



8690FH



8690FSK



8690CK



8690CS



8690TN

H.K.Porter® 8690 Series
Ratchet Type Cutters

COOPER Tools

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<http://www.coopertools.com>

8690 Series Disassembly and Assembly

The following disassembly and assembly procedures apply to all models except where noted.

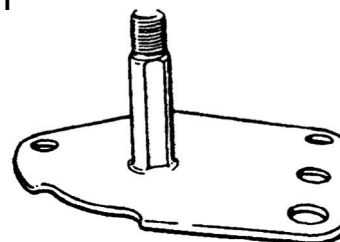
Disassembly:

1. Secure the tool in a vise by the right handle (handle without the ratchet) with the left handle parallel to the floor and the head pointing away from you.
2. **TN model:** Cut the rubber handle grip (P0380M) from the handle. Be careful not to damage the plastic sleeve.
3. **FH, FSK, CK, and CS models:** In the end of the left handle (the ratcheting handle), insert a hook type tool through the access hole in the end of the handle grip, hook the spring, pull the spring slightly towards you, twist 90 degrees and unhook the spring (P8678FS) from the pin. Note: removal of the handle grip is no longer required as a result of the added access hole to the new grip.
- 3a. **TN model:** Unhook the spring extension (P8679TN) from the pin on the ratchet handle using a hook type tool.
4. Loosen nut (T3171) from bolt (P8635FS) using 7/16" wrenches.
5. Remove the bolt and snubber (P8654FS).
6. Remove the tool from the vise.
7. Unhook the two closing springs (P8658FH).
8. Remove the closing spring bolt (P8634FS), nut (T3171) and snubber (P8654FS).
9. Remove the cutterhead from the handles using 9/16" wrenches. *Important: Note the difference in length between the two sets of bolts.*
10. Remove the right handle assembly, with the chain and spring still attached, from the left handle.
11. Remove the nut (P2666K) from the sprocket pivot bolt (P8692FS) using a 9/16" wrench.
12. Remove the sprocket pivot bolt (P8692FS).
13. Remove the two side plates (P8621FS), sprocket (P8624FS), bushing (P8642FS), detent pawl (P8637FS), and spring (P8677FS).
14. Remove the two crank plate bushings (P8646FS).
15. Clean all parts thoroughly with solvent.

Assembly:

1. Assemble the pivot bolt (P8692FS) to one of the side plates (P8621FS). Match the flat on the bolt with the flat in the plate hole. Lay this assembly on the bench with the bolt head down and the notched edge of the plate nearest to you. **See Illustration 1.**

Illustration 1



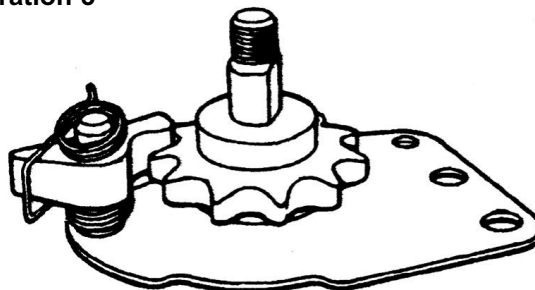
2. Apply a light film of grease to the shank of the pivot bolt.
3. Slide the sprocket (P8624FS) onto the pivot bolt.
4. Apply grease to the detent spacer bushing (P8642FS) and slide into the detent pawl. Place the detent spring (P8677FS) onto the pin making sure the spring ends have not been bent out of shape. The cross arm of the spring goes under the flat side of the narrow shaped point of the detent pawl. **See Illustration 2.**

Illustration 2



5. Assemble one end of the detent spacer bushing (P8642FS) into the hole on the side plate (P8621FS) and engage the rounded end of the pawl with the sprocket (P8624FS). **See Illustration 3.**

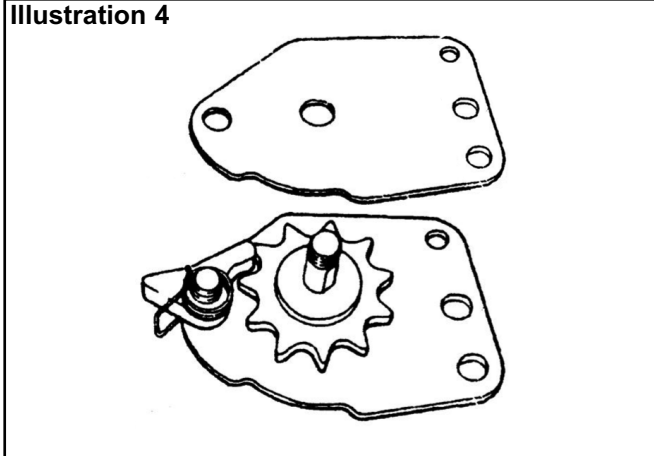
Illustration 3



8690 Series Disassembly and Assembly

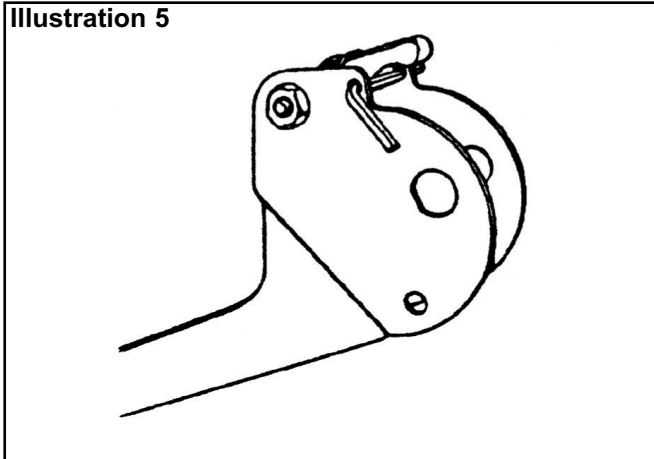
6. Match up the second side plate (P8621FS) with the first and place it over the detent spacer and pivot bolt. Do not insert the spring ends into the plates at this point. **See Illustration 4.**

Illustration 4



7. Hold the left handle (P8606FH or P8606TN) in a vise with the drive pawl facing up and the handle pointing to your left. Pull the drive pawl up, moving counter clockwise, and insert a 1/8" rod or nail through the small holes in the plates near the drive pawl to hold it in a horizontal position. **See Illustration 5.**

Illustration 5

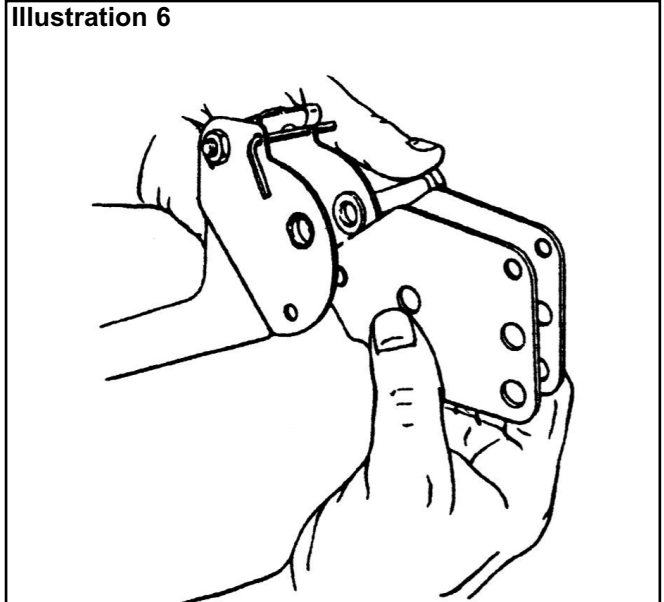


8. Place a small amount of grease on each of the two crank plate bushings (P8646FS) at the shoulder and insert them into the pivot bolt hole with the shoulders on the inside. The grease will hold them in position.

9. Hold the side plate assembly firmly with the notched edges of the plate facing down. While holding tightly between your fingers, remove the pivot bolt.

10. Carefully insert the plate assembly into the left handle between the bushings (P8646FS). Align the pivot bolt holes and slide the pivot bolt into position from the far side of the handle. **See Illustration 6.**

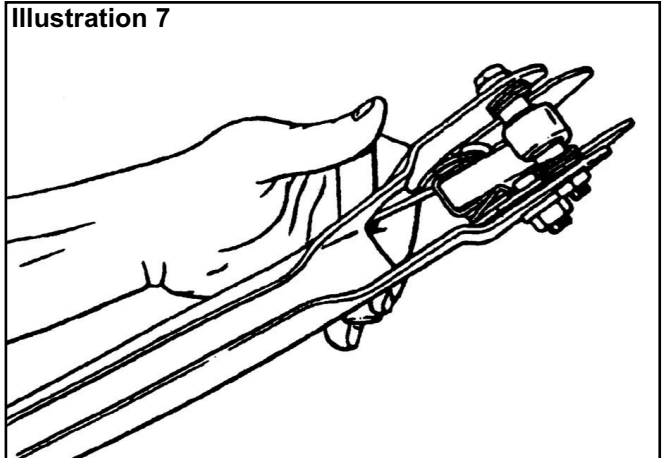
Illustration 6



11. Assemble spacer (P8644FS) and nut (P2666K) to the pivot bolt and tighten up snug. *Note: This assembly must pivot freely.*

12. With a small hook tool, reach up from the bottom of the assembly, between the plates, and hook the ends of the detent spring into their respective holes. **See Illustration 7.** Make sure the spring loops are not caught between the pin and side plate.

Illustration 7



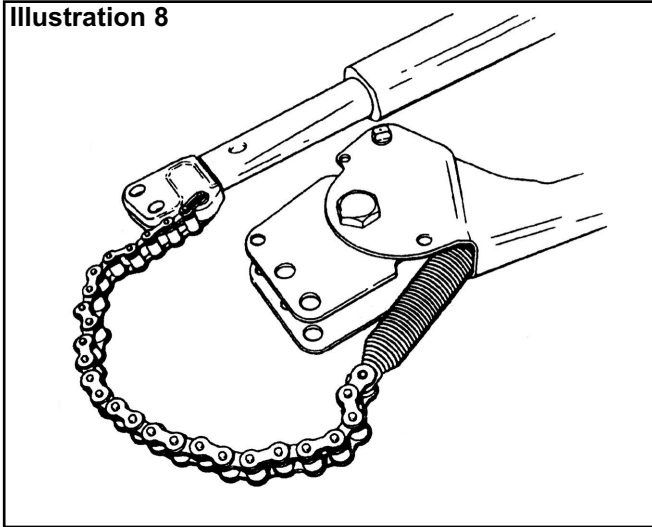
13. Remove the 1/8" pin from under the pawl and engage the drive pawl with the sprocket (P8624FS).

14. Remove the handle from the vise.

15. Hook the longer loop on the chain spring (P8678FS) onto the free end of the chain (P8653FS). Lay the left and right handles on the bench with the drive pawl on the left handle and the chain on the right handle facing each other. Feed the spring on the chain over the sprocket and into the left handle. **See Illustration 8.**

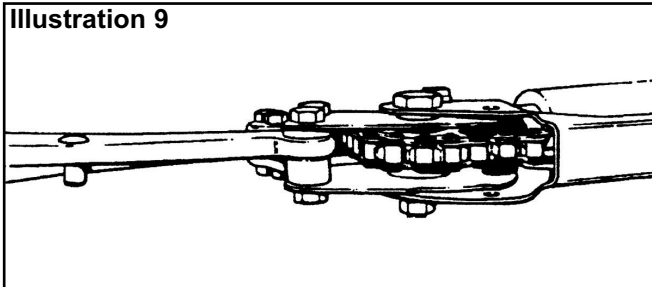
8690 Series Disassembly and Assembly

Illustration 8



16. With the handles remaining in this position, assemble the cutting head to the left handle. The thicker washer (P8645FS) goes on the bottom between the handle and the jaw. The thinner washer (P8644FS) goes on top. **See Illustration 9.** Use the longer bolt (P8628FS) and nut (P2666K) and tighten securely.

Illustration 9



17. Assemble the other side of the head to the right handle using bolts (P0135SK) and nut (P2666K). Tighten securely.

18. Hook the open end of the closing spring (P8658FH) into the holes in the handle (P8606FH or P8606TN). Make sure the closed loops are against the side plates (P8621FS).

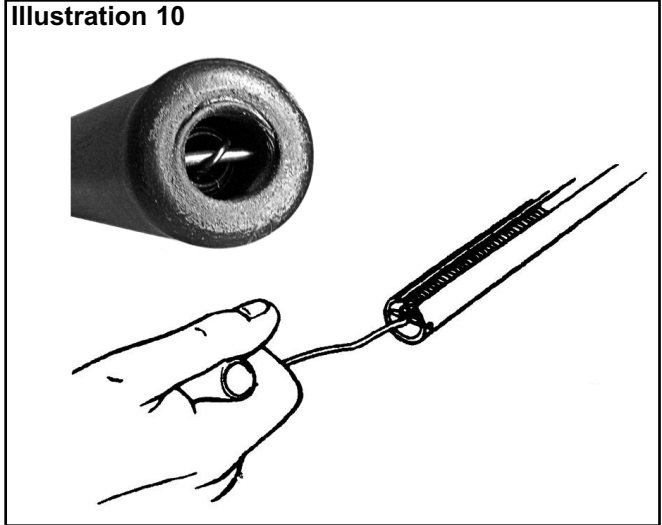
19. Insert bolt (P8634FS) through the closed loop on one of the springs (P8658FH) and insert through the 1/4" hole in the side plate (P8621FS). At the same time assemble the snubber (P8654FS) and slide the bolt through the snubber.

20. Assemble the other spring (P8658FH) onto the bolt and secure with nut.

21. Tighten the nut approximately one thread beyond the end of the bolt.

22. **FH, FSK, CK, and CS models:** Using a hook type tool, insert the tool through the access hole in the end of the handle grip. Secure the spring (P8678FS) and pull it towards the opening, rotating slightly to allow the spring to clear the pin. Hook the chain spring over the pin. See Illustration 10.

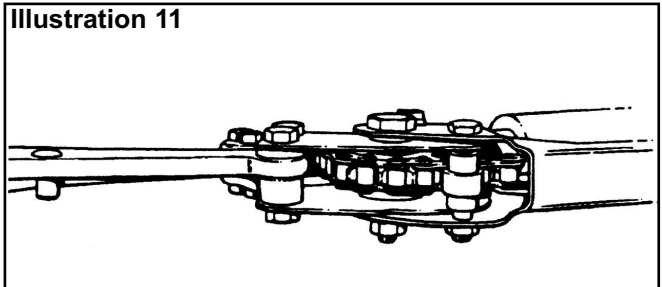
Illustration 10



22a. **TN model:** Hook the chain spring (P8678FS) and pull the spring to near bottom of the handle and attach the spring extension (P8679TN) to the chain at one end and the handle pin at the other end.

23. Assemble snubber (P8654FS) and bolt (P8635FS) to the handle. Assemble nut (T3171) and tighten so as not to bind the assembly. **See Illustration 11.**

Illustration 11



24. **FH, FSK, CK and CS models:** Check operation of the tool by opening and closing.

24a. **TN model:** Check operation of the tool by opening and closing. If operation is satisfactory, assemble a new grip (P0380M) onto handle.

8690 Series Disassembly and Assembly

Note: In the event the handle grip (P8681FH) was removed and a new handle grip (P8680CK) with an access hole in the bottom is being installed, perform the following procedure to install the new handle grip.

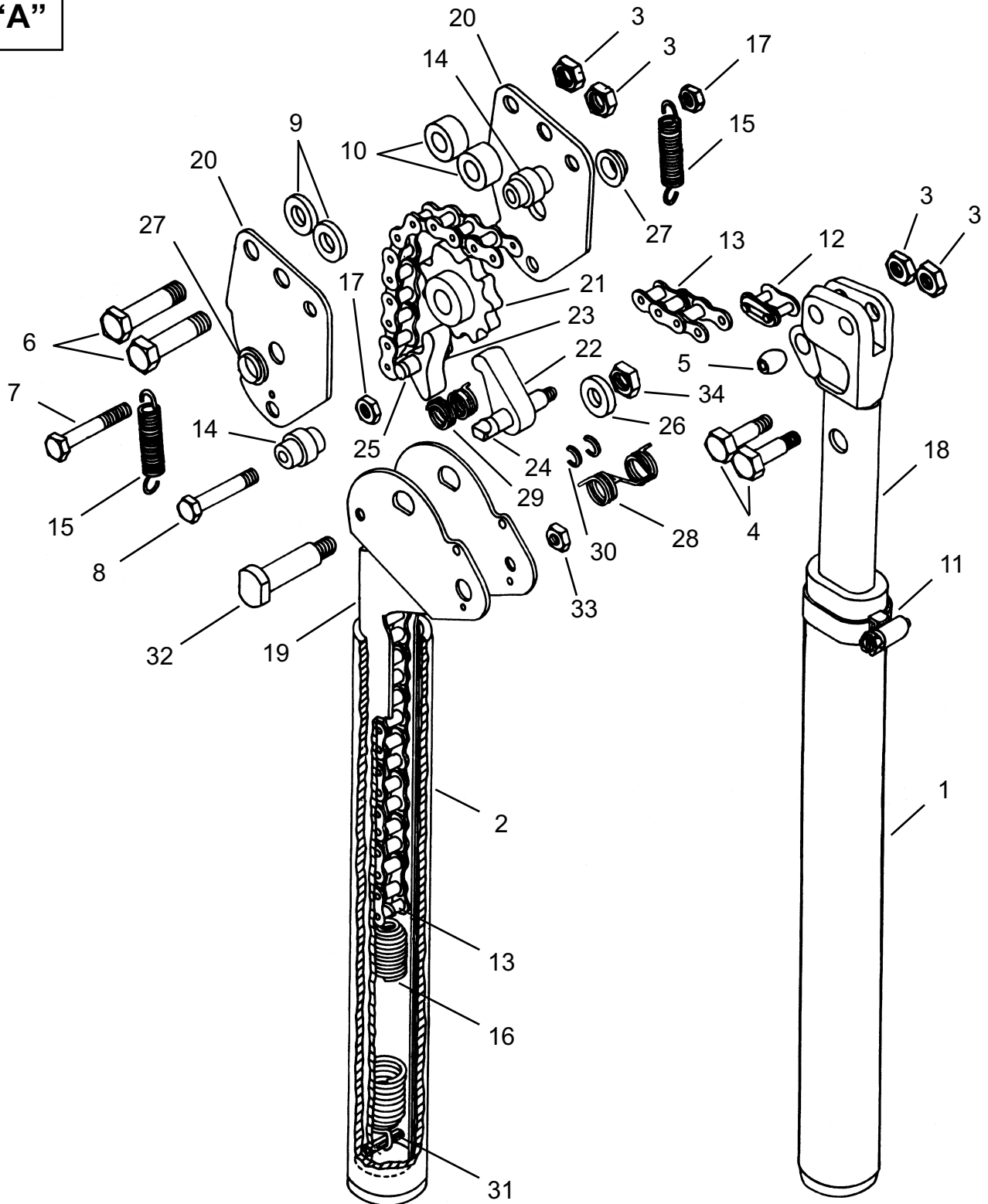
a) Mix a mild solution of liquid dishwashing soap and water in a small cup. A mild rubber or plastic lubricant may be used as an alternative. However, it must be one that evaporates (dries completely) to avoid handle grip slippage prior to use of the tool.

b) Place a mat or similar protective device on the floor to prevent damage to the tool or floor. Place the tool vertically, head end down, onto the mat with the handle straight up. Thoroughly wet the exterior of the metal handle, where the grip will be installed, with the soapy solution or lubricant. Thoroughly wet the inside of the handle grip as well with the same solution. Quickly slide the handle grip on as far as you can push by hand. Using a soft-faced rubber mallet, continue installing the handle grip until it bottoms out on the handle.

CAUTION: Use care not to damage the handle grip, with the mallet, during assembly.

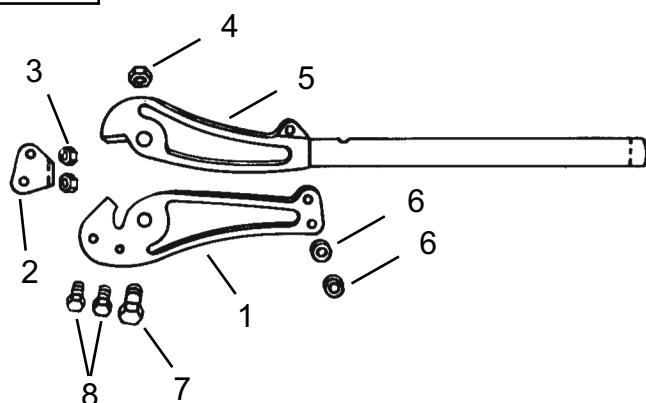
c) Make certain the handle grip is fully assembled onto the handle. Allow the tool assembly to dry prior to use to avoid slippage. A clamp is not required to secure the handle grip to the handle.

"A"

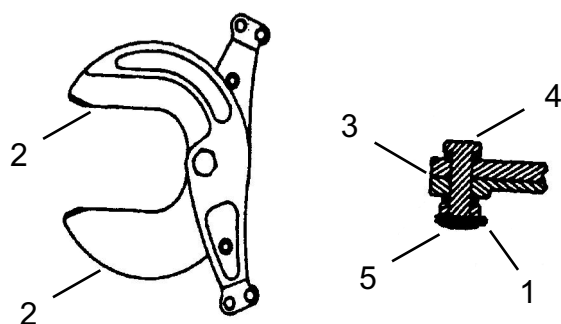


8690 series Handle Assembly

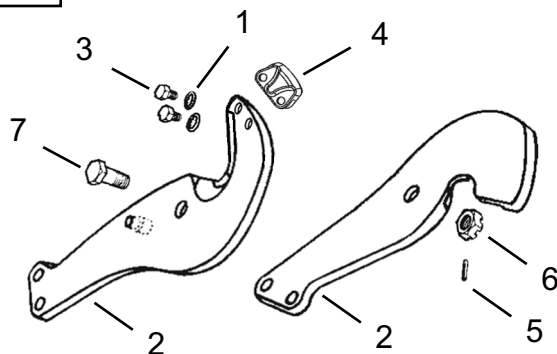
Illustration "A": 8690 Series Ratchet Type Cutters Handle Assembly							
Ref	Qty	Model Number					Description
		8690CK	8690CS	8690FH	8690FSK	8690TN	
		Overall Length					
		28" (711 mm)	29.75" (756 mm)	29.25" (743 mm)	27.5" (699 mm)	36" 914 mm)	
		Part Number					
1	1	P8681FH	P8681FH	P8681FH	P8681FH	Illustration "G"	Handle Grip
2	1	P8680CK	P8680CK	P8680CK	P8680CK	Illustration "G"	Handle Grip
3	4	P2666K	P2666K	P2666K	P2666K	P2666K	Nut (8690CK: Qty. = 2)
4	2	-----	P0135SK	P0135SK	P0135CK	P0135SK	Bolt (Hex Head)
5	1	P8719CS	P8719CS	P8719CS	P8719CS	P8719CS	Bushing
6	2	P8628FS	P8628FS	P8628FS	P8628FS	P8628FS	Bolt (Hex Head)
7	1	P8634FS	P8634FS	P8634FS	P8634FS	P8634FS	Bolt
8	1	P8635FS	P8635FS	P8635FS	P8635FS	P8635FS	Bolt
9	2	-----	P8644FS	P8644FS	P8644FS	P8644FS	Spacer
10	2	-----	P8645FS	P8645FS	P8645FS	P8645FS	Spacer
11	1	P8648FS	-----	-----	-----	-----	Clamp
12	1	P8652FS	P8652FS	P8652FS	P8652FS	P8652FS	Chain Link
13	1	P8653FS	P8653FS	P8653FS	P8653FS	P8653TN	Chain
14	2	P8654FS	P8654FS	P8654FS	P8654FS	P8654FS	Snubber
15	2	P8658FH	P8658FH	P8658FH	P8658FH	P8658FH	Spring
16	1	P8678FS	P8678FS	P8678FS	P8678FS	P8678FS	Spring
17	2	T3171	T3171	T3171	T3171	T3171	Nut
18	1	Illustration "B"	P8605F	P8605F	P8605F	Illustration "G"	Handle (Right)
--	--	P8661FH	P8661FH	P8661FH	P8661FH	P8661TN	Handle Assembly (Includes 18 - 33)
19	1	P8606FH	P8606FH	P8606FH	P8606FH	Illustration "G"	Handle (Left)
20	2	P8621FS	P8621FS	P8621FS	P8621FS	P8621FS	Side Plate
21	1	P8624FS	P8624FS	P8624FS	P8624FS	P8624FS	Sprocket
22	1	P8636FS	P8636FS	P8636FS	P8636FS	P8636FS	Pawl
23	1	P8637FS	P8637FS	P8637FS	P8637FS	P8637FS	Pawl
24	1	P8641FH	P8641FH	P8641FH	P8641FH	P8641FH	Pin
25	1	P8642FS	P8642FS	P8642FS	P8642FS	P8642FS	Bushing
26	1	P8644FS	P8644FS	P8644FS	P8644FS	P8644FS	Spacer
27	2	P8646FS	P8646FS	P8646FS	P8646FS	P8646FS	Bushing
28	1	P8674FS	P8674FS	P8674FS	P8674FS	P8674FS	Spring
29	1	P8677FS	P8677FS	P8677FS	P8677FS	P8677FS	Spring
30	2	P8683FH	P8683FH	P8683FH	P8683FH	P8683FH	Retainer
31	1	P8685FH	P8685FH	P8685FH	P8685FH	P8685FH	Pin
32	1	P8692FS	P8692FS	P8692FS	P8692FS	P8692FS	Bolt
33	1	T3171	T3171	T3171	T3171	T3171	Nut
34	1	P2666K	P2666K	P2666K	P2666K	P2666K	Nut
--	--	Illustration "B"	Illustration "C"	Illustration "D"	Illustration "E"	Illustration "F"	Cutter Head Assembly

"B"**8613CK Cutterhead****Illustration "B": 8613CK Cutterhead**

Ref	Qty	Part No.	Description
1	2	P8620CK	Cheek
2	1	P8611CK	Blade
3	2	P2666K	Nut
4	1	P6466	Pivot Bolt Nut
5	1	P8610CK	Blade and Handle Assembly
6	2	P8643CK	Spacer
7	1	P8692CK	Pivot Bolt
8	2	P0135CK	Bolt

"C"**8613CS Cutterhead****Illustration "C": 8613CS Cutterhead**

Ref	Qty	Part No.	Description
1	1	P1747CN	Cotter Pin
2	2	P8610CS	Blade
3	2	P8779CS	Spring Washer
4	1	P8992CN	Pivot Bolt
5	1	P8993CN	Pivot Bolt Nut

"D"**8613FH Cutterhead****Illustration "D": 8613FH Cutterhead**

Ref	Qty	Part No.	Description
1	2	P0052GCW	Lockwasher
2	2	P8611FH	Blade
3	2	P8627FH	Bolt
4	1	P8650FH	Keeper Assembly
5	1	P1487WM	Dowel Pin
6	1	P2693G	Pivot Bolt Nut
7	1	P8666FH	Pivot Bolt

“E”

8613FSK Cutterhead

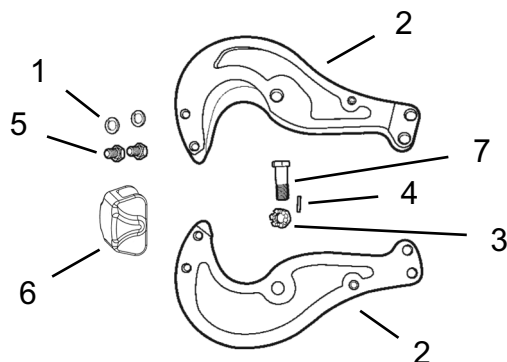


Illustration "E": 8613FSK Cutterhead

Ref	Qty	Part No.	Description
1	2	P0052GCW	Lockwasher
2	2	P8610FSK	Blade
3	1	P0193TQ	Pivot Bolt Nut
4	1	P0194TQ	Cotter Pin
5	2	P8627FH	Bolt
6	1	P8650FSK	Keeper Assembly
7	1	P8666FSK	Pivot Bolt

“F”

8613TN Cutterhead

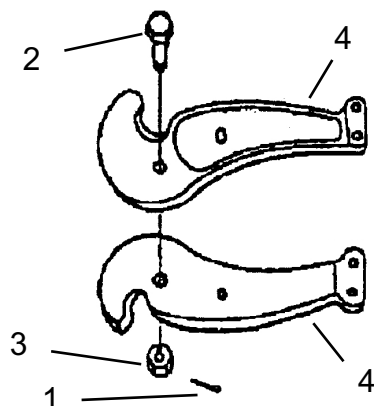


Illustration "F": 8613TN Cutterhead

Ref	Qty	Part No.	Description
1	1	P1747CN	Cotter Pin
2	1	P7192Q	Pivot Bolt
3	1	P8993CN	Pivot Bolt Nut
4	2	P8610TN	Blade

“G”

Model 8690TN Handle

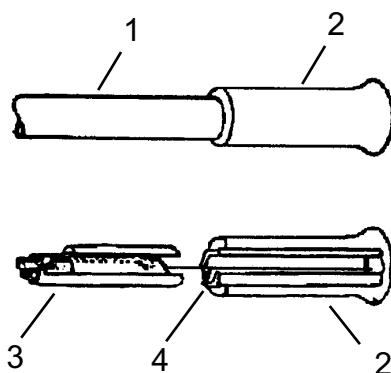


Illustration "G": Model 8690TN Handle

Ref	Qty	Part No.	Description
1	1	P8605TN	Handle (Right)
2	2	P0380M	Grip
3	1	P8606TN	Handle (Left)
4	1	P8679TN	Spring Extension
5	1	P8682TN	Black Sleeve (not shown)

Sales & Service Centers

Note: All locations may not service all products. Please contact the nearest Sales & Service Center for the appropriate facility to handle your service requirements.

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COOPER Tools

Tips to Easier, Safer Cutting

- a. When heavy cutting is involved, it is less strenuous to hold one handle of the tool on the ground using foot pressure. This permits the cutting force to be applied to the upper handle, makes the cutting position less awkward, and utilizes body weight. This allows more power to be transferred to the cutting edges.
- b. Use the correct cutting tool for the type, size, and hardness of the metal to be cut.
- c. Keep cutter jaws at right angles to piece being cut. Cutting diagonally may twist jaws.
- d. Do not twist or pry with tool while cutting.
- e. Do not exceed the full cut on a material whose hardness is unknown. Test hardness with slow pressure to see if material is being cut. The size of the metal you are cutting is not as important as its hardness.
- f. Do not exceed the cutter capacity that is marked on the jaw of the tool or its rating capacity in this catalog.
- g. Keep jaw bolts tight and joints oiled at all times.
- h. Maintain the original jaw bevel angles when sharpening out of line or chip cutting edges.



Safety Do's and Dont's

Wear your gloves and safety glasses at all times!

Do wear safety shoes.

Do remove oil or grease from your hands, from tools and from the floor and area where you will be working.

Do remember that metal flies when cut. The harder the metal, the farther it will fly.

Do warn those in the area when you intend to use a cutter and protect your fellow workers from flying metal.

Do use all tools as recommended.

Don't attempt to use a cutting tool, hand or power, until you fully understand its use.

Don't forget that metals may fly and cause injury.

Don't use cutters for any application except those listed in this catalog.

Don't use H.K. Porter cutters on energized circuits, wire, or cable.

Safety Precautions



Indicates a high probability that death, severe bodily injury or major property damage could result.



Hard metals may snap off or fly through the air when cut. Always wear safety glasses and warn workers nearby to prevent them from being injured from flying metal. To prevent injury from flying metal, take precautions such as wrapping a cloth or rag around the cutting jaws so metal pieces can not fly.



Is serious but less inevitable. There is some probability that death, severe bodily injury or property damage could result.



The "Safety Alert Symbol" symbol to the left is used to call attention to instructions concerning personal safety. Watch for this symbol, it points out important safety precautions. It means: "ATTENTION! Stay alert, personal safety may be in danger!" Read the message that follows this symbol and be alert to the possibility of personal injury or death resulting from misuse.

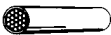
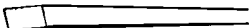
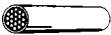
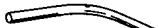
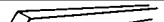
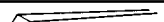
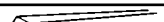


Is less serious but still demands attention. Indicates a hazard which may result in minor injury or property damage.

The use of any industrial tool may present hazards which can result in serious injury or death. The H.K.Porter® tools listed in this catalog are not exceptions to this rule.

READ AND UNDERSTAND ALL DIRECTIONS BEFORE OPERATING ANY H.K. PORTER® MANUAL, HYDRAULIC OR PNEUMATIC TOOL

Cutter Selection

 BARS, FLAT	 CABLE, PRESTRESSED	 NUT SPLITTING	 WIRE, FENCE
 BARS, ROUND	 CABLE, RUBBER COVERED	 PADLOCK HASPS	 WIRE, GUY
 BARS, SQUARE	 CABLE, SOFT, LARGE	 PIPE, PVC	 WIRE, HOT
 BOLTS, RODS, SCREWS, RIVETS	 CABLE, STEEL	 PLASTIC, FIBER	 WIRE, COPPER
 CABLE (ACAR)	 CHAIN	 ROD REINFORCING	 WIRE, MESH
 CABLE (ACSR)	 CHAIN, HARD ALLOY	 ROD STRAIGHTENER	 WIRE ROPE
 CABLE, ALUMINUM	 EHS GUY STRAND	 STRAPPING STEEL	 WIRE SHELIVING
 CABLE COMMUNICATIONS	 METALS, HARD	 TIRE CHAINS	 WIRE, SOLID
 CABLE, COPPER	 METALS, MEDIUM HARD	 TRUCK TIRE BEADS	 WIRE, SPRING
 CABLE, LEAD COVERED	 METALS, SOFT	 WIRE, BOX BINDING	 WIRE, STAINLESS STEEL
 CABLE, POWER	 NAILS, COTTER PINS	 WIRE, ELECTRIC	 WROUGHT IRON

1. What is the material to be cut?

(See above chart)

2. What size is the material to be cut?

Capacities of all hand-operated cutters are shown opposite each catalog listing. Power tool capacities are shown in the Power Tool Selector chart. Do not exceed listed capacities.

3. How hard is the material to be cut?

Many of the materials illustrated in the chart above are made in varying degrees of hardness. The maximum hardness ratings that each hand and power tool is designed to cut are shown under each tool in this catalog.

Extra Hard Metals:

Up to Brinell 455/Rockwell C48

Hard Metals:

Up to Brinell 400/Rockwell C42

Medium Hard Metals:

Up to Brinell 300/Rockwell C31

Soft Metals:

Up to Brinell 200/Rockwell C15

4. Will numerous or few cuts be made in a day?

The frequency of cuts to be made should be taken into consideration when choosing a cutter. HKP manufacturers inexpensive hand cutters for light-duty work, heavy-duty cutters for tougher jobs, and hydraulic and pneumatic cutters for extremely hard materials and production cutting.

5. Is speed a factor in the cutting?

Choose the proper cutter to fit the job requirements, whether an occasional cut is called for or fast, continuous, industrial production cutting.

Still not sure?

Send material samples to:

Cooper Hand Tools - Sumter Plant

Industrial Park

Sumter, SC 29154

Attn: HKP Test Material

NOTE: PROVIDE ANSWERS TO AS MANY OF THE QUESTIONS AS POSSIBLE.



WARNING

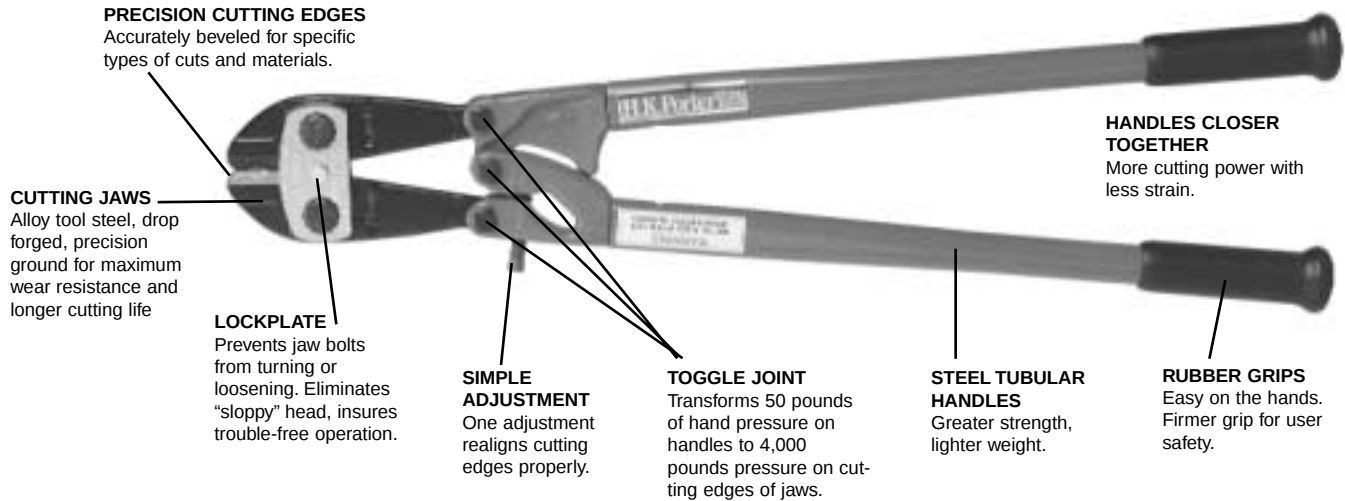
- Always wear safety glasses/goggles when cutting.
- Cut in a safe area; consider the safety of others in the immediate area.
- The harder the material being cut, the likelier it is to become airborne during cutting.
- Use tools correctly! (Refer to "Engineering Information" section of this catalog)
- Use the correct tool for the work being performed.
- Maintain tools, power supplies, and hoses in safe working condition.



DANGER

Never use any H.K. Porter cutters on energized circuits, wire, or cable.

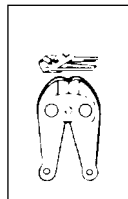
Quality Features of H.K. Porter® Cutters



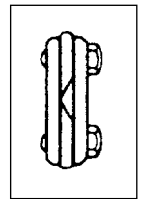
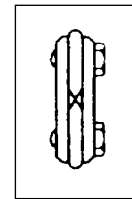
Jaw Designs

There are four basic jaw designs. They are engineered to give long, trouble-free life and the most efficient cutting of the materials which they are designed to cut.

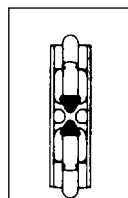
- 1 ANGULAR JAWS**
30° offset jaws have clipper-cut blades, designed for cutting close or flush to a surface. Cuts soft or medium-hard material.



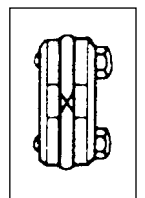
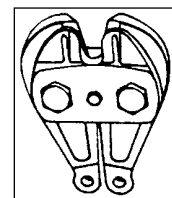
- 2 ALL-PURPOSE JAWS**
Can have center-cut or clipper-cut blades used for broad cutting applications.



- 3 SHORT-NOSED JAWS**
Center-cut, carbide-tipped blades for cutting hard- and non-alloy chains and padlock hasps.



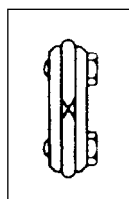
- 4 HEAVY-DUTY STRAP JAWS**
Straps keep the cutting edges aligned under the most demanding applications.



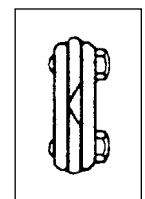
Cutting Blades

Four different cutting blade styles are available for specific types or broad ranges of cutting applications.

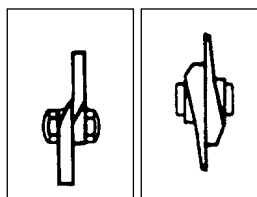
- 1 CENTER-CUT BLADES**
Slightly rounded cutting edges, beveled on both sides, broaden cutting applications.



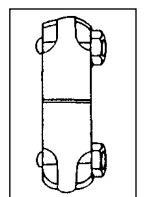
- 2 CLIPPER-CUT BLADES**
Blades are beveled on only one side for smooth flush cuts that are close to workpiece.



- 3 SHEAR-CUT BLADES**
Designed to cut coarse- or fine-strand cable with minimal strand distortion.



- 4 END-CUT BLADES**
Blades are at right angles to handles for easier handling and "head-on" close cutting of materials.



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! DANGER

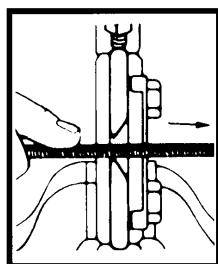
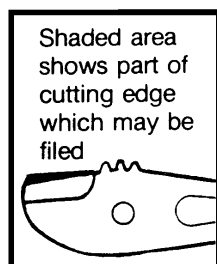
Ordering Replacement Parts

Order replacement parts through your Cooper Tools Distributor. Care should be taken to give accurate information regarding part numbers and descriptions. Include model numbers and serial numbers, as well. Although all parts are available at the factory, we suggest customers stock spare blades, seals, filters and oil for minimum delay in maintaining their units.

Factory Repair Service

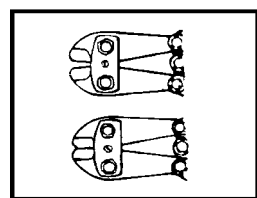
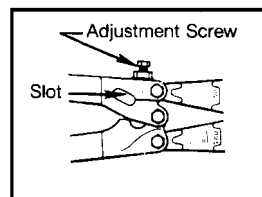
HKP units may be returned to factory for repair and reconditioning at any time. A free inspection and estimate of repair charges will be supplied if requested. All returns must be made by prepaid transportation.

How to Sharpen Cutter Jaws



- Remove nicks in jaws by filing straight across cutting edges
- On jaws with equal bevels, file equally from each bevel, keep file flat against bevel
- On jaws with one large bevel, file on that bevel, small bevel must also be restored
- Jaws should not be razor sharp
- Approximately 1/64" (.4mm) should remain flat to form strong, durable edge
- Adjust tool according to the instructions below
- To sharpen shear-cut blades (blades that pass each other like scissors) remove nicks by filing straight across cutting edges
- Finish by running a flat file over inner jaw surface to remove burrs

How to Adjust the Cutter Jaws



- An adjustment screw is located on the cutter handle above the toggle joints
- If jaw edges are too far apart with handles closed, tighten adjusting screw, this brings cutting edges together
- Cutting edges should be 1/64" (.4mm) apart for longest jaw life
- Oil all joints
- If jaw edges are too close together with the handles apart, loosen adjusting screw until it disappears from the narrow slot in the handle
- Make a cut with the tool in this position (cut will force the slot inward)
- Try to close the handles. If they do not close completely and jaw edges are 1/64" (.4mm) apart, tighten adjusting screw to meet the handle on far side of slot
- Oil all joints
- If jaws are too far apart with handles closed after making cut with adjusting screw backed off, tighten adjusting screw as explained above
- To sharpen shear-cut blades (blades that pass each other, like scissors), remove nicks by filing straight across the cutting edges
- Finish by running a flat file over inner blade surface to remove burrs.

Nicholson® File Recommendations

For Jaw Type	Use File Type
Straight	6", 8" or 10" Mill Bastard
Curved	8", 10" or 12" Half Round Bastard
Straight w/Notch	8", 10" Mill Bastard with one round edge
Notched	8" or 10" Round Bastard

- Choose file size according to size of jaw and/or radius of curve
- Half round files are the most versatile



DANGER

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