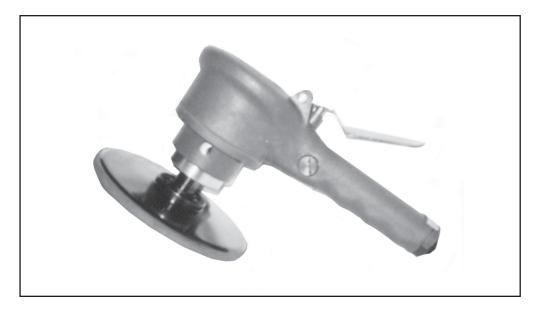
CENTRAL PNEUMATIC® 6" DUAL ACTION AIR SANDER

Model 42966

ASSEMBLY AND OPERATING INSTRUCTIONS





3491 Mission Oaks Blvd., Camarillo, CA 93011 Visit our Web site at http://www.harborfreight.com

TO PREVENT SERIOUS INJURY, READ AND UNDERSTAND ALL WARNINGS AND INSTRUCTIONS BEFORE USE.

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For technical questions and replacement parts, please call 1-800-444-3353.

PRODUCT SPECIFICATIONS

Item	Description		
Orbits Per Minute	10,000		
Orbital Motion	⁵ / ₃₂ " Diameter		
Operating PSI	90 PSI		
Air Consumption	4.5 CFM @ 90 PSI (No Load)		
Pad Thread Size	⁵ / ₁₆ " x 24		
Pad and Sanding Paper Diameter	6"		
Sanding Paper Type	PSA		
Air Inlet Size	1/4" NPT Female		
Additional Features	Dual Action Motion Variable Speed Throttle Lever		
Weight	3.50 Pounds		

UNPACKING

When unpacking, check to make sure all the parts shown on the **Parts List on page 9** are included. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

GENERAL SAFETY RULES

WARNING! READ AND UNDERSTAND ALL INSTRUCTIONS Failure to follow all instructions listed in the following pages may result in electric shock, fire, and/or serious injury. SAVE THESE INSTRUCTIONS

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WORK AREA

- 1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- 2. Do not operate pneumatic tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Pneumatic tools create sparks which may ignite flammables.
- 3. **Keep bystanders, children, and visitors away while operating a pneumatic tool.** Distractions can cause you to lose control. Protect others in the work area from debris such as chips and sparks. Provide barriers or shields as needed.

PERSONAL SAFETY

- 1. Stay alert. Watch what you are doing, and use common sense when operating a pneumatic tool. Do not use a power tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating pneumatic tools may result in serious personal injury.
- 2. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- 3. Avoid accidental starting. Be sure the Throttle Lever is off before connecting to the air supply. Carrying pneumatic tools with your finger on the Throttle Lever, or connecting pneumatic tools to the air supply with the Throttle Lever on, invites accidents.
- 4. **Remove adjusting keys or wrenches before turning on the tool.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- 5. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- 6. Use safety equipment. Always wear ANSI approved safety goggles underneath a full face shield, a dust mask or respirator, and hearing protection.

TOOL USE AND CARE

1. Use clamps or other practical ways to secure and support the workpiece to a stable platform. Holding the work by hand is unstable and may lead to loss of control. Only work on a workpiece that is properly secured.

- 2. **Do not force the tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
- 3. **Do not use the power tool if the Throttle Lever does not turn it on or off.** Any tool that cannot be controlled with the Throttle Lever is dangerous and must be replaced.
- 4. **Disconnect the air hose from the tool before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- 5. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- 6. **Maintain tools with care.** Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
- 7. Check for misalignment or binding of moving parts, breakage of parts, cracking or breakage of the sanding Pad, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- 8. Use only accessories that are recommended by the manufacturer for your **model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.

SERVICE

- 1. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
- 2. When servicing a tool, use only identical replacement parts. Follow instructions in the *"Inspection, Maintenance, And Cleaning"* section of this manual. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of injury.

SPECIFIC SAFETY RULES

1. **Maintain labels and nameplates on the Sander.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

- 2. **CAUTION!** To avoid injury, keep hands and fingers away from the rotating Pad (37). Grip the Sander *firmly* with both hands. If both hands are holding the Sander, your hands and fingers cannot be cut by the rotating Pad or Sanding Paper (not Included).
- 3. Always use Sanding Paper with a 6" diameter. Sanding Paper that does not match the Pad (37) diameter of the Sander will run eccentrically causing loss of control or may fly off the Sander.
- 4. To avoid accidental injury, always wear an ANSI approved safety goggles, full shield, hearing protection, and heavy duty work gloves when operating the Sander.
- 5. **Use clean, dry, regulated, compressed air at 90 PSI.** Do not exceed the recommended 90 PSI. Never use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.
- 6. Always disconnect the Sander from its compressed air supply source, and squeeze the Throttle Lever (11) to release all compressed air in the tool before performing any maintenance.
- 7. Before using the Sander, make sure the Pad (37) is properly attached to the Drive Spindle (35). Make sure the Pad is balanced, and is not cracked or bent.
- 8. **The Pad (37) and Sanding Paper will become hot while sanding.** Allow the Pad and Sanding Paper to completely cool before touching.
- 9. Allow the Pad (37) to rotate up to full speed before feeding it into the workpiece. Do not force the Sanding Paper into the workpiece when sanding. Apply moderate pressure, allowing the Sand Paper to cut without being forced. When turning off the Sander, allow the Pad to spin down and stop on its own. Do not press against the Pad to stop it.
- 10. Industrial applications must follow OSHA requirements.
- 11. MARNING! Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contain chemicals known (to the State of California) 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 or 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. *(California Health & Safety Code 25249.5, et seq.)*

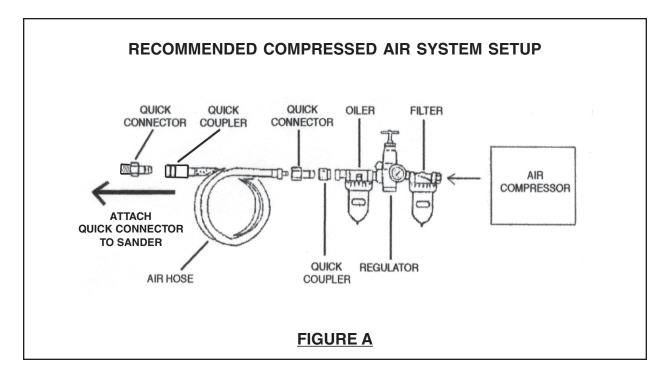
12. **WARNING!** The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

ASSEMBLY AND OPERATING INSTRUCTIONS

NOTE: For additional references to the parts listed in the following pages, refer to the **Assembly Diagram on page 10.**

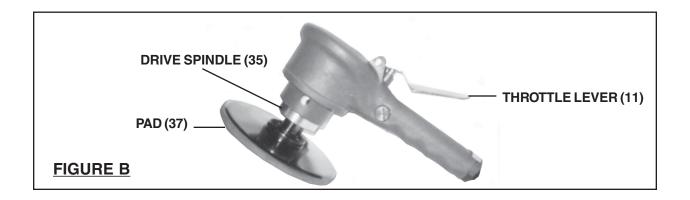
To Attach A Quick Connector:

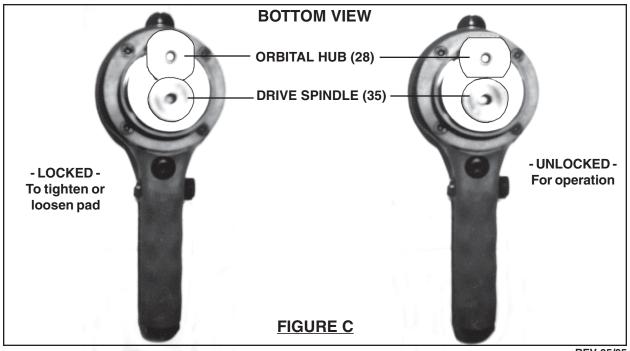
- 1. WARNING! Prior to performing any assembly and/or adjustment procedures, make sure the air supply hose is disconnected from the Sander.
- 2. Prior to use, the Sander requires the attachment of a *Quick Connector* (not included) into its Hose Adapter (2). To do so, wrap approximately 3" of pipe thread sealer tape (not included) around the male threads of a Quick Connector. Then, firmly tighten the Quick Connector into the Hose Adapter. **(See Figure A.)**
- 3. Prior to each use, if an automatic oiler is not included in the air compressor hook up, add two drops of air tool oil (not included) into the Air Inlet fitting of the Sander.



To Attach Sanding Paper And The Pad:

- 1. Ensure that the Pad is **firmly** screwed onto the Drive Spindle (35). The Orbital Hub (28) turns to engage the Drive Spindle (35), allowing the Pad (37) to be threaded on securely. Turn the Orbital Hub (28) back out of the way before use. *If the Orbital Hub is still in the locked position during use, then the Sander will not operate properly.* (See Figure C.)
- The Sander only uses 6" diameter, PSA Stick, (self-sticking) Sanding Paper (not included). Make sure to attach the Sanding Paper <u>firmly</u> to the Pad (37).
 (See Figure B.)





SKU 42966 For technical questions please call 1-800-444-3353

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To Operate The Sander:

- 1. **IMPORTANT:** Before first use, it is recommended to test the Sander on scrap material to determine the cutting capacity of the Sanding Paper.
- Connect the air supply hose to the Sander. Turn on the air compressor (not included), and set its regulator to the recommended 90 PSI for the Sander. (See Figure A.)
- 3. In order to keep the air supply hose out of the way, hang it over your shoulder.
- 4. Grip the Sander firmly with **both** hands. Then squeeze the Throttle Lever (11) and allow the Pad (37) to move to its fullest speed. **NOTE:** The Sander features *variable speed* action. The harder the Throttle Lever is squeezed, the faster the Sander operates. **(See Figure B.)**
- 5. <u>NOTE:</u> If the Sander will not turn properly when it contacts the workpiece, disconnect the air supply and verify that the Orbital Hub (28) is in the unlocked position. (See Figure C and instructions on page 7.)
- 6. Sand the workpiece evenly with gentle, broad, sweeping strokes in a crisscross pattern.
- 7. During the sanding process, it may be necessary to occasionally stop the Sander, disconnect it from its air supply hose, remove the worn Sanding Paper and replace with new Sanding Paper.
- 8. Once the sanding is completed, release pressure on the Throttle Lever (11) to stop the Sander. Turn off the air compressor. Disconnect the Sander from its air supply hose. Then squeeze the Throttle Lever once again to release any remaining air pressure from the tool. (See Figure B.)

INSPECTION, MAINTENANCE, AND CLEANING

- 1. <u>WARNING!</u> <u>Always make sure the Throttle Lever (11) is in its "OFF"</u> position, disconnect the Sander from its compressed air supply, and squeeze the Throttle Lever to release any remaining air pressure from the tool, before performing any inspection, adjustments, maintenance, or cleaning.
- 2. **Before each use,** inspect the general condition of the Sander. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged air hoses, loose, cracked, or bent Pad (37), and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use. **Do not use damaged equipment.**
- Daily: With a soft brush, cloth, or vacuum, remove all dust and debris from the Sander. Then, use a premium quality, lightweight machine oil to lubricate all moving parts *except* the Pad (37).

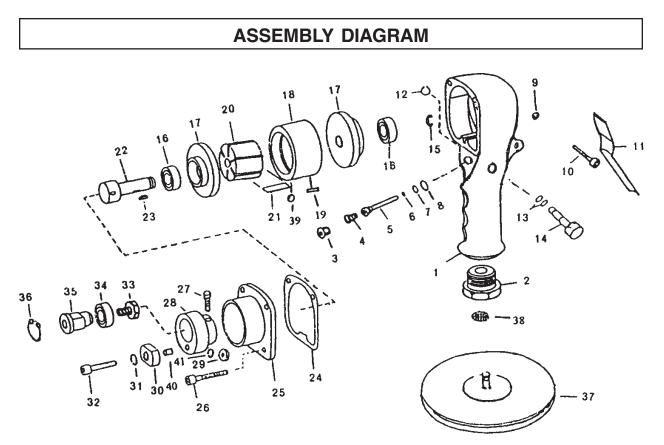
PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST

Part #	Description	Qty.	Part #	Description	Qty.
1	Motor Housing	1	22	Rotor Shaft	1
2	Hose Adapter	1	23	Key	1
3	Valve Cap	1	24	Gasket	1
4	Throttle Valve Spring	1	25	Drive Housing	1
5	Throttle Valve Shaft	1	26	Cap Screw	4
6	O-Ring	1	27	Cap Screw	1
7	O-Ring	1	28	Orbital Hub	1
8	O-Ring	1	29	Hex Nut	1
9	Hex Nut	1	30	Spindle Lock	1
10	Screw	1	31	Spring Washer	1
11	Throttle Lever	1	32	Cap Screw	1
12	Retaining Ring	1	33	Hex Screw	1
13	O-Ring	1	34	Ball Bearing	1
14	Regulator Valve	1	35	Drive Spindle	1
15	Retaining Ring	1	36	Retaining Ring	1
16	Bearing	2	37	Pad	1
17	End Plate	2	38	Inlet Screen	1
18	Cylinder	1	39	O-Ring	1
19	Pin	1	40	Spacer	1
20	Rotor	1	41	Spring Washer	1
21	Rotor Blade	5			

NOTE: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.



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