

KLARK TEKNIK GROUP

TECHNICAL BULLETIN

Walter Nash Road, Kidderminster, Worcestershire. DY11 7HJ. England

Tel: (44) (0) 1562 741515. Fax: (44) (0) 1562 745371

KLARK TEKNIK **DDA** **MIDAS**

SIGNAL PROCESSING BY DEFINITION BETTER BY DESIGN DESIGNED FOR A PURE PERFORMANCE

Brand	Reference Number	Date	<input checked="" type="checkbox"/> Urgent
Midas	114	17/10/2002	<input type="checkbox"/> Recommended
Product	Serial Number	Assembly	<input type="checkbox"/> Information Only
Legend 3000	See below	Console	

Subject

Console performance improvements.

Information

Midas has been continually investigating ways in which the performance of the Legend 3000 console may be improved. From this there have been a number of improvements that are currently being implemented into current manufacture.

The changes are as follows:

A/ Impedance changes on the internal audio bussing system to improve further the noise floor and cross talk figures. These are component changes are on the LC301A, LC311A and LC321A Boards. These changes have been implemented from console 3149 (With the exception of earlier consoles 3097,3098,3099,3100,3127,3128 & 3133).

B/ Fader damping has been changed to improve the feel. These changes are made on the LC301B, LC311A and LC321A boards. This change has been implemented from console serial number 3152 (with the exceptions of earlier consoles 3142 and 3150)

C/ Fader dust covers will be fitted as standard from console serial number 3219. When this is fully implemented information on retrofit kits will be available.

When supplying spare PCB's care needs to be taken of the version type. If modified inputs are mixed with unmodified master section or vice versa there is a gain difference created due to the impedance changes.

We will be effecting an exchange scheme were by if a customers feel that there application warrant the new specifications an exchange set of PCB's may be arranged. This will be subject to an upgrade fee and return of the original boards once carried out.

Shown below are the upgrade fees for a standard 48 input console:

Enhanced Noise and Cross-talk figures – GBP 800.00

Fader change – GBP 398.00

Complete Console – GBP 1123.00

Other Information

Distributed

All Midas Distributors

Date Distributed

18/10/2002

KLAR KTEKNIK ENGINEERING CHANGE NOTE

ECN Number
3808

Product
LC301

ECN No.	3808A	RFC No.	3808
PRODUCT	LC3000 I/P PCB	ASSEMBLY NO.	LC301A-3
NEW PART NO.	N/A	NEW DRAWING NO.	N/A
BOM REVISION	10	CONCESSION NO.	N/A
PURCH. ORDER	N/A	IMPLEMENTATION DATE	IMMEDIATE
MICROSS UPDATE	8 TH AUGUST 2002	PRODUCTION BATCH	N/A

NATURE OF CHANGE:

BOM PCB MECHANICAL OTHER SCHEM. UPDATE REQ. TEST PROC. UPDATE REQ.

BOM Correction

Physical Change

PCB UP Issued

Circuit Change

Requires Technical Bulletin

Technical Bulletin Number

				Old	N	
				Quantity	Q	
BOM Changes						
<u>Delete</u>	24 Off	RES56-4E1R00	10K 0603 1% M.FILM RES	REF: R1190,R1191,R1192 R2056,R2057,R2040,R319 R3191,R3192,R4190,R419 R4192,R5190,R5191,R519 R6190,R6191,R6192, R7190,R7191,R7192,R819 R8191,R8192	353	3
<u>Add</u>	24 Off	RES56-3E2R70	2K7 0603 1% M.FILM RES	REF: R1190,R1191,R1192 R2056,R2057,R2040,R319 R3191,R3192,R4190,R419 R4192,R5190,R5191,R519 R6190,R6191, R6192, R7190,R7191,R7192,R819 R8191,R8192	0	2

REMARKS: Purchasing to notify sub-contractor of change.

REASON FOR REQUEST: Cross talk onto master busses

DISPOSAL OF PARTS:

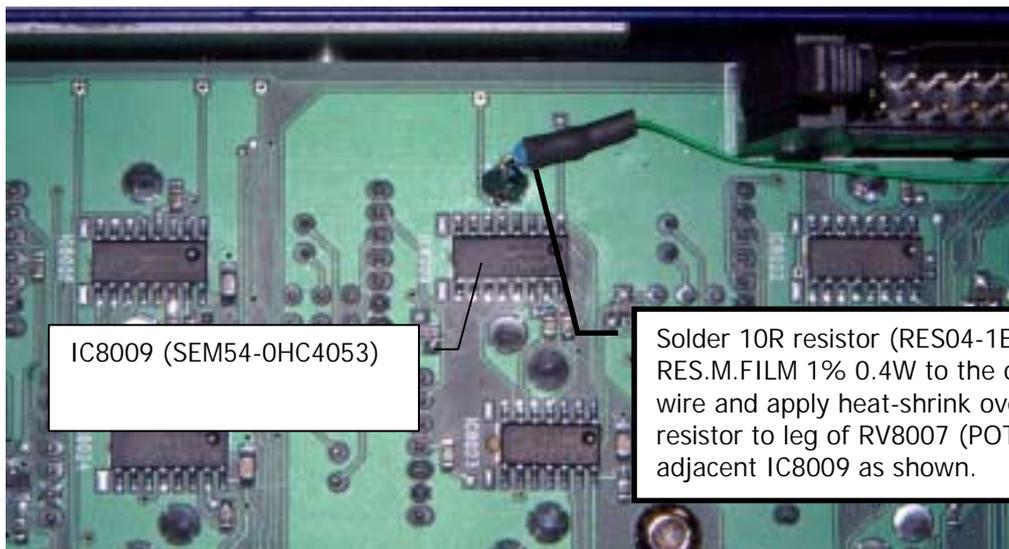
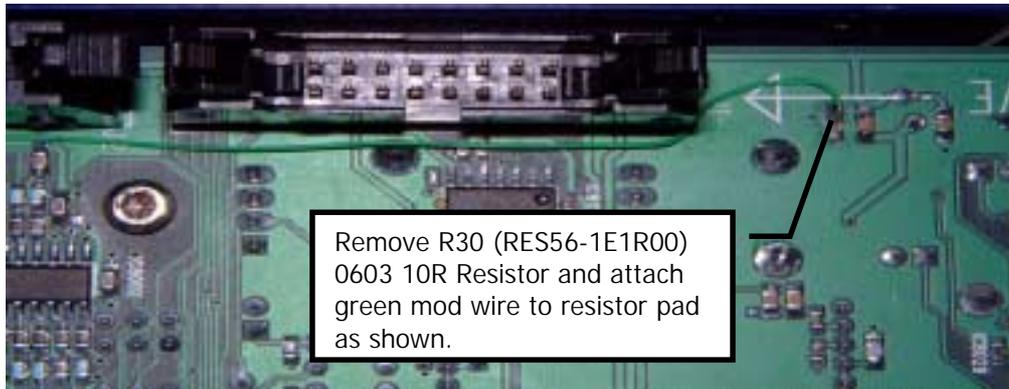
REQUESTED BY:	ACTIONED BY:	APPROVED BY:
A. COOPER	R. MASON	
DATE: 7 TH AUGUST 2002	DATE: 8 TH AUGUST 2002	DATE: 8 TH AUGUST 2002

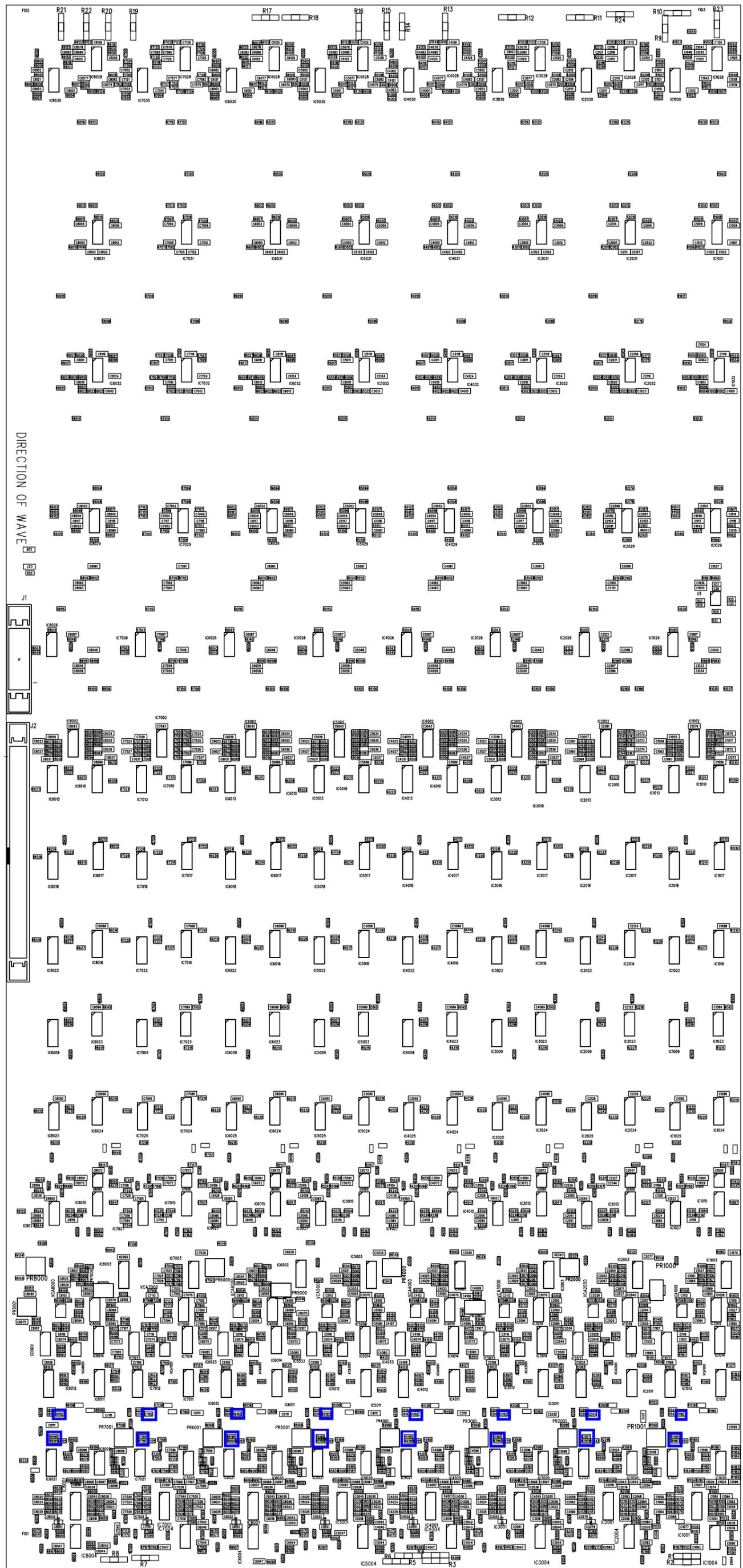
PRODUCTION MODIFICATION NOTICE

MODIFICATION NO.	150	
PRIORITY	IMMEDIATE IMPLEMENTATION.	
PART NO:	PCX-LC301A-3 & PCX-LC301A-4	
NAME	Legend Main PCB	
RELATED ASSEMBLIES	LC301A-3 & LC301A-4 Legend Input Main PCB Assembly	
CONCESSION	N/A	
RFC/ECN	3823	
CLOSING DATE OF MOD	On release of Issue 5 PCB.	
REQUESTED BY	Alex Cooper	
CHECKED BY		
APPROVED BY		
ISSUE DATE		

REASON FOR MODIFICATION

'Customer complaint regarding noise on the Master Busses.'





ECN Number

3808

Product

LC311

 BOM Correction Physical Change PCB UP Issued Circuit Change Requires Technical Bulletin

Technical Bulletin Number

ECN No.	3808B	RFC No.	3808
PRODUCT	LC3000 O/P MAIN ASSY	ASSEMBLY No.	LC311A-3
NEW PART NO.	N/A	NEW DRAWING NO.	N/A
BOM REVISION	13	CONCESSION No.	N/A
PURCH. ORDER	N/A	IMPLEMENTATION DATE	IMMEDIATE
MICROSS UPDATE	8 TH AUGUST 2002	PRODUCTION BATCH	N/A

NATURE OF CHANGE:

BOM PCB MECHANICAL OTHER SCHEM. UPDATE REQ. TEST PROC. UPDATE REQ.

BOM Changes					<u>Old</u> Quantity	<u>New</u> Quantity
<u>Delete</u>	6 Off	RES56-4E1R00	10K 0603 1% M.FILM RES	REF: R1300,R1301 R1302,R1411,R1412 R1413	165	159
<u>Add</u>	6 Off	RES56-3E2R70	2K7 0603 1% M.FILM RES	REF: R1300,R1301, R1302,R1411,R1412 R1413	13	19

REMARKS: Purchasing to notify sub-contractor of change.**REASON FOR REQUEST:** Cross talk onto master busses.**DISPOSAL OF PARTS:**

REQUESTED BY:	ACTIONED BY:	APPROVED BY:
A. COOPER	R. MASON	
DATE: 7 TH AUGUST 2002	DATE: 8 TH AUGUST 2002	DATE: 8 TH AUGUST 2002

ECN File

KLAR KTEKNIK**ENGINEERING CHANGE NOTE**

ECN Number

3808

Product

LC321

ECN No.	3808C	RFC No.	3808
PRODUCT	STEREO LP GRP/MTX ASSY	ASSEMBLY NO.	LC321A-3
NEW PART NO.	N/A	NEW DRAWING NO.	N/A
BOM REVISION	7	CONCESSION NO.	N/A
PURCH. ORDER	N/A	IMPLEMENTATION DATE	IMMEDIATE
MICROSS UPDATE	8 TH AUGUST 2002	PRODUCTION BATCH	N/A

NATURE OF CHANGE:

BOM PCB MECHANICAL OTHER SCHEM. UPDATE REQ. TEST PROC. UPDATE REQ.

 BOM Correction Physical Change PCB UP Issued Circuit Change Requires Technical Bulletin

Technical Bulletin Number

					Old	New
					Quantity	Quantity
BOM Changes						
<u>Delete</u>	32 Off	RES56-4E1R00	10K 0603 1% M.FILM	REF:R5604,R5704,R5804,R265 R266,R267,R565,R566,R567,R865 R866,R867,R1165,R1166,R1337 R1338,R1339,R1437,R1438, R1439,R1537,R1538,R1539 R1637,R1638,R1639,R1737 R1738,R1739,R1837,R1838 R1839	396	364
<u>Delete</u>	3 Off	RES56-4E3R00	30K 0603 1% M.FILM	REF:R5603,R5703,R5803	17	14
<u>Delete</u>	3 Off	RES56-3E5R60	5K6 0603 1% M.FILM	REF: R5600,R5700,,R5800	41	38
<u>Add</u>	32 Off	RES56-3E2R70	2K7 0603 1% M.FILM	REF: R5604,R5704,R5804,R265 R266,R267,R565,R566,R567,R865 R866,R867,R1165,R1166,R1337 R1338,R1339,R1437,R1438 R1439,R1537,R1538,R1539 R1637,R1638,R1639,R1737 R1738,R1739,R1837,R1838 R1839	22	54
<u>Add</u>	3 Off	RES56-3E9R10	9K1 0603 1% M.FILM	REF:R5603,R5703,R5803	17	20
<u>Add</u>	3 Off	RES56-3E1R50	1K5 0603 1% M.FILM	REF:R5600,R5700,R5800	34	37

REMARKS: Purchasing to notify sub-contractor of change.**REASON FOR REQUEST:** Cross talk onto master busses.**DISPOSAL OF PARTS:**

REQUESTED BY:	ACTIONED BY:	APPROVED BY:
A. COOPER	R. MASON	
DATE: 7 TH AUGUST 2002	DATE: 8 TH AUGUST 2002	DATE: 8 TH AUGUST 2002

ECN File

KLARKTEKNIK

ENGINEERING CHANGE NOTE

ECN Number
3809

Product
LC321

ECN No.	3809	RFC No.	3809
PRODUCT	STEREO I/P GRP/MTX ASSY	ASSEMBLY No.	LC321A-3
NEW PART No.	N/A	NEW DRAWING No.	N/A
BOM REVISION	8	CONCESSION No.	N/A
PURCH. ORDER	N/A	IMPLEMENTATION DATE	IMMEDIATE
MICROSS UPDATE	9 TH AUGUST 2002	PRODUCTION BATCH	N/A

NATURE OF CHANGE:

BOM PCB MECHANICAL OTHER SCHEM. UPDATE REQ. TEST PROC. UPDATE REQ.

BOM Correction

Physical Change

PCB UP Issued

Circuit Change

Requires Technical Bulletin

Technical Bulletin Number

BOM Changes					<u>Old</u> <u>Quantity</u>	<u>New</u> <u>Quantity</u>
<u>Delete</u>	1 Off	RES56-1E2R20	22R 0603 1% M.FILM RES	REF: R2413	1	0
<u>Add</u>	1 Off	RES56-0E7R50	7R5 0603 1% M.FILM RES	REF: R2413	0	1

REMARKS: Purchasing to notify sub-contractor of change.

REASON FOR REQUEST: Digital break through onto the master busses

DISPOSAL OF PARTS:

REQUESTED BY:	ACTIONED BY:	APPROVED BY:
A. COOPER	R. MASON	
DATE: 7 TH AUGUST 2002	DATE: 9 TH AUGUST 2002	DATE: 9 TH AUGUST 2002

ECN Number

3813

Product

LC321

 BOM Correction Physical Change PCB UP Issued Circuit Change Requires Technical Bulletin

Technical Bulletin Number

ECN No.	3813	RFC No.	3813
PRODUCT	STEREO I/P GRP/MTX ASSY	ASSEMBLY No.	LC321A-3
NEW PART NO.	N/A	NEW DRAWING NO.	N/A
BOM REVISION	10	CONCESSION No.	N/A
PURCH. ORDER	N/A	IMPLEMENTATION DATE	IMMEDIATE
MICROSS UPDATE	1 ⁵ TH AUGUST 2002	PRODUCTION BATCH	N/A

NATURE OF CHANGE:

BOM PCB MECHANICAL OTHER SCHEM. UPDATE REQ. TEST PROC. UPDATE REQ.

<u>BOM Changes</u>						<u>Old</u>	<u>New</u>
						<u>Quantity</u>	<u>Quantity</u>
<u>Delete</u>	1 Off	RES56-4E1R00	10K 0603 1% M.FILM RES	REF: R1167		358	357
<u>Add</u>	1 Off	RES56-3E2R70	2K7 0603 1% M.FILM RES	REF: R1167		60	61

REMARKS: Purchasing to notify sub-contractor of change.**REASON FOR REQUEST:** Cross talk onto Master busses (changes missed from last RFC)**DISPOSAL OF PARTS:**

REQUESTED BY:	ACTIONED BY:	APPROVED BY:
A. COOPER	R. MASON	
DATE: 13 TH AUGUST 2002	DATE: 15 TH AUGUST 2002	DATE: 15 TH AUGUST 2002

ECN File

KLAR KTEKNIK

ENGINEERING CHANGE NOTE

ECN Number
3810

Product
LC321

ECN No.	3810	RFC No.	3810
PRODUCT	STEREO I/P GRP/MTX ASSY	ASSEMBLY No.	LC321A-3
NEW PART No.	N/A	NEW DRAWING No.	N/A
BOM REVISION	9	CONCESSION No.	N/A
PURCH. ORDER	N/A	IMPLEMENTATION DATE	IMMEDIATE
MICROSS UPDATE	12 TH AUGUST 2002	PRODUCTION BATCH	N/A

NATURE OF CHANGE:

BOM PCB MECHANICAL OTHER SCHEM. UPDATE REQ. TEST PROC. UPDATE REQ.

BOM Correction

Physical Change

PCB UP Issued

Circuit Change

Requires Technical Bulletin

Technical Bulletin Number

					Old	New
					Quantity	Quantity
BOM Changes						
<u>Delete</u>	6 Off	RES56-4E1R00	10K 0603 1% M.FILM RES	REF: R1937,R1938 R1939,R2037,R2038, R2039	364	358
<u>Add</u>	6Off	RES56-3E2R70	2K7 0603 1% M.FILM RES	REF: R1937,R1938 R1939,R2037,R2038 R2039	54	60

REMARKS: Purchasing to notify sub-contractor of change.

REASON FOR REQUEST: Cross talk onto master busses(changes missed from last RFC)

DISPOSAL OF PARTS:

REQUESTED BY:	ACTIONED BY:	APPROVED BY:
A. COOPER	R. MASON	
DATE: 12 TH AUGUST 2002	DATE: 12 TH AUGUST 2002	DATE: 12 TH AUGUST 2002

