



## Procedure for Repositioning IS5100Z Hydro Drive Spring

This bulletin details an inspection and correction procedure for Ferris IS5100Z Series Zero-Turn Riding Mowers that may potentially have their hydro drive tensioning spring incorrectly positioned. If you have a unit that is listed in the chart below please perform the following inspection procedure, and if necessary, the correction procedure.

Brand	Model Number	Serial Number Range	Description
Ferris	5900507	2017064093 - 2017409840	IS5100ZC33D ANSI EXPORT
Ferris	5900979	2017068685 - 2017409271	IS5100ZC33D61 ANSI EXPORT
Ferris	5900995	2017408382 - 2017408430	IS5100ZC33DCE
Ferris	5900996	2017068954 - 2017068955	IS5100ZC33D61RDCE
Ferris	5901282	2017068956 - 2017468733	IS5100ZC33D72
Ferris	5901283	2017178375 - 2017468907	IS5100ZC33D72RD

### Inspection Procedure:

1. Park the zero-turn rider on a smooth, level surface such as a concrete floor. Disengage the PTO, engage the parking brake, turn the ignition switch to OFF, and remove the ignition key.
2. Release the hood latch, raise the hood, and secure in the open position.
3. Remove the rear belt shield.
4. Observe the hydro drive idler arm (**A, Figure 1**) and tensioning spring (**B**).
5. There are two spring mounting holes in the hydro drive idler arm:
  - If the spring is installed in the **upper hole (C)** of the hydro drive idler arm, the spring is **not installed correctly**, perform the *Correction* procedure.
  - If the spring is installed in the **lower hole (D)** of the hydro drive idler arm, the spring is **installed correctly** continue with step #6.
6. Re-install the rear belt shield and lower the hood. Make sure the hood is firmly latched.

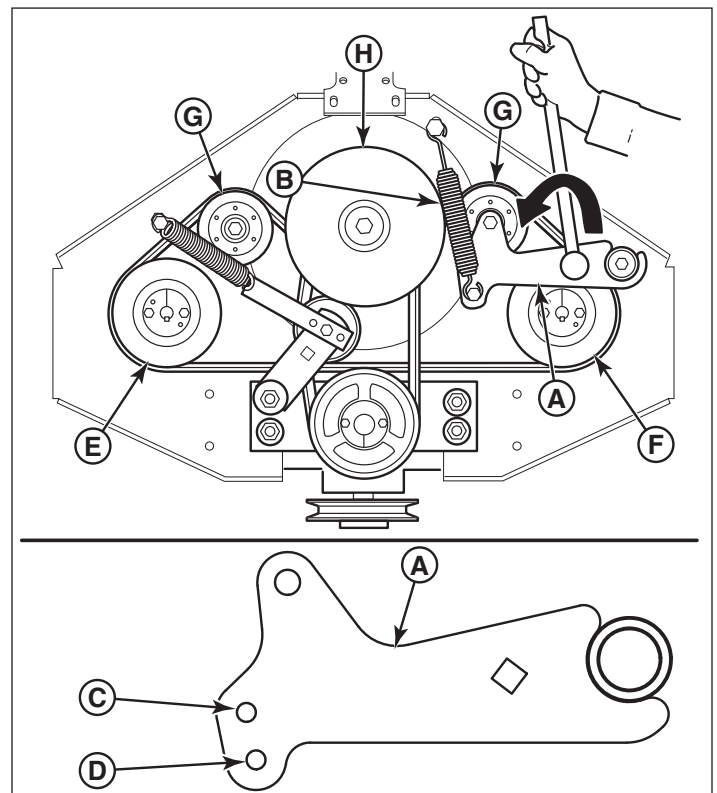


Figure 1. Inspecting the Idler Arm

### Correction Procedure:

1. Using a 1/2" breaker bar, place the square end in the square hole located in the idler arm (**A, Figure 1**). Carefully rotate the breaker **counter-clockwise** which will relieve the tension on the belts exerted from the idler arm.

**\*\* You can find ALL of our Product Information Sheets on The Power Portal.**

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- Remove the belts from the grooves of the left hand pump drive pulley (E) and right hand pump drive pulley (F).
- Carefully release the tension on the breaker bar.
- Loosen the hardware (A, B, & C, Figure 2) that secures the tensioning spring (D) to the upper hole of the idler arm and re-install it into the lower hole.
- Carefully rotate the idler arm with the breaker bar **counter-clockwise**. While holding the breaker bar firmly, install the belts in the grooves of the left hand and right hand pump drive pulleys (E & F, Figure 1).
- Inspect the belt path to make sure that both belts are properly seated in the grooves of the pump drive pulleys (E & F), the idler pulleys (G), and that the back side of the belt contacts the face of the crankshaft pulley (H).
- Re-install the rear belt shield and lower the hood. Make sure the hood is firmly latched.

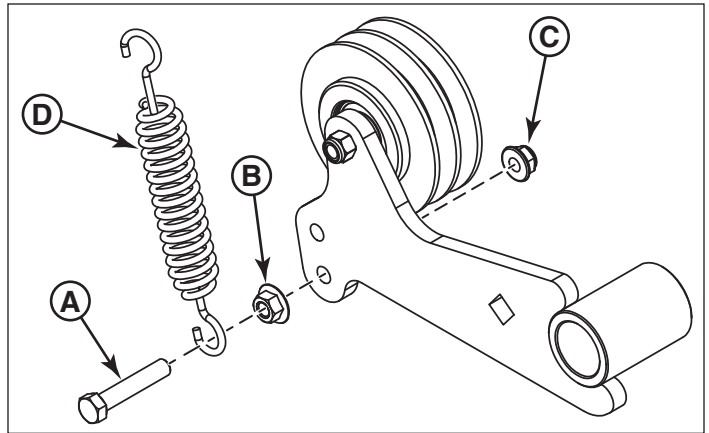


Figure 2. Repositioning the Tensioning Spring

### Warranty:

File for warranty reimbursement using e-Claim at [www.ThePowerPortal.com](http://www.ThePowerPortal.com). Use the values listed below when filling out the claim. The information in the "Brand" block indicates which tab the claim should be filed under. *Note: File only one unit per claim form.*

<b>Brand</b>	Ferris		
<b>Failure Location Category</b>	L+G - Motion Control	<b>Cause of Failure</b>	PI70
<b>Failure Location Code</b>	F78	<b>Work Performed</b>	PI70
<b>Defect Code/Failure Mode</b>	A/W	<b>Repair Parts Used</b>	N/A
<b>Control/Evaluation Number</b>	PI70		
<b>Pick-Up &amp; Delivery</b>	N/A		
<b>Total Hours (Tenths):</b>	0.1 (inspection); 0.3 (inspection and repair)		

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