

# Encore Hartco **Eclipser 2000** Pneumatic Clinch Clip Closure Tool

## with Hanger & Safety Guard options

## OPERATING MANUAL

*It is the employer's responsibility to assure this manual is read and understood by all personnel assigned to use this tool, and manual is kept on hand for future reference.*



**Black Housing**  
HR2000 Series



**Green Housing**  
EA2000 Series



**Red Housing**  
SN2000 Series



"T" MODEL      STANDARD

**"T" (Thin) Models  
for Trap & Cage  
Assembly**

### **SAFETY WARNING**



READ THE ENTIRE MANUAL  
BEFORE OPERATING THE TOOL.



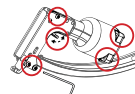
SAFETY GLASSES (ANSI A87)  
should always be worn by all in  
the work area while operating,  
maintaining or repairing a  
tool. Wear personal protective  
equipment as required.



NEVER use oxygen, carbon  
dioxide or any other bottled gas  
as a power source for this tool, as  
it will explode and cause serious  
injury.



BEFORE using tool, check work  
area for hidden electric cables,  
utility lines, gas pipes, etc. that  
can cause a hazard if damaged  
by the tool.



INSPECT TOOL BEFORE  
EACH USE. Make sure bolts  
and cap screws are tight and  
trigger moves freely.

Never use a tool that leaks air, has missing parts,  
is damaged, or needs repair.

Do not modify this tool without consulting with  
an ENCORE HARTCO tool specialist first.

Use only parts, fasteners and accessories  
recommended and sold by ENCORE HARTCO and  
its authorized distributors.



### **TO PREVENT SERIOUS INJURY:**

- Do not use the tool when you are tired or  
under the influence of drugs, alcohol or  
medication.
- Remove all fasteners from tool BEFORE  
connecting air.

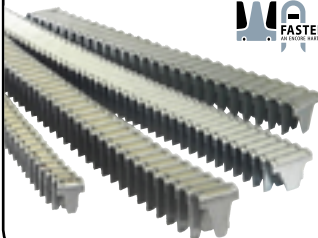


KEEP HANDS AND FINGERS  
AWAY FROM BLADE AND ANVIL  
AREA when connecting air  
supply and operating tool.

- DISCONNECT THE AIR SUPPLY when  
mechanically clearing a jam, performing  
maintenance or repairs, and whenever the  
tool is not in use.
- NEVER POINT THE TOOL TOWARD YOURSELF  
OR ANYONE ELSE.
- ALWAYS KEEP YOUR FINGER OFF THE  
TRIGGER unless actually applying a clip.  
Unintended pressure on trigger could cause  
tool to eject a fastener.

For best results, use genuine

- Encore Hartco E-Clips
- WA Fasteners Clinch Clips



**Optional  
Lexan  
Safety  
Guard**  
30090



**Optional  
Steel  
Safety  
Guard**  
30094



**Optional  
Hanger  
Assembly**  
30131



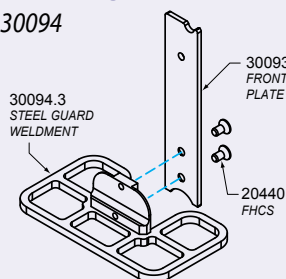
MADE IN THE U.S.A.

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Northbrook, IL 60062 U.S.A.  
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# Eclipser 2000 – Drawing of Tool and Options

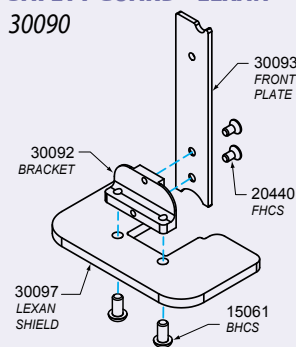
## SAFETY GUARD - STEEL

30094

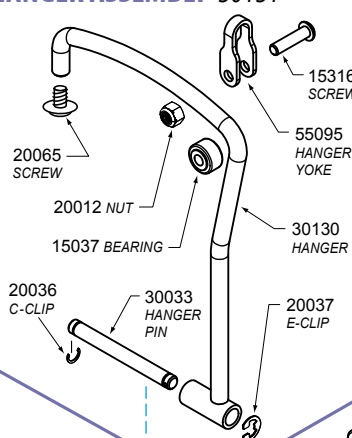


## SAFETY GUARD - LEXAN

30090

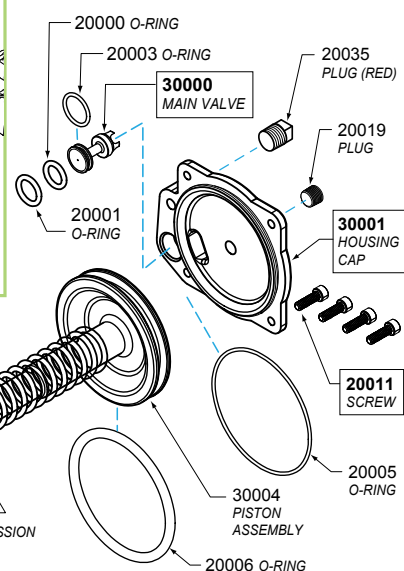
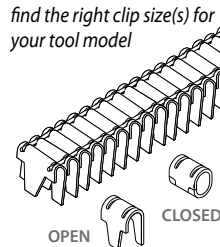


## HANGER ASSEMBLY 30131



## E-CLIPS/CLINCH CLIPS

Go to [encorehartco.com](http://encorehartco.com) to find the right clip size(s) for your tool model

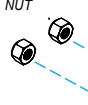


## MAGAZINE

SEE CHART ON NEXT PAGE

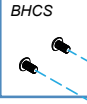
## Standard

20012 NUT



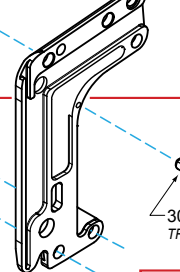
## Thin "T"

20347 BHCS



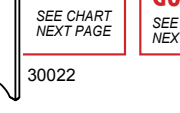
## SIDE PLATE - Right

SEE CHART



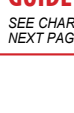
## FRONT PLATE

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## BLADE GUIDE

SEE CHART NEXT PAGE



## ANVIL

SEE CHART



MADE IN THE USA



[www.encorehartco.com](http://www.encorehartco.com)  
[info@encorehartco.com](mailto:info@encorehartco.com)  
 (224) 723-5524

Standard Models

Thin "T" Models

## PUSHER w/Latch

SEE CHART NEXT PAGE

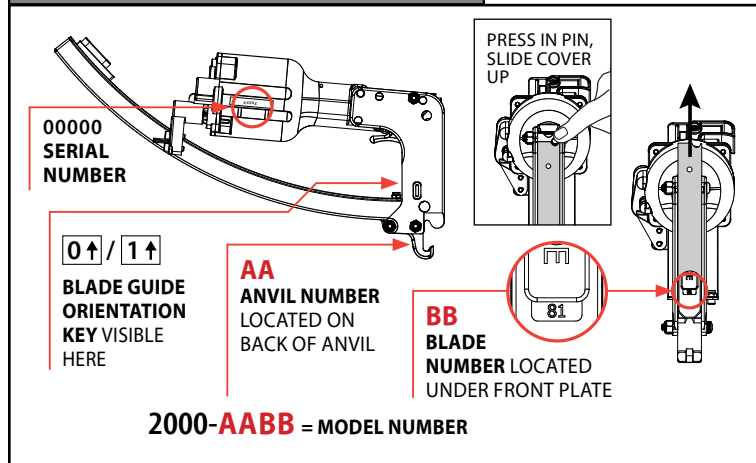


## TROUBLESHOOTING

| PROBLEM               | CAUSE                                    | SOLUTION                                                                 | PROBLEM              | CAUSE                   | SOLUTION                            |
|-----------------------|------------------------------------------|--------------------------------------------------------------------------|----------------------|-------------------------|-------------------------------------|
| Blade does not return | Sticky Main Valve                        | Lubricate Main Valve (#30000) and check that Main Valve moves            | Sluggish tool        | Dry Main Valve          | Lubricate Main Valve (#30000)       |
|                       | Dirty Main Valve                         | 1/32" hole must be clear                                                 | Tool not cycling     | Clogged Trigger Valve   | Clean Trigger Valve (#30008)        |
|                       | Loose Housing Cap Screw(s)               | Tighten all four Screws (#20011)                                         | Clips not feeding    | Obstruction in Magazine | Remove obstruction                  |
|                       | Clip jammed in tool                      | Disconnect air supply, remove clip                                       | Broken Pusher Spring |                         | Replace Pusher Spring (#30040)      |
| Clip jamming          | Clips loaded backwards into the Magazine | Reorient strip so that single ear of clip is facing toward clipping area | Loose clips          | Low air pressure        | Increase pressure to 80 psi         |
|                       |                                          |                                                                          |                      | Worn Blade or Anvil     | Replace worn part (Part #s on pg 3) |

# Eclipse 2000 – Specifications & Parts

## TOOL IDENTIFICATION



## SPECIFICATIONS

|                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------|
| <b>WEIGHT:</b> 4.4 lbs (2.0 kg)                                                                                                |
| <b>DIMENSIONS:</b> 16.5" x 7" x 4"<br>(419.1 x 177.8 x 101.6mm)                                                                |
| <b>COMPONENT MATERIALS:</b><br>Composite plastic housing and clip magazine                                                     |
| <b>CLIP FEEDING METHOD:</b><br>Constant force spring                                                                           |
| <b>PRIMARY POWER UNIT:</b><br>Main cylinder - Bore 3.06" (78mm) spring return                                                  |
| <b>AIR SUPPLY:</b> 80-90 psi (5.5-6.2 bars) of dry, lubricated air                                                             |
| <b>AIR CONSUMPTION (SCFM):</b><br>3.56, assuming 90 psi and 1 cycle per second<br>3.22, assuming 80 psi and 1 cycle per second |

## MODEL-SPECIFIC PARTS

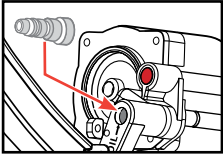
| Model #           | Anvil        | Blade        | Blade Guide<br>(Orientation key only on #30200) | Pusher w/Latch | Front Plate  | Magazine     | Nut & Screw<br>OR BHCS & Pin     | Side Plate<br>Right Left | Fits Clip Width |
|-------------------|--------------|--------------|-------------------------------------------------|----------------|--------------|--------------|----------------------------------|--------------------------|-----------------|
| 2000-1020         | 30210        | 30220        | 30202                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1020S        | 30210        | 30220        | 30203                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1022         | 30210        | 30222        | 30201                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1024         | 30210        | 30224        | 30208                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1121         | 30211        | 30221        | 30201                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1234         | 30212        | 30234        | 30254                                           | 30049          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1327         | 30213        | 30227        | 30307                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1423         | 30214        | 30223        | 30308                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1533         | 30215        | 30233        | 30255                                           | 30051          | 30056        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1926         | 30219        | 30226        | 30203                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-1929         | 30219        | 30229        | 30203                                           | 30051          | 30022        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-3236         | 30232        | 30236        | 30207                                           | 30031          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | E               |
| 2000-4050         | 30240        | 30250        | 30205                                           | 30030          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | F               |
| 2000-4139         | 30241        | 30239        | 30209                                           | 30031          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | E               |
| <b>2000-4151T</b> | <b>30241</b> | <b>30251</b> | <b>30205</b>                                    | <b>30035</b>   | <b>30022</b> | <b>38024</b> | <b>20347 &amp; 30041T</b><br>x 4 | <b>30012 30013</b>       | <b>F</b>        |
| <b>2000-4157T</b> | <b>30241</b> | <b>30257</b> | <b>30204</b>                                    | <b>30035</b>   | <b>30022</b> | <b>38060</b> | <b>20347 &amp; 30041T</b><br>x 2 | <b>30012 30013</b>       | <b>F</b>        |
| 2000-4339         | 30243        | 30239        | 30209                                           | 30031          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | E               |
| 2000-4528         | 30245        | 30228        | 30256                                           | 30051          | 30056        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-4631         | 30246        | 30231        | 30256                                           | 30051          | 30056        | 38050        | 20012 & 30023<br>x 2             | 30012 30013              | A               |
| 2000-6075         | 30260        | 30275        | 30200 0↑                                        | 30025          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| 2000-6080         | 30260        | 30280        | 30200 0↑                                        | 30025          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| 2000-6082         | 30260        | 30282        | 30200 0↑                                        | 30025          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| 2000-6181         | 30261        | 30281        | 30200 0↑                                        | 30025          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| <b>2000-6181T</b> | <b>30261</b> | <b>30281</b> | <b>30200 0↑</b>                                 | <b>30035</b>   | <b>30022</b> | <b>38024</b> | <b>20347 &amp; 30041T</b><br>x 2 | <b>30012 30013</b>       | <b>F, H</b>     |
| 2000-6183         | 30261        | 30283        | 30200 1↑                                        | 30025          | 30022        | 38060        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| <b>2000-6183T</b> | <b>30261</b> | <b>30283</b> | <b>30200 1↑</b>                                 | <b>30035</b>   | <b>30022</b> | <b>38060</b> | <b>20347 &amp; 30041T</b><br>x 2 | <b>30012 30013</b>       | <b>F, H</b>     |
| 2000-6185         | 30261        | 30285        | 30200 0↑                                        | 30025          | 30022        | 38024        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| <b>2000-6187T</b> | <b>30261</b> | <b>30287</b> | <b>30200 1↑</b>                                 | <b>30035</b>   | <b>30022</b> | <b>38060</b> | <b>20347 &amp; 30041T</b><br>x 2 | <b>30012 30013</b>       | <b>F, H</b>     |
| 2000-6189         | 30261        | 30289        | 30200-X 1↑                                      | 30025          | 30022        | 38060        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| <b>2000-6199T</b> | <b>30261</b> | <b>30299</b> | <b>30200-X 1↑</b>                               | <b>30035</b>   | <b>30022</b> | <b>38060</b> | <b>20347 &amp; 30041T</b><br>x 2 | <b>30012 30013</b>       | <b>F, H</b>     |
| 2000-6788         | 30267        | 30288        | 30206                                           | 30025          | 30022        | 38060        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| <b>2000-6791T</b> | <b>30267</b> | <b>30291</b> | <b>30206</b>                                    | <b>30035</b>   | <b>30022</b> | <b>38060</b> | <b>20347 &amp; 30041T</b><br>x 2 | <b>30012 30013</b>       | <b>F, H</b>     |
| 2000-6794         | 30267        | 30294        | 30302                                           | 30025          | 30022        | 38061        | 20012 & 30023<br>x 2             | 30012 30013              | F, H            |
| 2000-7174         | 30271        | 30274        | 30304                                           | 30039          | 30056        | 38062        | 20012 & 30023<br>x 2             | 30036 30037              | H               |
| 2000-7195         | 30271        | 30295        | 30304                                           | 30039          | 30056        | 38062        | 20012 & 30023<br>x 2             | 30036 30037              | H               |
| 2000-7196         | 30271        | 30296        | 30303                                           | 30039          | 30056        | 38062        | 20012 & 30023<br>x 2             | 30036 30037              | H               |
| 2000-7197         | 30271        | 30297        | 30302                                           | 30039          | 30056        | 38061        | 20012 & 30023<br>x 2             | 30036 30037              | H               |

## UNIVERSAL PARTS

| ITEM # | QTY | DESCRIPTION          |
|--------|-----|----------------------|
| 20000  | 1   | O-Ring               |
| 20001  | 1   | O-Ring               |
| 20003  | 1   | O-Ring               |
| 20004  | 1   | O-Ring               |
| 20005  | 1   | O-Ring               |
| 20006  | 1   | O-Ring               |
| 20007  | 1   | O-Ring               |
| 20009  | 1   | Dowel pin            |
| 20010  | 2   | Dowel pin            |
| 20011  | 6   | SHCS                 |
| 20012  | 1   | Nut                  |
| 20018  | 1   | Dowel pin            |
| 20019  | 1   | Plug                 |
| 20021  | 1   | Nut                  |
| 20034  | 2   | Screw                |
| 20036  | 1   | C-Clip               |
| 20035  | 1   | Plug (Red)           |
| 20038  | 1   | SHCS                 |
| 20519  | 1   | BHCS                 |
| 30000  | 1   | Valve                |
| 30001  | 1   | Cap                  |
| 30002  | 1   | Housing – GREEN (EA) |
| 35002  |     | Housing – RED (SN)   |
| 38002  |     | Housing – BLACK (HR) |
| 30004  | 1   | Piston assembly      |
| 30005  | 1   | Compression spring   |
| 30006  | 1   | Grooved pin          |
| 30007  | 1   | Spring               |
| 30008  | 1   | Trigger valve        |
| 30009  | 1   | Valve sleeve         |
| 30010  | 1   | Trigger lever        |
| 30011  | 1   | Trigger assembly     |
| 30012  | 1   | Side plate, Right    |
| 30013  | 1   | Side plate, Left     |
| 30014  | 1   | Top plate            |
| 30015  | 1   | Pin                  |
| 30016  | 1   | Spring               |
| 30017  | 1   | Yoke                 |
| 30018  | 1   | Roller               |
| 30019  | 2   | Link                 |
| 30020  | 1   | Pin, Roller          |
| 30021  | 1   | Pin, Blade           |
| 30029  | 1   | Pusher pull          |
| 30040  | 1   | Spring               |

## OPTIONAL ADD-ONS

| ITEM #                              | QTY | DESCRIPTION       |
|-------------------------------------|-----|-------------------|
| <b>30090 – Safety Guard - Lexan</b> |     |                   |
| 15061                               | 2   | BHCS -w-Patch     |
| 20440                               | 2   | FHCS              |
| 30091                               | 1   | Lexan Guard       |
| 30092                               | 1   | Bracket           |
| 30093                               | 1   | Front plate       |
| <b>30094 – Safety Guard - Steel</b> |     |                   |
| 20440                               | 2   | FHCS 10-32 x 3/8  |
| 30093                               | 1   | Front plate       |
| 30094.3                             | 1   | Steel guard       |
| <b>30131 – Hanger Assembly</b>      |     |                   |
| 15037                               | 1   | Bearing           |
| 15316                               | 1   | Screw             |
| 20012                               | 1   | Nut               |
| 20036                               | 1   | C-Clip            |
| 20037                               | 1   | E-Clip            |
| 20065                               | 1   | Flange head screw |
| 30033                               | 1   | Hanger pin        |
| 30130                               | 1   | Hanger            |
| 55095                               | 1   | Hanger Yoke       |



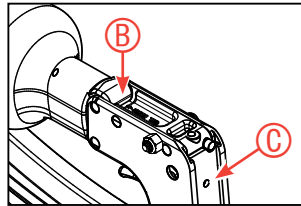
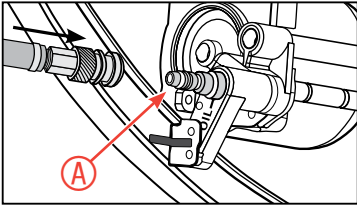
## TO GET STARTED

Install a 1/4" NPT fitting (not included) into air inlet opening in the back of the housing, using suitable thread sealant. **DO NOT REMOVE RED PLUG LOCATED ABOVE THIS OPENING.**

## RECOMMENDED DAILY MAINTENANCE

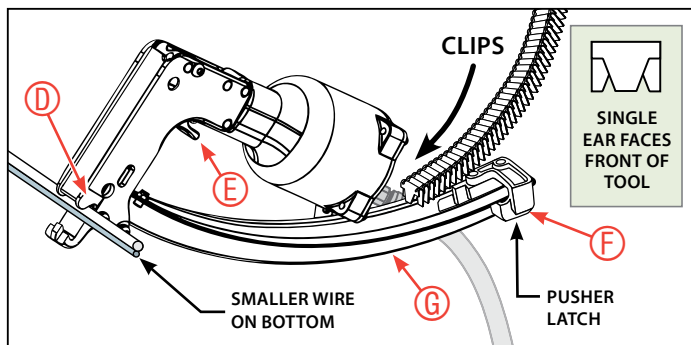
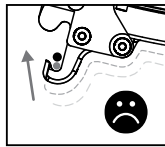
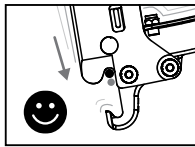
Add 2-3 drops of air tool oil (10-weight recommended) to air inlet hose fitting (A); and openings between the side plates at these two locations:

- in the gap at the back of the top plate and the housing (B)
- the opening on the front plate (C), as shown on affixed label



## TOOL OPERATION

1. With magazine empty, connect air supply to air inlet hose fitting (A), keeping fingers and hands away from blade and anvil area. Recommended air supply is 80-90 psi (5.5–6.2 bars) of dry, lubricated air. See "Specifications" on page 3 for Eclipser air consumption (SCFM).
2. Load clips into magazine, single "ear" facing front of tool.
3. Set wires to be fastened into side plate notches (D), guiding them into position by pushing DOWN with tool (see drawing below). For best results, larger wire should be set on top of smaller wire.
4. Squeeze trigger (E) to install clip.



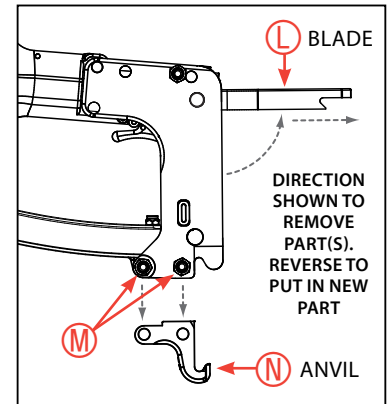
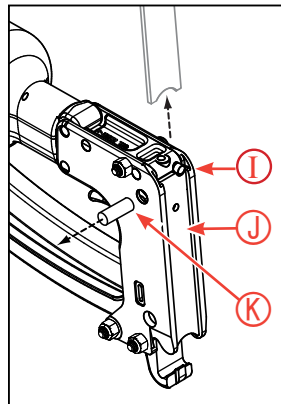
## LOADING CLIPS

1. Pull pusher (F) back until it latches at the end of magazine (G).
2. Remove strip of clips from box. Load entire strip into magazine with the single "ear" facing towards the front of the tool.
3. Secure clips in place by depressing pusher latch on underside of magazine.

## PARTS REPLACEMENT

### BLADE: DISCONNECT AIR. REMOVE CLIPS FROM TOOL.

1. Depress pin (I) at top of front plate (J); slide plate up and remove.
2. Swing blade (L) from tool and align link pin (K) with holes in both side plates. Remove pin through holes and take out old blade.
3. Lubricate new blade.
4. With new blade at 90° angle, align blade hole with links (Part #30019) and side plate holes on both sides. Insert link pin (K) through aligned holes to secure blade. Firmly strike blade face to swing back into original position.
5. Re-lubricate front plate. Depress pin (I) and slide front plate down until pin is released, securing plate in place.

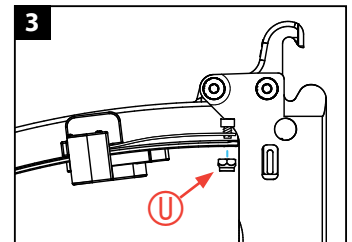
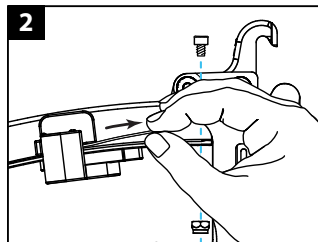
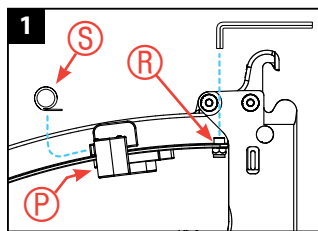


### ANVIL: DISCONNECT AIR. REMOVE CLIPS FROM TOOL.

1. Remove lower shoulder screws (M) or pins/BHCS's if tool is a "T" model.
2. Remove old anvil (N) and replace.

### PUSHER SPRING: DISCONNECT AIR. REMOVE CLIPS FROM TOOL. For better access, turn tool upside down.

1. Loosen screw (R) with a 9/64" hex key and remove damaged pusher spring from magazine. Insert new spring (S) into back of pusher (P).
2. Pull spring out from pusher with fingers or by using the screw. Align the spring hole with the magazine screw hole. Insert screw and secure with nut (U). Be careful not to deform spring.
3. Pull pusher back and latch at end of magazine.



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