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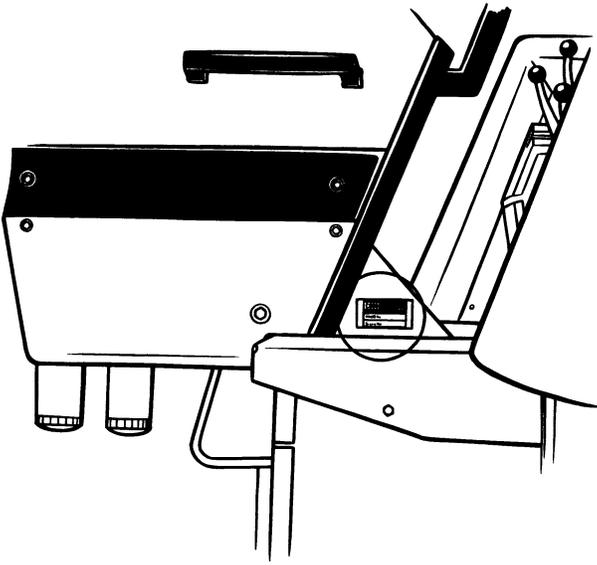
1570 TRACTOR

SPIRIT OF '76 TRACTOR

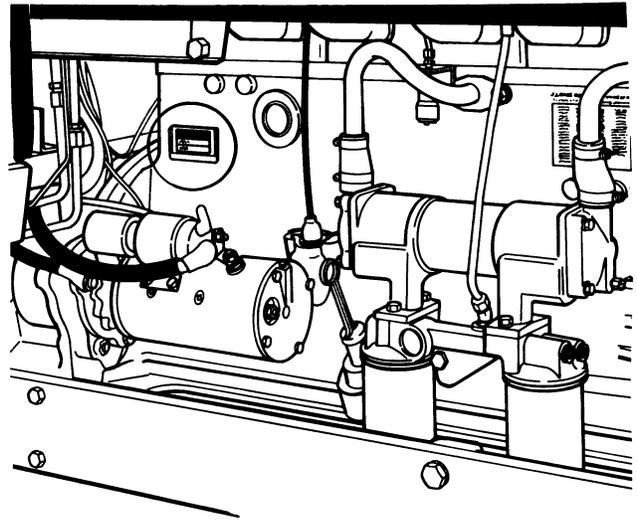
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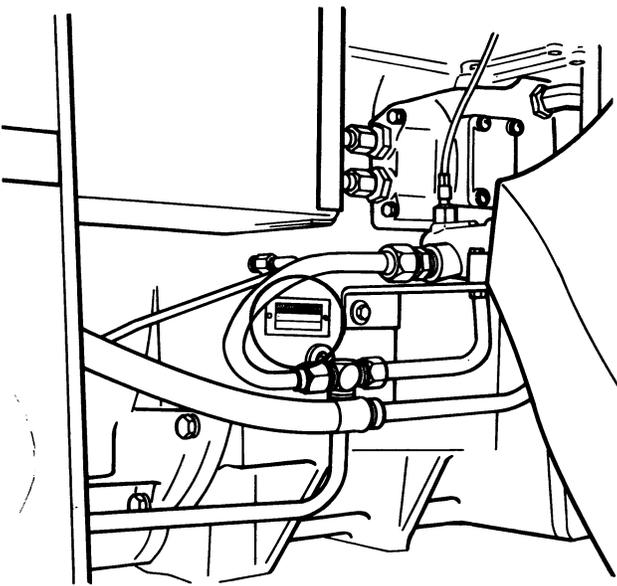
SERIAL NUMBERS



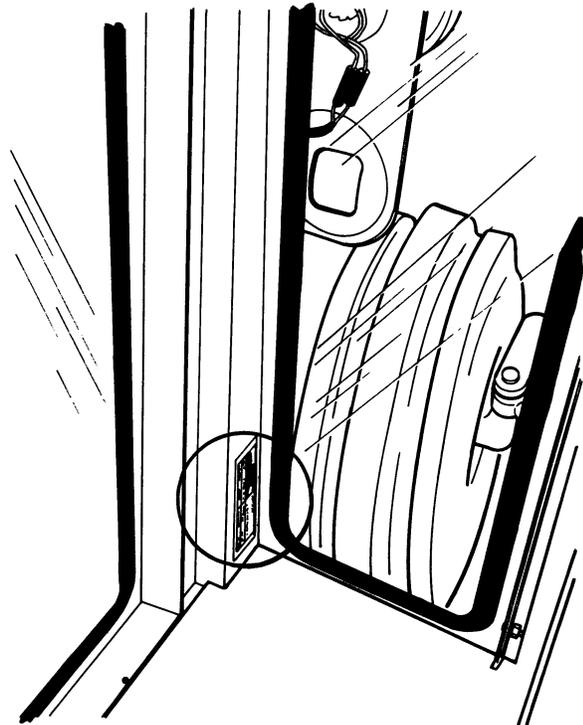
TRACTOR SERIAL NUMBER



ENGINE SERIAL NUMBER



TRANSMISSION SERIAL NUMBER



CAB SERIAL NUMBER

DIESEL ENGINE

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 259cm ³)
Compression Ratio	15.8 to 1
Cylinder Sleeves	Removable Wet Type
No Load Governed Speed	2290-2330 RPM
Rated Engine Speed	2100 RPM
Engine Idling Speed	700-750 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 Rods

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.

Air Intake System

Type	Self-Cleaning Air Induction System, Dry-Type, 2 Stage With Service Indicator and Pre-Cleaner.
------------	---

Engine Lubrication System

Oil Pressure	45 to 60 PSI (310 to 414 kPa) with Engine Warm and Operating at Rated Engine Speed.
Type System	Pressure and Spray Circulation with Piston Oil Cooling.
Oil Pump	Gear Type
Oil Filter (2)	Full Flow Spin on Type, Pleated with By-pass Valve in Filter Base.
Oil Capacity	With Filters, 26 U.S. Qts. (24.6 litres) Without Filters, 22 U.S. Qts. (20.8 litres)
Oil Cooler	Engine Oil

Cooling System

Capacity of System	44 U.S. Quarts (41.6 litres)
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	10 PSI (69.0 kPa)

Fuel System

Fuel Injection Pump	Robert Bosch, Type PES (Multiple Plunger).
Pump Timing	25 Degrees Before Top Dead Center (Port Closing). IMPORTANT: Do Not Advance Beyond 25° BTDC Under Any Circumstances. The Specified 25° Provides Minimum Emissions In Tractor Operation.
Fuel Injectors	American Bosch, 17mm Opening Pressure 4000 PSI (27 579 kPa)
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 (303 litres)
Fuel Level Gauge	Electric, Located on Instrument Panel.
Hand Primer Pump	Located on Top of the Fuel Transfer Pump.
Preliminary Fuel Filter	Located at the Bottom of the Fuel Transfer Pump.

TRACTOR SPECIFICATIONS

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 Sec- onds. Voltage Drops 1.0 Volt per Cell after 4 min.
Alternator	12 Volt 55 Amp Output, Negative Ground
Voltage Regulator	12 Volt, Solid State, Internal Component of 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
Flasher Lights (2) With Directional Turn Signals	12 Volt, Amber Lens
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

Hydraulic Power Assist Brakes

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

Type	3 Speed Compound Planetary With Hydraulically Actuated Clutches and a 4 Speed Gear Range Selection.
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.
Oil Cooler	Transmission, Hydraulic, Steering and Brake Oil

Differential Lock

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

Hydrostatic Power Steering

Dual Pump, 8 gal. (30.3 litres) Section ----- Direct Drive Gear Type

Pump Capacity at 2000 Engine RPM ----- 8 GPM (30.3 l/min.)

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

Convertible Hitch Coupler (Available) ----- Category III-II

Power Take-Off

Type Clutch ----- Hydraulically Operated

Rotation ----- Clockwise

Spline Size ----- 21 Splines 1-3/8 in. (34.9mm) Dia.

Engine Speed 2100 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.

Remote Hydraulic System

Dual Pump (20 gal. Section) ----- Direct Drive Gear Type
 Type Remote Valve (R.H. Side) ----- Dual Valve-Individual
 Hand Lever Control
 Pump Capacity at 2000 Engine RPM ----- 20 GPM (75.7 l/min.)
 Relief Valve Pressure ----- 2050 to 2250 PSI
 (14 134 to 15 503 kPa)
 Portable Cylinders ----- Available
 Couplings (R.H. Side) ----- ASAE R366 Standard Quick Detachable Break-away Type.

Variable Flow Remote Hydraulic System

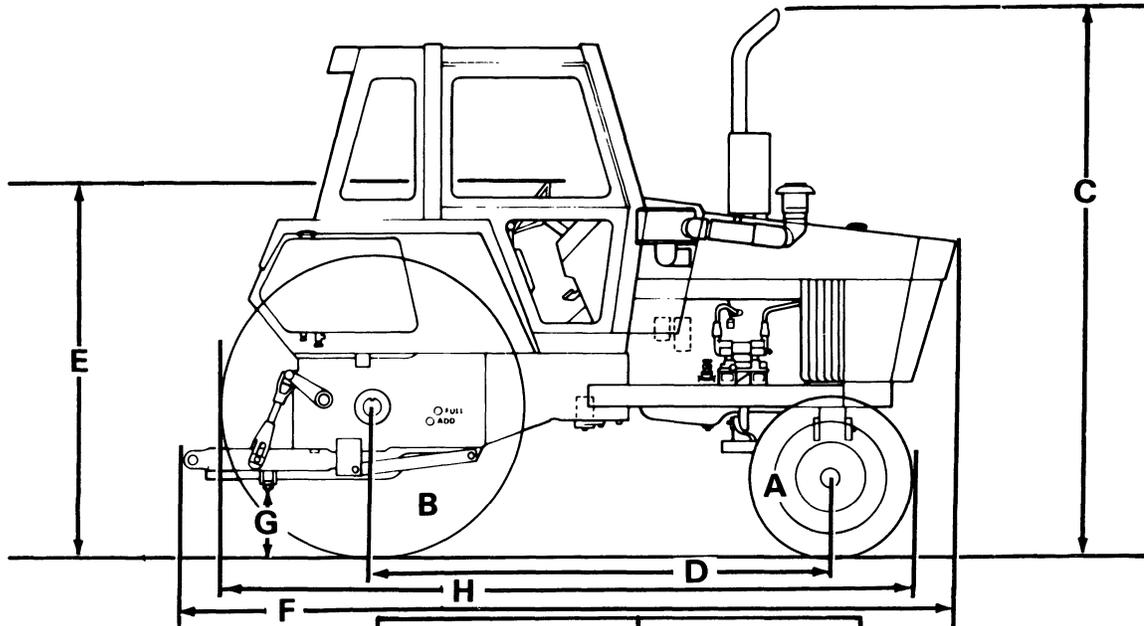
Single Pump ----- Gear Type, Direct Drive
 Type Remote Valve (L.H. Side) ----- Dual Valve-Individual
 Hand Lever Control.
 Pump Capacity at 2000 Engine RPM ----- 20 GPM (75. l/min.)
 Relief Valve Pressure ----- 2050 to 2250 PSI
 (14 134 to 15 503 kPa)
 Variable Flow Control Valve ----- Hand Operated from
 Console - Minimum 2.7 GPM (10.2 l/min.)
 to Maximum 20 GPM (75.7 l/min.)
 Couplings (L.H. Side) ----- ASAE R366 Standard Quick Detachable Break-away Type.
 Portable Cylinders ----- Available

**Approximate Travel Speeds in MPH
and KM/H at 2100 Engine 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	1.92 mph (3.1 km/h)	2.6 mph (4.2 km/h)	3.2 mph (5.2km/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	10.6 mph (17.1 km/h)	14.3 mph (23.0 km/h)	19.6 mph (31.5 km/h)	
1	1.97 mph (3.2 km/h)	2.7 mph (4.4 km/h)	3.3 mph (5.3 km/h)	20.8-38
2	3.4 mph (5.5 km/h)	4.5 mph (7.2 km/h)	5.7 mph (9.2 km/h)	
3	5.2 mph (8.4 km/h)	6.9 mph (11.1 km/h)	8.7 mph (14.0 km/h)	
4	10.9 mph (17.5 km/h)	14.7 mph (23.7 km/h)	20.1 mph (32.4 km/h)	
1	1.91 mph (3.1 km/h)	2.6 mph (4.1 km/h)	3.2 mph (5.1 km/h)	24.5-32
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	10.6 mph (17.1 km/h)	14.2 mph (22.8 km/h)	19.5 mph (31.7 km/h)	
1	2.03 mph (3.3 km/h)	2.8 mph (4.5 km/h)	3.4 mph (5.5 km/h)	30.5-32
2	3.5 mph (5.6 km/h)	4.7 mph (7.6 km/h)	5.8 mph (9.3 km/h)	
3	5.3 mph (8.5 km/h)	7.1 mph (11.4 km/h)	8.9 mph (14.3 km/h)	
4	11.2 mph (18.0 km/h)	15.1 mph (24.3 km/h)	20.7 mph (33.3 km/h)	

Approximate Overall Measurements



	TIRE	WHEEL
A	14L-16.1 F2	W11L-16.1
B	24.5-32 R1	DW21-32

C	127 INCHES (3 226mm)
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E	89 INCHES (2 159mm)
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G	16 INCHES (406mm)
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D	104 INCHES (2 642mm)
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F	182 INCHES (4 623mm)
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H	160 INCHES (4 064mm)
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- Turning Radius 172 Inches (4 369mm)
- Turning Radius With Brake Assistance 148 Inches (3 759mm)
- Height over Cab 117 Inches (2 971mm)
- Height over Muffler on Cab Models 127 Inches (3 226mm)

Approximate Shipping Weight

- Tractor without Cab 11,820 Pounds (5 361 kg)
 - Tractor with Cab 13,300 Pounds (6 032 kg)
- IMPORTANT:** The total tractor weight with ballast and weights must not exceed 20,500 lbs. (9 299 kg).

Operator's Cab

The Case Operators Cab build for this tractor is equipped with built in Rollover Protection in accordance with ASAE S336.1 & S310.2 and SAE J167a & J168a standards. This cab also conforms to OSHA regulation 1928.53 & 1926.1002, approval number CA R185

Tire and Wheel Equipment

Front

TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE * PRESSURE
11.00-16	6	W8L-16	F2	28 PSI (193 kPa)
11.00-16	8	W8L-16	F1 & F2	36 PSI (248 kPa)
14L-16.1	6	W11L-16.1	F2	24 PSI (166 kPa)
16.5L-16	8	W11L-16	I1	24 PSI (166 kPa)

Rear

TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE* PRESSURE
18.4-38	8	W16L-38	R1 & R2	20 PSI (138 kPa)
18.4-38	10	W16L-38	R1 & R2	26 PSI (179 kPa)
20.8-38	8	W18L-38	R1 & R2	18 PSI (124 kPa)
20.8-38	10	W18L-38	R1 & R2	22 PSI (152 kPa)
24.5-32	10	DW21-32	R1 & R2	20 PSI (138 kPa)
30.5-32	10	DW27-32	R1	16 PSI (110 kPa)

NOTE: Keep tires inflated to recommended pressures. Check pressures at least every 500 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 (28 kPa).

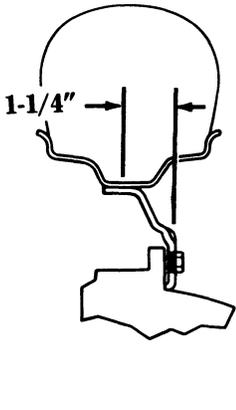
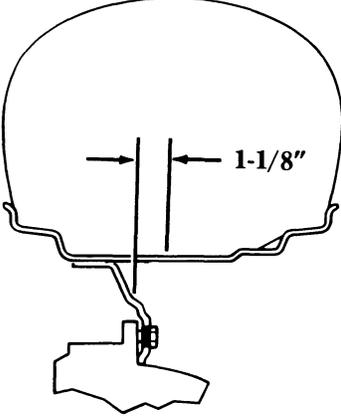
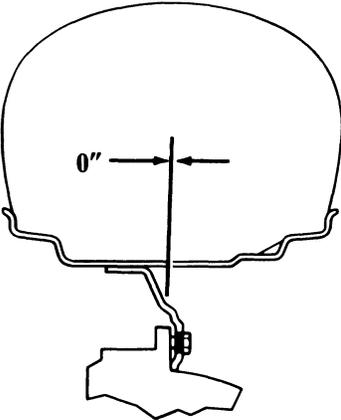
***NOTE:** The above tire pressures are recommended for normal tractor operation. Special traction conditions may require that you deviate from these pressures. If special conditions arise, consult with your Authorized Case Dealer, before changing tire pressures.

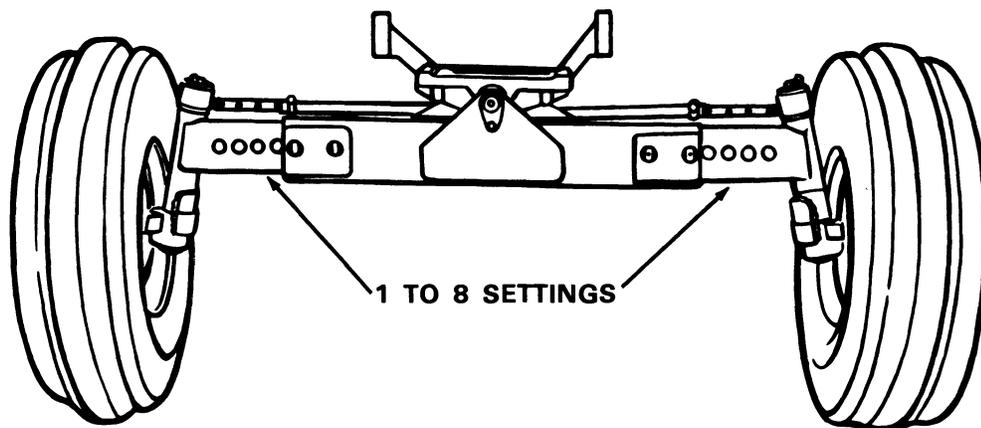
IMPORTANT: Do not attempt to remove, repair or install a tractor tire on a rim. Take the tire and rim to an experienced and properly equipped tire shop where special safety equipment is available.

Dual Rear Tire Pressure

NOTE: Inflate inside tires to recommended pressure to maintain good ground contact for maneuverability. Inflate outside tires 0 to 4 PSI (0 to 28 kPa) below recommended pressure to obtain flotation desired but never less than 12 PSI (82.7 kPa) total pressure.

Front Wheel Tread Spacing (With Wheels Dished in Only)

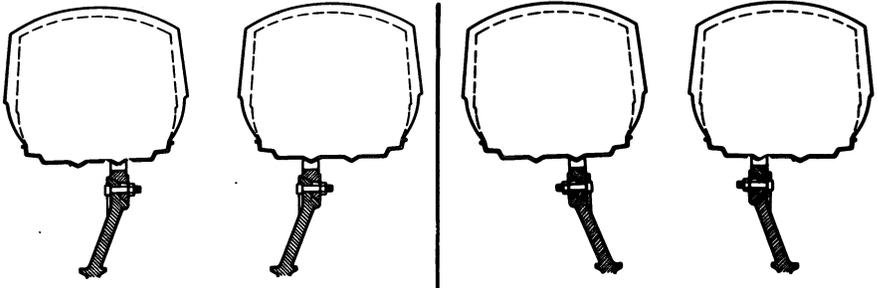
1-1/4 in. (31.8mm) OFFSET W8L-16 WHEEL RIM W/11.00-16 TIRE	1-1/8 in. (28.6mm) OFFSET W11L-16 WHEEL RIM W/16.5L-16 TIRE	NON-OFFSET W11L-16.1 WHEEL RIM W/14L-16.1 TIRE
 <p style="text-align: center; margin-top: 10px;"> ← CENTERLINE OF TRACTOR </p>	 <p style="text-align: center; margin-top: 10px;"> ← CENTERLINE OF TRACTOR </p>	 <p style="text-align: center; margin-top: 10px;"> ← CENTERLINE OF TRACTOR </p>
60 TO 88 INCHES (1 524 TO 2 235mm)	64 TO 92 INCHES (1 646 TO 2 337mm)	61 TO 89 INCHES (1 549 TO 2 261mm)
ADJUSTABLE AXLE SPACING IN INCHES AND MILLIMETERS		



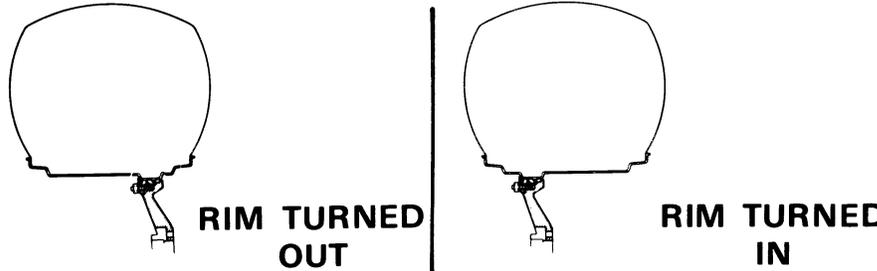
NOTE: Axle spacing listings above are from the narrow setting, to the wide setting in increments of 4 inches (101.6mm).

NOTE: When tightening the 5/8 in. diameter front wheel bolts, torque 115 to 130 ft. lbs. (156 to 176 Nm). When tightening the 9/16 in. diameter front wheel bolts, torque 85 to 100 ft. lbs. (115 to 136 Nm), whichever is applicable to your tractor.

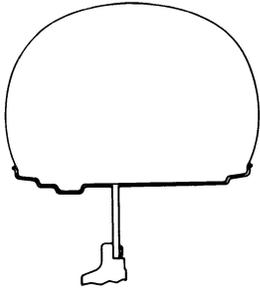
Rear Wheel Tread Spacing

TIRE SIZE		
	WHEEL DISHED OUT	WHEEL DISHED IN
96 INCH (2 438mm) REAR AXLE		
18.4 X 38	*82 TO 109 INCH (2 083 TO 2 769mm)	62 TO 84 INCH (1 575 TO 2 134mm)
20.8 X 38	*82 TO 109 INCH (2 083 TO 2 769mm)	64 TO 84 INCH (1 626 TO 2 134mm)
120 INCH (3 048mm) REAR AXLE		
18.4 X 38	*82 TO 133 INCH (2 083 TO 3 378mm)	62 TO 108 INCH (1 575 TO 2 743mm)
20.8 X 38	*82 TO 133 INCH (2 083 TO 3 378mm)	64 TO 108 INCH (1 626 TO 2 743mm)

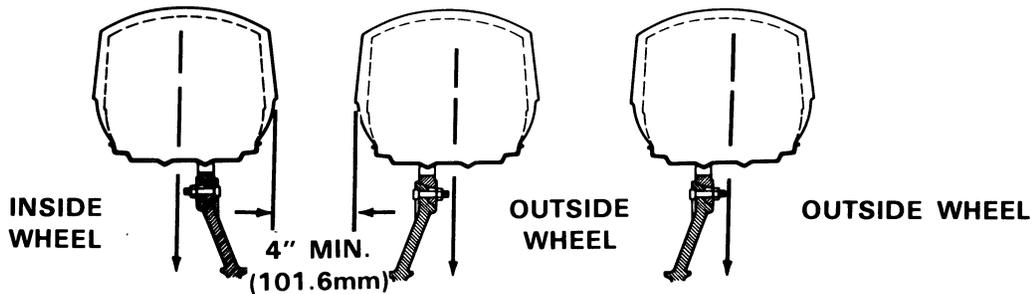
***OUTER DIMENSION CAN BE 2 INCHES (50.8mm) LESS WHEN CLAMP IS MOUNTED ON INSIDE.**

TIRE SIZE		
	RIM TURNED OUT	RIM TURNED IN
96 INCH (2 438mm) REAR AXLE		
24.5 X 32	76 TO 95 INCH (1 930 TO 2 413mm)	68 TO 77 INCH (1 727 TO 1 956mm)
120 INCH (3 048mm) REAR AXLE		
24.5 X 32	76 TO 119 INCH (1 930 TO 3 023mm)	68 TO 101 INCH (1 727 TO 2 565mm)

Rear Wheel Tread Spacing

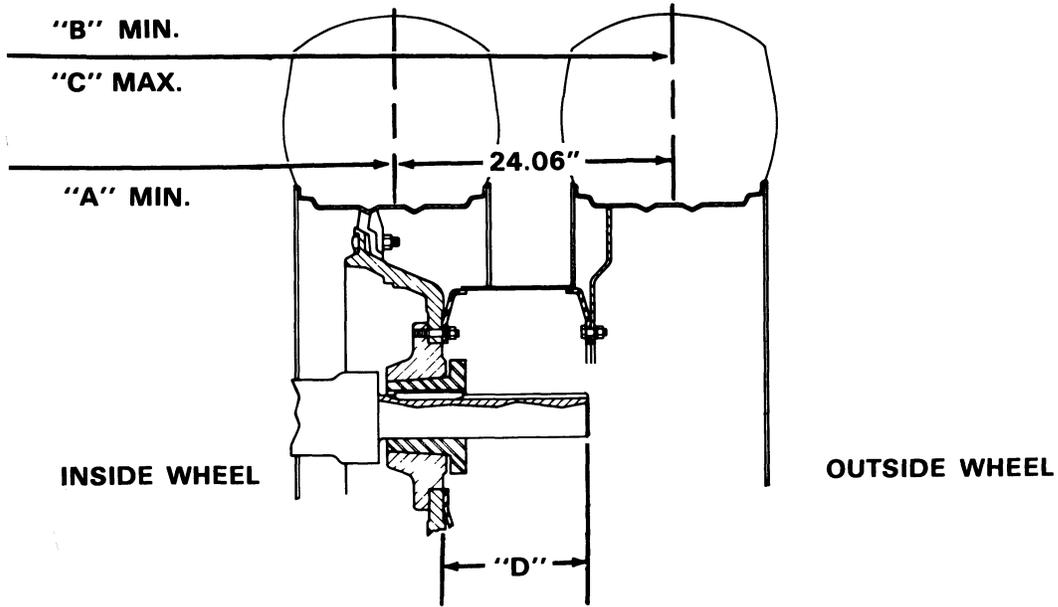
TIRE SIZE	
120 INCH (3 048mm) REAR AXLE	
30.5 X 32	74 TO 118 INCH (1 880 TO 2 997mm)

Dual Rear Wheel Tread Spacing



TIRE SIZE	MIN. TREAD	MIN. TREAD	MAX. TREAD	INNER WHEEL	OUTER WHEEL
96 INCH (2 438mm) REAR AXLE					
18.4 X 38	62 IN. (1 575mm)	107 IN. (2 718mm)	109 IN. (2 769mm)	CAST	CAST
120 INCH (3 048mm) REAR AXLE					
18.4 X 38	62 IN. (1 575mm)	107 IN. (2 718mm)	133 IN. (3 378mm)	CAST	CAST
18.4 X 38	62 IN. (1 575mm)	107 IN. (2 718mm)	127 IN. (3 226mm)	CAST	STEEL
20.8 X 38	64 IN. (1 626mm)	114 IN. (2 896mm)	133 IN. (3 378mm)	CAST	CAST
20.8 X 38	64 IN. (1 626mm)	113 IN. (2 870mm)	131 IN. (3 327mm)	CAST	STEEL

Dual Rear Wheel Tread Spacing with Spacer



TIRE SIZE	A MIN. TREAD	B MIN. TREAD	C MAX. TREAD	D	INNER WHEEL	OUTER WHEEL
96 INCH (2 438mm) REAR AXLE						
18.4 X 38	62 IN. (1 575mm)	110 IN. (2 794mm)	131 IN. (3 327mm)	10.5 IN. (267mm)	CAST	STEEL
120 INCH (3 048mm) REAR AXLE						
18.4 X 38	62 IN. (1 575mm)	110 IN. (2 794mm)	155 IN. (3 937mm)	22.5 IN. (572mm)	CAST	STEEL
20.8 X 38	64 IN. (1 626mm)	112 IN. (2 845mm)	157 IN. (3 988mm)	22.5 IN. (572mm)	CAST	STEEL

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NOTE: The 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.

Section

1012

LUBRICATION
1570 TRACTOR
Spirit of '76