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**Part Number:** [0022286110](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch KK® Header, Breakaway, Right Angle, 11 Circuits, Tin (Sn)  
Plating, Mating Pin Length 9.17mm (.361")

**Documents:**

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-10-07 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |

**Agency Certification**

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

**General**

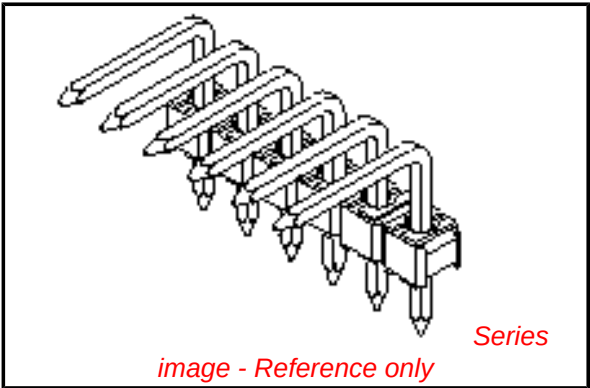
|                |                               |
|----------------|-------------------------------|
| Product Family | PCB Headers                   |
| Series         | <a href="#">42376</a>         |
| Application    | Board-to-Board, Wire-to-Board |
| Product Name   | KK®                           |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | Yes                            |
| Circuits (Loaded)              | 11                             |
| Circuits (maximum)             | 11                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 25                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | No                             |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PC Tail Length (in)            | 0.120 In                       |
| PC Tail Length (mm)            | 3.05 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)  | 0.100 In                       |
| Pitch - Mating Interface (mm)  | 2.54 mm                        |
| Plating min: Mating (µin)      | 100                            |
| Plating min: Mating (µm)       | 2.5                            |
| Plating min: Termination (µin) | 100                            |
| Plating min: Termination (µm)  | 2.5                            |
| Polarized to Mating Part       | No                             |
| Polarized to PCB               | No                             |
| Shrouded                       | No                             |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | No                             |
| Temperature Range - Operating  | 0°C to +75°C                   |
| Termination Interface: Style   | Through Hole                   |

**Electrical**

|                               |    |
|-------------------------------|----|
| Current - Maximum per Contact | 4A |
|-------------------------------|----|



**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Contains SVHC: No**  
**Halogen-Free  
Status**

**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**  
[42376Series](#)

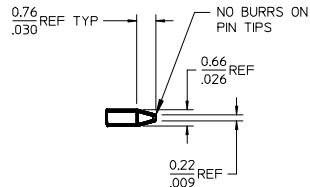
**Mates With**  
[2695](#) , [6471](#) , [7880](#) , [4455](#) , [7720](#) , [70430](#)  
 , [7859](#) , L ink:[90148](#), [90147](#) , [70400a](#) ,  
[70066a](#) , [40556](#)

|                                                |                        |
|------------------------------------------------|------------------------|
| Voltage - Maximum                              | 250V                   |
| <b>Solder Process Data</b>                     |                        |
| 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                    |
| <b>Material Info</b>                           |                        |
| Old Part Number                                | 42376-0011             |
| <b>Reference - Drawing Numbers</b>             |                        |
| Product Specification                          | PS-10-07               |
| Sales Drawing                                  | SD-42376-001           |

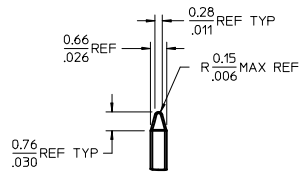
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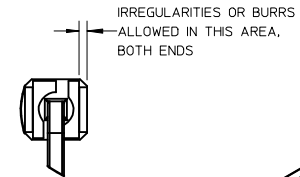
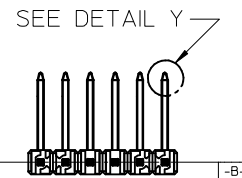
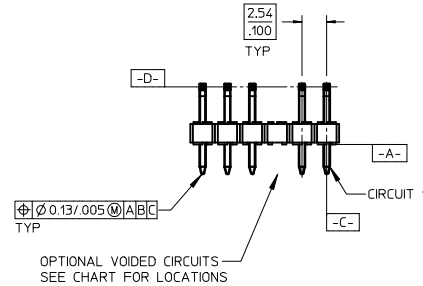
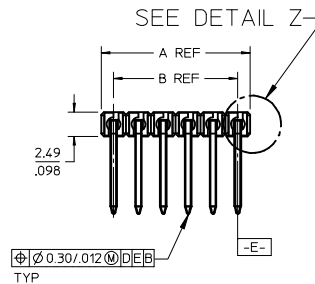
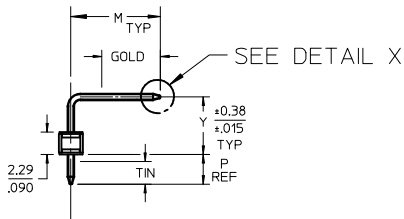
| NO.<br>CKTS | DIM. A        | DIM. B        |
|-------------|---------------|---------------|
| 2           | 5.08<br>200   | 2.54<br>100   |
| 3           | 7.62<br>300   | 5.08<br>200   |
| 4           | 10.16<br>400  | 7.62<br>300   |
| 5           | 12.70<br>500  | 10.16<br>400  |
| 6           | 15.24<br>600  | 12.70<br>500  |
| 7           | 17.78<br>700  | 15.24<br>600  |
| 8           | 20.32<br>800  | 17.78<br>700  |
| 9           | 22.86<br>900  | 20.32<br>800  |
| 10          | 25.40<br>1000 | 22.86<br>900  |
| 11          | 27.94<br>1100 | 25.40<br>1000 |
| 12          | 30.48<br>1200 | 27.94<br>1100 |
| 13          | 33.02<br>1300 | 30.48<br>1200 |
| 14          | 35.56<br>1400 | 33.02<br>1300 |
| 15          | 38.10<br>1500 | 35.56<br>1400 |
| 16          | 40.64<br>1600 | 38.10<br>1500 |
| 17          | 43.18<br>1700 | 40.64<br>1600 |
| 18          | 45.72<br>1800 | 43.18<br>1700 |
| 19          | 48.26<br>1900 | 45.72<br>1800 |
| 20          | 50.80<br>2000 | 48.26<br>1900 |
| 21          | 53.34<br>2100 | 50.80<br>2000 |
| 22          | 55.88<br>2200 | 53.34<br>2100 |
| 23          | 58.42<br>2300 | 55.88<br>2200 |
| 24          | 60.96<br>2400 | 58.42<br>2300 |
| 25          | 63.50<br>2500 | 60.96<br>2400 |
| 26          | 66.04<br>2600 | 63.50<br>2500 |
| 27          | 68.58<br>2700 | 66.04<br>2600 |
| 28          | 71.12<br>2800 | 68.58<br>2700 |
| 29          | 73.66<br>2900 | 71.12<br>2800 |
| 30          | 76.20<br>3000 | 73.66<br>2900 |
| 31          | 78.74<br>3100 | 76.20<br>3000 |
| 32          | 81.28<br>3200 | 78.74<br>3100 |
| 33          | 83.82<br>3300 | 81.28<br>3200 |
| 34          | 86.36<br>3400 | 83.82<br>3300 |
| 35          | 88.90<br>3500 | 86.36<br>3400 |
| 36          | 91.44<br>3600 | 88.90<br>3500 |



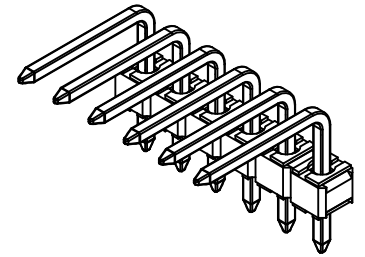
DETAIL X  
SCALE 5:1  
SEE NOTE 10



DETAIL Y  
SCALE 5:1  
SEE NOTE 10

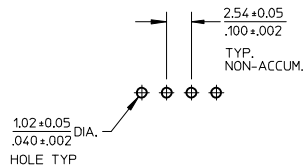


DETAIL Z  
SCALE 5:1



- NOTES:
1. MATERIAL: GLASS FILLED NYLON  
UL94V-0, COLOR: BLACK
  2. FINISH:  
(154)\* OVERALL TIN: 0.00254/.000100 MIN. OVER  
NICKEL: 0.00127/.000050 MIN.  
(208) SELECT GOLD: 0.00038/.000015 MIN.  
\* SELECT TIN: 0.00254/.000100 MIN.  
WITH OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.  
(228) SELECT GOLD: 0.00076/.000030 MIN.  
\* SELECT TIN: 0.00254/.000100 MIN.  
WITH OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.  
\* 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 PLATINGS.
  3. PRODUCT SPECIFICATION: PS 10-07.
  4. PACKAGING INFORMATION: SEE TABLES
  5. SOLDERABILITY PER SMES-152.
  6. PIN PUSH OUT FORCE: 3 LBS. MIN
  7. SEE SMES-42003 FOR ADDITIONAL INFORMATION  
ON KINK PIN DIRECTION AND PLACEMENT.
  8. HEADERS ARE NOT STACKABLE ON 2.54/.100 CENTERS.
  9. PARTS CONFORM TO CLASS B REQUIREMENTS OF COSMETIC  
SPECIFICATION PS-45499-002.
  10. PIN TIP DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.  
DIMENSIONS APPLY PRIOR TO PLATING OR ASSEMBLY.

| 2-* | K13 |
|-----|-----|
| 1   | K13 |
| SH  | REV |



PCB LAYOUT: COMPONENT SIDE  
PCB THICKNESS: 1.57/.062

|                                                                                                                  |                                   |                    |                                                                                                                               |                    |  |                                                         |              |                        |  |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|--|---------------------------------------------------------|--------------|------------------------|--|
| ADD PART NUMBERS<br>EC NO: UCP2009-1603<br>2009/04/17<br>DRWN:MKIPPER<br>CHKD:JBELL<br>2009/04/23<br>APPR:FSMITH | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION        | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                         | DIMENSION STYLE    |  | SCALE                                                   | DESIGN UNITS | THIRD ANGLE PROJECTION |  |
|                                                                                                                  |                                   |                    |                                                                                                                               | MM/IN              |  | 1:1                                                     | INCH         |                        |  |
|                                                                                                                  |                                   |                    |                                                                                                                               | DRAWN BY DATE      |  | KK 100 HEADER ASSEMBLY<br>FLAT RIGHT ANGLE<br>BREAKAWAY |              |                        |  |
|                                                                                                                  |                                   |                    |                                                                                                                               | JSCHAFAER 11/24/03 |  |                                                         |              |                        |  |
|                                                                                                                  |                                   |                    |                                                                                                                               | CHECKED BY DATE    |  |                                                         |              |                        |  |
| SAMIEC 11/26/03                                                                                                  |                                   | MOLEX INCORPORATED |                                                                                                                               |                    |  |                                                         |              |                        |  |
| APPROVED BY DATE                                                                                                 |                                   |                    |                                                                                                                               |                    |  |                                                         |              |                        |  |
| MARGULIS 12/7/03                                                                                                 |                                   | SD-42376-001       |                                                                                                                               |                    |  |                                                         |              |                        |  |
| MATERIAL NO.                                                                                                     |                                   |                    |                                                                                                                               |                    |  | DOCUMENT NO.                                            |              | SHEET NO.              |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                       |                                   | SEE CHART          |                                                                                                                               | 1 OF 10            |  |                                                         |              |                        |  |
| K13                                                                                                              |                                   | REV                | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |  |                                                         |              |                        |  |

|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
|-----------------------------------------------------------------|-----------------|-----------------------------|------|------------------------------------------------------------------|------------|---------------------|-----------------|--------------------|------|-----------------|------------|
|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
| A-42376-0002 / 0036                                             |                 |                             |      |                                                                  |            | A-42376-0037 / 0071 |                 |                    |      |                 |            |
| HEADER NUMBER:                                                  |                 | 42312-0002/0036             |      |                                                                  |            | HEADER NUMBER:      |                 | 42312-0002/0036    |      |                 |            |
| PIN NUMBER:                                                     |                 | 42663-BKA154                |      |                                                                  |            | PIN NUMBER:         |                 | 42663-BKB208       |      |                 |            |
| PIN LENGTH: L                                                   |                 | .600/15.24                  |      |                                                                  |            | PIN LENGTH: L       |                 | .600/15.24         |      |                 |            |
| MATING LENGTH: M                                                |                 | .361/9.17                   |      |                                                                  |            | MATING LENGTH: M    |                 | .361/9.17          |      |                 |            |
| GOLD POINT: G                                                   |                 | N/A                         |      |                                                                  |            | GOLD POINT: G       |                 | .180/4.57          |      |                 |            |
| PIN HEIGHT: Y                                                   |                 | .142/3.61                   |      |                                                                  |            | PIN HEIGHT: Y       |                 | .142/3.61          |      |                 |            |
| PC TAIL LENGTH: P                                               |                 | .120/3.05                   |      |                                                                  |            | PC TAIL LENGTH: P   |                 | .120/3.05          |      |                 |            |
| TIN: T                                                          |                 | OVERALL                     |      |                                                                  |            | TIN: T              |                 | .135/3.43          |      |                 |            |
| CKTS:                                                           |                 | 2-36                        |      |                                                                  |            | CKTS:               |                 | 2-36               |      |                 |            |
| KINKS:                                                          |                 | NONE                        |      |                                                                  |            | KINKS:              |                 | NONE               |      |                 |            |
| REMOVED BACKWALLS:                                              |                 | NONE                        |      |                                                                  |            | REMOVED BACKWALLS:  |                 | NONE               |      |                 |            |
| VOIDED CKTS:                                                    |                 | NONE                        |      |                                                                  |            | VOIDED CKTS:        |                 | NONE               |      |                 |            |
| PACKAGING:                                                      |                 | BULK PK-40873-0041          |      |                                                                  |            | PACKAGING:          |                 | BULK PK-40873-0041 |      |                 |            |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER                  | CKTS | MATERIAL NUMBER                                                  | ENG NUMBER | CKTS                | MATERIAL NUMBER | ENG NUMBER         | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02                                                              | 22-28-6020      | 42376-0002                  | 20   | 22-28-6200                                                       | 42376-0020 | 02                  | 22-28-6022      | 42376-0037         | 20   | 22-28-6202      | 42376-0055 |
| 03                                                              | 22-28-6030      | 42376-0003                  | 21   | 22-28-6210                                                       | 42376-0021 | 03                  | 22-28-6032      | 42376-0038         | 21   | 22-28-6212      | 42376-0056 |
| 04                                                              | 22-28-6040      | 42376-0004                  | 22   | 22-28-6220                                                       | 42376-0022 | 04                  | 22-28-6042      | 42376-0039         | 22   | 22-28-6222      | 42376-0057 |
| 05                                                              | 22-28-6050      | 42376-0005                  | 23   | 22-28-6230                                                       | 42376-0023 | 05                  | 22-28-6052      | 42376-0040         | 23   | 22-28-6232      | 42376-0058 |
| 06                                                              | 22-28-6060      | 42376-0006                  | 24   | 22-28-6240                                                       | 42376-0024 | 06                  | 22-28-6062      | 42376-0041         | 24   | 22-28-6242      | 42376-0059 |
| 07                                                              | 22-28-6070      | 42376-0007                  | 25   | 22-28-6250                                                       | 42376-0025 | 07                  | 22-28-6072      | 42376-0042         | 25   | 22-28-6252      | 42376-0060 |
| 08                                                              | 22-28-6080      | 42376-0008                  | 26   | 22-28-6260                                                       | 42376-0026 | 08                  | 22-28-6082      | 42376-0043         | 26   | 22-28-6262      | 42376-0061 |
| 09                                                              | 22-28-6090      | 42376-0009                  | 27   | 22-28-6270                                                       | 42376-0027 | 09                  | 22-28-6092      | 42376-0044         | 27   | 22-28-6272      | 42376-0062 |
| 10                                                              | 22-28-6100      | 42376-0010                  | 28   | 22-28-6280                                                       | 42376-0028 | 10                  | 22-28-6102      | 42376-0045         | 28   | 22-28-6282      | 42376-0063 |
| 11                                                              | 22-28-6110      | 42376-0011                  | 29   | 22-28-6290                                                       | 42376-0029 | 11                  | 22-28-6112      | 42376-0046         | 29   | 22-28-6292      | 42376-0064 |
| 12                                                              | 22-28-6120      | 42376-0012                  | 30   | 22-28-6300                                                       | 42376-0030 | 12                  | 22-28-6122      | 42376-0047         | 30   | 22-28-6302      | 42376-0065 |
| 13                                                              | 22-28-6130      | 42376-0013                  | 31   | 22-28-6310                                                       | 42376-0031 | 13                  | 22-28-6132      | 42376-0048         | 31   | 22-28-6312      | 42376-0066 |
| 14                                                              | 22-28-6140      | 42376-0014                  | 32   | 22-28-6320                                                       | 42376-0032 | 14                  | 22-28-6142      | 42376-0049         | 32   | 22-28-6322      | 42376-0067 |
| 15                                                              | 22-28-6150      | 42376-0015                  | 33   | 22-28-6330                                                       | 42376-0033 | 15                  | 22-28-6152      | 42376-0050         | 33   | 22-28-6332      | 42376-0068 |
| 16                                                              | 22-28-6160      | 42376-0016                  | 34   | 22-28-6340                                                       | 42376-0034 | 16                  | 22-28-6162      | 42376-0051         | 34   | 22-28-6342      | 42376-0069 |
| 17                                                              | 22-28-6170      | 42376-0017                  | 35   | 22-28-6350                                                       | 42376-0035 | 17                  | 22-28-6172      | 42376-0052         | 35   | 22-28-6352      | 42376-0070 |
| 18                                                              | 22-28-6180      | 42376-0018                  | 36   | 22-28-6360                                                       | 42376-0036 | 18                  | 22-28-6182      | 42376-0053         | 36   | 22-28-6362      | 42376-0071 |
| 19                                                              | 22-28-6190      | 42376-0019                  |      |                                                                  |            | 19                  | 22-28-6192      | 42376-0054         |      |                 |            |
|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
| REV:                                                            |                 | ECR / ECN INFORMATION:      |      | TITLE:                                                           |            |                     |                 |                    |      | SHEET No.       |            |
| <b>K13</b>                                                      |                 | EC No.: <b>UCP2009-1603</b> |      | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |            |                     |                 |                    |      | <b>- 2 -</b>    |            |
|                                                                 |                 | DATE: <b>4/23/2009</b>      |      |                                                                  |            |                     |                 |                    |      |                 |            |
| DOCUMENT NUMBER:                                                |                 |                             |      | CREATED / REVISED BY:                                            |            | CHECKED BY:         |                 | APPROVED BY:       |      |                 |            |
| <b>SD- 42376-001</b>                                            |                 |                             |      | <b>MKIPPER</b>                                                   |            | <b>JBELL</b>        |                 | <b>FSMITH</b>      |      |                 |            |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |

|                                                  |                 |                             |      |                                                                                    |            |                     |                 |                    |      |                 |            |
|--------------------------------------------------|-----------------|-----------------------------|------|------------------------------------------------------------------------------------|------------|---------------------|-----------------|--------------------|------|-----------------|------------|
| A-42376-0072 / 0106                              |                 |                             |      |                                                                                    |            | A-42376-0107 / 0141 |                 |                    |      |                 |            |
| HEADER NUMBER:                                   |                 | 42312-0002/0036             |      |                                                                                    |            | HEADER NUMBER:      |                 | 42312-0002/0036    |      |                 |            |
| PIN NUMBER:                                      |                 | 42663-BKB228                |      |                                                                                    |            | PIN NUMBER:         |                 | 42663-CXA154       |      |                 |            |
| PIN LENGTH: L                                    |                 | .600/15.24                  |      |                                                                                    |            | PIN LENGTH: L       |                 | .750/19.05         |      |                 |            |
| MATING LENGTH: M                                 |                 | .361/9.17                   |      |                                                                                    |            | MATING LENGTH: M    |                 | .405/10.29         |      |                 |            |
| GOLD POINT: G                                    |                 | .180/4.57                   |      |                                                                                    |            | GOLD POINT: G       |                 | N/A                |      |                 |            |
| PIN HEIGHT: Y                                    |                 | .142/3.61                   |      |                                                                                    |            | PIN HEIGHT: Y       |                 | .248/6.30          |      |                 |            |
| PC TAIL LENGTH: P                                |                 | .120/3.05                   |      |                                                                                    |            | PC TAIL LENGTH: P   |                 | .120/3.05          |      |                 |            |
| TIN: T                                           |                 | .135/3.43                   |      |                                                                                    |            | TIN: T              |                 | OVERALL            |      |                 |            |
| CKTS:                                            |                 | 2-36                        |      |                                                                                    |            | CKTS:               |                 | 2-36               |      |                 |            |
| KINKS:                                           |                 | NONE                        |      |                                                                                    |            | KINKS:              |                 | NONE               |      |                 |            |
| REMOVED BACKWALLS:                               |                 | NONE                        |      |                                                                                    |            | REMOVED BACKWALLS:  |                 | NONE               |      |                 |            |
| VOIDED CKTS:                                     |                 | NONE                        |      |                                                                                    |            | VOIDED CKTS:        |                 | NONE               |      |                 |            |
| PACKAGING:                                       |                 | BULK PK-40873-0041          |      |                                                                                    |            | PACKAGING:          |                 | BULK PK-40873-0043 |      |                 |            |
| CKTS                                             | MATERIAL NUMBER | ENG NUMBER                  | CKTS | MATERIAL NUMBER                                                                    | ENG NUMBER | CKTS                | MATERIAL NUMBER | ENG NUMBER         | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02                                               | 22-28-6024      | 42376-0072                  | 20   | 22-28-6204                                                                         | 42376-0090 | 02                  | 22-28-6021      | 42376-0107         | 20   | 22-28-6201      | 42376-0125 |
| 03                                               | 22-28-6034      | 42376-0073                  | 21   | 22-28-6214                                                                         | 42376-0091 | 03                  | 22-28-6031      | 42376-0108         | 21   | 22-28-6211      | 42376-0126 |
| 04                                               | 22-28-6044      | 42376-0074                  | 22   | 22-28-6224                                                                         | 42376-0092 | 04                  | 22-28-6041      | 42376-0109         | 22   | 22-28-6221      | 42376-0127 |
| 05                                               | 22-28-6054      | 42376-0075                  | 23   | 22-28-6234                                                                         | 42376-0093 | 05                  | 22-28-6051      | 42376-0110         | 23   | 22-28-6231      | 42376-0128 |
| 06                                               | 22-28-6064      | 42376-0076                  | 24   | 22-28-6244                                                                         | 42376-0094 | 06                  | 22-28-6061      | 42376-0111         | 24   | 22-28-6241      | 42376-0129 |
| 07                                               | 22-28-6074      | 42376-0077                  | 25   | 22-28-6254                                                                         | 42376-0095 | 07                  | 22-28-6071      | 42376-0112         | 25   | 22-28-6251      | 42376-0130 |
| 08                                               | 22-28-6084      | 42376-0078                  | 26   | 22-28-6264                                                                         | 42376-0096 | 08                  | 22-28-6081      | 42376-0113         | 26   | 22-28-6261      | 42376-0131 |
| 09                                               | 22-28-6094      | 42376-0079                  | 27   | 22-28-6274                                                                         | 42376-0097 | 09                  | 22-28-6091      | 42376-0114         | 27   | 22-28-6271      | 42376-0132 |
| 10                                               | 22-28-6104      | 42376-0080                  | 28   | 22-28-6284                                                                         | 42376-0098 | 10                  | 22-28-6101      | 42376-0015         | 28   | 22-28-6281      | 42376-0133 |
| 11                                               | 22-28-6114      | 42376-0081                  | 29   | 22-28-6294                                                                         | 42376-0099 | 11                  | 22-28-6111      | 42376-0116         | 29   | 22-28-6291      | 42376-0134 |
| 12                                               | 22-28-6124      | 42376-0082                  | 30   | 22-28-6304                                                                         | 42376-0100 | 12                  | 22-28-6121      | 42376-0117         | 30   | 22-28-6301      | 42376-0135 |
| 13                                               | 22-28-6134      | 42376-0083                  | 31   | 22-28-6314                                                                         | 42376-0101 | 13                  | 22-28-6131      | 42376-0118         | 31   | 22-28-6311      | 42376-0136 |
| 14                                               | 22-28-6144      | 42376-0084                  | 32   | 22-28-6324                                                                         | 42376-0102 | 14                  | 22-28-6141      | 42376-0119         | 32   | 22-28-6321      | 42376-0137 |
| 15                                               | 22-28-6154      | 42376-0085                  | 33   | 22-28-6334                                                                         | 42376-0103 | 15                  | 22-28-6151      | 42376-0120         | 33   | 22-28-6331      | 42376-0138 |
| 16                                               | 22-28-6164      | 42376-0086                  | 34   | 22-28-6344                                                                         | 42376-0104 | 16                  | 22-28-6161      | 42376-0121         | 34   | 22-28-6341      | 42376-0139 |
| 17                                               | 22-28-6174      | 42376-0087                  | 35   | 22-28-6354                                                                         | 42376-0105 | 17                  | 22-28-6171      | 42376-0122         | 35   | 22-28-6351      | 42376-0140 |
| 18                                               | 22-28-6184      | 42376-0088                  | 36   | 22-28-6364                                                                         | 42376-0106 | 18                  | 22-28-6181      | 42376-0123         | 36   | 22-28-6361      | 42376-0141 |
| 19                                               | 22-28-6194      | 42376-0089                  |      |                                                                                    |            | 19                  | 22-28-6191      | 42376-0124         |      |                 |            |
| REV:                                             |                 | ECR / ECN INFORMATION:      |      | TITLE:                                                                             |            |                     |                 | SHEET No.          |      |                 |            |
| <b>K13</b>                                       |                 | EC No.: <b>UCP2009-1603</b> |      | <b>KK 100 HEADER ASSEMBLY<br/>         FLAT RIGHT ANGLE<br/>         BREAKAWAY</b> |            |                     |                 | <b>- 3 -</b>       |      |                 |            |
|                                                  |                 | DATE: <b>4/23/2009</b>      |      |                                                                                    |            |                     |                 |                    |      |                 |            |
| DOCUMENT NUMBER:                                 |                 |                             |      | CREATED / REVISED BY:                                                              |            | CHECKED BY:         |                 | APPROVED BY:       |      |                 |            |
| <b>SD- 42376-001</b>                             |                 |                             |      | <b>MKIPPER</b>                                                                     |            | <b>JBELL</b>        |                 | <b>FSMITH</b>      |      |                 |            |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |                             |      |                                                                                    |            |                     |                 |                    |      |                 |            |

|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
|-----------------------------------------------------------------|-----------------|-----------------------------|------|------------------------------------------------------------------|------------|---------------------|-----------------|--------------------|------|-----------------|------------|
|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
| A-42376-0142 / 0176                                             |                 |                             |      |                                                                  |            | A-42376-0177 / 0211 |                 |                    |      |                 |            |
| HEADER NUMBER:                                                  |                 | 42312-0002/0036             |      |                                                                  |            | HEADER NUMBER:      |                 | 42312-0002/0036    |      |                 |            |
| PIN NUMBER:                                                     |                 | 42663-CXB208                |      |                                                                  |            | PIN NUMBER:         |                 | 42663-CXB228       |      |                 |            |
| PIN LENGTH: L                                                   |                 | .750/19.05                  |      |                                                                  |            | PIN LENGTH: L       |                 | .750/19.05         |      |                 |            |
| MATING LENGTH: M                                                |                 | .405/10.29                  |      |                                                                  |            | MATING LENGTH: M    |                 | .405/10.29         |      |                 |            |
| GOLD POINT: G                                                   |                 | .180/4.57                   |      |                                                                  |            | GOLD POINT: G       |                 | .180/4.57          |      |                 |            |
| PIN HEIGHT: Y                                                   |                 | .248/6.30                   |      |                                                                  |            | PIN HEIGHT: Y       |                 | .248/6.30          |      |                 |            |
| PC TAIL LENGTH: P                                               |                 | .120/3.05                   |      |                                                                  |            | PC TAIL LENGTH: P   |                 | .120/3.05          |      |                 |            |
| TIN: T                                                          |                 | .135/3.43                   |      |                                                                  |            | TIN: T              |                 | .135/3.43          |      |                 |            |
| CKTS:                                                           |                 | 2-36                        |      |                                                                  |            | CKTS:               |                 | 2-36               |      |                 |            |
| KINKS:                                                          |                 | NONE                        |      |                                                                  |            | KINKS:              |                 | NONE               |      |                 |            |
| REMOVED BACKWALLS:                                              |                 | NONE                        |      |                                                                  |            | REMOVED BACKWALLS:  |                 | NONE               |      |                 |            |
| VOIDED CKTS:                                                    |                 | NONE                        |      |                                                                  |            | VOIDED CKTS:        |                 | NONE               |      |                 |            |
| PACKAGING:                                                      |                 | BULK PK-40873-0043          |      |                                                                  |            | PACKAGING:          |                 | BULK PK-40873-0043 |      |                 |            |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER                  | CKTS | MATERIAL NUMBER                                                  | ENG NUMBER | CKTS                | MATERIAL NUMBER | ENG NUMBER         | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02                                                              | 22-28-6023      | 42376-0142                  | 20   | 22-28-6203                                                       | 42376-0160 | 02                  | 22-28-6025      | 42376-0177         | 20   | 22-28-6205      | 42376-0195 |
| 03                                                              | 22-28-6033      | 42376-0143                  | 21   | 22-28-6213                                                       | 42376-0161 | 03                  | 22-28-6035      | 42376-0178         | 21   | 22-28-6215      | 42376-0196 |
| 04                                                              | 22-28-6043      | 42376-0144                  | 22   | 22-28-6223                                                       | 42376-0162 | 04                  | 22-28-6045      | 42376-0179         | 22   | 22-28-6225      | 42376-0197 |
| 05                                                              | 22-28-6053      | 42376-0145                  | 23   | 22-28-6233                                                       | 42376-0163 | 05                  | 22-28-6055      | 42376-0180         | 23   | 22-28-6235      | 42376-0198 |
| 06                                                              | 22-28-6063      | 42376-0146                  | 24   | 22-28-6243                                                       | 42376-0164 | 06                  | 22-28-6065      | 42376-0181         | 24   | 22-28-6245      | 42376-0199 |
| 07                                                              | 22-28-6073      | 42376-0147                  | 25   | 22-28-6253                                                       | 42376-0165 | 07                  | 22-28-6075      | 42376-0182         | 25   | 22-28-6255      | 42376-0200 |
| 08                                                              | 22-28-6083      | 42376-0148                  | 26   | 22-28-6263                                                       | 42376-0166 | 08                  | 22-28-6085      | 42376-0183         | 26   | 22-28-6265      | 42376-0201 |
| 09                                                              | 22-28-6093      | 42376-0149                  | 27   | 22-28-6273                                                       | 42376-0167 | 09                  | 22-28-6095      | 42376-0184         | 27   | 22-28-6275      | 42376-0202 |
| 10                                                              | 22-28-6103      | 42376-0150                  | 28   | 22-28-6283                                                       | 42376-0168 | 10                  | 22-28-6105      | 42376-0185         | 28   | 22-28-6285      | 42376-0203 |
| 11                                                              | 22-28-6113      | 42376-0151                  | 29   | 22-28-6293                                                       | 42376-0169 | 11                  | 22-28-6115      | 42376-0186         | 29   | 22-28-6295      | 42376-0204 |
| 12                                                              | 22-28-6123      | 42376-0152                  | 30   | 22-28-6303                                                       | 42376-0170 | 12                  | 22-28-6125      | 42376-0187         | 30   | 22-28-6305      | 42376-0205 |
| 13                                                              | 22-28-6133      | 42376-0153                  | 31   | 22-28-6313                                                       | 42376-0171 | 13                  | 22-28-6135      | 42376-0188         | 31   | 22-28-6315      | 42376-0206 |
| 14                                                              | 22-28-6143      | 42376-0154                  | 32   | 22-28-6323                                                       | 42376-0172 | 14                  | 22-28-6145      | 42376-0189         | 32   | 22-28-6325      | 42376-0207 |
| 15                                                              | 22-28-6153      | 42376-0155                  | 33   | 22-28-6333                                                       | 42376-0173 | 15                  | 22-28-6155      | 42376-0190         | 33   | 22-28-6335      | 42376-0208 |
| 16                                                              | 22-28-6163      | 42376-0156                  | 34   | 22-28-6343                                                       | 42376-0174 | 16                  | 22-28-6165      | 42376-0191         | 34   | 22-28-6345      | 42376-0209 |
| 17                                                              | 22-28-6173      | 42376-0157                  | 35   | 22-28-6353                                                       | 42376-0175 | 17                  | 22-28-6175      | 42376-0192         | 35   | 22-28-6355      | 42376-0210 |
| 18                                                              | 22-28-6183      | 42376-0158                  | 36   | 22-28-6363                                                       | 42376-0176 | 18                  | 22-28-6185      | 42376-0193         | 36   | 22-28-6365      | 42376-0211 |
| 19                                                              | 22-28-6193      | 42376-0159                  |      |                                                                  |            | 19                  | 22-28-6195      | 42376-0194         |      |                 |            |
|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
| REV:                                                            |                 | ECR / ECN INFORMATION:      |      | TITLE:                                                           |            |                     |                 | SHEET No.          |      |                 |            |
| <b>K13</b>                                                      |                 | EC No.: <b>UCP2009-1603</b> |      | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |            |                     |                 | <b>- 4 -</b>       |      |                 |            |
|                                                                 |                 | DATE: <b>4/23/2009</b>      |      |                                                                  |            |                     |                 |                    |      |                 |            |
| DOCUMENT NUMBER:                                                |                 |                             |      | CREATED / REVISED BY:                                            |            | CHECKED BY:         |                 | APPROVED BY:       |      |                 |            |
| <b>SD- 42376-001</b>                                            |                 |                             |      | <b>MKIPPER</b>                                                   |            | <b>JBELL</b>        |                 | <b>FSMITH</b>      |      |                 |            |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |

|                                                                          |                 |                        |                    |                                                                                                                                                                     |            |                     |                 |              |                    |                 |            |
|--------------------------------------------------------------------------|-----------------|------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|-----------------|--------------|--------------------|-----------------|------------|
|                                                                          |                 |                        |                    |                                                                                                                                                                     |            |                     |                 |              |                    |                 |            |
|                                                                          |                 |                        |                    |                                                                                                                                                                     |            |                     |                 |              |                    |                 |            |
| A-42376-0212 / 0246                                                      |                 |                        |                    |                                                                                                                                                                     |            | A-42376-0247 / 0281 |                 |              |                    |                 |            |
| HEADER NUMBER:                                                           |                 |                        | 42312-0002/0036    |                                                                                                                                                                     |            | HEADER NUMBER:      |                 |              | 42312-0002/0036    |                 |            |
| PIN NUMBER:                                                              |                 |                        | 42663-BNA154       |                                                                                                                                                                     |            | PIN NUMBER:         |                 |              | 42663-BNB208       |                 |            |
| PIN LENGTH: L                                                            |                 |                        | .615/15.62         |                                                                                                                                                                     |            | PIN LENGTH: L       |                 |              | .615/15.62         |                 |            |
| MATING LENGTH: M                                                         |                 |                        | .361/9.17          |                                                                                                                                                                     |            | MATING LENGTH: M    |                 |              | .361/9.17          |                 |            |
| GOLD POINT: G                                                            |                 |                        | N/A                |                                                                                                                                                                     |            | GOLD POINT: G       |                 |              | .180/4.57          |                 |            |
| PIN HEIGHT: Y                                                            |                 |                        | .142/3.61          |                                                                                                                                                                     |            | PIN HEIGHT: Y       |                 |              | .142/3.61          |                 |            |
| PC TAIL LENGTH: P                                                        |                 |                        | .135/3.43          |                                                                                                                                                                     |            | PC TAIL LENGTH: P   |                 |              | .135/3.43          |                 |            |
| TIN: T                                                                   |                 |                        | OVERALL            |                                                                                                                                                                     |            | TIN: T              |                 |              | .135/3.43          |                 |            |
| CKTS:                                                                    |                 |                        | 2-36               |                                                                                                                                                                     |            | CKTS:               |                 |              | 2-36               |                 |            |
| KINKS:                                                                   |                 |                        | PER SMES-42003     |                                                                                                                                                                     |            | KINKS:              |                 |              | PER SMES-42003     |                 |            |
| REMOVED BACKWALLS:                                                       |                 |                        | NONE               |                                                                                                                                                                     |            | REMOVED BACKWALLS:  |                 |              | NONE               |                 |            |
| VOIDED CKTS:                                                             |                 |                        | NONE               |                                                                                                                                                                     |            | VOIDED CKTS:        |                 |              | NONE               |                 |            |
| PACKAGING:                                                               |                 |                        | BULK PK-40873-0041 |                                                                                                                                                                     |            | PACKAGING:          |                 |              | BULK PK-40873-0041 |                 |            |
| CKTS                                                                     | MATERIAL NUMBER | ENG NUMBER             | CKTS               | MATERIAL NUMBER                                                                                                                                                     | ENG NUMBER | CKTS                | MATERIAL NUMBER | ENG NUMBER   | CKTS               | MATERIAL NUMBER | ENG NUMBER |
| 02                                                                       | 22-28-7020      | 42376-0212             | 20                 | 22-28-7200                                                                                                                                                          | 42376-0230 | 02                  | 22-28-7022      | 42376-0247   | 20                 | 22-28-7202      | 42376-0265 |
| 03                                                                       | 22-28-7030      | 42376-0213             | 21                 | 22-28-7210                                                                                                                                                          | 42376-0231 | 03                  | 22-28-7032      | 42376-0248   | 21                 | 22-28-7212      | 42376-0266 |
| 04                                                                       | 22-28-7040      | 42376-0214             | 22                 | 22-28-7220                                                                                                                                                          | 42376-0232 | 04                  | 22-28-7042      | 42376-0249   | 22                 | 22-28-7222      | 42376-0267 |
| 05                                                                       | 22-28-7050      | 42376-0215             | 23                 | 22-28-7230                                                                                                                                                          | 42376-0233 | 05                  | 22-28-7052      | 42376-0250   | 23                 | 22-28-7232      | 42376-0268 |
| 06                                                                       | 22-28-7060      | 42376-0216             | 24                 | 22-28-7240                                                                                                                                                          | 42376-0234 | 06                  | 22-28-7062      | 42376-0251   | 24                 | 22-28-7242      | 42376-0269 |
| 07                                                                       | 22-28-7070      | 42376-0217             | 25                 | 22-28-7250                                                                                                                                                          | 42376-0235 | 07                  | 22-28-7072      | 42376-0252   | 25                 | 22-28-7252      | 42376-0270 |
| 08                                                                       | 22-28-7080      | 42376-0218             | 26                 | 22-28-7260                                                                                                                                                          | 42376-0236 | 08                  | 22-28-7082      | 42376-0253   | 26                 | 22-28-7262      | 42376-0271 |
| 09                                                                       | 22-28-7090      | 42376-0219             | 27                 | 22-28-7270                                                                                                                                                          | 42376-0237 | 09                  | 22-28-7092      | 42376-0254   | 27                 | 22-28-7272      | 42376-0272 |
| 10                                                                       | 22-28-7100      | 42376-0220             | 28                 | 22-28-7280                                                                                                                                                          | 42376-0238 | 10                  | 22-28-7102      | 42376-0255   | 28                 | 22-28-7282      | 42376-0273 |
| 11                                                                       | 22-28-7110      | 42376-0221             | 29                 | 22-28-7290                                                                                                                                                          | 42376-0239 | 11                  | 22-28-7112      | 42376-0256   | 29                 | 22-28-7292      | 42376-0274 |
| 12                                                                       | 22-28-7120      | 42376-0222             | 30                 | 22-28-7300                                                                                                                                                          | 42376-0240 | 12                  | 22-28-7122      | 42376-0257   | 30                 | 22-28-7302      | 42376-0275 |
| 13                                                                       | 22-28-7130      | 42376-0223             | 31                 | 22-28-7310                                                                                                                                                          | 42376-0241 | 13                  | 22-28-7132      | 42376-0258   | 31                 | 22-28-7312      | 42376-0276 |
| 14                                                                       | 22-28-7140      | 42376-0224             | 32                 | 22-28-7320                                                                                                                                                          | 42376-0242 | 14                  | 22-28-7142      | 42376-0259   | 32                 | 22-28-7322      | 42376-0277 |
| 15                                                                       | 22-28-7150      | 42376-0225             | 33                 | 22-28-7330                                                                                                                                                          | 42376-0243 | 15                  | 22-28-7152      | 42376-0260   | 33                 | 22-28-7332      | 42376-0278 |
| 16                                                                       | 22-28-7160      | 42376-0226             | 34                 | 22-28-7340                                                                                                                                                          | 42376-0244 | 16                  | 22-28-7162      | 42376-0261   | 34                 | 22-28-7342      | 42376-0279 |
| 17                                                                       | 22-28-7170      | 42376-0227             | 35                 | 22-28-7350                                                                                                                                                          | 42376-0245 | 17                  | 22-28-7172      | 42376-0262   | 35                 | 22-28-7352      | 42376-0280 |
| 18                                                                       | 22-28-7180      | 42376-0228             | 36                 | 22-28-7360                                                                                                                                                          | 42376-0246 | 18                  | 22-28-7182      | 42376-0263   | 36                 | 22-28-7362      | 42376-0281 |
| 19                                                                       | 22-28-7190      | 42376-0229             |                    |                                                                                                                                                                     |            | 19                  | 22-28-7192      | 42376-0264   |                    |                 |            |
|                                                                          |                 |                        |                    |                                                                                                                                                                     |            |                     |                 |              |                    |                 |            |
| REV:                                                                     |                 | ECR / ECN INFORMATION: |                    | <div> <div> <div>TITLE:</div> <div>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</div> </div> <div> <div>SHEET No.</div> <div>- 5 -</div> </div> </div> |            |                     |                 |              |                    |                 |            |
| K13                                                                      |                 | EC No.: UCP2009-1603   |                    |                                                                                                                                                                     |            |                     |                 |              |                    |                 |            |
|                                                                          |                 | DATE: 4/23/2009        |                    |                                                                                                                                                                     |            |                     |                 |              |                    |                 |            |
| DOCUMENT NUMBER:                                                         |                 |                        |                    | CREATED / REVISED BY:                                                                                                                                               |            | CHECKED BY:         |                 | APPROVED BY: |                    |                 |            |
| SD- 42376-001                                                            |                 |                        |                    | MKIPPER                                                                                                                                                             |            | JBELL               |                 | FSMITH       |                    |                 |            |
| <div> <div>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</div> </div> |                 |                        |                    |                                                                                                                                                                     |            |                     |                 |              |                    |                 |            |

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|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
| A-42376-0282/ 0316                                              |                 |                             |      |                                                                  |            | A-42376-0317 / 0351 |                 |                    |      |                 |            |
| HEADER NUMBER:                                                  |                 | 42312-0002/0036             |      |                                                                  |            | HEADER NUMBER:      |                 | 42312-0002/0036    |      |                 |            |
| PIN NUMBER:                                                     |                 | 42663-BNB228                |      |                                                                  |            | PIN NUMBER:         |                 | 42663-DAA154       |      |                 |            |
| PIN LENGTH: L                                                   |                 | .615/15.62                  |      |                                                                  |            | PIN LENGTH: L       |                 | .765/19.43         |      |                 |            |
| MATING LENGTH: M                                                |                 | .361/9.17                   |      |                                                                  |            | MATING LENGTH: M    |                 | .405/10.29         |      |                 |            |
| GOLD POINT: G                                                   |                 | .180/4.57                   |      |                                                                  |            | GOLD POINT: G       |                 | N/A                |      |                 |            |
| PIN HEIGHT: Y                                                   |                 | .142/3.61                   |      |                                                                  |            | PIN HEIGHT: Y       |                 | .248/6.30          |      |                 |            |
| PC TAIL LENGTH: P                                               |                 | .135/3.43                   |      |                                                                  |            | PC TAIL LENGTH: P   |                 | .135/3.43          |      |                 |            |
| TIN: T                                                          |                 | .135/3.43                   |      |                                                                  |            | TIN: T              |                 | OVERALL            |      |                 |            |
| CKTS:                                                           |                 | 2-36                        |      |                                                                  |            | CKTS:               |                 | 2-36               |      |                 |            |
| KINKS:                                                          |                 | PER SMES-42003              |      |                                                                  |            | KINKS:              |                 | PER SMES-42003     |      |                 |            |
| REMOVED BACKWALLS:                                              |                 | NONE                        |      |                                                                  |            | REMOVED BACKWALLS:  |                 | NONE               |      |                 |            |
| VOIDED CKTS:                                                    |                 | NONE                        |      |                                                                  |            | VOIDED CKTS:        |                 | NONE               |      |                 |            |
| PACKAGING:                                                      |                 | BULK PK-40873-0041          |      |                                                                  |            | PACKAGING:          |                 | BULK PK-40873-0043 |      |                 |            |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER                  | CKTS | MATERIAL NUMBER                                                  | ENG NUMBER | CKTS                | MATERIAL NUMBER | ENG NUMBER         | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02                                                              | 22-28-7024      | 42376-0282                  | 20   | 22-28-7204                                                       | 42376-0300 | 02                  | 22-28-7021      | 42376-0317         | 20   | 22-28-7201      | 42376-0335 |
| 03                                                              | 22-28-7034      | 42376-0283                  | 21   | 22-28-7214                                                       | 42376-0301 | 03                  | 22-28-7031      | 42376-0318         | 21   | 22-28-7211      | 42376-0336 |
| 04                                                              | 22-28-7044      | 42376-0284                  | 22   | 22-28-7224                                                       | 42376-0302 | 04                  | 22-28-7041      | 42376-0319         | 22   | 22-28-7221      | 42376-0337 |
| 05                                                              | 22-28-7054      | 42376-0285                  | 23   | 22-28-7234                                                       | 42376-0303 | 05                  | 22-28-7051      | 42376-0320         | 23   | 22-28-7231      | 42376-0338 |
| 06                                                              | 22-28-7064      | 42376-0286                  | 24   | 22-28-7244                                                       | 42376-0304 | 06                  | 22-28-7061      | 42376-0321         | 24   | 22-28-7241      | 42376-0339 |
| 07                                                              | 22-28-7074      | 42376-0287                  | 25   | 22-28-7254                                                       | 42376-0305 | 07                  | 22-28-7071      | 42376-0322         | 25   | 22-28-7251      | 42376-0340 |
| 08                                                              | 22-28-7084      | 42376-0288                  | 26   | 22-28-7264                                                       | 42376-0306 | 08                  | 22-28-7081      | 42376-0323         | 26   | 22-28-7261      | 42376-0341 |
| 09                                                              | 22-28-7094      | 42376-0289                  | 27   | 22-28-7274                                                       | 42376-0307 | 09                  | 22-28-7091      | 42376-0324         | 27   | 22-28-7271      | 42376-0342 |
| 10                                                              | 22-28-7104      | 42376-0290                  | 28   | 22-28-7284                                                       | 42376-0308 | 10                  | 22-28-7101      | 42376-0325         | 28   | 22-28-7281      | 42376-0343 |
| 11                                                              | 22-28-7114      | 42376-0291                  | 29   | 22-28-7294                                                       | 42376-0309 | 11                  | 22-28-7111      | 42376-0326         | 29   | 22-28-7291      | 42376-0344 |
| 12                                                              | 22-28-7124      | 42376-0292                  | 30   | 22-28-7304                                                       | 42376-0310 | 12                  | 22-28-7121      | 42376-0327         | 30   | 22-28-7301      | 42376-0345 |
| 13                                                              | 22-28-7134      | 42376-0293                  | 31   | 22-28-7314                                                       | 42376-0311 | 13                  | 22-28-7131      | 42376-0328         | 31   | 22-28-7311      | 42376-0346 |
| 14                                                              | 22-28-7144      | 42376-0294                  | 32   | 22-28-7324                                                       | 42376-0312 | 14                  | 22-28-7141      | 42376-0329         | 32   | 22-28-7321      | 42376-0347 |
| 15                                                              | 22-28-7154      | 42376-0295                  | 33   | 22-28-7334                                                       | 42376-0313 | 15                  | 22-28-7151      | 42376-0330         | 33   | 22-28-7331      | 42376-0348 |
| 16                                                              | 22-28-7164      | 42376-0296                  | 34   | 22-28-7344                                                       | 42376-0314 | 16                  | 22-28-7161      | 42376-0331         | 34   | 22-28-7341      | 42376-0349 |
| 17                                                              | 22-28-7174      | 42376-0297                  | 35   | 22-28-7354                                                       | 42376-0315 | 17                  | 22-28-7171      | 42376-0332         | 35   | 22-28-7351      | 42376-0350 |
| 18                                                              | 22-28-7184      | 42376-0298                  | 36   | 22-28-7364                                                       | 42376-0316 | 18                  | 22-28-7181      | 42376-0333         | 36   | 22-28-7361      | 42376-0351 |
| 19                                                              | 22-28-7194      | 42376-0299                  |      |                                                                  |            | 19                  | 22-28-7191      | 42376-0334         |      |                 |            |
|                                                                 |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |
| REV:                                                            |                 | ECR / ECN INFORMATION:      |      | TITLE:                                                           |            |                     |                 | SHEET No.          |      |                 |            |
| <b>K13</b>                                                      |                 | EC No.: <b>UCP2009-1603</b> |      | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |            |                     |                 | <b>- 6 -</b>       |      |                 |            |
|                                                                 |                 | DATE: <b>4/23/2009</b>      |      |                                                                  |            |                     |                 |                    |      |                 |            |
| DOCUMENT NUMBER:                                                |                 |                             |      | CREATED / REVISED BY:                                            |            | CHECKED BY:         |                 | APPROVED BY:       |      |                 |            |
| <b>SD- 42376-001</b>                                            |                 |                             |      | <b>MKIPPER</b>                                                   |            | <b>JBELL</b>        |                 | <b>FSMITH</b>      |      |                 |            |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                             |      |                                                                  |            |                     |                 |                    |      |                 |            |



|                                                                 |                 |                                    |      |                                                                  |            |                     |                 |                     |      |                 |            |
|-----------------------------------------------------------------|-----------------|------------------------------------|------|------------------------------------------------------------------|------------|---------------------|-----------------|---------------------|------|-----------------|------------|
|                                                                 |                 |                                    |      |                                                                  |            |                     |                 |                     |      |                 |            |
|                                                                 |                 |                                    |      |                                                                  |            |                     |                 |                     |      |                 |            |
| A-42376-0352 / 0386                                             |                 |                                    |      |                                                                  |            | A-42376-0387 / 0421 |                 |                     |      |                 |            |
| HEADER NUMBER:                                                  |                 | 42312-0002/0036                    |      |                                                                  |            | HEADER NUMBER:      |                 | 42312-0002/0036     |      |                 |            |
| PIN NUMBER:                                                     |                 | 42663-DAB208                       |      |                                                                  |            | PIN NUMBER:         |                 | 42663-DAB228        |      |                 |            |
| PIN LENGTH: L                                                   |                 | .765/19.43                         |      |                                                                  |            | PIN LENGTH: L       |                 | .765/19.43          |      |                 |            |
| MATING LENGTH: M                                                |                 | .405/10.29                         |      |                                                                  |            | MATING LENGTH: M    |                 | .405/10.29          |      |                 |            |
| GOLD POINT: G                                                   |                 | .180/4.57                          |      |                                                                  |            | GOLD POINT: G       |                 | .180/4.57           |      |                 |            |
| PIN HEIGHT: Y                                                   |                 | .248/6.30                          |      |                                                                  |            | PIN HEIGHT: Y       |                 | .248/6.30           |      |                 |            |
| PC TAIL LENGTH: P                                               |                 | .135/3.43                          |      |                                                                  |            | PC TAIL LENGTH: P   |                 | .135/3.43           |      |                 |            |
| TIN: T                                                          |                 | .135/3.43                          |      |                                                                  |            | TIN: T              |                 | .135/3.43           |      |                 |            |
| CKTS:                                                           |                 | 2-36                               |      |                                                                  |            | CKTS:               |                 | 2-36                |      |                 |            |
| KINKS:                                                          |                 | PER SMES-42003                     |      |                                                                  |            | KINKS:              |                 | PER SMES-42003      |      |                 |            |
| REMOVED BACKWALLS:                                              |                 | NONE                               |      |                                                                  |            | REMOVED BACKWALLS:  |                 | NONE                |      |                 |            |
| VOIDED CKTS:                                                    |                 | NONE                               |      |                                                                  |            | VOIDED CKTS:        |                 | NONE                |      |                 |            |
| PACKAGING:                                                      |                 | BULK PK-40873-0043                 |      |                                                                  |            | PACKAGING:          |                 | BULK PK-40873-0043  |      |                 |            |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER                         | CKTS | MATERIAL NUMBER                                                  | ENG NUMBER | CKTS                | MATERIAL NUMBER | ENG NUMBER          | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02                                                              | 22-28-7023      | 42376-0352                         | 20   | 22-28-7203                                                       | 42376-0370 | 02                  | 22-28-7025      | 42376-0387          | 20   | 22-28-7205      | 42376-0405 |
| 03                                                              | 22-28-7033      | 42376-0353                         | 21   | 22-28-7213                                                       | 42376-0371 | 03                  | 22-28-7035      | 42376-0388          | 21   | 22-28-7215      | 42376-0406 |
| 04                                                              | 22-28-7043      | 42376-0354                         | 22   | 22-28-7223                                                       | 42376-0372 | 04                  | 22-28-7045      | 42376-0389          | 22   | 22-28-7225      | 42376-0407 |
| 05                                                              | 22-28-7053      | 42376-0355                         | 23   | 22-28-7233                                                       | 42376-0373 | 05                  | 22-28-7055      | 42376-0390          | 23   | 22-28-7235      | 42376-0408 |
| 06                                                              | 22-28-7063      | 42376-0356                         | 24   | 22-28-7243                                                       | 42376-0374 | 06                  | 22-28-7065      | 42376-0391          | 24   | 22-28-7245      | 42376-0409 |
| 07                                                              | 22-28-7073      | 42376-0357                         | 25   | 22-28-7253                                                       | 42376-0375 | 07                  | 22-28-7075      | 42376-0392          | 25   | 22-28-7255      | 42376-0410 |
| 08                                                              | 22-28-7083      | 42376-0358                         | 26   | 22-28-7263                                                       | 42376-0376 | 08                  | 22-28-7085      | 42376-0393          | 26   | 22-28-7265      | 42376-0411 |
| 09                                                              | 22-28-7093      | 42376-0359                         | 27   | 22-28-7273                                                       | 42376-0377 | 09                  | 22-28-7095      | 42376-0394          | 27   | 22-28-7275      | 42376-0412 |
| 10                                                              | 22-28-7103      | 42376-0360                         | 28   | 22-28-7283                                                       | 42376-0378 | 10                  | 22-28-7105      | 42376-0395          | 28   | 22-28-7285      | 42376-0413 |
| 11                                                              | 22-28-7113      | 42376-0361                         | 29   | 22-28-7293                                                       | 42376-0379 | 11                  | 22-28-7115      | 42376-0396          | 29   | 22-28-7295      | 42376-0414 |
| 12                                                              | 22-28-7123      | 42376-0362                         | 30   | 22-28-7303                                                       | 42376-0380 | 12                  | 22-28-7125      | 42376-0397          | 30   | 22-28-7305      | 42376-0415 |
| 13                                                              | 22-28-7133      | 42376-0363                         | 31   | 22-28-7313                                                       | 42376-0381 | 13                  | 22-28-7135      | 42376-0398          | 31   | 22-28-7315      | 42376-0416 |
| 14                                                              | 22-28-7143      | 42376-0364                         | 32   | 22-28-7323                                                       | 42376-0382 | 14                  | 22-28-7145      | 42376-0399          | 32   | 22-28-7325      | 42376-0417 |
| 15                                                              | 22-28-7153      | 42376-0365                         | 33   | 22-28-7333                                                       | 42376-0383 | 15                  | 22-28-7155      | 42376-0400          | 33   | 22-28-7335      | 42376-0418 |
| 16                                                              | 22-28-7163      | 42376-0366                         | 34   | 22-28-7343                                                       | 42376-0384 | 16                  | 22-28-7165      | 42376-0401          | 34   | 22-28-7345      | 42376-0419 |
| 17                                                              | 22-28-7173      | 42376-0367                         | 35   | 22-28-7353                                                       | 42376-0385 | 17                  | 22-28-7175      | 42376-0402          | 35   | 22-28-7355      | 42376-0420 |
| 18                                                              | 22-28-7183      | 42376-0368                         | 36   | 22-28-7363                                                       | 42376-0386 | 18                  | 22-28-7185      | 42376-0403          | 36   | 22-28-7365      | 42376-0421 |
| 19                                                              | 22-28-7193      | 42376-0369                         |      |                                                                  |            | 19                  | 22-28-7195      | 42376-0404          |      |                 |            |
|                                                                 |                 |                                    |      |                                                                  |            |                     |                 |                     |      |                 |            |
| REV:                                                            |                 | ECR / ECN INFORMATION:             |      | <u>TITLE:</u>                                                    |            |                     |                 | <u>SHEET No.</u>    |      |                 |            |
| <b>K13</b>                                                      |                 | <u>EC No.:</u> <b>UCP2009-1603</b> |      | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |            |                     |                 | <b>- 7 -</b>        |      |                 |            |
|                                                                 |                 | <u>DATE:</u> <b>4/23/2009</b>      |      |                                                                  |            |                     |                 |                     |      |                 |            |
| <u>DOCUMENT NUMBER:</u>                                         |                 |                                    |      | <u>CREATED / REVISED BY:</u>                                     |            | <u>CHECKED BY:</u>  |                 | <u>APPROVED BY:</u> |      |                 |            |
| <b>SD- 42376-001</b>                                            |                 |                                    |      | <b>MKIPPER</b>                                                   |            | <b>JBELL</b>        |                 | <b>FSMITH</b>       |      |                 |            |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                                    |      |                                                                  |            |                     |                 |                     |      |                 |            |

|                                                                 |                 |                             |                 |  |  |                                                                                        |                 |                    |                 |              |  |                    |                 |                 |                 |                   |  |  |  |
|-----------------------------------------------------------------|-----------------|-----------------------------|-----------------|--|--|----------------------------------------------------------------------------------------|-----------------|--------------------|-----------------|--------------|--|--------------------|-----------------|-----------------|-----------------|-------------------|--|--|--|
|                                                                 |                 |                             |                 |  |  |                                                                                        |                 |                    |                 |              |  |                    |                 |                 |                 |                   |  |  |  |
| A-42376-0422/0456                                               |                 |                             |                 |  |  |                                                                                        |                 | A-42376-0549/0581  |                 |              |  |                    |                 |                 |                 | A-42376-0582/0616 |  |  |  |
| HEADER NUMBER:                                                  |                 | 42312-0002/0036             |                 |  |  | HEADER NUMBER:                                                                         |                 | 42312-0004/0036    |                 |              |  | HEADER NUMBER:     |                 | 42312-0002/0036 |                 |                   |  |  |  |
| PIN NUMBER:                                                     |                 | 42663-ATA154                |                 |  |  | PIN NUMBER:                                                                            |                 | 42663-DAA154       |                 |              |  | PIN NUMBER:        |                 | 42663-DCA154    |                 |                   |  |  |  |
| PIN LENGTH: L                                                   |                 | .530/13.46                  |                 |  |  | PIN LENGTH: L                                                                          |                 | .765/19.43         |                 |              |  | PIN LENGTH: L      |                 | .775/19.69      |                 |                   |  |  |  |
| MATING LENGTH: M                                                |                 | .276/7.01                   |                 |  |  | MATING LENGTH: M                                                                       |                 | .405/10.29         |                 |              |  | MATING LENGTH: M   |                 | .524/13.31      |                 |                   |  |  |  |
| GOLD POINT: G                                                   |                 | N/A                         |                 |  |  | GOLD POINT: G                                                                          |                 | N/A                |                 |              |  | GOLD POINT: G      |                 | N/A             |                 |                   |  |  |  |
| PIN HEIGHT: Y                                                   |                 | .142/3.61                   |                 |  |  | PIN HEIGHT: Y                                                                          |                 | .248/6.30          |                 |              |  | PIN HEIGHT: Y      |                 | .142/3.61       |                 |                   |  |  |  |
| PC TAIL LENGTH: P                                               |                 | .135/3.43                   |                 |  |  | PC TAIL LENGTH: P                                                                      |                 | .135/3.43          |                 |              |  | PC TAIL LENGTH: P  |                 | .131/3.33       |                 |                   |  |  |  |
| TIN: T                                                          |                 | OVERALL                     |                 |  |  | TIN: T                                                                                 |                 | OVERALL            |                 |              |  | TIN: T             |                 | OVERALL         |                 |                   |  |  |  |
| CKTS:                                                           |                 | 2-36                        |                 |  |  | CKTS:                                                                                  |                 | 4-36               |                 |              |  | CKTS:              |                 | 2-36            |                 |                   |  |  |  |
| KINKS:                                                          |                 | PER SMES-42003              |                 |  |  | KINKS:                                                                                 |                 | PER SMES-42003     |                 |              |  | KINKS:             |                 | NONE            |                 |                   |  |  |  |
| REMOVED BACKWALLS:                                              |                 | NONE                        |                 |  |  | REMOVED BACKWALLS:                                                                     |                 | NONE               |                 |              |  | REMOVED BACKWALLS: |                 | NONE            |                 |                   |  |  |  |
| VOIDED CKTS:                                                    |                 | NONE                        |                 |  |  | VOIDED CKTS:                                                                           |                 | 3                  |                 |              |  | VOIDED CKTS:       |                 | NONE            |                 |                   |  |  |  |
| PACKAGING                                                       |                 | PK-40873-0041               |                 |  |  | PACKAGING                                                                              |                 | BULK PK-40873-0043 |                 |              |  | PACKAGING          |                 | PK-40873-0043   |                 |                   |  |  |  |
| CKTS                                                            | MATERIAL NUMBER | CKTS                        | MATERIAL NUMBER |  |  | CKTS                                                                                   | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |              |  | CKTS               | MATERIAL NUMBER | CKTS            | MATERIAL NUMBER |                   |  |  |  |
| 02                                                              | 42376-0422      | 20                          | 42376-0440      |  |  | 02                                                                                     |                 | 20                 | 42376-0565      |              |  | 02                 | 42376-0582      | 20              | 42376-0600      |                   |  |  |  |
| 03                                                              | 42376-0423      | 21                          | 42376-0441      |  |  | 03                                                                                     |                 | 21                 | 42376-0566      |              |  | 03                 | 42376-0583      | 21              | 42376-0601      |                   |  |  |  |
| 04                                                              | 42376-0424      | 22                          | 42376-0442      |  |  | 04                                                                                     | 42376-0549      | 22                 | 42376-0567      |              |  | 04                 | 42376-0584      | 22              | 42376-0602      |                   |  |  |  |
| 05                                                              | 42376-0425      | 23                          | 42376-0443      |  |  | 05                                                                                     | 42376-0550      | 23                 | 42376-0568      |              |  | 05                 | 42376-0585      | 23              | 42376-0603      |                   |  |  |  |
| 06                                                              | 42376-0426      | 24                          | 42376-0444      |  |  | 06                                                                                     | 42376-0551      | 24                 | 42376-0569      |              |  | 06                 | 42376-0586      | 24              | 42376-0604      |                   |  |  |  |
| 07                                                              | 42376-0427      | 25                          | 42376-0445      |  |  | 07                                                                                     | 42376-0552      | 25                 | 42376-0570      |              |  | 07                 | 42376-0587      | 25              | 42376-0605      |                   |  |  |  |
| 08                                                              | 42376-0428      | 26                          | 42376-0446      |  |  | 08                                                                                     | 42376-0553      | 26                 | 42376-0571      |              |  | 08                 | 42376-0588      | 26              | 42376-0606      |                   |  |  |  |
| 09                                                              | 42376-0429      | 27                          | 42376-0447      |  |  | 09                                                                                     | 42376-0554      | 27                 | 42376-0572      |              |  | 09                 | 42376-0589      | 27              | 42376-0607      |                   |  |  |  |
| 10                                                              | 42376-0430      | 28                          | 42376-0448      |  |  | 10                                                                                     | 42376-0555      | 28                 | 42376-0573      |              |  | 10                 | 42376-0590      | 28              | 42376-0608      |                   |  |  |  |
| 11                                                              | 42376-0431      | 29                          | 42376-0449      |  |  | 11                                                                                     | 42376-0556      | 29                 | 42376-0574      |              |  | 11                 | 42376-0591      | 29              | 42376-0609      |                   |  |  |  |
| 12                                                              | 42376-0432      | 30                          | 42376-0450      |  |  | 12                                                                                     | 42376-0557      | 30                 | 42376-0575      |              |  | 12                 | 42376-0592      | 30              | 42376-0610      |                   |  |  |  |
| 13                                                              | 42376-0433      | 31                          | 42376-0451      |  |  | 13                                                                                     | 42376-0558      | 31                 | 42376-0576      |              |  | 13                 | 42376-0593      | 31              | 42376-0611      |                   |  |  |  |
| 14                                                              | 42376-0434      | 32                          | 42376-0452      |  |  | 14                                                                                     | 42376-0559      | 32                 | 42376-0577      |              |  | 14                 | 42376-0594      | 32              | 42376-0612      |                   |  |  |  |
| 15                                                              | 42376-0435      | 33                          | 42376-0453      |  |  | 15                                                                                     | 42376-0560      | 33                 | 42376-0578      |              |  | 15                 | 42376-0595      | 33              | 42376-0613      |                   |  |  |  |
| 16                                                              | 42376-0436      | 34                          | 42376-0454      |  |  | 16                                                                                     | 42376-0561      | 34                 | 42376-0579      |              |  | 16                 | 42376-0596      | 34              | 42376-0614      |                   |  |  |  |
| 17                                                              | 42376-0437      | 35                          | 42376-0455      |  |  | 17                                                                                     | 42376-0562      | 35                 | 42376-0580      |              |  | 17                 | 42376-0597      | 35              | 42376-0615      |                   |  |  |  |
| 18                                                              | 42376-0438      | 36                          | 42376-0456      |  |  | 18                                                                                     | 42376-0563      | 36                 | 42376-0581      |              |  | 18                 | 42376-0598      | 36              | 42376-0616      |                   |  |  |  |
| 19                                                              | 42376-0439      |                             |                 |  |  | 19                                                                                     | 42376-0564      |                    |                 |              |  | 19                 | 42376-0599      |                 |                 |                   |  |  |  |
|                                                                 |                 |                             |                 |  |  |                                                                                        |                 |                    |                 |              |  |                    |                 |                 |                 |                   |  |  |  |
| REV:                                                            |                 | ECR / ECN INFORMATION:      |                 |  |  | TITLE:                                                                                 |                 |                    |                 |              |  | SHEET No.          |                 |                 |                 |                   |  |  |  |
| <b>K13</b>                                                      |                 | EC No.: <b>UCP2009-1603</b> |                 |  |  | <b>KK 100 HEADER ASSEMBLY<br/>           FLAT RIGHT ANGLE<br/>           BREAKAWAY</b> |                 |                    |                 |              |  | <b>- 8 -</b>       |                 |                 |                 |                   |  |  |  |
|                                                                 |                 | DATE: <b>4/23/2009</b>      |                 |  |  |                                                                                        |                 |                    |                 |              |  |                    |                 |                 |                 |                   |  |  |  |
| DOCUMENT NUMBER:                                                |                 |                             |                 |  |  | CREATED / REVISED BY:                                                                  |                 |                    |                 | CHECKED BY:  |  |                    |                 | APPROVED BY:    |                 |                   |  |  |  |
| <b>SD- 42376-001</b>                                            |                 |                             |                 |  |  | <b>MKIPPER</b>                                                                         |                 |                    |                 | <b>JBELL</b> |  |                    |                 | <b>FSMITH</b>   |                 |                   |  |  |  |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                             |                 |  |  |                                                                                        |                 |                    |                 |              |  |                    |                 |                 |                 |                   |  |  |  |

|                                                            |                 |                             |                    |                 |                                                                                |  |             |  |              |                                                                                      |  |
|------------------------------------------------------------|-----------------|-----------------------------|--------------------|-----------------|--------------------------------------------------------------------------------|--|-------------|--|--------------|--------------------------------------------------------------------------------------|--|
|                                                            |                 |                             |                    |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 42376-0683 / ----                                          |                 |                             |                    |                 |                                                                                |  |             |  |              |                                                                                      |  |
| HEADER NUMBER:                                             |                 |                             | 42312-0002/0036    |                 |                                                                                |  |             |  |              |                                                                                      |  |
| PIN NUMBER:                                                |                 |                             | 42663-CTB208       |                 |                                                                                |  |             |  |              |                                                                                      |  |
| PIN LENGTH: L                                              |                 |                             | .740/18.80         |                 |                                                                                |  |             |  |              |                                                                                      |  |
| MATING LENGTH: M                                           |                 |                             | .405/10.29         |                 |                                                                                |  |             |  |              |                                                                                      |  |
| GOLD POINT: G                                              |                 |                             | .180/4.57          |                 |                                                                                |  |             |  |              |                                                                                      |  |
| PIN HEIGHT: Y                                              |                 |                             | .235/5.97          |                 |                                                                                |  |             |  |              |                                                                                      |  |
| PC TAIL LENGTH: P                                          |                 |                             | .123/3.12          |                 |                                                                                |  |             |  |              |                                                                                      |  |
| TIN: T                                                     |                 |                             | .135/3.43          |                 |                                                                                |  |             |  |              |                                                                                      |  |
| CKTS:                                                      |                 |                             | 2-36               |                 |                                                                                |  |             |  |              |                                                                                      |  |
| KINKS:                                                     |                 |                             | NONE               |                 |                                                                                |  |             |  |              |                                                                                      |  |
| REMOVED BACKWALLS:                                         |                 |                             | NONE               |                 |                                                                                |  |             |  |              |                                                                                      |  |
| VOIDED CKTS:                                               |                 |                             | NONE               |                 |                                                                                |  |             |  |              |                                                                                      |  |
| PACKAGING:                                                 |                 |                             | BULK PK-40873-0041 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| CKTS                                                       | MATERIAL NUMBER | ENG NUMBER                  | CKTS               | MATERIAL NUMBER | ENG NUMBER                                                                     |  |             |  |              |                                                                                      |  |
| 02                                                         |                 |                             | 20                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 03                                                         |                 |                             | 21                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 04                                                         |                 |                             | 22                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 05                                                         |                 |                             | 23                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 06                                                         | 423760687       | 42376-0687                  | 24                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 07                                                         |                 |                             | 25                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 08                                                         |                 |                             | 26                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 09                                                         |                 |                             | 27                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 10                                                         |                 |                             | 28                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 11                                                         |                 |                             | 29                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 12                                                         |                 |                             | 30                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 13                                                         |                 |                             | 31                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 14                                                         |                 |                             | 32                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 15                                                         |                 |                             | 33                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 16                                                         |                 |                             | 34                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 17                                                         |                 |                             | 35                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 18                                                         |                 |                             | 36                 |                 |                                                                                |  |             |  |              |                                                                                      |  |
| 19                                                         |                 |                             |                    |                 |                                                                                |  |             |  |              |                                                                                      |  |
|                                                            |                 |                             |                    |                 |                                                                                |  |             |  |              |                                                                                      |  |
| REV:                                                       |                 | ECR / ECN INFORMATION:      |                    |                 | <u>TITLE:</u> <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |  |             |  |              | <u>SHEET No.</u><br><br><div style="font-size: 24pt; font-weight: bold;">- 9 -</div> |  |
| <div style="font-size: 24pt; font-weight: bold;">K13</div> |                 | EC No.: <b>UCP2009-1603</b> |                    |                 |                                                                                |  |             |  |              |                                                                                      |  |
|                                                            |                 | DATE: <b>4/23/2009</b>      |                    |                 |                                                                                |  |             |  |              |                                                                                      |  |
| DOCUMENT NUMBER:                                           |                 |                             |                    |                 | CREATED / REVISED BY:                                                          |  | CHECKED BY: |  | APPROVED BY: |                                                                                      |  |
| SD- 42376-001                                              |                 |                             |                    |                 | MKIPPER                                                                        |  | JBELL       |  | FSMITH       |                                                                                      |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC           |                 |                             |                    |                 |                                                                                |  |             |  |              |                                                                                      |  |

| 42376-0718 / ----  |                 |                    |      |                 |            |
|--------------------|-----------------|--------------------|------|-----------------|------------|
| HEADER NUMBER:     |                 | 42312-0002/0036    |      |                 |            |
| PIN NUMBER:        |                 | 42663-ANA154       |      |                 |            |
| PIN LENGTH: L      |                 | .510/12.95         |      |                 |            |
| MATING LENGTH: M   |                 | .175/4.45          |      |                 |            |
| GOLD POINT: G      |                 | N/A                |      |                 |            |
| PIN HEIGHT: Y      |                 | .248/6.30          |      |                 |            |
| PC TAIL LENGTH: P  |                 | .100/2.54          |      |                 |            |
| TIN: T             |                 | OVERALL            |      |                 |            |
| CKTS:              |                 | 2-36               |      |                 |            |
| KINKS:             |                 | NONE               |      |                 |            |
| REMOVED BACKWALLS: |                 | NONE               |      |                 |            |
| VOIDED CKTS:       |                 | NONE               |      |                 |            |
| PACKAGING:         |                 | BULK PK-40873-0041 |      |                 |            |
| CKTS               | MATERIAL NUMBER | ENG NUMBER         | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02                 | 423760718       | 42376-0718         | 20   |                 |            |
| 03                 |                 |                    | 21   |                 |            |
| 04                 |                 |                    | 22   |                 |            |
| 05                 |                 |                    | 23   |                 |            |
| 06                 |                 |                    | 24   |                 |            |
| 07                 |                 |                    | 25   |                 |            |
| 08                 |                 |                    | 26   |                 |            |
| 09                 |                 |                    | 27   |                 |            |
| 10                 |                 |                    | 28   |                 |            |
| 11                 |                 |                    | 29   |                 |            |
| 12                 |                 |                    | 30   |                 |            |
| 13                 |                 |                    | 31   |                 |            |
| 14                 |                 |                    | 32   |                 |            |
| 15                 |                 |                    | 33   |                 |            |
| 16                 |                 |                    | 34   |                 |            |
| 17                 |                 |                    | 35   |                 |            |
| 18                 |                 |                    | 36   |                 |            |
| 19                 |                 |                    |      |                 |            |

|                                                  |                 |                             |                    |                 |                                                                       |  |                    |  |                     |                  |  |
|--------------------------------------------------|-----------------|-----------------------------|--------------------|-----------------|-----------------------------------------------------------------------|--|--------------------|--|---------------------|------------------|--|
|                                                  |                 |                             |                    |                 |                                                                       |  |                    |  |                     |                  |  |
| 42376-0753 / 0787                                |                 |                             |                    |                 |                                                                       |  |                    |  |                     |                  |  |
| HEADER NUMBER:                                   |                 |                             | 42312-0002/0036    |                 |                                                                       |  |                    |  |                     |                  |  |
| PIN NUMBER:                                      |                 |                             | 42663-BBA154       |                 |                                                                       |  |                    |  |                     |                  |  |
| PIN LENGTH: L                                    |                 |                             | .560/14.22         |                 |                                                                       |  |                    |  |                     |                  |  |
| MATING LENGTH: M                                 |                 |                             | .208/5.28          |                 |                                                                       |  |                    |  |                     |                  |  |
| GOLD POINT: G                                    |                 |                             | N/A                |                 |                                                                       |  |                    |  |                     |                  |  |
| PIN HEIGHT: Y                                    |                 |                             | .248/6.30          |                 |                                                                       |  |                    |  |                     |                  |  |
| PC TAIL LENGTH: P                                |                 |                             | .120/3.05          |                 |                                                                       |  |                    |  |                     |                  |  |
| TIN: T                                           |                 |                             | OVERALL            |                 |                                                                       |  |                    |  |                     |                  |  |
| CKTS:                                            |                 |                             | 2-36               |                 |                                                                       |  |                    |  |                     |                  |  |
| KINKS:                                           |                 |                             | NONE               |                 |                                                                       |  |                    |  |                     |                  |  |
| REMOVED BACKWALLS:                               |                 |                             | NONE               |                 |                                                                       |  |                    |  |                     |                  |  |
| VOIDED CKTS:                                     |                 |                             | NONE               |                 |                                                                       |  |                    |  |                     |                  |  |
| PACKAGING:                                       |                 |                             | BULK PK-40873-0041 |                 |                                                                       |  |                    |  |                     |                  |  |
| CKTS                                             | MATERIAL NUMBER | ENG NUMBER                  | CKTS               | MATERIAL NUMBER | ENG NUMBER                                                            |  |                    |  |                     |                  |  |
| 02                                               |                 |                             | 20                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 03                                               |                 |                             | 21                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 04                                               |                 |                             | 22                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 05                                               | 423760756       | 42376-0756                  | 23                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 06                                               |                 |                             | 24                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 07                                               |                 |                             | 25                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 08                                               |                 |                             | 26                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 09                                               |                 |                             | 27                 | 423760778       | 42376-0778                                                            |  |                    |  |                     |                  |  |
| 10                                               |                 |                             | 28                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 11                                               |                 |                             | 29                 | 423760780       | 42376-0780                                                            |  |                    |  |                     |                  |  |
| 12                                               |                 |                             | 30                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 13                                               |                 |                             | 31                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 14                                               |                 |                             | 32                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 15                                               |                 |                             | 33                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 16                                               |                 |                             | 34                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 17                                               |                 |                             | 35                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 18                                               |                 |                             | 36                 |                 |                                                                       |  |                    |  |                     |                  |  |
| 19                                               |                 |                             |                    |                 |                                                                       |  |                    |  |                     |                  |  |
|                                                  |                 |                             |                    |                 |                                                                       |  |                    |  |                     |                  |  |
| REV:                                             |                 | ECR / ECN INFORMATION:      |                    |                 | <u>TITLE:</u> KK 100 HEADER ASSEMBLY<br>FLAT RIGHT ANGLE<br>BREAKAWAY |  |                    |  |                     | <u>SHEET No.</u> |  |
| K13                                              |                 | <u>EC No.:</u> UCP2009-1603 |                    |                 |                                                                       |  |                    |  |                     | - 10 -           |  |
|                                                  |                 | <u>DATE:</u> 4/23/2009      |                    |                 |                                                                       |  |                    |  |                     |                  |  |
| <u>DOCUMENT NUMBER:</u>                          |                 |                             |                    |                 | <u>CREATED / REVISED BY:</u>                                          |  | <u>CHECKED BY:</u> |  | <u>APPROVED BY:</u> |                  |  |
| SD- 42376-001                                    |                 |                             |                    |                 | MKIPPER                                                               |  | JBELL              |  | FSMITH              |                  |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |                             |                    |                 |                                                                       |  |                    |  |                     |                  |  |

| 42376-0788 / 0822  |                 |            |                    |                 |            |
|--------------------|-----------------|------------|--------------------|-----------------|------------|
| HEADER NUMBER:     |                 |            | 42312-0002/0036    |                 |            |
| PIN NUMBER:        |                 |            | 42663-DHA154       |                 |            |
| PIN LENGTH: L      |                 |            | .800 / 20.32       |                 |            |
| MATING LENGTH: M   |                 |            | .350 / 8.90        |                 |            |
| GOLD POINT: G      |                 |            | N/A                |                 |            |
| PIN HEIGHT: Y      |                 |            | .354 / 9.00        |                 |            |
| PC TAIL LENGTH: P  |                 |            | .118 / 3.00        |                 |            |
| TIN: T             |                 |            | OVERALL            |                 |            |
| CKTS:              |                 |            | 2-36               |                 |            |
| KINKS:             |                 |            | NONE               |                 |            |
| REMOVED BACKWALLS: |                 |            | NONE               |                 |            |
| VOIDED CKTS:       |                 |            | NONE               |                 |            |
| PACKAGING:         |                 |            | BULK PK-40873-0041 |                 |            |
| CKTS               | MATERIAL NUMBER | ENG NUMBER | CKTS               | MATERIAL NUMBER | ENG NUMBER |
| 02                 |                 |            | 20                 |                 |            |
| 03                 |                 |            | 21                 |                 |            |
| 04                 | 423760790       | 42376-0790 | 22                 |                 |            |
| 05                 |                 |            | 23                 |                 |            |
| 06                 | 423760792       | 42376-0792 | 24                 |                 |            |
| 07                 |                 |            | 25                 |                 |            |
| 08                 |                 |            | 26                 |                 |            |
| 09                 |                 |            | 27                 |                 |            |
| 10                 |                 |            | 28                 |                 |            |
| 11                 |                 |            | 29                 |                 |            |
| 12                 |                 |            | 30                 |                 |            |
| 13                 |                 |            | 31                 |                 |            |
| 14                 |                 |            | 32                 |                 |            |
| 15                 |                 |            | 33                 |                 |            |
| 16                 |                 |            | 34                 |                 |            |
| 17                 |                 |            | 35                 |                 |            |
| 18                 |                 |            | 36                 |                 |            |
| 19                 |                 |            |                    |                 |            |