

REAL

October 2019

Torque

Contact maintenance for any questions on 0800 80 80 69

Dual Height and Sliding Fifth Wheels

Dual Height Fifth Wheel

A dual height fifth wheel allows the tractor unit to switch between low and conventional height trailers, giving the customer a broader range of applications.

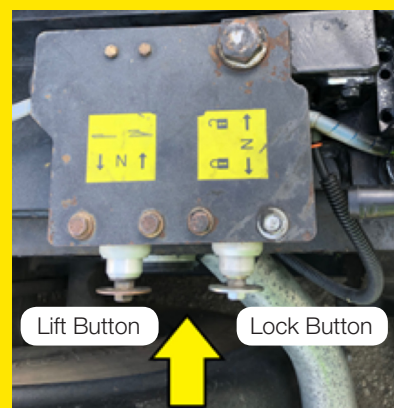
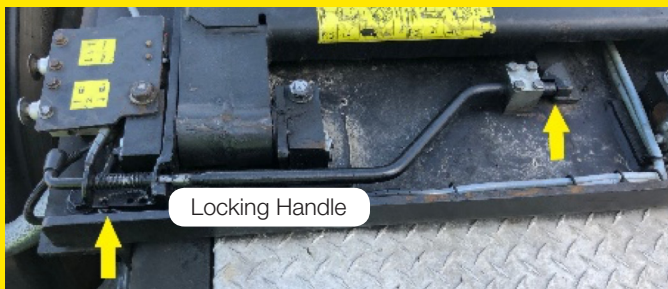
The lifting device is used to raise and lower the attached fifth wheel coupling via an air ram which is controlled by the operator. It is vital to ensure that all steps are followed correctly and the locks are in place to avoid damage or an accident.



Height Adjustment Procedure

Only operate the dual height lifting device in an uncoupled (unladen) state.

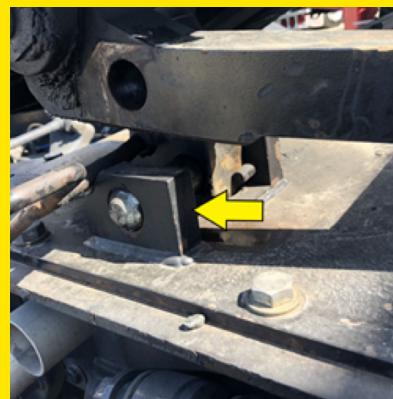
- 1 The tractor unit must be stationary with park brakes applied.
- 2 Pull the manual locking handle outwards to disengage the locking pin mechanism.



- 3 Push the lock control button inwards on the air controls to release the locking pins.
- 4 Push the lifting control button inwards to lift the fifth wheel upwards. The complete fifth wheel will then start to rise. Once it is high enough, leave the lift button in the "N" position.



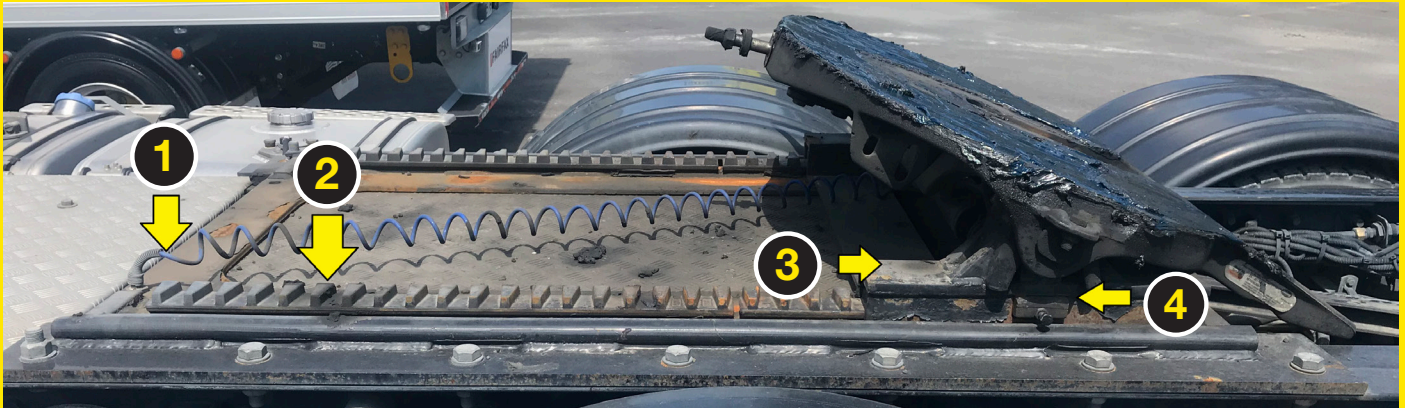
- 5 Release the 2nd height stage lock, swing the 2nd stage into place, and lower the fifth wheel onto the 2nd stage by pulling the height control valve outwards and lowering the fifth wheel onto the 2nd stage blocks.



- 6 Pull the lock control button outwards to push the locking pins back into place and push the manual locking handle inwards to engage the locking pin mechanism. Ensure that the pins are locked all the way though and are visible from the outside.

Sliding Fifth Wheel

Fifth wheel sliders allow the position of the fifth wheel coupling to be moved on the tractor unit. This allows the axle load and the load distribution to be optimised and the total length of the articulated vehicle to be reduced for ferry crossings or adapted to comply with regulations.

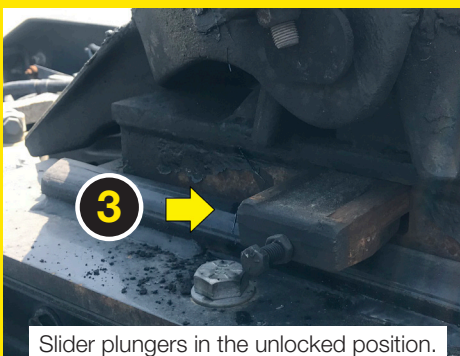
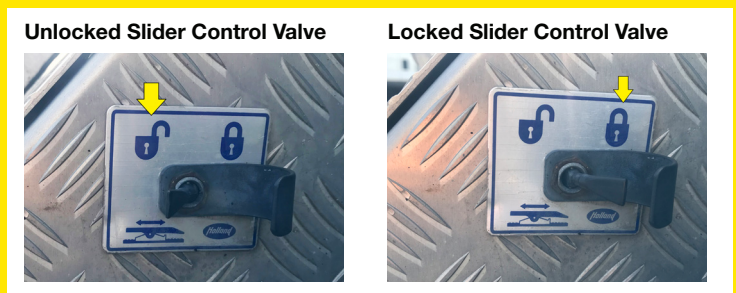


1 Air supply line to air ram for lock plungers. **2** Slider rack teeth. **3** Slider base. **4** Slider lock plunger.

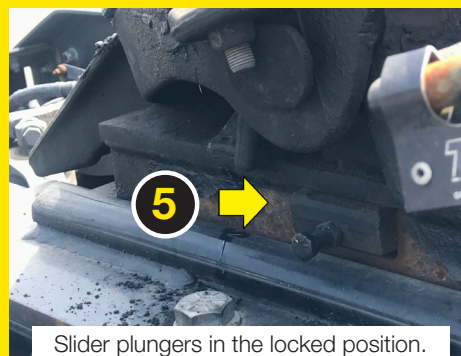
Sliding Procedure

The fifth wheel should be fully engaged to the trailer for this operation.

- 1** The tractor and trailer should be parked in a straight line on level ground. Engage the trailer brakes.
- 2** Release the slider lock plungers. For an air slide release, put the control valve into the unlocked position. For a manual slide release, pull the release lever.



Slider plungers in the unlocked position.



Slider plungers in the locked position.

- 3** Visually check both plungers have disengaged from the rail teeth. If the locking plungers are jammed in the rack teeth, try lowering the landing gear to relieve pressure on the plungers. This should allow the fifth wheel to slide more easily.
- 4** Release the tractor brakes and drive the tractor forward or backward slowly to position the fifth wheel.
- 5** After sliding the fifth wheel to the desired position, engage the slide lock plungers. For an air slide release, put the control valve in the lock position to engage the plungers to the rack teeth. For a manual slide release, trip the release arm.



TR Tips

Tips and Tricks

- ▶ It's easy for locking pins and mechanisms to not engage fully. It is vital that pins are fully engaged before operation.
- ▶ A visual inspection and a tug test is a quick and easy way to ensure everything is correctly in position before operation.
- ▶ As with all towing connections, good maintenance and regular greasing is important! If anything looks unusual, call the maintenance team.

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