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2094, 2294 AND 3294 TRACTORS

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Reprinted

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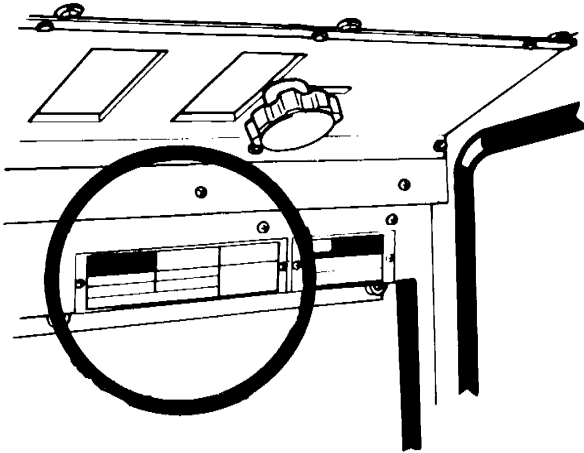
Section 1210

GENERAL SPECIFICATIONS

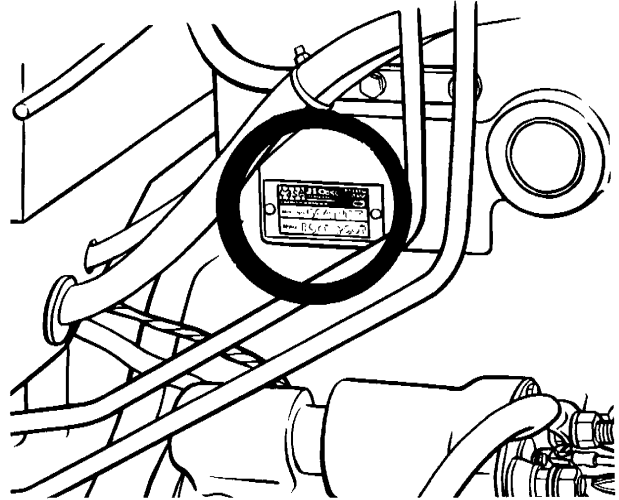
2094 Tractors

Written In *Clear
And
Simple
English*

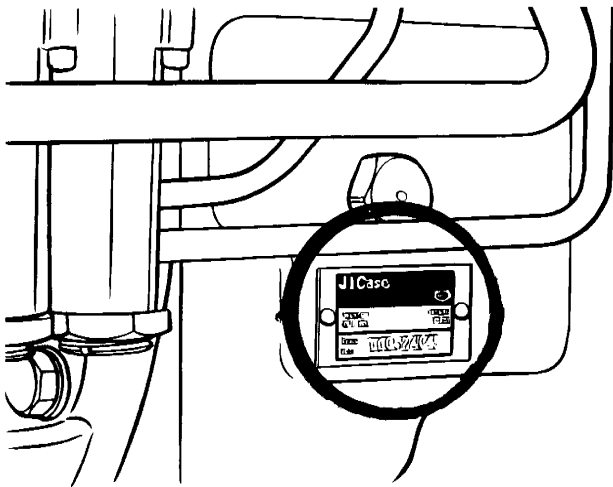
SERIAL NUMBERS



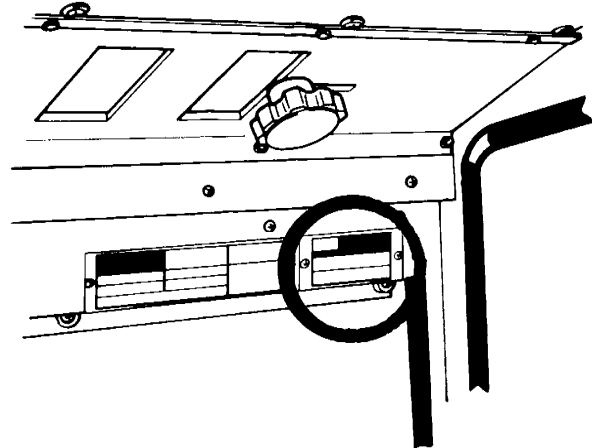
CAB SERIAL NUMBER PLATE



ENGINE SERIAL NUMBER PLATE



TRANSMISSION SERIAL NUMBER PLATE



**MODEL AND PRODUCT IDENTIFICATION
NUMBER PLATE**

DIESEL ENGINE SPECIFICATIONS

General

Type	Six Cylinder, Four Stroke Cycle, Natural Aspirated, Valve In Cylinder Head
Firing Order	1-5-3-6-2-4
Bore	4-5/8 inches (117.5 mm)
Stroke	5 inches (127 mm)
Piston Displacement	504 Cubic inches (8 259 cm ³)
Compression Ratio	16.0 to 1
Cylinder Sleeves	Wet Type, Can Be Removed
Governor Engine Speed Without Load	2280 to 2320 RPM
Rated Engine Speed	2100 RPM
Engine Idle Speed	725 to 775 RPM
Rocker Arm to Valve Clearance, Cold (Exhaust)	0.025 inch (0.635 mm)
(Intake)	0.015 inch (0.381 mm)

IMPORTANT: *Rocker arm to valve clearance adjustments must be made when the engine is not running.*

Piston And Rods

Rings Per Piston	3
Compression Rings Per Piston	2
Oil Rings Per Piston	1
Type Piston Pin	Full Float
Type Bearings	Replacement Bearings Available, Steel Back

Main Bearings

Quantity of Bearings	7
Type of Bearings	Replacement Bearings Available, Steel Back

Engine Lubrication System

Oil Pressure	45 to 60 PSI (310 to 414 kPa)(3.1 to 4.14 bar) With Engine Warm and Operating At Rated Speed With A Light Emitting Diode (LED) Service Monitor Lo- cated in the Digital Instrument Cluster.
Type System	Pressure and Spray
Oil Pump	Gear Type
Oil Filter	Full Flow, Turn on Type, By-Pass Valve in Filter Base
Oil Capacity	With Filters, 19 U.S. Quarts (17.8 Litres) without Filters, 18 U.S. Quarts (17.0 Litres)

Fuel System

Fuel Injection Pump	Robert Bosch, Type PES
Pump Timing	27 Degrees (BTC) Before Top Center
	IMPORTANT: <i>Do not increase past 27 degrees BTC at any time. The given 27 degrees gives minimum emissions in tractor operation.</i>
Fuel Injectors	American or Robert Bosch, 17 mm
Fuel Transport Pump	Plunger Type, a Part of the Fuel Injection Pump
Governor	Variable Speed, a Part of the Fuel Injection Pump
First Stage Fuel Filter	Full Flow, Turn on Type
Second Stage Fuel Filter	Full Flow, Turn on Type
Water Trap and Drain for Fuel Tank	Location is in Bottom of Fuel Tank
Fuel Tank Capacity	65 U.S. Gallons (246 Litres)
Fuel Level Gauge	Liquid Crystal Display (LCD) Bar Indicator
	Located in the Digital Instrument Cluster
Hand Primer Pump	Location is on Top of Fuel Transport Pump
Primary Fuel Filter	Location is at Bottom of Fuel Transport Pump

GENERAL TRACTOR SPECIFICATIONS

Air Intake System

Type Dry Type Air Cleaner System, Two Stage,
With a Light Emitting Diode (LED) Service
Monitor Located in the Digital Instrument
Cluster

Cooling System

Capacity 38 U.S. Quarts (36 Litres)
Type Pressure System, Thermostat Controlled
By-Pass, Impeller Type Pump
Radiator Heavy Duty Fin and Tube Type
Thermostats Two, Start to Open at Approximately
175° F (79° C), Fully Open at 202° F (94° C)
Pressure Cap 10 PSI (69 kPa) (6.9 bar)
Water Level Light Emitting Diode (LED) Service Monitor
Located in the Digital Instrument Cluster
Coolant Temperature Liquid Crystal Display (LCD) Bar Indicator
Located in the Digital Instrument Cluster

Electrical System

Type of System 12 Volt, Negative Ground
Batteries Two 12 Volt Batteries Connected in Parallel,
AABM Group Size 30H-580, Rated in 1.255 to
1.265 Specific Gravity. Discharge Rate 300
Amperes at 0° F. Voltage Decrease to 9.2 Af-
ter 10 Seconds. Voltage Decreases 1.0 Volt
Per Cell After Five Minutes.
Alternator 12 Volt, 61 Ampere Output, Negative Ground;
12 Volt, 72 Ampere Output, Negative Ground
or 12 Volt, 105 Ampere Output, Negative
Ground With a Light Emitting Diode (LED)
Service Monitors Located in the Digital Instru-
ment Cluster.
Voltage Regulator 12 Volt, Solid State, Inside Component of Alternator
Starter Motor 12 Volt with Solenoid Switch
Head Lamps (2) 12 Volt, 40/60 Watt Sealed Beam High-Low
Front Flood Lamps (4 Max) 12 Volt, 50 Watt, Sealed Beam
Rear Flood Lamps (4 Max) 12 Volt, 50 Watt, Sealed Beam
Flasher Lamps (2) With Direction Turn Signals 12 Volt, Amber Lens
Tail Lamps (2) 12 Volt, Red Lens
Tractor Electrical System Circuit Breaker 12 Volt, Three 50 Ampere Circuit
Breakers Connected In Parallel,
150 Ampere Rating, 120 Ampere
Continuing Capacity.
Cab Electrical System Circuit Breaker 12 Volt, 20 Ampere

Electrical System

Bulb And Lamp Replacement:

Instrument Cluster Lamps	No. 73
Dome Lamp Bulb	No. 561
Console Lamp Bulb	No. 194
Flasher Lamp Bulb	No. 1156
Head Lamp	No. 4652
Front and Rear Flood Lamp	No. A48265
Tail Lamp Bulb	No. 168

Fuse Replacement:

Instrument Cluster	3.0 Ampere
Automatic Shutoff Solenoid	7.5 Ampere
Tail Lamp	15 Ampere
Lamp Switch Feed	25 Ampere
Accessories	3.0 Ampere
Ether Switch and Cab Relay	10 Ampere
Head Lamp Low Beam	15 Ampere
Head Lamp High Beam	15 Ampere
Front Flood Lamps	25 Ampere
Radio and Night Lamp	10 Ampere
Ignition Switch	15 Ampere
Flasher and Dome Lamp	15 Ampere
Rear Flood lamps	25 Ampere
Wiper	7.5 Ampere
Blower	15 Ampere
Cigarette Lighter	15 Ampere
Instrument Reset	5.0 Ampere
Transmission Control Differential Lock	20 Ampere
Range Switch	3.0 Ampere

Tractor Brakes

Type Hydraulic, Power Assistance, Self-Adjusting,
Several Plate Wet Type Differential Brakes.

Power Shift Transmission

Type Three Speed, Power Shift, Compound Planetary With
Hydraulically Actuated Clusters and a Four Speed Gear Section

Gear Selection 12 Speeds Forward and Three Speeds Reverse

Shift Control Actuated by a Lever on the Console.

Oil Cooler Transmission, Remote Hydraulics, Steering and Brake Oil

Axle, Differential and Planetaries

Mechanical Front Drive (MFD)

Front Axle Spiral Bevel with Planetary Reduction in Hub

Differential Oil Capacity 16 U.S. Quarts (15 Litres)

Planetary Oil Capacity 4.5 U.S. Quarts (4.25 Litres) Each Planetary

Parking Lock System

Parking Lock Actuated By Gear Shift Lever

Differential Lock

Type Hydraulically Actuated By Switch on Control Console

Hydrostatic Power Steering

Type	Gear Pump of Hydraulic Pump
Pump Capacity at 2100 RPM	8 GPM (30.3 l/min)
Steering Pump	Hydrostatic Type, Actuated By the Steering Wheel
Steering Cylinder	Double Action Cylinder

Hitch System

Type of Sensing	Lower Link
Type of Control	Hand Lever
Type of Valve	Three Position-Lift, Hold and Lower
Type of Draft Arms	Rigid, Swing Type or Extendable With Manual Float Adjuster
Type of Hitch	Three Point, Category II
Conversion Hitch Coupler (Available)	Category II To III

Remote Hydraulic System

Pump	Axial Piston Pump, Pressure And Flow Compensated.
Type of Remote Valve	Closed Center, One to Four Sections, Hand Lever Control, Variable Flow Control For Each Section Or Remote Valve With Lock Check
Pump Capacity at 2100 Engine RPM	21 to 23 GPM (80 to 88 l/min)
Maximum System Pressure	2250 PSI (15 503 kPa)(155.03 bar) With a Light Emitting Diode (LED) Service Monitor for Both Transmission Oil Pressure and Transmission Filter Located in the Digital Instrument Cluster
Couplings	ASAE R366 Standard, Fast Removal, Breakaway Type

Power Takeoff

Type of Clutch	Hydraulic Actuated
Rotation	Clockwise
Spline Size	1000 RPM, 21 Splines, 1-3/8 inch (34.9 mm) Diameter
Spline Size - Two Size Conversion Optional	540 RPM, 6 Splines, 1-3/8 inch (34.9 mm) Diameter and 1000 RPM, 21 Splines, 1-3/8 inch (34.9 mm) Diameter
Engine Speed at 2100 RPM	540 or 1000 RPM Shaft Speed

Drawbar

Standard or Yoke Type Slide Type, Takes a 1-1/4 inch
(31.75 mm) Diameter Pin

Roller Drawbar or Yoke Type On Tractors without 3 Point Hitch

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

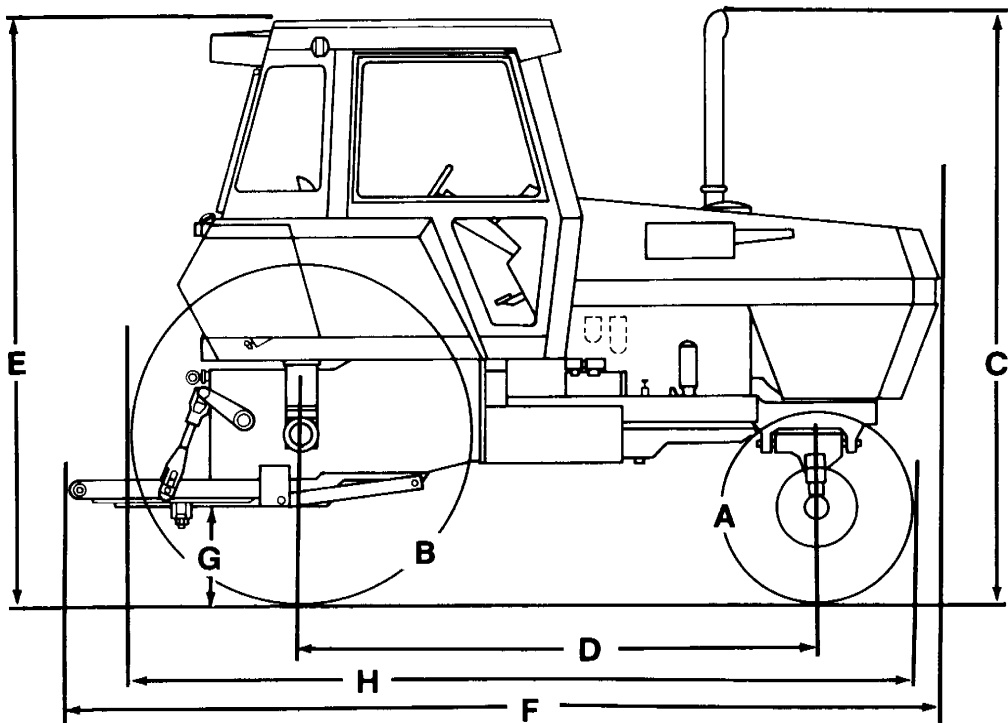
NOTE: When the transmission is in fourth range, you cannot operate the tractor in reverse gear.

TRANSMISSION GEAR	POWER SHIFT			REAR TIRE SIZE
	1	2	3 AND REVERSE	
1	1.8 mph (2.9 km/h)	2.5 mph (4.0 km/h)	3.1 mph (5.0 km/h)	16.9-38
2	3.1 mph (5.0 km/h)	4.2 mph (6.8 km/h)	5.2 mph (8.4 km/h)	
3	4.7 mph (7.6 km/h)	6.3 mph (10.1 km/h)	7.8 mph (12.6 km/h)	
4	9.5 mph (15.3 km/h)	12.7 mph (20.4 km/h)	17.5 mph (28.2 km/h)	
1	1.8 mph (2.9 km/h)	2.4 mph (3.9 km/h)	3.0 mph (4.8 km/h)	18.4-34
2	3.0 mph (4.8 km/h)	4.0 mph (6.4 km/h)	5.1 mph (8.2 km/h)	
3	4.5 mph (7.2 km/h)	6.1 mph (9.8 km/h)	7.6 mph (12.2 km/h)	
4	9.2 mph (14.8 km/h)	12.3 mph (19.8 km/h)	17.0 mph (27.4 km/h)	
1	1.9 mph (3.1 km/h)	2.5 mph (4.0 km/h)	3.2 mph (5.2 km/h)	18.4-38
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	9.9 mph (15.9 km/h)	13.2 mph (21.2 km/h)	18.1 mph (29.1 km/h)	
1	2.0 mph (3.2 km/h)	2.6 mph (4.2 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)	5.6 mph (9.0 km/h)	
3	5.0 mph (8.0 km/h)	6.7 mph (10.8 km/h)	8.4 mph (13.5 km/h)	
4	10.2 mph (16.4 km/h)	13.6 mph (21.9 km/h)	18.8 mph (30.3 km/h)	
1	1.9 mph (3.1 km/h)	2.6 mph (4.2 km/h)	3.2 mph (5.4 km/h)	23.1-34
2	3.3 mph (5.3 km/h)	4.4 mph (7.1 km/h)	5.5 mph (8.9 km/h)	
3	4.9 mph (7.9 km/h)	6.5 mph (10.5 km/h)	8.2 mph (13.2 km/h)	
4	10.0 mph (16.1 km/h)	13.3 mph (21.4 km/h)	18.3 mph (29.4 km/h)	

NOTE: This tractor is made to work constantly at the rated horsepower when the tractor speed is 5 MPH and faster.

APPROXIMATE OVER ALL MEASUREMENTS

104 Inch (2 642 mm) Wheelbase



A	TIRE	WHEEL	B	TIRE	WHEEL
	11.00-16 F2	W8L-16		18.4-38 R1	W16L-38
C	117.75 INCHES (2 991 mm)		E	116 INCHES (2 959 mm)	
D	104 INCHES (2 642 mm)		F	175.5 INCHES (4 458 mm)	
			G	16 INCHES (406 mm)	
			H	157 INCHES (3 988 mm)	

Turning Radius 164.5 inches (4 178 mm)

Turning Radius with Brake Assistance 146.8 inches (3 728 mm)

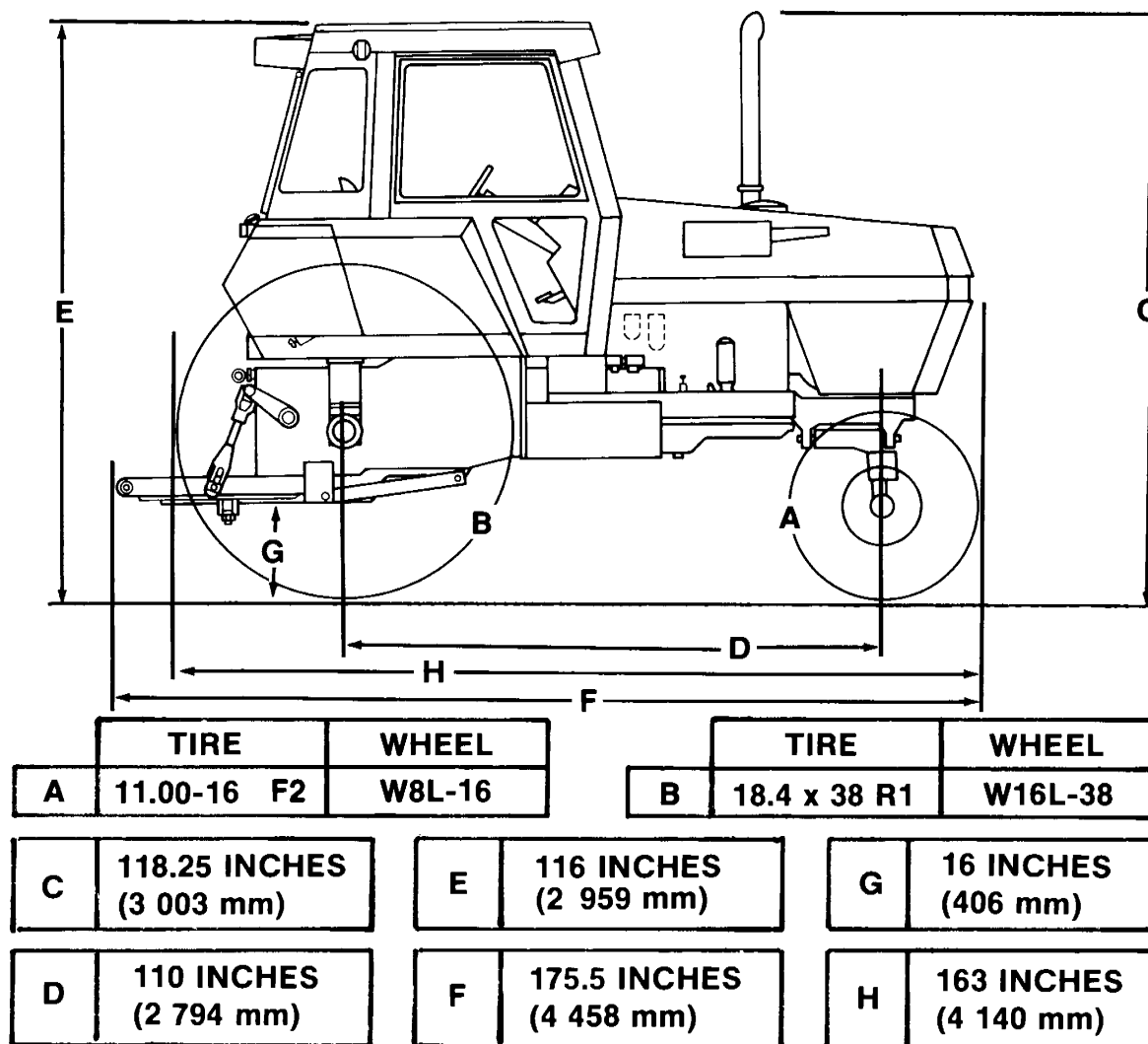
APPROXIMATE TRANSPORT WEIGHT

Approximate Weight of Tractor 10,950 lbs (4 967 kg)
(Equipped with most common optional equipment). Does not include iron weight or liquid ballast.

IMPORTANT: *The total tractor weight with ballast and weights must never be more than 15,600 lbs (7 080 kg).*

OPERATOR'S CAB

THIS CASE OPERATOR'S CAB HAS ROLL OVER PROTECTION AS GIVEN IN ASAE STANDARDS S383, S336.1 AND S310.2; SAE STANDARDS 1194, J167a AND J168a; OSHA REGULATIONS 1928.51 , 1928.53 AND 1926.1002.

APPROXIMATE OVER ALL MEASUREMENT**110 Inch (2 794 mm) Wheelbase**

Turning Radius 182 inches (4 623 mm)
 Turning Radius With Brake Assistance 162 inches (4 115 mm)

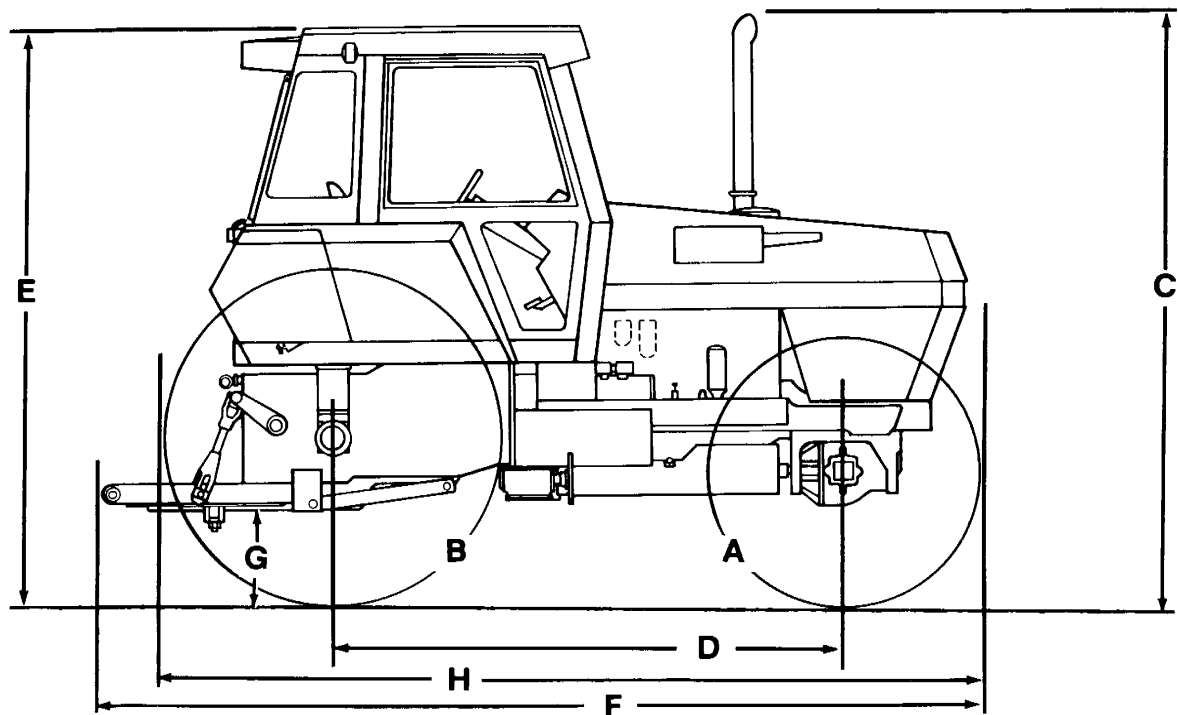
APPROXIMATE TRANSPORT WEIGHT

Approximate Weight of Tractor 12,060 lbs (5 470 kg)
 (Equipped with most common optional equipment). Does not include iron weight or liquid ballast.

IMPORTANT: *The total tractor weight with ballast and weights must never be more than 16,600 lbs (7 532 kg).*

APPROXIMATE OVER ALL MEASUREMENTS

Mechanical Front Drive (MFD)



TIRE		WHEEL		TIRE		WHEEL		
A	14.9 x 28 R1	W12-28		B	18.4 x 38 R1	W16L-38		
C	119.5 INCHES (3 035 mm)		E	116 INCHES (2 959 mm)		G	13.5 INCHES (343 mm)	
D	104 INCHES (2 642 mm)		F	178.5 INCHES (4 534 mm)		H	165 INCHES (4 191 mm)	

Turning Radius 226 inches (5 740 mm)
 Turning Radius with Brake Assistance 197 inches (5 004 mm)

APPROXIMATE TRANSPORT WEIGHT

Approximate Weight of Tractor 13,600 lbs (6 169 kg)
 (Equipped with most common optional equipment). Does not include iron weight or liquid ballast.

IMPORTANT: *The total tractor weight with ballast and weights must never be more than 16,600 lbs (7 532 kg).*

TIRE SIZE ARRANGEMENTS**Mechanical Front Drive (MFD) Only**

The following is a list of approved tire sizes for front and rear tire arrangements. The use of other sizes or arrangements can result in damage to the transmission.

FRONT	REAR
13.6-28 6 ply R1	23.1-30 8 ply R1 16.9-38 6 ply R1 16.9-38 8 ply R1
14.9-28 6 ply R1	23.1-34 8 ply R1 18.4-38 6 ply R1 18.4-38 8 ply R1 18.4-38 6 ply R2 18.4-38 8 ply R2
16.9-28 6 ply R1	23.1-34 8 ply R2 20.8-38 8 ply R2 20.8-38 8 ply R1

TIRE AND WHEEL EQUIPMENT

Front

TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE PRESSURE SEE NOTE 1, 2 & 3
10.00-16	6	W8L-16	F2	28 PSI (193 kPa)(1.93 bar)
11.00-16	6	W8L-16	F2	28 PSI (193 kPa)(1.93 bar)
14L-16.1	6	W11L-16	F2	24 PSI (166 kPa)(1.66 bar)

Front - Mechanical Front Drive (MFD) Only

TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE PRESSURE SEE NOTE 1, 2 & 3
13.6-28	6	W12-28	R1	22 PSI (152 kPa)(1.52 bar)
14.9-28	6	W12-28	R1	20 PSI (138 kPa)(1.38 bar)
16.9-28	6	W15-28	R1	18 PSI (124 kPa)(1.24 bar)

Rear

TIRE SIZE	TIRE PLY	RIM SIZE	TREAD TYPE	TIRE PRESSURE SEE NOTES 1, 2 & 3
16.9-38*	6	W14-38	R1	16 PSI (110 kPa)(1.1 bar)
16.9-38	8	W14-38	R1	16 PSI (110 kPa)(1.1 bar)
18.4-34	6	W16L-34	R1	16 PSI (110 kPa)(1.1 bar)
18.4-38	6	W16L-38	R1 & R2	16 PSI (110 kPa)(1.1 bar)
18.4-38	8	W16L-38	R1 & R2	20 PSI (138 kPa)(1.38 bar)
20.8-38	8	W18L-38	R1 & R2	18 PSI (124 kPa)(1.24 bar)
23.1-30*	8	DW20-30	R1	16 PSI (110 kPa)(1.10 bar)
23.1-34	8	DW20-34	R1 & R2	16 PSI (110 kPa)(1.1 bar)

*** MFD ONLY**

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