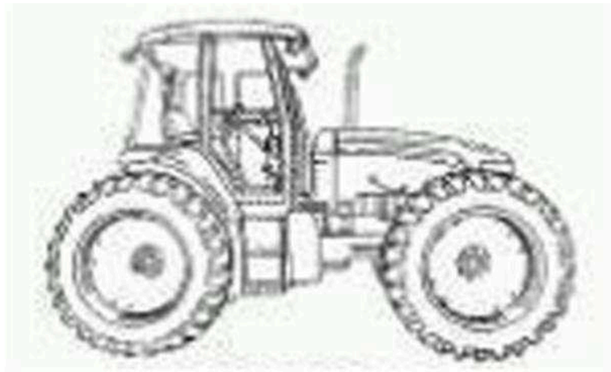


NEW HOLLAND
TV140
Tractor

REPAIR MANUAL

NEW HOLLAND AGRICULTURE

SERVICE

86615156

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SECTION 00 - GENERAL INFORMATION

BOOK 1 - 86705316

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SECTION 10 - ENGINE

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Chapter 1 - Engine Systems

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Nozzle Opening Pressure Setting

1. Slowly pump the injector tester and observe the pressure at which the needle valve lifts and fuel is ejected from the nozzle tip.
2. The minimum acceptable opening pressure is 240 bar (3480 psi).
3. If the opening pressure is below 240 bar (3480 psi), adjust the nozzle to an opening pressure of 270 - 278 bar (3915 - 4031 psi).

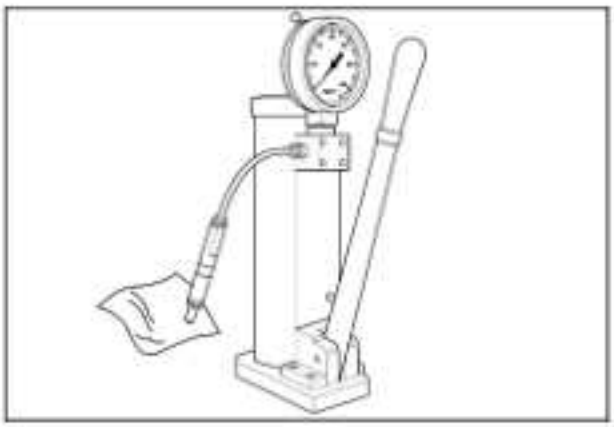
Spray Pattern

1. Pump the tester rapidly (80 - 90 strokes per minute) and observe the spray pattern from the injector holes.
2. The spray should be atomized and free from distortion and irregular streaks of fuel.

NOTE: *The tester is not regarded as providing a suitable test for atomization under working conditions, but gives an indication of the operation of the nozzle.*

Nozzle Seat Leakage

1. Wipe the nozzle tip dry with blotting paper as shown.
2. Apply a pressure 10 bar (145 psi) below the opening pressure.
3. The nozzle tip and bottom face must remain essentially dry and there must be no tendency for blobs of fuel to collect or drip. A slight dampness can be ignored.
4. If there is any leakage from the nozzle seat, clean or replace the nozzle assembly.

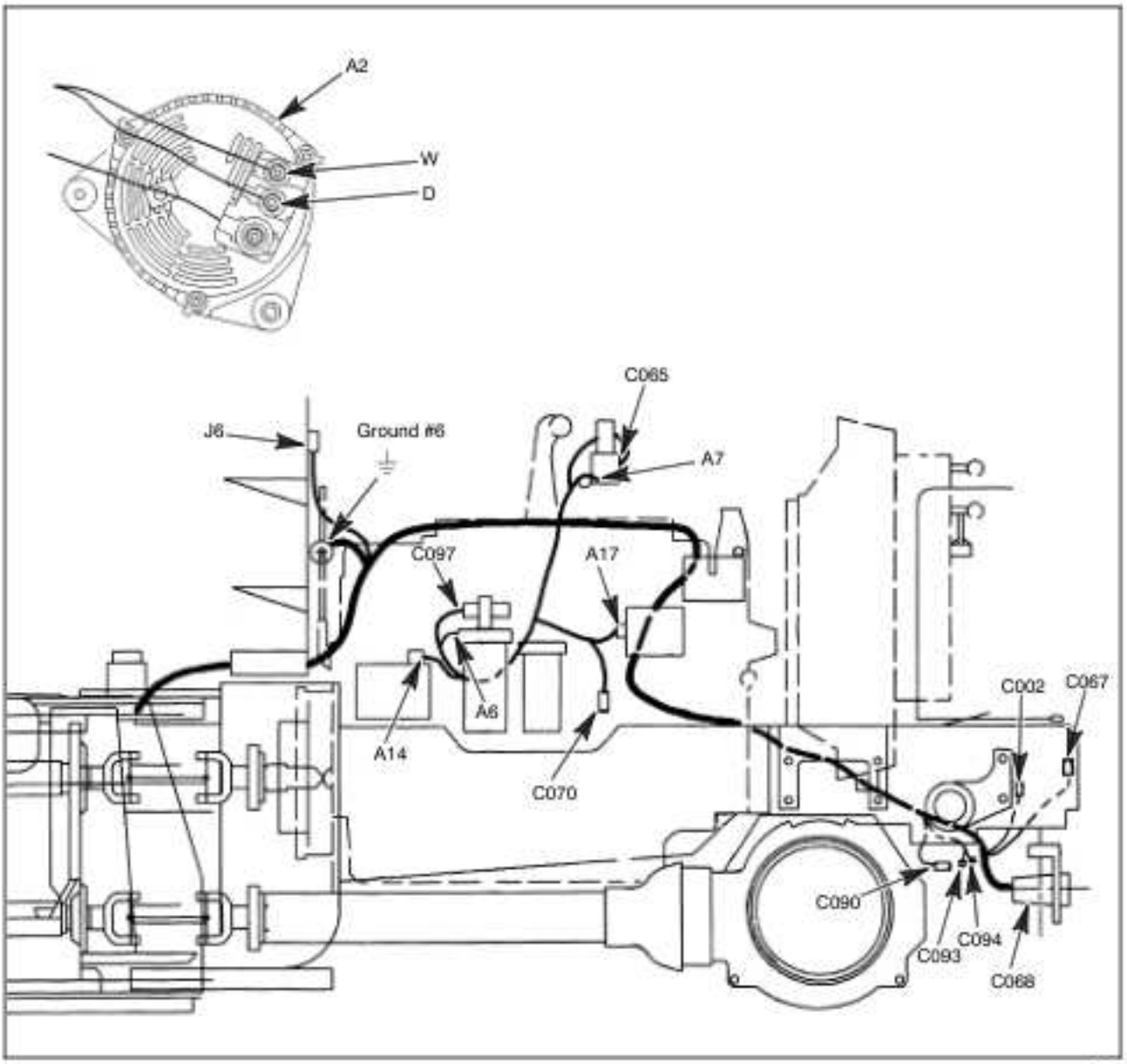


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Nozzle Back Leakage

1. Apply a pressure 10 bar (145 psi) below the opening pressure then release the handle and time the pressure drop.
2. The pressure should drop 100 - 150 bar (1450 - 2180 psi) in 5 - 45 seconds.
3. If less than 5 seconds, replace the nozzle assembly.
4. If more than 45 seconds, check for carbon on the valve and/or blocked leak-back drillings.

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CH Harness-to-Harness Connectors - RH Side of Engine

Connection	Location	Pins	1st Pin
To HL (Headlights) Harness, J6 Male	Engine Compartment Hood Support	6 (M)	#A, CH-017 (or #B, CH-018)

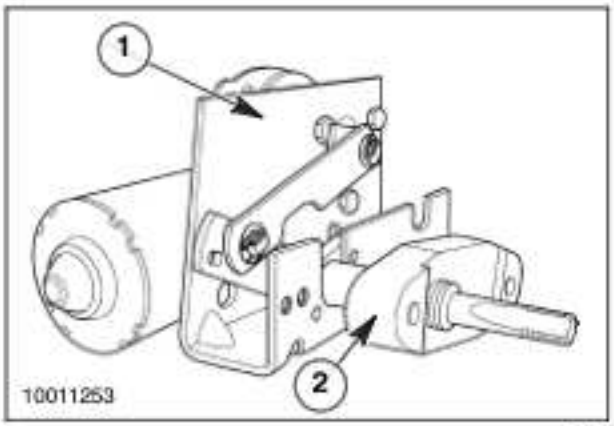
CH Grounds - RH Side of Engine

Connection	Location	Wires
Engine Support High Ground (some tractors ground at hood support)	Engine Compartment Support	CH-398 (strap)

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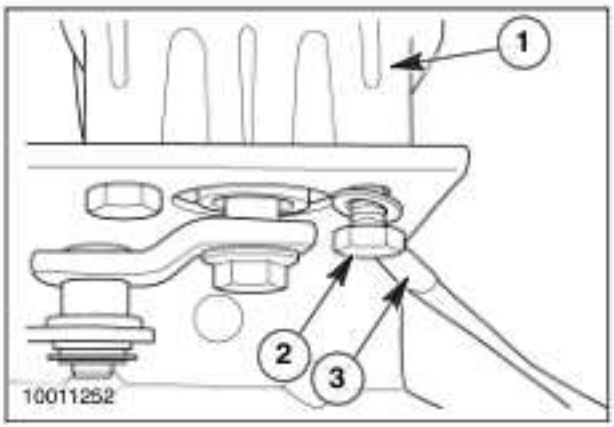
Installation

1. Install the windshield wiper motor assembly, 1, and spacer, 2, in the tractor.



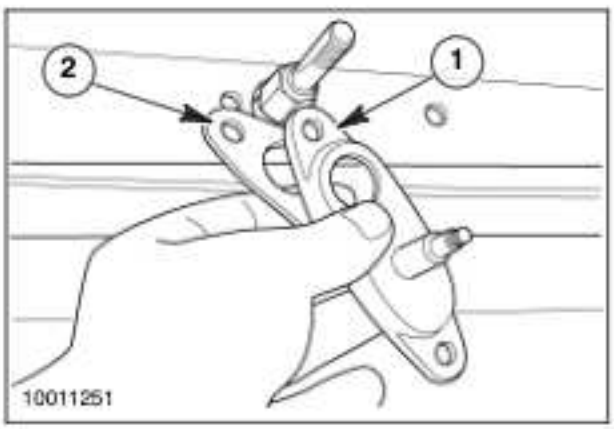
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2. Remove one 1/4-20 screw, 2, from the windshield wiper motor assembly, 1, and install the electrical harness ground, 3.
3. Connect the cab harness electrical connector to the back of the windshield wiper motor.



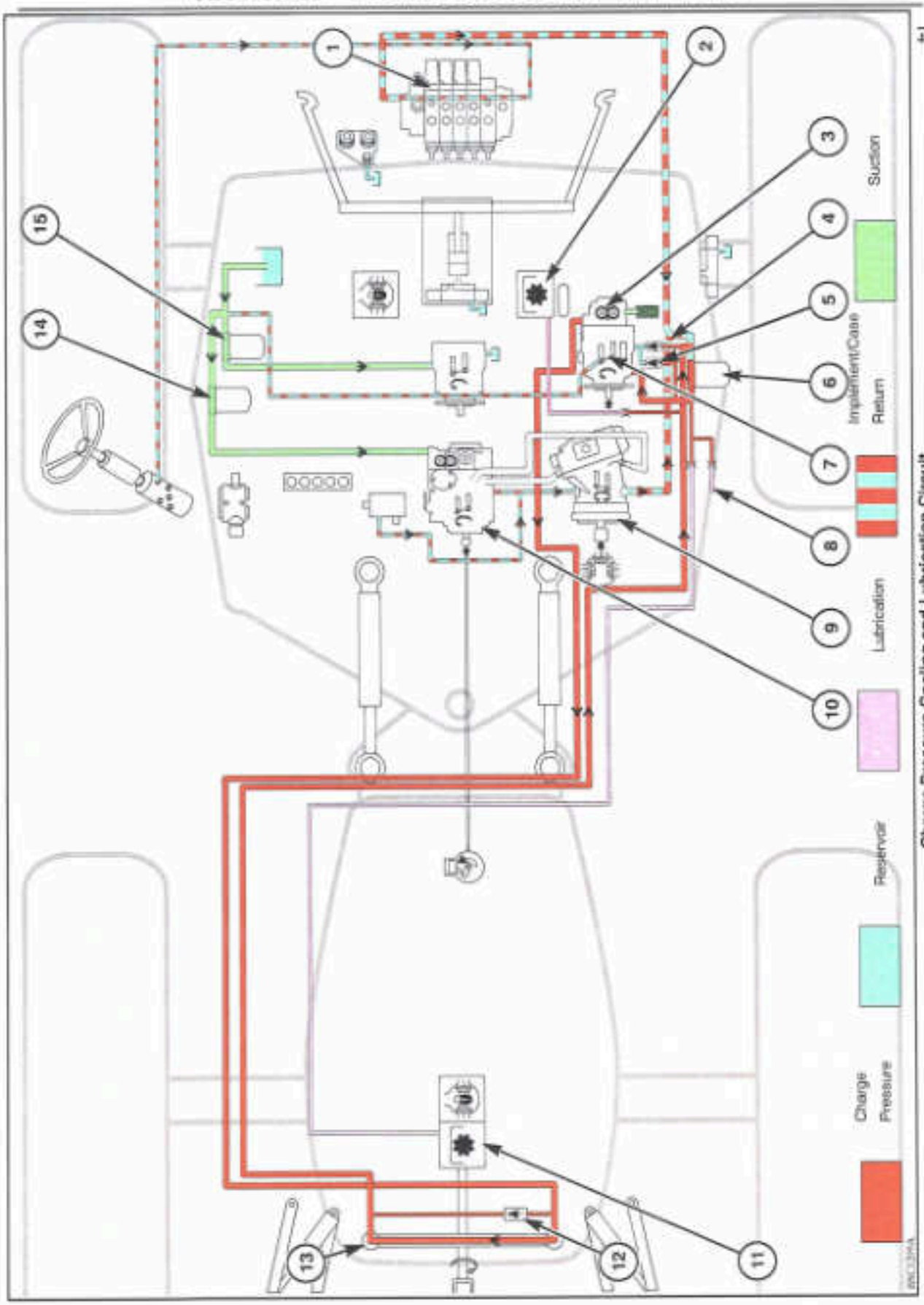
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4. Install the adapter, 1, and gasket, 2, from the tractor.



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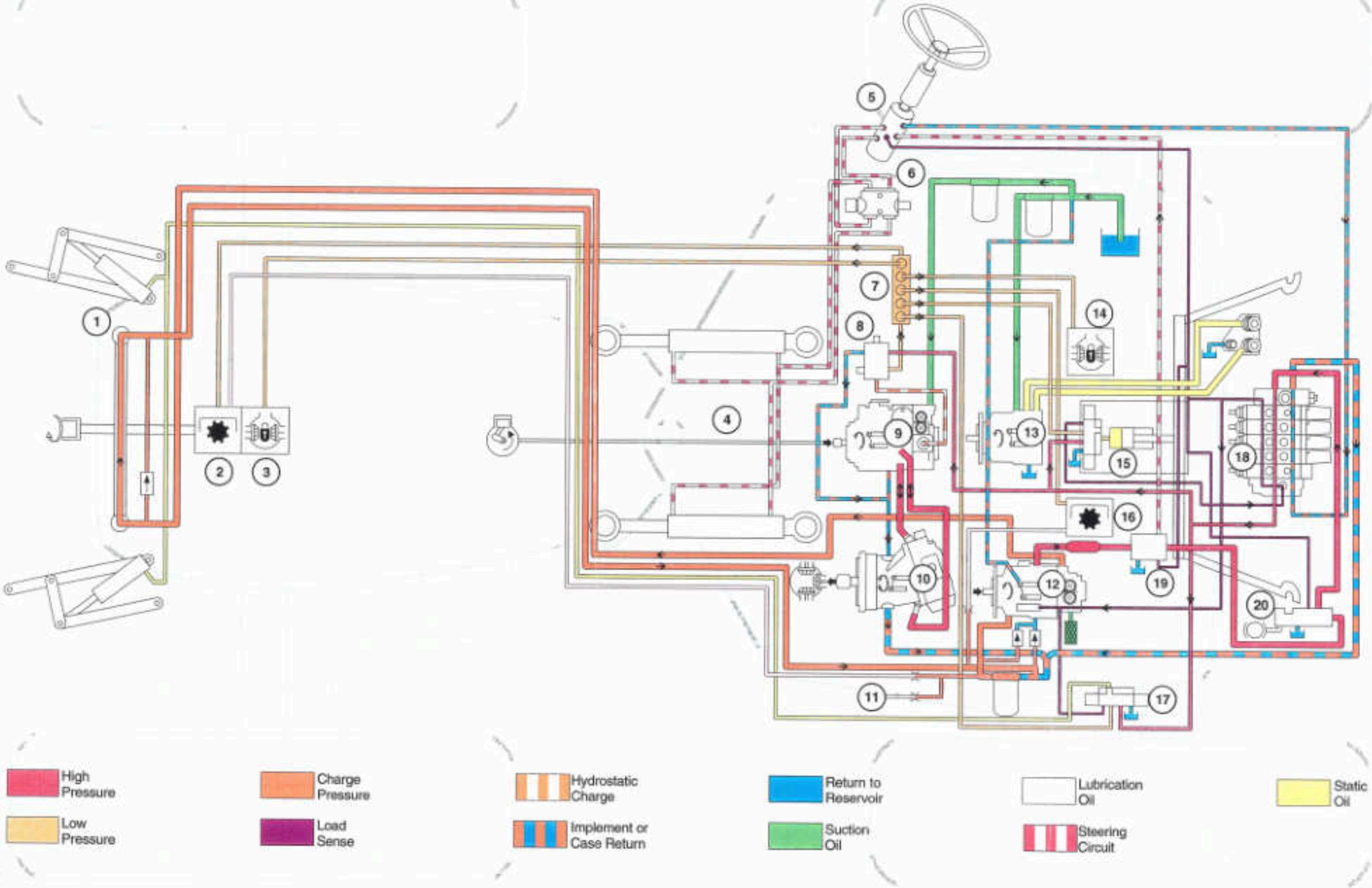
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Charge Pressure Cooling and Lubrication Circuit

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