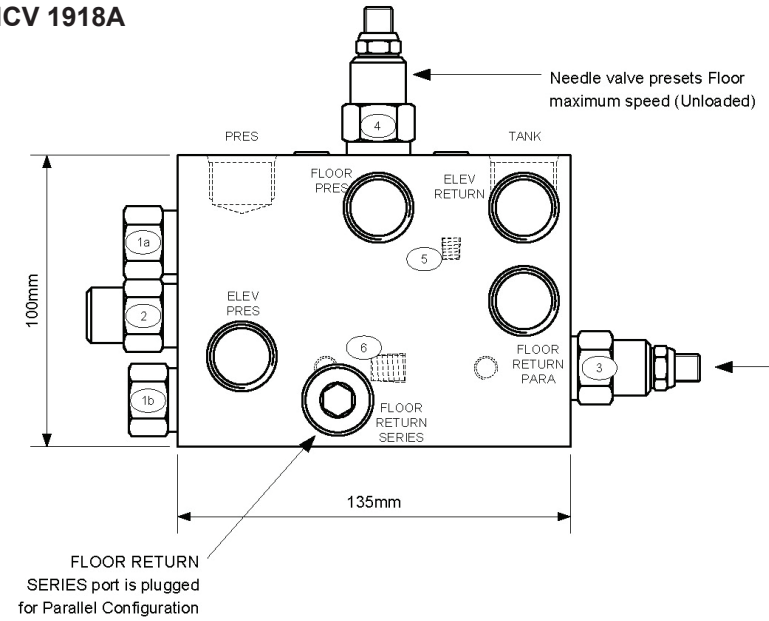
TROUBLESHOOTING

If you are experiencing a problem or have a question that is not listed in this chart below, please contact Coombridge & Alexander directly or see your local dealership for parts and service.

QUESTION / PROBLEM	SOLUTION
The floor does not move forwards.	1. Check the tractors hydraulic flow using a flow meter. No flow would indicate faulty QR couplings or tractor hydraulics. If the floor does not move forward but will go in reverse, this typically indicates a problem in the hydraulic valve block, as the oil is bypassing the hydraulic valve block when the floor is in reverse.
	2. Check that the drive chains from the motor (under the side cover) are all connected, well greased and moving freely. Any seized links in the chain will require significant pressure to drive this chain.
	3. Check the **NFCD LFN Cartridge** (or older equivalent) - the connection between the cartridge and the stainless cap that connects to the control rod can become loose - turning the control rod may not be adjusting the cartridge. If the cartridge is in the closed position the floor will not move. The cartridge can become seized which requires removing the stainless cap, lubricating with CRC and loosening the thread with an allen key. This cartridge can also be blocked, jammed or wound open too far. If wound too far anti-clockwise, the cartridge will prevent oil going to the elevator/side-feed conveyor and send it all to the floor motor.
	4. The **DPBB LAN Sensor Cartridge** is designed to stop the floor if the loading on the elevator exceeds 1800psi. This can cause a problem if the side-feed belt has tracked off to one side or it has a large build up of material underneath it, causing an increase in pressure to drive the side-feed. The sensor cartridge will stop the floor and not let it move until the pressure drops, which won't happen if there is a mechanical impediment. The easiest way to check if the side-feed is causing the problem is to isolate the side-feed by disconnecting the hoses off the motor and screwing them together. Other mechanical problems, such as damaged bearings on the elevator, will cause the same issue. **Reseting DPBB LAN Sensor Cartridge**. This cartridge should be set by loosening the lock nut and winding the thread all the way out using an allen key. The thread should then be wound in 3.75 turns and the locking nut tightened. This cartridge sets the pressure that can be applied to the elevator or side-feed. If this pressure is exceeded then the floor will stop until the pressure is relieved.

QUESTION / PROBLEM	SOLUTION
The floor does not move forwards (cont'd).	If there is a flow, but the floor, elevator and side-feed are not working, check the three cartridges in the end of the block. These cartridges have spring-loaded discs or pistons in the cartridge - if any of these have dirt or debris caught under the plate they can cause the oil to go directly to dump. The **LHDA XEN** cartridge has a piston which moves inside the stem, if this is jammed open the floor will not operate (x1 **LHDA XEN**, x2 **CXDA XAN**).
The floor moves forward but will not stop - and the elevator/side-feed does not go.	Check the **NFCD LFN Cartridge**.
The elevator and side-feed are not moving.	The elevator and side-feed motors run in series - if there is a problem preventing one motor from turning the other motor will most likely also be affected. If one motor is turning (and the other not) there is likely to be a problem with the mechanical connection between the motor and the shaft it is driving. If the elevator is not moving, check that the chain between the 11 & 30 tooth sprockets is connected, well greased and moving freely. Check that the keys, between the sprockets, motor and elevator shafts are still working and that the sprocket is not free wheeling on each shaft. If the side-feed is not moving, check that the key is still working inside the 90mm coupling and that neither of the shafts are free wheeling inside this coupling. Check the three cartridges in the end of the hydraulic valve (1 x **LHDA XEN**, 2 x **CXDA XAN**), as described above.

HCV 1918A



1	CXDA XAN	CHECK VALVE
2	LHDA XEN	FLOW COMPENSATOR
3	DPBB LAN	UNLOAD SENSING VALVE
4	NFCD LFN	NEEDLE VALVE
5	1/16"NPT x 0.7mm	DAMPENING ORIFICE
6	1/8"BSPT x 0.7mm	DAMPENING ORIFICE

DPBB Sequence will unload floor motor when elevator motor load reaches setting of say 1700psi. The DPBB must be set below tractor relief to prevent stalling. Adjusting this is the best way to control the feed rate.