

PULSE GENERATOR
PERFORMANCE CHECK

Model: AVR-BA-B-PN-R5

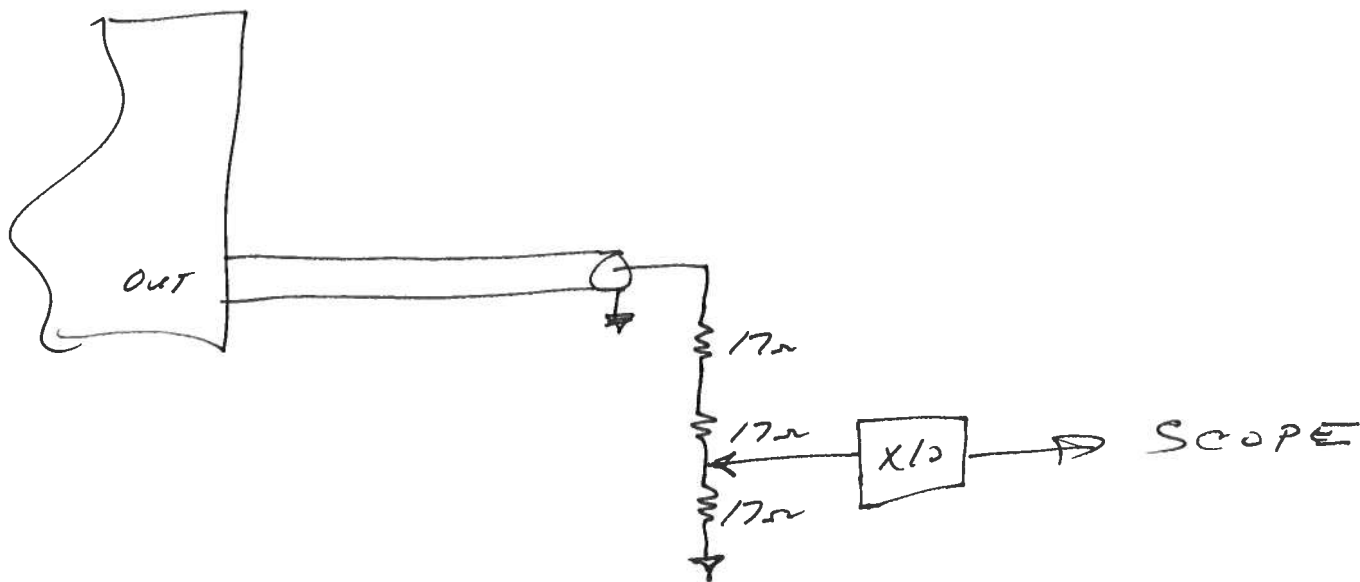
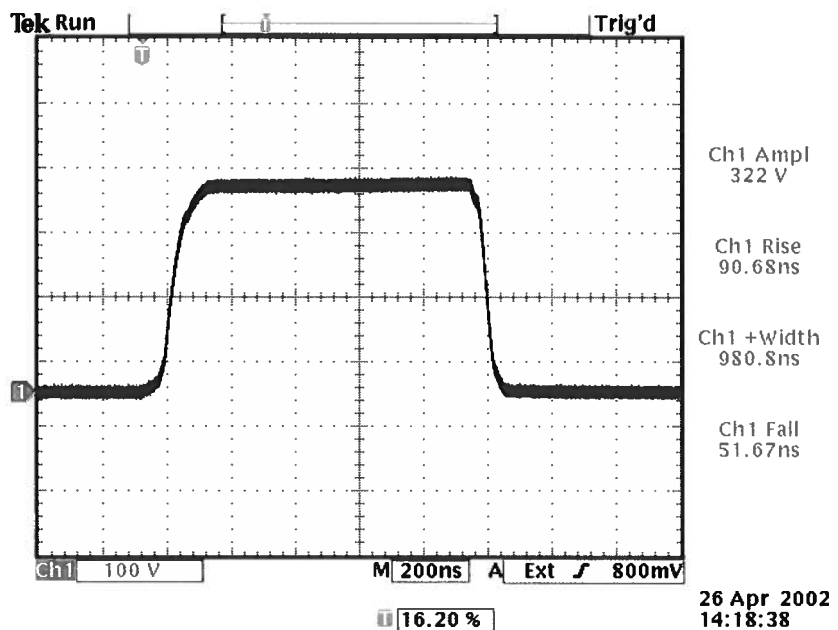
S.N.: 10232

Date: APRIL 26 2002

- a) Output signal amplitude:
0 to ± 1000 VOLTS
($R_L \geq 50 \Omega$)
- b) Pulse width:
200ns to 200 μ s
- c) Rise time:
(0.2% max DUTY cycle)
 ≤ 100 ns
- d) Fall time:
 ≤ 100 ns
- e) PRF: 0 to 1 kHz
(0.2% max DUTY cycle)
- f) Jitter, stability:
OK
- g) Prime power:
120/240 VOLT
50-60 Hz.



10232
NARROW PULSE
POS OUT.
 $R_c = 50\Omega$



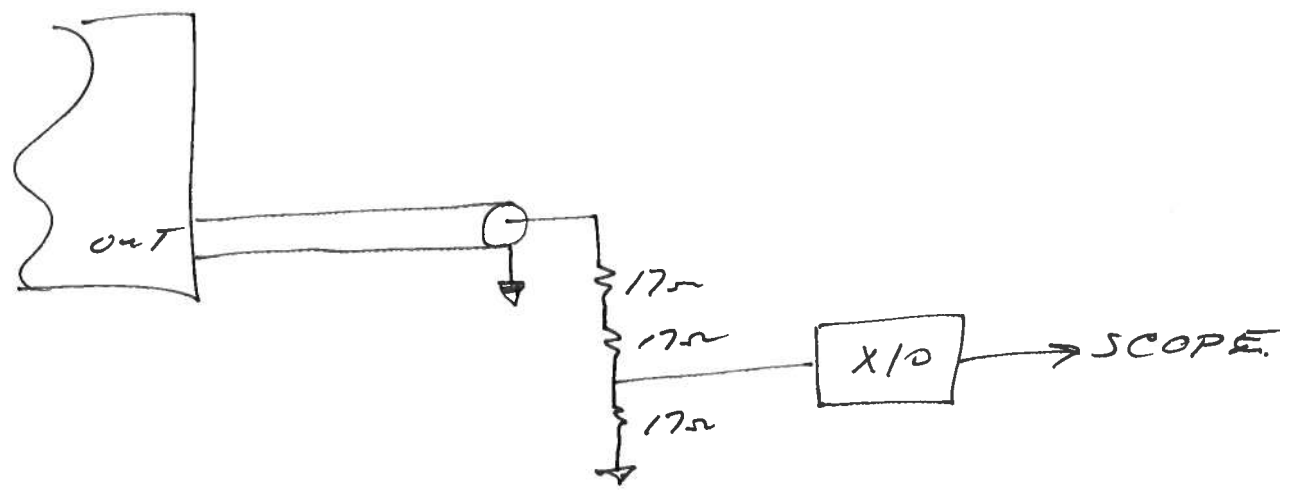
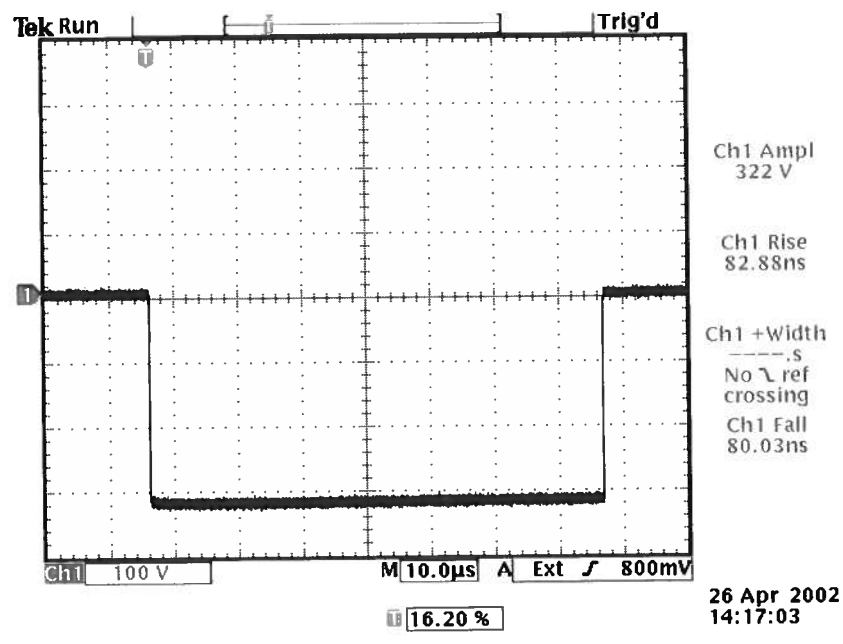
(B)

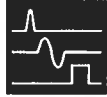
10232

WIDE PULSE

NEGATIVE OUT

$R_L = 50\Omega$



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| | | | | | | | |
|---------------------------------------|----------------|-------------------------------------|------------|------------------------------------|-------------------------------|---------------|-----|
| Date of test: | April 26, 2002 | | | | Tester: | MJC | |
| Programmed model name: | AVR-8A-B-PN-R5 | | | | | | |
| Programmed serial number: | 10232 | | | | | | |
| Firmware revision: | 2.39 | | | | | | |
| Temp, RH: | 23.6°C, 28.0% | | | | | | |
| Internal trigger checked at: | 1 Hz | 10 Hz | 100 Hz | 1 kHz | | | |
| Actual measured output ¹ : | 1.006 Hz | 10.09 Hz | 100.7 Hz | 1.004 kHz | | | |
| External trigger checked: | yes | | | | | Gate checked: | yes |
| Manual trigger checked: | yes | | | | | | |
| Pulse compression checked: | yes | Low Amplitude PW Distortion Nulled: | | | N/A | | |
| Pulse width checked at: | 200 ns | 2 us | 20 us | 200 us | 1 Hz, +1000V, into 50 Ohms | | |
| Actual measured output ² : | 199 ns | 2.01 us | 20.3 us | 202 us | | | |
| PWin = PWout mode checked: | yes | DC mode checked: | | | | N/A | |
| Duty Cycle Limit: | 0.2% | | | | | | |
| Delay nulled: | yes | | | | | | |
| Delay checked at: | 200 ns | 2 us | 20 us | 200 us | 1 Hz, +1000V, into 50 Ohms | | |
| Actual measured output ¹ : | 200 ns | 2.02 us | 20.2 us | 202 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: | -100V | +200V | -500V | +1000V | 10 Hz, 2 us, into 50 Ohms | | |
| Actual measured output ² : | -101V | +202V | -504V | +999V | | | |
| Amplitude polarity: | +/- | | | | | | |
| Zout calibration: | N/A | | | | | | |
| Electronic amplitude control: | N/A | | | | | | |
| External amplify mode: | N/A | | | | | | |
| Ultravolt flux removed: | N/A | | | | | | |
| Monitor V/I Ratio: | N/A | | | Monitor offset nulled: | | | |
| LCD Monitor calibrated: | N/A | | | | | | |
| 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: | 108E | | | |
| Overload Trigger Resistance: | Trips at: | N/A | Installed: | 2k, 1000uF | | | |
| DC fuses: | Positive: | 2.5A | Negative: | N/A | | | |
| AC Current at 115 VAC: | Quiescent: | 0.42A | Max. Load: | 1.0A | | | |
| AC fuse: | 1.5A | | | | | | |
| 120/240V operation: | OK | | | Fan operational: | | | yes |
| Photographed: | yes | | | | | | |

¹ Checked with: Fluke PM6681 Counter (S/N 9446 066 81016),
referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope (S/N B014783) for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system (Cal. Label 112506) for PW < 5 ns.