SERVICE MANUAL

CR9040 / CR9060 / CR9065 / CR9070 / CR9080

Combine

from PIN HAJ110001 and Above

Part number 84235773
English
November 2010
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NEW HOLLAND AGRICULTURE

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Air compressor - General specification

CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

Models Using	CR9065, CR9070, CR9080. Also CR9040 & CR9060 after PIN HAJ111000
Supplier	WABCO 412 352 008 0
Type	Single cylinder flange-mounted compressor (gear-to-gear)
Drive Gear	36 helical teeth
Operating Pressure (MAX)	**14 bar (203 psi)**
Bore	**85 mm (3.35 in)**
Stroke	**62 mm (2.44 in)**
Swept Volume	**0.35 l (21.5 in³)**
Air Output Rating	31.8 cu meters/hr (18.7 cfm)
Type of Operation	NDR - Normal pressure with unloader valve
Lubrication	UD - Circulation system lubrication with connection to engine oil pressure.
Operating Speed	**3000 RPM** (Maximum)
Cooling Type	Water (Engine coolant sharing)
Cooling Flow Rate	**6 l/min (1.6 US gpm)**

Air compressor - General specification

CR9040 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ110001 - HAJ111000] NA

Models Using	CR9040 & CR9060 before PIN HAJ111000
Supplier	WABCO 911-153-010-0
Type	Single cylinder flange-mounted compressor (gear-to-gear)
Drive Gear	42 helical teeth
Operating Pressure (MAX)	**14 bar (203 psi)**
Bore	**85 mm (3.35 in)**
Stroke	**62 mm (2.44 in)**
Swept Volume	**0.35 l (21.5 in³)**
Air Output Rating	31.8 cu meters/hr (18.7 cfm)
Type of Operation	NDR - Normal pressure with unloader valve
Lubrication	UD - Circulation system lubrication with connection to engine oil pressure.
Operating Speed	3000 rpm (Maximum)
Cooling Type	Water
Cooling Flow Rate	**6 l/min (1.6 US gpm)**

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Wiring harness - Electrical schematic frame 26 (A.30.A.88 - C.20.E.26)

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N°	Test Point	Expected Result	Other Result (Possible Cause)
8	**Condition** Ignition switch in "OFF" position. A/C system OFF. A/C Clutch Relay installed. **Check** Measure resistance between A/C Clutch Relay, pin 5 and ground.	**Result** Less than **1 ohm**. If good reading, **Action** Replace A/C Clutch Relay.	**Action** Open in ground circuit between A/C Clutch Relay and Ground. Go to test **9**
9	**Check** Measure resistance between in-line connector X005 (pin 9) and ground.	**Result** Less than **1 ohm**. If good reading, **Action** Open in ground circuit CM-178-WH between in-line connector X005 (pin 9) and A/C Clutch Relay. Repair or replace circuit.	**Action** Open in ground circuit between in-line connector X005 (pin 9) and Ground. Go to test **10**
10	**Check** Measure resistance between in-line connector X010 (pin 11) and ground.	**Result** Less than **1 ohm**. If good reading, **Action** Open in ground circuit MF-178-WH between in-line connector X005 (pin 9) and in-line connector X010 (pin 11). Repair or replace circuit.	**Action** Open in ground circuit between in-line connector X010 (pin 11) and Ground. Go to test **11**
11	**Check** Measure resistance between A/C Clutch connector X215 (pin A) and ground.	**Result** Less than **1 ohm**. If good reading, **Action** Open in ground circuit EN-178-WH between in-line connector X010 (pin 11) and A/C Clutch connector X215 (pin B). Repair or replace circuit.	**Action** Open in ground circuit between A/C Clutch connector X215 (pin A) and Ground. Go to test **12**
12	**Check** Measure resistance between A/C Clutch connector X215 (pin B) and ground.	**Result** Less than **1 ohm**. If good reading, **Action** Open in A/C Clutch coil. Repair or replace A/C Clutch.	**Action** Open in ground circuit between A/C Clutch connector X215 (pin B) and Ground. Repair or replace circuit

Electrical control Blower speed potentiometer - Testing

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

NOTE: *The batteries must be fully charged and all connections clean and tight. Use a multimeter (DVOM) for these tests.*

NOTICE: *DO NOT use a self-powered test light for any of these tests. Use of a self-powered light can cause damage to components in this system.*

⚠ WARNING ⚠

Before performing any of the electrical tests, be sure all operating controls are in neutral or park lock position. This will eliminate accidental movement of the machine or start-up of power driven equipment. Failure to comply could result in death or serious injury.

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N°	Test Point	Expected Result	Other Result (Possible Cause)
1	**Condition** Keyswitch ON and ATC switch in AUTO. Defrost OFF. **Check** Turn Blower Speed Control Pot while observing Auto Operation Display.	**Result** Fault Code #3 displays only in certain locations. **Action** Probable faulty Blower Speed Control Pot. Go to test **3**	**Action** Go to test **2**

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AXLES, BRAKES AND STEERING



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TRANSMISSION, DRIVE AND PTO OUT



CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9080 [YAG113901 -] NA

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