

LAWN SWEEPER

L-90

Operator's Manual No. 9-50781

F**J | Case** A Tenneco Company



SAFETY MESSAGES



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death.



CAUTION: DO NOT empty sweeper hopper, drive sweeper close to, or back up to, an open fire. Sweeper hopper contents and sweeper brushes are flammable and may ignite resulting in possible personal injury or property damage.



CAUTION: Put tractor in neutral, stop engine and set parking brake before leaving tractor seat to:

- 1. Hook or unhook sweeper
- 2. Unplug sweeper brushes
- 3. Adjust sweeper height
- 4. Empty sweeper basket or for any other m = a

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CAUTION: Your sweeper may throw debris as far as the tractor operator's position. To reduce the possibility of injury to the operator, the following rules must be observed:

- Wear safety glasses (with side shields) at all times while sweeping
- Regulate ground speed so the path of debris terminates at the front inside edge of the hopper.
- 3. Adjust sweeper height to the transport position whenever crossing roads or driveways. Always cross these areas at very slow speeds.



CAUTION: Before hanging sweeper for storage, make absolutely certain the wall and hooks or hails are of sufficient capacity to support the sweeper which weighs 125 pounds (56.5 kg).

INTRODUCTION

The Model L-90 Sweeper is designed for use with most makes of compact tractors and riding mowers with a drawbar. Read this manual carefully before operating

your sweeper. The terms right, left, front and rear refer to the sweeper when seated on the tractor seat facing the normal direction of forward travel.



Figure 1 L-90 Sweeper

OPERATION

PREPARATION

The area to be swept should be cleared of all large twigs, sticks, and objects which might plug or be thrown by the sweeper. Small twigs may be swept if approached in a direction parallel with the brushes.

CAUTION: Your sweeper may throw debris as far as the tractor operator's position. To reduce the possibility of injury to the operator, the following rules must be observed: 1. Wear safety glasses (with side shields) at all times while sweep-2. Regulate ground speed so the path of debris terminates at the front inside edge of the hopper. 3. Adjust sweeper height to the transport position whenever crossing roads or driveways. Always cross these areas at very slow speeds.

HEIGHT ADJUSTMENTS

The height adjustment selector has seven holes. The top hole is the transport position. The transport position should be used whenever crossing drives or roadways, when transporting long distances or crossing areas that sweeping is not desired.

The second hole from the top is the highest sweeping position; the bottom hole is the closest sweeping position with four intermediate sweeping positions. Make sure the height selector pin is fully engaged in the desired hole before operating.

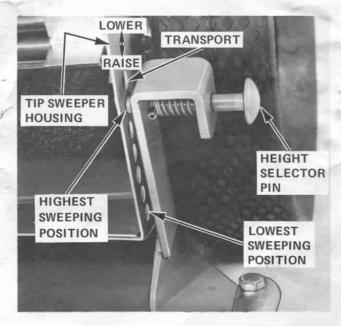


Figure 2 Height Selector Lever

SWEEPING

For best sweeping performance, observe the following auidelines:

- 1. Terrain must be relatively even. Always mow just prior to sweeping. Leaves will actually pick up easier and cleaner if they are first partially mulched by a mower. Leaves that have imbedded in the turf are very difficult to pick up. Mowing lifts imbedded materials and makes them easier to pick up.
- 2. Before sweeping, pick up all tree branches, etc. too large to be picked up by the sweeper as they can lodge in the brush mechanism and cause wheel slippage. The metal skid pan (See Fig. 6) which is under the full width of the sweeper protects it from rocks and protruding objects.

It will also spread a large pile of debris on the first pass so clean up may be accomplished in successive passes without clogging the sweeper.

- 3. Adjust height so the first stage brushes are in "light" contact with the turf. A suggested technique is to first set the height low enough to encounter slight or occasional wheel slippage, then raise the adjusting lever one notch. When sweeping a pile of debris, adjust to maximum height, the skid pan will spread the pile and will allow the brushes to pick up more debris than if set at a lower position.
- 4. Operate sweeper at approximately 4 M.P.H. The best ground speed will vary depending on the amount of debris and type of turf. Different speeds should be tried until one is found which results in maximum efficiency.
- 5. Should wheel slippage occur suddenly while sweeping, check the brushes for a lodged twig and check the shroud point where the first and second stage brushes intersect for a lodged clump of grass or leaves. If a clump of leaves or grass is found in this area, it can be easily removed by manually turning the brushes in the reverse direction.

CAUTION: Put tractor in neutral, stop engine and set parking brake before leaving tractor seat to: 1. Hook or unhook sweeper

- 2. Unplug sweeper brushes
- 3. Adjust sweeper height
- 4. Empty sweeper basket or for any other reason.

EMPTYING HOPPER

The hopper is emptied by pivoting it over the back of the sweeper unit. Polypropylene brushes will melt or burn when exposed to intense heat or open flame. Be sure to keep a safe distance from piles of burning leaves or other sources of intense heat. Do not back-up to piles of burning leaves.

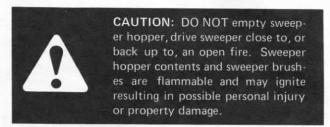




Figure 3 Emptying the Hopper

IMPORTANT:

Avoid making short turns and use care when backing. The rear tractor tires may contact the sweeper tow-bar causing damage, when very short turns are made.



STORAGE

Before storing the sweeper, it should be thoroughly cleaned and any scratches or scuffed surfaces repainted. Store in a dry, weather protected location.

The sweeper may be hung on a garage wall or other suitable area for convenient storage.

Remove the hopper from the sweeper housing assembly and the rod from the hopper and fold the hopper flat. The sweeper should then be hung by its tow bar on suitable large nails or hooks. The flattened hopper should be secured to the sweeper after hanging.



CAUTION: Before hanging sweeper for storage, make absolutely certain the wall and hooks or nails are of sufficient capacity to support the sweeper which weighs 125 pounds (56.5 kg).

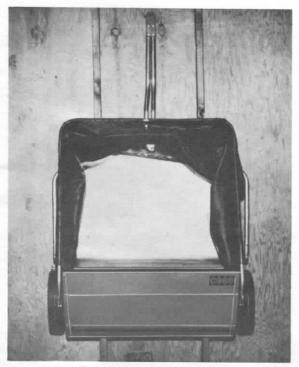


Figure 4 L-90 Sweeper Shown in its Recommended Storage Position

ASSEMBLY

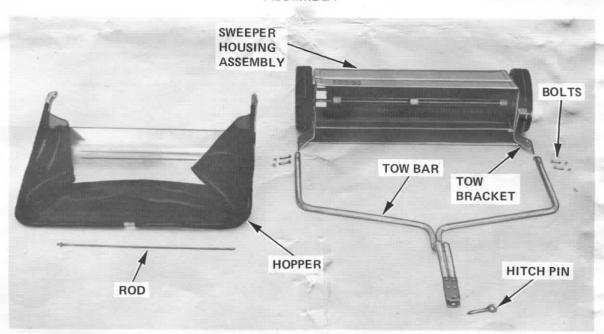


Figure 5 L-90 Sweeper — Disassembled (See Figure 1 for Illustration of Assembled Sweeper)

Your L-90 sweeper has been completely pre-assembled with the exception of the tow-bar and installation of the Hopper.

The tow-bar should be positioned on top of the tow brackets and the bolts installed from the top. The bolts should be secured with the lockwashers and nuts provided. The Hopper should be propped open with the rod (threaded end up) and the nut tightened lightly against the upper hopper tubular frame.

The Hopper should then be inserted in the slotted hopper retainers (Figure 6) in the Sweeper Housing Assembly.

MAINTENANCE

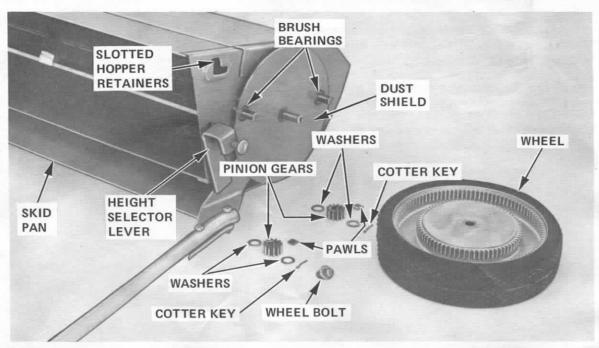


Figure 6 Drive Wheel and Gears Removed (Left Side Only Shown for Clarity)

LUBRICATION

After each 10 hours of use:

- The four sweeper brush bearings should be lubricated with a few drops of light oil.
- The wheels should be removed, the gears, pinions, and axles should be cleaned and regreased with a light coating of multi-purpose or #2 Lithium-soap base grease.
- When replacing wheels, be sure to pilot the dust shield on the axle spacer and to align the brush drive gear teeth with the drive wheel teeth.

IMPORTANT: The wheel must slide freely onto shaft and gears. Forcing the wheel on with the wheel bolt will damage the drive mechanism.

BRUSH REPLACEMENT

Brushes should be replaced according to the following procedure:

- Remove wheel, cotter keys, pinion gears, pawls and washers from both sides of sweeper.
- Grasp brush and slide toward end of sweeper opposite height adjustment lever.

- Tip brush to clear housing and pull from sweeper housing assembly.
- 4. Replace brush by reversing the above procedure. Note that the brush is slightly offset on the shaft. Be sure to position the longer shaft end of the brush in the side opposite the height selector lever.
- The pawls and pinion gears must be installed as illustrated (Figure 8A and 8B) to function properly.
- 6. Refer to Step 3 Lubrication.

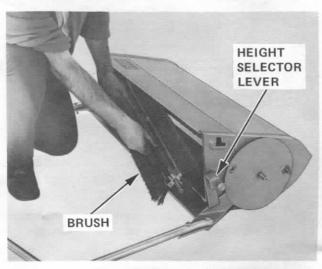


Figure 7 Removing Brush

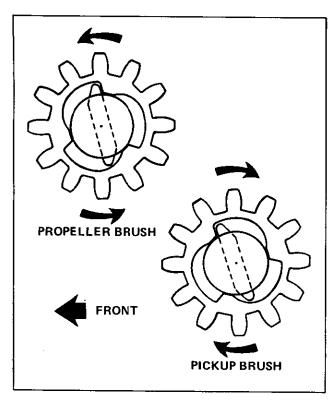


Figure 8A Correct Gear and Pawl Installation Left Side (Height Selector Side)

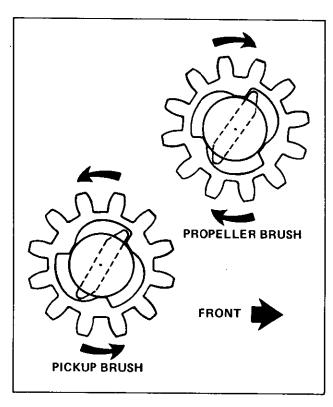


Figure 8B Correct Gear and Pawl Installation Right Side

SPECIFICATIONS

Sweeping Width
Width Overall
Height Overall
Length Overall
Wheel Diameter W/Tire
Tire Width
Hopper Capacity
Weight
Height Adj Single lever - 7 positions

NOTE: The J | Case Company reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.