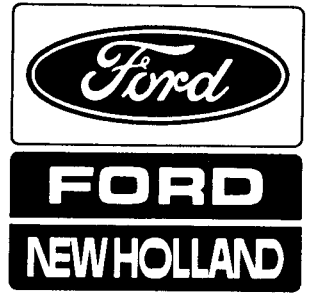


# VERSATILE

## Operator's Manual

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Tractors  
846, 876, 936, 946, 976



42084651

Reprinted

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## TO THE OWNER:

This manual contains information concerning the operation, adjustment, and maintenance of Ford/Versatile 4WD tractors. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the performance and long service built into this tractor. **HAVE ALL OPERATORS READ THIS MANUAL CAREFULLY AND KEEP IT AVAILABLE FOR READY REFERENCE.**

The tractor was designed to pull agricultural equipment in agricultural applications. Using at field speeds of 4.5 MPH (7.2 KPH) or greater and proper ballasting to provide equal traction to front and rear axles under load will improve tractor performance and life.

Your Ford New Holland dealer will instruct you in the general operation of your tractor. Your dealer's staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your tractor.

For engine maintenance not covered in this manual, follow the instructions provided in the Cummins manual. Before putting the tractor in service, become familiar with the procedures outlined in both manuals.



**CAUTION: THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER PERSONAL SAFETY IS INVOLVED. TAKE TIME TO READ AND FOLLOW THE INSTRUCTIONS. BE CAREFUL!**

**CAUTION: PICTURES IN THIS MANUAL MAY SHOW PROTECTIVE SHIELDING OPEN OR REMOVED TO BETTER ILLUSTRATE A PARTICULAR FEATURE OR ADJUSTMENT.**

**BE CERTAIN, HOWEVER, TO CLOSE OR REPLACE ALL SHIELDING BEFORE OPERATING THE MACHINE.**

## IMPROVEMENTS

Ford New Holland, Inc. is continually striving to improve its products. We reserve the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

## WARRANTY AND LIMITATION OF LIABILITY - AGRICULTURAL PRODUCTS

### COVERAGE PROVIDED

Ford New Holland, Inc. or Ford New Holland Canada Ltd., hereinafter called "Company" warrants to the retail purchaser of each new Product (as listed below) that the Selling Dealer will repair or replace any part thereof found to be defective in materials or workmanship within the following periods. This warranty is for the benefit of the original or subsequent purchaser when purchased from an authorized Ford New Holland dealer.

### BASIC WARRANTY

Product	Warranty Period
*Tractor, Articulated 4-Wheel Drive Models (except Bidirectional™)	24 Mos./2000 Hrs.
Tractor, 8530 thru 8830 Models	36 Mos./3000 Hrs.
Tractor, All TW Models	36 Mos./2500 Hrs.
Tractor, 1000 thru 8000 (except as noted) and Bidirectional Models	12 Months
*Harvesting Equipment, Attachments and Implements	12 Months
Replacement Parts	90 days or to end of Basic Warranty
**Extended Power Train Warranty for 1000 through 8000, and Bidirectional Models	24 Mos./2000 Hrs.
**Extended Engine Warranty for Self-Propelled Harvesting Products	24 Mos./2000 Hrs.

\*Cummins and Caterpillar engines are warranted by their respective manufacturer.

\*\*The components covered by extended warranty consists of the following:

ENGINE - The rocker arm cover, cylinder head, engine block, crankcase pan and timing gear cover of the engine, and the parts fully enclosed within these units.

TRANSMISSION AND REAR AXLE (Tractors Only) - The clutch housing, transmission case, dual power housing, differential housing, final drive housings, transfer case, front wheel drive housing, and parts fully enclosed within these housings, including the drive axles, but excluding the hydraulic lift cover and its components.

### LIMITATIONS, INCLUDING DISCLAIMER OF IMPLIED WARRANTIES AND CONSEQUENTIAL DAMAGES

This warranty gives you specific legal rights and you may also have other rights which vary, depending on state or provincial laws.

Ford New Holland, Inc. or Ford New Holland Canada Ltd. does not authorize any person or dealer to create for it any other obligation or liability in connection with these products. TO THE EXTENT ALLOWED BY LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS APPLICABLE TO THIS PRODUCT IS LIMITED TO THE STATED DURATION OF THIS WRITTEN WARRANTY. NEITHER COMPANY NOR THE SELLING DEALER SHALL BE LIABLE FOR LOSS OF THE USE OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES.

Some states and provinces do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

The remedy of repair or replacement of a defective part during the warranty period herein specified shall be the purchaser's exclusive remedy.

### 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.

### EXTENDED SERVICE PLAN (ESP)

When offered by the Company, the option to purchase an Extended Service Plan has been explained and:

- ☐ I accept and have signed the completed registration form
- ☐ I decline the Extended Service Plan
- ☐ I will consider later (within 180 days)

### PROTECTIVE EQUIPMENT

Rollover protective structure (ROPS) and seat belts are provided as standard equipment on all Ford New Holland agricultural tractors and industrial tractors and we strongly recommend their use. Customers who elect to remove or not use this protection do so at their own risk.

- I acknowledge the existence of OSHA regulations pertaining to ROPS. \_\_\_\_\_
- A PTO master shield has been furnished with delivery of the machine. \_\_\_\_\_
- The correct Operator's Manual has been furnished. \_\_\_\_\_
- Safety precautions were explained to me by the Selling Dealer. \_\_\_\_\_

### ACKNOWLEDGEMENT

The blank spaces under "Protective Equipment" have been filled in and are correct, and I acknowledge that I have read and I accept this Warranty and Limitation of Liability.

Purchaser \_\_\_\_\_  
Signature \_\_\_\_\_

Date \_\_\_\_\_

Model \_\_\_\_\_

Serial No. \_\_\_\_\_

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# FORD 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.

## 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 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 customer 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 travel time.
- (vii) With the exception of special Owner Protection Programs, 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 dealer. This warranty shall NOT apply to any Product which is normally operated outside of the United States, and/or Canada.

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# **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.*

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# SAFETY

National Safety Council statistics indicate many people die or suffer serious injury each year as a result of farm accidents.

Don't become a statistic or victim.

Carefully review the procedures given in this manual with all operators ANNUALLY. It is important that all operators be familiar with, AND FOLLOW, safety precautions.

Operating instructions must be given to everyone using the tractor before operation and at least once yearly thereafter in compliance with OSHA Regulation 1928.57 (United States).

## GENERAL SAFETY

1. Never let an unqualified or untrained driver operate the tractor.
2. Keep a fire extinguisher with ABC rating in the cab. Maintain it and be familiar with its use.
3. Never carry passengers.
4. Never operate the tractor in a closed building. Provide adequate ventilation. Engine exhaust fumes are poisonous and can kill.
5. Always keep sleeves, jackets or other clothing relatively tight and belted. Loose clothing may catch in moving parts and result in personal injury or death.
6. Provide a first-aid kit in the cab for use in case of accident.
7. Never jump from the tractor. There is a danger of catching clothing on protruding parts.
8. Use steps and handholds when mounting and dismounting the tractor or for servicing components too high to reach from the ground.
9. Fasten your seat belt before starting the engine.
10. Safety devices are intended to protect operators from injury or death. Under no circumstances should they be disabled or removed.
11. To provide a better view, certain photos and illustrations show a safety shield removed. It is important that a machine never be operated in this way. Keep all shields in place.

## OPERATING SAFETY

1. Always operate the tractor controls sitting in the operator's seat.
2. Lock the seat in position and buckle your seat belt before operating the tractor.
3. Always start the tractor with the transmission in neutral and the other operating controls either in the OFF or neutral position.
4. Always wait until all warning lights and the audio alarm go out before putting the tractor in gear.
5. Never oil, grease or adjust the tractor while it is running. Do not leave the engine running while the tractor or drawn equipment is being adjusted, repaired or cleaned.
6. Be sure the parkbrake is set when the tractor is stopped. The tractor can freewheel even when in gear.
7. Avoid abrupt turns, starts or stops, especially at high speeds.
8. Keep all safety shields in place when operating the tractor.
9. Do not operate the tractor when you are tired, sick or impaired.
10. Never operate the tractor in confined areas. Visibility next to the tractor is reduced. Injury to bystanders or damage to the tractor or equipment may result.
11. Do not start the engine by shorting across the starter terminals. The engine can start and the machine can move when the starting safety switch is bypassed.

## SAFE OPERATION IN ROUGH TERRAIN

1. Drive the tractor slowly on hillsides and curves to eliminate the danger of tipping. Avoid slopes which are too steep for safe operation. Avoid sharp uphill turns.
2. Always drive slowly over rough ground. Drive at speeds slow enough to insure your safety.
3. When driving out of a ditch, gully or up a steep hillside, engage the clutch slowly. Avoid sharp uphill turns.
4. When descending steep grades, select a sufficiently low gear to maintain control with minimum braking.

5. Use caution when driving near the edge of a ditch or gully. It may cave in, causing the tractor to roll over.
6. Be especially alert when operating at row ends, road slopes and around obstructions.
7. Use extreme caution when operating the tractor on single wheels. The danger of tipping increases. Do not travel at high speeds.
8. Radial tires in 18.4 x 38, 18.4 x 42, 20.8 x 38 and 20.8 x 42 sizes must be used as duals only. Do not operate as single wheels.

### **MAINTENANCE SAFETY**

1. Escaping hydraulic oil under pressure can penetrate the skin causing personal injury. Wear gloves and goggles and use a piece of cardboard or wood as a backstop for spurting fluid when searching for hydraulic leaks.
2. Be sure all connections are tight and lines and hoses are undamaged. Before disconnecting hydraulic lines, relieve all pressure. Do not overfill the tank.
3. Add coolant to the cooling system only when the engine is stopped and cool. Turn the surge tank cap slightly to its first stop to relieve pressure before removing.
4. Never refuel the tractor when the engine is hot or running. Do not smoke while filling the fuel tank or servicing the fuel system. Use precautions in handling any type of tractor fuel. Vaporized diesel fuel is highly flammable. Do not overfill.
5. Ground fuel storage tanks to prevent static buildup.
6. Do not smoke and avoid open flames if servicing any batteries.
7. Starting fluid is highly flammable. Do not use near fire, sparks, open flames or when engine is running.
8. Remove mud, crop residue, chains and tools from steps and operator's platform. They may interfere with pedal operation or entry/exit from the tractor.
9. Turn the lever at the hydraulic couplers to OFF to prevent flow to implements when servicing.
10. Be sure the turbocharger is cool before servicing and keep flammable material away from the turbocharger.
11. Never operate with a damaged tire. The tire may explode.

### **IMPLEMENT SAFETY**

1. Always hitch loads to the drawbar or hitch points.
2. When hitching drawn equipment to the drawbar, only allow an assistant between the tractor and implement if the tractor is in neutral and the brakes are engaged.
3. When the implement is not in use or being disconnected from the tractor, always relieve pressure from the hydraulic circuits and turn OFF lever couplers. Install safety locks or pins to prevent implement movement.
4. Do not leave implements with the hydraulic cylinders fully extended or retracted where the heat from the sun can cause the hydraulic fluid to expand. Hydraulic pressure can rupture the hoses, releasing high pressure oil causing personal injury.
5. Be careful when turning with an implement. Lift it from the ground if possible during turns. Side thrust caused by the implement could damage the tire and implement.
6. Use transport locks, lower the implement to the ground and securely block the frame before servicing the implement. Relieve pressure from the hydraulic system and shut off the tractor.

### **POWER TAKE-OFF (PTO) SAFETY**

1. Never start the tractor with the PTO engaged.
2. Be sure the articulation lock is engaged, the parkbrake is set and the gearshift lever is in neutral when using the PTO in stationary applications. Do not leave the tractor unattended. If you must leave the area for any reason, stop the tractor and remove the key.
3. Take special care in hook-up of implements to PTO.
4. Be sure all guards are in place while operating the PTO.



- 
5. Stop and lockout tractor before disconnecting or servicing the PTO drivelines.

## **SAFE HIGHWAY OPERATION**

1. Before transporting the tractor and implement on public roadways, check with authorities for local regulations.
2. Equip towed implements with slow-moving vehicle (SMV) signs when travelling on public roads.
3. Install additional lights on implement rear to safeguard against rear end collisions. Daybreak and dusk are particularly dangerous. VERSATILE tractors have seven-pin trailer connectors to facilitate installation of extra lighting.
4. Be aware of the transport width of towed implements. Install additional lights to the left side of wide implements to alert passing traffic. Keep clear of the approaching lane.
5. Use hazard warning flashers as required by law when transporting or driving tractor on public roads.

6. Keep to the right and yield the right-of-way, especially when pulling implements. Pull off the road and stop to allow motorists to pass. Drive on the road shoulder, if permitted by law.

7. Use extreme caution when pulling heavy loads at road speeds. Avoid hard application of the tractor brakes at high speed. Equip implement trailers with brakes as required by law.
8. Be sure the headlights are aligned so they will not blind the operators of oncoming vehicles.

## **CHEMICAL SAFETY**

1. The cab air filters are not designed to filter harmful chemicals. When using agricultural chemicals, follow the manufacturer's instructions carefully.
2. Do not carry harmful chemicals in the cab. Chemicals may rupture the container and the fumes may poison the operator.
3. Wear approved respiratory protection when working near toxic chemicals. Maintain equipment regularly.

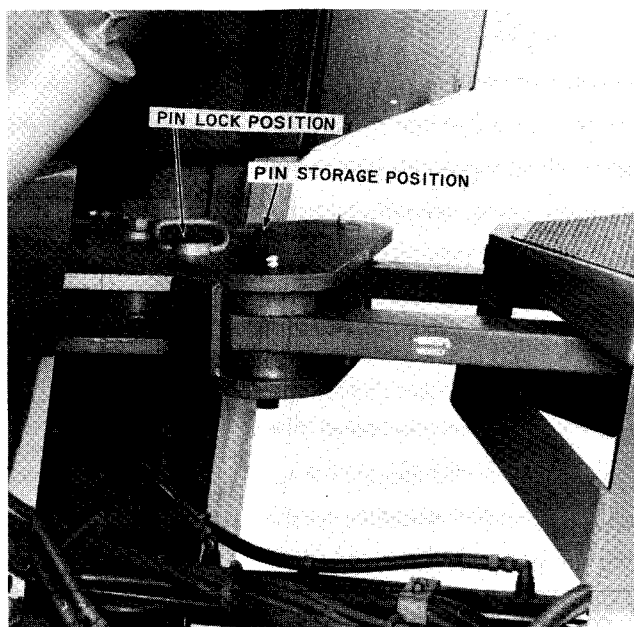


FIGURE 0-1

## ARTICULATION LOCK

### Figure 0-1

1. Use the articulation lock during stationery applications, servicing, jacking or overhaul operations. Do not use when the tractor is operating.
2. Before engaging the lock, drive the tractor to a level surface, put the steering straight, engage the parkbrake, put the gearshift in neutral and stop the engine. Remove the pin from the storage position on the swing frame right and put the pin through the hole on the swing frame left. It may be necessary to start the engine and articulate the frame slightly to be sure the lockpin is engaged.
3. Do not allow personnel to enter the articulation area with the engine running, unless the articulation lock and parkbrake are engaged.

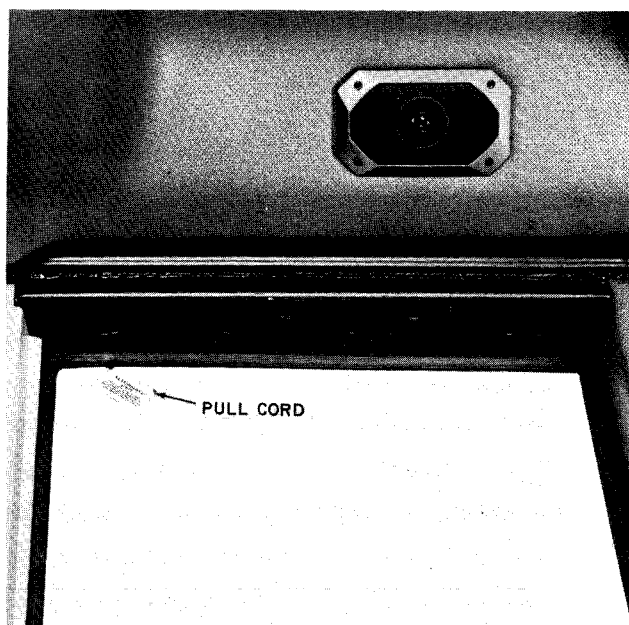


FIGURE 0-2

## ALTERNATE EXITS

The cab has two exits which may be used in an emergency, the door and side window.

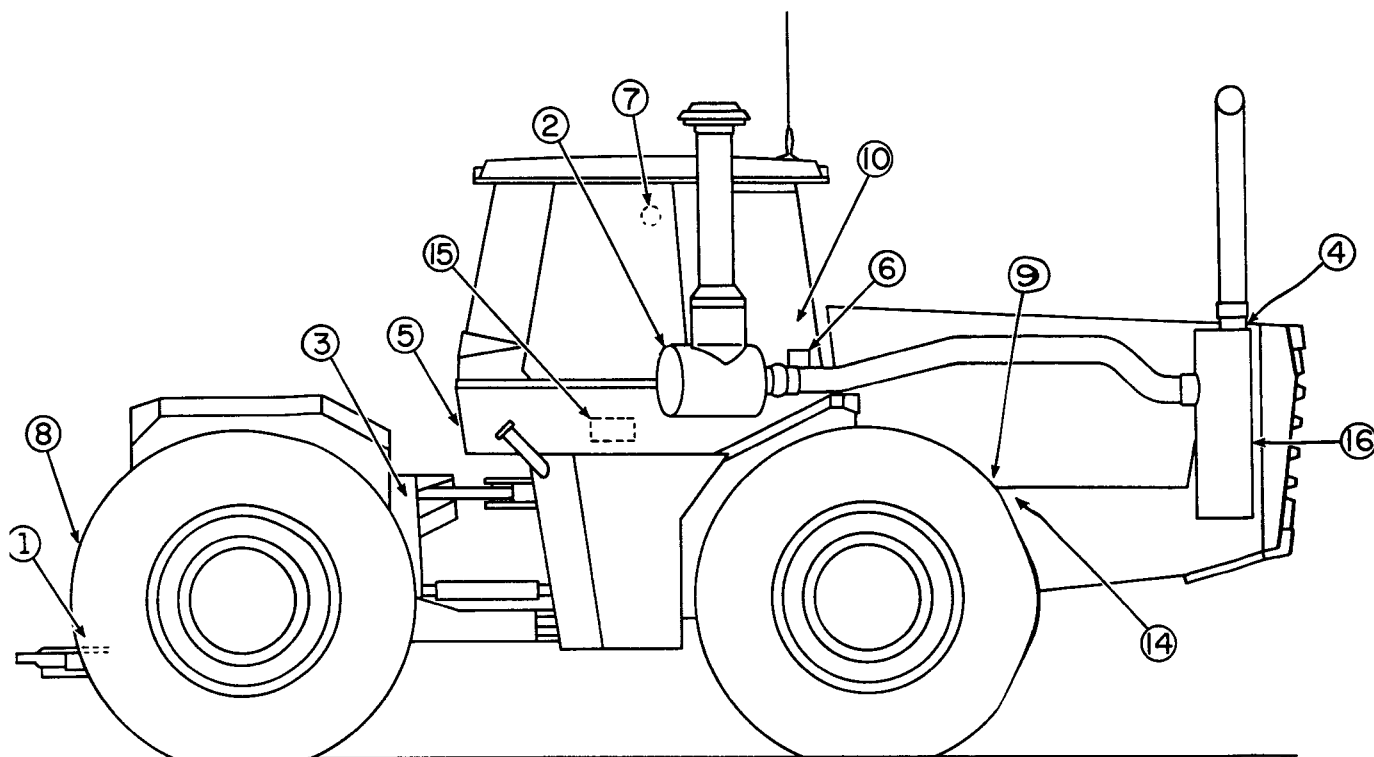
### Side Window

#### Figure 0-2

Open the side window by completely pulling the cord from the side window moulding and pushing the window from the frame. Start pushing the window in an upper corner and work around the edges until the window comes free.

## SAFETY DECALS

1. Keep decals clean. Remove dirt with a wet cloth when necessary.
2. Replace safety decals if destroyed, missing, painted over or unreadable.
3. If a section of the tractor is replaced that carries a safety decal, apply a new decal immediately.
4. New decals are available from your Ford New Holland dealer.

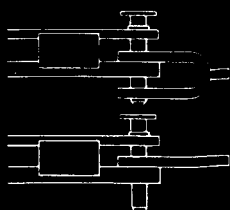


1



## CAUTION

- PULL ONLY FROM DRAWBAR OR 3 POINT HITCH
- USE A SAFETY CHAIN ON EQUIPMENT TOWED BY SINGLE POINT ATTACHMENT
- ATTACH IMPLEMENTS PROPERLY



ATTACHING CLEVIS  
TYPE TONGUES

ATTACHING SINGLE  
TYPE TONGUES

V95459

2



## CAUTION

DISENGAGE P.T.O. CLUTCH AND STOP  
ENGINE BEFORE LEAVING OPERATOR'S  
STATION.

NEVER SERVICE, ADJUST CONNECT OR  
UNCLOG P.T.O. DRIVEN EQUIPMENT  
WHILE ENGINE IS RUNNING.

V96091

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