INSTRUMENT PANEL - CONTROLS AND SWITCHES

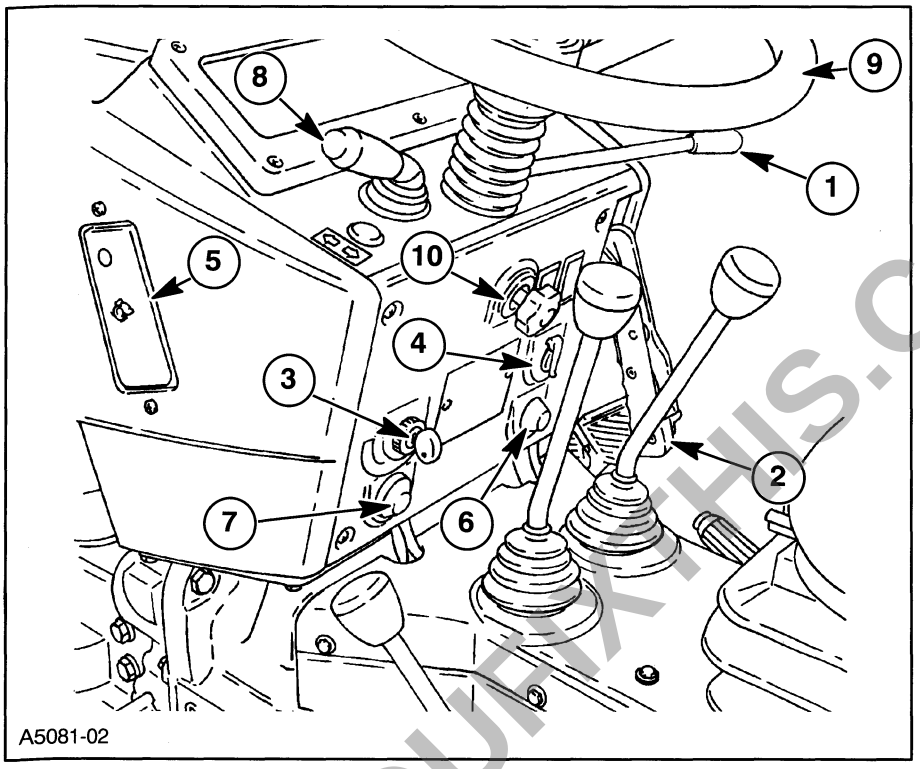


Figure 1-7

CONTROLS AND SWITCHES

Model 3830

Ref	Description
1	Hand throttle
2	PTO clutch lever
3	Key start/stop switch
4	Power point
5	Fuse box
6	Cold starting aid control
7	Hazard warning control
8	Turn signal, light switch and horn button
9	Steering wheel
10	Steering wheel height control knob

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

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TRANSMISSION

INTRODUCTION

Your tractor is equipped with a 12 forward and 12 reverse speed transmission with a mechanical synchromesh shuttle.

Shift Lever Pattern

12x12 transmission

The transmission shift levers operate in a conventional H style pattern. A decal showing the shift patterns, is located below the instrument panel. See Section 3 for information on forward and reverse speeds.

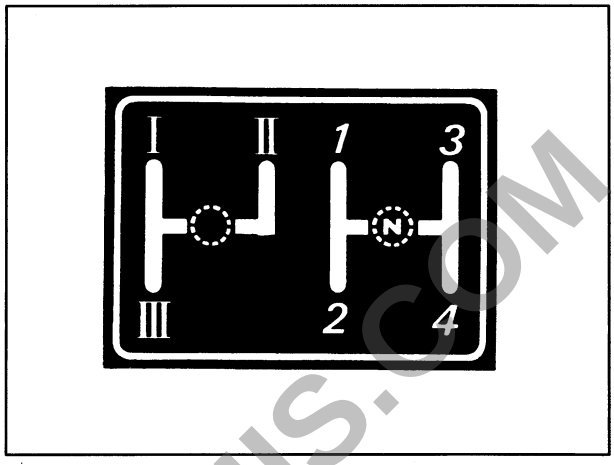


Figure 1-17

Main Shift Lever

The main shift lever, 1, provides four gear ratios.

To shift up and down, depress the clutch pedal and shift the main gear lever. The tractor need not be stopped to shift, as all main gears are synchromesh.

IMPORTANT: Fully depress the clutch when shifting gears. Partial depression of the clutch when changing gears with a synchromesh transmission may result in damage to the transmission components. Also, when shifting down, select the next lower gear in order to avoid damaging the clutch or overspeeding the engine.

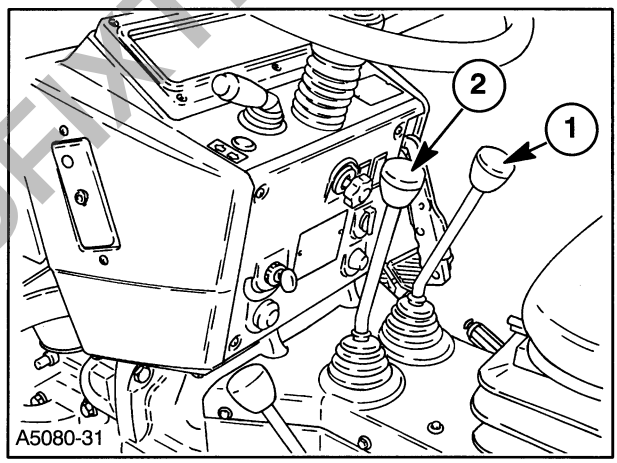


Figure 1-18

Range Shift Lever

The range lever, 2, provides three ranges.

Range designations are:

I Low

II Medium

III High

To change the gear range, depress the clutch, stop the tractor, move the range lever as required to select the appropriate range, then reengage the clutch.

ATTENTION: Always declutch and stop the tractor before shifting the range lever.

WARNING: TO PREVENT INADVERTENT TRACTOR MOVEMENT, AVOID ACCIDENTAL CONTACT WITH THE GEARSHIFT LEVERS. ALWAYS STOP THE ENGINE, FIRMLY APPLY THE PARKING BRAKE AND PLACE BOTH GEARSHIFT LEVERS IN NEUTRAL BEFORE DISMOUNTING.

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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 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 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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SECTION 1

CONTROLS, INSTRUMENTS AND OPERATION

OPERATOR'S SEAT AND SEAT BELT

The following pages in this section detail the location and function of the various instruments, switches and controls on your tractor. Before attempting to operate the tractor, study this section carefully and ensure you are thoroughly familiar with all aspects of operation.

Reference to tractor options or accessories not fitted to your tractor should be ignored. If in doubt about any aspect of operation of the tractor, consult your New Holland dealer.

Particular attention should be paid to the recommendations related to the break-in period to ensure that your tractor will give the long and dependable service for which it was designed.

SEAT

Seat Adjustment

The operator's seat, 1, is ride, height, and fore-aft adjustable.

Ride Adjustment

For maximum safety, the ride should not be too soft, especially on rough ground.

To adjust, turn the ride control lever, 2, Figure 1-2 for cab models, Figure 1-3 for ROPS models.

- Clockwise for a firmer ride.
- Counterclockwise for a softer ride.

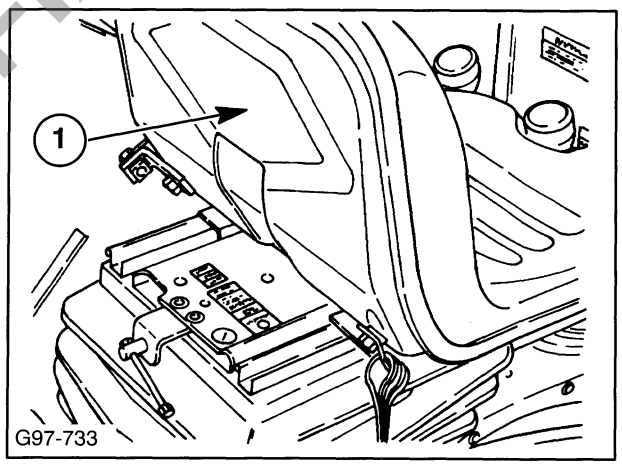


Figure 1-1

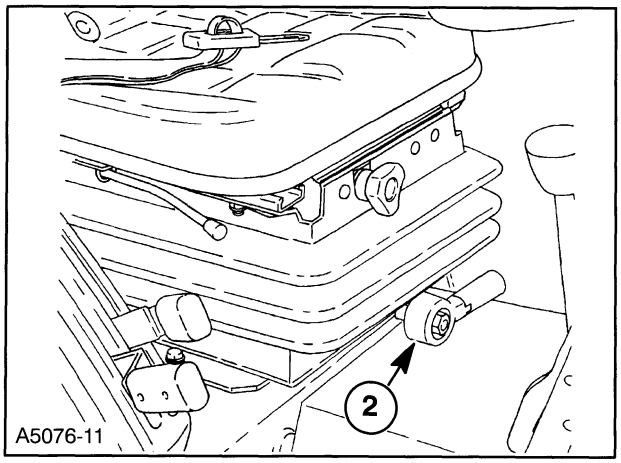


Figure 1-2

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EVERY 10 HOURS OF OPERATION

ENGINE OIL LEVEL

Before checking the oil level, stop the engine and wait for a period to allow the oil to drain back into the sump. Check the oil level with the dipstick, 1. The oil level should be between the "MIN" and "MAX" marks.

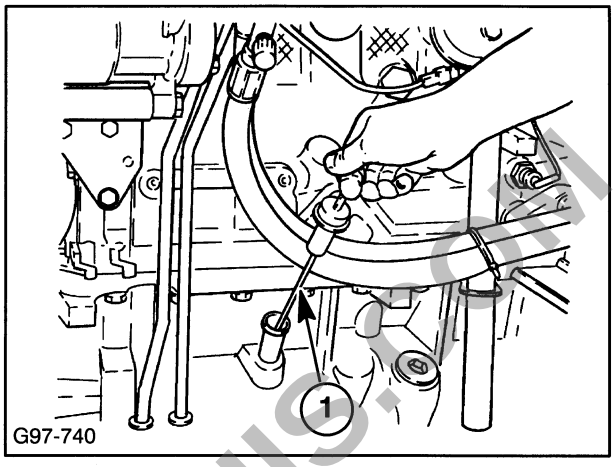


Figure 2-4

If necessary, remove the filler cap, 2, and add oil of the correct grade.

See Section 3 for correct oil grade.

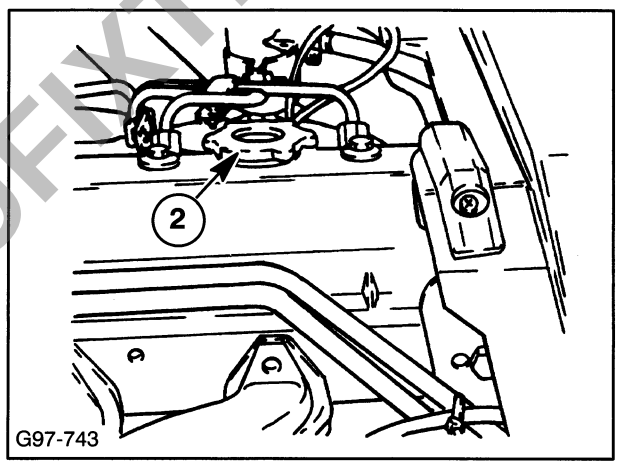


Figure 2-5

AIR CLEANER RUBBER DUST COLLECTOR

Pinch the rubber dust collector, 1, on the air cleaner to discharge any accumulated dust.

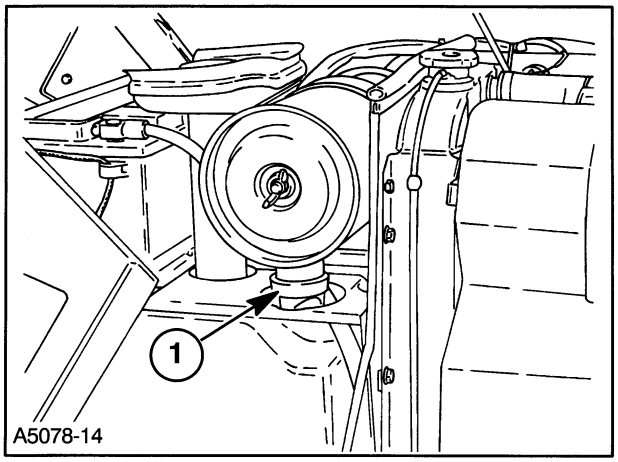


Figure 2-6

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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 when the PTO will not be in use for extended periods or when an implement is not attached. (See PTO section for more information on operation.)

ATTENTION: The PTO clutch control lever should be placed in the engaged position and the PTO selector lever should be in the neutral position. This releases the throw-out bearing and prevents premature wear to the bearing and related components.

3 - Key Start/Stop Switch

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	Engages the starter. When released key springs back to the ON position.
ACCESSORY	Parking lights, instrument lights, and rear work light switch is activated. Key is removable in this position.

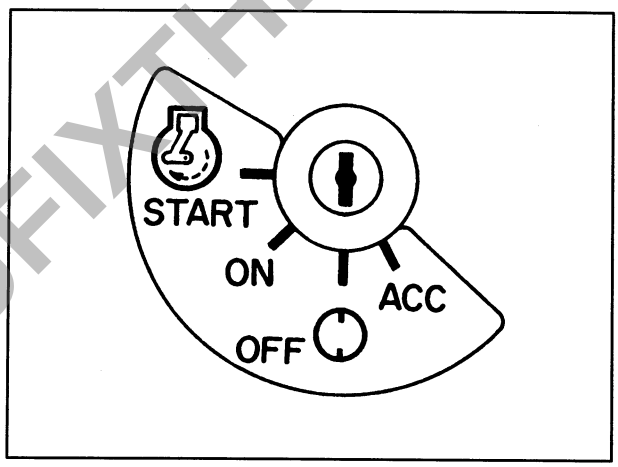


Figure 1-9

4 - Power Point

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 Models 3830 and 4330V use thermostart 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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REMOTE CONTROL VALVES

INTRODUCTION

Your tractor comes standard with two remote control valves that use hydraulic lift oil to operate remote hydraulic devices.

ATTENTION: Before operating the remote valves, read this section completely.

CONTROL VALVES

ROPS Models - Figure 1-54

Cab Models - Figure 1-55

Two valves are standard. They are activated by handles located behind the operator's seat.

Control handle, 1, controls the front control valve. This valve can be converted for use with either single- or double-acting cylinders. The valve does not have detent or float positions. Quick couplers, 2, Figure 1-57, are controlled by this valve.

Control handle, 2, controls the rear control valve. This valve is also convertible for use with either single- or double-acting cylinders. The valve has detent positions. Quick couplers, 1, Figure 1-57, are controlled by this valve.

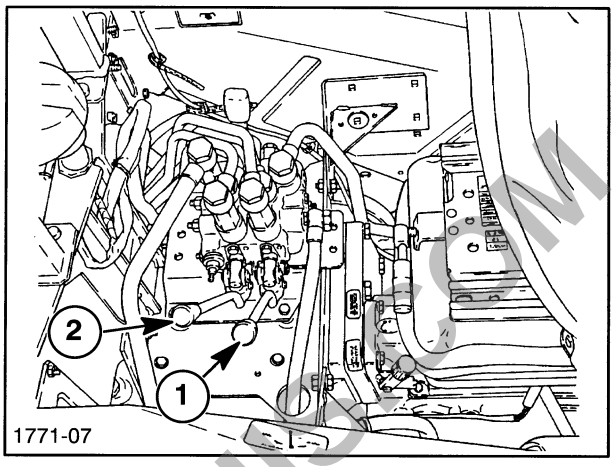


Figure 1-54

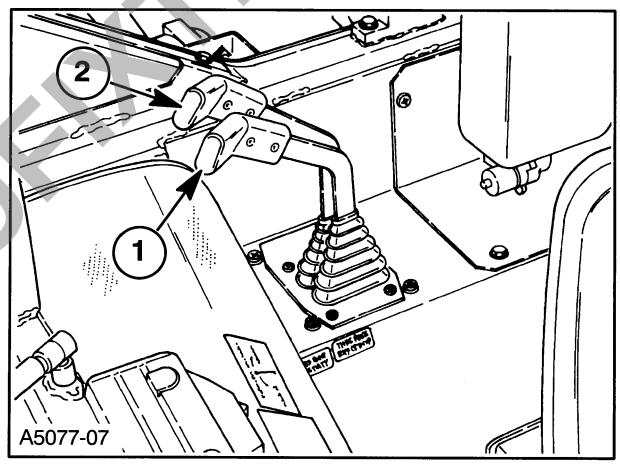


Figure 1-55

CONTROL VALVE CONVERSION

The two remote valves are convertible to work with either single- or double-acting hydraulic cylinders. To change to:

- Single-acting - back off screw, 1.
- Double-acting - fully tighten screw, 1.

Each valve may be converted individually.

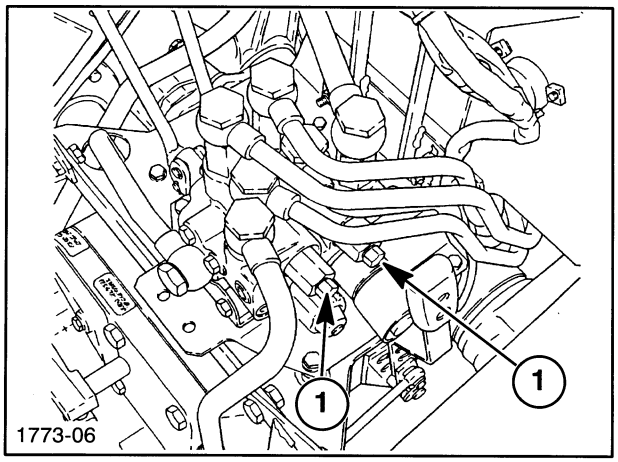


Figure 1-56

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400 HOUR SERVICE

HYDRAULIC SYSTEM FILTER

Clean the area around the hydraulic oil filter.

Remove and discard the old filter, 1. Oil the new filter seal and hand tighten the new filter until it seats against the base. Tighten an additional 3/4 turn. Add hydraulic oil as necessary. Start the tractor, operate the hydraulics and check for oil leaks.

See Section 3 for the correct quantity and grade of oil.

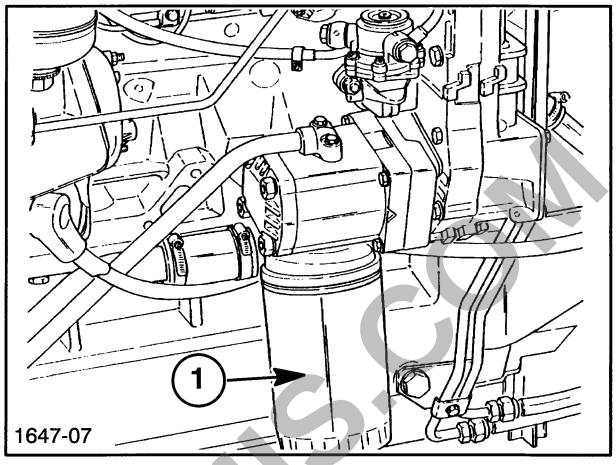


Figure 2-35

FOUR-WHEEL DRIVE KING PINS

Model 3830

Lubricate the two king pin fittings, 1. Repeat on the other side of the axle.

See Section 3 for the correct grade of lubricant.

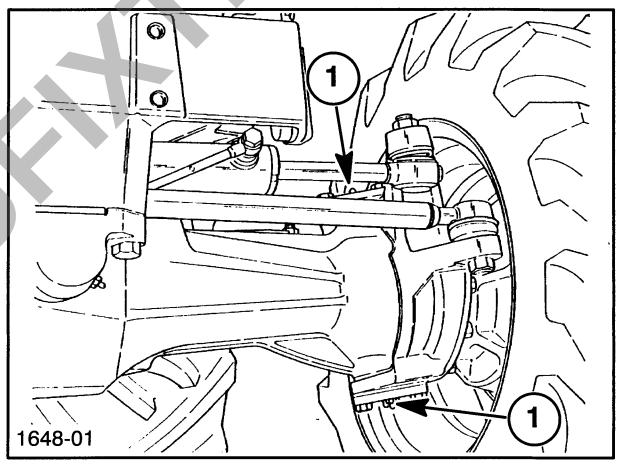


Figure 2-36

FOUR-WHEEL DRIVE HUB OIL LEVEL

Model 3830

Bring check plug, 1, horizontal. Remove the plug and check that the oil level is up to the bottom of the hole. Add oil as necessary. Replace the plug.

Repeat on the other front wheel hub.

See Section 3 for the correct grade of oil.

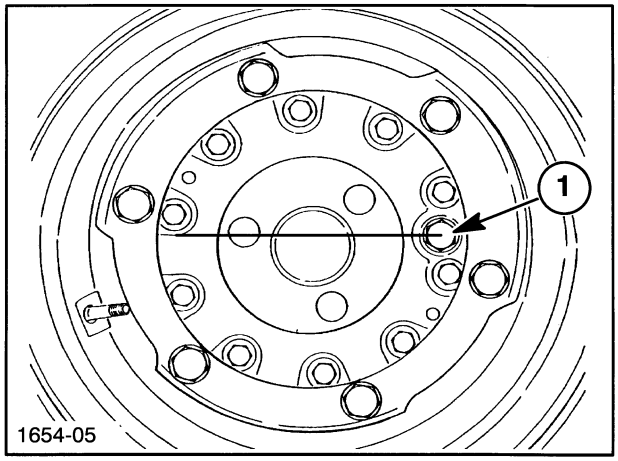


Figure 2-37

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