ESPAÑOL: PÁGINA 15 FRANÇAISE : PAGE 27

Instruction manual

CLIPPED HEAD FRAMING NAILER



MODEL FM350A

To learn more about Porter-Cable visit our website at:

http://www.porter-cable.com



IMPORTANT

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

The Model and Serial No. plate is located on the main housing of the tool. Record these numbers in the spaces below and retain for future reference.

Model No.

Туре _____

Serial No.

PORTER+CABLE

Porter-Cable Corporation 4825 Highway 45 North Jackson, TN 38305

GB ENGLISH EC-DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product is in conformity with the regulations EN292-2: section 3 of 1992 EN292-1: section 5 of 1992 EN1050: 1993 EN792 13: 2000

E ESPANOL DECLARACION DE CONFORMIDAD "CE"

Declaramos bajo nuestra sola responsabilidad que est e producto está en conformidad con las regulaciones EN292-2: section 3 of 1992 EN292-1: section 5 of 1992 EN1050: 1993 EN792 13: 2000

F FRANÇAISE DÉCLARATION DE CONFORMITÉ CE

Nous declarons sous notre propre responsabilite que ce produit est conforme aux reglementations EN292-2: section 3 of 1992 EN292-1: section 5 of 1992 EN1050: 1993 EN792 13: 2000

Ko bert

Robert F. Burkholder Sr. Vice President of Technology



Date of Manufacture:_

Fecha de fabricación:, Date de fabrication:

Serial No:_

Número de serie:, Nombre d'ordre

SAFETY GUIDELINES / DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these sections.

- **ADANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- **AWARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- **ACAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
- **CAUTION** used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS!

AWARNING Improper operation or maintenance of this product could result in serious injury and property damage. Read and understand all warnings and operating instructions before using this tool. When using pneumatic tools, basic safety precautions should always be followed to reduce the risk of personal injury.

READ AND FOLLOW ALL INSTRUCTIONS.

AWARNING There are certain applications for which this tool was designed. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Porter-Cable and we have advised you.

Technical Service Manager Porter-Cable Corporation 4825 Highway 45 North Jackson, TN 38305

A DANGER GENERAL SAFETY RULES

1. Read and understand tool labels and manual. Failure to follow warnings could result in **DEATH** or **SERIOUS INJURY**. Fig. 1.

2. Operator and others in work area MUST wear safety glasses with side shields. These safety glasses must conform to ANSI Z87.1 requirements (approved glasses have "Z87" printed or stamped on them). Fig. 2.

3. Keep fingers AWAY from trigger when not driving fasteners to avoid accidental firing. Never carry tool with finger on trigger. In "contact actuation mode", tool will fire a fastener if tool is bumped.

4. Choice of triggering method is important. Check manual for triggering options. See "Using the Tool with Selectable Triggering Options" section of this manual.

5. Never point tool at yourself or others in work area. Serious injury or death may occur if the tool is activated. Fig. 3

6. Never use oxygen or other bottled gasses. Explosion will occur. Never use combustible gases or any other reactive gas as a power source for this tool: explosion and serious personal injury will result. Fig. 4.

7. Wear ear protection to safe-guard against possible hearing loss. Ear protection equipment must conform to ANSI S3.19 requirements. Fig. 5.

8. Use clean, dry, regulated, compressed air at 70 to 120 PSI, (4.8 to 8.3 BAR). Fig. 6.













9. Do not connect tool to pressure which potentially exceeds 200 PSI (13.7 BAR).

10. All air line components (hoses, connectors, filters, regulators, etc.) must be rated for a maximum working pressure of at least 150 PSI (10.3 BAR) or 150% of the maximum system pressure, which ever is greater.

11. Connect tool to air supply hose with a coupling that automatically removes all pressure from the tool when the coupling is disconnected. Fig. 7.

12. Disconnect tool from air supply hose before doing tool maintenance, clearing a jammed fastener, leaving work area, moving tool to another location, or handing the tool to another person. Fig. 7.

13. Never use a tool that is leaking air, has missing or damaged parts, or requires repair. Make sure all screws and caps are securely tightened. Fig. 8.

14. Never use tool if safety, trigger or springs are inoperable, missing or damaged. Do not alter or remove safety, trigger, or springs. Make daily inspections for free movement of trigger and safety mechanism. Fig. 8.

15. Do not use tool without safety warning label. If label is missing, damaged or unreadable, contact your Porter-Cable Service Center for a replacement. Fig. 9.

16. Only use parts, fasteners and accessories approved by Porter-Cable.

17. Connect tool to air supply before loading fasteners, to prevent a fastener from being fired during connection. The tool driving mechanism may cycle when tool is connected to the air supply. Fig. 10.

18. Always assume the tool contains fasteners. No horseplay. Respect the tool as a working implement. Fig. 11.

19. Operator and bystanders should wear hard hats to safeguard against possible injuries. Fig. 12.

20. Do not load fasteners with trigger or safety depressed, to prevent unintentional firing of a fastener. Fig. 13





Fig. 13

21. Remove finger from trigger when not driving fasteners. Never carry tool with finger on trigger. In "Contact Actuation Mode" tool will fire a fastener if safety is bumped while trigger is depressed. Fig. 14.

22. Do not overreach. Keep proper footing and balance at all times when using or handling the tool.

23. Fire fasteners into work surface only: never into materials too hard to penetrate. Fig. 15.

24. Grip tool firmly to maintain control while allowing tool to recoil away from work surface as fastener is driven. In "Contact Actuation Mode" if safety element is allowed to recontact work surface before trigger is released an unwanted fastener will be fired.

25. Do not drive fasteners on top of other fasteners, or with the tool at too steep an angle: the fasteners can ricochet causing personal injury. Fig. 15.

26. Do not drive fasteners close to the edge of the workpiece. The workpiece is likely to split allowing the fastener to fly free or ricochet causing personal injury. Fig. 16.

27. FOR TOOLS SET FOR CONTACT ACTUATION MODE, Do not use on scaffoldings or ladders or for tasks in which changing location involves the use of scaffoldings, stairs, ladders, and the like. Do not use for specific tasks such as closing boxes or crates or fitting transportation safety systems on vehicles and wagons. Fig. 17.









TECHNICAL SPECIFICATIONS

Noise level

 A - Weighted sound impulse ... power level 105 dBA
P - Emission sound pressure pressure level 98 dBA Typical Mean effective Acceleration 4.2 m/s²

EMPLOYER'S RESPONSIBILITIES

Employer must enforce compliance with the safety warnings and all other instructions contained in this manual.

Keep this manual available for use by all people assigned to use this tool.

For personal safety and proper operation of this tool, read and understand tool labels and manual. Failure to follow warnings could result in DEATH or SERIOUS INJURY. Read and follow all of these instructions carefully.

FUNCTIONAL DESCRIPTION

Porter-Cable Model FM350A is a heavy duty pneumatic framing nailer. It is designed to install .113" to .131" diameter, wire collated clipped head, framing nails of various lengths ($2^{"}$ to $3^{1}/_{2}^{"}$). Fastener collation angle is 28° .

Use approved Porter-Cable fasteners only.

POWER SOURCE

This tool is designed to operate on clean, dry, compressed air at regulated pressures between 70 and 120 PSI (Pounds per Square Inch)(4.8 to 8.3 BAR). The preferred system would include a filter, a pressure regulator, and an automatic oiler located as close to the tool as possible, within 15 ft/4.6 m is ideal.

All compressed air contains moisture and other contaminates that are detrimental to internal components of the tool. An air line filter will remove most of these contaminates and significantly prolong the life of the tool. If an in-line oiler is not available: place five or six drops of Porter-Cable Air Tool Oil into the tool's air inlet at the beginning of each workday.

The tool is equipped with a 1/4" male "quick connector". A 3/6" male "quick connector" is available from Porter-Cable and may be used in situations where a 1/4" supply line is not available. A 3/6" supply line (and fittings) are required for maximum tool performance. The tool must always be connected to the air supply with a coupling such that all pressure is removed from the tool when the coupling is disconnected.

PREPARING THE TOOL

1. After reading and understanding this entire manual, connect tool to air supply (Fig. 18).

2. Orient a strip of approved fasteners with points down (A) Fig. 19, align, and insert into the magazine "T" slot **points first.**

AWARNING Do not load fastener strip into magazine backwards.

3. Observe fastener icon (A) Fig. 20. Insert fasteners (B) Fig. 20 with points down (C) Fig. 20. Slide fasteners forward to the front of the magazine. The magazine will hold two full strips of fasteners.

IMPORTANT: Fasteners must point in the same direction as they will be driven.

4. Feed the strip of fasteners into the magazine ("T" slot), until they are past the nail stop (A) Fig. 21.

5. Pull the follower (B) Fig. 21A, all the way to the rear of the magazine and allow the follower (C) Fig. 21B to slide forward gently applying pressure to the nail strips to feed the nails into the nail slot of the nose casting. Do not allow the nail pusher to snap forward against the nail strips. This may damage the nail collation and cause the nails to lodge in the nail slot of the nose casting.



6. Adjust directional exhaust deflector (A) Fig. 22, so that the exhaust air blast will be directed away from the operator. The exhaust deflector provides eight detented positions for directing the exhaust blast away from the operator. Grasp the deflector and rotate it to the desired position for the current application.



OPERATING INSTRUCTIONS

USING THE TOOL WITH SELECTABLE TRIGGERING OPTIONS

Complete all steps of PREPARING THE TOOL before using the tool.

This tool is shipped from the factory with a selectable trigger set in the **"SINGLE SEQUENTIAL ACTUATION"** firing mode as described in number 1 below. The selectable trigger can be set for the **"CONTACT ACTUATION"** firing mode as described in number 2 below;

1. To use the tool in the **SINGLE SEQUENTIAL ACTUATION MODE** depress trigger lever pivot pin (A) Fig. 23, rotate arrow to position (B), and release. **Note:** Trigger lever pivot pin is spring loaded and held in position by locking tab (D) Fig. 23 to prevent movement during operation. To fire, grip tool firmly to maintain control, position nose of tool onto work surface, **push** tool firmly against work surface to depress safety, as shown at (S) Fig. 24, and then squeeze trigger to fire a fastener. Allow tool to recoil away from work surface as fastener is driven. This "single sequential actuation" method provides the most accurate fastener placement.

-OR-

2. To use the tool in the **CONTACT ACTUATION MODE** depress trigger lever pivot pin (A) Fig. 23, rotate arrow to position (C), and release. **Note:** Trigger lever pivot pin is spring loaded and held in position by locking tab (D) Fig. 23 to prevent movement during operation. To fire, grip tool firmly to maintain control, squeeze and hold trigger, push tool firmly against work surface to depress contact safety, as shown at (S) Fig. 24, and fire a fastener. Allow tool to recoil away from work surface as fastener is driven. If safety element is allowed to recontact work surface before trigger is released an unwanted fastener will be fired. The tool will fire a fastener each time the contact safety is depressed. This method is known as "contact actuation" and allows very fast repetitive fastener placement.

IMPORTANT: A trigger, which will **limit** the tool to "**single sequential actuation**" only, is available free-of-charge by calling 1-800-321-9443 in the United States and Canada or 001-731-660-9374 outside the United States and Canada, and providing tool model number, type, serial number, etc. For identification purposes: the **single sequential actuation** trigger is red.



AWARNING Disconnect tool from air supply before performing maintenance, clearing a jammed fastener, leaving work area, moving tool to another location, or handing the tool to another person.

AWARNING Clean and inspect tool daily. Carefully check for proper operation of trigger and safety mechanism. **Do Not** use the tool unless both the trigger and the safety mechanism are functional, or if the tool is leaking air or needs any other repair.

The depth to which a fastener is driven is controlled by the depth adjustment knob (A) Fig. 25. The depth of drive is factory adjusted to a nominal setting. Test fire a fastener and check depth. If a change is desired, rotate the adjustment knob (A) Fig. 25. The adjustment knob has detents every ¹/₄ turn. Rotate the knob (A) Fig. 25 clockwise to increase the depth of drive, rotate the knob counterclockwise to decrease the depth of drive. Test fire another fastener and check depth. Repeat as necessary to achieve desired results. The amount of air pressure required will vary depending on the size of the fastener and the material being fastened. Experiment with the air pressure setting to determine the lowest setting that will consistently perform the job at hand. Air pressure in excess of that required can cause premature wear and/or damage to the tool.

A rubber nose cushion (A) Fig. 26 is provided to reduce marring of the work surface. The rubber cushion can be removed, and stored inside the bracket (B) Fig. 27, to provide increased depth-of-drive for toe-nailing applications.

AWARNING Disconnect tool from air supply before removing or re-installing rubber cushion.







CLEARING A JAMMED FASTENER

AWARNING Disconnect tool from air supply.

- 1. Remove any remaining fasteners from the nailer.
 - A. Place finger in recess (A) Fig. 28, and depress lever to release follower mechanism.
 - B. With follower release button (A) Fig. 28 depressed, slide follower all the way to the front of the magazine.
 - C. Depress nail stop (B) Fig. 29, slide fasteners to the rear, and remove from magazine (Fig. 29A).





2. If a nail is jammed between the driver an nose casting, the simplest way to remove the jam is to force the driver blade back to the top or start position by using a long approx. 1/4" diameter punch & hammer. The nail is will no longer wedged and will either fall free out of the nose or can be extracted using needle nose pliers (A) Fig. 30. If removal of the magazine is required, proceed as follows:

- A. Remove the two screws (B) Fig. 31.
- B. Disassemble the magazine.
- C. After clearing bent fastener, reverse above steps to reassemble.



MAINTENANCE

CLEAN AND INSPECT DAILY

AWARNING Disconnect tool from air supply before cleaning and inspection. Correct all problems before placing the tool back in use.

Wipe tool clean and inspect for wear or damage. Use non-flammable cleaning solutions to wipe exterior of tool only if necessary. DO NOT SOAK tool with cleaning solutions. Such solutions can damage internal parts.

Inspect trigger and safety mechanism to assure system is complete and functional: no loose or missing parts, no binding or sticking parts.

Keep all screws tight. Loose screws can cause personal injury or damage tool.

If tool is used without an in-line oiler: place 5 or 6 drops of Porter-Cable Air Tool Oil into the air inlet of the tool at the beginning of each workday.

SERVICE AND REPAIRS

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations should ONLY be performed by either an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE•DELTA FACTORY SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We cannot guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.).

AWARNING Disconnect tool from air supply before performing any Service Procedure.

	SYMPTOM	PROBLEMS	SOLUTIONS
1.	Air leak near top of tool or in trigger area.	Loose screws. Worn or damaged o-rings or seals.	Tighten screws. Install Overhaul Kit.
2.	Tool does nothing or operates sluggishly.	Inadequate air supply. Inadequate lubrication. Worn or damaged o-rings or seals.	Verify adequate air supply. Put 5 or 6 drops of oil into air inlet. Install Overhaul Kit.
3.	Air leak near bottom of tool.	Loose screws. Worn or damaged o-rings or bumper.	Tighten screws. Install Overhaul Kit.
4.	Tool jams frequently.	Incorrect fasteners. Damaged fasteners. Magazine or nose screws loose. Magazine is dirty. Driver is worn or damaged.	Verify approved fasteners of correct size. Replace w/undamaged fasteners. Tighten screws. Clean magazine. Install "DRIVER" Maintenance Kit.
5.	Other.		Contact a Porter-Cable Service Facility.

ACCESSORIES

A complete line of accessories is available from your Porter-Cable • Delta Supplier, Porter-Cable • Delta Factory Service Centers, and Porter-Cable Authorized Service Stations. Please visit our Web Site <u>www.porter-cable.com</u> for a catalog or for the name of your nearest supplier.

AWARNING Since accessories, other than those offered by Porter-Cable • Delta, have not been tested with this product, use of such accessories could be hazardous. For <u>safest operation</u>, only Porter-Cable • Delta recommended accessories should be used with this product.

PORTER-CABLE LIMITED ONE YEAR WARRANTY

Porter-Cable warrants its nailing and stapling tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which, after examination, proves to be defective in workmanship or material during the warranty period. For repair or replacement return the complete tool or accessory, transportation prepaid, to your nearest Porter-Cable Service Center or Authorized Service Station. Proof of purchase may be required. This warranty does not apply to O-rings and Driver Blades or to repair or replacement required due to misuse, abuse, normal wear and tear or repairs attempted or made by other than our Service Centers or Authorized Service Stations.

ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

To obtain information on warranty performance please write to: PORTER-CABLE CORPORATION, 4825 Highway 45 North, Jackson, Tennessee 38305; Attention: Product Service. THE FOREGOING OBLIGATION IS PORTER-CABLE'S SOLE LIABILITY UNDER THIS OR ANY IMPLIED WARRANTY AND UNDER NO CIRCUMSTANCES SHALL PORTER-CABLE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

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Parts and Repair Service for Porter-Cable • Delta Power Tools are Available at These Locations (Obtenga Refaccion de Partes o Servicio para su Herramienta en los Siguientes Centros de Porter-Cable • Delta) (Locations où vous trouverez les pièces de rechange nécessaires ainsi qu'un service d'entretien)

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оню Columbus 43214

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Houston 77055 West 10 Business Center 1008 Wirt Road, Suite 120 Phone: (713) 682-0334 Fax: (713) 682-4867

WASHINGTON

Auburn 98001(Seattle) 3320 West Valley HWY, North Building D. Suite 111 Phone: (253) 333-8353 Fax: (253) 333-9613

Authorized Service Stations are located in many large cities. Telephone 800-487-8665 or 731-541-6042 for assistance locating one. Parts and accessories for Porter-Cable • Delta products should be obtained by contacting any Porter-Cable • Delta Distributor, Authorized Service Center, or Porter-Cable • Delta Factory Service Center. If you do not have access to any of these, call 888-848-5175 and you will be directed to the nearest Porter-Cable • Delta Factory Service Center. Las Estaciones de Servicio Autorizadas están ubicadas en muchas grandes ciudades. Llame al 800-487-8665 ó al 731-541-6042 para obtener asistencia a fin de localizar una. Las piezas y los accesorios para los productos Porter-Cable • Delta deben obtenerse poniéndose en contacto con cualquier distribuidor Porter-Cable • Delta, Centro de Servicio Autorizado o Centro de Servicio de Fábrica Porter-Cable • Delta. Si no tiene acceso a ninguna de estas opciones, llame al 888-848-5175 y le dirigirán al Centro de Servicio de Fábrica Porter-Cable • Delta más cercano. Des centres de service agréés sont situés dans beaucoup de grandes villes. Appelez au 800-487-8665 ou au 731-541-6042 pour obtenir de l'aide pour en repérer un. Pour obtenir des pièces et accessoires pour les produits Porter-Cable • Delta, s'adresser à tout distributeur Porter-Cable • Delta, centre de service agréé ou centre de service d'usine Porter-Cable • Delta. Si vous n'avez accès à aucun de ces centres, appeler le 888-848-5175 et on vous dirigera vers le centre de service d'usine Porter-Cable • Delta le plus proche.

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