

# SCOVILL

Great Designs Deserve Great Fasteners.



**Connect with Strength.**

**M I L I T A R Y   A N D   T A C T I C A L**

**MADE IN THE USA**



A M E R I C A S

A S I A - P A C I F I C

E U R O P E

# CROSS REFERENCE

| NASM PART NO.     | DOT PART NO.    |
|-------------------|-----------------|
| MS27977 Style 1   | Lift-the-DOT™   |
| MS27977 -1        | 90-XX-16205—2E  |
| -1B               | 90-XX-16205—2B  |
| -1N               | 90-XX-16205—2A  |
| MS27977 -2        | 90-XX-16206—2E  |
| -2B               | 90-XX-16206—2B  |
| -2N               | 90-XX-16206—2A  |
| MS27977 -3        | 90-BS-16506—2D  |
| -3B               | 90-BS-16506—2C  |
| -3N               | 90-BS-16506—2A  |
| MS27977 -8        | 90-XB-16358—2E  |
| -8B               | 90-XB-16358—2B  |
| -8N               | 90-XB-16358—2A  |
| MS27977 -10       | 90-BS-16509—2D  |
| -10B              | 90-BS-16509—2C  |
| -10N              | 90-BS-16509—2A  |
| MS27977 -29B      | 90-XX-163624-2C |
| -29N              | 90-XX-163624-2A |
| MS27977 -30B      | 90-XX-163627-2C |
| -30N              | 90-XX-163627-2A |
| MS27977 -37B      | 90-XX-163634-2C |
| -37N              | 90-XX-163634-2A |
| MS27977 -38B      | 90-XX-163637-2C |
| -38N              | 90-XX-163637-2A |
| MS27977 -43B      | 90-XX-163664-2C |
| MS27977 -45B      | 90-XX-163674-2C |
| MS27977 -59N      | 90-XX-163604-2A |
| MS27977 -63B      | 90-BS-16349—2B  |
| -63N              | 90-BS-16349—2A  |
| MS27977 -65       | 90-BS-16501—2D  |
| -65B              | 90-BS-16501—2C  |
| -65N              | 90-BS-16501—2A  |
| NASM27980 Style 2 | Durable™        |
| NASM27980 -1      | 93-X2-10128—3E  |
| -1B               | 93-X2-10128—3B  |
| -1N               | 93-X2-10128—3A  |
| NASM27980 -2      | 93-X2-10127—3E* |
| -2B               | 93-X2-10127—3B  |
| -2N               | 93-X2-10127—3A  |
| NASM27980 -6      | 93-XX-10224—3D  |
| -6B               | 93-XX-10224—3C  |
| -6N               | 93-XX-10224—3A  |
| NASM27980 -7      | 93-BS-10370—3D  |
| -7B               | 93-BS-10370—3C  |
| -7N               | 93-BS-10370—3A  |
| NASM27980 -8      | 93-BS-10412—3D  |
| -8B               | 93-BS-10412—3C  |
| -8N               | 93-BS-10412—3A  |

| NASM PART NO.      | DOT PART NO.     |
|--------------------|------------------|
| NASM27980 Style 2  | Durable™ - cont. |
| NASM27980 -9       | 93-BS-10413—3D   |
| -9B                | 93-BS-10413—3C   |
| -9N                | 93-BS-10413—3A   |
| NASM27980 -10      | 93-BS-10414—3D*  |
| -10B               | 93-BS-10414—3C   |
| -10N               | 93-BS-10414—3A   |
| NASM27980 -11B     | 93-XX-107042-2C  |
| -11N               | 93-XX-107042-2A  |
| NASM27980 -12N     | 93-XX-107043-2A  |
| NASM27980 -13B     | 93-XX-107044-2C  |
| -13N               | 93-XX-107044-2A  |
| NASM27980 -14B     | 93-XX-107047-2C  |
| -14N               | 93-XX-107047-2A  |
| NASM27980 -18B     | 93-XX-107087-2C  |
| -18N               | 93-XX-107087-2A  |
| NASM27980 -27      | 93-XB-10342—3D*  |
| -27B               | 93-XB-10342—3C   |
| -27N               | 93-XB-10342—3A   |
| NASM27981 Style 2A | Baby Durable™    |
| NASM27981 -1       | 94-X2-12108—3E*  |
| -1B                | 94-X2-12108—3B   |
| -1N                | 94-X2-12108—3A   |
| NASM27981 -2       | 94-X2-12126—3E*  |
| -2B                | 94-X2-12126—3B   |
| -2N                | 94-X2-12126—3A   |
| NASM27981 -3       | 94-XX-12206—3D*  |
| -3B                | 94-XX-12206—3C   |
| -3N                | 94-XX-12206—3A   |
| NASM27981 -4       | 94-BS-12303—3D*  |
| -4B                | 94-BS-12303—3C   |
| -4N                | 94-BS-12303—3A   |
| NASM27981 -5       | 94-BS-12402—3D*  |
| -5B                | 94-BS-12402—3C   |
| -5N                | 94-BS-12402—3A   |
| NASM27981 -6       | 94-BS-12404—3D   |
| -6B                | 94-BS-12404—3C   |
| -6N                | 94-BS-12404—3A   |
| NASM27983 Style 4  | Pull-the-DOT™    |
| NASM27983 -1       | 92-XE-18100-A3B  |
| -1N                | 92-XE-18100-A3A  |
| NASM27983 -2       | 92-XX-18201—3C   |
| -2N                | 92-XX-18201—3A   |
| NASM27983 -3       | 92-BS-18303—3C   |
| -3N                | 92-BS-18303—3A   |
| NASM27983 -4       | 93-BS-10412—3C   |
| -4N                | 93-BS-10412—3A   |

| NASM PART NO.                           | DOT PART NO.     |
|-----------------------------------------|------------------|
| NASM27984 Style 5                       | Sigma™           |
| NASM27984 -1                            | 95-BS-21154—3F   |
| -1B                                     | 95-BS-21154—3B   |
| -1N                                     | 95-BS-21154—3A   |
| NASM27984 -3                            | 95-BS-22201—3D   |
| -3B                                     | 95-BS-22201—3C   |
| -3N                                     | 95-BS-22201—3A   |
| NASM27984 -4                            | 95-BS-22321—3D   |
| -4B                                     | 95-BS-22321—3C   |
| -4N                                     | 95-BS-22321—3A   |
| NASM27984 -6                            | 95-BS-22401—3D   |
| -6B                                     | 95-BS-22401—3C   |
| -6N                                     | 95-BS-22401—3A   |
| NASM27984 -8                            | 95-BS-22402—3D   |
| -8B                                     | 95-BS-22402—3C   |
| -8N                                     | 95-BS-22402—3A   |
| NASM27986 Style 7                       | Speedy Rivets*   |
| NASM27986 -1                            | 95-BS-21409—3D   |
| -1B                                     | 95-BS-21409—3C   |
| -1N                                     | 95-BS-21409—3A   |
| NASM27986 -2                            | 95-BS-99884—3E   |
| -2B                                     | 95-BS-99884—3B   |
| -2N                                     | 95-BS-99884—3A   |
| NASM27986 -3                            | 95-BS-22405—3D   |
| -3B                                     | 95-BS-22405—3C   |
| -3N                                     | 95-BS-22405—3A   |
| NASM27986 -4                            | 95-BS-99972—3E   |
| -4B                                     | 95-BS-99972—3B   |
| -4N                                     | 95-BS-99972—3A   |
| BNAX Army Ordnance (For Reference Only) |                  |
| 549177                                  | 91-XB-78332—2G*  |
| 549219                                  | 91-XB-78333—2G*  |
| 549221                                  | 91-XB-78322—2G*  |
| 549220                                  | 91-XB-78323—2G*  |
| 549200                                  | 91-XB-783247-2A* |
| 549201                                  | 91-XB-783257-2A* |
| 583244                                  | 91-XX-783157-2G* |
| 8359954                                 | 91-XB-78317—2G*  |
| 10921894                                | 91-XB-78318—2G*  |
| 426687                                  | 91-BS-78403—2G*  |
| 426688                                  | 91-BS-78404—2G*  |
| 426686                                  | 91-BS-78505—2C*  |
| 7697418                                 | 91-BS-78502—2C*  |
| 549222                                  | 91-BS-78507—2C*  |

## COLOR GUIDE†

### Military Enamels



**Tan 499**  
9053



**Tan 500**  
9064



**Coyote 498**  
9056



**Foliage 504**  
9042



**Camo Green 483**  
9071



## DOT® Products

### Perform Under Pressure...

Scovill's DOT® products are renowned within the military for quality, durability, strength and performance. Our DOT products conform to stringent US Military and Commercial specifications (Mil-DTL-10884H), are Berry Amendment compliant (USC, Title 10, Section 2533a), can be identified by our registered CAGE Code and are proudly made in the USA. No matter the application, Scovill understands that every fastener or component must perform consistently under pressure.

#### Applications

- Uniforms
- Protective Gear
- Ammunition Packs
- Ground Cover
- Helmets
- Eyewear
- Holsters



**Learn more about our full range of DOT® products.**

**Contact your Scovill Sales Representative today to request a sample and quote.  
Visit [scovill.com](http://scovill.com) or call 1-888-726-8455.**

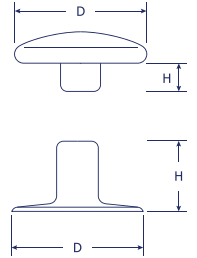
**MADE IN THE USA**



## Durable™ NASM27980, Style 2

These snap fasteners are ideal when superior snap action and holding strength are crucial. Durable™ fasteners feature a heavy-duty construction to ensure a firm grip that remains secure through years of use in even the toughest environments.

| CAPS                                                                                                                                                                     | SOCKETS                                                                                                                                          | STUDS                                                                                                                                             | POSTS                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>93-10112</b><br/>D: .600/15.24mm<br/>H: .315/8.00mm<br/>X2</p>                   |  <p><b>93-10224</b><br/>Normal Action<br/>XB</p>                |  <p><b>NASM27980-7B<br/>93-10370</b><br/>Standard<br/>BS</p>     |  <p><b>NASM27980-8B<br/>93-10412</b><br/>D: .565/14.35mm<br/>H: .240/6.09mm<br/>BS</p>   |
|  <p><b>NASM27980-1B<br/>93-10128</b><br/>D: .600/15.24mm<br/>H: .185/4.69mm<br/>X2</p>  |  <p><b>NASM27980-6B<br/>93-10224</b><br/>Hard Action<br/>XX</p> |  <p><b>93-10379</b><br/>Deep Shelf<br/>BS</p>                    |  <p><b>NASM27980-9B<br/>93-10413</b><br/>D: .565/14.35mm<br/>H: .295/7.49mm<br/>BS</p>   |
|  <p><b>NASM27980-2B<br/>93-10127</b><br/>D: .600/15.24mm<br/>H: .242/6.14mm<br/>X2</p> |                                                                                                                                                  |  <p><b>NASM27980-27B<br/>93-10342</b><br/>Gypsy Stud<br/>XB</p> |  <p><b>NASM27980-10B<br/>93-10414</b><br/>D: .565/14.35mm<br/>H: .370/9.39mm<br/>BS</p> |
|  <p><b>93-10150<br/>Mariner™</b><br/>D: .605/15.36mm<br/>H: .201/5.10mm<br/>XV</p>    |                                                                                                                                                  |  <p><b>93-10704</b><br/>XX, d</p>                              |                                                                                                                                                                             |
|                                                                                                                                                                          |                                                                                                                                                  |  <p><b>93-10708</b><br/>XX, e</p>                              |                                                                                                                                                                             |
|                                                                                                                                                                          |                                                                                                                                                  |  <p><b>93-10362</b><br/>XX, a</p>                              |                                                                                                                                                                             |



### BASE MATERIALS

BS All Brass  
X2 All Brass  
XB All Brass  
XE All Brass  
XV Brass/Plastic  
XX Brass/Other

### SCREW TYPES

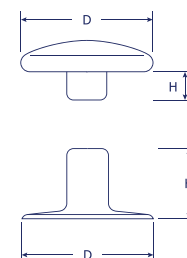
a #8-15 Self-Tapping  
b #8-18 Self-Drilling  
c #10-16 Self-Drilling  
d #8-32 Machine  
e #10-32 Machine  
f #7 Wood Screw  
g #8-18 Self-Tapping  
h #8 Wood Screw  
i #12-14 Self-Tapping  
j #10-16 Self-Tapping



# Baby Durable™ NASM27981, Style 2A

Baby Durable™ is an intermediate sized snap fastener that provides firm snap action and strong holding power without being visually prominent on heavy-duty products. The smaller size and strong snap action of this fastener allows for years of use in precise locations even in the most rugged environments.

| CAPS                                                                                                                                                                             | SOCKETS                                                                                                                                                 | STUDS                                                                                                                                                   | POSTS                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>94-12105</b><br/>D: .454/11.53mm<br/>H: .128/3.25mm<br/>XB</p>                           |  <p><b>94-12205</b><br/>Normal Action<br/>XB</p>                       |  <p><b>94-12302</b><br/>Narrow Flange<br/>BS</p>                       |  <p><b>NASM27981-5B</b><br/><b>94-12402</b><br/>D: .490/12.44mm<br/>H: .179/4.54mm<br/>BS</p> |
|  <p><b>NASM27981-1B</b><br/><b>94-12108</b><br/>D: .525/13.33mm<br/>H: .125/3.17mm<br/>X2</p>   |  <p><b>NASM27981-3B</b><br/><b>94-12206</b><br/>Hard Action<br/>XX</p> |  <p><b>NASM27981-4B</b><br/><b>94-12303</b><br/>Wide Flange<br/>BS</p> |  <p><b>NASM27981-6B</b><br/><b>94-12404</b><br/>D: .490/12.44mm<br/>H: .229/5.81mm<br/>BS</p> |
|  <p><b>NASM27981-2B</b><br/><b>94-12126</b><br/>D: .525/13.33mm<br/>H: .185/4.69mm<br/>X2</p> |                                                                                                                                                         |                                                                                                                                                         |  <p><b>94-12405</b><br/>D: .424/10.76mm<br/>H: .229/5.81mm<br/>BS</p>                       |
|                                                                                                                                                                                  |                                                                                                                                                         |                                                                                                                                                         |  <p><b>94-12407</b><br/>D: .424/10.76mm<br/>H: .179/4.54mm<br/>BS</p>                       |



## BASE MATERIALS

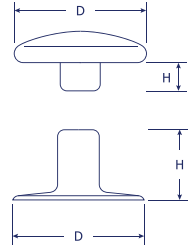
BS All Brass  
X2 All Brass  
XB All Brass  
XE All Brass  
XV Brass/Plastic  
XX Brass/Other



## Pull-the-DOT® NASM27983, Style 4

This heavy-duty, one-way fastener withstands extreme pressure from three sides without unlocking and is constructed of rust-resistant brass. Pull-the-DOT® has a well-earned reputation for performing in harsh environments and can be attached with semi-automatic machines.

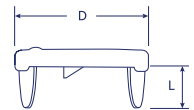
| CAPS                                                                                                                                                                   | SOCKETS                                                                                                                                         | STUDS                                                                                                                           | POSTS                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>NASM27983-1<br/>92-18100</b><br/>D: .598/15.18mm<br/>H: .166/4.21mm<br/>XE</p> |  <p><b>92-18201</b><br/>Normal Action<br/>XB</p>               |  <p><b>NASM27983-3<br/>92-18303</b><br/>BS</p> |  <p><b>NASM27983-4<br/>93-10412</b><br/>D: .565/14.35mm<br/>H: .240/6.09mm<br/>BS</p> |
|  <p><b>92-18103</b><br/>D: .598/15.18mm<br/>H: .226/5.74mm<br/>XE</p>                 |  <p><b>NASM27983-2<br/>92-18201</b><br/>Hard Action<br/>XX</p> |                                                                                                                                 |  <p><b>93-10413</b><br/>D: .565/14.35mm<br/>H: .295/7.49mm<br/>BS</p>                 |



## Lift-the-DOT® MS27977, Style 1

Strong and heavy-duty, Lift-the-DOT® fasteners lock on three sides and are opened by lifting the fourth side. Rust-resistant, they are constructed of brass or other non-ferrous metals to ensure that this fastener can withstand the most difficult conditions.

| SOCKETS                                                                                                                                             | BACK PLATES                                                                                                                      | STUDS                                                                                                                             | WASHERS                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>MS27977-1B<br/>90-16205</b><br/>H: .205/5.20mm<br/>XX</p> |  <p><b>MS27977-3B<br/>90-16506</b><br/>BS</p> |  <p><b>MS27977-63B<br/>90-16349</b><br/>BS</p> |  <p><b>MS27977-65B<br/>90-16501</b><br/>BS</p> |
|  <p><b>MS27977-2B<br/>90-16206</b><br/>H: .261/6.62mm<br/>XX</p> |                                                                                                                                  |  <p><b>MS27977-8B<br/>90-16358</b><br/>XB</p>  |  <p><b>MS27977-10B<br/>90-16509</b><br/>BS</p> |



### SCREW STUDS



**90-16362**  
XX, d

### BASE MATERIALS

BS All Brass  
X2 All Brass  
XB All Brass  
XE All Brass  
XV Brass/Plastic  
XX Brass/Other

### SCREW TYPES

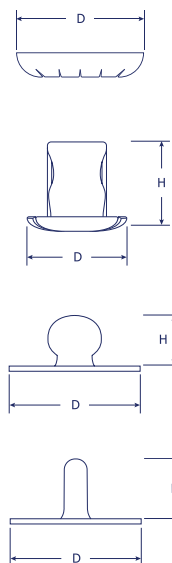
a #8-15 Self-Tapping  
b #8-18 Self-Drilling  
c #10-16 Self-Drilling  
d #8-32 Machine  
e #10-32 Machine  
f #7 Wood Screw  
g #8-18 Self-Tapping  
h #8 Wood Screw  
i #12-14 Self-Tapping  
j #10-16 Self-Tapping



## Segma™ NASM27984, Style 5

This closure is ideally suited for light-duty applications and features a segmented socket that delivers consistent snap action and focused performance.

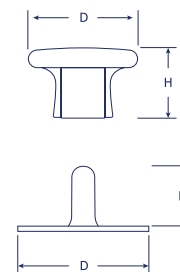
| CAPS                                                                              | SOCKETS                                                                           | STUDS                                                                             | POSTS                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| <b>NASM27984-1B<br/>95-21154</b><br>D: .389/10.10mm<br>BS                         | <b>NASM27984-3B<br/>95-22201</b><br>D: .375/9.52mm<br>H: .198/5.02mm<br>BS        | <b>NASM27984-4B<br/>95-22321</b><br>D: .335/8.50mm<br>H: .139/3.53mm<br>BS        | <b>NASM27984-6B<br/>95-22401</b><br>D: .365/9.27mm<br>H: .263/6.68mm<br>BS          |
|                                                                                   |                                                                                   |                                                                                   |  |
|                                                                                   |                                                                                   |                                                                                   | <b>NASM27984-8B<br/>95-22402</b><br>D: .363/9.22mm<br>H: .337/8.55mm<br>BS          |



## Speedy Rivets® NASM27986, Style 7

These rivets allow for a quick, reliable permanent closure on application material such as layers of leather, cloth and paper. Once attached, they create a tight, secure attachment that will resist rust.

| CAPS                                                                                | POSTS                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| <b>NASM27986-2B<br/>95-99884</b><br>D: .285/7.23mm<br>BS                            | <b>NASM27986-1B<br/>95-21409</b><br>D: .325/8.25mm<br>H: .288/7.31mm<br>BS          |
|  |  |
| <b>NASM27986-4B<br/>95-99972</b><br>D: .380/9.65mm<br>BS                            | <b>NASM27986-3B<br/>95-22405</b><br>D: .395/10.03mm<br>H: .314/7.97mm<br>BS         |



### BASE MATERIALS

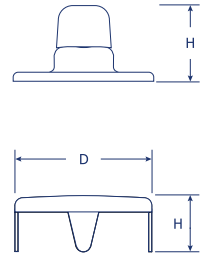
BS All Brass  
X2 All Brass  
XB All Brass  
XE All Brass  
XV Brass/Plastic  
XX Brass/Other



# Common Sense®

These positive-locking fasteners never open accidentally. Each is assembled with a spring mechanism that holds the fastener under tension in the desired position until turned and released by hand. Dependable even in the most difficult environments, Common Sense® is available in a variety of turn button styles and may be used on hard and soft surface applications.

| TURN BUTTONS                                                                      |                                                                                     | WASHERS                                                                           | GROMMETS                                                                            |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |    |  |  |
| <b>91-78322</b><br>H: .680/17.27mm<br>XB                                          | <b>91-78315</b><br>H: .790/20.06mm<br>XX, i                                         | <b>91-78505</b><br>BS                                                             | <b>91-78403</b><br>H: .335/8.50mm<br>BS                                             |
|  |    |                                                                                   |  |
| <b>91-78323</b><br>H: .790/20.06mm<br>XB                                          | <b>91-78324</b><br>H: .810/20.57mm<br>XB, f                                         |                                                                                   | <b>91-78404</b><br>H: .395/10.03mm<br>BS                                            |
|                                                                                   |  |                                                                                   |                                                                                     |
|                                                                                   | <b>91-78325</b><br>H: .900/22.86mm<br>XB, f                                         |                                                                                   |                                                                                     |



| TURN BUTTONS                                                                        |                                                                                     | BACK PLATES                                                                          |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |
| <b>91-78317</b><br>H: .805/20.44mm<br>XB                                            | <b>91-78318</b><br>H: .870/22.09mm<br>XB                                            | <b>91-78502</b><br>BS                                                                |
|  |  |  |
| <b>91-78332</b><br>H: .724/18.38mm<br>XB                                            | <b>91-78333</b><br>H: .838/21.28mm<br>XB                                            | <b>91-78507</b><br>BS                                                                |

## BASE MATERIALS

BS All Brass  
X2 All Brass  
XB All Brass  
XE All Brass  
XV Brass/Plastic  
XX Brass/Other

## SCREW TYPES

a #8-15 Self-Tapping  
b #8-18 Self-Drilling  
c #10-16 Self-Drilling  
d #8-32 Machine  
e #10-32 Machine  
f #7 Wood Screw  
g #8-18 Self-Tapping  
h #8 Wood Screw  
i #12-14 Self-Tapping  
J #10-16 Self-Tapping



# DOT® Grommets and Washers

**Sheet Metal Grommets** may be used interchangeably with Plain or Tooth Washers. **Plain Washers** are used as basic reinforcement to provide support for the grommet setting. **Tooth Washers** provide a firmer, tighter grip, particularly when used on woven material. **Rolled Rim Grommets** and **Spur Washers** are known for robust construction with a unique design of interlocking teeth that provides premium security for the most rigorous applications.



**Sheet Metal Grommet**

**Plain Washer**

## SHEET METAL GROMMETS

## NASM20230, Type I

| SIZE | PART NO. | ID   | OD    | LUF  | HOLE SIZE |
|------|----------|------|-------|------|-----------|
| #00  | 20-10900 | .176 | .425  | .135 | 3/16      |
| #0   | 20-00900 | .240 | .545  | .175 | 1/4       |
| #1   | 20-00901 | .286 | .687  | .185 | 9/32      |
| #2   | 20-00902 | .362 | .815  | .215 | 3/8       |
| #3   | 20-00903 | .433 | .970  | .295 | 7/16      |
| #4   | 20-00904 | .486 | 1.050 | .374 | 1/2       |
| #5   | 20-00905 | .594 | 1.220 | .330 | 5/8       |

## ASSEMBLED WITH PLAIN WASHERS

| SIZE | PART NO. | ID   | OD    |
|------|----------|------|-------|
| #00  | 20-10800 | .218 | .460  |
| #0   | 20-00800 | .285 | .546  |
| #1   | 20-00801 | .359 | .700  |
| #2   | 20-00802 | .453 | .835  |
| #3   | 20-00803 | .530 | .955  |
| #4   | 20-00804 | .585 | 1.064 |
| #5   | 20-00805 | .740 | 1.205 |



**Sheet Metal Grommet**

**Tooth Washer**

## SHEET METAL GROMMETS

## NASM16491/1, TYPE II

| SIZE | PART NO. | ID   | OD    | LUF  | HOLE SIZE |
|------|----------|------|-------|------|-----------|
| #2   | 20-00902 | .362 | .815  | .215 | 3/8       |
| #3   | 20-00903 | .433 | .970  | .295 | 7/16      |
| #4   | 20-00904 | .486 | 1.050 | .374 | 1/2       |

## ASSEMBLED WITH TOOTH WASHERS

| SIZE | PART NO. | ID   | OD    |
|------|----------|------|-------|
| #2   | 20-008T2 | .468 | .840  |
| #3   | 20-008T3 | .545 | .945  |
| #4   | 20-008T4 | .604 | 1.050 |



**Rolled Rim Grommet**

**Spur Washer**

## ROLLED RIM GROMMETS

## NASM20230, TYPE III

| SIZE | PART NO. | ID   | OD    | LUF  | HOLE SIZE |
|------|----------|------|-------|------|-----------|
| #0   | 20-00990 | .270 | .670  | .175 | 9/32      |
| #1   | 20-00991 | .380 | .790  | .210 | 3/8       |
| #2   | 20-00992 | .425 | .890  | .245 | 7/16      |
| #3   | 20-00993 | .430 | .970  | .255 | 15/32     |
| #4   | 20-00994 | .560 | 1.120 | .325 | 9/16      |

## ASSEMBLED WITH SPUR WASHERS

| SIZE | PART NO. | ID   | OD    |
|------|----------|------|-------|
| #0   | 20-00880 | .340 | .645  |
| #1   | 20-00881 | .455 | .790  |
| #2   | 20-00882 | .512 | .890  |
| #3   | 20-00883 | .537 | .970  |
| #4   | 20-00884 | .645 | 1.120 |



**Eyelet ABE131**

**Eyelet BBE114**

**Washer BBW101**

## EYELETS AND WASHERS NASM20652/1

| SIZE   | PART NO. | ID   | OD   | LUF  |
|--------|----------|------|------|------|
| ABE131 | 26-10501 | .303 | .592 | .187 |
| BBE114 | 47-36685 | .176 | .403 | .143 |
| BBW101 | 47-36689 | .220 | .450 |      |

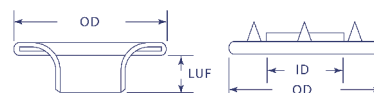


**Eyelet BBT307**

**Washer BBT308**

## EYELETS AND WASHERS

| SIZE    | PART NO. | ID   | OD   | LUF  |
|---------|----------|------|------|------|
| BBT307* | 47-36619 | .174 | .403 | .210 |
| BBT308* | 47-36620 | .220 | .425 | .125 |



# PRESSES AND TOOLS



## SEMI-AUTOMATIC FOOT PRESS Model 89-M200

- Safety rings
- Adjustable setting pressure
- Compensator unit
- Target light
- Adjustable Table Height 28–32"
- Throat Depth 4.5"
- Weight 200 lbs.



## BENCH MOUNT PRESS Model 89-M380E

- Cast iron and steel construction
- Interchangeable with all hand and foot machine dies
- Easy mounting to table or bench
- Throat Depth 4.5"
- Weight 21 lbs.



## Snapmaster™ Model 89-M840

- Aluminum and steel construction
- Heavy-duty toggle link mechanism
- Dual bushing system
- Adjustable lower die
- Punches and dies interchangeable in upper or lower die seats
- Cushioned operating lever
- Height 8.75", Width 5", Depth 1"
- Weight 2 lbs.



## HAND TOOLS

Lift-the-DOT® Cutting Punch  
Part No. 89-9951E



Durable™ Economy Setting Kit  
Part No. 89-UCS1T

## SETTING TOOLS

| Part No.             | 89-M200  | 89-M380E      | 89-M840       | Part No.             | 89-M200       | 89-M380E      | 89-M840       |
|----------------------|----------|---------------|---------------|----------------------|---------------|---------------|---------------|
|                      | Durable™ | Machine Tools | Machine Tools |                      | Common Sense® | Machine Tools | Machine Tools |
| 93-10112             |          | 89-1401       |               | 91-78317             |               | 89-9577       |               |
| 93-10127             |          | 89-1401       | 89-4403       | 91-78318             |               | 89-9577       |               |
| 93-10128             |          | 89-1401       | 89-4403       | 91-78332             |               | 89-9577       |               |
| 93-10150             |          | 89-1403       |               | 91-78333             |               | 89-9577       |               |
| 93-10224             |          | 89-1410       | 89-4303       | 91-78403             |               | 89-8199       | 89-4302       |
| 93-10342             |          | 89-9557       |               | 91-78404             |               | 89-8199       |               |
| 93-10370             |          | 89-1412       | 89-4304       | 91-78502             |               | 89-9578       |               |
| 93-10379             |          | 89-8101       | 89-4304       | 91-78505             |               | 89-8200       | 89-4402       |
| 93-10412             |          | 89-1407       | 89-4404       | 91-78507             |               | 89-8203       |               |
| 93-10413             |          | 89-1407       | 89-4404       | <b>Sigma™</b>        |               |               |               |
| 93-10414             |          | 89-1407       | 89-4404       | 95-21154             |               | 89-9182       |               |
| <b>Baby Durable™</b> |          |               |               | 95-22201             |               | 89-1580       |               |
| 94-12105             |          | 89-1482       |               | 95-22321             |               | 89-9219R      |               |
| 94-12108             |          | 89-1483       | 89-4406       | 95-22401             |               | 89-1587       |               |
| 94-12126             |          | 89-1483       | 89-4406       | 95-22402             |               | 89-1587       |               |
| 94-12205             |          | 89-9323       | 89-4307       | <b>Speed Rivets®</b> |               |               |               |
| 94-12206             |          | 89-9323       | 89-4307       | 95-99884             |               | 89-9493       |               |
| 94-12302             |          | 89-9772       |               | 95-21409             |               | 89-9110       |               |
| 94-12303             |          | 89-9772       | 89-4308       | 95-99972             |               | 89-9570       |               |
| 94-12402             |          | 89-1488       | 89-4407       | 95-22405             |               | 89-9114       |               |
| 94-12404             |          | 89-1488       | 89-4407       | <b>Lift-the-DOT®</b> |               |               |               |
| 94-12405             |          | 89-1488       |               | 90-16205             |               | 89-1454       | 89-4301       |
| 94-12407             |          | 89-1488       |               | 90-16206             |               | 89-1454       | 89-4301       |
| <b>Pull-the-DOT®</b> |          |               |               | 90-16506             |               | 89-1455       | 89-4401       |
| 92-18100             |          | 89-9758       | 89-4405       | 90-16349             |               | 89-8043       |               |
| 92-18103             |          | 89-9758       | 89-4405       | 90-16358             |               | 89-1456       |               |
| 92-18201             |          | 89-8059       | 89-4305       | 90-16501             |               | 89-8042       |               |
| 92-18303             |          | 89-9760       | 89-4304       | 90-16509             |               | 89-1457       |               |

## CUTTING TOOLS

### Lift-the-DOT®

|          |         |         |
|----------|---------|---------|
| 90-16205 | 89-9433 | 89-4101 |
| 90-16206 | 89-9433 | 89-4101 |
| 90-16506 | 89-9432 | 89-4201 |

### Common Sense®

|          |                 |
|----------|-----------------|
| 91-78403 | 89-4103/89-4203 |
| 91-78404 | 89-4103/89-4203 |

## HAND TOOLS

|          |                                                                        |
|----------|------------------------------------------------------------------------|
| 89-UCS1T | Durable Economy Setting Kit                                            |
| 89-164   | Durable Premium Setting Punch for standard Durable caps and eyelets    |
| 89-9936  | Heavy-duty two-sided Bench Die for Durable caps and eyelets            |
| 89-171   | Cutting Punch for 16349 stud and 78332/78333 Common Sense turn buttons |
| 89-9951E | Cutting Punch for 16205 and 16206 Lift-the-DOT sockets                 |
| 89-169B  | Screw Driver for Lift-the-DOT screw studs                              |
| 89-169N  | Screw Driver for Durable screw studs                                   |
| 89-9908  | Screw Driver for Common Sense turn button with screws                  |
| 89-9940  | Bench Die for 16358 Lift-the-DOT stud                                  |
| 89-192   | Chuck Holder for .375" shank punches and dies                          |
| 89-9902  | Bench Die Holder for .375" shank punches and dies                      |

### Pre-Punch Hole Piercing Dies

|         |                                            |
|---------|--------------------------------------------|
| 89-9061 | Top Punch for .187" hole for Durable       |
| 89-9974 | Bottom Die for .187" hole for Durable      |
| 89-9135 | Top Punch for .128" hole for Baby Durable  |
| 89-9975 | Bottom Die for .128" hole for Baby Durable |

# PRESSES AND TOOLS – Grommets and Washers



## SEMI-AUTOMATIC FOOT PRESS Model 89-M200

- Safety rings
- Adjustable setting pressure
- Compensator unit
- Target light
- Adjustable Table Height 28–32"
- Throat Depth 4.5"
- Weight 200 lbs.



## HAND TOOLS

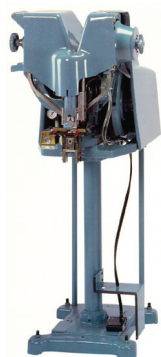
Common Sense®  
Cutting Punch  
Part No. 89-450E



## SETTING TOOLS - GROMMETS AND WASHERS

|                    |          |            | 89-M200<br>Machine Tools with<br>3/8" Shank Size |
|--------------------|----------|------------|--------------------------------------------------|
| Size               | Part No. | Hand Tools |                                                  |
| <b>SHEET METAL</b> |          |            |                                                  |
| #00                | 20-10900 | 22-RHT00GR | 22-R16P00GR, 22-R116Y00GR                        |
| #0                 | 20-00900 | 22-RHT0GR  | 22-R16P0GR, 22-R116Y0GR                          |
| #1                 | 20-00901 | 22-RHT1GR  | 22-R16P1GR, 22-R116Y1GR                          |
| #2                 | 20-00902 | 22-RHT2GR  | 22-R16P2GR, 22-R116Y2GR                          |
| #3                 | 20-00903 | 22-RHT3GR  | 22-R16P3GR, 22-R116Y3GR                          |
| #4                 | 20-00904 | 22-RHT4GR  | 22-R16P4GR, 22-R116Y4GR                          |
| <b>ROLLED RIM</b>  |          |            |                                                  |
| #0                 | 20-00990 | 22-RHT0RR  | 22-R16P0RR, 22-R116Y0RR                          |
| #1                 | 20-00991 | 22-RHT1RR  | 22-R16P1RR, 22-R116Y1RR                          |
| #2                 | 20-00992 | 22-RHT2RR  | 22-R16P2RR, 22-R116Y2RR                          |
| #3                 | 20-00993 | 22-RHT3RR  | 22-R16P3RR, 22-R116Y3RR                          |
| #4                 | 20-00994 | 22-RHT4RR  | 22-R16P4RR, 22-R116Y4RR                          |
| <b>EYELETS</b>     |          |            |                                                  |
| ABE131             | 26-10501 |            | 22-R16M1KLON, 22-R116Y1KLON                      |
| BBE114             | 47-36685 |            | 22-R16P36685                                     |
| BBW101             | 47-36689 |            | 22-116YS6619                                     |

# AUTOMATIC ATTACHING EQUIPMENT



## SNAP FASTENERS AUTOMATIC ATTACHING MACHINE Model 7057

### FEATURES

- Full safety guards
- Optional target light
- Manual adjustable stand available
- Throat Depth 4.25"
- Floor Space 4.1 sq. ft.
- Weight 400 lbs.

### BENEFITS

- Fully automatic feeding
- High speed attachments
- Rugged and proven design
- Quiet operation
- Operator friendly



## GROMMETS AND WASHERS ATTACHING MACHINE Segal Pneumatic Grommet Machine – Model 4KGW

### FEATURES

- PLC controls for all functions
- Simplified machine recovery operation
- For use with Plain or Rolled Rim Grommets #0 to #4, and Neck, Tooth and Spur Washers
- Available with mobile base
- Requires 90–100psi compressed air supply
- Weight 380 lbs.

### BENEFITS

- Fully automatic feeding and hole punching for both grommet and washer
- Need to set timing eliminated by PLC controls
- PLC controls clean jams and shuttle washers
- Reduced number of parts as compared to mechanical machines



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