

Technical Information

Stoll Frontlader



HydroFix Faster coupling

Scope: STOLL front loader with Hydro-Fix quick coupling

Symptom: The Hydro-Fix leaks

Possible cause: External contamination, coupling is under hydraulic pressure

The Stoll Hydro-Fix is a convenient means for connecting the front loader hydraulically (option also for an electrical connection) to the tractor.

To benefit from this convenience for a long time, the operator should observe a few things:



Cleanliness

Cleanliness is the most important factor when coupling the Hydro-Fix. Coarse dirt and fine dust are part and parcel of any agriculture work. The Hydro-Fix upper part as well as the lower part must be cleaned before the two parts are coupled.

If there is an unusually high amount of dirt, it is advisable to clean the equipment with water and then wiping it dry. If it is only slightly dirty, a dry or damp cloth is sufficient.

The electrical connection must be briefly blown clean using compressed air at the appropriate distance; while observing the applicable safety regulations for handling compressed air.

If the equipment is not cleaned carefully, dirt particles can enter the hydraulic system.

These particles can damage the seals in the male-to-female connection. In the worst case scenario, contaminants can enter the hydraulic system and damage the components (control units, hydraulic cylinders, etc.).

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Coupling under hydraulic pressure

If the parts are coupled when the maximum pressures listed below are exceeded, this may damage the seal and/or bend the locking lever.

If the lever is bent and an air gap forms between the two Hydro-Fix parts, it can no longer be guaranteed that the parts will work properly.

There is a risk of leaks and that the individual hydraulic lines are no longer hydraulically connected to the front loader. It can also turn the male-to-female connection into a throttle point in the system if the coupling process is not completed and this leads to restrictions in the operation.



There are currently two versions of Hydro-Fix upper parts on the market. The lower part with the built-in Faster coupling 2FFNB is identical for both versions.

Version 1:

This version was available until mid-2016. A Faster coupling 2FFNP is installed in the upper part. In combination with the socket of the lower part, it can be coupled under the following residual pressure:

Tractor side **0 bar** – front loader side **max. 60 bar**

Version 2:

Version 2 is available from mid-2016, and a Faster coupling 3FFNP is located in the upper part. In connection with the lower part, the coupling 3FFNP allows higher coupling pressures than was possible version 1.

Tractor side **0 bar** – front loader side **max. 250 bar**

or

Tractor side **max. 60 bar** – front loader side **0 bar**