

Regular service should always include verifying that all safety devices on a hoist are operational. This does not always require removing each and every part for individual inspection, depending upon usage and environmental conditions. This newsletter covers individual parts inspections that must be carried out during extensive service.

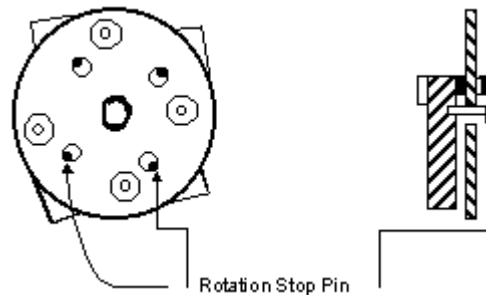
Overspeed flywheels are used in all Power Climber hoists. The full inspection procedure for this and all other parts in a Power Climber hoist is covered within the factory service school course. This article will be a summary of that information.

Flywheels are located within the safety compartments of the individual hoists that they were made for. Power Climber makes several different flywheels for different hoists. As a rule they are not interchangeable from one model to another. Consult your parts manual for the correct flywheel for each hoist.

The safety compartment is sealed with a gasket to prevent water and debris from contaminating this area. Inspect the gasket and assure that it is in good condition, replace if defects are found. Rust on a flywheel is a main reason why flywheels are changed out. This damage can be minimized with a good gasket in place.

Some safety compartments that enclose flywheels use a plexiglass window for operator inspection. As you service these hoists, you must insure that the window is clean and can be seen through. Sometimes the windows could loosen and allow moisture to enter the safety compartment. Make sure that the window is intact and secure to prevent contamination.

Make sure that the flywheel springs are secure, not damaged, rusted or stretched. If the silicone at the end of the spring dries up or is missing, it can be replaced with a tiny dab of new silicone. Apply the silicone to the end of each spring where it attaches to the pin, connecting it atop the flywheel weight.



Make sure that the weights are securely fastened to the flywheel. The rotation of the weights should be stopped by their attached stop pins. Since the stop pins could loosen over time make sure that they are secure and not damaged. If this is the case, you will need to replace the flywheel.

When the weights are fully extended, make sure that they can trip the actuation lever inside of the safety compartment.

Inside of the safety compartment you will find the actuation lever, which is also known as the trip trigger in some hoists. Make sure that this lever rotates easily. It should be spring loaded and operate quickly.

There are no replaceable parts on a flywheel. The best prevention against rust on this part is to insure that the gasket on the safety compartment is in good condition. Further protection against damage to the flywheel has to do with proper handling during maintenance.

### Did You Know?

- Some Power Climber flywheels rotate clockwise and some rotate counter clockwise.
- Some Power Climber flywheels are color coded.

### Tips and Tricks

- When removing a flywheel from the overspeed pulley shaft, **ALWAYS USE A SOCKET & RATCHET, NEVER A BOX OR OPEN END.** This should help keep damage to the springs down.
- If the nut holding down the flywheel is hard to remove, wedge a flat blade screwdriver between the weights and the socket. This will hold the flywheel in place as you loosen the nut. Don't slip with the screwdriver or you will damage the springs.
- When servicing a hoist and you are removing the flywheel, store the flywheel separate from all the other parts. This will minimize other things on the workbench from rolling onto or being accidentally placed onto the springs.
- Just like eyeglasses are not stored lens side down, flywheels should not be stored spring side down.

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