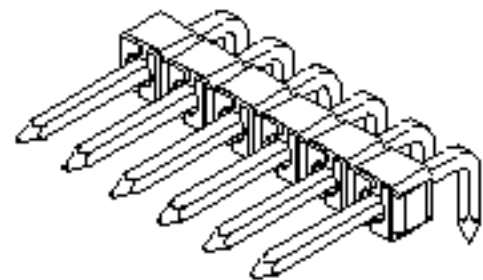


PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0022289101](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch KK® Header, Breakaway, Right Angle Surface Mount Compatible, 10 Circuits, Tin (Sn) Plating, Mating Pin Length 8.23mm (.324"), with Kinked PC Tails



Series

image - Reference only

**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) 10  
Circuits (maximum) 10  
Color - Resin Black  
Durability (mating cycles max) 25  
Flammability 94V-0  
Glow-Wire Compliant No  
Lock to Mating Part None  
Material - Metal Brass  
Material - Plating Mating Tin  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
Number of Rows 1  
Orientation Right Angle  
PC Tail Length (in) 0.135 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) 100  
Plating min: Mating (µm) 2.5  
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

**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 | 42377-0185 |
|-----------------|------------|

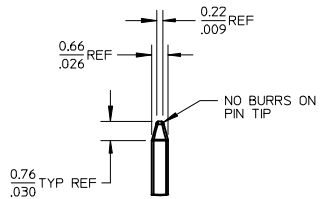
**Reference - Drawing Numbers**

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

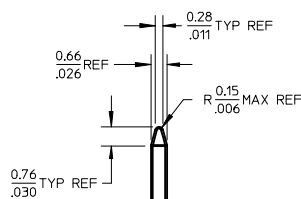
This document was generated on 04/12/2010

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

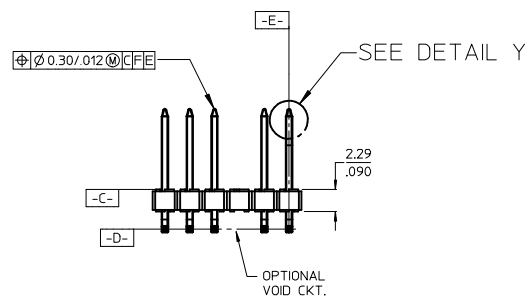
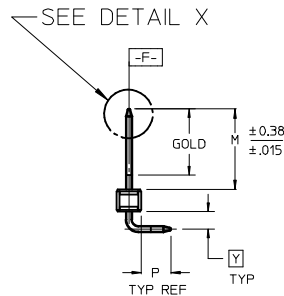
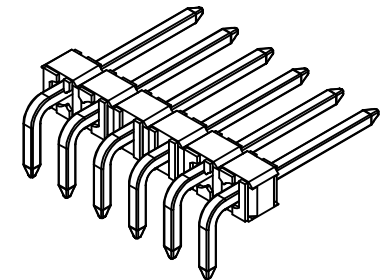
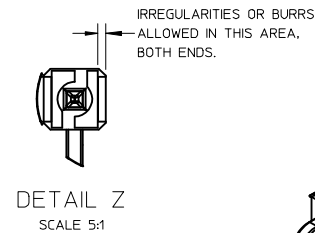
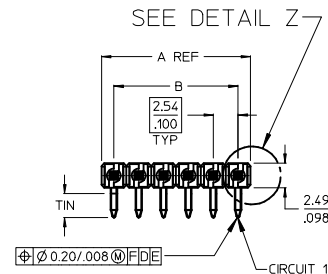
|          | 10            | 9             | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----------|---------------|---------------|---|---|---|---|---|---|---|---|
| NO. CKTS | DIM. A        | DIM. B        |   |   |   |   |   |   |   |   |
| 2        | 5.08<br>200   | 2.54<br>100   |   |   |   |   |   |   |   |   |
| 3        | 7.62<br>300   | 5.08<br>200   |   |   |   |   |   |   |   |   |
| 4        | 10.16<br>400  | 7.62<br>300   |   |   |   |   |   |   |   |   |
| 5        | 12.70<br>500  | 10.16<br>400  |   |   |   |   |   |   |   |   |
| 6        | 15.24<br>600  | 12.70<br>500  |   |   |   |   |   |   |   |   |
| 7        | 17.78<br>700  | 15.24<br>600  |   |   |   |   |   |   |   |   |
| 8        | 20.32<br>800  | 17.78<br>700  |   |   |   |   |   |   |   |   |
| 9        | 22.86<br>900  | 20.32<br>800  |   |   |   |   |   |   |   |   |
| 10       | 25.40<br>1000 | 22.86<br>900  |   |   |   |   |   |   |   |   |
| 11       | 27.94<br>1100 | 25.40<br>1000 |   |   |   |   |   |   |   |   |
| 12       | 30.48<br>1200 | 27.94<br>1100 |   |   |   |   |   |   |   |   |
| 13       | 33.02<br>1300 | 30.48<br>1200 |   |   |   |   |   |   |   |   |
| 14       | 35.56<br>1400 | 33.02<br>1300 |   |   |   |   |   |   |   |   |
| 15       | 38.10<br>1500 | 35.56<br>1400 |   |   |   |   |   |   |   |   |
| 16       | 40.64<br>1600 | 38.10<br>1500 |   |   |   |   |   |   |   |   |
| 17       | 43.18<br>1700 | 40.64<br>1600 |   |   |   |   |   |   |   |   |
| 18       | 45.72<br>1800 | 43.18<br>1700 |   |   |   |   |   |   |   |   |
| 19       | 48.26<br>1900 | 45.72<br>1800 |   |   |   |   |   |   |   |   |
| 20       | 50.80<br>2000 | 48.26<br>1900 |   |   |   |   |   |   |   |   |
| 21       | 53.34<br>2100 | 50.80<br>2000 |   |   |   |   |   |   |   |   |
| 22       | 55.88<br>2200 | 53.34<br>2100 |   |   |   |   |   |   |   |   |
| 23       | 58.42<br>2300 | 55.88<br>2200 |   |   |   |   |   |   |   |   |
| 24       | 60.96<br>2400 | 58.42<br>2300 |   |   |   |   |   |   |   |   |
| 25       | 63.50<br>2500 | 60.96<br>2400 |   |   |   |   |   |   |   |   |
| 26       | 66.04<br>2600 | 63.50<br>2500 |   |   |   |   |   |   |   |   |
| 27       | 68.58<br>2700 | 66.04<br>2600 |   |   |   |   |   |   |   |   |
| 28       | 71.12<br>2800 | 68.58<br>2700 |   |   |   |   |   |   |   |   |
| 29       | 73.66<br>2900 | 71.12<br>2800 |   |   |   |   |   |   |   |   |
| 30       | 76.20<br>3000 | 73.66<br>2900 |   |   |   |   |   |   |   |   |
| 31       | 78.74<br>3100 | 76.20<br>3000 |   |   |   |   |   |   |   |   |
| 32       | 81.28<br>3200 | 78.74<br>3100 |   |   |   |   |   |   |   |   |
| 33       | 83.82<br>3300 | 81.28<br>3200 |   |   |   |   |   |   |   |   |
| 34       | 86.36<br>3400 | 83.82<br>3300 |   |   |   |   |   |   |   |   |
| 35       | 88.90<br>3500 | 86.36<br>3400 |   |   |   |   |   |   |   |   |
| 36       | 91.44<br>3600 | 88.90<br>3500 |   |   |   |   |   |   |   |   |



DETAIL X  
SCALE 5:1  
SEE NOTE 10

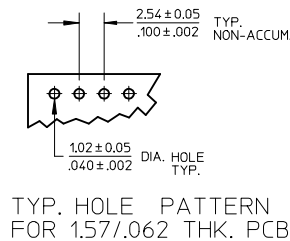


DETAIL Y  
SCALE 5:1  
SEE NOTE 10



- 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 PLATINGS.
  - 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.

|       |     |
|-------|-----|
| 2-*   | X1  |
| 1     | X1  |
| SHEET | REV |



|                                                                                                                             |                               |                                                                                                 |  |                           |  |                              |  |                                                                  |  |                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|--|---------------------------|--|------------------------------|--|------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|
| ADD PN 42377-1429<br>EC NO: UCP2009-0952<br>DRWN: HK/PPR 2008/10/27<br>CHKD: J.BELL 2008/10/30<br>APPR: F.S.MITH 2008/10/31 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | 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 |  | MOLEX INCORPORATED                                                                                                            |  |
|                                                                                                                             |                               | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .010<br>2 PLACES ± 0.25 ± .015<br>1 PLACE ± 0.38 ± --- |  | CHECKED BY<br>SAMIEC      |  | DATE<br>11/24/03             |  | APPROVED BY<br>MARGULIS                                          |  | DATE<br>11/24/03                                                                                                              |  |
|                                                                                                                             |                               | ANGULAR ± 1/2°                                                                                  |  | MATERIAL NO.<br>SEE CHART |  | DOCUMENT NO.<br>SD-42377-001 |  | SHEET NO.<br>1 OF *                                              |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |

|                                                  |                    |                                   |                    |                    |                                                                  |                       |                    |               |                     |                    |               |
|--------------------------------------------------|--------------------|-----------------------------------|--------------------|--------------------|------------------------------------------------------------------|-----------------------|--------------------|---------------|---------------------|--------------------|---------------|
|                                                  |                    |                                   |                    |                    |                                                                  |                       |                    |               |                     |                    |               |
| ✓ 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<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                                               | 22-28-8020         | 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:                                             |                    | <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>- 2 -</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-42377-0072 / 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 NUMBER | ENG NUMBER                        | CKTS               | MATERIAL NUMBER | ENG NUMBER                                                       | CKTS                  | MATERIAL NUMBER    | ENG NUMBER | CKTS                | MATERIAL NUMBER  | ENG 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>                                        |                 | <u>EC No:</u> <b>UCP2009-0952</b> |                    |                 | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |                       |                    |            |                     | <b>- 3 -</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-42377-0142 / 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: <b>UCP2009-0952</b> | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> | <b>- 4 -</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-42377-0212/0246                              |                    |               |                      |                    |               | ✓ 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<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                                               | 22-28-9022         | 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: UCP2009-0952  |                    |               | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |                    |               | <b>- 5 -</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-42377-0282 / 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           |      |                 |                                                                                    |  |             |  |              |              |  |
| 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>- 7 -</b> |  |
|                                                                 |                 | 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-42377-0387/0421 |                 |                    |      |                 |            |
|---------------------|-----------------|--------------------|------|-----------------|------------|
| 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         |      |                 |            |

|                                                                 |                                                                                                    |                    |                                                                                     |                    |                                    |                                      |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|--------------------|------------------------------------|--------------------------------------|
|                                                                 |                                                                                                    |                    |                                                                                     |                    |                                    |                                      |
| ✓ 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      |                    |                 |

|                       |                 |                    |                 |
|-----------------------|-----------------|--------------------|-----------------|
| ✓ A-42377-0779 / 0813 |                 |                    |                 |
| HEADER NUMBER:        |                 | 42312-0036         |                 |
| PIN NUMBER:           |                 | 42663-ANA154       |                 |
| PIN LENGTH: L         |                 | .510/12.95         |                 |
| MATING LENGTH: M      |                 | .134/3.40          |                 |
| GOLD POINT: G         |                 | N/A                |                 |
| PIN HEIGHT: Y         |                 | .060/1.52          |                 |
| PC TAIL LENGTH: P     |                 | .200/5.08          |                 |
| 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                    | 42377-0779      | 20                 | 42377-0797      |
| 03                    | 42377-0780      | 21                 | 42377-0798      |
| 04                    | 42377-0781      | 22                 | 42377-0799      |
| 05                    | 42377-0782      | 23                 | 42377-0800      |
| 06                    | 42377-0783      | 24                 | 42377-0801      |
| 07                    | 42377-0784      | 25                 | 42377-0802      |
| 08                    | 42377-0785      | 26                 | 42377-0803      |
| 09                    | 42377-0786      | 27                 | 42377-0804      |
| 10                    | 42377-0787      | 28                 | 42377-0805      |
| 11                    | 42377-0788      | 29                 | 42377-0806      |
| 12                    | 42377-0789      | 30                 | 42377-0807      |
| 13                    | 42377-0790      | 31                 | 42377-0808      |
| 14                    | 42377-0791      | 32                 | 42377-0809      |
| 15                    | 42377-0792      | 33                 | 42377-0810      |
| 16                    | 42377-0793      | 34                 | 42377-0811      |
| 17                    | 42377-0794      | 35                 | 42377-0812      |
| 18                    | 42377-0795      | 36                 | 42377-0813      |
| 19                    | 42377-0796      |                    |                 |

|                         |                                   |                                                                  |                    |
|-------------------------|-----------------------------------|------------------------------------------------------------------|--------------------|
| REV:                    | <u>ECR/ECN INFORMATION:</u>       | <u>TITLE:</u>                                                    |                    |
| <b>X1</b>               | <u>EC No:</u> <b>UCP2009-0952</b> | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> | <u>SHEET No.</u>   |
|                         | <u>DATE:</u> <b>10/31/2008</b>    |                                                                  | <b>- 9 -</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-42377-0864 / 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:                                             |                 |  |  | 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>- 10 -</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-42377-0928 / 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:                                             |                 | <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>- 11 -</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-42377-0963/ 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 |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 02                                               |                 |  |  | 20                   | 42377-1015      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 03                                               | 42377-0998      |  |  | 21                   | 42377-1016      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 04                                               | 42377-0999      |  |  | 22                   | 42377-1017      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 05                                               | 42377-1000      |  |  | 23                   | 42377-1018      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 06                                               | 42377-1001      |  |  | 24                   | 42377-1019      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 07                                               | 42377-1002      |  |  | 25                   | 42377-1020      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 08                                               | 42377-1003      |  |  | 26                   | 42377-1021      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 09                                               | 42377-1004      |  |  | 27                   | 42377-1022      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 10                                               | 42377-1005      |  |  | 28                   | 42377-1023      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 11                                               | 42377-1006      |  |  | 29                   | 42377-1024      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 12                                               | 42377-1007      |  |  | 30                   | 42377-1025      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 13                                               | 42377-1008      |  |  | 31                   | 42377-1026      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 14                                               | 42377-1009      |  |  | 32                   | 42377-1027      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 15                                               | 42377-1010      |  |  | 33                   | 42377-1028      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 16                                               | 42377-1011      |  |  | 34                   | 42377-1029      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 17                                               | 42377-1012      |  |  | 35                   | 42377-1030      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 18                                               | 42377-1013      |  |  | 36                   | 42377-1031      |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| 19                                               | 42377-1014      |  |  |                      |                 |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
|                                                  |                 |  |  |                      |                 |  |  |                                                                  |  |  |  |                                       |  |  |  |              |  |  |  |
| REV:                                             |                 |  |  | ECR/ECN INFORMATION: |                 |  |  | <b>KK 100 HEADER ASSEMBLY<br/>FLAT RIGHT ANGLE<br/>BREAKAWAY</b> |  |  |  | <u>SHEET No.</u><br><br><b>- 12 -</b> |  |  |  |              |  |  |  |
| <b>X1</b>                                        |                 |  |  | EC No:               |                 |  |  |                                                                  |  |  |  |                                       |  |  |  | UCP2009-0952 |  |  |  |
|                                                  |                 |  |  | 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-42377-1101/1130                                |                                   |                              |                                                                  |
| 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      |                    |                 |



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|--------------------|-----------------|--------------------|-----------------|
|                    |                 |                    |                 |
| A-42377-1067/1100  |                 |                    |                 |
| HEADER NUMBER:     |                 | 42312-0036         |                 |
| PIN NUMBER:        |                 | 42663-ATB208       |                 |
| PIN LENGTH: L      |                 | .530 / 13.46       |                 |
| MATING LENGTH: M   |                 | .244 / 6.20        |                 |
| GOLD POINT: G      |                 | .140 / 3.56        |                 |
| PIN HEIGHT: Y      |                 | .050 / 1.27        |                 |
| PC TAIL LENGTH: P  |                 | .120 / 3.05        |                 |
| TIN: T             |                 | .135 / 3.43        |                 |
| CKTS:              |                 | 3-36               |                 |
| KINKS:             |                 | NONE               |                 |
| REMOVED BACKWALLS: |                 | NONE               |                 |
| VOIDED CKTS:       |                 | 3                  |                 |
| PACKAGING:         |                 | BULK PK-40873-0041 |                 |
| CKTS               | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
| 02                 |                 | 20                 |                 |
| 03                 |                 | 21                 |                 |
| 04                 |                 | 22                 |                 |
| 05                 |                 | 23                 |                 |
| 06                 |                 | 24                 |                 |
| 07                 |                 | 25                 |                 |
| 08                 |                 | 26                 |                 |
| 09                 |                 | 27                 |                 |
| 10                 |                 | 28                 |                 |
| 11                 | 42377-1075      | 29                 |                 |
| 12                 |                 | 30                 |                 |
| 13                 |                 | 31                 |                 |
| 14                 |                 | 32                 |                 |
| 15                 |                 | 33                 |                 |
| 16                 |                 | 34                 |                 |
| 17                 |                 | 35                 |                 |
| 18                 |                 | 36                 |                 |
| 19                 |                 |                    |                 |

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|--------------------|-----------------|--------------------|-----------------|
| A-42377-1235/1269  |                 |                    |                 |
| HEADER NUMBER:     |                 | 42312-0036         |                 |
| PIN NUMBER:        |                 | 42663-BXB228       |                 |
| PIN LENGTH: L      |                 | .645/16.48         |                 |
| 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:             |                 | NONE               |                 |
| REMOVED BACKWALLS: |                 | NONE               |                 |
| VOIDED CKTS:       |                 | NONE               |                 |
| PACKAGING:         |                 | BULK PK-40873-0041 |                 |
| CKTS               | MATERIAL NUMBER | CKTS               | MATERIAL NUMBER |
| 02                 | 42377-1235      | 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                 |                 |                    |                 |

|                         |                             |                                                                  |                    |
|-------------------------|-----------------------------|------------------------------------------------------------------|--------------------|
| 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>- 15 -</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

|                          |                 |                                                            |                 |
|--------------------------|-----------------|------------------------------------------------------------|-----------------|
|                          |                 |                                                            |                 |
| A-42377-1270 / 1304      |                 |                                                            |                 |
| HEADER NUMBER:           |                 | 42312-0036                                                 |                 |
| PIN NUMBER:              |                 | 42663-BHA154                                               |                 |
| PIN LENGTH: L            |                 | .590 / 14.99                                               |                 |
| MATING LENGTH: M         |                 | .343 / 8.71                                                |                 |
| GOLD POINT: G            |                 | N/A                                                        |                 |
| PIN HEIGHT: Y            |                 | .070 / 1.78                                                |                 |
| <b>PC TAIL LENGTH: P</b> |                 | <b><u>.055 +/- .025</u></b><br><b><u>1.40 +/- 0.64</u></b> |                 |
| TIN: T                   |                 | OVERALL                                                    |                 |
| CKTS:                    |                 | 2-36                                                       |                 |
| KINKS:                   |                 | NONE                                                       |                 |
| REMOVED BACKWALLS:       |                 | NONE                                                       |                 |
| VOIDED CKTS:             |                 | 2                                                          |                 |
| PACKAGING:               |                 | BULK PK-40873-0041                                         |                 |
| CKTS                     | MATERIAL NUMBER | CKTS                                                       | MATERIAL NUMBER |
| 02                       |                 | 20                                                         |                 |
| 03                       | 42377-1271      | 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-42377-1305/1339 |                 |                    |                 |
| HEADER NUMBER:      |                 | 42312-0036         |                 |
| PIN NUMBER:         |                 | 42663-BYA154       |                 |
| PIN LENGTH: L       |                 | .650/16.51         |                 |
| MATING LENGTH: M    |                 | .394/10.01         |                 |
| GOLD POINT: G       |                 | N/A                |                 |
| PIN HEIGHT: Y       |                 | .050/1.27          |                 |
| PC TAIL LENGTH: P   |                 | .089/2.26          |                 |
| 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                  | 42377-1305      | 20                 |                 |
| 03                  |                 | 21                 |                 |
| 04                  |                 | 22                 |                 |
| 05                  |                 | 23                 |                 |
| 06                  | 42377-1309      | 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>- 16 -</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

|                                                                 |                      |                                                                                    |                 |               |
|-----------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------|-----------------|---------------|
|                                                                 |                      |                                                                                    |                 |               |
|                                                                 |                      |                                                                                    |                 |               |
| ✓ 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> |                 | SHEET No.     |
|                                                                 | DATE: 10/31/2008     |                                                                                    |                 | - 17 -        |
| 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-42377-1394/1428 |                 |                    |                 |
| 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