Operating Instructions

Rotary Blade Inspection

1. Remove rotary blade from the mower and thoroughly clean blade.

2. Inspect the rotary blade for cracks. Do not use any blades with cracks. Properly discard these blades.

3. Inspect the rotary blade for straightness. Bent blades can cause damage to engine and drive mechanisms due to unstable vibrations.

Grind Angle Adjustment

4. Place the rotary blade on the guide plate.
5. Loosen the adjusting knobs to adjust the guide angle.
6. Adjust the guide angle to match the original grind angle on the rotary blade.
7. Be sure only a minimum amount of clearance remains between the guide and the grinding wheel.
8. Tighten the adjusting knobs to secure the guide.

Grind Operation

9. Adjust the top guard so minimum clearance remains between the rotary blade and the guard.
10. Do not stand directly in front of grinding wheel. While grinding the cutting edge, sparks will fly up into the adjustable guard.
11. **ALWAYS WEAR EYE PROTECTION. PUT ON SAFETY GOGGLES!**
12. Do not use this grinder near flammables. Sparks can ignite gasoline or other chemicals.
13. Keep clothing and hands away from the grinding wheel.
14. Turn on the power switch.
15. For rotary blades that rotate counter clockwise, insert the blade from the motor side of the grinder. For blades that rotate clockwise, insert the blade from the other side.
16. Grind the blade from the center to the outside in a smooth, even motion. Repeat until the blade edge is sharp. If the edge turns black, you are moving too slow or you are pressing too hard against the grinding stone.

Balance Operation

17. When booth ends of the rotary blade are sharp, check the balance of the blade.
18. On a flat, level surface, place the center hole of the rotary blade on the balancer. If one end is heavier, re-grind the heavy end until the blade is in balance.
19. Use a hand file to remove any burrs from the bottom of the blade.

Grinding Wheel Installation

1. Unplug the grinder.
2. Inspect the grinding wheel for damage. Do not use any wheel that is cracked or chipped.
3. Use blotters on each side of the wheel that are larger than the diameter of the mounting flanges.
4. Make sure the grinding wheel RPM rating is equal to or greater than the grinder.
5. To avoid excessive vibration and poor alignment, make sure any spacer bushings fit snug to the wheel and motor shaft.
6. Check flanges for damage. Flanges must be flat and of the same diameter.
7. Tighten all set screws on any adapters. If the wheel is mounted to an adapter which is then mounted to the motor shaft, loose set screws may cause vibration.
8. Make sure motor is tight to the motor mount.
9. When installing the new wheel, make note the nut has a left hand thread. Rotate the nut clockwise to loosen and counter clockwise to tighten. Make sure nut is tight but do not overtighten nut or you can crack the wheel.
10. While the machine is unplugged, rotate the wheel to check and see if the wheel spins true. If the wheel does not spin true (or seems to wobble) loosen the nut and rotate the wheel 90° on the motor shaft.
11. Replace all guards. Wear safety goggles during operation and keep hands and clothing away from the wheel.
12. Start the grinder and check for excessive vibration. If necessary, repeat step 11. Once the wheel is mounted correctly, it may be necessary to "dress" the wheel across the grinding surface.