



TSB090908-014

TECHNICAL SERVICE BULLETIN

SUBJECT: CHOP MECHANISM WILL NOT RETURN TO UP POSITION

AFFECTED MODELS: SR, SRA AND AR SERIES HARVESTERS

On some models, the chop mechanism may not return to the up position after chopping. This may occur only intermittently and operate normally most of the time or the chop may stay in the down position.

The cooling fan motor case drain (**Figure 1**) on models prior to serial No. 208 (SR), 109 (SRA) and 108 (AR) is connected to a return-to-tank circuit that is attached to the manual chop valve. See **Figure 2**. Because the fan motor case drain is connected to the chop valve return circuit, it can create enough pressure to cause the chop system to remain in the down position. Routing the fan motor case drain directly to tank eliminates this problem.

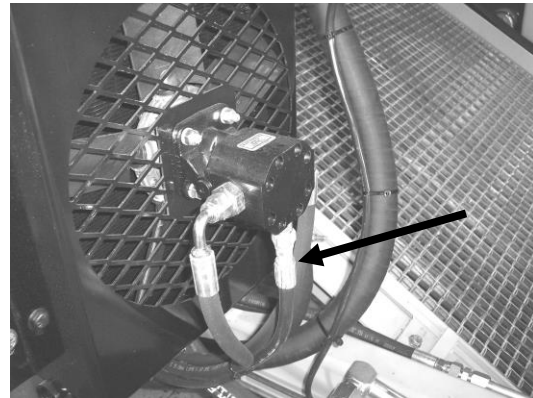


Figure 1—Cooling Fan Motor Case Drain

To determine if the fan motor case drain is causing the chop mechanism to not return to the up position, disconnect the case drain from the fan motor (**Figure 1**). Plug the hose using a No. 6 JIC plug and cap the motor fitting using a No. 6 JIC cap. Operate the harvester and chop system. If the chop system now operates normally, the fan motor case drain is causing excessive pressure in the return-to-tank circuit.

1. Disconnect the fan motor case drain hose from the T-fitting at the manual chop valve. Using a No. 6 JIC cap, cap the Tee-fitting as shown in **Figure 2**.

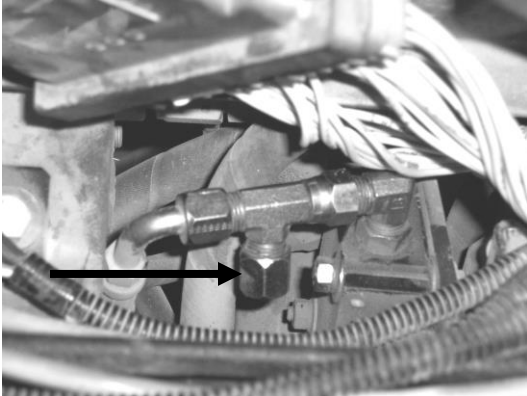
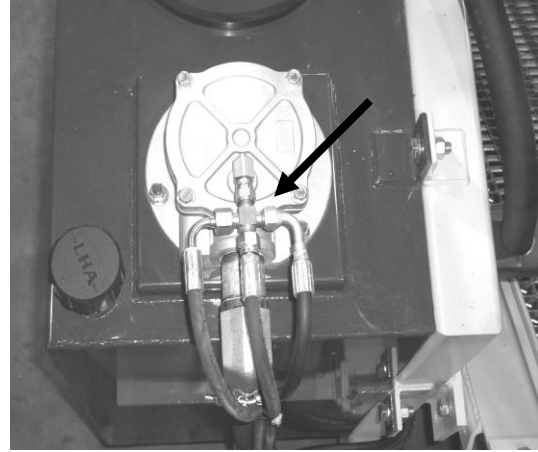


Figure 2—Disconnect Fan Motor Case Drain Hose and Cap the Fitting

2. Disconnect the case drain hose from the cooling fan motor **Figure 1**).
3. Disconnect the two return hoses and remove the swivel nut run Tee fitting at the hydraulic reservoir. Install a No. 6 swivel union and a No. 6 union cross as shown in **Figure 3**.

Figure 3—Install a Swivel Union and Union Cross to the Reservoir as Shown.



4. Attach an appropriate length hose with No. 6 female JIC fittings to the cooling fan motor. Route the hose under the harvester as necessary to avoid moving or sharp components. Clamp or tie the hose as required.
5. Attach the hose to the hydraulic reservoir union cross fitting as shown in **Figure 3**. Operate the harvester to check for proper chop system operation. Check for leaks and tighten the fittings as necessary.

Contact Bucyrus Equipment Company Inc. (800-330-0857) for the necessary parts to perform this update.

- Part No. 1300100-Hose Assy—case drain hose