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INTRODUCTION

Read this manual carefully before operating your Hydraulically Driven Rotary Tiller, hydraulic PTO, and optional flow control valve (if so equipped). Your J I Case Compact Tractor Dealer is well qualified to answer any further questions you might have concerning your equipment. Also, if the need should arise, his service department with factory trained technicians, genuine Case replacement parts and the required facilities is in a position to provide proper repairs in the shortest time possible.

The definitions “Right, Left, Front and Rear” as used throughout this manual relate to the tractor, hydraulic tiller, hydraulic PTO and optional flow control valve (if so equipped) when the operator is seated facing forward in the normal operating position.

DEFINITION

A tiller is simply a mechanism for changing the condition of soil. The familiar moldboard plow performs a tilling function, but where the plow turns the soil in long folds or furrows the rotary tiller turns the soil in chunks or small particles ... and therein lies the secret of the tillers’ versatility. A rotary tiller can be used to perform any of the following functions:

1. Change soil physical conditions, such as in plowing, cultivating and aerating.
2. Control weeds by chopping and churning them into the soil.
3. Prepare seed beds by tilling the soil to a desired texture for optimum germination and plant survival.
4. Mix chemicals or organic matter such as fertilizer, manure, herbicides and insecticides into the soil.
5. Manage crop residue by turning it under to form mulch.
6. Modify soil topography such as in landscaping.
7. Cultivate or level ground around trees, hedges, or in orchards.
8. Blend various soils and soil modifiers for landscaping and greenhouse work.
AERATION

For aeration purposes the tiller should simply disturb the soil surface without completely turning it over, in much the same manner as inserting a spade each few inches and loosening the soil in clumps. The surface of the soil should be left very rough, with occasional holes and deep fractures to several inches. This permits ready penetration of air and moisture with minimum danger of erosion or crusting. Previously tilled garden areas can be aerated by operating the tiller at comparatively rapid travel speeds, wherein the tiller almost “walks” with the tractor. Tines should enter and exit the soil with minimum tearing and churning.

SEEDBED PREPARATION

Tilling for seedbed preparation requires a more thorough working of the soil structure to break it up into small enough particles to provide intimate contact between soil and seed. The ideal structure provides a relatively fine grained soil structure down to seed depth, with progressively coarser grained structure down to the full tilling depth. The interface between tilled and untilled strata should be rough to permit percolation of water; a smooth, interface, like hardpan, tends to serve as a barrier to deep water and root penetration.

LANDSCAPING

Using the rotary tiller for landscaping purposes involves tilling the soil to a very fine texture to allow leveling or removal to another area. Several passes are usually required for this operation, particularly if the old lawn or field is well compacted and threaded with a dense root structure. Reducing the tiller width to 32” will also aid in initial surface penetration.

Fill ground should be tilled just prior to the application of top soil to aid in forming an interlaced structure between topsoil and fill soil, to aid in water and root penetration.

MIXING, BLENDING

Fertilizers, chemicals, manure, humus, old sawdust, compost or other growth producing soil additives can be effectively mixed into the soil by dispersing this material over the ground just prior to tilling. If the area to be tilled is tough then broadcast the additives between successive tiller passes to obtain more effective blending. Special purpose soil blends for potting, hothouse, greenhouse, or other applications can be quickly and easily developed with this tiller. Similarly, soil structure modifiers such as sand, gravel, sawdust and wood chips can be tilled into the soil to form a desired soil base.

ORCHARD CULTIVATION

Periodic cultivation between hedgerows or tree rows will provide a continuous rough surface for greatest absorption of water.
<table>
<thead>
<tr>
<th>TRACTOR MODEL</th>
<th>HITCH</th>
<th>HYD. PTO</th>
<th>OPTIONAL FLOW CONTROL</th>
<th>HOLDING VALVE</th>
<th>WHEEL WEIGHTS</th>
<th>HYD. LIFT</th>
<th>FRONT WEIGHTS</th>
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<tbody>
<tr>
<td>220, 222, 224</td>
<td>*** H-22, J-22 or K-22 Sleeve</td>
<td>J-17</td>
<td>*** † L-19 or M-19</td>
<td>L-7</td>
<td>K-8</td>
<td>Required (Std on 224)</td>
<td>H-18 &amp; K-8 or H-13 Box with 150# Ballast</td>
<td>D-12</td>
</tr>
<tr>
<td>444, 446, 448</td>
<td>*** H-24, J-24 or K-24 Sleeve or H-26 or J-26 3-Pt. + F-27 Sleeve Adapter</td>
<td>*** † J-17 or L-17</td>
<td>LL-9</td>
<td>K-10</td>
<td>Standard</td>
<td>H-18 &amp; K-10 or H-13 Box with 150# Ballast</td>
<td>E-18</td>
<td></td>
</tr>
<tr>
<td>644</td>
<td>LT-26 3-Pt. Hitch + F-27 Sleeve Adapter</td>
<td>LK-17</td>
<td>Not Available</td>
<td>LL-9</td>
<td>D-10</td>
<td>Standard</td>
<td>Not Available</td>
<td>LT-15</td>
</tr>
<tr>
<td>646, 648</td>
<td>LT-26 3-Pt. Hitch + F-27 Sleeve Adapter</td>
<td>LT-16</td>
<td>Not Available</td>
<td>*** L-9 or M-9</td>
<td>D-10</td>
<td>Standard</td>
<td>Not Available</td>
<td>LT-15</td>
</tr>
</tbody>
</table>

* Model 220 should be equipped with a Tiller only in light or sandy soil. Remove the 9 inch extension.

** Apply 150# ballast to front bucket.

*** See your dealer for correct attachment model number.

† Tractors with mufflers under the hood only. For mounting to prior model tractors, consult your dealer.

** OPTIONAL EQUIPMENT REQUIRED FOR BEST PERFORMANCE **

The Tiller Application Chart above provides a listing of the currently available equipment. Proper weighting of the tractor is imperative to achieve satisfactory results. Rear wheel weights and tire chains provide improved traction and stability. Front end weights will provide improved stability and steering control of the tractor. If the front weight box is used, approximately 150 pounds of ballast should be added.

** CAUTION:** Use extreme care when negotiating inclines and side slopes. Be sure to equip your tractor with a minimum of 115 pounds (52 kg) of front counterweight and 57-1/2 pounds (26 kg) of weight to each rear wheel for 200 series tractors and 150 pounds (68 kg) of front counterweight and 75 pounds (34 kg) of weight to each rear wheel for 400 series tractors with the tiller attached to obtain required overall stability.
The principle components and controls of your rotary tiller are identified in Figure 2 with the same nomenclature used throughout this manual.

The tiller tines are placed in motion by engaging the Hydraulic PTO lever. Tractor ground speed is controlled by the tractor travel lever or by a combination of the tractor travel lever and optional flow control valve if so equipped. The range selector should always be in low range when tilling.

The tiller is raised and lowered with the attachment lift lever.

Tilling should always be done with the engine at full throttle to achieve maximum power, maximum tine speed and prevent engine lug down and subsequent overheating.

After hard usage, allow the engine to run at 1/3 throttle for two to five minutes to allow engine parts to cool evenly before shutting off.

FIGURE 2
OPERATION

TILLER TINE ROTATION
NEUTRAL – FORWARD – REVERSE
When the tiller directional control valve is in the center or neutral position, the oil circulates freely without operating the tiller. When the control lever is pushed forward, the oil is directed to the hydraulic motor on the chain case to operate the tines in forward rotation. To reverse the tine rotation, simply move the control lever to the rear from the neutral position, this directs the oil through the hydraulic motor in the opposite direction. The control valve can be shut off from full forward through neutral to full reverse without adverse effect; permits dislodging of rocks, roots or other objects.

TILLER TINE SPEED
Always operate the tiller with the engine at full throttle (3600 RPM) to provide maximum tine speed for most effective tilling, high horsepower and adequate engine cooling.

Maintain close observation of the rotating speed of the tiller tines while tilling. Should soil conditions slow the tine speed, reduce tractor ground speed accordingly until tine speed returns to full RPM.

Remove the 9 inch extension in severe conditions or lift the tiller slightly to maintain high tine speed. See Adjustments, Page 12 of this manual.

LIFT LEVER OPERATION AND DEPTH ADJUSTMENT
The tiller is raised and lowered with the hydraulic lift control lever. Since the tiller is a heavy attachment, hydraulic lift is necessary on the tractor.

The hydraulic lift control lever has three operational positions, raise, lower, and float. The lever returns automatically to neutral from the raise and lower positions. The lever is held by a detent in float and must be removed manually.

If held in the “lower” position, down pressure on the tiller may be developed. This should be avoided when tilling because applying down pressure to the tiller will, in effect, remove weight from the rear wheels of the tractor and reduce traction and stability.

Adjust the depth of the tiller with the hydraulic lift lever. Do not attempt to till at maximum depth in the first pass especially when converting from grass or fallow land to a first time garden. Prepare the seedbed by tilling in successively deeper passes. The depth at each pass should be determined by soil conditions and power available from the tractor. If soil conditions slow the tine speed, raise the tiller slightly or reduce tractor ground speed appropriately to prevent engine lug down or tiller walking the tractor.

Final passes with the tiller may be made with the hydraulic lift control lever in the float position to achieve maximum depth.

TRACTOR TRAVEL SPEED
Ground travel speed should be kept slow to insure a good tilling job. Always till with the two speed transaxle in low range.

The tractor ground speed is controlled with the travel lever. By manipulating the travel lever to counteract the forces of the tiller a fine control of ground speed can be maintained. Push down slightly on travel control lever to permit smoother response. The travel lever may be moved from forward to reverse without hesitation to aid in controlling ground speed.

IMPORTANT: DO NOT BACK UP WITH THE TILLER LOWERED AS DAMAGE TO THE TILLER AND DRAG SHIELD WILL RESULT.

HYDRAULIC PTO
Moving the Hydraulic PTO handle forward causes the tiler tines to rotate forward. Moving the handle rearward causes the tines to rotate in reverse. If the tine rotation is the opposite of this, refer to the Mounting section of this manual for proper valve to tiller motor hose hook-up.

Always move the PTO handle full travel to insure maximum speed and power to the tiller.

The Hydraulic PTO may be left on the tractor when the tiller is removed.

FIGURE 3 HYDRAULIC PTO
The Hydraulic PTO may be used to drive other hydraulically driven devices. Consult your dealer for further information.

VERY IMPORTANT

Only operate the tractor with tiller hoses connected or one hose looped between the valve work ports.

Failure to observe this procedure will result in oil loss (ports left open) or pump damage (ports plugged) if the valve is actuated.

OPTIONAL FLOW CONTROL VALVE

The optional flow control valve provides more precise ground speed control when the tiller is used in adverse soil conditions or for commercial users. This is accomplished by metering oil to the tractor travel valve. The amount of metered oil depends on the position of the control valve handle and does not change with pressure requirements at the tractor drive motor.

CAUTION: The optional flow control valve is NOT a hydraulic brake. For effective RETARD, the optional flow control valve lever should be placed in the full speed position and the tractor travel lever placed in the RETARD detent. Consult your tractor operator’s manual.

Proper use of the optional flow control valve is as follows:

1. Position the optional flow control valve lever all the way rearward (off).

2. Position the tractor travel lever full forward (or reverse if desired).

3. Move the optional flow control valve lever forward to obtain the desired ground speed.

4. The tractor travel lever may be moved from forward to reverse or neutral with the optional flow control valve lever in any position.

5. The optional flow control valve lever may be left in the full speed position and travel speed and direction may then be controlled solely with the travel control lever.

6. The hydraulic attachment lift WILL NOT function with the optional flow control valve lever in the off position. The speed of the hydraulic attachment lift is directly related to the optional flow control valve lever position.

7. Maximum obtainable ground speed may be slightly less on a tractor equipped with the optional flow control valve.
ADJUSTMENTS

TIRE PRESSURE: Inflate tractor tires to the pressure specified below:

<table>
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<tr>
<th>Tire Size</th>
<th>Type</th>
<th>PSI</th>
<th>kPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.50 x 8</td>
<td>Front (High flotation)</td>
<td>14</td>
<td>96</td>
</tr>
<tr>
<td>8.50 x 12</td>
<td>Rear (High flotation)</td>
<td>10</td>
<td>68</td>
</tr>
<tr>
<td>8.00 x 16</td>
<td>Rear (High flotation)</td>
<td>14</td>
<td>96</td>
</tr>
<tr>
<td>5.70 x 8</td>
<td>Front - Transport</td>
<td>45</td>
<td>310</td>
</tr>
<tr>
<td>8.50 x 15</td>
<td>Rear - Traction</td>
<td>14</td>
<td>96</td>
</tr>
</tbody>
</table>

With front end weight applied
With rear wheel weights and tiller mounted
With rear wheel weights and tiller mounted

OFFSET MOUNTING:

Alternate hole locations in the hitch permit offsetting the tiller 3 inches to the right. This allows more precise control of the tiller when operating along plant rows or fence lines. Figure 5 shows how this is done with a sleeve hitch adapter. The same thing may be done with a sleeve hitch.

SLEEVE ADAPTOR SHOWN MOUNTED OFFSET

DRAG SHIELD:

The drag shield in its normal position serves as an additional means for breaking up the soil to a finer, uniform texture. The trailing serrations even out the tilled soil to leave a smooth surface, ready for lawn seeding or garden planting. The shield is easily removable for tilling in paddies, for rough tilling or aerating as you prefer. Refer to the assembly section of this manual for the correct drag shield removal and replacement procedure.
A retarding chisel is included with the tiller for mounting behind the chain case. This chisel aids in tractor speed control for some tilling conditions. By installing this chisel angled ahead and slightly above the cutting level of the tiller tines, it will help to prevent the tiller from driving the tractor too fast, and it will also break up the ridge under the chain case. The chisel can also be used for limiting tillage depth by setting it under the tine cutting level and angling it to the rear. There is little need for the chisel when using the tiller for normal tilling, weed control and aeration or if operating the tiller in reverse rotation.

![CHISEL ANGLED FORWARD](image1)

![CHISEL ANGLED REARWARD](image2)

**FIGURE 7 APPLICATIONS FOR RETARDING CHISEL**

Some soils are very hard, or dense with root structures resulting in extremely difficult tilling conditions. The left hand shaft and shield assemblies can be easily removed to reduce the tiller width to 32 inches for such difficult tilling conditions. At this reduced width the tiller will penetrate faster and will use tractor horsepower more efficiently.

The extension can be replaced after initial surface tilling has been completed. See Figures 8 and 11 for details on how to remove the left extension assemblies.

**REMOVABLE 9" SECTION:**

The tiller tine cutting edges should be sharpened periodically for best results.

**TILLER TINE REPLACEMENT:**

This tiller is assembled at the factory with the precise placement of each tine to achieve proper radial timing and overlapping of cutting paths. Tine timing and overlapping are critical ingredients to optimum tiller production and smooth operation, therefore, removing individual tine blades is not recommended except for replacement or reverse rotation tilling purposes.

All three tines on each outer hub plate point in toward the center of the tiller. This provides a smooth, well defined edge of cut, reduces the amount of “kick out” of material and permits closer tilling and cultivating to plants without catching foliage on the tine ends.

**FIGURE 8 TINE SECTIONS AS ASSEMBLED AT THE FACTORY WITH EXTENSION ON LEFT SIDE TO TILL OUT BOTH WHEEL TRACKS**
The tiller, including extension, consists of four individual sections, each having six removable tines and two welded triangular mounting plates. One of the corners on each mounting plate has a "flat" (Refer to Figure 10) where an identification number is stamped. With the extension on the left side as shipped from the factory the mounting plates from left to right are numbered in sequence "1" through "8" as shown in Figure 8. Operating in this manner results in 41" width and both wheel tracks will be removed if the tiller is centered on the hitch.

If required, tine section "3" and "4" can be removed, converted and installed as the center section on the right side as shown in Figure 9 for offset tilling. Remove, reverse and reassemble the tines as illustrated in Figure 10.

If fine mulching and side hilling are desired, the tines can be unbolted from their mounting plates and reinstalled so they will cut with reverse rotation. When reversing the tine mountings, interchange the tines between mounting plates "1" and "8" so the end tines will all point inward. For all other mounting plates, arrange the tines for maximum distance between them and each plate should have one "R" with two "L" tines, or two "R" with one "L" ..... do not install three "R's" or three "L's" on the same mounting plate. Use Figure 8 for reference when converting back to "forward rotation."

FIGURE 9 TINE SECTION 3 and 4 CONVERTED TO RIGHT SIDE FOR OFFSET TILLING

FIGURE 10 SECTIONS 3 and 4 ILLUSTRATING TINES CONVERTED FOR OFFSET MOUNTING TO RIGHT SIDE OF BASIC TILLER
FIGURE 11 TILLER REDUCED TO BASIC 32" WIDTH (TINE SECTION 3 and 4 IS REMOVED)

TILLER WIDTHS:

Figures 8 and 9 illustrate the tiller at full 41" cutting width. Very tough tilling conditions, or narrow crop row widths will often require reducing the tiller width from the maximum 41". Individual tine sections can be removed or shifted, resulting in a variety of combinations.

1. **32" Tilling Width** - Remove tine section "3 and 4" and relocate section "1 and 2" next to left side of chain case as shown in Figure 11. This reduces the tiller to a basic 32" cutting width with the right wheel track tilled out.

2. **19" Tilling Width** - Remove both tine sections from either side of the chain case. This results in 19" of cutting width and tills out the wheel track on whichever side the remaining two sections are mounted.

3. **27" Tilling Width** - Remove section "1 and 2" altogether. Convert section "3 and 4" as shown in Figure 9 and relocate to the right side of the chain case. This results in 27" of cutting width with tine section "7 and 8" offset.

**NOTE**  This is an ideal width adjustment where the job calls for offset tilling and conditions are too severe for full 41" cutting width. In addition to obtaining 27" of cutting width with this tine arrangement there will not be an untilled strip left under the chain case.

4. Several other "spacing" combinations can be arranged to match your gardening requirements. Always replace worn tines with genuine CASE replacement parts.
MAINTENANCE

VISUAL INSPECTION:

Check all bolts, retainers, and hydraulic connections daily for tightness. Tighten as required. Check for bent or damaged tines or shields and repair as necessary.

TILLER CHAIN HOUSING:

The chain housing is properly filled with multi-purpose gun grease at the factory and will normally not require further servicing. An inspection plug is located on the upper right side of the chain housing and grease can be added at this point if necessary. Check the chain housing for lubricant at the start of each season or if there is any evidence of leakage.

ENGINE AIR CLEANER:

The air cleaner element should be removed daily and carefully tapped on a flat surface to dislodge dust and other foreign particles. Replace the element when there is evidence that it has become saturated with dust that will not tap out. A precleaner is available from your Authorized Case Dealer and will extend the life of the air cleaner element.

ENGINE AIR INTAKE SCREEN:

Check and brush off all dirt and debris daily or more often if necessary.

ENGINE OIL LEVEL:

Check engine oil level daily. Keep level between the marks on the dipstick. Do not overfill. Refer to your tractor operator's manual for oil specifications and oil change intervals.

HYDRAULIC HEAT EXCHANGER:

Check and brush or blow all dirt and debris away from the grille and cooling fins daily or more often if necessary.

TILLER ASSEMBLY

HITCH PIN

REMOVABLE DRAG SHIELD

HYDRAULIC HOSES AND ADAPTERS

FIGURE 12 MODEL H-70 170 TILLER - DISASSEMBLED
MOUNTING THE ROTARY TILLER

1. Position the tiller on the hitch and anchor with two anchor pins.

2. Install hose adapter into tiller hydraulic motor work ports. Install hoses from the two side ports on the valve to the two work ports in the tiller hydraulic motor. The front hose on the valve should go to the top port and the rear hose on the valve should go to the bottom port in the tiller hydraulic drive motor. Refer to Figure 13.

3. Tighten the two stabilizer bolts through the hitch and against the tiller mounting bracket. See Figure 14.

4. Connect the drag shield to the mounting lugs on the tine shield and secure with two plain washers and cotter pins. Refer to Figure 13.

5. Start the tractor, raise the tiller, and check for proper tine rotation. When the PTO valve lever is moved ahead, the tines should turn in forward rotation. Should rotation be opposite, reverse the hoses on the hydraulic motor fittings.

6. Check all hydraulic connections for leaks and all valve and tine mounting bolts for tightness.

7. Check the oil level in the tractor hydraulic reservoir. Add, as necessary. Refer to Tractor Operator's Manual for proper oil level and specifications.

CAUTION: Place the hydraulic PTO lever in neutral, stop engine and remove key before making repairs or adjustments.

CAUTION: Only operate controls while seated in the operator's seat.

CAUTION: Hydraulic systems are highly pressurized. Escaping hydraulic oil, even an invisible pinhole leak, can penetrate body tissues causing serious injury. Use a piece of wood or cardboard when looking for leaks - never use the hands or other parts of the body.

Relieve hydraulic pressure before disconnecting circuits. When reassembling, make absolutely certain that all connections are tight.

If injured by hydraulic oil escaping under pressure, see a doctor immediately. Serious complications may arise if medical attention is not given at once.
1. Lower the tiller to the ground.

2. Loosen the two stabilizer bolts.

3. Disconnect one hose from the Hydraulic PTO valve and hold it elevated to minimize oil loss.

4. Disconnect the other hose from the hydraulic tiller drive motor and hold it elevated to minimize oil loss.

5. Loop each hose around to the available fitting and reconnect.

**VERY IMPORTANT** When tiller is removed, one hose must be looped between the hydraulic PTO valve ports. Failure to observe this procedure will result in oil loss (ports left open) or pump damage (ports plugged) if the valve is actuated.

6. The hydraulic PTO and optional FLOW CONTROL may be left installed on the tractor.

**NOTE:** The J I Case Company reserves the right to make improvements in design or changes in any obligations to install them on units previously sold.