Technical Service BulletinTSB-0105618-08-2023 ISSUE 2Machine / ModelStripper header / CVS & XCVYear / SN#All Years

## Variable Speed Pulley Hub Wear Check

**ISSUE CHANGES –** 

| ISSUE | DATE     | CHANGES                                          |
|-------|----------|--------------------------------------------------|
| 1     | 17.07.23 | TECHNICAL SERVICE BULLETIN CREATED               |
| 2     | 18.08.23 | PULLEY WIDTH VARIATION DIMENSION NOW DECIMALISED |



Shelbourne Reynolds recommends that it is good practice to thoroughly check over a Stripper Header prior to harvest in order to maximise the machines efficiency and avoid any potentially disruptive and inconvenient down time during harvest.

# This bulletin provides guidance on checking variable speed pulley hub wear.

This process must be carried out prior / during variable speed pulley bearing replacement.

Two methods are shown:

- 1. Pulley fully functioning on machine
- 2. Pulley removed from machine / disassembled



**TSB-01056** Machine / Model Stripper header / CVS & XCV

Year / SN# **All Years** 

## Variable Speed Pulley Hub Wear Check

## Method 1: Pulley fully functioning on machine

Run the Stripping Rotor to your typical operating speed (Combine at 1. full revs).



#### Stop the machine and implement the safe stop procedure

- 2. Open drive guard fully or remove from the machine for best access.
- 3. Record measurements (using table on page 3) from rear (A) and front (B) of pulley as shown below.





0.10

N

OLDS



of pulley sheaves

TSB-01056 Machine / Model Stripper header / CVS & XCV

Year / SN# All Years

18-08-2023 ISSUE 2

## Variable Speed Pulley Hub Wear Check

Close guard, run header and increase rotor speed by a 50rpm increment 4. (Combine at full revs) using the "+" button on the Shelbourne monitor.



#### Stop the machine and implement the safe stop procedure

- 5. Repeat steps 2 and 3.
- Close guard, run header and reduce rotor speed to 50rpm less than your 6. typical operating speed (Combine at full revs) using the "-" button on the Shelbourne monitor.
- 7. Repeat steps 2 and 3.

| Measurement             | A              | В              | Variation (A-B) |
|-------------------------|----------------|----------------|-----------------|
| **Example**             | 79mm or 3.110" | 78mm or 3.070" | 1mm or 0.040"   |
| Typical Rotor Operating |                |                |                 |
| Speed:rpm               |                |                |                 |
| + 50rpm                 |                |                |                 |
| - 50rpm                 |                |                |                 |

#### If pulley width variation is measured at greater than 2mm or 0.080" (5/64") at any speed, it is recommended the pulley hubs are replaced.

Replacement pulley assembly: KIT-01463



Excessive variable speed pulley hub wear can lead to premature cam bearings failure and may cause potential damage to the machine and possible risk of fire.



Machine / Model Stripper header / CVS & XCV

TSB-01056

18-08-2023 ISSUE 2

Variable Speed Pulley Hub Wear Check

### Method 2: Pulley removed from machine / disassembled



Stop the machine and implement the safe stop procedure

- 1. Remove rear pulley assembly from the machine.
- 2. Using a clamp and appropriate size shim (listed in results table on page 5). Position clamp and shim as shown in diagram below. Apply light tension to clamp. Do NOT overtighten.



0.110

Ν

OLDS

Machine / Model Stripper header / CVS & XCV

TSB-01056

Year / SN# All Years

18-08-2023 ISSUE 2

- 3. Take measurements at 'A' and 'B' as shown in diagram. Record results in table below.
- 4. Repeat steps 2 & 3 for the three shim sizes. Calculate and record Variation.

| Shim Size    | A              | В              | Variation (A-B) |
|--------------|----------------|----------------|-----------------|
| **Example**  | 79mm or 3.110" | 78mm or 3.070" | 1mm or 0.040"   |
| 6.5mm - 1/4" |                |                |                 |
| 11mm - 7/16" |                |                |                 |
| 14mm - 9/16" |                |                |                 |

#### If pulley width variation is measured at greater than 2mm or 0.080" (5/64") at any shim size, it is recommended the pulley hubs are replaced.

Replacement pulley assembly: KIT-01463



Excessive variable speed pulley hub wear can lead to premature cam bearings failure and may cause potential damage to the machine and possible risk of fire.



Page 5 of 6