SERVICE MANUAL

TD5.100, TD5.110, TD5.65, TD5.75, TD5.80, TD5.90

48012878 21/12/2016

NEW HOLLAND AGRICULTURE

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Main specification of implement hitching device

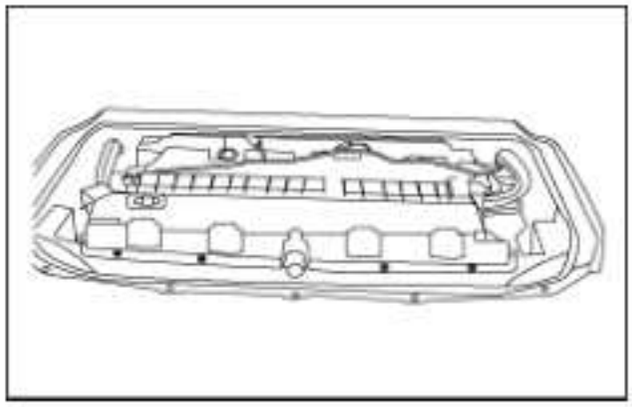
Type	Three-point linkage
Category: All models	 2
Draft control	By means of lower arms with flex bar
Maximum liftable load with centre of gravity **610 mm** (**24.0157 in**) from the lower arm link ends: with arms horizontal (with top link connected to hole on upper support): TD5.65, TD5.80 models TD5.75, TD5.90, TD5.100 and TD5.110 models	 **2260 kg (4982.45 lb)** **2700 kg (5952.48 lb)**
Maximum liftable load: with arms horizontal (with top link connected to upper support pin): TD5.65, TD5.80 models TD5.75, TD5.90, TD5.100 and TD5.110 models	 **3000 kg (6613.87 lb)** **3565 kg (7859.48 lb)**
Flex bar diameter: TD5.65, TD5.75, TD5.80, TD5.90, TD5.100 and TD5.110 models	 **24.867 – 24.900 mm (0.9790 – 0.9803 in)**
Axial clearance of flex bar	**1.2 – 4.1 mm (0.0472 – 0.1614 in)**

Main specification of hydraulic pump (all models)

Filter	
Type	Paper cartridge
Location	Fixed to the pump housing on suction side
Pump	
Type	Gear type with oil suction from transmission casing
Location	Flanged on the rear left-hand side of the engine
Construction	BOSCH
Model	A31
Operation	By means of the engine gears
Direction of rotation (as seen from drive side)	Left (counter clockwise)
Engine speed to pump speed ratio	1 : 0.931
Maximum speed of pump rotation (with engine at maximum power equivalent to **2500 RPM**)	**2328 RPM**
Bench output at **1450 RPM** and pressure of **172 bar** (**2494 psi**): For new or reconditioned pump For worn pump Test oil temperature Test oil viscosity	 (**19000 cm³** (**1159.5 in³**))/min. (**13299 cm³** (**811.6 in³**))/min. **55 – 65 °C (131 – 149 °F)** **SAE 20**
Driven and driving gear shaft diameter	**17.400 – 17.418 mm (0.6850 – 0.6857 in)**
Internal diameter of seats in supports	**17.450 – 17.470 mm (0.687 – 0.6878 in)**
Clearance between gear shafts and their seats	**0.032 – 0.070 mm (0.0013 – 0.0028 in)**
Maximum clearance due to wear	**0.1 mm (0.0039 in)**
Radial clearance of gears in pump body	**0.020 – 0.064 mm (0.0008 – 0.0025 in)**
Maximum wear on pump body, suction side, at position of gears	**0.1 mm (0.0039 in)**
Width of gears **(5)** (Fig. 104)	**24.000 – 24.015 mm (0.9449 – 0.9455 in)**
Width of supports **(4)** and **(6)**	**24.490 – 24.510 mm (0.9642 – 0.965 in)**
Width of pump body **(3)** for gear seats and supports	**73.135 – 73.160 mm (2.8793 – 2.8803 in)**
Axial clearance of gears complete with supports in pump body (recondition if necessary)	**0.100 – 0.180 mm (0.0039 – 0.0071 in)**

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10. A/C assembly is shown in Fig. **8**.

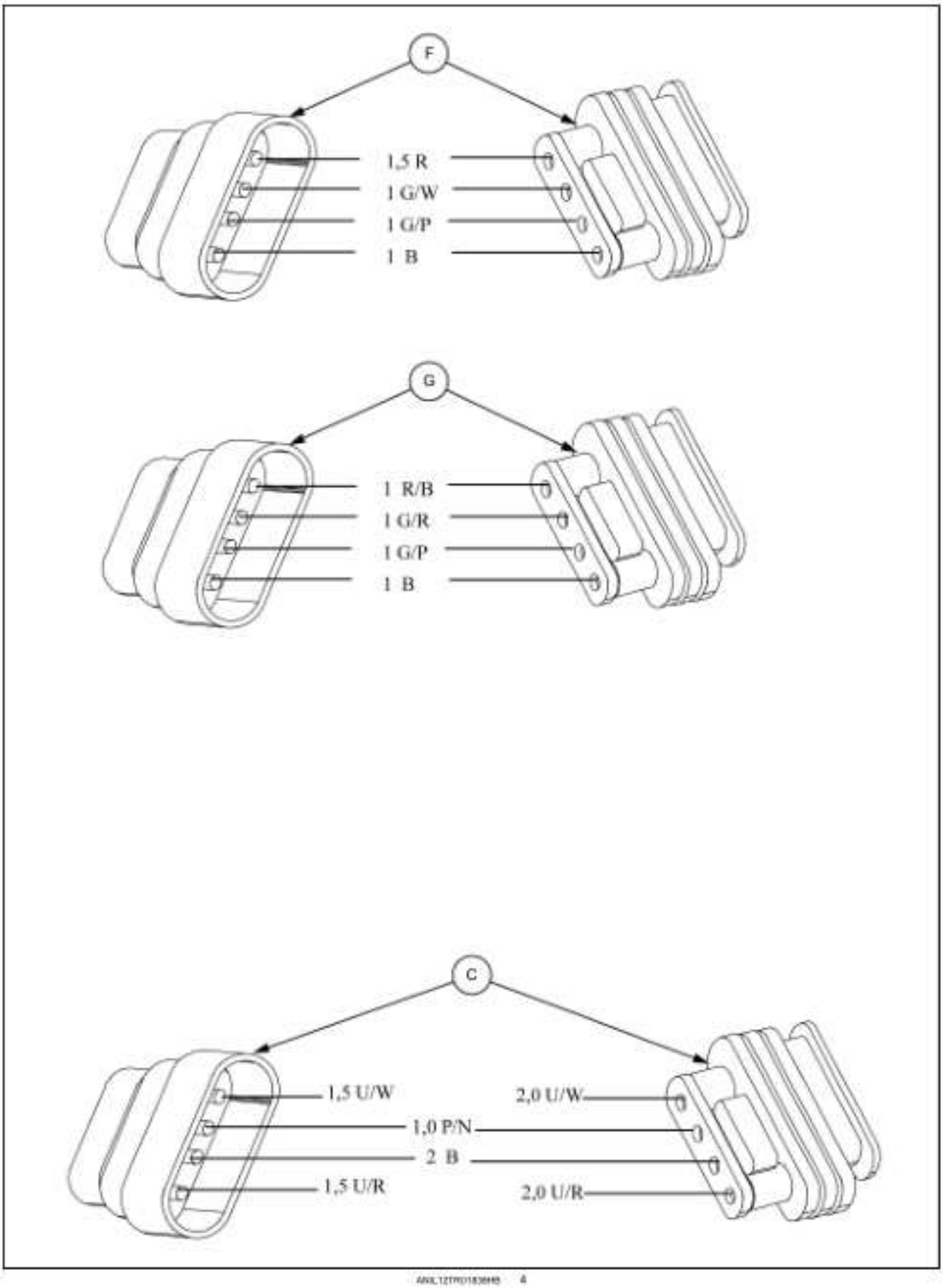


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To reassemble, clean all parts and proceed as follows:

1. Refit A/C assembly completely and refit all electric connectors.
2. Assembly the bracket that secures the heater pipe.
3. Assembly the heater pipe connections refit the pipes.
4. Refit A/C assembly inlet & outlet pipes.
5. Refit A/C assembly fastening screws.
6. Refit top cover plate.
7. Assembly the cab roof.
8. Pour the previously drained coolant back into the radiator.
9. Reconnect the negative battery lead.
10. Charge the air conditioning system with **HFC R134A** refrigerant, using the evacuation/charging station 294030 as described on **Air conditioning - Check (50.200)**.

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