

SPECIFICATIONS

SECTION I

SPECIFICATIONS

Rick's Agri-Parts
Rick Stair

ENGINE

Number of Cylinders	6
Firing Order	1-5-3-6-2-4
Bore	4.75 in (12.065 cm)
Stroke	5.5 in (13.97 cm)
Piston Displacement	585 cu in (9.6 liters)
Compression Ratio	15.3:1
Engine Speed (rpm)	
Idle Speed	775-825
Rated Speed	2200
High No-Load Speed	2305-2365
Timing	
Static	4° ATDC
Nozzle Opening Pressure	
New	2800 psi (196.84 kg/cm ²)
Used	2600 psi (182.78 kg/cm ²)
Engine Operating Temperature	175 to 212° F (80 to 100° C)
Valve Clearance Adjustment (cold-static)	
Intake	0.010 in (0.254 cm)
Exhaust	0.020 in (0.508 cm)
Normal Engine Oil Pressure	50-60 psi (3.52-4.22 kg/cm ²)
PTO Horsepower	145 (108.1 kw)

ENGINE OIL

<u>Air Temperature</u>	<u>SAE Grade</u>	<u>Classification</u>
Below +10° F (-12° C)	10-10W or 10W-30	API Service CD
+10° to +32° F (-12° C to 0° C)	10W-30	API Service CD
+32° to +80° F (0° C to 27° C)	30 or 10W-30	API Service CD
Above +80° F (27° C)	30	API Service CD

NOTE: If engine is being operated on fuel having sulphur content of less than 0.5%, API Service CC oil may be used.

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FUEL SPECIFICATIONS

Diesel Engine

Use No. 1-D fuel with minimum cetane rating of 50 where temperatures range below plus 32 degrees F (0 degrees C).
Use No. 2-D fuel with minimum cetane rating of 45 when temperatures remain above plus 32 degrees F (0 degrees C).

For cold weather operation, always specify fuel with a pour point 10 degrees F (5.6 degrees C) below minimum temperature in which engine is to be started.

Maximum allowable percent of sulphur by weight is .50 for 1-D fuel and 1.0 for 2-D fuel. High sulphur content fuel requires an engine lubricating oil with high detergent characteristics to prevent carbon build up in nozzles and combustion chambers and to neutralize acid created by sulphur. For these reasons, engine lubricating oil recommendations and sulphur content specifications are very important and should be closely followed.

UNIT CAPACITIES

	U.S. Measure	Metric Liters	Imperial Measure
Cooling System . . . . .	.33 qt.	.31.23	.27.5 qt
Add for Cab Heater . . . . .	.1.5 qt	.1.42	.1.25 qt
Main Fuel Tank . . . . .	.40 gal	.151.41	.33 gal
Wheel Guard Fuel Tanks (Each) . . . . .	.39 gal	.147.63	.32.5 gal
Auxiliary Fuel Tank . . . . .	.20 gal	.75.70	.16.6 gal
Crankcase (Without Filters) . . . . .	.15 qt.	.14.2	.12.5 qt
Crankcase (With Filters) . . . . .	.17 qt.	.16.09	.14.2 qt
Transmission and Final Drive			
With Three-Point Hitch . . . . .	.43 qt.	.40.70	.35.75 qt
Without Three-Point Hitch . . . . .	.47 qt.	.44.48	.39.25 qt
Over/Under Hydraulic-Shift with Filter . . . . .	.3.5 qt	.3.31	.3 qt
Rear Planetary Drives (Each) . . . . .	.8 qt	.7.57	.6.5 qt
Front Wheels . . . . .	.0.5 lb	.226.8 g	.0.5 lb
Hydraulic System Reservoir			
With Three-Point Hitch . . . . .	.33 qt.	.31.22	.27.5 qt
With Remote Only Hydraulics . . . . .	.36 qt.	.34.07	.30 qt
3 in External Cylinder . . . . .	.0.75 qt	.0.71	.0.5 qt
4 in External Cylinder . . . . .	.1.5 qt	.1.42	.1.25 qt
Fluid for 5 Feet of Hose . . . . .	.0.5 pt	.0.24	.0.5 pt

TRACTOR DIMENSIONS (APPROXIMATE INCHES – CENTIMETERS)

	Rick's Agri-Parts Rick Stair	ROW CROP ADJ FRONT 11.00 x 16 18.4-38
Ground Clearance		
Center of Front Axle . . . . .	.20.5	.52.07
Rear Axle Carrier . . . . .	.27.31	.69.37
Rear Frame (Drawbar and Anchor Removed) . . . . .	.20	.50.08
Overall Height		
Top of Cab . . . . .	.113	.287.02
Top Of Exhaust Cap (Without Extension) . . . . .	.100.	.254.00
Top of Steering Wheel (Uppermost Position) . . . . .	.85.31	.216.69

SPECIFICATIONS

TRACTOR DIMENSIONS (Cont'd)

Overall Width (Absolute Minimum) . . . . .	.81.5	207.01
Overall Length . . . . .	.183	464.82
Wheelbase . . . . .	.111	281.94
Turning Radius (Without Brakes) . . . . .	.150	381.00
Wheel Treads		
Front . . . . .	.61-85	154.94-215.9
Rear 18.4-38, 20.8-38 tires . . . . .	.61*	154.94
	.69	175.26
	.76	193.04
	.84	213.36
	.91	231.14
	.86	218.44

Rick's Agri-Parts
Rick Stair

23.1-34 tires

*Narrow position with wheel guards, with cab or wheel guard fuel tanks 67.5 in (171.45 cm) minimum.

TRAVEL SPEEDS AT 2200 RPM

18.4-38 Tires – 31.4 in (79.8 cm) Loaded Radius

Gear	Under		Direct		Over	
	MPH	KMH	MPH	KMH	MPH	KMH
1	1.5	2.41	1.8	2.90	2.1	3.38
2	2.7	4.35	3.3	5.31	3.9	6.28
3	3.6	5.83	4.3	6.92	5.2	8.37
4	4.8	7.72	5.7	9.17	6.9	11.10
5	6.6	10.62	8.0	12.87	9.6	15.45
6	11.7	18.83	14.1	22.69	16.9	27.20
R1	1.8	2.83	2.1	3.38	2.6	4.18
R2	4.3	6.92	5.2	8.37	6.3	10.14

20.8-38 Tires – 32.5 in (82.6 cm) Loaded Radius

Gear	Under		Direct		Over	
	MPH	KMH	MPH	KMH	MPH	KMH
1	1.5	2.41	1.8	2.90	2.2	3.54
2	2.8	4.51	3.4	5.47	4.0	6.44
3	3.7	5.95	4.5	7.24	5.4	8.69
4	4.9	7.88	5.9	9.49	7.1	11.42
5	6.9	11.10	8.3	13.35	9.9	15.93
6	12.1	19.47	14.6	23.49	17.5	28.16
R1	1.8	2.83	2.2	3.54	2.6	4.18
R2	4.5	7.24	5.4	8.69	6.5	10.46

23.1-34 Tires – 31.5 (80.0 cm) Loaded Radius

Gear	Under		Direct		Over	
	MPH	KMH	MPH	KMH	MPH	KMH
1	1.5	2.41	1.8	2.90	2.1	3.38
2	2.7	4.35	3.3	5.31	3.9	6.28
3	3.6	5.83	4.3	6.92	5.2	8.37
4	4.8	7.72	5.8	9.33	6.9	11.10
5	6.7	10.78	8.0	12.87	9.6	15.45
6	11.7	18.83	14.2	22.83	17.0	27.35
R1	1.8	2.83	2.1	3.38	2.6	4.18
R2	4.4	7.08	5.2	8.37	6.3	10.14

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TIRE INFLATION AND LOAD RECOMMENDATIONS

Front Tires

Tire Size	Ply	Tread	Load @ Specified Tire Pressure			
			PSI	Load (lbs)	Kg/cm ²	Load (kg)
11.00-16	6	F2	28	2520	2.0	1143
11.00-16	8	F1	36	2920	2.5	1325
11.00-16	8	F2	36	2920	2.5	1325
14L-16.1	6	F2	24	2850	1.7	1293

Rear Tires

Tire Size	Ply	Tread	Load @ Specified Tire Pressure			
			PSI	Load (lbs)	Kg/cm ²	Load (kg)
18.4-34	6	R1	16	4970	1.1	2254
18.4-34	6	R2	16	4970	1.1	2254
18.4-38	8	R1	20	5990	1.4	2717
18.4-38	8	R2	20	5990	1.4	2717
20.8-38	8	R1	18	6820	1.3	3094
23.1-34	8	R1	16	7110	1.1	3225
23.1-34	8	R2	16	7110	1.1	3225
24.5-32	10	R1	20	8700	1.4	3946

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HYDRAULIC SYSTEM

Hydraulic Pump

Capacity @ 2200 rpm	20 gpm (75.7 liters/min)
System Pressure Setting	2175-2225 psi (152.9-156.4 kg/cm ²)
Relief Valve Setting	2500 psi (175.7 kg/cm ²)

External Lift Cylinders (6,000-Lb Lift-Hitch for Categories II and III)

Number	2
Diameter	3 in (7.62 cm)
Length of Piston Stroke	8 in (20.32 cm)
Lifting Time @ 2200 rpm	1.5 sec
Lift Capacity (24" beyond hitch points)	6000 lbs (2722 kg)

Hitch Safety Valve Setting 2540-2660 psi (178.56-187.00 kg/cm²)

Control Valve

Detent Relief Pressure	2100-2200 psi (147.63-154.66 kg/cm ²)
Thermal Relief Pressure	3500-5000 psi (246.05-351.50 kg/cm ²)

Remote Cylinder

Diameter	3.5 in (8.89 cm)
Length of Stroke	8 in (20.32 cm)
Recommended Lifting Capacity	21100 lbs (9571 kg)

Remote Cylinder

Diameter	4 in (10.16 cm)
Length of Stroke	8 in (20.32 cm)
Recommended Lifting Capacity	27600 lbs (12519 kg)

SPECIFICATIONS

IGNITION AND ELECTRICAL

Lights

Head Lamps

Type Sealed dual beam
 Size 40 watt
 Capacity 12 volt

Rear Flood Light

Type Sealed beam
 Size 35 watt
 Capacity 12 volt

Rear Tail Lights

Type Bayonet
 Size 4 candle power
 Capacity 12-16 volt

Warning Lamps

Type Bayonet
 Size 32 candle power
 Capacity 12-16 volt

Instrument Background Light and Indicator Lights

Type Bayonet
 Size 2 candle power
 Capacity 12 volt

Alternator61 amp

Tractor Fuses

Lights20 amp
 Instruments 3 amp

Cab Accessory Fuses

Compressor Clutch 8 amp

Blower

Lo15 amp
 Med20 amp
 High30 amp

Circuit Breakers

Cab Accessories Except Condenser Motors30 amp
 Cab Condenser Motors40 amp
 Front Windshield Wiper 8 amp
 Side Windshield Wiper 8 amp

Battery

Number 2(12 volt)
 Capacity 95 amp hr (each)
 AABM/BCI Group No. 30 H

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POWER TAKE-OFF

	<u>540 rpm</u>	<u>1000 rpm</u>	<u>Engine Speed</u>
Shaft Speed at Engine Speed of 2200 rpm	544 rpm	1007 rpm	2200 rpm
Shaft Rotation	Clockwise	Clockwise	Counterclockwise
Shaft Size	1.38 in (3.492 cm)	1.38 in (3.492 cm)	1.38 in (3.492 cm)
Length of Spline	3 in (7.62 cm)	2.75 in (6.985 cm)	2.75 in (6.985 cm)
Number of Splines	6	21	21

SPECIFICATIONS

DRAWBAR ADJUSTMENT AT HITCH POINT (IN INCHES - CENTIMETERS)

Regular Drawbar

Horizontal (at maximum length)	26.25 (66.68 cm)
Vertical	2.88 (7.30 cm)
Length	6.13 (15.56 cm)

Wide Swinging Drawbar





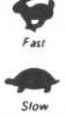

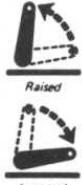

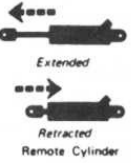

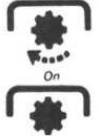

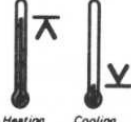


Horizontal	37.5 (95.25 cm)
Vertical	2.5 (6.35 cm)
Length	1.5 (3.81 cm)

Extra Heavy Duty Wide Swinging Drawbar

Horizontal	35.5 (90.17 cm)
Vertical	10.5 (26.67 cm)
Length	2 (5.08 cm)

OPERATOR CONTROL SYMBOLS

Increased use of worldwide graphic symbols instead of words are now being adapted to identify operator controls. Become familiar with symbols listed below (most of which are used on this tractor) so they can be recognized quickly.

 Engine Oil Pressure	 Water Temperature	 Ammeter or Generator Light	 Fuel	 Speed Range
 Engine R.P.M.	 Rockshaft	 Turn Signals	 Remote Cylinder	 Control Lever Operating Direction
 Power Take off	 Windshield Wiper	 Temperature Control	 Engage or In Disengage or Out Connection	 Fuel Shut-off