

Service description

Product: SP400	Service description no: 3125-S002	Ver: 1
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Symptom

Adjust distance between the impeller and the cutter.

Caused by

Incorrect distance in the pump housing.

Solution

Adjust the distance between the impeller and the cutter.



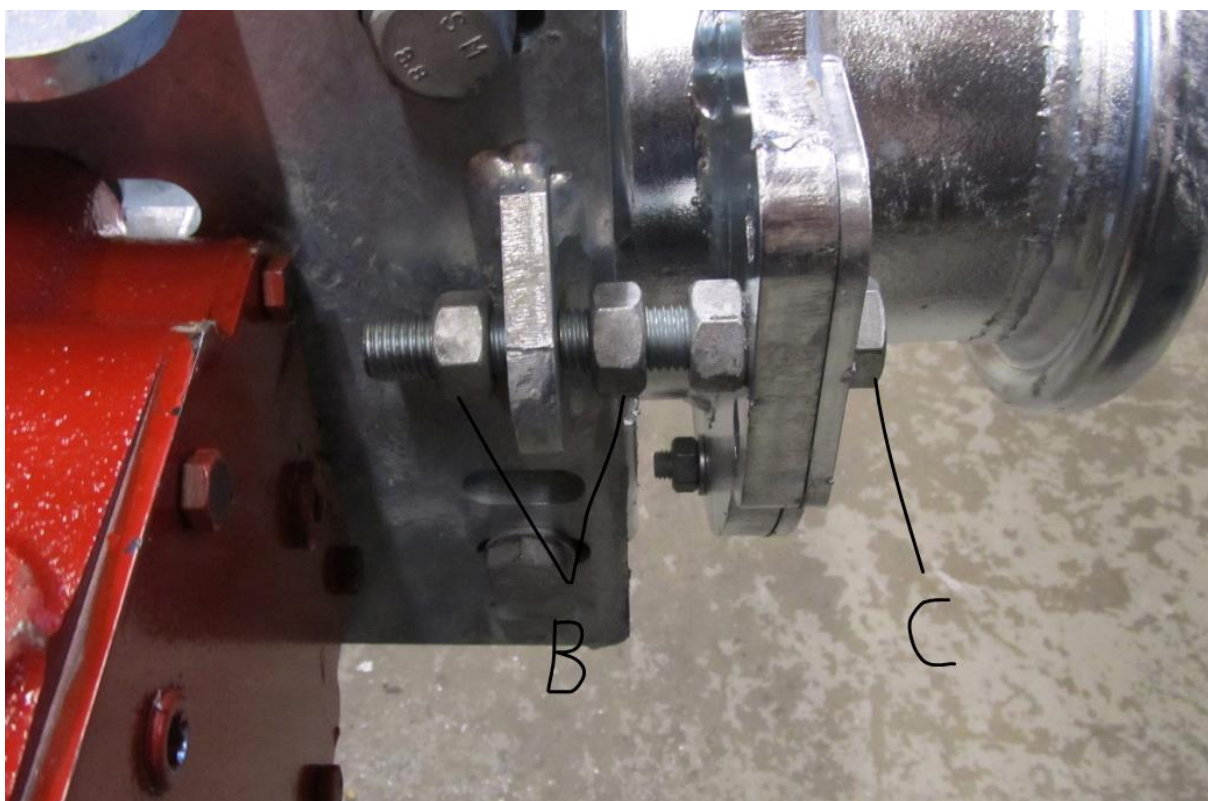
To maintain good cutting capacity, the distance between the impeller and the cutter must be 2-3mm. The distance is checked at least once per season or after 40 hours. If the distance is too small, a bump may occur which causes vibrations. Too large distance will result in a loss of power.

The distance is adjusted as follows:

1. Release the screws that hold the housing, where the gearbox is located.



2. Release the set screws B and adjust with the screws C to the recommended distance of 2-3 mm between the impeller and the cutter.



3. The set screws B are tightened.
4. Tighten the screws holding the housing to the gearbox.

If the distance cannot be further adjusted by moving the housing to the gearbox, further adjustment can be made by doing the following steps:

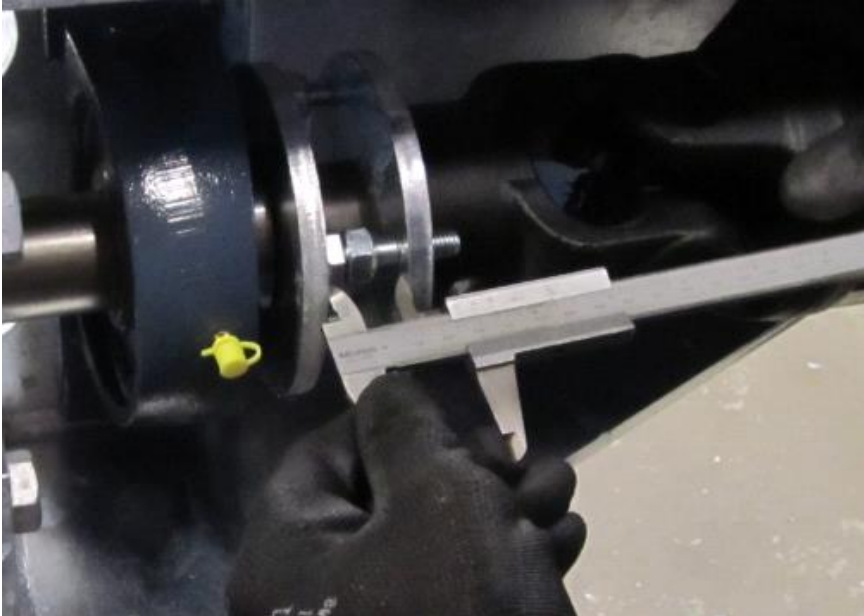
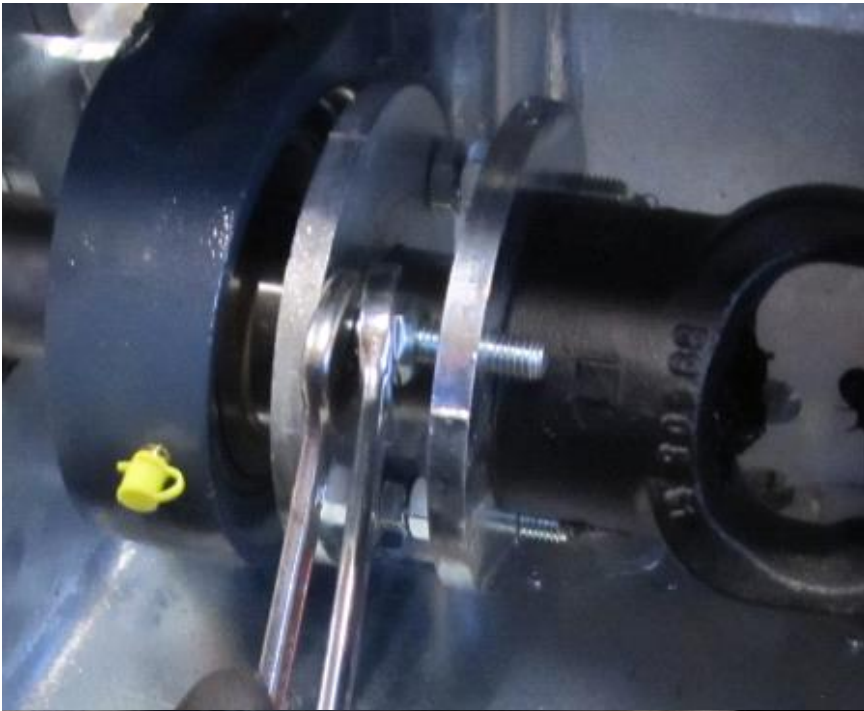
1. Release the screws that hold the housing where the gearbox is located.



3. Release the set screws on the bearing.



4. Adjust the distance in the pump housing by adjusting distance washers between the bearing and the universal joint. By reducing the distance between washers, the universal joint will be pushed down towards the bearing, and distance between the impeller and the cutter will decrease. It is important to check that the distance between the three adjustment screws is the same.



5. Move the gearbox after that the ratio of the gearbox to the universal joint would be the same as before.
6. Screw the gearbox and the housing that contains the gearbox.