

TABLE OF CONTENTS

1270 - 1370 - 1570 TRACTORS

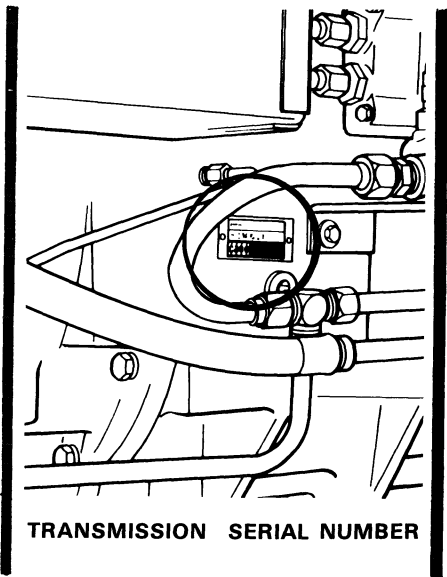
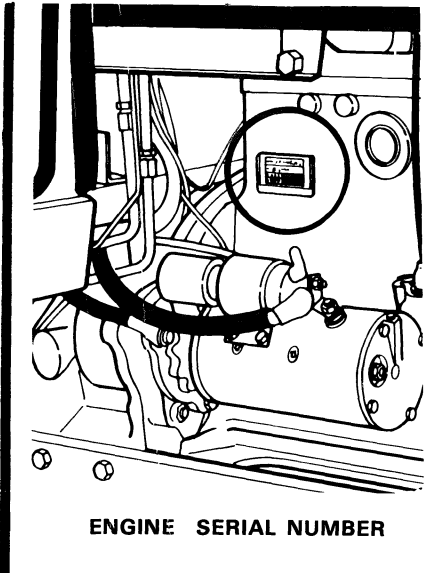
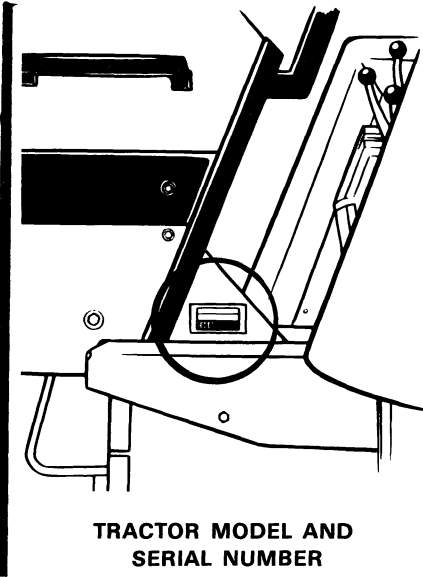
1270	1370	1570	SECTION	DESCRIPTION	FORM NUMBER
			10 - GENERAL		
	X		1010	General Specifications - 1370 Tractors	9-76386
		X	1010	General Specifications - 1570 Tractors	9-79586
X			1011	General Specifications - 1270 Tractors	9-76966
	X		1012	Lubrication - 1370 Tractors	9-76396
		X	1012	Lubrication - 1570 Tractors	9-79645
X			1013	Lubrication - 1270 Tractors	9-76975
	X	X	1020	Engine - 504 BDT	9-45991
X			1021	Engine - 451 BDT	9-76955
X	X		1030	Fuel System	9-76115
		X	1130	Fuel System	9-77936
X	X	X	1040	Hydraulic System	9-76516
X	X	X	1050	Steering System	9-76525
X	X	X	1060	Power Train	9-76536
X	X	X	1070	Brake System	9-76545
			20 - ENGINES		
X	X	X	2001	Engine Diagnosis	9-76365
X	X	X	2002	Engine Tune-Up	9-76379
X	X	X	2010	Parts Removal to Gain Access to Cylinder Heads	9-79445
X	X	X	2011	Parts Removal to Gain Access to Camshaft	9-79485
X	X	X	2015	Cylinder Head, Valve Train and Camshaft	9-76166
X	X	X	2020	Parts Removal to Gain Access to Cyl. Block, Sleeves, Pistons and Rods ...	9-79465
X	X	X	2025	Cylinder Block, Sleeves, Pistons and Rods	9-76176
X	X	X	2030	Parts Removal to Gain Access to Crankshaft	9-79505
X	X	X	2031	Parts Removal to Gain Access to Front Oil Seal	9-79495
X	X	X	2032	Splitting Tractor between Engine and Torque Tube	9-76726
X	X	X	2035	Crankshaft, Main Bearings, Flywheel and Oil Seal	9-76187
X	X	X	2040	Parts Removal to Gain Access to Oil Pump	9-79455
X	X	X	2045	Lubrication System, Oil Pump, Heat Exchanger and Oil Flow Diagrams ...	9-76325
X	X	X	2050	Parts Removal to Gain Access to Cooling System	9-79475
X	X	X	2055	Cooling System	9-76337
X	X	X	2060	Parts Removal to Gain Access to Turbocharger	9-79425
X	X	X	2065	Turbocharger - T04B	9-78026
X	X		2165	Turbocharger - T04	9-78435
X	X	X	2565	Turbocharger Failure Analysis	9-78235
X	X	X	2075	Self Cleaning Air Induction System	9-76256
X	X	X	2290	Reconditioning Engine Cylinder Block	8-21170
			30 - FUEL SYSTEM		
X	X	X	3010	Fuel System	9-75297
X	X	X	3012	Robert Bosch Fuel Injection Pumps	9-74937
X	X		3013	Roosa Master Fuel Injectors	9-74959
		X	3113	American Bosch Fuel Injectors	9-77756
X	X	X	3015	Repairing Polyethylene Fuel Tank	9-76305
			40 - HYDRAULICS		
X	X	X	4005	Testing Tractor Hydraulic System	9-45851
X	X	X	4009	Removal and Installation - Dual, Single and Charging Pumps	9-77385
X	X	X	4010	Hydraulic Oil Filters	9-76275
X	X	X	4011	Hydraulic Charging Pump	9-76285
X	X	X	4012	Hydraulic 4 Gear Dual Pump	9-76345
X	X	X	4013	Hydraulic 2 Gear Single Pump	9-76355
X	X	X	4014	Remote Hydraulic Valves	9-76636
X	X	X	4015	Variable Volume Flow Divider Valve	9-76405
X	X	X	4016	Flow Divider and PTO Control Valve	9-77145
X	X	X	4017	Draft-O-Matic Hydraulic System	9-74277
X	X	X	4019	Break-Away Couplings and Portable Cylinder	9-74197

1270	1370	1570	SECTION	DESCRIPTION	FORM NUMBER
			50 - STEERING		
X	X	X	5005	Testing Tractor Steering and Brake System	9-45911
X	X	X	5010	Steering Column and Pump Valve	9-74269
X	X	X	5011	Steering Axle and Cylinders	9-74037
			60 - POWER TRAIN		
X	X	X	6001	Trouble Shooting RPS-34 Power Shift	9-76037
X	X	X	6005	Testing RPS-34 Power Shift and PTO	9-45841
	X		6010	Power Shift and Four Speed Transmission (Prior to P.I.N. 8736001)	9-74117
X	X		6011	Differential Lock, Parking Brake, Brake Cylinders, Planetaries and Axles ..	9-74107
		X	6111	Differential Lock, Brake Cylinders, Planetaries and Axles	9-79715
	X		6012	Hydraulic Pump Drive (Prior to P.I.N. 8736001)	9-74337
	X		6013	Hydraulic PTO (Prior to P.I.N. 8736001)	9-74086
	X		6014	Torque Limiter - 12" and 14" (Prior to P.I.N. 8736001)	9-74347
X	X	X	6019	Splitting Tractor between Torque Tube and Transmission (P.I.N. 8736001 and After)	9-79555
X	X	X	6020	Torque Limiter (P.I.N. 8736001 and After)	9-77045
X	X	X	6025	Hydraulic Pump Drives (P.I.N. 8736001 and After)	9-77306
X	X		6030	RPS-34 Power Shift (P.I.N. 8736001 and After)	9-77246
		X	6230	RPS-34 Power Shift	9-79575
X	X	X	6035	RPS-34 Control Valve and Linkage	9-77316
X	X	X	6040	Four Speed Transmission (P.I.N. 8736001 and After)	9-77327
X	X		6045	Hydraulic PTO (P.I.N. 8736001 and After)	9-76985
		X	6145	Hydraulic PTO	9-79405
			70 - BRAKES		
X	X	X	7010	Power Assist Unit and Pedals	9-74096
X	X		7011	Parking Brake (Prior to P.I.N. 8797501)	9-74297
X	X	X	7012	Power Assist Brake Valve W/Adjustable Relief Valve	9-45871
X	X	X	7015	Park Lock System (P.I.N. 8797501 and After)	9-79626
			80 - ELECTRICAL		
X	X		8010	Tractor Electrical Wiring Diagram (Prior to SN8753831)	9-77106
X	X		8010	Tractor Electrical Wiring Diagram (SN8753831 thru SN8797500)	9-79995
X	X	X	8110	Tractor Electrical Wiring Diagram (Starting W/SN8797501)	9-79255
X	X	X	8011	Tractor Cab Wiring Diagram	9-77698
X	X	X	8012	Starting or Cranking Motors	9-75366
X	X	X	8013	Battery Service and Testing	9-75377
X	X		8014	Prestolite Alternator System	9-75399
X	X	X	8114	Delco-Remy Alternator System	9-78976
X	X	X	8115	Delco-Remy Alternator System	9-45901
X	X	X	8020	Neutral Start Switch Adjustment and Correct Starting Procedure Using Booster Batteries	9-79745
			90 - ACCESSORIES		
X	X	X	9005	Trouble Shooting - Air Conditioning System	9-78895
X	X	X	9015	Gauging and Testing - Air Conditioning System	9-78995
X	X	X	9025	Compressor Isolation, Removal, Installation and Evacuation System Discharging, Evacuation and Charging	9-79015
X	X	X	9035	Servicing Air Conditioning Components	9-78705
X	X	X	9050	Seat Adjustments (Swivel and Non Swivel)	9-79755
			100 - HOW IT WORKS - TROUBLE SHOOTING		
X	X	X	14001	Hydraulic System Oil Flows	9-76606
X	X	X	14014	Remote Hydraulic Valve	9-76556
X	X	X	14015	Variable Volume Flow Divider Valve	9-79615
X	X	X	14016	Flow Divider/PTO Control Valve, R.H. Dual & L.H. Single Pumps	9-76466
X	X	X	14017	Draft-O-Matic Hydraulic System	9-76476
X	X	X	15010	Steering Hand Pump-Valve	9-76566
X	X	X	16011	Differential Lock	9-76486
X	X	X	16030	Power Shift	9-76496
X	X		10019	Hydraulic Power Take-Off	9-76595
		X	16145	Hydraulic Power Take-Off	9-79405
X	X	X	17010	Power Brakes	9-76506
X	X	X	19010	Air Conditioning System	9-78615

Section 1010

GENERAL SPECIFICATIONS

SERIAL NUMBERS



DIESEL ENGINE

General

Type	6 Cylinder, 4 Stroke Cycle, Valve-in-Head Turbo-charged
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	2340 to 2380 RPM
Rated Engine Speed	2200 RPM
Engine Idling Speed	700 to 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 of Pins	Full Floating
Type of Bearings	Replaceable Precision, Steel Back, Aluminum or Copper-lead Alloy Liners

DIESEL ENGINE

Main Bearings

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

Engine Lubricating System

Oil Pressure 45 to 60 PSI (310 to 414 kPa) with Engine
 Warm and Operating at Rated Speed.
 Type of System Pressure and Spray Circulation with
 Piston Oil Cooling
 Oil Pump Gear Type
 Oil Filter (2) Full Flow Spin-on Type,
 Pleated with Bypass Valve in Filter Base
 Oil Capacity With Filters, 22 U.S. Quarts (20.8 Litres)
 Without Filters, 18 U.S. Quarts (17.1 Litres)
 Oil Cooler Engine Oil

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) (22 063 kPa)
 Fuel Transfer Pump Plunger Type, Integral Part of Injection Pump
 Governor Variable Speed, Fly-Weight Centrifugal Type,
 Integral Part 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 Litres)
 Fuel Level Gauge Electric, Located on Instrument Panel
 Hand Primer Pump Located on Top of Fuel Transfer Pump
 Preliminary Fuel Filter Located at the Bottom of the Fuel Transfer Pump

GENERAL SPECIFICATIONS

Cooling System

Capacity	42 U.S. Quarts (39.7 Litres)
Type of System	Pressurized Thermostat Controlled By-pass Type, Impeller Type Pump
Thermostat (2)	Starts to Open at Approximately 175°F. (79°C.) Fully Open at 202°F. (94°C.)
Pressure Cap Required	14 PSI Vented (97 kPa) or 10PSI Non-Vented (69 kPa)

Electrical System

Type of System - Diesel	12 Volt Negative Ground
Batteries	(2) 12 Volt Batteries Connected in Parallel Group Size 30H, Rated at 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 Minutes.
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 Beam
Flood Light (2) (Optional)	12 Volt 35 Watt, Sealed Beam
R. Rear Flood Light (1) (Optional)	12 Volt 60 Watt, Sealed Beam
Flasher Lights with Directional Turn Signals (2)	12 Volt, Amber Lens
L. Rear Flood&Tail Light(1)..	12 Volt, 60 Watt Sealed Beam Combination Tail and Flood Lamp
Circuit Breaker System Overload Check	12 Volt Twin 40 Amp. Breakers Connected in Parallel, 80 Amp. Rating - 60 Amp. Minimum 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 Orscheln Type Handle - Adjustable From Operator's Seat
Double Wrap Steel Band on Differential**

Hydraulic Power Assist Brake

**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 - 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 Type (8 gal. section) Gear Type, Driven by the Engine

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

Remote Hydraulic System

Dual Pump (20 gal. section) Direct Drive Gear Type

Type Remote Valve (R.H. side) Dual Valve-individual Hand Lever Control

R.H. Portable Cylinder Coupling ASAE R366 Standard Quick Detachable Break-away Type

Pump Capacity at 2000 Engine RPM 20 GPM (75.7 l/mn)

Relief Valve Pressure 1900 to 2050 PSI (13 100 to 14 134 kPa)

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 (13 100 to 14 134 kPa)

Variable Flow Control Valve Hand Operated From Console - Minimum 2.7 GPM (10.21 l/mn) to Maximum 20 GPM (75.7 l/mn)

Variable Flow Remote Hydraulic System (Continued)

Portable Cylinder Couplings (L.H. side) ASAE R366 Standard Quick Detachable
Break-away Type

Portable Cylinders Available

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

Draft-O-Matic System

Type of Sensing Lower Link

Type Control Hand Lever

Type Valve 3 Positions - Raise - Hold - Lower

Type Draft Arms Swinging, with Manual Float Adjustment

Type Hitch 3 Point Category III

Convertible Hitch Coupler (Available) Category III - II

Drawbars

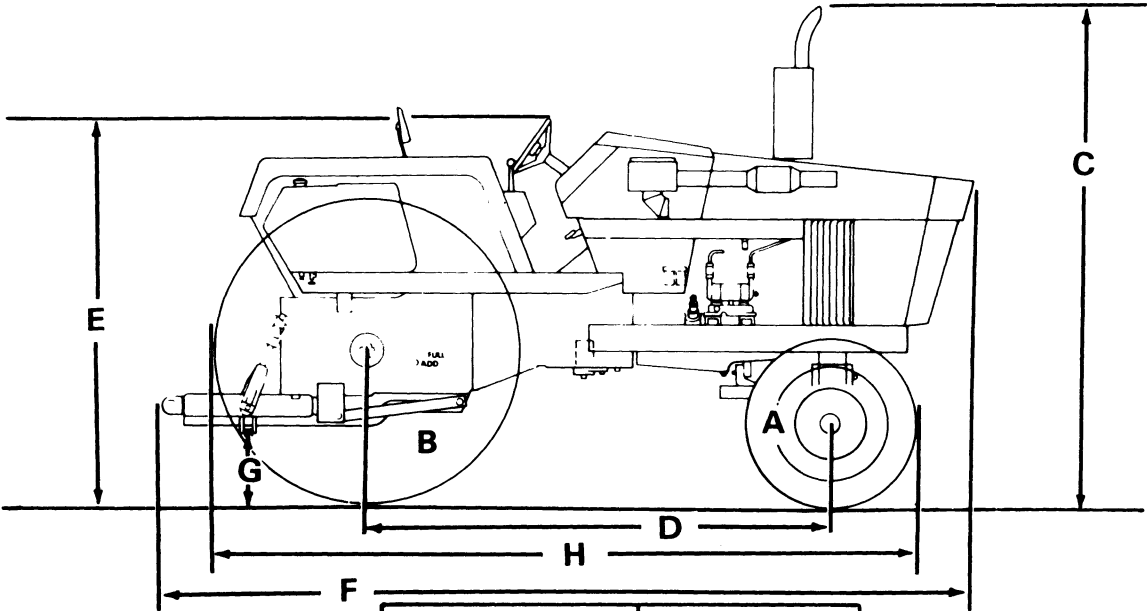
Standard or Yoke Type Full Swinging Roller Mounted
Will Accommodate a 1-1/2 Inch(38.1mm) Dia. Pin.

**APPROXIMATE TRAVEL SPEEDS IN MPH
AND KM/H AT 2200 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	2.0 mph (3.2 km/h)	2.6 mph (4.2 km/h)	3.2 mph (5.2 km/h)	16.9-38
2	3.4 mph (5.4 km/h)	4.5 mph (6.9 km/h)	5.7 mph (9.1 km/h)	
3	5.1 mph (8.3 km/h)	7.2 mph (11.0 km/h)	8.5 mph (13.6 km/h)	
4	10.9 mph (17.5 km/h)	14.5 mph (23.3 km/h)	18.0 mph (29.0 km/h)	
1	2.0 mph (3.2 km/h)	2.7 mph (4.4 km/h)	3.4 mph (5.4 km/h)	18.4-38
2	3.5 mph (5.6 km/h)	4.6 mph (7.4 km/h)	5.8 mph (9.3 km/h)	
3	5.2 mph (8.5 km/h)	7.0 mph (11.3 km/h)	8.8 mph (14.1 km/h)	
4	11.2 mph (18.0 km/h)	14.9 mph (24.0 km/h)	18.5 mph (29.8 km/h)	
1	2.1 mph (3.4 km/h)	2.8 mph (4.6 km/h)	3.5 mph (5.5 km/h)	20.8-38
2	3.6 mph (5.9 km/h)	4.8 mph (7.8 km/h)	6.0 mph (7.2 km/h)	
3	5.4 mph (8.8 km/h)	7.3 mph (11.8 km/h)	9.1 mph (14.6 km/h)	
4	11.6 mph (18.8 km/h)	15.5 mph (24.9 km/h)	19.4 mph (31.2 km/h)	
1	2.0 mph (3.2 km/h)	2.7 mph (4.4 km/h)	3.4 mph (5.4 km/h)	24.5-32
2	3.5 mph (5.6 km/h)	4.6 mph (7.4 km/h)	5.9 mph (9.4 km/h)	
3	5.3 mph (8.6 km/h)	7.0 mph (11.3 km/h)	8.8 mph (14.1 km/h)	
4	11.3 mph (18.2 km/h)	14.9 mph (24.1 km/h)	18.6 mph (30.0 km/h)	

APPROXIMATE OVERALL MEASUREMENTS



	TIRE	WHEEL
A	14L-16.1 F2	W11L-16.1
B	23.1-34 R1	DW20-34

C	126 INCHES (3 200mm)	E	88 INCHES (2 235mm)	G	16 INCHES (406mm)
D	104 INCHES (2 642mm)	F	182 INCHES (4 623mm)	H	160 INCHES (4 064mm)

Turning Radius	172 Inches (4 369 mm)
Turning Radius with Brake Assistance	148 Inches (3 759 mm)
Height Over Cab	116 Inches (2 946mm)
Height Over Muffler On Cab Models	136 Inches (3 454 mm)

APPROXIMATE WEIGHT

Tractor Without Cab	11,690 Pounds (5 302 kg.)
Tractor With Cab	13,170 Pounds (5 974 kg.)

OPERATOR'S CAB

The Case Operators' Cab is equipped with built-in rollover protection as specified in ASAE Standards S336.1 and S310.2, SAE Standards J167a and J168a., and OSHA Regulations 1928.53 and 1926.1002, Approval Number CA R185.

TIRE AND WHEEL EQUIPMENT

Front

TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE PRESSURE
10.00-16	6	W8L-16	F2	28 PSI (193 kPa)
11.00-16	6	W8L-16	F2	28 PSI (193 kPa)
11.00-16	8	W8L-16	F1	36 PSI (248 kPa)
14L-16.1	6	W11L-16.1	F2	24 PSI (166 kPa)

Rear

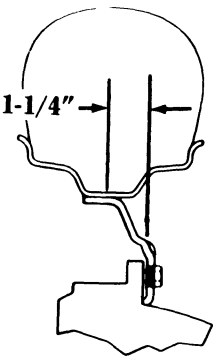
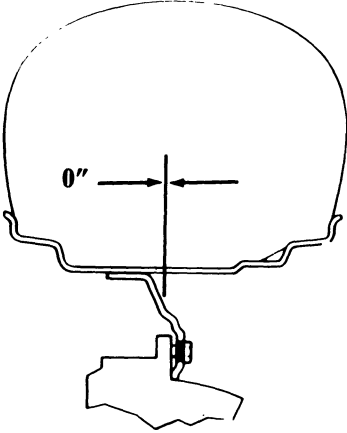
TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE PRESSURE
16.9-38	8	W14L-38	R1	24 PSI (166 kPa)
18.4-38	6	W16L-38	R1 & R2	16 PSI (110 kPa)
18.4-38	8	W16L-38	R1	20 PSI (138 kPa)
20.8-38	8	W18L-38	R1 & R2	18 PSI (124 kPa)
24.5-32	10	DW21-32	R1 & R2	20 PSI (138 kPa)
23.1-34	8	DW20-34	R1 & R2	16 PSI (110 kPa)

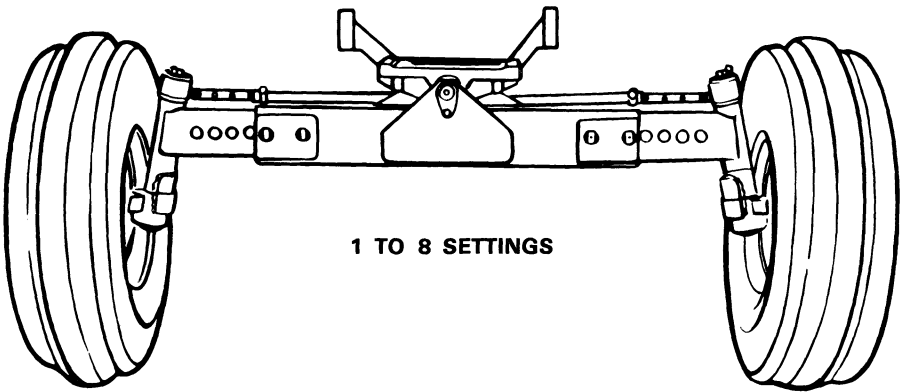
NOTE: Keep tires inflated to recommended pressures. Check pressures at least every 50 hours of operation or once a week, whichever occurs first. Do not reduce tire pressure to increase traction. When plowing, increase furrow wheel tire pressure 4 PSI (28 kPa).

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.

FRONT WHEEL TREAD SPACING
(With Wheels Dished In Only)

Adjustable Axle Spacing in Inches

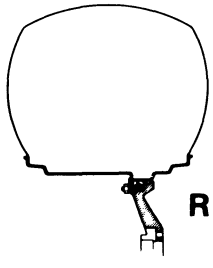
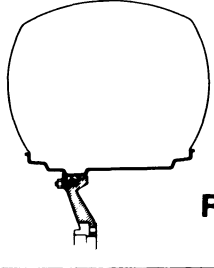
1-1/4 in. (31.8mm) OFFSET W18L-16 WHEEL RIM W/10.00-16 or 11.00-16 TIRE		NON-OFFSET W11L-16.1 WHEEL RIM W/14L-16.1 TIRE
 ← CENTERLINE OF TRACTOR		 ← CENTERLINE OF TRACTOR
60-88 INCH (1 524-2 235mm)		61-89 INCH (1 549-2 261mm)
ADJUSTABLE AXLE SPACING IN INCHES AND MILLIMETERS		



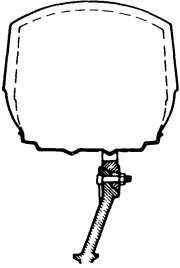
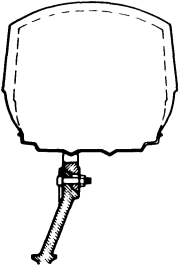
NOTE: Axle spacing listings above are from the narrow setting, to the wide setting in increments of 4 inches (101.6mm).

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	 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)
23.1 X 34	75 TO 94 INCH (1 905 TO 2 388mm)	67 TO 78 INCH (1 702 TO 1 981mm)
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)
23.1 X 34	75 TO 118 INCH (1 905 TO 2 997mm)	67 TO 102 INCH (1 702 TO 2 591mm)

REAR WHEEL TREAD SPACING (Continued)

TIRE SIZE	 	
	WHEEL DISHED OUT	WHEEL DISHED IN
96 INCH (2 438mm) REAR AXLE		
16.9 X 38	*82 TO 109 INCH (2 083 TO 2 769mm)	60 TO 84 INCH (1 524 TO 2 134mm)
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		
16.9 X 38	*82 TO 133 INCH (2 083 TO 3 378mm)	60 TO 108 INCH (1 524 TO 2 743mm)
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)

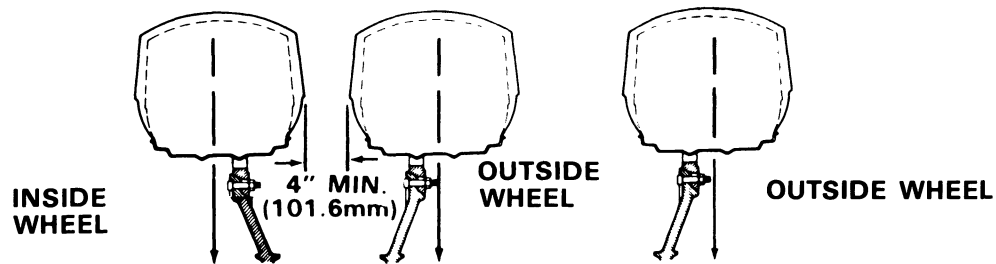
*OUTER DIMENSION CAN BE 2 INCHES (50.8mm) LESS WHEN CLAMP IS MOUNTED ON INSIDE.

DUAL REAR TIRE PRESSURES

Refer to Tire Pressures listed on page 9.

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 floatation desired but never less than 12 PSI (82.7 kPa) total pressure.

DUAL REAR WHEEL TREAD SPACING



TIRE SIZE	MIN. TREAD	MIN. TREAD	MAX. TREAD	INNER WHEEL	OUTER WHEEL
96 INCH (2 438mm) REAR AXLE					
16.9 X 38	60 IN. (1 524mm)	102 IN. (2 591mm)	109 IN. (2 769mm)	CAST	CAST
				CAST	STEEL
18.4 X 38	62 IN. (1 575mm)	107 IN. (2 718mm) W/O SPACER	109 IN. (2 769mm) W/O SPACER	CAST	STEEL
		127 IN. (3 226mm) W/10" SPACER	129 IN. (3 277mm) W/10" SPACER		
		110 IN. (2 794mm) W/12" SPACER	131 IN. (3 327mm) W/12" SPACER		

120 INCH (3 048mm) REAR AXLE

16.9 X 38	60 IN. (1 524mm)	102 IN. (2 591mm)	133 IN. (3 378mm)	CAST	CAST
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) W/O SPACER	127 IN. (3 226mm) W/O SPACER	CAST	STEEL
		127 IN. (3 226mm) W/10" SPACER	147 IN. (3 734mm) W/10" SPACER		
		110 IN. (2 794mm) W/12" SPACER	155 IN. (3 937mm) W/12" SPACER		
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) W/O SPACER	131 IN. (3 327mm) W/O SPACER	CAST	STEEL
		133 IN. (3 378mm) W/10" SPACER	151 IN. (3 835mm) W/10" SPACER		
		112 IN. (2 845mm) W/12" SPACER	157 IN. (3 988mm) W/12" SPACER		

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