

1370 Tractor

Operators Manual

9-3022

Reprinted





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.

TO THE PURCHASER OF A CASE TRACTOR

The care you give your Case Tractor will greatly determine the satisfaction and service you will obtain from it. Use this manual as your guide. By observing the instructions and suggestions in this manual, your Case Tractor will serve you well for many years.

As an Authorized Case Dealer, we stock Genuine Case Parts, which are manufactured with the same precision and skill as the original equipment. Our factory trained staff is kept well informed on the best methods of servicing Case equipment and is ready and able to help you.

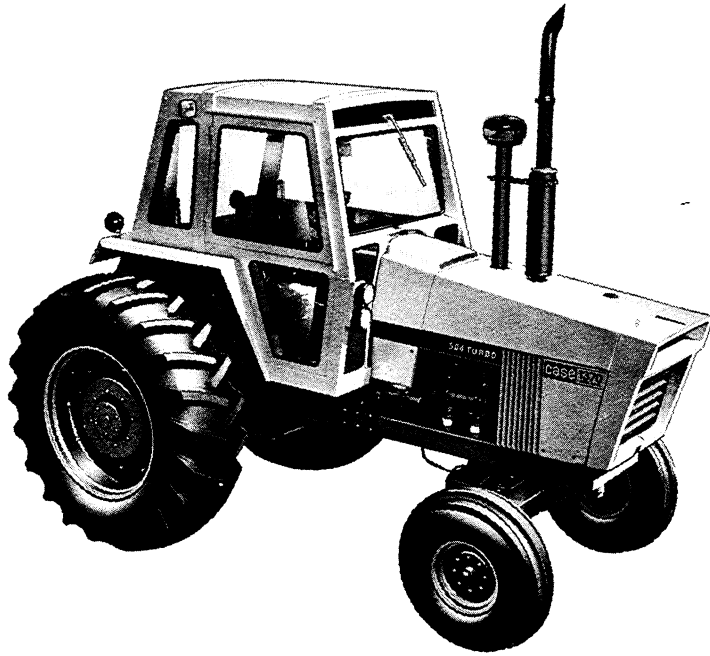
Should you require additional aid or information, contact us.

Your Authorized Case Dealer



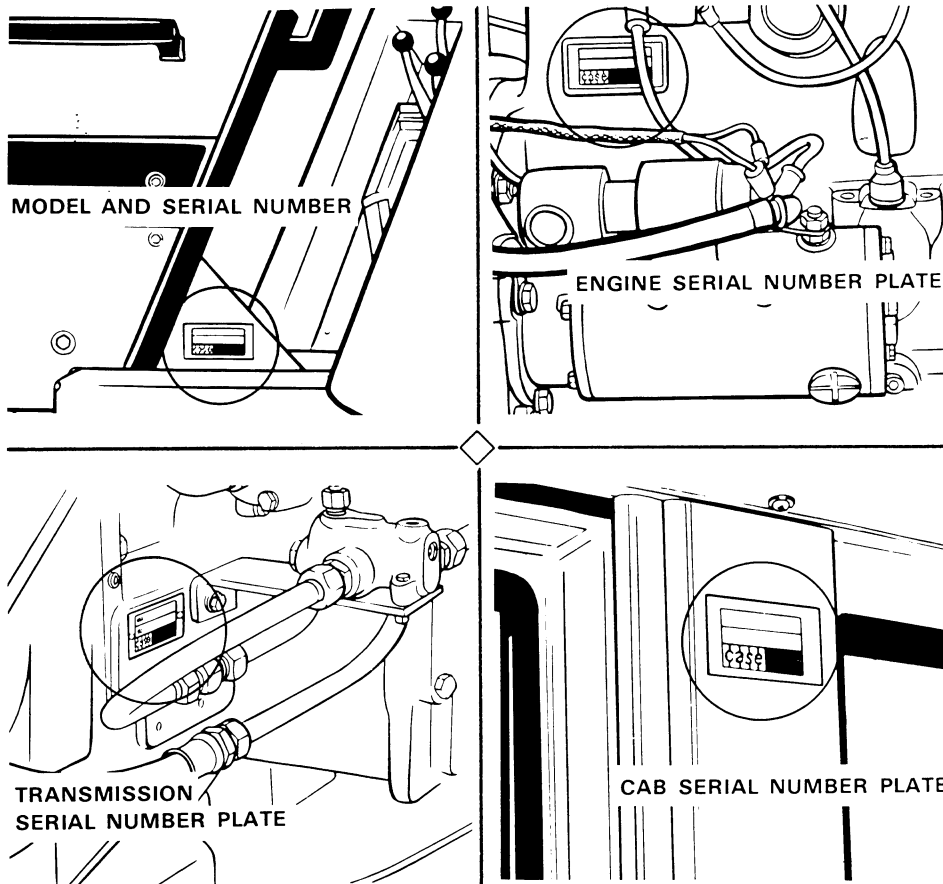
**LOOK FOR THIS SYMBOL TO POINT
OUT IMPORTANT SAFETY PRECAUTIONS.
IT MEANS - ATTENTION! BECOME ALERT!
YOUR SAFETY IS INVOLVED.**

**TO INSURE EFFICIENT AND PROMPT SERVICE, PLEASE
FURNISH US WITH THE MODEL, SERIAL, ENGINE, TRANS-
MISSION AND CAB SERIAL NUMBERS OF YOUR TRACTOR
IN ALL CORRESPONDENCE OR CONTACTS.**



SERIAL NUMBER

When ordering parts from your Authorized Case Dealer and in all contacts or correspondence with your dealer, relative to your Case Tractor, always specify the Model, Tractor Serial Number, Engine and Transmission Serial Numbers.



NOTE: The terms "Right Hand" and "Left Hand" whenever used in this manual, apply to the tractor when facing in the direction the tractor will move in forward operation.

For reference, fill in the Serial Numbers of your tractor in the spaces provided below.

Model Designation _____
Tractor Serial Number _____
Engine Serial Number _____
Transmission Serial Number _____
Cab Serial Number _____

Diesel Engine

SPECIFICATIONS

General

Type	6 Cylinder, 4 Stroke Cycle, Valve-In-Head Turbocharged Diesel Engine
Firing Order	1-5-3-6-2-4
Bore	4-5/8 Inches (117.5mm)
Stroke	5 Inches (127mm)
Piston Displacement	504 Cubic Inches (8 257cm ³)
Compression Ratio	16.5 to 1
Cylinder Sleeves	Removable Wet Type
No Load Governed Speed	2240-2280 RPM
Rated Engine Speed	2100 RPM
Engine Idling Speed	750 RPM
*Valve Tappet Clearance (Exhaust)	(Hot) .020 Inch (0.508mm) (Cold) .025 Inch (0.635mm)
	(Intake) (Hot and Cold) .015 Inch (0.381mm)

*Hot Settings Are Made After The Engine Has Operated At Thermostat Controlled Temperature For At Least Fifteen Minutes.

Piston and Connecting Rod

Rings per Piston	3
Number of Compression Rings	2
Number of Oil Rings	1
Type Pins	Full Floating Type
Type Bearings	Replaceable Precision, Steel Back with Aluminum or Copper-Lead Alloy Liners.

Main Bearings

Number of Bearings	7
Type Bearings	Replaceable Precision, Steel Back with Aluminum or Copper-Lead Alloy Liners.

Engine Lubrication System

Oil Pressure 45 to 60 PSI (3.2 to 4.2 kg/cm²) with
Engine Warm and Operating at Rated Engine Speed.
Type System Pressure and Spray Circulation
Oil Pump Gear Type
Oil Filter (2) Full Flow Spin on Type
Oil Capacity With Filters, 17 U.S. Qts. (16.1 liters)
Without Filters, 15 U.S. Qts. (14.2 liters)

Fuel System

Fuel Injection Pump Robert Bosch, Type PES
(Multiple Plunger.).
Pump Timing 30 Degrees Before Top Dead
Center (Port Closing).
Fuel Injectors Pencil Type
(Opening Pressure 3200 PSI). (225 kg/cm²)
Fuel Transfer Pump Plunger Type, Integral Part of
Injection Pump.
Governor Variable Speed, Fly-Weight Centrifugal
Type; Integral Parts of Injection Pump.
1st Stage fuel filter Full Flow Spin on Type
2nd Stage fuel filter Full Flow Spin on Type
Fuel Tank Water Trap and Drain Located in Base
of Fuel Tank.
Fuel Tank Capacity 80 U.S. Gallons (302.8 liters)
Fuel Level Gauge Electric, Located on Instrument Panel.
Hand Primer Pump Located on Top of the
Fuel Transfer Pump.
Fuel Tank Fuel Filter Located in Fuel Shut-Off
Valve in Base of Fuel Tank
Preliminary Fuel Filter Located At The Bottom
Of The Fuel Transfer Pump.

general specifications

Cooling System

Capacity of System	42 U.S. Quarts (39.7 liters)
Type of System	Pressurized, Thermostat Controlled By-Pass Type: Forced Circulation, (Impeller Type Pump).
Radiator	Heavy Duty Fin and Tube Type
Thermostat (2)	Starts to Open at Approximately 175°F. (79°C.), Fully Open at 202°F. (94°C.)
Pressure Cap Required	(w/o Cab Air Conditioner) 7 PSI (0.492 kg/cm ²)
Pressure Cap Required	(w/Cab Air Conditioner) 14 PSI (0.984 kg/cm ²).

When using a proper operating 7 PSI (0.492 kg/cm²) radiator pressure cap, the engine temperature can safely rise to 230°F. (110°C.), with a 14 PSI (0.984 kg/cm²) pressure cap the engine temperature can safely rise to 250°F. (121°C.).

Electrical System

Type of System	12 Volt Negative Ground
Batteries	(2) 12 Volt Batteries Connected in parallel Group Size 30H, Rated in 1.255 to 1.265 Specific Gravity. Discharge Rate 300 Amps at 0°F. Voltage Drops to 9.2 after 10 seconds. Voltage drops 1.0 Volt per cell after 4 min.
Alternator	12 Volt 55 Amp Output, Negative Ground
Voltage Regulator	12 Volt, Solid State, Mounted on Alternator.
Starter Motor	12 Volt with Solenoid Switch
Head Lights (2)	12 Volt, 40/40 Watt Sealed High-Low Beam
Front Flood Lights (2) (optional)	12 Volt, 35 Watt Sealed Beam
R. Rear Flood Light (1) (optional) ...	12 Volt, 60 Watt, Sealed Beam
Amber Warning Lights (2)	12 Volt, Double Face, Flasher Type
L. Rear Flood and Tail Light (1)	12 Volt, 60 Watt Sealed Beam Combination Tail and Flood Lamp.
Circuit Breaker System over Load Check	12 Volt Twin 40 AMP Breakers connected in parallel, 80 AMP rating. 60 Amp. Min. Continuous capacity.
Lights Circuit Breaker	40 Amp., Located on Light Switch
Parking Brake Warning Light	12 Volt, Red Flasher Type

Parking Brake

Type Rod Actuated by Orschein
Type Handle - Adjustable from
Operator's Seat. Double Wrap
Steel Band on Differential.

Hydraulic Power Assist Brakes

Type Hydraulic, Power Assisted,
Self-Adjusting Multiple Plate
Wet Type Differential Brakes.

Power Shift Transmission

Type 3 Speed Compound Planetary
With Hydraulically Actuated Clutches
and a 4 Speed Gear Range Section.

Gear Selection 12 Speeds Forward and 3 Speeds Reverse.

Shifting Hydraulic Power Shifting Controlled
By a Lever on Operator's Console.
4 Speed Range Controlled by a
Mechanical Shifter From a Lever
on Operator's Console.

Differential Lock

Type Hydraulically Actuated, Operated
by Operator's Foot Pedal.

Hydrostatic Power Steering

Dual Pump Type (8 gal. Section) Direct Drive Gear Type

Pump Capacity at 2000 Engine RPM 8 GPM (30.3 l/mn)

HGA Hydrostatic Type Integral and Bi-Directional
Gerotor Metering Section, Actuated
By the Steering Wheel.

Steering Cylinders Two Double Acting Cylinders

Draft-O-Matic System

Type of Sensing Lower Link

Type Control Hand Lever

Type Valve 3 Positions - Raise - Hold - Lower

Type Draft Arms Rigid Swinging, with
Manual Float Adjustment

Type Hitch 3 Point Category III

Remote Hydraulic System

Dual Pump (20 gal. Section) Direct Drive Gear Type
Type Remote Valve (R.H. Side) Dual Valve-Individual
Hand Lever Control
Portable Cylinder Couplings (R.H. Side) Quick Detachable
Break-away Type.
Pump Capacity at 2000 Engine RPM 20 GPM (75.7 l/mn)
Relief Valve Pressure 1900 to 2050 PSI
(133.6 to 144.1 kg/cm²)
Portable Cylinders Available

Variable Flow Remote Hydraulic System

Single Pump Gear Type. Direct Drive
Type Remote Valve (L.H. Side) Dual Valve-Individual
Hand Lever Control.
Pump Capacity at 2000 Engine RPM 20 GPM (75.7 l/mn)
Relief Valve Pressure 1900 to 2050 PSI
(133.6 to 144.1 kg/cm²)
Variable Flow Control Valve Hand Operated from
Console-Minimum 5 GPM (19 l/mn)
to Maximum 20 GPM (75.7 l/mn).
Portable Cylinder Couplings (L.H. Side) Quick Detachable
Break-away Type.
Portable Cylinders Available; 3-1/4 in. (82.6mm) or
4 in. (101.6mm) x 8 in. (203.2mm).

Power Take-Off

Type Clutch Hydraulically Operated
Rotation Clockwise
Spline Size 21 Splines 1-3/8 in. (34.9mm) Dia.
Engine Speed 2000 RPM 1000 RPM Shaft Speed

Drawbar

Standard or Yoke Type Full Swinging Roller Mounted,
Will Accommodate a 1-1/2 Inch (38.1mm) Dia. Pin.

OPERATOR'S CAB

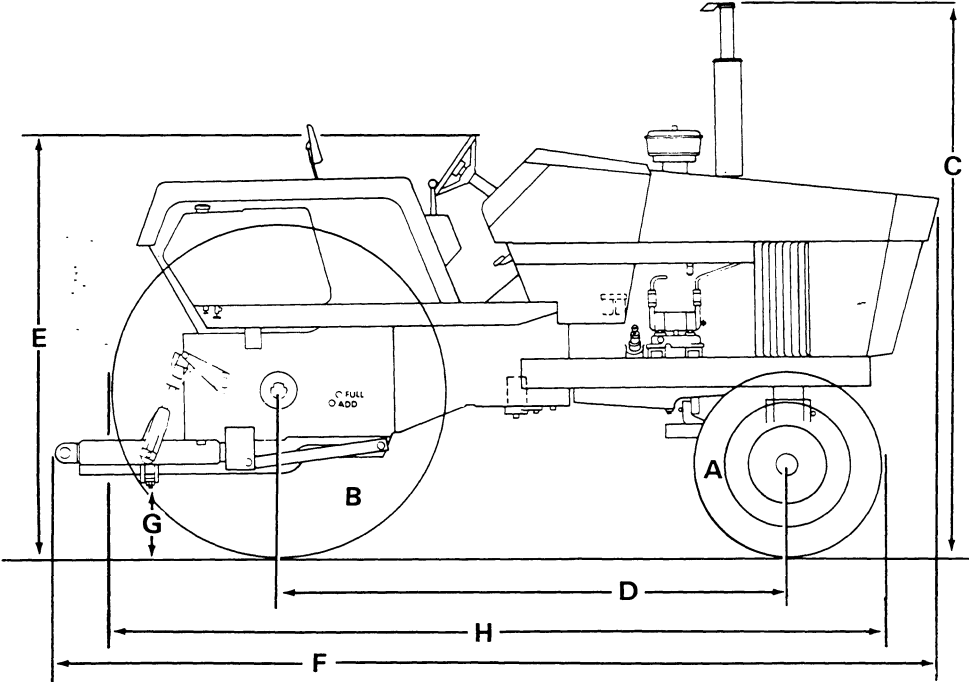
THIS CASE OPERATOR'S CAB IS EQUIPPED WITH BUILT IN ROLLOVER PROTECTION AS SPECIFIED IN ASAE STANDARD S-336.

**APPROXIMATE TRAVEL SPEEDS
IN MPH AND KM/H AT 2100 RPM
12 Speed Power Shift Transmission**

NOTE: Reverse may not be obtained with transmission in 4th range.

TRANSMISSION RANGE	POWER SHIFT			REAR TIRE SIZE
	1	2	3 AND REVERSE	
1	1.9 mph (3.1 km/h)	2.5 mph (4.0 km/h)	3.1 mph (5.0 km/h)	16.9-38
2	3.2 mph (5.2 km/h)	4.3 mph (6.9 km/h)	5.4 mph (8.7 km/h)	
3	4.9 mph (7.9 km/h)	6.5 mph (10.5 km/h)	8.1 mph (13.0 km/h)	
4	10.4 mph (16.7 km/h)	13.8 mph (22.2 km/h)	17.2 mph (27.7 km/h)	
1	1.9 mph (3.1 km/h)	2.6 mph (4.2 km/h)	3.2 mph (5.2 km/h)	18.4-38
2	3.3 mph (5.3 km/h)	4.4 mph (7.1 km/h)	5.5 mph (8.9 km/h)	
3	5.0 mph (8.1 km/h)	6.7 mph (10.8 km/h)	8.4 mph (13.5 km/h)	
4	10.7 mph (17.2 km/h)	14.2 mph (22.9 km/h)	17.7 mph (28.5 km/h)	
1	2.0 mph (3.2 km/h)	2.7 mph (4.4 km/h)	3.3 mph (5.3 km/h)	20.8-38
2	3.5 mph (5.6 km/h)	4.6 mph (7.4 km/h)	5.7 mph (6.9 km/h)	
3	5.2 mph (8.4 km/h)	7.0 mph (11.3 km/h)	8.7 mph (14.0 km/h)	
4	11.1 mph (17.9 km/h)	14.8 mph (23.8 km/h)	18.5 mph (29.8 km/h)	
1	1.9 mph (3.1 km/h)	2.6 mph (4.2 km/h)	3.2 mph (5.2 km/h)	24.5-32
2	3.3 mph (5.3 km/h)	4.4 mph (7.1 km/h)	5.6 mph (9.0 km/h)	
3	5.1 mph (8.2 km/h)	6.7 mph (10.8 km/h)	8.4 mph (13.5 km/h)	
4	10.8 mph (17.4 km/h)	14.3 mph (23.0 km/h)	17.8 mph (28.7 km/h)	

APPROXIMATE OVERALL MEASUREMENTS



	TIRE	WHEEL
A	11.00-16 F2	W8L-16
B	20.8-38 R1	W18L-38

C	116 INCHES (2 946mm)
D	105 INCHES (2 667mm)

E	85 INCHES (2 159mm)
F	182 INCHES (4 623mm)

G	16 INCHES (406mm)
H	160 INCHES (4 064mm)

- Turning Radius 177-1/2 Inches (4 509mm)
- Turning Radius With Brake Assistance 159-1/2 Inches (4 051mm)
- Height over Cab 116 Inches (2 946mm)
- Height over Muffler on Cab Models 136 Inches (3 454mm)

APPROXIMATE WEIGHT

- Tractor without Cab 11,690 Pounds (5 302 kg.)
- Tractor with Cab 13,170 Pounds (5 974 kg.)

TIRE AND WHEEL EQUIPMENT

Front

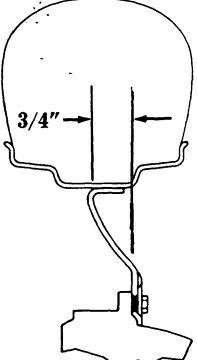
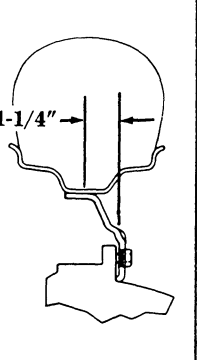
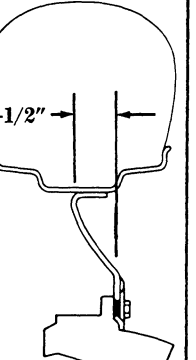
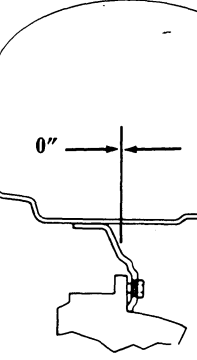
TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE PRESSURE
7.50-18	6	5.50F-18	F2	40 PSI (2.8 kg/cm ²)
9.50-20	6	W7L-20	F2	40 PSI (2.8 kg/cm ²)
10.00-16	6	W8L-16	F2	28 PSI (1.9 kg/cm ²)
10.00-16	8	W8L-16	F2	36 PSI (2.5 kg/cm ²)
11.00-16	6	W8L-16	F2	28 PSI (1.9 kg/cm ²)
14L-16.1	6	W11L-16.1	F2	24 PSI (1.7 kg/cm ²)

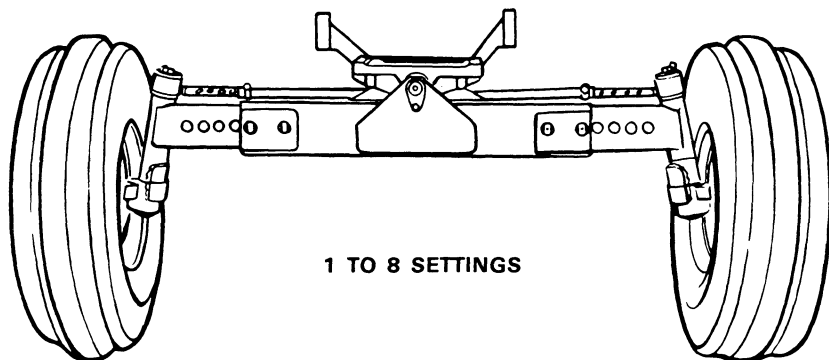
Rear

TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE PRESSURE
16.9-38	6	W14L-38	R1	18 PSI (1.3 kg/cm ²)
16.9-38	8	W14L-38	R1	24 PSI (1.7 kg/cm ²)
18.4-38	6	W16L-38	R1 & R2	16 PSI (1.1 kg/cm ²)
18.4-38	8	W16L-38	R1 & R2	20 PSI (1.4 kg/cm ²)
20.8-34	8	W18L-34	R1	18 PSI (1.3 kg/cm ²)
20.8-38	8	W18L-38	R1 & R2	18 PSI (1.3 kg/cm ²)
20.8-38	10	W18L-38	R1 & R2	22 PSI (1.5 kg/cm ²)
24.5-32	10	DW21-32	R1 & R2	20 PSI (1.4 kg/cm ²)
23.1-34	8	DW20-34	R1 & R2	16 PSI (1.1 kg/cm ²)
12.4-42	6	W9-42	R1	24 PSI (1.7 kg/cm ²)

NOTE: Keep tires inflated to recommended pressures. Check pressures at least every 50 hours of operation or once a week, whichever occurs first. Do not reduce rear tire pressure to increase traction. When plowing, increase furrow wheel tire pressure 4 PSI (0.281 kg/cm²).

FRONT WHEEL TREAD SPACING (With Wheels Dished In Only)

3/4 in. (19.1mm) OFFSET 5.50F-18 WHEEL RIM W/7.50-18 TIRE	1-1/4 in. (31.8mm) OFFSET W18L-16 WHEEL RIM W/10.00-16 or 11.00-16 TIRE	1-1/2 in. (38.8mm) OFFSET W7L-20 WHEEL RIM W/9.50-20 TIRE	NON-OFFSET W11L-16.1 WHEEL RIM W/14L-16.1 TIRE
			
← CENTERLINE OF TRACTOR	← CENTERLINE OF TRACTOR	← CENTERLINE OF TRACTOR	← CENTERLINE OF TRACTOR
59.5-87.5 INCH (1 511-2 223mm)	60-88 INCH (1 524-2 235mm)	62.-5-90.5 INCH (1 588-2 299mm)	61-89 INCH (1 549-2 261mm)
ADJUSTABLE AXLE SPACING IN INCHES AND MILLIMETERS			



NOTE: Axle spacing listings above are from the narrow setting, with increments of 4 inches (101.6mm) to the wide setting.

NOTE: When tightening the 5/8 in. (15.9mm) dia. front wheel bolts, torque 115 to 130 ft. lbs. (15.9 to 18 m-kg). When tightening the 9/16 in. (14.3mm) dia. front wheel bolts, torque 85 to 100 ft. lbs. (11.76 to 13.83 m-kg), whichever tractor is equipped with.

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