

Brake Assy Slipping While Pedaling

Bikes (6300,6400,P-UB,P-RB,E-UB,E-RB,S-UB,SRB)

Slipping on Star Trac bikes with a 'Brake Assy' may be caused by a worn Poly-V belt, insufficient belt tension or faulty clutch on the brake assembly. These instructions will help determine the cause of the slipping and offer a solution.

Validate Slipping

1. Pedal on the bike to start it up.
2. Increase the resistance level to 15.
3. Pedal rapidly and with as much force as possible then stop pedaling (to disengage the clutch). Then pedal rapidly and with force again (to engage the clutch). Repeat this at least 5 times.
4. If the pedals slip, proceed to the next test. If the pedals do not slip, then the bike is operational. No further testing is needed

Determining Cause of Slipping

1. Remove the right shroud. Once the shroud is removed, fully reinstall the right side pedal (Fig. 1) as it will be needed for the test. Take note of any dust or debris on or near the belt.



Fig. 1

2. Insert the plastic handle of a screwdriver (or other suitable object) into one of the holes in the Brake Assy flywheel body (Fig. 2) and pinch it in there by pushing the down on the pedal.

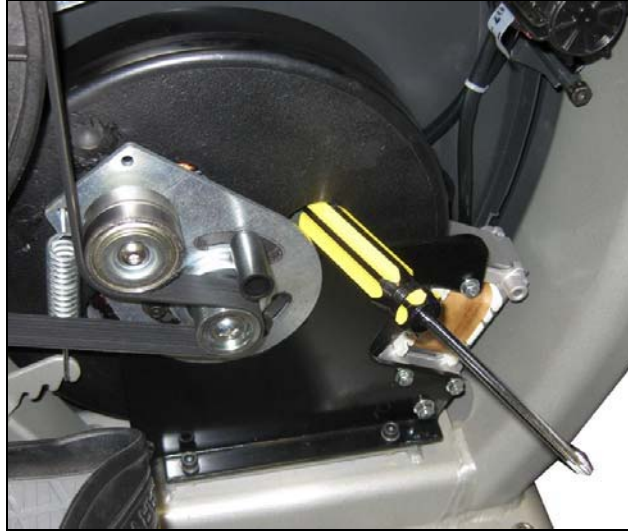


Fig. 2

3. Place a small piece of tape on the end of the flywheel pulley (Fig. 3) or mark the end of the pulley with a marker.

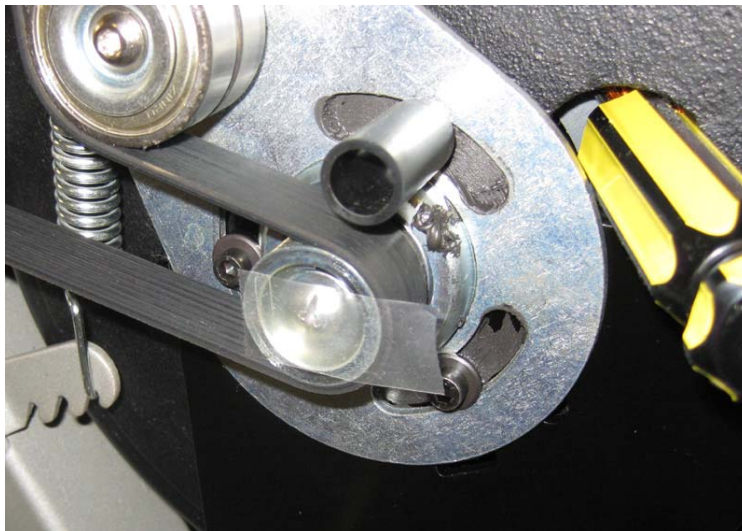


Fig. 3

4. Place the pedal in a horizontal position, with the right side pedal forward (Fig. 4).

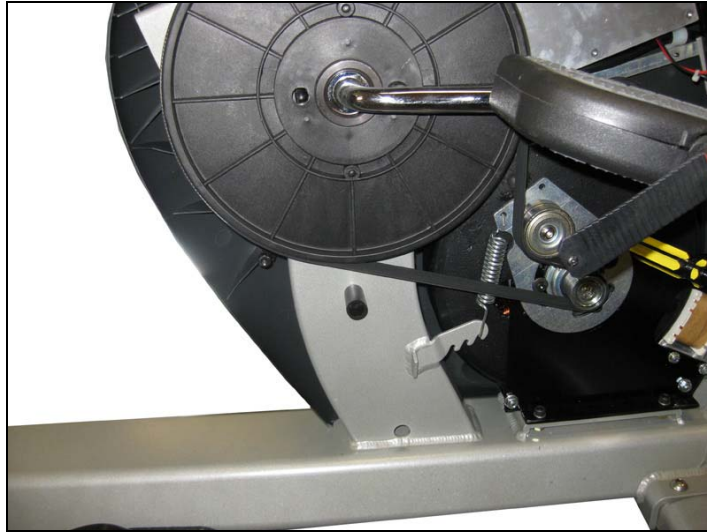


Fig. 4

5. While watching the small pulley, stand on the pedals and push the right pedal down until the pedals move. Observe if the small pulley is turning with the belt or if the pulley is not moving and the belt is slipping on the pulley.



Fig. 5

- If the belt is slipping on the pulley, check the ribbed side of the belt carefully for wear, dust or broken ribs. Replace belt if necessary.(Fig. 6)
- If the belt is in good condition, there may not be enough tension on the belt. Move the end of the tension spring to the next notch on the spring bracket (Fig. 7) and repeat the test.
- If the pulley spins while the flywheel is locked (indicated by the tape changing positions or the pen mark having moved in Fig. 8), then replace the brake assembly.



Fig. 6



Fig. 7



Fig. 8

6. Once finished, remove the right pedal, reinstall right shroud, reinstall the right pedal and test unit for proper function.