

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0417910832

Status:

Active

Overview:

kk

Description:

3.96mm (.156") Pitch KK® Solid Header, Vertical, Friction Lock, 2 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating

Documents:

3D Model

Packaging Specification (PDF)

Drawing (PDF)

Product Specification PS-08-50 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

General

|                |               |
|----------------|---------------|
| Product Family | PCB Headers   |
| Series         | 41791         |
| Application    | Wire-to-Board |
| Overview       | kk            |
| Product Name   | KK®           |

Physical

|                                |              |
|--------------------------------|--------------|
| Breakaway                      | No           |
| Circuits (Loaded)              | 2            |
| Circuits (maximum)             | 2            |
| Color - Resin                  | Natural      |
| Durability (mating cycles max) | 50           |
| Flammability                   | 94V-0        |
| Glow-Wire Compliant            | No           |
| Lock to Mating Part            | Yes          |
| Material - Metal               | Brass        |
| Material - Plating Mating      | Gold         |
| Material - Resin               | Polyester    |
| Number of Rows                 | 1            |
| Orientation                    | Vertical     |
| PC Tail Length (in)            | 0.140 In     |
| PC Tail Length (mm)            | 3.56 mm      |
| PCB Locator                    | No           |
| PCB Retention                  | None         |
| PCB Thickness Recommended (in) | 0.062 In     |
| PCB Thickness Recommended (mm) | 1.60 mm      |
| Packaging Type                 | Bag          |
| Pitch - Mating Interface (in)  | 0.156 In     |
| Pitch - Mating Interface (mm)  | 3.96 mm      |
| Plating min: Mating (µin)      | 15           |
| Plating min: Mating (µm)       | 0.38         |
| Polarized to Mating Part       | Yes          |
| Polarized to PCB               | No           |
| Shrouded                       | Partial      |
| Stackable                      | Yes          |
| Temperature Range - Operating  | 0°C to +75°C |
| Termination Interface: Style   | Through Hole |

Electrical

|                               |    |
|-------------------------------|----|
| Current - Maximum per Contact | 7A |
|-------------------------------|----|

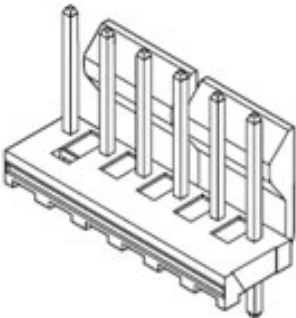


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

China RoHS



Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

41791Series

Mates With

3069 , 2139 , 2145 , 6442 , 7674 , 7675 , 41695 , L ink:41815

|                   |      |
|-------------------|------|
| Voltage - Maximum | 250V |
|-------------------|------|

**Solder Process Data**

|                                                |                        |
|------------------------------------------------|------------------------|
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 235                    |

**Material Info**

**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-41791-001 |
| Product Specification   | PS-08-50     |
| Sales Drawing           | SDA-41791    |

This document was generated on 05/24/2010

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10

9

8

7

6

5

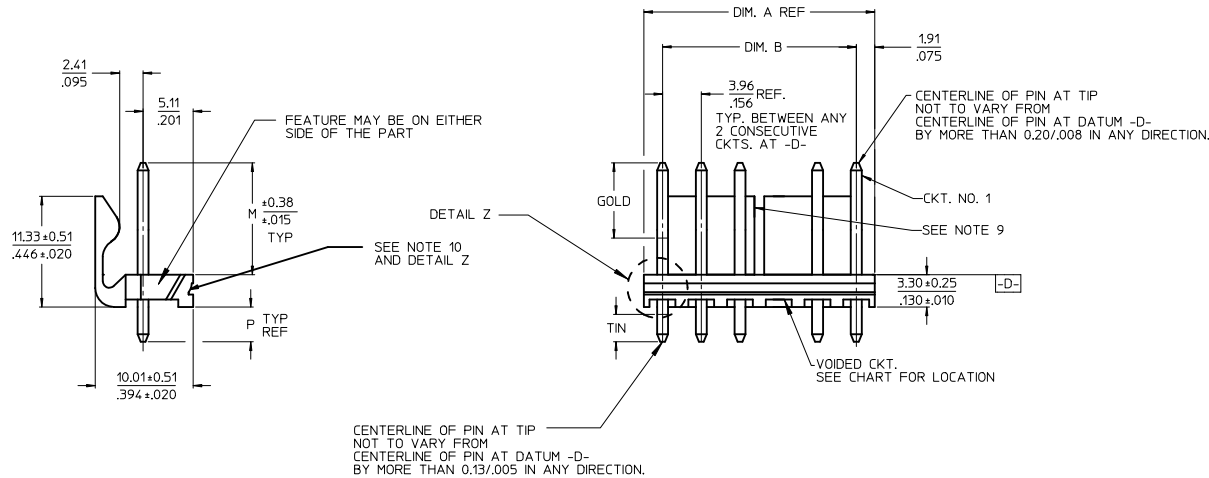
4

3

2

41791

| CKT | DIM. A         | DIM. B                   | SLOT LOC 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      |

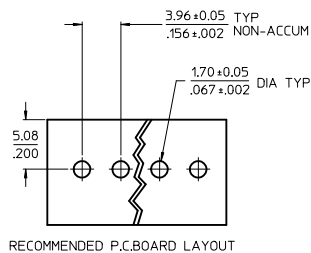
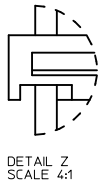


## NOTES:

- MATERIAL: HEADER-GLASS FILLED POLYESTER, 94V-0, MOLDED NATURAL (WHITE).
- FINISH: (102-TIN) OVERALL TIN: 0.00508/.000200 MIN OVER 0.00254/.000100 MIN COPPER.  
(154-TIN) OVERALL TIN: 0.00254/.000100 MIN OVER 0.00127/.000050 MIN NICKEL.  
(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.  
(501-GOLD) OVERALL GOLD: 0.00051/.000020 MIN OVER 0.00076/.000030 MIN NICKEL.

\*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.

- PRODUCT SPECIFICATION AND PROCESS PARAMETERS: SEE PS-08-50.
- PACKAGING INFORMATION: SEE CHARTS.
- SOLDERABILITY: PER SMES-152.
- PIN PUSH-OUT FORCE: PRIOR TO SOLDERING, A 3 LB. MINIMUM FORCE (IN EITHER DIRECTION)
- PARTS ARE STACKABLE END TO END ON 3.96/.156 CENTERS.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
- SLOTS ON BACKWALL ARE BETWEEN CIRCUITS. SEE CHART FOR LOCATION.
- FEATURE MAY OR MAY NOT EXTEND ACROSS THE ENTIRE FACE OF THE PART "SEE DETAIL Z".



|     |     |
|-----|-----|
| 2-* | P16 |
| 1   | P16 |
| SHT | REV |

|                |                     |            |
|----------------|---------------------|------------|
| ADD 41791-1150 | EC NO: UCP2010-1453 | 2010/01/28 |
| DRWN:MK/PPR    | 2010/02/02          |            |
| CHKD:SSOUSEK   | 2010/02/02          |            |
| APPR:FSMITH    | 2010/02/02          |            |
| P16            |                     |            |

|                 |
|-----------------|
| QUALITY SYMBOLS |
| ▽=0             |
| ▽=0             |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |
|------------------------------------------------------|
| DIMENSION STYLE                                      |
| MM/IN                                                |
| 4 PLACES ± --- ± ---                                 |
| 3 PLACES ± --- ± .010                                |
| 2 PLACES ± 0.25 ± .015                               |
| 1 PLACE ± 0.38 ± ---                                 |
| ANGULAR ± 1/2°                                       |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |

|              |          |
|--------------|----------|
| DRAWN BY     | DATE     |
| JSCHAFFER    | 11-07-03 |
| CHECKED BY   | DATE     |
| KSAMIEC      | 11-10-03 |
| APPROVED BY  | DATE     |
| MARGULIS     | 11-17-03 |
| MATERIAL NO. |          |
| SEE CHART    |          |
| SIZE         | B        |

|              |                                                                         |
|--------------|-------------------------------------------------------------------------|
| SCALE        | 2:1                                                                     |
| DESIGN UNITS | INCH                                                                    |
| TITLE        | KK 156 HEADER ASSEMBLY<br>FRICTION LOCK VERTICAL<br>SOLID BODY W/O PEGS |
| MOLEX        | MOLEX INCORPORATED                                                      |
| DOCUMENT NO. | SDA-41791                                                               |

|                                                                                  |                                                                                                                 |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| DESIGN UNITS<br>INCH                                                             |  THIRD ANGLE<br>PROJECTION |
| K 156 HEADER ASSEMBLY<br>FRICTION LOCK VERTICAL<br>SOLID BODY W/O PEGS           |                                                                                                                 |
| MOLEX INCORPORATED                                                               |                                                                                                                 |
| NO.<br>SDA-41791                                                                 | SHEET NO.<br>1 OF *                                                                                             |
| FORMATION THAT IS PROPRIETARY TO MOLEX<br>NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                                 |

|         |              |                   |              |                   |              |                   |              |                   |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| 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:      | 2161-94(102)      | Pin No:      | 2161-94(501)      | Pin No:      | 2161-94(102)      | Pin No:      | 2161-94(102)      |
|         | Plating:     | 102 – TIN         | Plating:     | 501 – GOLD        | Plating:     | 102 – TIN         | Plating:     | 102 – 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   | OVERALL           | 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    | N/A               | 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><br><b>P16</b>                           | <u>ECR/ECN 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>- 2 -</b> |                                          |  |
|                                                  | <u>EC NO.:</u> <b>UCP2010-1453</b> |  |                                                                                                       |  |                                          |                                      |                                          |  |
|                                                  | <u>DATE:</u> <b>2/2/2010</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>SSOUSEK</b> |                                      | <u>APPROVED BY:</u><br><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:      | 2161-94(102)      | Pin No:      | 2161-94(501)      | Pin No:      | 2161-1(102)       | Pin No:      | 2161-26(154)      |
|         | Plating:     | 102 – TIN         | Plating:     | 501 – GOLD        | Plating:     | 102 – 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 | 22.23 / .875      |
|         | 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   | OVERALL           | 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    | N/A               | 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       |              | 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:              | ECR/ECN INFORMATION   | TITLE:                                                                           | SHEET No.     |
| <b>P16</b>        | EC NO.: UCP2010-1453  | <b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> | <b>- 3 -</b>  |
| DATE: 2/2/2010    |                       |                                                                                  |               |
| DOCUMENT NUMBER:  | CREATED / REVISED BY: | CHECKED BY:                                                                      | APPROVED BY:  |
| <b>SDA- 41791</b> | <b>MKIPPER</b>        | <b>SSOUSEK</b>                                                                   | <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:      | 2161-94(102)      | Pin No:      | 2161-94(102)      | Pin No:      | 2161-94(501)      | Pin No:      | 2161-94(102)      |
|         | Plating:     | 102 – TIN         | Plating:     | 102 – TIN         | Plating:     | 501 – GOLD        | Plating:     | 102-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   | OVERALL           | 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    | N/A               | 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      | 41791-0600   | 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>P16</b>                           | <u>ECR/ECN 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>EC NO.:</u> <b>UCP2010-1453</b> |                                                    |                                                                                                       |                                          |
|                                                  | <u>DATE:</u> <b>2/2/2010</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>SSOUSEK</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:      | 2161-36(102)      | Pin No:      | 43294-0209        | Pin No:      | 43294-0210        | Pin No:      | 2161-94(102)      |
|         | Plating:     | 102 – TIN         | Plating:     | 208 – 15 GOLD     | Plating:     | 228 – 30 GOLD     | Plating:     | 102 – 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:              | ECR/ECN INFORMATION  | TITLE:                | <b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> |               | SHEET No.    |
| <b>P16</b>        | EC NO.: UCP2010-1453 |                       |                                                                                  |               | <b>- 5 -</b> |
|                   | DATE: 2/2/2010       |                       |                                                                                  |               |              |
| DOCUMENT NUMBER:  |                      | CREATED / REVISED BY: | CHECKED BY:                                                                      | APPROVED BY:  |              |
| <b>SDA- 41791</b> |                      | <b>MKIPPER</b>        | <b>SSOUSEK</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:      | 2161-94(102)      | Pin No:      | 43294-0209      | Pin No:      | 2161-94(102)    |
|         | Plating:     | 208 – 15 GOLD     | Plating:     | 102 – TIN         | Plating:     | 208 – 15 GOLD   | Plating:     | 102 – 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    |
|         | Item Number  |                   | Item Number  |                   | Item Number  |                 | Item Number  |                 |
| 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>P16</b>                           | <u>ECR/ECN 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>EC NO.:</u> <b>UCP2010-1453</b> |  |                                                                                                       |  |                                          |                                      |                                          |  |
|                                                  | <u>DATE:</u> <b>2/2/2010</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>SSOUSEK</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:      | 2161-94(102)        | Pin No:      | 2161-94(102)      |
|         | Plating:     | 228 – 30 GOLD   | Plating:     | 208 – 15 GOLD     | Plating:     | 102 – TIN           | Plating:     | 102 – 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   |                 |              |                   |              | 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:              | ECR/ECN INFORMATION  | TITLE:                | <b>KK 156 HEADER ASSEMBLY<br/>FRICTION LOCK VERTICAL<br/>SOLID BODY W/O PEGS</b> |               | SHEET No.    |
| <b>P16</b>        | EC NO.: UCP2010-1453 |                       |                                                                                  |               | <b>- 7 -</b> |
|                   | DATE: 2/2/2010       |                       |                                                                                  |               |              |
| DOCUMENT NUMBER:  |                      | CREATED / REVISED BY: | CHECKED BY:                                                                      | APPROVED BY:  |              |
| <b>SDA- 41791</b> |                      | <b>MKIPPER</b>        | <b>SSOUSEK</b>                                                                   | <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:      | 2161-94(102)      | Pin No:      | 2161-94(501)      | Pin No:      | 43294-0212        | Pin No:      | 2161-94(154)    |
|         | Plating:     | 102 – TIN         | Plating:     | 501 – 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   | OVERALL           | 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    | N/A               | 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:<br><br><b>P16</b>                           | <u>ECR/ECN 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>- 8 -</b>     |
|                                                  | <u>EC NO.:</u> <b>UCP2010-1453</b> |                                                    |                                                                                                       |                                          |
|                                                  | <u>DATE:</u> <b>2/2/2010</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>SSOUSEK</b>                                                              | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |

|         |              |              |              |              |              |               |              |  |
|---------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--|
| OPTIONS | Group        | A-41791-1120 | Group        | A-41791-1134 | Group        | A-41791-1150  | Group        |  |
|         | Header No:   | 41790-0006   | Header No:   | 41790-0004   | Header No:   | 41790-0005    | Header No:   |  |
|         | Pin No:      | 2161-94(154) | Pin No:      | 2161-94(154) | Pin No:      | 43294-0210    | Pin No:      |  |
|         | Plating:     | 154 – TIN    | Plating:     | 154 – TIN    | Plating:     | 228 – 30 GOLD | Plating:     |  |
|         | Pin Length L | 18.29 / .720 | Pin Length L | 18.29 / .720 | Pin Length L | 18.29/. 720   | Pin Length L |  |
|         | Mating M     | 11.43 / .450 | Mating M     | 11.43 / .450 | Mating M     | 11.43/. 450   | Mating M     |  |
|         | Gold Loc G   | N/A          | Gold Loc G   | N/A          | Gold Loc G   | 6.85/. 270    | Gold Loc G   |  |
|         | PC Tail P    | 3.56 / .140  | PC Tail P    | 3.56 / .140  | PC Tail P    | 3.56/. 140    | PC Tail P    |  |
|         | Tin Loc T    | OVERALL      | Tin Loc T    | OVERALL      | Tin Loc T    | 4.06/. 160    | Tin Loc T    |  |
|         | Voided Ckts  | 2, 5         | Voided Ckts  | 2, 3         | Voided Ckts  | 2, 4          | Voided Ckts  |  |
|         | Pack Per     | PK-41791-001 | Pack Per     | PK-41791-001 | Pack Per     | PK-41791-001  | Pack Per     |  |
|         | Item Number  |              | Item Number  |              | Item Number  |               | Item Number  |  |
| Ckts    |              |              |              |              |              |               |              |  |
| 2       |              |              |              |              |              |               |              |  |
| 3       |              |              |              |              |              |               |              |  |
| 4       |              |              | 41791-1134   |              |              |               |              |  |
| 5       |              |              |              |              | 41791-1150   |               |              |  |
| 6       | 41791-1120   |              |              |              |              |               |              |  |
| 7       |              |              |              |              |              |               |              |  |
| 8       |              |              |              |              |              |               |              |  |
| 9       |              |              |              |              |              |               |              |  |
| 10      |              |              |              |              |              |               |              |  |
| 11      |              |              |              |              |              |               |              |  |
| 12      |              |              |              |              |              |               |              |  |
| 13      |              |              |              |              |              |               |              |  |
| 14      |              |              |              |              |              |               |              |  |
| 15      |              |              |              |              |              |               |              |  |
| 16      |              |              |              |              |              |               |              |  |
| 17      |              |              |              |              |              |               |              |  |
| 18      |              |              |              |              |              |               |              |  |

|                   |                      |                       |                                                                         |               |              |
|-------------------|----------------------|-----------------------|-------------------------------------------------------------------------|---------------|--------------|
| REV:              | ECR/ECN INFORMATION  | TITLE:                | KK 156 HEADER ASSEMBLY<br>FRICTION LOCK VERTICAL<br>SOLID BODY W/O PEGS |               | SHEET No.    |
| <b>P16</b>        | EC NO.: UCP2010-1453 |                       |                                                                         |               | <b>- 9 -</b> |
|                   | DATE: 2/2/2010       |                       |                                                                         |               |              |
| DOCUMENT NUMBER:  |                      | CREATED / REVISED BY: | CHECKED BY:                                                             | APPROVED BY:  |              |
| <b>SDA- 41791</b> |                      | <b>MKIPPER</b>        | <b>SSOUSEK</b>                                                          | <b>FSMITH</b> |              |