2.1 Serial Digital RX VCO Adjustment

The serial digital receiver VCO (voltage controlled oscillator) adjustment sets the "free run" frequency to the optimum point. This adjustment accounts for differences occurring in the chip manufacturing process and are not normally changed in the field.

2.1.1 Component serial digital - 270 Mb

- Connect a component serial digital source to the "SER. IN" connector.
- Connect a picture monitor to the component output connectors.
- Adjust R49 counter-clockwise until there is a loss of video (this indicates the VCO is unlocked).
- Slowly adjust R49 clockwise until stable video reappears. Measure and note the LOOP FILTER VOLTAGE appearing on pin 1 of R47 (Fig. 2-3).
- By slowly adjusting R49 clockwise, set the LOOP FILTER VOLTAGE to a point 220 mV above the value measured in step 4.

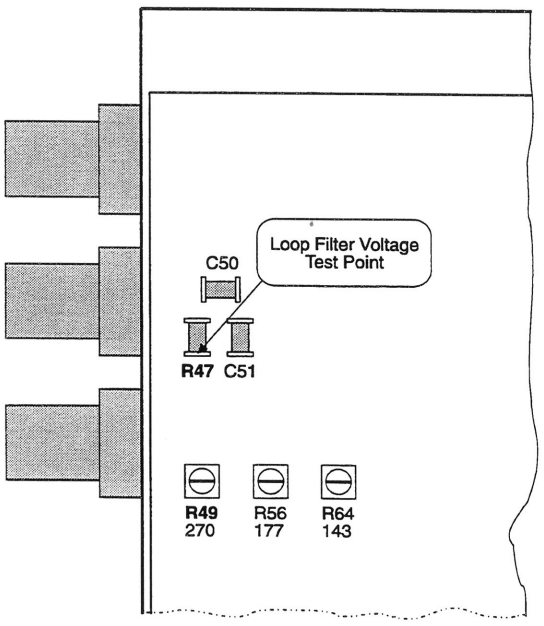

Fig. 2-3 Serial Digital RX VCO Adjustment

2.2 Video Output/Format Adjustment

Adjustments are accessed by holes in the rear panel of SDI to Analog Unit.

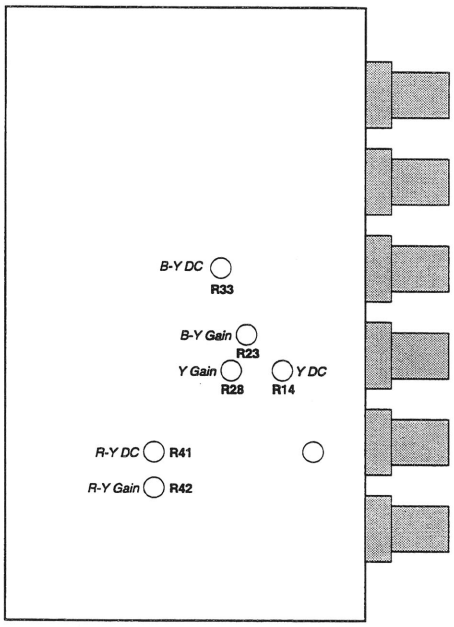

Fig. 2-4 Holes in rear plate - SDI to Analog Unit

The "push-on" jumpers should be removed/replaced by gripping the top "hat" of the jumped with small needle-nose pliers. The pots require a 3/32 inch (2.4 mm) non-metallic alignment screwdriver.

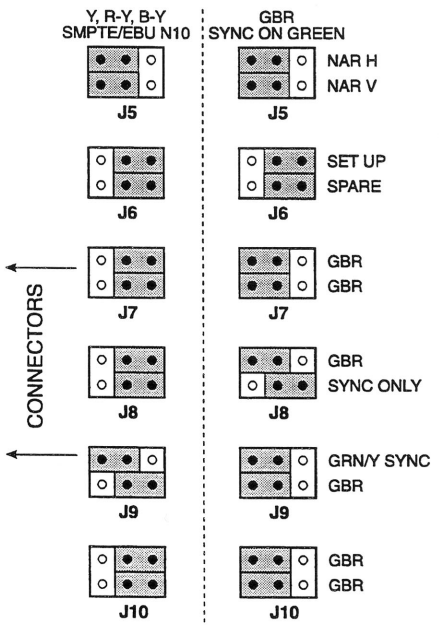

Fig. 2-4 Jumpers