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Subject: re: swo #80281 Duane E Groce
From: "Aaron Secrist" <asecrist@nautilus.com>
Date: Fri, Feb 19, 2010 8:31 pm
To: <order@techmotionusa.com>
Cc: "Retail Dispatch" <RetailDispatch@nautilus.com>

Hi,

I wanted to forward this information to you regarding the repairs that will need to be performed on the Schwinn ac bike. The technician will need the tools listed below to repair the flywheel if the mechanism cannot be adjusted.

It sounds like the flywheel is grinding, possibly due to excessive chain tension or damage to the flywheel or the magnets could be off center and rubbing the flywheel. I have attached the service manual for reference in case I have misdiagnosed the grinding noise.

Tools:

Smart release adjustment tool

Freewheel removal tool for locking ring on outside of flywheel smart release mechanism.

The adjustment procedure is shown below, if the image doesn't show up, please let me know and I will send it as an attachment.

Basically, the tech will either need to make the adjustment to the smart release mechanism, or will need to rebuild the smart release mechanism on the flywheel (attached as a service bulletin) We will have the rep who is to submit the service request order the smart release tool and the pads for the smart release mechanism, but your technician will need the [freewheel removal tool, aka bmx tool](#) to remove the locking ring on the flywheel. I added a link to parktool.com so you can see what the bmx tool looks like.

<http://www.parktool.com/products/detail.asp?cat=4&item=FR-6>

Please let me know if you have any questions.

Troubleshooting

Problem: Smart Release engages/disengages when pedaling

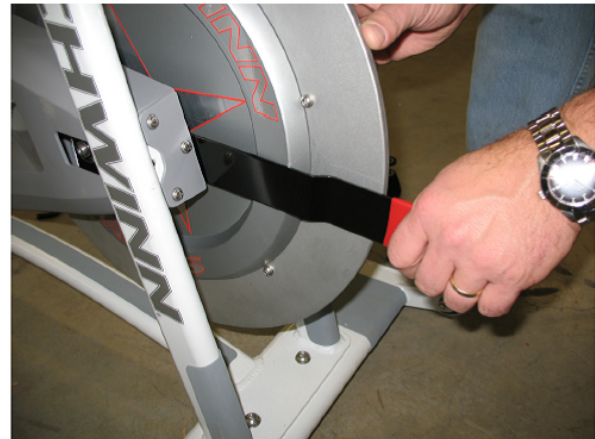
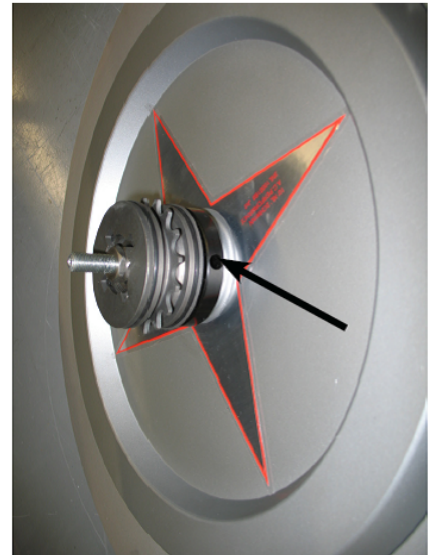
Solution: Adjust Smart Release

Attention: Only a mechanic trained to work on Schwinn® IC bicycles should do this procedure. Make adjustments to the Smart Release™ mechanism only to restore the mechanism to factory specifications. Never overtighten.

1. Begin by riding the bike. This forces the the Smart Release™ mechanism to break free. Pedal up to a moderate speed with little or no resistance on the flywheel while applying enough back pressure to the cranks to release the mechanism. Repeat this several times to ensure that the mechanism is up to operating temperature and to feel the initial setting.
2. From the front of the bike, insert the Smart Release™ adjusting tool into the space between the chain guard and the flywheel.
3. Rotate the flywheel until the 7mm diameter hole in the Smart Release™ adjusting plate is visible from the front of the bike.
4. Tighten the resistance mechanism to prevent the flywheel from rotating.
5. Place a 50 lb. dumbbell or weight on the right side pedal (chain guard side) with the crank in the 9 o'clock position.

Note: When properly adjusted, the Smart Release™ mechanism should break free allowing the crank arm to rotate down under this amount of weight.

6. Insert the Smart Release™ Adjusting Tool so that the bend in the tool corresponds to the shape of the flywheel.
7. Insert the pin of the tool into the hole of the Smart Release™ adjusting plate.
8. Pull the handle of the tool UP toward the top of the flywheel to increase the release pressure (higher breakaway force) and DOWN to decrease the release pressure (lower breakaway force).
9. Ride the bike to test that the factory specified resistance has been achieved.



In addition to adjusting the smart release mechanism and the chain tension and checking the magnets to make sure they aren't rubbing against the flywheel, please apply the touch up paint to the scratches and replace the transport wheels that were sent.
If you have any questions, please reply back to this email.

Thank you!

Aaron Secrist | Nautilus, Inc.
Senior Customer Care Specialist
World Headquarters | Vancouver, WA
Main 1800 605 3369
asecrist@nautilus.com

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Senior Customer Care Specialist
World Headquarters | Vancouver, WA
Main 1800 605 3369
asecrist@nautilus.com

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