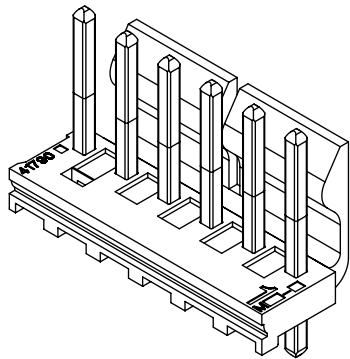
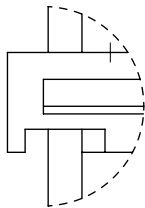
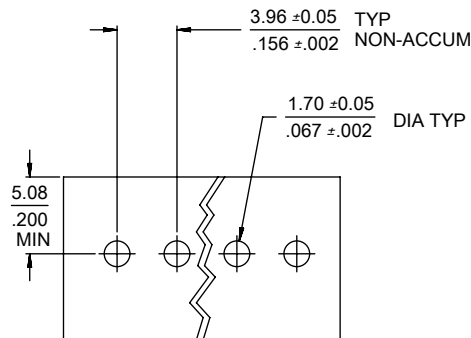




| CKT | DIM. A         | DIM. B                     | SLOT LOC<br>BETWEEN CKTS |
|-----|----------------|----------------------------|--------------------------|
| 2   | 7.77<br>.306   | 3.96 ±0.05<br>.156 ±.002   | NONE                     |
| 3   | 11.73<br>.462  | 7.92 ±0.08<br>.312 ±.003   | NONE                     |
| 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           |
| 13  | 51.36<br>2.022 | 47.55 ±0.15<br>1.872 ±.006 | 4 & 5<br>9 & 10          |
| 14  | 55.32<br>2.178 | 51.51 ±0.18<br>2.028 ±.007 | 5 & 6<br>9 & 10          |
| 15  | 59.28<br>2.334 | 55.47 ±0.18<br>2.184 ±.007 | 5 & 6<br>10 & 11         |
| 16  | 63.25<br>2.490 | 59.44 ±0.18<br>2.340 ±.007 | 5 & 6<br>11 & 12         |
| 17  | 67.21<br>2.646 | 63.40 ±0.20<br>2.496 ±.008 | 6 & 7<br>11 & 12         |
| 18  | 71.17<br>2.802 | 67.36 ±0.20<br>2.652 ±.008 | 6 & 7<br>12 & 13         |

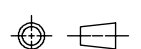


DETAIL Z  
SCALE 4:1



## RECOMMENDED P.C.BOARD LAYOUT

- NOTES:
1. MATERIAL: HEADER-GLASS FILLED POLYESTER, 94V-0, MOLDED NATURAL (WHITE).
  2. FINISH:
    - (154-TIN) OVERALL TIN: 0.00254/.000100 MIN.  
OVER 0.00127/.000050 MIN NICKEL.
    - (197-TIN) OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN.  
OVER 0.00127/.000050 MIN. NICKEL OVERALL.
    - (222-TIN) OVERALL MATTE TIN: 0.00254/.000100 MIN.  
OVER 0.00127/.000050 MIN NICKEL.
    - (208-15 GOLD) SELECT GOLD: 0.00038/.000015 MIN, SELECT TIN: 0.00254/.000100 MIN,  
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
    - (228-30 GOLD) SELECT GOLD: 0.00076/.000030 MIN, SELECT TIN: 0.00254/.000100 MIN,  
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
    - (241-20 GOLD) 0.00051/.000020 MIN.  
SELECT TIN: 0.00254/.000100 MIN.  
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
  3. PRODUCT SPECIFICATION AND PROCESS PARAMETERS: SEE PS-08-50.
  4. PACKAGING INFORMATION: SEE CHARTS.
  5. SOLDERABILITY: PER SMES-152.
  6. PIN PUSH-OUT FORCE: PRIOR TO SOLDERING, A 3 LB. MINIMUM FORCE (IN EITHER DIRECTION)
  7. PARTS ARE STACKABLE END TO END ON 3.96/.156 CENTERS.
  8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
  9. SLOTS ON BACKWALL ARE BETWEEN CIRCUITS. SEE CHART FOR LOCATION.
  - 10 FEATURE MAY OR MAY NOT EXTEND ACROSS THE ENTIRE FACE OF THE PART "SEE DETAIL Z".

| QUALITY SYMBOLS                                                                           |                                                                                     | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                            |  |  |                 |         |                                                                                       |  |                                                                                       |  |                                                                      |  |                 |  |                |  |          |  |                 |  |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--|--|-----------------|---------|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|-----------------|--|----------------|--|----------|--|-----------------|--|
|  = 0 | ADD 41791-0090<br><br>EC NO: 107107<br>DRWN: MKIPPER<br>CHKD: JBELL<br>APPR: FSMITH | 2016/08/01<br>2016/08/18<br>2016/08/25                                                                                                        | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |  |  | DIMENSION UNITS |         | SCALE                                                                                 |  |  |  |                                                                      |  |                 |  |                |  |          |  |                 |  |
|  = 0 |                                                                                     |                                                                                                                                               |                                                            |  |  | MM/IN           |         | 2:1                                                                                   |  |                                                                                       |  |                                                                      |  |                 |  |                |  |          |  |                 |  |
|  = 0 |                                                                                     |                                                                                                                                               |                                                            |  |  | MM              | INCH    | DRWN BY                                                                               |  | DATE                                                                                  |  | KK 156 HEADER ASSEMBLY<br>FRICTION LOCK VERTICAL SOLID BODY W/O PEGS |  |                 |  |                |  |          |  |                 |  |
|  = 0 |                                                                                     |                                                                                                                                               | 4 PLACES                                                   |  |  | ±               | ±       | JSCHAFFER                                                                             |  | 2003/11/07                                                                            |  |                                                                      |  |                 |  |                |  |          |  |                 |  |
|  = 0 |                                                                                     |                                                                                                                                               | 3 PLACES                                                   |  |  | ±               | ± 0.015 | CHK'D BY                                                                              |  | DATE                                                                                  |  |                                                                      |  |                 |  |                |  |          |  |                 |  |
|  = 0 |                                                                                     |                                                                                                                                               | 2 PLACES                                                   |  |  | ± 0.25          | ± 0.01  | KSAMIEC                                                                               |  | 2003/11/07                                                                            |  |                                                                      |  |                 |  |                |  |          |  |                 |  |
|  = 0 |                                                                                     |                                                                                                                                               | 1 PLACES                                                   |  |  | ± 0.38          | ±       | APPR BY                                                                               |  | DATE                                                                                  |  |                                                                      |  |                 |  |                |  |          |  |                 |  |
|  = 0 |                                                                                     |                                                                                                                                               | 0 PLACES                                                   |  |  | ±               | ±       | MARGULIS                                                                              |  | 2003/11/07                                                                            |  | PRODUCT CUSTOMER DRAWING                                             |  |                 |  |                |  |          |  |                 |  |
|  = 0 |                                                                                     |                                                                                                                                               | ANGULAR TOL ±                                              |  |  |                 |         | DRAWING SIZE                                                                          |  | THIRD ANGLE PROJECTION                                                                |  |                                                                      |  |                 |  |                |  | SERIES   |  | MATERIAL NUMBER |  |
|  = 0 |                                                                                     |                                                                                                                                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |  | B               |         |  |  |                                                                                       |  | 41791                                                                |  | SEE CHART       |  | GENERAL MARKET |  |          |  |                 |  |
|                                                                                           | R                                                                                   | REV                                                                                                                                           |                                                            |  |  |                 |         |                                                                                       |  |                                                                                       |  |                                                                      |  | DOCUMENT NUMBER |  | DOC TYPE       |  | DOC PART |  | SHEET NUMBER    |  |
|                                                                                           |                                                                                     |                                                                                                                                               |                                                            |  |  |                 |         |                                                                                       |  |                                                                                       |  |                                                                      |  | SDA-41791       |  | PSD            |  | 000      |  | 1 OF *          |  |

|         |              |                   |              |                   |              |                   |              |                   |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group        | A-41791-0002/0018 | Group        | A-41791-0019/0035 | Group        | A-41791-0036/0052 | Group        | A-41791-0059/0074 |
|         | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   |
|         | Pin No:      | 43294-0214        | Pin No:      | 43294-0215        | Pin No:      | 43294-0214        | Pin No:      | 43294-0214        |
|         | Plating:     | 197 – TIN         | Plating:     | 241 – GOLD        | Plating:     | 197 – TIN         | Plating:     | 197 – TIN         |
|         | 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   | 6.85/ .270        | 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    | 4.06/ .160        | Tin Loc T    | OVERALL           | Tin Loc T    | OVERALL           |
|         | Voided Ckts  | NONE              | Voided Ckts  | NONE              | Voided Ckts  | 2                 | Voided Ckts  | 3                 |
|         | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      |
|         |              |                   |              |                   |              |                   |              |                   |
| Ckts    | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   |
| 2       | 26-60-4020   | A-41791-0002      | 26-61-4020   | A-41791-0019      | 26-62-4020   | A-41791-0036      |              |                   |
| 3       | 26-60-4030   | A-41791-0003      | 26-61-4030   | A-41791-0020      | 26-62-4030   | A-41791-0037      | 26-62-4036   | A-41791-0059      |
| 4       | 26-60-4040   | A-41791-0004      | 26-61-4040   | A-41791-0021      | 26-62-4040   | A-41791-0038      | 26-62-4046   | A-41791-0060      |
| 5       | 26-60-4050   | A-41791-0005      | 26-61-4050   | A-41791-0022      | 26-62-4050   | A-41791-0039      | 26-62-4056   | A-41791-0061      |
| 6       | 26-60-4060   | A-41791-0006      | 26-61-4060   | A-41791-0023      | 26-62-4060   | A-41791-0040      | 26-62-4066   | A-41791-0062      |
| 7       | 26-60-4070   | A-41791-0007      | 26-61-4070   | A-41791-0024      | 26-62-4070   | A-41791-0041      | 26-62-4076   | A-41791-0063      |
| 8       | 26-60-4080   | A-41791-0008      | 26-61-4080   | A-41791-0025      | 26-62-4080   | A-41791-0042      | 26-62-4086   | A-41791-0064      |
| 9       | 26-60-4090   | A-41791-0009      | 26-61-4090   | A-41791-0026      | 26-62-4090   | A-41791-0043      | 26-62-4096   | A-41791-0065      |
| 10      | 26-60-4100   | A-41791-0010      | 26-61-4100   | A-41791-0027      | 26-62-4100   | A-41791-0044      | 26-62-4106   | A-41791-0066      |
| 11      | 26-60-4110   | A-41791-0011      | 26-61-4110   | A-41791-0028      | 26-62-4110   | A-41791-0045      | 26-62-4116   | A-41791-0067      |
| 12      | 26-60-4120   | A-41791-0012      | 26-61-4120   | A-41791-0029      | 26-62-4120   | A-41791-0046      | 26-62-4126   | A-41791-0068      |
| 13      | 26-60-4130   | A-41791-0013      | 26-61-4130   | A-41791-0030      | 26-62-4130   | A-41791-0047      | 26-62-4136   | A-41791-0069      |
| 14      | 26-60-4140   | A-41791-0014      | 26-61-4140   | A-41791-0031      | 26-62-4140   | A-41791-0048      | 26-62-4146   | A-41791-0070      |
| 15      | 26-60-4150   | A-41791-0015      | 26-61-4150   | A-41791-0032      | 26-62-4150   | A-41791-0049      | 26-62-4156   | A-41791-0071      |
| 16      | 26-60-4160   | A-41791-0016      | 26-61-4160   | A-41791-0033      | 26-62-4160   | A-41791-0050      | 26-62-4166   | A-41791-0072      |
| 17      | 26-60-4170   | A-41791-0017      | 26-61-4170   | A-41791-0034      | 26-62-4170   | A-41791-0051      | 26-62-4176   | A-41791-0073      |
| 18      | 26-60-4180   | A-41791-0018      | 26-61-4180   | A-41791-0035      | 26-62-4180   | A-41791-0052      | 26-62-4186   | A-41791-0074      |

|                                       |                        |                                                                                            |                             |
|---------------------------------------|------------------------|--------------------------------------------------------------------------------------------|-----------------------------|
| REV:<br><b>R</b>                      | ECM INFORMATION        | TITLE:<br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | SHEET No.<br><b>- 2 -</b>   |
|                                       | ECM NO.: <b>107107</b> |                                                                                            |                             |
|                                       | DATE: <b>9/28/2016</b> |                                                                                            |                             |
| DOCUMENT NUMBER:<br><b>SDA- 41791</b> |                        | CREATED / REVISED BY:<br><b>MKIPPER</b>                                                    | CHECKED BY:<br><b>JBELL</b> |
|                                       |                        | APPROVED BY:<br><b>FSMITH</b>                                                              |                             |

|         |              |                   |              |                   |              |                   |              |                   |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group        | A-41791-0086/0100 | Group        | A-41791-0309/0308 | Group        | A-41791-0464/0480 | Group        | A-41791-0481/0491 |
|         | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0012   |
|         | Pin No:      | 43294-0214        | Pin No:      | 43294-0215        | Pin No:      | 43294-0240        | Pin No:      | 43294-0355        |
|         | Plating:     | 197 – TIN         | Plating:     | 241 – GOLD        | Plating:     | 197 – TIN         | Plating:     | 154 – TIN         |
|         | Pin Length L | 18.29 / .720      | Pin Length L | 18.29 / .720      | Pin Length L | 19.05 / .750      | Pin Length L | 22.35 / .880      |
|         | Mating M     | 11.43 / .450      | Mating M     | 11.43 / .450      | Mating M     | 11.43 / .450      | Mating M     | 11.56 / .455      |
|         | Gold Loc G   | N/A               | Gold Loc G   | 6.85/ .270        | 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    | 4.32 / .170       | PC Tail P    | 7.49 / .295       |
|         | Tin Loc T    | OVERALL           | Tin Loc T    | 4.06/ .160        | Tin Loc T    | OVERALL           | Tin Loc T    | OVERALL           |
|         | Voided Ckts  | 2, 4              | Voided Ckts  | 2                 | Voided Ckts  | NONE              | Voided Ckts  | NONE              |
|         | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-002      |
|         |              |                   |              |                   |              |                   |              |                   |
| Ckts    | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   |
| 2       |              |                   |              |                   | 26-60-4023   | A-41791-0464      | 41791-0481   | A-41791-0481      |
| 3       |              |                   | 26-63-4031   | A-41791-0310      | 26-60-4033   | A-41791-0465      | 41791-0482   | A-41791-0482      |
| 4       | 26-62-4041   | A-41791-0086      |              | A-41791-0311      | 26-60-4043   | A-41791-0466      | 41791-0483   | A-41791-0483      |
| 5       | 26-62-4051   | A-41791-0087      | 26-63-4051   | A-41791-0312      | 26-60-4053   | A-41791-0467      | 41791-0484   | A-41791-0484      |
| 6       | 26-62-4061   | A-41791-0088      | 26-63-4061   | A-41791-0313      | 26-60-4063   | A-41791-0468      | 41791-0485   | A-41791-0485      |
| 7       |              | A-41791-0089      | 26-63-4071   | A-41791-0314      | 26-60-4073   | A-41791-0469      | 41791-0486   | A-41791-0486      |
| 8       | 41791-0090   | A-41791-0090      |              | A-41791-0315      | 26-60-4083   | A-41791-0470      | 41791-0487   | A-41791-0487      |
| 9       |              | A-41791-0091      |              | A-41791-0316      | 26-60-4093   | A-41791-0471      | 41791-0488   | A-41791-0488      |
| 10      | 26-62-4101   | A-41791-0092      |              | A-41791-0317      | 26-60-4103   | A-41791-0472      | 41791-0489   | A-41791-0489      |
| 11      |              | A-41791-0093      |              | A-41791-0318      | 26-60-4113   | A-41791-0473      | 41791-0490   | A-41791-0490      |
| 12      |              | A-41791-0094      |              | A-41791-0319      | 26-60-4123   | A-41791-0474      | 41791-0491   | A-41791-0491      |
| 13      |              | A-41791-0095      |              | A-41791-0320      | 26-60-4133   | A-41791-0475      |              |                   |
| 14      |              | A-41791-0096      |              | A-41791-0321      | 26-60-4143   | A-41791-0476      |              |                   |
| 15      |              | A-41791-0097      |              | A-41791-0322      | 26-60-4153   | A-41791-0477      |              |                   |
| 16      |              | A-41791-0098      |              | A-41791-0323      | 26-60-4163   | A-41791-0478      |              |                   |
| 17      |              | A-41791-0099      |              | A-41791-0324      | 26-60-4173   | A-41791-0479      |              |                   |
| 18      |              | A-41791-0100      |              | A-41791-0325      | 26-60-4183   | A-41791-0480      |              |                   |

|                                                  |                               |                                                                                                       |                                        |                                          |
|--------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
| REV:<br><br><b>R</b>                             | <u>ECM INFORMATION</u>        | <u>TITLE:</u><br><br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | <u>SHEET No.</u><br><br><b>- 3 -</b>   |                                          |
|                                                  | <u>ECM NO.:</u> <b>107107</b> |                                                                                                       |                                        |                                          |
|                                                  | <u>DATE:</u> <b>9/28/2016</b> |                                                                                                       |                                        |                                          |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA- 41791</b> |                               | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>                                                    | <u>CHECKED BY:</u><br><br><b>JBELL</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |

|         |              |                   |              |                   |              |                   |              |                   |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group        | A-41791-0583/0597 | Group        | A-41791-0598/0609 | Group        | A-41791-0638/0653 | Group        | A-41791-0773/0785 |
|         | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0006/0018   |
|         | Pin No:      | 43294-0214        | Pin No:      | 43294-0214        | Pin No:      | 43294-0215        | Pin No:      | 43294-0214        |
|         | Plating:     | 197 – TIN         | Plating:     | 197 – TIN         | Plating:     | 241 – GOLD        | Plating:     | 197-TIN           |
|         | 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  | 4                 | Voided Ckts  | 7                 | Voided Ckts  | 3                 | Voided Ckts  | 3, 6              |
|         | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      |
|         |              |                   |              |                   |              |                   |              |                   |
| Ckts    | Material No  | Engineer Number   | Material No  | Engineer Number   | Material No  | Engineer Number   | Item Number  |                   |
| 2       |              |                   |              |                   |              |                   |              |                   |
| 3       |              |                   |              |                   |              |                   |              |                   |
| 4       | 27-62-4049   | A-41791-0583      |              |                   | 26-63-4032   | A-41791-0638      |              |                   |
| 5       | 27-62-4059   | A-41791-0584      |              |                   | 41791-0639   | A-41791-0639      |              |                   |
| 6       | 27-62-4069   | A-41791-0585      |              |                   | 26-63-4052   | A-41791-0640      |              |                   |
| 7       | 27-62-4079   | A-41791-0586      | 41791-0598   | A-41791-0598      | 26-63-4062   | A-41791-0641      |              |                   |
| 8       | 27-62-4089   | A-41791-0587      | 41791-0599   | A-41791-0599      | 41791-0642   | A-41791-0642      | 41791-0774   |                   |
| 9       | 27-62-4099   | A-41791-0588      | 27-66-4090   | A-41791-0600      | 26-63-4082   | A-41791-0643      |              |                   |
| 10      | 27-62-4109   | A-41791-0589      | 41791-0601   | A-41791-0601      | 41791-0644   | A-41791-0644      |              |                   |
| 11      | 27-62-4119   | A-41791-0590      | 41791-0602   | A-41791-0602      | 41791-0645   | A-41791-0645      |              |                   |
| 12      | 27-62-4129   | A-41791-0591      | 41791-0603   | A-41791-0603      | 41791-0646   | A-41791-0646      |              |                   |
| 13      | 27-62-4139   | A-41791-0592      | 41791-0604   | A-41791-0604      | 41791-0647   | A-41791-0647      |              |                   |
| 14      | 27-62-4149   | A-41791-0593      | 41791-0605   | A-41791-0605      | 41791-0648   | A-41791-0648      |              |                   |
| 15      | 27-62-4159   | A-41791-0594      | 41791-0606   | A-41791-0606      | 41791-0649   | A-41791-0649      |              |                   |
| 16      | 27-62-4169   | A-41791-0595      | 41791-0607   | A-41791-0607      | 41791-0650   | A-41791-0650      |              |                   |
| 17      | 27-62-4179   | A-41791-0596      | 41791-0608   | A-41791-0608      | 41791-0651   | A-41791-0651      |              |                   |
| 18      | 27-62-4189   | A-41791-0597      | 41791-0609   | A-41791-0609      | 41791-0652   | A-41791-0652      |              |                   |
|         |              |                   |              |                   | 41791-0653   | A-41791-0653      |              |                   |

|                                                  |                               |  |                                                                                                       |  |                                        |                                      |                                          |  |
|--------------------------------------------------|-------------------------------|--|-------------------------------------------------------------------------------------------------------|--|----------------------------------------|--------------------------------------|------------------------------------------|--|
| REV:<br><br><b>R</b>                             | <u>ECM INFORMATION</u>        |  | <u>TITLE:</u><br><br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> |  |                                        | <u>SHEET No.</u><br><br><b>- 4 -</b> |                                          |  |
|                                                  | <u>ECM NO.:</u> <b>107107</b> |  |                                                                                                       |  |                                        |                                      |                                          |  |
|                                                  | <u>DATE:</u> <b>9/28/2016</b> |  |                                                                                                       |  |                                        |                                      |                                          |  |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA- 41791</b> |                               |  | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>                                                    |  | <u>CHECKED BY:</u><br><br><b>JBELL</b> |                                      | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |  |

|         |              |                   |              |                   |              |                   |              |                   |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group        | A-41791-0815/0831 | Group        | A-41791-0832/0848 | Group        | A-41791-0849/0865 | Group        | A-41791-0883/0891 |
|         | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0010/0018   |
|         | Pin No:      | 43294-0661        | Pin No:      | 43294-0209        | Pin No:      | 43294-0210        | Pin No:      | 43294-0214        |
|         | Plating:     | 197 – TIN         | Plating:     | 208 – 15 GOLD     | Plating:     | 228 – 30 GOLD     | Plating:     | 197 – TIN         |
|         | Pin Length L | 30.48 / 1.200     | 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   | 6.86/. 270        | Gold Loc G   | 6.86/. 270        | Gold Loc G   | N/A               |
|         | PC Tail P    | 15.75/ .620       | 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    | 4.06/. 160        | Tin Loc T    | 4.06/. 160        | Tin Loc T    | OVERALL           |
|         | Voided Ckts  | NONE              | Voided Ckts  | NONE              | Voided CKts  | NONE              | Voided Ckts  | 10                |
|         | Pack Per     | PK-41791-003      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      |
|         |              |                   |              |                   |              |                   |              |                   |
| Ckts    | Item Number  |                   | Material No  | Engineer Number   | Material No  | Engineer Number   | Item Number  |                   |
| 2       | 41791-0815   |                   | 41791-0832   | A-41791-0832      | 41791-0849   | A-41791-0849      |              |                   |
| 3       | 41791-0816   |                   | 41791-0833   | A-41791-0833      | 41791-0850   | A-41791-0850      |              |                   |
| 4       | 41791-0817   |                   | 41791-0834   | A-41791-0834      | 41791-0851   | A-41791-0851      |              |                   |
| 5       | 41791-0818   |                   | 41791-0835   | A-41791-0835      | 41791-0852   | A-41791-0852      |              |                   |
| 6       | 41791-0819   |                   | 41791-0836   | A-41791-0836      | 41791-0853   | A-41791-0853      |              |                   |
| 7       | 41791-0820   |                   | 41791-0837   | A-41791-0837      | 41791-0854   | A-41791-0854      |              |                   |
| 8       | 41791-0821   |                   | 41791-0838   | A-41791-0838      | 41791-0855   | A-41791-0855      |              |                   |
| 9       | 41791-0822   |                   | 41791-0839   | A-41791-0839      | 41791-0856   | A-41791-0856      |              |                   |
| 10      | 41791-0823   |                   | 41791-0840   | A-41791-0840      | 41791-0857   | A-41791-0857      | 41791-0883   |                   |
| 11      | 41791-0824   |                   | 41791-0841   | A-41791-0841      | 41791-0858   | A-41791-0858      | 41791-0884   |                   |
| 12      | 41791-0825   |                   | 41791-0842   | A-41791-0842      | 41791-0859   | A-41791-0859      | 41791-0885   |                   |
| 13      | 41791-0826   |                   | 41791-0843   | A-41791-0843      | 41791-0860   | A-41791-0860      | 41791-0886   |                   |
| 14      | 41791-0827   |                   | 41791-0844   | A-41791-0844      | 41791-0861   | A-41791-0861      | 41791-0887   |                   |
| 15      | 41791-0828   |                   | 41791-0845   | A-41791-0845      | 41791-0862   | A-41791-0862      | 41791-0888   |                   |
| 16      | 41791-0829   |                   | 41791-0846   | A-41791-0846      | 41791-0863   | A-41791-0863      | 41791-0889   |                   |
| 17      | 41791-0830   |                   | 41791-0847   | A-41791-0847      | 41791-0864   | A-41791-0864      | 41791-0890   |                   |
| 18      | 41791-0831   |                   | 41791-0848   | A-41791-0848      | 41791-0865   | A-41791-0865      | 41791-0891   |                   |

|                   |                 |                       |                                                                                  |              |               |
|-------------------|-----------------|-----------------------|----------------------------------------------------------------------------------|--------------|---------------|
| REV:              | ECM INFORMATION | TITLE:                | <b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> |              | SHEET No.     |
| <b>R</b>          | ECM NO.: 107107 |                       |                                                                                  |              | <b>- 5 -</b>  |
|                   | DATE: 9/28/2016 |                       |                                                                                  |              |               |
| DOCUMENT NUMBER:  |                 | CREATED / REVISED BY: |                                                                                  | CHECKED BY:  | APPROVED BY:  |
| <b>SDA- 41791</b> |                 | <b>MKIPPER</b>        |                                                                                  | <b>JBELL</b> | <b>FSMITH</b> |

|         |              |                   |              |                   |              |                 |              |                 |
|---------|--------------|-------------------|--------------|-------------------|--------------|-----------------|--------------|-----------------|
| OPTIONS | Group        | A-41791-0892/0908 | Group        | A-41791-0922/0933 | Group        | 41791-0934/0948 | Group        | 41791-0966/0976 |
|         | Header No:   | 41790-0002/0018   | Header No:   | 41790-0007/0018   | Header No:   | 41790-0004/0018 | Header No:   | 41790-0007/0018 |
|         | Pin No:      | 43294-0299        | Pin No:      | 43294-0214        | Pin No:      | 43294-0209      | Pin No:      | 43294-0214      |
|         | Plating:     | 208 – 15 GOLD     | Plating:     | 197 – TIN         | Plating:     | 208 – 15 GOLD   | Plating:     | 197 – TIN       |
|         | Pin Length L | 20.83 / .820      | 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   | 6.83/. 270        | Gold Loc G   | N/A               | Gold Loc G   | 6.86/ .270      | Gold Loc G   | N/A             |
|         | PC Tail P    | 6.10/ .240        | PC Tail P    | 3.56 / .140       | PC Tail P    | 3.56/. 140      | PC Tail P    | 3.56/. 140      |
|         | Tin Loc T    | 6.35/ .250        | Tin Loc T    | OVERALL           | Tin Loc T    | 4.06/. 160      | Tin Loc T    | OVERALL         |
|         | Voided Ckts  | NONE              | Voided Ckts  | 5, 7              | Voided Ckts  | 4               | Voided Ckts  | 3, 7, 8         |
|         | Pack Per     | PK-41791-002      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001    | Pack Per     | PK-41791-001    |
|         |              |                   |              |                   |              |                 |              |                 |
| Ckts    | Item Number  |                   | Item Number  |                   | Item Number  |                 | Item Number  |                 |
| 2       | 41791-0892   |                   |              |                   |              |                 |              |                 |
| 3       | 41791-0893   |                   |              |                   |              |                 |              |                 |
| 4       | 41791-0894   |                   |              |                   | 41791-0934   |                 |              |                 |
| 5       | 41791-0895   |                   |              |                   | 41791-0935   |                 |              |                 |
| 6       | 41791-0896   |                   |              |                   | 41791-0936   |                 |              |                 |
| 7       | 41791-0897   |                   | 41791-0922   |                   | 41791-0937   |                 |              |                 |
| 8       | 41791-0898   |                   | 41791-0923   |                   | 41791-0938   |                 | 41791-0966   |                 |
| 9       | 41791-0899   |                   | 41791-0924   |                   | 41791-0939   |                 | 41791-0967   |                 |
| 10      | 41791-0900   |                   | 41791-0925   |                   | 41791-0940   |                 | 41791-0968   |                 |
| 11      | 41791-0901   |                   | 41791-0926   |                   | 41791-0941   |                 | 41791-0969   |                 |
| 12      | 41791-0902   |                   | 41791-0927   |                   | 41791-0942   |                 | 41791-0970   |                 |
| 13      | 41791-0903   |                   | 41791-0928   |                   | 41791-0943   |                 | 41791-0971   |                 |
| 14      | 41791-0904   |                   | 41791-0929   |                   | 41791-0944   |                 | 41791-0972   |                 |
| 15      | 41791-0905   |                   | 41791-0930   |                   | 41791-0945   |                 | 41791-0973   |                 |
| 16      | 41791-0906   |                   | 41791-0931   |                   | 41791-0946   |                 | 41791-0974   |                 |
| 17      | 41791-0907   |                   | 41791-0932   |                   | 41791-0947   |                 | 41791-0975   |                 |
| 18      | 41791-0908   |                   | 41791-0933   |                   | 41791-0948   |                 | 41791-0976   |                 |

|                                                  |                                                    |                                                                                                       |                                          |
|--------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------|
| REV:<br><br><b>R</b>                             | <u>ECM INFORMATION</u>                             | <u>TITLE:</u><br><br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | <u>SHEET No.</u><br><br><b>- 6 -</b>     |
|                                                  | <u>ECM NO.:</u> <b>107107</b>                      |                                                                                                       |                                          |
|                                                  | <u>DATE:</u> <b>9/28/2016</b>                      |                                                                                                       |                                          |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA- 41791</b> | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b> | <u>CHECKED BY:</u><br><br><b>JBELL</b>                                                                | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |

|         |              |                 |              |                   |              |                     |              |                   |
|---------|--------------|-----------------|--------------|-------------------|--------------|---------------------|--------------|-------------------|
| OPTIONS | Group        | 41791-0977/0993 | Group        | 41791-0994/1002   | Group        | A-41791-1036 / 1048 | Group        | A-41791-1049/1062 |
|         | Header No:   | 41790-0002/0018 | Header No:   | 41790-0010/0018   | Header No:   | 41790-0006 / 0018   | Header No:   | 41790-0005/0018   |
|         | Pin No:      | 43294-0345      | Pin No:      | 43294-0209        | Pin No:      | 43294-0214          | Pin No:      | 43294-0214        |
|         | Plating:     | 228 – 30 GOLD   | Plating:     | 208 – 15 GOLD     | Plating:     | 197 – TIN           | Plating:     | 197 – TIN         |
|         | Pin Length L | 22.10/. 870     | 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   | 10.02/. 400     | Gold Loc G   | 6.86/ .270        | Gold Loc G   | N/A                 | Gold Loc G   | N/A               |
|         | PC Tail P    | 7.37/. 290      | PC Tail P    | 3.56/. 140        | PC Tail P    | 3.56 / .140         | PC Tail P    | 3.56 / .140       |
|         | Tin Loc T    | 5.08/. 200      | Tin Loc T    | 4.06/. 160        | Tin Loc T    | OVERALL             | Tin Loc T    | OVERALL           |
|         | Voided Ckts  | None            | Voided Ckts  | 3, 4, 5, 8, 9, 10 | Voided Ckts  | 4, 6                | Voided Ckts  | 2, 5              |
|         | Pack Per     | PK-41791-002    | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001        | Pack Per     | PK-41791-001      |
|         |              |                 |              |                   |              |                     |              |                   |
| Ckts    | Item Number  |                 | Item Number  |                   | Material No  | Engineer Number     | Item Number  |                   |
| 2       | 41791-0977   |                 |              |                   |              |                     |              |                   |
| 3       | 41791-0978   |                 |              |                   |              |                     |              |                   |
| 4       | 41791-0979   |                 |              |                   |              |                     |              |                   |
| 5       | 41791-0980   |                 |              |                   |              |                     |              |                   |
| 6       | 41791-0981   |                 |              |                   |              | A-41791-1036        |              |                   |
| 7       | 41791-0982   |                 |              |                   | 41791-1037   | A-41791-1037        | 41791-1051   |                   |
| 8       | 41791-0983   |                 |              |                   | 41791-1038   | A-41791-1038        |              |                   |
| 9       | 41791-0984   |                 |              |                   |              | A-41791-1039        |              |                   |
| 10      | 41791-0985   |                 | 41791-0994   |                   |              | A-41791-1040        |              |                   |
| 11      | 41791-0986   |                 | 41791-0995   |                   |              | A-41791-1041        |              |                   |
| 12      | 41791-0987   |                 | 41791-0996   |                   |              | A-41791-1042        |              |                   |
| 13      | 41791-0988   |                 | 41791-0997   |                   |              | A-41791-1043        |              |                   |
| 14      | 41791-0989   |                 | 41791-0998   |                   |              | A-41791-1044        |              |                   |
| 15      | 41791-0990   |                 | 41791-0999   |                   |              | A-41791-1045        |              |                   |
| 16      | 41791-0991   |                 | 41791-1000   |                   |              | A-41791-1046        |              |                   |
| 17      | 41791-0992   |                 | 41791-1001   |                   |              | A-41791-1047        |              |                   |
| 18      | 41791-0993   |                 | 41791-1002   |                   |              | A-41791-1048        |              |                   |

|                                                  |                               |                                                                                                       |                                        |                                          |
|--------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
| REV:<br><br><b>R</b>                             | <u>ECM INFORMATION</u>        | <u>TITLE:</u><br><br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | <u>SHEET No.</u><br><br><b>- 7 -</b>   |                                          |
|                                                  | <u>ECM NO.:</u> <b>107107</b> |                                                                                                       |                                        |                                          |
|                                                  | <u>DATE:</u> <b>9/28/2016</b> |                                                                                                       |                                        |                                          |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA- 41791</b> |                               | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>                                                    | <u>CHECKED BY:</u><br><br><b>JBELL</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |

|         |              |                   |              |                   |              |                   |              |                 |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-----------------|
| OPTIONS | Group        | A-41791-1063/1071 | Group        | A-41791-1074/1088 | Group        | A-41791-1089/1105 | Group        | A-41791-1107    |
|         | Header No:   | 41790-0010/0018   | Header No:   | 41790-0004/0018   | Header No:   | 41790-0002/0018   | Header No:   | 41790-0006/0018 |
|         | Pin No:      | 43294-0214        | Pin No:      | 43294-0215        | Pin No:      | 43294-0212        | Pin No:      | 43294-0213      |
|         | Plating:     | 197 – TIN         | Plating:     | 241 – GOLD        | Plating:     | 222 – TIN         | Plating:     | 154 – TIN       |
|         | 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   | 6.85/ .270        | 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    | 4.06/ .160        | Tin Loc T    | OVERALL           | Tin Loc T    | OVERALL         |
|         | Voided Ckts  | 5, 10             | Voided Ckts  | 2, 3, 4           | Voided Ckts  | NONE              | Voided Ckts  | 6               |
|         | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001    |
|         |              |                   |              |                   |              |                   |              |                 |
| Ckts    | Item Number  |                   | Item Number  |                   | Item Number  |                   | Item Number  |                 |
| 2       |              |                   |              |                   | 41791-1089   |                   |              |                 |
| 3       |              |                   |              |                   | 41791-1090   |                   |              |                 |
| 4       |              |                   |              |                   | 41791-1091   |                   |              |                 |
| 5       |              |                   | 41791-1075   |                   |              |                   |              |                 |
| 6       |              |                   |              |                   | 41791-1093   |                   |              |                 |
| 7       |              |                   |              |                   |              |                   | 41791-1107   |                 |
| 8       |              |                   |              |                   | 41791-1095   |                   |              |                 |
| 9       |              |                   |              |                   | 41791-1096   |                   |              |                 |
| 10      |              |                   |              |                   | 41791-1097   |                   |              |                 |
| 11      | 41791-1064   |                   |              |                   | 41791-1098   |                   |              |                 |
| 12      |              |                   |              |                   | 41791-1099   |                   |              |                 |
| 13      |              |                   |              |                   |              |                   |              |                 |
| 14      |              |                   |              |                   |              |                   |              |                 |
| 15      |              |                   |              |                   |              |                   |              |                 |
| 16      |              |                   |              |                   | 41791-1103   |                   |              |                 |
| 17      |              |                   |              |                   |              |                   |              |                 |
| 18      |              |                   |              |                   | 41791-1105   |                   |              |                 |

|                   |                 |                       |                                                                                  |               |              |
|-------------------|-----------------|-----------------------|----------------------------------------------------------------------------------|---------------|--------------|
| REV:              | ECM INFORMATION | TITLE:                | <b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> |               | SHEET No.    |
| <b>R</b>          | ECM NO.: 107107 |                       |                                                                                  |               | <b>- 8 -</b> |
|                   | DATE: 9/28/2016 |                       |                                                                                  |               |              |
| DOCUMENT NUMBER:  |                 | CREATED / REVISED BY: | CHECKED BY:                                                                      | APPROVED BY:  |              |
| <b>SDA- 41791</b> |                 | <b>MKIPPER</b>        | <b>JBELL</b>                                                                     | <b>FSMITH</b> |              |

|         |              |              |              |              |              |               |              |              |
|---------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|
| OPTIONS | Group        | A-41791-1120 | Group        | A-41791-1134 | Group        | A-41791-1150  | Group        | A-41791-1165 |
|         | Header No:   | 41790-0006   | Header No:   | 41790-0004   | Header No:   | 41790-0005    | Header No:   | 41790-0006   |
|         | Pin No:      | 43294-0213   | Pin No:      | 43294-0213   | Pin No:      | 43294-0210    | Pin No:      | 43294-0239   |
|         | Plating:     | 154 – TIN    | Plating:     | 154 – TIN    | Plating:     | 228 – 30 GOLD | Plating:     | 154 – TIN    |
|         | Pin Length L | 18.29 / .720 | Pin Length L | 18.29 / .720 | Pin Length L | 18.29/. 720   | Pin Length L | 19.05 / .750 |
|         | 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    | 4.32 / .170  |
|         | Tin Loc T    | OVERALL      | Tin Loc T    | OVERALL      | Tin Loc T    | 4.06/. 160    | Tin Loc T    | OVERALL      |
|         | Voided Ckts  | 2, 5         | Voided Ckts  | 2, 3         | Voided Ckts  | 2, 4          | Voided Ckts  | 2, 3, 5      |
|         | Pack Per     | PK-41791-001 | Pack Per     | PK-41791-001 | Pack Per     | PK-41791-001  | Pack Per     | PK-41791-001 |
|         | Item Number  |              | Item Number  |              | Item Number  |               | Item Number  |              |
| Ckts    |              |              |              |              |              |               |              |              |
| 2       |              |              |              |              |              |               |              |              |
| 3       |              |              |              |              |              |               |              |              |
| 4       |              |              | 41791-1134   |              |              |               |              |              |
| 5       |              |              |              |              | 41791-1150   |               |              |              |
| 6       | 41791-1120   |              |              |              |              |               | 41791-1165   |              |
| 7       |              |              |              |              |              |               |              |              |
| 8       |              |              |              |              |              |               |              |              |
| 9       |              |              |              |              |              |               |              |              |
| 10      |              |              |              |              |              |               |              |              |
| 11      |              |              |              |              |              |               |              |              |
| 12      |              |              |              |              |              |               |              |              |
| 13      |              |              |              |              |              |               |              |              |
| 14      |              |              |              |              |              |               |              |              |
| 15      |              |              |              |              |              |               |              |              |
| 16      |              |              |              |              |              |               |              |              |
| 17      |              |              |              |              |              |               |              |              |
| 18      |              |              |              |              |              |               |              |              |

|                                       |                 |                                                                                                |                               |
|---------------------------------------|-----------------|------------------------------------------------------------------------------------------------|-------------------------------|
| REV:<br><br><b>R</b>                  | ECM INFORMATION | TITLE:<br><br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | SHEET No.<br><br><b>- 9 -</b> |
|                                       | ECM NO.: 107107 |                                                                                                |                               |
|                                       | DATE: 9/28/2016 |                                                                                                |                               |
| DOCUMENT NUMBER:<br><b>SDA- 41791</b> |                 | CREATED / REVISED BY:<br><b>MKIPPER</b>                                                        | CHECKED BY:<br><b>JBELL</b>   |
|                                       |                 | APPROVED BY:<br><b>FSMITH</b>                                                                  |                               |

|         |              |                 |              |                 |              |                 |              |                 |
|---------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| OPTIONS | Group        | A-41791-1179    | Group        | A-41791-1189    | Group        | A-41791-1203    | Group        | A-41791-1215    |
|         | Header No:   | 41790-0008/0018 | Header No:   | 41790-0006/0018 | Header No:   | 41790-0009/0018 | Header No:   | 41790-0006/0018 |
|         | Pin No:      | 43294-0214      | Pin No:      | 43294-0240      | Pin No:      | 43294-0240      | Pin No:      | 43294-0240      |
|         | Plating:     | 197 – TIN       | Plating:     | 197 – TIN       | Plating:     | 197 – TIN       | Plating:     | 197 – TIN       |
|         | Pin Length L | 18.29 / .720    | Pin Length L | 19.05 / .750    | Pin Length L | 19.05 / .750    | Pin Length L | 19.05 / .750    |
|         | 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    | 4.32 / .170     | PC Tail P    | 4.32 / .170     | PC Tail P    | 4.32 / .170     |
|         | Tin Loc T    | OVERALL         | Tin Loc T    | OVERALL         | Tin Loc T    | OVERALL         | Tin Loc T    | OVERALL         |
|         | Voided Ckts  | 2,4,8           | Voided Ckts  | 2,3,4,5         | Voided Ckts  | 4,5,7,9         | Voided Ckts  | 2,4,6           |
|         | Pack Per     | PK-41791-001    | Pack Per     | PK-41791-001    | Pack Per     | PK-41791-001    | Pack Per     | PK-41791-001    |
|         |              |                 |              |                 |              |                 |              |                 |
| Ckts    | Item Number  |                 | Item Number  |                 | Item Number  |                 | Item Number  |                 |
| 2       |              |                 |              |                 |              |                 |              |                 |
| 3       |              |                 |              |                 |              |                 |              |                 |
| 4       |              |                 |              |                 |              |                 |              |                 |
| 5       |              |                 |              |                 |              |                 |              |                 |
| 6       |              |                 | 41791-1189   |                 |              |                 |              |                 |
| 7       |              |                 |              |                 |              |                 |              |                 |
| 8       |              |                 |              |                 |              |                 |              |                 |
| 9       | 41791-1179   |                 |              |                 |              |                 | 41791-1215   |                 |
| 10      |              |                 |              |                 | 41791-1203   |                 |              |                 |
| 11      |              |                 |              |                 |              |                 |              |                 |
| 12      |              |                 |              |                 |              |                 |              |                 |
| 13      |              |                 |              |                 |              |                 |              |                 |
| 14      |              |                 |              |                 |              |                 |              |                 |
| 15      |              |                 |              |                 |              |                 |              |                 |
| 16      |              |                 |              |                 |              |                 |              |                 |
| 17      |              |                 |              |                 |              |                 |              |                 |
| 18      |              |                 |              |                 |              |                 |              |                 |

|                                                  |                               |                                                                                                       |                                        |                                          |  |
|--------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|--|
| REV:<br><br><b>R</b>                             | <u>ECM INFORMATION</u>        | <u>TITLE:</u><br><br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | <u>SHEET No.</u><br><br><b>- 10 -</b>  |                                          |  |
|                                                  | <u>ECM NO.:</u> <b>107107</b> |                                                                                                       |                                        |                                          |  |
|                                                  | <u>DATE:</u> <b>9/28/2016</b> |                                                                                                       |                                        |                                          |  |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA- 41791</b> |                               | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>                                                    | <u>CHECKED BY:</u><br><br><b>JBELL</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |  |

|         |              |                 |              |              |              |              |              |                   |
|---------|--------------|-----------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| OPTIONS | Group        | A-41791-1228    | Group        | A-41791-1240 | Group        | A-41791-1256 | Group        | A-41791-1264/1274 |
|         | Header No:   | 41790-0005/0018 | Header No:   | 41790-0007   | Header No:   | 41790-0012   | Header No:   | 41790-0004/0014   |
|         | Pin No:      | 43294-0214      | Pin No:      | 43294-0214   | Pin No:      | 43294-0214   | Pin No:      | 43294-0214        |
|         | Plating:     | 197 – TIN       | Plating:     | 197 – TIN    | Plating:     | 197 – TIN    | Plating:     | 197 – TIN         |
|         | 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  | 4,5             | Voided Ckts  | 2,3,5,6      | Voided Ckts  | 8            | Voided Ckts  | 2,3               |
|         | Pack Per     | PK-41791-001    | Pack Per     | PK-41791-001 | Pack Per     | PK-41791-001 | Pack Per     | PK-41791-001      |
|         |              |                 |              |              |              |              |              |                   |
| Ckts    | Item Number  |                 | Item Number  |              | Item Number  |              | Item Number  |                   |
| 2       |              |                 |              |              |              |              |              |                   |
| 3       |              |                 |              |              |              |              |              |                   |
| 4       |              |                 |              |              |              |              | 41791-1264   |                   |
| 5       |              |                 |              |              |              |              |              |                   |
| 6       |              |                 |              |              |              |              |              |                   |
| 7       |              |                 | 41791-1240   |              |              |              |              |                   |
| 8       | 41791-1228   |                 |              |              |              |              |              |                   |
| 9       |              |                 |              |              |              |              |              |                   |
| 10      |              |                 |              |              |              |              |              |                   |
| 11      |              |                 |              |              |              |              |              |                   |
| 12      |              |                 |              |              | 41791-1256   |              |              |                   |
| 13      |              |                 |              |              |              |              |              |                   |
| 14      |              |                 |              |              |              |              | 41791-1274   |                   |
| 15      |              |                 |              |              |              |              |              |                   |
| 16      |              |                 |              |              |              |              |              |                   |
| 17      |              |                 |              |              |              |              |              |                   |
| 18      |              |                 |              |              |              |              |              |                   |

|                                                  |                               |                                                                                                       |                                        |                                          |  |
|--------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|--|
| REV:<br><br><b>R</b>                             | <u>ECM INFORMATION</u>        | <u>TITLE:</u><br><br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | <u>SHEET No.</u><br><br><b>- 11 -</b>  |                                          |  |
|                                                  | <u>ECM NO.:</u> <b>107107</b> |                                                                                                       |                                        |                                          |  |
|                                                  | <u>DATE:</u> <b>9/28/2016</b> |                                                                                                       |                                        |                                          |  |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA- 41791</b> |                               | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>                                                    | <u>CHECKED BY:</u><br><br><b>JBELL</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |  |

|         |              |              |              |                   |              |              |              |              |
|---------|--------------|--------------|--------------|-------------------|--------------|--------------|--------------|--------------|
| OPTIONS | Group        | A-41791-1285 | Group        | A-41791-1307/1316 | Group        | A-41791-1318 | Group        | A-41791-1333 |
|         | Header No:   | 41790-0017   | Header No:   | 41790-0009/0018   | Header No:   | 41790-0005   | Header No:   | 41790-0007   |
|         | Pin No:      | 43294-0214   | Pin No:      | 43294-0214        | Pin No:      | 43294-0214   | Pin No:      | 43294-0214   |
|         | Plating:     | 197 – TIN    | Plating:     | 197 – TIN         | Plating:     | 197 – TIN    | Plating:     | 197 – TIN    |
|         | 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  | 11           | Voided Ckts  | 5,9               | Voided Ckts  | 2,3,4        | Voided Ckts  | 3,5,6        |
|         | Pack Per     | PK-41791-001 | Pack Per     | PK-41791-001      | Pack Per     | PK-41791-001 | Pack Per     | PK-41791-001 |
|         |              |              |              |                   |              |              |              |              |
| Ckts    | Item Number  |              | Item Number  |                   | Item Number  |              | Item Number  |              |
| 2       |              |              |              |                   |              |              |              |              |
| 3       |              |              |              |                   |              |              |              |              |
| 4       |              |              |              |                   |              |              |              |              |
| 5       |              |              |              |                   | 41791-1318   |              |              |              |
| 6       |              |              |              |                   |              |              |              |              |
| 7       |              |              |              |                   |              |              | 41791-1333   |              |
| 8       |              |              |              |                   |              |              |              |              |
| 9       |              |              |              |                   |              |              |              |              |
| 10      |              |              |              |                   |              |              |              |              |
| 11      |              |              |              |                   |              |              |              |              |
| 12      |              |              |              |                   |              |              |              |              |
| 13      |              |              |              |                   |              |              |              |              |
| 14      |              |              | 41791-1312   |                   |              |              |              |              |
| 15      |              |              |              |                   |              |              |              |              |
| 16      |              |              |              |                   |              |              |              |              |
| 17      | 41791-1285   |              |              |                   |              |              |              |              |
| 18      |              |              |              |                   |              |              |              |              |

|                                                  |                               |                                                                                                       |                                        |                                          |
|--------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
| REV:<br><br><b>R</b>                             | <u>ECM INFORMATION</u>        | <u>TITLE:</u><br><br><b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | <u>SHEET No.</u><br><br><b>- 12 -</b>  |                                          |
|                                                  | <u>ECM NO.:</u> <b>107107</b> |                                                                                                       |                                        |                                          |
|                                                  | <u>DATE:</u> <b>9/28/2016</b> |                                                                                                       |                                        |                                          |
| <u>DOCUMENT NUMBER:</u><br><br><b>SDA- 41791</b> |                               | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>                                                    | <u>CHECKED BY:</u><br><br><b>JBELL</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |

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