

DIGITAL TRACKING

AFTER OFFSET IS ADJUSTED (AS PER CALIBRATION PROCEDURE), INJECT A 1KHz SIGNAL AT INPUT JACK, USING A DUAL TRACE OSCILLOSCOPE, PROBE ENCODE TEST POINT CHANNEL ONE AND ADJUST INPUT LEVEL FOR 100mV P-P, PROBE DECODE TEST POINT ON CHANNEL 2, THEN ADJUST DECODE TRIMMER UNTIL AMPLITUDES ARE EXACTLY MATCHED, THEN SLOWLY INCREASE INPUT LEVEL AND WATCH THAT BOTH SIGNALS RETAIN THE SAME SIGNAL AMPLITUDE, THIS WILL VERIFY PROPER ENCODE/DECODE TRACKING.

IF UNIT IS NOT TRACKING PROPERLY CHECK AND/OR REPLACE THE FOLLOWING PARTS IN THIS ORDER.

1. 1000pf POLYFILM CAPACITORS MATCHED IN VALUE TO .01% OR BETTER.
2. 1uf TANTALUM CAPACITORS MATCHED IN VALUE TO .01% OR BETTER.
3. CD4028 MATCHED VENDOR AND DATE-CODE.
4. CD4066 (OR 4053 IN 2FX AND D4) MATCHED VENDOR AND DATE-CODE.
5. LF353 MATCHED VENDOR AND DATE-CODE (N/A TO 2FX AND D4)
6. NATIONAL SEMICONDUCTOR LF347 SUBSTITUTED FOR TL074 (2FX ONLY AND D4 ONLY)



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