

When to sharpen?

Your reel mower is designed to give many years of service with a minimal amount of maintenance. Sharp blades are essential to efficient mower operation and to optimal lawn health. There are many factors that determine how often you need to sharpen your reel mower, including the size and condition of the lawn, proper storage and use of the mower, especially taking care to avoid mowing over sticks, stones or other lawn debris. When your mower is sharp it will be easy to push and will leave a clean cut straight across the blades of grass. When it starts to become dull, you may notice that it is becoming more difficult to push and the ends of the grass blades will start to be a little ragged. For best results, sharpen the blades before they become extremely dull..

Important Safety Tips

1. Choose a stable work surface of a comfortable height, that is well-lighted and free of debris.
2. Wear heavy leather gloves and keep fingers away from blades at all times.
3. Keep children out of work area and away from mower.
4. Wear protective eye gear when using power tools.
5. Secure mower to work surface when using power tools.
6. Be sure that blades have stopped moving before removing power tool adapter, applying compound or touching blades.
7. Mascot, Inc. is not responsible for any injuries incurred while using this kit.

Sharpening Kit for all Mascot Push Silent Reel and Mascot Gang Reel Mowers

Also works with most push reel mowers, including Agri-Fab, Silent Scott, Sears Silent Reel and Smith & Hawkins Model # 50193-2354
Gang reel mowers:
Agri-Fab and ProMow

Kit contains:

Lapping compound (80 grit)
Applicator brush
Instructions
Snap ring pliers

Model # MSK-CH crank handle

Model # MSK -PT power tool adapter

**Read Important Safety Tips on
Back Cover before using this
kit.**



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Hand Crank Instructions

1. Place the mower on a work table, the ground or other solid surface.
2. If sharpening a push mower, start with the mower in a normal mowing position, then push the handle down so that the mower is resting on the upper handle and the roller. If sharpening a gang reel mower, remove the mower head from the gang frame.
3. Remove the hub caps, using a screw driver for plastic hub caps, or an Allen wrench for Agri-Fab gang reel metal hub caps.
4. Remove wheel by removing e-clip and pulling off wheel.
5. Using snap ring pliers included in kit, remove snap ring from pinion gear, then remove the pinion gear. As you remove the pinion gear, be careful not to lose the ratchet pawl, the small flat metal piece that is in the shaft where the pinion gear was.
6. Place crank handle over end of reel shaft and ratchet pawl.
7. Adjust the cutter bar so that the cutter bar blade has light but firm contact with the reel blades across the full width of the bar.
8. Spread a thin layer of lapping compound on reel blades using the brush provided with your kit.
9. Crank the reel blades backwards until the blades rotate relatively freely. Check the reel blades for smooth, even complete grind. Reel blades will be evenly polished when lapping is completed.
10. Replace pinion gear, retaining ring, wheel, e-clip and hub cap.
11. Using an absorbent cloth and a solution of water and household cleaner, thoroughly clean lapping compound residue from the blades.
12. Spray the blades with WD-40.
13. Adjust the cutter bar until it passes the paper test described in your mower owner's manual.

Power Tool Instructions

1. Secure the push mower or gang reel mower head (removed from frame) to the work surface.
2. If sharpening a push mower, start with the mower in a normal mowing position, then push the handle down so that the mower is resting on the upper handle and the roller. secure it to the work table.
3. Remove the hub caps, using a screw driver for plastic hub caps, or an Allen wrench for Agri-Fab gang reel metal hub caps.
4. Remove wheel by removing e-clip and pulling off wheel.
5. Using snap ring pliers, remove snap ring from pinion gear, then remove the pinion gear. As you remove the pinion gear, be careful not to lose the ratchet pawl, the small flat metal piece that is in the shaft where the pinion gear was.
6. Place power tool adapter in the power tool and then over end of reel shaft and ratchet pawl.
7. Set the power tool to turn the reel backwards.
8. Put on protective eye gear.
9. Adjust the cutter bar so that the cutter bar blade has light but firm contact with the reel blades across the full width of the bar.
10. Spread a thin layer of lapping compound on reel blades using the brush provided with your kit.
11. It is important to use a slow speed so avoid flinging the compound off of the blades. Turn the reel blades until they rotate relatively freely. Check the reel blades for smooth, even complete grind. Reel blades will be evenly polished when lapping is completed.
12. Replace pinion gear, retaining ring, wheel, e-clip and hub cap.
13. Using an absorbent cloth and a solution of water and household cleaner, thoroughly clean lapping compound residue from the blades.
14. Spray the blades with WD-40.
15. Adjust the cutter bar until it passes the paper test described in your mower owner's manual.