

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0026482106](#)
Status: **Active**
Description: 3.96mm (.156") Pitch KK® Header, Breakaway, Right Angle, with Friction Lock, 10 Circuits, Gold (Au) Plating

Documents:

3D Model	Product Specification PS-08-50 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)
Packaging Specification (PDF)	

Agency Certification

CSA	LR19980
UL	E29179

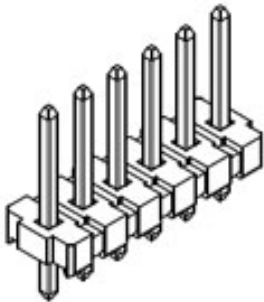
General

Product Family	PCB Headers
Series	41672
Application	Wire-to-Board
Product Name	KK®

Physical

Breakaway	Yes
Circuits (Loaded)	10
Circuits (maximum)	10
Color - Resin	Black
Durability (mating cycles max)	50
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	Polyester
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.212 In
PC Tail Length (mm)	5.38 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.156 In
Pitch - Mating Interface (mm)	3.96 mm
Plating min: Mating (µin)	20
Plating min: Mating (µm)	0.5
Plating min: Termination (µin)	20
Plating min: Termination (µm)	0.5
Polarized to Mating Part	No
Polarized to PCB	Yes
Shrouded	No
Stackable	No
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole

Electrical



Series

image - Reference only

EU RoHS

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

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
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

[41672Series](#)

Mates With

[3069](#) , [3215](#) , [2139](#) , [2145](#) , [6442](#) , [7674](#) ,
[7675](#) , [41695](#) , [41815](#)

Current - Maximum per Contact	7A
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	A-41672-A10A501
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Reference - Drawing Numbers

Product Specification	PS-08-50
Sales Drawing	SD-41672-001, SD-41672-002

This document was generated on 03/22/2010

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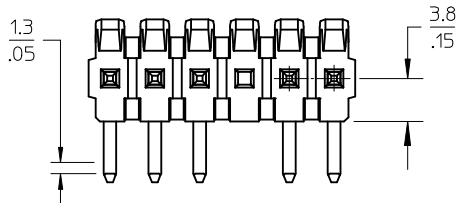
4

3

2

1

CENTERLINE OF PIN IN AREA SHOWN NOT TO VARY FROM CENTERLINE OF PIN AT -D- BY MORE THAN 0.13/.005 IN ANY DIRECTION.



A-41672- * N * *-*

OPTION - PACKING
A= 2161 PIN- BULK PACK
B= 43294 PIN- BULK PACK

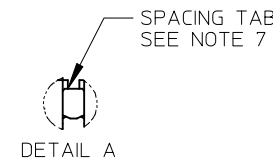
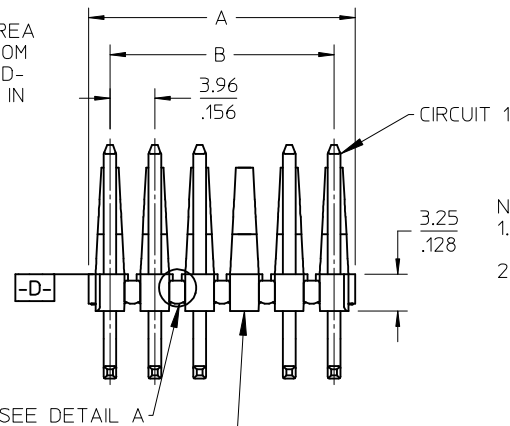
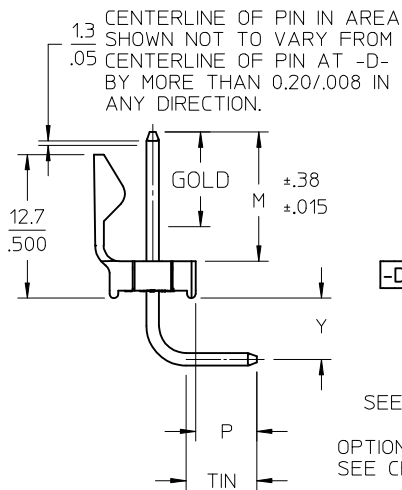
NO OF CKTS

DIM M,L,P

PLATING

VOID LOCATIONS
BLANK=NO VOIDS
NO=CKT NO VOIDED
MULT-VOIDS=51 UP

CIRCUIT	A	B
2	6.78/7.87 .267/.310	3.96 .156
3	10.74/11.84 .423/.466	7.92 .312
4	14.71/15.80 .579/.622	11.89 .468
5	18.67/19.76 .735/.778	15.85 .624
6	22.63/23.72 .891/.934	19.81 .780
7	26.59/27.69 1.047/1.090	23.77 .936
8	30.56/31.65 1.203/1.246	27.74 1.092
9	34.52/35.61 1.359/1.402	31.70 1.248
10	38.48/39.57 1.515/1.558	35.66 1.404
11	42.44/43.54 1.671/1.714	39.62 1.560
12	46.41/47.50 1.827/1.870	43.59 1.716
13	50.37/51.46 1.983/2.026	47.55 1.872
14	54.33/55.42 2.139/2.182	51.51 2.028
15	58.29/59.39 2.295/2.338	55.47 2.184
16	62.26/63.35 2.451/2.494	59.44 2.340
17	66.22/67.31 2.607/2.650	63.40 2.496
18	70.18/71.27 2.763/2.806	67.36 2.652
19	74.14/75.23 2.919/2.962	71.32 2.808
20	78.11/79.20 3.075/3.118	75.29 2.964
21	82.07/83.16 3.231/3.274	79.25 3.120
22	86.03/87.12 3.387/3.430	83.21 3.276
23	89.94/91.08 3.541/3.586	87.17 3.432
24	93.85/95.00 3.695/3.740	91.14 3.588



SEE DETAIL A

OPTIONAL VOIDED CKT.
SEE CHART FOR LOCATIONS

- NOTES:
- MATERIAL: HEADER: POLYESTER, 94V-0, MOLDED BLACK
PIN: BRASS
 - FINISH:
(102) OVERALL TIN: 0.00508/.000200 MIN OVER
0.00254/.000100 MIN COPPER.
(154) OVERALL TIN: 0.00254/.000100 MIN OVER
0.00127/.000050 MIN NICKEL.
(208) SELECT GOLD: 0.00038/.000015 MIN,
*SELECT TIN: 0.00254/.000100 MIN,
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
(228) SELECT GOLD: 0.00076/.000030 MIN,
*SELECT TIN: 0.00254/.000100 MIN,
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
(501) OVERALL GOLD: 0.00051/.000020 MIN OVER
0.00076/.000030 MIN NICKEL.
(503) OVERALL GOLD: 0.00076/.000030 MIN OVER
0.00127/.000050 MIN NICKEL.
*THE PRIMARY SHIPPING CARTON WILL BE LABELED *COMPLIANT
TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE
2000/53/EC*. CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT
WITH TIN/LEAD PLATINGS.
 - PRODUCT SPECIFICATION: PS-08-50.
 - PACKAGING INFORMATION: SEE TABLES
 - SOLDERABILITY: PER SMES-152.
 - PIN PUSH-OUT FORCE: PRIOR TO SOLDERING, A 3 LB. MINIMUM
FORCE IN EITHER DIRECTION SHALL BE REQUIRED TO PUSH THE
PIN OUT OF THE HEADER.
 - PARTS ARE STACKABLE END TO END ON 3.96/.156 CENTERS.(SPACING
TABS MUST BE REMOVED ON CIRCUIT SIZES 1-23 BEFORE PARTS
ARE STACKABLE.
 - PARTS WILL CONFORM TO CLASS B REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.

3.96±0.05
.156±.002
TYP

1.70
.067
DIA.
TYP

PCB LAYOUT:COMPONENT SIDE
RECOMMENDED PCB THICKNESS:
1.57±.18)/.062±.007

2-*	AB4
1	AB4
SHEET	REV

ADD 41672-0228	QUALITY SYMBOLS
EC NO: UCP2009-2938	▼=0
DRWN:MKIPPER 2009/06/12	▽=0
CHKD:SSOUSEK 2009/06/15	
APPR:FSMTH 2009/06/15	
DESCRIPTION	
REV	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm
	INCH
4 PLACES	± ---
3 PLACES	± ---
2 PLACES	± 0.25
1 PLACE	± 0.38
ANGULAR ±1/2°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM/IN	
DRAWN BY	DATE
JSCHAFER	12-5-03
CHECKED BY	DATE
KSAMIEC	12-12-03
APPROVED BY	DATE
MARGULIS	12-16-03
MATERIAL NO.	
SEE CHART	
SIZE	
A	

SCALE 2:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
TITLE KK .156 HEADER ASSEMBLY FRICTION LOCK BREAKAWAY RIGHT ANGLE		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-41672-001		SHEET NO. 1 OF *
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

<table border="1"> <tr><td>Header No:</td><td>41186-A-AN</td></tr> <tr><td>Pin No:</td><td>2161-37(102)</td></tr> <tr><td>Pin Length L</td><td>1.100 / 27.90</td></tr> <tr><td>Mating M</td><td>.450 / 11.43</td></tr> <tr><td>Gold:</td><td>NA</td></tr> <tr><td>Bend Height: Y</td><td>.213 / 5.41</td></tr> <tr><td>PC Tail P</td><td>.212 / 5.38</td></tr> <tr><td>Tin:</td><td>OVERALL</td></tr> <tr><td>Pack Per</td><td>PK-41672-001</td></tr> </table>				Header No:	41186-A-AN	Pin No:	2161-37(102)	Pin Length L	1.100 / 27.90	Mating M	.450 / 11.43	Gold:	NA	Bend Height: Y	.213 / 5.41	PC Tail P	.212 / 5.38	Tin:	OVERALL	Pack Per	PK-41672-001	<table border="1"> <tr><td>Header No:</td><td>41186-A-AN</td></tr> <tr><td>Pin No:</td><td>43294-0569</td></tr> <tr><td>Pin Length L</td><td>1.100 / 27.90</td></tr> <tr><td>Mating M</td><td>.450 / 11.43</td></tr> <tr><td>Gold:</td><td>.270 / 6.86</td></tr> <tr><td>Bend Height: Y</td><td>.213 / 5.41</td></tr> <tr><td>PC Tail P</td><td>.212 / 5.38</td></tr> <tr><td>Tin:</td><td>.200 / 5.08</td></tr> <tr><td>Pack Per</td><td>PK-41672-001</td></tr> </table>				Header No:	41186-A-AN	Pin No:	43294-0569	Pin Length L	1.100 / 27.90	Mating M	.450 / 11.43	Gold:	.270 / 6.86	Bend Height: Y	.213 / 5.41	PC Tail P	.212 / 5.38	Tin:	.200 / 5.08	Pack Per	PK-41672-001	<table border="1"> <tr><td>Header No:</td><td>41186-A-AN</td></tr> <tr><td>Pin No:</td><td>43294-0570</td></tr> <tr><td>Pin Length L</td><td>1.100 / 27.90</td></tr> <tr><td>Mating M</td><td>.450 / 11.43</td></tr> <tr><td>Gold:</td><td>.270 / 6.86</td></tr> <tr><td>Bend Height: Y</td><td>.213 / 5.41</td></tr> <tr><td>PC Tail P</td><td>.212 / 5.38</td></tr> <tr><td>Tin:</td><td>.200 / 5.08</td></tr> <tr><td>Pack Per</td><td>PK-41672-001</td></tr> </table>				Header No:	41186-A-AN	Pin No:	43294-0570	Pin Length L	1.100 / 27.90	Mating M	.450 / 11.43	Gold:	.270 / 6.86	Bend Height: Y	.213 / 5.41	PC Tail P	.212 / 5.38	Tin:	.200 / 5.08	Pack Per	PK-41672-001	<table border="1"> <tr><td>Header No:</td><td>41186-A-AN</td></tr> <tr><td>Pin No:</td><td>2161-37(501)</td></tr> <tr><td>Pin Length L</td><td>1.100 / 27.90</td></tr> <tr><td>Mating M</td><td>.450 / 11.43</td></tr> <tr><td>Gold:</td><td>OVERALL</td></tr> <tr><td>Bend Height: Y</td><td>.213 / 5.41</td></tr> <tr><td>PC Tail P</td><td>.212 / 5.38</td></tr> <tr><td>Tin:</td><td>NA</td></tr> <tr><td>Pack Per</td><td>PK-41672-001</td></tr> </table>				Header No:	41186-A-AN	Pin No:	2161-37(501)	Pin Length L	1.100 / 27.90	Mating M	.450 / 11.43	Gold:	OVERALL	Bend Height: Y	.213 / 5.41	PC Tail P	.212 / 5.38	Tin:	NA	Pack Per	PK-41672-001
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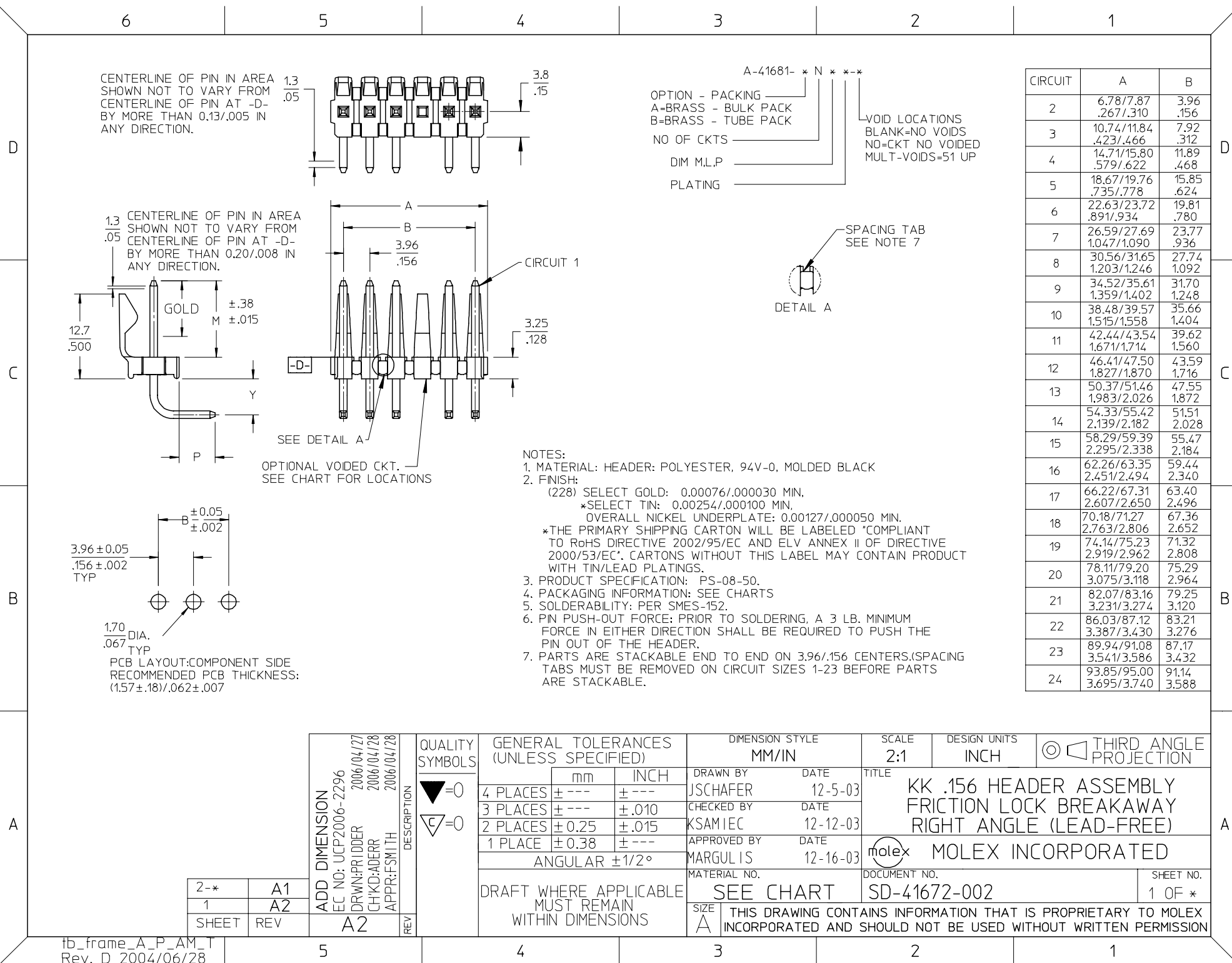
REV:	ECR/ECN INFORMATION:		TITLE:	KK 156 HEADER ASSEMBLY FRICTION LOCK BREAKAWAY RIGHT ANGLE	SHEET No.
	EC No.: UCP2009-2938				
	DATE: 6/15/2009				
DOCUMENT NUMBER:			CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD- 41672 -001			MKIPPER	SSOUSEK	FSMITH

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Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number																																																																							
2	026582021	A-41672-A02C102			41672-0088	A-41672-A02A503	026486024	A-41672-A02B102																																																																							
3	41672-0050	A-41672-A03C102			41672-0089	A-41672-A03A503	026486034	A-41672-A03B102																																																																							
4	026582041	A-41672-A04C102			41672-0090	A-41672-A04A503	026486044	A-41672-A04B102																																																																							
5	41672-0051	A-41672-A05C102			41672-0091	A-41672-A05A503	026486054	A-41672-A05B102																																																																							
6	41672-0052	A-41672-A06C102			41672-0092	A-41672-A06A503	026486064	A-41672-A06B102																																																																							
7	41672-0053	A-41672-A07C102			41672-0093	A-41672-A07A503	026486074	A-41672-A07B102																																																																							
8	026582081	A-41672-A08C102			41672-0094	A-41672-A08A503	026486084	A-41672-A08B102																																																																							
9	41672-0054	A-41672-A09C102			41672-0095	A-41672-A09A503	026486094	A-41672-A09B102																																																																							
10	41672-0055	A-41672-A10C102			026586101	A-41672-A10A503	026486104	A-41672-A10B102																																																																							
11	41672-0056	A-41672-A11C102			41672-0096	A-41672-A11A503	026486114	A-41672-A11B102																																																																							
12	41672-0057	A-41672-A12C102			026586121	A-41672-A12A503	026486124	A-41672-A12B102																																																																							
13	41672-0058	A-41672-A13C102			41672-0097	A-41672-A13A503	026486134	A-41672-A13B102																																																																							
14	41672-0059	A-41672-A14C102			41672-0098	A-41672-A14A503	026486144	A-41672-A14B102																																																																							
15	41672-0060	A-41672-A15C102			41672-0099	A-41672-A15A503	026486154	A-41672-A15B102																																																																							
16	41672-0061	A-41672-A16C102			41672-0100	A-41672-A16A503	026486164	A-41672-A16B102																																																																							
17	41672-0062	A-41672-A17C102			41672-0101	A-41672-A17A503	026486174	A-41672-A17B102																																																																							
18	41672-0063	A-41672-A18C102			41672-0102	A-41672-A18A503	026486184	A-41672-A18B102																																																																							
19	41672-0064	A-41672-A19C102			41672-0103	A-41672-A19A503	026486194	A-41672-A19B102																																																																							
20	41672-0065	A-41672-A20C102			41672-0104	A-41672-A20A503	026486204	A-41672-A20B102																																																																							
21	41672-0066	A-41672-A21C102			41672-0105	A-41672-A21A503	026486214	A-41672-A21B102																																																																							
22	41672-0067	A-41672-A22C102			026586221	A-41672-A22A503	026486224	A-41672-A22B102																																																																							
23	41672-0068	A-41672-A23C102			41672-0106	A-41672-A23A503	026486234	A-41672-A23B102																																																																							
24	026582241	A-41672-A24C102			41672-0107	A-41672-A24A503	026486244	A-41672-A24B102																																																																							

REV:	ECR/ECN INFORMATION:		TITLE:	KK 156 HEADER ASSEMBLY FRICTION LOCK BREAKAWAY RIGHT ANGLE	SHEET No.
	EC No.: UCP2009-2938				
	DATE: 6/15/2009				
DOCUMENT NUMBER:			CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD- 41672 -001			MKIPPER	SSOUSEK	FSMITH

	Header No:	41186-A-AN	Header No:	41186-A-AN	Header No:	41186-A-AN	Header No:	41186-A-AN
	Pin No:	2161-96(501)	Pin No:	2161-37(501)	Pin No:	2161-19(102)	Pin No:	2161-19(102)
	Pin Length L	1.531 / 38.89	Pin Length L	1.100 / 27.90	Pin Length L	1.032 / 26.21	Pin Length L	1.032 / 26.21
	Mating M	.500 / 12.70	Mating M	.523 / 13.28	Mating M	.458/11.63 REF	Mating M	.461 / 11.71
	Gold:	OVERALL	Gold:	OVERALL	Gold:	NA	Gold:	NA
	Bend Height: Y	.213 / 5.41	Bend Height: Y	.213 / 5.41	Bend Height: Y	.221 / 5.61	Bend Height: Y	.213 / 5.41
	PC Tail P	.592 / 15.04	PC Tail P	.136 / 3.45	PC Tail P	.125+-.015	PC Tail P	.130 / 3.30
	Tin:	NA	Tin:	NA	Tin:	OVERALL	Tin:	OVERALL
	Pack Per	PK-41672-001	Pack Per	PK-41672-001	Pack Per	PK-41672-001	Pack Per	PK-41672-001
Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2	41672-0109	A-41672-A02D501	026586020	A-41672-A02C501	026482029	A-41672-A02E102	41672-0151	A-41672-A02F102
3	41672-0110	A-41672-A03D501	026586030	A-41672-A03C501	026482039	A-41672-A03E102	41672-0152	A-41672-A03F102
4	41672-0111	A-41672-A04D501	41672-0131	A-41672-A04C501	026482049	A-41672-A04E102	41672-0153	A-41672-A04F102
5	41672-0112	A-41672-A05D501	41672-0132	A-41672-A05C501	026482059	A-41672-A05E102	41672-0154	A-41672-A05F102
6	41672-0113	A-41672-A06D501	41672-0133	A-41672-A06C501	026482069	A-41672-A06E102	41672-0155	A-41672-A06F102
7	41672-0114	A-41672-A07D501	41672-0134	A-41672-A07C501	026482079	A-41672-A07E102	41672-0156	A-41672-A07F102
8	41672-0115	A-41672-A08D501	026586080	A-41672-A08C501	026482089	A-41672-A08E102	41672-0157	A-41672-A08F102
9	41672-0116	A-41672-A09D501	41672-0135	A-41672-A09C501	026482099	A-41672-A09E102	41672-0158	A-41672-A09F102
10	41672-0117	A-41672-A10D501	41672-0136	A-41672-A10C501	026482109	A-41672-A10E102	41672-0159	A-41672-A10F102
11	41672-0118	A-41672-A11D501	41672-0137	A-41672-A11C501	026482119	A-41672-A11E102	41672-0160	A-41672-A11F102
12	41672-0119	A-41672-A12D501	41672-0138	A-41672-A12C501	026482129	A-41672-A12E102	41672-0161	A-41672-A12F102
13	41672-0120	A-41672-A13D501	41672-0139	A-41672-A13C501	026482139	A-41672-A13E102	41672-0162	A-41672-A13F102
14	41672-0121	A-41672-A14D501	41672-0140	A-41672-A14C501	026482149	A-41672-A14E102	41672-0163	A-41672-A14F102
15	41672-0122	A-41672-A15D501	41672-0141	A-41672-A15C501	026482159	A-41672-A15E102	41672-0164	A-41672-A15F102
16	41672-0123	A-41672-A16D501	41672-0142	A-41672-A16C501	026482169	A-41672-A16E102	41672-0165	A-41672-A16F102
17	41672-0124	A-41672-A17D501	41672-0143	A-41672-A17C501	026482179	A-41672-A17E102	41672-0166	A-41672-A17F102
18	41672-0125	A-41672-A18D501	41672-0144	A-41672-A18C501	026482189	A-41672-A18E102	41672-0167	A-41672-A18F102
19	41672-0126	A-41672-A19D501	41672-0145	A-41672-A19C501	026482199	A-41672-A19E102	41672-0168	A-41672-A19F102
20	41672-0127	A-41672-A20D501	41672-0146	A-41672-A20C501	026482209	A-41672-A20E102	41672-0169	A-41672-A20F102
21	41672-0128	A-41672-A21D501	41672-0147	A-41672-A21C501	026482219	A-41672-A21E102	41672-0170	A-41672-A21F102
22	41672-0129	A-41672-A22D501	41672-0148	A-41672-A22C501	026482229	A-41672-A22E102	41672-0171	A-41672-A22F102
23	41672-0130	A-41672-A23D501	41672-0149	A-41672-A23C501	026482239	A-41672-A23E102	41672-0172	A-41672-A23F102
24	026586242	A-41672-A24D501	41672-0150	A-41672-A24C501	026482249	A-41672-A24E102	41672-0173	A-41672-A24F102

REV: AB4	<u>ECR/ECN INFORMATION:</u>	<u>TITLE:</u> KK 156 HEADER ASSEMBLY FRICTION LOCK BREAKAWAY RIGHT ANGLE			<u>SHEET No.</u>
	<u>EC No.:</u> UCP2009-2938				- 4 -
	<u>DATE:</u> 6/15/2009				
<u>DOCUMENT NUMBER:</u> SD- 41672 -001		<u>CREATED / REVISED BY:</u> MKIPPER	<u>CHECKED BY:</u> SSOUSEK	<u>APPROVED BY:</u> FSMITH	



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REV: A1	ECR/ECN INFORMATION:	TITLE: KK 156 HEADER ASSEMBLY FRICTION LOCK BREAKAWAY RIGHT ANGLE (LEAD-FREE)	SHEET No. - 2 -	
	EC No.: UCP2006-1776			
	DATE: 4/11/2006			
DOCUMENT NUMBER: SD- 41672 -002		CREATED / REVISED BY: ADERR	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH