

Tail Rotor Control Quill Tool

Dear Editor,

Holding the sprocket in place while removing and installing the control quill assembly on your Huey's tail rotor can be tough.

Paras 11-147.a. and 11-152.g. in TM 55-1520-210-23-2 say to hold the sprocket with a padded vise. But the sprocket can turn and come out of the vise. When that happens, the sprocket and control chain often get damaged.

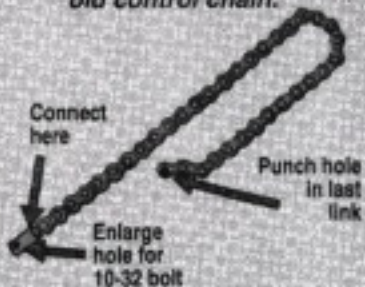
Luckily, the TM also says an "other suitable tool" can be used ... so we made one!

It looks like this:



Here's how we did it:

1. Just take 18 links of an old control chain.



2. Attach a handle. We used an old tin snip handle.

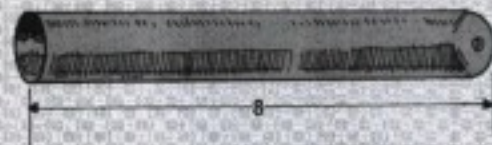


38

FEB 93

An alternate choice for the handle is common bar stock.

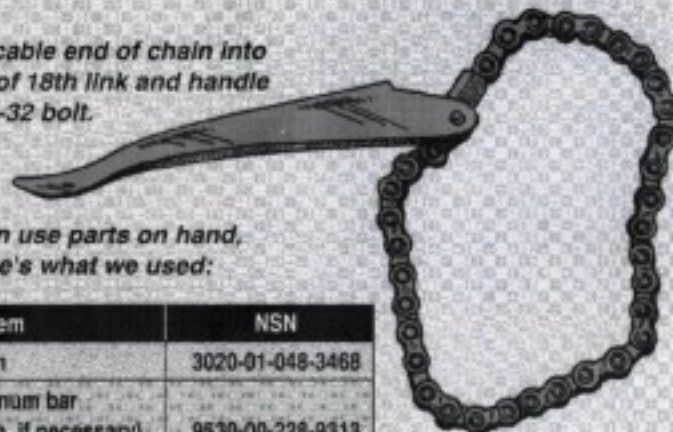
$\frac{3}{8}$ -in round, aluminum stock



3. Groove bar stock for chain link.



4. Install cable end of chain into center of 18th link and handle with 10-32 bolt.



5. You can use parts on hand, but here's what we used:

| Item | NSN |
|---|------------------|
| Roller chain | 3020-01-048-3468 |
| $\frac{3}{8}$ -in aluminum bar (for handle, if necessary) | 9530-00-226-9313 |
| Machine bolt | 5306-00-150-9083 |
| Self-locking nut | 5310-00-263-2662 |

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FROM THE DESK OF THE Editor
Looks like you've got a hold on that sprocket problem. Good job!

FEB 93

39