# SERVICE MANUAL

## D180
## (Tier 2)
## CRAWLER DOZER

NEW HOLLAND
CONSTRUCTION

604.02.390.01

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SECTION 0

# GENERALITIES

## TABLE OF CONTENTS


| SUBJECT | PAGE |
|---|---|
| SAFETY RULES | I-VIII |
| TECHNICAL DATA TABLES | |
| Identification data | 0-3 |
| Table of fluid capacities | 0-4 |
| Main dimensions | 0-5 |
| Technical data D180 PS - D180 SC | 0-6 |
| CONTROL DATA ON THE MACHINE | 0-21 |
| TABLE OF WEIGHTS | 0-23 |
| LIST OF WEIGHTS FOR MAIN SERVICE COMPONENTS | 0-25 |
| CENTRE OF GRAVITY TABLE | 0-27 |
| GENERAL INSTRUCTIONS | 0-28 |
| TROUBLESHOOTING | 0-33 |
| UNITS OF MEASURE | 0-34 |
| TABLE OF TIGHTENING TORQUES | 0-36 |


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SECTION 1

# ENGINE

## TABLE OF CONTENTS


| CHAPTER | SUBJECT | PAGE |
|---|---|---|
| 1.1 | GENERAL SPECIFICATIONS | 1-3 |
| 1.2 | SERIES "C" ENGINE DATA | 1-5 |
| 1.3 | DIAGRAMS OF SERIES "C" ENGINE | 1-8 |
| 1.4 | MOUNTING OF ENGINE ON FRAME | 1-11 |
| 1.5 | AFTERCOOLER FAN DRIVE SYSTEM | 1-12 |
| 1.6 | THROTTLE LINKAGE | 1-14 |


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SECTION 2

# TRANSMISSION

## TABLE OF CONTENTS


| CHAPTER | SUBJECT | PAGE |
|---|---|---|
| 2.1 | GENERAL DESCRIPTION | 2-3 |
| 2.1.1 | Transmission torque converter hydraulic diagram | 2-3 |
| 2.1.2 | Transmission housing /propeller shaft/torque converter | 2-5 |
| 2.2 | TROUBLESHOOTING | 2-6 |
| 2.3 | TESTS | 2-10 |
| 2.3.1 | Torque converter stall test | 2-10 |
| 2.3.2 | Delivery pressure test procedure | 2-10 |
| 2.3.3 | Transmission gearshifting electric control valve | 2-11 |
| 2.4 | PROCEDURES FOR THE REPAIR OF THE TORQUE CONVERTER | 2-13 |
| 2.4.1 | Removal | 2-13 |
| 2.4.2 | Re-Installation | 2-14 |
| 2.4.3 | Disassembly | 2-15 |
| 2.4.4 | Reassembly | 2-24 |
| 2.5 | PROCEDURES FOR THE REPAIR OF THE TRANSMISSION | 2-25 |
| 2.5.1 | Removal | 2-25 |
| 2.5.2 | Re-Installation | 2-26 |
| 2.5.3 | Disassembly | 2-27 |
| 2.5.4 | Overhaul of the forward speed clutch | 2-41 |
| 2.5.5 | Overhaul of the 3rd speed clutch | 2-43 |
| 2.5.6 | Overhaul of the reverse speed clutch | 2-48 |
| 2.5.7 | Modulating valves (disassembly/assembly) | 2-52 |
| 2.5.8 | Pressure relief valve (disassembly/assembly) | 2-53 |
| 2.6 | SPECIFICATIONS AND DATA | 2-56 |
| 2.6.1 | General data | 2-56 |
| 2.6.2 | Tightening torques (Torque converter) | 2-57 |
| | Transmission housing | 2-58 |
| 2.6.3 | Transmission Data | 2-59 |
| | Transmission Clutch | 2-59 |
| | Transmission clutch discs | 2-61 |
| | 1st - 2nd - 3rd speed Transmission Clutch modulating valves | 2-61 |
| | Lube oil pressure relief valve | 2-62 |
| | Forward/reverse modulating valves | 2-63 |
| | Transmission pressure relief and torque converter safety valve | 2-64 |
| | Torque converter - transmission feeding pump | 2-65 |
| | Oil filters | 2-66 |
| 2.7 | SPECIAL TOOLS | 2-67 |


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## TECHNICAL DATA D180 (Tier 2)

| | | | |
|---|---|---|---|
| OPERATOR'S COMPARTMENT | Dom light (2)<br>FM-AM Radio (12 Volt)<br>Can holders<br>12 V jack for lunch box refrigerator | | |
| | No. of air ducts | - | 10 |
| | **Seat** | | |
| | Make | | Kab |
| | Model | | 301 |
| | Adjustment range | mm (in) | 150 (5.9) |
| | Height adjustment | mm (in) | 60 (2.4) |
| | Other features | | |
| | Fabric coath, with safety belt and tie links | | |
| | **Heater group** | | |
| | Heating capacity (air inlet temp. -10 °C; air flow 600 m³/h; | | |
| | water inlet temp. 85 °C; water flow 800 L/h) | kW (HP) | 10.4 (13.9) |
| | Filter: | | |
| | Media, inorganic glass fibre paper | | |
| | Efficiency | % | > 65 |
| | Capacity | micron | 0.3 |
| | Size | cm² (in²) | 19600 (3038) |
| | Recirculation percentage: | | |
| | No. of fans (type: SPAL 006-839-22 3 speed - total free flow 1160 m³/h) | | 2 |
| | No. of fan speeds | | 3 |
| | Max. cab air flow (free total air flow 1160 m³/h) | m³/h (ft³/h) | 500 (17657) |
| | Max. pressurization | bar (psi) | 0.0019 (0.028) |
| | **Air conditioner group** | | |
| | Max. gas charge | g (lb) | 1600 (3.5) |
| | Cooling capacity (air inlet temp. +30 °C; air flow 600 m³/h; | | |
| | air relative humidity 55%) | kW (HP) | 6 (8) |
| | Re-circulation percentage | % | na |
| | **Compressor** | | |
| | Make | | Sanden |
| | Model | | SD7H1SMD7948 |
| | Displacement (max. allowed speed 7000 rpm) | cc/rev | 160 |
| | Thermostat valve setting | | +1 °C (33.8 °F) open: diff. temp. setting 3.5 °C (38.3 °F) |
| | **Pressure switch** (2 level type): | | |
| | LOW LEVEL:<br>HIGH LEVEL: | | open 2 bar, closed 2.1 bar<br>open 25 bar, closed 19 bar |
| | Expansion valve | | 2 TON - 6000 kcal/h |

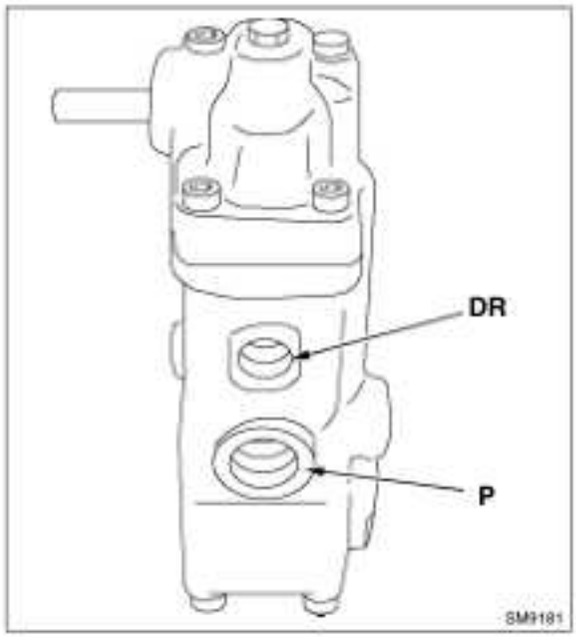


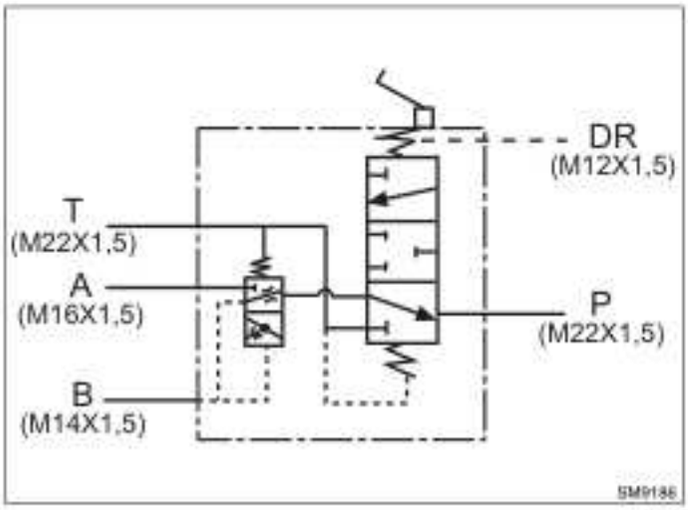
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**Brake pedal valve**
(Ref. **3**, hydraulic diagram)

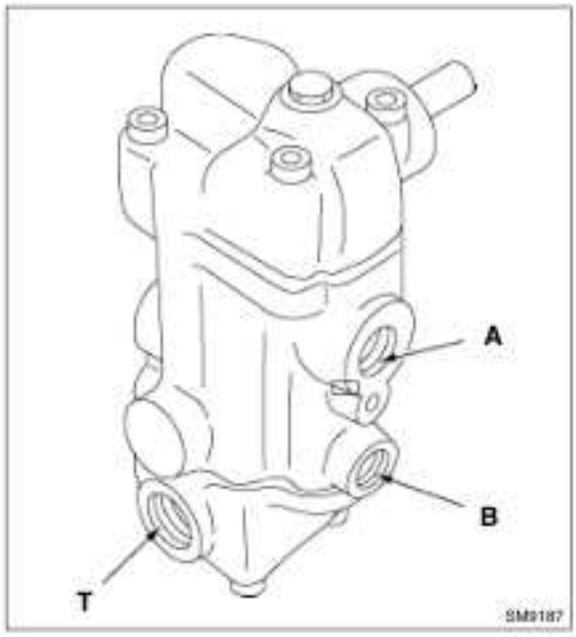
The brake pedal valve is mounted in the lower part of the cab and it is actuated by a linkage, directly by the brake pedal.

**P.** To brakes (delivery)
**DR.** To brakes (draining)
**T.** To housing (discharge)
**A.** To feeding valve
**B.** From feeding valve (pos. 2) and to proportional solenoid valve (pos. P)



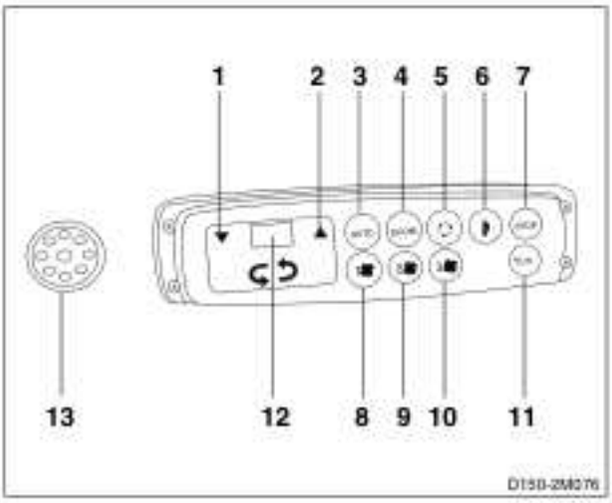

**Valve hydraulic diagram**






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## 8.1.3 CAB CLIMATE CONDITIONER AND ERROR CODES




**1.** Decrement of internal temperature - **2.** Increment of internal temperature - **3.** Automatic function - **4.** Compressor cut-off - **5.** Re-circulation - **6.** Outer temperature - **7.** Cut-off - **8.** Fan 1st speed - **9.** Fan 2nd speed - **10.** Fan 3rd speed - **11.** °C/°F conversion - **12.** Display reading of temperature setting - **13.** Cab inside temperature sensor.

### ERROR CODES TABLE

| ERROR | ERROR DESCRIPTION |
|---|---|
| E1 | OUTSIDE TEMPERATURE FEELER (TE) OPEN |
| E2 | OUTSIDE TEMPERATURE FEELER (TE) IN SHORT CIRCUIT |
| E3 | INSIDE TEMPERATURE FEELER (TI) OPEN |
| E4 | INSIDE TEMPERATURE FEELER (TI) IN SHORT CIRCUIT |
| E5 | MIXED AIR TEMPERATURE FEELER (TIM) OPEN |
| E6 | MIXED AIR TEMPERATURE FEELER (TM) IN SHORT CIRCUIT |



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