

NAP RING TOOLS AND RULES

ing of putting on and taking off snap pins, filter screens and-you name it. rings as a snap is just the time to rear a second think.

it's not doing its job. And its job is to of rings.

Just about the time you get to think- act as a retainer for bearings, seals,

When it's installed right, a snap ring back and give that lowly retainer ring makes a good positive lock in spots where there're no loads, or hardly any, It may be small, but it's important- working against the ring. However, same as a cotter pin. Maybe a damaged it's awful easy not to install one right snap ring won't cause any accidents all and that's good enough reason to go by its lonesome, but it sure can start over the whole business every now and things off in the wrong direction when then. So let's start with the two types

INTERNAL

TO INSTALL OR REMOVE, COMPRESS. **BUT JUST** ENDUGH TO CLEAR

An internal retainer, or snap ring is used to keep some part, such as a filter screen, from moving around inside a housing. So you install an internal ring by compressing it-but retaining groove inside the housing.

groove and housing cavity.

EXTERNAL



TO INSTALL OR REMOVE. EXPAND, BUT JUST ENDUGH TO FREE FROM GROOVE

An external type ring holds parts like shafts or pins from moving around in locations where you can't allow too much end play. It's put on by expanding the ring-but only enough to slip only enough to let you place it into the it over the outside of the shaft or part it's supposed to hold in place. As you Then, as you let up on the pressure, the let go of the pressure, the lugs of the ring will expand itself into the groove ring will ease toward each other until like it had a mind of its own. You also the ring seats itself in the groove. Comes remove it by compressing, but again- time to pull it out, expand the ring only enough to clear the ring from the only enough to free it from the groove.

PLIERS

Internal and external retaining ring pliers are the only-repeat only-types of tools to use on these rings. Sure! A substitute like a screwdriver, longnosed plier or punch may do the job. But the percentages on damaging the ring are big enough to keep it from seating properly or preventing it from being reused. So what have you gained?

Even when you pick up the right type pliers, you've still got to be sure it's the right size, since each size matches up with certain size snap rings. The range on snap rings is from 0.125 to 5.177 inches in diameter and the lug holes change with the different sizes, with straight tips. However, there're

If you check back over your Army Aircraft Organizational Maintenance tips and round jaws. So if you ever ABC Tool Kits, you'll see three ex- think a particular job calls for the ternal and four internal retaining ring other kind of tip or jaw, the correct pliers authorized for this reason. And way to ask is by using the rules set up every one of 'em has an adjustable stop by AR 725-50, after you locate the which you're supposed to use. The cor- right FSN in the 5120 Federal Stock rect adjustment keeps you from over- Class catalog.



expanding external rings and overcompressing internal rings. Taking time to adjust the stop is quicker than running back to the parts room for a new ring to replace the one you ruined.

Your issue pliers are all flat-jawed other retaining ring pliers with bent

