

APPLICATION NOTE

TEKTRONIX VS-210

ADJUSTING TIMING ON THE TEKTRONIX VS-210 FRAME SYNCHRONIZER

There is a problem when using the SIF-4 interface with the Tektronix 210 synchronizer. Because of some limitations in the timing control available on the VS-210, the system timing controls on the Lance Design TBC remote system do not operate as they do when controlling other devices.

The response of the VS-210 to timing changes is quite slow, and because the range is large, considerable delays will be experienced when making timing adjustments.

The best way to operate the system when timing the 210 is as follows:

- 1) Center the SUBC PHASE control (Preset to +000).
- 2) Estimate the change needed to bring sync timing where you want it. Each microsecond of timing change equals about 30 units of HOR PHASE on the control panel. Set the panel to (approx.) this value, and wait for the 210 to get there.
- 3) Do fine trimming very slowly with the HOR PHASE control. Each step is 45 degrees of subcarrier.
- 4) When you get it close, switch to SUBC PHASE. Each degree of timing change is about 10 units on the control panel. Set the knob and WAIT. The 210 sometimes takes a couple of seconds to respond.
- 5) When you get it where you want it, save it in memory! The memory recalls are accurate, even if they take a long time to get there.