

# Electric Depressed Center Wheel Grinder

**Safety, Operation and Maintenance – Save This Document and Educate All Personnel**

Model	RPM	Wheel Size
<b>40260</b>	11,000	4-1/2"

Wheel Type	Hole	Spindle
Type 27	7/8" Arbor Hole	5/8"-11



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## ⚠ WARNING

Read and understand this tool manual before operating your tool. Follow all safety rules for the protection of operating personnel as well as adjacent areas. For safety information, refer to Code of Federal Regulation – CFR 29 Part 1910, – Safety Requirements and applicable State and Local Regulations.

	Read and understand tool manual before work starts to reduce risk of injury to operator, visitors, and tool.	Practice safety requirements. Work alert, have proper attire, and do not operate tools under the influence of alcohol or drugs.	
	Eye protection must be worn at all times, eye protection to conform to ANSI Z87.1.	Ear protection to be worn when exposure to sound, exceeds the limits of applicable Federal, State or local statutes, ordinances and/or regulations.	
	Respiratory protection to be used when exposed to contaminants that exceed the applicable threshold limit values required by law.	Electric shock hazard. Avoid bodily contact with grounded objects, bodies of water. Do not damage cord set.	

Some dust created by sanding, grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

**Caution:** Hand, wrist and arm injury may result from repetitive work, motion and overexposure to vibration.

**Tool Intent:** Electric Depressed Center Wheel Grinder are used to grind; metal, wood, stone, fiberglass or plastic surfaces.

### GENERAL POWER TOOL SAFETY WARNINGS

**⚠ WARNING** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

#### SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### Work Area safety

1. Keep your work area clean and well lit. Cluttered or dark areas invite accidents.
2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which ignite the dust or fumes.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

#### Electrical Safety

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

#### Personal Safety

1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

(continued on page 2)

2. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust masks, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injury.
3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
4. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

#### Power Tool Use and Care

1. Do not force the power tool. Use the correct power tool for your application. The correct tool will do the job better and safer at the rate for which it was designed.
2. Do not use the power tool if switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tool. Such preventative safety measures reduce the risk of starting the power tool accidentally.
4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

#### Service

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

### SPECIFIC SAFETY RULES

#### Safety Warnings Common for Sanding and Polishing Operations:

1. Hold power tools by insulated gripping surfaces only when performing an operation where the cutting tool may contact hidden wiring or its own cutting accessory cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
2. This power tool is intended to function as a grinder. Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
3. Operations such as grinding are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.
4. Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
5. The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
6. The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.
7. The arbor size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool. Accessories with arbor holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
8. Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.
9. Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
10. Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
11. Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
12. Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
13. Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
14. Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
15. Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
16. Do not operate the power tool near flammable materials. Sparks could ignite these materials.
17. Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

#### Kickback and Related Warnings:

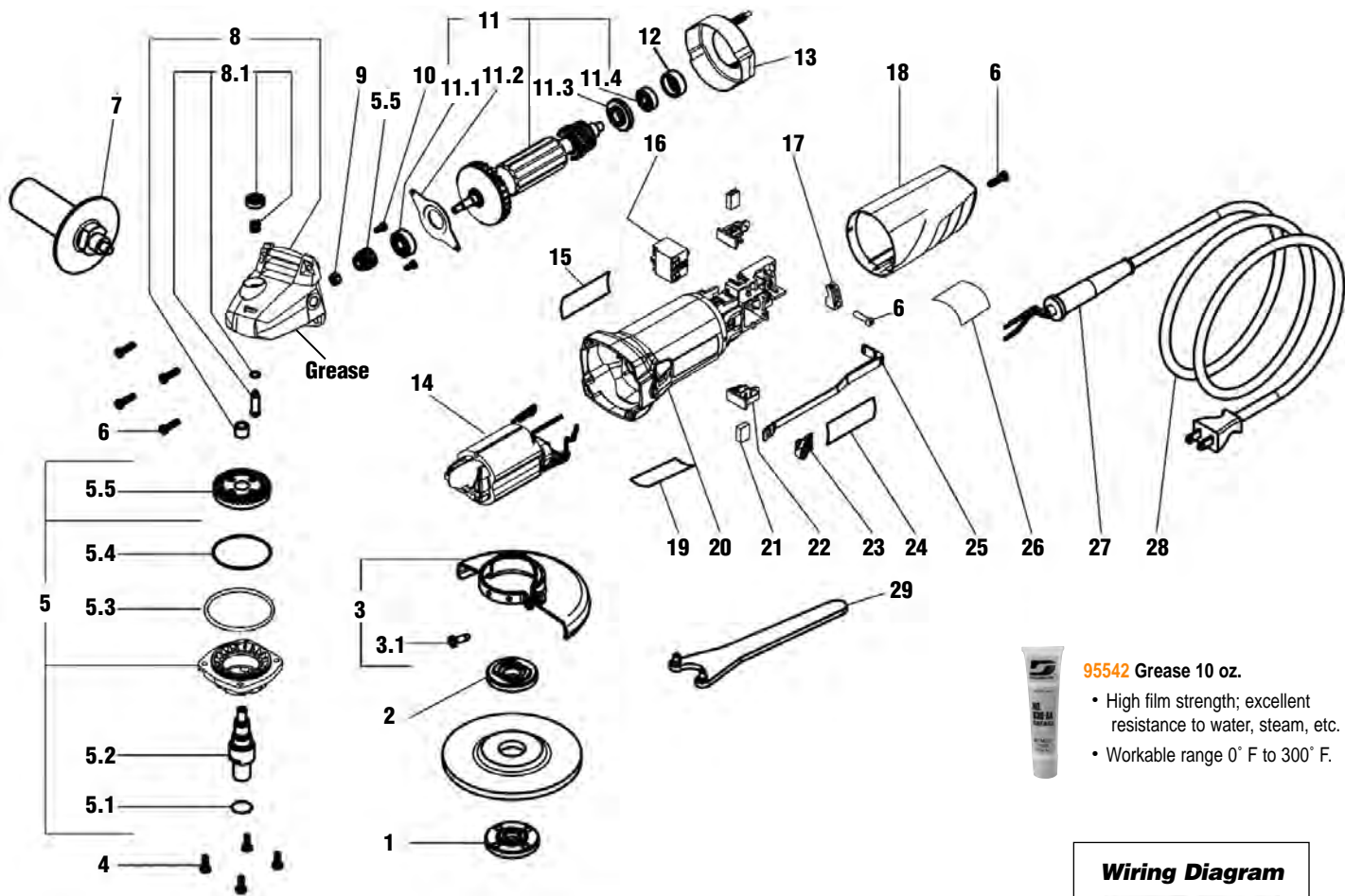
1. Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.
2. Never place your hand near the rotating accessory. Accessory may kickback over your hand.
3. Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
4. Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
5. Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

#### Safety Warnings Specific for Grinding Operations:

1. Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.
2. The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
3. Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel. Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
4. Always use undamaged wheel flanges that are of correct size and shape for your selected wheel. Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
5. Do not use worn down wheels from larger power tools. Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.

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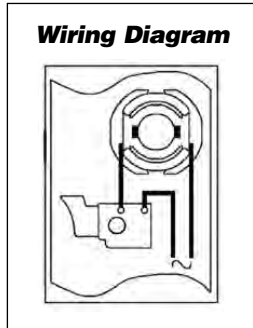
# Model 40260 Complete Assembly



**95542 Grease 10 oz.**

- High film strength; excellent resistance to water, steam, etc.
- Workable range 0° F to 300° F.

Index Key		
No.	Part #	Description
1	40720	Wheel Lock Nut
2	40721	Flange
3	40722	Guard Assembly
3.1	40723	Screw
4	40724	Screw (4)
5	40725	Spindle Assembly
5.1	40726	O-Ring
5.2	40727	Spindle
5.3	40728	Washer
5.4	40729	O-Ring
5.5	40730	Pinion/Gear Set
6	40731	Screw (6)
7	40732	Side Handle
8	40733	Gear Housing Assy.
8.1	40734	Spindle Lock Assy.
9	40735	Nut
10	40736	Screw (2)
11	40737	Armature Assembly
11.1	02649	Bearing
11.2	40738	Bearing Retainer
11.3	40739	Bearing Shield
11.4	01015	Bearing
12	40740	Bearing Seat
13	40741	Fan Baffle
14	40742	Field Coil Assembly
15	40743	Label - Specification
16	40744	Switch
17	40746	Cord Clamp
18	40747	Rear Cover
19	40748	Label - Safety
20	40749	Motor Housing
21	40750	Carbon Brush Set
22	40751	Brush Holder
23	40752	Switch Button
24	40753	Label - Logo
25	40754	Switch Rod
26	40755	Label - Maintenance
27	40756	Cord Sleeve
28	40757	Cord Set
29	40758	Spanner Wrench



Definitions of Label Symbols	
Symbol	Description
A	.....amperes
Hz	.....hertz
□	.....Class II Construction
RPM	.....revolutions per minute
v	.....volts
w	.....watts

Model Number	Motor RPM	Watts	Voltage	Current	Phase	Frequency	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
40260	11,000	680	120 V (AC)	6 amp.	1	60 Hz	4.6 (2.1)	12 (305)	4.25 (108)

## One Year Warranty

Following the reasonable assumption that any inherent defect which might prevail in a product will become apparent to the user within one year from the date of purchase, all equipment of our manufacture is warranted against defects in workmanship and materials under normal use and service. We shall repair or replace at our factory, any equipment or part thereof which shall, within one year after delivery to the original purchaser, indicate upon our examination to have been defective. Our obligation is contingent upon proper use of Dynabrade tools in accordance with factory recommendations, instructions and safety practices. It shall not apply to equipment which has been subject to misuse, negligence, accident or tampering in any way so as to affect its normal performance. Normally wearable parts such as bearings, brushes, gears, etc., are not covered under this warranty.



**Recommended Diameter of Accessories:**

1. The tool can use 4-1/2" Type 27 Wheel accessories.

**Mounting of Type 27 Wheel:**

1. See instructions below.

**Proper Support for the Workplace:**

1. Insure that the workpiece is fixed so that it cannot become a projectile.

**TOOL DESCRIPTION**

**Right Angle Depressed Center Wheel Grinder** – Is a right angle rotary electric hand tool with a 5/8"-11 spindle which includes: a lock-on on/off switch; side handle; a 4-1/2" guard; and is equipped with an 8 ft. cord set.

**ASSEMBLY and OPERATION INSTRUCTIONS**

1. With power source disconnected from tool, securely fasten abrasive/accessory on tool. The rated RPM of the accessory must be equal to or greater than the rated RPM of the tool.
2. Hold tool by the motor housing and the side handle. Do Not hold tool by head/housing assembly. Keep hands away from all moving parts.

**MAINTENANCE and ACCESSORY CARE INSTRUCTIONS**

**Important:** A preventative maintenance program is recommended whenever portable power tools are used.

- Use only genuine Dynabrade replacement parts to insure quality. To order replacement parts, specify **Model #**, **Serial #** and **RPM** of your tool.

**Routine Preventative Maintenance:**

- Mineral spirits are recommended when cleaning. Do not use on electrical components or clean tool or parts with any solvents or oils containing acids, esters, ketones, chlorinated hydrocarbons or nitro carbons. Compressed air may be used to remove dirt from electrical components.
- DO NOT clean or maintain tools with chemicals that have a low flash point (example: WD-40®).
- Tool labels must be kept legible at all times, if not, reorder label(s) and replace. User is responsible for maintaining specification information i.e.: Model #, S/N, and RPM. (See Assembly Breakdown)
- Visually inspect plugs and cords for frays, visible damage and signs of deterioration. Damaged or worn components must be replaced by Dynabrade to avoid a safety hazard.
- **Brush Changing** – Unplug tool, remove rear housing and brushes. Install new brushes, and replace rear housing. Run tool for 20 minutes at free speed to seat brushes. Change brushes every 100 hrs. to ensure proper tool function. After changing brushes it is recommended to replace the right angle gear grease with **95542 Grease**.
- **After maintenance is performed on tool check for excessive tool vibration.**
- **Check for excessive current leakage at 550 volts with a current leakage checker on all screws and the gear case, if the electrical components have been disturbed during repair.**

**Handling and Storage of Tool and Accessories:**

- Store accessories in protective racks or compartments to prevent damage.
- Protect abrasive accessories from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.

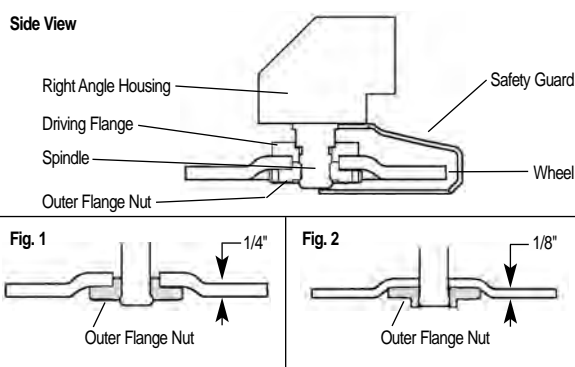
**Wheel Mounting Instructions**

**Type 27 Flanged Wheel (7/8" Dia. Arbor Hole)**

1. With power source disconnected from the tool.
2. Clean spindle and flange mounting surfaces. Inspect for nicks, cuts and sharp edges.
3. Install drive flange with raised boss facing outward. Engage bottom flange slot and spindle flats.
4. Check for flange flatness and runout by rotating spindle and drive flange together.
5. Install Type 27 grinding wheel over spindle thread and over raised boss on flange.
6. **With 1/4" thick wheels & greater**, install outer flange nut with raised boss facing toward abrasive wheel, engage spindle lock and secure flange firmly against wheel. (See fig. 1)
7. **With 1/8" thick wheels & less**, install outer flange nut with raised boss facing away from abrasive wheel, engage spindle lock and secure flange firmly against wheel. (See fig. 2)
8. Check for wheel firmness by holding the spindle and pulling on the edge of the wheel in the tightening direction.

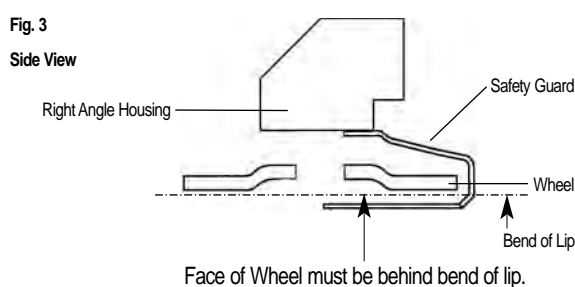
**Caution:** Over tightening the outer flange nut can cause damage to the wheel and/or flanges.

- Use only Dynabrade **40720** Wheel Lock Nut & **40721** Flange.



**Type 27 Hubbed Wheel (5/8"-11 Internal Affixed Flange)**

1. With power source disconnected from the tool.
2. Some TYPE 27 grinding wheels come equipped with a disposable flange affixed to them. For use of this type wheel store both the driving flange and the outer flange nut provided with the tool for future use.
3. Engage spindle lock and thread grinding wheel to tool securely.
4. Visually inspect the grinding surface face relationship to the bend of the lip on the guard.
5. **ONLY USE grinding wheel whose face of the wheel is behind bend of lip on guard. (See fig. 3)**



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**Reference Contact Information**

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