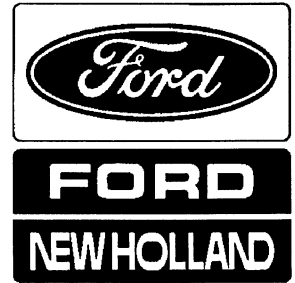


VERSATILE

Operator's Manual



Tractor
936, 976

42093620

Reprinted

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Serial Number Location

SERIAL NUMBER LOCATION

IMPORTANT

To obtain fastest service when ordering parts.
Remember to:

1. Order part by the correct number.
2. State tractor model and year.
3. Include tractor, engine, transmission and frame serial numbers.

TRACTOR

Serial number plate is stamped on front doorpost lower half.

SERIAL

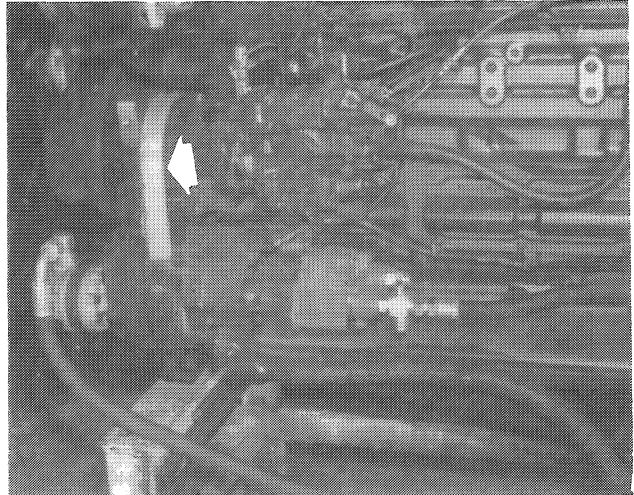


Tractor Serial Number Plate

ENGINE

Serial number plate is located on engine left side ahead of fuel injection pump.

SERIAL

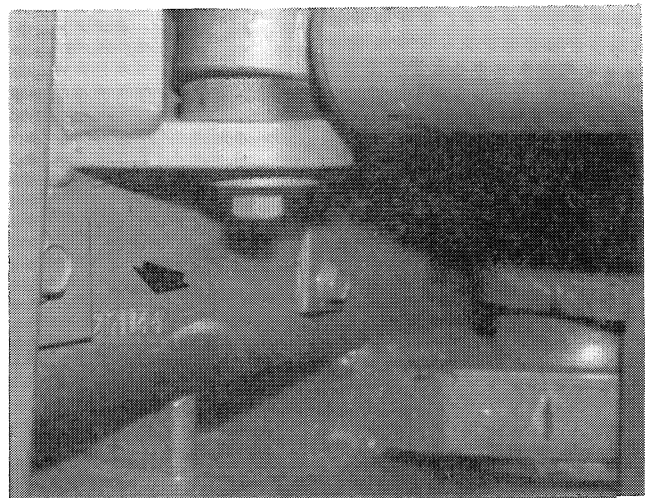


Engine Serial Number Location

FRAME

Serial number is stamped on the rear, bottom left-hand corner of the front frame.

SERIAL



Frame Stamp Location

TRANSMISSIONS

12 Speed Mechanical

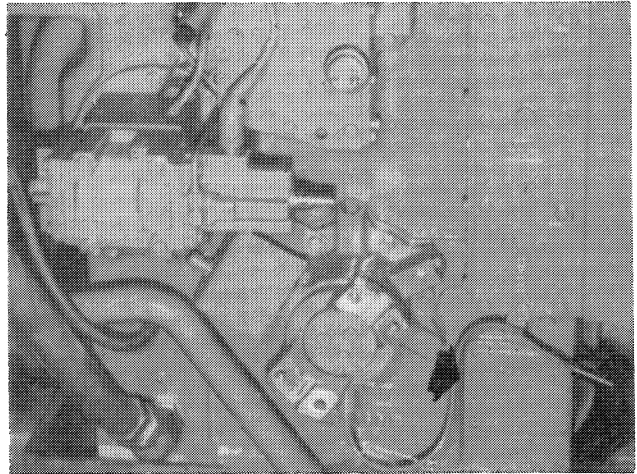
Serial number is stamped on transmission front above the reverse idler assembly.



12-Speed Mechanical Transmission

Powershift

Serial number plate is located on the right rear of the transmission housing.



Powershift Transmission

SERIAL

Introduction

We are pleased you have chosen an 936/976 VERSATILE Four-Wheel Drive Tractor for your farming operation. It has evolved through the ideas and suggestions submitted to us by customers such as yourself.

We ask that you study this manual and adopt the preventive maintenance program outlined in it. The suggested schedule has been designed to meet most operating conditions although it may be necessary to adjust your maintenance program to suit your specific operating conditions.

We ask that for engine maintenance not covered by this manual, you follow the instructions given in the Cummins Manual, supplied with the tractor. Before putting the tractor in service, become familiar with all the procedures described in both manuals.

Your dealer is factory trained to provide genuine parts and professional repair service. Consult him for all your service needs.





Watch for this symbol. It identifies potential hazards to health or personal safety. It points out safety precautions. It means: **ATTENTION – Be Alert.** Your safety is involved.

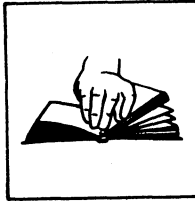


1 Safety

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.

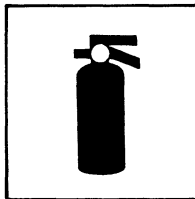
Carefully review the procedures given in this manual with all operators **ANNUALLY**. It is important that all operators be familiar with, **AND FOLLOW**, safety precautions.



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).

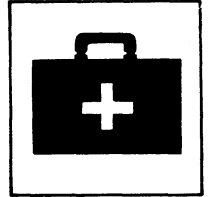
GENERAL SAFETY

1. Never let an unqualified or untrained driver operate tractor.
2. Keep a fire extinguisher, with ABC rating in the cab. Maintain it and be familiar with its use.

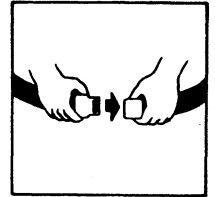


3. Never carry passengers.
4. Never operate tractor in a closed building. Provide adequate ventilation. Engine exhaust fumes are poisonous and can kill.
5. Always keep sleeves, jackets or other clothing relatively tight and belted. Loose clothing may catch in moving parts and result in personal injury or death.

6. Provide a first-aid kit in the cab for use in case of accident.



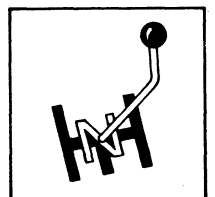
7. Never jump from tractor. There is a danger of catching clothing on protruding parts.
8. Use steps and handholds when mounting and dismounting tractor or for servicing components too high to reach from the ground.
9. Fasten seat belt before starting engine.



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

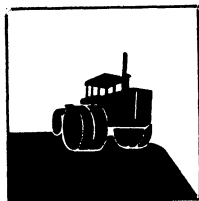
1. Always operate tractor controls sitting in the operator's seat.
2. Lock seat in position and buckle seat belt before operating tractor.
3. Always start tractor with transmission in neutral and other operating controls either in the OFF or neutral position.



4. Always wait until all warning lights and audio alarm go out before putting tractor in gear.
 5. Never oil, grease or adjust tractor while it is running. Do not leave engine running while tractor or drawn equipment is being adjusted, repaired or cleaned.
 6. Ensure parkbrake is set when tractor is stopped. 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 tractor.
 9. Do not operate tractor when you are tired, sick or impaired.
 10. Never operate tractor in confined areas. Visability next to tractor is reduced. Injury to bystanders or damage to tractor or equipment may result.
 11. Do not start engine by shorting across starter terminals. Engine can start and machine can move when starting safety switch is bypassed.
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.

SAFE OPERATION IN ROUGH TERRAIN

1. Drive 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 ensure 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.



- ## 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. Ensure all connections are tight and lines and hoses are undamaged. Before disconnecting hydraulic lines, relieve all pressure. Do not overfill tank.
 3. Add coolant to the cooling system only when engine is stopped and cool. Turn surge tank cap slightly to its first stop to relieve pressure before removing.
 4. Never refuel tractor when engine is hot or running. Do not smoke while filling fuel tank or servicing fuel system. Use precautions in handling any type of tractor fuel. Vapourized 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.



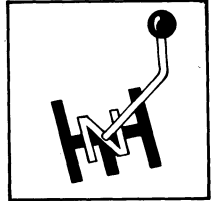
7. Starting fluid is highly flammable. Do not use near fire, sparks, open flames or when engine is running.
8. Remove mud, crop residue, chains and tools from steps and operator's platform. They may interfere with pedal operation or entry/exit from tractor.
9. Turn lever at hydraulic couplers to OFF to prevent flow to implements when servicing.
10. Ensure turbocharger is cool before servicing and keep flammable material away from turbocharger.
11. Never operate with a damaged tire. Tire may explode.

IMPLEMENT SAFETY

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

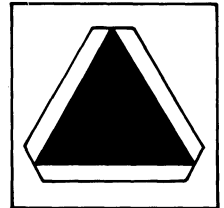
POWER TAKE-OFF (PTO) SAFETY

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



SAFE HIGHWAY OPERATION

1. Before transporting 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 transport width of towed implements. Install additional lights to 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 right-of-way especially when pulling implements. Pull off road and stop to allow motorists to



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

CHEMICAL SAFETY

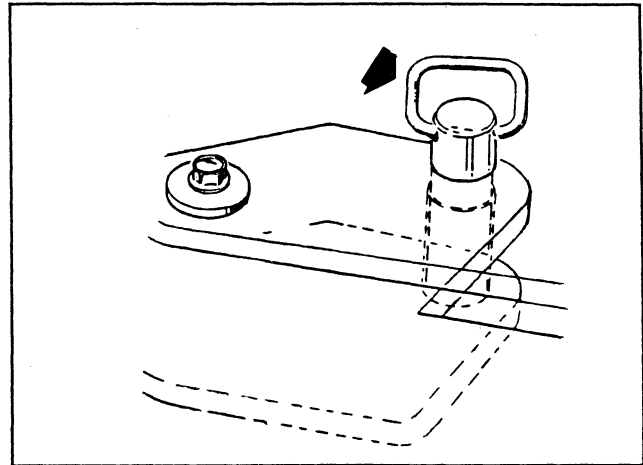
1. The cab air filters are not designed to filter harmful chemicals. When using agricultural chemicals, follow the manufacturer's instructions carefully.
2. Do not carry harmful chemicals in the cab. Chemicals may rupture the container and the fumes may poison the operator.
3. Wear approved respiratory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



ARTICULATION LOCK

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

4 Safety



Articulation Lock

ALTERNATE EXITS

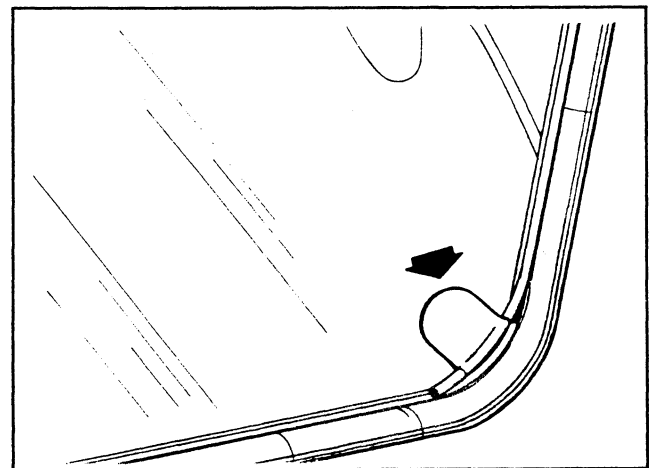
The cab has three exits which may be used in an emergency; the door, the rear and side windows.

Side Window

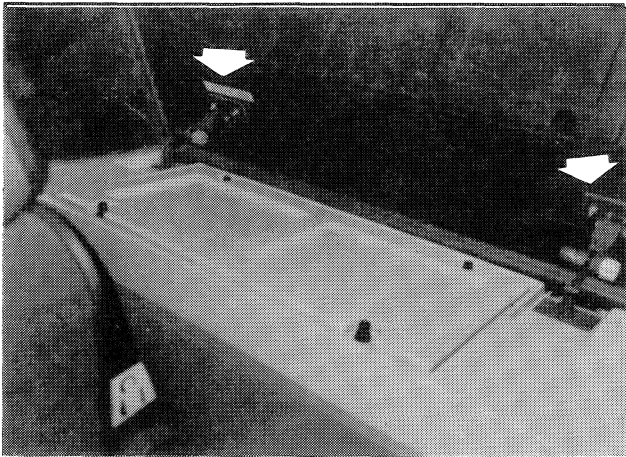
Open the side window by completely pulling cord from side window moulding and pushing window from frame. Start pushing window in an upper corner and work around edges until window comes free.

Rear Window

Open the rear window by unscrewing knob holding pivot arms together. Separate arms and push window open at bottom.



Alternate Exit, Side Window



Alternate Exit, Rear Window

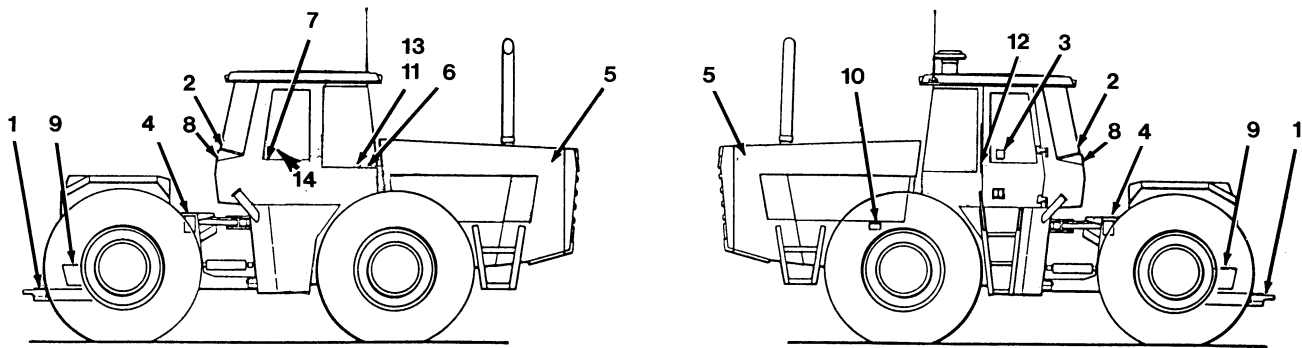
SAFETY DECALS

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 Versatile dealer.

SAFETY DECALS



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

5 WARNING

**PRESSURIZED SYSTEM
REMOVE CAP
SLOWLY**

9 CAUTION

- OPERATE WITH 1000 RPM EQUIPMENT ONLY
- FOR YOUR PROTECTION KEEP SHIELDS IN PLACE
- KEEP HANDS, FEET AND CLOTHING AWAY FROM PTO AND OTHER MOVING PARTS
- DISENGAGE PTO AND SHUT ENGINE OFF BEFORE SERVICING TRACTOR OR IMPLEMENT OR ATTACHING AND DETACHING IMPLEMENTS
- USE DRAWBAR EXTENSION WHEN ATTACHING PTO DRIVEN EQUIPMENT

2 ALTERNATE EXIT - REMOVE KNOB TO FULLY OPEN WINDOW

6 CAUTION

DO NOT OPERATE TRACTOR WITH FLASHING ERROR CODE

To clear error codes see instructions on rear electrical compartment lid.

7 ALTERNATE EXIT

PULL FILLER STRIP TO UNLOCK RUBBER MOULDING AND PUSH OUT WINDOW GLASS

10 WARNING

AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY

- Do not start engine by shooting across starter terminals. Engine can start and machine can move when starting safety switch is bypassed.
- Start engine only from operator's seat with transmission in neutral and park brake applied.

3 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.

4 WARNING

**ARTICULATING JOINT
STAY CLEAR OF THIS AREA
WHEN ENGINE IS RUNNING
TO PREVENT PERSONAL INJURY:**

- SHUT OFF ENGINE BEFORE SERVICING ARTICULATION AREA.
- ENGAGE ARTICULATION LOCK BEFORE LIFTING TRACTOR.
- TRANSPORTING TRACTOR ON ANOTHER VEHICLE.
- PERFORMING MAINTENANCE IN ARTICULATION AREA OR OPERATING STATIONARY PTO EQUIPMENT.
- DISENGAGE LOCK BEFORE DRIVING TRACTOR.

14 CAUTION

ENSURE 3 POINT HITCH SWITCH IS IN TRANSPORT POSITION BEFORE TRANSPORTING IMPLEMENT

13 CAUTION

STOP ENGINE IMMEDIATELY IF TRANSMISSION LUBE LIGHT DOES NOT GO OUT WITHIN 30 SECONDS OF ENGINE STARTUP

DO NOT ENGAGE PTO ABOVE 1200 ENGINE RPM NOR FOR MORE THAN ONE SECOND WITH PLUGGED IMPLEMENT

8 CAUTION

1. DON'T LEAN OVER BATTERIES WHILE MAKING CONNECTIONS.

2. ENSURE VEHICLES ARE NOT IN CONTACT.

3. DON'T CONNECT JUMPER CABLE TO NEGATIVE POST OF DISCHARGED BATTERY.

4. ENSURE POSITIVE AND NEGATIVE CABLE CLAMPS ARE NOT IN CONTACT.

BATTERY BOOSTING INSTRUCTIONS

- SET PARKBRAKE, TRANSMISSION IN NEUTRAL AND TURN ALL ELECTRICAL CONNECTIONS OFF.
- CONNECT ONE END OF JUMPER CABLE TO POSITIVE TERMINAL OF BOOSTING BATTERY AND OTHER END TO POSITIVE TERMINAL OF DISCHARGED BATTERY.
- CONNECT ONE END OF NEGATIVE CABLE TO NEGATIVE POST OF BOOSTING BATTERY AND OTHER END TO TRACTOR FRAME AT LEAST 200 mm (12 in.) FROM DISCHARGED BATTERY.

11 CAUTION

OPERATING INSTRUCTIONS MUST BE GIVEN TO EVERYONE USING THIS TRACTOR AT THE TIME OF INITIAL ASSIGNMENT AND AT LEAST ANNUALLY THEREAFTER IN ACCORDANCE WITH OSHA REGULATION 1928.51 & 1928.57

- READ THE OWNER'S/OPERATOR'S MANUAL PROVIDED WITH THIS TRACTOR
- SECURELY FASTEN YOUR SEATBELT
- MAKE SURE EVERYONE IS CLEAR OF MACHINERY BEFORE STARTING THE ENGINE OR OPERATING THE MACHINE
- WHENEVER POSSIBLE AVOID OPERATING THE TRACTOR NEAR DITCHES, EMBANKMENTS OR HOLES
- REDUCE SPEED WHEN TURNING, CROSSING SLOPES AND ON POISON, SLICK OR MUDDY SURFACES
- STOP OFF SLOPES TOO STEEP FOR SAFE OPERATION
- SWITCH WHERE YOU ARE GOING, ESPECIALLY AT RIDE ENDS ON ROADS, AND AROUND TREES
- DO NOT PERMIT OTHERS TO RIDE
- OPERATE THE TRACTOR SMOOTHLY—NO JERKY STARTS, TURNS OR STOPS
- SWITCH ONLY TO THE DRAWBAR OR THREE POINT HITCH POINTS
- WHEN TRACTOR IS STOPPED SET PARKING BRAKE SECURELY
- KEEP ALL GUARDS IN PLACE WHEN MACHINE IS IN OPERATION
- STOP ENGINE AND WAIT FOR ALL MACHINE MOVEMENT TO STOP AND ENGAGE ARTICULATION LOCK BEFORE SERVICING, CLEANING, OR ADJUSTING

12 CAUTION

ALWAYS FASTEN SEAT BELTS WHEN OPERATING TRACTOR EQUIPPED WITH ROLL OVER PROTECTIVE STRUCTURE.

THIS ROLL OVER PROTECTIVE STRUCTURE DESIGN MEETS OSHA PERFORMANCE CRITERIA WHEN INSTALLED IN ACCORDANCE WITH VERSATILE FARM EQUIPMENT COMPANY MOUNTING INSTRUCTIONS.

THE PROTECTION AFFORDED MAY BE IMPAIRED IF IT HAS BEEN SUBJECTED TO ALTERATION, STRUCTURAL DAMAGE OR INVOLVED IN AN OVER-TURN ACCIDENT. IN THESE CASES THE ENTIRE STRUCTURE MUST BE REPLACED.

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