HAND AND FOOT CONTROLS

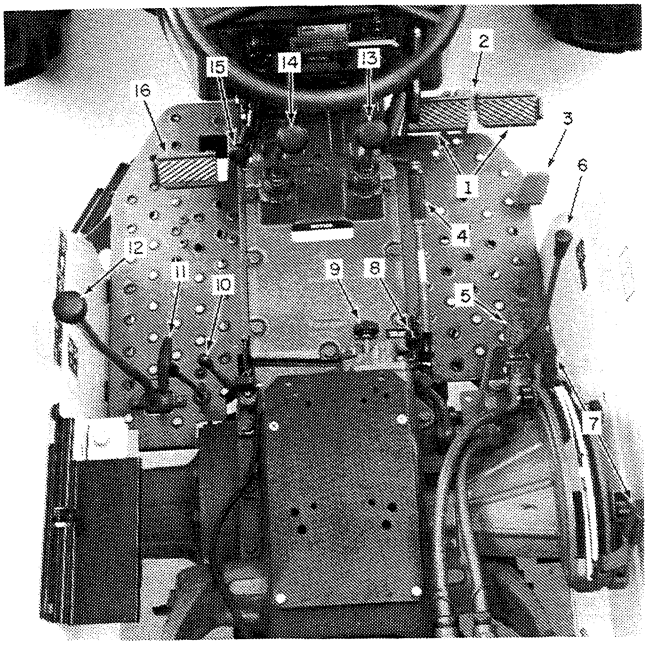


FIGURE 1-6

HAND AND FOOT CONTROLS

Figure 1-6

Ref Description

1 Foot brakes
2 Foot brake locking lever
3 Foot throttle
4 Parking brake lever
5 Differential lock pedal
6 Hydraulic remote valve control handle
7 Hydraulic lift control
8 Variospeed hydraulic control
9 Flow control
10 PTO selector lever
11 Four wheel drive control handle
12 Forward/reverse shuttle lever
13 Main shift lever
14 Range shift lever
15 Creeper gear control lever
16 Clutch pedal

Each numbered control is discussed under the corresponding headings on the following pages.

1 - Foot brakes

The foot brakes may be operated independently to aid turning in confined spaces, or together for normal stopping. When operating in the field it is advised that the brake pedals be unlocked.

WARNING: ALWAYS LOCK THE BRAKES TOGETHER WHEN TRAVELING ON THE HIGHWAY. TO LOCK THE BRAKES TOGETHER, FLIP LEVER 2, FIGURE 1-6, ON THE RIGHT BRAKE OVER TO ENGAGE THE SLOT ON THE LEFT BRAKE PEDAL.

2 - Foot brake Locking Lever

Lock brake pedals together by positioning locking lever, 2, Figure 1-6, so it engages the slot on the left brake pedal.

3 - Foot Throttle

The foot throttle may be used independently of the hand throttle to control the speed of the tractor and is recommended for use on public highways.

IMPORTANT: When using the foot throttle, set the hand throttle to the idle position.

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POWER TAKE-OFF (PTO)

INTRODUCTION

The PTO transfers engine power directly to mounted or trailed equipment via a splined shaft at the rear of the tractor.

The tractor is equipped with a PTO that can be operated in either an engine driven independent mode or relative ground speed mode. The PTO shaft can be changed to operate 540 or 1000 RPM equipment.

NOTE: Before operating the PTO read this section completely.

NOTE: The engine starting system has a safety interlock that requires the PTO selector lever 1, Figure 1-14, to be in the neutral position for the engine to start.

PTO CONTROLS

The operation of the PTO is controlled by the PTO clutch control lever and the PTO selector lever.

PTO Clutch Control Lever

Figure 1-13

Ref Description

1 PTO clutch control lever (dash mounted)
2 Release button



FIGURE 1-13

The PTO clutch is engaged and disengaged by the PTO clutch control lever, 1, Figure 1-13.

- The PTO clutch is disengaged when the lever is fully raised.
- The PTO clutch is engaged as the PTO clutch lever is lowered.

NOTE: The release button, 2, Figure 1-13, must be depressed to lower the PTO clutch control lever.

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CONTENTS

SAFETY 0-5

- THE TRACTOR 0-6
- SERVICING THE TRACTOR 0-7
- OPERATING THE TRACTOR 0-8
- DRIVING THE TRACTOR 0-9
- OPERATING THE PTO 0-10
- DIESEL FUEL 0-11
- SAFETY FRAME (ROPS) 0-12
- SAFETY DECALS 0-13

INTRODUCTION 0-17

ROLL OVER PROTECTIVE STRUCTURE 0-19

PROTECTIVE SHIELDING 0-20

UNIVERSAL SYMBOLS 0-23

SECTION 1 – CONTROLS, INSTRUMENTS AND OPERATION 1-1

- OPERATOR'S SEAT AND SEAT BELT 1-1
- INSTRUMENT PANEL – GAUGES, WARNING AND INDICATOR LIGHTS 1-3
- INSTRUMENT PANEL – CONTROLS AND SWITCHES 1-5
- HAND AND FOOT CONTROLS 1-7
- TRANSMISSION CONTROLS 1-10
- FOUR WHEEL DRIVE OPERATION 1-13
- POWER TAKE-OFF CONTROLS 1-14
- HYDRAULIC SYSTEM 1-20
- THREE-POINT LINKAGE 1-24
- ATTACHING AND DETACHING TRAILED EQUIPMENT 1-29
- REMOTE CONTROL VALVES 1-31
- TRACK WIDTH SETTINGS 1-34
- TRACTOR WEIGHTING 1-44
- STARTING THE ENGINE 1-47
- RUNNING-IN PROCEDURE 1-50
- DRIVING THE TRACTOR 1-50

SECTION 2 – LUBRICATION AND MAINTENANCE 2-1

- MAINTENANCE CHART 2-2
- WHEN WARNING LIGHT GLOWS 2-6
- ROUTINE SERVICING 2-7
- GENERAL MAINTENANCE – COOLING SYSTEM 2-32
- GENERAL MAINTENANCE – FUEL SYSTEM 2-34
- GENERAL MAINTENANCE – ELECTRICAL SYSTEM 2-36
- GENERAL MAINTENANCE – STORAGE 2-39

SECTION 3 – SPECIFICATIONS 3-1

INDEX 3-9

DELIVERY REPORT 3-11

FIRST 50-HOUR SERVICE 3-15

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SAFETY PRECAUTIONS

A CAREFUL OPERATOR IS THE BEST OPERATOR. MOST ACCIDENTS CAN BE AVOIDED BY OBSERVING CERTAIN PRECAUTIONS. TO HELP PREVENT ACCIDENTS, READ AND TAKE THE FOLLOWING PRECAUTIONS BEFORE OPERATING THE TRACTOR. EQUIPMENT SHOULD BE OPERATED ONLY BY THOSE WHO ARE RESPONSIBLE AND INSTRUCTED TO DO SO.

THE TRACTOR

1 READ THE OPERATOR'S MANUAL CAREFULLY BEFORE USING THE TRACTOR. LACK OF OPERATING KNOWLEDGE CAN LEAD TO ACCIDENTS.

2. IF YOUR TRACTOR IS EQUIPPED WITH A ROPS, USE AN APPROVED SEAT BELT FOR SAFE OPERATION. OVERTURNING A TRACTOR CAN RESULT IN DEATH OR INJURY. IF YOUR TRACTOR IS NOT EQUIPPED WITH A SEAT BELT, SEE YOUR FORD NEW HOLLAND DEALER.

3. IF A FRONT END LOADER IS TO BE INSTALLED, ALWAYS USE A FOPS CANOPY TO AVOID INJURY FROM FALLING OBJECTS.

4. USE THE HANDHOLDS AND STEP PLATES WHEN GETTING ON AND OFF THE TRACTOR TO PREVENT FALLS. KEEP STEPS AND PLATFORM CLEARED OF MUD AND DEBRIS.

5. DO NOT PERMIT ANYONE BUT THE OPERATOR TO RIDE ON THE TRACTOR. THERE IS NO SAFE PLACE FOR EXTRA RIDERS.

6. REPLACE ALL MISSING, ILLEGIBLE, OR DAMAGED SAFETY DECALS.

7. KEEP SAFETY DECALS CLEAN OF DIRT AND GRIME.

8. INSTALL ALL SHIELDS BEFORE STARTING OR OPERATING THE TRACTOR.

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New Holland Warranty Detail

The warranty period will begin on date of original retail sale or date of original use, whichever is earlier.

- The obligation of Company to the purchaser under this warranty is limited to the repair or replacement of defective parts by an authorized New Holland dealer and will be done free of charge for both parts and labor using genuine New Holland replacement parts. Repair or replacement in accordance with this warranty shall constitute fulfillment of all liabilities of Company and the Selling Dealer in respect to such Products.
- Repairs or replacements will be performed by the Selling Dealer, following delivery of the Product by the purchaser to the Dealer's place of business. When the purchaser has moved a long distance from the Selling Dealer, or the Selling Dealer is no longer in business, any New Holland dealer authorized to sell and service the described Products may perform the repair at its dealership.
- The Selling Dealer shall review these warranty provisions with the purchaser prior to retail sale, secure his acknowledgement of delivery of this warranty and record the date of original retail sale or date of original use.
- To obtain warranty service, the purchaser must (1) report the product defect to an authorized New Holland dealer and request repair within the applicable warranty term and (2) present evidence of the warranty start date.

WHAT IS NOT COVERED BY THE WARRANTY?

This warranty shall NOT apply under the following conditions:

(i) With respect to vendor warranty items such as Allison transmissions and Deutz, Cummins and Caterpillar engines, or tires, tubes, and attachments which shall be warranted by their manufacturer, or local representative thereof.

(ii) If the unit has been subject to misapplication, abuse, misuse, negligence of proper maintenance or other negligence, fire or other accident.

(iii) If parts or attachments other than those made or marketed by New Holland North America, Inc. or New Holland Canada, Ltd., have been used in connection with the unit, and in the sole judgment of Company such use affects its performance, stability or reliability.

(iv) If the unit has been altered or repaired outside of a New Holland dealership in a manner which, in the sole judgment of Company, affects its performance, stability or reliability.

(v) Batteries are covered by a separate pro rata adjustment warranty. The pro-rata plan covers the battery fully for the basic product warranty period as indicated, with any remaining warranty pro-rated according to the months of service.

(vi) The purchaser shall be responsible for payment of dealer travel time to the machine or to deliver the machine to the dealer's service shop for repair. New Holland warranty does not cover delivery charges or travel time.

(vii) The Company shall have no liability for used equipment sold beyond the specified coverage period.

(viii) No warranty shall apply to damage resulting from accident or damage caused by environment (such as exposure to corrosive material). The Company shall not be responsible for rental equipment used to replace the equipment being repaired.

(ix) This warranty shall NOT apply to normal maintenance services (such as tune-ups, fuel injection system cleaning or wheel, brake and clutch adjustments), to normal replacement of service items (such as filters and brake or clutch linings), or to normal deterioration due to use or exposure (such as belts and exterior finish). New Holland shall not be responsible for normal replacement parts such as cutting knives, chains, belts, clutches, filters, oil, or other parts which are worn out, unless they are determined to be defective in material or workmanship.

(x) This warranty shall NOT apply to any New Holland Product which is retailed or distributed by anyone other than New Holland North America, Inc. or New Holland Canada, Ltd., through its authorized dealers. This warranty shall NOT apply to any Product which is normally operated outside of the United States, and/or Canada.

(xi) This warranty shall NOT apply if the purchaser, insurance company, or any other entity or individual acting on behalf of the purchaser seeks reimbursement for the dollar value of the repair(s) or replacement(s) covered under this warranty.

(xii) If the injection pump has been set for fuel delivery above New Holland specifications.

RIGHT TO MAKE DESIGN CHANGES

Company reserves the right to make changes in the design and other changes in its products at any time and from time to time without notice and without incurring any obligation with respect to any product previously ordered from it, sold or shipped by it.

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UNIVERSAL SYMBOLS

As a guide to the operation of your tractor various universal symbols have been utilized on the instruments and controls. The symbols are shown below with an indication of their meaning.

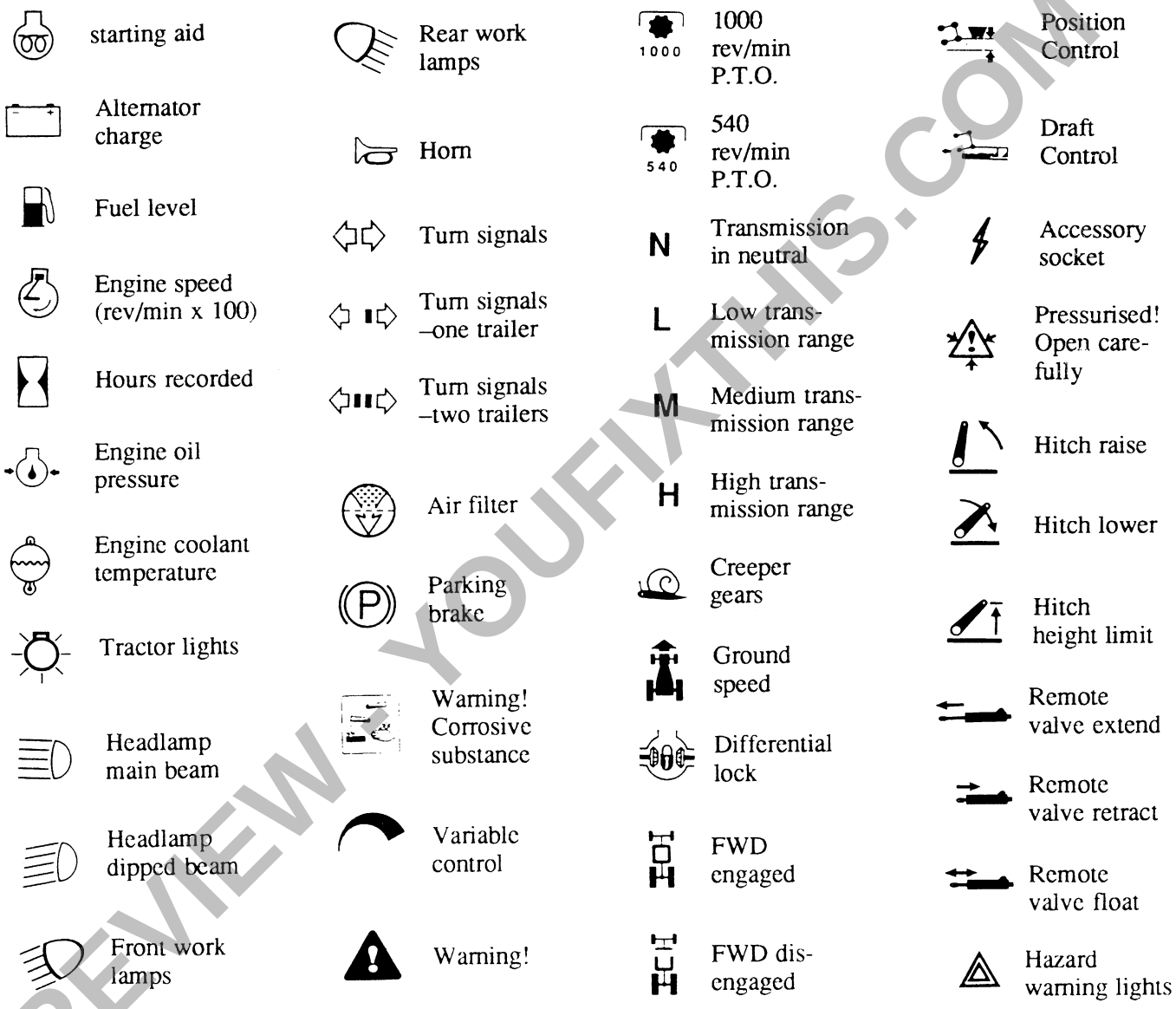


FIGURE 0-10

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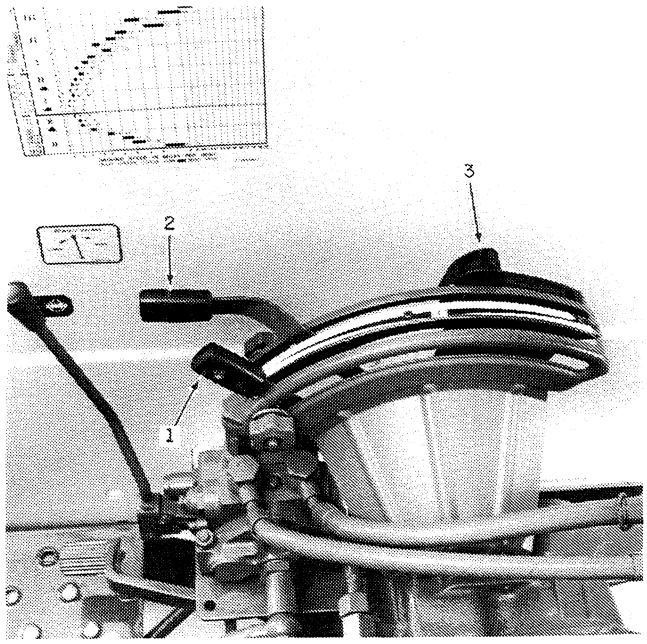


FIGURE 1-17

Draft and Position Controls

Figure 1-17

Ref Description

1 Draft control lever
2 Position control lever
3 Lift-O-Matic locking knob

Position Control

Position Control provides accurate and sensitive control of implements such as sprayers, rakes, mowers, etc. that operate above the ground. Position Control can also be used with ground engaging equipment which must maintain a constant depth regardless of the draft load.

IMPORTANT: Always set the hydraulic system in Position Control when attaching and transporting equipment.

To Set Position Control

- Move the draft control lever, 1, Figure 1-17, fully forward.
- Set implement position below or above ground by moving lever, 2, Figure 1-17, forward to lower and rearward to lift. Implement movement will be proportional to lever travel.
- To raise and lower implement at the beginning and end of each pass, use Lift-O-Matic system.

Combined Draft And Position

In soft ground conditions it may be desirable to use a combination of both Draft and Position control.

Proceed as follows to set the hydraulic system.

- Lower the implement to the desired depth as described for draft control.
- When the implement stabilizes at the desired depth, progressively move the position control lever, 2, Figure 1-17, back until the lift arms start to rise.
- The lift operates in draft control but at the same time prevents the implement from lowering excessively in the event of a decrease in soil resistance.
- To raise and lower the implement at the start and end of each pass, use Lift-O-Matic system.

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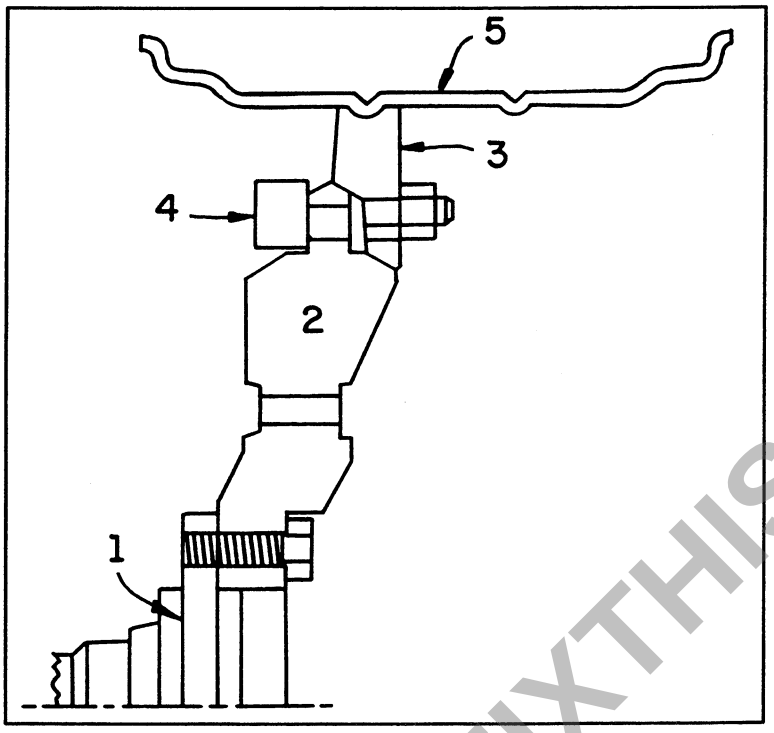


FIGURE 1-39

Adjusting 42″ Manual Adjust Cast Disc Wheels

Figure 1-39

Ref Description

1 Hub
2 Disc
3 Clamp
4 Bolt and nut
5 Rim

Rear wheels on two wheel drive units may be equipped with cast disc manual adjust wheels. Observe the following when determining or changing track spacing.

1. Distances indicated in the track spacing charts are from the center line of one tire to the center line of the opposite tire.
2. Select the most suitable rear track width first then a corresponding front track width.
3. Track adjustment may be altered by changing the position of the wheel rim relative to the clamps, the clamps relative to the disc, the disc relative to the axle hub or by inter-changing the wheels. Refer to Figure 1-38.

NOTE: To avoid changing tires on the rims when it is necessary to reverse the location of the rim mounting, move the tire and rim to the other side of the tractor.

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EVERY 50 HOURS OF OPERATION

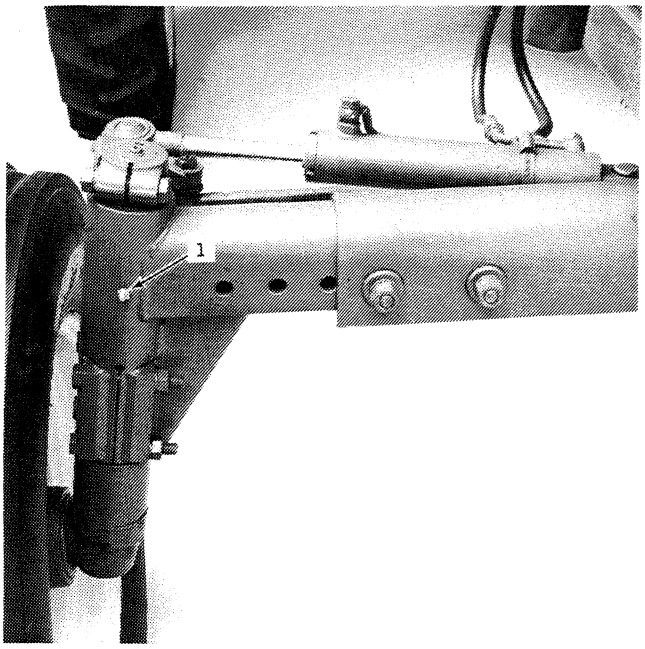


FIGURE 2-17

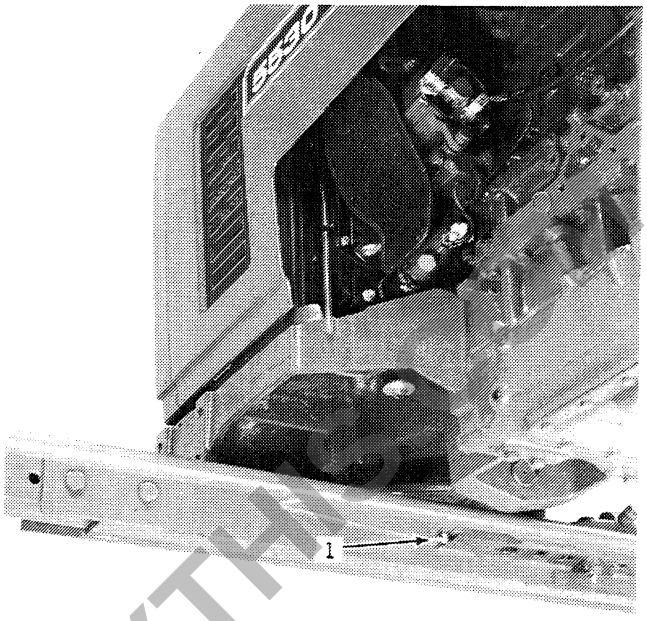


FIGURE 2-18

FRONT AXLE SPINDLE (2WD)

Figure 2-17

Ref	Description
1	Fitting (one each spindle)

Lubricate the front axle spindles (one fitting per spindle).

See Section 3 for correct grade of lubricant.

FRONT AXLE PIVOT (2WD)

Figure 2-18

Ref	Description
1	Fitting

Lubricate the pivot.

See Section 3 for correct grade of lubricant.

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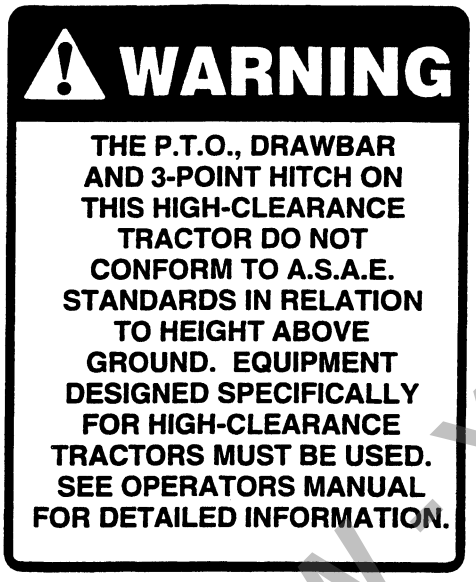
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Location: Rear, inside of left-hand fender



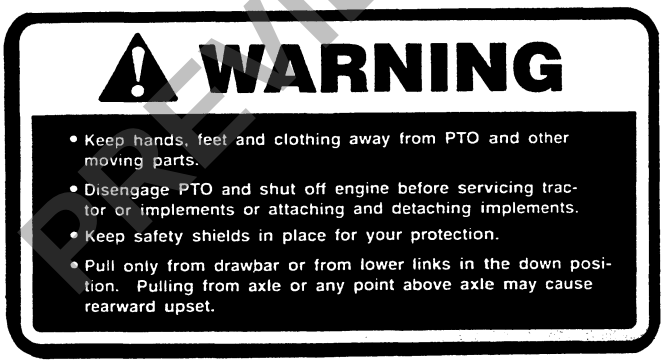
Location: Top of PTO Master shield



Location: Rear, inside of left-hand fender



Location: Top of PTO Master shield



Location: Rear, inside of right-hand fender

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4 - Power Point (If Fitted)

Provides a means of plugging in remote 12 volt electrical equipment.

5 - Fuse Box

Contains fuses for protection of the electrical system. (See electrical system for further detail.)

6 - Cold Start Aid Control Switch

Used for cold weather starting. (See section on Cold Weather Starting for more detail on starting procedures.)

7 - Hazard Warning Control and Indicator

The hazard control is always live, even with key removed from key switch. Press to activate and press again to switch off. For your protection use hazard warning lights when traveling on public roads unless prohibited by law.

8 - Turn Signal Switch

Push switch sideways to activate the direction of turn desired.

9 - Light Switch And Horn Button

(Ignition needs to be on to operate.) Rotate clockwise one notch to turn on parking lights, two notches to turn on low beam headlights and three notches to turn on high beam headlights. Push the button to actuate the horn.



CAUTION: WHEN DRIVING ON THE ROAD, ALWAYS SIGNAL WHEN STOPPING, TURNING OR REDUCING SPEED.

USE APPROPRIATE SLOW MOVING VEHICLE SIGNS WHEN OPERATING ON PUBLIC ROADS.

10 - STEERING WHEEL

The tractor is equipped with hydrostatic power steering for maximum ease of driving.

IMPORTANT: Never hold the steering wheel against either of the steering stops for more than 10 seconds continuously or for more than a total of 10 seconds in any one minute. Failure to observe this precaution may result in damage to the steering system components.

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HYDRAULIC SYSTEM

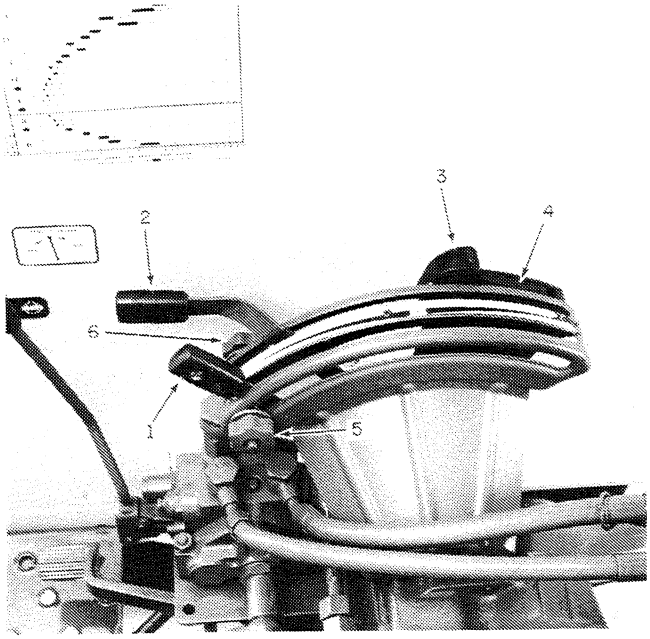


FIGURE 1-16

Hydraulic Controls

Figure 1-16

Ref Description

1 Draft control lever
2 Position control
3 Lift-O-Matic locking knob
4 Lift-O-Matic lever
5 Draft control adjustable stop
6 Position control adjustable stop

INTRODUCTION

Your tractor is equipped with a hydraulic system providing accurate and sensitive control over a wide range of operating conditions. The hydraulic lift system uses the axle lubricating oil. Pressure is obtained by means of an engine driven hydraulic gear type pump. The lift senses the load on the lower links through the sensing bar.

The tractor hydraulic system includes the following functions: Draft Control, Position Control, Combined Draft and Position Control, Float Lift-O-Matic.

HYDRAULIC SENSITIVITY

Draft Control

Draft Control is most suitable for mounted implements operating in the ground. Changes in the working depth or soil resistance cause the draft loading on the implement to increase or decrease. This change in draft loading is sensed through the lower links of the three-point linkage and the hydraulic system responds by raising or lowering the implement to restore the draft loading. In this way a uniform draft load is maintained on the tractor.

To Set Draft Control

- Move position control lever, 2, Figure 1-16, fully forward.

- Move draft control lever, 1, Figure 1-16, progressively forward to bring the implement to the desired depth. Implement depth will be proportional to draft as determined by ground consistency. In this condition the hydraulic system automatically keeps the tractive effort steady.

- To fast raise implement at the end of each pass, simply push the Lift-O-Matic locking knob, 3, Figure 1-16, rearward which releases the lift lever, 4. To lower implement, push downward on the Lift-O-Matic lever, 4, until it snaps in place. See "Lift-O-Matic" heading for additional information.

NOTE: Lift-O-Matic will fast raise and lower the implement to the original depth setting without changing the position or draft setting.

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