

HANDWORKER®

WARNING

Improper operation or adjustment of this tool can injure you or others.

- Always wear safety glasses
- Never put your fingers or other body parts between the open jaws or handles of any tool.
- Always adjust the HandWorker air regulator to the minimum air pressure for each job.
- Do not use excessive air pressure. This applies a force greater than human hands can exert which can break tools and injure the operator or others.
- Never operate HandWorker with the safety cover in the up position.
- Adjust all tools for a maximum opening of 1/4" (7mm) for safety.

HandWorker should be connected to a compressed air supply with maximum pressure 120 psi (8 bar). The HandWorker air regulator controls the amount of force applied to the handle of the tool. The regulated air pressure is shown on the air gauge. The amount of force can be calculated:

Force on tool handle (lbs) = 2.0 X gauge air pressure (psi)
Force on tool handle (kg) = 13.2 X gauge air pressure (bar)

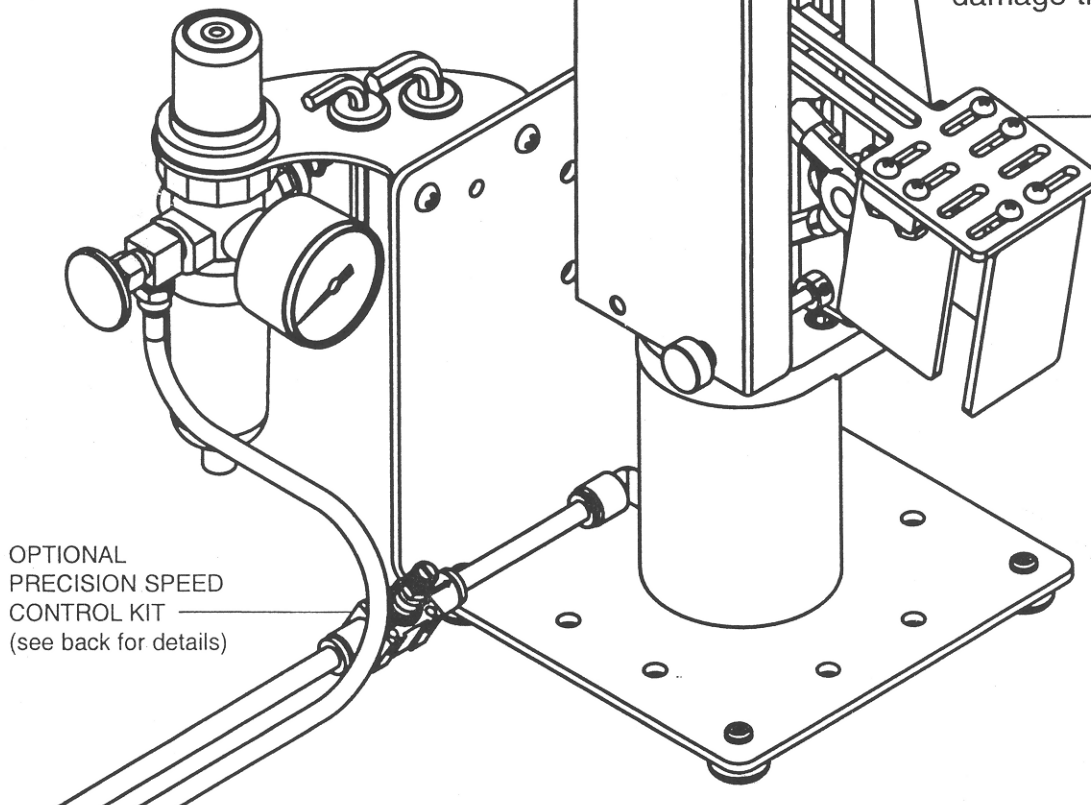
Examples:

Gauge reading 30 psi = 60.0 lbs. force on handle.

Gauge reading 2 bar = 26.4 kg force on handle.

FOR OPERATOR SAFETY & GOOD TOOL LIFE

Adjust the HandWorker air regulator to the minimum air pressure appropriate for each tool and job. Excessive air pressure applies excessive force to the tool handle which could injure the operator and damage the tool.



OPTIONAL
PRECISION SPEED
CONTROL KIT
(see back for details)

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ASSEMBLY

Attach the air filter / regulator bracket to the main base as shown. Mount the tool holder module onto the actuator base by lowering the module mount bolts through the keyhole slots. Slide the module toward the cylinder rod until the mount bolts reach the end of the keyhole slots. Be sure the actuator lever fits into the cylinder rod groove as shown. Tighten the module mount bolts using the 1/4" (6.35mm) hex wrench.

CONNECTING THE AIR HOSES

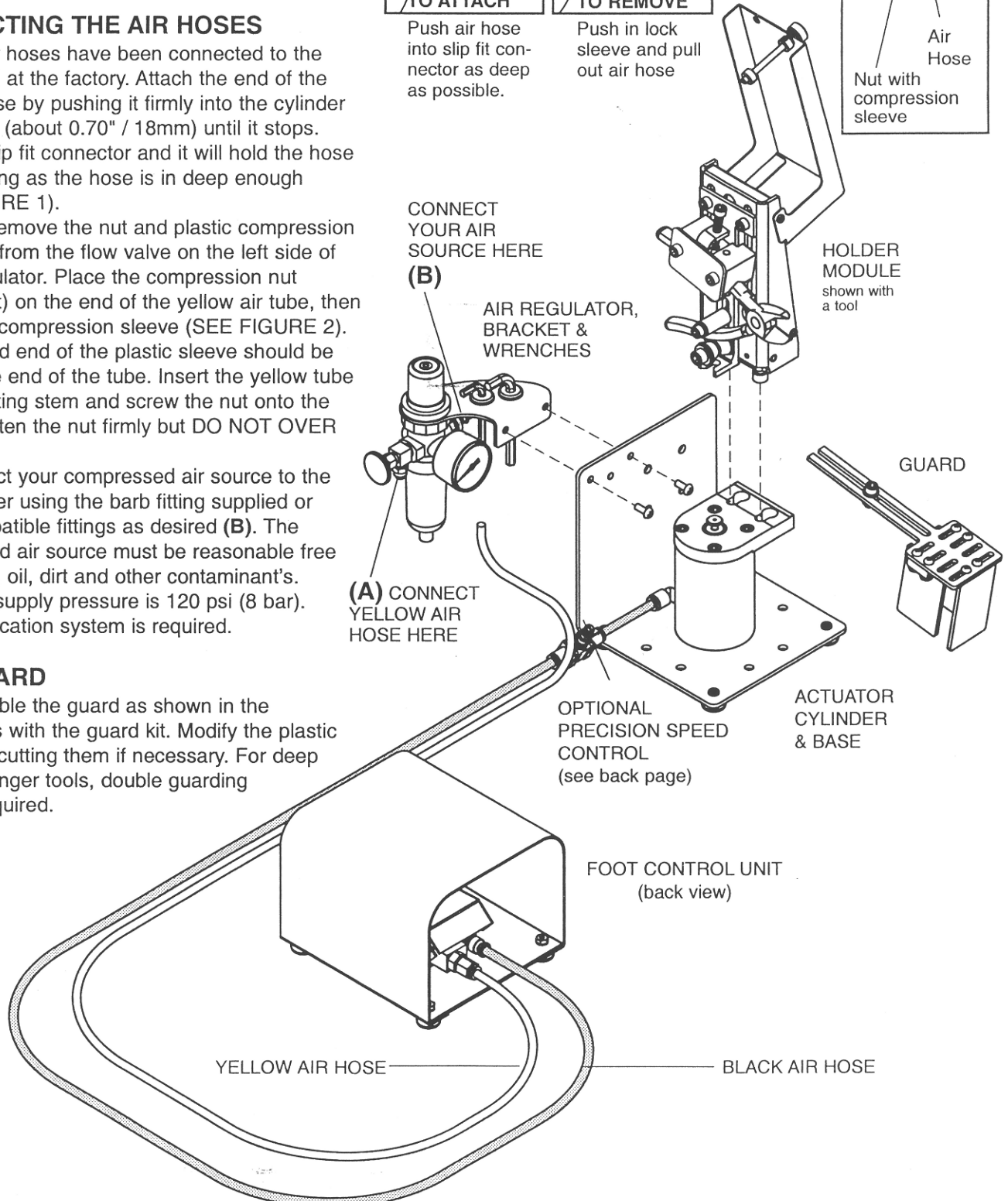
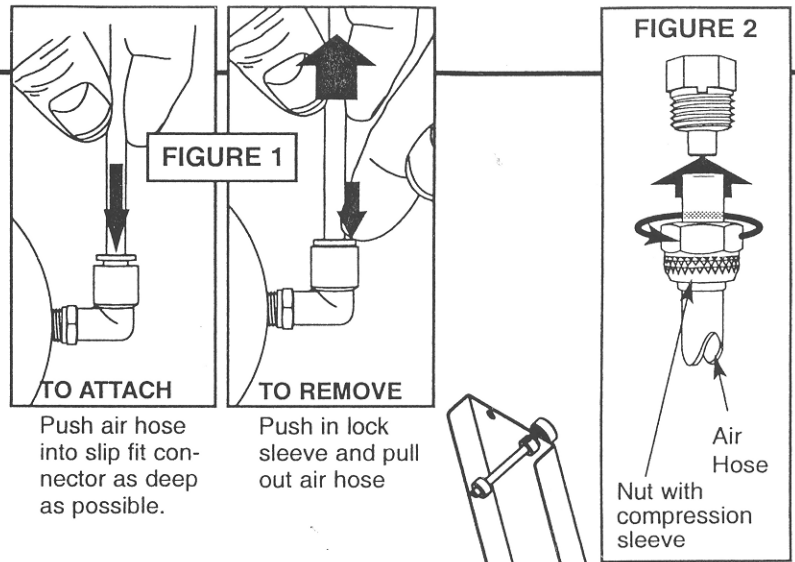
The air hoses have been connected to the foot control at the factory. Attach the end of the BLACK hose by pushing it firmly into the cylinder base fitting (about 0.70" / 18mm) until it stops. This is a slip fit connector and it will hold the hose firmly as long as the hose is in deep enough (SEE FIGURE 1).

Next, remove the nut and plastic compression sleeve (A) from the flow valve on the left side of the air regulator. Place the compression nut (thread last) on the end of the yellow air tube, then the plastic compression sleeve (SEE FIGURE 2). The tapered end of the plastic sleeve should be nearest the end of the tube. Insert the yellow tube over the fitting stem and screw the nut onto the fitting. Tighten the nut firmly but DO NOT OVER TIGHTEN.

Connect your compressed air source to the HandWorker using the barb fitting supplied or other compatible fittings as desired (B). The compressed air source must be reasonable free from water, oil, dirt and other contaminant's. Maximum supply pressure is 120 psi (8 bar). No air lubrication system is required.

THE GUARD

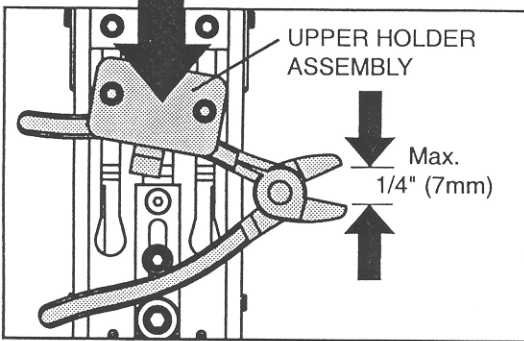
Assemble the guard as shown in the instructions with the guard kit. Modify the plastic shields by cutting them if necessary. For deep throat or longer tools, double guarding may be required.



OPERATION

TO MOUNT A TOOL

To mount a tool, loosen the Tool Clamp Bolt in the Tool Holder Module using the 3/16" (4.75mm) hex wrench. Then loosen the bolt in the end of the Return Roller and slide the Return Roller upward. Now, insert the tool handle through the upper clamp and between the lower rollers as shown (SEE FIGURE 3). Position the tool so it clamps in about the same area used by hand. Tighten the Tool Clamp Bolt snugly (DO NOT OVER TIGHTEN). Slide the Return Roller toward the lower handle leaving about .04" (1mm) clearance between the roller and handle. Tighten the Return Roller bolt. **NOTE:** You may remove the Return Roller for some spring loaded tools.



Loosen the two Upper Holder Lock Bolts about 1/4 turn. Slide the entire Upper Holder Assembly up/down until the tool jaws have a maximum opening of 1/4" (7mm). This protects the operator by limiting jaw opening. The upper holder assembly can also be rotated to position the tool at a desired angle. Now tighten the two Upper Holder Lock Bolts.

Assemble the Safety Guard (Instructions for assembly are in the box with Safety Guard) and attach it to the Holder Assembly with the bolt provided.

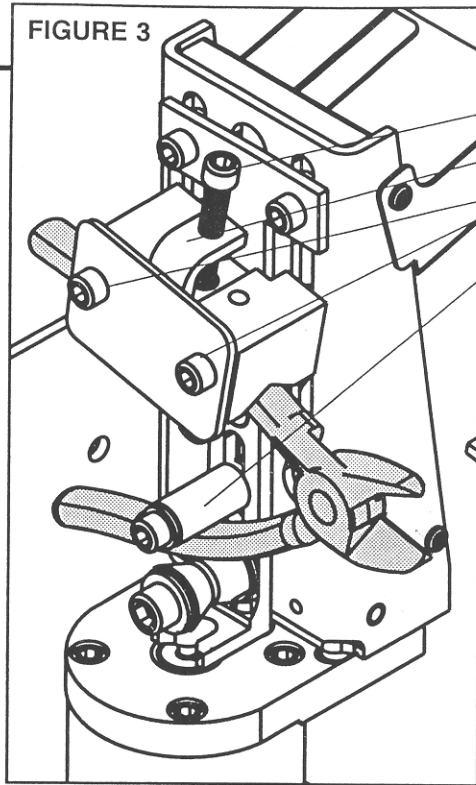
Close the Safety Cover. Adjust the air Regulator Knob until the gauge shows about 15 psi (1 bar). You will need to pull up on the knob to unlock and then turn to adjust pressure. Once pressure is set, push knob down to lock in place. Push the foot control and verify that the tool works properly with nothing in its jaws. If not, the Return Roller may be too close to the tool handle which can cause a bind.

If the HandWorker does not move at all, check that the Flow Control Knob is open slightly, about 1/2 turn counterclockwise.

Adjust the air pressure gradually until it is just enough to make the tool work properly. **DO NOT USE EXCESSIVE AIR PRESSURE** which could break the tool or injure the operator.

Adjust the HandWorker operating speed using the Flow Control Knob.

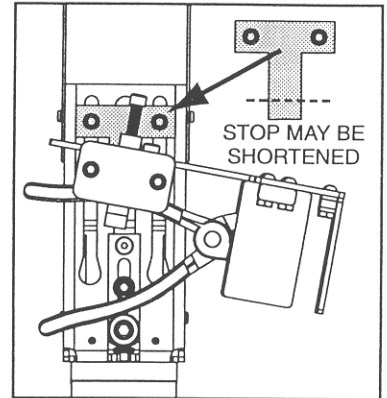
FIGURE 3



TOOL HOLDER MODULE

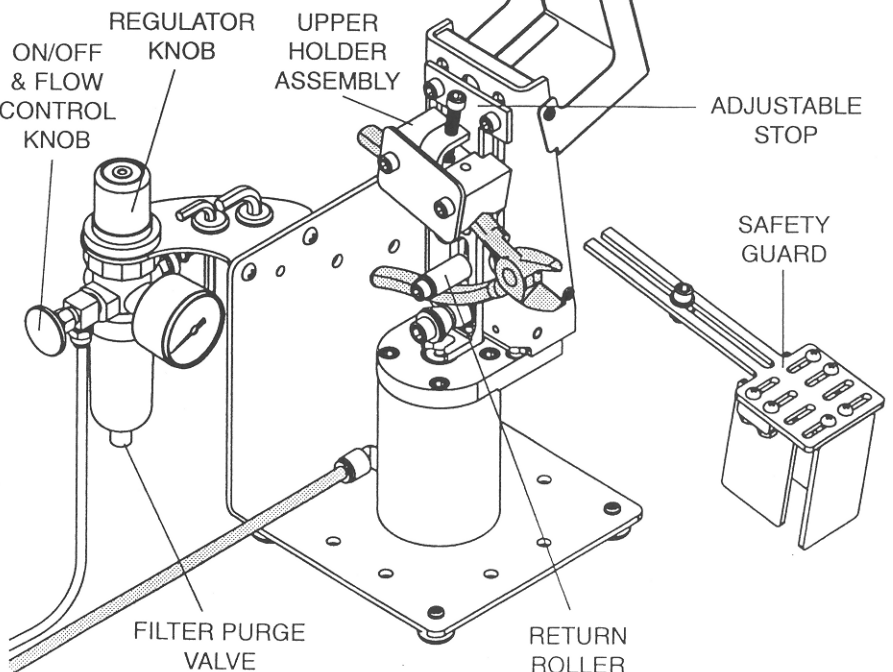
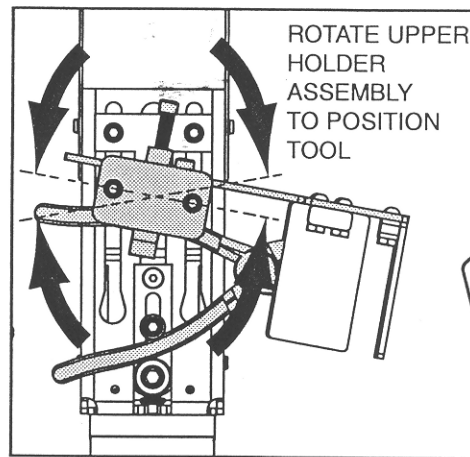
- TOOL CLAMP BOLT
- UPPER CLAMP
- UPPER HOLDER LOCK BOLTS
- RETURN ROLLER

TOOL STOP



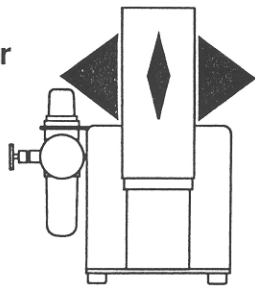
The Adjustable Stop limits actuator travel. It adjusts to stop full jaw closure or to protect delicate tools. **NOTE:** You may need to shorten the stop for larger hand tools.

To install: Attach the Tool Stop into the channels above the Holder Assembly as shown above.

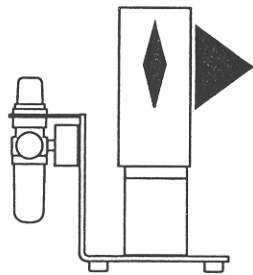


TOOL / CYLINDER PLACEMENT

Vertical Cylinder

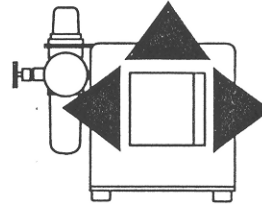


FRONT VIEW

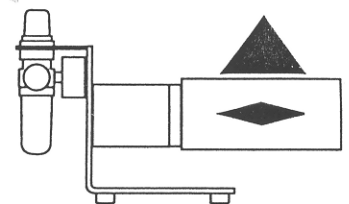


SIDE VIEW

Horizontal Cylinder

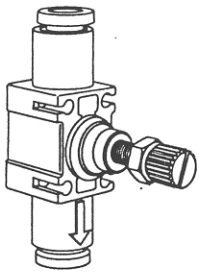


FRONT VIEW



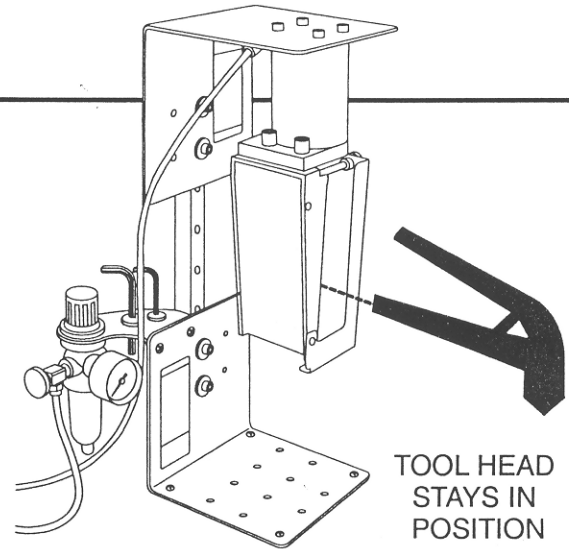
SIDE VIEW

OPTIONS / ACCESSORIES



PRECISION SPEED CONTROL KIT

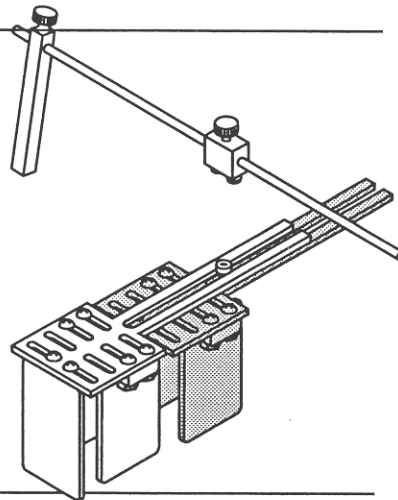
This precision speed control valve regulates the speed of the cylinder. This device slows the closing speed of a tool, which allows for safer hand feeding and precision placement of items placed into the tool. *ITEM #008-521*



TOOL HEAD STAYS IN POSITION

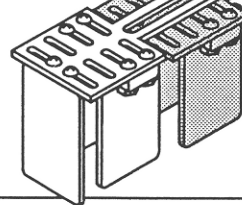
ADJUSTABLE STOP KIT

This adjustable stop kit lets you set a stop for controlling the cut-off length of wire, cable, chain, tubing, etc. Simply attaches to the guard kit arm. *ITEM #008-523*



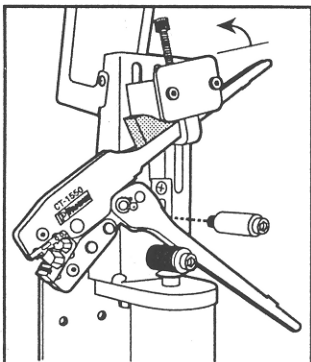
EXTRA GUARD KIT

Some long nose tools may require a doubled guard to cover the tool properly. *ITEM #008-522*



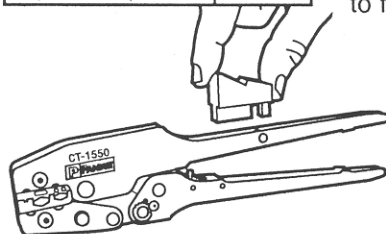
INVERTER KIT

With the HandWorker, only the lower handle of the tool is actually moved. The inverter kit allows the tool module and cylinder to be turned upside-down. Now the upper handle of the tool moves and the lower handle of the tool is stationary. This is ideal for tools that have a bottom arm function like a pop-riveter or special crimping tools. *ITEM #008-528*



SPECIAL BLOCK FOR PANDUIT®, HARTING® & OTHER CRIMPERS

Some crimpers have a pressure break-over release function that may require an angle block installed into the handle to work properly. If you have a tool that seems to fit into this category, give HandWorker a call, we may already have a special block or fixture designed to fit your needs.



OPTIONAL TOP CLAMP

This top clamp provides easier clamping of tools with ratcheting or compression mechanisms. It also can be used for tools that require to be positioned at a greater angle than the standard top clamp will allow. *ITEM #008-519*

