



MICHIGAN PNEUMATIC TOOL

Industrial Air Tools

EVEN THE TOUGHEST STEEL BREAKS DOWN.

Serving All Industries

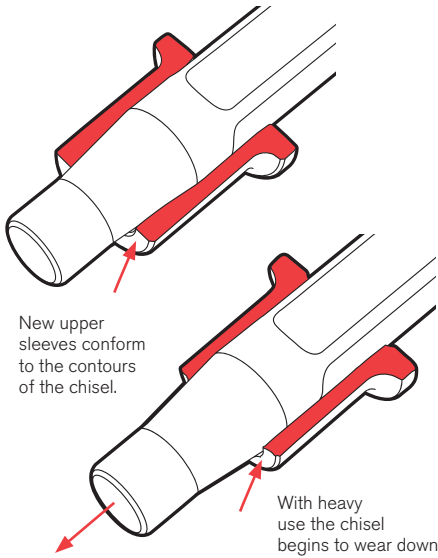
- Petro Chemical
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SLEEVE WEAR, OVER TIME.

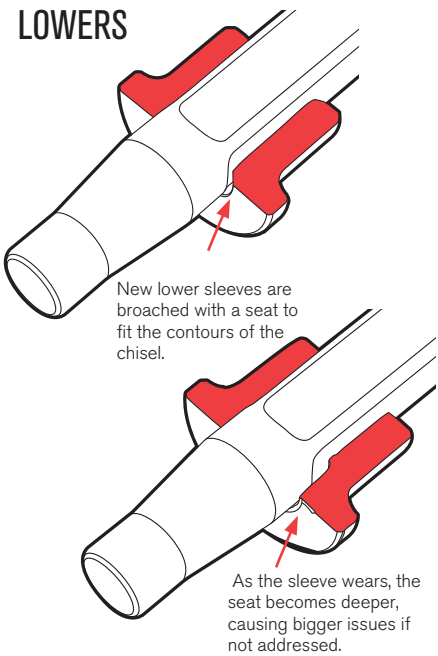
UPPER SLEEVES



New upper sleeves conform to the contours of the chisel.

UPPERS

LOWERS



New lower sleeves are broached with a seat to fit the contours of the chisel.

As the sleeve wears, the seat becomes deeper, causing bigger issues if not addressed.

NEW



MODERATE WEAR
Taper Intact



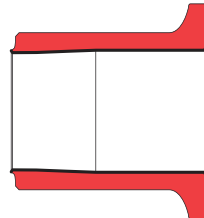
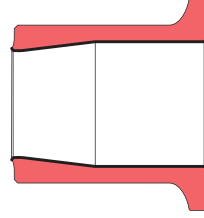
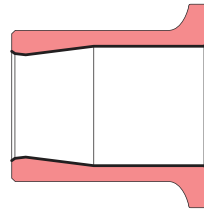
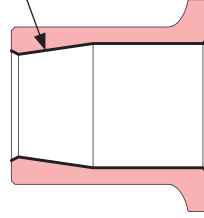
SIGNIFICANT WEAR
Slight Deformation of Taper



EXTREME WEAR
Taper Almost Unrecognizable



Taper



Approx.
1-1/16"



Approx.
1-5/16"



Approx.
1-5/8"



Approx.
1-7/8"

◇ Actual

RUBBER BUMPER WEAR.

Often overlooked and underestimated is the rubber and or poly bumper. These bumpers are designed to support the lower sleeve and absorb the shock of the chisel striking the lower sleeve and to prevent the lower sleeve from striking the retainer. **The bumper is the least costly item to be replaced and should be inspected daily & replaced as needed.** When the rubber bumper wears out, the **combined mass** of the chisel & lower sleeve strikes the retainer. Then the piston begins to strike the piston retainer, potentially not striking the chisel evenly. This inconsistency causes fracturing and excessive retainer component breakage.

NO WEAR
Bumper With No Sign of Wear



MODERATE WEAR
Bumper Beginning to Deteriorate



SIGNIFICANT WEAR
Bumper Fully Deformed

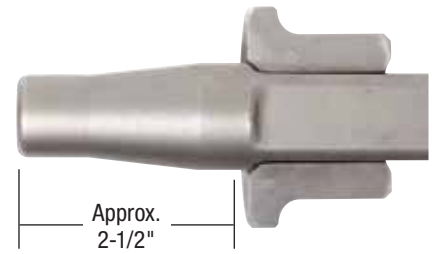
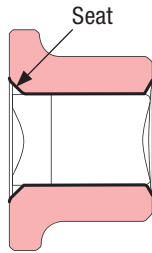


A combination of many parts come together to make up a complete rivet buster demolition tool. Over time the repeated force of the piston blows causes the sleeve components to wear in the nose of the rivet buster. Please use this guide as a tool to assist you in recognizing wear patterns and trends on your job site.

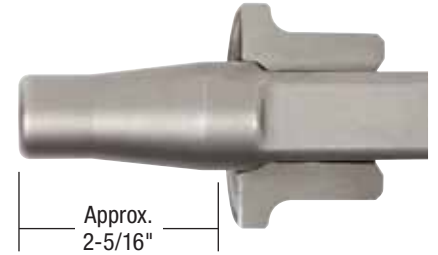
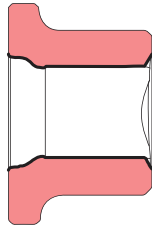
Remember: All sleeves, bumpers, springs and chisels are consumable items and must be replaced regularly. ▼

LOWER SLEEVES

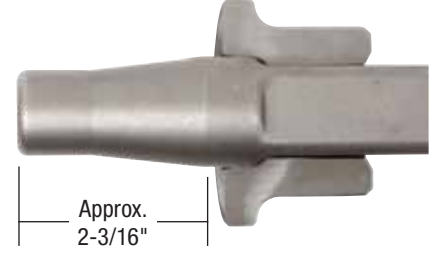
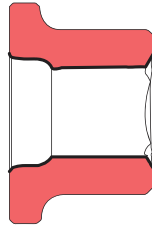
NEW



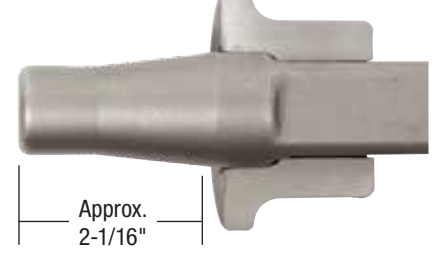
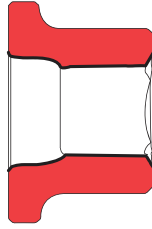
MODERATE WEAR
Seat Intact



SIGNIFICANT WEAR
Seat Beginning to Deform



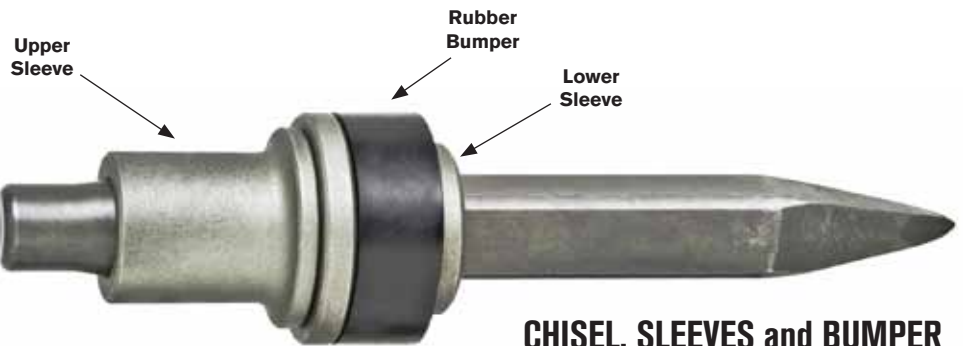
EXTREME WEAR
Seat Severely Deformed



Actual Dimensions May Vary

Actual Dimensions May Vary

EXTREME WEAR
Bumper Completely Broken Down



CHISEL, SLEEVES and BUMPER ASSEMBLY

INTERNAL WEAR IS THE HARDEST TO DETECT.

RIVET BUSTERS MUST BE INSPECTED DAILY.

Jumbo Series Retainer Parts



2000 Series Replacement Retainer Parts	
Type	Model No.
Upper Sleeve	2101
Lower Sleeve	2103
Lower Sleeve (split)	2103S
Rubber Bumper	2104
Poly Bumper	2104P-RED
Lock Spring	2194
Safety Retainer*	2190 Series

1500 Series Replacement Parts Also Available.
 *Please specify the make and model of hammer when ordering retainer.

ILLUSTRATION OF NEW SLEEVE ASSEMBLY

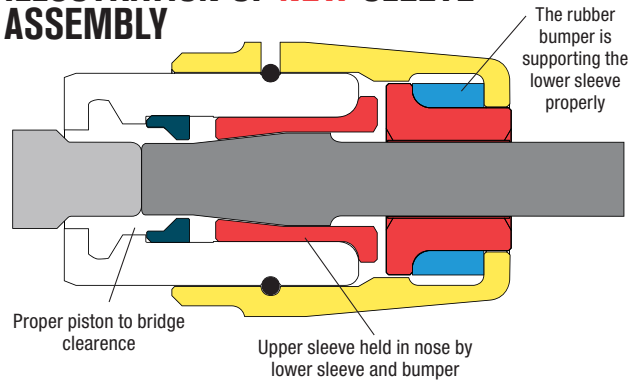
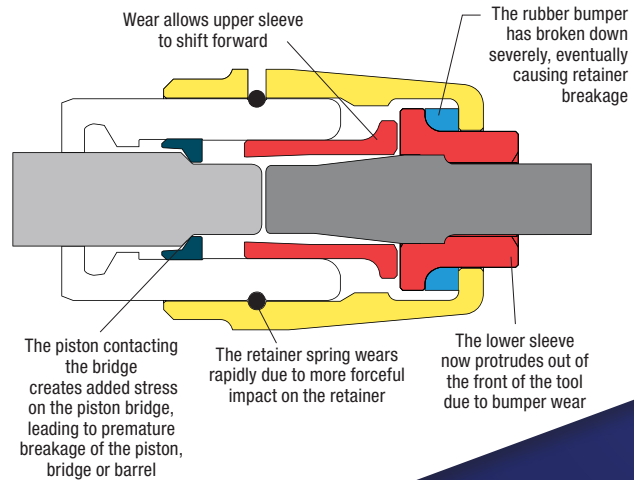


ILLUSTRATION OF WORN OUT SLEEVE ASSEMBLY



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