

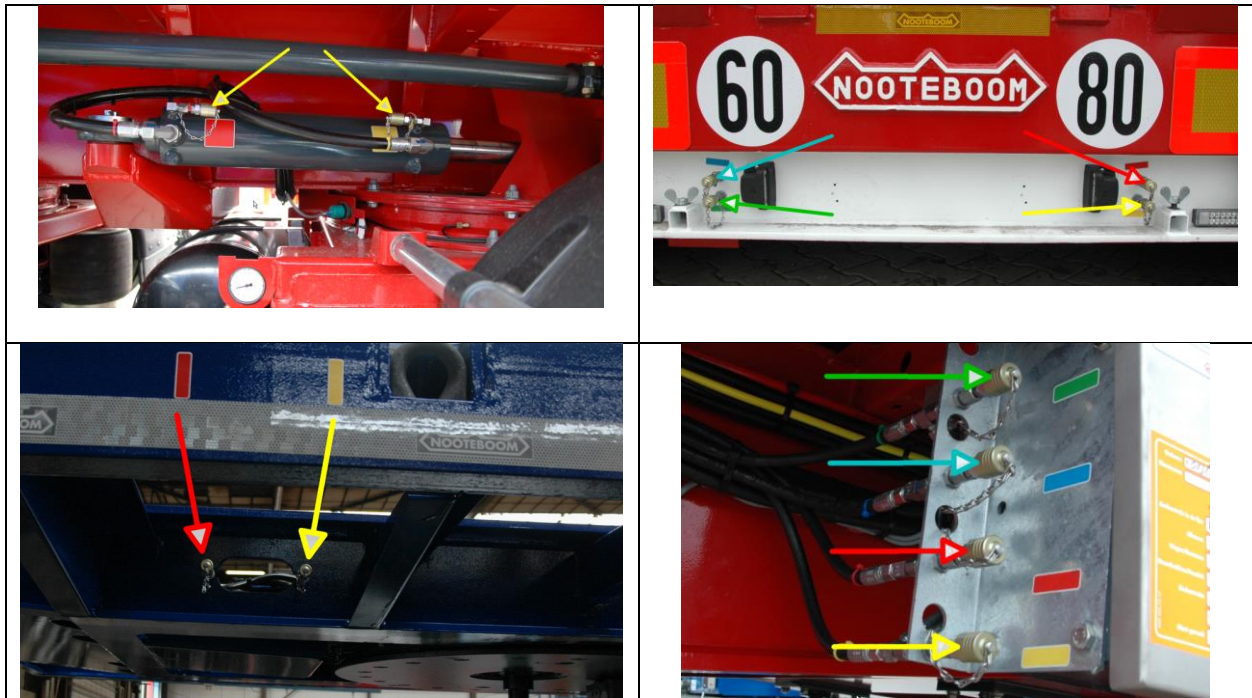


Gets you there.

1.5 Connecting an air-bleed hose to the hydraulic steering system

The hydraulic cylinders of the hydraulic steering system are equipped with air-bleed connections. These are easily accessible with extension hoses where necessary and quick-release couplings. Stickers with the colour of the circuit point out the location of these quick-release couplings of each separate circuit. See pictures below.

(Link: [What type of oil should I use for the hydraulic system?](#))



1.5.1 Bleeding air from the hydraulic steering system with pump

The hydraulic steering system has 4 independent circuits. Each circuit is allocated its own colour, indicated with coloured stickers. Each circuit must be bled separately.



Please note!

Always bleed the cylinders underneath the axle assembly first. Then move the air-bleed hose and bleed the cylinders in the gooseneck.

If it is not done in this order some air may remain in the system because the cylinder in the gooseneck is positioned higher up.

Bleeding the hydraulic circuits is carried out as follows:

- 1) Check that the 4 ball valves are in the 'Drive' position (lid closed).
- 2) Switch on the power supply.
- 3) Plug in the manual control panel or the remote control in the plug box on the semi-trailer, either at the front or at the rear.
- 4) Remove the dust cover of the air-bleed connection of the steering cylinder in the axle assembly.
- 5) Connect the air-bleed hose, see pictures.
- 6) Switch on the control panel with the switch (1), see *Figure Error! No text of specified style in document.-1.*



Gets you there.

Check that the control light (2) is on.

If the control light (2) doesn't come on, there is a malfunction.

See Figure **Error! No text of specified style in document.-1:**
Control panel manual steering.

1. On/off switch.
2. Light: is on when manual steering is switched on.
3. Pushbutton to steer left when bleeding circuits.
4. Pushbutton to steer right when bleeding circuits.



Figure Error! No text of specified style in document.-1: Control panel manual steering

See Figure **Error! No text of specified style in document.-2:**
Radio-controlled handset

1. 'On' switch.
2. Pushbutton to steer left when bleeding circuits.
3. Pushbutton to steer right when bleeding circuits.
5. Control LED green.
6. 'Off' switch.



Figure Error! No text of specified style in document.-2: Radio-controlled handset

- 7) To bleed push button (3) or (4), see **Figure Error! No text of specified style in document.-1.**
Push button (3) to bleed the red and green hydraulic circuit.
Push button (4) to bleed the blue and yellow hydraulic circuit.
- 8) Hold down pushbutton (3) or (4) until oil flows from the air-bleed hose without any air bubbles. This may take a while: per circuit in the axle assembly 3-4 litres of oil. Per circuit in the gooseneck 1.5-2 litres of oil.



Environmental advice!
Take care not to spill any hydraulic oil.

- 9) Switch the control panel off with switch (1). The control light (2) goes off.
- 10) Disconnect the air-bleed hose.
- 11) Replace the dust cover on the air-bleed connection of the hydraulic cylinder.



Gets you there.

- 12) After bleeding the circuit, check the oil level in the oil reservoir and if necessary replenish the oil via the filler opening at the top.
- 13) Repeat point 4 to 12 until all 4 circuits of the steering cylinders in the axle assembly are done.
- 14) Repeat point 4 to 12 for the steering cylinders in the gooseneck for all 4 hydraulic circuits.
- 15) Disconnect the control panel.
- 16) Switch off the power supply, see paragraph 'Switching off the power supply'.