

	Troubleshooting Guide: Noise		
Prepared by: IPO Customer Service	Date Prepared: 4/9/2020	Models Affected: S3+ (FC052)	Bulletin Number: NB-2004013

PROBLEM

Use this guide to troubleshoot a noise issue on an S3+ indoor cycle.

POSSIBLE CAUSE

- ❖ [Flywheel axle damaged](#)
- ❖ [Bottom bracket damaged](#)
- ❖ [Flywheel needs to be lubricated](#)

SOLUTION

Flywheel Axle Damaged

Tools required:

- Combination wrench
- 15mm socket wrench
- 6mm Allen wrench
- Phillips screwdriver
- Hammer

Steps:

- a. Remove the right pedal by turning a combination wrench counterclockwise. Remove all bolts from the outer chain guard, and then remove the outer chain guard.



- b. Use a 15mm socket wrench to remove the two flange nuts on each side of the flywheel.



- c. Use a 6mm Allen wrench to loosen the flywheel's adjustment screw, then pull the belt off of the wheel.



- d. Use a Philips screwdriver to remove all screws from the inner chain guard (photo on left) and rotate the inner chain guard (photo on right).



- e. Carefully remove the flywheel from the frame (left), and then use a combination wrench to remove the two nuts (middle) and two spacers (right).



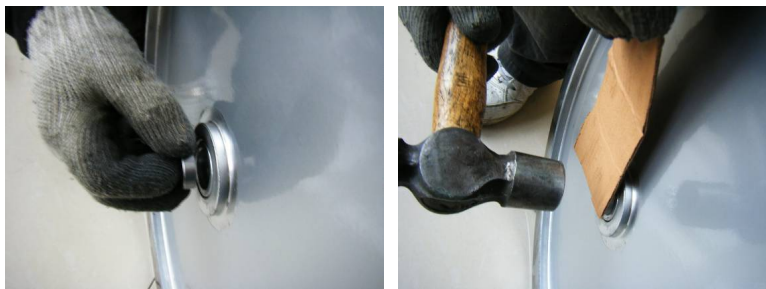
- f. Use a hammer to gently tap the hub axle out of the flywheel from the side without a sprocket



- g. Dismount the hub axle (left), and then use a hammer to gently tap the bearing to remove it from the hub (right).



- h. Install a new hub bearing. Cover the bearing with a protective material, then gently tap the bearing with a hammer.



- i. Install a new hub axle and then use a hammer to put the new bearing in.



- j. Install spacers and Allen nuts. Note that the spacer at the side of the sprocket is shorter than the other one.



- k. Reverse the instructions to reassemble.

Bottom Bracket Damaged

Tools required:

- Combination wrench
- 22mm crank puller
- 14mm socket wrench
- 15mm socket wrench
- 6mm Allen wrench

Steps:

- Disassemble the left and right pedals using a combination wrench (unscrew the right pedal counterclockwise and left pedal clockwise). Remove all bolts from the outer chain guard, and then remove the outer chain guard.



- Use a 15mm socket wrench to remove two flange nuts on each side of the flywheel.



- Use a 6mm Allen wrench to unscrew the flywheel's adjusting screw and then pull the belt out of the wheel.



- Use a combination wrench to disassemble the two crank caps.



- e. Use a 14mm socket wrench to remove the crank bolt, and then use a 22mm crank puller to remove the crank arm.



- f. Use a socket wrench to loosen and remove the bottom bracket.



- g. Install a new bottom bracket and tighten it with a socket wrench.



- h. Reverse the instructions to reassemble.

Flywheel Needs to Be Lubricated

Smear some lubricant on a dry rag. Use the rag to wipe the flywheel rims (both sides). Turn the flywheel one to two revolutions to make sure the rims are well lubricated.

