

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0022289055](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch KK® Header, Breakaway, Right Angle Surface Mount  
Compatible, 5 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, Mating Pin Length  
8.23mm (.324"), with Kinked PC Tails

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)

[Product Specification PS-10-07 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

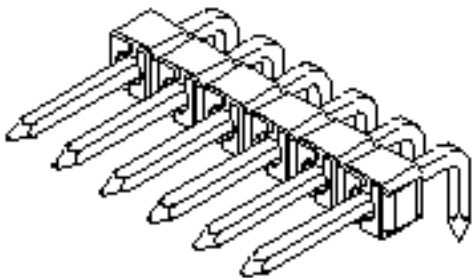
CSA LR19980  
UL E29179

**General**

Product Family PCB Headers  
Series [42377](#)  
Application Board-to-Board, Wire-to-Board  
Product Name KK®

**Physical**

Breakaway Yes  
Circuits (Loaded) 5  
Circuits (maximum) 5  
Color - Resin Black  
Durability (mating cycles max) 100  
Flammability 94V-0  
Glow-Wire Compliant No  
Lock to Mating Part None  
Material - Metal Brass  
Material - Plating Mating Gold  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
Number of Rows 1  
Orientation Right Angle  
PC Tail Length (in) 0.135 In  
PC Tail Length (mm) 3.43 mm  
PCB Locator No  
PCB Retention Yes  
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) 30  
Plating min: Mating (µm) 0.75  
Plating min: Termination (µin) 100  
Plating min: Termination (µm) 2.5  
Polarized to Mating Part Yes  
Polarized to PCB No  
Shrouded Partial  
Stackable No  
Surface Mount Compatible (SMC) Yes  
Temperature Range - Operating 0°C to +75°C  
Termination Interface: Style Through Hole



Series

image - Reference only

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**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**  
[42377Series](#)

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

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 4A   |
| Voltage - Maximum             | 250V |

**Solder Process Data**

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

**Material Info**

|                 |            |
|-----------------|------------|
| Old Part Number | 42377-0390 |
|-----------------|------------|

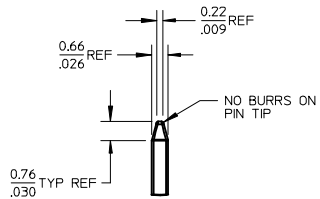
**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-10-07     |
| Sales Drawing         | SD-42377-001 |

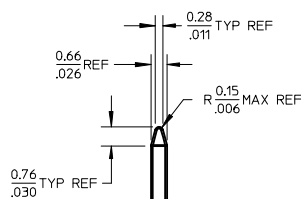
This document was generated on 04/12/2010

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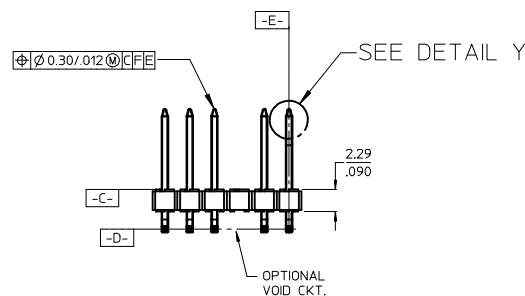
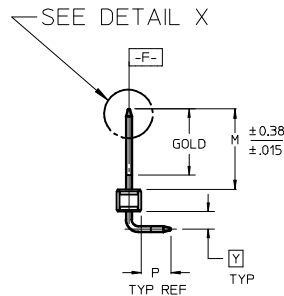
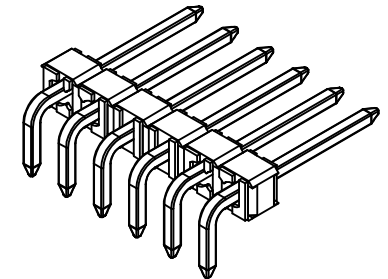
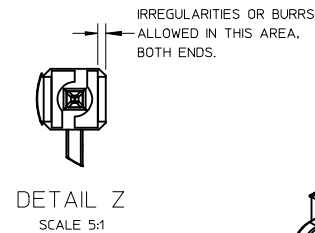
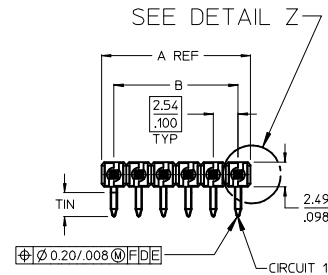
|          | 10     | 9      | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----------|--------|--------|---|---|---|---|---|---|---|---|
| NO. CKTS | DIM. A | DIM. B |   |   |   |   |   |   |   |   |
| 2        | 5.08   | 2.54   |   |   |   |   |   |   |   |   |
|          | .200   | .100   |   |   |   |   |   |   |   |   |
| 3        | 7.62   | 5.08   |   |   |   |   |   |   |   |   |
|          | .300   | .200   |   |   |   |   |   |   |   |   |
| 4        | 10.16  | 7.62   |   |   |   |   |   |   |   |   |
|          | .400   | .300   |   |   |   |   |   |   |   |   |
| 5        | 12.70  | 10.16  |   |   |   |   |   |   |   |   |
|          | .500   | .400   |   |   |   |   |   |   |   |   |
| 6        | 15.24  | 12.70  |   |   |   |   |   |   |   |   |
|          | .600   | .500   |   |   |   |   |   |   |   |   |
| 7        | 17.78  | 15.24  |   |   |   |   |   |   |   |   |
|          | .700   | .600   |   |   |   |   |   |   |   |   |
| 8        | 20.32  | 17.78  |   |   |   |   |   |   |   |   |
|          | .800   | .700   |   |   |   |   |   |   |   |   |
| 9        | 22.86  | 20.32  |   |   |   |   |   |   |   |   |
|          | .900   | .800   |   |   |   |   |   |   |   |   |
| 10       | 25.40  | 22.86  |   |   |   |   |   |   |   |   |
|          | 1.000  | .900   |   |   |   |   |   |   |   |   |
| 11       | 27.94  | 25.40  |   |   |   |   |   |   |   |   |
|          | 1.100  | 1.000  |   |   |   |   |   |   |   |   |
| 12       | 30.48  | 27.94  |   |   |   |   |   |   |   |   |
|          | 1.200  | 1.100  |   |   |   |   |   |   |   |   |
| 13       | 33.02  | 30.48  |   |   |   |   |   |   |   |   |
|          | 1.300  | 1.200  |   |   |   |   |   |   |   |   |
| 14       | 35.56  | 33.02  |   |   |   |   |   |   |   |   |
|          | 1.400  | 1.300  |   |   |   |   |   |   |   |   |
| 15       | 38.10  | 35.56  |   |   |   |   |   |   |   |   |
|          | 1.500  | 1.400  |   |   |   |   |   |   |   |   |
| 16       | 40.64  | 38.10  |   |   |   |   |   |   |   |   |
|          | 1.600  | 1.500  |   |   |   |   |   |   |   |   |
| 17       | 43.18  | 40.64  |   |   |   |   |   |   |   |   |
|          | 1.700  | 1.600  |   |   |   |   |   |   |   |   |
| 18       | 45.72  | 43.18  |   |   |   |   |   |   |   |   |
|          | 1.800  | 1.700  |   |   |   |   |   |   |   |   |
| 19       | 48.26  | 45.72  |   |   |   |   |   |   |   |   |
|          | 1.900  | 1.800  |   |   |   |   |   |   |   |   |
| 20       | 50.80  | 48.26  |   |   |   |   |   |   |   |   |
|          | 2.000  | 1.900  |   |   |   |   |   |   |   |   |
| 21       | 53.34  | 50.80  |   |   |   |   |   |   |   |   |
|          | 2.100  | 2.000  |   |   |   |   |   |   |   |   |
| 22       | 55.88  | 53.34  |   |   |   |   |   |   |   |   |
|          | 2.200  | 2.100  |   |   |   |   |   |   |   |   |
| 23       | 58.42  | 55.88  |   |   |   |   |   |   |   |   |
|          | 2.300  | 2.200  |   |   |   |   |   |   |   |   |
| 24       | 60.96  | 58.42  |   |   |   |   |   |   |   |   |
|          | 2.400  | 2.300  |   |   |   |   |   |   |   |   |
| 25       | 63.50  | 60.96  |   |   |   |   |   |   |   |   |
|          | 2.500  | 2.400  |   |   |   |   |   |   |   |   |
| 26       | 66.04  | 63.50  |   |   |   |   |   |   |   |   |
|          | 2.600  | 2.500  |   |   |   |   |   |   |   |   |
| 27       | 68.58  | 66.04  |   |   |   |   |   |   |   |   |
|          | 2.700  | 2.600  |   |   |   |   |   |   |   |   |
| 28       | 71.12  | 68.58  |   |   |   |   |   |   |   |   |
|          | 2.800  | 2.700  |   |   |   |   |   |   |   |   |
| 29       | 73.66  | 71.12  |   |   |   |   |   |   |   |   |
|          | 2.900  | 2.800  |   |   |   |   |   |   |   |   |
| 30       | 76.20  | 73.66  |   |   |   |   |   |   |   |   |
|          | 3.000  | 2.900  |   |   |   |   |   |   |   |   |
| 31       | 78.74  | 76.20  |   |   |   |   |   |   |   |   |
|          | 3.100  | 3.000  |   |   |   |   |   |   |   |   |
| 32       | 81.28  | 78.74  |   |   |   |   |   |   |   |   |
|          | 3.200  | 3.100  |   |   |   |   |   |   |   |   |
| 33       | 83.82  | 81.28  |   |   |   |   |   |   |   |   |
|          | 3.300  | 3.200  |   |   |   |   |   |   |   |   |
| 34       | 86.36  | 83.82  |   |   |   |   |   |   |   |   |
|          | 3.400  | 3.300  |   |   |   |   |   |   |   |   |
| 35       | 88.90  | 86.36  |   |   |   |   |   |   |   |   |
|          | 3.500  | 3.400  |   |   |   |   |   |   |   |   |
| 36       | 91.44  | 88.90  |   |   |   |   |   |   |   |   |
|          | 3.600  | 3.500  |   |   |   |   |   |   |   |   |



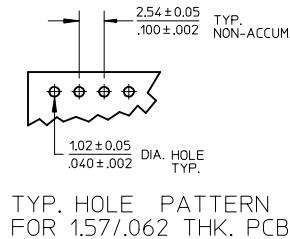
DETAIL X  
SCALE 5:1  
SEE NOTE 10



DETAIL Y  
SCALE 5:1  
SEE NOTE 10



- NOTES:
- MATERIAL: GLASS FILLED NYLON  
UL94V-0, COLOR: BLACK
  - 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 PLATING.
  - PRODUCT SPECIFICATION: PS 10-07.
  - PACKAGING INFORMATION: SEE TABLES
  - SOLDERABILITY PER SMES-152.
  - PIN PUSH OUT FORCE: 3 LBS. MIN
  - SEE SMES-42003 FOR ADDITIONAL INFORMATION ON KINK PIN DIRECTION AND PLACEMENT.
  - HEADERS ARE NOT STACKABLE ON 2.54/.100 CENTERS.
  - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
  - PIN TIP DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. DIMENSIONS APPLY PRIOR TO PLATING OR ASSEMBLY.



|                                                                                                                          |  |                                                            |      |                                                      |                                       |                                                                                                                               |                                                                  |           |              |                      |                        |  |
|--------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|------|------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------|--------------|----------------------|------------------------|--|
| ADD PN 42377-1429<br>EC NO: UCP2009-0952<br>DRWN:MK/PPER 2008/10/27<br>CHKD: J.BELL 2008/10/30<br>APPR:FSM/TH 2008/10/31 |  |                                                            |      | QUALITY SYMBOLS<br><br>▽=0<br>▽=0<br><br>DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                               | DIMENSION STYLE<br>MM/IN                                         |           | SCALE<br>2:1 | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION |  |
|                                                                                                                          |  | mm                                                         | INCH |                                                      | DRAWN BY<br>JSCHAFFER                 | DATE<br>11/24/03                                                                                                              | TITLE<br>KK 100 HEADER ASSEMBLY<br>FLAT RIGHT ANGLE<br>BREAKAWAY |           |              |                      |                        |  |
|                                                                                                                          |  | 4 PLACES ± --- ± ---                                       |      |                                                      | CHECKED BY<br>SAMIEC                  | DATE<br>11/24/03                                                                                                              |                                                                  |           |              |                      |                        |  |
|                                                                                                                          |  | 3 PLACES ± --- ± .010                                      |      |                                                      | APPROVED BY<br>MARGULIS               | DATE<br>11/24/03                                                                                                              | MOLEX MOLEX INCORPORATED                                         |           |              |                      |                        |  |
|                                                                                                                          |  | 2 PLACES ± 0.25 ± .015                                     |      | MATERIAL NO.                                         |                                       | DOCUMENT NO.                                                                                                                  |                                                                  | SHEET NO. |              |                      |                        |  |
|                                                                                                                          |  | 1 PLACE ± 0.38 ± ---                                       |      | SEE CHART                                            |                                       | SD-42377-001                                                                                                                  |                                                                  | 1 OF *    |              |                      |                        |  |
|                                                                                                                          |  | ANGULAR ±1/2°                                              |      |                                                      |                                       |                                                                                                                               |                                                                  |           |              |                      |                        |  |
|                                                                                                                          |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |      | SIZE<br>B                                            |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                  |           |              |                      |                        |  |
| X1                                                                                                                       |  | REV                                                        |      |                                                      |                                       |                                                                                                                               |                                                                  |           |              |                      |                        |  |

|                                                                 |                 |                      |                    |                 |                                                                                    |                       |                 |            |                    |                 |            |
|-----------------------------------------------------------------|-----------------|----------------------|--------------------|-----------------|------------------------------------------------------------------------------------|-----------------------|-----------------|------------|--------------------|-----------------|------------|
|                                                                 |                 |                      |                    |                 |                                                                                    |                       |                 |            |                    |                 |            |
| ✓ A-42377-0002 / 0036                                           |                 |                      |                    |                 |                                                                                    | ✓ A-42377-0037 / 0071 |                 |            |                    |                 |            |
| HEADER NUMBER:                                                  |                 |                      | 42312-0036         |                 |                                                                                    | HEADER NUMBER:        |                 |            | 42312-0036         |                 |            |
| PIN NUMBER:                                                     |                 |                      | 42663-AZA154       |                 |                                                                                    | PIN NUMBER:           |                 |            | 42663-BSA154       |                 |            |
| PIN LENGTH: L                                                   |                 |                      | .550/13.97         |                 |                                                                                    | PIN LENGTH: L         |                 |            | .630/16.00         |                 |            |
| MATING LENGTH: M                                                |                 |                      | .244/6.20          |                 |                                                                                    | MATING LENGTH: M      |                 |            | .324/8.23          |                 |            |
| GOLD POINT: G                                                   |                 |                      | N/A                |                 |                                                                                    | GOLD POINT: G         |                 |            | N/A                |                 |            |
| PI N HEIGHT: Y                                                  |                 |                      | .070/1.78          |                 |                                                                                    | PI N HEIGHT: Y        |                 |            | .070/1.78          |                 |            |
| PC TAIL LENGTH: P                                               |                 |                      | .120/3.05          |                 |                                                                                    | PC TAIL LENGTH: P     |                 |            | .120/3.05          |                 |            |
| TIN: T                                                          |                 |                      | OVERALL            |                 |                                                                                    | 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-40873-0041 |                 |            |
| CKTS                                                            | MATERIAL NUMBER | ENG NUMBER           | CKTS               | MATERIAL NUMBER | ENG NUMBER                                                                         | CKTS                  | MATERIAL NUMBER | ENG NUMBER | CKTS               | MATERIAL NUMBER | ENG NUMBER |
| 02                                                              | 22-28-8020      | 42377-0002           | 20                 | 22-28-8200      | 42377-0020                                                                         | 02                    | 22-28-8021      | 42377-0037 | 20                 | 22-28-8201      | 42377-0055 |
| 03                                                              | 22-28-8030      | 42377-0003           | 21                 | 22-28-8210      | 42377-0021                                                                         | 03                    | 22-28-8031      | 42377-0038 | 21                 | 22-28-8211      | 42377-0056 |
| 04                                                              | 22-28-8040      | 42377-0004           | 22                 | 22-28-8220      | 42377-0022                                                                         | 04                    | 22-28-8041      | 42377-0039 | 22                 | 22-28-8221      | 42377-0057 |
| 05                                                              | 22-28-8050      | 42377-0005           | 23                 | 22-28-8230      | 42377-0023                                                                         | 05                    | 22-28-8051      | 42377-0040 | 23                 | 22-28-8231      | 42377-0058 |
| 06                                                              | 22-28-8060      | 42377-0006           | 24                 | 22-28-8240      | 42377-0024                                                                         | 06                    | 22-28-8061      | 42377-0041 | 24                 | 22-28-8241      | 42377-0059 |
| 07                                                              | 22-28-8070      | 42377-0007           | 25                 | 22-28-8250      | 42377-0025                                                                         | 07                    | 22-28-8071      | 42377-0042 | 25                 | 22-28-8251      | 42377-0060 |
| 08                                                              | 22-28-8080      | 42377-0008           | 26                 | 22-28-8260      | 42377-0026                                                                         | 08                    | 22-28-8081      | 42377-0043 | 26                 | 22-28-8261      | 42377-0061 |
| 09                                                              | 22-28-8090      | 42377-0009           | 27                 | 22-28-8270      | 42377-0027                                                                         | 09                    | 22-28-8091      | 42377-0044 | 27                 | 22-28-8271      | 42377-0062 |
| 10                                                              | 22-28-8100      | 42377-0010           | 28                 | 22-28-8280      | 42377-0028                                                                         | 10                    | 22-28-8101      | 42377-0045 | 28                 | 22-28-8281      | 42377-0063 |
| 11                                                              | 22-28-8110      | 42377-0011           | 29                 | 22-28-8290      | 42377-0029                                                                         | 11                    | 22-28-8111      | 42377-0046 | 29                 | 22-28-8291      | 42377-0064 |
| 12                                                              | 22-28-8120      | 42377-0012           | 30                 | 22-28-8300      | 42377-0030                                                                         | 12                    | 22-28-8121      | 42377-0047 | 30                 | 22-28-8301      | 42377-0065 |
| 13                                                              | 22-28-8130      | 42377-0013           | 31                 | 22-28-8310      | 42377-0031                                                                         | 13                    | 22-28-8131      | 42377-0048 | 31                 | 22-28-8311      | 42377-0066 |
| 14                                                              | 22-28-8140      | 42377-0014           | 32                 | 22-28-8320      | 42377-0032                                                                         | 14                    | 22-28-8141      | 42377-0049 | 32                 | 22-28-8321      | 42377-0067 |
| 15                                                              | 22-28-8150      | 42377-0015           | 33                 | 22-28-8330      | 42377-0033                                                                         | 15                    | 22-28-8151      | 42377-0050 | 33                 | 22-28-8331      | 42377-0068 |
| 16                                                              | 22-28-8160      | 42377-0016           | 34                 | 22-28-8340      | 42377-0034                                                                         | 16                    | 22-28-8161      | 42377-0051 | 34                 | 22-28-8341      | 42377-0069 |
| 17                                                              | 22-28-8170      | 42377-0017           | 35                 | 22-28-8350      | 42377-0035                                                                         | 17                    | 22-28-8171      | 42377-0052 | 35                 | 22-28-8351      | 42377-0070 |
| 18                                                              | 22-28-8180      | 42377-0018           | 36                 | 22-28-8360      | 42377-0036                                                                         | 18                    | 22-28-8181      | 42377-0053 | 36                 | 22-28-8361      | 42377-0071 |
| 19                                                              | 22-28-8190      | 42377-0019           |                    |                 |                                                                                    | 19                    | 22-28-8191      | 42377-0054 |                    |                 |            |
|                                                                 |                 |                      |                    |                 |                                                                                    |                       |                 |            |                    |                 |            |
| REV:                                                            |                 | ECR/ECN INFORMATION: |                    |                 | TITLE:                                                                             |                       |                 |            |                    | SHEET No.       |            |
| <b>X1</b>                                                       |                 | EC No: UCP2009-0952  |                    |                 | <b>KK 100 HEADER ASSEMBLY<br/>         FLAT RIGHT ANGLE<br/>         BREAKAWAY</b> |                       |                 |            |                    | <b>- 2 -</b>    |            |
|                                                                 |                 | DATE: 10/31/2008     |                    |                 |                                                                                    |                       |                 |            |                    |                 |            |
| DOCUMENT NUMBER:                                                |                 |                      |                    |                 | CREATED / REVISED BY:                                                              |                       | CHECKED BY:     |            | APPROVED BY:       |                 |            |
| <b>SD- 42377-001</b>                                            |                 |                      |                    |                 | <b>MKIPPER</b>                                                                     |                       | <b>JBELL</b>    |            | <b>FSMITH</b>      |                 |            |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                      |                    |                 |                                                                                    |                       |                 |            |                    |                 |            |

|                                                  |                    |                             |                    |                    |               |                                                                  |                    |               |                    |                    |                     |  |
|--------------------------------------------------|--------------------|-----------------------------|--------------------|--------------------|---------------|------------------------------------------------------------------|--------------------|---------------|--------------------|--------------------|---------------------|--|
|                                                  |                    |                             |                    |                    |               |                                                                  |                    |               |                    |                    |                     |  |
| ✓ A-42377-0072 / 0106                            |                    |                             |                    |                    |               | ✓ A-42377-0107 / 0141                                            |                    |               |                    |                    |                     |  |
| HEADER NUMBER:                                   |                    |                             | 42312-0036         |                    |               | HEADER NUMBER:                                                   |                    |               | 42312-0036         |                    |                     |  |
| PIN NUMBER:                                      |                    |                             | 42663-AZB208       |                    |               | PIN NUMBER:                                                      |                    |               | 42663-BSB208       |                    |                     |  |
| PIN LENGTH: L                                    |                    |                             | .550/13.97         |                    |               | PIN LENGTH: L                                                    |                    |               | .630/16.00         |                    |                     |  |
| MATING LENGTH: M                                 |                    |                             | .244/6.20          |                    |               | MATING LENGTH: M                                                 |                    |               | .324/8.23          |                    |                     |  |
| GOLD POINT: G                                    |                    |                             | .140/3.56          |                    |               | GOLD POINT: G                                                    |                    |               | .140/3.56          |                    |                     |  |
| PIN HEIGHT: Y                                    |                    |                             | .070/1.78          |                    |               | PIN HEIGHT: Y                                                    |                    |               | .070/1.78          |                    |                     |  |
| PC TAIL LENGTH: P                                |                    |                             | .120/13.05         |                    |               | 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-40873-0041 |                    |               | PACKAGING:                                                       |                    |               | BULK PK-40873-0041 |                    |                     |  |
| CKTS                                             | MATERIAL<br>NUMBER | ENG<br>NUMBER               | CKTS               | MATERIAL<br>NUMBER | ENG<br>NUMBER | CKTS                                                             | MATERIAL<br>NUMBER | ENG<br>NUMBER | CKTS               | MATERIAL<br>NUMBER | ENG<br>NUMBER       |  |
| 02                                               | 22-28-8022         | 42377-0072                  | 20                 | 22-28-8202         | 42377-0090    | 02                                                               | 22-28-8023         | 42377-0107    | 20                 | 22-28-8203         | 42377-0125          |  |
| 03                                               | 22-28-8032         | 42377-0073                  | 21                 | 22-28-8212         | 42377-0091    | 03                                                               | 22-28-8033         | 42377-0108    | 21                 | 22-28-8213         | 42377-0126          |  |
| 04                                               | 22-28-8042         | 42377-0074                  | 22                 | 22-28-8222         | 42377-0092    | 04                                                               | 22-28-8043         | 42377-0109    | 22                 | 22-28-8223         | 42377-0127          |  |
| 05                                               | 22-28-8052         | 42377-0075                  | 23                 | 22-28-8232         | 42377-0093    | 05                                                               | 22-28-8053         | 42377-0110    | 23                 | 22-28-8233         | 42377-0128          |  |
| 06                                               | 22-28-8062         | 42377-0076                  | 24                 | 22-28-8242         | 42377-0094    | 06                                                               | 22-28-8063         | 42377-0111    | 24                 | 22-28-8243         | 42377-0129          |  |
| 07                                               | 22-28-8072         | 42377-0077                  | 25                 | 22-28-8252         | 42377-0095    | 07                                                               | 22-28-8073         | 42377-0112    | 25                 | 22-28-8253         | 42377-0130          |  |
| 08                                               | 22-28-8082         | 42377-0078                  | 26                 | 22-28-8262         | 42377-0096    | 08                                                               | 22-28-8083         | 42377-0113    | 26                 | 22-28-8263         | 42377-0131          |  |
| 09                                               | 22-28-8092         | 42377-0079                  | 27                 | 22-28-8272         | 42377-0097    | 09                                                               | 22-28-8093         | 42377-0114    | 27                 | 22-28-8273         | 42377-0132          |  |
| 10                                               | 22-28-8102         | 42377-0080                  | 28                 | 22-28-8282         | 42377-0098    | 10                                                               | 22-28-8103         | 42377-0115    | 28                 | 22-28-8283         | 42377-0133          |  |
| 11                                               | 22-28-8112         | 42377-0081                  | 29                 | 22-28-8292         | 42377-0099    | 11                                                               | 22-28-8113         | 42377-0116    | 29                 | 22-28-8293         | 42377-0134          |  |
| 12                                               | 22-28-8122         | 42377-0082                  | 30                 | 22-28-8302         | 42377-0100    | 12                                                               | 22-28-8123         | 42377-0117    | 30                 | 22-28-8303         | 42377-0135          |  |
| 13                                               | 22-28-8132         | 42377-0083                  | 31                 | 22-28-8312         | 42377-0101    | 13                                                               | 22-28-8133         | 42377-0118    | 31                 | 22-28-8313         | 42377-0136          |  |
| 14                                               | 22-28-8142         | 42377-0084                  | 32                 | 22-28-8322         | 42377-0102    | 14                                                               | 22-28-8143         | 42377-0119    | 32                 | 22-28-8323         | 42377-0137          |  |
| 15                                               | 22-28-8152         | 42377-0085                  | 33                 | 22-28-8332         | 42377-0103    | 15                                                               | 22-28-8153         | 42377-0120    | 33                 | 22-28-8333         | 42377-0138          |  |
| 16                                               | 22-28-8162         | 42377-0086                  | 34                 | 22-28-8342         | 42377-0104    | 16                                                               | 22-28-8163         | 42377-0121    | 34                 | 22-28-8343         | 42377-0139          |  |
| 17                                               | 22-28-8172         | 42377-0087                  | 35                 | 22-28-8352         | 42377-0105    | 17                                                               | 22-28-8173         | 42377-0122    | 35                 | 22-28-8353         | 42377-0140          |  |
| 18                                               | 22-28-8182         | 42377-0088                  | 36                 | 22-28-8362         | 42377-0106    | 18                                                               | 22-28-8183         | 42377-0123    | 36                 | 22-28-8363         | 42377-0141          |  |
| 19                                               | 22-28-8192         | 42377-0089                  |                    |                    |               | 19                                                               | 22-28-8193         | 42377-0124    |                    |                    |                     |  |
|                                                  |                    |                             |                    |                    |               |                                                                  |                    |               |                    |                    |                     |  |
| REV:                                             |                    | <u>ECR/ECN INFORMATION:</u> |                    |                    |               | <u>TITLE:</u>                                                    |                    |               |                    |                    | <u>SHEET No.</u>    |  |
| <b>X1</b>                                        |                    | EC No: <b>UCP2009-0952</b>  |                    |                    |               | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |                    |               |                    |                    | <b>- 3 -</b>        |  |
|                                                  |                    | DATE: <b>10/31/2008</b>     |                    |                    |               |                                                                  |                    |               |                    |                    |                     |  |
| <u>DOCUMENT NUMBER:</u>                          |                    |                             |                    |                    |               | <u>CREATED / REVISED BY:</u>                                     |                    |               | <u>CHECKED BY:</u> |                    | <u>APPROVED BY:</u> |  |
| <b>SD- 42377-001</b>                             |                    |                             |                    |                    |               | <b>MKIPPER</b>                                                   |                    |               | <b>JBELL</b>       |                    | <b>FSMITH</b>       |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                    |                             |                    |                    |               |                                                                  |                    |               |                    |                    |                     |  |

|                                                  |                 |            |                       |                 |            |                                                                                        |                 |            |                    |                 |            |
|--------------------------------------------------|-----------------|------------|-----------------------|-----------------|------------|----------------------------------------------------------------------------------------|-----------------|------------|--------------------|-----------------|------------|
| ✓ A-42377-0142 / 0176                            |                 |            |                       |                 |            | ✓ A-42377-0177 / 0211                                                                  |                 |            |                    |                 |            |
| HEADER NUMBER:                                   |                 |            | 42312-0036            |                 |            | HEADER NUMBER:                                                                         |                 |            | 42312-0036         |                 |            |
| PIN NUMBER:                                      |                 |            | 42663-BCA154          |                 |            | PIN NUMBER:                                                                            |                 |            | 42663-BXA154       |                 |            |
| PIN LENGTH: L                                    |                 |            | .565/14.35            |                 |            | PIN LENGTH: L                                                                          |                 |            | .645/16.38         |                 |            |
| MATING LENGTH: M                                 |                 |            | .244/6.20             |                 |            | MATING LENGTH: M                                                                       |                 |            | .324/8.23          |                 |            |
| GOLD POINT: G                                    |                 |            | N/A                   |                 |            | GOLD POINT: G                                                                          |                 |            | N/A                |                 |            |
| PIN HEIGHT: Y                                    |                 |            | .070/1.78             |                 |            | PIN HEIGHT: Y                                                                          |                 |            | .070/1.78          |                 |            |
| PC TAIL LENGTH: P                                |                 |            | .135/3.43             |                 |            | PC TAIL LENGTH: P                                                                      |                 |            | .135/3.43          |                 |            |
| TIN: T                                           |                 |            | OVERALL               |                 |            | 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-40873-0041 |                 |            |
| CKTS                                             | MATERIAL NUMBER | ENG NUMBER | CKTS                  | MATERIAL NUMBER | ENG NUMBER | CKTS                                                                                   | MATERIAL NUMBER | ENG NUMBER | CKTS               | MATERIAL NUMBER | ENG NUMBER |
| 02                                               | 22-28-9020      | 42377-0142 | 20                    | 22-28-9200      | 42377-0160 | 02                                                                                     | 22-28-9021      | 42377-0177 | 20                 | 22-28-9201      | 42377-0195 |
| 03                                               | 22-28-9030      | 42377-0143 | 21                    | 22-28-9210      | 42377-0161 | 03                                                                                     | 22-28-9031      | 42377-0178 | 21                 | 22-28-9211      | 42377-0196 |
| 04                                               | 22-28-9040      | 42377-0144 | 22                    | 22-28-9220      | 42377-0162 | 04                                                                                     | 22-28-9041      | 42377-0179 | 22                 | 22-28-9221      | 42377-0197 |
| 05                                               | 22-28-9050      | 42377-0145 | 23                    | 22-28-9230      | 42377-0163 | 05                                                                                     | 22-28-9051      | 42377-0180 | 23                 | 22-28-9231      | 42377-0198 |
| 06                                               | 22-28-9060      | 42377-0146 | 24                    | 22-28-9240      | 42377-0164 | 06                                                                                     | 22-28-9061      | 42377-0181 | 24                 | 22-28-9241      | 42377-0199 |
| 07                                               | 22-28-9070      | 42377-0147 | 25                    | 22-28-9250      | 42377-0165 | 07                                                                                     | 22-28-9071      | 42377-0182 | 25                 | 22-28-9251      | 42377-0200 |
| 08                                               | 22-28-9080      | 42377-0148 | 26                    | 22-28-9260      | 42377-0166 | 08                                                                                     | 22-28-9081      | 42377-0183 | 26                 | 22-28-9261      | 42377-0201 |
| 09                                               | 22-28-9090      | 42377-0149 | 27                    | 22-28-9270      | 42377-0167 | 09                                                                                     | 22-28-9091      | 42377-0184 | 27                 | 22-28-9271      | 42377-0202 |
| 10                                               | 22-28-9100      | 42377-0150 | 28                    | 22-28-9280      | 42377-0168 | 10                                                                                     | 22-28-9101      | 42377-0185 | 28                 | 22-28-9281      | 42377-0203 |
| 11                                               | 22-28-9110      | 42377-0151 | 29                    | 22-28-9290      | 42377-0169 | 11                                                                                     | 22-28-9111      | 42377-0186 | 29                 | 22-28-9291      | 42377-0204 |
| 12                                               | 22-28-9120      | 42377-0152 | 30                    | 22-28-9300      | 42377-0170 | 12                                                                                     | 22-28-9121      | 42377-0187 | 30                 | 22-28-9301      | 42377-0205 |
| 13                                               | 22-28-9130      | 42377-0153 | 31                    | 22-28-9310      | 42377-0171 | 13                                                                                     | 22-28-9131      | 42377-0188 | 31                 | 22-28-9311      | 42377-0206 |
| 14                                               | 22-28-9140      | 42377-0154 | 32                    | 22-28-9320      | 42377-0172 | 14                                                                                     | 22-28-9141      | 42377-0189 | 32                 | 22-28-9321      | 42377-0207 |
| 15                                               | 22-28-9150      | 42377-0155 | 33                    | 22-28-9330      | 42377-0173 | 15                                                                                     | 22-28-9151      | 42377-0190 | 33                 | 22-28-9331      | 42377-0208 |
| 16                                               | 22-28-9160      | 42377-0156 | 34                    | 22-28-9340      | 42377-0174 | 16                                                                                     | 22-28-9161      | 42377-0191 | 34                 | 22-28-9341      | 42377-0209 |
| 17                                               | 22-28-9170      | 42377-0157 | 35                    | 22-28-9350      | 42377-0175 | 17                                                                                     | 22-28-9171      | 42377-0192 | 35                 | 22-28-9351      | 42377-0210 |
| 18                                               | 22-28-9180      | 42377-0158 | 36                    | 22-28-9360      | 42377-0176 | 18                                                                                     | 22-28-9181      | 42377-0193 | 36                 | 22-28-9361      | 42377-0211 |
| 19                                               | 22-28-9190      | 42377-0159 |                       |                 |            | 19                                                                                     | 22-28-9191      | 42377-0194 |                    |                 |            |
| REV:                                             |                 |            | ECR/ECN INFORMATION:  |                 |            | TITLE:                                                                                 |                 |            | SHEET No.          |                 |            |
| <b>X1</b>                                        |                 |            | EC No: UCP2009-0952   |                 |            | <b>KK 100 HEADER ASSEMBLY<br/>           FLAT RIGHT ANGLE<br/>           BREAKAWAY</b> |                 |            | <b>- 4 -</b>       |                 |            |
|                                                  |                 |            | DATE: 10/31/2008      |                 |            |                                                                                        |                 |            |                    |                 |            |
| DOCUMENT NUMBER:                                 |                 |            | CREATED / REVISED BY: |                 |            | CHECKED BY:                                                                            |                 |            | APPROVED BY:       |                 |            |
| <b>SD- 42377-001</b>                             |                 |            | <b>MKIPPER</b>        |                 |            | <b>JBELL</b>                                                                           |                 |            | <b>FSMITH</b>      |                 |            |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |            |                       |                 |            |                                                                                        |                 |            |                    |                 |            |

|                     |                 |                    |      |                 |            |                     |                 |                    |      |                 |            |
|---------------------|-----------------|--------------------|------|-----------------|------------|---------------------|-----------------|--------------------|------|-----------------|------------|
|                     |                 |                    |      |                 |            |                     |                 |                    |      |                 |            |
| ✓ A-42377-0212/0246 |                 |                    |      |                 |            | ✓ A-42377-0247-0281 |                 |                    |      |                 |            |
| HEADER NUMBER:      |                 | 42312-0036         |      |                 |            | HEADER NUMBER:      |                 | 42312-0036         |      |                 |            |
| PIN NUMBER:         |                 | 42663-BCB208       |      |                 |            | PIN NUMBER:         |                 | 42663-BXB208       |      |                 |            |
| PIN LENGTH: L       |                 | .565/14.35         |      |                 |            | PIN LENGTH: L       |                 | .645/16.38         |      |                 |            |
| MATING LENGTH: M    |                 | .244/6.20          |      |                 |            | MATING LENGTH: M    |                 | .324/8.23          |      |                 |            |
| GOLD POINT: G       |                 | .100/2.54          |      |                 |            | GOLD POINT: G       |                 | .140/3.56          |      |                 |            |
| PIN HEIGHT: Y       |                 | .070/1.78          |      |                 |            | PIN HEIGHT: Y       |                 | .070/1.78          |      |                 |            |
| 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-40873-0041 |      |                 |            | 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                  | 22-28-9022      | 42377-0212         | 20   | 22-28-9202      | 42377-0230 | 02                  | 22-28-9023      | 42377-0247         | 20   | 22-28-9203      | 42377-0265 |
| 03                  | 22-28-9032      | 42377-0213         | 21   | 22-28-9212      | 42377-0231 | 03                  | 22-28-9033      | 42377-0248         | 21   | 22-28-9213      | 42377-0266 |
| 04                  | 22-28-9042      | 42377-0214         | 22   | 22-28-9222      | 42377-0232 | 04                  | 22-28-9043      | 42377-0249         | 22   | 22-28-9223      | 42377-0267 |
| 05                  | 22-28-9052      | 42377-0215         | 23   | 22-28-9232      | 42377-0233 | 05                  | 22-28-9053      | 42377-0250         | 23   | 22-28-9233      | 42377-0268 |
| 06                  | 22-28-9062      | 42377-0216         | 24   | 22-28-9242      | 42377-0234 | 06                  | 22-28-9063      | 42377-0251         | 24   | 22-28-9243      | 42377-0269 |
| 07                  | 22-28-9072      | 42377-0217         | 25   | 22-28-9252      | 42377-0235 | 07                  | 22-28-9073      | 42377-0252         | 25   | 22-28-9253      | 42377-0270 |
| 08                  | 22-28-9082      | 42377-0218         | 26   | 22-28-9262      | 42377-0236 | 08                  | 22-28-9083      | 42377-0253         | 26   | 22-28-9263      | 42377-0271 |
| 09                  | 22-28-9092      | 42377-0219         | 27   | 22-28-9272      | 42377-0237 | 09                  | 22-28-9093      | 42377-0254         | 27   | 22-28-9273      | 42377-0272 |
| 10                  | 22-28-9102      | 42377-0220         | 28   | 22-28-9282      | 42377-0238 | 10                  | 22-28-9103      | 42377-0255         | 28   | 22-28-9283      | 42377-0273 |
| 11                  | 22-28-9112      | 42377-0221         | 29   | 22-28-9292      | 42377-0239 | 11                  | 22-28-9113      | 42377-0256         | 29   | 22-28-9293      | 42377-0274 |
| 12                  | 22-28-9122      | 42377-0222         | 30   | 22-28-9302      | 42377-0240 | 12                  | 22-28-9123      | 42377-0257         | 30   | 22-28-9303      | 42377-0275 |
| 13                  | 22-28-9132      | 42377-0223         | 31   | 22-28-9312      | 42377-0241 | 13                  | 22-28-9133      | 42377-0258         | 31   | 22-28-9313      | 42377-0276 |
| 14                  | 22-28-9142      | 42377-0224         | 32   | 22-28-9322      | 42377-0242 | 14                  | 22-28-9143      | 42377-0259         | 32   | 22-28-9323      | 42377-0277 |
| 15                  | 22-28-9152      | 42377-0225         | 33   | 22-28-9332      | 42377-0243 | 15                  | 22-28-9153      | 42377-0260         | 33   | 22-28-9333      | 42377-0278 |
| 16                  | 22-28-9162      | 42377-0226         | 34   | 22-28-9342      | 42377-0244 | 16                  | 22-28-9163      | 42377-0261         | 34   | 22-28-9343      | 42377-0279 |
| 17                  | 22-28-9172      | 42377-0227         | 35   | 22-28-9352      | 42377-0245 | 17                  | 22-28-9173      | 42377-0262         | 35   | 22-28-9353      | 42377-0280 |
| 18                  | 22-28-9182      | 42377-0228         | 36   | 22-28-9362      | 42377-0246 | 18                  | 22-28-9183      | 42377-0263         | 36   | 22-28-9363      | 42377-0281 |
| 19                  | 22-28-9192      | 42377-0229         |      |                 |            | 19                  | 22-28-9193      | 42377-0264         |      |                 |            |

|                      |                            |                                                                  |               |
|----------------------|----------------------------|------------------------------------------------------------------|---------------|
| REV:                 | ECR/ECN INFORMATION:       | TITLE:                                                           | SHEET No.     |
| <b>X1</b>            | EC No: <b>UCP2009-0952</b> | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> | <b>- 5 -</b>  |
|                      | DATE: <b>10/31/2008</b>    |                                                                  |               |
| DOCUMENT NUMBER:     | CREATED / REVISED BY:      | CHECKED BY:                                                      | APPROVED BY:  |
| <b>SD- 42377-001</b> | <b>MKIPPER</b>             | <b>JBELL</b>                                                     | <b>FSMITH</b> |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC

|                       |                 |                    |      |                 |            |                       |                 |                    |      |                 |            |
|-----------------------|-----------------|--------------------|------|-----------------|------------|-----------------------|-----------------|--------------------|------|-----------------|------------|
|                       |                 |                    |      |                 |            |                       |                 |                    |      |                 |            |
| ✓ A-42377-0282 / 0316 |                 |                    |      |                 |            | ✓ A-42377-0317 / 0351 |                 |                    |      |                 |            |
| HEADER NUMBER:        |                 | 42312-0036         |      |                 |            | HEADER NUMBER:        |                 | 42312-0036         |      |                 |            |
| PIN NUMBER:           |                 | 42663-AZB228       |      |                 |            | PIN NUMBER:           |                 | 42663-BSB228       |      |                 |            |
| PIN LENGTH: L         |                 | .550/13.97         |      |                 |            | PIN LENGTH: L         |                 | .630/16.00         |      |                 |            |
| MATING LENGTH: M      |                 | .244/6.20          |      |                 |            | MATING LENGTH: M      |                 | .324/8.23          |      |                 |            |
| GOLD POINT: G         |                 | .140/3.56          |      |                 |            | GOLD POINT: G         |                 | .140/3.56          |      |                 |            |
| PIN HEIGHT: Y         |                 | .070/1.78          |      |                 |            | PIN HEIGHT: Y         |                 | .070/1.78          |      |                 |            |
| 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-40873-0041 |      |                 |            | 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                    | 22-28-8024      | 42377-0282         | 20   | 22-28-8204      | 42377-0300 | 02                    | 22-28-8025      | 42377-0317         | 20   | 22-28-8205      | 42377-0335 |
| 03                    | 22-28-8034      | 42377-0283         | 21   | 22-28-8214      | 42377-0301 | 03                    | 22-28-8035      | 42377-0318         | 21   | 22-28-8215      | 42377-0336 |
| 04                    | 22-28-8044      | 42377-0284         | 22   | 22-28-8224      | 42377-0302 | 04                    | 22-28-8045      | 42377-0319         | 22   | 22-28-8225      | 42377-0337 |
| 05                    | 22-28-8054      | 42377-0285         | 23   | 22-28-8234      | 42377-0303 | 05                    | 22-28-8055      | 42377-0320         | 23   | 22-28-8235      | 42377-0338 |
| 06                    | 22-28-8064      | 42377-0286         | 24   | 22-28-8244      | 42377-0304 | 06                    | 22-28-8065      | 42377-0321         | 24   | 22-28-8245      | 42377-0339 |
| 07                    | 22-28-8074      | 42377-0287         | 25   | 22-28-8254      | 42377-0305 | 07                    | 22-28-8075      | 42377-0322         | 25   | 22-28-8255      | 42377-0340 |
| 08                    | 22-28-8084      | 42377-0288         | 26   | 22-28-8264      | 42377-0306 | 08                    | 22-28-8085      | 42377-0323         | 26   | 22-28-8265      | 42377-0341 |
| 09                    | 22-28-8094      | 42377-0289         | 27   | 22-28-8274      | 42377-0307 | 09                    | 22-28-8095      | 42377-0324         | 27   | 22-28-8275      | 42377-0342 |
| 10                    | 22-28-8104      | 42377-0290         | 28   | 22-28-8284      | 42377-0308 | 10                    | 22-28-8105      | 42377-0325         | 28   | 22-28-8285      | 42377-0343 |
| 11                    | 22-28-8114      | 42377-0291         | 29   | 22-28-8294      | 42377-0309 | 11                    | 22-28-8115      | 42377-0326         | 29   | 22-28-8295      | 42377-0344 |
| 12                    | 22-28-8124      | 42377-0292         | 30   | 22-28-8304      | 42377-0310 | 12                    | 22-28-8125      | 42377-0327         | 30   | 22-28-8305      | 42377-0345 |
| 13                    | 22-28-8134      | 42377-0293         | 31   | 22-28-8314      | 42377-0311 | 13                    | 22-28-8135      | 42377-0328         | 31   | 22-28-8315      | 42377-0346 |
| 14                    | 22-28-8144      | 42377-0294         | 32   | 22-28-8324      | 42377-0312 | 14                    | 22-28-8145      | 42377-0329         | 32   | 22-28-8325      | 42377-0347 |
| 15                    | 22-28-8154      | 42377-0295         | 33   | 22-28-8334      | 42377-0313 | 15                    | 22-28-8155      | 42377-0330         | 33   | 22-28-8335      | 42377-0348 |
| 16                    | 22-28-8164      | 42377-0296         | 34   | 22-28-8344      | 42377-0314 | 16                    | 22-28-8165      | 42377-0331         | 34   | 22-28-8345      | 42377-0349 |
| 17                    | 22-28-8174      | 42377-0297         | 35   | 22-28-8354      | 42377-0315 | 17                    | 22-28-8175      | 42377-0332         | 35   | 22-28-8355      | 42377-0350 |
| 18                    | 22-28-8184      | 42377-0298         | 36   | 22-28-8364      | 42377-0316 | 18                    | 22-28-8185      | 42377-0333         | 36   | 22-28-8365      | 42377-0351 |
| 19                    | 22-28-8194      | 42377-0299         |      |                 |            | 19                    | 22-28-8195      | 42377-0334         |      |                 |            |

|                      |                            |                                                                  |              |
|----------------------|----------------------------|------------------------------------------------------------------|--------------|
| REV:                 | ECR/ECN INFORMATION:       | TITLE:                                                           | SHEET No.    |
| <b>X1</b>            | EC No: <b>UCP2009-0952</b> | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> | <b>- 6 -</b> |
|                      | DATE: <b>10/31/2008</b>    |                                                                  |              |
| DOCUMENT NUMBER:     |                            | CREATED / REVISED BY:                                            | CHECKED BY:  |
| <b>SD- 42377-001</b> |                            | <b>MKIPPER</b>                                                   | <b>JBELL</b> |
|                      |                            | APPROVED BY:                                                     |              |
|                      |                            | <b>FSMITH</b>                                                    |              |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC



|                     |                 |                    |      |                 |            |  |  |  |  |  |  |
|---------------------|-----------------|--------------------|------|-----------------|------------|--|--|--|--|--|--|
|                     |                 |                    |      |                 |            |  |  |  |  |  |  |
| ✓ A-42377-0352/0386 |                 |                    |      |                 |            |  |  |  |  |  |  |
| HEADER NUMBER:      |                 | 42312-0036         |      |                 |            |  |  |  |  |  |  |
| PIN NUMBER:         |                 | 42663-BCB228       |      |                 |            |  |  |  |  |  |  |
| PIN LENGTH: L       |                 | .565/14.35         |      |                 |            |  |  |  |  |  |  |
| MATING LENGTH: M    |                 | .244/6.20          |      |                 |            |  |  |  |  |  |  |
| GOLD POINT: G       |                 | .100/2.54          |      |                 |            |  |  |  |  |  |  |
| PIN HEIGHT: Y       |                 | .070/1.78          |      |                 |            |  |  |  |  |  |  |
| PC TAIL LENGTH: P   |                 | .135/3.43          |      |                 |            |  |  |  |  |  |  |
| TIN: T              |                 | .135/3.43          |      |                 |            |  |  |  |  |  |  |
| CKTS:               |                 | 2-36               |      |                 |            |  |  |  |  |  |  |
| KINKS:              |                 | PER SMES-42003     |      |                 |            |  |  |  |  |  |  |
| REMOVED BACKWALLS:  |                 | NONE               |      |                 |            |  |  |  |  |  |  |
| VOIDED CKTS:        |                 | NONE               |      |                 |            |  |  |  |  |  |  |
| PACKAGING:          |                 | BULK PK-40873-0041 |      |                 |            |  |  |  |  |  |  |
| CKTS                | MATERIAL NUMBER | ENG NUMBER         | CKTS | MATERIAL NUMBER | ENG NUMBER |  |  |  |  |  |  |
| 02                  | 22-28-9024      | 42377-0352         | 20   | 22-28-9204      | 42377-0370 |  |  |  |  |  |  |
| 03                  | 22-28-9034      | 42377-0353         | 21   | 22-28-9214      | 42377-0371 |  |  |  |  |  |  |
| 04                  | 22-28-9044      | 42377-0354         | 22   | 22-28-9224      | 42377-0372 |  |  |  |  |  |  |
| 05                  | 22-28-9054      | 42377-0355         | 23   | 22-28-9234      | 42377-0373 |  |  |  |  |  |  |
| 06                  | 22-28-9064      | 42377-0356         | 24   | 22-28-9244      | 42377-0374 |  |  |  |  |  |  |
| 07                  | 22-28-9074      | 42377-0357         | 25   | 22-28-9254      | 42377-0375 |  |  |  |  |  |  |
| 08                  | 22-28-9084      | 42377-0358         | 26   | 22-28-9264      | 42377-0376 |  |  |  |  |  |  |
| 09                  | 22-28-9094      | 42377-0359         | 27   | 22-28-9274      | 42377-0377 |  |  |  |  |  |  |
| 10                  | 22-28-9104      | 42377-0360         | 28   | 22-28-9284      | 42377-0378 |  |  |  |  |  |  |
| 11                  | 22-28-9114      | 42377-0361         | 29   | 22-28-9294      | 42377-0379 |  |  |  |  |  |  |
| 12                  | 22-28-9124      | 42377-0362         | 30   | 22-28-9304      | 42377-0380 |  |  |  |  |  |  |
| 13                  | 22-28-9134      | 42377-0363         | 31   | 22-28-9314      | 42377-0381 |  |  |  |  |  |  |
| 14                  | 22-28-9144      | 42377-0364         | 32   | 22-28-9324      | 42377-0382 |  |  |  |  |  |  |
| 15                  | 22-28-9154      | 42377-0365         | 33   | 22-28-9334      | 42377-0383 |  |  |  |  |  |  |
| 16                  | 22-28-9164      | 42377-0366         | 34   | 22-28-9344      | 42377-0384 |  |  |  |  |  |  |
| 17                  | 22-28-9174      | 42377-0367         | 35   | 22-28-9354      | 42377-0385 |  |  |  |  |  |  |
| 18                  | 22-28-9184      | 42377-0368         | 36   | 22-28-9364      | 42377-0386 |  |  |  |  |  |  |
| 19                  | 22-28-9194      | 42377-0369         |      |                 |            |  |  |  |  |  |  |

|                     |                 |                    |      |                 |            |  |  |  |  |  |  |
|---------------------|-----------------|--------------------|------|-----------------|------------|--|--|--|--|--|--|
| ✓ A-42377-0387/0421 |                 |                    |      |                 |            |  |  |  |  |  |  |
| HEADER NUMBER:      |                 | 42312-0036         |      |                 |            |  |  |  |  |  |  |
| PIN NUMBER:         |                 | 42663-BXB228       |      |                 |            |  |  |  |  |  |  |
| PIN LENGTH: L       |                 | .630/16.00         |      |                 |            |  |  |  |  |  |  |
| MATING LENGTH: M    |                 | .324/8.23          |      |                 |            |  |  |  |  |  |  |
| GOLD POINT: G       |                 | .140/3.56          |      |                 |            |  |  |  |  |  |  |
| PIN HEIGHT: Y       |                 | .070/1.78          |      |                 |            |  |  |  |  |  |  |
| PC TAIL LENGTH: P   |                 | .135/3.43          |      |                 |            |  |  |  |  |  |  |
| TIN: T              |                 | .135/3.43          |      |                 |            |  |  |  |  |  |  |
| CKTS:               |                 | 2-36               |      |                 |            |  |  |  |  |  |  |
| KINKS:              |                 | PER SMES-42003     |      |                 |            |  |  |  |  |  |  |
| REMOVED BACKWALLS:  |                 | NONE               |      |                 |            |  |  |  |  |  |  |
| VOIDED CKTS:        |                 | NONE               |      |                 |            |  |  |  |  |  |  |
| PACKAGING:          |                 | BULK PK-40873-0041 |      |                 |            |  |  |  |  |  |  |
| CKTS                | MATERIAL NUMBER | ENG NUMBER         | CKTS | MATERIAL NUMBER | ENG NUMBER |  |  |  |  |  |  |
| 02                  | 22-28-9025      | 42377-0387         | 20   | 22-28-9205      | 42377-0405 |  |  |  |  |  |  |
| 03                  | 22-28-9035      | 42377-0388         | 21   | 22-28-9215      | 42377-0406 |  |  |  |  |  |  |
| 04                  | 22-28-9045      | 42377-0389         | 22   | 22-28-9225      | 42377-0407 |  |  |  |  |  |  |
| 05                  | 22-28-9055      | 42377-0390         | 23   | 22-28-9235      | 42377-0408 |  |  |  |  |  |  |
| 06                  | 22-28-9065      | 42377-0391         | 24   | 22-28-9245      | 42377-0409 |  |  |  |  |  |  |
| 07                  | 22-28-9075      | 42377-0392         | 25   | 22-28-9255      | 42377-0410 |  |  |  |  |  |  |
| 08                  | 22-28-9085      | 42377-0393         | 26   | 22-28-9265      | 42377-0411 |  |  |  |  |  |  |
| 09                  | 22-28-9095      | 42377-0394         | 27   | 22-28-9275      | 42377-0412 |  |  |  |  |  |  |
| 10                  | 22-28-9105      | 42377-0395         | 28   | 22-28-9285      | 42377-0413 |  |  |  |  |  |  |
| 11                  | 22-28-9115      | 42377-0396         | 29   | 22-28-9295      | 42377-0414 |  |  |  |  |  |  |
| 12                  | 22-28-9125      | 42377-0397         | 30   | 22-28-9305      | 42377-0415 |  |  |  |  |  |  |
| 13                  | 22-28-9135      | 42377-0398         | 31   | 22-28-9315      | 42377-0416 |  |  |  |  |  |  |
| 14                  | 22-28-9145      | 42377-0399         | 32   | 22-28-9325      | 42377-0417 |  |  |  |  |  |  |
| 15                  | 22-28-9155      | 42377-0400         | 33   | 22-28-9335      | 42377-0418 |  |  |  |  |  |  |
| 16                  | 22-28-9165      | 42377-0401         | 34   | 22-28-9345      | 42377-0419 |  |  |  |  |  |  |
| 17                  | 22-28-9175      | 42377-0402         | 35   | 22-28-9355      | 42377-0420 |  |  |  |  |  |  |
| 18                  | 22-28-9185      | 42377-0403         | 36   | 22-28-9365      | 42377-0421 |  |  |  |  |  |  |
| 19                  | 22-28-9195      | 42377-0404         |      |                 |            |  |  |  |  |  |  |

|                         |                                   |                                                                  |                    |
|-------------------------|-----------------------------------|------------------------------------------------------------------|--------------------|
| REV:                    | <u>ECR/ECN INFORMATION:</u>       | <u>TITLE:</u>                                                    | <u>SHEET No.</u>   |
| <b>X1</b>               | <u>EC No:</u> <b>UCP2009-0952</b> | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> | <b>- 7 -</b>       |
|                         | <u>DATE:</u> <b>10/31/2008</b>    |                                                                  |                    |
| <u>DOCUMENT NUMBER:</u> |                                   | <u>CREATED / REVISED BY:</u>                                     | <u>CHECKED BY:</u> |
| <b>SD- 42377-001</b>    |                                   | <b>MKIPPER</b>                                                   | <b>JBELL</b>       |
|                         |                                   | <u>APPROVED BY:</u>                                              |                    |
|                         |                                   | <b>FSMITH</b>                                                    |                    |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC

|                                                                 |                                                                                                    |                    |                                                                                     |                    |                                    |                                      |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|--------------------|------------------------------------|--------------------------------------|
|                                                                 |                                                                                                    |                    |                                                                                     |                    |                                    |                                      |
| ✓ A-42377-0504                                                  |                                                                                                    |                    |                                                                                     |                    |                                    |                                      |
| HEADER NUMBER:                                                  |                                                                                                    | 42312-0036         |                                                                                     |                    |                                    |                                      |
| PIN NUMBER:                                                     |                                                                                                    | 42663-ABA154       |                                                                                     |                    |                                    |                                      |
| PIN LENGTH: L                                                   |                                                                                                    | .455/11.56         |                                                                                     |                    |                                    |                                      |
| MATING LENGTH: M                                                |                                                                                                    | .149/3.78          |                                                                                     |                    |                                    |                                      |
| GOLD POINT: G                                                   |                                                                                                    | N/A                |                                                                                     |                    |                                    |                                      |
| PIN HEIGHT: Y                                                   |                                                                                                    | .070/1.78          |                                                                                     |                    |                                    |                                      |
| 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<br>NUMBER                                                                                 | ENG<br>NUMBER      | CKTS                                                                                | MATERIAL<br>NUMBER | ENG<br>NUMBER                      |                                      |
| 02                                                              |                                                                                                    |                    | 20                                                                                  |                    |                                    |                                      |
| 03                                                              |                                                                                                    |                    | 21                                                                                  |                    |                                    |                                      |
| 04                                                              |                                                                                                    |                    | 22                                                                                  |                    |                                    |                                      |
| 05                                                              |                                                                                                    |                    | 23                                                                                  |                    |                                    |                                      |
| 06                                                              |                                                                                                    |                    | 24                                                                                  |                    |                                    |                                      |
| 07                                                              |                                                                                                    |                    | 25                                                                                  |                    |                                    |                                      |
| 08                                                              |                                                                                                    |                    | 26                                                                                  |                    |                                    |                                      |
| 09                                                              |                                                                                                    |                    | 27                                                                                  |                    |                                    |                                      |
| 10                                                              |                                                                                                    |                    | 28                                                                                  |                    |                                    |                                      |
| 11                                                              |                                                                                                    |                    | 29                                                                                  |                    |                                    |                                      |
| 12                                                              |                                                                                                    |                    | 30                                                                                  |                    |                                    |                                      |
| 13                                                              |                                                                                                    |                    | 31                                                                                  |                    |                                    |                                      |
| 14                                                              | 22-28-9148                                                                                         | A-42377-0504       | 32                                                                                  |                    |                                    |                                      |
| 15                                                              |                                                                                                    |                    | 33                                                                                  |                    |                                    |                                      |
| 16                                                              |                                                                                                    |                    | 34                                                                                  |                    |                                    |                                      |
| 17                                                              |                                                                                                    |                    | 35                                                                                  |                    |                                    |                                      |
| 18                                                              |                                                                                                    |                    | 36                                                                                  |                    |                                    |                                      |
| 19                                                              |                                                                                                    |                    |                                                                                     |                    |                                    |                                      |
| REV:<br><br><b>X1</b>                                           | <u>ECR/ECN INFORMATION:</u><br><u>EC No:</u> <b>UCP2009-0952</b><br><u>DATE:</u> <b>10/31/2008</b> |                    | <u>TITLE:</u><br><b>KK 100 HEADER ASSEMBLY<br/> FLAT RIGHT ANGLE<br/> BREAKAWAY</b> |                    |                                    | <u>SHEET No.</u><br><br><b>- 8 -</b> |
| <u>DOCUMENT NUMBER:</u><br><b>SD- 42377-001</b>                 |                                                                                                    |                    | <u>CREATED / REVISED BY:</u><br><b>MKIPPER</b>                                      |                    | <u>CHECKED BY:</u><br><b>JBELL</b> | <u>APPROVED BY:</u><br><b>FSMITH</b> |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                                                                                                    |                    |                                                                                     |                    |                                    |                                      |

|                                                                 |                 |                             |  |                    |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
|-----------------------------------------------------------------|-----------------|-----------------------------|--|--------------------|-----------------|----------------------------------------------------------------------------------------|--|--|--|--------------------|--|------------------|--|---------------------|--|
|                                                                 |                 |                             |  |                    |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
|                                                                 |                 |                             |  |                    |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| ✓ A-42377-0693 / 0726                                           |                 |                             |  |                    |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| HEADER NUMBER:                                                  |                 |                             |  | 42312-0036         |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| PIN NUMBER:                                                     |                 |                             |  | 42663-BCA154       |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| PIN LENGTH: L                                                   |                 |                             |  | .565/14.35         |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| MATING LENGTH: M                                                |                 |                             |  | .244/6.20          |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| GOLD POINT: G                                                   |                 |                             |  | N/A                |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| PIN HEIGHT: Y                                                   |                 |                             |  | .070/1.78          |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| PC TAIL LENGTH: P                                               |                 |                             |  | .135/3.43          |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| TIN: T                                                          |                 |                             |  | OVERALL            |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| CKTS:                                                           |                 |                             |  | 3-36               |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| KINKS:                                                          |                 |                             |  | PER SMES-42003     |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| REMOVED BACKWALLS:                                              |                 |                             |  | NO                 |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| VOIDED CKTS:                                                    |                 |                             |  | 2                  |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| PACKAGING:                                                      |                 |                             |  | BULK PK-40873-0041 |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| CKTS                                                            | MATERIAL NUMBER |                             |  | CKTS               | MATERIAL NUMBER |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 02                                                              |                 |                             |  | 20                 | 42377-0710      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 03                                                              | 42377-0693      |                             |  | 21                 | 42377-0711      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 04                                                              | 42377-0694      |                             |  | 22                 | 42377-0712      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 05                                                              | 42377-0695      |                             |  | 23                 | 42377-0713      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 06                                                              | 42377-0696      |                             |  | 24                 | 42377-0714      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 07                                                              | 42377-0697      |                             |  | 25                 | 42377-0715      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 08                                                              | 42377-0698      |                             |  | 26                 | 42377-0716      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 09                                                              | 42377-0699      |                             |  | 27                 | 42377-0717      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 10                                                              | 42377-0700      |                             |  | 28                 | 42377-0718      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 11                                                              | 42377-0701      |                             |  | 29                 | 42377-0719      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 12                                                              | 42377-0702      |                             |  | 30                 | 42377-0720      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 13                                                              | 42377-0703      |                             |  | 31                 | 42377-0721      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 14                                                              | 42377-0704      |                             |  | 32                 | 42377-0727      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 15                                                              | 42377-0705      |                             |  | 33                 | 42377-0723      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 16                                                              | 42377-0706      |                             |  | 34                 | 42377-0724      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 17                                                              | 42377-0707      |                             |  | 35                 | 42377-0725      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 18                                                              | 42377-0708      |                             |  | 36                 | 42377-0726      |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| 19                                                              | 42377-0709      |                             |  |                    |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
|                                                                 |                 |                             |  |                    |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| REV:                                                            |                 | <u>ECR/ECN INFORMATION:</u> |  |                    |                 | <u>TITLE:</u>                                                                          |  |  |  |                    |  | <u>SHEET No.</u> |  |                     |  |
| <b>X1</b>                                                       |                 | <u>EC No:</u> UCP2009-0952  |  |                    |                 | <b>KK 100 HEADER ASSEMBLY<br/>           FLAT RIGHT ANGLE<br/>           BREAKAWAY</b> |  |  |  |                    |  | <b>- 9 -</b>     |  |                     |  |
|                                                                 |                 | <u>DATE:</u> 10/31/2008     |  |                    |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |
| <u>DOCUMENT NUMBER:</u>                                         |                 |                             |  |                    |                 | <u>CREATED / REVISED BY:</u>                                                           |  |  |  | <u>CHECKED BY:</u> |  |                  |  | <u>APPROVED BY:</u> |  |
| <b>SD- 42377-001</b>                                            |                 |                             |  |                    |                 | <b>MKIPPER</b>                                                                         |  |  |  | <b>JBELL</b>       |  |                  |  | <b>FSMITH</b>       |  |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                             |  |                    |                 |                                                                                        |  |  |  |                    |  |                  |  |                     |  |

|                                                  |                 |                                   |  |                    |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
|--------------------------------------------------|-----------------|-----------------------------------|--|--------------------|-----------------|------------------------------------------------------------------|--|--|--|--------------------|--|------------------|--|---------------------|--|
|                                                  |                 |                                   |  |                    |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| ✓ A-42377-0864 / 0898                            |                 |                                   |  |                    |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| HEADER NUMBER:                                   |                 |                                   |  | 42312-0036         |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| PIN NUMBER:                                      |                 |                                   |  | 42663-BXA154       |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| PIN LENGTH: L                                    |                 |                                   |  | .645/16.38         |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| MATING LENGTH: M                                 |                 |                                   |  | .324/8.28          |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| GOLD POINT: G                                    |                 |                                   |  | N/A                |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| PIN HEIGHT: Y                                    |                 |                                   |  | .070/1.78          |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| PC TAIL LENGTH: P                                |                 |                                   |  | .135/3.43          |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| TIN: T                                           |                 |                                   |  | OVERALL            |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| CKTS:                                            |                 |                                   |  | 2-36               |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| KINKS:                                           |                 |                                   |  | NONE               |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| REMOVED BACKWALLS:                               |                 |                                   |  | NONE               |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| VOIDED CKTS:                                     |                 |                                   |  | NONE               |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| PACKAGING:                                       |                 |                                   |  | BULK PK-40873-0041 |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| CKTS                                             | MATERIAL NUMBER |                                   |  | CKTS               | MATERIAL NUMBER |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 02                                               | 42377-0864      |                                   |  | 20                 | 42377-0882      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 03                                               | 42377-0865      |                                   |  | 21                 | 42377-0883      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 04                                               | 42377-0866      |                                   |  | 22                 | 42377-0884      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 05                                               | 42377-0867      |                                   |  | 23                 | 42377-0885      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 06                                               | 42377-0868      |                                   |  | 24                 | 42377-0886      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 07                                               | 42377-0869      |                                   |  | 25                 | 42377-0887      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 08                                               | 42377-0870      |                                   |  | 26                 | 42377-0888      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 09                                               | 42377-0871      |                                   |  | 27                 | 42377-0889      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 10                                               | 42377-0872      |                                   |  | 28                 | 42377-0890      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 11                                               | 42377-0873      |                                   |  | 29                 | 42377-0891      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 12                                               | 42377-0874      |                                   |  | 30                 | 42377-0892      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 13                                               | 42377-0875      |                                   |  | 31                 | 42377-0893      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 14                                               | 42377-0876      |                                   |  | 32                 | 42377-0894      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 15                                               | 42377-0877      |                                   |  | 33                 | 42377-0895      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 16                                               | 42377-0878      |                                   |  | 34                 | 42377-0896      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 17                                               | 42377-0879      |                                   |  | 35                 | 42377-0897      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 18                                               | 42377-0880      |                                   |  | 36                 | 42377-0898      |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| 19                                               | 42377-0881      |                                   |  |                    |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
|                                                  |                 |                                   |  |                    |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| REV:                                             |                 | <u>ECR/ECN INFORMATION:</u>       |  |                    |                 | <u>TITLE:</u>                                                    |  |  |  |                    |  | <u>SHEET No.</u> |  |                     |  |
| <b>X1</b>                                        |                 | <u>EC No:</u> <b>UCP2009-0952</b> |  |                    |                 | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |  |  |  |                    |  | <b>- 10 -</b>    |  |                     |  |
|                                                  |                 | <u>DATE:</u> <b>10/31/2008</b>    |  |                    |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |
| <u>DOCUMENT NUMBER:</u>                          |                 |                                   |  |                    |                 | <u>CREATED / REVISED BY:</u>                                     |  |  |  | <u>CHECKED BY:</u> |  |                  |  | <u>APPROVED BY:</u> |  |
| <b>SD- 42377-001</b>                             |                 |                                   |  |                    |                 | <b>MKIPPER</b>                                                   |  |  |  | <b>JBELL</b>       |  |                  |  | <b>FSMITH</b>       |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |                                   |  |                    |                 |                                                                  |  |  |  |                    |  |                  |  |                     |  |

| ✓ A-42377-0899/ 0927 |                 |                    |                 |
|----------------------|-----------------|--------------------|-----------------|
| HEADER NUMBER:       |                 | 42312-0036         |                 |
| PIN NUMBER:          |                 | 42663-BXB208       |                 |
| PIN LENGTH: L        |                 | .645/16.38         |                 |
| MATING LENGTH: M     |                 | .324/8.28          |                 |
| GOLD POINT: G        |                 | .140/3.56          |                 |
| PIN HEIGHT: Y        |                 | .070/1.78          |                 |
| PC TAIL LENGTH: P    |                 | .135/3.43          |                 |
| TIN: T               |                 | .135/3.43          |                 |
| CKTS:                |                 | 8-36               |                 |
| KINKS:               |                 | PER SMES-42003     |                 |
| REMOVED BACKWALLS:   |                 | NONE               |                 |
| VOIDED CKTS:         |                 | 2,3,4,6,7,8        |                 |
| PACKAGING:           |                 | BULK PK-40873-0041 |                 |
| CKTS                 | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
| 02                   |                 | 20                 | 42377-0911      |
| 03                   |                 | 21                 | 42377-0912      |
| 04                   |                 | 22                 | 42377-0913      |
| 05                   |                 | 23                 | 42377-0914      |
| 06                   |                 | 24                 | 42377-0915      |
| 07                   |                 | 25                 | 42377-0916      |
| 08                   | 42377-0899      | 26                 | 42377-0917      |
| 09                   | 42377-0900      | 27                 | 42377-0918      |
| 10                   | 42377-0901      | 28                 | 42377-0919      |
| 11                   | 42377-0902      | 29                 | 42377-0920      |
| 12                   | 42377-0903      | 30                 | 42377-0921      |
| 13                   | 42377-0904      | 31                 | 42377-0922      |
| 14                   | 42377-0905      | 32                 | 42377-0923      |
| 15                   | 42377-0906      | 33                 | 42377-0924      |
| 16                   | 42377-0907      | 34                 | 42377-0925      |
| 17                   | 42377-0908      | 35                 | 42377-0926      |
| 18                   | 42377-0909      | 36                 | 42377-0927      |
| 19                   | 42377-0910      |                    |                 |

|                                                  |                 |  |  |                      |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
|--------------------------------------------------|-----------------|--|--|----------------------|-----------------|--|--|------------------------------------------------------------------|--|--|--|--------------|--|--|--|---------------|--|--|--|
|                                                  |                 |  |  |                      |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| ✓ A-42377-0928 / 0962                            |                 |  |  |                      |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| HEADER NUMBER:                                   |                 |  |  | 42312-0036           |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| PIN NUMBER:                                      |                 |  |  | 42663-DHB208         |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| PIN LENGTH: L                                    |                 |  |  | .800/20.32           |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| MATING LENGTH: M                                 |                 |  |  | .317/8.05            |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| GOLD POINT: G                                    |                 |  |  | .180/4.57            |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| PIN HEIGHT: Y                                    |                 |  |  | .070/1.78            |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| PC TAIL LENGTH: P                                |                 |  |  | .290/7.37            |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| TIN: T                                           |                 |  |  | .135/3.43            |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| CKTS:                                            |                 |  |  | 2-36                 |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| KINKS:                                           |                 |  |  | NONE                 |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| REMOVED BACKWALLS:                               |                 |  |  | NONE                 |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| VOIDED CKTS:                                     |                 |  |  | NONE                 |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| PACKAGING:                                       |                 |  |  | BULK PK-40873-0043   |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| CKTS                                             | MATERIAL NUMBER |  |  | CKTS                 | MATERIAL NUMBER |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 02                                               | 42377-0928      |  |  | 20                   | 42377-0946      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 03                                               | 42377-0929      |  |  | 21                   | 42377-0947      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 04                                               | 42377-0930      |  |  | 22                   | 42377-0948      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 05                                               | 42377-0931      |  |  | 23                   | 42377-0949      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 06                                               | 42377-0932      |  |  | 24                   | 42377-0950      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 07                                               | 42377-0933      |  |  | 25                   | 42377-0951      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 08                                               | 42377-0934      |  |  | 26                   | 42377-0952      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 09                                               | 42377-0935      |  |  | 27                   | 42377-0953      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 10                                               | 42377-0936      |  |  | 28                   | 42377-0954      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 11                                               | 42377-0937      |  |  | 29                   | 42377-0955      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 12                                               | 42377-0938      |  |  | 30                   | 42377-0956      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 13                                               | 42377-0939      |  |  | 31                   | 42377-0957      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 14                                               | 42377-0940      |  |  | 32                   | 42377-0958      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 15                                               | 42377-0941      |  |  | 33                   | 42377-0959      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 16                                               | 42377-0942      |  |  | 34                   | 42377-0960      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 17                                               | 42377-0943      |  |  | 35                   | 42377-0961      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 18                                               | 42377-0944      |  |  | 36                   | 42377-0962      |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| 19                                               | 42377-0945      |  |  |                      |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
|                                                  |                 |  |  |                      |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |
| REV:                                             |                 |  |  | ECR/ECN INFORMATION: |                 |  |  | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |  |  |  | SHEET No.    |  |  |  |               |  |  |  |
| <b>X1</b>                                        |                 |  |  | EC No:               |                 |  |  |                                                                  |  |  |  | UCP2009-0952 |  |  |  | <b>- 11 -</b> |  |  |  |
|                                                  |                 |  |  | DATE:                |                 |  |  |                                                                  |  |  |  | 10/31/2008   |  |  |  |               |  |  |  |
| DOCUMENT NUMBER:                                 |                 |  |  |                      |                 |  |  | CREATED / REVISED BY:                                            |  |  |  | CHECKED BY:  |  |  |  | APPROVED BY:  |  |  |  |
| SD- 42377-001                                    |                 |  |  |                      |                 |  |  | MKIPPER                                                          |  |  |  | JBELL        |  |  |  | FSMITH        |  |  |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |  |  |                      |                 |  |  |                                                                  |  |  |  |              |  |  |  |               |  |  |  |

| ✓ A-42377-0963/ 0997 |                 |                    |                 |
|----------------------|-----------------|--------------------|-----------------|
| HEADER NUMBER:       |                 | 42312-0036         |                 |
| PIN NUMBER:          |                 | 42663-ABA154       |                 |
| PIN LENGTH: L        |                 | .455/11.56         |                 |
| MATING LENGTH: M     |                 | .140/3.56          |                 |
| GOLD POINT: G        |                 | N/A                |                 |
| PIN HEIGHT: Y        |                 | .050/1.27          |                 |
| PC TAIL LENGTH: P    |                 | .145/3.68          |                 |
| TIN: T               |                 | OVERALL            |                 |
| CKTS:                |                 | 2-36               |                 |
| KINKS:               |                 | NONE               |                 |
| REMOVED BACKWALLS:   |                 | NONE               |                 |
| VOIDED CKTS:         |                 | NONE               |                 |
| PACKAGING:           |                 | BULK PK-40873-0041 |                 |
| CKTS                 | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
| 02                   | 42377-0963      | 20                 | 42377-0981      |
| 03                   | 42377-0964      | 21                 | 42377-0982      |
| 04                   | 42377-0965      | 22                 | 42377-0983      |
| 05                   | 42377-0966      | 23                 | 42377-0984      |
| 06                   | 42377-0967      | 24                 | 42377-0985      |
| 07                   | 42377-0968      | 25                 | 42377-0986      |
| 08                   | 42377-0969      | 26                 | 42377-0987      |
| 09                   | 42377-0970      | 27                 | 42377-0988      |
| 10                   | 42377-0971      | 28                 | 42377-0989      |
| 11                   | 42377-0972      | 29                 | 42377-0990      |
| 12                   | 42377-0973      | 30                 | 42377-0991      |
| 13                   | 42377-0974      | 31                 | 42377-0992      |
| 14                   | 42377-0975      | 32                 | 42377-0993      |
| 15                   | 42377-0976      | 33                 | 42377-0994      |
| 16                   | 42377-0977      | 34                 | 42377-0995      |
| 17                   | 42377-0978      | 35                 | 42377-0996      |
| 18                   | 42377-0979      | 36                 | 42377-0997      |
| 19                   | 42377-0980      |                    |                 |

|                                                  |                 |                                                                     |  |                    |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
|--------------------------------------------------|-----------------|---------------------------------------------------------------------|--|--------------------|-----------------|------------------------------------------------------------------------------|--|------|--------------------|--|--|---------------------|-----------------|--|--|
|                                                  |                 |                                                                     |  |                    |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| ✓ A-42377-0998 / 1031                            |                 |                                                                     |  |                    |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| HEADER NUMBER:                                   |                 |                                                                     |  | 42312-0036         |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| PIN NUMBER:                                      |                 |                                                                     |  | 42663-ABA154       |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| PIN LENGTH: L                                    |                 |                                                                     |  | .455/11.56         |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| MATING LENGTH: M                                 |                 |                                                                     |  | .140/3.56          |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| GOLD POINT: G                                    |                 |                                                                     |  | N/A                |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| PIN HEIGHT: Y                                    |                 |                                                                     |  | .050/1.27          |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| PC TAIL LENGTH: P                                |                 |                                                                     |  | .145/3.68          |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| TIN: T                                           |                 |                                                                     |  | OVERALL            |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| CKTS:                                            |                 |                                                                     |  | 3-36               |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| KINKS:                                           |                 |                                                                     |  | NONE               |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| REMOVED BACKWALLS:                               |                 |                                                                     |  | NONE               |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| VOIDED CKTS:                                     |                 |                                                                     |  | 3                  |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| PACKAGING:                                       |                 |                                                                     |  | BULK PK-40873-0041 |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| CKTS                                             | MATERIAL NUMBER |                                                                     |  | CKTS               | MATERIAL NUMBER |                                                                              |  | CKTS | MATERIAL NUMBER    |  |  | CKTS                | MATERIAL NUMBER |  |  |
| 02                                               |                 |                                                                     |  | 20                 | 42377-1015      |                                                                              |  | 02   | 42377-1032         |  |  | 20                  | 42377-1050      |  |  |
| 03                                               | 42377-0998      |                                                                     |  | 21                 | 42377-1016      |                                                                              |  | 03   | 42377-1033         |  |  | 21                  | 42377-1051      |  |  |
| 04                                               | 42377-0999      |                                                                     |  | 22                 | 42377-1017      |                                                                              |  | 04   | 42377-1034         |  |  | 22                  | 42377-1052      |  |  |
| 05                                               | 42377-1000      |                                                                     |  | 23                 | 42377-1018      |                                                                              |  | 05   | 42377-1035         |  |  | 23                  | 42377-1053      |  |  |
| 06                                               | 42377-1001      |                                                                     |  | 24                 | 42377-1019      |                                                                              |  | 06   | 42377-1036         |  |  | 24                  | 42377-1054      |  |  |
| 07                                               | 42377-1002      |                                                                     |  | 25                 | 42377-1020      |                                                                              |  | 07   | 42377-1037         |  |  | 25                  | 42377-1055      |  |  |
| 08                                               | 42377-1003      |                                                                     |  | 26                 | 42377-1021      |                                                                              |  | 08   | 42377-1038         |  |  | 26                  | 42377-1056      |  |  |
| 09                                               | 42377-1004      |                                                                     |  | 27                 | 42377-1022      |                                                                              |  | 09   | 42377-1039         |  |  | 27                  | 42377-1057      |  |  |
| 10                                               | 42377-1005      |                                                                     |  | 28                 | 42377-1023      |                                                                              |  | 10   | 42377-1040         |  |  | 28                  | 42377-1058      |  |  |
| 11                                               | 42377-1006      |                                                                     |  | 29                 | 42377-1024      |                                                                              |  | 11   | 42377-1041         |  |  | 29                  | 42377-1059      |  |  |
| 12                                               | 42377-1007      |                                                                     |  | 30                 | 42377-1025      |                                                                              |  | 12   | 42377-1042         |  |  | 30                  | 42377-1060      |  |  |
| 13                                               | 42377-1008      |                                                                     |  | 31                 | 42377-1026      |                                                                              |  | 13   | 42377-1043         |  |  | 31                  | 42377-1061      |  |  |
| 14                                               | 42377-1009      |                                                                     |  | 32                 | 42377-1027      |                                                                              |  | 14   | 42377-1044         |  |  | 32                  | 42377-1062      |  |  |
| 15                                               | 42377-1010      |                                                                     |  | 33                 | 42377-1028      |                                                                              |  | 15   | 42377-1045         |  |  | 33                  | 42377-1063      |  |  |
| 16                                               | 42377-1011      |                                                                     |  | 34                 | 42377-1029      |                                                                              |  | 16   | 42377-1046         |  |  | 34                  | 42377-1064      |  |  |
| 17                                               | 42377-1012      |                                                                     |  | 35                 | 42377-1030      |                                                                              |  | 17   | 42377-1047         |  |  | 35                  | 42377-1065      |  |  |
| 18                                               | 42377-1013      |                                                                     |  | 36                 | 42377-1031      |                                                                              |  | 18   | 42377-1048         |  |  | 36                  | 42377-1066      |  |  |
| 19                                               | 42377-1014      |                                                                     |  |                    |                 |                                                                              |  | 19   | 42377-1049         |  |  |                     |                 |  |  |
|                                                  |                 |                                                                     |  |                    |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |
| REV:                                             |                 | <u>ECR/ECN INFORMATION:</u>                                         |  |                    |                 | <u>TITLE:</u>                                                                |  |      |                    |  |  | <u>SHEET No.</u>    |                 |  |  |
| <b>X1</b>                                        |                 | <u>EC No:</u> <b>UCP2009-0952</b><br><u>DATE:</u> <b>10/31/2008</b> |  |                    |                 | <b>KK 100 HEADER ASSEMBLY</b><br><b>FLAT RIGHT ANGLE</b><br><b>BREAKAWAY</b> |  |      |                    |  |  | <b>- 12 -</b>       |                 |  |  |
| <u>DOCUMENT NUMBER:</u>                          |                 |                                                                     |  |                    |                 | <u>CREATED / REVISED BY:</u>                                                 |  |      | <u>CHECKED BY:</u> |  |  | <u>APPROVED BY:</u> |                 |  |  |
| <b>SD- 42377-001</b>                             |                 |                                                                     |  |                    |                 | <b>MKIPPER</b>                                                               |  |      | <b>JBELL</b>       |  |  | <b>FSMITH</b>       |                 |  |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |                                                                     |  |                    |                 |                                                                              |  |      |                    |  |  |                     |                 |  |  |

|                                                  |                                   |                              |                                                                  |
|--------------------------------------------------|-----------------------------------|------------------------------|------------------------------------------------------------------|
|                                                  |                                   |                              |                                                                  |
| A-42377-1101/1130                                |                                   |                              |                                                                  |
| HEADER NUMBER:                                   |                                   | 42312-0036                   |                                                                  |
| PIN NUMBER:                                      |                                   | 42663-BSA154                 |                                                                  |
| PIN LENGTH: L                                    |                                   | .630/16.00                   |                                                                  |
| MATING LENGTH: M                                 |                                   | .324/8.23                    |                                                                  |
| GOLD POINT: G                                    |                                   | N/A                          |                                                                  |
| PIN HEIGHT: Y                                    |                                   | .070/1.78                    |                                                                  |
| PC TAIL LENGTH: P                                |                                   | .120/3.05                    |                                                                  |
| TIN: T                                           |                                   | OVERALL                      |                                                                  |
| CKTS:                                            |                                   | 2-36                         |                                                                  |
| KINKS:                                           |                                   | NONE                         |                                                                  |
| REMOVED BACKWALLS:                               |                                   | NONE                         |                                                                  |
| VOIDED CKTS:                                     |                                   | 7                            |                                                                  |
| PACKAGING:                                       |                                   | BULK PK-40873-0041           |                                                                  |
| CKTS                                             | MATERIAL NUMBER                   | CKTS                         | MATERIAL NUMBER                                                  |
| 02                                               |                                   | 20                           | 42377-1114                                                       |
| 03                                               |                                   | 21                           | 42377-1115                                                       |
| 04                                               |                                   | 22                           | 42377-1116                                                       |
| 05                                               |                                   | 23                           | 42377-1117                                                       |
| 06                                               |                                   | 24                           | 42377-1118                                                       |
| 07                                               | 42377-1101                        | 25                           | 42377-1119                                                       |
| 08                                               | 42377-1102                        | 26                           | 42377-1120                                                       |
| 09                                               | 42377-1103                        | 27                           | 42377-1121                                                       |
| 10                                               | 42377-1104                        | 28                           | 42377-1122                                                       |
| 11                                               | 42377-1105                        | 29                           | 42377-1123                                                       |
| 12                                               | 42377-1106                        | 30                           | 42377-1124                                                       |
| 13                                               | 42377-1107                        | 31                           | 42377-1125                                                       |
| 14                                               | 42377-1108                        | 32                           | 42377-1126                                                       |
| 15                                               | 42377-1109                        | 33                           | 42377-1127                                                       |
| 16                                               | 42377-1110                        | 34                           | 42377-1128                                                       |
| 17                                               | 42377-1111                        | 35                           | 42377-1129                                                       |
| 18                                               | 42377-1112                        | 36                           | 42377-1130                                                       |
| 19                                               | 42377-1113                        |                              |                                                                  |
|                                                  |                                   |                              |                                                                  |
| REV:                                             |                                   | TITLE:                       |                                                                  |
| <b>X1</b>                                        | <u>ECR/ECN INFORMATION:</u>       |                              | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |
|                                                  | <u>EC No:</u> <b>UCP2009-0952</b> |                              |                                                                  |
|                                                  | <u>DATE:</u> <b>10/31/2008</b>    |                              |                                                                  |
| <u>DOCUMENT NUMBER:</u>                          |                                   | <u>CREATED / REVISED BY:</u> | <u>CHECKED BY:</u>                                               |
| <b>SD- 42377-001</b>                             |                                   | <b>MKIPPER</b>               | <b>JBELL</b>                                                     |
|                                                  |                                   | <u>APPROVED BY:</u>          |                                                                  |
|                                                  |                                   | <b>FSMITH</b>                |                                                                  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                                   |                              |                                                                  |

| A-42377-1131/1165  |                 |                    |                 |
|--------------------|-----------------|--------------------|-----------------|
| HEADER NUMBER:     |                 | 42312-0036         |                 |
| PIN NUMBER:        |                 | 42663-ARB208       |                 |
| PIN LENGTH: L      |                 | .520/13.21         |                 |
| MATING LENGTH: M   |                 | .230/5.84          |                 |
| GOLD POINT: G      |                 | .140/3.56          |                 |
| PIN HEIGHT: Y      |                 | .070/1.78          |                 |
| PC TAIL LENGTH: P  |                 | .093/2.36          |                 |
| TIN: T             |                 | .135/3.43          |                 |
| CKTS:              |                 | 2-36               |                 |
| KINKS:             |                 | NONE               |                 |
| REMOVED BACKWALLS: |                 | NONE               |                 |
| VOIDED CKTS:       |                 | NONE               |                 |
| PACKAGING:         |                 | BULK PK-40873-0041 |                 |
| CKTS               | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
| 02                 | 42377-1131      | 20                 | 42377-1149      |
| 03                 | 42377-1132      | 21                 | 42377-1150      |
| 04                 | 42377-1133      | 22                 | 42377-1151      |
| 05                 | 42377-1134      | 23                 | 42377-1152      |
| 06                 | 42377-1135      | 24                 | 42377-1153      |
| 07                 | 42377-1136      | 25                 | 42377-1154      |
| 08                 | 42377-1137      | 26                 | 42377-1155      |
| 09                 | 42377-1138      | 27                 | 42377-1156      |
| 10                 | 42377-1139      | 28                 | 42377-1157      |
| 11                 | 42377-1140      | 29                 | 42377-1158      |
| 12                 | 42377-1141      | 30                 | 42377-1159      |
| 13                 | 42377-1142      | 31                 | 42377-1160      |
| 14                 | 42377-1143      | 32                 | 42377-1161      |
| 15                 | 42377-1144      | 33                 | 42377-1162      |
| 16                 | 42377-1145      | 34                 | 42377-1163      |
| 17                 | 42377-1146      | 35                 | 42377-1164      |
| 18                 | 42377-1147      | 36                 | 42377-1165      |
| 19                 | 42377-1148      |                    |                 |

|                                                  |                      |                       |                                                                  |
|--------------------------------------------------|----------------------|-----------------------|------------------------------------------------------------------|
|                                                  |                      |                       |                                                                  |
| A-42377-1166/1200                                |                      |                       |                                                                  |
| HEADER NUMBER:                                   |                      | 42312-0036            |                                                                  |
| PIN NUMBER:                                      |                      | 42663-BKA154          |                                                                  |
| PIN LENGTH: L                                    |                      | .600/15.24            |                                                                  |
| MATING LENGTH: M                                 |                      | .320/8.13             |                                                                  |
| GOLD POINT: G                                    |                      | N/A                   |                                                                  |
| PIN HEIGHT: Y                                    |                      | .070/1.78             |                                                                  |
| PC TAIL LENGTH: P                                |                      | .093/2.36             |                                                                  |
| TIN: T                                           |                      | OVERALL               |                                                                  |
| CKTS:                                            |                      | 2-36                  |                                                                  |
| KINKS:                                           |                      | NONE                  |                                                                  |
| REMOVED BACKWALLS:                               |                      | NONE                  |                                                                  |
| VOIDED CKTS:                                     |                      | NONE                  |                                                                  |
| PACKAGING:                                       |                      | BULK PK-40873-0041    |                                                                  |
| CKTS                                             | MATERIAL NUMBER      | CKTS                  | MATERIAL NUMBER                                                  |
| 02                                               | 42377-1166           | 20                    | 42377-1184                                                       |
| 03                                               | 42377-1167           | 21                    | 42377-1185                                                       |
| 04                                               | 42377-1168           | 22                    | 42377-1186                                                       |
| 05                                               | 42377-1169           | 23                    | 42377-1187                                                       |
| 06                                               | 42377-1170           | 24                    | 42377-1188                                                       |
| 07                                               | 42377-1171           | 25                    | 42377-1189                                                       |
| 08                                               | 42377-1172           | 26                    | 42377-1190                                                       |
| 09                                               | 42377-1173           | 27                    | 42377-1191                                                       |
| 10                                               | 42377-1174           | 28                    | 42377-1192                                                       |
| 11                                               | 42377-1175           | 29                    | 42377-1193                                                       |
| 12                                               | 42377-1176           | 30                    | 42377-1194                                                       |
| 13                                               | 42377-1177           | 31                    | 42377-1195                                                       |
| 14                                               | 42377-1178           | 32                    | 42377-1196                                                       |
| 15                                               | 42377-1179           | 33                    | 42377-1197                                                       |
| 16                                               | 42377-1180           | 34                    | 42377-1198                                                       |
| 17                                               | 42377-1181           | 35                    | 42377-1199                                                       |
| 18                                               | 42377-1182           | 36                    | 42377-1200                                                       |
| 19                                               | 42377-1183           |                       |                                                                  |
|                                                  |                      |                       |                                                                  |
| REV:                                             |                      | TITLE:                |                                                                  |
| <b>X1</b>                                        | ECR/ECN INFORMATION: |                       | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |
|                                                  | EC No: UCP2009-0952  |                       |                                                                  |
|                                                  | DATE: 10/31/2008     |                       |                                                                  |
| DOCUMENT NUMBER:                                 |                      | CREATED / REVISED BY: | CHECKED BY:                                                      |
| <b>SD- 42377-001</b>                             |                      | <b>MKIPPER</b>        | <b>JBELL</b>                                                     |
|                                                  |                      | APPROVED BY:          |                                                                  |
|                                                  |                      | <b>FSMITH</b>         |                                                                  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                      |                       |                                                                  |

|                    |                 |                    |                 |
|--------------------|-----------------|--------------------|-----------------|
| A-42377-1201/1234  |                 |                    |                 |
| HEADER NUMBER:     |                 | 42312-0036         |                 |
| PIN NUMBER:        |                 | 42663-BKA154       |                 |
| PIN LENGTH: L      |                 | .600/15.24         |                 |
| MATING LENGTH: M   |                 | .320/8.13          |                 |
| GOLD POINT: G      |                 | N/A                |                 |
| PIN HEIGHT: Y      |                 | .070/1.78          |                 |
| PC TAIL LENGTH: P  |                 | .093/2.36          |                 |
| TIN: T             |                 | OVERALL            |                 |
| CKTS:              |                 | 3-36               |                 |
| KINKS:             |                 | NONE               |                 |
| REMOVED BACKWALLS: |                 | NONE               |                 |
| VOIDED CKTS:       |                 | 2                  |                 |
| PACKAGING:         |                 | BULK PK-40873-0041 |                 |
| CKTS               | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
| 02                 |                 | 20                 | 42377-1218      |
| 03                 | 42377-1201      | 21                 | 42377-1219      |
| 04                 | 42377-1202      | 22                 | 42377-1220      |
| 05                 | 42377-1203      | 23                 | 42377-1221      |
| 06                 | 42377-1204      | 24                 | 42377-1222      |
| 07                 | 42377-1205      | 25                 | 42377-1223      |
| 08                 | 42377-1206      | 26                 | 42377-1224      |
| 09                 | 42377-1207      | 27                 | 42377-1225      |
| 10                 | 42377-1208      | 28                 | 42377-1226      |
| 11                 | 42377-1209      | 29                 | 42377-1227      |
| 12                 | 42377-1210      | 30                 | 42377-1228      |
| 13                 | 42377-1211      | 31                 | 42377-1229      |
| 14                 | 42377-1212      | 32                 | 42377-1230      |
| 15                 | 42377-1213      | 33                 | 42377-1231      |
| 16                 | 42377-1214      | 34                 | 42377-1232      |
| 17                 | 42377-1215      | 35                 | 42377-1233      |
| 18                 | 42377-1216      | 36                 | 42377-1234      |
| 19                 | 42377-1217      |                    |                 |



|                                                                 |                 |                      |                 |                                                                  |                 |                    |                 |                   |                 |
|-----------------------------------------------------------------|-----------------|----------------------|-----------------|------------------------------------------------------------------|-----------------|--------------------|-----------------|-------------------|-----------------|
|                                                                 |                 |                      |                 |                                                                  |                 |                    |                 |                   |                 |
| A-42377-1067/1100                                               |                 |                      |                 |                                                                  |                 |                    |                 | A-42377-1235/1269 |                 |
| HEADER NUMBER:                                                  |                 | 42312-0036           |                 | HEADER NUMBER:                                                   |                 | 42312-0036         |                 |                   |                 |
| PIN NUMBER:                                                     |                 | 42663-ATB208         |                 | PIN NUMBER:                                                      |                 | 42663-BXB228       |                 |                   |                 |
| PIN LENGTH: L                                                   |                 | .530 / 13.46         |                 | PIN LENGTH: L                                                    |                 | .645/16.48         |                 |                   |                 |
| MATING LENGTH: M                                                |                 | .244 / 6.20          |                 | MATING LENGTH: M                                                 |                 | .324/8.23          |                 |                   |                 |
| GOLD POINT: G                                                   |                 | .140 / 3.56          |                 | GOLD POINT: G                                                    |                 | .140/3.56          |                 |                   |                 |
| PIN HEIGHT: Y                                                   |                 | .050 / 1.27          |                 | PIN HEIGHT: Y                                                    |                 | .070/1.78          |                 |                   |                 |
| PC TAIL LENGTH: P                                               |                 | .120 / 3.05          |                 | PC TAIL LENGTH: P                                                |                 | .135/3.43          |                 |                   |                 |
| TIN: T                                                          |                 | .135 / 3.43          |                 | TIN: T                                                           |                 | .135/3.43          |                 |                   |                 |
| CKTS:                                                           |                 | 3-36                 |                 | CKTS:                                                            |                 | 2-36               |                 |                   |                 |
| KINKS:                                                          |                 | NONE                 |                 | KINKS:                                                           |                 | NONE               |                 |                   |                 |
| REMOVED BACKWALLS:                                              |                 | NONE                 |                 | REMOVED BACKWALLS:                                               |                 | NONE               |                 |                   |                 |
| VOIDED CKTS:                                                    |                 | 3                    |                 | VOIDED CKTS:                                                     |                 | NONE               |                 |                   |                 |
| PACKAGING:                                                      |                 | BULK PK-40873-0041   |                 | PACKAGING:                                                       |                 | BULK PK-40873-0041 |                 |                   |                 |
| CKTS                                                            | MATERIAL NUMBER | CKTS                 | MATERIAL NUMBER | CKTS                                                             | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER | CKTS              | MATERIAL NUMBER |
| 02                                                              |                 | 20                   |                 | 02                                                               | 42377-1235      | 20                 |                 |                   |                 |
| 03                                                              |                 | 21                   |                 | 03                                                               |                 | 21                 |                 |                   |                 |
| 04                                                              |                 | 22                   |                 | 04                                                               |                 | 22                 |                 |                   |                 |
| 05                                                              |                 | 23                   |                 | 05                                                               |                 | 23                 |                 |                   |                 |
| 06                                                              |                 | 24                   |                 | 06                                                               |                 | 24                 |                 |                   |                 |
| 07                                                              |                 | 25                   |                 | 07                                                               |                 | 25                 |                 |                   |                 |
| 08                                                              |                 | 26                   |                 | 08                                                               |                 | 26                 |                 |                   |                 |
| 09                                                              |                 | 27                   |                 | 09                                                               |                 | 27                 |                 |                   |                 |
| 10                                                              |                 | 28                   |                 | 10                                                               |                 | 28                 |                 |                   |                 |
| 11                                                              | 42377-1075      | 29                   |                 | 11                                                               |                 | 29                 |                 |                   |                 |
| 12                                                              |                 | 30                   |                 | 12                                                               |                 | 30                 |                 |                   |                 |
| 13                                                              |                 | 31                   |                 | 13                                                               |                 | 31                 |                 |                   |                 |
| 14                                                              |                 | 32                   |                 | 14                                                               |                 | 32                 |                 |                   |                 |
| 15                                                              |                 | 33                   |                 | 15                                                               |                 | 33                 |                 |                   |                 |
| 16                                                              |                 | 34                   |                 | 16                                                               |                 | 34                 |                 |                   |                 |
| 17                                                              |                 | 35                   |                 | 17                                                               |                 | 35                 |                 |                   |                 |
| 18                                                              |                 | 36                   |                 | 18                                                               |                 | 36                 |                 |                   |                 |
| 19                                                              |                 |                      |                 | 19                                                               |                 |                    |                 |                   |                 |
|                                                                 |                 |                      |                 |                                                                  |                 |                    |                 |                   |                 |
| REV:                                                            |                 | ECR/ECN INFORMATION: |                 | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |                 |                    |                 | SHEET No.         |                 |
| <b>X1</b>                                                       |                 | EC No: UCP2009-0952  |                 |                                                                  |                 |                    |                 | - 15 -            |                 |
|                                                                 |                 | DATE: 10/31/2008     |                 |                                                                  |                 |                    |                 |                   |                 |
| DOCUMENT NUMBER:                                                |                 |                      |                 | CREATED / REVISED BY:                                            |                 | CHECKED BY:        |                 | APPROVED BY:      |                 |
| SD- 42377-001                                                   |                 |                      |                 | MKIPPER                                                          |                 | JBELL              |                 | FSMITH            |                 |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                 |                      |                 |                                                                  |                 |                    |                 |                   |                 |

|                     |                 |                                |                 |                     |                 |                    |                 |
|---------------------|-----------------|--------------------------------|-----------------|---------------------|-----------------|--------------------|-----------------|
| A-42377-1270 / 1304 |                 |                                |                 | ✓ A-42377-1305/1339 |                 |                    |                 |
| HEADER NUMBER:      |                 | 42312-0036                     |                 | HEADER NUMBER:      |                 | 42312-0036         |                 |
| PIN NUMBER:         |                 | 42663-BHA154                   |                 | PIN NUMBER:         |                 | 42663-BYA154       |                 |
| PIN LENGTH: L       |                 | .590 / 14.99                   |                 | PIN LENGTH: L       |                 | .650/16.51         |                 |
| MATING LENGTH: M    |                 | .343 / 8.71                    |                 | MATING LENGTH: M    |                 | .394/10.01         |                 |
| GOLD POINT: G       |                 | N/A                            |                 | GOLD POINT: G       |                 | N/A                |                 |
| PIN HEIGHT: Y       |                 | .070 / 1.78                    |                 | PIN HEIGHT: Y       |                 | .050/1.27          |                 |
| PC TAIL LENGTH: P   |                 | .055 +/- .025<br>1.40 +/- 0.64 |                 | PC TAIL LENGTH: P   |                 | .089/2.26          |                 |
| TIN: T              |                 | OVERALL                        |                 | TIN: T              |                 | OVERALL            |                 |
| CKTS:               |                 | 2-36                           |                 | CKTS:               |                 | 2-36               |                 |
| KINKS:              |                 | NONE                           |                 | KINKS:              |                 | NONE               |                 |
| REMOVED BACKWALLS:  |                 | NONE                           |                 | REMOVED BACKWALLS:  |                 | NONE               |                 |
| VOIDED CKTS:        |                 | 2                              |                 | VOIDED CKTS:        |                 | NONE               |                 |
| PACKAGING:          |                 | BULK PK-40873-0041             |                 | PACKAGING:          |                 | BULK PK-40873-0041 |                 |
| CKTS                | MATERIAL NUMBER | CKTS                           | MATERIAL NUMBER | CKTS                | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
| 02                  |                 | 20                             |                 | 02                  | 42377-1305      | 20                 |                 |
| 03                  | 42377-1271      | 21                             |                 | 03                  |                 | 21                 |                 |
| 04                  |                 | 22                             |                 | 04                  |                 | 22                 |                 |
| 05                  |                 | 23                             |                 | 05                  |                 | 23                 |                 |
| 06                  |                 | 24                             |                 | 06                  | 42377-1309      | 24                 |                 |
| 07                  |                 | 25                             |                 | 07                  |                 | 25                 |                 |
| 08                  |                 | 26                             |                 | 08                  |                 | 26                 |                 |
| 09                  |                 | 27                             |                 | 09                  |                 | 27                 |                 |
| 10                  |                 | 28                             |                 | 10                  |                 | 28                 |                 |
| 11                  |                 | 29                             |                 | 11                  |                 | 29                 |                 |
| 12                  |                 | 30                             |                 | 12                  |                 | 30                 |                 |
| 13                  |                 | 31                             |                 | 13                  |                 | 31                 |                 |
| 14                  |                 | 32                             |                 | 14                  |                 | 32                 |                 |
| 15                  |                 | 33                             |                 | 15                  |                 | 33                 |                 |
| 16                  |                 | 34                             |                 | 16                  |                 | 34                 |                 |
| 17                  |                 | 35                             |                 | 17                  |                 | 35                 |                 |
| 18                  |                 | 36                             |                 | 18                  |                 | 36                 |                 |
| 19                  |                 |                                |                 | 19                  |                 |                    |                 |

|                      |                      |                            |              |               |
|----------------------|----------------------|----------------------------|--------------|---------------|
| REV:                 | ECR/ECN INFORMATION: | TITLE:                     |              | SHEET No.     |
| <b>X1</b>            | EC No:               | KK 100 HEADER ASSEMBLY     |              | <b>- 16 -</b> |
|                      | DATE:                | FLAT RIGHT ANGLE BREAKAWAY |              |               |
| DOCUMENT NUMBER:     |                      | CREATED / REVISED BY:      | CHECKED BY:  | APPROVED BY:  |
| <b>SD- 42377-001</b> |                      | <b>MKIPPER</b>             | <b>JBELL</b> | <b>FSMITH</b> |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC

|                                                  |                      |                                          |                                                                                    |
|--------------------------------------------------|----------------------|------------------------------------------|------------------------------------------------------------------------------------|
|                                                  |                      |                                          |                                                                                    |
|                                                  |                      |                                          |                                                                                    |
| ✓ A-42377-1340/1358                              |                      |                                          |                                                                                    |
| HEADER NUMBER:                                   |                      | 42312-0036                               |                                                                                    |
| PIN NUMBER:                                      |                      | 42663-AFB208                             |                                                                                    |
| PIN LENGTH: L                                    |                      | .475/12.07                               |                                                                                    |
| MATING LENGTH: M                                 |                      | .195/4.95                                |                                                                                    |
| GOLD POINT: G                                    |                      | .150/3.81                                |                                                                                    |
| PIN HEIGHT: Y                                    |                      | .058/1.47                                |                                                                                    |
| PC TAIL LENGTH: P                                |                      | .093/2.36                                |                                                                                    |
| TIN: T                                           |                      | .100/2.54                                |                                                                                    |
| CKTS:                                            |                      | 18-36                                    |                                                                                    |
| KINKS:                                           |                      | NONE                                     |                                                                                    |
| REMOVED BACKWALLS:                               |                      | NONE                                     |                                                                                    |
| VOIDED CKTS:                                     |                      | 2, 4, 5, 6, 7, 9, 11, 12, 13, 14, 16, 18 |                                                                                    |
| PACKAGING:                                       |                      | BULK PK-40873-0041                       |                                                                                    |
| CKTS                                             | MATERIAL NUMBER      | CKTS                                     | MATERIAL NUMBER                                                                    |
|                                                  |                      | 20                                       |                                                                                    |
|                                                  |                      | 21                                       |                                                                                    |
|                                                  |                      | 22                                       |                                                                                    |
|                                                  |                      | 23                                       |                                                                                    |
|                                                  |                      | 24                                       |                                                                                    |
|                                                  |                      | 25                                       |                                                                                    |
|                                                  |                      | 26                                       |                                                                                    |
|                                                  |                      | 27                                       |                                                                                    |
|                                                  |                      | 28                                       |                                                                                    |
|                                                  |                      | 29                                       |                                                                                    |
|                                                  |                      | 30                                       |                                                                                    |
|                                                  |                      | 31                                       |                                                                                    |
|                                                  |                      | 32                                       |                                                                                    |
|                                                  |                      | 33                                       |                                                                                    |
|                                                  |                      | 34                                       |                                                                                    |
|                                                  |                      | 35                                       |                                                                                    |
| 18                                               |                      | 36                                       |                                                                                    |
| 19                                               | 42377-1341           |                                          |                                                                                    |
|                                                  |                      |                                          |                                                                                    |
|                                                  |                      |                                          |                                                                                    |
| ✓ A-42377-1359/1393                              |                      |                                          |                                                                                    |
| HEADER NUMBER:                                   |                      | 42312-0036                               |                                                                                    |
| PIN NUMBER:                                      |                      | 42663-CJA154                             |                                                                                    |
| PIN LENGTH: L                                    |                      | .700 / 17.78                             |                                                                                    |
| MATING LENGTH: M                                 |                      | .394/10.01                               |                                                                                    |
| GOLD POINT: G                                    |                      | N/A                                      |                                                                                    |
| PIN HEIGHT: Y                                    |                      | .050/1.27                                |                                                                                    |
| PC TAIL LENGTH: P                                |                      | .135 / 3.43                              |                                                                                    |
| TIN: T                                           |                      | OVERALL                                  |                                                                                    |
| CKTS:                                            |                      | 2-36                                     |                                                                                    |
| KINKS:                                           |                      | PER SMES-42003                           |                                                                                    |
| REMOVED BACKWALLS:                               |                      | NONE                                     |                                                                                    |
| VOIDED CKTS:                                     |                      | NONE                                     |                                                                                    |
| PACKAGING:                                       |                      | BULK PK-40873-0041                       |                                                                                    |
| CKTS                                             | MATERIAL NUMBER      | CKTS                                     | MATERIAL NUMBER                                                                    |
| 02                                               | 42377-1359           | 20                                       |                                                                                    |
| 03                                               |                      | 21                                       |                                                                                    |
| 04                                               |                      | 22                                       |                                                                                    |
| 05                                               |                      | 23                                       |                                                                                    |
| 06                                               | 42377-1363           | 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: |                                          | TITLE:                                                                             |
| <b>X1</b>                                        | EC No: UCP2009-0952  |                                          | <b>KK 100 HEADER ASSEMBLY<br/>         FLAT RIGHT ANGLE<br/>         BREAKAWAY</b> |
|                                                  | DATE: 10/31/2008     |                                          |                                                                                    |
| SHEET No.                                        |                      | <b>- 17 -</b>                            |                                                                                    |
|                                                  |                      |                                          |                                                                                    |
| DOCUMENT NUMBER:                                 |                      | CREATED / REVISED BY:                    | CHECKED BY:                                                                        |
| <b>SD- 42377-001</b>                             |                      | <b>MKIPPER</b>                           | <b>JBELL</b>                                                                       |
| APPROVED BY:                                     |                      | <b>FSMITH</b>                            |                                                                                    |
|                                                  |                      |                                          |                                                                                    |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                      |                                          |                                                                                    |

|                     |                 |                    |                 |
|---------------------|-----------------|--------------------|-----------------|
|                     |                 |                    |                 |
| ✓ A-42377-1394/1428 |                 |                    |                 |
| HEADER NUMBER:      |                 | 42312-0036         |                 |
| PIN NUMBER:         |                 | 42663-CJA154       |                 |
| PIN LENGTH: L       |                 | .700 / 17.78       |                 |
| MATING LENGTH: M    |                 | .394/10.01         |                 |
| GOLD POINT: G       |                 | N/A                |                 |
| PIN HEIGHT: Y       |                 | .050/1.27          |                 |
| PC TAIL LENGTH: P   |                 | .135 / 3.43        |                 |
| TIN: T              |                 | OVERALL            |                 |
| CKTS:               |                 | 2-36               |                 |
| KINKS:              |                 | NONE               |                 |
| REMOVED BACKWALLS:  |                 | NONE               |                 |
| VOIDED CKTS:        |                 | NONE               |                 |
| PACKAGING:          |                 | BULK PK-40873-0041 |                 |
| CKTS                | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
| 02                  | 42377-1394      | 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                  |                 |                    |                 |

|                    |                 |                    |                 |
|--------------------|-----------------|--------------------|-----------------|
| ✓ A-42377-1429     |                 |                    |                 |
| HEADER NUMBER:     |                 | 42312-0036         |                 |
| PIN NUMBER:        |                 | 42663-ECA154       |                 |
| PIN LENGTH: L      |                 | .880 / 22.35       |                 |
| MATING LENGTH: M   |                 | .600/15.24         |                 |
| GOLD POINT: G      |                 | N/A                |                 |
| PIN HEIGHT: Y      |                 | .050/1.27          |                 |
| PC TAIL LENGTH: P  |                 | .116 / 2.95        |                 |
| TIN: T             |                 | OVERALL            |                 |
| CKTS:              |                 | 5-36               |                 |
| KINKS:             |                 | NONE               |                 |
| REMOVED BACKWALLS: |                 | NONE               |                 |
| VOIDED CKTS:       |                 | 2,3,4              |                 |
| PACKAGING:         |                 | BULK PK-40873-0041 |                 |
| CKTS               | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
|                    |                 | 20                 |                 |
|                    |                 | 21                 |                 |
|                    |                 | 22                 |                 |
| 05                 | 42377-1429      | 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                 |                 |                    |                 |

|                         |                             |                                                                  |                    |
|-------------------------|-----------------------------|------------------------------------------------------------------|--------------------|
| REV:                    | <u>ECR/ECN INFORMATION:</u> | <u>TITLE:</u>                                                    | <u>SHEET No.</u>   |
| <b>X1</b>               | EC No: <b>UCP2009-0952</b>  | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> | <b>- 18 -</b>      |
|                         | DATE: <b>10/31/2008</b>     |                                                                  |                    |
| <u>DOCUMENT NUMBER:</u> |                             | <u>CREATED / REVISED BY:</u>                                     | <u>CHECKED BY:</u> |
| <b>SD- 42377-001</b>    |                             | <b>MKIPPER</b>                                                   | <b>JBELL</b>       |
|                         |                             | <u>APPROVED BY:</u>                                              |                    |
|                         |                             | <b>FSMITH</b>                                                    |                    |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC