



Angle Drill Guide

Model 95622

ASSEMBLY AND OPERATING INSTRUCTIONS



Glove and Drill shown in photo not included

Due to continuing improvements, actual product may differ slightly from the product described herein.



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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

Specifications

| | |
|--------------------|--|
| Construction | Thermoplastic Body with Carbon Steel Hardware |
| Base Dimension | 6" Max Width |
| Drill Travel | 8" Maximum |
| Adjustable Angle | - 45° to + 45° |
| Overall Dimensions | 13- ³ / ₄ "H x 4- ³ / ₄ "W x 5- ³ / ₄ "D |

| | |
|------------------|--|
| Included Chuck | HFT 3/8" diameter capacity 3 jaw Chuck |
| Alignment Rods | 10" Long |
| Work Material | 2" Maximum Thickness |
| Scale Increments | 5° |
| Net Weight | 2.25 Lbs. |

Save This Manual

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

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lit. Do not use electrically powered tools in the presence of flammable gases or liquids.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.

7. **Use eye and ear protection.** Always wear ANSI-approved impact safety goggles. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI-approved dust mask or respirator when working around metal, wood, and chemical dusts and mists.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
9. **Maintain tools with care.** Keep tools maintained and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have them repaired by an authorized technician. The handles must be kept clean, dry, and free from oil and grease at all times.
10. **Read and follow all instructions and safety warnings provided by the owner's manual of the drill you are using.**
11. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
12. **Take caution as some woods contain preservatives such as copper chromium arsenate (CCA) which can be toxic.** When cutting these materials extra care should be taken to avoid inhalation and minimize skin contact.
13. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician. Do not use the tool if any switch does not turn On and Off properly.
14. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.
15. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
16. **Maintenance.** For your safety, service and maintenance should be performed regularly by a qualified technician.

17. **WARNING:** 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
- (California Health & Safety Code 25249.5, *et seq.*)
18. **WARNING:** The brass components of this product contain lead, a chemical known to the State of California to cause birth defects (or other reproductive harm). (California Health & Safety code 25249.5, *et seq.*)

WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Unpacking

When unpacking, check to make sure the parts listed on page 8 are included.

NOTE: *Drill shown in photo at right is not included.*

If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual.



Operation

CAUTION: When working with this Angle Drill Guide, be very careful to avoid pinching injury caused by the sliding action of the Chuck Frame (3) on the Guide Rods (2). To prevent this, wear heavy work gloves when working with this tool.

Installing the Drill Bit

1. Insert the selected drill bit (not included) into the Drill Chuck (10).
2. Tighten the Drill Chuck on the drill bit by rotating the ring clockwise.

Attaching the Drill

1. Open the chuck of your drill (not included) and close it on the Spindle (14).
2. Tighten securely.

Drilling a hole

1. After installing a drill bit in the Angle Drill Guide and attaching the drill, position the tool on your work material.
2. Align the tip of the drill bit with the desired location on the work material.
3. To prevent the Base (6) from moving on the work material during drilling, you can use the Anchoring Pins (5). Press the Anchoring Pins (5) downward through the Base into the work material. This will hold the Base in position.
4. Squeeze the trigger of the drill to start drill bit rotation. Keep your hand away from the Base (6).
5. Steadily and gently press the drill into the work material. The Chuck Frame will slide along the Guide Rods as the hole is drilled.
6. When the hole has been drilled, steadily retract the drill and release the trigger.
7. Retract the Anchoring Pins by pulling up on the pin heads. Remove the Drill Guide from the work material.



Drilling a hole at an angle

Drilling a hole at an angle

1. Loosen the Locking Knobs (7).
2. Rotate the Guide Rods (2) and Chuck Frame (3) relative to the Base (6) until the Guide Rods are at the desired angle to the Base. The Guide Rods may be rotated up to 45° either way.
3. Tighten the Locking Knobs to secure the angle.
4. You can check the angle using a protractor. You may also want to drill a test hole in scrap material to check the angle.
5. Position the Drilling tool assembly on the work piece and align the point of the drill bit with the desired location on the work piece. Use the Anchoring Pins (5) to secure the Base (6), as described above.
6. Drill the hole as described in the section above. When work is complete, remove the Drill Guide from the work surface, as described above.

Setting the Depth Stopper

If desired, you can limit the depth the installed drill bit will go into the work material by using the Depth Stopper (9).

1. Set the Depth Stopper (9) by moving your drill and drill bit (not included) along the Guide Rods (2) until the drill bit has protruded below the Base (6) to the desired depth.
2. While in this position, slide the Depth Stopper against the Chuck Frame (3) and tighten the screw in the Depth Stopper by turning it clockwise.
3. Retract the drill and drill bit. Position the drill with attached Angle Drill Guide on the work material. Drill the hole. The Depth Stopper will stop the drilling operation at the preset depth.
4. To reset the Depth Stopper, turn the thumbscrew on Depth Stopper counterclockwise, allowing Depth Stopper to move freely on the Guide Rod.

Using the Frame Stopper

To prevent the Chuck Frame from moving, you can use the Frame Stopper (12) thumb screw.

1. Set the drill bit depth as desired.
2. Tighten the Frame Stopper (12) by turning clockwise.
3. Operate drill as desired. The Chuck Frame will not slide along the Guide Rods (2).
4. The Frame Stopper is also useful when the tool is being transported to prevent the Chuck Frame from sliding in an uncontrolled fashion along the Guide Rods.

Drilling a rod or tube.

The Base (6) has a “V” shaped depression in line with the Drill Chuck (10). This depression is ideal for holding a rod or tube for drilling.

1. Place the rod or tube in the depression in the base. Clamp in place if desired.
2. Insert a drill bit in the Drill Chuck (10) to make any needed adjustments to the position of the Chuck Frame Frame Stopper or Depth Stopper.
3. Drill the work material as described on page 5.

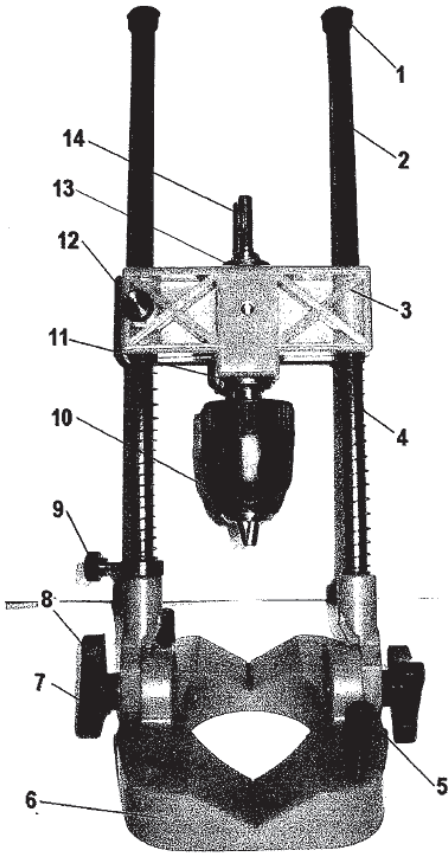
Maintenance

1. Keep the Angle Drill Guide clean and dry. Prevent exposure to water or corrosive materials, which may rust or damage the tool.
2. To keep the tool working smoothly, occasionally apply a light grease to Guide Rods.
3. To prevent rust, occasionally apply a light oil to all threads and metal surfaces of the tool.

Storage

1. When not in use, store the Angle Drill Guide in a safe area out of reach of children and unauthorized persons.
2. If the tool gets covered with sawdust, metal filings or shavings from drilling, brush the tool clean and apply light oil before storage.
3. Store the tool in a clean dry place to prevent rust damage.

Assembly Diagram and Parts List



| Part # | Description | QTY. |
|--------|---------------|------|
| 1 | Rubber Plug | 2 |
| 2 | Guide Rod | 2 |
| 3 | Chuck Frame | 1 |
| 4 | Spring | 2 |
| 5 | Anchoring Pin | 2 |
| 6 | Base | 1 |
| 7 | Knob | 2 |
| 8 | Washer | 2 |
| 9 | Depth Stopper | 1 |
| 10 | Drill Chuck | 1 |
| 11 | Bushing | 2 |
| 12 | Frame Stopper | 1 |
| 13 | Retainer Ring | 2 |
| 14 | Spindle | 1 |

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

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR 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.