

How to operate and maintain your STAS moving floor trailer



Step-by-step illustrated guide*

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How to operate your STAS moving floor trailer



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A moving floor trailer is a trailer equipped with a hydraulic floor system which can push out bulk loads automatically. On top of that, pallets and big bags can also be loaded and unloaded using the moving floor system.



Before starting any operation using the moving floor system, make sure that the rear doors are unlocked (doorhandles and pneumatic lock) and that the top sheet is opened.

Before starting the moving floor system

1 Make sure that the hydraulic hoses and electric cables are correctly connected.

There is a pressure supply hose (P) and a return-to-tank hose (T), NEVER reverse these two hoses as there is a risk of damaging the moving floor system and/or the pressure pump.



John's top tip:

If there is no indication on the hoses and the hoses are **factory supplied**, the hose with the biggest diameter of the two should be the return hose.



2 Make sure that the hydraulic pressure pump is set to "high pressure".

For optimal performance, your hydraulic PTO pump should deliver between **90 to 110 liters per minute at 225 bar**. Instructions to set the PTO pressure depend on the manufacturer of the truck and/or PTO system.

3 Turn on the lights of the truck.

The control circuit of the moving floor system uses power from the lighting circuit of the trailer. Without the lights, the remote control and/or control box won't work.

4 Connect or switch on the remote control.

The moving floor system is usually controlled by a remote control. The procedure for connecting or switching on the remote control depends on the model, please refer to the manual for further information. There is also a cable control box available. To use the cable version, the remote control receiver must be disconnected from the control box, and the cable must be connected in place of the receiver unit.

5 Turn on the PTO system.

While in the truck, double check that the handbrake is engaged and turn on the PTO.

You can now operate the moving floor system using the remote control or the cable control box. While unloading, shut down the PTO, release the handbrake and drive a little bit forward from time to time to release the force from unloading the load. Then restart the procedure.

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1 Daily checks

Make sure that the floorplank bolts are fitted securely.

If you can feel any movement between the bolts in the planks and the planks themselves, it is highly recommended that the bolts are replaced.

Where fitted, check the seals between the floor planks.

If there is visible deterioration or damage, it is recommended to replace the seals.

Check your hydraulic pistons.

Working underneath the trailer, take a closer look at the three hydraulic pistons to check for wear and tear, or any obvious damages.

Hydraulic oil check.

Check that there is enough hydraulic oil in the buffer tank (at least 150L). If necessary, top up the oil tank with the right grade of hydraulic oil (ISO VG 32).



2 Regular maintenance procedures

Clean out the upper rail twice a week.

The upper rail needs to stay clean to prevent seizure of the sliding wheels, thus blocking the moving bulkhead. You can clean the rail using a compressed air gun. When transporting dusty loads, it is recommended to do this every time after unloading.

Hydraulic system.

It is recommended to check the condition of the hydraulic oil every six months (hydraulic oil must have a light yellow, olive oil-like color, when the oil is deteriorating, the color turns darker or milky.) The hydraulic oil filter should be replaced every year, and the hydraulic oil should be replaced every two years (or sooner, depending on the results of your daily checks). Visually inspect all the hydraulic connections once a week. Check for dirt, debris, and obvious damages.

Cleaning your moving floor trailer.

To keep your moving floor trailer in optimal condition, cleaning it cannot be overestimated. Not only do you prevent fast wear of the moving floor system and other moving parts, it's also a good opportunity to check for other problems. It is recommended to use a pressure washer (60 -100 bar) with warm water (40 - 60°C) and a light cleaning agent to do this.



John's top tip:

For the first four months, just use cold water. The paint needs to cure for a few months before becoming rock solid.

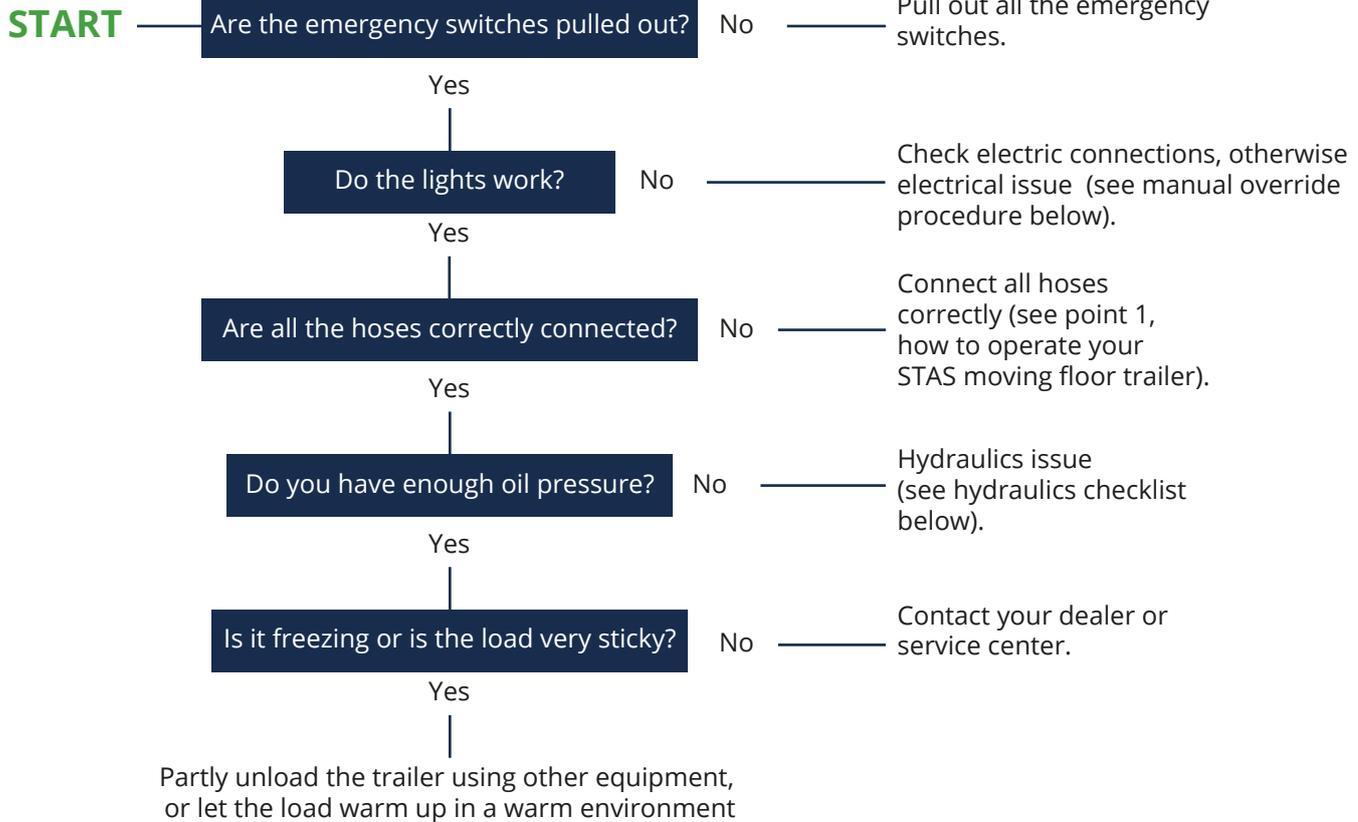


Troubleshooting

What to do when your moving floor isn't working



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Manual override procedure



make sure the rear doors are unlocked (doorhandles and pneumatic lock) and the top sheet is opened.

1. Switch off your PTO.
2. Locate the main system valve block on the trailer and remove the yellow clip from the red knob (fig 1 and 2).
3. Turn the red knob clockwise to overrule the control box (fig 2).
4. Remove the black cap next to the red knob (fig 3).
5. Turn the screw underneath the black cap fully clockwise to unload, or fully counterclockwise to load (fig 3).
6. Start your PTO, the moving floor system will immediately start moving after you do this.
7. To stop the unloading/loading procedure, switch off the PTO and turn the red knob counterclockwise again.

fig. 1



fig. 2



fig. 3



Hydraulics checklist

1. Is your oil tank full? (the system needs at least 150 liters of hydraulic oil.)
2. Is the safety valve of the PTO correctly tuned?
3. Does your PTO pump deliver enough oil at the right pressure? (90 - 110 liters per minute at 225 bar.)
4. Are there any leaks or obvious damages in the system?

If all these points check out, but the moving floor system still does not work, please contact your dealer or service center, or contact **STAS Trailers via www.stas.be**.



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