# 2120/2130/2140
# 2150 Tractors

## Operators Manual

**9-13270**

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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# 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***




2120 VERSION

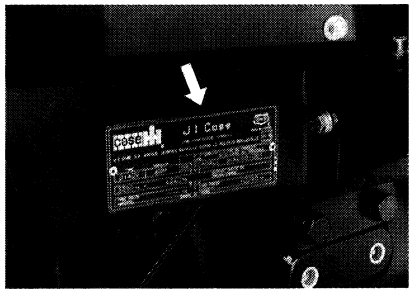
**NOTE:** *Where right hand and left hand of the tractor are used in this manual, these are the same as your right hand and left hand, when you are in the seat looking forward.*



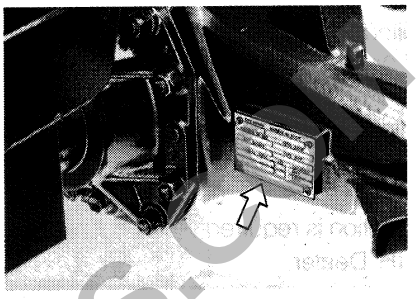
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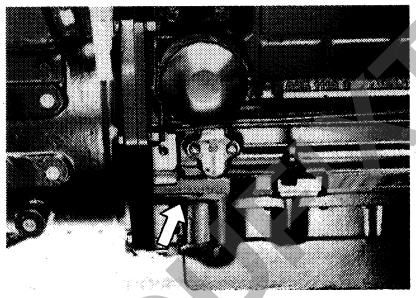
# SERIAL NUMBER LOCATION



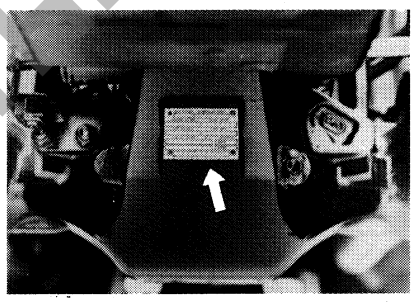
MODEL AND PRODUCT IDENTIFICATION NUMBER PLATE



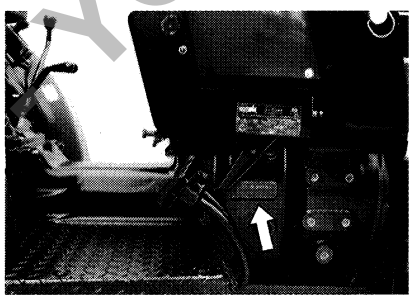
MFD AXLE SERIAL NUMBER PLATE (E MODELS)



ENGINE SERIAL NUMBER



MFD AXLE SERIAL NUMBER PLATE (V MODELS)



TRANSMISSION SERIAL NUMBER

For ready reference 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 .....



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## APPROXIMATE TRACTOR SPEEDS

At Maximum Engine Speed of 2350 r/min with
12 + 12 Transmission

| RANGE | | GEAR | REAR TIRE 9.5-28 CIRCUM-FERENCE 3424 mm | REAR TIRE 11.2-28 CIRCUM-FERENCE 3549 mm | REAR TIRE 12.4-28 CIRCUM-FERENCE 3707 mm | REAR TIRE 13.6-28 CIRCUM-FERENCE 3832 mm | REAR TIRE 14.9-28 CIRCUM-FERENCE 4021 mm |
|---|---|---|---|---|---|---|---|
| II I / III | | 1 3 / 2 4 | Km/h | Km/h | Km/h | Km/h | Km/h |
| FORWARD | I | 1 | 1,32 | 1,37 | 1,43 | 1,48 | 1,55 |
| | | 2 | 2,02 | 2,10 | 2,19 | 2,26 | 2.37 |
| | | 3 | 3,13 | 3,24 | 3,38 | 3,50 | 3,67 |
| | | 4 | 4,71 | 4,88 | 5,10 | 5,27 | 5,53 |
| | II | 1 | 2,56 | 2,63 | 2,77 | 2,86 | 3,01 |
| | | 2 | 3,91 | 4,05 | 4,23 | 4,37 | 4,59 |
| | | 3 | 6,05 | 6,27 | 6,55 | 6,77 | 7,10 |
| | | 4 | 9,11 | 9,44 | 9,86 | 10,19 | 10,69 |
| | III | 1 | 7,33 | 7,59 | 7,93 | 8,20 | 8,60 |
| | | 2 | 11,19 | 11,60 | 12,11 | 12,53 | 13,14 |
| | | 3 | 17,32 | 17,95 | 18,75 | 19,38 | 20,34 |
| | | 4 | 26,07 | 27,03 | 28,23 | 29,18 | 30,62 |
| REVERSE | I | 1 | 1,11 | 1,15 | 1,20 | 1,24 | 1,30 |
| | | 2 | 1,70 | 1,76 | 1,84 | 1,90 | 1,99 |
| | | 3 | 2,63 | 2,72 | 2,84 | 2,94 | 3,08 |
| | | 4 | 3,95 | 4,10 | 4,28 | 4,42 | 4,64 |
| | II | 1 | 2,22 | 2,30 | 2,41 | 2,49 | 2,61 |
| | | 2 | 3,28 | 3,40 | 3,55 | 3,67 | 3,85 |
| | | 3 | 5,07 | 5,26 | 5,49 | 5,67 | 5,96 |
| | | 4 | 7,64 | 7,92 | 8,27 | 8,55 | 8,97 |
| | III | 1 | 6,15 | 6,37 | 6,65 | 6,88 | 7,22 |
| | | 2 | 9,38 | 9,73 | 10,16 | 10,50 | 11,02 |
| | | 3 | 14,52 | 15,05 | 15,72 | 16,25 | 17,06 |
| | | 4 | 21,87 | 22,67 | 23,68 | 24,47 | 25,68 |



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## APPROXIMATE TRACTOR SPEEDS
## At Maximum Engine Speed of 2350 r/min with 12 + 12 Transmission

| RANGE | | GEAR | REAR TIRE 11.2-24 CIRCUM-FERENCE 3236 mm | REAR TIRE 12.4-24 CIRCUM-FERENCE 3393 mm | REAR TIRE 13.6-24 CIRCUM-FERENCE 3518 mm | REAR TIRE 14.9-24 CIRCUM-FERENCE 3707 mm | REAR TIRE 16.9-24 CIRCUM-FERENCE 3895 mm |
|---|---|---|---|---|---|---|---|
| II I / III | | 1 3 / 2 4 | Km/h | Km/h | Km/h | Km/h | Km/h |
| FORWARD | I | 1 | 1,25 | 1,31 | 1,36 | 1,43 | 1,51 |
| | | 2 | 2,91 | 2,00 | 2,08 | 2,19 | 2.30 |
| | | 3 | 3,96 | 3,10 | 3,21 | 3,39 | 3,56 |
| | | 4 | 4,45 | 4,67 | 4,84 | 5,10 | 5,36 |
| | II | 1 | 2,42 | 2,54 | 2,63 | 2,77 | 2,91 |
| | | 2 | 3,69 | 3,87 | 4,01 | 4,23 | 4,44 |
| | | 3 | 5,72 | 6,00 | 6,23 | 6,56 | 6,89 |
| | | 4 | 8,61 | 9,02 | 9,36 | 9,86 | 10,36 |
| | III | 1 | 6,92 | 7,26 | 7,53 | 7,93 | 8,33 |
| | | 2 | 10,57 | 11,09 | 11,49 | 12,11 | 12,73 |
| | | 3 | 16,37 | 17,16 | 17,79 | 18,75 | 19,70 |
| | | 4 | 24,64 | 25,84 | 26,79 | 28,23 | 29,66 |
| REVERSE | I | 1 | 1,05 | 1,10 | 1,14 | 1,20 | 1,26 |
| | | 2 | 1,60 | 1,68 | 1,74 | 1,84 | 1,93 |
| | | 3 | 2,48 | 2,60 | 2,70 | 2,84 | 2,98 |
| | | 4 | 3,73 | 3,91 | 4,06 | 4,28 | 4,49 |
| | II | 1 | 2,10 | 2,20 | 2,28 | 2,41 | 2,53 |
| | | 2 | 3,10 | 3,25 | 3,366 | 3,55 | 3,73 |
| | | 3 | 5,79 | 5,03 | 5,21 | 5,49 | 5,77 |
| | | 4 | 7,22 | 7,57 | 7,85 | 8,27 | 8,69 |
| | III | 1 | 5,81 | 6,09 | 6,31 | 6,65 | 6,99 |
| | | 2 | 8,87 | 9,307 | 9,64 | 10,16 | 10,67 |
| | | 3 | 13,73 | 14,39 | 14,92 | 15,72 | 16,52 |
| | | 4 | 20,67 | 21,67 | 22,47 | 23,68 | 24,88 |



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## Maximum Tire Pressures and Loads For Speeds Up to 30 km/h

| FRONT TIRES | PLY | MAXIUMUM PRESSURE (bar) | MAXIMUM LOAD PER TIRE (kg) |
|---|---|---|---|
| 5.50-15 | 6PR | 4,2 | 465 |
| 5.50-16 | 6PR | 3,7 | 525 |
| 6.00-16 | 6PR | 3,3 | 560 |
| 6.50-16 | 4PR | 3,1 | 615 |
| 6.50 R16 | 4PR | — | — |
| 7.50-16 | 4PR | 2,0 | 605 |
| 7.50 R16 | 4PR | — | — |
| 7.50 R16 | 6PR | 2,4 | 680 |
| 7.50-18 | 4PR | 2,0 | 655 |
| 7.50 R18 | 6PR | 2,4 | 715 |
| 8.25-16 | 4PR | 1,6 | 855 |
| 10.5-18 | 6PR | 2,5 | 1360 |

| REAR TIRES | PLY | MAXIUMUM PRESSURE (bar) | MAXIMUM LOAD PER TIRE (kg) |
|---|---|---|---|
| 9.5 R28 | 6PR | 1,6 | 1102 |
| 11.2 R24 | 6PR | 1,6 | 1262 |
| 11.2 R28 | 6PR | 1,6 | 1340 |
| 12.4 R24 | 6PR | 1,6 | 1455 |
| 12.4 R28 | 6PR | 1,6 | 1555 |
| 13.6 R24 | 6PR | 1,6 | 1550 |
| 13.6 R28 | 6PR | 1,6 | 1660 |
| 14.9 R24 | 6PR | 1,6 | 1820 |
| 14.9 R28 | 6PR | 1,6 | 1926 |
| 16.9 R24 | 8PR | 1,6 | 2040 |

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# OPERATION

## Run-In Procedure

During the first 50 working hours you must follow the instructions below:

- It is not necessary for the engine to be run in gently; it can be used immediately at full power (but without overloading) as soon as the working temperature has been reached;
- in cold weather, let the engine run at low idle speed for a few minutes after starting;
- the engine must never be permitted to idle for long periods; reduce the times in which the engine idles or works without load;
- after several hours of continuous operation, let the engine idle for a few minutes before switching off.

## ENGINE OIL

Change the engine oil after the first 50 hours of operation. Remove the oil while the engine is hot. Install new oil of the correct grade as given on the Lubrication Chart. Refer to ENGINE OIL CHANGE in this manual.

## ENGINE OIL FILTER

After the first 50 hours of operation, change the engine oil filter. Refer to ENGINE OIL FILTER in this manual.

## TRANSMISSION/HYDRAULIC FILTER

After the first 50 hours of operation, change the transmission and hydraulic oil filter. Refer to transmission/hydraulic oil filter in this manual.

## WHEEL NUTS AND BOLTS

After the first 10 hours of operation, check the wheel nuts and bolts. Tighten all nuts and bolts to the torque given in the WHEEL TREAD POSITIONS section of this manual. Check the torque every 50 hours until torque remains constant.

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# OPERATION
## Ballasting (Cont'd)
## FILLING THE TIRES

Jack up one side of the tractor and turn the wheel so that the valve is at the t
Remove the valve core and screw the adaptor onto the valve. Connect a hose
the adapter and fill either by gravity, from a tank at least 1.5 metres above the whe
or by pressure using a hand pump.

When enough water has been added, remove the hose and adaptor. Install the va
core and inflate the tire to the correct pressure.

EXAMPLE OF WATER BALLASTING

| TIRE SIZE | APPROXIMATE WATER QUANTITY |
|---|---|
| 6.50 - 16 | 25 kg |
| 7.50 - 16 | 32 kg |
| 7.50 - 18 | 34 kg |
| 10.50 - 18 | 65 kg |

**NOTE:** *If the tractor is equipped with a front loader do not use front ballast. U*
*a counterweight on the rear three point linkage to balance the front loader.*

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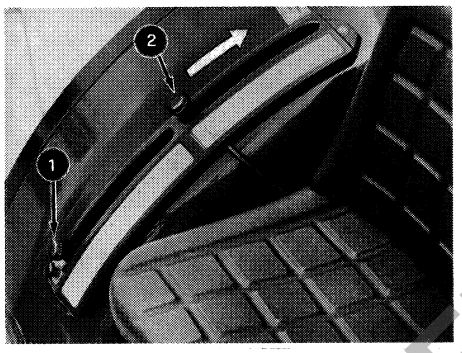
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## Hydraulic System Controls (Cont'd)

### Draft Control

This controls the operating depth of an implement and keeps a near constant load on the tractor.

## SETTING DRAFT CONTROL




Reaching Draft Position

To set draft control do as follows:

1. Move the position lever (1) fully forward.
2. Move the draft lever (2) fully forward.
3. With the tractor moving forward, move the draft lever (2) slowly rearward until the implement is in the required position.

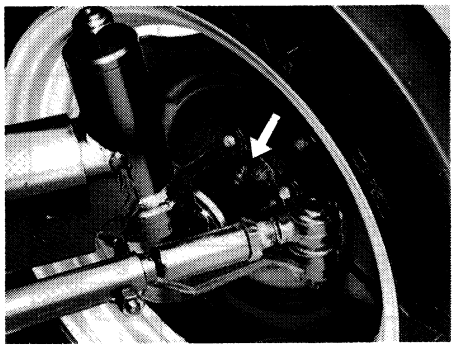
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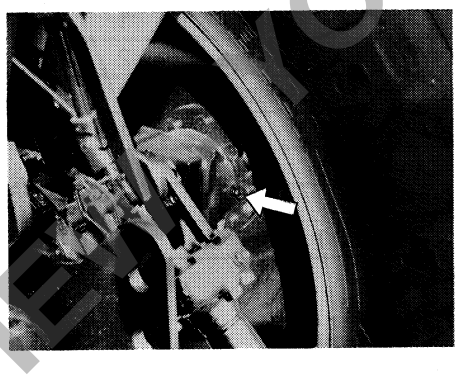
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## Grease Points (Cond't)

Lubrication interval ..... Every 150 hours



Front Wheel Hub 2WD



Wheel Shaft Bearing
(Narrow Models) Rear

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