

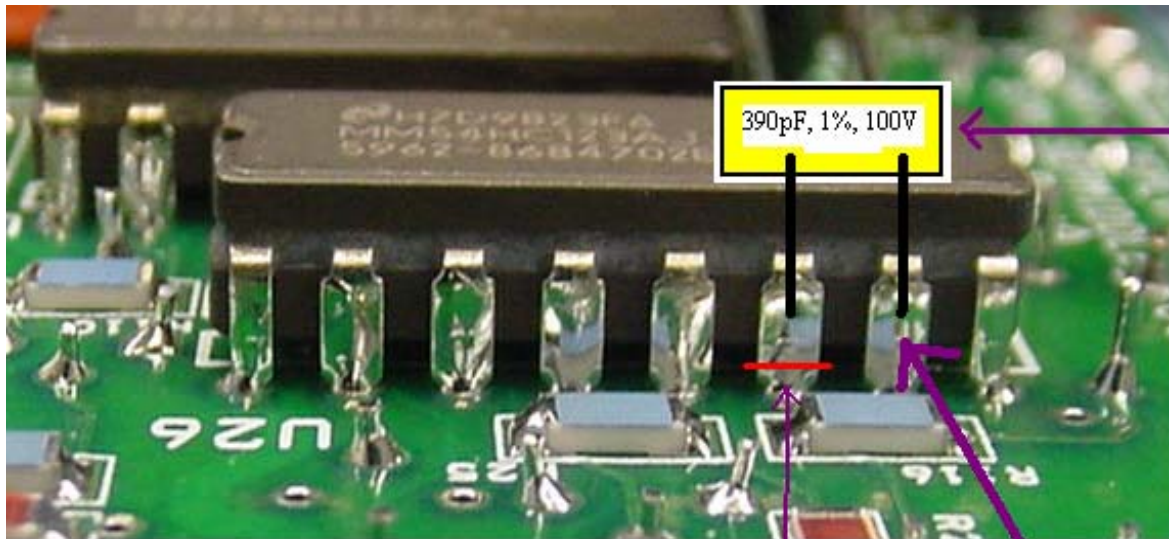
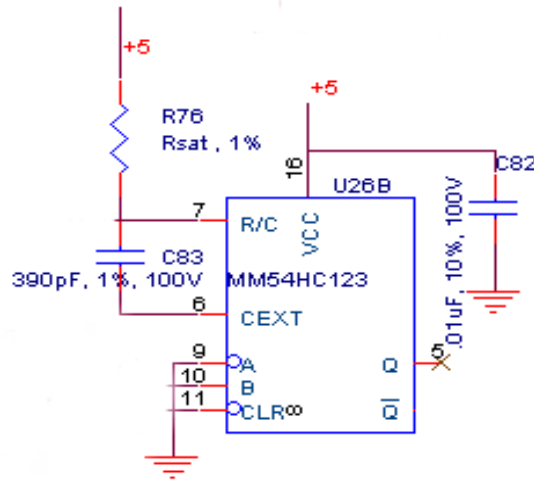
Date: _____

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STEREO IMPACT SEP LVPS FM1 MIDDLE BOARD REPAIR INSTRUCTIONS

1. U26 Pin6 connected to +5V (PFR-1004)

U26 pin6 (CEXT) must be only connected to 390pF capacitor (C83). The line connected was named +5V on the schematic. Therefore the layout generating software has connected the line to +5V. C83 must be removed and a new capacitor (CK05) must be installed. The value of the capacitor remains the same.



390pF, 1%, 100V ← new C83

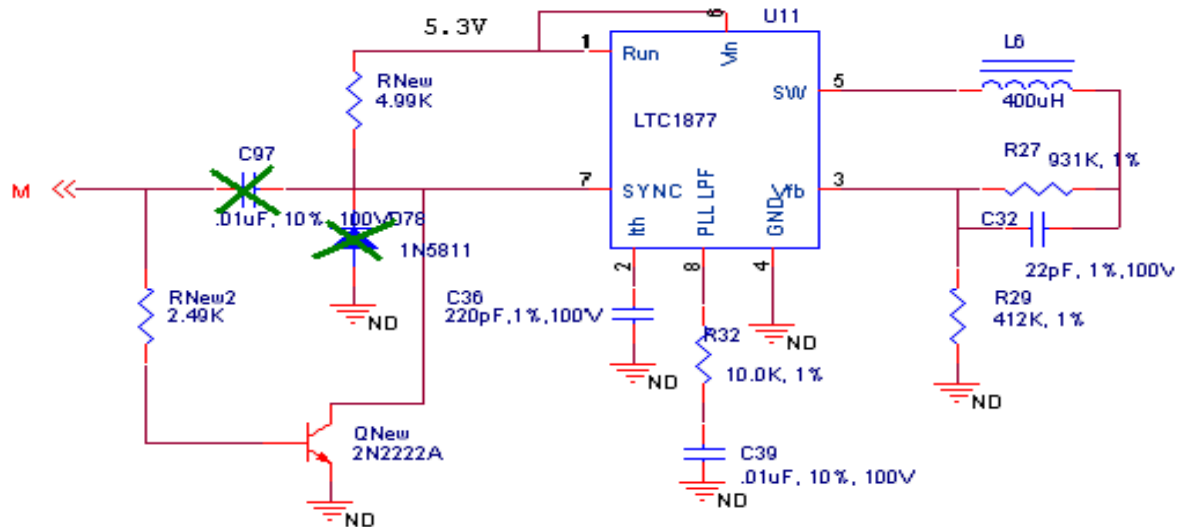
Clip Pin 6 of U26

Solder 390pF directly on Pin 6 and Pin 7

2. LTC1877 SYNC SIGNAL

LTC1877 Sync signal (Pin 7) should not receive negative voltages. In order to prevent negative voltages at SYNC node, a transistor will be installed instead of a Schottky Barrier diode (D78 and D80).

2.1 D78 and U11 repair Instructions

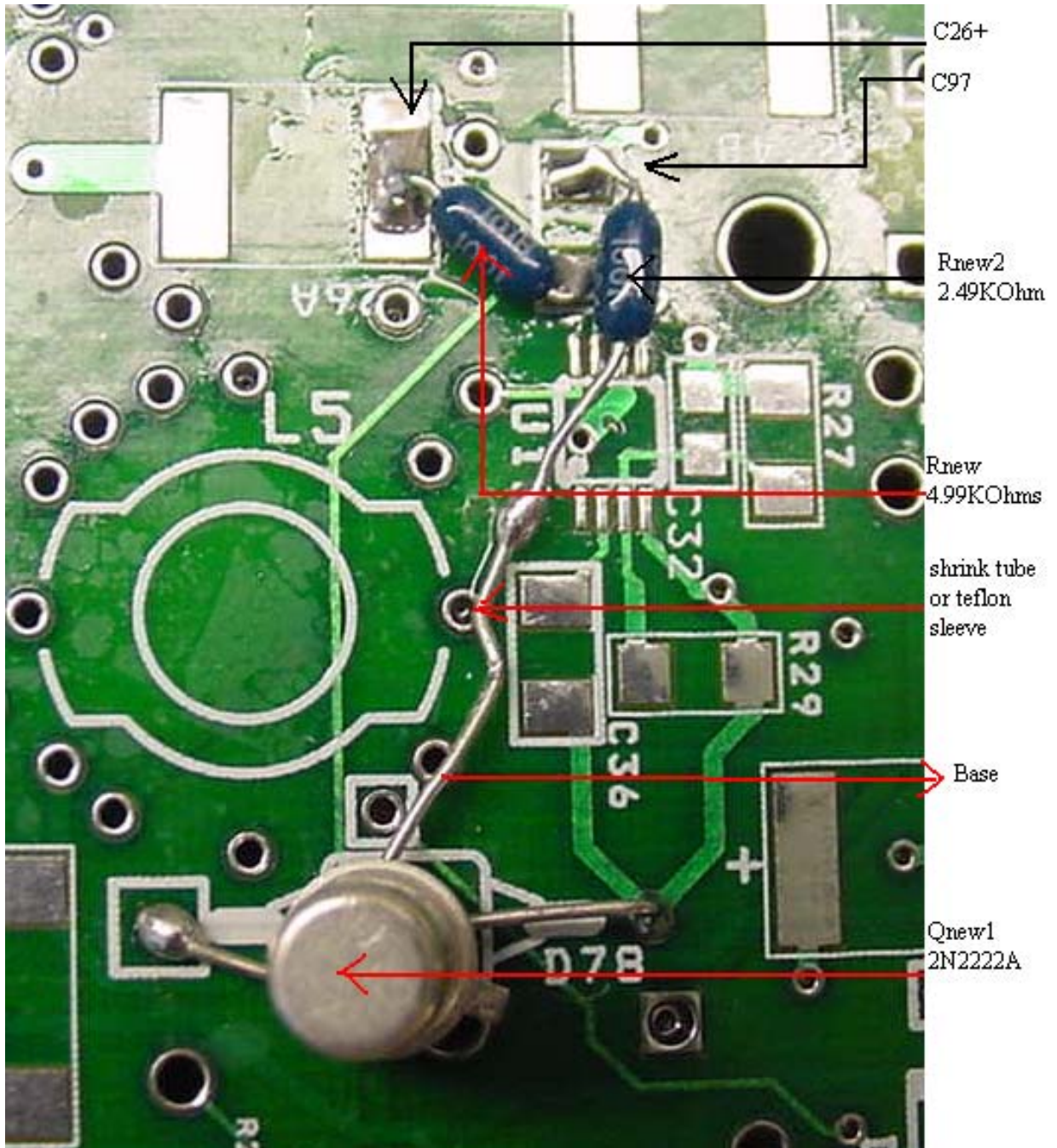


- Remove C97
 Completed By: _____ Date: _____
- Remove D78
 Completed By: _____ Date: _____
- Install 2N2222A Pin 1 to ground (anode pad of D78).
 Completed By: _____ Date: _____
- Install 2N2222A pin 3 to D78 cathode location.
 Completed By: _____ Date: _____
- Connect a 2.49KΩ (RNew2) resistor to the base of 2N2222A transistor. RNC50H2491DS
 Completed By: _____ Date: _____
 D/C: _____
- Connect other side of the 2.49KΩ to C97 where it connects to signal M.
 Completed By: _____ Date: _____
- Connect a 4.99KΩ (Rnew) resistor from C97 (SYNC side) to C26 + side which corresponds to 5.3V.
 Completed By: _____ Date: _____
 D/C: _____
- Use shrink tube or Teflon sleeves to cover any exposed leads.

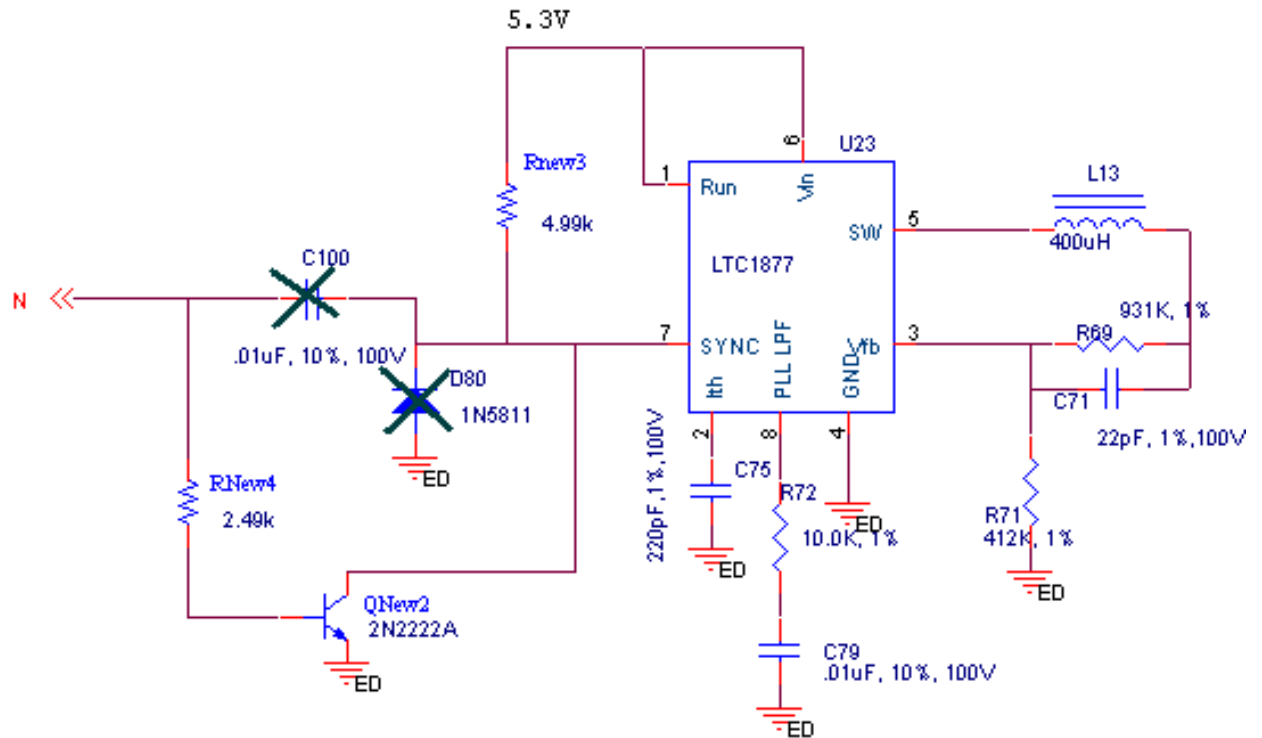
Date: _____

Date: _____

- Properly stake the components.



2.2 D80 and U23 repair instructions:



- Remove C100
 Completed By: _____ Date: _____
- Remove D80
 Completed By: _____ Date: _____
- Install 2N2222A Pin 1 to ground (D80 anode pad location)
 Completed By: _____ Date: _____
- Install 2N2222A pin 3 to D80 cathode location.
 Completed By: _____ Date: _____
- Connect a 2.49KΩ (Rnew4) resistor to the base of 2N2222A transistor. (RNC50H2491DS)
 Completed By: _____ Date: _____
 D/C: _____
- Connect other side of the 2.49KΩ (Rnew4) to C100 where it connects to signal N.
 Completed By: _____ Date: _____
- Connect a 4.99KΩ (Rnew3) resistor from C100 (SYNC side) to the via at U23 pin 6. (RNC50H4991DS)
 Completed By: _____ Date: _____
 D/C: _____

Date: _____

Date: _____

- Use shrink tube or Teflon sleeve where the leads are exposed

Completed By: _____

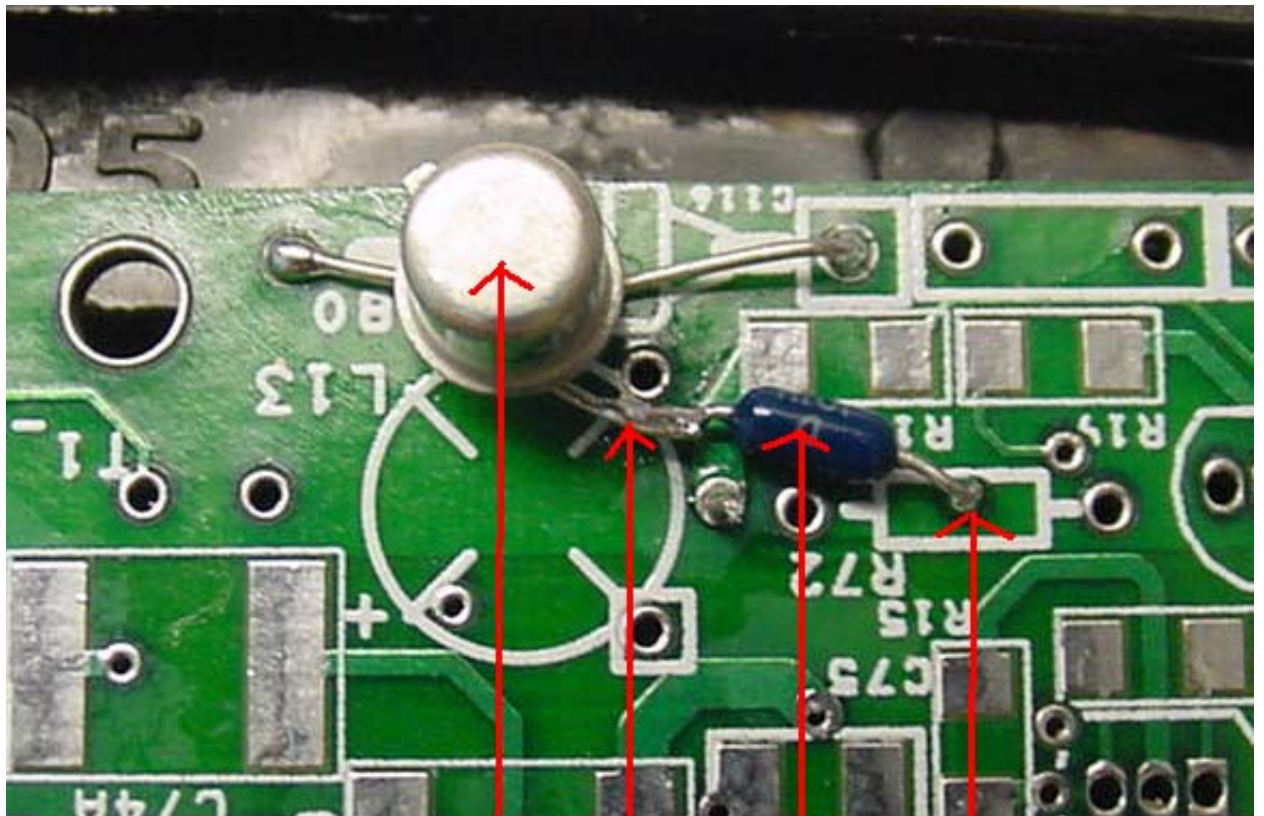
Date: _____

- During staking process, stake the new components.

Completed By: _____

Date: _____

View from top of the SEP LVPS Middle Board:



2N2222A
QNew2

Base

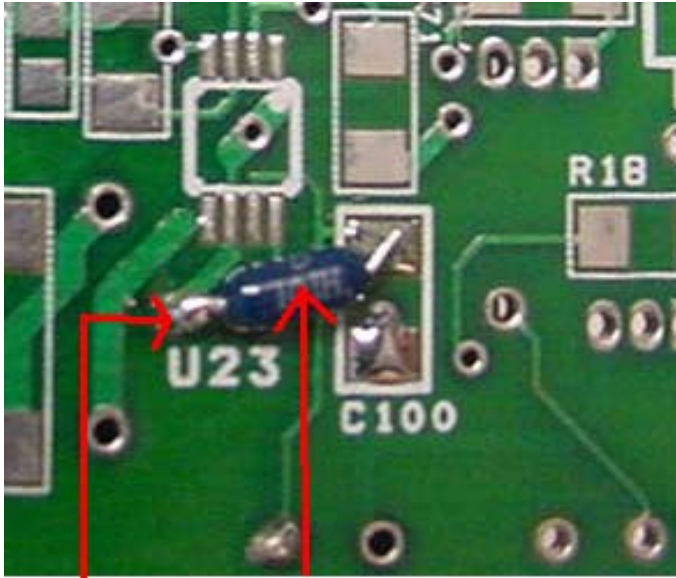
RNew4
2.49K Ohms

C100 and to signal N

Date: _____

Date: _____

View from bottom of the SEP LVPS Middle Board:



U23 Pin6
RNew3
4.99KOhms

Approved by:

Date:

Approved by:

Date: