

# 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** **MIDAS**

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

<b>Brand</b> Midas	<b>Reference Number</b> 106	<b>Date</b> 05/06/2002	<input type="checkbox"/> Urgent
<b>Product</b> Legend	<b>Serial Number</b> 3032	<b>Assembly</b> Master and Group Output Meters	<input checked="" type="checkbox"/> Recommended
			<input type="checkbox"/> Information Only

### Subject

On a few instances the lower 2 LED's on the output meters can be seen to illuminated without signal being presenton . We have investigated this and it has been found to be due to instability of one of the IC's in the meter circuitry. If thisd problem is observed it can be fixed by the simple addition of some capacitors, see the attached instructions.

### Informatio

Please see the attached 2 sheets

### Other Informatio

Distributed

Date Distribute

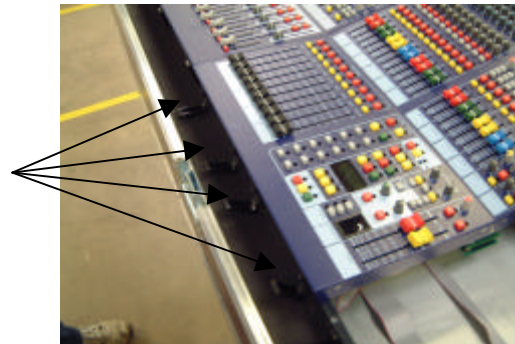
## Master Module and Group Module Meter Boards.

On the legend Output section we have had instances where meters have hung displaying the lower LED's illuminated without signal present. This is due to intermittent oscillation caused by the meter IC's. These IC's can be made stable by the addition of 0.1uF Capacitors between R119, R204, R304, R404, R504, R604, R704, R804, R904, R1004, R1104 and R1204 and ground as shown in the picture below.

To carry out this modification on the master section of the Legend the following steps must be carried out.

### Removal Of The Output Module

STEP 1 – Unclip the lower latches



STEP 2 - Lift the module up and Remove the ribbon cables (ensure a note is made of where each cable plugs)



STEP 3 - Bring the module back almost vertical and then pull out in the direction of the arrow. (The rear of the module will fall from the mounting and can be pulled out about 15mm)



STEP 4 - Disconnect the ribbon cables connecting the rear PCB on the module to the rear output connector PCB. (Ensure a note is made of where each cable plugs).

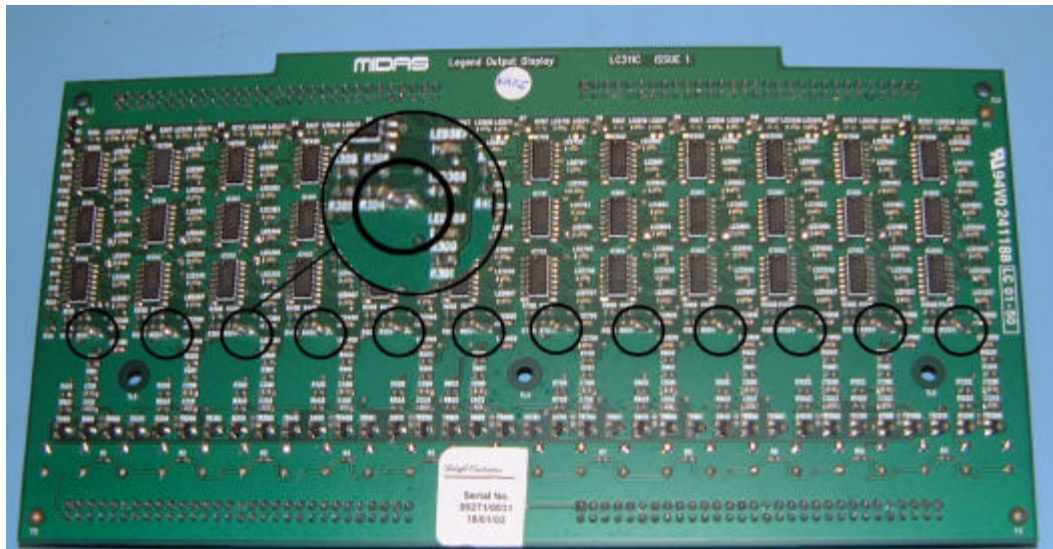


## Modification of the Meter PCB

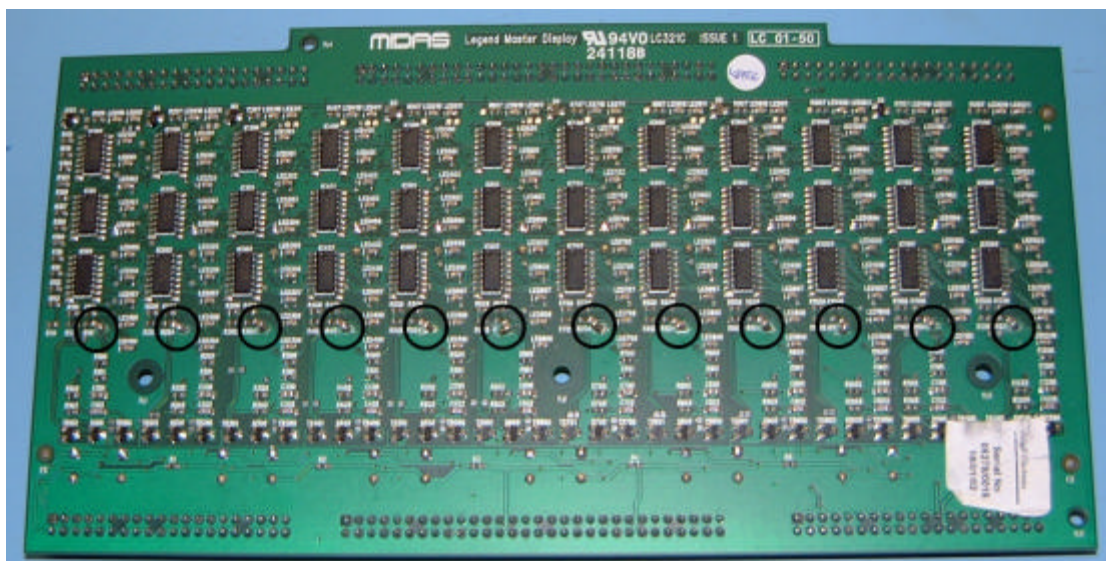
STEP 5 - Remove the module from the console and place on a work area upside allowing access to the component side of the meter PCB's. (Ensure that padding is placed on the work surface so that the front panel is not scratched).

STEP 6 – Remove the meter bridge PCB's from the module by removing the fixing screws and ribbon cables .

STEP 7 - On the Group Meter PCB remove the resist from the ground plain located to the left and below the resistors R119, R204, R304, R404, R504, R604, R704, R804, R904, R1004, R1104 and R1204. This is shown below.



STEP 8 - Fit the capacitor between the left hands side of the resistor and the ground plain to the right of the resistors previously cleared of resist in the last step .  
The Capacitor we use is surface mount, part number CAP06-GK510050.



STEP 9 – Refit the module back into the console.