



## IMPORTANT SAFETY REQUIREMENTS FOR AIR GRINDERS



**WARNING:** Under improper conditions of use and wear, air grinders can be dangerous and result in serious injuries, and even death from exploding wheels. The following instructions are important and should be followed explicitly but cannot cover all contingencies. Good judgement is always required.

**CAUTION:** Before placing the tool in operation, the foreman and operator are cautioned to study and FOLLOW all instructions with special emphasis on safety. The foreman and safety director must be acquainted with and follow the requirements of the applicable sections of ANSI B186.1 SAFETY FOR PORTABLE AIR TOOLS ANSI B7.1 SAFETY REQUIREMENTS FOR THE USE, CARE, AND PROTECTION OF ABRASIVE WHEELS. Copies can be obtained from American National Standards Institute, Inc., 1430 Broadway, New York, New York 10018.

1. The grinder is to be operated with an appropriate guard at all times when a grinding wheel is used. Replace a damaged guard. The guard is to be the proper one for the wheel being used. An exception is a cone wheel where the work offers protection. See ANSI B7.1 for other exceptions listed. Serious injuries can result if the tool is used without a guard.
2. Check the wheel for damage before mounting, such as chips or cracks. Handle wheels carefully to avoid dropping or bumping. Protect wheels from extremes of temperature and humidity. Check wheels immediately after any usual occurrence which may damage wheels. Check wheels daily. Refer to latest edition of ANSI B7.1. Damaged wheels can explode.
3. Check the speed printed on the wheel. Printed speed must never be less than the name plate speed of the grinder and the actual speed of the grinder as measured with a tachometer.
4. Be certain that all wheels, flanges, nuts and related equipment are in good shape, the proper ones for the type and size of wheel being used, and are securely fastened. Depressed center wheels of 7" and 9" diameter and cup wheels are to be mounted with 120 in.-lb. or 10 ft.-lb (1.4 KG'M) of torque min. to prevent wheel spin off. Do not over tighten.
5. Remove wrenches: form habit of removing items before tool is turned on.
6. Hold tool under bench or provide other protection when starting up a new wheel, a used wheel which has been remounted, or at the beginning of an operation. Run at operating speed in this protected area for at least one minute before applying work, during which time no one shall stand in front of or in line with the wheel.
7. If the normal sound of the grinder changes, shut it off immediately, remove the wheel, and check speed with tachometer. Tool could be overspeeding.
8. Avoid accidental starting; be sure actuator is off before hooking tool up to air supply.
9. Grinders are to be operated on clean, moisture free air at a pressure not exceeding 90 P.S.I. (6.2 bars) at the tool. The air is to be filtered and oiled. See instructions supplied with this tool for lubrication instruction. If tool has a governor, dirt and rust can cause the governor valve to stick in the open position and cause overspeeding.
10. If tool has governor, daily remove the wheel and check the speed of the grinder. If the speed is higher than the name plate speed, check for excessive air pressure. If air pressure is acceptable, the tool must be repaired by qualified mechanics who work in clean areas, recognize worn parts, and the need of moving parts to be lubricated. Worn governor parts must be replaced.
11. Do not drop the end of the hose on the floor where it will pick up dirt and transport it into the tool.
12. Use safety glasses; protect your eyes. Protect nearby people with appropriate shields.
13. Do not breathe grinding dust. Use approved mask or proper ventilation.
14. Do not wear clothing or articles which can catch on rotating parts.
15. Secure work; use clamps or vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
16. Don't overreach; keep proper footing and balance at all times.
17. Keep work area well lighted and clean; cluttered areas and benches invite accidents.
18. Disconnect tool from air line when not in use, before servicing, and when changing wheels or accessories.
19. Use common sense — remember this is a powerful tool — use with caution.
20. Maintain the tool in good working condition. Keep tools clean for best and safest performance.
21. CAUTION: An accessory not provided or specified by SIOUX TOOLS INC. which is used with this tool may be hazardous.
22. Repair tools at an authorized Sioux Service Center.

**SIOUX  
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