

6

5

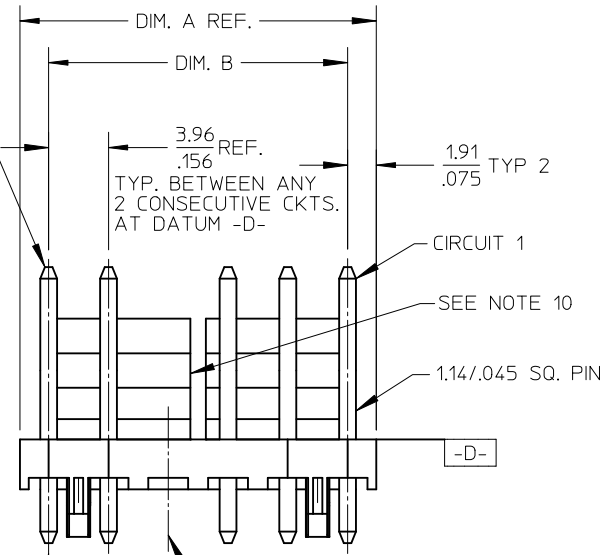
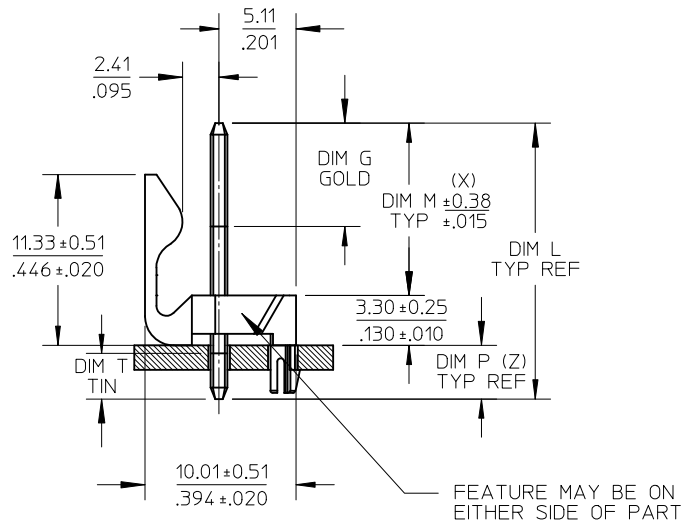
4

3

2

1

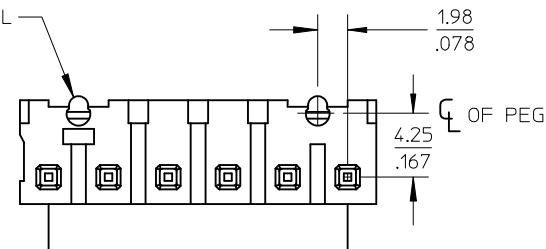
CENTERLINE OF PIN AT TIP  
NOT TO VARY FROM CENTERLINE OF  
PIN AT DATUM -D- BY MORE THAN  
0.20/.008 IN ANY DIRECTION.



VOIDED CKT. SEE CHART  
FOR LOCATION

CENTERLINE OF PIN AT TIP  
NOT TO VARY FROM CENTERLINE OF  
PIN AT DATUM -D- BY MORE THAN  
0.13/.005 IN ANY DIRECTION.

SEE PEG DETAIL  
SHEET 2



| NO. OF<br>CKTS. | DIM. A         | DIM. B                   | SLOT LOC<br>BETWEEN CKTS |
|-----------------|----------------|--------------------------|--------------------------|
| 2               | 7.77<br>.306   | 3.96±0.05<br>.156±.002   | NONE                     |
| 3               | 11.73<br>.462  | 7.92±0.08<br>.312±.003   | NONE                     |
| 4               | 15.70<br>.618  | 11.89±0.08<br>.468±.003  | NONE                     |
| 5               | 19.66<br>.774  | 15.85±0.10<br>.624±.004  | NONE                     |
| 6               | 23.62<br>.930  | 19.81±0.10<br>.780±.004  | 3 & 4                    |
| 7               | 27.58<br>1.086 | 23.77±0.10<br>.936±.004  | 4 & 5                    |
| 8               | 31.55<br>1.242 | 27.74±0.13<br>1.092±.005 | 4 & 5                    |
| 9               | 35.51<br>1.398 | 31.70±0.13<br>1.248±.005 | 5 & 6                    |
| 10              | 39.47<br>1.554 | 35.66±0.13<br>1.404±.005 | 5 & 6                    |
| 11              | 43.43<br>1.710 | 39.62±0.15<br>1.560±.006 | 6 & 7                    |
| 12              | 47.40<br>1.866 | 43.59±0.15<br>1.716±.006 | 4 & 5<br>8 & 9           |

|                                                                                                                            |             |                                              |
|----------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------|
| ADD FINISH 197, 241<br>EC NO: UCP2012-0114<br>DRWN:MMSTROH 2011/08/09<br>CHKD:MKIPPER 2011/10/21<br>APPR:FSMITH 2011/10/28 | DESCRIPTION | QUALITY<br>SYMBOLS                           |
|                                                                                                                            |             | $\nabla = 0$<br>$\nabla = 0$<br>$\nabla = 0$ |
| REV                                                                                                                        |             |                                              |

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm     | INCH   |
|----------|--------|--------|
| 4 PLACES | ± ---  | ± ---  |
| 3 PLACES | ± ---  | ± .010 |
| 2 PLACES | ± 0.25 | ± .015 |
| 1 PLACE  | ± 0.38 | ± ---  |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM/IN

|             |          |
|-------------|----------|
| DRAWN BY    | DATE     |
| SCHAFFER    | 12-11-03 |
| CHECKED BY  | DATE     |
| SAMIEC      | 12-14-03 |
| APPROVED BY | DATE     |
| MARGULIS    | 12-18-03 |

MATERIAL NO.

SEE CHART

SIZE  
A

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE  
---

DESIGN UNITS  
INCH

THIRD ANGLE  
PROJECTION

TITLE  
FR. LOCK HEADER ASSEMBLY  
.156 CENTERS  
STR SQ PINS W/ PEGS  
MOLEX INCORPORATED

DOCUMENT NO.

SD-42891-001

SHEET NO.

1 OF \*

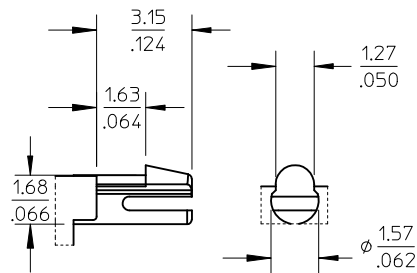
5

4

3

2

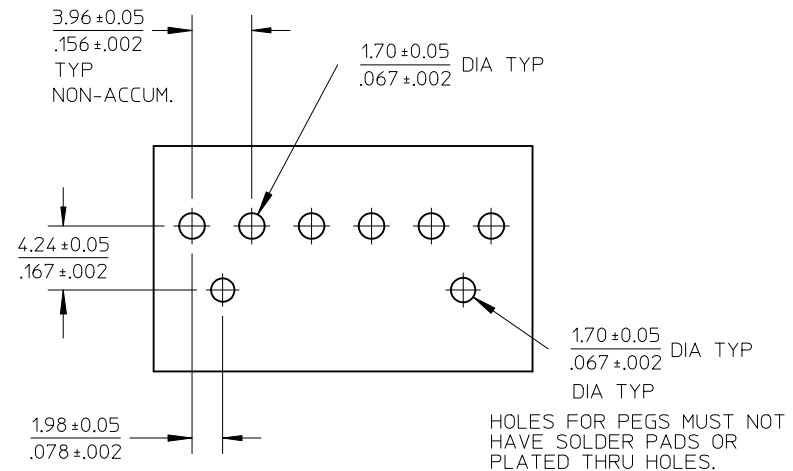
1



PEG DETAIL

NOTES:

1. MATERIAL: HEADER-GLASS FILLED POLYESTER, 94V-0, MOLDED NATURAL WHITE  
PINS: BRASS
2. FINISHES: (197) OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN.  
OVER 0.00127/.000050 MIN. NICKEL OVERALL.  
(154) OVERALL TIN: 0.00254/.000100 MIN  
OVER 0.00127/.000050 MIN NICKEL  
(208) SELECT GOLD: 0.00038/.000015 MIN  
SELECT TIN: 0.00254/.000100 MIN  
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN  
(228) SELECT GOLD: 0.00076/.000030 MIN  
SELECT TIN: 0.00254/.000100 MIN  
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN  
(241) SELECT GOLD: 0.00051/.000020 MIN.  
SELECT TIN: 0.00254/.000100 MIN.  
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
3. PRODUCT SPECIFICATION: SEE PS-08-50.
4. PACKAGING INFO: SEE TABLES
5. SOLDERABILITY: PER SMES-152
6. PIN PUSH OUT FORCE: PRIOR TO SOLDERING, A 3 LB MINIMUM FORCE (IN EITHER DIRECTION)  
SHALL BE REQUIRED TO PUSH THE PIN OUT OF THE HEADER.
7. PARTS ARE STACKABLE END TO END ON 3.96/.156 CENTERS.
8. FOR PART WITHOUT PEGS SEE DWG. NO. SDA-41791.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC  
SPECIFICATION PS-45499-002.
10. SLOTS ON BACKWALL ARE BETWEEN CIRCUITS. SEE CHART FOR LOCATION.



RECOMMENDED PC BOARD HOLE LAYOUT:  
COMPONENT SIDE FOR 1.57/.062 THK. PCB

FOR CORRECT ORIENTATION OF PARTS WITH  
VOIDS, ELIMINATE CORRESPONDING PCB HOLE.

|                                                                                                                    |             |                 |                                                            |        |        |                          |                                                                                                                               |                                                                                       |                      |                        |  |  |
|--------------------------------------------------------------------------------------------------------------------|-------------|-----------------|------------------------------------------------------------|--------|--------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------|------------------------|--|--|
| SEE SHEET 1<br>EC NO: UCP2012-0114<br>DRWN:MMSTROH 2011/08/09<br>CHKD:MKIPPER 2011/10/21<br>APPR:FSMITH 2011/10/28 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        |        | DIMENSION STYLE<br>MM/IN |                                                                                                                               | SCALE<br>---                                                                          | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION |  |  |
|                                                                                                                    |             |                 |                                                            | mm     | INCH   | DRAWN BY                 | DATE                                                                                                                          | FR. LOCK HEADER ASSEMBLY<br>.156 CENTERS<br>STR SQ PINS W/ PEGS<br>MOLEX INCORPORATED |                      |                        |  |  |
|                                                                                                                    |             |                 | 4 PLACES                                                   | ± ---  | ± ---  | SCHAFFER                 | 12-11-03                                                                                                                      |                                                                                       |                      |                        |  |  |
|                                                                                                                    |             |                 | 3 PLACES                                                   | ± ---  | ± .010 | CHECKED BY               | DATE                                                                                                                          |                                                                                       |                      |                        |  |  |
|                                                                                                                    |             |                 | 2 PLACES                                                   | ± 0.25 | ± .015 | SAMIEC                   | 12-14-03                                                                                                                      |                                                                                       |                      |                        |  |  |
| 1 PLACE                                                                                                            | ± 0.38      | ± ---           | APPROVED BY                                                | DATE   |        |                          |                                                                                                                               |                                                                                       |                      |                        |  |  |
|                                                                                                                    |             |                 | ANGULAR ±1/2°                                              |        |        | MARGULIS                 | 12-18-03                                                                                                                      | molex                                                                                 |                      |                        |  |  |
|                                                                                                                    |             |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |        | MATERIAL NO.             |                                                                                                                               | DOCUMENT NO.                                                                          |                      | SHEET NO.              |  |  |
|                                                                                                                    |             |                 |                                                            |        |        | SEE CHART                |                                                                                                                               | SD-42891-001                                                                          |                      | 2 OF *                 |  |  |
| REV                                                                                                                |             |                 |                                                            |        |        | SIZE<br>A                | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                       |                      |                        |  |  |

|         |              |                   |              |                   |              |                   |              |                   |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group        | A-42891-0002/0018 | Group        | A-42891-0120/0136 | Group        | A-42891-0137/0153 | Group        | A-42891-0068/0084 |
|         | Header No:   | 41790-0053/0069   | Header No:   | 41790-0053/0069   | Header No:   | 41790-0053/0069   | Header No:   | 41790-0053/0069   |
|         | Pin No:      | 43294-0214        | Pin No:      | 43294-0209        | Pin No:      | 43294-0210        | Pin No:      | 43294-0301        |
|         | Plating:     | 197               | Plating:     | 208               | Plating:     | 228               | Plating:     | 197               |
|         | Pin Length L | 18.29/ .720       | Pin Length L | 18.29/ .720       | Pin Length L | 18.29/ .720       | Pin Length L | 20.83/ .820       |
|         | Mating M     | 11.43/ .450       | Mating M     | 11.43/ .450       | Mating M     | 11.43/ .450       | Mating M     | 11.40/ .449       |
|         | Gold Loc G   | N/A               | Gold Loc G   | 6.86/ .270        | Gold Loc G   | 6.86/ .270        | Gold Loc G   | N/A               |
|         | PC Tail P    | 3.56/ .140        | PC Tail P    | 3.56/ .140        | PC Tail P    | 3.56/ .140        | PC Tail P    | 6.12/ .241        |
|         | Tin Loc T    | Overall           | Tin Loc T    | 4.06/ .160        | Tin Loc T    | 4.06/ .160        | Tin Loc T    | N/A               |
|         | Voided Ckts  | None              | Voided Ckts  | None              | Voided CKts  | None              | Voided Ckts  | NONE              |
|         | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-002      |
|         |              |                   |              |                   |              |                   |              |                   |
| Ckts    | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   |
| 2       | 26-60-6020   | A-42891-0002      | 42891-0120   | A-42891-0120      | 42891-0137   | A-42891-0137      | 26-60-6021   | A-42891-0068      |
| 3       | 26-60-6030   | A-42891-0003      | 42891-0121   | A-42891-0121      | 42891-0138   | A-42891-0138      |              | A-42891-0069      |
| 4       | 26-60-6040   | A-42891-0004      | 42891-0122   | A-42891-0122      | 42891-0139   | A-42891-0139      |              | A-42891-0070      |
| 5       | 26-60-6050   | A-42891-0005      | 42891-0123   | A-42891-0123      | 42891-0140   | A-42891-0140      |              | A-42891-0071      |
| 6       | 26-60-6060   | A-42891-0006      | 42891-0124   | A-42891-0124      | 42891-0141   | A-42891-0141      | 26-60-6061   | A-42891-0072      |
| 7       | 26-60-6070   | A-42891-0007      | 42891-0125   | A-42891-0125      | 42891-0142   | A-42891-0142      |              | A-42891-0073      |
| 8       | 26-60-6080   | A-42891-0008      | 42891-0126   | A-42891-0126      | 42891-0143   | A-42891-0143      | 26-60-6081   | A-42891-0074      |
| 9       | 26-60-6090   | A-42891-0009      | 42891-0127   | A-42891-0127      | 42891-0144   | A-42891-0144      |              | A-42891-0075      |
| 10      | 26-60-6100   | A-42891-0010      | 42891-0128   | A-42891-0128      | 42891-0145   | A-42891-0145      | 26-60-6101   | A-42891-0076      |
| 11      | 26-60-6110   | A-42891-0011      | 42891-0129   | A-42891-0129      | 42891-0146   | A-42891-0146      |              | A-42891-0077      |
| 12      | 26-60-6120   | A-42891-0012      | 42891-0130   | A-42891-0130      | 42891-0147   | A-42891-0147      |              | A-42891-0078      |

|                     |                                         |                |                                                                 |              |
|---------------------|-----------------------------------------|----------------|-----------------------------------------------------------------|--------------|
| REV:                | ECR/ECN INFORMATION                     | TITLE:         | FR. LOCK HEADER ASSEMBLY<br>.156 CENTERS<br>STR SQ PINS W/ PEGS | SHEET No.    |
| <b>F</b>            | EC NO: UCP2012-0114<br>DATE: 10/31/2011 |                |                                                                 | <b>- 3 -</b> |
| DOCUMENT NUMBER:    | CREATED / REVISED BY:                   | CHECKED BY:    | APPROVED BY:                                                    |              |
| <b>SD-42891-001</b> | <b>MMSTROH</b>                          | <b>MKIPPER</b> | <b>FSMITH</b>                                                   |              |

|         |              |                   |              |                   |              |                   |              |                   |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group        | A-42891-0085/0096 | Group        | A-42891-0097/0112 | Group        | A-42891-0019/0035 | Group        | A-42891-0036/0052 |
|         | Header No:   | 41790-0058/0069   | Header No:   | 41790-0054/0069   | Header No:   | 41790-0053/0069   | Header No:   | 41790-0053/0069   |
|         | Pin No:      | 43294-0214        | Pin No:      | 43294-0214        | Pin No:      | 43294-0215        | Pin No:      | 43294-0214        |
|         | Plating:     | 197               | Plating:     | 197               | Plating:     | 241               | Plating:     | 197               |
|         | Pin Length L | 18.29/ .720       | Pin Length L | 18.29/ .720       | Pin Length L | 18.29/ .720       | Pin Length L | 18.29/ .720       |
|         | Mating M     | 11.43/ .450       | Mating M     | 11.43/ .450       | Mating M     | 11.43/ .450       | Mating M     | 11.43/ .450       |
|         | Gold Loc G   | N/A               | Gold Loc G   | N/A               | Gold Loc G   | 6.85/ .270        | Gold Loc G   | N/A               |
|         | PC Tail P    | 3.56/ .140        | PC Tail P    | 3.56/ .140        | PC Tail P    | 3.56/ .140        | PC Tail P    | 3.56/ .140        |
|         | Tin Loc T    | OVERALL           | Tin Loc T    | OVERALL           | Tin Loc T    | 4.06/ .160        | Tin Loc T    | OVERALL           |
|         | Voided Ckts  | 7                 | Voided Ckts  | 3                 | Voided CKts  | NONE              | Voided Ckts  | 2                 |
|         | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-001      |
|         |              |                   |              |                   |              |                   |              |                   |
| Ckts    | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   |
| 2       |              |                   |              |                   | 26-60-6022   | A-42891-0019      |              |                   |
| 3       |              |                   | 42891-0097   | A-42891-0097      | 26-60-6032   | A-42891-0020      | 26-62-6030   | A-42891-0037      |
| 4       |              |                   | 42891-0098   | A-42891-0098      | 26-60-6042   | A-42891-0021      | 26-62-6040   | A-42891-0038      |
| 5       |              |                   | 42891-0099   | A-42891-0099      | 26-60-6052   | A-42891-0022      | 26-62-6050   | A-42891-0039      |
| 6       |              |                   | 42891-0100   | A-42891-0100      | 26-60-6062   | A-42891-0023      | 26-62-6060   | A-42891-0040      |
| 7       | 42891-0085   | A-42891-0085      | 42891-0101   | A-42891-0101      | 26-60-6072   | A-42891-0024      | 26-62-6070   | A-42891-0041      |
| 8       | 42891-0086   | A-42891-0086      | 42891-0102   | A-42891-0102      | 26-60-6082   | A-42891-0025      | 26-62-6080   | A-42891-0042      |
| 9       | 42891-0087   | A-42891-0087      | 42891-0103   | A-42891-0103      | 26-60-6092   | A-42891-0026      | 26-62-6090   | A-42891-0043      |
| 10      | 26-62-6082   | A-42891-0088      | 42891-0104   | A-42891-0104      | 26-60-6102   | A-42891-0027      | 26-62-6100   | A-42891-0044      |
| 11      | 42891-0089   | A-42891-0089      | 42891-0105   | A-42891-0105      | 26-60-6112   | A-42891-0028      | 26-62-6110   | A-42891-0045      |
| 12      | 42891-0090   | A-42891-0090      | 42891-0106   | A-42891-0106      | 26-60-6122   | A-42891-0029      | 26-62-6120   | A-42891-0046      |

REV:

**F**

ECR/ECN INFORMATION

EC NO: UCP2012-0114

DATE: 10/31/2011

TITLE:

**FR. LOCK HEADER ASSEMBLY  
.156 CENTERS  
STR SQ PINS W/ PEGS**

SHEET No.

**- 4 -**

DOCUMENT NUMBER:

**SD-42891-001**

CREATED / REVISED BY:

**MMSTROH**

CHECKED BY:

**MKIPPER**

APPROVED BY:

**FSMITH**

|         |              |                   |              |                   |              |                   |              |                   |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group        | A-42891-0053/0067 | Group        | A-42891-0154/0165 | Group        | A-42891-0166/0180 | Group        | A-42891-0181/0197 |
|         | Header No:   | 41790-0053/0069   | Header No:   | 41790-0058/0069   | Header No:   | 41790-0055/0069   | Header No:   | 41790-0053/0069   |
|         | Pin No:      | 43294-0214        | Pin No:      | 43294-0214        | Pin No:      | 43294-0214        | Pin No:      | 43294-0213        |
|         | Plating:     | 197               | Plating:     | 197               | Plating:     | 197               | Plating:     | 154               |
|         | Pin Length L | 18.29/ .720       | Pin Length L | 18.29/ .720       | Pin Length L | 18.29/ .720       | Pin Length L | 18.29/ .720       |
|         | Mating M     | 11.43/ .450       | Mating M     | 11.43/ .450       | Mating M     | 11.43/ .450       | Mating M     | 11.43/ .450       |
|         | Gold Loc G   | N/A               | Gold Loc G   | N/A               | Gold Loc G   | N/A               | Gold Loc G   | N/A               |
|         | PC Tail P    | 3.56/ .140        | PC Tail P    | 3.56/ .140        | PC Tail P    | 3.56/ .140        | PC Tail P    | 3.56/ .140        |
|         | Tin Loc T    | OVERALL           | Tin Loc T    | OVERALL           | Tin Loc T    | OVERALL           | Tin Loc T    | OVERALL           |
|         | Voided Ckts  | 4                 | Voided Ckts  | 5, 7              | Voided CKts  | 2, 4              | Voided Ckts  | NONE              |
|         | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-001      | Pack Per     | PK-42491-001      |
|         |              |                   |              |                   |              |                   |              |                   |
| Ckts    | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   |
| 2       |              |                   |              |                   |              |                   | 50-29-1955   | A-42891-0181      |
| 3       |              |                   |              |                   |              |                   | 50-29-1956   | A-42891-0182      |
| 4       |              | A-42891-0053      |              |                   | 42891-0166   | A-42891-0166      | 50-29-1957   | A-42891-0183      |
| 5       | 26-62-6051   | A-42891-0054      |              |                   | 42891-0167   | A-42891-0167      | 50-29-1958   | A-42891-0184      |
| 6       |              | A-42891-0055      |              |                   | 42891-0168   | A-42891-0168      | 50-29-1959   | A-42891-0185      |
| 7       |              | A-42891-0056      | 42891-0154   | A-42891-0154      | 42891-0169   | A-42891-0169      | 50-29-1960   | A-42891-0186      |
| 8       |              | A-42891-0057      | 42891-0155   | A-42891-0155      | 42891-0170   | A-42891-0170      | 50-29-1961   | A-42891-0187      |
| 9       |              | A-42891-0058      | 42891-0156   | A-42891-0156      | 42891-0171   | A-42891-0171      | 50-29-1962   | A-42891-0188      |
| 10      | 26-62-6101   | A-42891-0059      | 42891-0157   | A-42891-0157      | 42891-0172   | A-42891-0172      | 50-29-1963   | A-42891-0189      |
| 11      |              | A-42891-0060      | 42891-0158   | A-42891-0158      | 42891-0173   | A-42891-0173      | 50-29-1964   | A-42891-0190      |
| 12      |              | A-42891-0061      | 42891-0159   | A-42891-0159      | 42891-0174   | A-42891-0174      | 50-29-1965   | A-42891-0191      |

|                     |                     |                       |                                                                 |               |              |
|---------------------|---------------------|-----------------------|-----------------------------------------------------------------|---------------|--------------|
| REV:                | ECR/ECN INFORMATION | TITLE:                | FR. LOCK HEADER ASSEMBLY<br>.156 CENTERS<br>STR SQ PINS W/ PEGS |               | SHEET No.    |
| <b>F</b>            | EC NO: UCP2012-0114 |                       |                                                                 |               | <b>- 5 -</b> |
|                     | DATE: 10/31/2011    |                       |                                                                 |               |              |
| DOCUMENT NUMBER:    |                     | CREATED / REVISED BY: | CHECKED BY:                                                     | APPROVED BY:  |              |
| <b>SD-42891-001</b> |                     | <b>MMSTROH</b>        | <b>MKIPPER</b>                                                  | <b>FSMITH</b> |              |