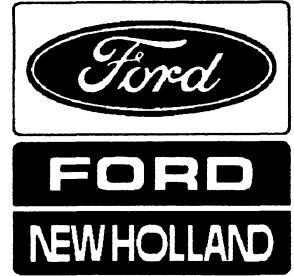


VERSATILE

Service Manual



Tractor
1150



Reprinted

40115010

SECTION 1: SPECIFICATIONS AND DATA

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SECTION 1: SPECIFICATIONS AND DATA

1 Introduction

This section contains general information on specifications, capacities, lubricants, fluids and fuels for the tractor.

2 Hoists and Jacks

Refer to Safety Section at beginning of manual.

3 Specifications

3.1 AIR CLEANER

Type Dual element, dry type with safety element, precleaner, exhaust aspirated, air intake restriction warning light

3.2 AIR CONDITIONER

Charge 3 (3.5 lb)

Oil Level 200 mL (7 oz)

3.3 AXLES

Type Spiral bevel differential unit, outboard planetary, floating ring gear final drive

Differential Ratio 4.63:1

Lubrication SAE 85W140

Oil Capacity 42 L (11.1 gal US)

Planetary Ratio 5.625:1

Final Ratio 26.04:1

3.4 BRAKES

Type
Mechanical Twin disc, twin caliper
Powershift Single disc, twin caliper

Disc
Mechanical 430 mm (17 in.)
driveline mounted on
each side of transmission

Powershift 510 mm (20 in.)
driveline mounted on
each side of transmission

Caliper Twin piston, non-floating,
hydraulically actuated
by foot pedal

Parkbrake Integral with hydraulic brake,
self-adjusting, actuated
by overcenter lever

3.5 CAB

Type Independent module type
with rollover protective structures (ROPS
ASAE S336.1)

Seatbelt SAE J141, SAE J385

3.6 CLUTCH

Type
Mechanical 394 mm (15.5 in.) dia,
three plate dry-type,
safety start switch
Powershift 394 mm (15.5 in.) dia
twin torsional damper,
safety start switch

3.7 COOLING SYSTEM

Capacity 80.4 L (85 qt US)

Radiator Core Area (Frontal) .. 1.25 m² (1 935 in.²)

Fan 915 mm (36 in.) sucker-
type, gear-driven

Pressure Cap 48 kPa (7 psi)

3.8 DIMENSIONS

Wheelbase 3 560 mm (140 in.)
Overall Length 6 890 mm (271 in.)
Nominal Turning Radius 4 630 mm (182 in.)
to centerline of drawbar
Turning Radius
(measure to outside of outer tire) 6 475 mm
(255 in.) with 20.8 × 42 duals
Maximum Operating Weight 20 800 kg (46 500 lb)

3.9 DRAWBAR

Type Swinging clevis of 50 × 150 mm
(2 × 7 in.) steel with wear block.
Replaceable hardened bushing
Height 455 mm (18 in.) to top
of main member

3.10 ELECTRICAL

System Voltage 12 V negative ground
Starting System 24 V negative ground
Batteries Two low maintenance,
8D 29 plates per cell
Alternator 90A, two charge lines
Lamps Two 60W headlights,
eight 50W halogen work lamps,
two red taillights and four flashers
Trailer Connector Cable SAE J560B

3.11 ENGINE

Type Cummins Big Cam III
KTA-1150-C470 inline 6 cylinder tur-
bocharged, aftercooled diesel
Maximum Torque 2 130 N·m (1 570 lbf ft)
at 1 500 r/min
Maximum Brake Horsepower . . . 350 kW (470 hp)
at 2 100 r/min

Full Load Governed Speed 2 100 r/min
Full Throttle (No load) Speed 2 250-
2 300 r/min
Idle Speed 1 000 r/min
Crankcase Capacity 38 L (40 qt US)
Full flow oil filter with bypass oil conditioner
filter and oil to water cooler, 30° angular capaci-
ty oil pan.

3.12 EXHAUST SYSTEM

Muffler One 254 × 381 mm
(10 × 15 in.) dual
Inlet Diameter 127 mm (5 in.)
Outlet Diameter 152 mm (6 in.)

3.13 FRAME

Type 42° angled articulated frame
Oscillation ± 15°
Articulation Lock Bar-type

3.14 FUEL TANKS

Total Capacity 1 515 L (400 gal US)
Type 63.5 mm (2.5 in.) filler neck
on both tanks. Remote breather is 610
mm (24 in.) above tanks

3.15 HYDRAULICS

Tank Capacity
Mechanical 95 L
(25 gal US)
Powershift 83 L
(22 gal US)
Type Closed center; load sensing steering
Pump Two variable displacement
pressure and flow
compensated piston pumps

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