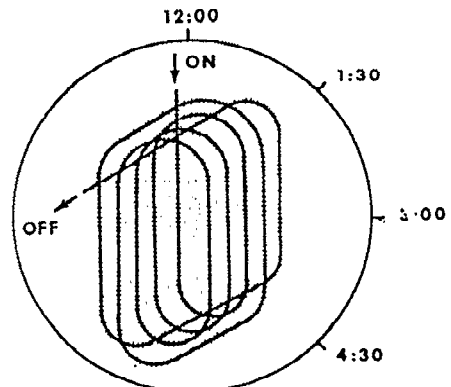


Figure 4.

B. Cross cut the green with the reels constantly running. As the green is approached, adjust the engine speed to suit conditions and start the reels. Lower the mowers when entering the green and raise them when leaving the green to turn around. It will not harm the reels to leave them run while turning around. If, however, it is necessary to stop while off the green, turn the reels off immediately. This method of mowing greens is nearly as effective in keeping greens free of debris as method "A" although the tires may carry some foreign matter on to the green when turning around. This will be minimized if grass catchers are used when mowing the area extending 15 feet from the edge of the green.

C. Cross cut the green without raising the mowers. As the green is approached, adjust the engine speed to suit conditions. Lower the mowers and start the reels when entering the green. When leaving the green, stop the reels by pulling reel control knob out as the front mowers reach the edge of the green; continue off the green and turn around, leaving the mowers in the lowered position. This method of mowing greens is an alternate method for cross cutting the greens which may be used if desired.

To turn to the right, start by turning slightly (approx. 30 degrees) to the left. When the mower has moved approximately 1/2 its own width to the left, swing it around quickly to the right (see Fig. 6). A left turn is made in the same manner except that the directions are reversed.

To assure complete even cutting, it is necessary to overlap swaths by a few inches. After completely covering the green using the cross cut pattern, it is necessary to make one or more passes around the circumference of the green to clean up the ragged edges and to neatly separate the putting green surface from the apron area. It is customary to alter the mowing pattern each time a green is mowed. This provides a more even playing surface and neater appearance (see Fig. 5). When using the cross cut pattern, it is usual to start at one side of the green and work across to the other side. If, however, the 1st pass is made near the center, it should be approximately the tractor's own width off center.

NOTE

When grass clippings are unusually heavy due to rain, etc., it is advisable to place weight bars inside the main mower frame tube on each mower to prevent the mower rear rollers from lifting or bobbing. Maximum bar size that will fit inside the tubes if 1-1/4" dia. x 24" long. This size bar will add 8 pounds to the mower with the major portion of the added weight on the rear roller. The bars should be wedged or otherwise retained in place.

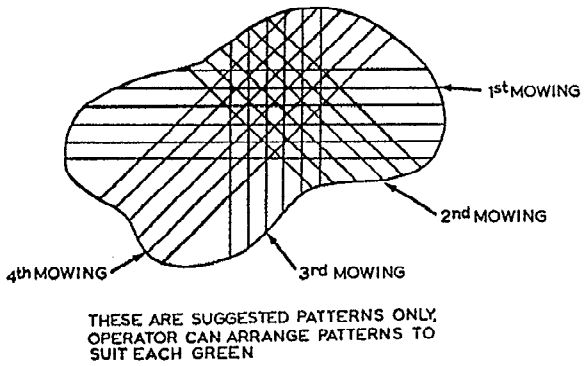


Figure 5.

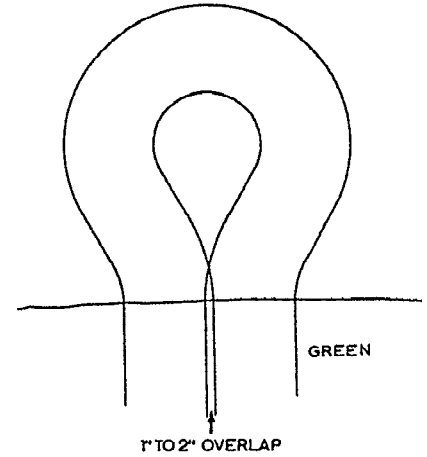
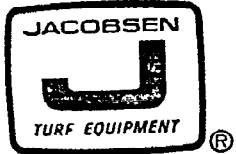


Figure 6.

NOTE

In some cases the apron area may be too narrow to permit a loop type turn around. In these cases the following method may be used. Make a 90 degree turn when leaving the green and stop, back up past the exit point, then start forward and make a 90 degree turn onto the green (see Fig. 7).

It may be helpful to reduce engine speed somewhat when turning around. As the operator gains experience, he will develop his own style of turning and operating. However, the following may be helpful.



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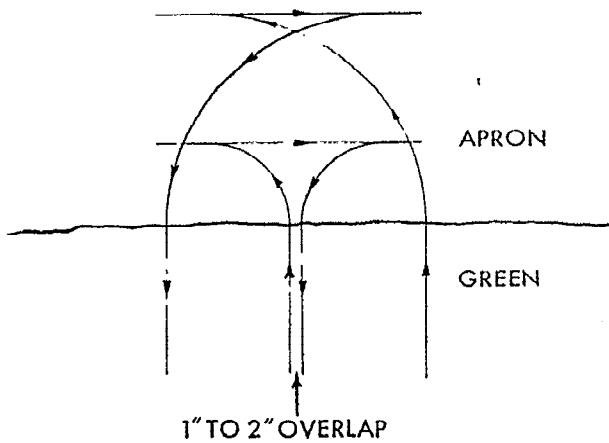


Figure 7.

CAUTION

The mowers should never be stopped on the green with the reels running as damage to the turf will result due to the reels spinning in one spot without forward motion. Do not stop the Greens King on a wet green as the wheels may leave marks or indentations.

REMOVING OIL FROM PUTTING GREENS

If oil is spilled on a green it can be removed with minimum damage to the turf by following the instructions below.

1. Apply dry, GRANULAR detergent such as ALL, DUZ, etc. as soon as possible and generously to completely cover all oily areas. DO NOT use FLAKE or LIQUID type detergents. DO NOT attempt to WIPE or BLOT oil from the turf.
2. Leave detergent on surface 15 to 30 minutes to thoroughly absorb the oil and flush off with water under highest available pressure. Flush toward nearest edge of the green and down grade if possible. Continue flushing until all visible traces of detergent have been removed from the green and apron. A sand trap is the best place to deposit the oil.

ADJUSTMENTS

CUTTING HEIGHT ADJUSTMENT

To obtain a satisfactory, even cut, it is essential that all reels be adjusted accurately to exactly the same cutting height.

- A. Raise mowers to transport position. Stop engine.
- B. Loosen the lock nut on one side of the front roller brackets just enough to allow hand knob to raise or lower bracket.
- C. Set cutting height gauge, furnished with the tractor, to desired height by measuring between the under side of screw head and gauge block surface and tighten the wing nut.

- D. Place gauge across bottom of front and rear rollers on flat area near one end.
- E. Slide the head of gauge screw over the bedknife and adjust the hand wheel to close the gap between the screw head and bedknife. Then tighten lock nut.
- F. Repeat operation "B" through "E" on opposite end. Complete adjustment to one end before adjusting opposite end.

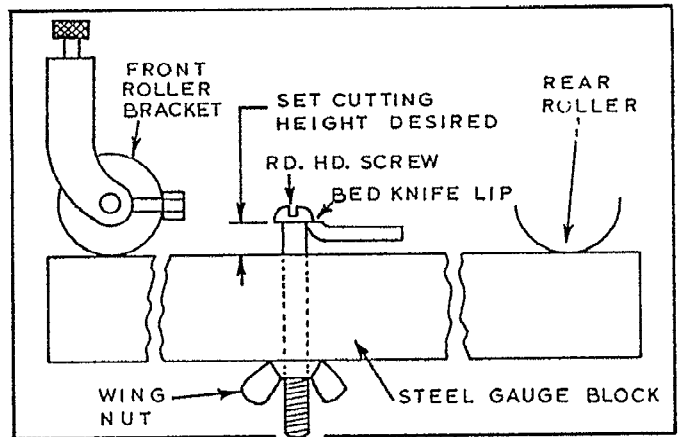


Figure 8.

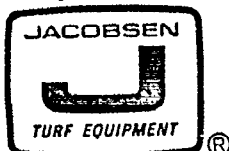
- G. After tightening lock nuts re-check each end with gauge for proper adjustment.

BEDKNIFE ADJUSTMENT

- A. With engine stopped place the traction valve in neutral, speed control valve in low, and reel valve in the center or "lapping" detent position so that the reel may be turned freely by hand.
- B. Loosen the lower bedknife adjusting screws (A Fig. 9) approximately 1/4 turn each (turn clockwise).
- C. Rotate the reel by hand while tightening the upper (B Fig. 9) adjusting screws evenly (turn clockwise) until the bedknife comes into slight contact with the reel blades and tighten the lower screws securely. It may be necessary to alternate between loosening lower and tightening upper screws.
- D. When correctly adjusted, each blade will cut a strip of newspaper (held at approximately 45° to the top face of the bedknife) along the full length of the bedknife, and the reel can be revolved freely by hand.

NOTE

Tightening the lower screws (after adjustments are made) may move the bedknife out of contact with the reel blades. This does not reduce cutting efficiency of the reel if newspaper can be cut as indicated above. **AVOID EXCESSIVE TIGHTENING OR SERIOUS DAMAGE MAY RESULT TO BEDKNIFE AND REEL BLADES. REELS, MUST REVOLVE FREELY.**



CAUTION

If the hoses are disconnected the reel motors must be removed as they will be damaged if revolved more than a few turns without oil circulating through them.

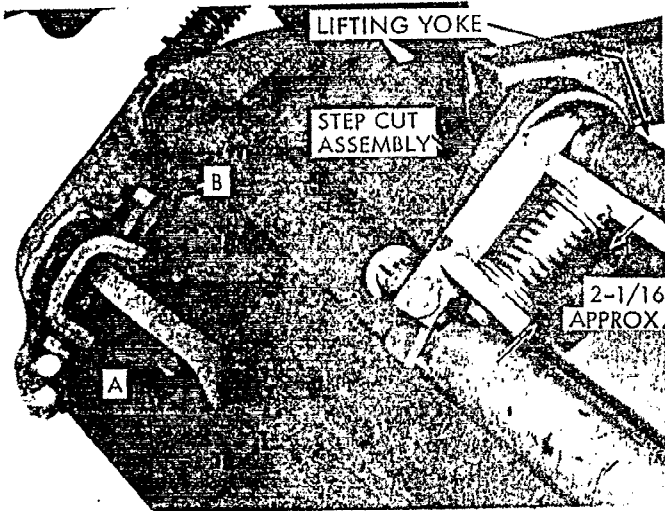


Figure 9.

STEP CUT ASSEMBLY (See Fig. 9)

With mowers in raised position, turn bracket forward. The head of the cap screw must clear the lifting yoke. Lower mowers with bracket in position on a flat surface. Measure from cutting edge of the bedknife to flat surface to check the cutting height. Cutting heights from 3/8" to 1-1/8" can be acquired.

REEL BEARING ADJUSTMENT

Reels bearings are self-adjustable.

Reel spring mounting nut must be pulled up tight against spring retaining washer.

NOTE

To use rear roller cleaner accessory, Product No. 68502, with reels that have self-adjusting bearings, order three (3) sprockets, No. 332446 to fit the 1/2" diameter reel shafts.

SHARPENING THE REELS

The reels may be sharpened without removing them from the tractor by following the instructions given below only if the hoses remain connected and the oil in the tank is at the proper level.

- A. With engine stopped place the traction valve in Neutral, speed control valve in Low and the reel valve in the center or "Lapping" detent position. This permits the reel to rotate in the reverse direction. **ALWAYS ROTATE REEL BACKWARD WHEN LAPPING.**
- B. Adjust the bedknife evenly so the reel blades wipe along its entire length. If there is a high spot in the bedknife loosen the screw nearest that point and insert a shim between the bedknife and shoe.
- C. When the bedknife has the best possible contact with the reel blades insert the lapping crank or lapping machine shaft in the end of the reel shaft opposite the motor. When attaching lapping crank to the right front reel it will be necessary to put a 3/8-24 hex jam nut on the crank to lock it to the reel shaft (the lapping crank is available from the service department). Turn the reel backward and apply a mixture of emery dust (#60 carborundum) and oil with a brush along the entire length of the reel. When the blades have been evenly lapped in this manner, carefully wash off the remaining mixture. Check with newspaper for correct cutting adjustment and adjust if necessary (see bedknife adjustment instructions).
- D. The complete mower assembly may be removed from the tractor and placed on a bench for convenience in lapping if desired. The mower assembly is removed from the tractor by removing the hex head cap screws, lockwashers, flat washers and spacers which attach the mower to the lift yoke.

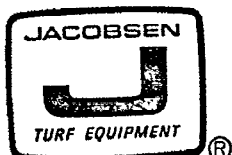
REMOVING REELS FROM MOWER FRAME

After prolonged use it may be necessary to remove the reels for grinding or replacement.

NOTE

Reel grinding is normally done without removing the reel from the mower.

- A. Back the bedknife away from contact with the reel.
- B. Remove the bearing housing cover and bearing adjusting nut from the reel shaft (from end opposite the motor).
- C. Remove the reel motor and drive nut from the other end of the reel shaft.



NOTE

To avoid the possibility of dirt entering the hydraulic system, as well as loss of oil, it is advisable, but not imperative, to leave the hoses connected to the motor and the tractor when removing the motor.

- D. Order Service Part No. 545718, Shipping Cover from your dealer. It is of thin wood and has four holes. Whenever the motor is removed from the reel for cleaning or servicing assemble this cover over the four bolts protruding through the bearing housing, and run on at least two nuts. This will then protect the housing from dust, dirt, etc.
- E. Whenever hoses are removed place the reel control valve in the off (out) position to prevent excessive loss of oil. Cover open ends of hoses with plastic ('baggie' type) bags and seal off with a piece of 'tie' - such as is used to seal plastic bread bags.
- F. Always protect motor with the same type of plastic bag whenever it is disconnected from the reel. Make sure the bag is clean, and seal the opening with a piece of tape or string.
- G. Remove both bearing housings and move the reel as far as possible toward the side frame opposite the motor end. Lift out motor end of reel and then pull the entire reel out of the frame. Protect bearing housings with plastic bags whenever they are removed.
- H. To reassemble, follow the above instructions, but in reverse order. Adjust the reel bearings. Adjust the bedknife to the reel and lap the reel if necessary (see the appropriate instruction).

NOTE

Fill the reel motor spline nut and pack both reel bearing housings 1/2 to 2/3 full of a good grade of pressure gun grease after assembling and adjusting the bearings. After assembling the bearing cover and motor, complete filling with grease gun until grease escapes from the slot in the grease fittings.

BRAKE ADJUSTMENT

The brakes are adjusted in the following manner.

- A. Remove the screw (Ref. A, Fig. 10) and nut from the links (Ref. B, Fig. 10).
- B. Loosen the screw (Ref. C, Fig. 10) which clamps the brake actuating arm (Ref. D, Fig. 10) to the cam.
- C. Remove the arm and rotate slightly so that the forward end of the arm is raised.

NOTE

For proper operation of the brakes both arms must be adjusted the same amount. The brake actuating assembly (Ref. E, Fig. 10) must be parallel to the frame.

- D. Replace the arm (Ref. D, Fig. 10) and tighten the screw (Ref. C, Fig. 10).
- E. Replace the screw (Ref. A, Fig. 10) and nut (hex center loc). Do not over-tighten, there should be



enough clearance between the links and arm to permit movement without binding.

- F. Adjust brake actuating arm (Ref. D Fig. 10) to obtain pedal movement as shown in Fig. 10A.

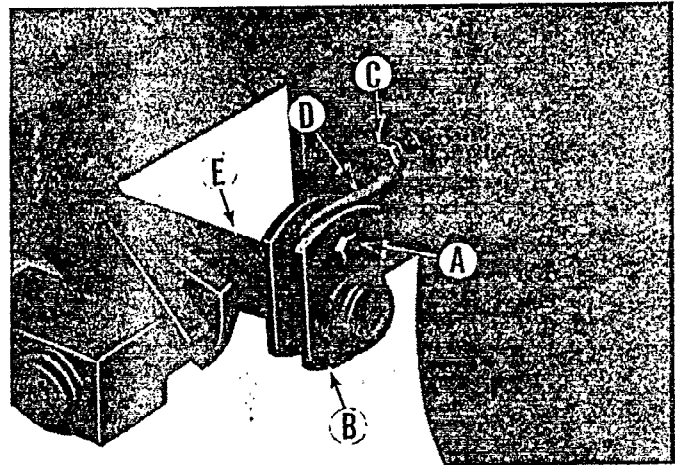


Figure 10.

When brakes have worn to the point that adjustment is required, it is advisable to pull a wheel and check the amount of lining left. If the lining shows considerable wear it should be replaced.

STEERING ADJUSTMENTS

The steering linkage has been properly set at the factory, adjustments should not be necessary unless parts have been repaired or replaced. If it becomes necessary to adjust the handle bar or tractor turning radius follow the instructions given below.

HANDLE BAR ADJUSTMENT

To adjust the handle bar for squareness to the tractor adjust the rear steering link as indicated.

- A. Measure the length of the rear steering link, this should be 42-1/4" (see Fig. 11). A variation of 3/8" either way is permissible to square the wheel with the handle bar.
- B. Position the steering wheel parallel to the tractor center line and disconnect the rear steering link from the front steering arm (two wrenches are required to keep the ball joint from turning).

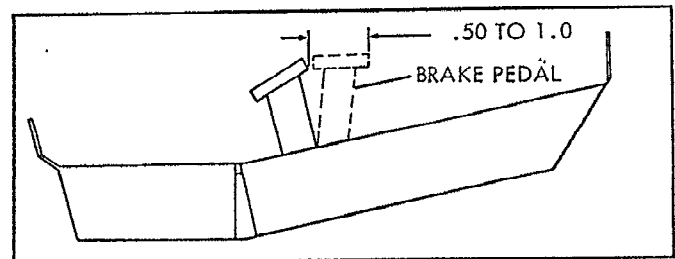
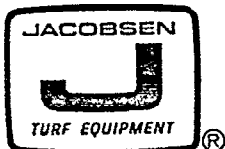


Figure 10A.



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- C. Place the handle bar at 90° to the tractor center line. Hold the ball joint in place above the steering arm with the stud in line with the hole. Measure the distance required to install the stud and add or subtract from the present length.
- D. Loosen the nuts which lock the ball joints to the link (both ends) and adjust the link evenly (the amount of exposed threads on each end should be equal). Place the stud through the steering arm and replace the nut on the under side. Tighten the lock nuts against the ball joints.

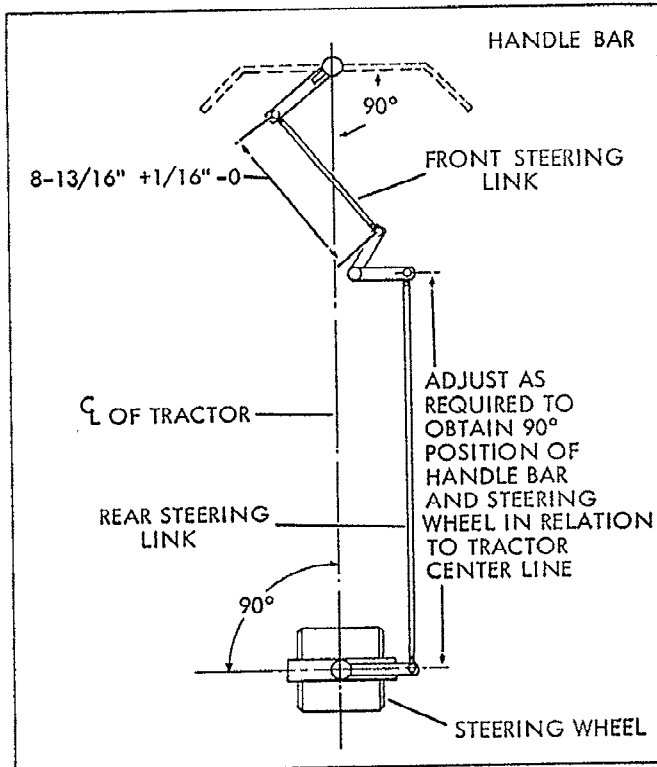


Figure 11.

FRONT STEERING LINK

This link, located under the floor board, is not to be changed when making a steering adjustment. If it is, for any reason, removed and disassembled the dimension of 8-13/16 to 8-7/8" (see Fig. 11) must be maintained when reassembling.

TURNING RADIUS

The factory setting for the turning radius is 5 ft. to 5 ft. 3 in. This adjustment should not need any change unless parts have been repaired or replaced. The turning radius can be checked by the following method.

1. Checking turning radius on turf.

- A. Choose a flat level area, with the reels raised and at a low speed turn the handle bar as far as possible in either direction and stop the tractor.

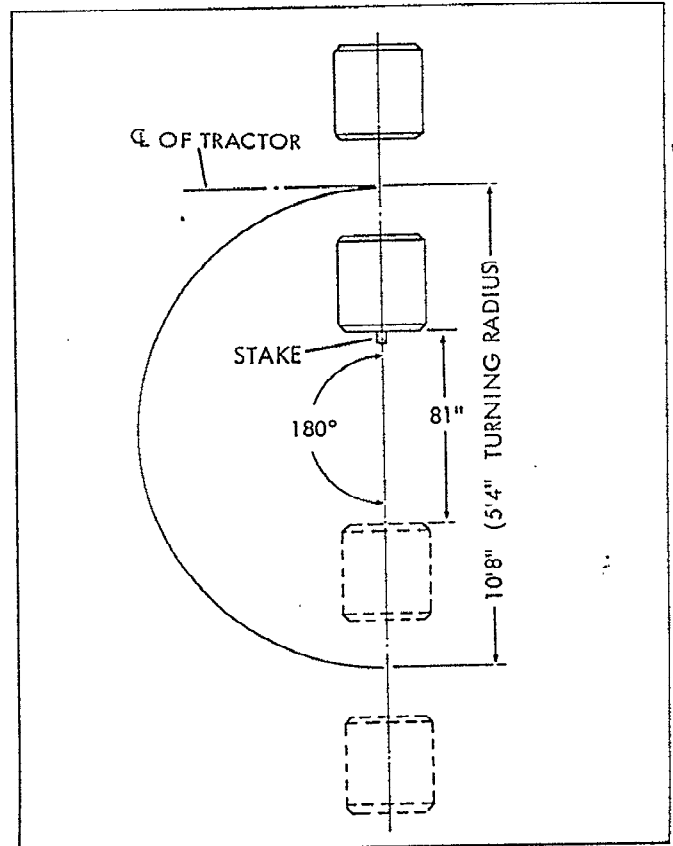
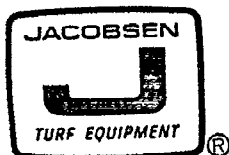


Figure 12.

- B. Drive a stake into the ground even with edge of the inner traction tire and in line with the axle shaft (see Fig. 12).
- C. Continue the turn with the handle bar held firmly against the stop until the tractor has traveled 180° and is directly opposite the stake. Stop the tractor.
- D. Measure the distance from edge of the inner traction tire to the outside edge of the stake. This dimension should be 81" (see Fig. 12) if the turning radius is set to the minimum radius of 5'4".
- E. Repeat the above in the opposite direction.



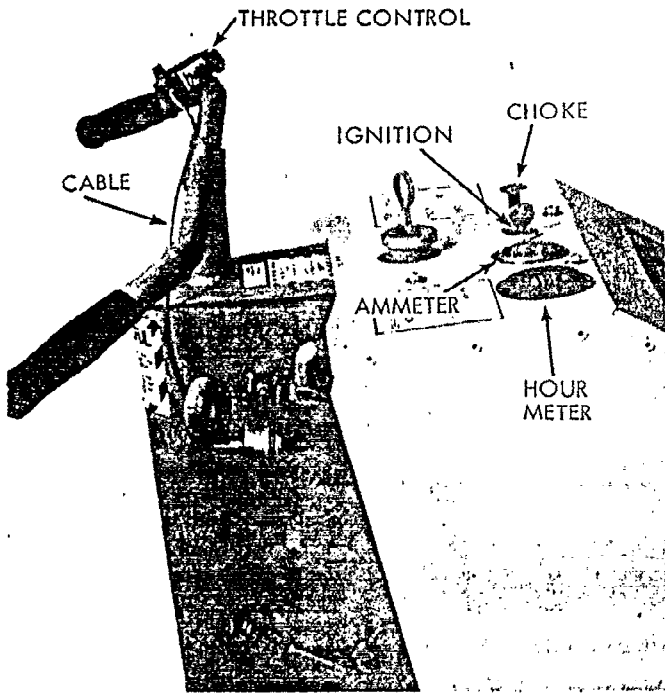


Figure 13.

STEERING STOP ADJUSTMENT

If, after checking the turning radius, it is determined that adjustment is necessary, proceed as follows.

- A. Remove the center cowling and floor board to expose the steering stop adjustment located at the bottom of the steering column.
- B. The R.H. stop screw (see Fig. 14) is adjusted to change the L.H. turning radius and the L.H. stop screw changes the R.H. turning radius.
- C. Turn the screw out from the bracket to increase or in toward the bracket to reduce the turning radius. Usually one or two turns will be all that is required to come within the correct adjustment range of 5'4" to 5'7" turning radius.

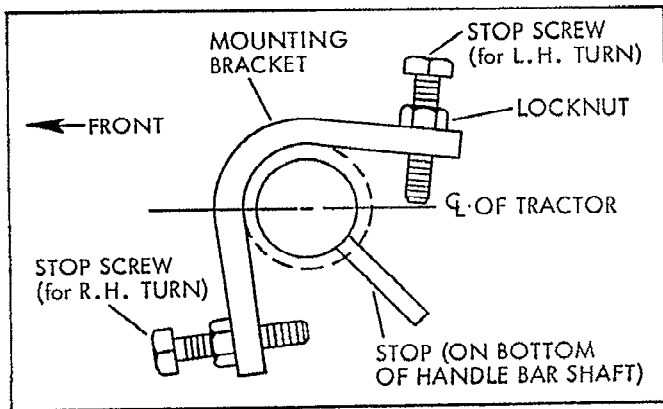


Figure 14.

- D. Check the turning radius, readjust if necessary until correct adjustment is obtained. Tighten lock nuts and replace the floor board and center cowling (make sure parking brake spring bracket and spring are replaced).

NOTE

Make sure that the steering wheel fork does not come in contact with the engine mounting plate when the wheel is turned in either direction, or unnecessary strain on the steering linkage will result.

THROTTLE CONTROL (See Fig. 2 & 13)

The throttle control has been set at the factory to provide proper operation. If for any reason it becomes necessary to remove from the machine, remove all fasteners. The control has permanently attached clips for proper location on the machine.

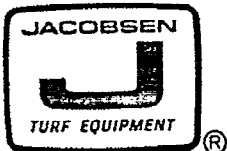
CHOKE CONTROL (See Fig. 13)

The choke control has been set at the factory to provide proper operation. If for any reason it becomes necessary to remove the choke control it is installed and adjusted in the following manner.

- A. Push the choke control knob (on front cowling) in for "OFF" position.
- B. Set choke lever at carburetor to "OFF" (butterfly open) position.
- C. Assemble control wire to choke lever (at carburetor).
- D. Clamp wire housing in place while keeping choke butterfly open and the control knob in the "OFF" position.

MOWER LEVELING ADJUSTMENTS

For front mower adjustments lower mowers to about 1/4" from ground. If mowers are not level, remove the cotter pin in the leveling rod (Ref. 23, Page 27). Adjust the front mower leveling spring (Ref. 28, Page 27) in either direction until mowers are level with ground. For rear mower adjustments, remove cotter pin in leveling spring adjustment rod (Ref. 31, Page 29). Move rod in either direction until mower is level. Insert cotter pins and secure.



REAR MOWER LIFT LINKAGE ADJUSTMENTS

The lift linkage for the rear mower, which provides a delayed raising and lowering action of the rear mower, has been properly adjusted at the factory and should not need any adjustments unless parts have been removed and replaced. The rear mower lift linkage can be adjusted in the following manner.

IMPORTANT - NOTE

Adjustments must be made in the order listed to avoid possible damage to the lift linkage.

1. Mower Lift Cylinder Adjustment (See Fig. 15)

Close the ram fully, then check the cam lever to frame clearance at point "C", the clearance should be approximately 1/8", if it isn't adjust the cylinder in the following manner:

Loosen cylinder lock nut (Ref. E) and use an open end wrench on flats of piston rod (Ref. D) to turn the rod in or out of adjusting nut (Ref. I) to obtain the 1/8" clearance at point "C".

NOTE

DO NOT USE PIPE WRENCH OR OTHER TOOL TO GRIP THE PISTON ROD OF THE CYLINDER.

2. Lift Cam Actuating Finger Adjustment (See Fig. 15)

- a. With the lift cylinder fully closed the lift cam actuating finger (Ref. F) should be parallel with the side of the frame (See Ref. G). If they are not parallel, remove the lower to upper shaft assembly (Ref. A) from the upper lever at point "H", turn the ball joints in or out as required until the actuating finger (Ref. F) is parallel to the frame. Reassemble the link assembly (Ref. A) to the upper lever at point "H" (See Page 11-Handle Bar Adj. item D for Ball Joint Assembly Instructions).

3. Rear Mower Lift Cam and Up-Stop Adjustment (See Fig. 16)

The cam roller (Ref. R) must seat squarely in the outer pocket of the cam (Ref. J). With the roller in

this position the up-stop (Ref. K) should be adjusted to clear the engine base (Ref. L) by 1/32" to 1/16" at point "M", make the adjustment in the following manner.

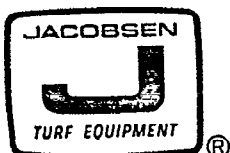
- a. With the mowers lowered disconnect the rear mower lift link (Ref. N) at point "O" while holding the cam (Ref. J) down against the pull of the spring.
- b. Raise the front mowers, hold the lift valve open until the lift cylinder is fully extended; the lift cam (Ref. J) will be in the fully raised position.
- c. Disconnect the cam lift spring from the cam and note position of cam roller (Ref. R) in relation to the cam pocket. If the roller is not centered properly in the pocket, loosen the locknut (Ref. P) and adjust the screw (Ref. Q) in or out as required to center the roller then tighten the locknut.
- d. Raise the rear mower by hand and block it up to obtain the required clearance between the stop (Ref. K) and the engine base (Ref. L). The mower rollers should be parallel to the floor with the mower in the elevated position.
- e. Adjust the ball joints on the lift link (Ref. N) as required to reinstall it freely in the lift lever at point "O" (See page 11-Handle Bar Adj. Item D for Ball Joint Assembly instructions).
- f. With the mower in the lowered position the clearance between the roller and the cam should be 3/8" to 5/8". This should be obtained by adjusting bolt (Ref. S) Fig. 15.

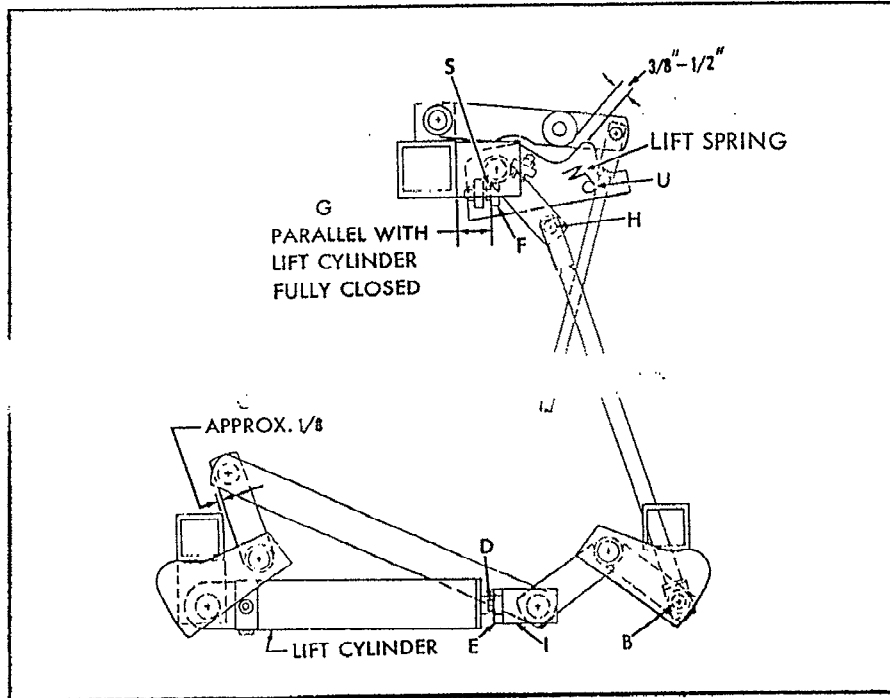
4. Rear Mower Lift Spring Adjustment (See Fig. 16)

To adjust rear mower lift spring to prevent mower from dropping too fast, loosen rear lock nut on bolt (Ref. 2) move bolt away from frame and tighten lock nut.

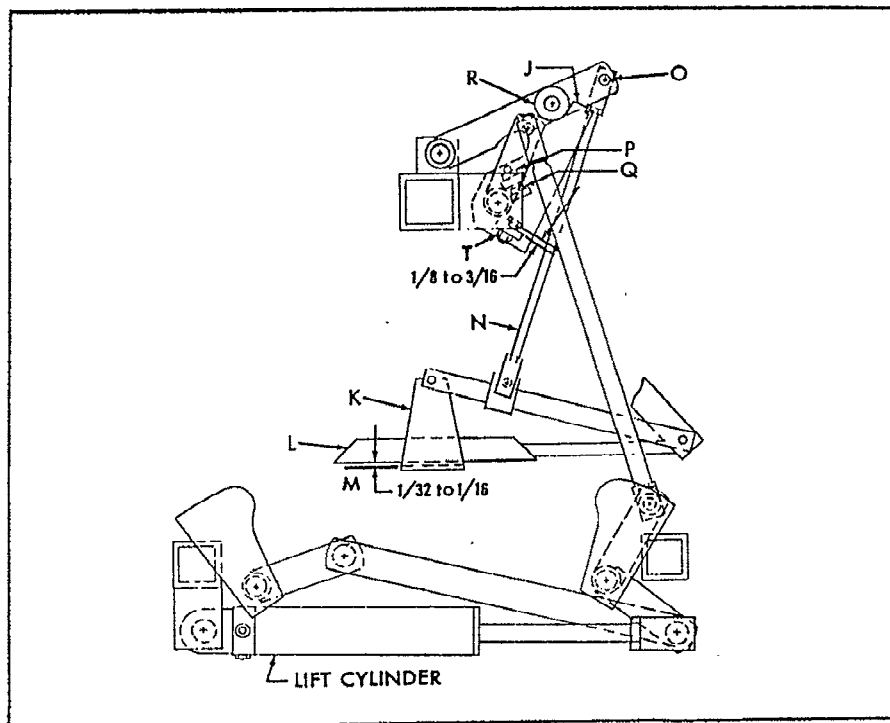
CAUTION

Check to see that the front roller of the rear mower does not raise before front mowers are raised off the ground. If this occurs move bolt toward frame as necessary to correct adjustment.

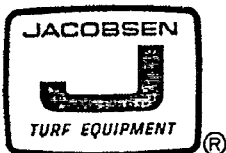




MOWERS LOWERED
Figure 15.



MOWERS RAISED
Figure 16.



HYDRAULIC TUBE AND HOSE FITTING TORQUE RECOMMENDATIONS

See hydraulic system diagram pages 38 and 39 for identification of fitting types.

1. Steel Tubes with Braze Seal Fittings

Torque chart for Braze Seal tube fittings (Use Torque wrench and adapter).

TUBE O.D	TORQUE(Maximum)
3/8 inch	40 Ft. Lbs.
1/2 inch	45 Ft. Lbs.
5/8 inch	63 Ft. Lbs.
3/4 inch	80 Ft. Lbs.

NOTE

Use this chart for steel tubes only. Torque all tube nuts according to tube size. (I. E. - Torque all nuts, regardless of hex size, on 1/2 dia. tubes to 45 Ft. Lbs. If this procedure is not followed tubes may be damaged.)

2. Hoses to Braze Seal Fittings

a. Torque chart for Braze Seal hose fittings (Use torque wrench and adapter).

HOSE NUT HEX SIZE	TORQUE(Maximum)
5/8 Hex	11 Ft. Lbs.
3/4 Hex	19 Ft. Lbs.
7/8 Hex	45 Ft. Lbs.
1-1/8 Hex	53 Ft. Lbs.

NOTE

Use this chart for hose nuts only.

b. After the nuts have been tightened to the specifications listed in the above charts the threads on the body of the fittings should be completely covered by the nut on the tube or hose fittings.

If a fitting develops a leak it can be stopped by tightening the nut slightly. Usually 1/16 to 1/8 turn is sufficient; do not over tighten as this will reduce the number of times that the nut can be removed and replaced without leaking.

3. Special Hose Installation Instructions

a. Hold the fixed portion of the hose coupling with one wrench, use a second wrench to tighten or loosen the hose nut. This will avoid damaging the fitting seal. When tightening a hose do not permit it to twist, hold it in a normal straight position.

b. When installing front mower hoses place pressure hoses (lower hoses on front of tank) inside the return hoses and place reel motor fittings at the angles shown (See Fig. 18) to avoid hose contact with fixed parts when turning. Place rear reel motor fittings at the angles shown.

4. Flex Tube Fittings (Used on Suction Tubes Only)

a. Do not "Torque Up" (Pull up tight) until thread stop is reached. It is not possible to over tighten these fittings.

b. If leakage occurs with the fittings fully tightened replace the rubber sleeve with a new one.

5. Plastic Tube Fittings

a. Do not "Torque Up", pull snug with a small wrench only do not over tighten.

b. If leakage occurs tighten the nut slightly, 1/16 to 1/8 turn should be sufficient.

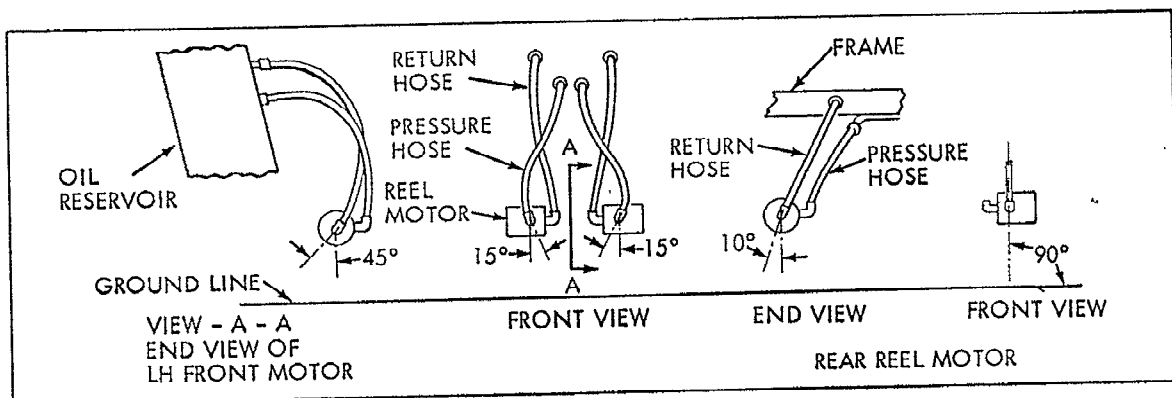
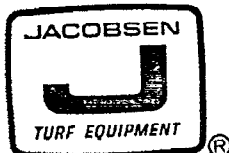


Figure 17.



TIRE MAINTENANCE

Tires are inflated at the factory at 15 to 18 lbs. pressure. This pressure gives the best results for average use. If greens are soft or if the transport areas have steep inclines a lower pressure may improve performance. However, tire pressure should never be less than 12 to 15 lbs. and should be equal in all tires.

If a tire is removed from the rim it should be inflated to approximately 30 lbs. when it is replaced; this assures proper seating of the tire bead to the rim, then reduce the pressure to the desired level before using. **DO NOT USE GREASE OR OIL ON RIM TO REMOUNT TIRE.**

TIRE INSPECTION FOR LEAKS

NOTE

A light duty Sears Roebuck & Company scissors jack or equal may be used to jack up machine for wheel removal.

COMMON CAUSES OF LEAKS

Damaged Tire.
Nail hole
Cuts in carcass
Damaged or distorted beads
Breaks or cuts in the inner layer of rubber
Exposed fabric inside the carcass

Rim or Wheel Leaks.
Defective valve core
Loose valve stem or damaged grommets
Cracks and/or porosity
Loose flange fasteners

PRELIMINARY INSPECTION

Do not demount an apparently leaking Terra-Tire until the cause and/or the location of the leak has been established, as there are types of leaks that can be checked only while the tire is mounted on its rim or wheel.

EXTERNAL CHECKS (Tire Mounted)

Inflate the tire to its prescribed pressure.

Paint (or spray) the entire surface of the tire (rim or wheel-flanges, hub, and valve area) with one of the following solutions:

- (1) **PAINTING** - Mix one teaspoon of commercial liquid detergent in a gallon of water and apply with a clean paint brush.
- (2) **SPRAYING** - use a soapy wetting agent, such as "Detecto Mist" or its equivalent.

Closely examine the complete tire and rim or wheel assembly for evidence of air escaping (bubbles forming at the leaks). Particular attention should be paid to the tread surface, sidewalls, bead area, flange and valve.

Check the complete tire assembly, even if you have found a leak or two.

Mark the leaks with yellow crayon so that they may be found after the tire has been demounted from the rim or wheel.

If no evidence of leaks is found after careful inspection, inflate the tire to its rated pressure and allow it to stand for 24 hours in a room under normal temperature.

NOTES

- 1. To simplify the test, the ambient temperature should be kept constant during the 24-hour period. Check the temperature during this 24-hour test to eliminate expansion or contraction of the air in the tire as the possible cause of any difference in air pressure.
- 2. Check (calibrate) the pressure gauge for accuracy.
- 3. Exercise care to keep air escape to a minimum when using the gauge to determine the inflated pressure.

If the loss of air during the 24-hour test (paragraph 1 above) is less than 5%, the tire is considered serviceable.

TIRE PIN HOLE LEAK REPAIR

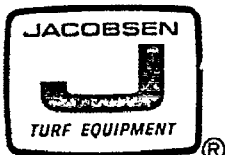
For pin hole leaks and punctures up to 1/16 inch diameter as experienced from thorns, an application of Simseal may be made. The recommended amount of Simseal to use in 12 x 11.00-6 tires is 2 pts.

INSTRUCTIONS FOR ADDING SIMSEAL

- 1. Break one bead from seal on rim and pull out past rim flange at bottom.
- 2. Pour Simseal into tire cavity.
- 3. Reseat bead on rim by inflating the tire.
- 4. Rotate tire slowly to spread Simseal.
- 5. Adjust to specified inflation pressure and put into service.

NOTE

Goodyear Simseal is available from Goodyear tire and service distributors. If holes are large enough to require plugging or inside patching or if tire must be removed from the rim for any reason it is recommended that the wheel with tire installed be taken to a tire repair shop.



BELT MAINTENANCE AND REPLACEMENT

Belts provided are a set of two matched for length. They are of special construction, designed for this drive. Replacement belts should only be purchased in matched sets of two each from an authorized Jacobsen dealer. Order by part number listed in this manual. Belts should only be installed in matched sets of two as a single new belt will be shorter than the used belt and service life will be very low.

1. BELT MAINTENANCE:

Check as follows after each 100 hours of service

A. CHECK BELT TENSION:

With the engine stopped push in on the belts at point "A" (See Fig. 18) midway between the engine and the pump pulleys to determine if the tension is approximately equal. If it is not, the belts are stretching or wearing unequally, expected life will be short and a new "stand by" set of belts should be purchased for installation when needed.

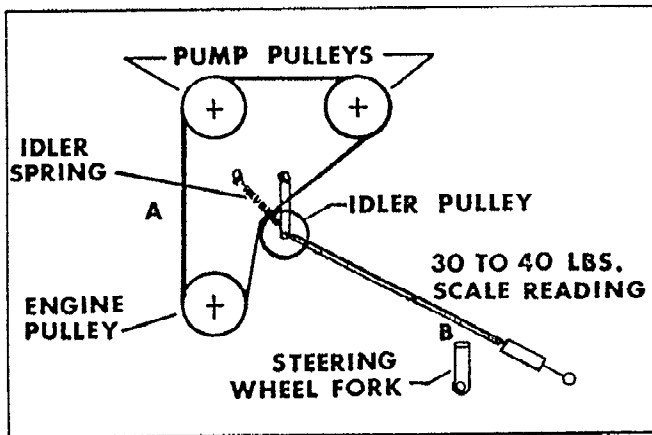


Figure 18.

B. CHECK IDLER SPRING TENSION:

Using a strong piece of wire or rope, loop one end around the idler pulley shaft between

the pulley and the spring. Draw both ends to the rear under the hydraulic tubes and over the steering wheel fork and tie a knot forming a loop of sufficient length to permit hooking on a 50 to 100 lb. spring scale held in position behind the steering wheel fork. Hook the scale in place and pull down and back at an angle that permits the rope to just clear the steering wheel fork, position "B" (The steering wheel should be centered in the straight forward driving position). Note scale weight. The idler tension spring should be replaced, if one of the following conditions exist: Scale reading of under 25 lbs. with belts used 100 hours or more. Scale reading of under 35 lbs. with newly installed belts.

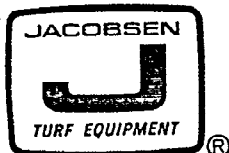
C. BELT REPLACEMENT:

To change belts remove the rear cowl, upper belt guard and idler spring. Remove both belts from the engine pulley by pulling them out away from the engine, remove the inside belt and then the outside belt by moving them in toward the tractor frame and pulling them down and out. Replace with matched set of new belts in reverse order.

D. BELT ALIGNMENT:

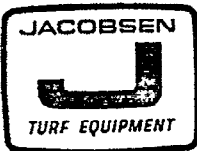
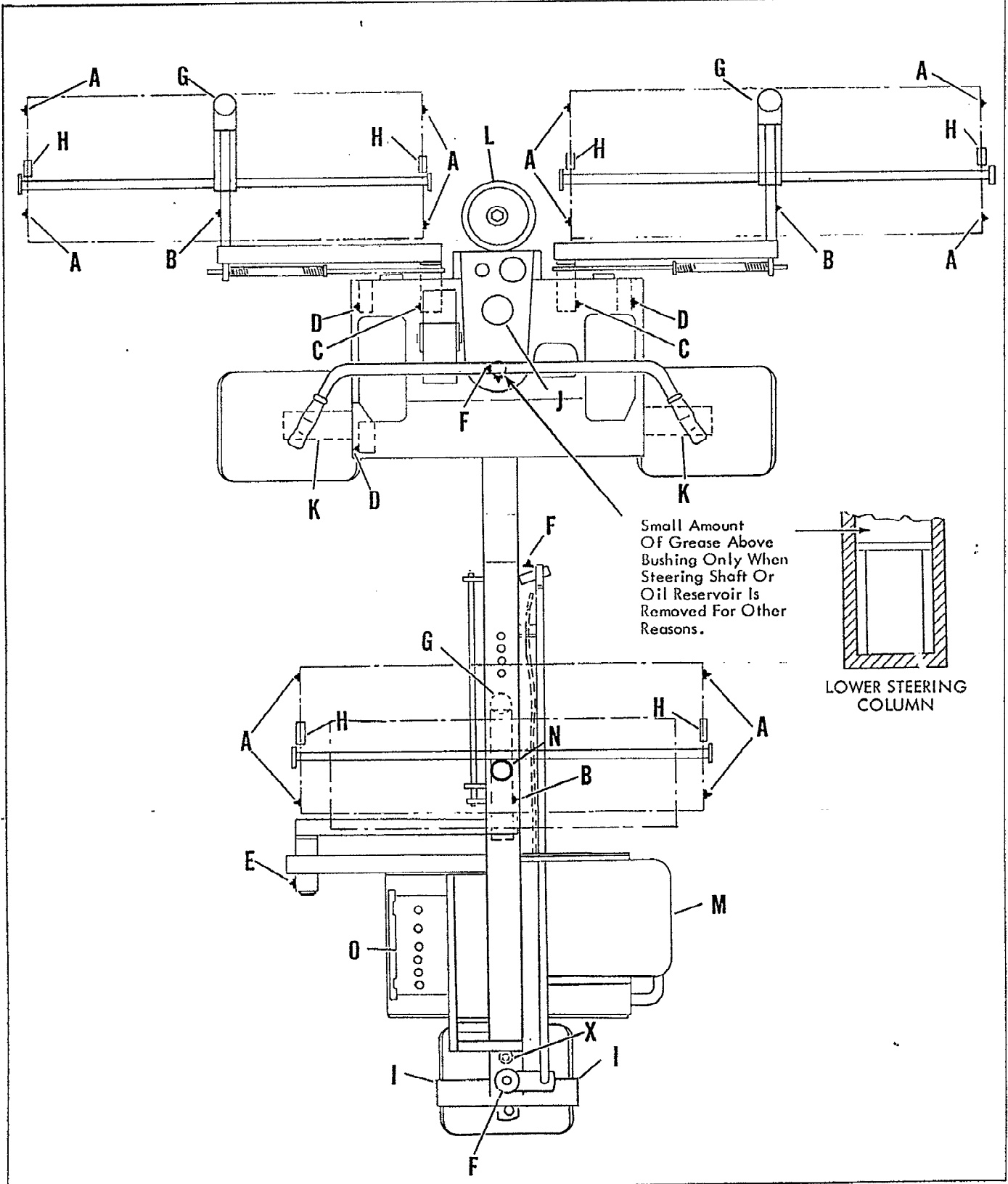
Examine old belts for excessive wear on one side. If this condition is present then:

1. Examine pulley grooves for nicks and outside groove edges for sharpness by turning each pulley 360° by hand while feeling for projections or edge sharpness. Remove projection or sharp edges as required.
2. Install the idler spring and check belt alignment by measuring the distance between the outside edge of the outside belt on each pulley and the inside surface of the pump mounting plate. If the variation in this dimension exceeds 1/32" loosen pulley set screws, move the pulleys on the shafts as required to obtain alignment and tighten set screws. Check the idler pulley visually to be sure that it is approximately centered on the belts.
3. Reinstall the belt guard and rear cowl.



GREASING DIAGRAM

See Greasing Chart For Instructions



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GREASING CHART

See Greasing Diagram For Location



Ref. No.	Part No.	Lubricant	Interval	Remarks
A	Rollers, Front & Rear	(12) *	100 Hours	Fill Bearings Check Daily See Note "C" below See Note "B" below Replacement Cartridge Fram #CH-6 PL See Engine Manual
B	Mower Lift Arm	(3) *	50 Hours	
C	Pivot, Front Mower Lift Arm	(2) *	50 Hours	
D	Mower Lift Cam Shaft	(3) *	50 Hours	
E	Pivot, Rear Mower Lift Arm	(1) *	50 Hours	
F	Steering Shaft	(3) *	50 Hours	
G	Mower Pivot Housing	(3) Chassis Grease	50 Hours	
H	Reel Shaft Bearing	(6) *	100 Hours	
I	Steering Wheel Bearings	(2) Chassis Grease	1000 Hours	
J	Oil Reservoir	(1) +	As Required	
K	Traction Wheel Shaft	(2) +	1000 Hours	
L	Oil Filter	(1) +	300 Hours Required	
M	Engine	As Required	As Required	
N	Fuel Tank	Gasoline, Regular Grade	As Required	
O	Battery	Distilled Water	Check every 40 Hours	

- * - Grease fitting, use a hand grease gun filled with automotive type chassis grease. DO NOT USE AIR PRESSURE GUN; DO NOT USE CUP GREASE.
- () - Number in parenthesis indicates number of points requiring lubrication.
- + International Harvester #372 705 R4 Hy-tran fluid for all weather use or exact equivalent.

A. Lubrication coupled with cleanliness is the most inexpensive preventive maintenance tool. Therefore, lubricate the Greens King at the locations shown on location charts (pages 19 & 20) and use type of lubricant recommended.

high level mark is permissible. When refilling reservoir completely remove rear magnetic plug (Ref. X). Replace plug when frame tube is filled.

B. To check level of lubricant--Drive Axle

1. Place machine on level surface and remove wheels.
2. Remove the level plug. If lubricant flows from level plug, allow excess to drain to that level. This assures that the drive axle is properly lubricated.
3. When lubricant is below the level plug, add lubricant as required.

NOTE

Drain plug is located on the bottom of the front end of the main frame tube.

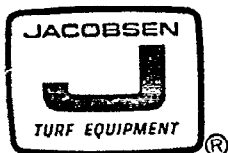


Lubricant MUST BE maintained to level of plug at all times.

C. HYDRAULIC OIL RESERVOIR

Add recommended oil as needed to maintain to full level mark. Do not permit oil to drop below low level mark, overfilling up to 1 inch above

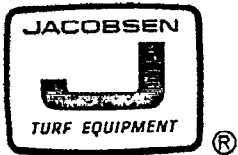
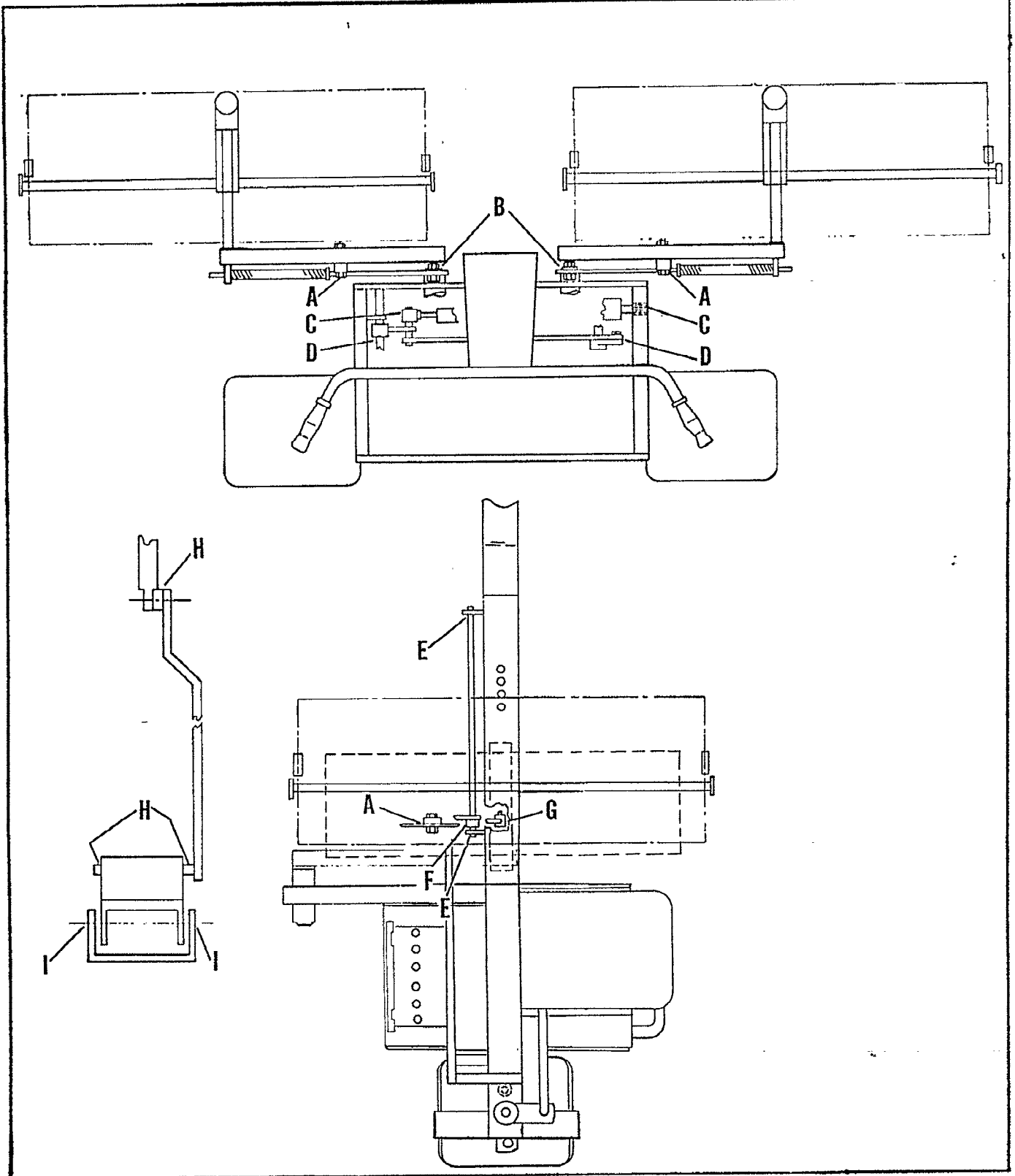
D. Use soap and water to clean the battery as required. Care must be taken to prevent soap and water from getting inside the battery. Brighten the terminal contact surfaces with steel wool. Apply a light coat of petroleum jelly or chassis lubricant to terminals and cable ends to prevent corrosion. Tighten cables securely to battery terminals. Make certain vent holes in battery filler caps are kept open. Refer to separate Battery Booklet for detailed instructions for refill, storage, winter operation, etc.



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OILING DIAGRAM

See Oiling Chart For Instructions



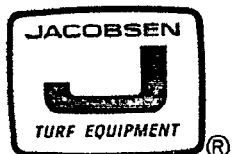
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OILING CHART
See Oiling Diagram for Locations

Ref. No.	Part Description	Lubricant	Interval	Remarks
A	Cam Rollers	(3) SAE #30 Oil	Weekly	See
B	Front Leveling Rods	(2) SAE #30 Oil	.	
C	Hydraulic Cylinder Both Ends	(2) SAE #30 Oil		
D	Mower Lift Link Both Ends	(2) SAE #30 Oil		
E	Rear Mower Lift Shaft Bushing	(2) SAE #30 Oil	or	Note "A"
F	Rear Mower Lift Cam Bushing	(1) SAE #30 Oil		
G	Rear Mower Lift Level Bushing	(1) SAE #30 Oil	as	
H	Lift Valve Link Both Ends	(3) SAE #30 Oil		
I	Lift Pedal Shaft	(2) SAE #30 Oil		
Not shown	All Parking Brake Linkage	(8) SAE #30 Oil		below

() Number in parenthesis indicates number of points requiring lubrication.

A. Apply several drops of oil to both sides of bearing at points indicated, activate linkage several times and wipe off excess oil.



SPECIFICATIONS



DIMENSIONS

Length - Overall - Grass catchers on 92"
 Height - Overall - To top of handle bar . . . 45-1/2"
 Width - Overall - Mowers in mowing position . . . 70"
 Mowers in transport position . 66"

PERFORMANCE

Cutting Width:
 Overall - All Mowers 62"
 Each Mower 22"
 Cutting Height 3/16" to 7/16"
 Turning Radius:
 Uncut Grass 30"
 To centerline of tractor 60"
 Speed:
 Mowing 1.5 to 3.5 M.P.H.
 Transport 3.5 to 8.0 M.P.H.

POWER & DRIVES

Engine:
 Kohler Model K-301-S
 Spec. Number 47277
 Horsepower 12 @ 3600 R.P.M.
 Starter:
 Bendix Type - Electric - Integral with engine
 Traction Drive:
 Orbitrol type hydraulic motor on each drive wheel.
 (Full differential action provided)
 Reel Drive:
 Gear type hydraulic motor on each reel
 Pumps:
 Traction, gear type, delivers 8.2 G.P.M. @ 3000
 Engine R.P.M.
 Reel, gear type, 3 segment, delivers 4.5 G.P.M.
 per segment @ 3000 Engine R.P.M.

GENERAL

Electrical System:
 10 amp - 12 volt flywheel driven alternator with
 solid state rectifier regulator.
 Battery:
 12 volt, 24 A.H. @ 20 Hr. rate. Dimensions: 7-11/16
 L., 5-1/8 W., 6-1/8H., Autolite #C2PF-10657-CS
 or equal.
 Service Brakes:
 Automotive type internal expanding operated by
 mechanical linkage.
 Parking Brake:
 Attached to service brake linkage, locks service
 brake in the engaged position.
 Steering:
 Handle bar steers rear wheel through a mechanical
 linkage.
 Fuel:
 Gasoline, regular grade 5.4 gal. tank
 Wheels & Tires:
 12 x 11.00-6 Terra Tires 15-18 P.S.I.
 Weight:
 Shipping (less crate) *1015 lbs.
 Shipping (incl. crate) *1285 lbs.

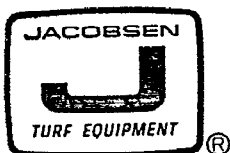
*Weights shown are approximate

ACCESSORIES

	Product No.
Guide Wheel Accessory	68517
Reel Sharpening Crank	304686
Brush Attachment	68501
Rear Roller Cleaner	68502
Comb Attachment	68512
Hyd. Tube Torque Wrench Adapter	500595
Vertical Mower Accessory	68522
Vertical Mower Reel Accessory	68523
Vertical Mower Blade Accessory	68524

OPTIONS

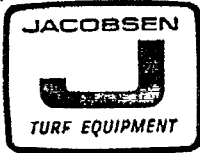
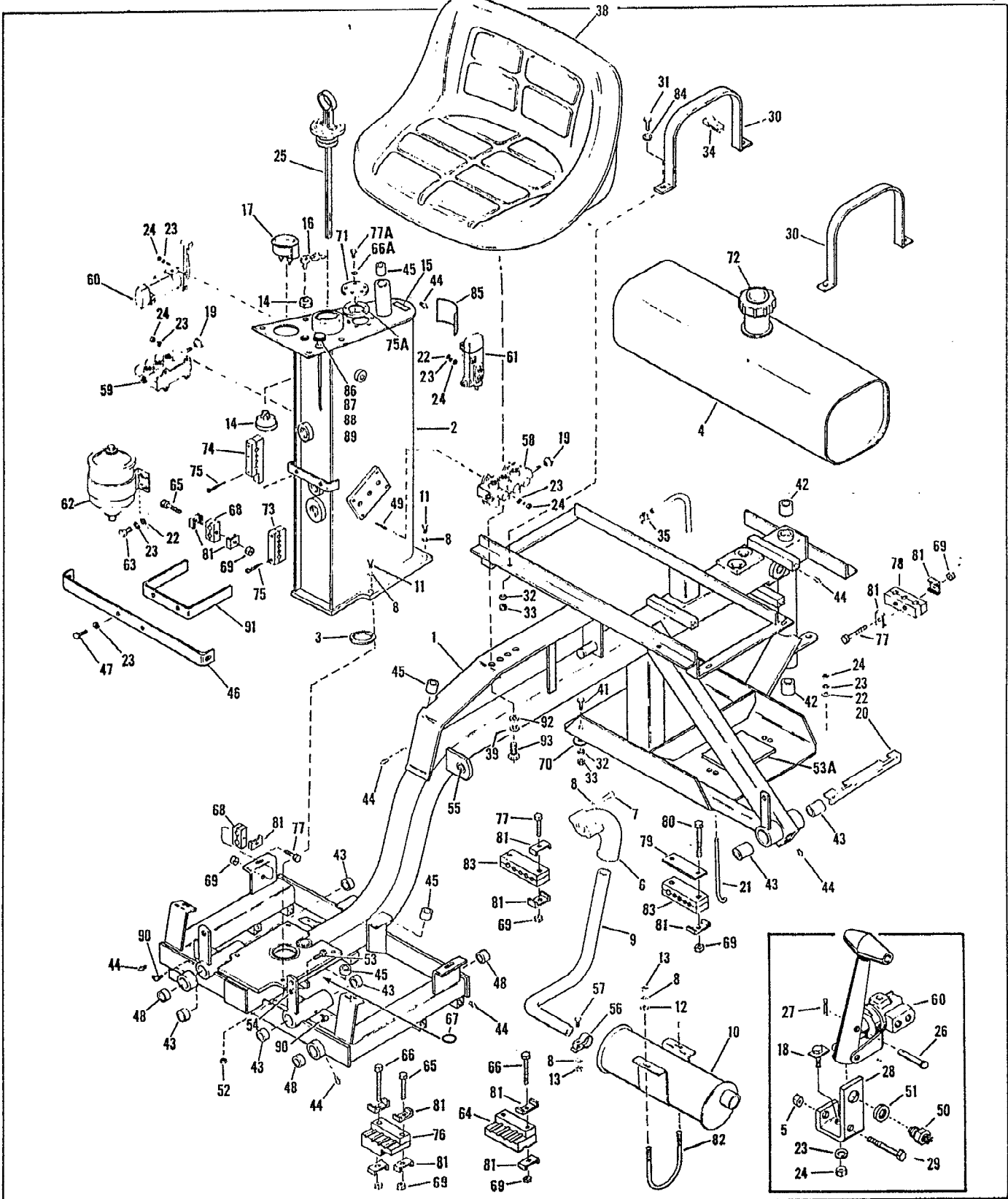
Solid Front Roller	68530
Sectional Front Roller	68535
Grooved Front Roller	68527



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MAIN FRAME ASSEMBLY

®



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MAIN FRAME ASSEMBLY

WARNING: Order by part number. Do not use illustration reference numbers.

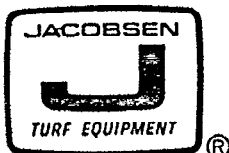
PARTS LIST

Ref. No.	Part No.	Quan.	Description
1	116251	1	Frame Assembly, complete
2	500712	1	Hydraulic Tank and Bushing Assembly
3	459032	1	"O" Ring, Tank Mounting
4	335194	1	Fuel Tank Assembly
5	444708	1	Nut, 1/4-20 Hex Gripco C/Lock
6	218045	1	Exhaust Manifold
7	400198	2	Screw, 5/16-18 x 2-1/4 Hex Hd
8	446136	9	Lockwasher, 5/16 Heavy
9	332125	1	Exhaust Pipe
10	126602	1	Muffler Assembly
11	400184	4	Screw, 5/16-18 x 3/4 Hex Hd Cap
12	452006	2	Washer, 5/16 Standard Flat
13	443106	5	Nut, 5/16-18 Hex
14	126513	1	Switch Lock Assembly
15	352487	1	Decal, Hydraulic Fluid
16	343060	1	Key, Ignition (Set of 2)
17	126534	1	Ammeter Assembly
18	159486	1	Clip and Screw Assembly
19	341658	2	Knob, Valve Control
20	345637	1	Clamp, Battery Hold Down
21	352789	2	Rod, Battery Hold Down
22	453023	8	Washer, 1/4 SAE Flat
23	446130	20	Lockwasher, 1/4 Heavy
24	443102	16	Nut, 1/4-20 Hex
25	158567	1	Filler Cap and Dip Stick Assem
26	352242	1	Pin, Handle to Valve
27	460014	1	Cotter Pin, 3/32 x 34, Handle to Valve
28	352243	1	Bracket, Neutral Start Switch Mounting
29	400120	1	Screw, 1/4-20 x 2 Hex Hd
30	351898	2	Strap, Fuel Tank Mounting
31	400262	4	Screw, 3/8-16 x 1 Hex Hd
32	446142	8	Lockwasher, 3/8 Heavy
33	443110	8	Nut, 3/8-16 Hex
34	345604	1	Clip, Fuel Line Retaining
35	108557	1	Shut-Off Valve and Screen Assem
36	351743	1	Line, Fuel
38	129603	1	Seat Assembly
39	446154	1	Lockwasher, 1/2 Heavy
41	400264	1	Screw, 3/8-16 x 1-1/4 Hex Hd
42	315296	2	Bushing, Rear Steering
43	315296	6	Bushing, Lift Arm
44	471214	9	Fitting, 1/4-28 Grease
45	345437	4	Bushing, Steering
46	335201	1	Support, Cowling
47	400108	2	Screw, 1/4-20 x 3/4 Hex Hd
48	345458	4	Bushing, Camshaft

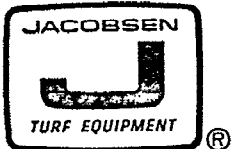
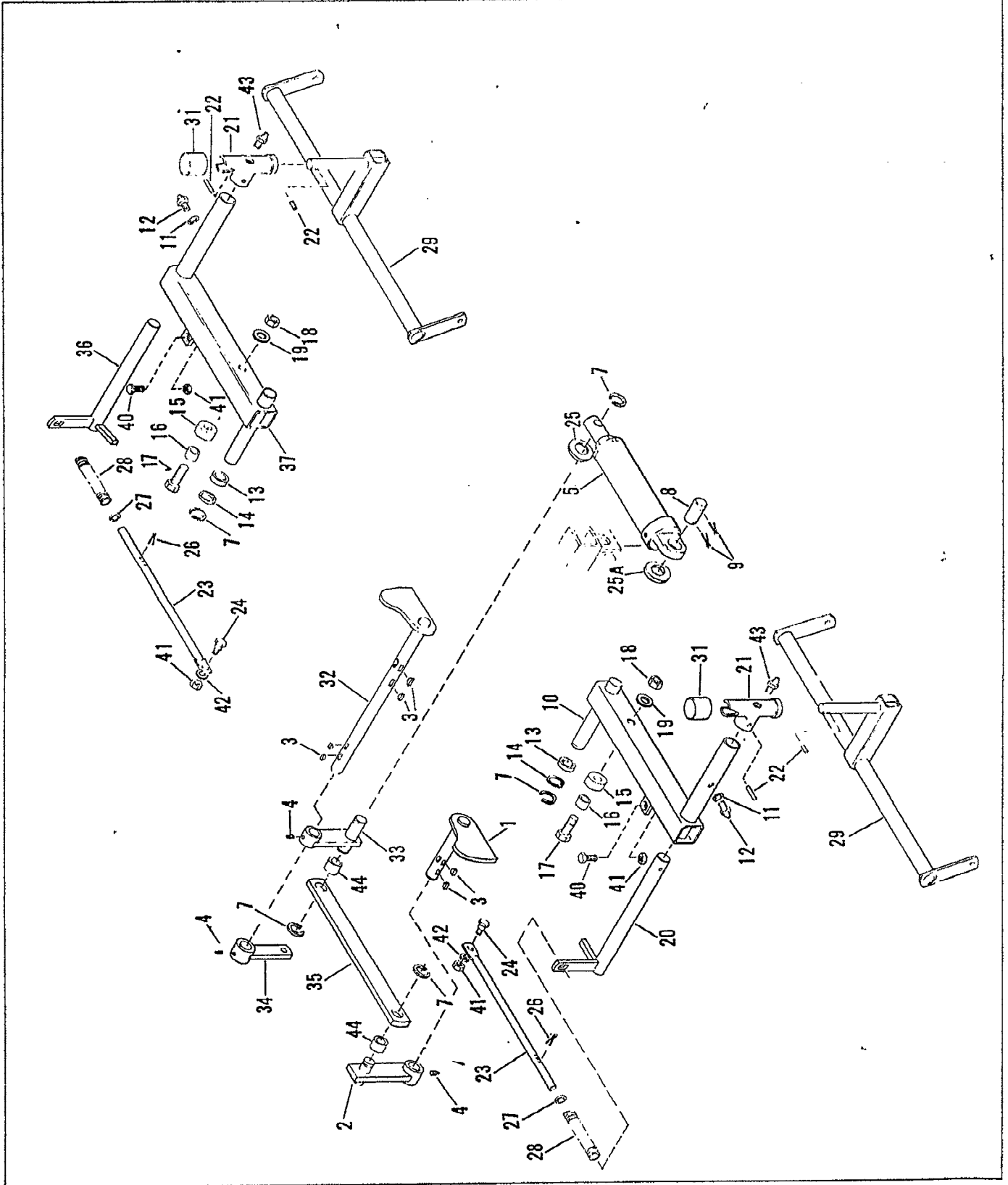
Ref. No.	Part No.	Quan.	Description
49	345487	14	Stud, Valve Mounting
50	351730	1	Switch, Neutral Start
51	447221	1	Lockwasher, 9/16 Int. Tooth
52	444718	1	Nut, 5/16-18 Hex Center Lock
53	412504	2	Screw, 5/16-18 x 7/8 Hex Hd
53A	345637	1	Base, Battery Insulating
54	443806	2	Nut, 5/16-18 Hex Jam
55	345488	1	Bushing, Lift Shaft
56	545669	1	Clamp, Muffler
57	441616	1	Bolt, Carriage, 5/16-18 x 1-1/4
58*	129921	1	Reel Valve Assembly*
59*	126590	1	High Speed Valve Assembly †
60#*	126591	1	Traction Valve Assembly ○ ▲ □ ●
61#	126592	1	Reel Lift Valve Assembly ○ ●
62	154559	1	Oil Filter Assembly
63	400104	4	Screw, 1/4-20 x 1/2 Hex Hd
64	155325	1	Clamp Assembly, Hyd Tube
65	400116	4	Screw, 1/4-20 x 1-1/2 Hex Hd
66	400124	3	Screw, 1/4-20 x 2-1/2 Hex Hd
66A	352453	5	Stat-O-Seal
67	459035	1	"O" Ring
68	155329	3	Clamp Assembly
69	444708	15	Nut, 1/4-20 Gripco C/Lock
70	320988	4	Washer
71	352451	1	Cover
72	129607	1	Cap, Fuel Tank
73	155327	2	Clamp, Tank Front Tubes
74	155328	1	Clamp, Front Hose
75	473145	6	Screw, #12 x 1-1/2 Rd Hd Wood
75A	352452	1	Gasket, Cover
76	155326	1	Clamp, Lower Front Tubes
77	400118	3	Screw, 1/4-20 x 1-3/4 Hex Hd
77A	400106	5	Screw, 1/4-20 x 5/8 Hex Hd
78	155330	1	Clamp, Reel Pump Tubes
79	346379	1	Strap, Tube Clamp Mounting
80	400134	2	Screw, 1/4-20 x 4-1/2 Hex Hd
81	347064	27	Cover, Tube Clamp
82	348268	1	"U" Bolt, Muffler Mounting
83	155324	2	Clamp Assembly
84	453011	4	Washer, 3/8 SAE Flat
85	344774	1	Decal, Be Careful
86	129627	1	Choke Control Assembly
87	443110	1	Nut, 3/8-16 Hex
88	446142	1	Lockwasher, 3/8 Heavy
89	351552	4	Clip, Control Cable
90	471221	2	Fitting, 1/4-28 x 90° Grease
91	351646	1	Bar, Lift Valve Link Guide
92	453017	1	Washer, 1/2 SAE Std Flat
93	400406	1	Screw, 1/2-13 x 1-1/4 Hex Hd

* For service of Seals & Detent, order No. 500582
 † For service of Seals, order No. 500582
 ○ For service of Seals, order No. 500583

▲ For service of Detent, order No. 500779
 □ For service of Centering Spring, order No. 546005
 ● For Service of Centering Spring Retainer, order No. 500802



FRONT MOWER LIFT ASSEMBLY



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FRONT MOWER LIFT ASSEMBLY



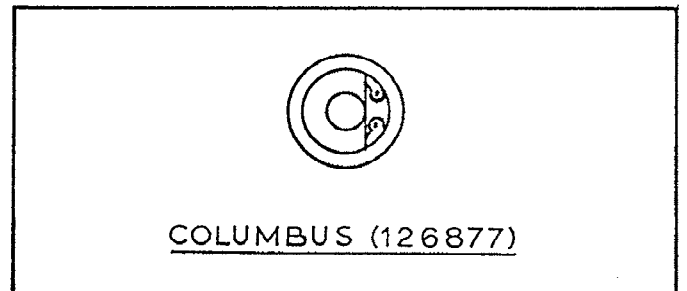
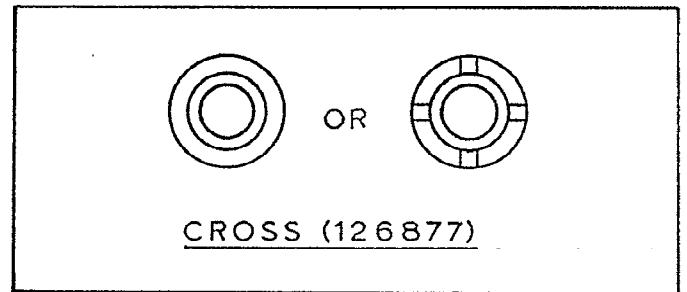
PARTS LIST

Ref. No.	Part No.	Quan.	Description
1	159374	1	Cam Shaft Assembly, RH
2	159376	1	Mower Lift Lever Assembly, RH
3	463017	6	Key, 3/16 x 3/4 Woodruff
4	412016	3	Screw, 5/16-18 x 5/8 Sq Hd Cup Pt Set
5	126877	1	Hydraulic Cylinder, Mower Lift
7	458433	5	Ring, External Snap
8	345293	1	Pin, Cylinder Mounting
9	460052	2	Pin, 3/16 x 1-1/2 Cotter
10	154827	1	Front Mower Lift Arm Assem RH
11	457012	2	Burr, Riveting, Grease Fitting Mounting
12	471216	2	Fitting, 1/4-28 Grease, Extra Short
13	345312	2	Washer, Thrust
14	303629	2	Washer
15	345296	2	Roller Cam, Front Mower Lift
16	345295	2	Spacer, Cam Roller
17	400624	2	Screw, 5/8-11 x 3 Hex Hd Cap
18	453020	2	Washer, 5/8 SAE Flat
19	444752	2	Nut, 5/8-11 Hex Gripco C/Lock
20	155318	1	Shaft and Lever Assembly, RH
21	239066	2	Housing, Swivel
22	461336	4	Pin, 5/16 x 1-1/2 Type E Groove
23	345308	2	Rod, Leveling
24	344996	2	Pin, Lift
25	345312	1	Washer, Thrust, to Mower Lift Lever
25A	303629	AR	Washer, Lift Cylinder Pin End to Mower Lift Lever
26	460026	2	Pin, 1/8 x 3/4 Cotter
27	453017	2	Washer, 1/2 SAE Flat
28	311870	2	Spring, Front Mower Leveling
29	126732	2	Mower Lift Yoke Assembly
31	345331	2	Cap, Swivel Housing
32	159373	1	Camshaft Assembly LH
33	159375	1	Mower Lift Lever Assembly, LH
34	159377	1	Rear Mower Lift Lever Assembly, Lower
35	500738	1	Bar, LH to RH Lift Lever Conn
36	155317	1	Shaft and Lever Assembly, Left Hand Front
37	155203	1	Front Mower Lift Arm Assem LH
40	400266	2	Screw, 3/8-16 x 1-1/2 Hex Hd
41	443810	4	Nut, 3/8-16 Hex Jam
42	446142	2	Lockwasher, 3/8 Heavy
43	471214	2	Fitting, 1/4-28 Grease
44	350542	2	Bushing, Lift Connector Bar

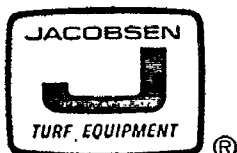
AR As Required

IMPORTANT

When ordering Seal Kits for cylinders, both cylinder part number and make (Cross or Columbus) must be specified. See charts below for proper identification of cylinder.



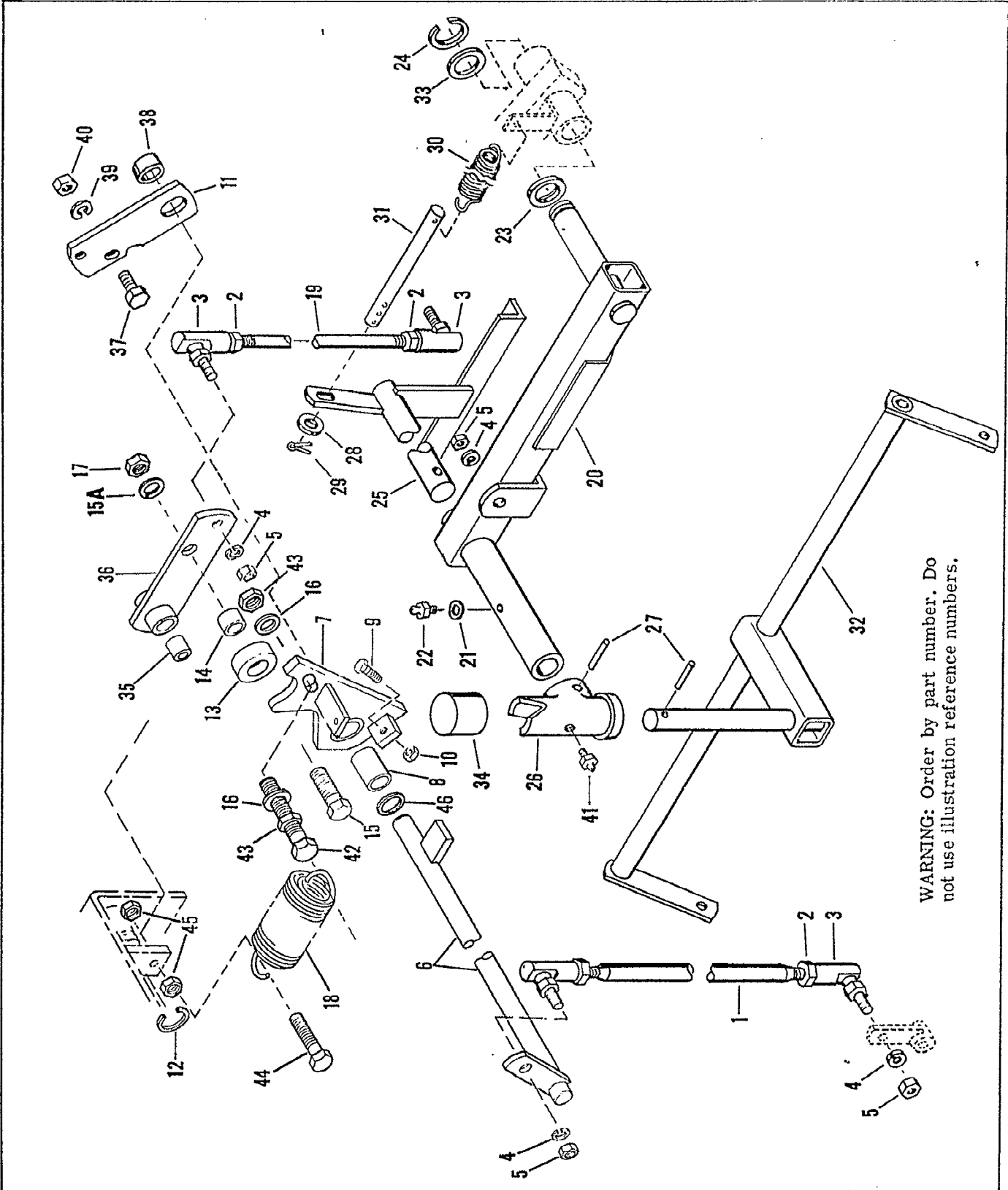
For seal repair kit order 500618 for Cross Cylinder and 500798 for Columbus Cylinder.
For service of Rod Pin Eye order 545988.



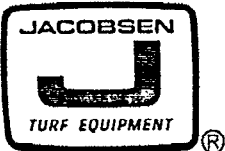
WARNING: Order by part number. Do not use illustration reference numbers.

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REAR MOWER LIFT ASSEMBLY



WARNING: Order by part number. Do not use illustration reference numbers.



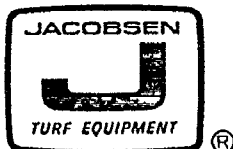
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REAR MOWER LIFT ASSEMBLY

PARTS LIST

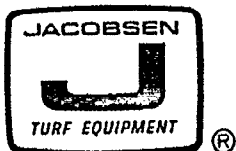
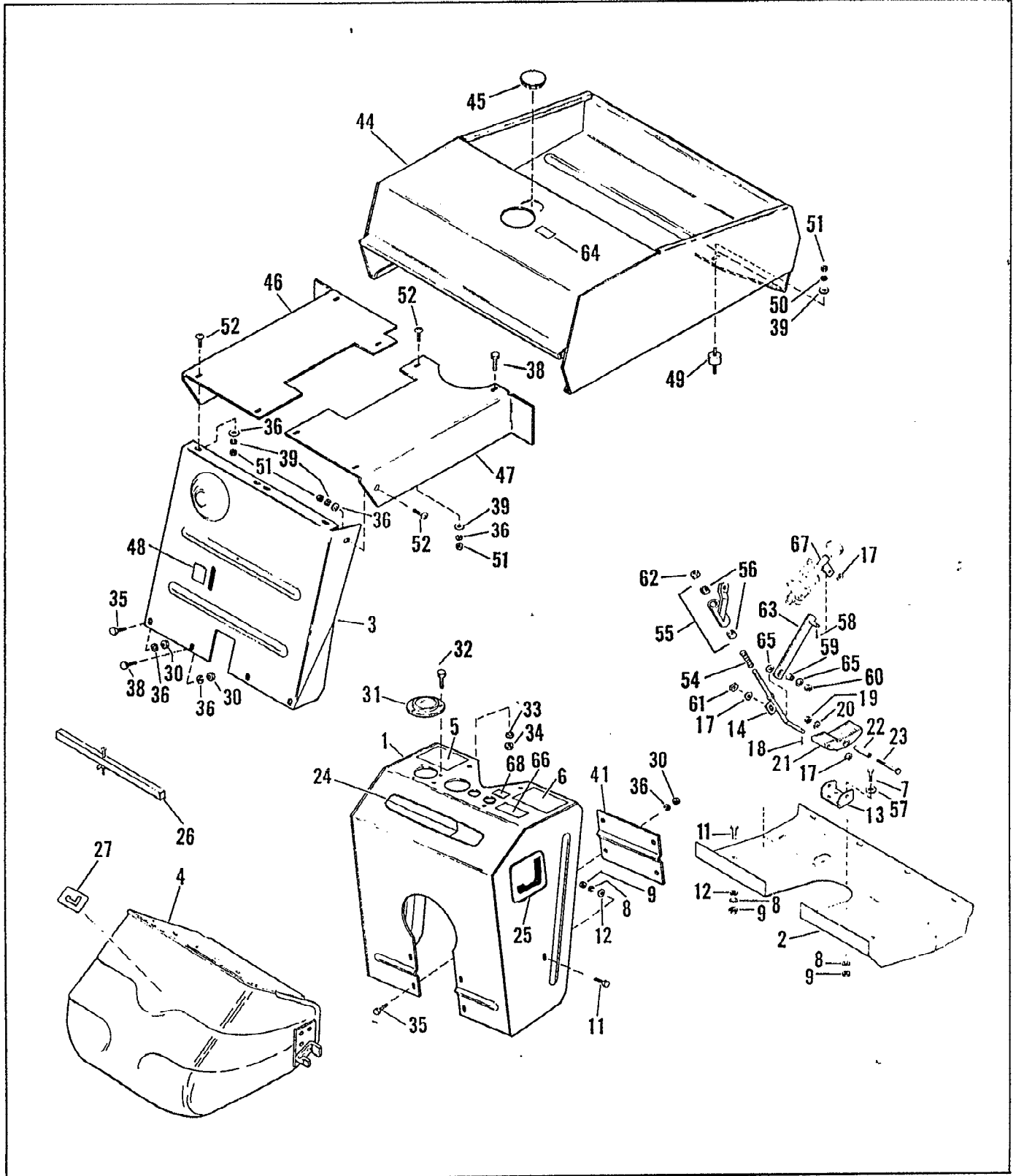
Ref. No.	Part No.	Quan.	Description
1	345316	1	Rod, Link
2	443820	4	Nut, 1/2-20 Hex Jam
3	106348	4	Ball Joint Assembly
4	446154	4	Lockwasher, 1/2 Heavy
5	443120	4	Nut, 1/2-20 Hex
6	126573	1	Rear Lift Assembly
7	129513	1	Rear Mower Lift Cam Assem
8	345317	1	Bushing, Lift Cam Assembly
9	400262	2	Screw, 3/8-16 x 1 Hex Hd Cap
10	443810	2	Nut, 3/8-16 Hex Jam
11	345491	1	Bracket, Rear Lift
12	458419	1	Ring, External Snap
13	345296	1	Roller, Cam
14	345295	1	Spacer, Cam Roller
15	400614	1	Screw, 5/8-11 x 1-3/4 Hex Hd
15A	446166	1	Lockwasher, 5/8 Hvy Cam Roller Mtg
16	453020	2	Washer, 5/8 SAE Flat
17	443126	1	Nut, 5/8-11 Hex
18	312723	1	Spring, Cam Lift
19	345315	1	Rod, Rear Mower Lift
20	158438	1	Rear Mower Lift Arm Assem
21	457012	1	Burr, Riveting, Grease Fitting Mounting
22	471216	1	Fitting, Grease, 1/4-28 Extra Short
23	345312	1	Washer, Thrust
24	458433	1	Ring, Snap, External
25	129841	1	Shaft and Lever Assembly, Rear
26	239066	1	Housing, Swivel
27	461336	2	Pin, 5/16 x 1-1/2 Type E Groove
28	453017	1	Washer, 1/2 SAE Flat
29	460026	1	Pin, Cotter, 1/8 x 3/4
30	345297	1	Spring, Rear Mower Leveling
31	345298	1	Rod, Leveling Spring Adjusting
32	126934	1	Mower Lift Yoke Assembly
33	303629	1	Washer
34	345331	1	Cap, Swivel Housing
35	304406	1	Bushing
36	154817	1	Rear Mower Lift Lever Assem
37	400258	2	Screw, 3/8-16 x 3/4 Hex Hd Cap
38	345488	1	Bushing
39	446142	2	Lockwasher, 3/8 Hvy.
40	443110	2	Nut, 3/8-16 Hex
41	471214	1	Fitting, 1/4-28 Grease
42	400622	1	Screw, 5/8-11 x 2-3/4 Hex Hd Cap
43	443826	2	Nut 5/8-11 Hex Jam
44	400410	1	Screw, 1/2-13 x 1-3/4 Hex Hd Cap
45	443118	2	Nut, 1/2-13 Hex
46	309371	AR	Washer

WARNING: Order by part number. Do not use illustration reference numbers.



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COWLINGS AND FLOOR BOARDS



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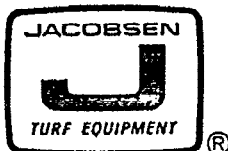
COWLINGS & FLOOR BOARD

PARTS LIST

Ref. No.	Part No.	Quan.	Description
1	121483	1	Front Cowling Assembly
2	129507	1	Floor Board Assembly
3	330501	1	Cowling, Center
4	68110	3	Grass Catcher Assembly
5	345557	1	Decal, Traction and Hi-Speed Valve
6	345558	1	Decal, Reel Drive and Lift Valve
7	400104	4	Screw, 1/4-20 x 1/2 Hex Hd Cap
8	446130	12	Lockwasher, 1/4 Heavy
9	443102	9	Nut, 1/4-20 Hex
11	400108	4	Screw, 1/4-20 x 3/4 Hex Hd Cap
12	453023	8	Washer, 1/4 SAE Flat
13	345575	1	Bracket, Reel Valve Pedal Mounting
14	129606	1	Rod, Reel Lift Valve Assembly
15	400114	1	Screw, 1/4-20 x 1-1/4 Hex Hd Cap
16	345625	1	Spacer
17	453011	3	Washer, 3/8 SAE Flat
18	460010	1	Pin, 3/32 x 1/2 Cotter
19	443106	1	Nut, 5/16-18 Hex
20	446136	1	Lockwasher, 5/16 Heavy
21	239060	1	Pedal, Foot, Reel Lift Valve
22	345626	1	Spacer, Pedal to Bracket Mlg
23	400202	1	Screw, 5/16-18 x 3 Hex Hd Cap
24	335218	1	Decal, Jacobsen and Product
25	331880	2	Decal, Jacobsen Turf Equipment
26	158568	1	Bedknife Adj Gauge Assembly
27	344215	3	Decal, Name
28	400106	4	Screw, 1/4-20 x 5/8 Hex Hd Cap
29	400188	1	Screw, 5/16-18 x 1 Hex Hd Cap
30	443106	22	Nut, 5/16-18 Hex
31	351502	1	Hour Meter
32	402006	3	Screw, #6-32 Hex
33	447204	3	Lockwasher, #6 Internal
34	444304	3	Nut, #6-32 Hex

Ref. No.	Part No.	Quan.	Description
35	400180	7	Screw, 5/16-18 x 1/2 Hex Hd Cap
36	446136	14	Lockwasher, 5/16 Heavy
37	444718	1	Nut, 5/16-18 Hex Gripco C/Lock
38	400184	4	Screw
39	453009	24	Washer, 5/16 SAE Flat
40	446136	6	Lockwasher, 5/16 Heavy
41	351501	1	Front Cowling Cover Assembly
44	116250	1	Rear Cowling Assembly
45	323862	1	Hole Plug, Rear Cowling
46	330508	1	Panel, Center Cowling, R.H.
47	330507	1	Panel, Center Cowling, L.H.
48	346317	1	Decal, Parking Brake
49	351803	4	Rubber Vibration Isolators
50	446136	8	Lockwasher, 1/4 Hvy
51	443106	8	Nut, 1/4-20 Hex
52	404064	8	Screw, 5/16-18 x 1/2 Phillips Pozi Drive
54	352823	1	Spring
55	158795	1	Reel Lift Arm and Bushing Assm (Incl Ref No. 56)
56	351982	2	Bushing
57	453023	4	Washer, 1/4 SAE Flat
58	460010	1	Pin, 3/32-1/2 Cotter
59	350638	1	Spacer
60	444762	1	Nut, 3/8-16 Hex Gripco C/Lock
61	400264	1	Screw, 3/8-16 x 1-1/4 Hex Hd Cap
62	444758	1	Nut, 1/2-13 Hex Gripco C/Lock
63	158797	1	Reel Lift Valve Link Assembly
64	346164	1	Decal, Fuel
65	310711	2	Washer
66	351784	1	Decal, Reel and Lift Control
67	159398	1	Reel Valve Arm Assembly
68	352486	1	Decal, Danger

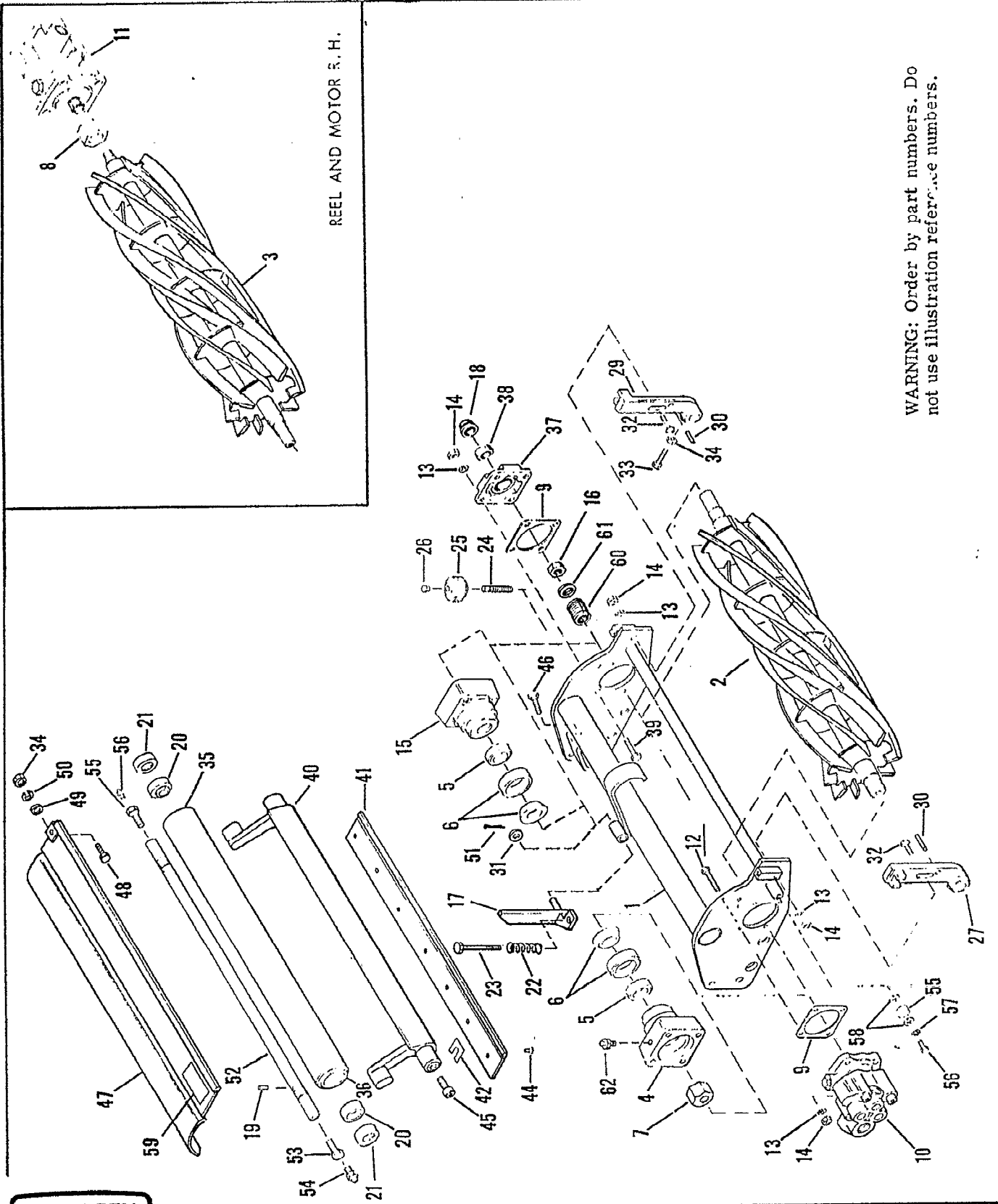
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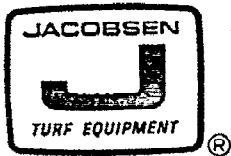
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MOWER FRAME & REEL ASSEMBLY

WARNING: Order by part numbers. Do not use illustration reference numbers.



REEL AND MOTOR S. H.



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MOWER FRAME & REEL ASSEMBLY

PARTS LIST

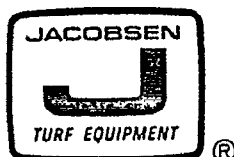
Ref. No.	Part No.	Quan.	Description
1	119245	1	Frame Assem LH, RH and Rear
2	121517	1	Reel Assembly, LH and Rear
3	121518	1	Reel Assembly, RH
4	239056	1	Housing, Bearing, LH, RH & Rear
5	325472	2	Seal, Bearing
6	500534	2	Cup and Cone Set, Roller Brg
7	345477	1	Coupling, Reel Motor, LH and Rear
8	345478	1	Coupling, Reel Motor, RH
9	345473	2	Gasket
10	119237	1	Motor, Reel, LH Rotation, LH and Rear
11	119236	1	Motor, Reel, RH Rotation, RH
12	400198	10	Screw, 5/16-18 x 2-1/4 Hex Hd Cap
13	446136	10	Lockwasher, 5/16 Heavy
14	443106	10	Nut, 5/16-18 Hex
15	239055	1	Housing, Bearing
16	444713	1	Nut, 5/8-18 Hex Jam Center-Loc
17	158779	1	Height Adjustment Assembly
18	352132	1	Plug, Protective, LH, RH and Rear
19	461359	2	Pin, 1/8 x 3/4 Roll
20	303558	2	Bearing, Roller
21	305115	2	Seal, Roller
22	351417	1	Spring, Compression
23	400414	1	Screw, 1/2-13 x 2-1/4 Hex Hd Cap
24	343616	2	Stud, Front Roller Adjusting
25	343617	2	Nut, Front Roller Adjusting
26	472518	2	Plug, Expansion, Front Roller Adjusting Nut
27	153980	1	Front Roller Bracket Assembly, RH (Includes 1 Ref No. 30)
29	153979	1	Front Roller Bracket Assembly, LH (Includes 1 Ref No. 30)
30	461256	2	Pin, Groove, 1/4 x 1

Ref. No.	Part No.	Quan.	Description
31	453017	3	Washer, 1/2 SAE Standard Flat
32	441674	2	Bolt, 5/16-18 x 1-3/4 Reg Nk Carr
33	352737	2	Screw, 1/4-20 x 7/8 Sq Hd Cup Pt Set
34	443102	4	Nut, 1/4-20 Hex
35	158777	1	Rear Roller Assembly, (Incl Ref No. 20, 21, 36, 52)
36	129594	1	Rear Roller Tube Assembly
37	269037	1	Cover, Bearing Housing
38	335435	1	Seal, Reel Bearing Housing
39	400192	4	Screw, 1/16-18 x 1-1/2 Hex Hd Cap
40	218051	1	Shoe, Bedknife
41	335552	1	Bedknife
42	302711	AR	Shim, Bedknife, 0.003 Thick
	302712	AR	Shim, Bedknife, 0.007 Thick
44	402578	13	Screw, 1/4-20 x 1/2 Flat Hd Mach
45	315298	2	Screw, Bedknife
46	412506	8	Screw, Bedknife Shoe Adjusting
47	126724	1	Grass Shield Assembly
48	400108	2	Screw, 1/4-20 x 3/4 Hex Hd Cap
49	453023	6	Washer, 1/4 SAE Flat
50	446130	2	Lockwasher, 1/4 Heavy
51	460026	1	Cotter Pin, 1/8 x 3/4
52	154909	1	Rear Roller Shaft Assembly (Incl Ref No. 19, 63)
53	345470	2	Bolt, Lug, Rear Roller Mtg
54	471226	2	Fitting, Grease, Roller Lub
55	345510	2	Spacer, Mower Assembly Mtg
56	400264	2	Screw, 3/8-16 x 1-1/4 Hex Hd Cap
57	446142	2	Lockwasher, 3/8 Heavy
58	453011	4	Washer, 3/8 SAE Flat
59	351523	3	Decal, Danger
60	348846	1	Spring, Reel Bearing Tension
61	453020	1	Washer, 5/8 SAE Flat
62	471231	4	Fitting, Grease
63	345469	1	Shaft, Roller

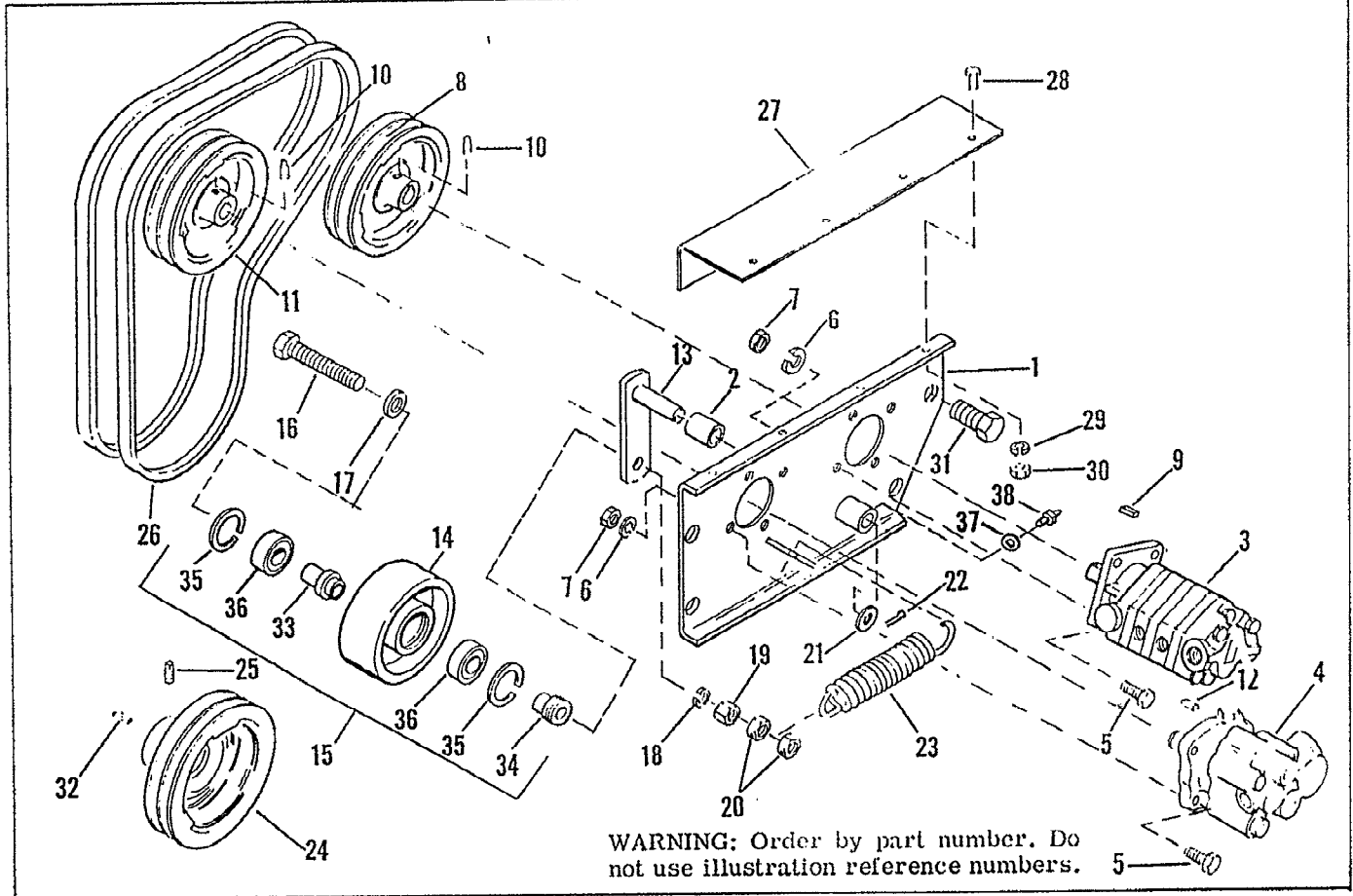
AR-As Required

NOTE- The quantity shown indicates the quantity used in each Frame & Reel Assembly.

WARNING: Order by part number. Do not use illustration reference numbers.



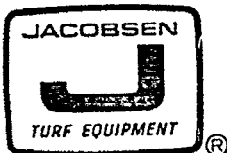
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PARTS LIST

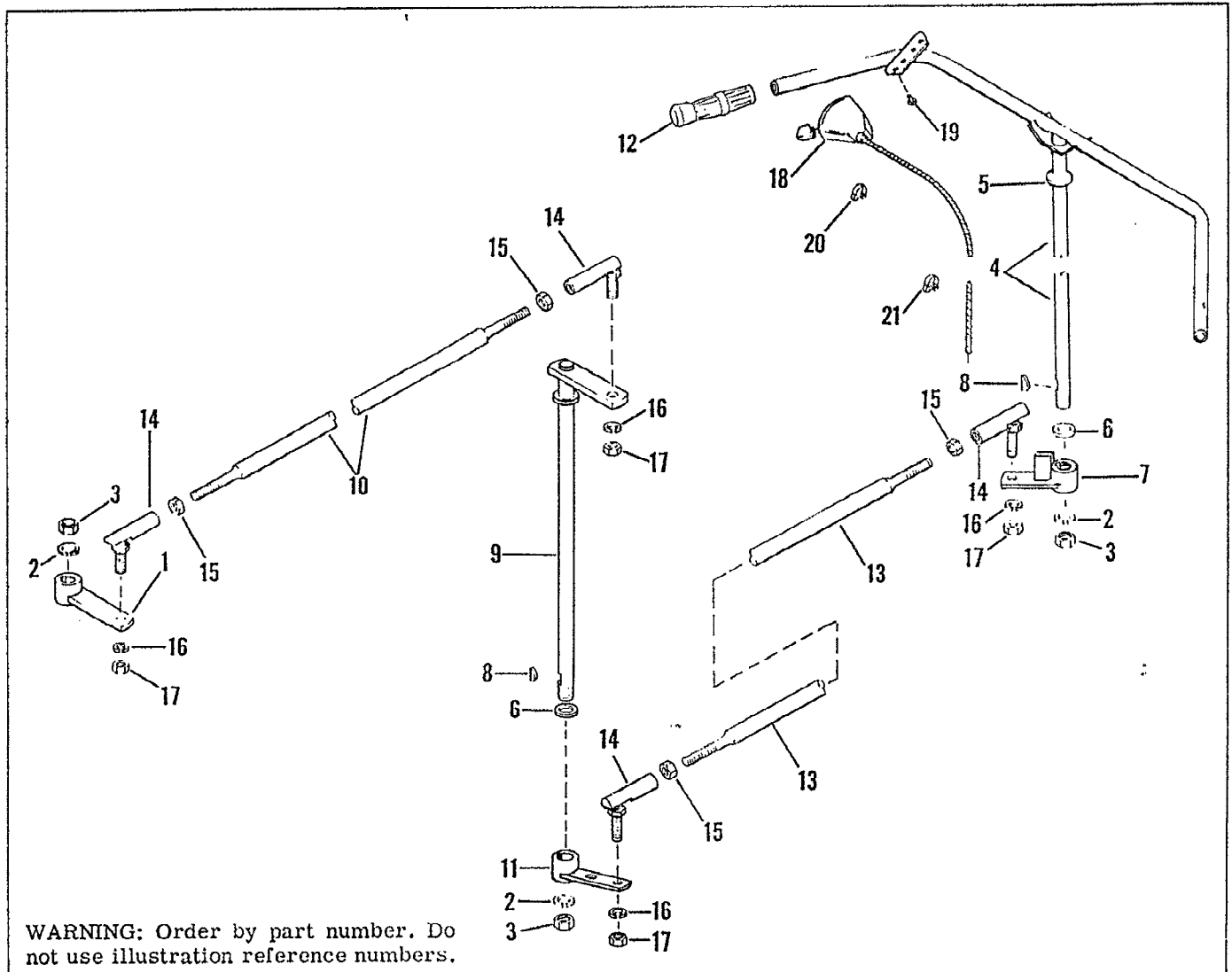
Ref. No.	Part No.	Quan.	Description
1	129616	1	Pump Mounting Plate Assembly
2	352419	1	Bushing, Idler Shaft
3	121479	1	Reel Pump Assembly, RH Rotation
4	119235	1	Traction Pump Assembly, RH Rotation
5	400186	8	Screw, 5/16-18x7/8 Hex Hd Cap
6	446136	8	Lockwasher, 5/16 Heavy
7	443106	8	Nut, 5/16-18 Hex
8	239057	1	Pulley, Reel Pump
9	321292	1	Key, Pulley Mounting
10	412007	4	Screw, 1/4-20x5/8 Sq Hd Cup Pt Set
11	241688	1	Pulley, Traction Pump
12	345556	1	Key, Pulley Mounting
13	154925	1	Idler Arm and Pin Assembly
14	158835	1	Idler Pulley Assembly
15	158834	1	Idler Pulley Assembly Complete
16	351545	1	Screw, Idler Pulley Mounting
17	453011	1	Washer, 3/8 SAE Flat
18	446142	1	Lockwasher, 3/8 SAE Heavy
19	443110	1	Nut, 3/8-16 Hex

Ref. No.	Part No	Quan.	Description
20	444762	2	Nut, 3/8-16 Hex Center-Loc
21	453017	1	Washer, 1/2 SAE Flat
22	460038	1	Pin, 5/32x1 Cotter
23	345566	1	Spring, Belt Tension
24	239059	1	Pulley, Engine
25	412015	2	Screw, 5/16-18x5/8 Sq Hd Cup Pt Set
26	332111	1	Belt, Pump Drive (Matched Set of 2)
27	332135	1	Shield, Belt
28	400106	4	Screw, 1/4-20x5/8 Hex Hd Cap
29	446130	4	Lockwasher, 1/4 Heavy
30	443102	4	Nut, 1/4-20 Hex
31	315298	4	Screw, Hex Head Cap
32	312321	1	Key, Pulley Mounting
33	351543	1	Spacer, Inner
34	351544	1	Spacer, Outer
35	458461	2	Snapping
36	311537	2	Bearing, Roller
37	457012	1	Burr, Riveting, Grease Fitting Mounting
38	471216	1	Grease Fitting, 1/4-28



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STEERING LINKAGE ASSEMBLY



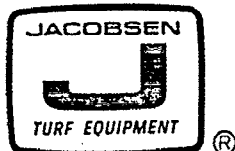
WARNING: Order by part number. Do not use illustration reference numbers.

PARTS LIST

Ref. No.	Part No.	Quan.	Description
1	159415	1	Steering Lever Assembly, Rear
2	446178	3	Lockwasher, 3/4 Heavy
3	443832	3	Nut, 3/4-16 Hex Jam
4	129621	1	Handle Bar Assembly
5	307374	1	Washer
6	313820	AR	Washer
7	155719	1	Steering Lever Assembly, Front
8	463017	2	Key, 3/16 x 3/4 Woodruff
9	154893	1	Shaft and Lever Assembly
10	345361	1	Tube, Upper Steering Link

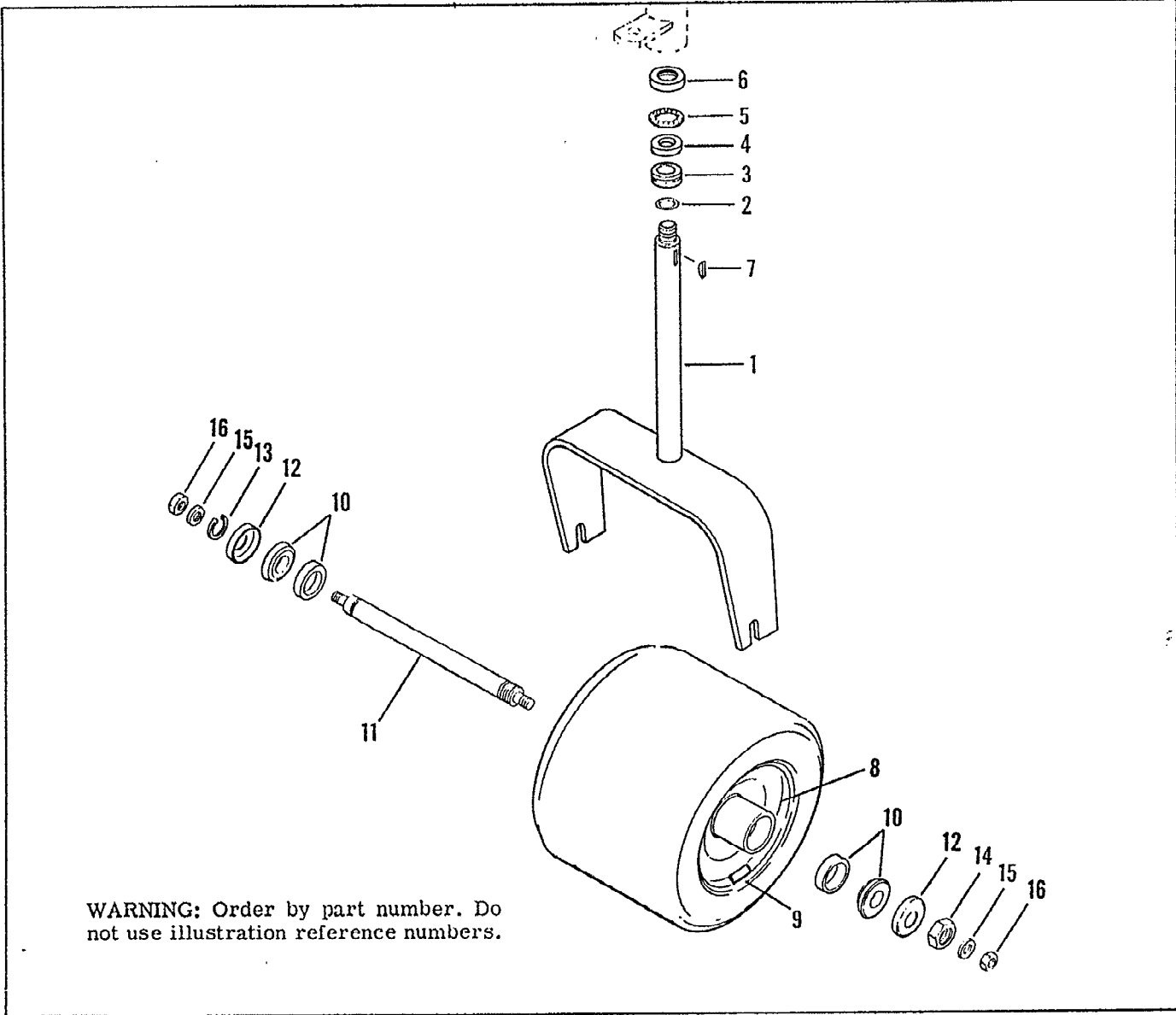
Ref. No.	Part No.	Quan.	Description
11	154854	1	Steering Lever Assembly Lower Center
12	343849	2	Grip, Handle Bar
13	345347	1	Rod, Lower Steering
14	106348	4	Ball Joint Assembly
15	443820	4	Nut, 1/2-20 Hex Jam
16	446154	4	Lockwasher, 1/2 Heavy
17	443120	4	Nut, 1/2-20 Hex
18	129855	1	Throttle Control Assembly
19	409252	2	Screw, #10 x 1/2 Phillips Self Tapping
20	351503	1	Clip, Snap
21	473142	2	Retainer, Cable

AR - As Required



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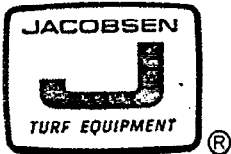
STEERING WHEEL ASSEMBLY



PARTS LIST

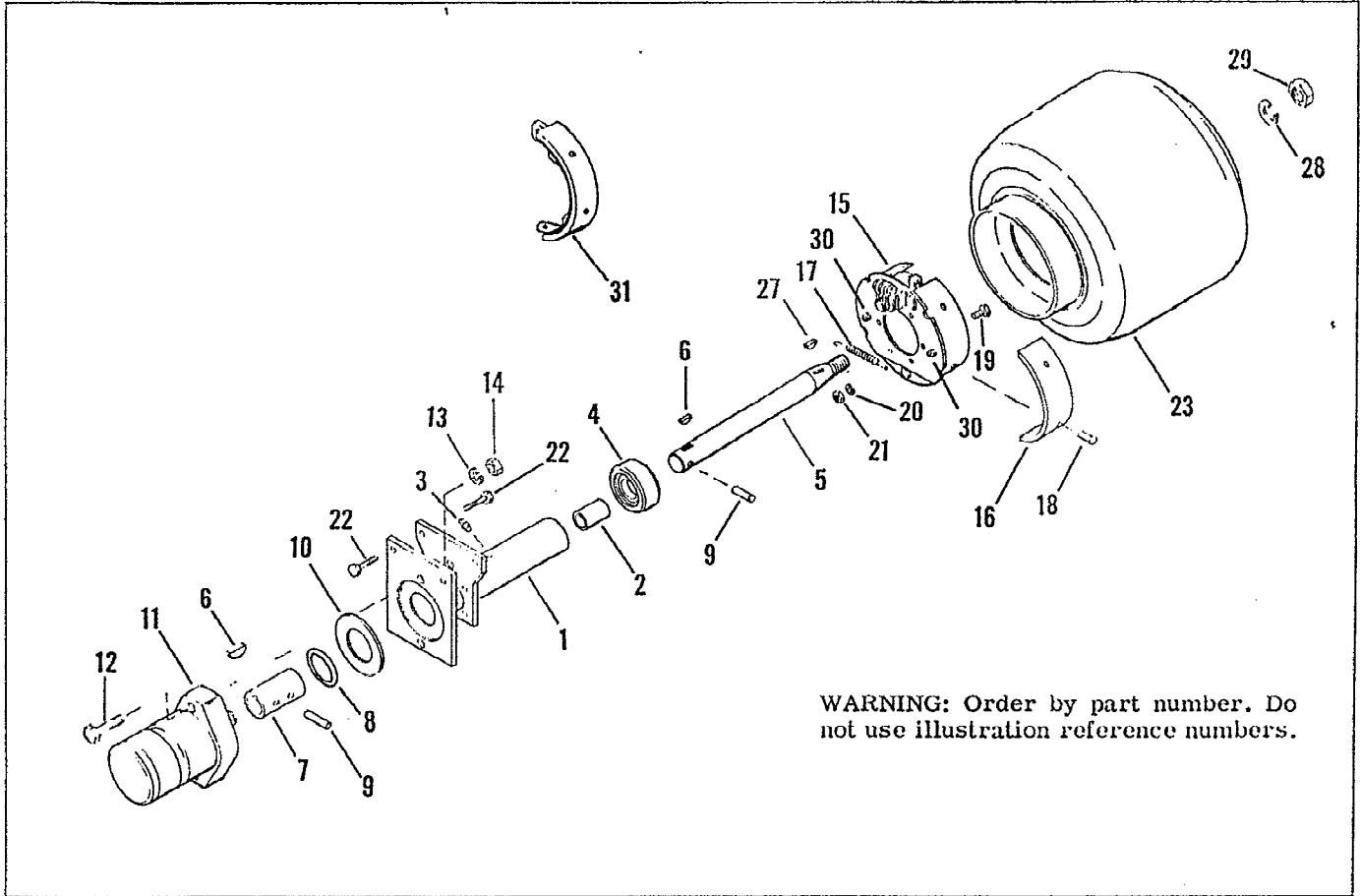
Ref. No.	Part No.	Quan.	Description
1	129929	1	Steering Wheel Fork Assembly
2	459015	1	"O" Ring, 1 ID x 1-1/4 OD x 1/8 Dia
3	345394	1	Collar, Steering Fork
4	345621	1	Seal, Steering Shaft
5	345386	1	Bearing, Lower Steering Thrust
6	345401	1	Cup, Thrust Bearing
7	463019	1	Key, 3/16 x 7/8 Woodruff
8	154914	1	Steering Wheel and Tire Assem
9	351651	3	Decal, Tire Pressure

Ref. No.	Part No.	Quan.	Description
10	500533	2	Cup and Cone Set, Roller Brg (Incl. Ref 12)
11	345351	1	Axle, Steering
12	311957	2	Ring, Nilos
13	458437	1	Ring, External Snap, Steering Axle Mounting
14	444742	1	Nut, 3/4-16 Hex Jam Center-Loc
15	453017	2	Washer, 1/2 SAE Flat
16	444784	2	Nut, 1/2-13 Hex Jam Center-Loc



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DRIVE WHEEL & BRAKE ASSEMBLY



WARNING: Order by part number. Do not use illustration reference numbers.

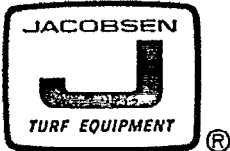
PARTS LIST

Ref. No.	Part No.	Quan.	Description
1	154921	1	Axle Housing and Bushing Assembly, LH
	155170	1	Axle Housing and Bushing Assembly, RH
2	345427	2	Bushing, Traction Shaft
3	472310	2	Plug, 1/4-18 NPTF Hex C'TSK Pipe
4	332104	2	Seal, Traction Shaft
5	335643	2	Shaft, Traction
6	463031	4	Key, 1/4 x 1 Woodruff
7	345431	2	Coupling, Motor
8	459007	2	"O" Ring, 1"ODx 3/4 IDx 1/8 Dia
9	345513	4	Pin, Coupling Mounting
10	345432	2	Gasket, Motor Mounting
11	154895	2	Motor, Orbit
12	400408	4	Screw, 1/2-13 x 1-1/2 Hex Hd Cap
13	446154	4	Lockwasher, 1/2 Heavy

Ref. No.	Part No.	Quan.	Description
14	443118	4	Nut, 1/2-13 Hex
15	154915	2	Brake Assembly complete (Incl Ref 16, 17, 18, 30, 31)
16		AR	Brake Band
17	545035	AR	Spring, Shoe Retaining
18	545037	AR	Rivet, Band Mounting
19	400184	8	Screw, 5/16-18 x 3/4 Hex Hd Cap
20	446136	8	Lockwasher, 5/16 Heavy
21	443106	8	Nut, 5/16-18 Hex
22	315298	8	Bolt, Axle Hsg Mount
23	121638*	2	Traction Wheel Drum and Tire Assembly
27	463031	2	Key, Traction Wheel Mounting
28	446178	2	Lockwasher, 3/4 Heavy
29	443128	2	Nut, 5/8-18 Hex
30	545864	2	Spring, Shoe to Backing Plate
31	500803	AR	Brake Shoe w/Lining

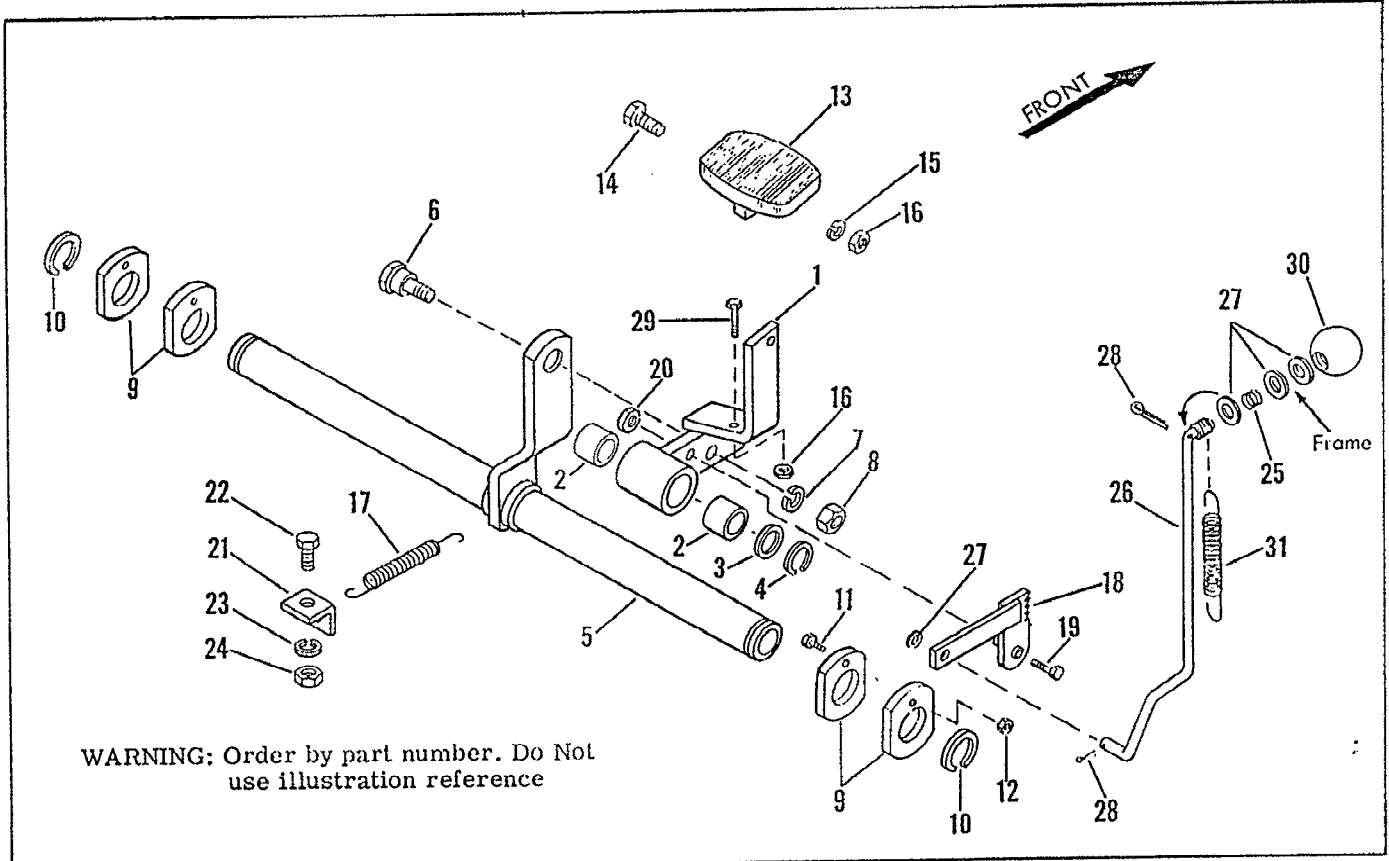
AR - As Required

* For service of Tire only, order 545659
For service of Wheel and Drum only, order 500954



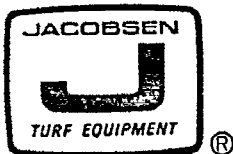
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BRAKE LINKAGE ASSEMBLY



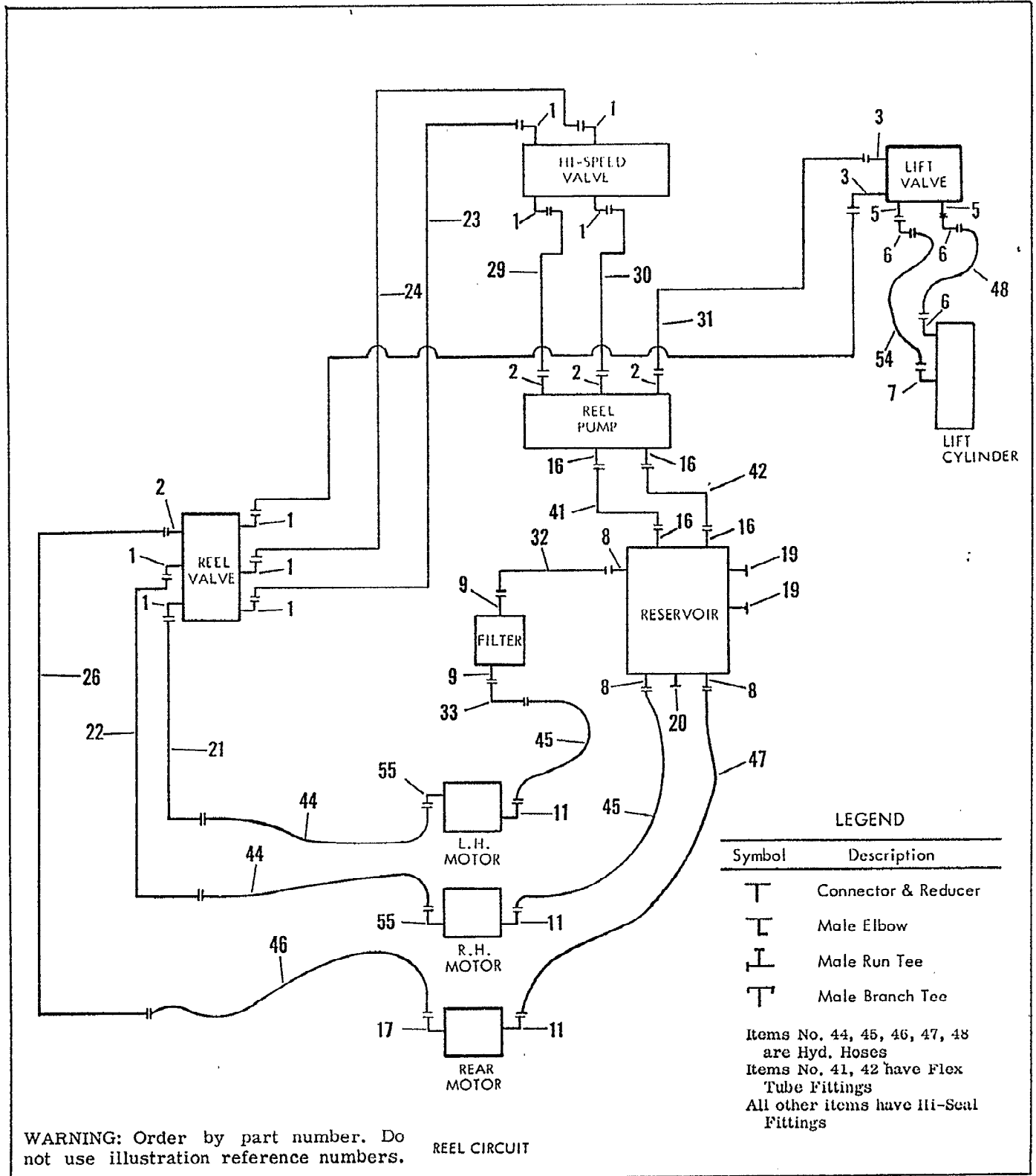
Ref. No.	Part No.	Quan.	Description
1	154981	1	Brake Lever Assembly
2	309364	2	Bushing, Brake Lever Assem
3	309371	1	Washer, Brake Lever Assembly Mounting
4	458449	1	Ring, External Snap, 7/8. Shaft, Eaton No. 4971
5	126616	1	Brake Actuating Assembly
6	345591	1	Bolt, Brake Actuating Arm Mounting
7	446142	1	Lockwasher, 3/8 Heavy
8	443110	1	Nut, 3/8-16 Hex
9	345584	4	Link, Brake Actuating
10	458451	2	Ring, External Snap
11	500591	2	Screw, Link to Brake Arm (Incl Ref 12)
12	444782	2	Nut, 10-24 Hex Gripco Center-Loc
13	345589	1	Pedal, Brake
14	400188	1	Screw, 5/16-18x1 Hex Hld Cap

Ref. No.	Part No.	Quan.	Description
15	446136	1	Lockwasher, 5/16 Heavy
16	443106	2	Nut, 5/16-18 Hex
17	345635	1	Spring, Brake Return
18	155004	1	Parking Brake Assembly
19	400190	1	Screw, 5/16-18x1-1/4 Hex Hld Cap
20	444718	1	Nut, 5/16-18 Hex Center-Loc
21	345634	1	Bracket, Brake Return Spring
22	400108	1	Screw, 1/4-20x3/4 Hex Hld Cap
23	446130	1	Lockwasher, 1/4 Heavy
24	443102	1	Nut, 1/4-20 Hex
25	311032	1	Spring, Parking Brake Rod
26	345630	1	Rod, Parking Brake Actuating
27	452006	4	Washer, 5/16 Standard Flat
28	460004	2	Pin, 1/16x3/4 Cotter
29	441616	1	Bolt, 5/16-18x1-1/4 Carr
30	315209	1	Knob, Parking Brake Actuating
31	347137	1	Spring, Parking Brake



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HYDRAULIC SYSTEM DIAGRAM



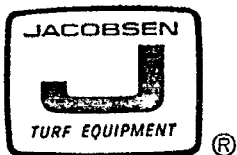
LEGEND

Symbol	Description
	Connector & Reducer
	Male Elbow
	Male Run Tee
	Male Branch Tee

Items No. 44, 45, 46, 47, 48 are Hyd. Hoses
 Items No. 41, 42 have Flex Tube Fittings
 All other items have Hi-Seal Fittings

WARNING: Order by part number. Do not use illustration reference numbers.

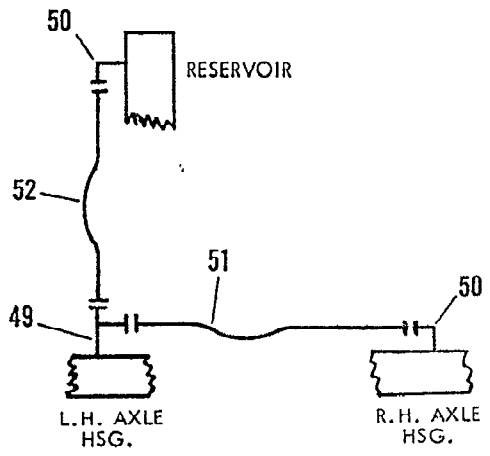
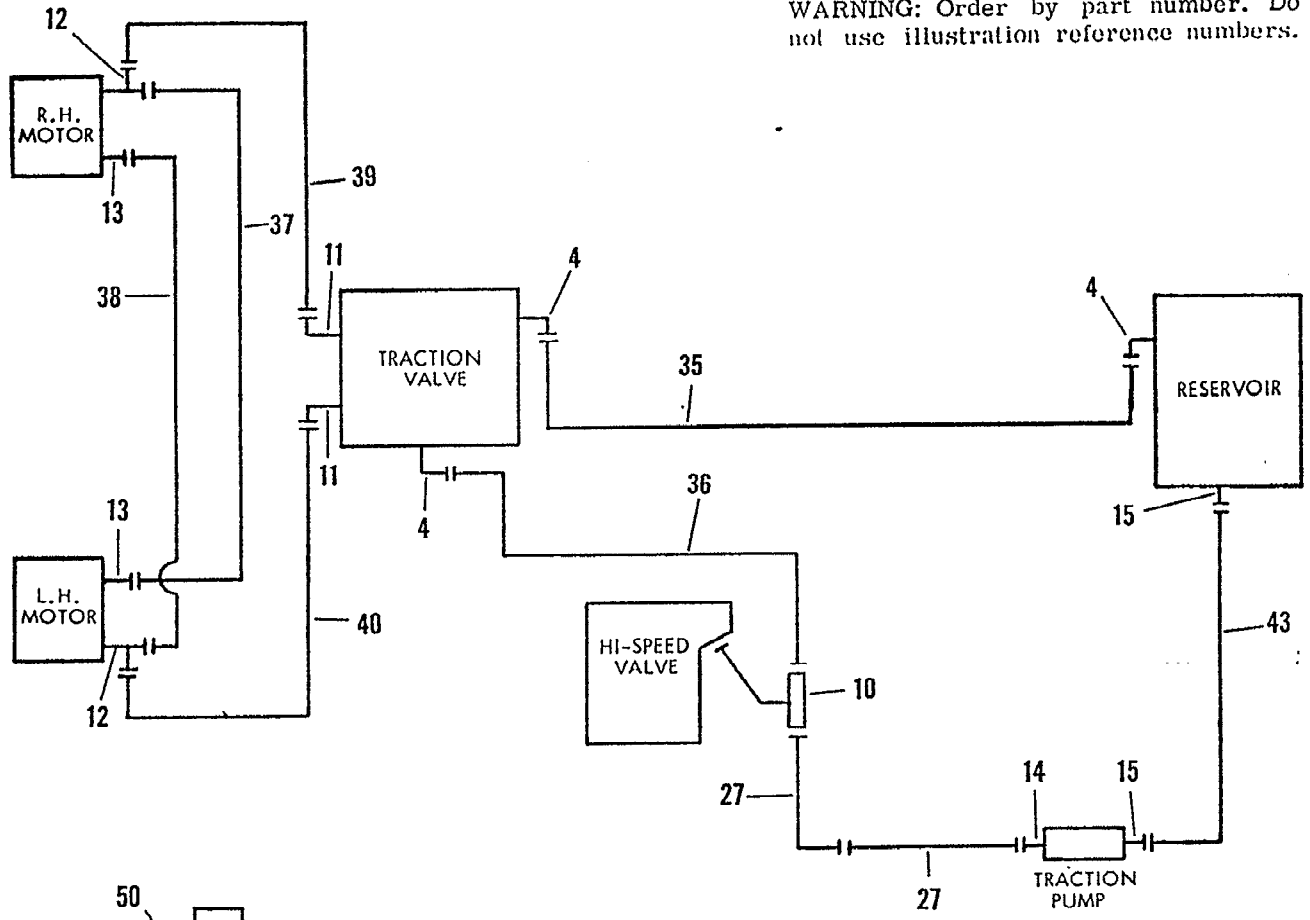
REEL CIRCUIT



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HYDRAULIC SYSTEM DIAGRAM

WARNING: Order by part number. Do not use illustration reference numbers.



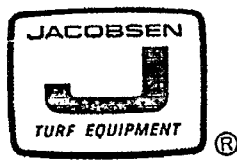
TRACTION CIRCUIT

OIL RETURN CIRCUIT

LEGEND

Symbol	Description
	Connector & Reducer
	Male Elbow
	Male Run Tee
	Male Branch Tee

Item No. 43 has Flex Tube Fittings
 Items No. 51, 52 are Plastic Tubes
 All other items have Hi-Seal Fittings



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HYDRAULIC SYSTEM DIAGRAM



PARTS LIST

Ref. No.	Part No	Qty.	Description
1	155018	8	Elbow Assembly 90°
2	154954	5	Connector Assembly
3	155335	2	Connector Assembly, Reel Lift Valve to Reel Pump Valve Tube
4	154953	3	Elbow Assembly, 90°
5	154960	2	Reducer Assembly, "O" Ring Reel Lift Valve to Hose Assembly
6	154951	3	Elbow Assembly, 90° Reel Lift Valve to Hose Assembly
7	154961	1	Elbow Assembly 90° (Incl. Venturi)
8	154955	3	Connector Assembly
9	345554	2	Connector, Filter to Hyd. Tube
10	129528	1	Tee Assembly, Hi-Speed Valve to Traction Valve and Pump
11	154952	5	Elbow Assembly, 90°
12	154958	2	Tee Assembly, Traction Motor to Hyd. Tube
13	154956	2	Connector Assembly, Traction Motor to Tube
14	154948	1	Connector Assembly, Traction Pump to Hyd. Tube
15	154965	2	Connector Assembly, Traction to Frame Tube Mtg.
16	154964	4	Connector Assembly, Reel Pump to Frame Tubes
17	154959	1	Elbow Assembly, 90° Reel Motor to Hose Assembly
19*	155141	2	Ceramic Magnetic Plug Assembly
20**	154963	1	Oil Drain Plug Assembly, Magnetic
21	155336	1	Hydraulic Tube Assembly, Reel Valve to L.H. Reel Motor
22	155337	1	Hydraulic Tube Assembly, Reel Valve to R.H. Reel Motor
23	155657	1	Hydraulic Tube Assembly, Hi-Speed Valve to Reel Valve, Front
24	155656	1	Hydraulic Tube Assembly, Hi-Speed Valve to Reel Valve, Center
26	116228 (1500730)	1	Hydraulic Tube Assembly, Reel Valve to Rear Reel Motor
27	116232 (1500731)	1	Hydraulic Tube Assembly, Traction Pump to Hi-Speed Valve
29	116231 (1500732)	1	Hydraulic Tube Assembly, Reel Pump to Hi-Speed Valve, L.H.
30	116230 (1500733)	1	Hydraulic Tube Assembly, Reel Pump to Hi-Speed Valve, Center
31	116229 (1500734)	1	Hydraulic Tube Assembly, Reel Pump to Reel Lift Valve
32	154966	1	Hydraulic Tube Assembly, Return Filter to Tank
33	155338	1	Hydraulic Tube Assembly, Filter to Return Hose
34	129617	1	Hydraulic Tube Assembly, Reel Lift Valve to Reel Valve
35	154940	1	Hydraulic Tube Assembly, Traction Valve to Tank
36	120453	1	Hydraulic Tube Assembly, Hi-Speed Valve to Traction Valve
37	155019	1	Hydraulic Tube Assembly, Traction Motor to Traction Motor, Lower
38	154938	1	Hydraulic Tube Assembly, Traction Motor to Traction Motor, Upper
39	155345 (1500735)	1	Hydraulic Tube Assembly, Traction Valve to L.H. Traction Motor, "Top Port"
40	155658 (1500735)	1	Hydraulic Tube Assembly, Traction Valve to R.H. Traction Motor, "Lower Port"
41	345548	1	Tube, Reel Pump to Frame, Front
42	345549	1	Tube, Reel Pump to Frame, Rear
43	345547	1	Tube, Traction Pump to Frame
44	154944	2	Hydraulic Hose Assembly, Reel Valve to Front Reel Motor
45	154945	2	Hydraulic Hose Assembly, Return, Front Reel Motor to Tank
46	155021	1	Hydraulic Hose Assembly, Reel Valve to Rear Reel Motor
47	154946	1	Hydraulic Hose Assembly, Return, Rear Reel Motor to Tank
48	154928	1	Hydraulic Hose Assem., Reel Lift Valve to Hydraulic Cyl (Lower Port)
49	155172	1	Tee Assembly, L. H. Axle Hsg. to Tube
50	155173	2	Elbow Assembly, R.H. Axle Hsg. to Tube and Tank to Tube
51	500631	1	Tube, Oil Return, L.H. Axle Hsg. to R.H. Axle Hsg.
52	500632	1	Tube, Oil Return, L.H. Axle Hsg. to Tank
53	473142	1	Retainer, Oil Return Tube (Not illustrated)
54	155762	1	Hydraulic Hose Assem., Reel Lift Valve to Hydraulic Cylinder (Top Port)
55	158793	2	Elbow Assem., Front Reel Motor to Hose Assembly

*- Located on top side of main frame at rear

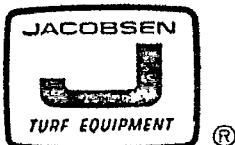
**- Located on under side of main frame at front-Below front edge of reservoir

NOTE- For service of Hydraulic Fitting "O" Rings Order No. 500584

(One package provides "O" Rings for all fittings)

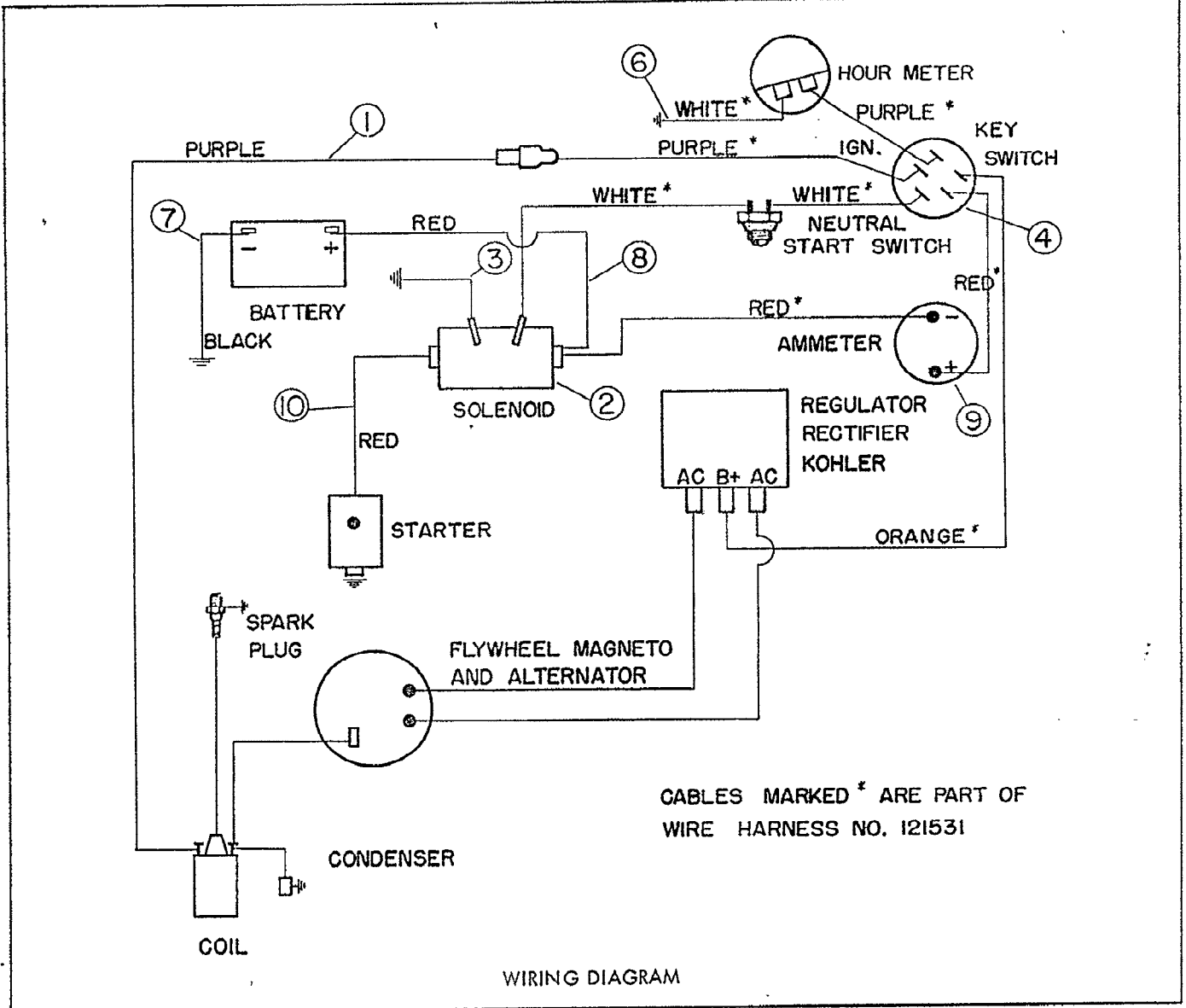
† Optional, Hydraulic Hose may be used in place of Tube

WARNING: Order by part number. Do not use illustration reference numbers.



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WIRING DIAGRAM



PARTS LIST

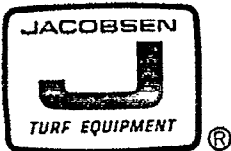
Ref. No.	Part No.	Quan.	Description
1	352245	1	Wire
2	126070	1	Solenoid
3	112206	1	Cable
4	129846	1	Key Switch
5	121531	1	Wiring Harness
6	158941	1	Wire
7	345569	1	Cable, Battery to Ground
8	345568	1	Cable, Solenoid to Battery
9	126534	1	Ammeter
10	345570	1	Cable, Starter to Solenoid

Part No.	Quan.	Description
400110	1	Screw, 1/4-20x7/8 Hex Hd Cap-Regulator Mtg
400104	2	Screw, 1/4-20x1/2 Hex Hd Cap-Solenoid Mtg
446130	5	Lockwasher, 1/4 Hvy) Regulator & Solenoid Mtg
443102	5	Nut, 1/4-20 Hex
446136	2	Lockwasher, 5/16 Hvy-Cables to Solenoid
443808	2	Nut, 5/16-24 Hex Jam-Cables to Solenoid
446118	2	Lockwasher, #10 Hvy-Wire to Solenoid
444312	2	Nut, #10 Hex-Wire to Solenoid
347121	1	Sleeve, Alternator Cable
347122	1	Sleeve, Battery - IG
473142	3	Retainer, Cable #SST - Harness to Frame
400114	1	Screw 1/4-20 x 1-1/4 Hex Hd Cap

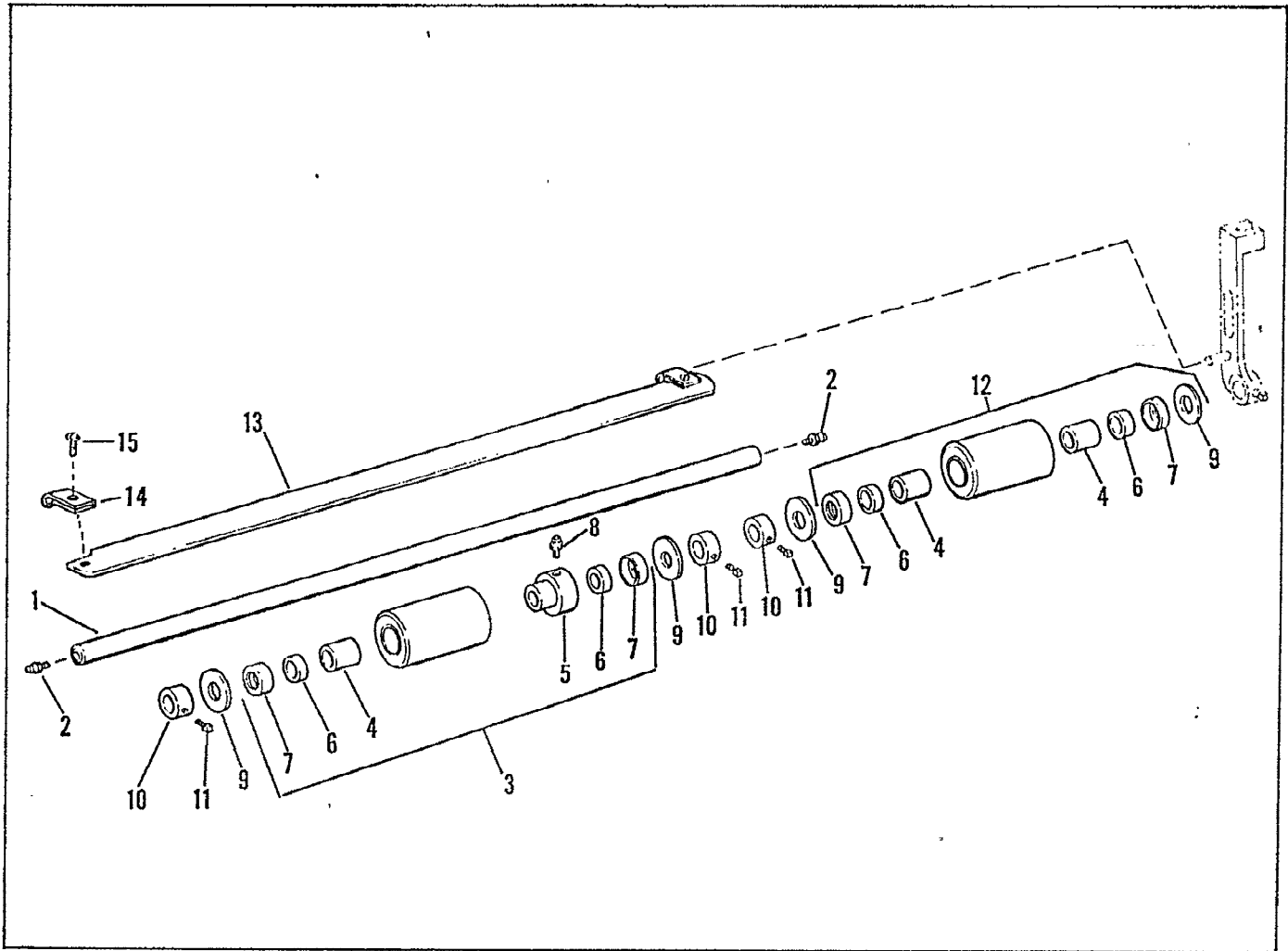
Above items not illustrated

WARNING: Order by part number. Do not use illustration reference numbers.

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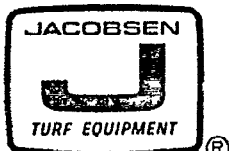
NO. 68535 SECTIONAL FRONT ROLLER
ACCESSORY



PARTS LIST

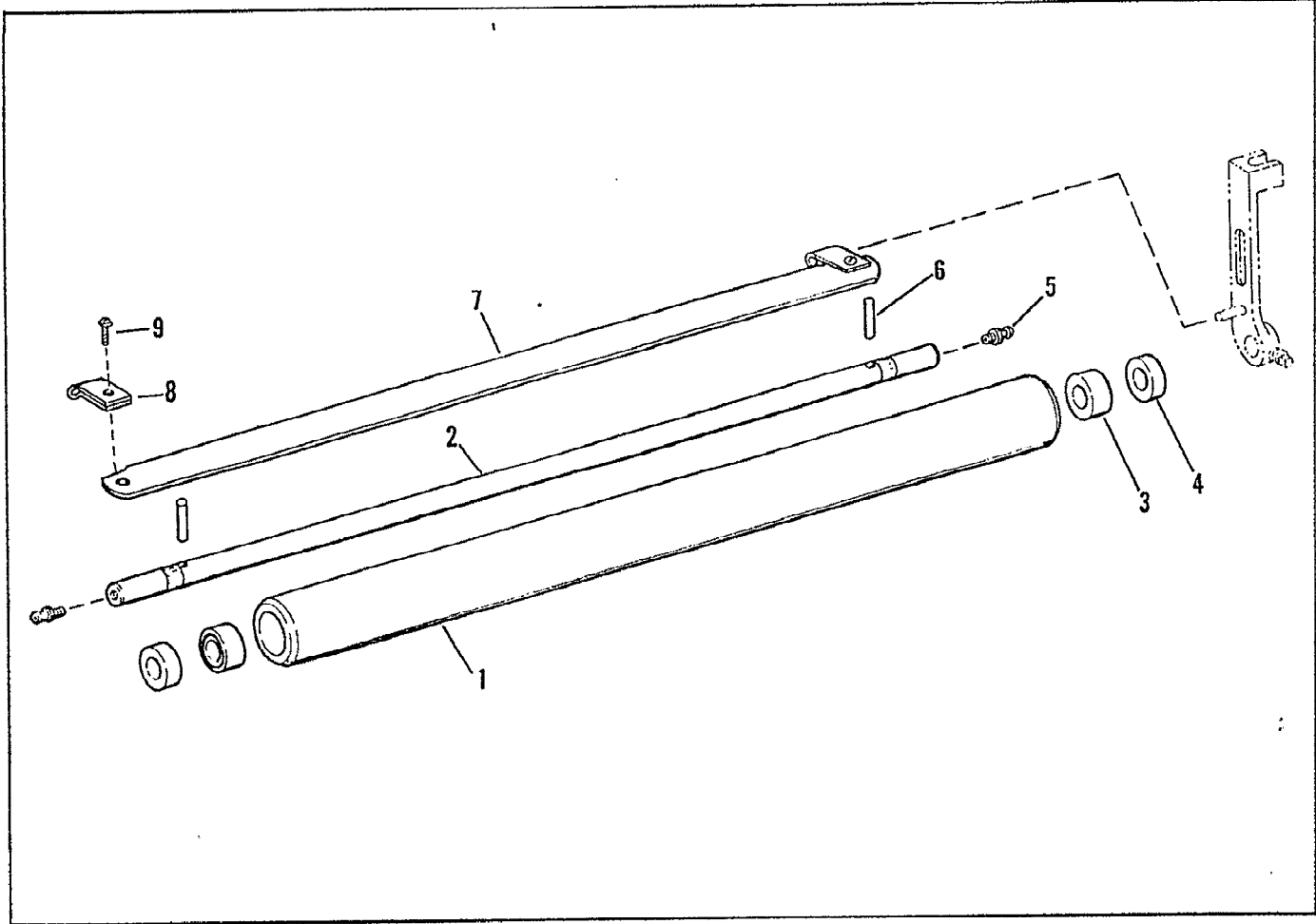
Ref. No.	Part No.	Quan.	Description
1	103480	1	Shaft - Front Roller w/Ref. 2
2	471214	2	Fitting - 1/4 Grease - Front Roller Shaft
3	103401	1	Front Roller - Center Section Assembly (Incl. 1 of Ref. 4, 5, 8 and 2 of Ref. 6, 7)
4	305028	5	Bushing - Front Roller - Short
5	307379	1	Bushing - Front Roller - Long
6	305026	6	Oil Seal - Front Roller

Ref. No.	Part No.	Quan.	Description
7	305027	6	Retainer - Front Roller Oil Seal
8	471211	1	Fitting - 1/4 Grease Center Front Roller
9	302295	6	Washer - Front Roller Shaft Thrust
10	311446	4	Collar - Front Roller
11	412005	4	Screw - 1/4-20 x 1/2 Sq. Hd. Set Front Roller Collar Mtg.
12	101980	2	Front Roller - End Section Assembly (Incl. 2 of Ref. 4, 6, 7)
13	313795	1	Scraper Blade
14	303159	2	Clip, Scraper Blade
15	407586	2	Screw, 1/4-20 x 5/16 Rd Hd Sems



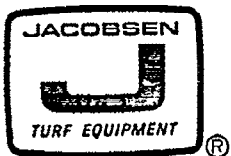
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NO. 68530 SOLID FRONT ROLLER ACCESSORY



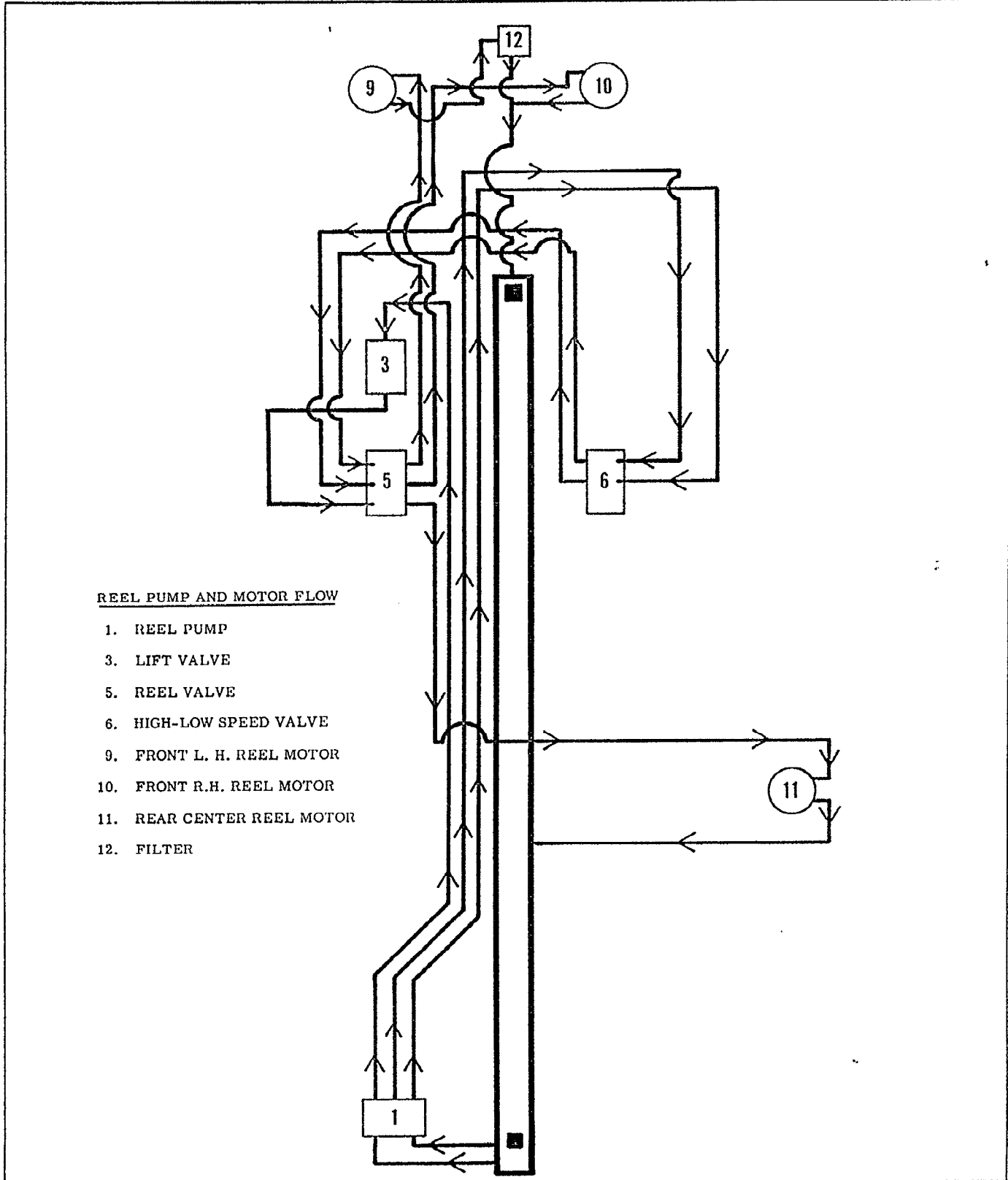
PARTS LIST

Ref. No.	Part No.	Quan.	Description
1	129594	1	Front Roller Tube Assembly
2	102030	1	Front Roller Shaft Assembly (Incl. Ref. 6)
3	303558	2	Bearing - Front Roller
4	305115	2	Seal - Front Roller Bearing
5	471214	2	Fitting 1/4 Grease - Front Roller
6	461359	2	Pin - 1/8 x 3/4 Roll Front Roller Shaft
7	313795	1	Scraper Blade Assembly
8	303159	2	Clip, Scraper Blade
9	407586	2	Screw, 1/4-20 x 5/16 Rd Hd Sems



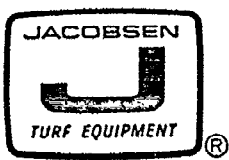
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HYDRAULIC SYSTEM SCHEMATIC



REEL PUMP AND MOTOR FLOW

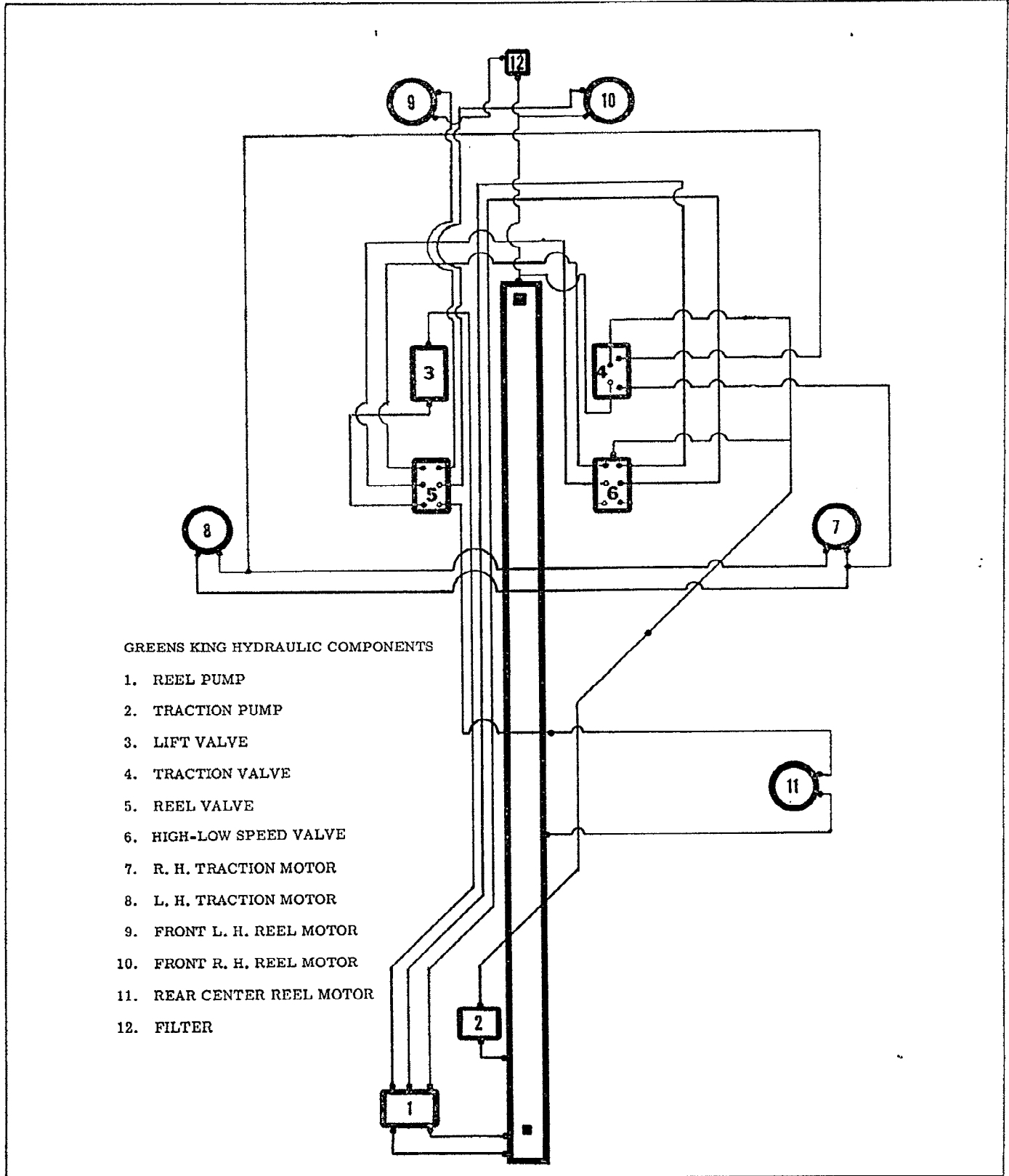
- 1. REEL PUMP
- 3. LIFT VALVE
- 5. REEL VALVE
- 6. HIGH-LOW SPEED VALVE
- 9. FRONT L. H. REEL MOTOR
- 10. FRONT R.H. REEL MOTOR
- 11. REAR CENTER REEL MOTOR
- 12. FILTER



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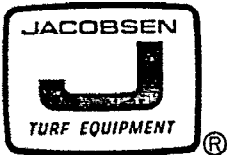
HYDRAULIC SYSTEM SCHEMATIC

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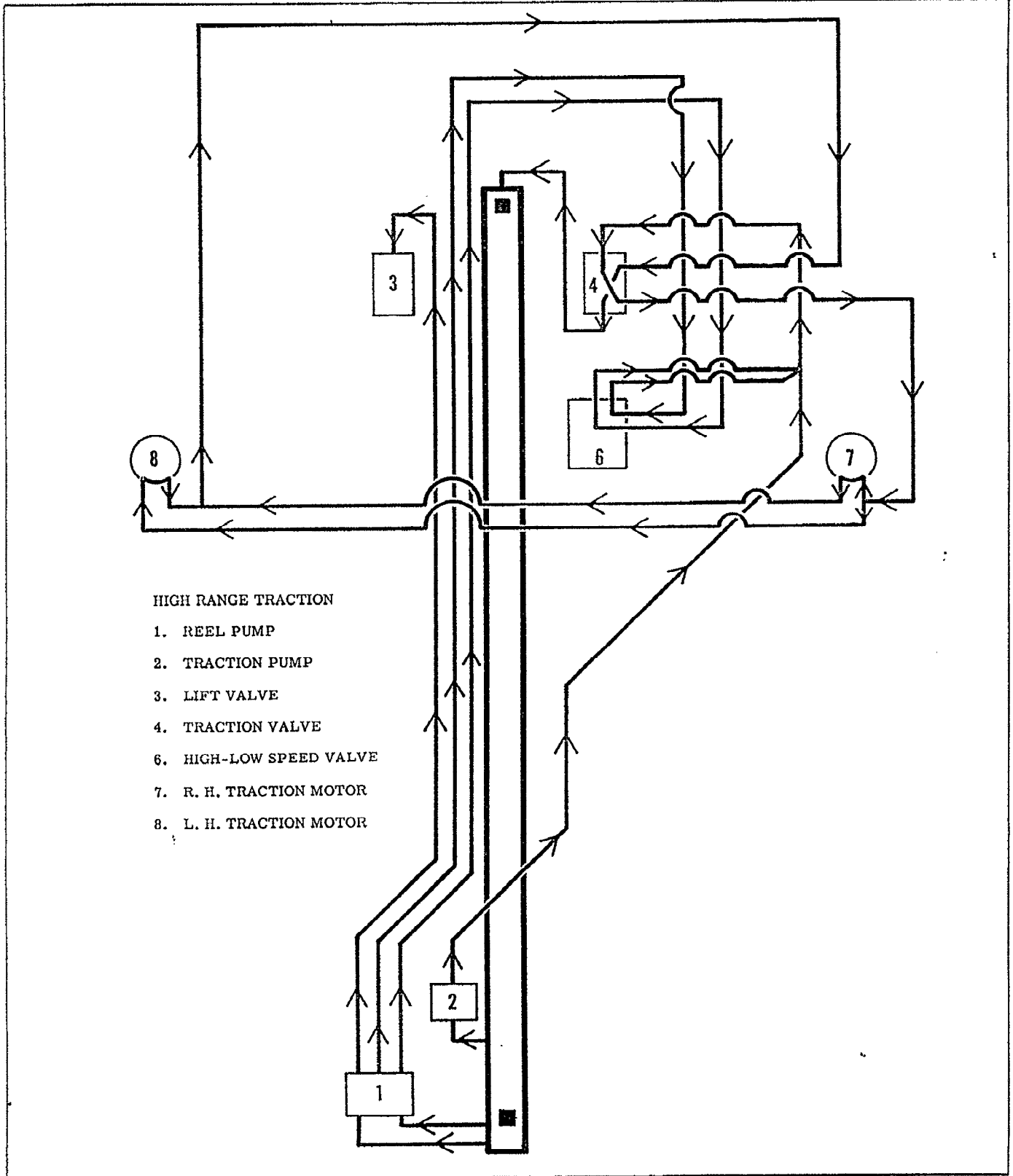
GREENS KING HYDRAULIC COMPONENTS

- 1. REEL PUMP
- 2. TRACTION PUMP
- 3. LIFT VALVE
- 4. TRACTION VALVE
- 5. REEL VALVE
- 6. HIGH-LOW SPEED VALVE
- 7. R. H. TRACTION MOTOR
- 8. L. H. TRACTION MOTOR
- 9. FRONT L. H. REEL MOTOR
- 10. FRONT R. H. REEL MOTOR
- 11. REAR CENTER REEL MOTOR
- 12. FILTER



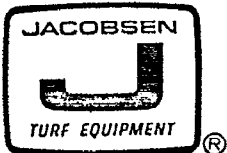
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HYDRAULIC SYSTEM SCHEMATIC



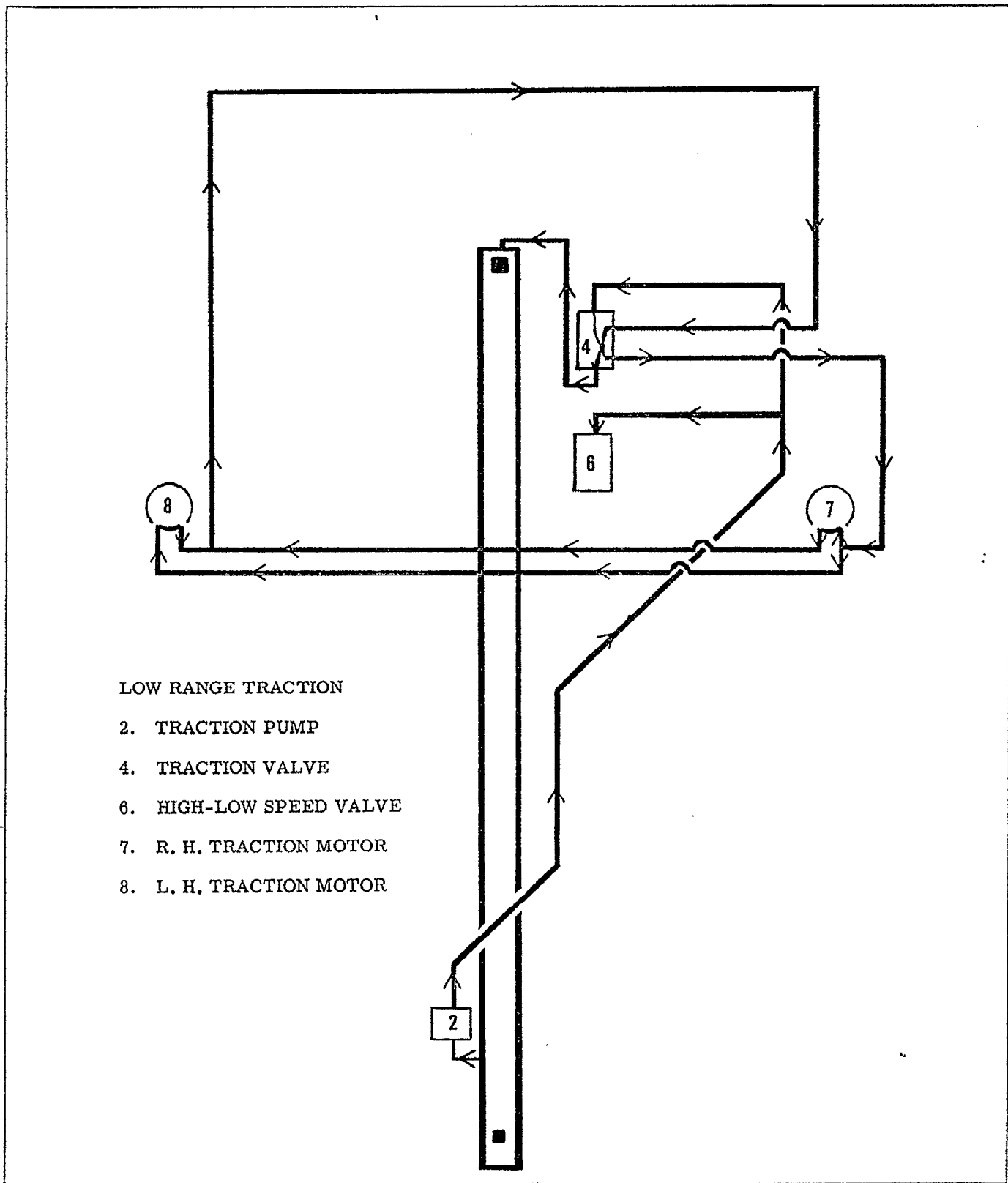
HIGH RANGE TRACTION

- 1. REEL PUMP
- 2. TRACTION PUMP
- 3. LIFT VALVE
- 4. TRACTION VALVE
- 6. HIGH-LOW SPEED VALVE
- 7. R. H. TRACTION MOTOR
- 8. L. H. TRACTION MOTOR



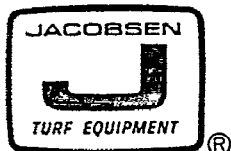
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HYDRAULIC SYSTEM SCHEMATIC

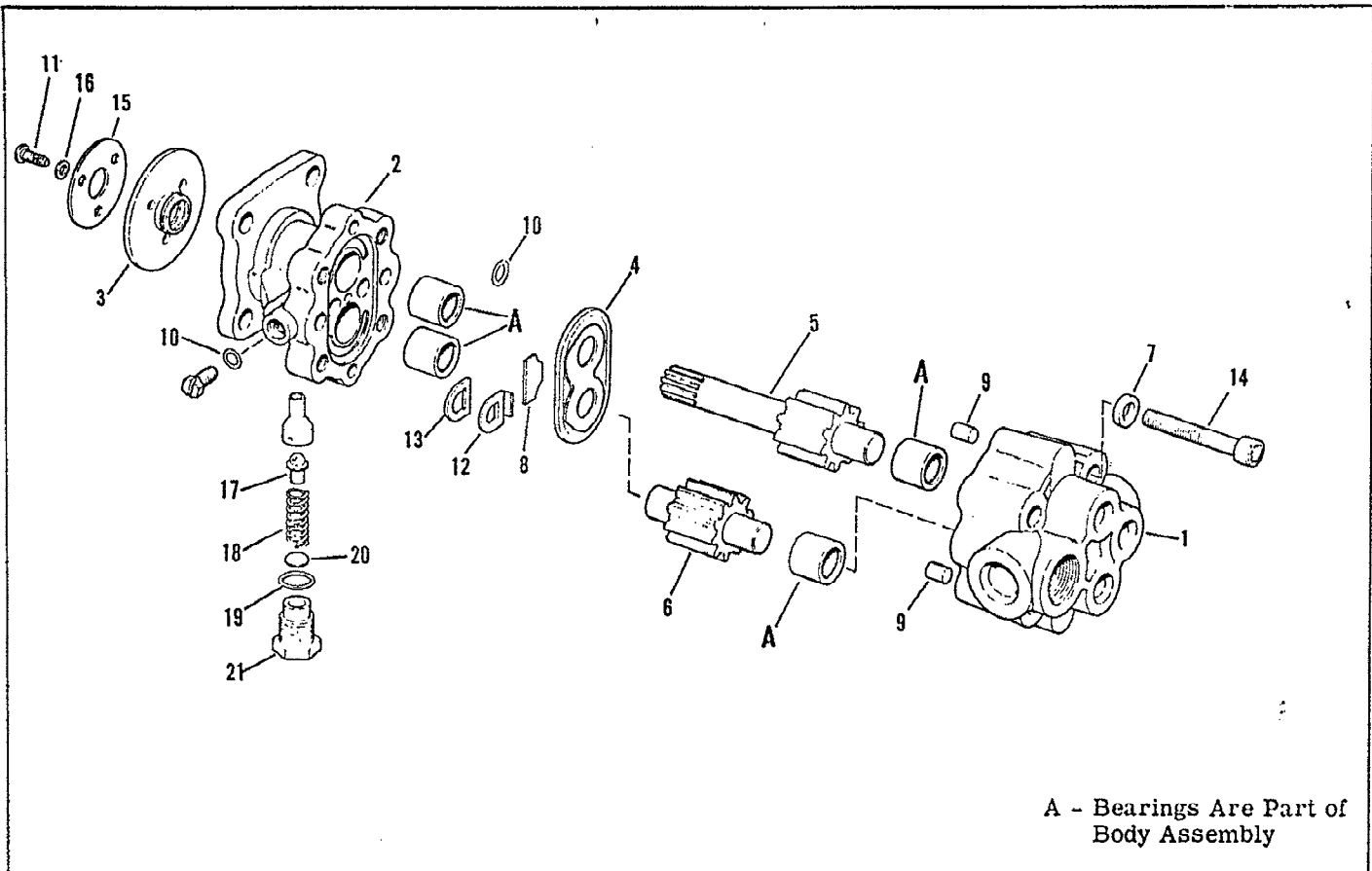


LOW RANGE TRACTION

- 2. TRACTION PUMP
- 4. TRACTION VALVE
- 6. HIGH-LOW SPEED VALVE
- 7. R. H. TRACTION MOTOR
- 8. L. H. TRACTION MOTOR

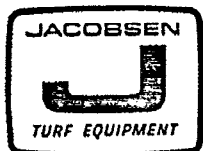


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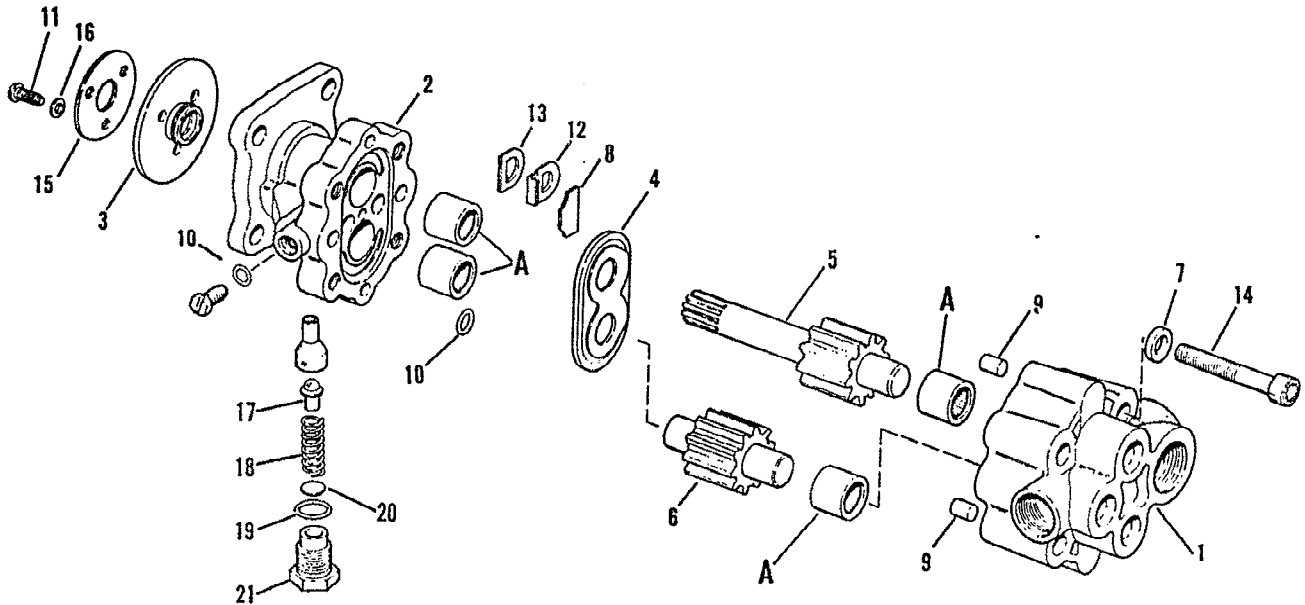
PARTS LIST

Ref. No.	JMC Part No.	Quan.	Description
1	500840	1	Cover Assembly
2	500841	1	Body Assembly
3	500842	1	Seal Plate Assembly
4	500843	1	Wearplate & Seal Assembly
5	500844	1	Drive Shaft Assembly (Incl. Gear)
6	500845	1	Idler Gear Assembly (Incl. Shaft)
7	590144	4	Washer
8	546039	1	Block, Anti-Extrusion
9	590145	2	Pin, Dowel
10	590146	1	"O" Ring
11	590148	3	Screw, #8-32 x 1/2 Rec. Bnd. Hld. Thd. Cutting
12	546040	1	Insert, Bridging
13	546041	1	Insert, Gasket
14	590149	4	Screw, 5/16-18 x 2 C'Bore Cap (Requires 12 Pt Socket)
15	546042	1	Washer, Seal Retainer
16	590151	3	Washer
17	546043	1	Valve
18	546044	1	Spring
19	590152	1	"O" Ring
20	546088	AR	Shim (.101 Thk)
21	546089	1	Plug



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REAR REEL MOTOR-L.H. NO. 119237



A - Bearings Are Part of Body Assembly

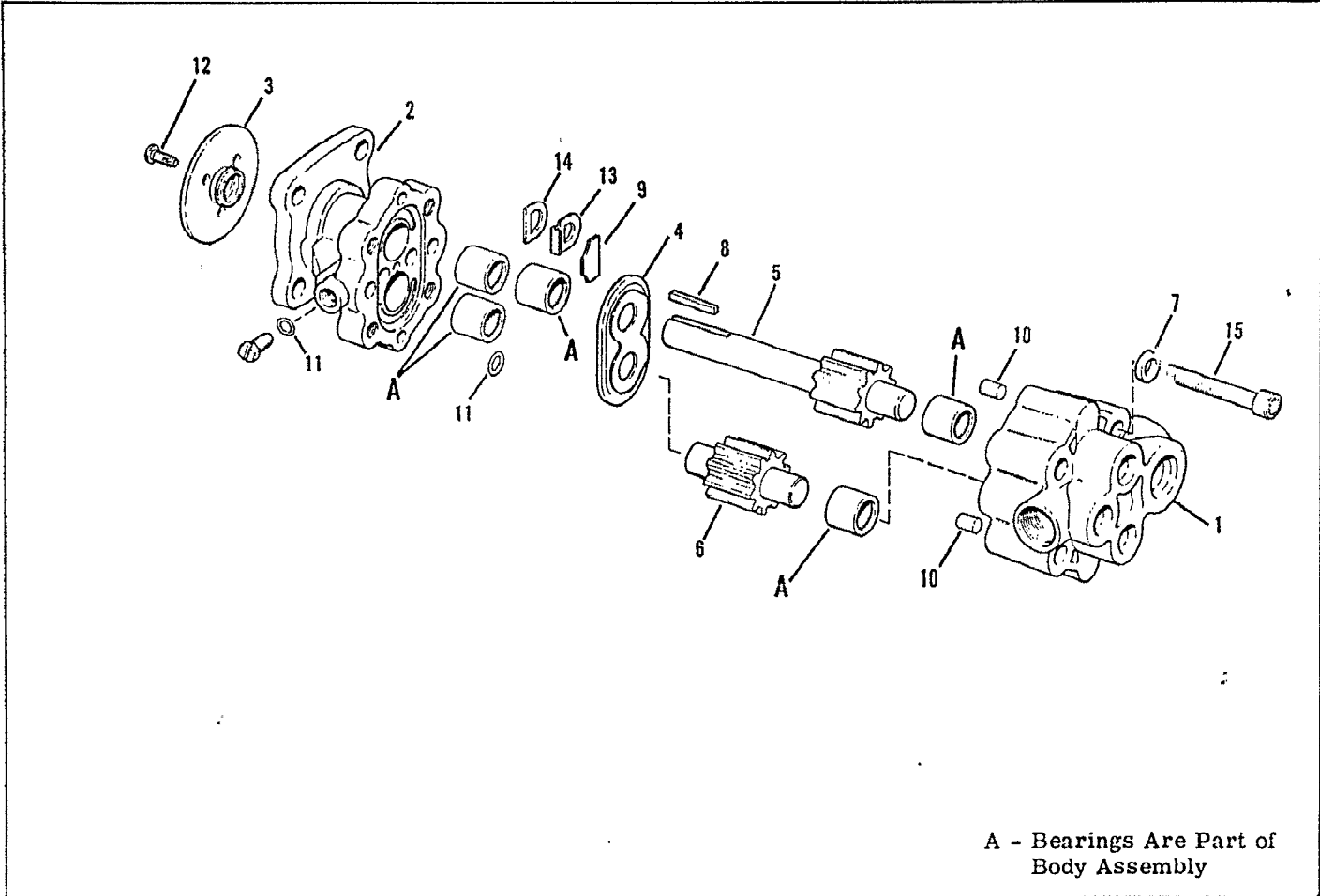
PARTS LIST

Ref. No.	JMC Part No.	Quan.	Description
1	500840	1	Cover Assembly
2	500846	1	Body Assembly
3	500842	1	Seal Plate Assembly
4	500843	1	Wearplate & Seal Assembly
5	500844	1	Drive Shaft, Assembly (Incl. Gear)
6	500845	1	Idler Gear Assembly (Incl. Shaft)
7	590144	4	Washer
8	546039	1	Block, Anti-Extrusion
9	590145	2	Pin, Dowel
10	590146	1	"O" Ring
11	590148	3	Screw, #8-32 x 1/2 Rec. Bnd. Hd. Thd. Cutting
12	546040	1	Insert, Bridging
13	546041	1	Insert, Gasket
14	590149	4	Screw, 5/16-18 x 2 C'Bore Cap (Requires 12 Pt. Socket)
15	546042	1	Washer, Seal Retainer
16	590151	3	Washer
17	546043	1	Valve
18	546044	1	Spring
19	590152	1	"O" Ring
20	546088	AR	Shim
21	546089	1	Plug



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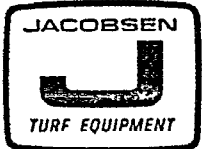
TRACTION PUMP NO. 68526



A - Bearings Are Part of Body Assembly

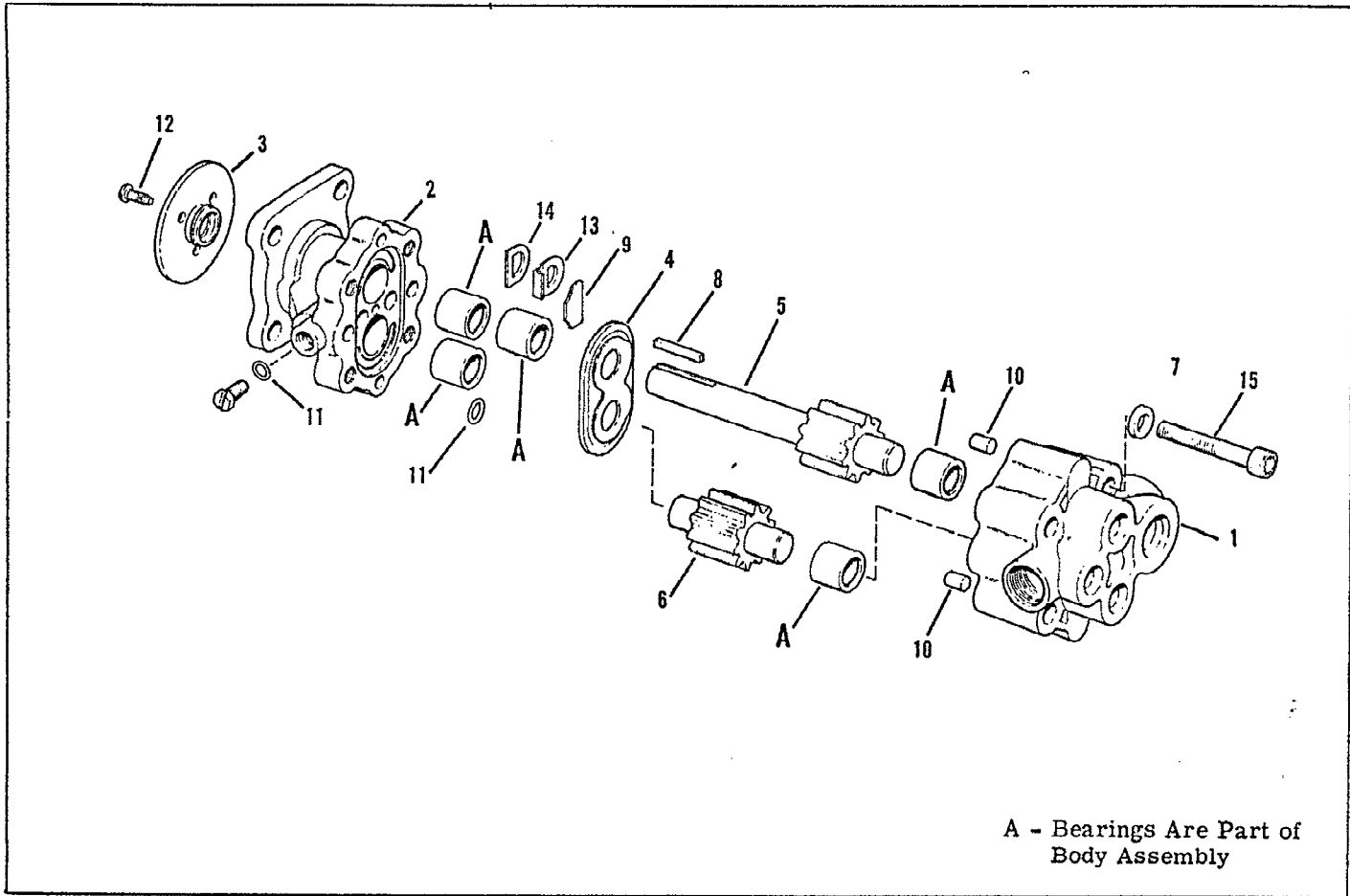
PARTS LIST

Ref. No.	JMC Part No.	Quan.	Description
1	500867	1	Cover Assembly
2	500868	1	Body Assembly
3	500842	1	Seal Plate Assembly
4	500843	1	Wearplate & Seal Assembly
5	500869	1	Drive Shaft Assembly (Incl. Gear)
6	500845	1	Idler Gear Assembly (Incl. Shaft)
7	590144	4	Washer
8	546090	1	Key, 1/8 Sq. x 1
9	546039	1	Block, Anti-Extrusion
10	590145	2	Pin, Dowel
11	590146	1	"O" Ring
12	590147	3	Screw, #8-32 x 3/8 Rec. Bnd. Hd. Thd. Cutting
13	546040	1	Insert, Bridging
14	546041	1	Insert, Gasket
15	590149	4	Screw, 5/16-18 x 2 C'Bore Cap (Requires 12 Pt. Socket)



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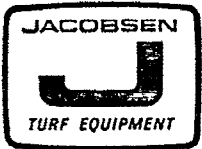
TRACTION PUMP NO. 119235



A - Bearings Are Part of Body Assembly

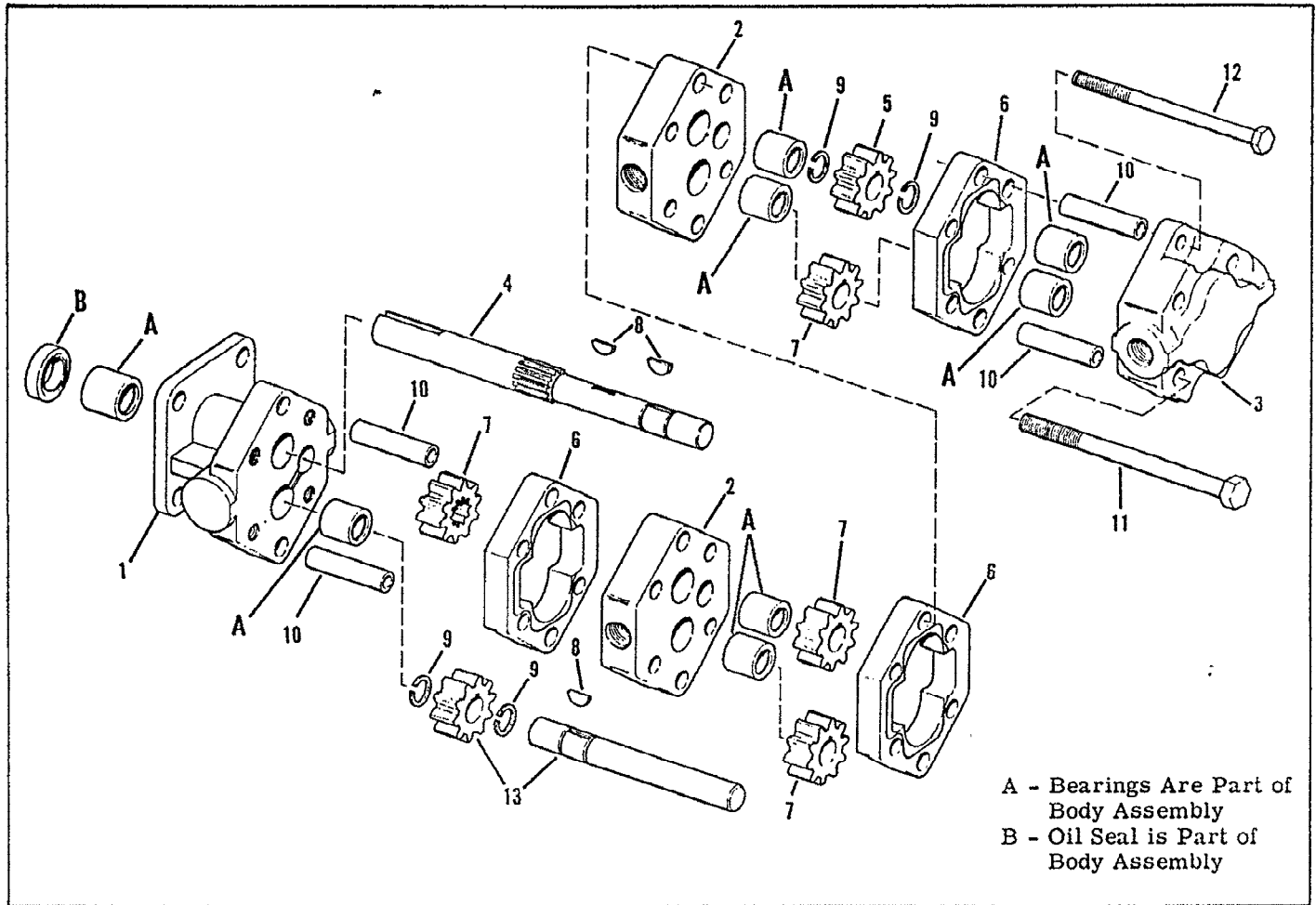
PARTS LIST

Ref. No.	JMC Part No.	Quan.	Description
1	500875	1	Cover Assembly
2	500868	1	Body Assembly
3	500842	1	Seal Plate Assembly
4	500843	1	Wearplate & Seal Assembly
5	500870	1	Drive Shaft Assembly (Inc. Gear)
6	500876	1	Idler Gear Assembly (Incl. Shaft)
7	590144	4	Washer
8	546090	1	Key, 1/8 Sq x 1
9	546039	1	Block, Anti-Extrusion
10	590145	2	Pin, Dowel
11	590146	1	"O" Ring
12	590147	3	Screw, #8-32 x 3/8 Rec. Bnd. Hld. Thd. Cutting
13	546040	1	Insert, Bridging
14	546041	1	Insert, Gasket
15	590150	4	Screw, 5/16-18 x 2-1/4 C'Bore Cap (Requires 12Pt. Socket)



JACOBSEN MANUFACTURING COMPANY RACINE, WISCONSIN 53403
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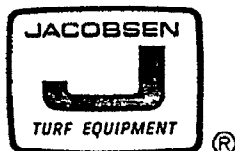
REEL PUMP-3 SECTION NO. 119234



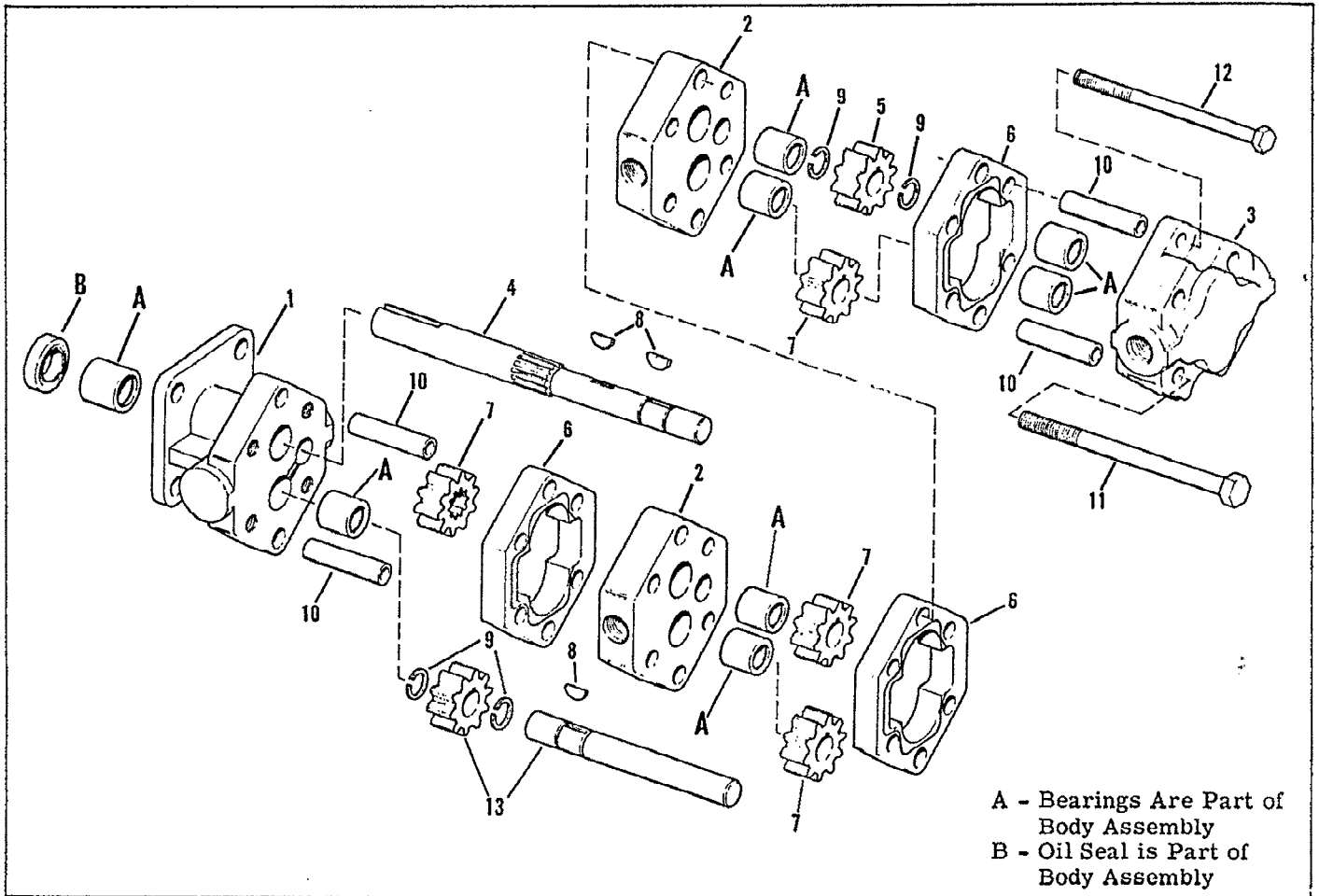
A - Bearings Are Part of Body Assembly
B - Oil Seal is Part of Body Assembly

PARTS LIST

Ref. No.	JMC Part No.	Quan.	Description
1	500871	1	Body Assembly
2	500872	2	Bearing Plate Assembly
3	500873	1	Cover Assembly
4	546097	1	Shaft, Drive
5	546093	1	Gear
6	546098	3	Plato, Gear
7	546096	4	Gear
8	463001	2	Key, 3/32x1/2 Woodruff
9	590153	2	Ring, Retaining (National #XSC122)
10	590154	4	Pin, Dowel
11	400208	4	Screw, 5/16-18x4-1/2 Hex Hd Cap
12	400130	2	Screw, 1/4-20x4 Hex Hd Cap
13	500877	1	Idler Gear Assembly (Incl, Shaft)

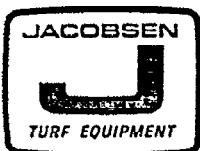


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PARTS LIST

Ref. No.	JMC Part No.	Quan.	Description
1	500871	1	Body Assembly
2	500872	2	Bearing Plate Assembly
3	500873	1	Cover Assembly
4	546091	1	Shaft, Drive
5	546092	1	Gear
6	546094	3	Plate, Gear
7	546095	4	Gear
8	463001	2	Key, 3/32x1/2 Woodruff
9	590153	2	Ring, Retaining (National #XSC122)
10	590154	4	Pin, Dowel
11	400210	4	Screw, 5/16-18x5 Hex Hd Cap
12	400134	2	Screw, 1/4-20x4-1/2 Hex Hd Cap
13	500874	1	Idler Gear Assembly (Incl. Shaft)





IMPORTANT

DO NOT MISPLACE THIS OWNER'S MANUAL AND PARTS LIST AS IT IS YOUR ONLY MEANS FOR ORDERING REPLACEMENT PARTS ACCURATELY

To eliminate error and speed delivery:

1. Write your NAME and ADDRESS on the order plainly.
2. Explain WHERE and HOW to ship.
3. Give PRODUCT NAME, MODEL and SERIAL NUMBER that is stamped on the NAME PLATE of your product.
4. Order from your PARTS LIST as this is the ONLY means we have of identifying the parts you need. Order by stating the QUANTITY required, the PART NUMBER and full DESCRIPTION OF PART.
5. Send your order to your JACOBSEN Turf Equipment Distributor to avoid unnecessary delays.
6. INSPECT ALL SHIPMENTS ON RECEIPT. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return any parts or equipment to the JACOBSEN Turf Equipment Distributor without a letter of authorization. Make a list of all returned parts, show your name and address, and include it with the shipment. TRANSPORTATION CHARGES MUST BE PREPAID.

PERFORMANCE GUARANTY-COMMERCIAL AND TURF EQUIPMENT

Jacobsen Manufacturing Company (hereinafter Jacobsen) guarantees to the original retail purchaser of new and unused Jacobsen Commercial and Turf products that the same are free from defects in workmanship or materials that may cause performance failure, subject to the conditions hereinafter stated.

This guaranty is limited to a period of 90 days. It is further limited to a period of 45 days if the product is used for rental purposes. Both periods are from the date of purchase. Replacement of any defective part, including labor, free of charge, f.o.b. any Authorized Jacobsen Service Station, shall constitute compliance by Jacobsen with this guaranty.

This guaranty does not apply to engines or other parts that are manufactured and guaranteed by the

manufacturer thereof; nor does it apply with respect of any product or part (1) that has been repaired other than by an Authorized Jacobsen Service Station, or (2) that has had original parts removed or otherwise altered without specific authorization beforehand by Jacobsen or (3) that has had placed upon or attached to it any part or product not sold or approved by Jacobsen or (4) that has been damaged or improperly used, or not used in conformity with the applicable Jacobsen Owner's Manual for that product or (5) that has not been properly adjusted, lubricated or maintained by the user.

This guaranty is in lieu of and excludes all other guaranties and conditions of merchantability and fitness for purpose. Acceptance of a Jacobsen product constitutes an agreement that Jacobsen shall have no liability for any special or consequential damages.



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Litho in U.S.A. 272