



MODEL 595 Tractor

Utility, 2WD and MFD

39 (52 hp) PTO kilowatt



595 TRACTOR

The Case International 595 tractor with its 4-cylinder diesel engine has the power to handle many chores and tough field work – ploughing, cultivating, disking and planting. With independent 540/1000 PTO, the 595 tractor handles balers, choppers, mowers and blowers with ease. Compact design also makes the 595 a natural for feedlot tasks, or for powering elevators and augers around confined gain bin sites.

GENERAL FEATURES

CASE INTERNATIONAL DIESEL ENGINE

You get a tough, powerful 3.37 L (206 in³) little brute built to take it under heavy loads and hard, continuous use. The direct injection fuel system increases fuel economy and provides maximum work output. Exhaust valve rotators and dual fuel filters provide long life and reduce maintenance.

SYNCHROMESH SPEED TRANSMISSION

The smooth, quiet shift system lets operators go through all 8 forward and 4 reverse speeds easily with minimum gear clash. An optional quick forward-to-reverse shuttle transmission cuts cycle time in loading operations. An optional 16F/8R 2-speed powershift with electro-hydraulic switch control is available.

HIGH-CAPACITY HYDRAULIC PUMP

A real plus. It provides quick response to all hydraulic functions, from power steering and hitch to the remote valves. Standard pump, 65.5 L/min (14.4 gpm).

MFD (Mechanical Front Wheel Drive) (Optional)

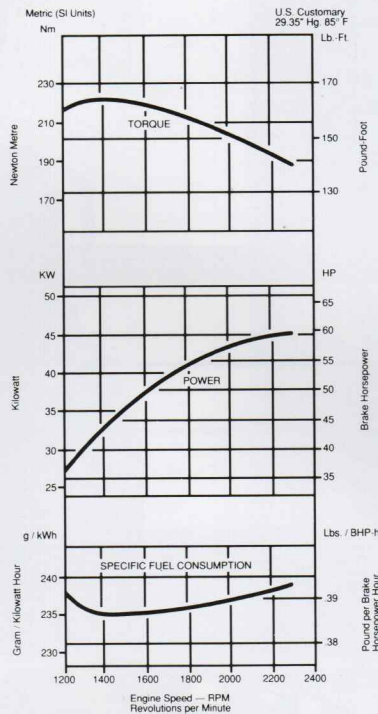
Electro-hydraulic “on-the-go” switch engage/disengage, limited slip differential, centre drive shaft, drive shaft shield protection.

SPECIFICATIONS

ENGINE

Max kW measured at 2300 rpm
 S.A.E. gross engine44 (60 hp)
 S.A.E. net engine42 (56 hp)
 PTO38.77 (52 hp)
 Max gross torque Nm
 at 1400 rpm215
 Make and
 modelCase International D-206
 Piston displacement3.37L (206 in³)
 Number of cylinders4
 Type cylinder sleeveWet
 Speed, rated full load2300 rpm
 Governed speed range700-2590 rpm
 Bore and stroke98.0 x 110 mm
 (3.88" x 4.37")
 Compression ratio16:1
 Starting aidsthermostart

ENGINE PERFORMANCE CURVES



FLUID CAPACITY

Fuel tank ROPS75.7 L (16.7 gal)
 Fuel tank, cab111.7 L (24.6 gal)
 Cooling system13.7 L (3.0 gal)
 Engine lube oil w/filter9.8 L (2.16 gal)
 Transmission and
 hydraulic reservoir34.0 L (7.5 gal)

TRANSMISSION

Standard

Synchromesh 8 speeds forward, 4 speeds reverse with synchronised shifts within each of two ranges.

Powershift option

Two-speed powershift with 16 speeds forward, 8 speeds reverse. Features panel-mounted electro-hydraulic powershift control.

Shuttle option

Synchronised shuttle; 8 speeds forward and 8 reverse. Provides for rolling F/R shifts. F/R lever mounted on left side of instrument panel for quick shifting. Reverse speeds are 25% faster than the corresponding forward speed.

Creep option

Provides 8 forward speeds and 4 reverse speeds standard plus 8 forward and 4 reverse creep speeds.

APPROXIMATE SPEEDS IN KM/H (MPH) w/16.9 x 30 tyres Standard & Powershift transmission

Range	Gear	Direct		Powershift	
		km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
LOW	1	2.72 (1.69)	2.25 (1.40)		
	2	4.41 (2.74)	3.65 (2.27)		
	3	5.97 (3.71)	4.95 (3.08)		
HIGH	1	10.41 (6.47)	8.63 (5.36)		
	2	16.91 (10.51)	14.01 (8.71)		
	3	22.85 (14.20)	18.94 (11.77)		
REV	1	3.25 (2.02)	2.69 (1.67)		
	2	5.30 (3.29)	4.39 (2.73)		
	3	7.16 (4.45)	5.94 (3.69)		
	4	9.20 (5.72)	7.63 (4.74)		

APPROXIMATE SPEEDS Shuttle transmission w/16.9 x 30 tyres

Range	Gear	Direction Lever			
		Forward		Reverse	
		km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
LOW	1	2.72 (1.69)	3.46 (2.15)		
	2	4.41 (2.74)	5.60 (3.48)		
	3	5.97 (3.71)	7.56 (4.70)		
HIGH	1	10.41 (6.47)	13.26 (8.24)		
	2	16.91 (10.51)	21.50 (13.36)		
	3	22.85 (14.20)	29.09 (18.08)		
	4	29.42 (18.28)	34.38 (21.36)		

APPROXIMATE SPEEDS Creeper transmission w/16.9 x 30 tyres

Range	Gear	Direct		Creeper	
		km/h (mph)	km/h (mph)	km/h (mph)	km/h (mph)
LOW	1	2.72 (1.69)	0.31 (0.19)		
	2	4.41 (2.74)	0.50 (0.31)		
	3	5.97 (3.71)	0.68 (0.42)		
HIGH	1	10.41 (6.47)	1.16 (0.72)		
	2	16.91 (10.51)	1.88 (1.17)		
	3	22.85 (14.20)	2.56 (1.59)		
REV	1	3.25 (2.02)	0.37 (0.23)		
	2	5.29 (3.29)	0.60 (0.37)		
	3	7.16 (4.45)	0.80 (0.50)		
	4	9.21 (5.72)	1.03 (0.64)		

16.9 x 30 rolling radius694.9 mm
 (27.36 in.)

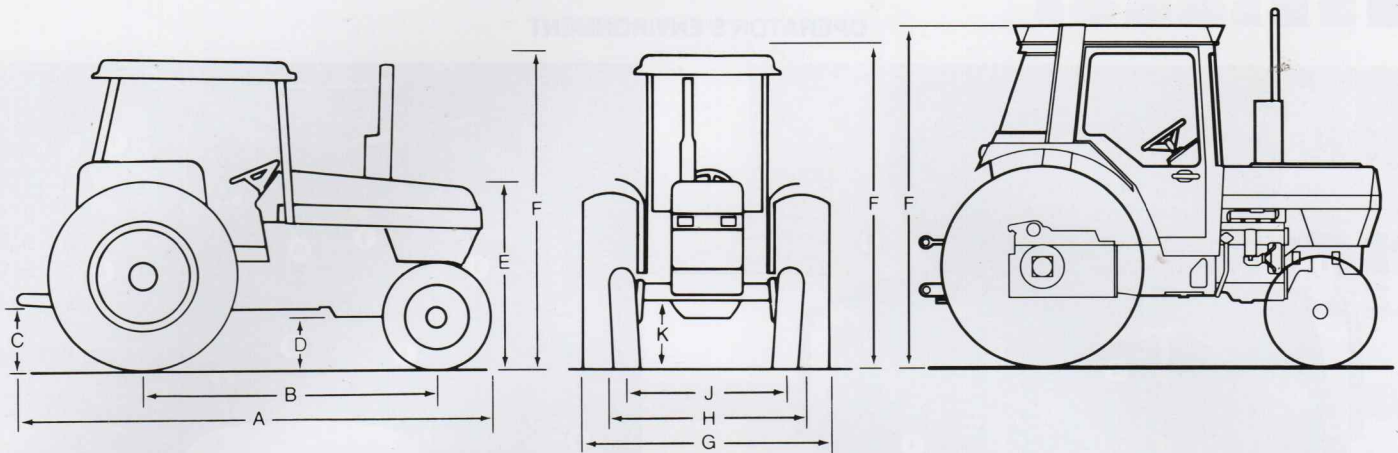
HYDRAULICS

Open-centre system, gear pump type. Standard single hydraulic valve with power-beyond manifold, 2nd valve std. on XL, including ISO couplers. Optional second and third valves with couplers.

Operating pressure2500 psi

Pump capacity
 Standard65.48 L/min. (14.4 gpm)

595 TRACTOR



APPROXIMATE OVERALL DIMENSIONS ROPS/CAB MODELS

	A	B	C	D	E	F	G	H	J	K	
Model Style	Wheel Equipment	Overall Length	Wheel Base	Drawbar* Height	Under Frame Clearance	Hood Height	Height to top of ROPS	Overall Width	Rear Wheeltrack Width	Front Wheeltrack Width	Under Front Axle Clearance
Utility-ROPS 2WD	7.50 x 16 16.9 x 30	3.61 m (142")	2.15 m (84.5")	406 mm (16.0")	439 mm (17.3")	1.5 m (60")	2.45 m (96.5")	1.9 m (75")	1.47 to 1.88 m (58 to 74")	1.32 to 1.96 m (52 to 77")	561 mm (22.1")
Utility-CAB 2WD	7.50 x 16 16.9 x 30	3.61 m (142")	2.15 m (84.5")	406 mm (16.0")	439 mm (17.3")	1.5 m (60")	2.55 m (100.4")	1.9 m (75")	1.47 to 1.88 m (58 to 74")	1.32 to 1.96 m (52 to 77")	528 mm (20.8")
Utility-ROPS MFD	9.5 x 24 16.9 x 30	3.7 m (145.6")	2.24 m (88")	406 mm (16.0")	305 mm (12")	1.5 m (57.9")	2.38 m (93.5")	1.9 m (75")	1.47 to 1.88 m (58 to 74")	1.32 to 1.85m (52 to 73")	368 mm (14.5")
Utility-CAB MFD	9.5 x 24 16.9 x 30	3.7 m (145.6")	2.24 m (88")	406 mm (16.0")	439 mm (17.3")	1.5 m (57.9")	2.55 m (100.4")	1.9 m (75")	1.47 to 1.88 m (58 to 74")	1.32 to 1.85 m (52 to 73")	368 mm (14.5")

* Note: Dimension is taken from the top edge of the drawbar down to the ground surface

Centreline of the axle (rear) to the top of the drawbar 268 mm (10.55").

HITCH

Category II 3-lever control for draft, position and raise response. Outside check chains with stabilizers. Lower links, 838 mm (33") telescoping.

Lift capacity 610 mm (24") behind lift links1061 kg
Lift at hitch ball (horizontal)2000 kg

FRONT AXLES

Dynamic*
Straight adjustable, standard
Cab2802 kg
Non-cab2301 kg
MFD3368 kg

REAR AXLE

Flange style. Differential lock.
Dynamic*
Utility4200 kg
Row crop4203 kg

* Moving measurement working off-road with wheel tread at 1.52 m (60").

WEIGHT

Approximate shipping weight of tractor w/hitch, protective frame, drawbar, one hydraulic valve, PTO, standard tyres, coolant - less fuel, ballast, weights

	ROPS	CAB
Utility	2558 kg	2921 kg
Utility MFD	3032 kg	3395 kg

WHEELS

Selection of manual lug adjust.

TYRES

2WD
Rear 16.9 x 30/6
Front 7.50 x 16/6

MFD Matching Wheel Equipment

Rear 16.9 x 30/6
Front 13.6 x 38/6
12.4 x 24/6

TURNING RADIUS

No brakes
Utility3.8 m (12.5')
W/MFD engaged4.5 m (14.8')
With brakes
Utility3.3 m (10.8')
W/MFD engaged3.4 m (11.0')

OTHER STANDARD EQUIPMENT

Accelerator - hand and foot control
Alternator, 45 amp (75 amp w/cab)
Antifreeze/Coolant
Brake 254 mm (10") single disc, self-adjusting (wet hydraulic w/dual pedal safety lock)
Clutch - self-adjusting, 279 mm (11") diameter dry "Dyna-Life" disk w/six cerametallic wear pads
Dry-type air cleaner with safety element
12-volt 650-CCA 170-min. reserve capacity electrical system with battery ignition, key start
Instrument panel - glare-free lighting; includes air cleaner service light, alternator light, electric fuel gauge, engine temperature gauge, oil pressure light, tachometer and hourmeter

Lighting system - 2 front in grille, 1 combination rear, 2 flashing amber w/turn signal control and 7-terminal electric break-away connector

Mounting step
*Muffler, vertical w/curved exhaust end
Parking brake w/warning light
Electric Horn
Drawbar clevis
Power steering, hydrostatic - 11.4 L/min. (3.0 gpm) priority flow, and 3 turns lock-to-lock; MFD, 4.4 turns
Power take-off, independent, hydraulically actuated 540/1000 rpm
Pressurized transmission lubrication system
Protective frame, ROPS (SAE-OSHA)
Seat, deluxe, w/adjustable suspension
Swinging drawbar

OTHER OPTIONAL EQUIPMENT

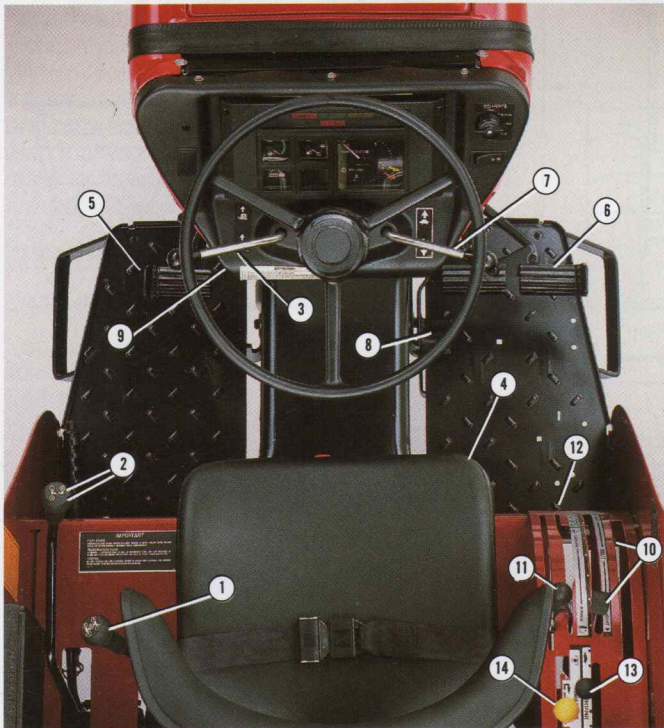
Cab work lights
Canopy for protective frame (ROPS)
Front end and rear wheel weights

* Spark Arresior mandatory in some states of Australia.

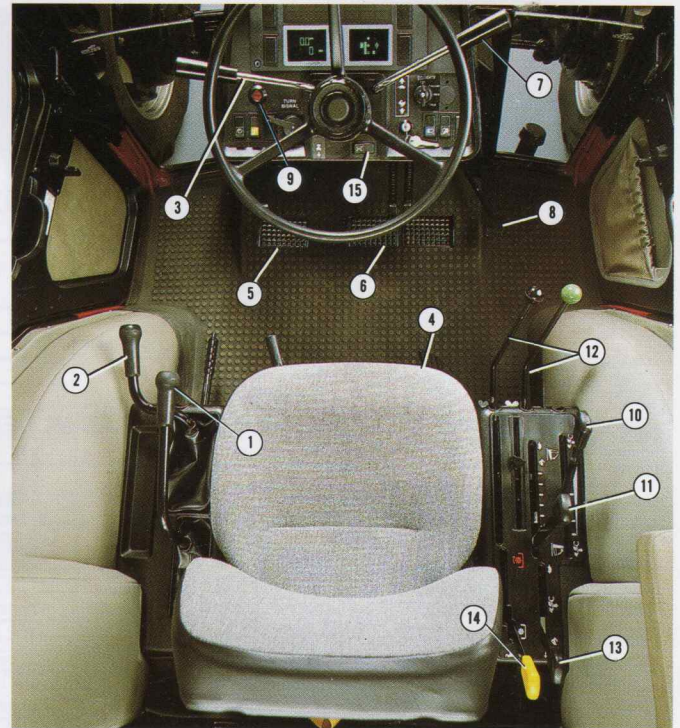
LOADERS

Case International loaders designed for the 595 are available.

OPERATOR'S ENVIRONMENT



ROPS models



Cab models

4-post ROPS

OPERATIONAL ITEMS

Operating controls – functions of the tractor and attaching implements

1. Synchromesh speed selection lever
2. Range selection lever

3. Powershift selection lever with powershift option, or F/R lever with shuttle option, or creeper engagement lever with creeper option
4. Differential lock pedal
5. Clutch pedal
6. Brake pedals with brake pedal latch
7. Engine speed control lever
8. Foot accelerator pedal

9. Engine stop control
10. Draft control lever
11. Position control lever
12. Remote valve levers
13. Hitch raise response lever
14. Independent PTO engage/disengage lever
15. MFD engage/disengage switch

CAB FEATURES

- ISO-mounted, reducing vibration and sound
- Flat deck with left and right side doors
- Doors, gas spring operated, rearward opening
- Full vision front and rear windows with no obstructions
- Rear window opening, gas spring operated, clear vision without corner posts
- Roof ventilation hatch, gas spring operated
- Super deluxe padded interior with sound dampening material
- Console operator controls, left side transmission, right side hydraulic and hitch controls (state-of-the-art in human engineering)
- Deluxe 4-way-adjustable, deep-padded fabric seat
- Vacuum fluorescent instrument panel
- Heater and air conditioner standard; air vents ceiling-mounted for upper body, front windshield and side door window vents lower pillar-mounted for lower body
- Full-width sun visor

- Rear roof-mounted working light standard, with lever adjustment control inside cab
- Two front roof-mounted lights, optional
- 75-amp alternator standard with cab
- Windshield wiper and washer standard
- Right and left door-mounted rearview mirrors, linkage collapsible on hitting obstruction
- Radio-ready-includes wiring and speakers

CAB SPECIFICATIONS

Total glass area2.7m² (29.02 ft²)
 Cab size3.28 m³ (115.83 ft³)
 Type of glazingtinted tempered glass
 Air intake location and air filter locations.....above entryway, both sides
 Blower design ...double radial pressurised
 Blower speeds (3)low, high, purge
 Blower locationfront centre above headliner
 Type recirculation controladjustable louvre, lever operated

Important: The JI Case Company reserves the right to make improvements in design and changes in specifications at any time without notice and without incurring obligation to install them on any units previously sold.

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

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 Standard for Quality Control

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