

## BOLT DESIGNATIONS

**U a b . c d e / f g** BASIC PART NUMBER FOR BOLTS AND SETSCREWS

**U a ? . ? ? ? / ? ?** **a = C** -- COARSE THREAD  
**F** -- FINE THREAD

**U ? b . ? ? ? / ? ?** **b = B** -- BOLT  
**S** -- SETSCREW

**U ? ? . c ? ? / ? ?** **c = 0** -- OVAL HEAD, PHILLIPS (COUNTERSUNK)  
**1** -- HEX HEAD  
**2** --  
**3** -- CAP HEAD, SLOTTED  
**4** -- ROUND HEAD, SLOTTED  
**5** -- FLAT HEAD, SLOTTED, (COUNTERSUNK)  
**6** --  
**7** -- CAP HEAD, PHILLIPS  
**8** -- ROUND HEAD, PHILLIPS  
**9** -- FLAT HEAD, PHILLIPS, (COUNTERSUNK)

**U ? ? . ? d e / ? ?** **de = \*** -- THREAD DIAMETER (in hundredths of an inch)

**U ? ? . ? ? ? / f ?** **f = ‡** -- LENGTH UNDER HEAD (in eighths of an inch) 1 or 2 digits

**U ? ? . ? ? ? / ? g** **g = R** -- WRENCH DRIVEN  
**H** -- SCREWDRIVER DRIVEN

| <b>*<br/>( d e )</b> | <b>SIZE<br/>(IN.)</b> | <b>TPI<br/>(COARSE)</b> | <b>TPI<br/>(FINE)</b> | <b>WASHER<br/>SIZE</b> |
|----------------------|-----------------------|-------------------------|-----------------------|------------------------|
| <b>1 3</b>           | 1 / 8                 | 24                      |                       | <b>2</b>               |
| <b>1 9</b>           | 3 / 16                | 20                      | 32                    | <b>3</b>               |
| <b>2 5</b>           | 1 / 4                 | 18                      | 28                    | <b>4</b>               |
| <b>3 1</b>           | 5 / 16                | 16                      | 24                    | <b>5</b>               |
| <b>3 7</b>           | 3 / 8                 |                         | 24                    | <b>6</b>               |
| <b>4 3</b>           | 7 / 16                |                         | 20                    | <b>7</b>               |
| <b>5 0</b>           | 1 / 2                 |                         | 20                    | <b>8</b>               |

| <b>‡<br/>( f )</b> | <b>LENGTH<br/>(IN.)</b> | <b>SHANK (BOLTS)<br/>(IN.)</b> |
|--------------------|-------------------------|--------------------------------|
| <b>1</b>           | 1 / 8                   |                                |
| <b>2</b>           | 1 / 4                   |                                |
| <b>3</b>           | 3 / 8                   |                                |
| <b>4</b>           | 1 / 2                   |                                |
| <b>5</b>           | 5 / 8                   |                                |
| <b>6</b>           | 3 / 4                   |                                |
| <b>7</b>           | 7 / 8                   |                                |
| <b>8</b>           | 1                       |                                |
| <b>9</b>           | 1 - 1 / 8               |                                |
| <b>1 0</b>         | 1 - 1 / 4               |                                |
| <b>1 1</b>         | 1 - 3 / 8               |                                |
| <b>1 2</b>         | 1 - 1 / 2               |                                |
| <b>1 3</b>         | 1 - 5 / 8               |                                |

| 14 1 - 3/4  
| 15 1 - 7/8

|

**BOLT DESIGNATIONS (Cont'd)**

| <b>‡<br/>( f )</b> | <b>LENGTH<br/>(IN.)</b> | <b>SHANK (BOLTS)<br/>(IN.)</b> |
|--------------------|-------------------------|--------------------------------|
| 1 6                | 2                       |                                |
| 1 7                | 2 - 1 /8                |                                |
| 1 8                | 2 - 1 /4                |                                |
| 1 9                | 2 - 3 /8                |                                |
| 2 0                | 2 - 1 /2                |                                |
| 2 1                | 2 - 5 /8                |                                |
| 2 2                | 2 - 3 /4                |                                |
| 2 3                | 2 - 7 /8                |                                |
| 2 4                | 3                       |                                |
| 2 5                | 3 - 1 /8                |                                |
| 2 6                | 3 - 1 /4                |                                |
| 2 7                | 3 - 3 /8                |                                |
| 2 8                | 3 - 1 /2                |                                |
| 2 9                | 3 - 5 /8                |                                |
| 3 0                | 3 - 3 /4                |                                |
| 3 1                | 3 - 7 /8                |                                |
| 3 2                | 4                       |                                |
| 3 3                | 4 - 1 /8                |                                |
| 3 4                | 4 - 1 /4                |                                |
| 3 5                | 4 - 3 /8                |                                |
| 3 6                | 4 - 1 /2                |                                |
| 3 7                | 4 - 5 /8                |                                |
| 3 8                | 4 - 3 /4                |                                |
| 3 9                | 4 - 7 /8                |                                |
| 4 0                | 5                       |                                |
| 4 1                | 5 - 1 /8                |                                |
| 4 2                | 5 - 1 /4                |                                |
| 4 3                | 5 - 3 /8                |                                |
| 4 4                | 5 - 1 /2                |                                |
| 4 5                | 5 - 5 /8                |                                |
| 4 6                | 5 - 3 /4                |                                |
| 4 7                | 5 - 7 /8                |                                |
| 4 8                | 6                       |                                |
| 4 9                | 6 - 1 /8                |                                |
| 5 0                | 6 - 1 /4                |                                |
| 5 1                | 6 - 3 /8                |                                |
| 5 2                | 6 - 1 /2                |                                |
| 5 3                | 6 - 5 /8                |                                |
| 5 4                | 6 - 3 /4                |                                |
| 5 5                | 6 - 7 /8                |                                |
| 5 6                | 7                       |                                |
| 5 7                | 7 - 1 /8                |                                |
| 5 8                | 7 - 1 /4                |                                |
| 5 9                | 7 - 3 /8                |                                |
| 6 0                | 7 - 1 /2                |                                |
| 6 1                | 7 - 5 /8                |                                |
| 6 2                | 7 - 3 /4                |                                |
| 6 3                | 7 - 7 /8                |                                |
| 6 4                | 8                       |                                |
| 6 5                | 8 - 1 /8                |                                |
| 6 6                | 8 - 1 /4                |                                |
| 6 7                | 8 - 3 /8                |                                |
| 6 8                | 8 - 1 /2                |                                |

**69** 8 - 5/8

**70** 8 - 3/4

**NUT DESIGNATIONS**

U a N . c d e / f                    BASIC PART NUMBER FOR NUTS (non-locking)  
 U a N . ? ? ? / ?            a = C - COARSE THREAD  
     F - FINE THREAD

U ? N . c ? ? / ?            c = 0 -  
     1 - WIDE DIAMETER  
     2 - NARROW DIAMETER  
     3 -  
     4 - CASTLE  
     5 -

U ? N . ? d e / ?            de = \* - THREAD DIAMETER (in hundredths of an inch)

U ? N . ? ? ? / f            f = L - STEEL  
     Q - BRASS  
     I -

| *<br>( d e ) | SIZE<br>(IN.) | TPI<br>(COARSE) | TPI<br>(FINE) | WASHER<br>SIZE |
|--------------|---------------|-----------------|---------------|----------------|
| 1 3          | 1 / 8         | 24              |               | 2              |
| 1 9          | 3 / 16        | 20              | 32            | 3              |
| 2 5          | 1 / 4         | 18              | 28            | 4              |
| 3 1          | 5 / 16        | 16              | 24            | 5              |
| 3 7          | 3 / 8         |                 | 24            | 6              |
| 4 3          | 7 / 16        |                 | 20            | 7              |
| 5 0          | 1 / 2         |                 | 20            | 8              |

**FLAT WASHERS**

- a W . c d e / f**                      BASIC PART NUMBER FOR FLAT WASHERS  
**a W . ? ? ? / ?**              **a = A** = WIDE DIAMETER  
    **F** = NARROW DIAMETER
- ? W . c ? ? / ?**              **c**    **1** = THIN  
    **2** = THICK
- ? W . ? d e / ?**              **de = \*** = HOLE DIAMETER (in sixteenths of an inch)
- ? W . ? ? ? / f**              **f**    **T** = STEEL  
    **Z** = BEVELED  
    **E** = COPPER

| *<br>( d e ) | SIZE<br>(IN.) |
|--------------|---------------|
| 0 1          | 1 / 16        |
| 0 2          | 1 / 8         |
| 0 3          | 3 / 16        |
| 0 4          | 1 / 4         |
| 0 5          | 5 / 16        |
| 0 6          | 3 / 8         |
| 0 7          | 7 / 16        |
| 0 8          | 1 / 2         |
| 0 9          | 9 / 16        |
| 1 0          | 5 / 8         |

**SPRING WASHERS**

- a G . c d e / X**                      BASIC PART NUMBER FOR SPRING WASHERS  
**a G . ? ? ? / X**              **a = A** = WIDE DIAMETER  
    **F** = NARROW DIAMETER
- ? G . c ? ? / X**              **c**    **1** = SINGLE COIL  
    **2** = DOUBLE COIL
- ? G . ? d e / X**              **de = \*** = HOLE DIAMETER (in sixteenths of an inch)

| *<br>( d e ) | SIZE<br>(IN.) |
|--------------|---------------|
| 0 1          | 1 / 16        |
| 0 2          | 1 / 8         |
| 0 3          | 3 / 16        |
| 0 4          | 1 / 4         |
| 0 5          | 5 / 16        |
| 0 6          | 3 / 8         |
| 0 7          | 7 / 16        |
| 0 8          | 1 / 2         |
| 0 9          | 9 / 16        |
| 1 0          | 5 / 8         |

**SHAKEPROOF WASHERS**

C . 7 2 e / d                    BASIC PART NUMBER FOR SPRING WASHERS  
C . 7 2 e / ?                e = \* = HOLE DIAMETER (in sixteenths of an inch)  
C . 7 2 ? / d                d            = BLACK OXIDE  
    A = ZINC

| *<br>( e ) | SIZE<br>(IN.) |
|------------|---------------|
| 1          | 1 / 16        |
| 2          | 1 / 8         |
| 3          | 3 / 16        |
| 4          | 1 / 4         |
| 5          | 5 / 16        |
| 6          | 3 / 8         |
| 7          | 7 / 16        |
| 8          | 1 / 2         |
| 9          | 9 / 16        |

**HOSE CLAMPS**

C . 2 8 0 5 / n                    CHENNY HOSE CLAMPS

- o r -

C . 1 5 8 6 6 / n                    OTHER TYPE HOSE CLAMP

| n   | HOSE DIA.<br>(IN.) |
|-----|--------------------|
| 1   | 7 / 8              |
| 2   | 1 / 2              |
| 3   | 9 / 16             |
| 4   | 5 / 8              |
| 5   | 1 1 / 16           |
| 6   | 3 / 4              |
| 7   | 1 3 / 16           |
| 8   | 7 / 8              |
| 9   | 1                  |
| 1 0 |                    |
| 1 1 |                    |
| 1 2 |                    |
| 1 3 |                    |
| 1 4 | 1 - 1 / 8          |

**CLIPS**

C . 1 0 4 0 / n                    BASIC CLIP NUMBER

| n   | CLIP SIZE<br>(IN.) | HOLE SIZE<br>(IN.) |
|-----|--------------------|--------------------|
| 1   | 7 / 16             | 3 / 16             |
| 2   |                    |                    |
| 3   |                    |                    |
| 4   |                    |                    |
| 5   |                    |                    |
| 6   | 5 / 16             | 3 / 16             |
| 7   | 5 / 16             | 5 / 16             |
| 8   |                    |                    |
| 9   |                    |                    |
| 0   |                    |                    |
| 1 1 |                    |                    |
| 1 2 | 1 1 / 16           | 1 / 4              |
| 1 3 | 3 / 16             | 5 / 16             |
| 1 4 |                    |                    |
| 1 5 |                    |                    |
| 1 6 |                    |                    |
| 1 7 |                    |                    |
| 1 8 |                    |                    |
| 1 9 |                    |                    |
| 2 0 | 1                  | 1 / 4              |
| 2 1 |                    |                    |
| 2 2 |                    |                    |
| 2 3 |                    |                    |
| 2 4 | 3 / 16             | 5 / 16             |



