

Instructions – Set Up/Synchronising Reel Lift Hydraulic Cylinders

(Midwest Serial No: MWF-13020764 onwards)

From serial no: MWF-13020764 onwards, Midwest Durus platforms have a dual master and slave hydraulic system for the reel raise and lower.

This instruction describes the steps required to set and synchronise the reel lift hydraulic cylinders either at pre-delivery or after any service work/replacement of a reel lift cylinder(s).

Step 1: Loosen Bleed Taps – Centre Lift Hydraulic Cylinders

With the reel in the lowered position, loosen counter clockwise the bleed tap on each centre reel lift hydraulic cylinder (at least 3 to 4 turns).

Ensure both taps have been loosened. (Refer to Fig 1)



Fig 1: Reel Centre Lift Hydraulic Cylinders & Bleed Tap

Step 2: Raise The Reel

With the platform drive disengaged, raise the platform reel to fully extend all the reel lift hydraulic cylinders.

Initially the outer reel lift hydraulic cylinders will extend and then the centre lift hydraulic cylinders will follow.

Hold the reel lift hydraulic circuit open for at least 3 seconds to ensure all cylinders have completely extended.

Step 3: Bleed Outer Lift hydraulic Cylinders

With the reel raise/lower combine hydraulics in the neutral position, loosen the bleed caps on an outer reel lift hydraulic lift cylinder to allow air to be purged. (Refer to Fig 2)

Once all the air has been purged from that cylinder, tighten the bleed cap.

Repeat for the opposite end reel lift hydraulic cylinder.

Note: During this process, the centre reel lift hydraulic cylinders may slightly retract when the outer cylinders are being bled.



Fig 2: Reel Outer Lift Hydraulic Cylinder & Bleed Cap

Step 4: Raise The Reel

Raise the reel to its full height, ensuring all the lift cylinders are fully extended.

Hold the reel lift hydraulic circuit open for at least 3 seconds to ensure all cylinders have completely extended.

With the reel raise/lower combine hydraulics in the neutral position, close the bleed tap clockwise on each centre reel lift hydraulic cylinder. (Refer to Fig 1.)

Step 5: Lower The Reel

Lower the reel so that the reel hydraulic lift cylinders are fully retracted.

After the reel has settled in its lowered position, with the reel raise/lower combine hydraulics in the neutral position, loosen counter clockwise the bleed tap on each centre reel lift hydraulic cylinder (at least 3 to 4 turns).

Once the bleed taps have been both loosened, re-tighten the bleed taps on both centre hydraulic lift cylinders.

Step 6: Cycle The Reel Raise/Lower

Cycle the reel raise and lower on the platform through a few cycles to check the two outer hydraulic cylinder are now phased with the centre hydraulic cylinders and that the reel raises and lowers in a level manner across its full width.

Should this not be the case, re-do the process through Step 1 – Step 6.

Before going to the field, ensure that reel fingers are set to clear the platform cutter-bar when the reel is in the fully lowered position. Refer to the Operators Manual for this set up.