



MODEL 1394

General Purpose Tractor

77 (58 kW) gross engine horsepower

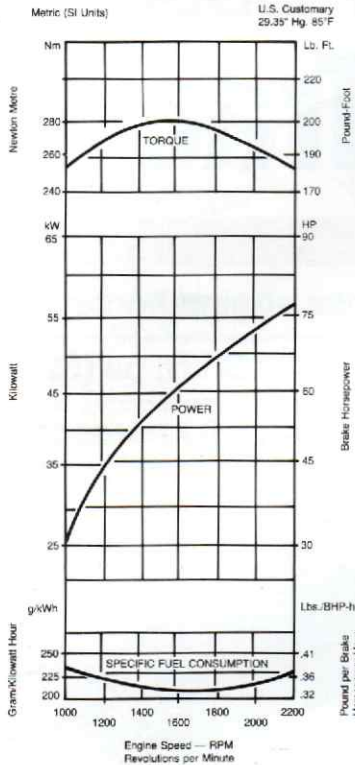
72 D.I.N. ps (52 kW)

65 (48 kW) PTO horsepower



BASIC TRACTOR

ENGINE PERFORMANCE CURVE



ENGINE

Engine Full Load Performance

Maximum horsepower measured at 2200 rpm
 S.A.E. gross engine 77 (58 kW)
 D.I.N. ps 72 (52 kW)
 PTO 65 (48 kW)
 Max torque pound-foot @ 1400 rpm 207 (282 Nm)
 Type: 4-cylinder, in-line direct injection, turbo-charged diesel engine, cross-flow porting
 Fuel No. 2 Diesel
 High idle 2350 rpm
 Low idle 750 rpm
 Displacement 219 C.I.D. (3.6 L)
 Bore and stroke 3.94 x 4.5" (100 x 114 mm)
 Compression ratio 16.1
 Cylinder bores: cast in block, mono-chrome iron
 Crankshaft: high strength forged steel, statically and dynamically balanced

Lubrication System

Positive displacement gear pump with full flow oil filter

Fuel System

Fuel pump type: distributor with automatic cold start retard feature

Starting Aid

Thermostart which provides heated fuel injection into intake manifold and is activated by the starter switch

Fuel Filtering System

Preliminary fuel filter type and location: screen and sediment bowl located on the primary fuel pump
 First and second stage fuel filter type: micron paper elements.

Cooling System

Type: pressurized 10 psi (69 kPa), thermostat controlled bypass, forced circulation
 Radiator: heavy-duty fin and tube type

ELECTRICAL SYSTEM

Type: 12 volt negative ground
 Standard alternator: 45 amp
 Optional alternator w/cab, 65 amp
 Batteries: 12 volt, 96 amp

Lighting Equipment and Marking Identification

Front headlights with sealed Hi-Lo beam 2
 Taillights 2
 Amber combination flashing warning and directional signal lights, fender mounted 2
 Rear flood light 1
 Slow moving vehicle emblem 1
 Optional roof mounted cab
 Front flood lights 2
 Rear flood lights 2

CAPACITIES

Engine cooling system 14.8 qt (14 L)
 Fuel tank, standard 19 gal (72 L)
 Fuel tank, cab 26 gal (98 L)
 Engine oil 7.9 qt (7.5 L)
 Transmission and hydraulic oil system 31 qt (29.3 L)

AXLE CAPACITIES

Front, std 2WD 6,000 lbs (2 722 kg)
 Front, MFD 10,000 lbs (4 536 kg)
 Rear 9,000 lbs (4 082 kg)

TRANSMISSION

Standard, Synchronesh

Transmission operation: manual on-the-go synchronesh shift on 2nd and 3rd gears within each of four gear speed selections

Ground Speed Selections

12 forward and 4 reverse speeds

Transmission Operation and Gear Selection

Two gear selection levers located at left of operator and one synchronesh speed selection lever located at right of operator

Optional Power Shift Transmission

Operation: 4 on-the-go power shifts in each of three gear selections
 Transmission operation and gear selections: one manual selection range shift lever located at right of operator and one

power shift selection lever located on the right of the instrument panel

Type of Clutch

Double dry disc, foot pedal actuation
 Dia of transmission clutch: 12" (305 mm)

Differential Lock

Operation: mechanical engagement by foot pedal located on right floor board, disengaged by spring pressure on braking

Outboard Reductions

Type: pinion and spur gear, housings can be rotated from standard horizontal position to convert from high clearance or low clearance

Hi-clearance — rear axle increase over standard height (72° rotation of reduction housing) — 6.4" (162.6 mm)

Lo-clearance — decrease below standard height (36° rotation of reduction housing) — 4" (101.6 mm)

*APPROXIMATE TRACTOR SPEEDS IN MPH AND (KM/H) AT 2200 RPM

GEAR SELECTIONS	SYNCHROMESH SPEED SELECTIONS				REAR TIRE SIZE
	1	2	3	R	
1	1.2 mph (2.0 km/h)	2.0 mph (3.4 km/h)	3.3 mph (5.6 km/h)	1.9 mph (3.2 km/h)	16.9x 30 R1
2	2.3 mph (3.9 km/h)	3.9 mph (6.5 km/h)	6.6 mph (11.2 km/h)	3.8 mph (6.5 km/h)	
3	2.9 mph (4.9 km/h)	4.9 mph (8.3 km/h)	8.4 mph (14.3 km/h)	6.9 mph (11.1 km/h)	
4	5.9 mph (10.1 km/h)	9.7 mph (16.5 km/h)	16.8 mph (28.6 km/h)	9.7 mph (16.5 km/h)	

OPTIONAL (CREEPER SPEC.) SELECTIONS FOR SYNCHROMESH TRANSMISSION ONLY (Reduction Ratio ... 3.714)

GEAR SELECTIONS	SYNCHROMESH SPEED SELECTIONS				REAR TIRE SIZE
	1	2	3	R	
C	0.3 mph (.5 km/h)	0.5 mph (.9 km/h)	0.9 mph (1.5 km/h)	0.5 mph (.9 km/h)	16.9x 30 R1

*APPROXIMATE SPEEDS IN MPH AND (KM/H) AT 2200 RPM WITH 12-SPEED POWER SHIFT TRANSMISSION

GEAR SELECTIONS	SYNCHROMESH SPEED SELECTIONS				REAR TIRE SIZE
	1	2	3	4	
1	1.1 mph (1.8 km/h)	1.5 mph (2.5 km/h)	2.0 mph (3.2 km/h)	2.7 mph (4.4 km/h)	16.9x 30 R1
2	3.0 mph (4.9 km/h)	4.1 mph (6.7 km/h)	5.5 mph (8.6 km/h)	7.3 mph (11.8 km/h)	
3	7.1 mph (11.5 km/h)	9.7 mph (15.7 km/h)	12.7 mph (20.4 km/h)	17.3 mph (27.9 km/h)	
R	3.1 mph (5.0 km/h)	4.3 mph (6.9 km/h)	5.6 mph (9.0 km/h)	7.6 mph (12.3 km/h)	

16.9 x 30 R1 Tire Rolling Radius — 27.36" Final Drive Ratio — 11:49
 To calculate approx. speeds with following tires —

14.9 x 24 multiply by 0.85
 16.9 x 24 multiply by 0.88
 18.4 x 26 multiply by 0.97
 13.6 x 38 multiply by 1.10

*Note: Speed specifications after P.I.N. #11503001

BASIC TRACTOR

BRAKES

Type: drum
 Width of shoe: 3.5" (88.9 mm)
 Drum diameter: 8.5" (215.9 mm)
 Operation: pedal actuated mechanical system, with parking brake on standard and low profile special models. Pedal actuated hydraulic system on cab models

HYDROSTATIC POWER STEERING

Pump: balanced rotor, direct engine drive
 Steering reservoir location: integral with pump
 Steering reservoir capacity: 1.32 qt (1.25 L)
 Pump capacity at max engine rpm: 7.8 gpm (30 L/m)
 Maximum pressure 1550 psi (10 687 kPa)

Steering control pump: hydrostatic type, integral and bi-directional gerotor. Metering section actuated by steering wheel

Steering Cylinders:

Location: transverse mounted behind front axle
 Type: equal displacement, equal steering speed right and left
 Max wheel turns lock to lock 3/4
 Steering wheel diameter ... 15" (381 mm)

HYDRAULIC SYSTEM

Type: open center, in-series system with priority to remote valves and then to hitch valve
 Type hydraulic pump: pressure balanced tandem gear pumps, engine crankshaft driven system. Flow selection to hitch remotes or combined outputs to remotes is controlled by manually operated combining valve located on right hand side operating console
 Maximum capacity @ maximum engine rpm 15.3 gpm (57.9 L/m)
 Maximum relief pressure 2500 psi (17 236 kPa)
 Type filtration: full flow, paper micronic element, pressure type
 Filter location: at rear of remote valve on rear axle housing

REMOTE HYDRAULICS

Remote implement hydraulic cylinder control
 Operation: double acting, can be converted to single acting and float; first valve has float position as standard
 Control valve: open center type, return to neutral detent position

Combining selector valve provides for hitch and remote valve operations or diverts total hydraulic capacity to remotes

Number of remote outlets, std/opt one/two/three
 Maximum flow @ remote outlets:
 Tandem pumps operating in split flow modes 6.6 gpm (25 L/m)
 Tandem systems in combined mode 15.3 gpm (58 L/m)
 Maximum pressure 2500 psi (17 236 kPa)
 Remote return valve return to neutral kickout pressure 2300 psi (15 857 kPa)
 Recommended cylinder size for best performance:
 With both systems combined 3 1/2" x 8" (89 x 203 mm)
 With split flow to hitch and remotes 2 1/2" x 8" (63 x 203 mm)

THREE POINT HITCH

Type sensing: double-acting top link, transfers mounted implement weight to rear tractor wheels for additional traction when encountering heavy draft conditions
 Rockshaft lift cylinder, dia and stroke 3.5" x 3.937" (89 x 100 mm)
 Operating pressure to rockshaft 2500 psi (17 236 kPa)
 Hitch hold relief pressure 2500 psi (17 236 kPa)
 Type implement control: draft and position control
 Hitch system selection: dial selection lever located at rear of hydraulic operating levers
 Operating lever control: one operating lever with adjustable index position. Draft and position control operations are controlled by one operating lever
 Draft arms: swinging type with fixed or float position on lift links, adjustable lift link and turnbuckle leveling adjustment, sway chains
 Stabilizers: adjustable for telescoping or fixed no-sway positions
 Category I & II linkage: reversible end for end to convert Category I & II
 Maximum lifting capacity @ draft arm link ends 4000 lbs (1 814 kg)
 Maximum lifting capacity @ 24" (610 mm) load centers to rear of hitch balls 3200 lbs (1 450 kg)
 Linkage lifting range 8-32" (203-813 mm)

POWER TAKE OFF

Performance: PTO/hp @ max engine rpm 65 (48 kW)
 Power take off shaft includes shield and protective cover
 Type: standard 540/1000 rpm reversible shaft, dual speed, independent
 Type PTO clutch control: independent manually operated lever in conjunction with on/off gear lever
 Shaft type, reversible... 540 rpm, 6 spline: 1000 rpm, 21 spline
 Shaft diameter 1.375" (35 mm)
 Rotation — from rear: clockwise

DRAWBAR

Type: swinging, sliding, extensible, height adjustable
 Standard with 3 point hitch
 Dimensions 2" x 1.5" (50.8 x 38 mm)
 Total swing range 13" (330 mm)
 Number of extended position adjustments 2
 Height adjustments 11-17" (279-432 mm)
 Pin hole diameter 1" (25.4 mm)

WHEEL EQUIPMENT STANDARD MODEL

Standard front tires 7.50 x 16, 6 PR (F2)
 Standard rear tires 16.9 x 30, 6 PR (R1)
 Manual adjust
 Optional rear tires 16.9 x 30, 6 PR (R1)
 Power adjust
 13.6 x 38, 6 PR (R1)
 Manual adjust
 15.5 x 38, 6 PR (R1)
 Power adjust

MFD (Mechanical Front Drive)

Matching wheel equipment	
Front	Rear
12.4 x 24, 6 PR (R1)	18.4 x 30, 6 PR (R1)
	16.9 x 34, 6 PR (R1)
	13.6 x 38, 6 PR (R1)

AVERAGE SHIPPING WEIGHT

General purpose low profile with 2-post ROPS standard 5,700 lbs (2 587 kg)
 ROPS Cab 6,560 lbs (2 975 kg)
 MFD, std. 6,340 lbs (2 875 kg)
 Max operating weight for tractor with normal field operating equipment:
 ROPS model 9,800 lbs (4 445 kg)
 Cab model 10,500 lbs (4 763 kg)

BASIC TRACTOR

STANDARD EQUIPMENT

Anti-freeze solution. Air cleaner system — 8" (203 mm) dry type with safety back up element and restriction warning light, heavy-duty centrifugal pre-cleaner. Alternator — 45 amps on standard; 65 amps on cab models. Brakes — foot-operated and parking brake. Clutch — foot-operated for transmission and hand-operated for independent PTO. Differential lock — mechanical, foot-operated. Drawbar — swinging, fixed and sliding type, extendable and height adjustable. Engine — 4-cylinder diesel, turbo-charged 219 in³ (3.6 L). Fenders — flat top. Front axle — telescoping with tread adjustments in 4" (102 mm) increments. Axle capacity @ 64" (1.63 m) centers — 6,000 lbs (2 727 kg). Std. min./max. tread — 56-80" (1.42-2.03 m) with standard 7.50 x 16 tires. Fuel tank location: ROPS model, under hood. Cab model, under platform. Heavy duty box section main frame. Hitch — Category I and II with mechanical float, telescoping stabilizers, draft and position control. Hood — tilting.

Hydraulics — open center, tandem pump system, single double acting remote valve and couplings. Lights — 2 front mounted sealed beam headlights, 1 fender mounted rear floodlight, 2 tail lights, front/rear flasher warning lights, direction indicators. Muffler — vertical, removable type. Neutral start ignition switch. Platform — straddle mounted floorboards. PTO — 540/1000 rpm independent, reversible dual speed shaft, shield and shaft protective cover. PTO max hp 65 hp (48 kW). Rear wheel tread settings with 16.9 x 30 manual adjust wheels — 56-80" (1.42-2.03 m). ROPS — 2-post with seat belt (foldable feature). Seat — standard model, deluxe vinyl covered comfort seat, ratchet fore/aft adjustment, weight and backrest adjustment. Seat — cab model, deluxe cloth seat, ratchet fore/aft adjustment, height, weight and backrest adjustments. SMV safety emblem. Steering — hydrostatic with transverse mounted ram. Thermostat starting aid. Throttle — hand and foot. Toolbox. Transmission — 12 forward, 4 reverse, synchromesh. Wheel equipment: Front — stamped wheels, 7.50 x 16, 6PR (F2) tires; Rear — pressed steel center, 16.9 x 30, 6 PR (R1) tires, manual adjust.

OPTIONAL EQUIPMENT

General purpose cab models include heater, air conditioning, isolator mounted ROPS cab, 65 amp alternator, under platform mounted 26 gal. fuel tank, pedal-actuated hydraulic brakes. Mechanical front wheel drive (MFD). Selection of various sizes of front and rear tires. Range power shift transmission. Up to three double-acting remote valves and couplings. Hi-clearance kit. Special low profile orchard specifications. Underneath muffler. Rear wheel weights. ROPS canopy. Front weight carrier; weight segments. Power adjusted rear wheels. Selection of radio and stereo options.

Mechanical Front Wheel Drive (MFD), options available with synchromesh and powershift transmissions on cab model and synchromesh on standard ROPS model

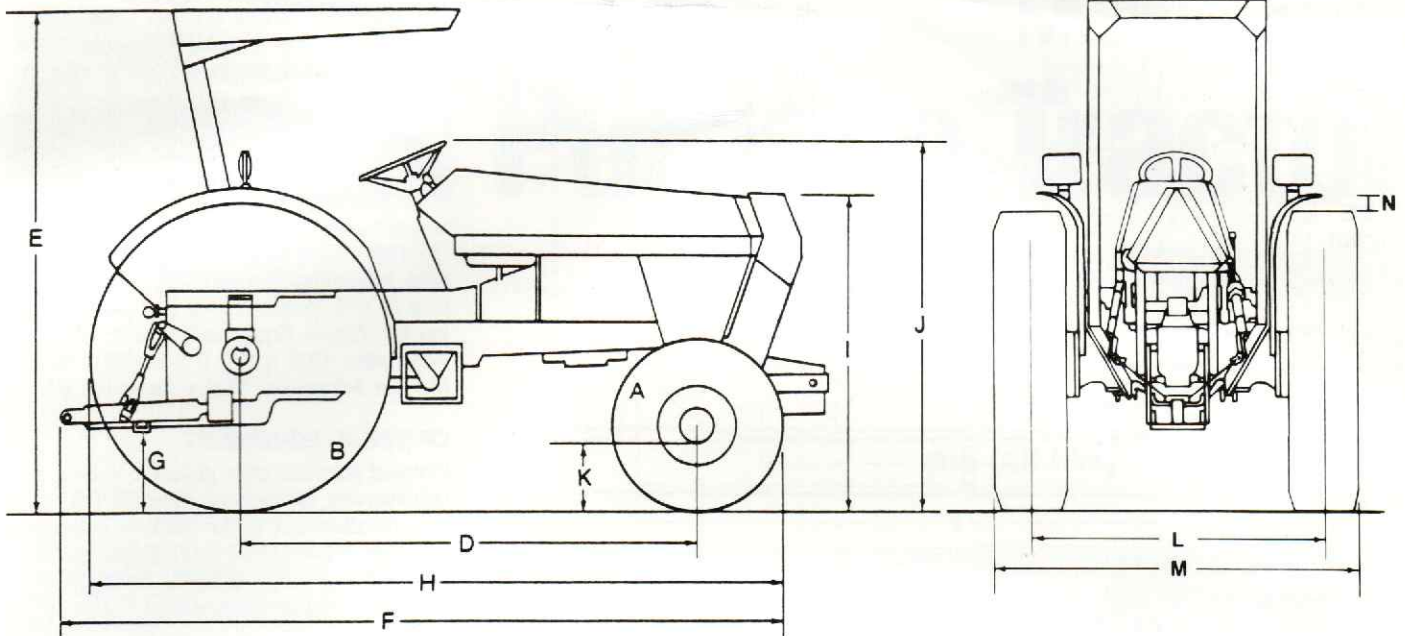
Front axle, adjusting wheel tread settings 60-88" (1.52-2.23 m), in 4" (101 m) increments
Front tires — standard 12.4 x 24
Rear tires —
standard; manual adjust 16.9 x 34
18.4 x 30
Type gear engagement — shift on-the-go
Axle type heavy-duty, one-section construction w/outboard planetaries, limited spin differential
Type of reduction planetary
Under axle ground clearance 17" (432 m)
Turning radius without brakes 178" (4.52 m)
Turning radius with brakes 133" (3.38 m)

CREEPER GEAR SELECTION FOR SYNCHROMESH TRANSMISSIONS ONLY

1st Range Reduction Ratio 3.714

LOW PROFILE SPECIAL TRACTOR

FOR ORCHARDS/GROVES/VINEYARDS



APPROXIMATE DIMENSIONS WITH WHEEL EQUIPMENT AS SPECIFIED (STANDARD)

A.....	9.00 x 10 tires	I.....	50" (1.27 m)
B.....	16.9 x 24 tires	J.....	58" (1.47 m)
D.....	83" (2.11 m)	K.....	14" (355 m)
E.....	92.5" (2.35 m)	L.....	67.5" (1.71 m)
F.....	132.5" (3.37 m)	M.....	85" (2.16 m)
G.....	11" (279 m)	N.....	ADJUSTABLE
H.....	128" (3.25 m)		(6" — 152 mm — adjustment)

WHEEL EQUIPMENT LOW PROFILE SPECIAL matching wheel equipment

Front	Rear	Rear axle position
9.00 x 10, 10PR (F3)	14.9 x 24, 6PR (R1) Fixed center	standard
	16.9 x 24, 6PR (R1) Fixed center	standard

LOW PROFILE SPECIAL EQUIPMENT

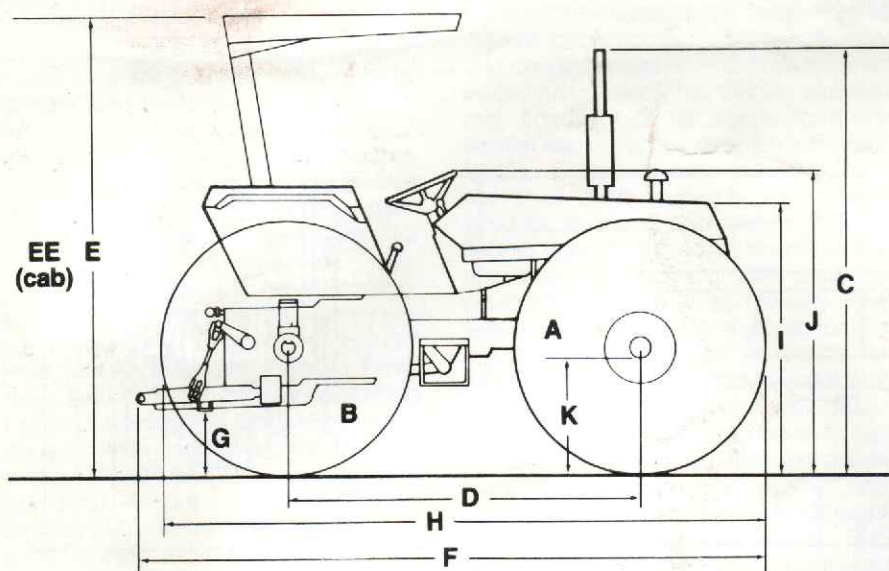
- Air cleaner — under hood
- Fenders — shell, height adjustable
- Front axle — reduced height orchard axle adjustable tread 52-72" (1.32-1.83 m)
- Muffler — downswept system w/horizontal mounted muffler
- Rear wheel tread — fixed 67.5" (1.71 m) w/16.9 x 24 tires
- Rear fender lighting equipment — two amber flashing warning lamps, one tail lamp, two rear reflectors

ORCHARD/GROVE SPECIFICATIONS

Estimated Dimensions with matched wheel equipment

FRONT TIRE SIZE	REAR TIRE SIZE	LOADED RADIUS		LOADED RADIUS DIM HIGHER (+) OR LOWER (-) THAN BASE TRACTOR		ATTITUDE OF TRACTOR		DRAW-BAR CLEARANCE	REAR AXLE REDUCTIONS POSITION STD/ROTATED 36° 36° AXLE HEIGHT BY 4"	REAR WHEEL TREAD WIDTH
		FRONT	REAR	FRONT	REAR	FRONT HIGHER	FRONT LOWER			
9.00x10	16.9x24	12.2"	23.4"					11.0" (279 mm)	Std	Fixed 67.8" (1.72 m)
9.00x10	14.9x24	12.2"	22.4"		-1.0"			10.0" (254 mm)	Std	Fixed 67.8" (1.72 m)

4-WD SPECIAL TRACTOR



DIMENSIONS

A	13.6 x 38 (R2) tires
B	13.6 x 38 (R2) tires
C	101" (2.57 m)
D	78" (1.98 m)
E	107.25" (2.72 m)
EE (cab)	110.25" (2.80 m)
F	148" (3.76 m)
G	23" (584 mm)

H	138" (3.51 m)
I	67" (1.70 m)
J	73" (1.85 m)
K	24" (609 mm)
Min/max wheel tread	
front	76" and 80" (1.93 and 2.03 m)
rear	76" and 80" (1.93 and 2.03 m)
Turning radius without brakes @ 76" (1.93 m) tread	
	16'7" (5.05 m)

*APPROXIMATE TRACTOR SPEEDS IN MPH (KM/H) AT 700 and 2200 ENGINE RPM

GEAR SELECTIONS	ENGINE RPM	SPEED SELECTIONS				TIRE SIZES
		1	2	3	R	
1	700	0.31 mph (0.50 km/h)	0.51 mph (0.82 km/h)	0.90 mph (1.45 km/h)	0.51 mph (0.82 km/h)	13.6 x 38 (R2)
	2200	0.97 mph (1.56 km/h)	1.6 mph (2.57 km/h)	2.8 mph (4.50 km/h)	1.6 mph (2.57 km/h)	
2	700	0.61 mph (0.98 km/h)	1.0 mph (1.61 km/h)	1.8 mph (2.90 km/h)	1.0 mph (1.61 km/h)	
	2200	1.9 mph (3.06 km/h)	3.2 mph (5.15 km/h)	5.6 mph (9.01 km/h)	3.2 mph (5.15 km/h)	
3	700	0.80 mph (1.29 km/h)	1.3 mph (2.09 km/h)	2.3 mph (3.70 km/h)	1.3 mph (2.09 km/h)	
	2200	2.5 mph (4.02 km/h)	4.1 mph (6.60 km/h)	7.1 mph (11.42 km/h)	4.1 mph (6.60 km/h)	
4	700	1.6 mph (2.57 km/h)	2.6 mph (4.18 km/h)	4.5 mph (7.24 km/h)	2.6 mph (4.18 km/h)	
	2200	4.9 mph (7.89 km/h)	8.1 mph (13.03 km/h)	14.1 mph (22.69 km/h)	8.1 mph (13.03 km/h)	

*CREEPER SPEED SELECTION REDUCTION RATIO—3.714

C MPH	700	0.08 mph (0.13 km/h)	0.14 mph (0.23 km/h)	0.24 mph (0.39 km/h)	0.14 mph (0.23 km/h)
	2200	0.26 mph (0.42 km/h)	0.43 mph (0.69 km/h)	0.75 mph (1.21 km/h)	0.43 mph (0.69 km/h)
C Ft/Min	700	7.04 mph (11.33 km/h)	12.32 mph (19.83 km/h)	21.12 mph (33.99 km/h)	12.32 mph (19.83 km/h)
	2200	22.88 mph (36.82 km/h)	37.84 mph (60.90 km/h)	66.0 mph (106.22 km/h)	37.84 mph (60.90 km/h)

*These specifications are for tractors after P.I.N. #11501188

STANDARD EQUIPMENT

Standard equipment on the 1394 4-WD Special is the same as for the regular 1394 General Purpose tractor except as follows: Four equal-sized wheels. 15-speed creeper transmission. Fenders—flat top or adjustable shell. Front axle: H.D. center drive axle; 76" and 80" (1.93 and 2.03 m) tread adjustment with 13.6 x 38 tires. Rear wheel tread: 76" and 80" (19.3 and 2.03 m). Rear axle type: 9:50 gear reduction ratio, reduction units rotated 72°. ROPS: 2-post ROPS, includes seat belt and attaching kit. Wheel Equipment: Front: Manual Adjustable 13.6 x 38, 6 PR (R2). Rear: Manual Adjustable 13.6 x 38, 6 PR (R2).

OPTIONAL EQUIPMENT

General purpose cab, includes heater, air conditioning, isolator mounted ROPS cab, 65 amp alternator, under platform mounted 26 gal (98.4 liters) fuel tank, pedal-actuated hydraulic brakes. Front weight carrier and weight segments.



Attention Worldwide Readers. Local availability, standard specifications and options may vary from those listed or illustrated in this North American publication. Your local Case branch or dealer will gladly advise concerning worldwide availability and recommended specifications.

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