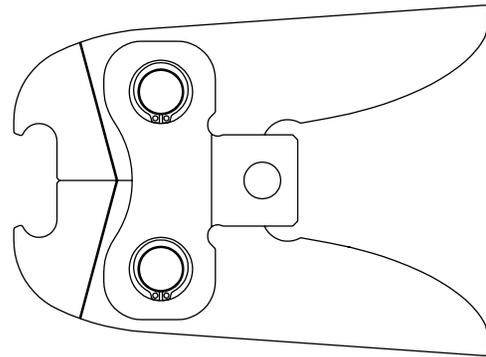
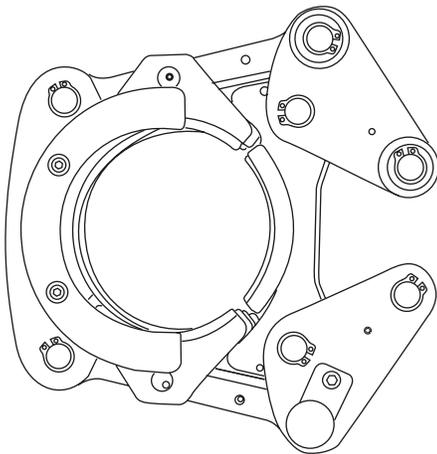


INSTRUCTION MANUAL



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PC-2, PC-3 and PC-4 Pressing Chains



Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

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Purpose of this Manual

This manual is intended to familiarize all users with the safe operation and maintenance procedures for the:

- PC-2** 2-1/2" Pressing Chain with Carrying Case
- PC-3** 3" Pressing Chain with Carrying Case
- PC-4** 4" Pressing Chain with Carrying Case

Keep this manual available to all users.

For additional copies of the manual, visit the NIBCO website: www.nibco.com.

This manual should be used in conjunction with the instruction manual for the PC-100 Pressing Tool, which describes safety precautions to be observed when operating the tool.

Other Publications:

PC-100 Pressing Tool Instruction Manual: 52025251

Description

The PC-2, PC-3, and PC-4 Pressing Chains are intended for use with the PC-100 Pressing Tool to press 2-1/2" to 4" copper NIBCO press fittings and valves onto type K, L, and M hard-drawn copper tubing.

Safety

Safety is essential in the use and maintenance of NIBCO tools and equipment. This manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all of the safety information provided.

Warranty

For warranty information on the NIBCO pressing tools, contact NIBCO technical services at 1-888-446-4226, or visit the NIBCO website: www.nibco.com.

KEEP THIS MANUAL

IMPORTANT SAFETY INFORMATION



**SAFETY
ALERT
SYMBOL**

This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.

⚠ DANGER

Immediate hazards which, if not avoided, **WILL** result in severe injury or death.

⚠ WARNING

Hazards which, if not avoided, **COULD** result in severe injury or death.

⚠ CAUTION

Hazards or unsafe practices which, if not avoided, **MAY** result in injury or property damage.



⚠ WARNING

Read and understand all of the instructions and safety information in this manual before operating or servicing this tool.

Failure to observe this warning could result in severe injury or death.

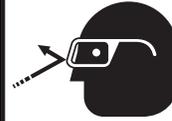


⚠ WARNING

Electric shock hazard:

This tool is not insulated. When using this unit on or near energized electrical lines, use proper personal protective equipment.

Failure to observe this warning could result in severe injury or death.



⚠ WARNING

Wear eye protection when operating or servicing this tool.

Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.



⚠ WARNING

Skin injection hazard:

Oil under pressure easily punctures skin causing serious injury, gangrene, or death. If you are injured by escaping oil, seek medical attention immediately.

- Do not use hands to check for leaks.
- Depressurize the hydraulic system before servicing.



⚠ WARNING

Do not use solvents or flammable liquids to clean the pressing tool. Solvents or flammable liquids could ignite and cause serious injury or property damage.

⚠ WARNING

An incomplete press can cause a leak.

- Use proper fitting and tubing combinations. Improper combinations can result in an incomplete press.
- The relief valve will sound and the pressing tool automatically retracts when a complete press has been achieved. If you do not hear a “pop” and the pressing tool does not automatically retract, the press is not complete.

Failure to observe these warnings could result in severe injury or property damage.



⚠ WARNING

Keep hands away from the pressing tool head when pressing.

Failure to observe this warning could result in severe injury or death.

IMPORTANT SAFETY INFORMATION

⚠ WARNING

Do not dispose of batteries in a fire. They will vent fumes and may explode.

Failure to observe this warning could result in severe injury from harmful fumes or burns from flying debris.

⚠ WARNING

Inspect tool before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike bystanders.

Failure to observe this warning could result in severe injury or death.

⚠ CAUTION

- Do not operate the tool without a fitting in place. Damage to the pressing head can result.
- Do not use this tool for continuous use. After 50 cycles, allow the tool to cool for 15 minutes.
- Do not secure this tool in a vise. This tool is designed for hand-held operation.
- This tool may be used in damp or wet environments; however, air-drying is recommended before use if the tool becomes soaked. Damage may result when the tool is operated prior to thorough drying when electrical components are soaked.
- Use this tool for the manufacturer's intended purpose only.

Failure to observe these precautions may result in injury or property damage.

⚠ CAUTION

Do not allow anything to contact the battery terminals.

- Do not immerse the batteries in liquid. Liquid may create a short circuit and damage the battery. If batteries are immersed, contact your service center for proper handling.
- Do not place the battery into a pocket, tool pouch, or tool box with conductive objects. Conductive objects may create a short circuit and damage the battery.
- Do not place a battery on moist ground or grass. Moisture may create a short circuit and damage the battery.

Failure to observe these precautions may result in injury or property damage.

⚠ CAUTION

- Do not store the battery at more than 60 °C (140 °F). Damage to the battery can result.
- Do not use another manufacturer's charger. Other manufacturers' chargers may overcharge and damage the battery.
- Do not attempt to open the battery. It contains no user-serviceable parts.

Failure to observe these precautions may result in injury or property damage.

⚠ CAUTION

Do not perform any service or maintenance other than as described in this manual. Injury or damage to the tool may result.

Failure to observe this precaution may result in injury and property damage.

Operation

⚠ WARNING

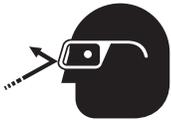
Inspect tool before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike nearby personnel. Failure to observe this warning could result in severe injury or death.

⚠ WARNING



Electric shock hazard:
This tool is not insulated. When using this unit on or near energized electrical lines, use proper personal protective equipment. Failure to observe this warning could result in severe injury or death.

⚠ WARNING



Wear eye protection when operating or servicing this tool. Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.

⚠ WARNING



Pinch points:
Keep hands away from the pressing tool head when pressing. Failure to observe this warning could result in severe injury or death.

⚠ WARNING

An incomplete press can cause leaks.

- Use proper fitting and copper tubing combinations. Improper combinations can result in an incomplete press.
- The relief valve will sound and the pressing tool automatically retracts when a complete press has been achieved. If you do not hear a “pop” and the pressing tool does not automatically retract, the press is not complete.

Failure to observe these warnings could result in severe injury or property damage.

⚠ CAUTION

- Do not use this tool for continuous use. After 50 cycles, allow the tool to cool for 15 minutes.
- Do not secure this tool in a vise. This tool is designed for hand-held operation.
- This tool may be used in damp or wet environments; however, air-drying is recommended before use if the tool becomes soaked. Damage may result when the tool is operated prior to thorough drying when electrical components are soaked.
- Use this tool for the manufacturer’s intended purpose only.

Failure to observe these precautions may result in injury or property damage.

⚠ CAUTION

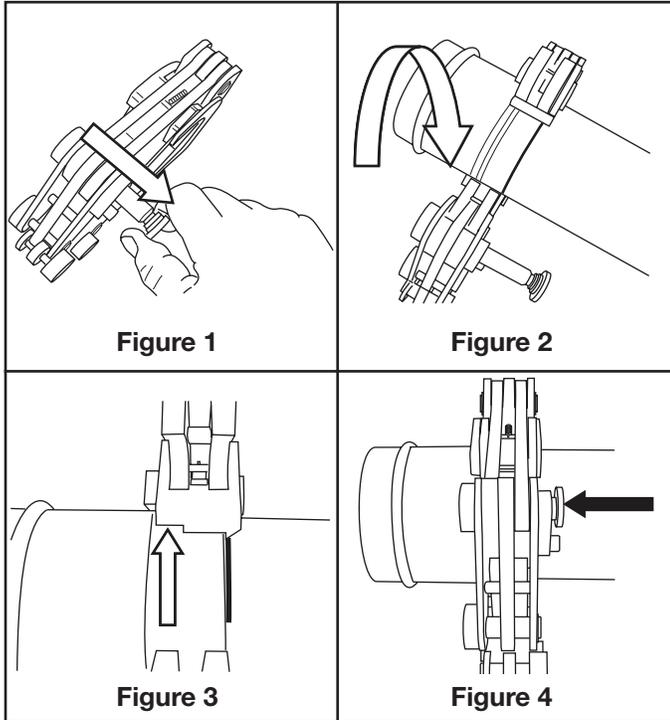
NIBCO fittings and valves (2-1/2", 3", 4" ends) to be installed **ONLY** with:

- NIBCO PC-100 pressing tool
- NIBCO PC-5 adapter jaw
- NIBCO pressing chain: 2-1/2" (PC-2)
3" (PC-3)
4" (PC-4)

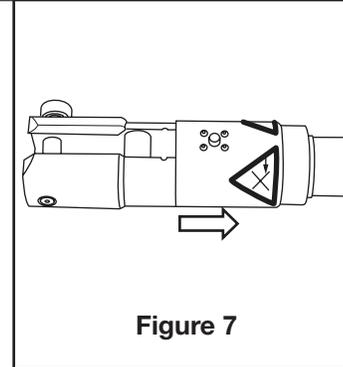
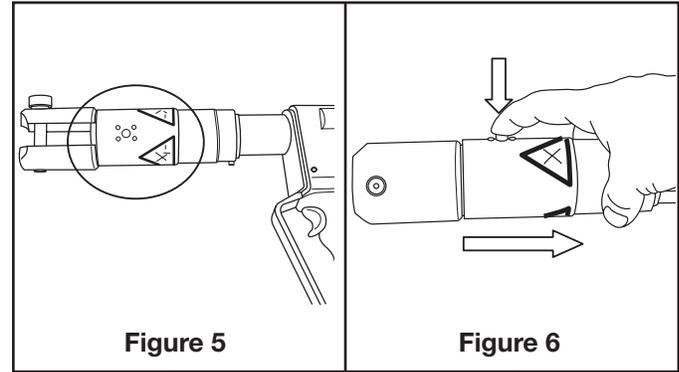
Failure to observe these precautions may result in injury or property damage.

Operation (cont'd)

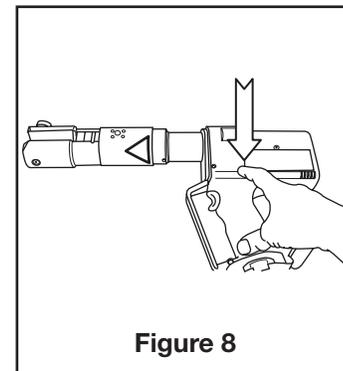
1. Select the proper size pressing chain for the intended application. Examine the chain for wear, damage, dirt or copper buildup. Replace if worn or damaged and remove any dirt or copper buildup with a brush or soft cloth with light lubricating oil.
2. Disengage the release pin on the pressing chain (see figures below) and open the chain. Install the pressing chain around the fitting to be pressed and re-engage the pin on the pressing chain.



3. Check that the red protective sleeve is in the rear position and the **chains 2-1/2" to 4"** marking is visible on the PC-100 tool. If not, depress the button on the protective sleeve and move the sleeve to the rear position (see figures below). Release the button to secure the protective sleeve.



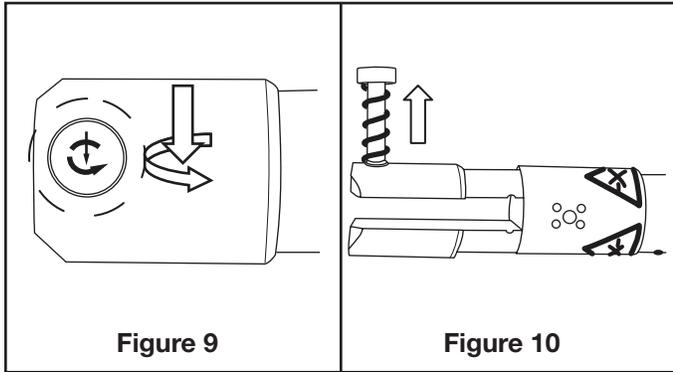
4. Push the retract button on the PC-100 tool to completely retract the drive rollers (see figure below).



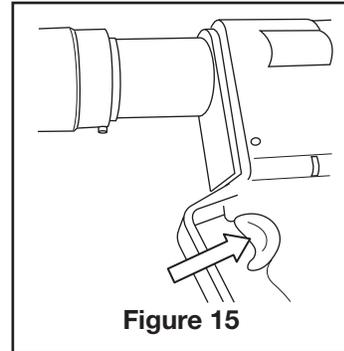
	<p>⚠ WARNING</p>
	<p>Before installing the pressing jaws, remove battery to avoid unintentional operation.</p> <p>Failure to observe this warning could result in severe injury or property damage.</p>

Operation (cont'd)

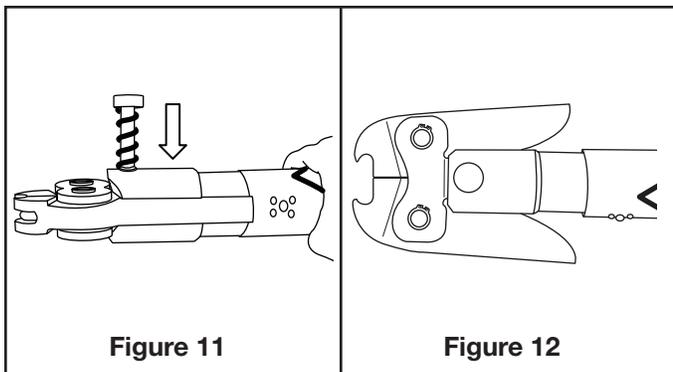
- Depress the lock pin on the PC-100 tool (see figures below) and rotate counterclockwise to disengage the pin on the pressing tool.



- Reinstall the battery and depress the tool trigger to press the fitting. Continue to depress the trigger until the relief valve actuates and the drive rollers automatically retract.



- Install the adapter jaw into the pressing tool and align mounting hole in jaw with pin. Depress the pin to secure the adapter jaw (see figures below).



Notes:

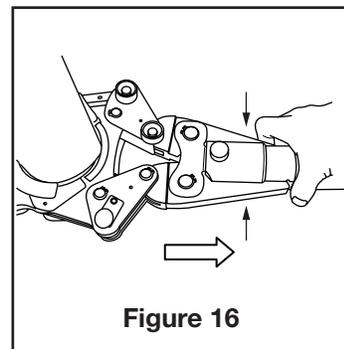
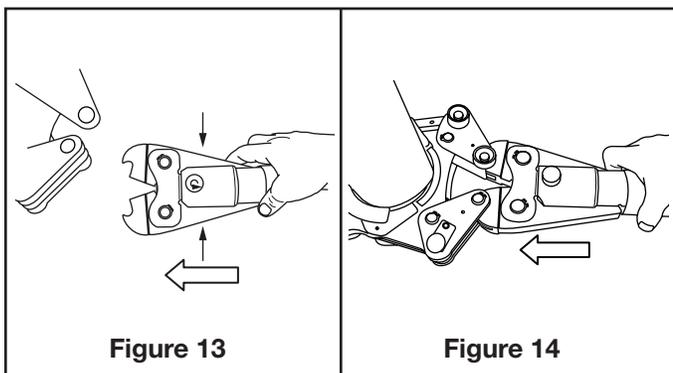
If the drive rollers do not automatically retract, the press is incomplete.

The pressing cycle can be interrupted at any moment by releasing the trigger.

It is normal for the battery load display to light at both the beginning and near the end of the pressing cycle.

- Release the trigger until the drive rollers retract completely.
- Compress the adapter jaw ends together to open the jaws and remove the adapter jaw from the pressing chain (see below).

- Compress the ends of the adapter jaw together to open the jaws and install the adapter jaw into the pressing chain (see figures below).



Operation (cont'd)

11. Disengage the release pin on the pressing chain and remove the pressing chain from the pressed fitting.

Notes:

*The pressing chain must close completely to **ensure a leak-free connection**. Always check that the chain closes completely during a pressing cycle and no foreign objects are between the pressing chain and the mechanism.*

The pressing cycle can be interrupted at any moment by releasing the trigger.

If it is necessary to remove the chain before a pressing cycle is complete, push the retract button on the PC-100. Pushing the retract button will cause the drive rollers to retract completely so that the adapter jaw and chain can be removed.

If the pressing cycle must be stopped before the crimp is complete, and the chain has to be removed from the fitting, or the adapter jaw has to be removed from the chain, the fitting should be replaced or pressed a second time.

The PC-100 and pressing chains are intended to press NIBCO press fittings onto type K, L, and M hard-drawn copper tubing.

Maintenance

Each Operating Day

Before use:

1. Wipe all surfaces clean on the pressing chain with a cloth. Remove any dirt with a brush.
2. Inspect pressing chain for wear or damage such as cracks, gouges, or chips.
3. Inspect the PC-100 Pressing Tool for damage or leaks. If damage is detected, return the tool to an authorized NIBCO service center for inspection.

After use:

1. Wipe all surfaces clean on the pressing chain with a cloth. Remove any dirt with a brush.
2. Place the pressing chain in the carrying case. Store in a cool, dry place.

Monthly

1. Thoroughly clean all surfaces.
2. Oil the pin and bolt joints.

Annually or After 10,000 Presses

Return the chain to an authorized NIBCO service center for inspection.

	⚠ WARNING
	<p>Skin injection hazard: Do not use hands to check for oil leaks. High pressure oil easily punctures skin causing serious injury, gangrene, or death. If injured, seek medical help immediately to remove oil.</p>

Specifications

Mass/Weight

PC-2 2-1/2" Pressing Chain.....	10.4 lb (4.7 kg)
PC-3 3" Pressing Chain	11.2 lb (5.1 kg)
PC-4 4" Pressing Chain	15.5 lb (7.1 kg)

Required thrust force.....32 kN (3.6 tons)

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