

PB-480BLK

Turbocat Power Brush

The Turbocat is driven by a turbine rather than electricity and has an agitator which shakes the carpet to loosen dirt making vacuuming easier and more efficient.

- Automatic pile height adjustment
- System Performance Indicator-- slows the vacuum down when airflow is lost which indicates that dirt is not being picked up.



Instruction For Turbine Powerhead

Attaching the Turbine Powerhead: To attach your metal wand, simply twist into Powerhead elbow until it fits snugly. The built-in locking mechanism will prevent the wand from coming loose from your Powerhead while in use. To detach wand, use your hand to depress the tab on the side of the elbow and twist wand free. (See Fig. 1).

The wand can be locked in an upright position by pushing it forward until the lock is engaged (See Fig. 2). This locked position is convenient for storage and for lifting the Powerhead. To release wand from the vertical locked position, gently place foot on Powerhead, grasp wand and pull back firmly.



Operating Procedures

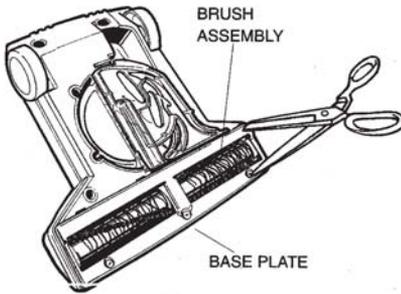
Your Turbine Powerhead has no “on/off” switch. Whenever it is attached to an operating vacuum system, it will be running. No adjustments to the tool are necessary for different types of carpeting.

To ensure maximum efficiency of the Turbine Powerhead, make sure that any filters, bags, and cleaning hoses in your vacuum system are clean and free of blockage.

Cleaning the Brush Assembly

Thread, string, carpet fiber, fuzz, and pet hair occasionally become wound around the brush assembly. These items should be routinely removed to keep the brush assembly clean and to maintain efficiency.

FIG. 3



1. **Disconnect the powerhead from the hose and wands. Be sure parts have stopped spinning before working on the turbine powerhead.**
2. Turn the powerhead over (Fig.3).
3. Strings and other entangled items can be removed by unwinding them by hand or carefully with scissors.

Cleaning the Intake Nozzle

If the turbine nozzle becomes obstructed:

1. Turn off the vacuum system and disconnect the powerhead from the wand.
2. Turn the powerhead over and remove the clear belt cover by first rotating the two latches counterclockwise until they align with the openings in the belt cover. Lift the belt cover out from under the base plate (Fig. 4).
3. Remove debris from the intake and turbine. Rotate the brush roller to ensure the system is clear. Make sure the red seal on the belt cover and mating surfaces are free from dirt particles before reassembling. Check that the belt teeth are engaged with the turbine drive shaft sprocket. Check belt condition and position on sprocket and on brush roller.
4. **Reassemble the belt cover to the unit:** Insert the front of the belt cover under the base plate edge and press belt cover onto housing. Rotate the two latches clockwise until they lock into place. **IMPORTANT: Check that a proper seal is made. Unit performance is dependent on a proper seal.**

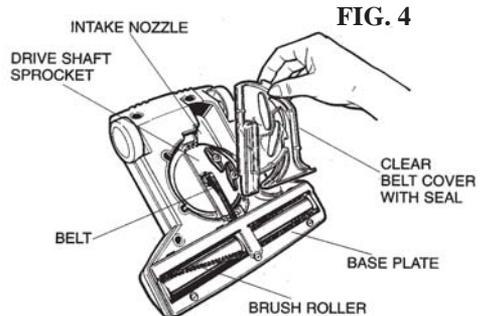


FIG. 4

Replacing the Turbine Belt and Cleaning the Needle Bearing

The replacement belt must be installed correctly to ensure optimum performance. The turbine belt twists 90° to the right as shown in Fig.5A.

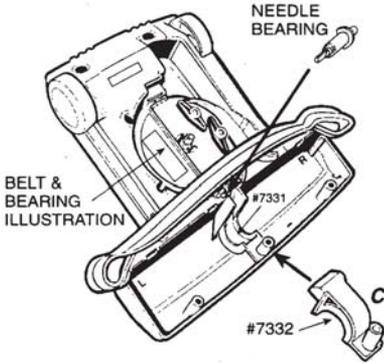
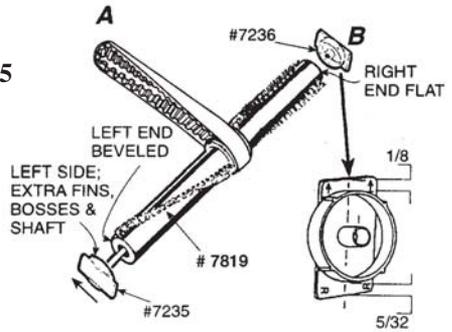


FIG. 5



Belt (A)

- Belt should twist 90° to the right
- see illustration on housing

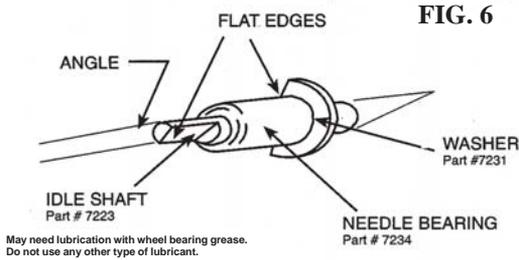
Belt Shrouds (C)

- Upper and Lower Shrouds
- Prevents belt contamination
- Designed to fit around sprocket and protect the drive belt.

Shaft Support (B)

- Shaft Support is 1/32" off center
- When installing new belt, **arrows** on both shaft supports must point to **rear wheels**.
- Left & Right positions are marked on the shaft supports and in the housing.

1. Follow instructions 1 & 2 under cleaning the intake nozzle on pg. 3.
2. Remove the three screws holding the metal baseplate, pull the base plate off, and remove the lower belt shroud. Then, pull the bumper up (Fig. 5).
3. Removing the brush roller and shaft supports--it is important to reinsert the shaft supports in the correct direction. There is an arrow on each shaft support that points to the back of the housing when inserted correctly. To easily identify the correct position for reinsertion, mark the top of the shaft supports with a permanent marker or nail polish. Pull the brush roller out--the shaft supports will come with it.
4. Slide the belt off the turbine sprocket and off the brush roller.
5. **Optional:** Remove the needle bearing and clear any dust, hair, or debris from the needle bearing cavity. To reinsert needle bearing, see illustration on next page.



The needle bearing sits at an angle. The flat side of the washer goes to the rear. The flat side of the idler shaft goes to the front. Be sure the needle bearing is reinserted as shown to ensure proper operation (Fig. 6).

6. Place new belt on turbine sprocket and slide over brush roller. Be sure belt is properly twisted to the right as shown in the illustration (Fig. 5A).
7. Place brush roller and shaft supports back into housing. Push bumper back onto housing (Fig. 5B).
8. Place metal base plate onto housing and reinsert three screws.

TROUBLESHOOTING TURBINE POWERHEADS

CAUTION

Moving parts--disconnect from vacuum system before servicing unit.

If any of these problems occur:

- | | |
|-------------------------------|--------------------------|
| 1. Turbine runs slow | 3. Brush bounces in use |
| 2. Brush makes knocking noise | 4. Brush is hard to push |

Then, follow these steps:

- | | |
|---|---------|
| 1. Check bottom plate | Pg. 3-4 |
| 2. Check belt and tension | Pg. 4-5 |
| 3. Check beater brush | Pg. 3 |
| 4. Check all intake areas for obstructions and brush rotation direction | Pg. 3 |

If problem persists, check central vacuum cleaner system:

Non-Bag Model

1. Check dirt receptacle
2. Check guard screen
3. Check all filter screens
4. Check hoses for air leaks or obstructions

Bag Model

1. Check paper bag
2. Check cloth bag
3. Check air filters
4. Check hoses for air leaks or obstructions