SERVICE MANUAL

D180C
Stage IIIB
Crawler Dozer

PIN NDDC18000 and above; PIN NEDC18000 and above; PIN NFDC18000 and above

Part number 47907878
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Replaces part number 47645621

NEW HOLLAND CONSTRUCTION

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Harnesses and connectors - Electrical schematic sheet 14 - Instrument cluster

D180C WE

Item	Description
1	Battery
2	Up/down switch
3	Menu down
4	Menu up
5	Enter/escape switch
6	Menu enter
7	Menu escape
8	Instrument cluster
9	Unswitched power
10	Fan reverse
11	Fan auto
12	Ignition power
13	Crank
14	Alternator D+
15	Transmission oil filter restriction
16	Hydraulic oil filter restriction
17	Air filter
18	Charge pressure switch
19	Charge pressure
20	Air filter restriction
21	Hydraulic oil filter restriction
22	Transmission oil filter restriction
23	Telematics
24	To the ignition switch

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Fault code 4303 should no longer be active. Fault code 4302 is now active. Fault code 4311 will also be active, ignore this fault code.

A. Fault code 4303 is no longer active. Fault code 4302 is now active. Temporarily replace both solenoids and retest. Return to step **1** to confirm elimination of the fault.

B. Fault code 4303 is still present and active. Fault code 4302 did not become active. Temporarily replace the UCM and retest. Return to step **1** to confirm elimination of the fault.

Harnesses and connectors - Electrical schematic sheet 09 - UCM (55.100-C.20.E.09)
Harnesses and connectors - Electrical schematic sheet 23 - Drive train/pumps (55.100-C.20.E.23)

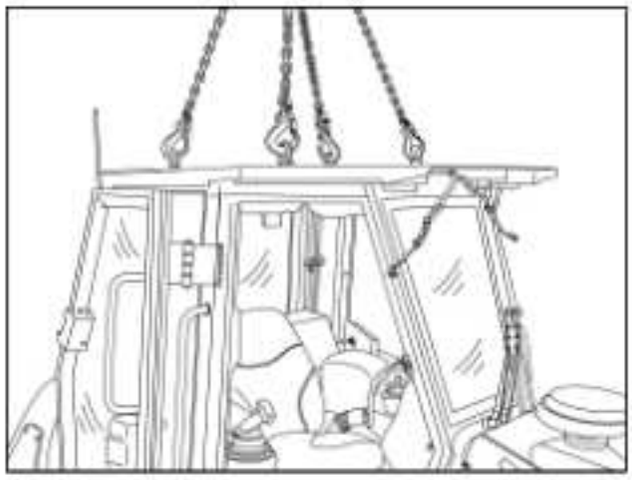
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Cab - Install

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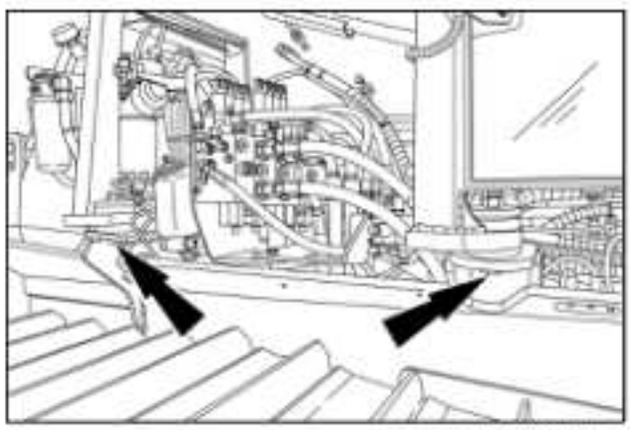
NOTICE: *The cab weighs approximately* ***884.5 kg (1950 lb)****. Use appropriate lifting device to prevent personal injury or property damage.*

1. Attach an appropriate lifting device to the cab.



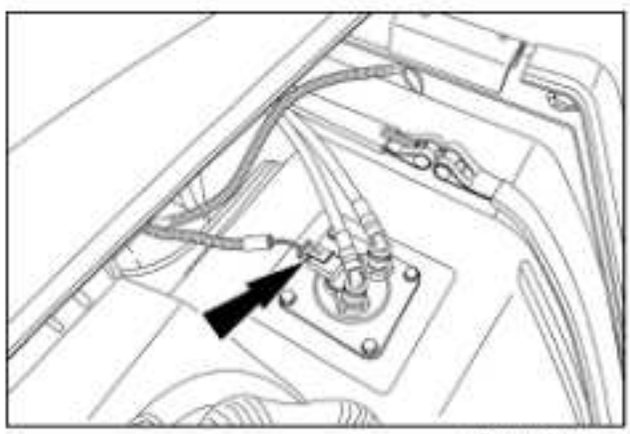
RAIL12D0207788A 1

2. Install the cab to the machine. While the cab is being installed, route the A/C lines out of the cab and into the engine area as noted during removal.
3. Install four cab mounting bolts, washers, and nuts to the cab mounts. Tighten the cab mounting bolts to specification. **550.5 - 623.7 N·m (406 - 460 lb ft)**



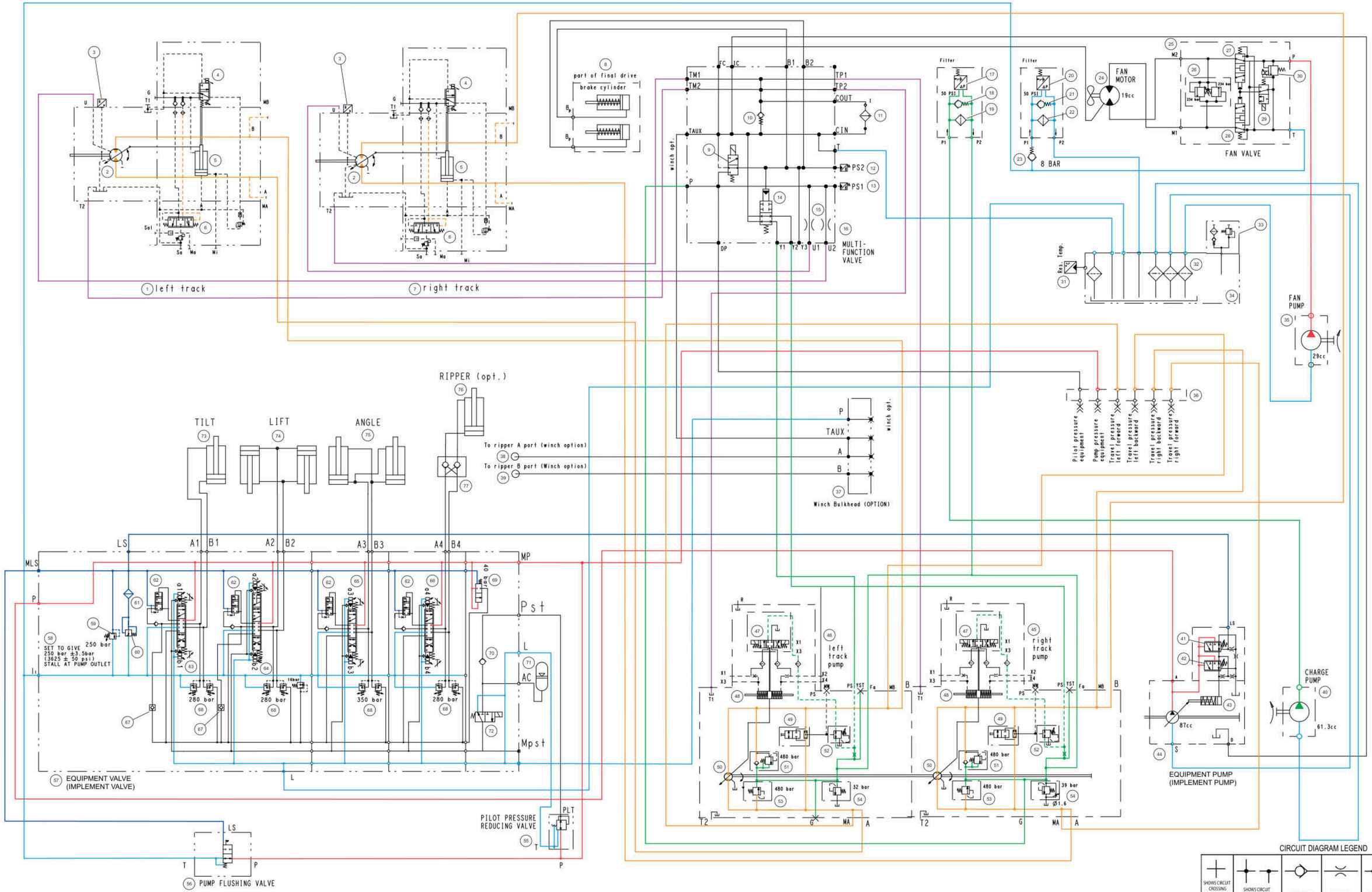
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4. Remove the lifting device from the cab.
5. Connect the fuel level sensor electrical connector to the top of the fuel tank.



RAIL14D0202714A 3

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1	Left Track Drive Motor Assembly	12	Brake Release Pressure Switch	23	Backpressure Check Valve	34	Hydraulic Reservoir	45	Right Track Pump Assembly	56	Pump Flushing Valve	67	Regeneration Check Valve
2	Track Drive Motor	13	Charge Pressure Switch	24	Fan Drive Pump	35	Fan Drive Pump	46	Left Track Pump Assembly	57	Equipment valve (Implement)	68	Circuit Relief w/ Anticavitation
3	Track Drive Motor Speed Sensor	14	Neutral Override Valve	25	Fan Reverse Valve	36	Hydraulic Test Points	47	Pump Control Solenoid Valve	58	Set to give 250 bar +/-3.5, stall at pump outlet	69	Pressure Spike Clipper
4	Motor Control Solenoid Valve	15	Motor Cooling Orifice	26	Fan Reversing Pressure Relief	37	Winch Bulkhead (option)	48	Pump Control Piston	59	Load Sense Relief Valve	70	Pilot Pressure Check Valve
5	Motor Speed Control Piston	16	Brake Release (Multi-function) Valve	27	Reverse Pilot Control Valve	38	To Ripper A Port (option)	49	Tow Valve	60	Signal Bleed Down Orifice	71	Pilot Accumulator
6	Motor Flushing Valve	17	Charge Filter Pressure Switch	28	Forward Pilot Control Valve	39	To Ripper B Port (option)	50	Track Drive Pumps	61	Screen	72	Pilot On/Off Solenoid Valve
7	Right Track Drive Motor Assembly	18	Charge Filter Bypass Valve	29	Fan Reverse Solenoid	40	Charge Pump	51	High Pressure Relief/Check Valve	62	Flow Compensator Spool	73	Tilt Cylinder
8	Park Brake Release Piston	19	Charge Filter	30	Fan Speed Control Solenoid	41	Flow Control Spool	52	High Pressure Cut-off (Inactive)	63	Tilt Spool	74	Lift Cylinders
9	Park Brake Release Solenoid	20	Hydraulic Filter Pressure Switch	31	Reservoir Temperature Sensor	42	High Pressure Cut-Off Spool	53	High Pressure Relief	64	Lift Spool	75	Angle Cylinders
10	Oil Cooler Bypass	21	Filter Bypass Valve	32	Reservoir Suction Screen	43	Destroke Pistons	54	Charge Pressure Relief	65	Angle Spool	76	Ripper Cylinder
11	Oil Cooler	22	Hydraulic Filter	33	Reservoir Pressure Cap	44	Equipment Hydraulic Pump	55	Pilot Pressure Reducing Valve	66	Ripper Spool	77	Ripper Lock Check Valve

CIRCUIT DIAGRAM LEGEND

SHOWS CIRCUIT CROSSING NOT CONNECTED | SHOWS CIRCUIT CONNECTED | CHECK VALVE | RESTRICTOR | FILTER OR SCREEN | OIL COOLER

LINE TYPES

- HYDRAULIC PRESSURE
- CHARGE PUMP PRESSURE
- RETURN TO TANK/ PUMP INLET
- TRACK DRIVE
- TRACK DRIVE CASE DRAIN
- LOAD SENSE

HYDRAULIC SCHEMATIC
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Stage IIIB\Tier 2 - ROW

Additional copies of this Schematic can be ordered through Technical Publications Distribution System. Part # RAC 47907887 (replaces RAC 47714317)

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