

CAB

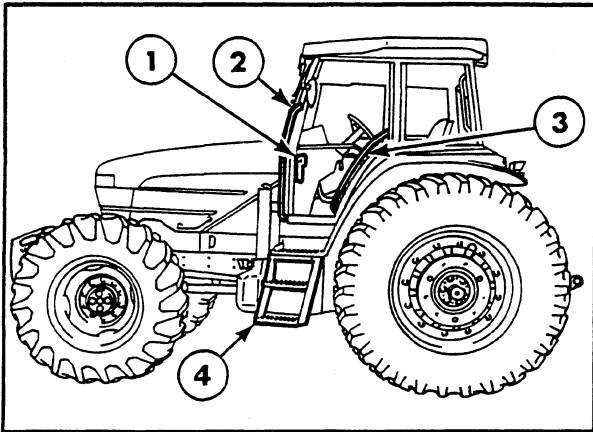


Figure 2-1

70-600-254

- 1 Door
- 2 "A" post assist rail
- 3 Door assist rail
- 4 Anti-slip steps

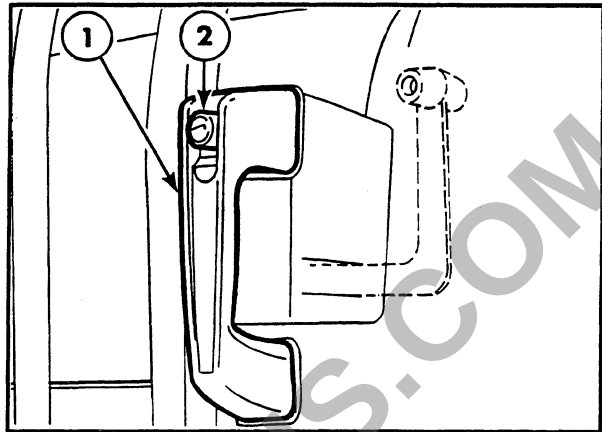


Figure 2-2

70-660-256

- 1 Door handle
- 2 Push button

INTRODUCTION

The cab has been designed for operator comfort and convenience. Inside, the walls, roof, and floor are insulated to reduce noise to a minimum.

Standard features include two doors, a fresh air heater/defroster, air-conditioning, tinted glass, interior lights, assist rails, cigar lighter, ashtray, storage box and an air suspension seat.

ENTERING THE CAB

Figure 2-1

The cab may be entered from the right or left side.

To enter the cab, face a door, 1, then open it. Grasp the "A" post assist rail, 2, and the door assist rail, 3.

Place one foot on the lowest step plate, 4. Use the assist rails to climb the steps. Enter the cab, close the door, sit in the seat, and fasten the seat belt.

To exit the cab, release the seat belt, open the door, grasp the assist rails, back out of the cab and descend the steps using the assist rails.

DOORS

Figure 2-2

Each door has an external handle, 1, with a push button, 2. The door may be locked from the outside by using the start/stop switch key. Insert the key in the slot in the push button. Rotate the key to lock or unlock the door.

To open a door from the outside, push in on the button and pull out on the handle.

SECTION 3

LUBRICATION AND MAINTENANCE

GENERAL INFORMATION

INTRODUCTION

This section gives full details of the service procedures necessary to maintain your tractor at peak efficiency. The lubrication and maintenance chart on page 3-8 provides a ready reference to these requirements. Each operation is numbered for easy reference.

In addition to the regular maintenance operations listed, check the following items every 10 hours or daily during the first 50 hours of operation:

- Wheel nuts for tightness
- Front axle hub oil levels - Four Wheel Drive (FWD) only

IMPORTANT: *Park the tractor on level ground and, where applicable, extend all cylinders before checking oil levels.*

SAFETY PRECAUTIONS

Read and observe all safety precautions listed in "Servicing the Tractor" in Section 0.

NOTE: Dispose of used filters and fluids properly.



CAUTION: DO NOT CHECK, LUBRICATE, SERVICE OR ADJUST THE TRACTOR WITH THE ENGINE RUNNING.

PREVENTING SYSTEM CONTAMINATION

To prevent contamination when changing oils, filters, etc., always clean the area around filler caps, level plugs, drain plugs, dipsticks and filters prior to removal. Before connecting remote cylinders, ensure that oil contained within them is clean, has not degenerated due to long storage and is of the correct grade.

To prevent dirt entry during greasing, wipe dirt from the grease fittings before greasing. Wipe excess grease from the fitting after greasing.

FLEXIBLE MAINTENANCE INTERVALS

The intervals listed in the lubrication and maintenance chart are guidelines to be used when operating in normal working conditions.

Adjust the intervals for environmental and working conditions. Intervals should be shortened under adverse (wet, muddy, sandy, extremely dusty) working conditions.

LUBRICATION AND MAINTENANCE CHART – PAGES 3-8 and 3-9

The chart lists the intervals when routine checks, lubrication, service and/or adjustments should be performed. Use the chart as a quick reference guide when servicing the tractor. The operations follow the chart.

FIRST 50-HOUR SERVICE

At the first 50-hour service, ensure that the following additional service operations are carried out. The items are listed in the "First 50-Hour Service" checklist at the rear of this manual.

- Change engine oil and filter
- Change fuel filter / water separator
- Clean fuel sedimenter
- Change hydraulic oil filter
- Change transmission oil filter
- Check adjustment of front wheel bearings (two wheel drive only)
- Change FWD differential oil
- Change FWD axle hub oil
- Check and adjust park brake
- Check all air intake connections
- Tighten all cooling system hose connections.
- Check torque of front end weight clamp bolts (when installed)
- Check torque of safety cab mount bolts
- Check torque of exhaust manifold bolts

NOTE: Items listed in the first 50-hour check are important. If not performed, early component failure and reduced tractor life may result.

SECTION 4

TROUBLESHOOTING

TROUBLESHOOTING AND FAULT FINDING

INTRODUCTION

The following information is intended as a guide to assist in identifying and correcting possible tractor malfunctions and fault conditions.

Information is divided into three headings:

OPERATOR PROMPTS

FAULT CODES

SYSTEM TROUBLESHOOTING

OPERATOR PROMPTS

Figure 4-1

Operator prompts, 1, indicate that an operational procedure has been performed out of sequence. The "prompts" are meant to advise the operator to take correct action.

The following flashing prompts will be displayed on the Electronic Instrument Cluster (EIC) gear shift display.

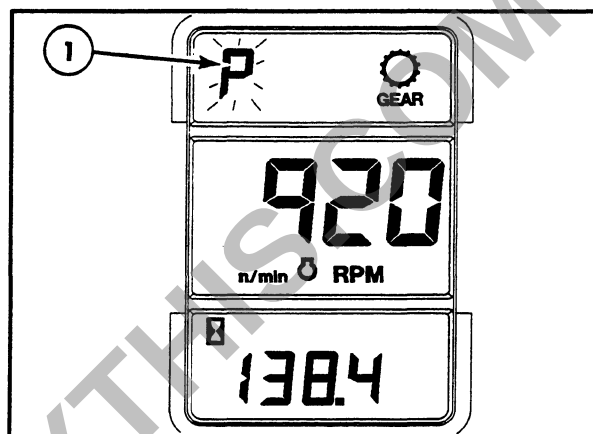


Figure 4-1

70-550-357

1 Operator prompt

PROMPT	CAUSE	CORRECTION
F	Gear shift lever in forward while starting	Return shift lever to neutral
R	Gear shift lever in reverse while starting	Return shift lever to neutral
P	Park brake applied when gear selected	Return shift lever to neutral and release park brake
d	Gear shift lever in downshift when starting	Return shift lever to neutral
U	Gear shift lever in up shift while starting	Return shift lever to neutral

SECTION 5

SPECIFICATIONS

SECTION 5
SPECIFICATIONS
MANUAL

Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

CONTENTS

OWNER ASSISTANCE	0-4
SAFETY	0-5
SECTION 1 - GENERAL INFORMATION	1-1
SECTION 2 - OPERATION	2-1
SECTION 3 - LUBRICATION AND MAINTENANCE	3-1
SECTION 4 - TROUBLESHOOTING	4-1
SECTION 5 - SPECIFICATIONS	5-1
INDEX	5-25
DELIVERY REPORT	5-29
FIRST 50-HOUR SERVICE REPORT	5-33

PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION", "WARNING", and "DANGER") followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.



CAUTION: THE WORD "CAUTION" IS USED WHERE A SAFE BEHAVIORAL PRACTICE ACCORDING TO OPERATING AND MAINTENANCE INSTRUCTIONS AND COMMON SAFETY PRACTICES WILL PROTECT THE OPERATOR AND OTHERS FROM ACCIDENT INVOLVEMENT.



WARNING: THE WORD "WARNING" DENOTES A POTENTIAL OR HIDDEN HAZARD WHICH HAS A POTENTIAL FOR SERIOUS INJURY. IT IS USED TO WARN OPERATORS AND OTHERS TO EXERCISE EVERY APPROPRIATE MEANS TO AVOID A SURPRISE INVOLVEMENT WITH MACHINERY.



DANGER: THE WORD "DANGER" DENOTES A FORBIDDEN PRACTICE IN CONNECTION WITH A SERIOUS HAZARD.

FAILURE TO FOLLOW THE "CAUTION", "WARNING", AND "DANGER" INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

MACHINE SAFETY

Additional precautionary statements ("ATTENTION" and "IMPORTANT") are followed by specific instructions. These statements are intended for machine safety.

ATTENTION: *The word "ATTENTION" is used to warn the operator of potential machine damage if a certain procedure is not followed.*

IMPORTANT: *The word "IMPORTANT" is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.*

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 Ford New Holland dealer and will be done free of charge for both parts and labor using genuine Ford 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 Ford 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 Ford 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 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 Ford New Holland, Inc. or Ford 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 Ford 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. Ford 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). Ford 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 Ford New Holland Product which is retailed or distributed by anyone other than Ford New Holland, Inc. or Ford 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 Ford 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.

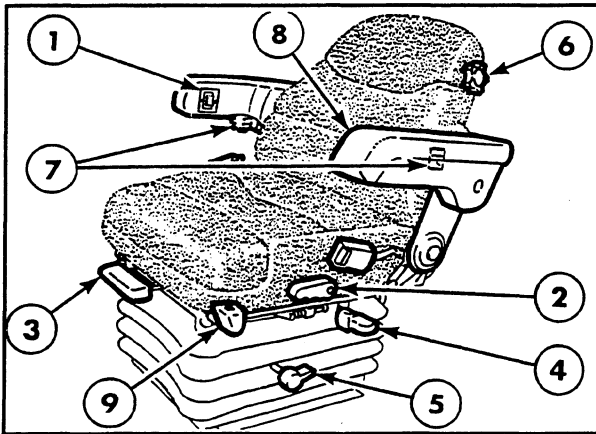


Figure 2-5

70-620-360

SEAT ADJUSTMENTS

Figure 2-5

NOTE: All adjustments should be made in the following order while sitting in the seat.

Adjust the seat using the following procedures:

1. Height/Weight Adjustment

Raise or lower the seat as follows with the key switch in the on position.

Raise - Depress the top of the switch. Release when the desired height is obtained.

Lower - Depress the bottom of the switch. Release when the desired height is achieved.

2. Backrest Angle Adjustment

Lift the control and tilt the backrest to the desired position. Release the control to lock the backrest in position.

NOTE: The backrest will tilt backward far enough to contact the rear window.

3. Fore/Aft Position Adjustment

Pull up on the handle and move the seat fore/aft through the 7" (178 mm) adjustment range to the desired position. Release the handle to lock the seat into position.

4. Fore/Aft Isolator Engagement

After selecting the desired fore/aft position, the seat can be held stationary or allowed to isolate fore/aft within the 2" (51 mm) limit of the isolator's travel.

Adjust to the desired position as follows:

Isolate - Pull up on the handle.

Lock-out - Push down on the handle while slowly moving the seat fore and aft. The handle will lower in place and the seat will not move when the lock-out position is selected.

5. Dampener Adjustment

The firmness of the ride can be adjusted as follows:

Soft - Rotate control rearward.

Firm - Rotate control handle forward.

6. Lumbar Adjustment

Adjust as follows:

Increase support - Turn knob clockwise

Decrease support - Turn knob counterclockwise

7. Armrest Angle Adjustment

Rotate the knurled wheel on each armrest to adjust to the desired angle.

8. Left Armrest Height Adjustment

The left side armrest can be positioned even with the seat cushion or in four raised positions. To adjust the height:

- Raise the armrest to the end of travel (past vertical).
- Lower the armrest until it is even with the seat cushion.
- Raise the armrest to obtain positions 2 through 4.

9. Swivel Adjustment

The seat can be adjusted to:

- Lock in one position to the left of center.
- Lock in one of four positions to the right of center (increments of 7° for a total of 28° rotation).
- Provide a free swing position without locking in any position.

To adjust the swing:

- Move the swivel control handle partially to the rear.
- Swing the seat to the desired position.
- Release the handle to lock the seat into position.

NOTE: Moving the control handle fully rearward will provide the free swing position.

Up Shift

Up shift is activated by depressing then releasing the front of the switch, 1, Figure 2-85. The transmission will automatically up shift the preprogrammed number of gears. The EIC dash Up Shift lamp, 1, Figure 2-86, will illuminate and the new gear ratio will be displayed as shifts are completed.

To return to the original gear ratio, depress then release the rear of the switch. The Up Shift lamp will go out and the tractor will down shift to the original gear.

Down Shift

Down shift is activated by depressing then releasing the rear of the switch, 1, Figure 2-85. The transmission will automatically down shift the predetermined number of gears and the EIC Down Shift lamp, 2, Figure 2-86, will illuminate and the new gear ratio will be displayed as shifts are completed.

To return to the original gear ratio, depress then release the front of the switch. The Down Shift lamp will go out and the transmission will up shift to the original gear.

NOTE: The programmable up shift, down shift feature only functions in forward gears.

The programmed change in gear ratios will occur whenever the front or the rear of the rocker switch is depressed.

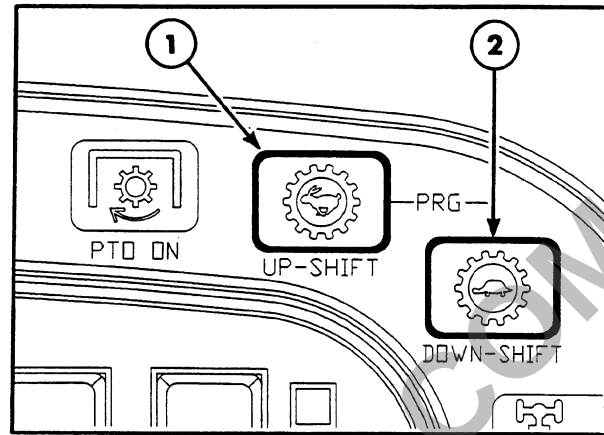


Figure 2-86

70-550-301

- 1 Up shift lamp
- 2 Down shift lamp

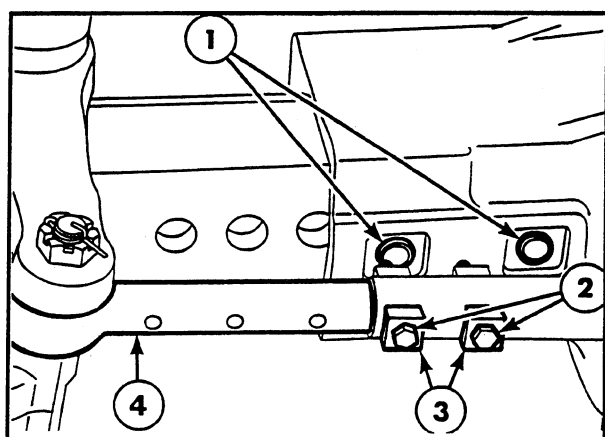


Figure 2-157

70-240-116

- 1 Axle extension bolts
- 2 Tie rod clamp bolts
- 3 Clamps
- 4 Tie rod end

2WD AXLE ADJUSTMENT

Figure 2-157

Use the following procedure to adjust the front axle:

1. Position the front wheels straight ahead.
2. Apply the park brake and place blocks at the front and rear of the rear wheels.
3. Jack up the front axle and place jack stands under the center section of the axle.
4. Remove the axle extension bolts, 1, from both axle extensions.
5. Remove the tie rod clamp bolts, 2, and clamps, 3, from both of the tie rods.
6. Slide the axle extensions to the desired position.

NOTE: Both axle extensions must be extended so the same number of holes are exposed on each extension.

7. Install the axle extension bolts, 1, and torque to 425 ft. lbs. (576 N·m).
8. Position each tie rod end, 4, so the same number of holes are exposed as are exposed in the axle extension.
9. Install the tie rod clamps, bolts and nuts. Torque the nuts to 50 ft. lbs. (68 N·m).

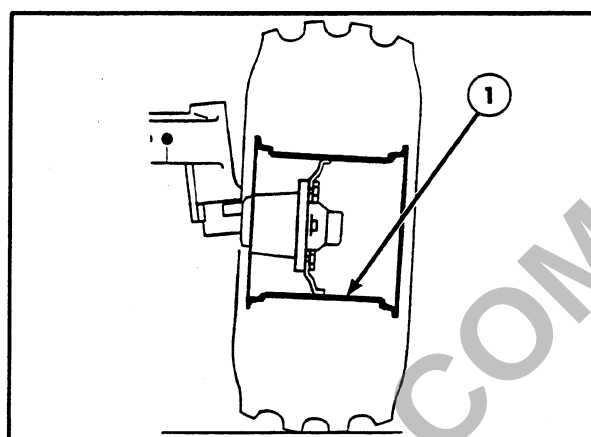


Figure 2-158

70-250-248

- 1 Offset – out

10. Check and, if required, adjust toe-in.

FRONT WHEEL POSITION (2WD)

Figure 2-158

Use the following procedure to change track adjustment by reversing the front wheel offset, 1.

1. Position the front wheels straight ahead.
2. Apply the park brake and block both the front and rear of the rear wheels.
3. Jack up the front axle and place on jack stands.
4. Remove the wheels.
5. Reverse the wheel offset and reinstall.
6. Torque the wheel bolts in a diagonal pattern to a torque of 160 ft. lbs. (217 N·m).

NOTE: Torque wheel bolts as specified. Operate for 200 yards (200 m) and retorquing. Repeat torque check after one hour, then at 10 hours or daily intervals until bolt torque remains constant. Check torque at 50-hour intervals thereafter.

EVERY 50 HOURS

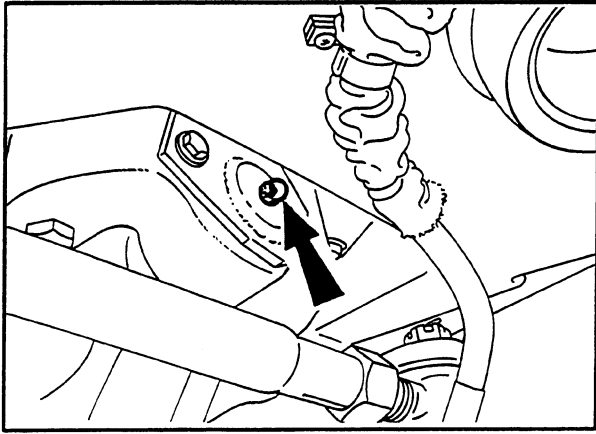


Figure 3-29

70-240-156

Two Wheel Drive (2WD) Front Axle Grease Fittings

Operations 11 through 16 cover 2WD front axle lubrication.

Lubricate by supplying grease through the fittings.

NOTE: Lubricate at 10-hour intervals when operating in extremely wet, muddy or very dusty conditions.

GREASE SPECIFICATION: 86050059

OPERATION 11

LUBRICATE 2WD AXLE PIVOT PIN

Figure 3-29

IMPORTANT: Lubricate until grease appears at each end of pivot pin.

OPERATION 12

LUBRICATE 2WD AXLE BELLCRANK

Figure 3-30

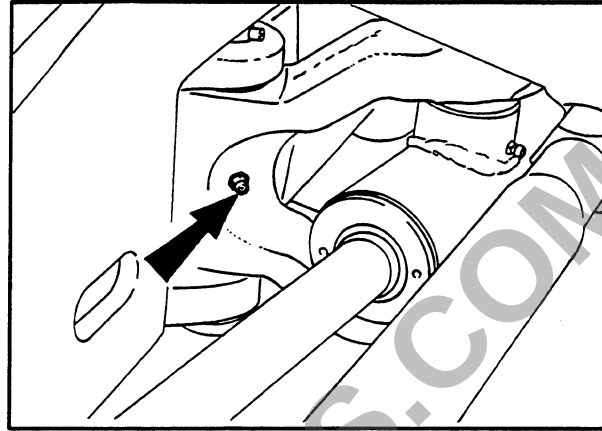


Figure 3-30

70-240-157

OPERATION 13

LUBRICATE 2WD AXLE STEERING CYLINDER

Figure 3-31

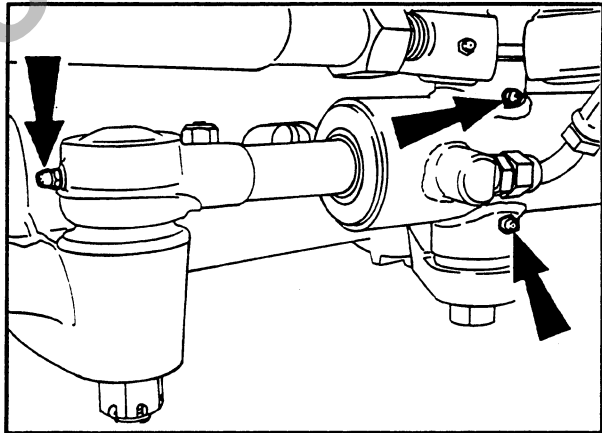


Figure 3-31

70-240-158

GENERAL MAINTENANCE

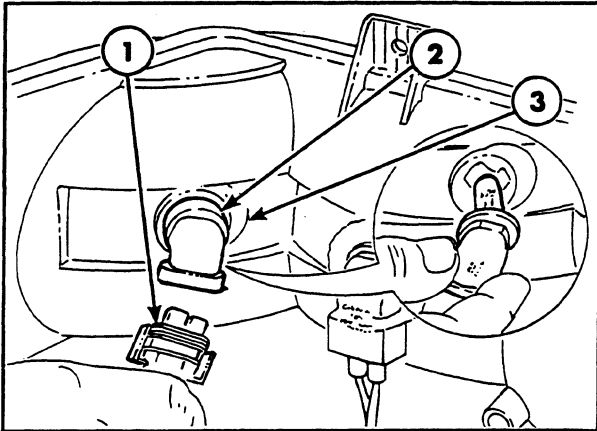


Figure 3-113

70-540-225

- 1 Wire harness connector
- 2 Bulb assembly
- 3 Housing

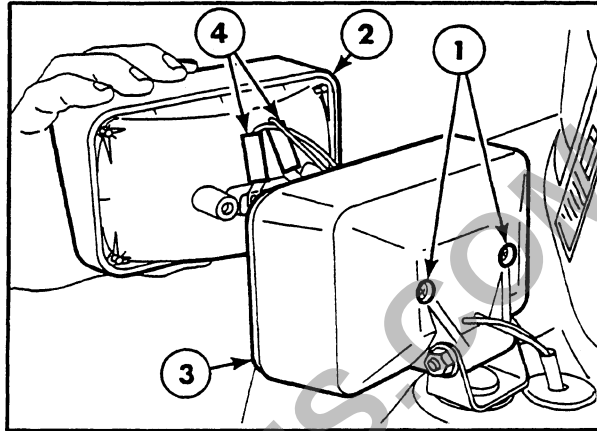


Figure 3-114

70-540-222

- 1 Retaining screws
- 2 Beam unit
- 3 Case
- 4 Connectors

OPERATION 66

REPLACE HEADLIGHT ASSEMBLY BULBS

Figure 3-113

IMPORTANT: All headlights have halogen bulbs. Never touch a halogen bulb with your fingers. Natural oil in the skin may cause the bulb to fail prematurely. Always use a clean cloth or tissue when handling halogen bulbs.

To replace a bulb:

1. Disconnect the wire harness connector, 1, from the bulb assembly, 2.
2. Rotate the bulb assembly, 2, counterclockwise until it disengages from the housing, 3.
3. Remove the bulb assembly.
4. Install the new bulb assembly in the housing.

5. Rotate clockwise until the bulb assembly locks in the housing.
6. Connect the wire harness connector.
7. If more than one bulb assembly was replaced, check operation of lights with light switch to ensure harness was reconnected correctly.

OPERATION 67

REPLACE WORK SEALED BEAM UNITS

Figure 3-114

1. Remove the retaining screws, 1.
2. Pull the beam unit, 2, from the case, 3.
3. Disconnect the connectors, 4.
4. Connect the new beam unit to the connectors.
5. Install the new beam unit into the case.
6. Install the retaining screws.

PREVIEW ONLY

You're viewing 12 of 284 pages

The full manual includes:

- All 284 pages, complete
 - Searchable PDF (find any keyword)
 - No watermarks
 - Instant download
 - Print-ready quality
-

GET FULL MANUAL NOW

New Holland 8670, 8770, 8870, 8970 Operator Manual



Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual