

COMMON SERVICE CALLS

THE BALL GOES PART WAY UP AND STOPS:

If the ball is spinning when it stops, it's slipping on the uprails. If it is more or less hovering there, the belt is slipping on the ball.

BALL SPINNING

1. Up rail covers are slick and need to be replaced.
2. Up rail covers are oil soaked and need to be cleaned.
3. If Lifelong Rocket Rails are being used, they are not activated enough and aren't soaking the oil up fast enough. Clean with acetone and/or reactivate them. Activating the Rocket Rails is essential. They have particles molded in them that soak up the oil keeping them dry. To expose the particles they need to be scraped before installation. The more they're scraped the more particles will show and the more oil they will soak up. To activate them enough place each section in a vise and use a paint scraper or expose the particles with a wire wheel on the bench grinder.
4. Insufficient downward pressure on the ball lift. Check spring tension.
5. Bad shock absorber. The shock could be too stiff coming down which will counter-act the downward spring tension not allowing enough pressure against the ball.
6. Too tight carpet drive belt. The replacement carpet drive belt for the Humpback is a PBL sized one (114"). If a new carpet drive belt is used that is sized for kickers (112"), until it stretches it will pull up on the clutches preventing the lift from lowering with enough pressure.
7. Insufficient spring tension on the upper pulley spring. Tighten to between 4 and 4 ¼ inches.

BALL HOVERING

1. Check items 4-7 in the ball spinning section

I CAN'T GET MY 1/8 INCH CLEARANCE OVER THE BALL

1. If need be cut the rubber bumper enough to lower the lift more. Cut it enough so that you have some thread adjustment left. A new bumper cut half way is about right if the lower support is adjusted properly.
2. If the ball will not drop in under the lift unless the clearance between the ball and belt is more than 1/8 inch, the rubber lift arm may be shimmed too low. The rubber should be even with the edge of the ring. If it's too low the ball will drop down onto it from the door ring and prevent you from lowering the lift enough while still allowing the ball to enter the exit.
3. Check the shock absorber shaft. If the shaft is screwed too far up into the plate the shock will open to its fullest length before the lift can lower enough.

THE BELT SKIPS OVER THE BALL WITHOUT PICKING IT UP

- 1.** Check the height of the ball lift and check the clearance between the ball and the belt. Refer to the section "adjusting the angle of your ball lift".
- 2.** Improper downward spring tension. Use the associated hardware that came with the Humpback kit. Needing more tension than what is described in the install manual is an indication of something else wrong.
- 3.** Ball may not be centering all the way
- 4.** The bolt on the rear of the lift arm or the front tab is broken and the lift arm is flexing.
- 5.** The shock absorber is sticking, counter-acting the downward spring tension.
- 6.** The shock absorber is too stiff and the lift doesn't come down with enough pressure to pick up the next ball.
- 7.** The carpet drive belts are too tight counter-acting the downward spring tension.