

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVO-6D-B-PN-0A-M*

S.N.: *9392*

Date: *JUNE 21 2000*

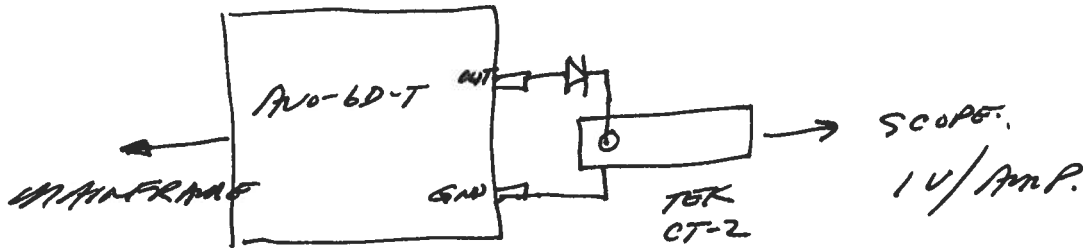
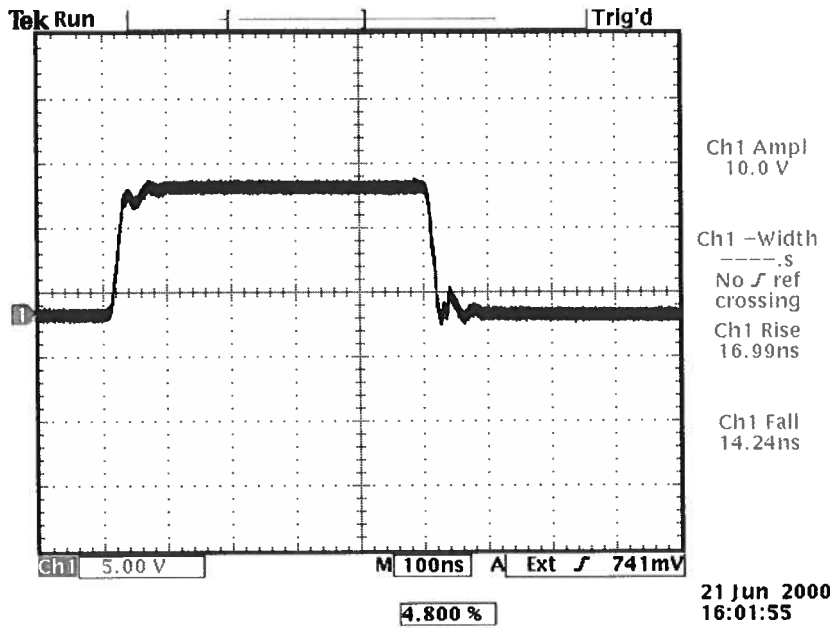
- a) Output signal amplitude:
*0 TO ± 10 AMPS TO $R_L \leq 1\Omega$
OR 0 TO ± 250 VOLTS TO $R_L \geq 50\Omega$*
- b) Pulse width:
50 NS TO 5.0 US (5 AMPS)
- c) Rise time: *0.5% MAX DUTY CYCLE.*
 ≤ 10 NS.
- d) Fall time:
 ≤ 10 NS.
- e) PRF: *0 TO 10 KHz*
(0.5% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power: *120/240 V*
50-60 Hz.



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PW \approx 0.5 μ s
PRF = 1 KHz.

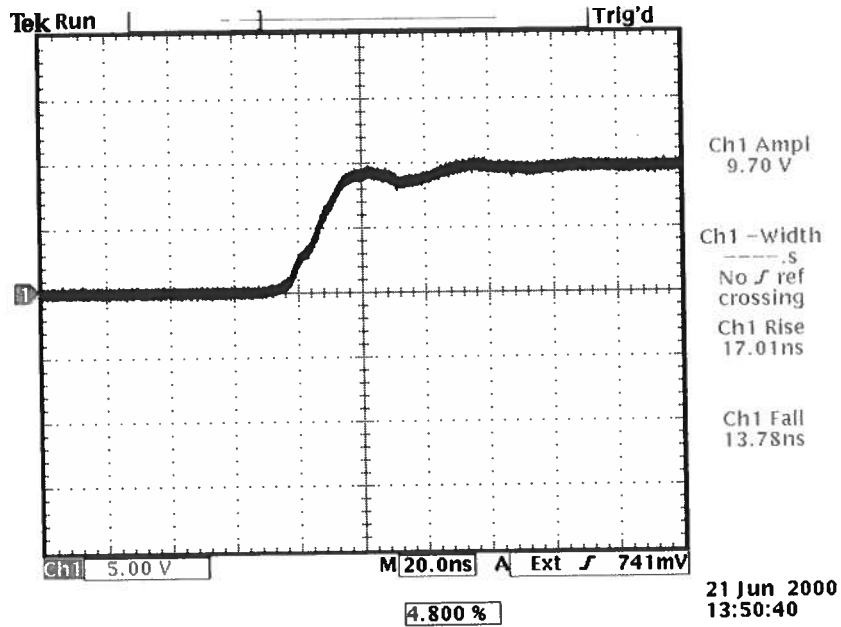
OUTPUT AMP MAX.
POSITIVE OUTPUT



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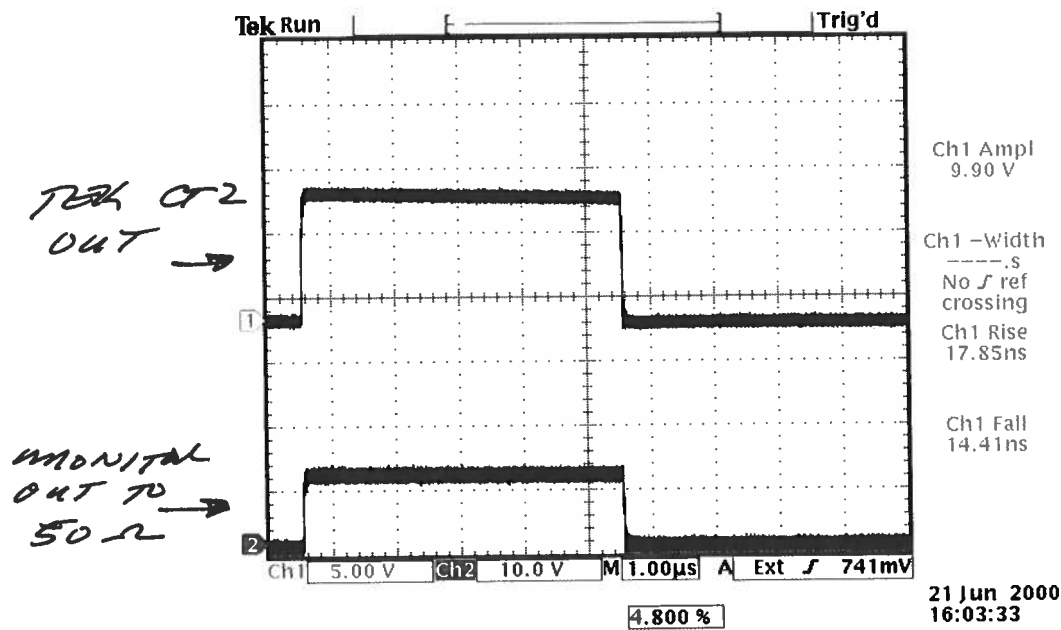
AS Ⓐ BUT 20 NS/DIV
RISE TIME. (DEGRADED
BY LOAD INDUCTANCE)



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PW AT 100V
AMP AT 100V.



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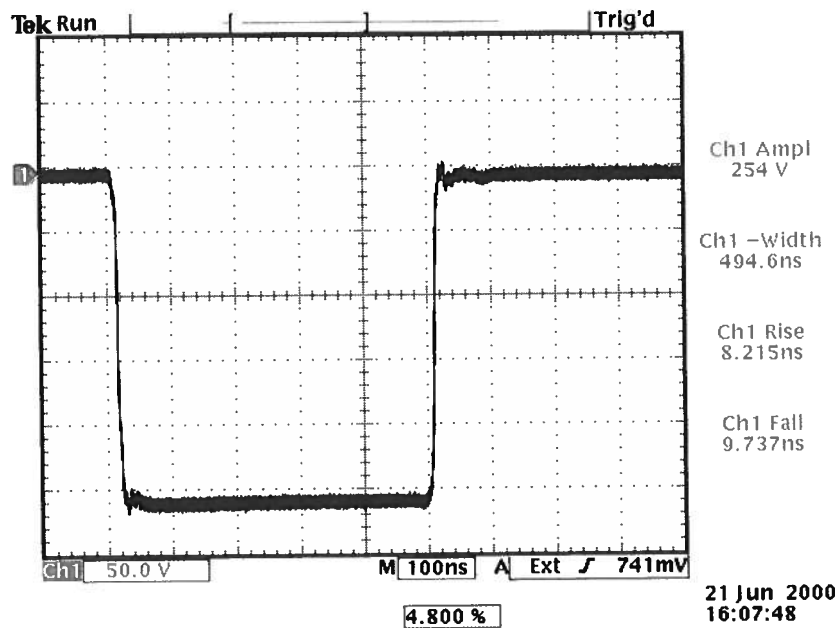
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MAINFRAME OUT TO 50 Ω
(AD-6D-T DISCONNECTED)

NEGATIVE OUTPUT

PW \approx 0.5 μ s

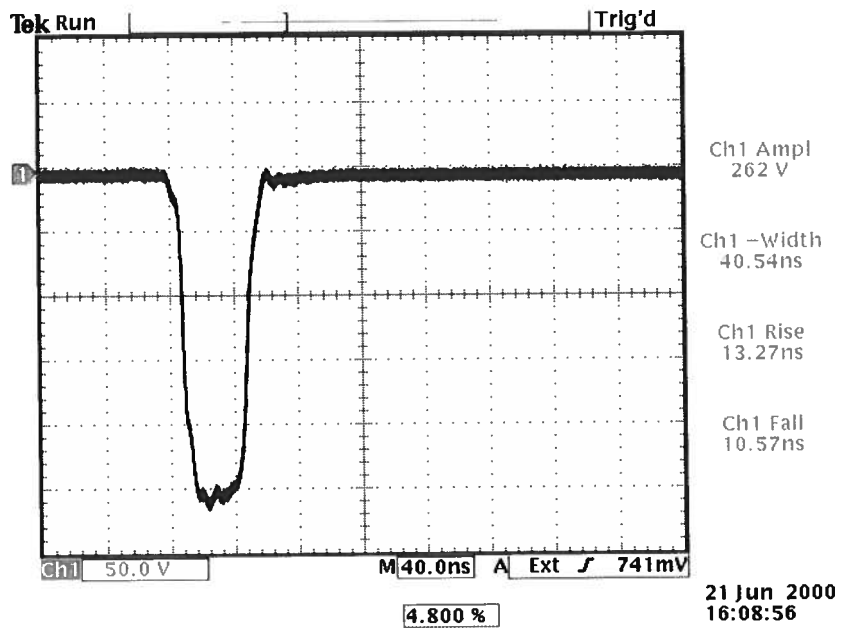
mA AMP.



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AS D BUT AT
MIN PW.



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"-B" Functional Test & Calibration Certificate

Date of test:	June 22, 2000				Tester:	MJC
Programmed model name:	AVO-6D-B-EA-M-PN					
Programmed serial number:	9392					
Firmware revision:	2.16					
Internal trigger checked at:	1 Hz	10 Hz	1 kHz	10 kHz		
Actual measured output ¹ :	0.999 Hz	10.01 Hz	1.000 kHz	9.998 kHz		
External trigger checked:	yes			Gate checked:	yes	
Trigger load resistor present:	yes					
Manual trigger checked:	yes					
Pulse compression checked:	yes					
Pulse width checked at:	50 ns	500 ns	5 us		100Hz, +120V, into 1N5819	
Actual measured output ² :	51.2 ns	505 ns	5.06 us			
PW _{in} = PW _{out} mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	0.5%					
Delay nulled:	yes					
Delay checked at:	500 ns	1 us	2 us	5 us	100Hz, +120V, into 1N5819	
Actual measured output ¹ :	512 ns	1.01 us	2.02 us	5.06 us		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-12V	-120V	+12V	+120V	100 Hz, 500ns, into a 1N5819 diode	
Actual measured output ² :	-1.00A, measured with Tektronix CT-2		-10.0A	+1.00A	+10.0 V	
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
External amplify mode:	N/A					
Ultraviolet flux removed:	N/A					
Monitor V/I Ratio:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A			Monitor offset nulled:		
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:		
Offset checked at:	N/A					
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:		
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2K, OLO		
DC fuses:	Positive:	1.0A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.43A	Max. Load:	0.56A		
AC fuse:	1A					
Photographed:	yes					

¹ Checked with: HP5370A Universal Time Interval Counter

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
 Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.