SERVICE MANUAL

810LA / 815LA / 830LA / 835LA / 850LA / 855LA / 857LA / 910LA / 915LA / 917LA / 935LA / 937LA / 975LA

Farm Loader

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12. TROUBLESHOOTING

Loader malfunctions are frequently caused by factors not related to the loader:

- Check the hydraulic oil level in the tractor's hydraulic tank. Top up to the correct level.
- Check that the correct hydraulic oil is used. Only use the hydraulic oil specified in the tractor's User Manual. The wrong hydraulic oil can cause foaming, overheating and internal leakage.
- Make sure that hoses and couplings are correctly installed and connected to the tractor. Hydraulic couplings must be fully engaged.
- Check that the hydraulic oil is clean and free from moisture. Change the hydraulic oil and filter as necessary.
- Check hoses and couplings for leakage, abrasion and twist.
- Low temperatures can cause slow movements or cause the loader to function irregularly until the normal working temperature is reached. Verify that the hydraulic oil maintains normal working temperature before testing the loader.
- When using the tractor's own valve to control the loader, ensure that the tractor's valve is adjusted for double-acting function. Check that the flow control has been set to maximum flow.
- Move the loader's cylinders to their end positions several times to remove air from the hoses and cylinders.

If problems occur, use the troubleshooting tables *12.1. Troubleshooting table - loaders*.

12.1. Troubleshooting table - loaders

Problem	Possible cause	Action
Non-functioning lifting and implement cylinders	Low hydraulic fluid level	Check and top up with hydraulic fluid.
	Hydraulic hoses incorrectly connected.	Check and connect the hoses correctly.
	The hydraulic hoses to/from control valve are "blocked".	Check hoses for damage (kinks, twists, etc.).
	Loader control valve or tractor's main relief valve is stuck in the open position.	Refer to tractor service manual for servicing the tractor hydraulic system.
	Low system pressure from pump.	Refer to tractor service manual for servicing the tractor hydraulic system.
Non-functioning lift or implement cylinders	Break in control cables for control valve.	Inspect. Replace if necessary.
	Hydraulic quick-release couplings not fully engaged.	Check the connection. Replace coupling(s) if necessary.
	Blocked hydraulic hose/pipe.	Look for damage to hose/pipe that could block oil flow between cylinder and control valve.
	Piston unit damaged (does not seal).	See *11. Service - Cylinders*.
	Blocked control valve.	Determine cause of blockage, repair or replace as necessary.
	Damaged quick-release coupling.	Replace quick-release coupling.

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Loader model		815LA	835LA	855LA	857LA	915LA	917LA	935LA	937LA	955LA
Dimensions specification (mm/inch)										
(J)*	Total height in carrier position	1860/ 73,2	1960/ 77,2	2060/ 81,1	2060/ 81,1	2200/ 86,6	2210/ 87	2285/ 90	2285/ 90	2490/ 100
K*	Greatest breakout angle at max lift height	48°	58°	48°	61°	60°	63°	62°	59°	60°
(L)**	Bucket depth	810/31,9								
(M)**	Bucket height	750/29,5								
(N)**	Bucket length to pivot point	1060/41,7								
P*	Reach at max lift height to pivot point	1530/ 60,2	1615/ 63,6	1665/ 65,6	1625/ 64	1935/ 76,2	1925/ 75,8	1965/ 77,4	2022/ 79,6	2010/ 80
R*	Reach at max lift height with bucket tipped 45°	2060/ 81,1	2145/ 84,4	2195/ 86,4	2155/ 84,8	2465/ 97	2455/ 96,7	2495/ 98,2	2552/ 100,5	2540/ 100
S*	Reach at max excavation depth to pivot point	1835/ 72,2	1965/ 77,4	2095/ 82,5	2200/ 86,6	2300/ 90,6	2560/ 100,8	2535/ 99,8	2710/ 106,7	2560/ 100,8

*The value may vary somewhat depending on the tractor model, subframe and bucket model.

**The value varies depending on the bucket model. The table value is based on the HD series buckets.

The value in ( ) refers to ASAE standard S301.

Max hydraulic pressure 210 bar / 21 Mpa/3050 psi.

Working temperature (ambient) -30/+50 (C°) / -22/+122 (°F).

NOTE! At low outdoor temperatures, the loader has reduced functionality until the tractor's hydraulic fluid reaches operating temperature. See the tractor's user handbook for further information.

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6. Pull out the positive accumulators (+). There may be one or two accumulators depending on loader size.

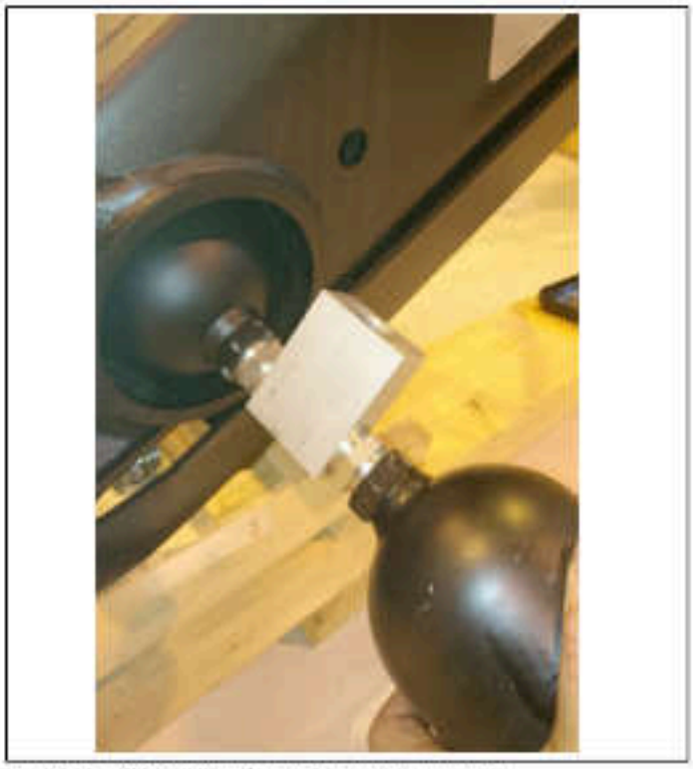


Fig. 108 Pull out the (+) positive accumulator

7. Insert the arm into the cross tube and guide the negative accumulator (-) so that the hose passes into the cross tube. Next, pull out the accumulator.



Fig. 109 Insert the arm into the cross tube and guide in the (-) negative accumulator

8. Replace defective accumulators and reinstall the parts in reverse order. Torque tighten as per *13.1.1. Table - Tightening torque*.

10.5. Compact Valve Unit (CVU) with associated function modules

The Compact Valve Unit (CVU) is a distribution valve with various associated function modules.

Compact Valve Unit (CVU) function modules:

- **Module CB01** connecting block "Basic"

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2.2.10. Hydraulic implement connection, Multi-coupler

Facilitates connection and disconnection of implement hydraulics to the third and fourth hydraulic functions. The Multi-coupler eliminates the risk of incorrect connection and oil spillage.

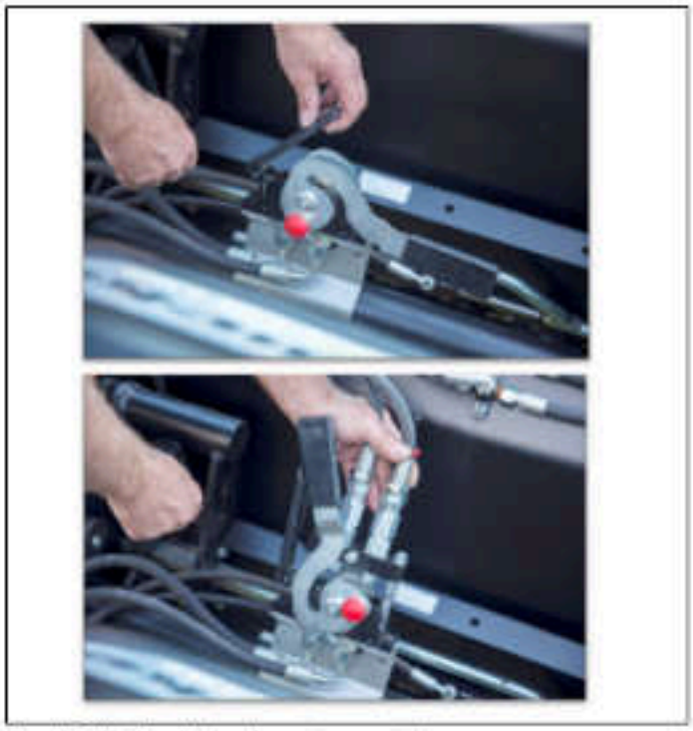


Fig. 15 Hydraulic implement connection

2.2.11. Hose kit

Hoses and hydraulic components for connecting the loader to the tractor's own control valve.

2.2.12. Soft Ride, Load Damping System

Improves operator comfort.

Secures the load; reduces the risk of the load falling from the implement.

Reduces stress on the tractor and loader when driving on rough surfaces.

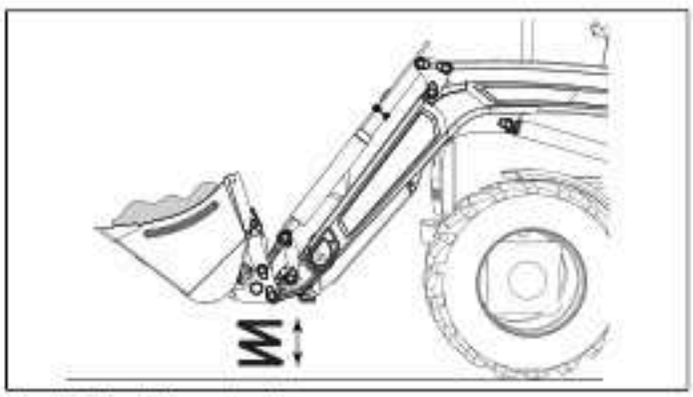


Fig. 16 Load Damping System

2.2.12.1. Electric shut-off, boom suspension

Joystick button to activate or deactivate the loader's boom suspension function.

If the loader is controlled using the tractor's own joystick, there may be a separate button that activates/deactivates the boom suspension function.

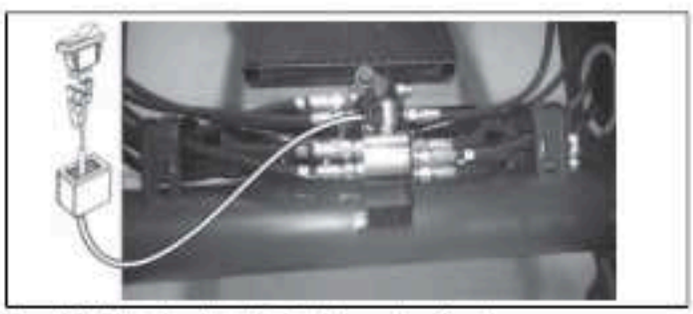


Fig. 17 Electric shut-off, load damping function.

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