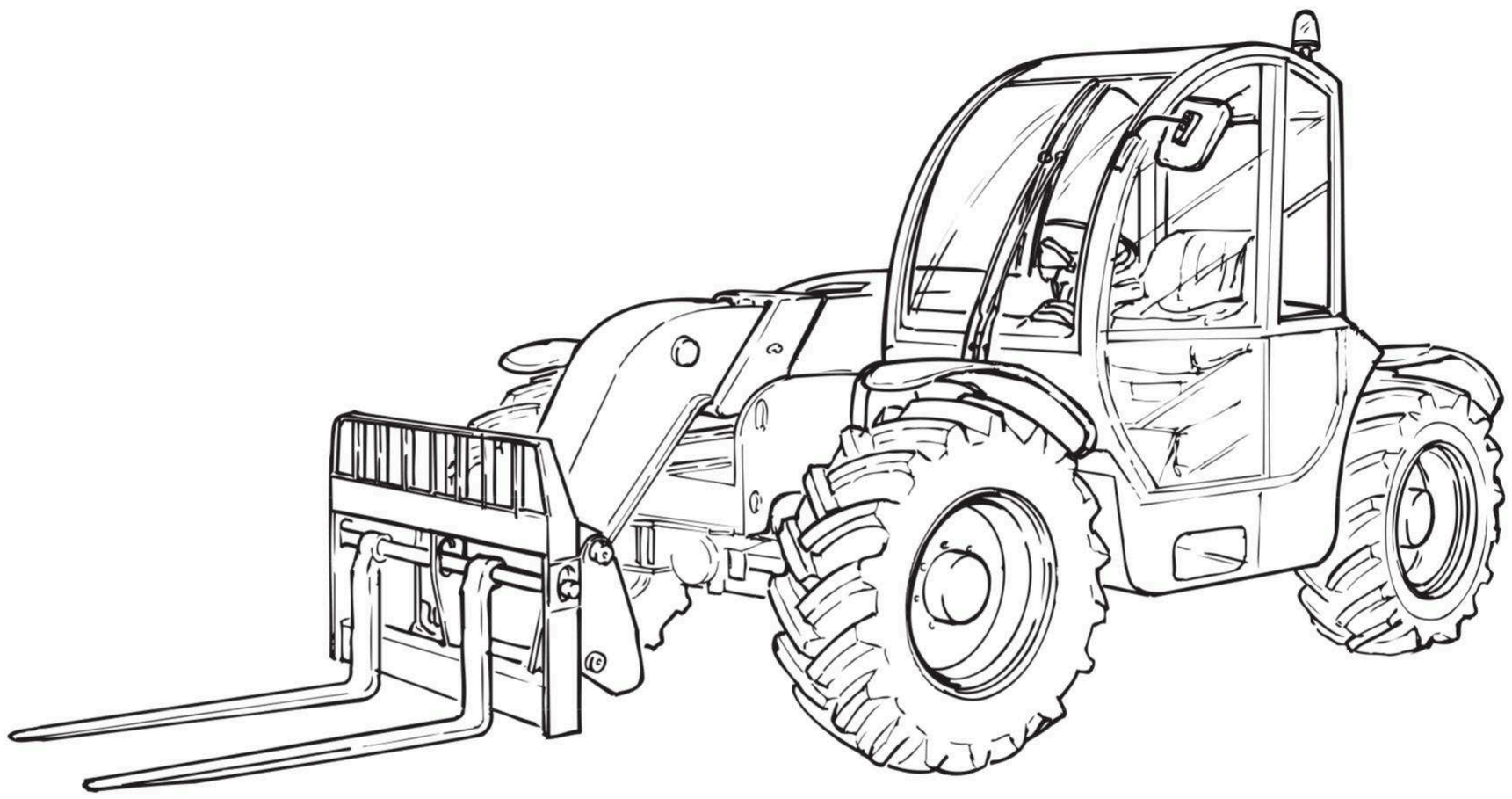
TEREX LIFT

WORKSHOP MANUAL

Code 57.4400.9200 - 1st Edition 11/2005

Agricultural machinery

AGRILIFT 737 - 1037



English

Edition

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Section 1
SAFETY INFORMATION

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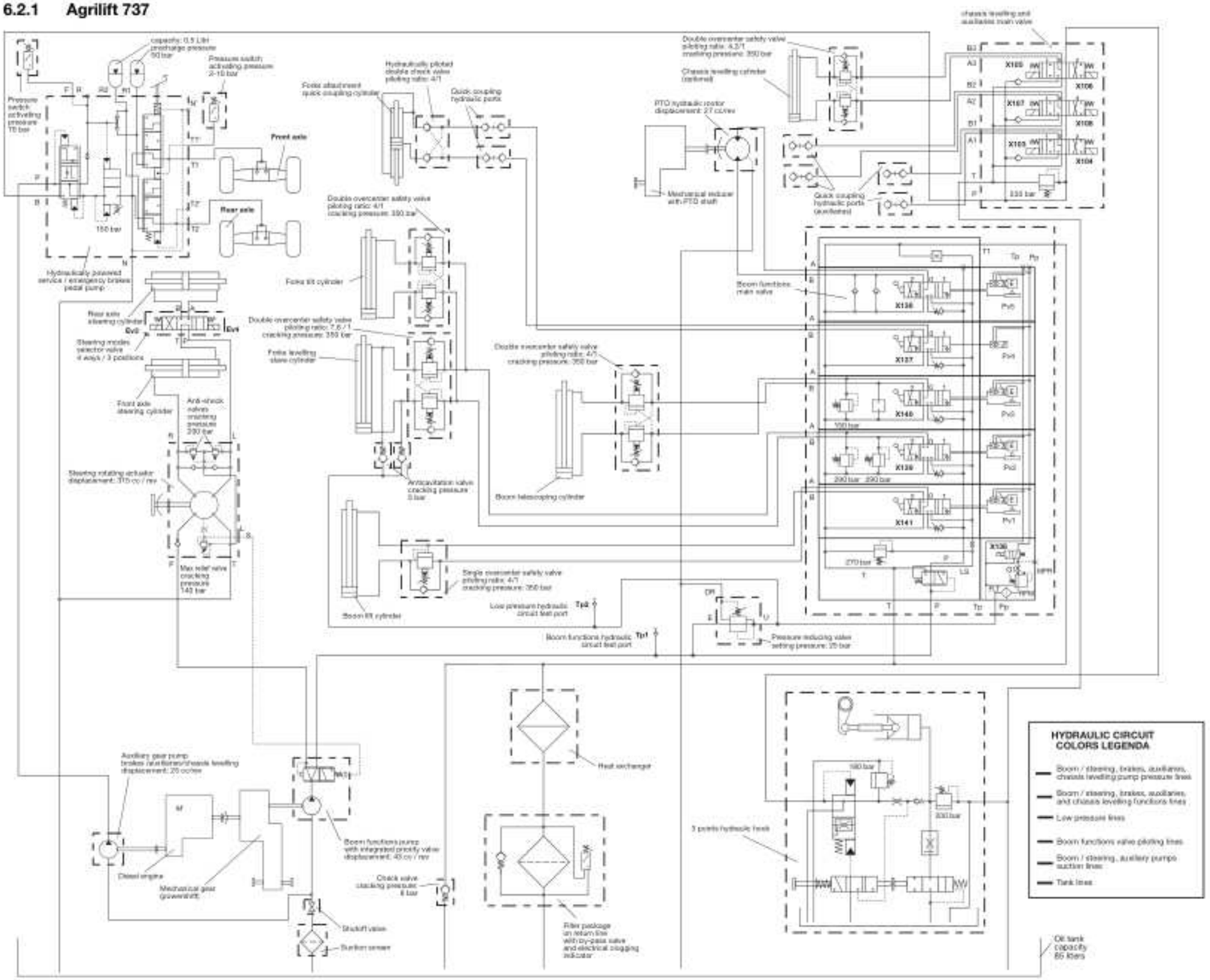
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The three pressure reducing valves are installed in the hydraulic drive **(pos. 7)** and cannot be regulated from the outside.
The steering circuit is completed by the front steering cylinder **(pos. 9)**, the rear steering cylinder **(pos. 10)** [these cylinders being integral part of the front axle **(pos. 30)** and the rear axle **(pos. 29)** respectively] and by a 4-way/3-position solenoid valve **(pos. 8)** for the selection of the three different steer modes (rear wheels straight, co-ordinate front/rear steering and independent front/rear steering). When the solenoid valve **(pos. 8)** is not energised, the front steering cylinder is fed by the hydraulic drive and the rear cylinder is blocked. When one magnet or the other of the solenoid valve **(pos. 8)** is energised, the chambers of the cylinders are connected in a different manner thus causing the desired steering effect.
The Bucher/Tecnord electro-proportional modular distributor **(pos. 11)**, with 5 sections, receives oil from the secondary line of the pump **(pos. 3)** and feeds all of the movements of the telescopic boom, as well as the rear (optional) power takeoff. This distributor consists of an input head with a 3-way pressure compensator used as a flow regulator for the user which works at max load (load sensing), and as a discharge valve when the pump flow is not used for the boom movements, and of 5 modules, each of them controlling a specific movement of the telescopic boom (4 in total, that is lifting/lowering, attachment holding plate rotation, boom extension/retraction, attachment locking/unlocking) and the rear (optional) power takeoff.
In the head there is a pressure relief valve set at 270 bar which, acting on the line of the "load sensing" signal, limits the maximum pressure at the inlet of the distributor through such 3-way compensator. On the main inlet head of the distributor, there is the pilot line head which includes an inlet safety filter, a pressure relief valve acting on the pilots line, and a safety solenoid valve which, when de-excited, discharges the input pilot pressure, thus preventing the distributor from working. This solenoid valve is used as a "dead man" control and is activated by the relevant button on the joystick in the driving cab. The pilot head delivers oil at pressure to the 5 pilot modules of the distributor which are used to operate the relevant main sliders in relation to the command signal they receive from the joystick via the control unit.
Module 1 of the distributor controls the telescopic boom lifting cylinder **(pos. 13)**. This cylinder has one single-acting compensation valve with safety function. The pilot module of this element of the distributor is the electro-proportional type with electrical feed-back and integrated electronics. The 0.35-lt. accumulator prefilled at 50 bar **(pos. 14)** and located on the line of the differential chamber of the lifting cylinder **(pos. 13)**, allows damping the boom swings when the same boom

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6.2 HYDRAULIC SCHEME

6.2.1 Agrilift 737



CAUTION

Initials "X..." shown next to the solenoid valves are exactly the same present on the machine.

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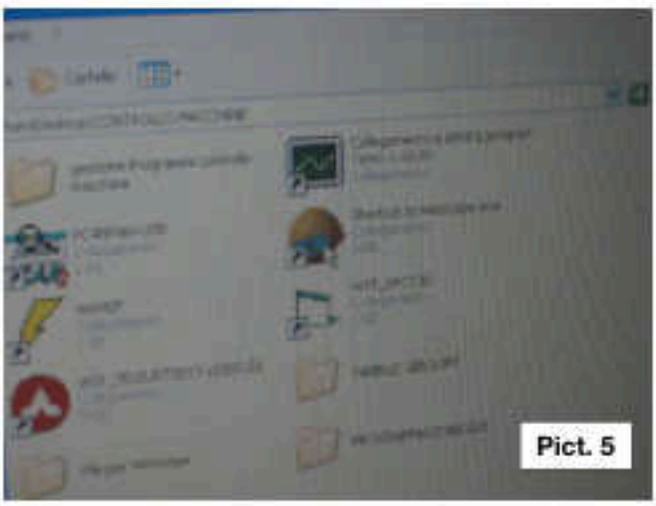
PC CONNECTION (WINSCOPE)


Pict. 1


Pict. 2


Pict. 3


Pict. 4


Pict. 5



Pict. 6

If you want to check or save the system parameters and variables, you have to open the relevant windows and check the values contained in these.

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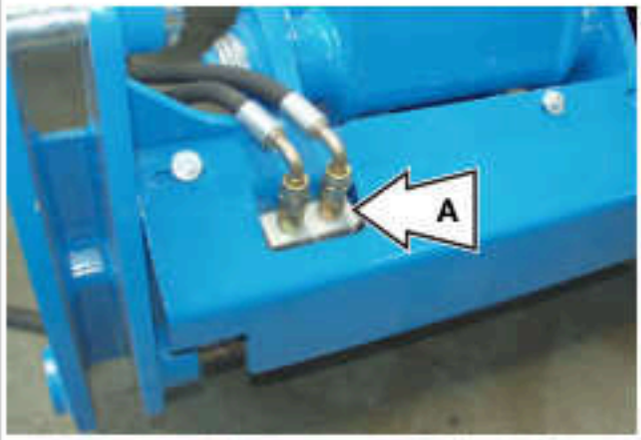
■ Checking the block valves (every 3 months)

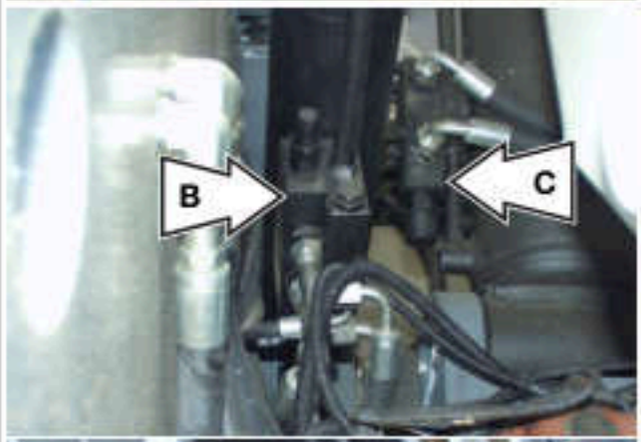
The piloted blocking valves allow to held the load in position in case of burst of a flexible hose.

To check the efficiency of a valve, proceed as follows:

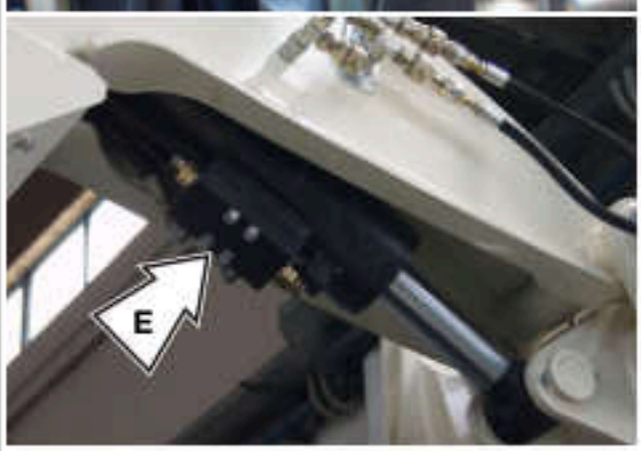
- Load a weight near the maximum payload onto the boom.
- Raise the load some centimetres above the ground (max 10 cm). To check the valve on the telescope extension cylinder move the boom to maximum height and extend it some centimetres.
- Loosen the oil hoses to the cylinder of which you are checking the valve with caution.

During the check, the oil will flow out of the hoses and the load shall remain blocked in position.
Should that not be the case, the valve must be replaced.
Contact TEREXLIFT Technical Service.



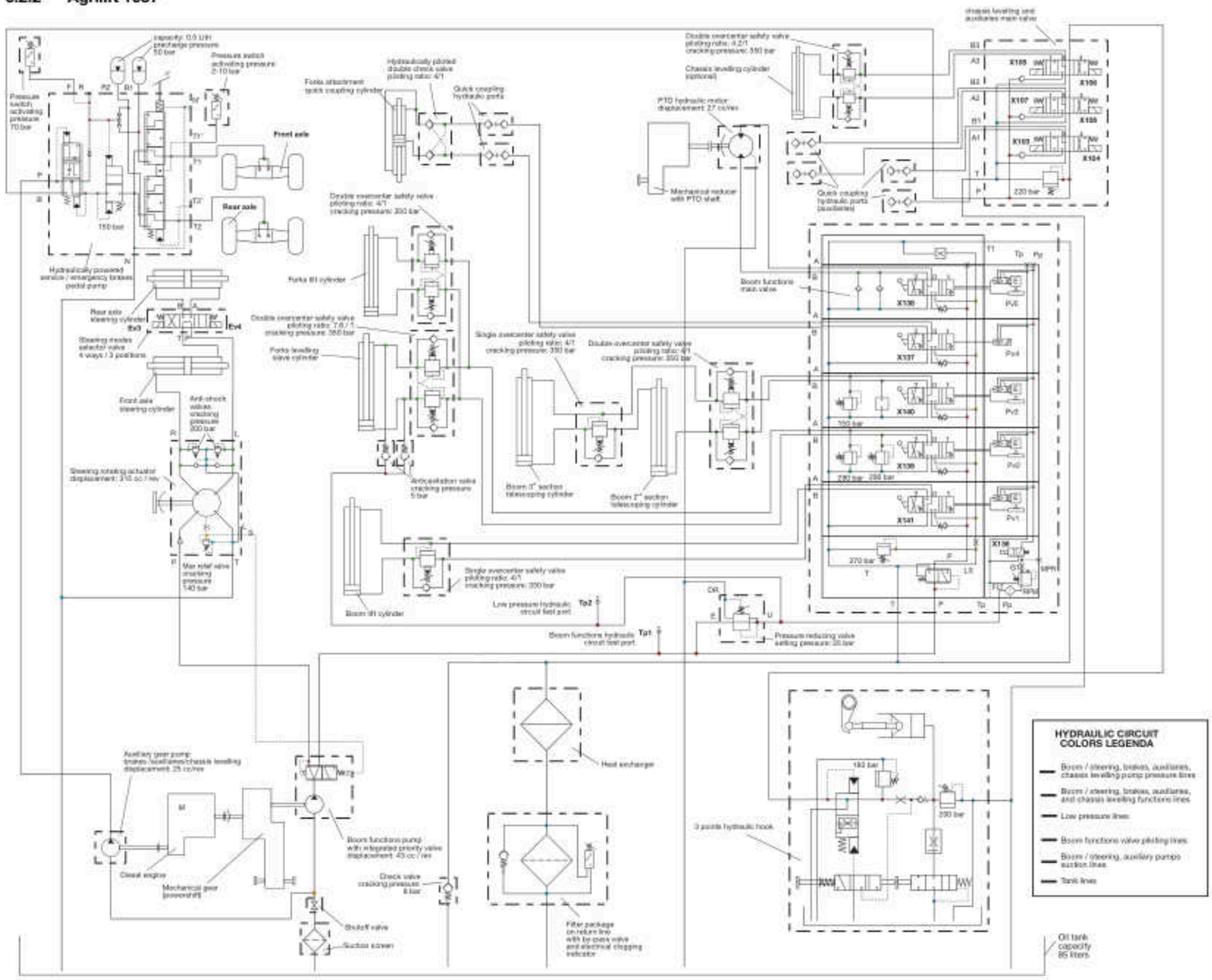






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6.2.2 Agrilift 1037



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