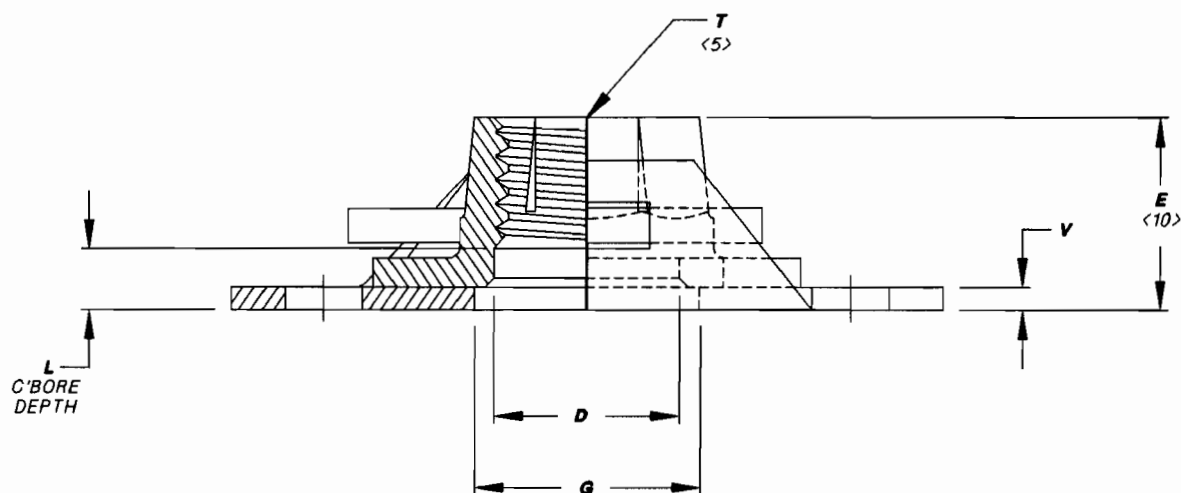
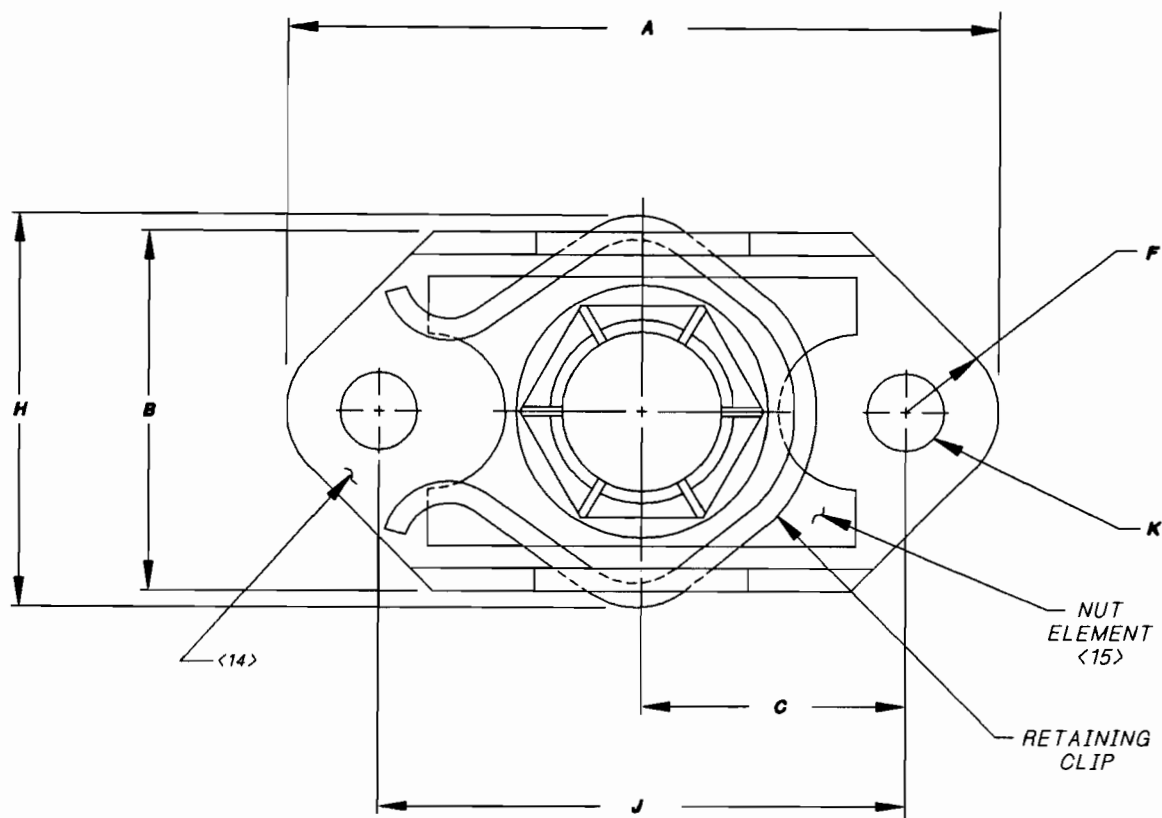


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**Fairchild** FAIRCHILD FASTENERS  
**ENGINEERING CENTER**  
 3000 WEST LOMITA BOULEVARD  
 TORRANCE, CA 90505

**NUT PLATE, REDUCED RIVET SPACE,  
 FLAT BEAM LOCK, CLIP-IN,  
 50 CYCLE, CRES STEEL,  
 2 LUG**

CAGE CODE **29372**  
 TRIDAIR PRODUCT

**FBL10097-()-()**

SHEET 1 OF 4

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TABLE 1

| DASH NUMBER | THREAD<br><5>    | A<br>MAX | B<br>MAX | C<br>.005 | D<br>DIA<br>REF | E<br>MAX<br>REF<br><10> | F<br>MIN | G<br>DIA<br>MIN<br>REF |
|-------------|------------------|----------|----------|-----------|-----------------|-------------------------|----------|------------------------|
| -3-1        | .1900-32 UNJF-3B | .900     | .445     | .300      | .194            | .250                    | .100     | .230                   |
| -3-2        |                  |          |          |           |                 | .312                    |          |                        |
| -3-3        |                  |          |          |           |                 | .375                    |          |                        |
| -3-4        |                  |          |          |           |                 | .438                    |          |                        |
| -3-5        |                  |          |          |           |                 | .500                    |          |                        |
| -3-6        |                  |          |          |           |                 | .562                    |          |                        |
| -4-1        | .2500-28 UNJF-3B | .959     | .547     | .344      | .254            | .295                    | .125     | .290                   |
| -4-2        |                  |          |          |           |                 | .357                    |          |                        |
| -4-3        |                  |          |          |           |                 | .419                    |          |                        |
| -4-4        |                  |          |          |           |                 | .481                    |          |                        |
| -4-5        |                  |          |          |           |                 | .543                    |          |                        |
| -4-6        |                  |          |          |           |                 | .605                    |          |                        |
| -5-1        | .3125-24 UNJF-3B | 1.150    | .643     | .438      | .317            | .344                    | .125     | .352                   |
| -5-2        |                  |          |          |           |                 | .400                    |          |                        |
| -5-3        |                  |          |          |           |                 | .461                    |          |                        |
| -5-4        |                  |          |          |           |                 | .524                    |          |                        |
| -5-5        |                  |          |          |           |                 | .586                    |          |                        |
| -5-6        |                  |          |          |           |                 | .649                    |          |                        |
| -6-1        | .3750-24 UNJF-3B | 1.150    | .750     | .438      | .385            | .374                    | .125     | .415                   |
| -6-2        |                  |          |          |           |                 | .435                    |          |                        |
| -6-3        |                  |          |          |           |                 | .500                    |          |                        |
| -6-4        |                  |          |          |           |                 | .560                    |          |                        |
| -6-5        |                  |          |          |           |                 | .630                    |          |                        |
| -6-6        |                  |          |          |           |                 | .685                    |          |                        |

| DASH NUMBER | THREAD<br><5>    | H<br>MAX | J<br>.002 | K<br>DIA<br>+.005<br>-.000 | L<br>C'BORE<br>MIN<br>REF | V<br>.005 | MAX<br>WEIGHT<br>LBS/100 |
|-------------|------------------|----------|-----------|----------------------------|---------------------------|-----------|--------------------------|
| -3-1        | .1900-32 UNJF-3B | .474     | .600      | .098                       | .070                      | .032      | .67                      |
| -3-2        |                  |          |           |                            | .125                      |           | .74                      |
| -3-3        |                  |          |           |                            | .188                      |           | .79                      |
| -3-4        |                  |          |           |                            | .250                      |           | .84                      |
| -3-5        |                  |          |           |                            | .313                      |           | .89                      |
| -3-6        |                  |          |           |                            | .375                      |           | .94                      |
| -4-1        | .2500-28 UNJF-3B | .574     | .688      | .098                       | .070                      | .032      | 1.17                     |
| -4-2        |                  |          |           |                            | .125                      |           | 1.27                     |
| -4-3        |                  |          |           |                            | .188                      |           | 1.36                     |
| -4-4        |                  |          |           |                            | .250                      |           | 1.44                     |
| -4-5        |                  |          |           |                            | .313                      |           | 1.54                     |
| -4-6        |                  |          |           |                            | .375                      |           | 1.62                     |
| -5-1        | .3125-24 UNJF-3B | .710     | .875      | .130                       | .070                      | .040      | 1.92                     |
| -5-2        |                  |          |           |                            | .125                      |           | 1.97                     |
| -5-3        |                  |          |           |                            | .188                      |           | 2.10                     |
| -5-4        |                  |          |           |                            | .250                      |           | 2.21                     |
| -5-5        |                  |          |           |                            | .313                      |           | 2.32                     |
| -5-6        |                  |          |           |                            | .375                      |           | 2.43                     |
| -6-1        | .3750-24 UNJF-3B | .830     | .875      | .130                       | .070                      | .045      | TO BE<br>DETERMINED      |
| -6-2        |                  |          |           |                            | .125                      |           |                          |
| -6-3        |                  |          |           |                            | .188                      |           |                          |
| -6-4        |                  |          |           |                            | .250                      |           |                          |
| -6-5        |                  |          |           |                            | .313                      |           |                          |
| -6-6        |                  |          |           |                            | .375                      |           |                          |

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**Fairchild****FAIRCHILD FASTENERS  
ENGINEERING CENTER**3000 WEST LOMITA BOULEVARD  
TORRANCE, CA 90505**NUT PLATE, REDUCED RIVET SPACE,  
FLAT BEAM LOCK, CLIP-IN,  
50 CYCLE, CRES STEEL,  
2 LUG**CAGE CODE **29372**

TRIDAIR PRODUCT

**FBL10097-()-()**

SHEET 2 OF 4

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TABLE 2

| PART NUMBER     | SEATING TORQUE (MAX) | INSTALLATION OR REMOVAL TORQUE (MAX) | BREAKAWAY TORQUE (MIN) |
|-----------------|----------------------|--------------------------------------|------------------------|
| FBL10097-3- ( ) | 50.0 IN/LBS.         | 18.0 IN/LBS                          | 2.0 IN/LBS             |
| FBL10097-4- ( ) | 100.0 IN/LBS.        | 30.0 IN/LBS                          | 3.5 IN/LBS             |
| FBL10097-5- ( ) | 150.0 IN/LBS.        | 60.0 IN/LBS                          | 6.5 IN/LBS             |
| FBL10097-6- ( ) | 200.0 IN/LBS.        | 80.0 IN/LBS                          | 9.5 IN/LBS             |

| PART NUMBER     | AXIAL TENSILE STRENGTH (POUNDS MIN) | PUSHOUT STRENGTH (LBS.MIN) | TORQUE-OUT STRENGTH (IN/LBS MIN) |
|-----------------|-------------------------------------|----------------------------|----------------------------------|
| FBL10097-3- ( ) | 2,460                               | 200                        | 90                               |
| FBL10097-4- ( ) | 4,580                               | 225                        | 160                              |
| FBL10097-5- ( ) | 7,390                               | 250                        | 280                              |
| FBL10097-6- ( ) | 11,450                              | 275                        | 340                              |

NOTES: (UNLESS OTHERWISE SPECIFIED).

## 2. MATERIAL:

2.1. NUT: A286 CRES STEEL, COMPOSITION PER AMS 5731 AND/OR AMS 5737.

2.2. CAGE: A286 CRES STEEL PER AMS 5525.

2.3. CLIP: 302 CRES STEEL PER AMS 5688 OR 18-2MN CRES.

## 3. HEAT TREAT:

3.1. NUT: 140 KSI MINIMUM ULTIMATE TENSILE STRENGTH PER MIL-H-6875.

3.2. CAGE: 140 KSI MINIMUM ULTIMATE TENSILE STRENGTH PER MIL-H-6875.

## 4. FINISH:

4.1. NUT: NO CODE = DRY FILM LUBE PER MIL-L-46010, TYPE I, A NICKEL OR COPPER PLATE AS A PRETREATMENT FOR APPLICATION OF DRY FILM LUBE IS OPTIONAL.

"C" CODE = CADMIUM PLATED PER QQ-P-416, TYPE II, CLASS 2 AND DRY FILM LUBE PER MIL-L-46010.

4.2. CAGE: NO CODE = PASSIVATE PER QQ-P-35.

"C" CODE = CADMIUM PLATED PER QQ-P-416, TYPE II, CLASS 2.

4.3. CLIP: PASSIVATE PER QQ-P-35.

&lt;5&gt; THREADS PER MIL-S-8879 EXCEPT IN LOCKING AREA AND PRIOR TO LUBRICATION.

6. ANTI-SEIZE COMPOUND PER MIL-A-907 APPLIED TO INTERNAL THREADS.

7. FLOAT OF NUT PORTION OF ASSEMBLY SHALL BE .030 MINIMUM RADIALLY FROM CENTERED POSITION. NUT BODY SHALL BE CAPABLE OF ENGAGEMENT WITH A BOLT IN THE MAXIMUM MISALIGNED POSITION.

8. PUSHOUT, TORQUE-OUT AND AXIAL TENSILE STRENGTH OF NUT PLATE SHALL BE AS SPECIFIED IN TABLE II.

9. LOCKING TORQUE:  
THE SELF LOCKING FEATURE SHALL BE A FLAT BEAM TYPE CAPABLE OF 50 SEATED USABLE CYCLES WHEN TESTED WITH A 160 KSI MINIMUM ULTIMATE TENSILE STRENGTH BARE 6AI-4V TITANIUM BOLT. LOCKING TORQUE LIMITS SHALL BE AS SPECIFIED IN TABLE.

&lt;10&gt; MINIMUM "E" NOT SPECIFIED, LIMITED ONLY BY STRENGTH REQUIREMENTS.

11. THE ASSEMBLY SHALL PROVIDE A BEARING SURFACE FOR THE NUT WITHIN THE CAGE.

12. SHAPE WITHIN ENVELOPE SHOWN OPTIONAL.

13. THE ENVELOPE DIMENSIONS OF THE NUT ELEMENT AND RETAINING CLIP ARE CONSISTANT AND INTERCHANGEABLE WITH THOSE SHOWN IN NAS 1794 AND NAS 1795.

&lt;14&gt; CAGE SHALL BE IDENTIFIED WITH MANUFACTURER'S IDENTIFICATION RAISED OR DEPRESSED .010 MAXIMUM. LOCATION OPTIONAL EXCEPT SHALL BE VISIBLE AFTER ASSEMBLY.

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**FAIRCHILD FASTENERS  
ENGINEERING CENTER**  
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FLAT BEAM LOCK, CLIP-IN,  
50 CYCLE, CRES STEEL,  
2 LUG**

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**FBL10097-()-()**

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## NOTES, CONTINUED:

<15> NUT ELEMENT SHALL BE IDENTIFIED WITH MANUFACTURER'S IDENTIFICATION AND SECOND DASH NUMBER OF ASSEMBLY TO INDICATE "L" COUNTERBORE DEPTH. MARKING SHALL BE RAISED OR DEPRESSED .010 MAXIMUM. LOCATION OPTIONAL.

16. NUT ELEMENT IS REMOVABLE AND REPLACEABLE, SEE BELOW FOR PART NUMBERS:

| ASSEMBLY P/N  | NUT ELEMENT P/N <13> | RETAINING CLIP P/N <13> |
|---------------|----------------------|-------------------------|
| FBL10097-3-() | FBL10098-3-()        | FBL10059-3R             |
| FBL10097-4-() | FBL10098-4-()        | FBL10059-4R             |
| FBL10097-5-() | FBL10098-5-()        | FBL10059-5R             |
| FBL10097-6-() | FBL10098-6-()        | FBL10059-5R             |

17. PART CALLOUT EXAMPLE:

FBL10097-4-2

SECOND DASH NUMBER INDICATES  
"L" COUNTERBORE DEPTH (.125 SHOWN)

FIRST DASH NUMBER INDICATES  
BASIC SIZE IN SIXTEENTHS OF  
AN INCH (.2500-28UNJF SHOWN)

FINISH VARIATION - ADD "C" FOR CADMIUM PLATED PARTS

BASIC PART NUMBER

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|                      |                                                                                                                                    |                                           |
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| 29 JAN 90            |                                                                                                                                    | TRIDAIR PRODUCT                           |
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| DAF NUMBER           |                                                                                                                                    |                                           |
| DAF 44734            | <b>NUT PLATE, REDUCED RIVET SPACE,<br/>         FLAT BEAM LOCK, CLIP-IN,<br/>         50 CYCLE, CRES STEEL,<br/>         2 LUG</b> | <b>FBL10097-()-()</b><br><br>SHEET 4 OF 4 |

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