

**Ingersoll**

**HYDRAULIC PTO KIT  
L17, K17, J17  
Operator's Manual 9-51204**

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**Ingersoll . . . the new name to say for Case garden tractors.**

**Ingersoll Equipment Co., Inc.      Winneconne, Wisconsin 54986-9576**



**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**

**IF THIS MACHINE IS USED BY AN EMPLOYEE OR IS LOANED OR RENTED, MAKE ABSOLUTELY CERTAIN THAT THE OPERATOR(S), PRIOR TO OPERATING:**

- 1. IS INSTRUCTED IN SAFE AND PROPER USE.**
- 2. REVIEWS AND UNDERSTANDS THE MANUAL(S) PERTAINING TO THE MACHINE.**

751253



# **WARNING**

**BEFORE STARTING ENGINE**

**STUDY OPERATOR'S MANUAL SAFETY MESSAGES  
READ ALL SAFETY SIGNS ON MACHINE  
CLEAR THE AREA OF OTHER PERSONS**

**LEARN & PRACTICE SAFE USE OF  
CONTROLS BEFORE OPERATING**

IT IS YOUR RESPONSIBILITY TO UNDERSTAND AND FOLLOW MANUFACTURER'S INSTRUCTIONS ON MACHINE OPERATION, SERVICE, AND TO OBSERVE PERTINENT LAWS AND REGULATIONS. OPERATOR AND SERVICE MANUALS MAY BE OBTAINED FROM YOUR EQUIPMENT DEALER.

## SAFETY RULES



**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 re-assembling, 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.

**IMPORTANT:** Always install new decals whenever the old decals are destroyed, lost, painted over or illegible. When individual parts are replaced that have decals attached, be sure to install a new decal with the new part. Decals are available from your authorized dealer.



Remember, a careful operator is always the best insurance against an accident. Always give complete and undivided attention to the job at hand.



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



**WARNING:** Be sure the Hydraulic PTO lever is in the neutral position before starting the tractor. This control is NOT equipped with a neutral start switch and accidental rotation of the tiller tines could cause injury.

## INTRODUCTION

The Hydraulic Power Take Off is intended to be installed on the following tractors:

J-17 K-17	220 S/N 9656747 and after 222 S/N 9658189 and after 224 S/N 9667000 and after 226 All 444 S/N 9661261 to 9766839 446 prior to S/N 9770164
L-17	444 S/N 9766840 and after 446 S/N 9770165 and after 448 All

This manual contains recommended operating procedures, safety rules, assembly and mounting instructions. Read this manual carefully before operating your hydraulic PTO.

The definitions "Right, Left, Front and Rear" as used throughout this manual relate to the tractor and hydraulic PTO as the operator is seated facing forward in the normal operating position.

**NOTE:** Ingersoll Equipment Company, Inc. 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.

## OPERATING INSTRUCTIONS

Moving the Hydraulic PTO handle forward causes the tiller 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 your Rotary Tiller operator's manual for proper valve to tiller motor hose hookup.

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

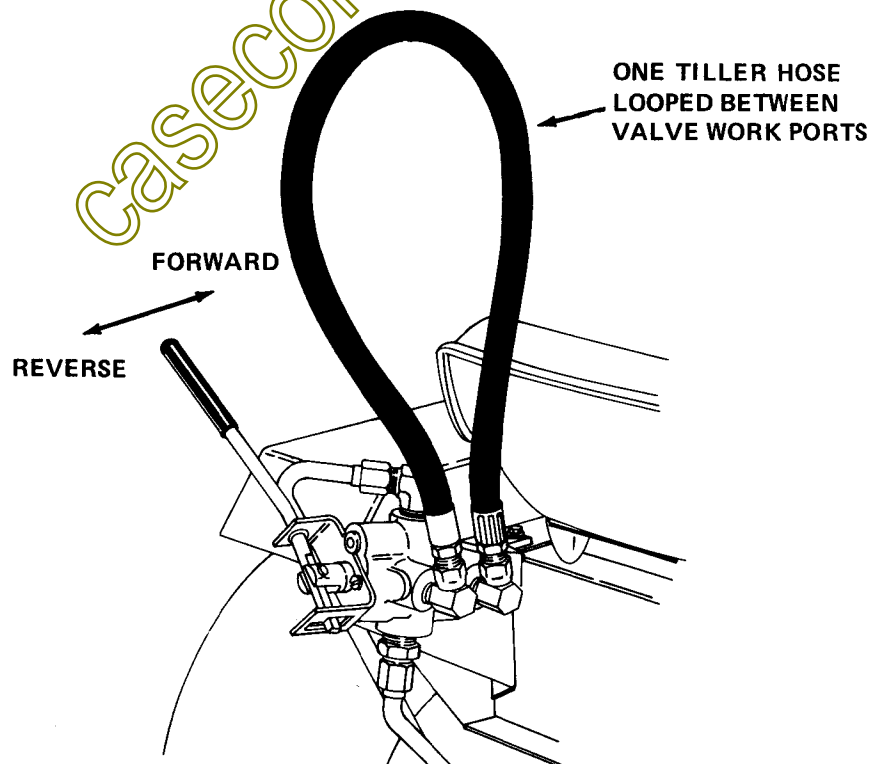
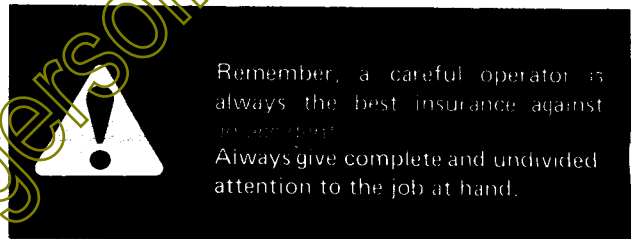


FIGURE 1

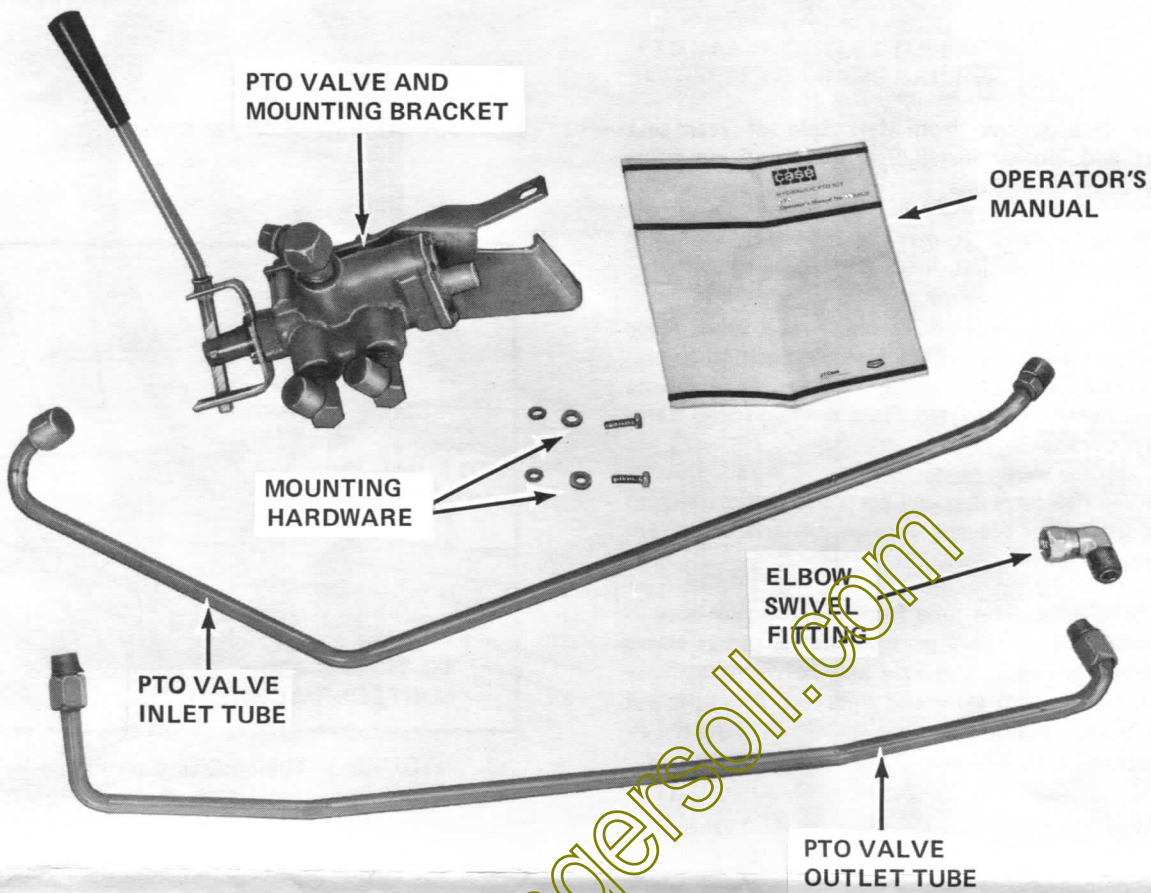


FIGURE 2 Hydraulic PTO Kit

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

**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.

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

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

**WARNING:** Be sure the Hydraulic PTO lever is in the neutral position before starting the tractor. This control is NOT equipped with a neutral start switch and accidental rotation of the tiller tines could cause injury.

## INSTALLATION

1. Remove two screws from left side of rear seat support and loosely install PTO valve and mounting bracket using new screws.

**NOTE:** In some cases it may be necessary to attach tubes to valve first, then install valve to tractor.

2. Place a clean pan under the tractor travel valve. Place the tractor travel lever in full forward position to prevent the reservoir from draining. Remove the inlet hose from the tractor travel valve. Place the two-speed transaxle in high range.

**NOTE:** Keep fittings, tubes and ports plugged as much as possible to prevent foreign material from entering.

3. Route PTO valve inlet tube from pump outlet hose to PTO valve inlet (upper) port so that it passes above the hydraulic motor and axle and between the two-speed transaxle shift lever and shift rod. This tube will be positioned second from the frame rail. Loosely attach to pump outlet hose.

4. Loosely attach PTO valve inlet tube to PTO valve inlet elbow. Elbow may have to be turned slightly to improve alignment.

5. Install the elbow swivel fitting provided on the straight male fitting at the inlet port of the travel valve.

6. Route PTO valve outlet tube between PTO valve outlet (lower) port and travel valve inlet so that it passes above the hydraulic motor and axle and between the two-speed transaxle shift lever and shift rod. This tube should lie next to the frame rail.

7. Attach this tube loosely at both ends.

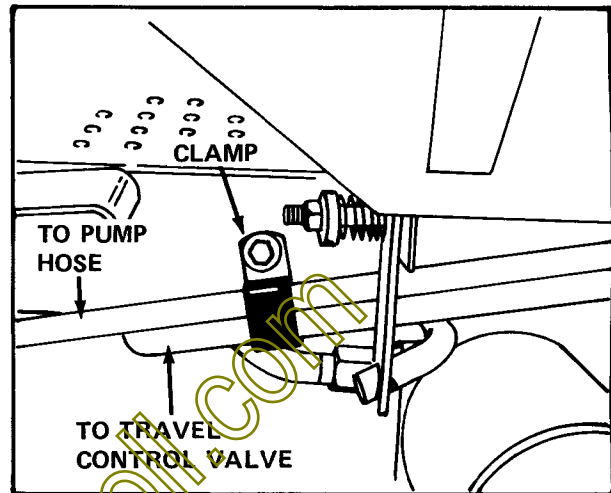


FIGURE 3 Tubing Clamp on Frame Rail

8. Use the clamp provided to clamp the hydraulic tubes to the tractor left side frame rail. Locate the clamp about 4 inches (100 mm) forward of the two speed transaxle shift lever and with the bolt hole up.

**IMPORTANT:** The tube from the pump hose must be on top. The tube to the travel control valve inlet must be on the bottom.

Centerpunch and drill a 5/16" hole in the frame rail using the hole in the clamp as your guide.

Bolt the clamp, with tubes, in position.

### 9. TIGHTEN ALL FITTINGS

**IMPORTANT:** Check all hydraulic fittings for tightness. Be sure pump outlet hose does not interfere with steering gear, frame rail or travel lever.

### VERY IMPORTANT

If the tiller is not being installed at this time, one tiller 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.



**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 re-assembling, 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.



ONE TILLER HOSE  
LOOPEB BETWEEN  
VALVE WORK PORTS

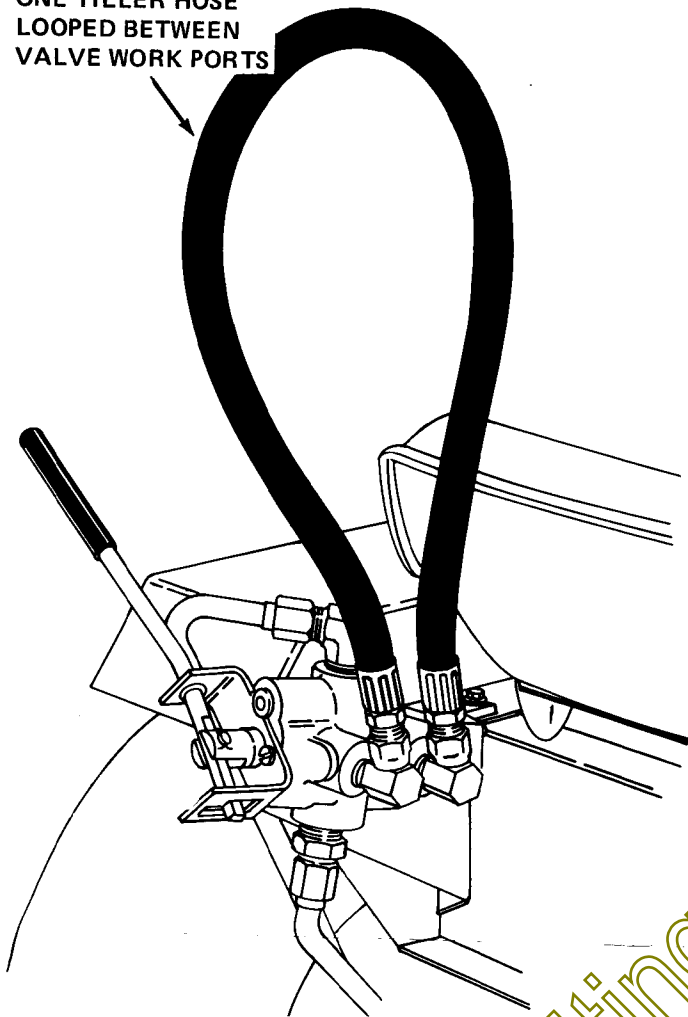


FIGURE 4 Hydraulic PTO Valve

PTO VALVE OUTLET TUBE  
(CLOSEST TO FRAME RAIL)

ELBOW SWIVEL  
FITTING

PTO VALVE INLET TUBE  
(SECOND FROM FRAME RAIL)

PTO VALVE

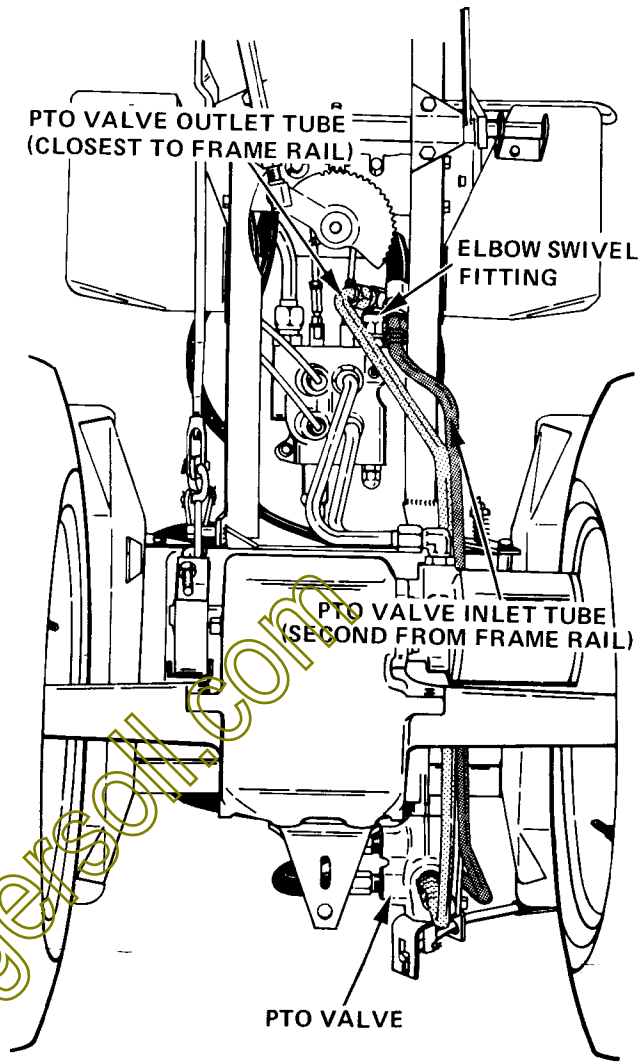


FIGURE 5 Tubing Installation

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