TO THE OWNER OF A CASE IH TRACTOR

Use this manual as your guide. If you follow the instructions given in this manual, your Case IH Tractor will work well for many years.

Your Dealer can give you assistance with J I Case Company made parts and persons with special training that know the best methods of repair and maintenance for your tractor.

Call your Dealer if you need any assistance or information.

Your Authorized Case IH Dealer



Figure 1

NOTE: *When you are in the tractor seat looking forward, the right hand and left hand of the tractor are the same as your right hand and left hand.*

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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.



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

Before Starting



WARNING: ***Before starting engine study Operators Manual safety messages.***
Read all safety signs on machine.
Clear the area of other persons.
Learn and practice safe use of controls before operating.
It is your responsibility to understand and follow manufacturers instructions on machine operation, service, and to observe pertinent laws and regulations.
Operator and Service Manuals may be obtained from your equipment dealer.



WARNING: ***Before starting the engine, be sure all operating controls are in neutral. This will ease starting loads on the starter and batteries and will eliminate the accidental start up of power driven equipment.***

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Operation

WARNING: *Operate controls only when seated in the Operators seat.*

WARNING: *Securely fasten your seat belt if the machine has a ROPS frame or cab. The seat belt can help insure your safety if it is used and maintained.*

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.*

WARNING: *Operate the machine with the door closed to provide proper ROPS protection and to properly utilize the heating, ventilating or cooling systems.*

CAUTION: *To provide more secure hand and foot mobility, preventing slipping and possible injury, always face the machine when mounting and dismounting.*

WARNING: *Before leaving the machine, stop the engine, place all controls in neutral, and either set the parking brake or place range lever in PARK position as equipped.*

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TIRE AND RIM SERVICE

Check Air Pressure

Check the tire inflation pressure every 50 hours of operation or one time per week. Check the condition of the tires and rims for wear or damage. Keep the tires inflated to the recommended pressures. See "Tire and Wheel Specifications" in this manual for recommended inflation pressures for each tire size.

For tires equipped with liquid ballast, check the air pressure as follows:

1. Use an air-water gauge. The valve must be at the bottom of the tire to get an accurate reading.

2. Use a standard air gauge as follows:
   A. The valve must be at the top of the tire.
   B. Measure the rim diameter.
   C. Add 1/2 PSI for each 12 inches of rim diameter to the standard gauge reading.

Tire Inflation Procedure

WARNING: ***A tire can explode during inflation and cause serious injury or death. Never increase air pressure beyond 35 PSI to seat the bead on the rim. Replace a tire if it has a defect. Replace a wheel rim which has cracks, wear or severe rust. Make sure that all the air is removed from a tire before removing the tire from the rim. Never use force on an inflated or partially inflated tire. Make sure the tire is correctly seated before inflating.***

DO NOT inflate a tire that has had a complete loss of air. If the tire has lost all air pressure, have a qualified tire mechanic service the tire.

To ADD air to a partly inflated tire, use the following procedure:

1. Use an air hose with a remote shutoff valve and a self-locking air chuck.

2. Stand behind the tread of the tire and make sure all persons are away from the side of the tire before you start to add air.

3. Inflate the tire to the recommended air pressure. DO NOT inflate the tire more than the recommended pressure.

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MEASUREMENTS AND WEIGHTS
Mechanical Front Drive - Type II

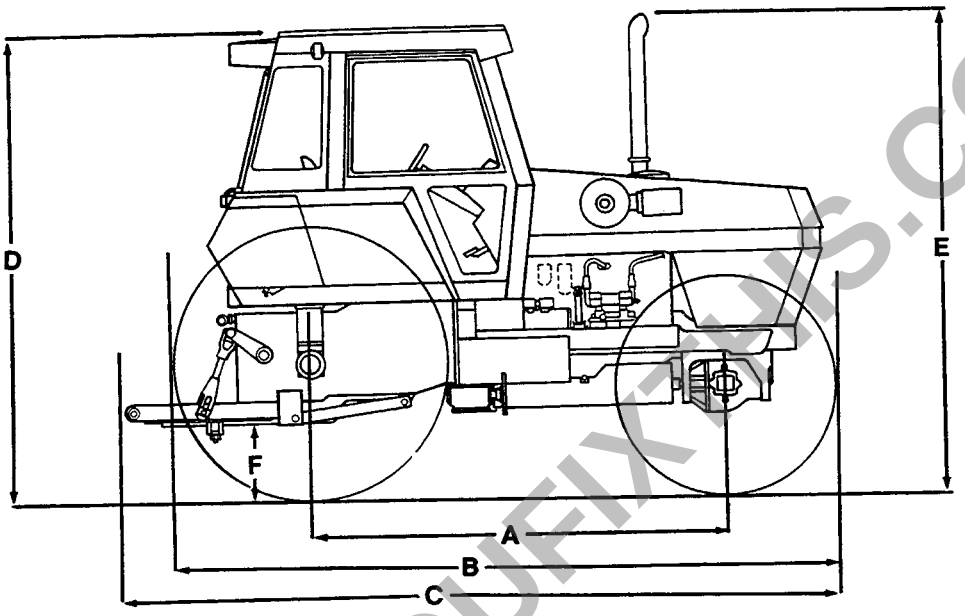


Figure 20

TIRE AND WHEEL EQUIPMENT FOR DATA SHOWN BELOW	
Front - 14.9 x 28 R1 W12-28	Rear - 18.4 x 38 R1 W16L-38
A. 104 Inch (2 642 mm)	D. 116 Inch (2 959 mm)
B. 165 Inch (4 191 mm)	E. 119.5 Inch (3 035 mm)
C. 178.5 Inch (4 534 mm)	F. 13.5 Inch (343 mm)

Turning Radius ..... 226 Inches (5 740 mm)

Turning Radius With Brake Assistance ..... 197 Inches (5 004 mm)

Approximate Transport Weight

Approximate weight of tractor ..... 13,207 lb (5 991 kg)

NOTE: *Weight is based on tractor equipped with most common optional equipment, minimum fuel, no iron or liquid ballast and no operator.*

ROPS Maximum Gross Machine Weight

The total tractor weight with all equipment and ballast weight must never be more than ..... 16,600 lb (7 532 kg)

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BATTERIES

Service Interval ..... Every 100 hours of operation

Check the water level in each cell at the service interval shown above. Remove battery plugs carefully. Water must be added before the top of the separators show. Do not fill too much.
Unless the water you use has no minerals, add distilled water to the batteries. When water is added at ambient temperatures below 32° F (0° C) the batteries must have a charge immediately to mix the water and electrolyte. Freezing of the water will occur if the water is not mixed with the electrolyte, because the water will keep at the top.

DANGER: ***BATTERY ACID CAUSES SEVERE BURNS. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL - Flush with water. INTERNAL - Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Call physician immediately. EYES - Flush with water for 15 minutes and get prompt medical attention.***
BATTERIES PRODUCE EXPLOSIVE GASES. Keep sparks, flame and cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN.

Keep your batteries in good operating condition as follows:
1. Add distilled water as needed to keep separators under water.
2. Keep the batteries with a full charge as shown on a hydrometer.
3. Keep the batteries clean and dry. Make sure the batteries are fastened in position.
4. If a battery will not keep a charge, install a new battery that has the specifications given in the "Specifications" section.
5. Before you add water, check each cell with a hydrometer. The specific gravity in each cell must have full charge.
6. When using a battery charger, charge at the lowest rate possible to reduce gas formation. DO NOT charge a frozen battery, it can explode.

NOTE: *The full charge specific gravity will be shown on the battery most of the time. Cold temperatures of approximately 0° F (-17.7° C) will cause freezing of a battery with a specific gravity of 1.175.*

VENT CAPS

Each battery has vent caps that must be checked and cleaned every 100 hours of operation. Make sure the vent caps are free of dirt to prevent a build up of gas pressure in the cells.

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Figure 10

WARNING

REAR UPSET CAN RESULT IF PULLING FROM WRONG LOCATION ON TRACTOR.
HITCH ONLY TO THE DRAWBAR.
USE 3 POINT HITCH ONLY WITH IMPLEMENTS DESIGNED FOR ITS USE-NOT AS A DRAWBAR.

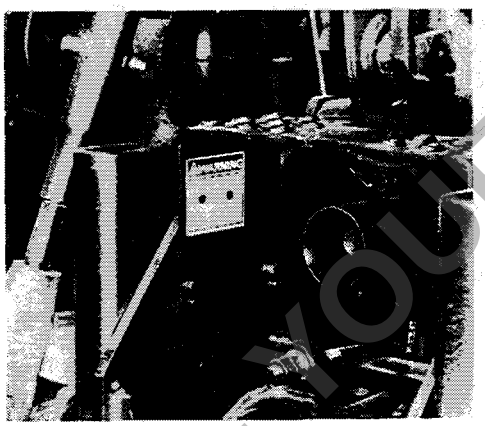


Figure 11

WARNING

THIS TRACTOR IS EQUIPPED WITH A DUAL SPEED PTO —

6 SPLINE	21 SPLINE
540 RPM	1000 RPM

BE SURE IMPLEMENTS ARE MATCHED FOR THE PROPER DRIVE SPEEDS CENTER AND LOCK DRAWBAR WHEN USING PTO

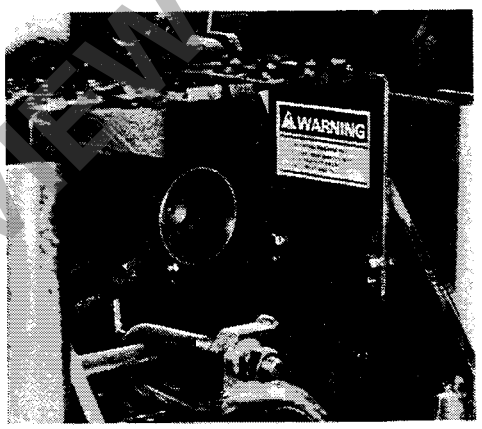


Figure 12

WARNING

ROTATING MACHINE PARTS
STAY CLEAR, KEEP SHIELDS INSTALLED TO HELP PROTECT FROM CLOTHING ENTANGLEMENT AND INJURY.

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FRONT WHEEL FENDERS (IF EQUIPPED)

Front wheel fenders are available for tractors equipped with the MFD Type I axle. The fenders are mounted on the axle steering housings. To provide the necessary clearance between the fender and other tractor components, the fender mounting position must be adjusted for tire size and tread width being used. See Fender Mounting Positions in this section for complete instructions.

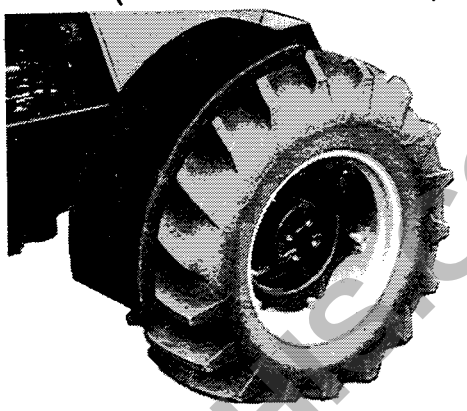


Figure 164

Fender Mounting Components

The following illustration shows the various fender mounting components. The fender position is adjusted for width by installing the short spacer and long spacer in different positions in relation to the upper and lower fender support brackets and the fender mounting bracket. The fender mounting bracket also has four (4) slotted holes to move the bracket "IN" or "OUT" as required for the various tread widths. The upper and lower fender supports have three (3) mounting holes to adjust the fenders for "Low position" or "High position" as required for the tire size and tread type being used. See Fender Mounting Positions in this section for complete instructions.

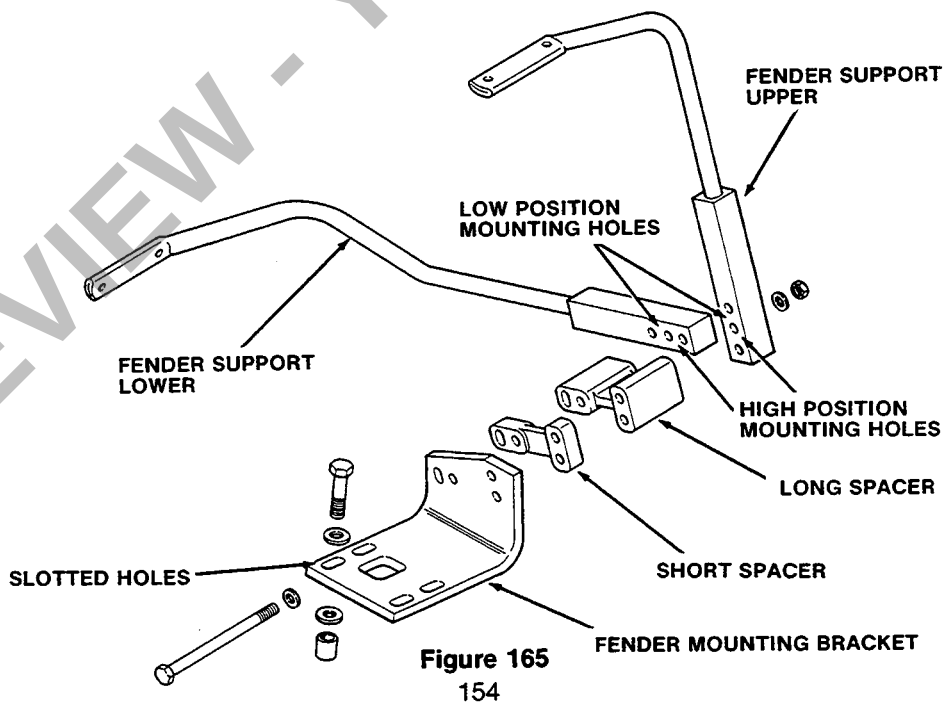


Figure 165

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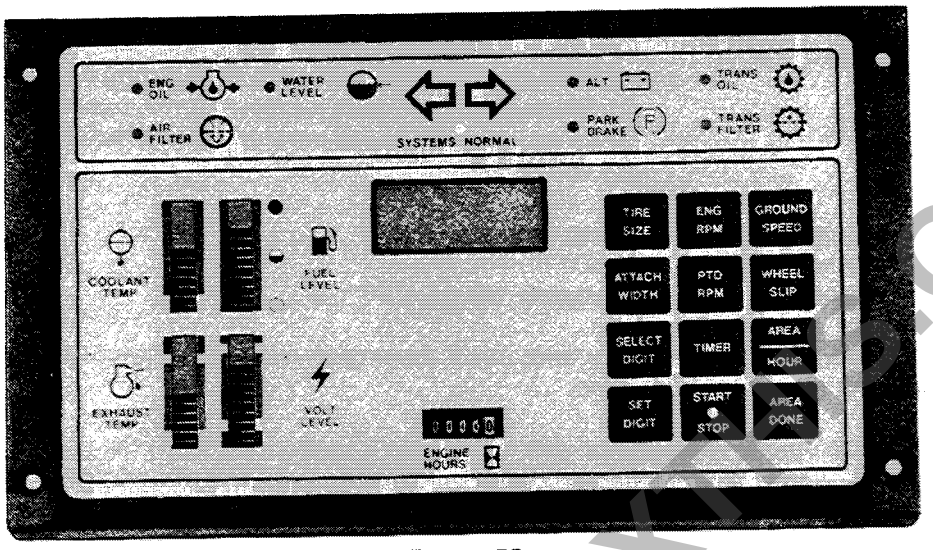
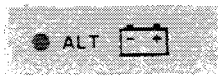


Figure 55



5. ALTERNATOR SERVICE MONITOR - Service is indicated by a constant red indicator (there is no audible alarm). At any time during engine operation the alternator does not supply enough power for the electrical system, the following will occur:

A. Red indicator will illuminate and stay ON.
B. Green systems normal indicator will go OFF.

You can continue to operate the tractor until the voltage level alarm sounds. See Volt Level Bar Indicator for more information.

IMPORTANT: *Before stopping the tractor, make sure it will not block a road and that is will be safe for the operator to leave. The battery may be too low to start the engine if the tractor has to be moved.*



6. TRANSMISSION OIL SERVICE MONITOR - Service is indicated by a constant red indicator and a repeating audible alarm. If at any time during tractor operation the transmission oil becomes too hot or the oil pressure is too low, the following will occur:

A. Red indicator will illuminate and stay ON.
B. Alarm will sound ON and OFF.
C. Green systems normal indicator will go OFF.

Stop the engine immediately. Find and correct the problem.

NOTE: *If tractor is equipped with Automatic Engine Shutdown, the engine will shutdown 30 seconds after the red indicator goes ON. See Automatic Engine Shutdown in this manual for more information.*

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PTO OPERATING SAFETY

For the safe operation of the PTO, follow these safe operating practices.

1. Hold the drawbar in the center location on the drawbar support with the stop pins.
2. The drawbar clevis must be removed, **or** mounted under the drawbar, to prevent possible interference between the clevis and the implement driveline.
3. Connect the implement hitch to the drawbar with a hardened steel pin. Make sure the pin is securely held in place with a cotter pin or lock pin and does not make contact with the implement driveline.
4. Connect the implement hitch to the tractor drawbar before connecting the implement driveline to the power takeoff.
5. Connect the implement driveline to the tractor. Check the driveline for correct length and for free telescopic movement. The correct length is important to prevent the driveline from hitting bottom or from separating in any tractor or implement operating position.

IMPORTANT: *Follow the implement manufacturers recommendations in adjusting and aligning the implement and implement driveline with the tractor.*

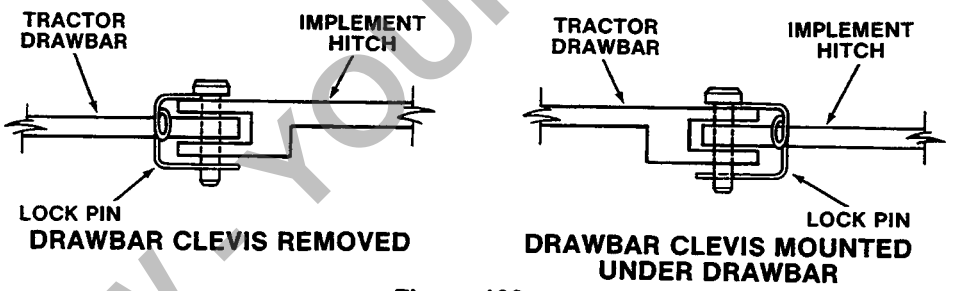


Figure 122

WARNING: *PTO driven machinery can cause serious injury. Before working on or near the PTO shaft, or servicing or clearing the driven machine, put the PTO lever in the DISENGAGE position and STOP the engine.*

WARNING: *When doing stationary PTO work and dismounting from the tractor with the PTO running, keep clear of all moving parts as they are a potential safety hazard.*

WARNING: *This tractor is equipped with a dual speed PTO-540 RPM and 1000 RPM. Be sure implements are matched for the proper drive speeds. Center and lock drawbar when using PTO.*

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