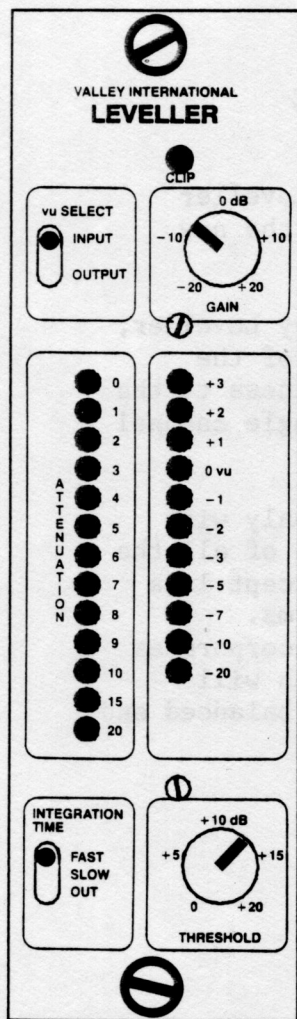


VALLEY LEVELLER
OWNER'S MANUAL

FRONT PANEL CONTROLS



CLIP LED indicates VCA overload. GAIN determines the quiescent gain of the VCA. It is normally set to a value corresponding to the nominal line level required at the output of the device. This control may also be used to add "make-up" gain to the output of the device.

vu SELECT routes either the input or output signal to the volume indicator.

ATTENUATION LED display shows the amount of gain reduction occurring in the VCA. It does not indicate gain added by the output GAIN control.

VOLUME INDICATOR ("vu meter") LED display with ANSI vu ballistics shows audio levels from -20 to +3 vu. Internal reference (0 vu) may be varied by use of the volume indicator calibration control.

THRESHOLD determines the signal level above which gain reduction begins. This control also determines the ratio of the limiter.

INTEGRATION TIME selects the attack time of the limiter. The FAST position corresponds to roughly 1 ms, and SLOW to 10 ms. These attack times are varied depending upon the complexity of the input waveform, thus preserving correct musical relationships in the processed program by not discriminating against those sounds which an artist intends to be emphasized. The OUT position disables the control circuitry of the limiter, but does not defeat the GAIN control.

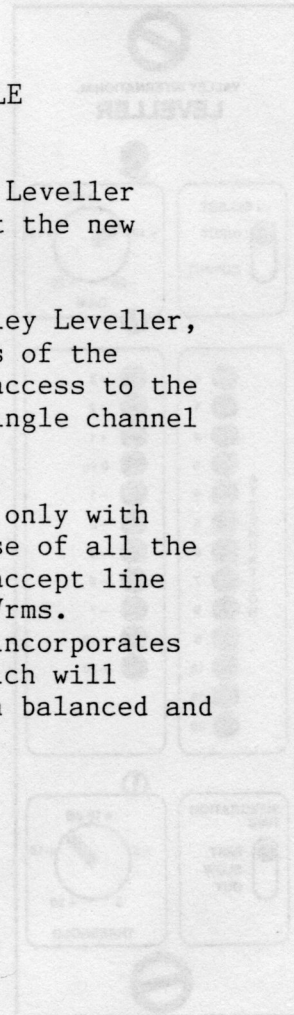
VALLEY LEVELLER
OWNER'S MANUAL

ADDENDUM FOR MODEL 816 LEVELLER MODULE

The following pages reflect changes in the Leveller owner's manual made to include information about the new Valley 816 Leveller module.

Since the introduction of the original Valley Leveller, the model 816 module was developed so that users of the Valley 800 series signal processors could have access to the same high quality, sophisticated limiter in a single channel module.

The 816 Leveller differs from the original only with respect to its input circuitry, which, like those of all the 800 series dynamics processors, is designed to accept line level feeds at 0 dB to +8 dB referred to 0.775 Vrms. Unlike the original 800 series modules, the 816 incorporates a differentially balanced line driver output which will automatically compensate for differences between balanced and unbalanced loads.



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The two-channel Leveller has an access hole in the front panel near each volume indicator to allow the operator to adjust the internal reference of the volume indicator in order to match the 0 vu indicator to the 0 dB reference level of the device feeding the Leveller. The control is labelled vu Cal.

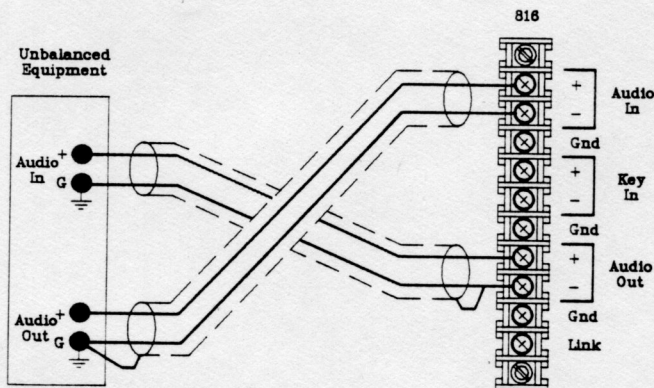
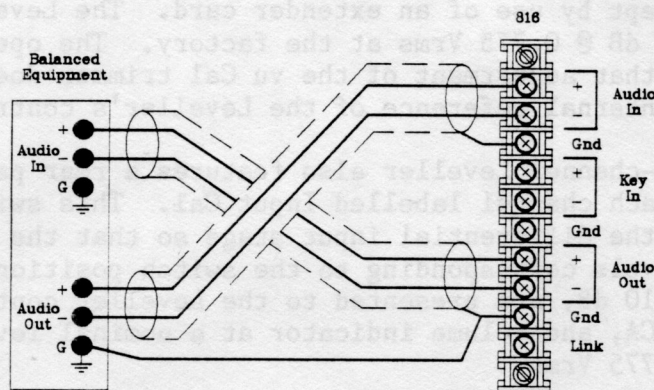
The corresponding control is mounted on the printed circuit card of the 816 module, and is not accessible to the operator except by use of an extender card. The Leveller is aligned to 0 dB @ 0.775 Vrms at the factory. The operator should note that adjustment of the vu Cal trimmer does not affect the internal reference of the Leveller's control circuitry.

The two-channel Leveller also features a rear panel switch for each channel labelled Input Cal. This switch sets the gain of the differential input stage so that the commonly used line levels corresponding to the switch position labels, +4, 0, and -10 dB, are presented to the Leveller control circuitry, VCA, and volume indicator at a nominal level of 0 dB ref. 0.775 Vrms

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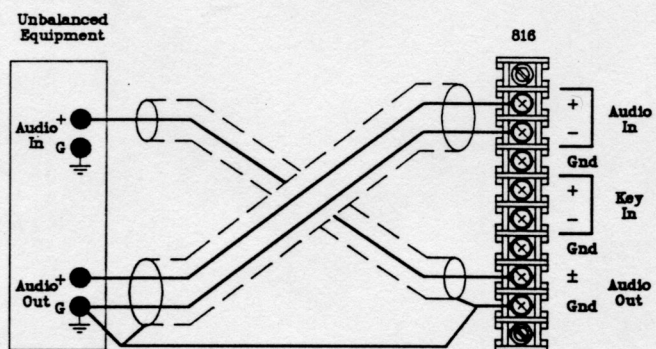
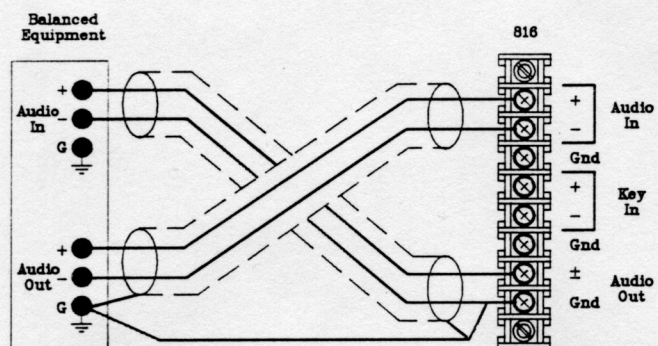
CONNECTIONS (for 816 module)

Model 816 in PR-2 and PR-10

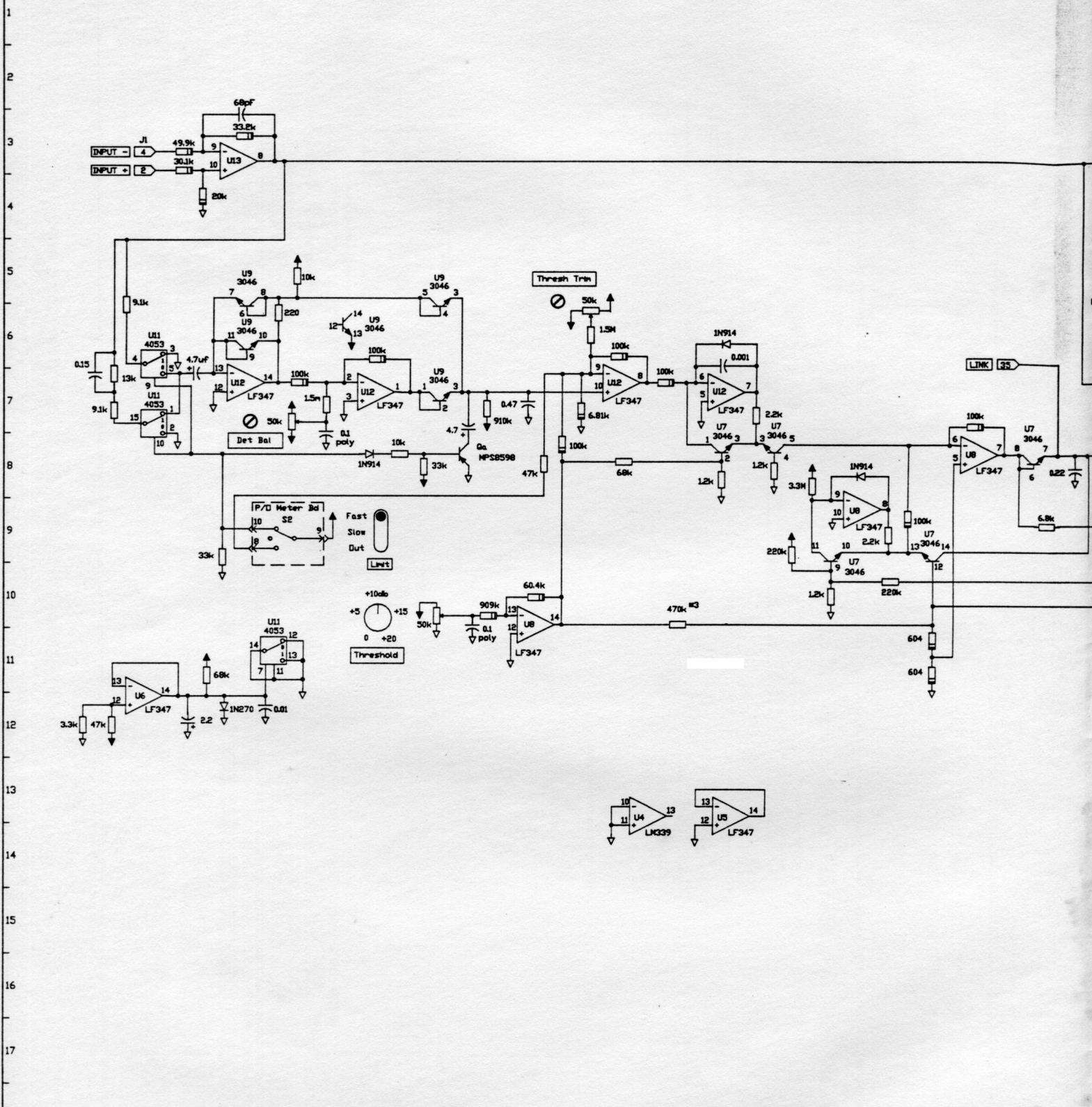


VALLEY LEVELLER
OWNER'S MANUAL

Model 816 in TR-804 and TR-806



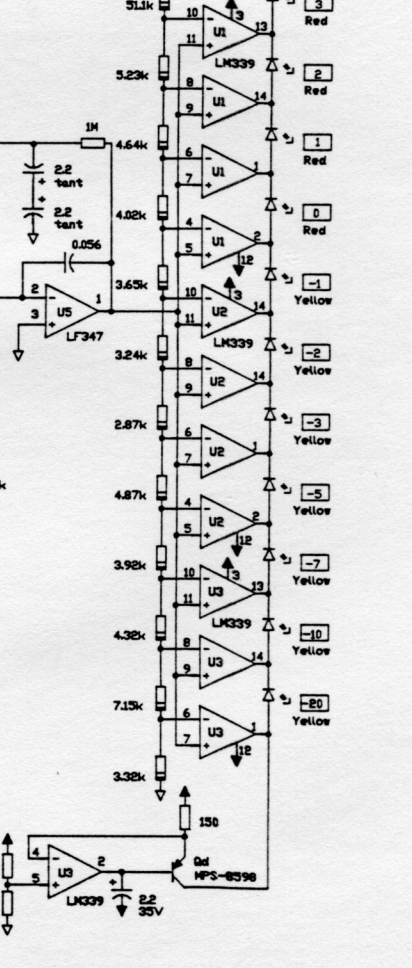
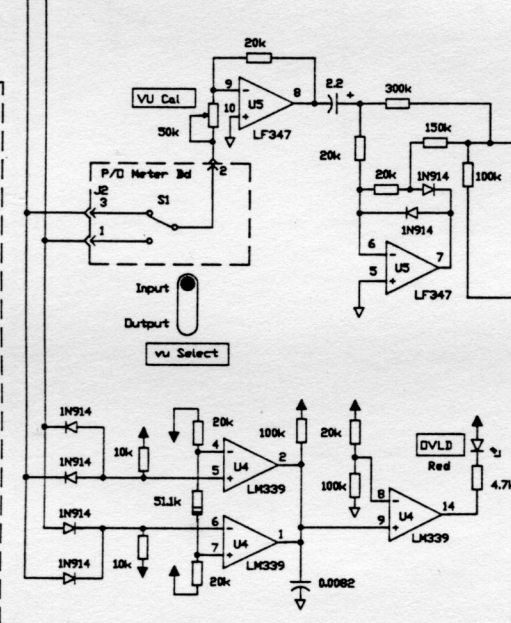
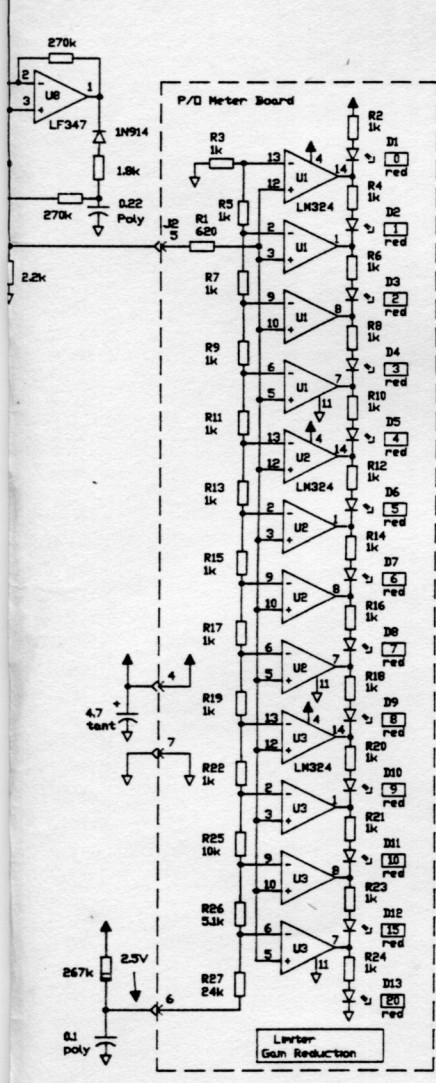
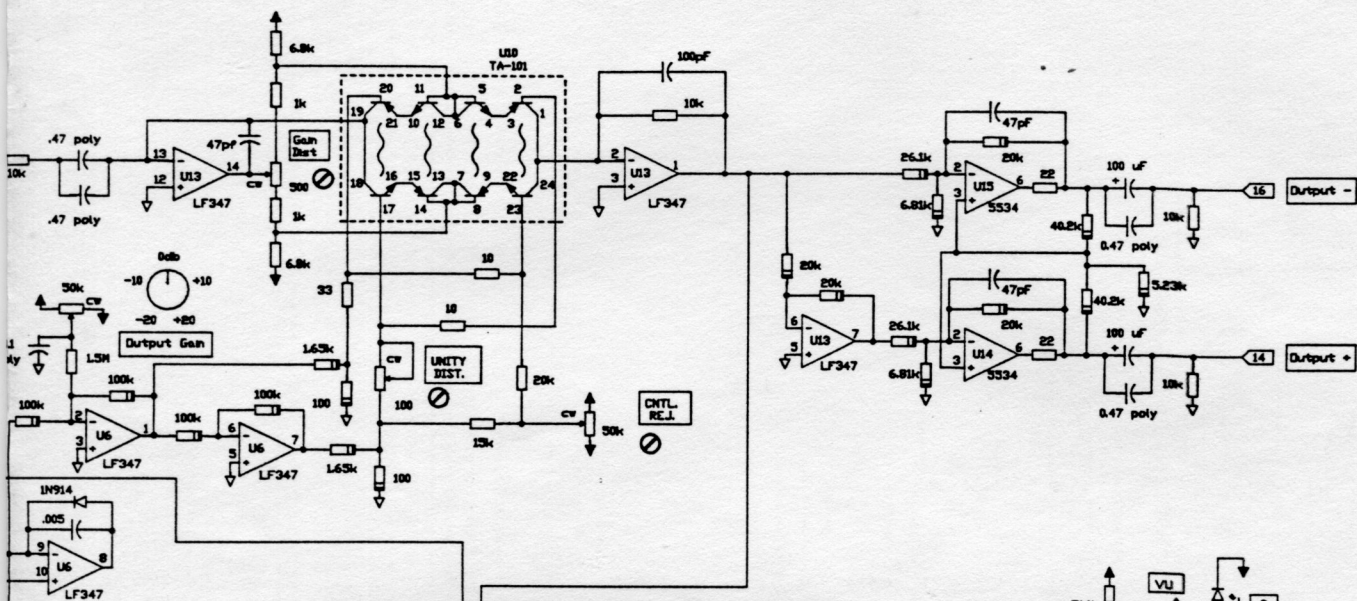
A B C D E F H J K L M N P R S T U




- Notes
- Resistance values in ohms unless specified
 - Capacitance values in uF unless specified
 - #1 Break J1 for separate signal and safety grounds
 - #2 Use J2 for 110V, J3 for 220V
 - #3 Optional - Factory selected
 - 1% metal film resistor
 - 5% carbon film resistor
 - ▲ +15V power
 - ▼ -15V power
 - ▽ Signal ground
 - ▯ Safety ground

Electronic schematic
Schematic layer
Labels layer
Special notes

V W X Y Z AA BB CC DD EE FF HH JJ KK LL



REVISIONS				 Valley People Inc.	PROJECT		
ZONE	REV.	DESCRIPTION	DATE		BY	Leveller 816	
					TITLE		
					Schematic		
					SCALE	PLDT	DRAWING NO.
					DATE 3 Oct 86	REV A	1888