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SAFETY
Safety Rules

Understand that your safety and the safety of other persons is measured by how you service, and operate this machine. Know the positions and operations of all controls before you try to operate. MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.

READ THIS MANUAL COMPLETELY and make sure you understand the controls. All equipment has a limit. Make sure you understand the speed, brakes, steering, stability, and load characteristics of this machine before you start to operate.

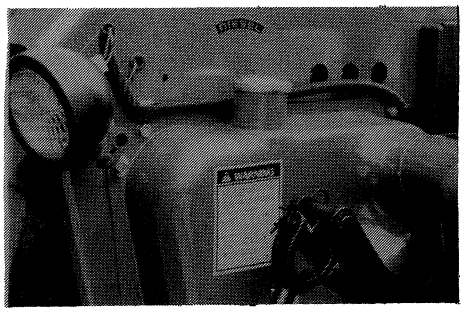
The safety information given in this manual does not replace safety codes, insurance needs, federal, state and local laws. Make sure your machine has the correct equipment needed by the local laws and regulations.

J I Case is continuing to work for your safety: by making tractors with better protection and by giving these rules for safe operation.



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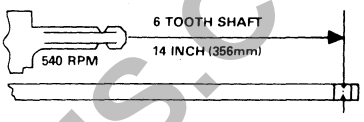


⚠ WARNING

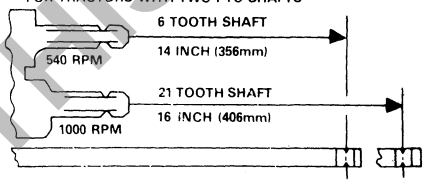
TO AVOID CLOTHING ENTANGLEMENT AND INJURY, PTO SHIELD MUST BE POSITIONED FOR SHAFT BEING USED. KEEP DRIVELINE SHIELDS IN PLACE.

DRAWBAR MUST BE SET AND LOCKED TO PREVENT BOTTOMING OR SEPARATION OF DRIVELINE:

FOR TRACTORS WITH ONE PTO SHAFT



FOR TRACTORS WITH TWO PTO SHAFTS

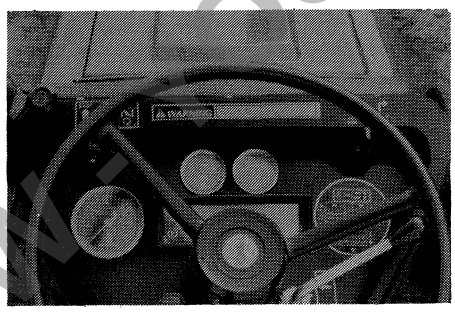


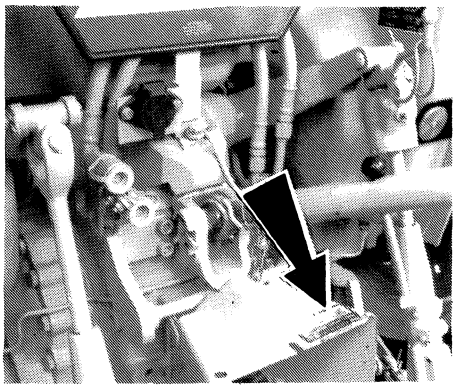
321 6769 COS

⚠ WARNING

PTO MACHINES MAY FAIL IF OPERATED OVER RATED SPEEDS. AVOID INJURY. LIMIT RPM TO 600 OR LESS FOR 540 RPM MACHINES AND 1100 OR LESS FOR 1000 RPM MACHINES. COS

321 6770





⚠ WARNING

Power drive system safety shields must be kept in place. ET

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LOADS MATCHED TO TRACTOR

Do not operate the tractor with heavy implement loads that need the use of gears in the lower ranges. The tractor is made for continued field operation at the rated engine rpm and 2nd gear, low range or faster with a load that is correctly matched to the tractor. If you operate the tractor with too much ballast and pull too heavy a load for a long period of time in the low gears, you will cause damage to the drive train and decrease tire life.

1 .If you want to operate at a slower ground speed than 2nd gear-low range, first check for correct matched gear selection where the tractor can pull the load at rated engine rpm and 2nd gear-low range or faster. Then, change to a lower gear for continued operation at a slower speed.

2. The best traction occurs when wheel slip is between eight and fifteen percent for drawbar work and thirteen to fifteen percent for hitch work (the extra percent is to compensate for additional tire distortion caused by weight transfer from the hitch).

3. Remove the ballast when not needed for lighter loads.

4. Pull lighter loads at a little faster speed to do more work and increase efficiency. Do not over ballast the tractor to pull very heavy loads.

5. If the implement cannot be pulled at the required depth at rated engine rpm and 2nd gear-low range or faster, the implement is over matched for your tractor.

Operating a tractor with too much weight can cause:

A. A decrease in horsepower available at the implement and then, a decrease in amount of field worked.
B. An increase in amount of fuel used.
C. A decrease in tire life.
D. The soil to be compressed.
E. Too much force on the power train which will decrease the life of the power train and cause high operating cost.

The most important item in field operations is the amount of horsepower available at the hitch or drawbar. Power needed to move a tractor that has too much weight will decrease the power that is available to pull the implement.

IMPORTANT: *The total tractor weight with ballast must not be more than that stated on the ROPS label.*

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Fuel Conditioner

Case Diesel Fuel Conditioner is available from your Dealer. Instructions for the use of the fuel conditioner are on the container.

The use of Case Diesel Fuel Conditioner will:

1. Clean fuel injectors, valves and manifolds for increased service life.
2. Disperse insoluble gummy deposits that can form in the fuel system.
3. Separate moisture from fuel.
4. Stabilize fuel in storage.

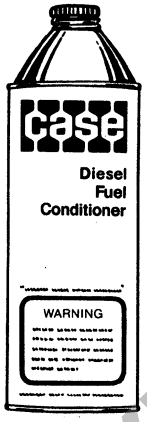


Figure 12

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Standard Synchromesh Transmission

Type . . . . . 4 Speed Synchromesh, High and Low Ranges and Reverse Manual Foot Operated Clutch

Gear Selection . . . . . 8 Speeds Forward and 4 Speeds Reverse

Shift Control . . . . . Actuated by 2 Levers on Left Console

Optional Forward Reverse Shuttle Transmission

Type . . . . . Same as Synchromesh, Except Reverse, Plus Hydraulically Operated Forward and Increased Speed Reverse Gear

Gear Selection . . . . . 8 Speeds Forward and 8 Speeds Reverse

Shift Control . . . . . Actuated by 2 Levers on Left Console, and Forward / Reverse Lever on Instrument Panel

Optional 2 Speed Power Shift Transmission

Type . . . . . Same as Synchromesh, Plus Hydraulically Operated Speed Decrease in all Forward and Reverse Gears

Gear Selection . . . . . 16 Speeds Forward and 8 Speeds Reverse

Shift Control . . . . . Actuated by 2 Levers on Left Console, and Power Shift Switch on Instrument Panel

Oil Cooler . . . . . Transmission, Hydraulic, Steering and Brake Oil

Mechanical Front Drive (M.F.D.)

Axle Type . . . . . Spiral Bevel Gear and Planetary Reduction Hubs APL 330 Standard or Optional APL 325 with LImited Slip Differential

Transfer Gearbox . . . . . Mechanically Operated Dog Clutch as Standard, or Optional Electical / Hydraulically Operated Multiplate Clutch

Shift Control . . . . . Lever for Standard Dog Clutch or Switch for Optional Electical /Hydraulic Multiplate Clutch

Axle Oil Capacities

- Differential . . . . . 4.5 U.S. Quarts (4.5 Litres)
- Hubs (Each Side) . . . . . 0.8 U.S. Quart (0.75 Litre)

Differential Lock

Type . . . . . Mechanically Actuated by Operators Right Foot

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Grease Points

Lubrication interval . . . . . Every 10 hours

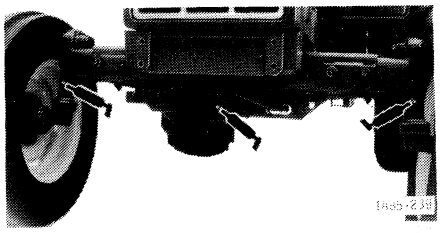


Figure 82
Steering arm pivot and knuckles

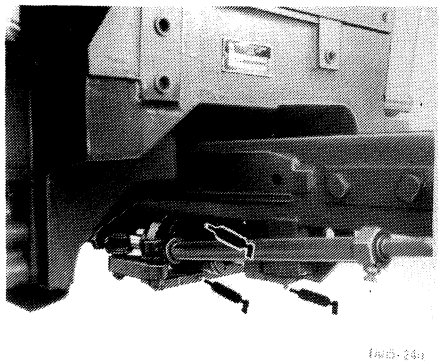


Figure 83
Steering cylinder pivot and clevis

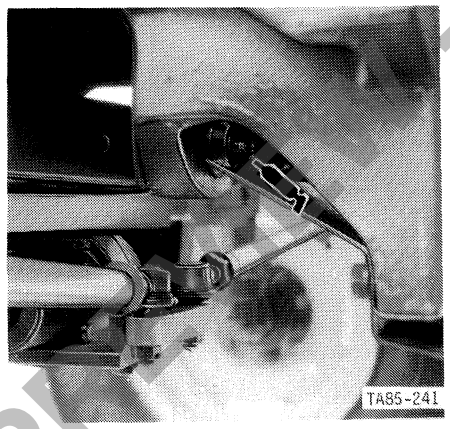


Figure 84
Axle pivot rear

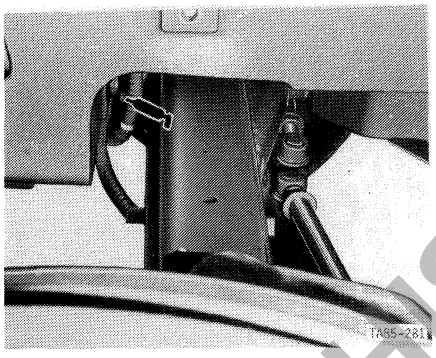


Figure 85
Axle pivot front

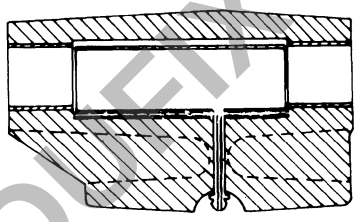


Figure 86
Axle pivot, Rigid cast iron axle

NOTE: *On tractors with a rigid cast iron axle, the pivot is lubricated through a single grease nipple located centrally on the underside of the axle as shown.*

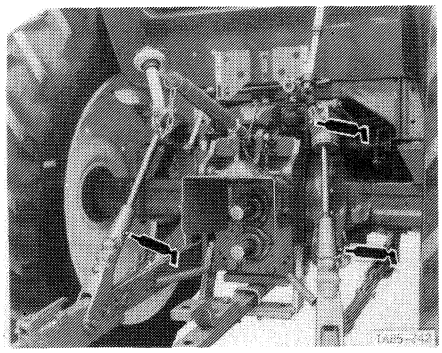


Figure 87
Three point linkage levelling box and levelling screws.

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Engine Oil Filter Change

Change Interval . . . . . Every 200 hours

IMPORTANT: *Change the oil filter at the correct interval, and use only a Case approved filter.*

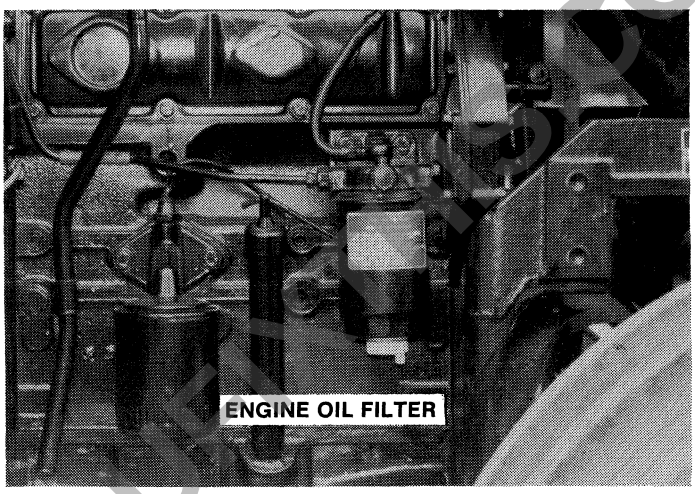


Figure 91

1. Drain the engine oil then install and tighten the drain plug .
2. Turn the filter counterclockwise to remove. If necessary use a strap wrench.
3. Clean the the filter seat on the engine, then use clean oil to lubricate the filter gasket.
4. Install the new filter until the gasket comes into contact with the engine then tighten half a turn. DO NOT TIGHTEN WITH A WRENCH.
5. Fill with the correct grade of engine oil to the upper level mark on the dipstick.

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THREE POINT HITCH

The Case three point hitch system gives position control and draft control of soil engaging implements.

Lower links are reversible to fit Category I or Category II equipment.

Implement Identification Dimensions

	Category I* Implement	Category II** Implement
Diameter of hitch pins	7/8 inches (22.3mm)	1-1/8 inches (28.6mm)
Distance between shoulders of hitch pin	26-7/8 inches (682.6mm)	32-1/4 inches (819mm)
Gap in top of implement mast	1-3/4 inches (44.5mm)	2-1/16 inches (52.4mm)
Diameter of holes in top of implement mast	3/4 inches (19.1mm)	1 inch (25.4mm)

* Rotate lower link so that 7/8 inch hitch pin hole is at the rear.
** Rotate lower link so that 1-1/8 inch hitch pin hole is at the rear.

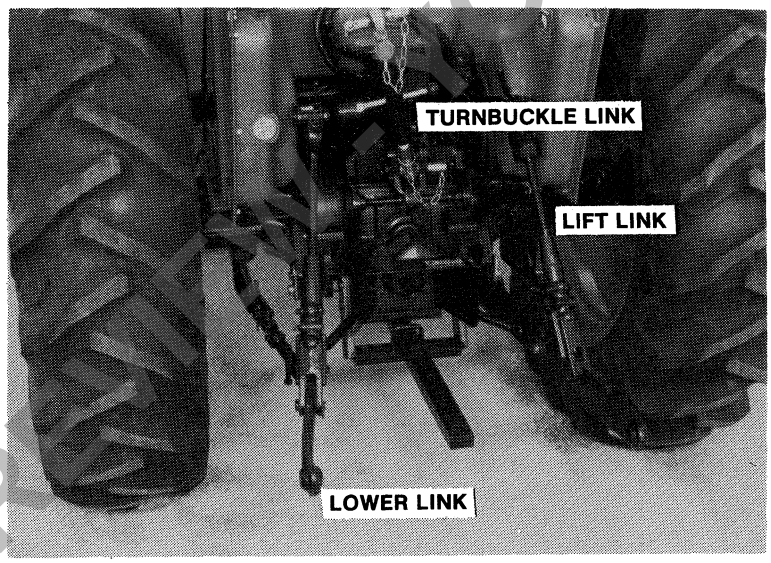


Figure 65

WARNING: ***Be certain all hitch retaining pins are securely engaged in the implement lift pins and both telescopic lower link latches are fully engaged before transporting or pulling the implement.***

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Operation

WARNING: *Engine can start with transmission in gear when neutral or safety start switch is by-passed.*

1. Do not connect across terminals on starter.

2. Attach booster batteries according to safe method in Operators Manual. Then use recommended starting procedure from operators seat.

3. When necessary, repair electrical system components promptly so that "jump starting" will not be attempted.

Machine run-away can cause injury or death to operator and by-standers.

WARNING: *Collision of high speed road traffic and tractors or implements can cause personal injury or death. On roads, use flasher/lights according to local laws. Keep SMV emblem visible.*

WARNING: Tractor travel speed should be such that complete control and tractor stability is maintained at all times. Where possilble, avoid operating the tractor near ditches, embankments and holes. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.

CAUTION: *Stop, look and listen before entering a highway, stay on your side of the road and pull over to let faster traffic pass. Slow down and signal as you turn off.*

WARNING: *A frequent cause of personal injury or death is persons falling off and being run over. Do not permit others to ride. Only one person - the operator - should be on a tractor when it is in operation.*

CAUTION: *Try to balance the load primarily on the implement wheels - as in loading a trailer or spreader. Avoid overloading the drawbar. Add front end weights for improved stability. Engage the clutch smoothly, avoid jerking and use the brakes cautiously to avoid jack-knifing.*

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BEFORE STARTING THE ENGINE

Before starting your Case Tractor for the first time and before each operating period after that, make these checks:

1. Make sure all persons that operate or do maintenance on the tractor understand that clean fuel is important.

2. Check all lubrication fittings for grease as given in the Lubrication Chart.

3. Check the oil level in the engine crankcase. Check the fluid level in the transmission.

4. Check the electrolyte level in the batteries.

5. Check that the tractor fuel tank is filled with clean fuel that has the specifications given in this manual.

   NOTE: *Clean around the fuel tank cap before you remove the cap.*

6. Check the fuel system, cooling system and engine oil pan for leaks.

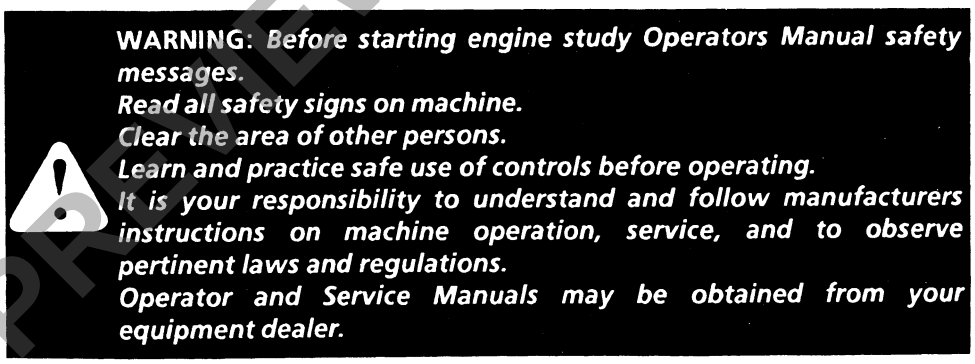
7. Check that the alternator belt is adjusted correctly.

8. Remove any water or sediment from the water trap of the fuel filters.

9. Check the air pressure in the tires.

10. If your tractor has a power takeoff, make sure the safety guard is installed.

11. Check the coolant level in the radiator. Add water and Ethylene Glycol coolant as needed.



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TOWING THE TRACTOR

If it is necessary to tow a tractor, follow these rules:

IMPORTANT: *The engine must be running at approximately 1000 RPM. to provide power steering and transmission lubrication. If the engine cannot be run, add 4 U.S. gal (15 litre) of HY-TRAN PLUS (MS 1207) to the transmission. After towing the tractor, drain sufficient fluid to bring the level in the transmission to the FULL mark.*

1. Never tow the tractor faster than the maximum rated ground speed of the tractor.

2. Make sure all controls are in the NEUTRAL position.

3. Because of a possible loss of steering and brakes when the tractor engine is not running, use only a rigid towing bar and safety chains to tow the tractor.



CAUTION: *Make sure that the weight of a trailed vehicle that is not equipped with brakes, NEVER EXCEEDS the weight of the machine that is towing the vehicle. Stopping distance increases with increasing speed as the weight of the towed load increases, especially on hills and slopes.*

TRANSPORTING THE TRACTOR

When transporting the tractor by truck or rail, hold the tractor with tie downs and blocks.

IMPORTANT: *The PARK BRAKE MUST NOT be engaged when transporting a tractor. Engage the PARK BRAKE BEFORE releasing tractor tie downs.*

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