

TO THE OWNER OF A CASE INTERNATIONAL TRACTOR

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

Your Authorized Case Dealer can give 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 Authorized Dealer if you need any assistance or information.

Your Authorized Case Dealer



85/267

248L 2WD TRACTOR WITH A NON ADJUSTABLE, CAST FRONT AXLE
AND A FABRICATED FRONT BOLSTER

NOTE: *Right hand and left hand of the tractor used in this manual, are the same as your right hand and left hand, when you are in the seat looking forward.*



258 2WD TRACTOR WITH ADJUSTABLE FRONT AXLE

85/268

SERIAL NUMBERS

When ordering service parts always quote the tractor, transmission, and engine serial numbers, including prefix and suffix letters.

If information is required that is not in this manual see the nearest authorized Case International Dealer.

Transmission Serial Number

EXAMPLE: 293805 BTY

The suffix letters, BTY denote the type of transmission installed.

The first letter denotes the type of drive train, B = fast speed transmission, A or D = slow speed transmission.

The second letter denotes the bevel gear ratio,
T = 11:52, S = 14:51 and R = 12:53.

The third letter denotes the operating speeds for the PTO shafts as shown below.

| | | | |
|---|---|------------|--------------|
| U | = | 555 r/min | Upper Shaft |
| V | = | 1000 r/min | Lower Shaft* |
| W | = | 580 r/min | Upper Shaft |
| X | = | 606 r/min | Upper Shaft |
| Y | = | 611 r/min | Upper Shaft |
| Z | = | 614 r/min | Upper Shaft |

* V denotes that only a lower PTO shaft is fitted. This shaft is for compressor (or similar) operation and can have 21 or 6 splines.

NOTE: All upper shafts have 6 splines.

A two shaft PTO is indicated by a fourth suffix letter D. The lower shaft will usually have 21 splines but a 6 spline shaft can be installed for some markets.



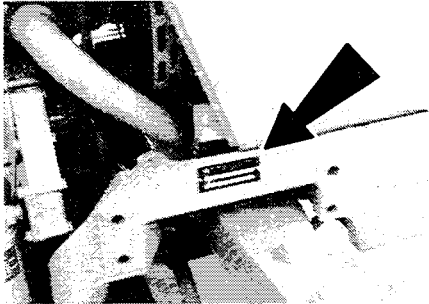
WARNING: If this tractor is equipped with 2 PTO shafts, be sure that implements are matched for the proper drive speed. Centre and lock the drawbar when using the PTO.



CAUTION: Installing an adapter on the PTO shaft, to convert the shaft diameter or to convert the number of splines on the shaft, moves the driveline connection rearward. This exposes the front universal joint and attaching mechanism. Adapters must not be installed unless the original master shield on the tractor is extended with equivalent shielding.

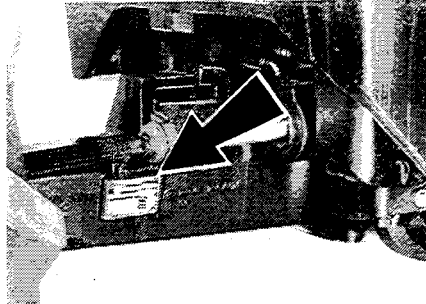
The use of an adapter is not recommended.

Serial Number Location



TA85/193

MODEL AND PRODUCT
IDENTIFICATION NUMBER



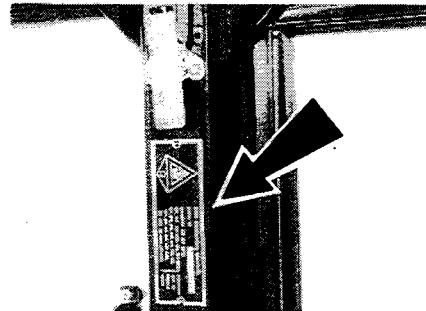
87/52/4a

MFD AXLE SERIAL NUMBER



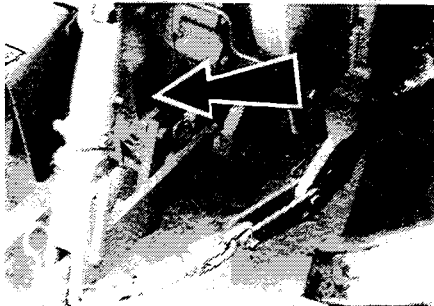
85/614

ENGINE SERIAL NUMBER



TA84/250

CAB SERIAL NUMBER



85/614

TRANSMISSION SERIAL NUMBER

Write the serial numbers of your machine in the spaces below.

TRACTOR MODEL NUMBER

PRODUCT IDENTIFICATION NUMBER

ENGINE SERIAL NUMBER

TRANSMISSION SERIAL NUMBER

MECHANICAL FRONT DRIVE AXLE SERIAL NUMBER

CAB SERIAL NUMBER

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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 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 and load characteristics of the machine before you start to operate.

The safety information given in this manual does not replace safety codes, insurance needs or national and local laws. Make sure your machine has the correct equipment required by 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 MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

Before Starting



CAUTION: *To help prevent personal injuries during tractor operation and maintenance, use safety shoes, a hard hat, safety glasses or goggles and good fitting clothing.*



CAUTION: *Provide a first aid kit for use in case of accident.*



CAUTION: *It is good practice to carry a fire extinguisher on the tractor. Be sure that the extinguisher is properly maintained and be familiar with its proper use*



CAUTION: *Check the machine for leaks or any parts that are broken, not working correctly, or not there at all. Before you start the machine, tighten all caps, dipsticks, battery covers, etc.*



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 PTO driven equipment.*



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: To help prevent injury:

BEFORE STARTING ENGINE - Put shields in place. Sit in the seat. Place controls in neutral.

BEFORE OPERATING MACHINE - Clear people away. No riders. Fasten seat belt.

WHEN OPERATING MACHINE - Keep away from power driven parts. Avoid steep slopes, embankments, ditches and rough terrain. Reduce speed when turning. In high speed travel, couple brake pedals together where applicable. On road travel, use flashing warning lights where permitted and keep SMV emblem visible from rear.

WHEN MACHINE IS STOPPED - Engage park lock or brake. Lower raised equipment to ground. Stop engine before dismounting to service or clear machine(s).

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 bystanders.



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



WARNING: Cab air filters remove dust in the air, but are not capable of removing chemicals used in spraying crops or in weed control. Many chemicals used for these purposes are toxic when improperly used, and can be hazardous to operators and others in the area. Follow the instructions of manufacturers of both the equipment and the chemicals regarding prohibitions against inhalation of dust or spray, personal hygiene practices, and other precautions noted by the manufacturers.



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



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.



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.



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



WARNING: Extra weight and bad traction conditions such as mud or ice increase your stopping distance. Remember that liquid in the tires, weights on the tractor or wheels, tanks filled with fertilizer, herbicides or insecticides - all these add weight and increase the distance you need in which to stop.



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



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: Do not drive on roads, or at high speed anywhere, with the differential lock engaged. Difficult steering will occur, and can result in an accident. In field operation, use the differential lock for traction improvement, but release for turning at row ends.



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.



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.



WARNING: Rear upset can result if pulling from wrong location on tractor. Hitch only to the drawbar. Use 3 point hitch only with the implements designed for its use - not as a drawbar.



WARNING: Securely fasten your seat belt if the tractor has a ROPS frame or cab. The seat belts can help insure your safety if they are 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.



CAUTION: Operate the tractor with the cab door closed to provide proper ROPS protection and to properly utilize the heating, ventilating or cooling systems.



WARNING: Stay off slopes too steep for safe operation. Shift down before you start up or down a hill with a heavy load. Avoid "free wheeling".



WARNING: Rotating machine parts, stay clear, keep shields installed to help protect from clothing entanglement and injury. Wear close-fitted clothing.



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, STOP the engine AND WAIT FOR THE DRIVEN MACHINE TO STOP.



WARNING: Whenever a PTO driven machine is in operation, the PTO guard must be in place for most operations to prevent injury to the operator or bystanders. Where attachments, such as pumps, are installed on the PTO shaft (especially if the tractor PTO guard is moved upward or removed) extended shielding equivalent to the PTO guard must be installed with the attachment. Install the PTO guard to its original position immediately, when the attachment is removed. When the PTO is not in use, the tubular guard must be installed over the end of the PTO shaft.



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



CAUTION: Installing an adapter on the PTO shaft, to convert the shaft diameter or to convert the number of splines on the shaft, moves the driveline connection rearward. This exposes the front universal joint and attaching mechanism. Adapters must not be installed unless the original master shield on the tractor is extended with equivalent shielding.
The use of an adapter is not recommended.



WARNING: The tractor may be fitted with 2 P.T.O. shafts. The upper shaft will have 6 splines and is designed for use at 540 RPM. The lower shaft will have 21 splines and is designed for use at 1000 RPM (except for compressor drive which has 6 splines). Do not exceed the recommended speeds of the driven machine. Do not operate the P.T.O. unless the shaft and drive line shields are in position and the tachometer is working correctly. Read and learn to understand the Operators Manuals supplied with any P.T.O. driven equipment which may be attached to the machine.




WARNING: When the P.T.O. is engaged, both shafts (if so equipped) will rotate, therefore the shaft not in use must be covered with the tubular guard. When the P.T.O. is not in use, both shafts (if so equipped) must be covered with tubular guards.




WARNING: If this tractor is equipped with 2 PTO shafts, be sure implements are matched for the proper drive speed. Center and lock drawbar when using PTO.

WARNING: To prevent personal injury due to PTO driven machine shaft bottoming or separating, drawbar must be properly positioned in pivot bracket.




| PTO Shaft | PTO Shaft End To Hitch Pin Hole |
|--|---------------------------------|
| 540 RPM 6 Spline | 14.00 inch (356 mm) |
| 1000 RPM 21 Spline (if equipped) | 16.00 inch (406 mm) |


WARNING: Tractors equipped with Mechanical Front Drive (M.F.D.) have increased traction and can climb steeper slopes. Stay off slopes too steep for safe operation. To prevent rear overturns, back up steeper slopes.




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




CAUTION: Make sure that the rim bolts, hub bolts or nuts, or hub clamp bolts are tightened to specifications. Check these torques after the first 10 hours and thereafter every 50 hours of operation until torques remain constant.




WARNING: Lower or block hydraulically or mechanically elevated implements and other attachments before servicing or when leaving the equipment.




CAUTION: When remote cylinders are connected to the hydraulic system, cycle the control lever about three times to remove air from the cylinder and hoses. With air in the system raised equipment can drop accidentally and cause personal injury or machine damage.




CAUTION: The implement should be lowered to the ground before uncoupling of the remote hydraulic hoses.



WARNING: Contact with overhead power lines can cause severe electrical burns or death from electrocution. Make sure there is enough clearance between raised equipment and overhead power lines.



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



Service



CAUTION: *Never use gasoline, naphtha or any other volatile material for any cleaning purposes. These materials may be toxic and/or flammable.*



CAUTION: *Never refuel the tractor when the engine is hot or running.*



CAUTION: *Never smoke while refuelling the tractor, servicing the fuel system, checking the batteries or using cold weather starting aids.*



WARNING: *Check and service cooling system according to maintenance instructions. Hot coolant can spray out if radiator cap is removed. To remove radiator cap, let system cool, turn to first notch, then wait until all pressure is released. Scalding can result from fast removal of radiator cap.*



WARNING: *Never operate the engine in a closed building. Proper ventilation is required under all circumstances.*



WARNING: *When working around storage batteries, remember that all of the exposed metal parts are "live". Never lay a metal object across the terminals because a spark or short circuit may result.*



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.*



WARNING: *Battery explosion and/or damage to electrical components can result from improper connection of booster batteries or charger. Connect positive to positive and negative to negative. Externally, battery acid can cause burns and blindness, and taken internally is poison.*



WARNING: *Unless instructed otherwise never service or make adjustments to the machine with the engine running. Before making adjustments, put the shift control lever in Neutral and set the park brake OR put the shift control lever in park position as equipped.*



WARNING: *Extreme care must be exercised when adjusting and checking hitch and control linkage when the engine is running and when linkage is under hydraulic or mechanical load. Study the linkage and hitch travel. Keep the hands, arms, legs and feet out of the travel arc of the hitch and linkage.*



WARNING: *Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury.
To prevent Personal injury:
Relieve all pressure, before disconnecting lines. Before applying pressure, make sure all connections are tight and components are in good condition. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.*



WARNING: *Rotating fan and belts. Contact can injure. Keep clear.*



WARNING: *Replace fan if it has been bent, modified, or damaged in any way. Stop and make corrections if fan strikes any part of the tractor.*



WARNING: *Incorrect positioning of adjustable length drawbar can cause implement driveline separation or bottoming.
See tractor and implement Operators Manuals for dimension from end of tractor PTO shaft to hitch pin hole in drawbar. Driveline separation or bottoming can cause machine damage or personal injury.*



WARNING: *Do not remove, install or make repairs to a tractor tire on a rim. Take the tire and rim to a tire shop where persons with special training and special safety tools are available. If the tire is not in correct position on the rim, or if too full of air, the tire bead can loosen on one side and cause air to leak at high speed and with large force. Because the air leak can thrust the tire in any direction, and with much force, you will be in danger of injury.*

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