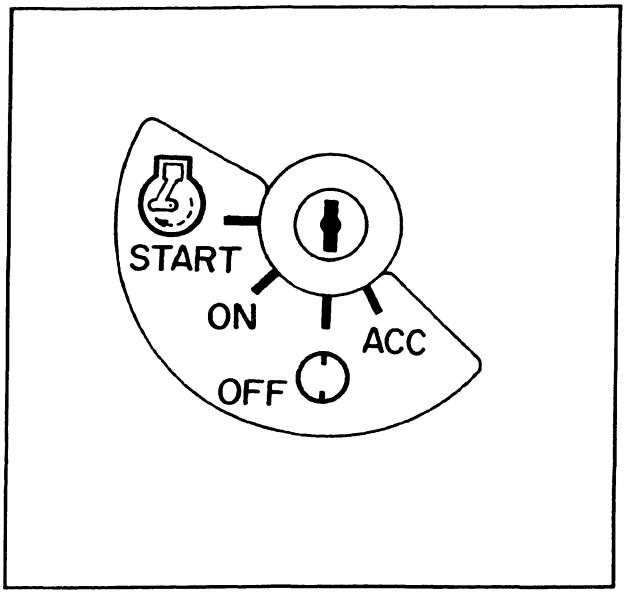


FIGURE 1-6

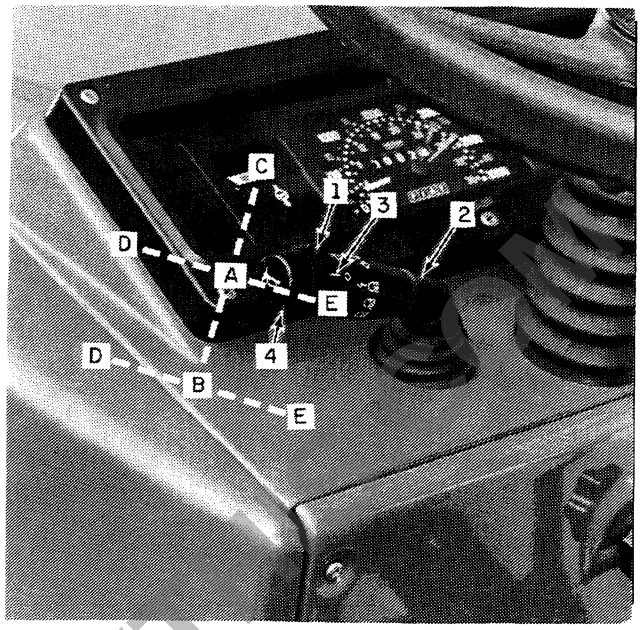


FIGURE 1-7

1 - Hand Throttle

Pull rearwards to progressively increase the engine speed.

2 - PTO Clutch Lever

Pull up on the lever to disengage the PTO. Push down to engage the PTO (See PTO section for more information on operation.)

3 - Key Start/Stop Switch

Figure 1-6

The switch actuates the starting motor when turned fully clockwise. Also turns engine off when key is turned to the "OFF" position. See "Starting the Engine" in this section for operating procedure.

The switch positions control the following functions:

OFF	Stops the engine. Key is removable in this position.
ON	Engine run circuits energized. Instruments and warning lights operate and light and control circuits are energized.
START key	Engages the starter. When released springs back to the ON position.
ACCESSORY	Parking lights, instrument lights, and rear work light switch is activated. Key is removable in this position.

4 - Power Point (if fitted)

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

5 - Fuse Box

Contains fuses to protect the electrical system. (See electrical system for further detail.)

6 - Cold Starting Aid Control

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

The Model 3830 uses thermostart for a cold start aid. The Models 4030, 4230, and 4430 use ether for a cold start aid.

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.

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LUBRICATION AND MAINTENANCE CHART FOR ALL MODELS

HOURS OF OPERATION	OPERATION & FIGURE NUMBER	SERVICE REQUIREMENT	CHECK	CLEAN	LUBE	CHANGE	ADJUST	DRAIN	WASH
WHEN WARNING LIGHT GLOWS	2-2, 2-3	Air Cleaner	X	X					
EVERY 10 HOURS OF OPERATION OR DAILY	2-4	Engine Oil Level	X				X		
	2-5, 2-6	Air Cleaner Dust Collector		X					
	2-7, 2-8	Radiator Coolant Level	X				X		
	2-9	Radiator Core	X	X					
	2-10	Power Steering Oil Level	X				X		
EVERY 50 HOURS OF OPERATION	2-11	Fan belt	X				X		
	2-12	PTO Clutch Lever Free Travel	X				X		
	2-13, 2-14	Clutch Pedal Free Travel	X				X		
	2-15	Fuel Filter						X	
	2-16	Front and Rear Wheel Nuts	X				X		
	2-17	Tire Pressure	X				X		
	2-18	Three Point Hitch			X				
	2-19, 2-20	Front Axle Spindle (2WD)			X				
	2-21, 2-22	Front Axle Pivot (2WD)			X				
	2-23, 2-24	Steering Cylinder Pivot (2WD)			X				
	2-25, 2-26	Steering Cylinder (FWD)			X				
	2-27	Axle Pivots (FWD)			X				
	2-28	Rear Wheel Hubs			X				
	2-29	Brake Cross Shaft			X				
EVERY 200 HOURS OF OPERATION	2-30, 2-31	Engine Oil *				X			
	2-32	Fuel Filter				X			
	2-33	Fuel Pump Inner Filter		X					X
	2-34	Battery Electrolite Level	X				X		
	2-35, 2-36, 2-37, 2-38	Foot Brake Free Travel	X				X		
	2-39, 2-40	Parking Brake	X				X		
	2-41	Transmission Breather	X	X					

* Oil change and oil filter replacement intervals will be reduced if the diesel fuel has a high sulfur content, or if the tractor is operated in extremely cold temperatures. See Section 3 for additional information.

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SECTION 3

SPECIFICATIONS

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CONTENTS

SAFETY 0-5

THE TRACTOR 0-6
DIESEL FUEL 0-11
ROLL BAR (LESS CAB MODELS ONLY) 0-12
SAFETY CAB (WITH CAB MODELS ONLY) 0-13
SAFETY DECALS 0-14

INTRODUCTION 0-17

ROLL BAR 0-19

SAFETY CAB/ROPS 0-22

PROTECTIVE SHIELDING 0-23

UNIVERSAL SYMBOLS 0-26

SECTION 1 – CONTROLS, INSTRUMENTS AND OPERATION 1-1
OPERATOR'S SEAT AND SEAT BELT 1-1
INSTRUMENT PANEL – GAUGES AND WARNING LAMPS 1-3
INSTRUMENT PANEL – CONTROLS AND SWITCHES 1-5
HAND AND FOOT CONTROLS 1-8
TRANSMISSION 1-11
FOUR WHEEL DRIVE (FWD) 1-14
POWER TAKE-OFF (PTO) 1-15
HYDRAULIC SYSTEM 1-21
THREE-POINT LINKAGE 1-25
ATTACHING AND DETACHING TRAILED EQUIPMENT 1-31
REMOTE CONTROL VALVES 1-33
TRACK WIDTH ADJUSTMENTS 1-37
FRONT WHEEL TRACK SETTING 1-42
REAR WHEEL TRACK SETTING 1-45
TRACTOR WEIGHTING 1-50
CAB CONTROLS AND OPERATION 1-53
STARTING THE ENGINE 1-60
BREAK-IN PROCEDURE 1-63
DRIVING THE TRACTOR 1-64

SECTION 2 – LUBRICATION AND MAINTENANCE 2-1
LUBRICATION AND MAINTENANCE CHARTS 2-2
WHEN WARNING LAMP GLOWS 2-7
ROUTINE SERVICING 2-8
GENERAL MAINTENANCE – COOLING SYSTEM 2-46
GENERAL MAINTENANCE – FUEL SYSTEM 2-48
GENERAL MAINTENANCE – ELECTRICAL SYSTEM 2-50
GENERAL MAINTENANCE – STORAGE 2-53
ADDITIONAL MAINTENANCE – CAB TRACTORS 2-54

SECTION 3 – SPECIFICATIONS 3-1

INDEX 3-10

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 PERCAUTIONS. 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 ROLL BAR OR SAFETY CAB, 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.

DANGER: WHEN IMPROPERLY OPERATED, A TRACTOR CAN ROLL OVER OR UPSET! FOR LOW CLEARANCE USE ONLY, THE ROLL BAR CAN BE LOWERED. NO PROTECTION IS PROVIDED WHEN THE TRACTOR IS OPERATED WITH THE ROLL BAR IN THE LOWERED POSITION. ALWAYS RAISE THE ROLL BAR IMMEDIATELY AFTER LOW CLEARANCE USE. WHEN THE TRACTOR IS BEING DRIVEN TO AND FROM A LOW CLEARANCE JOB, THE ROLL BAR SHOULD BE IN THE RAISED POSITION. WHEN THE ROLL BAR IS LOWERED, USE OF THE SEAT BELT IS NOT RECOMMENDED. ALWAYS USE THE SEAT BELT WHEN THE ROLL BAR IS RAISED. SEAT BELTS SAVE LIVES WHEN THEY ARE USED. DO NOT USE THE SEAT BELT WHEN THE ROLL BAR IS NOT INSTALLED ON 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 fulfillmen 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 purchase to the Dealer's place of business. When the purchaser has moved a long distance from the Selling Dealer, o the Selling Dealer is no longer in business, any New Holland dealer authorized to sell and service the describec 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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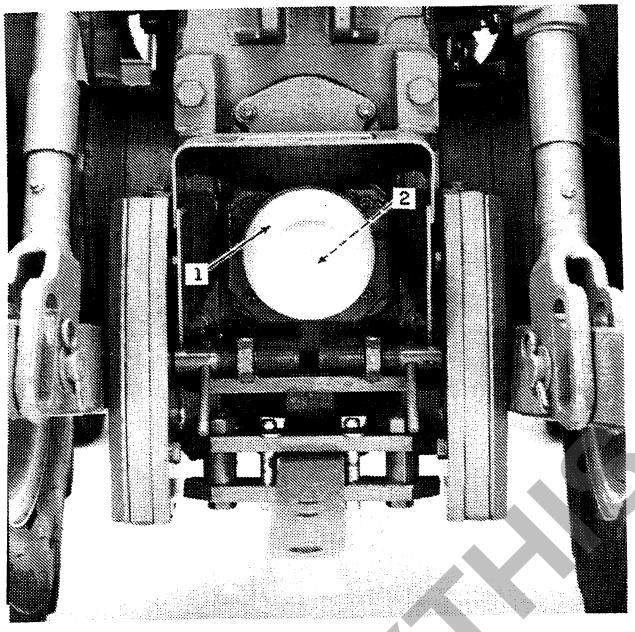


FIGURE 0-12

TRACTOR P.T.O. STUB SHAFT COVER

Figure 0-12

Ref Description

1 Cover
2 P.T.O. stub shaft

The plastic cylindrical cover, 1, should be installed over the tractors P.T.O. stub shaft, 2, when the shaft is not attached to an implement.

WARNING: INSTALL ALL PROTECTIVE SHIELDS BEFORE STARTING OR OPERATING THE TRACTOR.

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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 1-25, fully forward.
- Set the implement position below or above ground by moving lever, 2, Figure 1-25, forward to lower and rearward to lift. Implement movement will be proportional to lever travel.
- To raise and lower the implement at the beginning and end of each pass, use the 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 1-25, back until the lift arms tend 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 the Lift-O-Matic system.

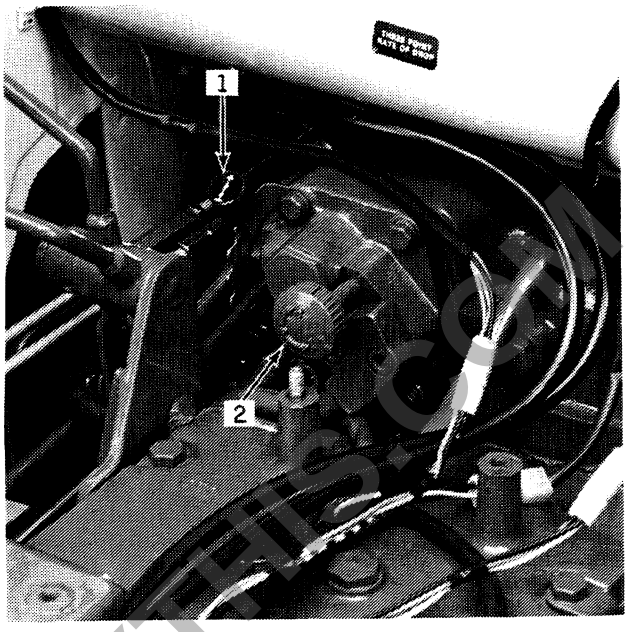


FIGURE 1-26

Variable Flow Hydraulic Controls

Figure 1-26

Ref	Description
1	Variospeed lever
2	Flow control lever

Variospeed

Draft sensitivity can be adjusted by repositioning the Variospeed Lever, 1, Figure 1-26.

This four-position lever is used to vary sensitivity when working with draft and combined position control.

- Up (+) = Longer reaction times (low sensitivity)
- Down (-) = Shorter reaction times (high sensitivity)

With low sensitivity, the implement weight is transferred to the rear wheels slower, thus increasing traction.

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REAR WHEEL TRACK SETTING

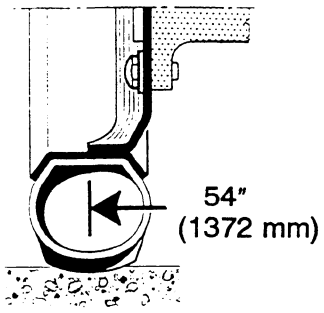


FIGURE 1-53

Models 4030, 4230, and 4430 with Fixed Wheels and 18.4 – 16.1 Tires

Rear wheels with a fixed offset or manual adjust are available.

Refer to the heading corresponding to the rear wheel and tire combination on your tractor for track adjustment information.

NOTE: The track width dimensions shown may vary from your actual measurements depending on specific wheel and tire combination and manufacturers.

NOTE: Prior to adjusting track width, refer to the "Manual Adjustable Wheel" heading for additional information.

FIXED REAR WHEEL TRACK SPACING

Models 4030, 4230, 4430 with Fixed Wheels and 18.4 x 16.1 Tires

Figure 1-53

Fixed wheel are not adjustable because the disc is welded to the rim. The only track spacing is 54" (1372 mm) as shown in Figure 1-53.

NOTE: Refer to the "Manual Adjustable Wheel" heading for removal and installation information.

Torque the disc to hub bolts to 188 ft. lbs. (255 N·m).

MANUAL ADJUST REAR WHEEL TRACK ADJUSTMENT

Rear wheel track adjustment may be altered by changing the wheel rim relative to the center disc, the rim and/or the disc relative to the axle hub or by interchanging the rear wheels.

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ADDITIONAL MAINTENANCE CHART FOR CAB MODELS

HOURS OF OPERATION	OPERATION & FIGURE NUMBER	SERVICE REQUIREMENT	CHECK	CLEAN	LUBE	CHANGE	ADJUST	DRAIN	WASH
EVERY 10 HOURS OF OPERATION OR DAILY	2-71	Air Conditioner Condenser	X	X					
EVERY 50 HOURS OR WEEKLY	2-72	Air Conditioner Compressor Belt	X				X		
	2-73	Cab Air Filter	X	X					
EVERY 800 HOURS OF OPERATION OR ANNUALLY	2-74	Cab Air Filter				X			
AS REQUIRED	2-76	Windshield Washer Fluid					X		
	2-76	Air Conditioner Dehydrator	X						
	2-77	Fuse Replacement				X			

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200 HOUR SERVICE

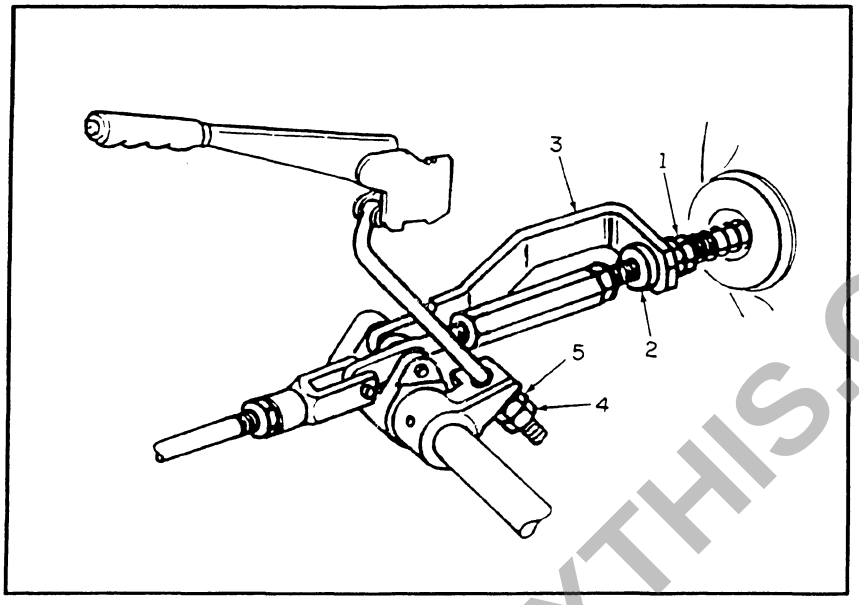


FIGURE 2-39

PARKING BRAKE

Model 3830

Figure 2-39

Ref	Description
1	Locknut
2	Adjusting sleeve
3	Bracket
4	Locknut
5	Adjusting nut

After adjusting the foot brakes, check the parking brake adjustment.

From the fully released position the hand brake should move through four clicks to fully restrain the tractor. The lever should not travel beyond and should lock in the fourth click position. If adjustment is required start on the right brake linkage and:

- Block both rear tires, front and rear.
- Release the parking brake.
- Loosen locknut, 1.
- Adjust sleeve, 2, until it contacts bracket 3.
- Tighten locknut, 1.

Repeat procedure on the left brake linkage.

After both linkages are adjusted set the parkin brake travel as follows:

- Loosen locknut, 4.
- Adjust nut 5, until the parking brake full retains the tractor and locks in the fourth clic position.
- Tighten locknut, 4.

WARNING: OWNER SHOULD BE AWARE O LOCAL REGULATIONS CONCERNING THI BRAKING SYSTEM. REGULARLY MAINTAI THE BRAKES TO ENSURE COMPLIANC WITH THE LAW AND ENSURE YOUR SAFET IF IN DOUBT, CONTACT YOUR AUTHORIZE FORD NEW HOLLAND DEALER.

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FIGURE 2-69

USES

igure 2-69

ef	Description
	Fuse box cover

ıe fuse panel is located as shown in Figure 2-69. emove the protective cover, 1, to expose the ses.

)TE: Do not expose the fuses except to serv- e them.

ior to replacing a blown fuse trace and correct e fault.

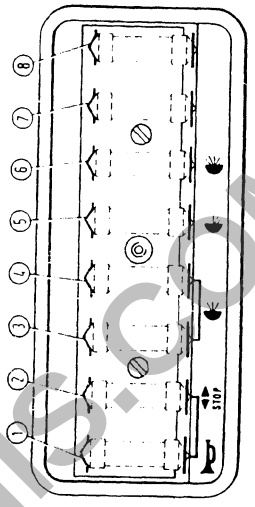


FIGURE 2-70

FUSE LOCATIONS

Figure 2-70

Refer to Figure 2-70 for fuse location and to the following chart for identification.

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