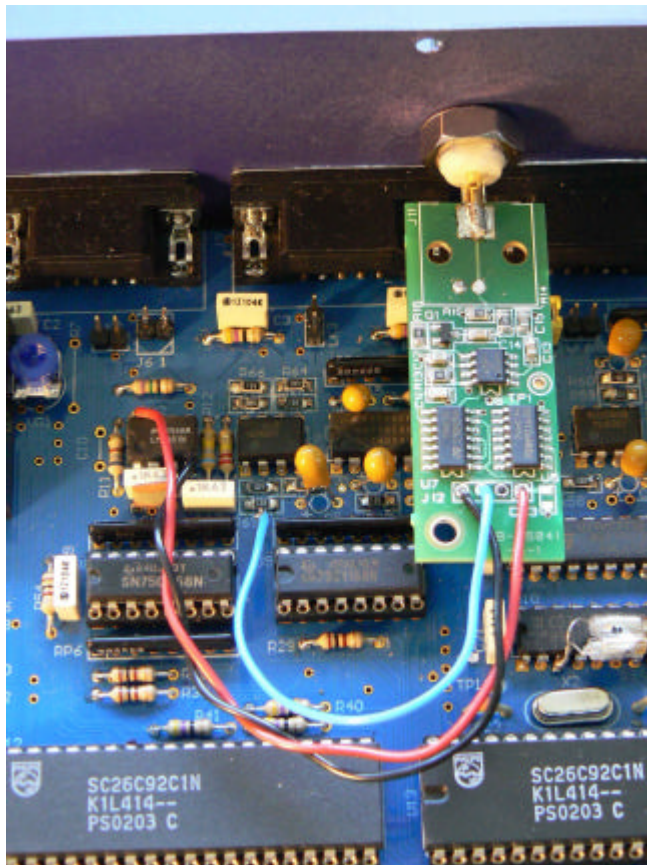




Bi-Level/Tri-level Sync Conversion Kit

The Tri-Level Sync Card is designed to be retro-fitted into the SR, MR and RM-6 series of CB Synchronisers. It is designed to operate both on normal and Tri-Level Syncs and generates a Frame-Rate Square Wave Output.

Fitting to SR /MR Series



The card should be mounted directly on the BNC connector as shown in the photograph.

Open up the Unit and disconnect the wires from the BNC socket to the PCB as these will not be required.

Remove the Processor Card, unscrew the D-Lock posts on the rear of the Unit and the three supports at the front of the card.

Fit the Tri-Level Sync Card to the BNC Socket keeping it about 2mm from being inserted fully home, such that the Component side connects to the signal side. Unscrew the Nut and rotate as necessary so that both sides can be soldered before re-fitting back into socket.

To fit the new card the frame rate output feed from U2 pin 7 must be cut. Locate the track using a multimeter as it passes through two via's, Via 1 located under C13 and above RP4, Via 2 located just beneath R69 and above RP5. Cut the track on the underside between the two via's.

Connect the three wires to the Processor card as follows:-

1. Red (pin 1) on T/L Sync card to U2 (8 pin LM1881) pin 8 (+5V).
2. Black (pin 4) on T/L Sync card to U2 (8 pin LM1881) pin 4 (0V).
3. Blue (pin 3) on T/L Sync card to via 2 (beneath R69) = Frame O/P.

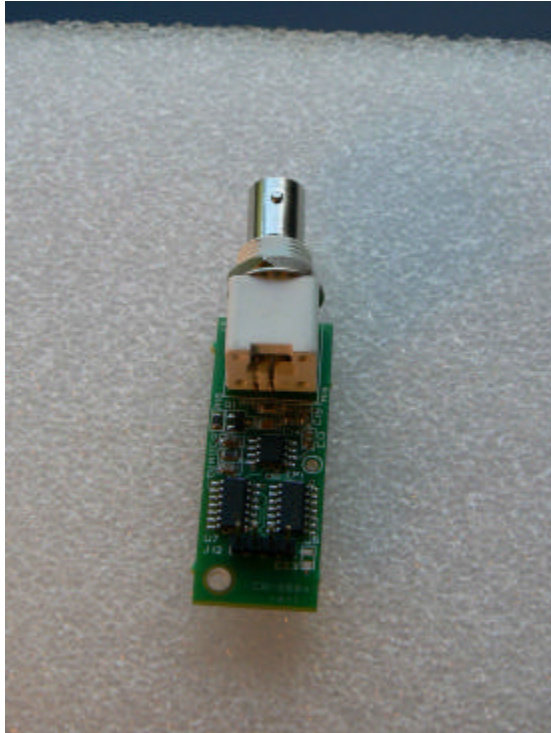
Check that pin 3 of the T/L V card connects to U13 pin 2 (40 pin SC26C92), and to U27 (18 pin 16C54 'G7') pin 13.

Check that pin 3 of the T/L Sync card is NOT connected to U2 (8 pin LM1881) Pin 7.

When powered and connected to Tri-Level or Normal Video Syncs the T/L Sync output should be a frame rate square wave.

Refit Card and re-assemble Unit.

RM-6 Units



Open the Unit, removing both to and bottom.

Remove BNC J18 from main card.

Fit the new PCB mounting BNC supplied to the T/L Sync PCB. File a matching flat on the underside of the plastic threads, Fit The T/L Sync card to the rear panel with the trackside uppermost.

On Trackside of RM-6 cut track to U25 pin 7.

With T/L Sync card in position, connect up as follows:-

1. Red (pin1) to U25 pin 8 (+5V)
2. Black (pin 4) to U25 pin 4 (0V)
3. Blue (pin 3) to pc Via adjacent to U22 Pin 6.

Check that Pin 3 on T/L Sync board is connected to U22 pin13 and U20 pin 2

Check that Pin 3 on the T/L Sync board is NOT connected to U25 pin 7.

Connect the two BNC signal pins so as to be able to loop through the video, Connect wire from J19 (already Linked) to the BNC Input to the T/L Sync card.

Apply Tri-Level Syncs to each of the BNC's in turn and confirm that a Square wave appears on U22 pin 13, before re-assembly.

CB Electronics

Loddonside, Lands End House, Beggars Hill Road, Charvil, Berkshire, RG10 0UD, UK
Tel +44 (0) 1189 320345 Fax +44 (0) 1189 320346
<http://www.colinbroad.com> E-mail Support@colinbroad.com