

Fan and Cage Replacement

Turbo Trainer

This document explains the steps on to replace the fan and fan cage on a StarTrac Turbo Trainer.

Tools Required

- 3mm Hex Key
- 8mm Hex Key
- 10mm Socket
- 15mm Open End Wrench
- Phillips Head Screw Driver
- Flat Head Screw Driver
- Torque Wrench

Parts Required

- Left Fan: Part Number 718-5460-13
- Right Fan: Part Number 718-5461-13
- Fan Assembly: Part Number 718-5466-20

1. Remove rear shroud cover (1) screw using Phillips screw driver (Fig. 1).
2. Twist the crank cap counter-clockwise until clip slips out of the slot (Fig. 2). Then remove the crank cap.

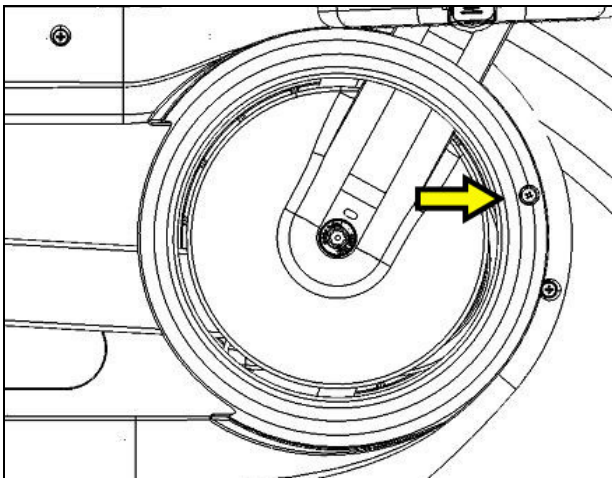


Fig. 1

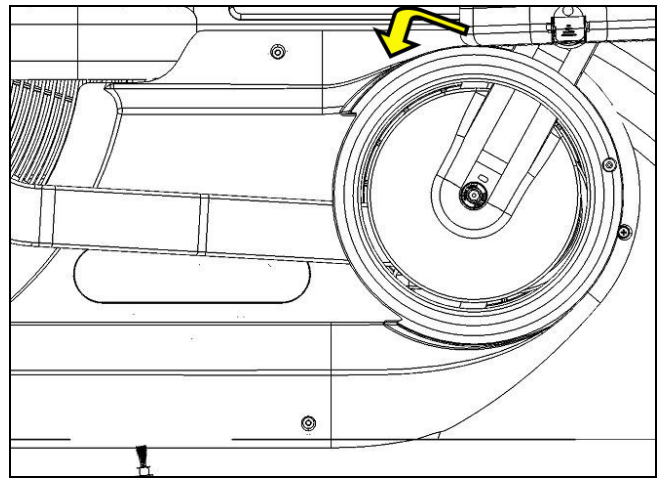


Fig. 2

- Using a Phillips head screw driver, remove (4) screws holding the user left side shroud (Fig. 3). Shrouds will be removed in a later step.

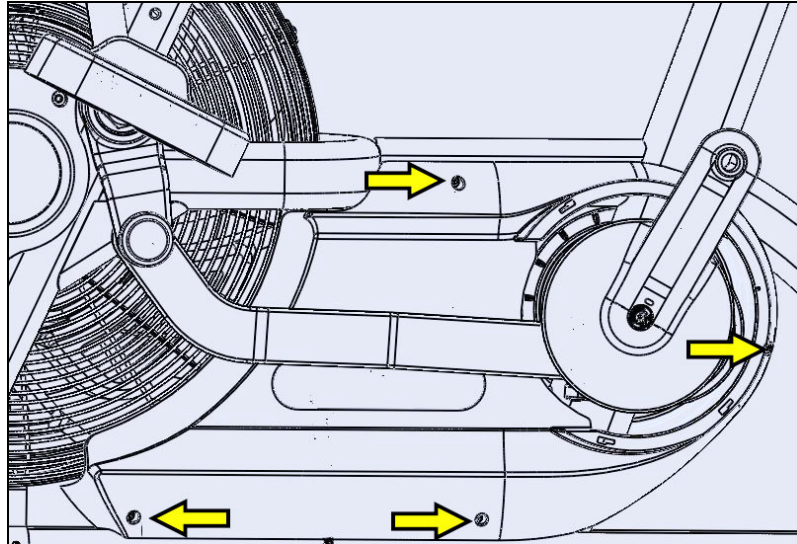


Fig. 3

- Remove (2) screws from the front fan cap using 3mm hex key (Fig. 4).

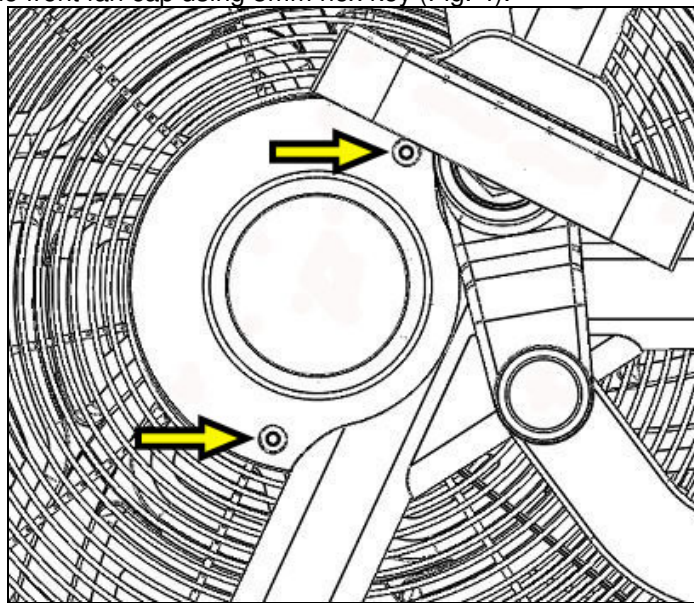


Fig. 4

- Using a Phillips head screw driver, remove (4) screws that are attached from frame to the fan cage (Fig. 5).

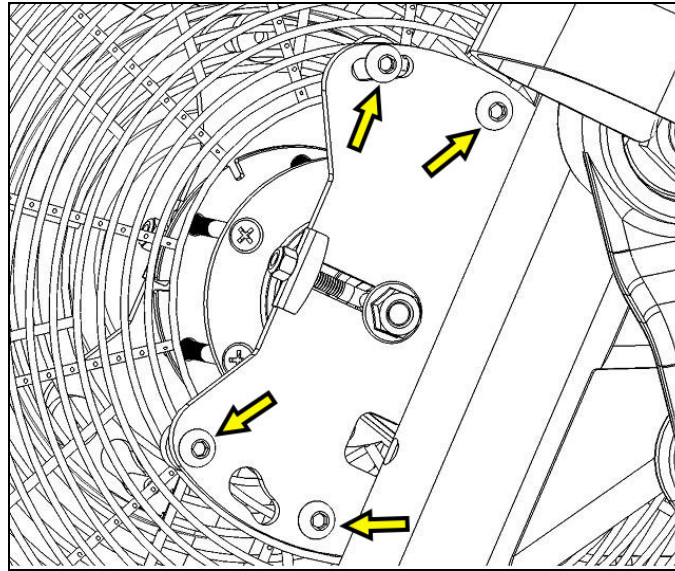


Fig. 5

- Remove the flywheel jam nut from both left and right side using 15mm wrench (Fig. 6).

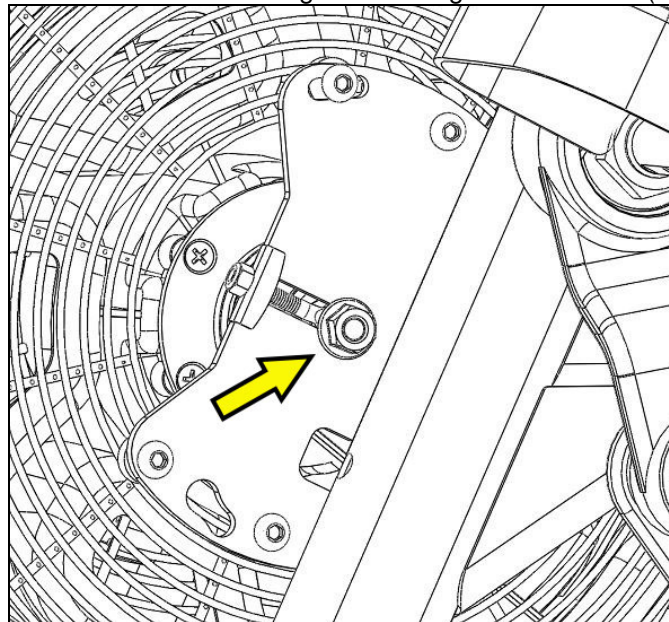


Fig. 6

7. Remove left and right tension nut using 10mm socket (Fig. 7).

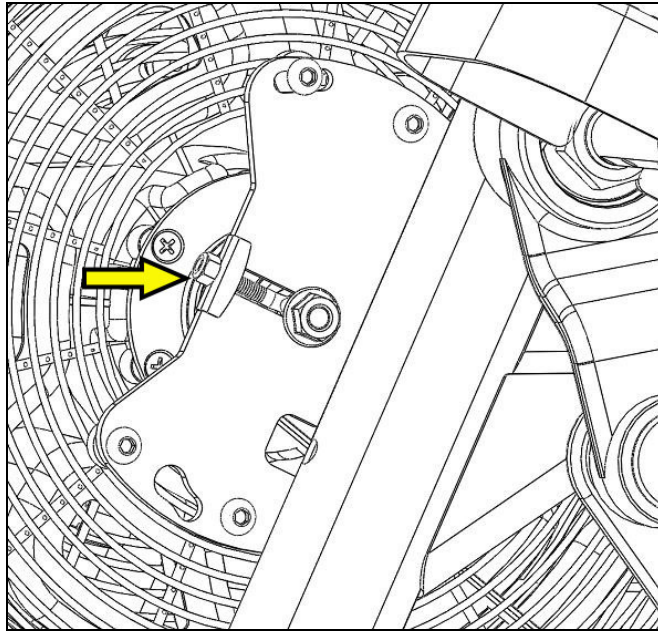


Fig. 7

8. Using a flat head screw driver, remove the cap attached to the link. Using 8mm hex key, remove the bolt going through the bearing into the frame (Fig. 8).

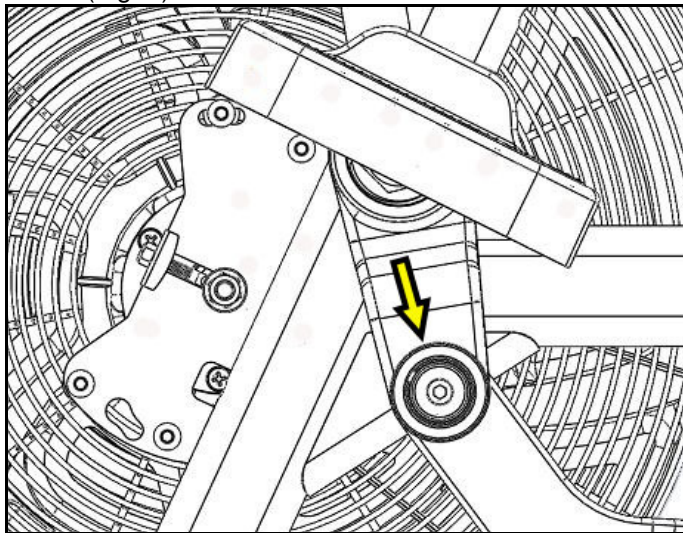


Fig. 8

9. Disconnect the crank link arm from the spherical bearing in the arm using a flat head screw driver. (Fig. 9).
10. Make sure to place the link arm to the back of the unit (Fig. 10).

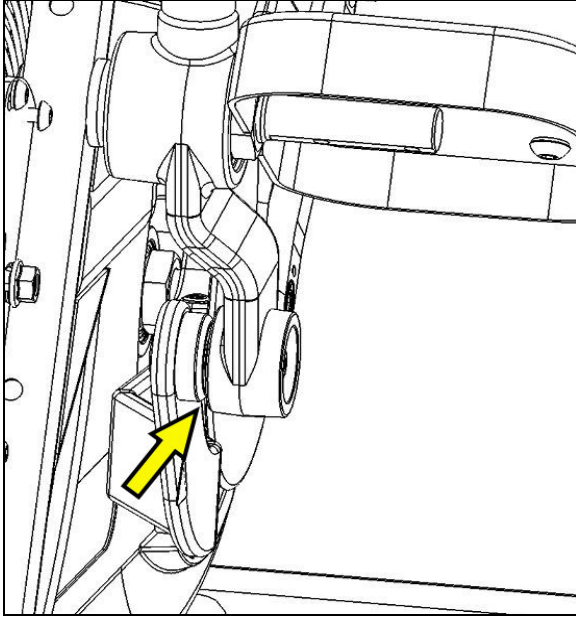


Fig. 9

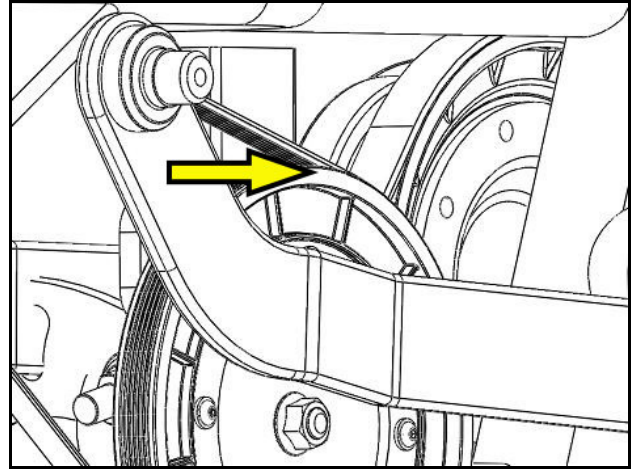


Fig. 10

11. Now the shroud is ready to be removed (Fig. 11).

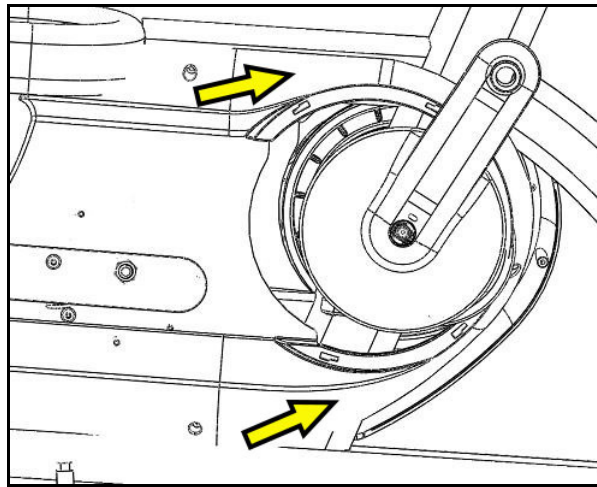


Fig. 11

Note: Will need to reposition the crank arm turning counter clock-wise to loosen the shroud. Walk the shroud off as turning the crank arm.

12. With the shroud removed, walk the belt off the pulley (Fig. 12). This will loosen tension on the idler pulley.

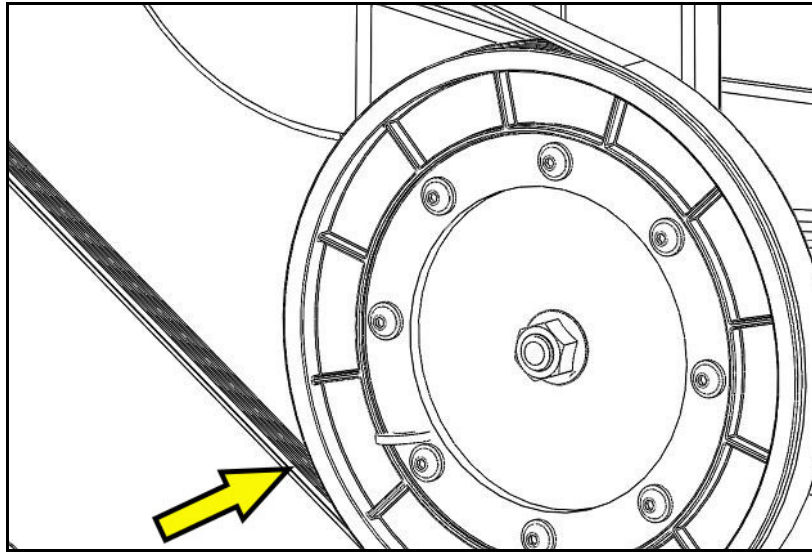


Fig. 12

13. Remove 2 screws on each side holding the fan to the frame (Fig. 13) and pull the fan cage out.

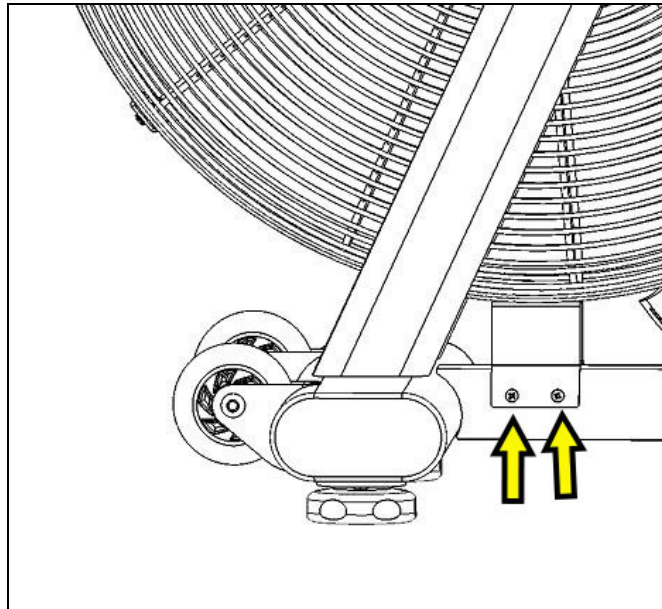


Fig. 13

14. To remove the fan, remove the screws holding the cage together (Fig. 14).

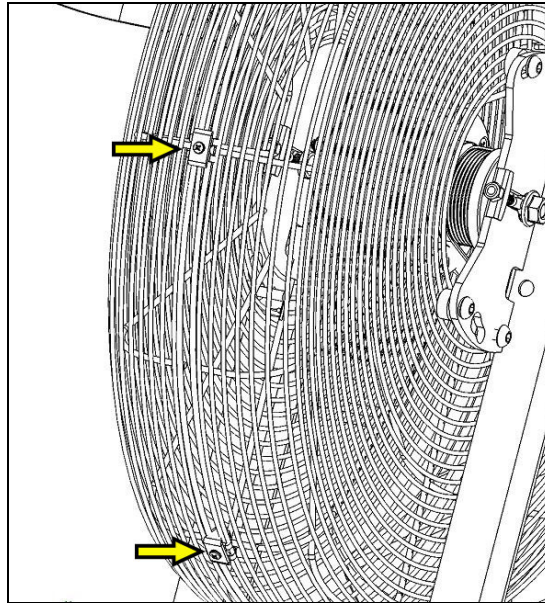


Fig. 14

15. The fan is now exposed. The fan cage or the fan can be replaced (Fig. 15).

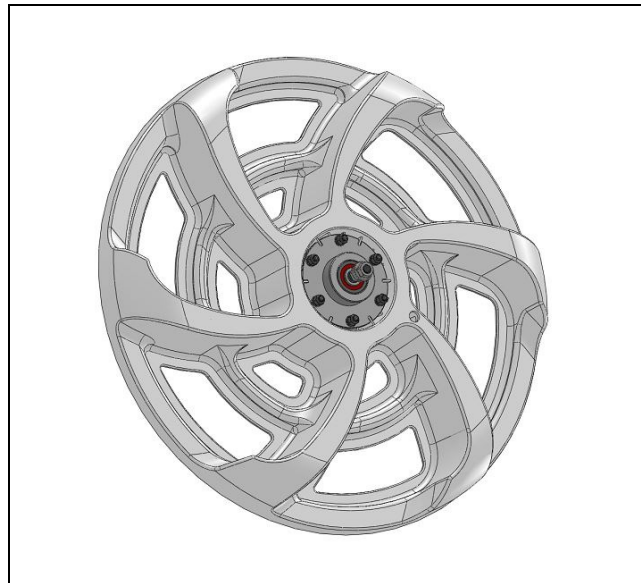


Fig. 15

Reassembling

16. Align fan and tighten the fan cage screws.
17. Align fan with the frame and tighten the screws
18. Walk belt back on to the pulley.
19. Assemble the crank link arm with the spherical bearing.

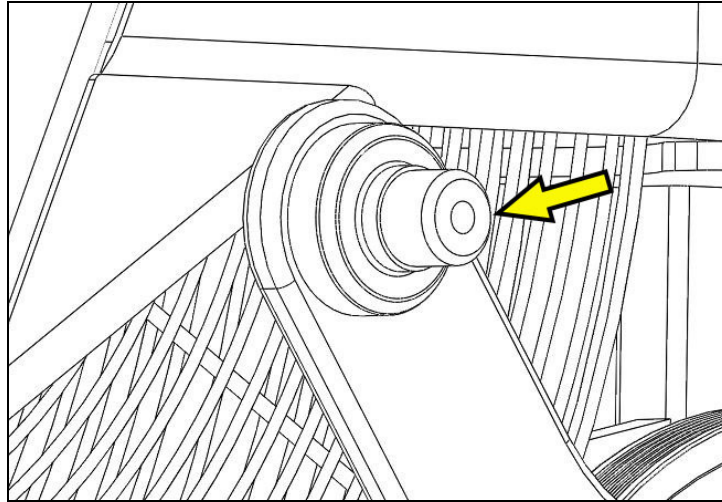


Fig. 16

NOTE: Do not hammer crank link arm back in. Use the bolt to align and draw in the spherical bearing and the arm. Then tighten screw (Fig. 16). Torque bolt to 100-110-Lb-In.

20. Fasten left and right side bolt (step 8)
21. Fasten nut (step 7)
22. Fasten flywheel jam nut (step 6)
23. Fasten screws that are attached from frame to the fan cage (step 5)
24. Fasten fan cap screws (step 4)
25. Reassemble the shrouds
26. Test unit for proper functionality