



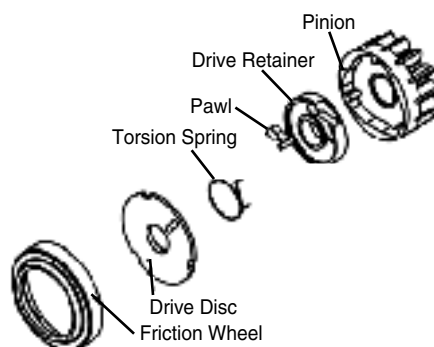
Service Bulletin	B0302001
	2003-04

Products: **5521CH**
 5521RS
 55B21HV
 55R21HV

Subject: **Troubleshooting Pinion/ Pawl Drive System**

The following pages provide troubleshooting information when dealing with drive issues on the above walk mowers.

Pinion/ Pawl Drive Parts



Step 1) If wheels do not roll back when pulling the mower backwards

Push the mower slightly ahead after releasing the drive control to release the drive system, then pull back. If problem remains, continue to Step 2.

Step 2) Check for drive creep

Remove drive covers and verify that the driven pulley is not rotating or trying to rotate. If you see belt creep, continue to next steps.





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Step 3) For model 5521RS only

Readjust Auto Walk control to reduce belt tension

The drive cable is too tight and not releasing completely. Readjust the drive cable per instructions listed on the back of the Auto Walk Control.



1. Pull trigger to handle



2. Push reset button while holding trigger



3. Release trigger and push trigger to end of stroke while holding button

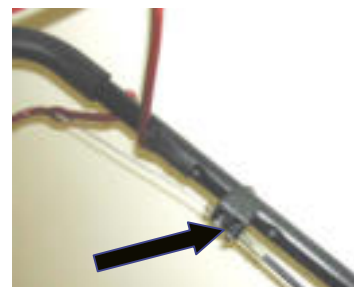


4. Release button

Step 4) For model 5521CH only

Readjust under bail control

Readjust under bail control to further reduce belt tension. Loosen the drive cable by rotating the adjustment clockwise.



Step 5) For models 55B21HV & 55R21HV only

Hi Vac Models - Readjust Auto Walk control

Readjust Auto Walk control per these instructions, the cable is too tight and not releasing completely.



Pull out the Reset Button



Pull up on the trigger until it bottoms out on handle



Push the reset button back in



Control is set to the longest cable length



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Step 6) Check belt keepers

Belt keepers are designed to bias the belt from the drive pulley when traction drive is released.

Hi Vac - Belt keepers are located on the inside of the debris shield and may have worn. Belt must be mounted to the inside of the belt keeper.



Hi Vac

FGD (Front Gear Drive) Auto Walk - Belt keeper is located underneath the drive cover and mounted to the deck. Belt should be mounted between the belt keepers.



FGD

RGD (Rear Gear Drive) Auto Walk - Belt keeper is bolted to the debris shield and must be mounted so that the belt is guided between the legs of the belt keeper.

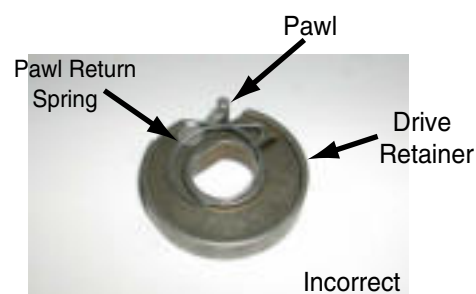


RGD

Step 7) Pawl return spring

If belt creep is not the problem, check the following:

The pawl return spring is not engaged, has slipped out of position or is missing.



Reposition the spring between the pawl and the slot in the drive retainer, making sure that the spring is not on top of the drive retainer hub.





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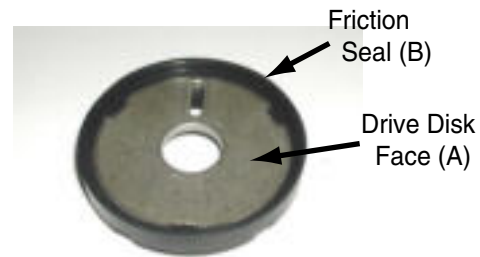
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Step 8) Reduce Friction & Improve Alignment

Pinion dragging against drive disk.

Check for smoothness of the drive disk face (A) and the pinion face. Replace parts as needed.

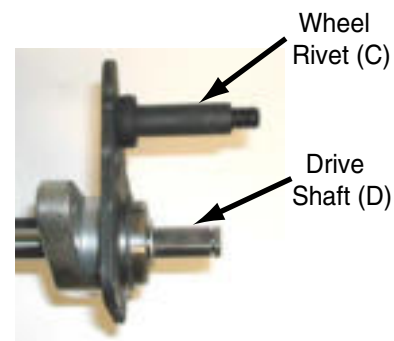


Pinion dragging against friction seal.

Check for any drag and remove any excess flash on friction seal (B) or replace parts.

Seal rubbing inside of wheel.

Wheel rivet (C) is out of alignment with the drive shaft (D). Realign the drive rivet by inserting a steel tube onto the wheel rivet and bending it accordingly to restore proper alignment.



If the wheel is damaged, replace it.

Step 9) Auto Walk Does Not Drive

If the Auto Walk system will not engage when the trigger or bail is pulled:

Friction seal is worn and must be replaced.

Friction seal is not engaging the bearing housing.

Pawl is not assembled correctly.

Control cable needs to be readjusted.

