1370 Tractor
Operator's Manual
Starting with SN 8736001

9-4721

Reprinted

CASE

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THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

M171B

If Safety Decals on this machine use the words **Danger, Warning or Caution,** which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.

WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

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OPERATOR'S CAB (Continued)

Air Filter Service (Continued)

WATER WASHING METHOD - The washing method is used if element is heavily contaminated and sooty. Wash the element in water using Case Filter Element Cleaner Part No. A40910. Mix 2 ounces (59.2cm^3) of cleaner to 1 gallon (3.8 liters) of water at 70^0 to 100^{0}F. (21^0 to 38^{0}C.). Soak element for 15 minutes. Rinse thoroughly with water hose. Do not use water pressure over 40 PSI (276 kPa) at the nozzle. Allow filter to air dry completely before installing. This usually requires 24 to 72 hours. **IMPORTANT:** Do not use compressed air to dry filter element. It would be good practice to have a second filter element to use while the recently washed element is drying.

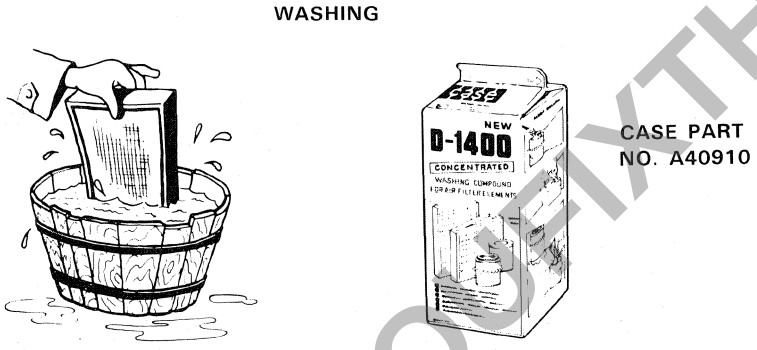


Figure 116

Seat Belt Inspection and Care

THE SEAT BELTS CAN HELP INSURE THE SAFETY OF THE OPERATOR, IF THEY ARE USED AND MAINTAINED AS DESCRIBED.

1. Keep sharp edges and damaging objects away from belts.
2. Periodically inspect belts, buckles and anchors for damage that could lessen the effectiveness of the restraint system.
3. Replace all questionable parts.
4. Replace belts if cut, weakened, frayed, or subjected to collision loads.
5. Check that anchor mounting bolts are tighten to the seat mounting bracket.
6. Keep seat belts clean and dry.
7. Clean only with a mild soap solution and lukewarm water.
8. Do not bleach or dye belts since this may severely weaken belts.

CAUTION: Never wear a seat belt loosely or with slack in the belt system. Never wear the belt in a twisted condition or pinched between the seat structural members.

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Diesel Engine

SPECIFICATIONS

General

Type	6 Cylinder, 4 Stroke Cycle, Valve-In-Head Turbocharged Diesel Engine
Firing Order	1-5-3-6-2-4
Bore	4-5/8 Inches (117.5mm)
Stroke	5 Inches (127mm)
Piston Displacement	504 Cubic Inches (8 259cm^3)
Compression Ratio	15.8 to 1
Cylinder Sleeves	Removable Wet Type
No Load Governed Speed	2340-2380 RPM
Rated Engine Speed	2200 RPM
Engine Idling Speed	700-750 RPM
*Valve Tappet Clearance (Exhaust)	(Hot) .020 Inch (0.508mm)
	(Cold) .025 Inch (0.635mm)
	(Intake) (Hot and Cold) .015 Inch (0.381mm)

*Hot Settings Are Made After The Engine Has Operated At Thermostat Controlled Temperature For At Least Fifteen Minutes.

Piston and Connecting Rod

Rings per Piston	3
Number of Compression Rings	2
Number of Oil Rings	1
Type Pins	Full Floating Type
Type Bearings	Replaceable Precision, Steel Back with Aluminum or Copper-Lead Alloy Liners.

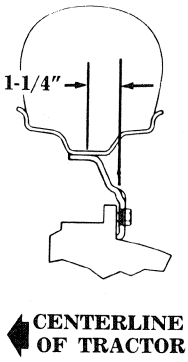
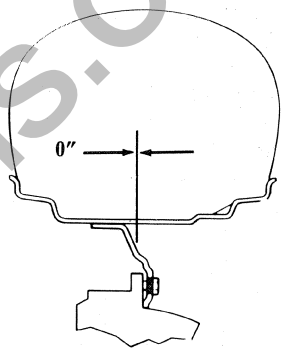
Main Bearings

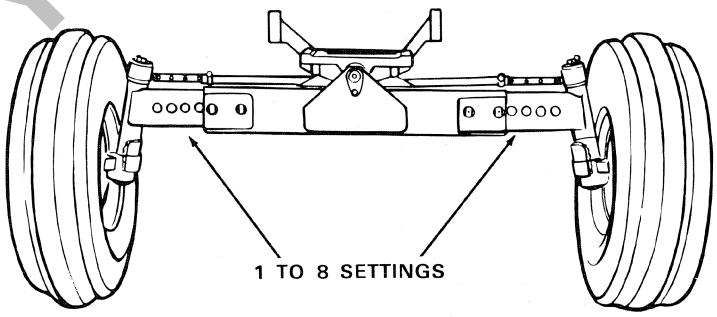
Number of Bearings	7
Type Bearings	Replaceable Precision, Steel Back with Aluminum or Copper-Lead Alloy Liners.

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FRONT WHEEL TREAD SPACING
(With Wheels Dished In Only)

1-1/4 in. (31.8mm) OFFSET W18L-16 WHEEL RIM W/10.00-16 or 11.00-16 TIRE		NON-OFFSET W11L-16.1 WHEEL RIM W/14L-16.1 TIRE
 CENTERLINE OF TRACTOR		 CENTERLINE OF TRACTOR
60-88 INCH (1 524-2 235mm)		61-89 INCH (1 549-2 261mm)
ADJUSTABLE AXLE SPACING IN INCHES AND MILLIMETERS		



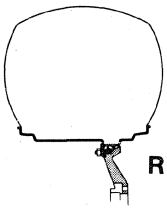
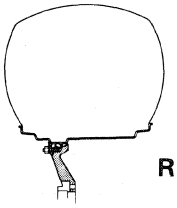
NOTE: Axle spacing listings above are from the narrow setting, to the wide setting in increments of 4 inches (101.6mm).

NOTE: When tightening the 5/8 in. (15.9mm) diameter front wheel bolts, torque 115 to 130 ft. lbs. (156 to 176 Nm). When tightening the 9/16 in. (14.3mm) diameter front wheel bolts, torque 85 to 100 ft. lbs. (115 to 136 Nm), whichever is applicable to your tractor.

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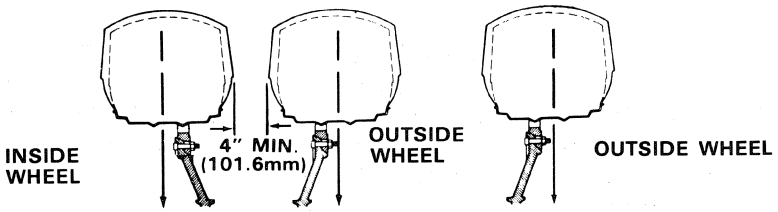
REAR WHEEL TREAD SPACING

TIRE SIZE	 RIM TURNED OUT	 RIM TURNED IN
96 INCH (2 438mm) REAR AXLE		
24.5 X 32	76 TO 95 INCH (1 930 TO 2 413mm)	68 TO 77 INCH (1 727 TO 1 956mm)
23.1 X 34	75 TO 94 INCH (1 905 TO 2 388mm)	67 TO 78 INCH (1 702 TO 1 981mm)
120 INCH (3 048mm) REAR AXLE		
24.5 X 32	76 TO 119 INCH (1 930 TO 3 023mm)	68 TO 101 INCH (1 727 TO 2 565mm)
23.1 X 34	75 TO 118 INCH (1 905 TO 2 997mm)	67 TO 102 INCH (1 702 TO 2 591mm)

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DUAL REAR WHEEL TREAD SPACING



TIRE SIZE	MIN. TREAD	MIN. TREAD	MAX. TREAD	INNER WHEEL	OUTER WHEEL
96 INCH (2 438mm) REAR AXLE					
16.9 X 38	60 IN. (1 524mm)	102 IN. (2 591mm)	109 IN. (2 769mm)	CAST	CAST
				CAST	STEEL
18.4 X 38	62 IN. (1 575mm)	107 IN. (2 718mm)	109 IN. (2 769mm)	CAST	CAST
12.4 X 42	56 IN. (1 422mm)	*101 IN. (2 565mm)	109 IN. (2 769mm)	CAST	CAST
120 INCH (3 048mm) REAR AXLE					
16.9 X 38	60 IN. (1 524mm)	102 IN. (2 591mm)	133 IN. (3 378mm)	CAST	CAST
18.4 X 38	62 IN. (1 575mm)	107 IN. (2 718mm)	133 IN. (3 378mm)	CAST	CAST
18.4 X 38	62 IN. (1 575mm)	107 IN. (2 718mm) W/O SPACER	127 IN. (3 226mm) W/O SPACER	CAST	STEEL
		128 IN. (3 251mm) W/SPACER	152 IN. (3 961mm) W/SPACER		
20.8 X 38	64 IN. (1 626mm)	114 IN. (2 896mm)	133 IN. (3 378mm)	CAST	CAST
20.8 X 38	64 IN. (1 626mm)	113 IN. (2 870mm) W/O SPACER	131 IN. (3 327mm) W/O SPACER	CAST	STEEL
		128 IN. (3 251mm) W/SPACER	152 IN. (3 961mm) W/SPACER		
12.4 X 42	56 IN. (1 422mm)	*101 IN. (2 565mm)	133 IN. (3 378mm)	CAST	CAST

*OVERALL MINIMUM DIMENSION CAN BE 2 INCHES (50.8MM) LESS WHEN CLAMP IS MOUNTED ON INSIDE OF CAST OUTER DUAL WHEEL.

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ENGINE CRANKCASE OIL CHANGE

Run-in-Oil

Drain the crankcase oil after the first 20 hours of operation and replace with new oil. Drain and refill the crankcase at least every 100 hours of operation thereafter. See Page 23 for fill location.

Regular Oil Change

Drain and refill the crankcase at least every 100 hours of operation. See Page 23 for fill location.

If the engine service is severe - (frequent stopping and starting, high or low operating temperature) - the crankcase should be drained more often to prevent the formation of sludge or harmful deposits in the engine.

Crankcase Oil Refill - IMPORTANT

1. When just the crankcase is drained, always refill with 18 Measured U.S. Quarts (17.1 liters) of oil. Do not refill using the dipstick as a guide. See Page 23 for fill location.
2. If you have drained the crankcase and replaced the oil filter element, refill with 22 Measured U.S. Quarts (20.8 liters) of oil. Operate the engine for a few minutes to fill the filter; then check the oil level with the dipstick. Be sure to allow sufficient time for the oil to run down off the engine internal parts. **NOTE:** Make sure the tractor is on level surface when checking oil level with dipstick.
3. By following the above procedure, you will prevent overfilling or underfilling the crankcase, either of which can be detrimental to the engine service life and will give you false oil consumption records.

ENGINE OIL FILTERS

Change Interval ..... After the first 20 hours of operation and each 200 hours thereafter.

1. Remove oil pan drain plug and drain the crankcase.
2. Using A64761 wrench supplied with the tractors, remove the two filters by turning them counterclockwise.
3. Apply a coat of clean oil to the gasket of the new Case filters. Install each filter by turning in a clockwise direction, until gasket contact is made. Hand tighten an additional 1/2 of a turn.
4. Loosen each filter approximately 1 full turn. Retighten, turning clockwise until gasket contact is made. Hand tighten an additional 1/2 to 3/4 of a turn to obtain the proper seal. **NOTE:** Install and secure the oil pan drain plug with gasket using 29 to 31 ft. lbs. (39 to 42 Nm) torque.

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OPERATING CONTROLS AND INSTRUMENTS

Electrical Outlet Socket

The 12 volt outlet socket provides electrical power for auxiliary mounted implements and trailers.

The outlet socket is located on the inside of the rear left fender at the lower outside corner.

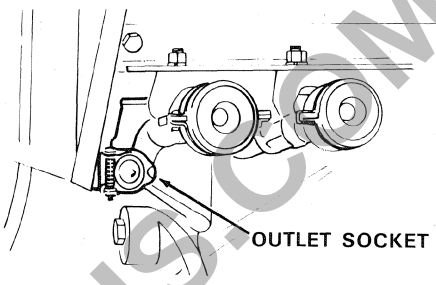


Figure 21

Combination Rear Tail Light and Flood Light

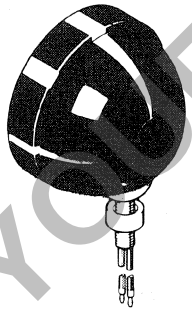


Figure 22

The left rear combination light has a white flood light and a red tail light for night road travel. It is controlled by the light switch on the instrument panel.

Turn the light switch to the Number 2 or 3 position to turn on the flood light. Turn switch to Number 4 position for the red tail light.

The light should be adjusted 10^0 down from horizontal and with rearward projection parallel to tractor axis.

Fuel Tank Shut-Off and Water Trap

Turn the valve in to shut off fuel supply from fuel tank. Valve must be open for tractor operation.

At the start of each day of operation the water trap should be opened to allow any water or sediment to drain out.

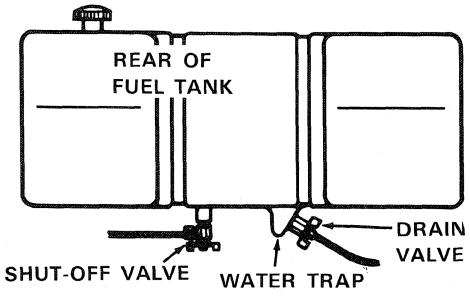


Figure 23

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DUAL REAR WHEEL MOUNTING

When dual wheels are desired for certain working conditions, the inner wheel may be dished in and the outer wheel dished out or both may be dished in or out on the 120″ (3 048mm) long axle. On the 96″ (2 438.4mm) short axle, the inner wheel must be dished in and the outer wheel dished in or out.

The rear duals may be used with two cast iron wheels or one cast iron and one fabricated (Stamped Steel) wheel. The fabricated wheel must always be on the outside. **NOTE:** Do not apply wheel weights when using fabricated wheel.

Additional maximum tread spacing on long axle may be obtained by using spacers with the fabricated outside wheels. Each spacer is 10″ (254mm) in width. For dual tread spacings, See Page 15.

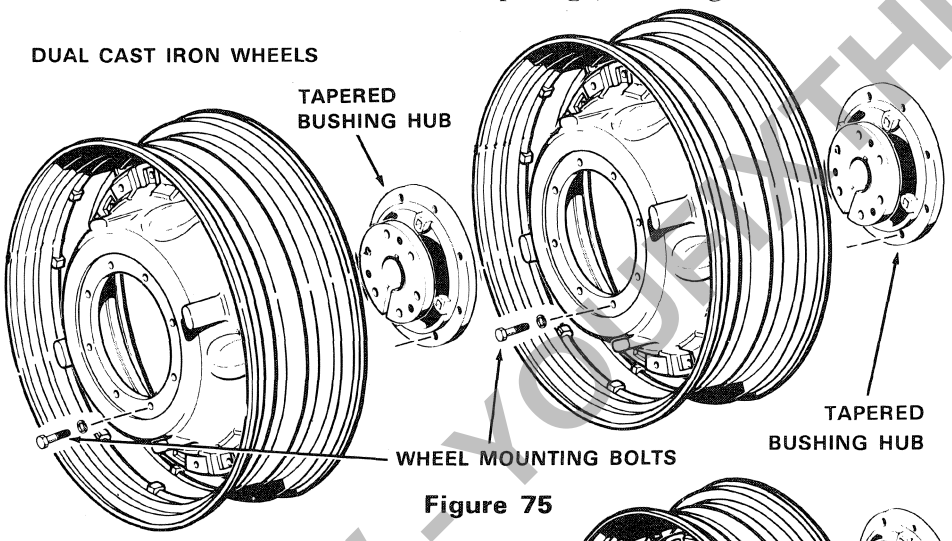


Figure 75

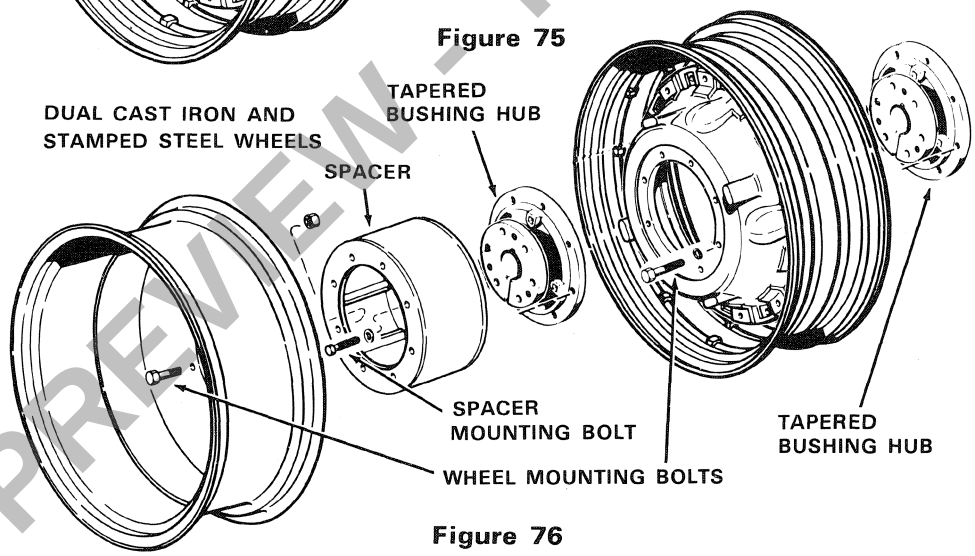


Figure 76

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Flashing Amber Warning Lights

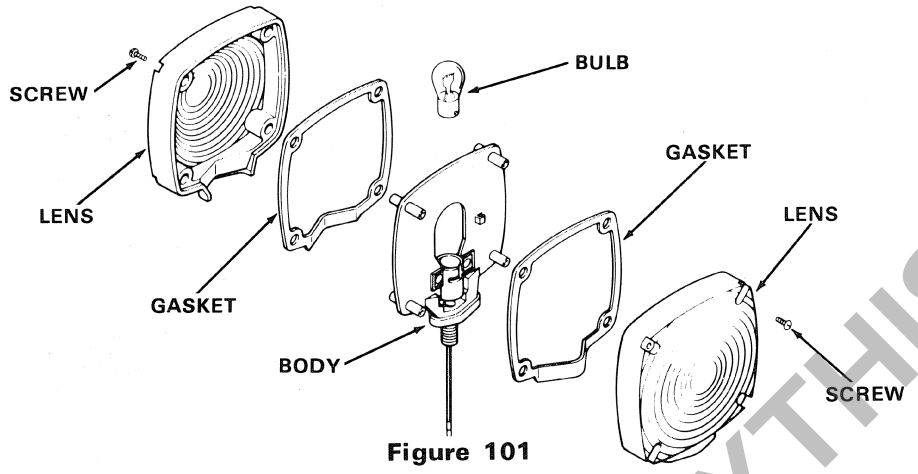


Figure 101

To replace bulb, remove the lens retaining screws, lens and gaskets. Press down on the bulb, turn and pull up to remove. Install new bulb by pressing down and turning. Replace gaskets or lens if cracked or broken. Wipe lens clean before reinstalling. Reinstall gaskets, lens and retaining screws.

Implement Warning Lamp

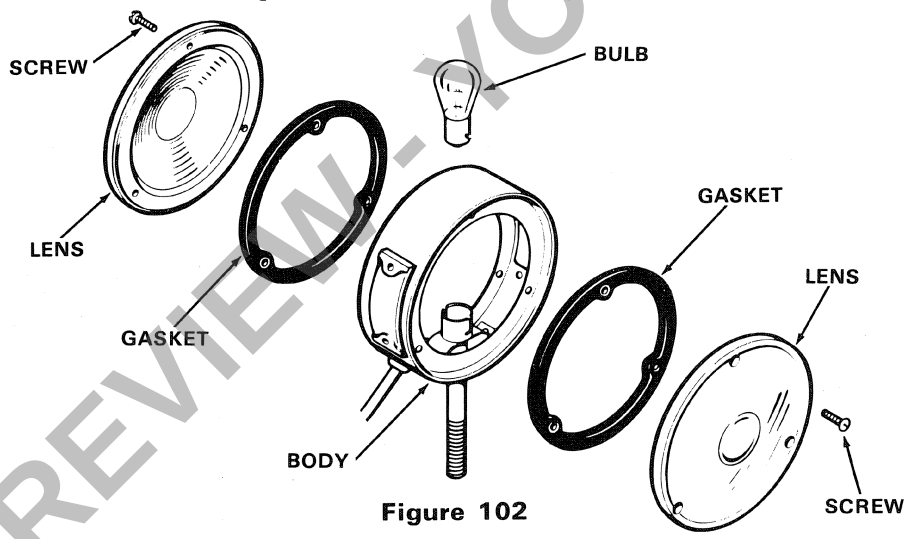


Figure 102

To replace bulb, remove the retainer screws, lens and gaskets. Press down on bulb, turn and pull up to remove. To install new bulb press down and turn. Reinstall gaskets, lens and screws.

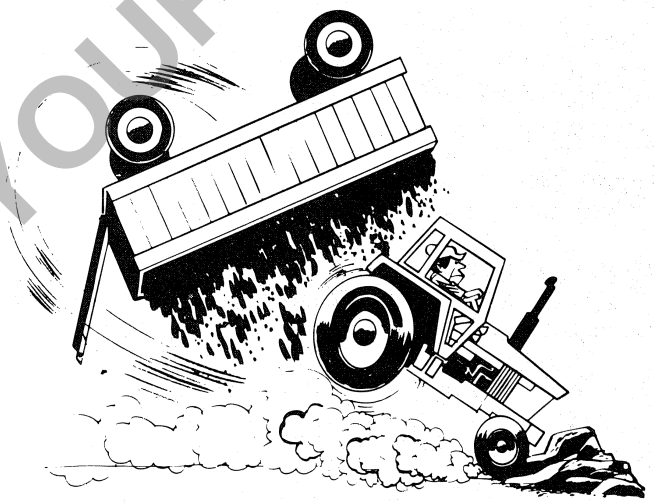
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⚠ Engine starting and control operation must be performed from the operators seat only.

⚠ Tractor travel speed should be such that complete control and tractor stability is maintained at all times. There is potential danger in manuevering around ditches, gullies, slopes, uneven ground, holes and rocks.



⚠ Brake pedals must be locked together for road travel. This will insure uniform brake application and maximum stopping ability.

⚠ Excess tractor speed is the big killer. Only experienced drivers should be permitted on highways. Use SMV safety emblem and lights for adequate warning to the operators of other vehicles. In this regard, check local government regulations.

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