SERVICE MANUAL

D180C
Tier 2
Crawler Dozer

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

Part number 47907879
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NEW HOLLAND CONSTRUCTION

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Wiper switches - Testing - Front\rear, left\right

D180C | ANZ — APAC — LA — MEA

NOTE: *For wiring diagrams refer to* ***Harnesses and connectors - Electrical schematic sheet 12 (55.100)*** *and* ***Harnesses and connectors - Electrical schematic sheet 13 (55.100)*** .

Test N°1	
Test Point	**Condition** For Front \ Rear windshield wiper switch remove connector **X-053**. **Check** Turn wiper switch on, and check for continuity across terminals 2 and 3.
Expected Result	**Result** Continuity
Other Result (Possible Cause)	**Action** If no continuity, replace switch.

Test N°2	
Test Point	**Condition** For Left \ Right windshield wiper switch remove connector **X-052**. **Check** Turn wiper switch on, and check for continuity across terminals 2 and 3.
Expected Result	**Result** Continuity
Other Result (Possible Cause)	**Action** If no continuity, replace switch.

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Reconnect ECU connector X-120.

Turn the ignition switch ON.

Access the fault code screen on the EST. Fault code 3558 should no longer be active. Fault code 3557 is now present and active.

A. Fault code 3558 is no longer active. Fault code 3557 is now active. There is a problem in the wiring between the humidity sensor and the ECU. Repair or replace the harness as required. Return to Step **1** to confirm elimination of the fault.

B. Fault code 3558 is still active. Fault code 3557 did not become active. There is a problem in the ECU. Temporarily replace the ECU and retest. Return to Step **1** to confirm elimination of the fault.

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Dozer blade - Install - Bulldozer blade

D180C ANZ — APAC — LA — MEA

⚠ WARNING

Heavy objects!
Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders.
Failure to comply could result in death or serious injury.

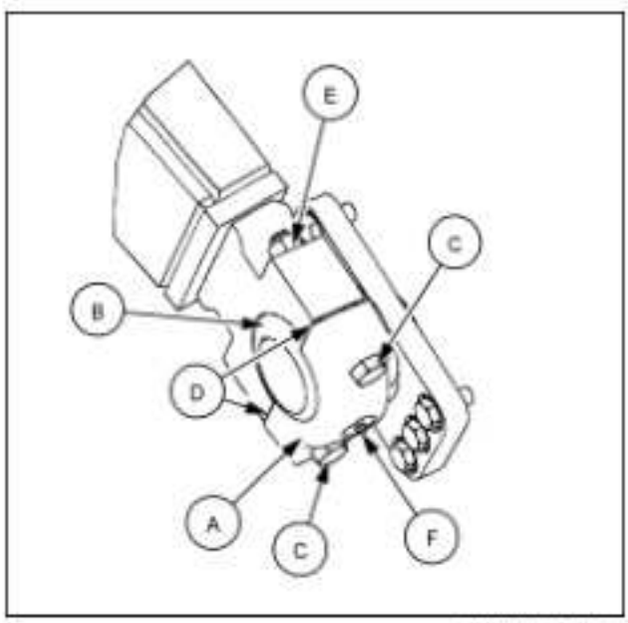
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⚠ WARNING

Crushing hazard!
Always lower the machine hydraulic lift and all other hydraulic equipment to the ground before shutting off the engine and removing key.
Failure to comply could result in death or serious injury.

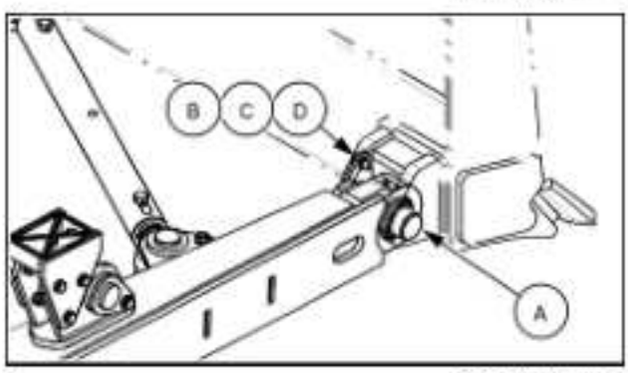
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1. Place left-hand and right-hand push beam assembly parallel to one another.
2. Set the boom height equal to the center of the ball pin using wooden blocks.
3. Position the ball pin into the clevis by maneuvering the dozer.
4. Install the rear bearing cap **(A)** with half bushing **(B)** and secure using bolts **(C)**, nuts **(E)**, and washer **(D)**.
5. Install the lube fitting **(F)** to the rear bearing cap **(A)** on the push beam.



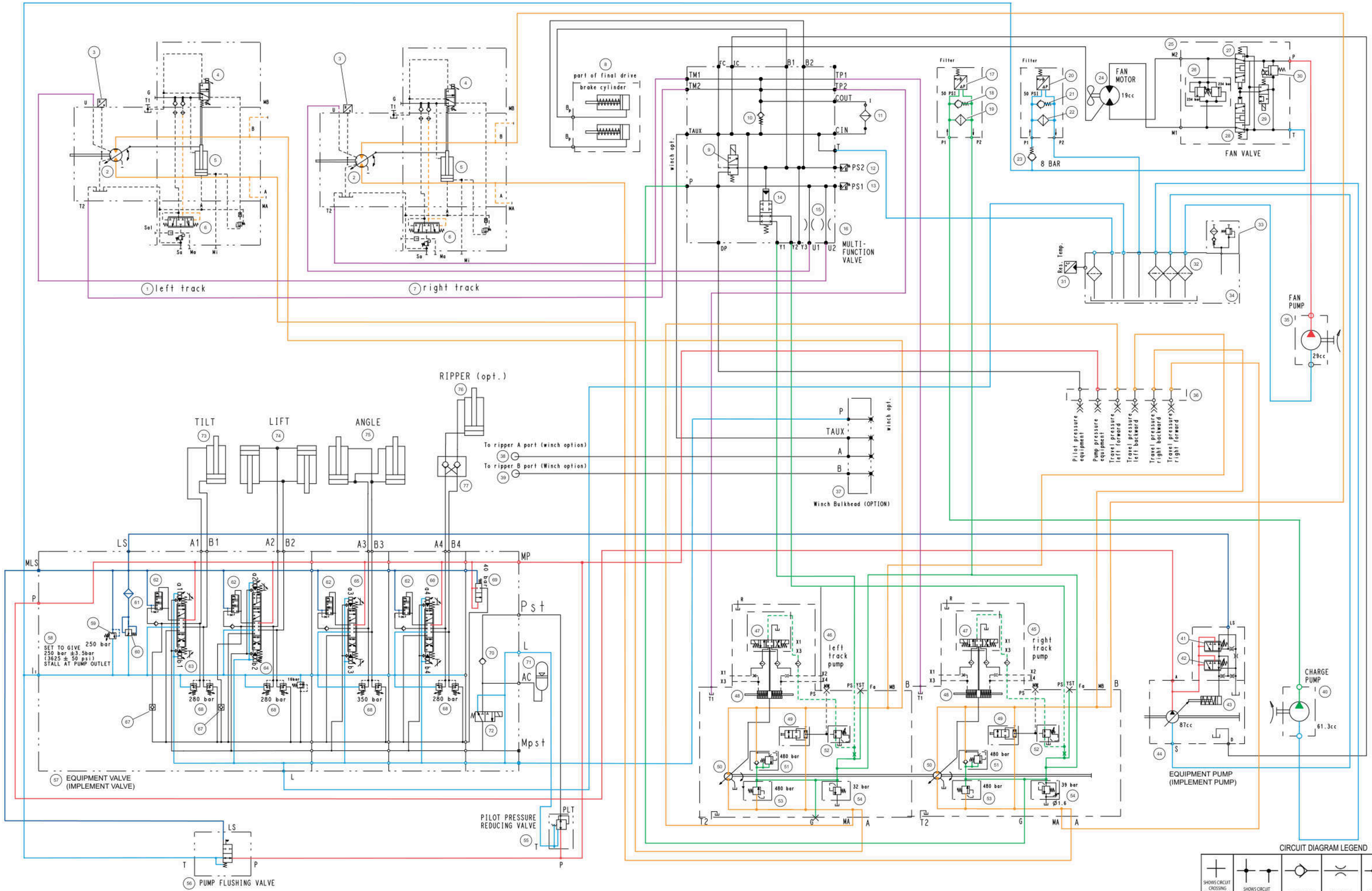
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6. Install the push beams to both sides of the blade using blade pins **(A)**, bolts **(B)**, spacers **(D)**, and washers **(C)** as shown. Apply **LOCTITE® 243™** on the bolts **(B)**.



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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
D180C DOZER
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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