

| NOM. DIA. | $\phi A$     | B REF.       | $\phi D \pm .001$ | $\phi J \pm .005$ | $J1 \pm .030$ | $N \pm .060$ | $Q \pm .005$ | $X \pm .030$ |
|-----------|--------------|--------------|-------------------|-------------------|---------------|--------------|--------------|--------------|
| 05        | .328<br>.296 | .077<br>.067 | .163              | .375              | .800          | .140         | .067         | .060         |
| 06        | .394<br>.356 | .090<br>.080 | .198              | .375              | .830          | .160         | .087         | .070         |
| 08        | .475<br>.525 | .117<br>.107 | .259              | .375              | .975          | .190         | .110         | .090         |

| NOM. DIA. | P MAX | R MAX | $\phi Z$ MIN | S MAX | HOLE LIMITS  | SINGLE SHEAR MIN.<br>1 2 | TENSILE MIN.<br>1 | TENSILE PRELOAD MIN. | SPINDLE RETENTION MIN. |
|-----------|-------|-------|--------------|-------|--------------|--------------------------|-------------------|----------------------|------------------------|
| 05        | .300  | .010  | .223         | .232  | .167<br>.164 | 1980                     | 1150              | 115                  | 575                    |
| 06        | .320  | .015  | .270         | .292  | .202<br>.199 | 2925                     | 1690              | 169                  | 845                    |
| 08        | .370  | .020  | .355         | .361  | .263<br>.260 | 5000                     | 2900              | 290                  | 1440                   |

- 1. MINIMUM ULTIMATE SINGLE SHEAR AND TENSILE STRENGTHS IN POUNDS OF INSTALLED FASTENER.
- 2. APPLIES TO GRIPS 05-04 MAX, 06-05 MAX, 08-06 MAX AND UP. IN SHORTER GRIPS, A TRUE COMPOSITE SHEAR TEST CANNOT BE OBTAINED.
- 3. DIAMETER OF PIN HEAD SHALL NOT EXCEED " $\phi D$ " MAX.
- 4. MAY BE KNURLED TO FACILITATE FASTENER ASSEMBLY. NOT PART OF THE INSTALLED FASTENER.
- 5. BLIND SIDE HEAD MAY BE INSTALLED ON 7° MAXIMUM SLOPE.
- 6. IDENTIFICATION: ALLFAST SYMBOL, "C" (MATERIAL) AND GRIP DASH NUMBER.
- 7. "P" LENGTH OF " $\phi D$ " MAY BE .002 UNDERSIZE.
- 8. DRIVE ANVIL TO FACILITATE INSTALLATION ONLY. NOT PART OF THE INSTALLED FASTENER.
- 9. LUBRICATION: NONE OR MANUFACTURER'S OPTION TO LUBE AS FOLLOWS: WHEN LUBRICATED, PARTS SHALL BE LUBRICATED PER AS5272, MIL-L-87132 OR DOD-L-85 645.


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WILL NOT BE KEPT UP TO DATE

| REV | DATE        | BY   | E.O. NO. | EXTENDED GRIP BLIND BOLT<br>PROTRUDING HEAD<br>(95 KSI SHEAR)    | PREPARED     | CHECKED             | APPROVED            |
|-----|-------------|------|----------|--|--------------|---------------------|---------------------|
| NC  | 06/29/15    | P.M. | 9087     |  | BRYAN DANG   | APPROVAL<br>ON FILE | APPROVAL<br>ON FILE |
| A   | 11/03/17    | P.M. | 9968     |  | 06/29/15     |                     |                     |
| --- | ---/---/--- | ---  | ---      | 15200 DON JULIAN RD., CITY OF INDUSTRY, CA 91745<br>626-968-9388 | AF7829       |                     |                     |
| --- | ---/---/--- | ---  | ---      |  | SHEET 1 OF 2 |                     |                     |
| --- | ---/---/--- | ---  | ---      |  |              |                     |                     |
| --- | ---/---/--- | ---  | ---      |  |              |                     |                     |

GRIP RANGE

| GRIP LENGTH | UNDER LAP        |                        | GRIP RANGE |       | OVERLAP       | DIAMETER |       |        |       |        |       |
|-------------|------------------|------------------------|------------|-------|---------------|----------|-------|--------|-------|--------|-------|
|             | MIN ONLY 05 DIA. | MIN ONLY 06 TO 08 DIA. | MIN        | MAX   | MAX TO 08 DIA | 05       |       | 06     |       | 08     |       |
|             |                  |                        |            |       |               | L REF.   | K MAX | L REF. | K MAX | L REF. | K MAX |
| 01          | -                | -                      | .031       | .095  | .111 (a)      | .283     | .447  | -      | -     | -      | -     |
| 02          | .084             | .078                   | .094       | .157  | .173          | .346     | .510  | .373   | .570  | .413   | .660  |
| 03          | .146             | .140                   | .156       | .220  | .236          | .408     | .572  | .435   | .632  | .475   | .722  |
| 04          | .209             | .203                   | .219       | .282  | .298          | .471     | .635  | .498   | .695  | .538   | .785  |
| 05          | .271             | .265                   | .281       | .345  | .361          | .533     | .697  | .560   | .757  | .600   | .847  |
| 06          | .334             | .328                   | .344       | .407  | .423          | .596     | .760  | .623   | .820  | .663   | .910  |
| 07          | .396             | .390                   | .406       | .470  | .486          | .658     | .822  | .685   | .882  | .725   | .972  |
| 08          | .459             | .453                   | .469       | .532  | .548          | .720     | .884  | .748   | .945  | .788   | 1.035 |
| 09          | .521             | .515                   | .531       | .595  | .611          | .782     | .946  | .810   | 1.007 | .850   | 1.097 |
| 10          | .584             | .578                   | .594       | .657  | .673          | .845     | 1.009 | .873   | 1.070 | .913   | 1.160 |
| 11          | .646             | .640                   | .656       | .720  | .736          | .908     | 1.072 | .936   | 1.133 | .976   | 1.223 |
| 12          | .709             | .703                   | .719       | .782  | .798          | .970     | 1.134 | .998   | 1.195 | 1.038  | 1.285 |
| 13          | .771             | .765                   | .781       | .845  | .861          | 1.033    | .197  | 1.061  | 1.258 | 1.101  | 1.348 |
| 14          | .834             | .828                   | .844       | .907  | .923          | 1.095    | 1.259 | 1.123  | 1.320 | 1.163  | 1.410 |
| 15          | .896             | .890                   | .906       | .970  | .986          | 1.158    | 1.322 | 1.186  | 1.383 | 1.226  | 1.473 |
| 16          | .959             | .953                   | .969       | 1.032 | 1.048         | 1.220    | 1.384 | 1.248  | 1.445 | 1.288  | 1.535 |
| 17          | -                | 1.016                  | 1.031      | 1.095 | 1.111         | -        | -     | 1.311  | 1.508 | 1.351  | 1.598 |
| 18          | -                | 1.078                  | 1.094      | 1.157 | 1.173         | -        | -     | 1.373  | 1.570 | 1.413  | 1.660 |
| 19          | -                | 1.141                  | 1.156      | 1.220 | 1.236         | -        | -     | 1.435  | 1.633 | 1.476  | 1.723 |
| 20          | -                | 1.203                  | 1.219      | 1.282 | 1.298         | -        | -     | 1.498  | 1.695 | 1.538  | 1.785 |
| 21          | -                | 1.265                  | 1.281      | 1.345 | 1.360         | -        | -     | 1.560  | 1.758 | 1.601  | 1.848 |
| 22          | -                | 1.328                  | 1.344      | 1.407 | 1.423         | -        | -     | 1.623  | 1.820 | 1.663  | 1.910 |
| 23          | -                | 1.390                  | 1.406      | 1.470 | 1.485         | -        | -     | 1.685  | 1.883 | 1.726  | 1.973 |
| 24          | -                | 1.453                  | 1.469      | 1.532 | 1.548         | -        | -     | 1.748  | 1.945 | 1.788  | 2.035 |
| 25          | -                | 1.515                  | 1.531      | 1.595 | 1.610         | -        | -     | 1.810  | 2.008 | 1.851  | 2.098 |

a) ONLY FOR -05

| FINISH CODE | MATERIAL           |                    |                    | FINISH                    |                           |                           | LUBE  |
|-------------|--------------------|--------------------|--------------------|---------------------------|---------------------------|---------------------------|---|
|             | SLEEVE             | STEM               | LOCK COLLAR        | SLEEVE                    | STEM                      | LOCK COLLAR               |   |
| NONE        | A-286 CRES AMS5737 | A-286 CRES AMS5737 | A-286 CRES AMS5737 | PASSIVATE AMS2700, TYPE 8 | PASSIVATE AMS2700, TYPE 8 | PASSIVATE AMS2700, TYPE 8 | OPTIONAL  |
| H           |                    |                    |                    | HI-KOTE 1 EN4473          |                           |                           |  |

PART NUMBER EXAMPLE:

AF7829 -05 -06 H



H: INDICATES HI-KOTE ALUMINUM COATING  
NO CODE: INDICATES PASSIVATE PER AMS2700

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| REV | DATE        | BY   | E.O. NO. | EXTENDED GRIP BLIND BOLT<br>PROTRUDING HEAD<br>(95 KSI SHEAR)  | PREPARED               | CHECKED                           | APPROVED |
|-----|-------------|------|----------|--|------------------------|-----------------------------------|----------|
| NC  | 06/29/15    | P.M. | 9087     |  | BRYAN DANG             | <b>APPROVAL</b><br><b>ON FILE</b> |          |
| A   | 11/03/17    | P.M. | 9968     |  | 06/29/15               |                                   |          |
| --- | ---/---/--- | ---  | ---      | <br>15200 DON JULIAN RD., CITY OF INDUSTRY, CA 91745<br>626-968-9388 | AF7829<br>SHEET 2 OF 2 |                                   |          |
| --- | ---/---/--- | ---  | ---      |  |                        |                                   |          |
| --- | ---/---/--- | ---  | ---      |  |                        |                                   |          |
| --- | ---/---/--- | ---  | ---      |  |                        |                                   |          |