

9170, 9180
Tractor
Operators Manual

9-12630

Reprinted

CASE 



This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.

SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.



IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

1. READ THE OPERATOR'S MANUAL.
2. READ ALL SAFETY DECALS ON THE MACHINE.
3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

NOTICE:

Because of design changes that may occur in the product since this manual was published, it is possible that some pictures and/or illustrations found within this manual may be different from those found on the product; however, the technical information found within this manual was correct at the time this manual was approved for publication.

The J I Case Company reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

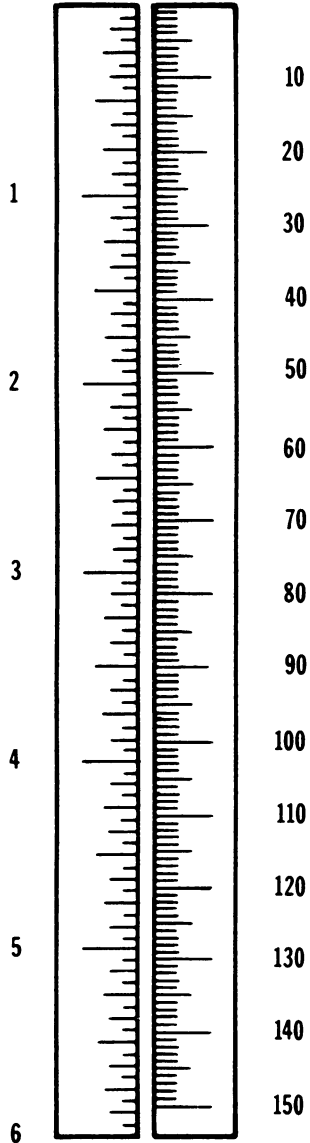
If any information contained in this publication is not understood the user should contact his dealer for assistance.

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METRIC (SI) MEASUREMENTS

INCHES MILLIMETRE



English Unit

Metric Equivalent (SI)

Area

1 square inch 6.45 cm² - square centimetre
1 acre 0.405 ha - hectare

Force

1 pound (force) 4.45 N - newton

Length

1 foot 304.8 mm - millimetre, 30.5 cm - centimetre, 0.305 m - metre
1 inch 25.4 mm - millimetre, 2.54 cm - centimetre
1 mile 1609 m - metre, 1.61 km - kilometre

1 pound 0.454 kg - kilogram

Power

1 horsepower 0.746 kW - Kilowatt

Pressure

1 psi 6.89 kPa - kilopascal, 0.00689 MPa - megapascal

Temperature

1 degree Fahrenheit $(t - 32) \div 1.8$ °C - degree Celsius

Torque

1 lb (force) - ft 1.356 N m





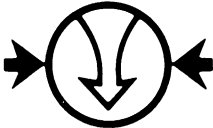








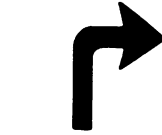

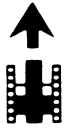
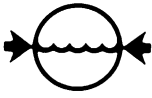
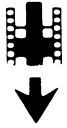
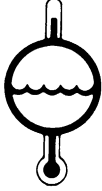
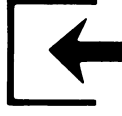


Velocity

1 mile per hour 1.61 km/h - kilometre per hour

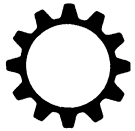
Volume

1 bushel 0.035 m³ - cubic metre
1 gallon (US) 3.79 L - litre
1 quart (US) 0.946 L - litre

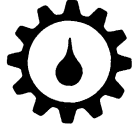
INTERNATIONAL SYMBOLS

	FUEL PRESSURE		BRAKE – EMERGENCY
	FUEL SHUTOFF		AMMETER OR ALTERNATOR
	AIR PRESSURE		OIL PRESSURE
	AIR FILTER		LEVER – MOVEMENT
	OUTSIDE AIR CIRCULATION		STEERING
	ON		TURN – LEFT
	OFF		TURN – RIGHT
	COOLANT LEVEL		TRACTOR – FORWARD
	COOLANT PRESSURE		TRACTOR – REVERSE
	COOLANT TEMPERATURE		ENGAGE
	BRAKE		DISENGAGE

INTERNATIONAL SYMBOLS



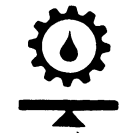
TRANSMISSION OR
CONVERTER



TRANSMISSION OR
CONVERTER OIL



TRANSMISSION OR
CONVERTER OIL FILTER



TRANSMISSION OR
CONVERTER OIL LEVEL



TRANSMISSION OR
CONVERTER OIL
PRESSURE



TRANSMISSION OR
CONVERTER OIL
TEMPERATURE



TRANSMISSION DRIVE
OIL LEVEL



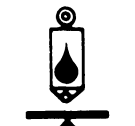
TRANSMISSION DRIVE
OIL TEMPERATURE



TRANSMISSION
CONTROL OIL PRESSURE



HYDRAULIC OIL
FILTER



HYDRAULIC OIL
LEVEL



HYDRAULIC OIL
TEMPERATURE



ENGINE OIL



ENGINE OIL
FILTER



ENGINE OIL
LEVEL



ENGINE OIL
PRESSURE



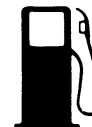
ENGINE – HEAT



ENGINE – START OR
RUNNING



ENGINE – STOP OR
NOT RUNNING



FUEL TANK



FUEL FILTER



FUEL LEVEL

INTERNATIONAL SYMBOLS



HOURS



**WINDSHIELD
WIPER CONTROL**



**WINDSHIELD
WASHER CONTROL**



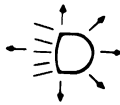
HORN CONTROL



COOLER CONTROL



HEATER CONTROL



LIGHT - ALL



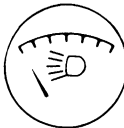
LIGHT - BRIGHT



LIGHT - DIM



LIGHT - PARK



LIGHT - INSTRUMENT



FAST



SLOW

To The Owner/Operator

DO NOT use or operate this tractor until this manual has been read and understood.

Foreword

This manual has been compiled to assist the owner and/or operator with the correct operation, service and routine preventive maintenance procedures of the Case IH tractor.

This manual has been designed into eight major sections: Foreword, Safety, Specifications, Instruments and Controls, Operating Instructions, Service and Maintenance, Troubleshooting and Index. A general contents page is located at the beginning of the manual for a quick reference to the major sections. For a specific item, there is an alphabetical index placed in the rear of the manual.

Throughout the manual references are made to left side and right side. These terms are used as viewed from the operator's seat facing the front of the tractor.

In order to get the optimum performance and efficiency that has been designed into the tractor, read this manual thoroughly before operating or servicing the tractor. Become familiar with all decals and safety messages within the manual and on the tractor. Keep this manual in a convenient place for easy reference when problems arise. **Do Not** attempt to make repairs or adjustments you do not understand. If you require additional information or service, contact your dealer.

The signal words **CAUTION**, **WARNING** or **DANGER** are used to indicate degree of hazards and to warn against unsafe practices that may cause personal injury and are used with appropriate safety instructions. These signal words are not to be ignored, your safety is involved.



CAUTION: denotes a general reminder of good safety practices or directs attention to unsafe practices.



WARNING: denotes a hazard intermediate between **DANGER** and **CAUTION**.



DANGER: denotes the most serious hazard.

The word **NOTE**, is used to convey information that is out of context with the manual text; special information such as specifications, techniques, reference information and other information of a supplementary nature.

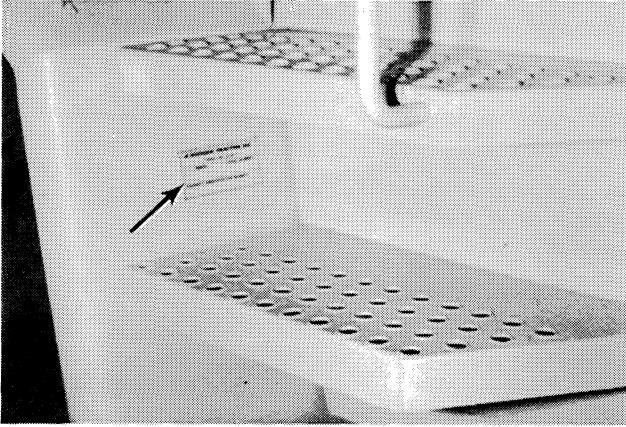
The word **IMPORTANT**, is used in the text when immediate damage will occur to the machine due to improper technique or operation. **IMPORTANT** will apply to the same information as specified by **NOTE**, only of an immediate and urgent nature.

It is the responsibility of the user to read the Operator's Manual and comply with the operating instructions, service and maintenance guide-lines set forth in the manual.

The user is responsible for inspecting the machine daily, and for having parts replaced or repaired when continued use of the product would cause damage or excessive wear to other parts.

NOTE: *Setting fuel delivery above factory specifications or otherwise overpowering the tractor will void the warranty.*

Foreword



Steiger Model Designations

The Panther/Lion 1000 Powershift Series Tractors are available with a selection of either "Caterpillar" or "Cummins" engines.

It is important to know the Product Identification Number (P.I.N.) and the tractor serial number. This information should be recorded in the space provided on page 111 of this manual. Use the information in all correspondence when referring to the tractor. For your convenience there is a service and maintenance chart printed on this page also.

New Machine Maintenance Requirements

The new tractor "break-in" period requires some maintenance intervals to differ from the normal scheduled maintenance requirements.

These maintenance procedures are necessary in order to flush out any contamination or other particles that may accumulate in these systems during the "wear-in" process, which cannot be done during the machine process.

Engine: After the first 50 hours of operation, the engine crankcase oil must be drained and replaced with new oil of the specified type and engine oil filters require replacement.

Axles: After the first 100 hours of operation, the axle(s) lube oil must be drained and replaced with new oil of the specified type.

Hydraulic System: After the first 50 hours of operation, replace all hydraulic system filters.

Transmission: After the first 50 hours of operation, remove and replace filter.

NOTE: *We do not endorse specific brands of lubricants. We consider it the obligation of the supplier to assure that all lube oils meet the applicable specifications. See the "Specifications" section of this manual for fluid capacities and specifications.*

CB or Business Band Radio Installation

When or if it becomes necessary to install a "CB" or Business Band radio in this tractor, certain precautions must be followed in order to prevent frequency (noise) interference in the Electronic Control Center. Once the location for the radio is determined (we recommend mounting the radio vertically on the front face of the left rear tool compartment), **routing of the antenna lead becomes critical. It is of the utmost importance that the antenna be a self-grounding type and that the coaxial cable not be routed along or tied to any wiring harness. The coaxial cable must be kept as far away from the wiring harness as possible. Any excess coaxial cable must not be coiled up, it must be cut to length.** If radio installation becomes necessary contact your dealer to obtain specific instructions.

Towing Tractor

The tractor **cannot** be towed to start the engine. Even though the transmission output shaft would be turning, the transmission oil pump would not. In this situation the transmission could not be pressurized or lubricated and severe transmission damage will result.

If a problem should arise requiring repairs that cannot be done in the field, it is required that this tractor be transported on another vehicle and not be towed.



DANGER: Do not pull with elastic tow ropes. Elastic tow rope stores energy. SUDDEN RELEASE MAY CAUSE INJURY OR DEATH.

Foreword

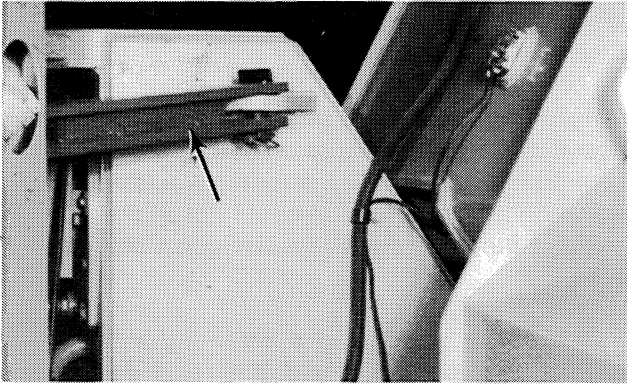


Figure A: Retainer in Lock Position

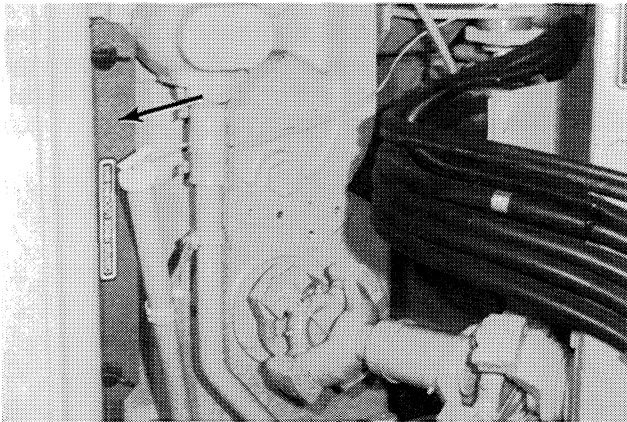


Figure B: Retainer in Storage Position

Frame Articulation Retainer

Whenever lifting or transporting of the tractor on another vehicle is required, the frame articulation retainer **must** be installed.

WARNING: Install locking bar between front and rear frames - (See Fig. A)



1. Before service work is done near center of tractor
2. Before lifting or transporting the tractor on another vehicle
3. Before operating stationary PTO equipment

Before operating the tractor when steering is required, be sure locking bar is removed and secured in the storage position (See Fig. B).

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