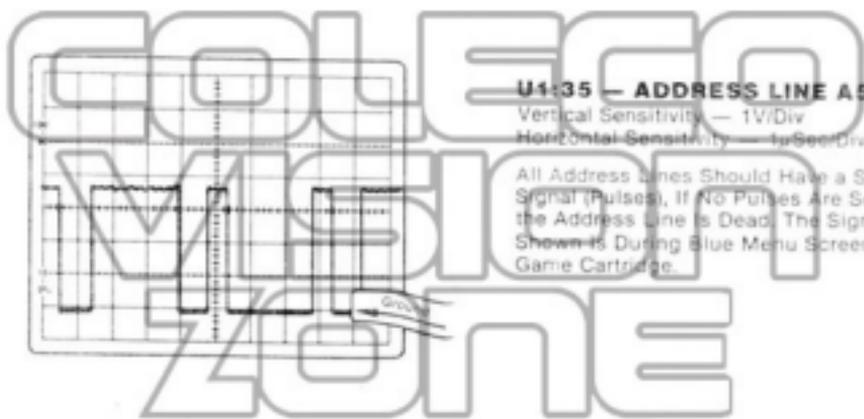


U1:28 — RSFH

Vertical Sensitivity — 1V/Div

Horizontal Sensitivity — 5 μ Sec/Div

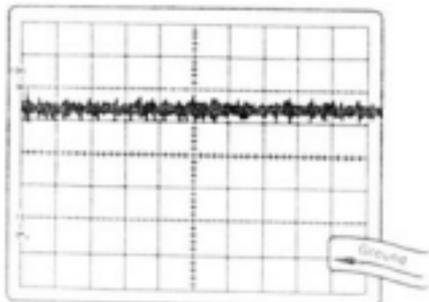


U1:35 — ADDRESS LINE A5

Vertical Sensitivity — 1V/Div

Horizontal Sensitivity — 4 μ Sec/Div

All Address Lines Should Have a Similar Signal (Pulses). If No Pulses Are Seen the Address Line is Dead. The Signal Shown is During Blue Menu Screen of Game Cartridge.

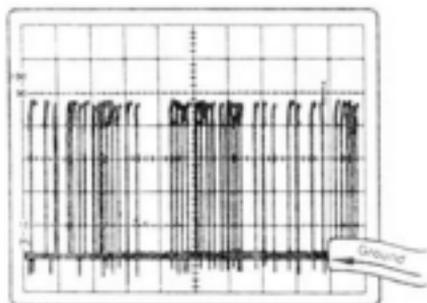


U6:5 GATE 2B

Vertical Sensitivity — 50mV/Div

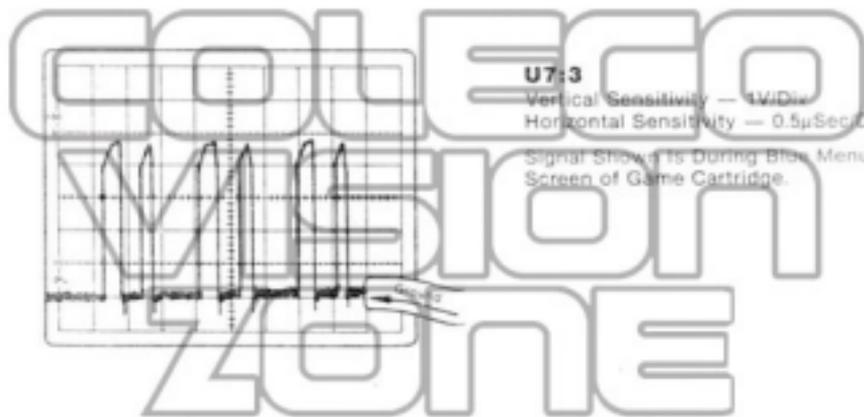
Horizontal Sensitivity — 0.2 μ Sec/Div

Signal Should Be a DC Level Less Than 250mV.


U7:3

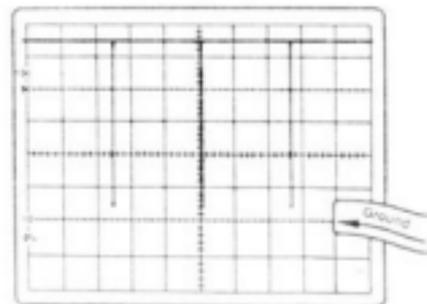
Vertical Sensitivity — 1V/Div

 Horizontal Sensitivity — 2 μ Sec/Div

 Signal Shown is During Blue Menu
Screen of Game Cartridge.

U7:3

Vertical Sensitivity — 1V/Div

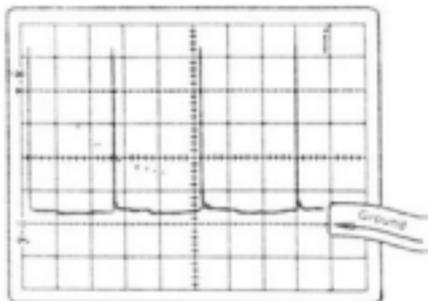
 Horizontal Sensitivity — 0.5 μ Sec/Div

 Signal Shown is During Blue Menu
Screen of Game Cartridge.

U7:8 INTERRUPT

Vertical Sensitivity — 1V/Div

 Horizontal Sensitivity 500 μ Sec/Div

 Signal Shown is with Spinner Interface
Tester in Operation.

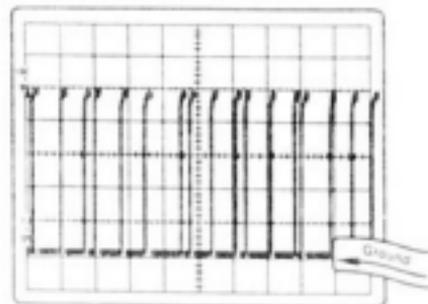

U7:9

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 500 μ Sec/Div

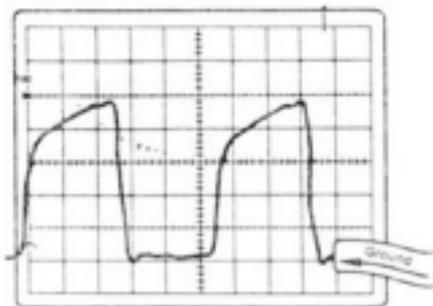
Signal Shown is with Spinner Interface Tester in Operation


UB:1 M1

Vertical Sensitivity — 1V/Div
Horizontal Sensitivity — 0.5 μ Sec/Div

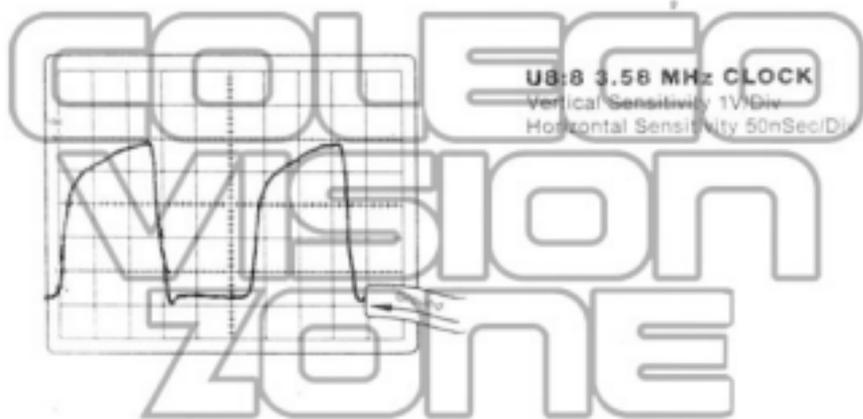

UB:1 M1

Vertical Sensitivity — 1V/Div
Horizontal Sensitivity — 5 μ Sec/Div

**UB:3 3.58 MHz CLOCK**

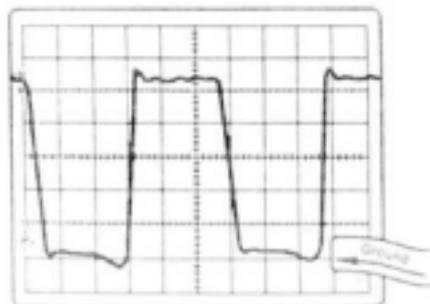
Vertical Sensitivity 1V/Div

Horizontal Sensitivity — 50nSec/Div

**UB:8 3.58 MHz CLOCK**

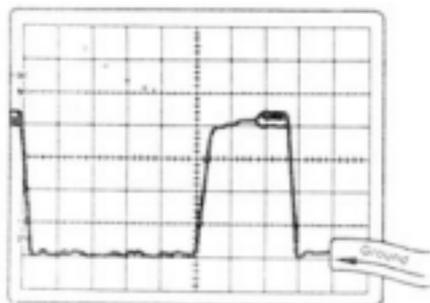
Vertical Sensitivity 1V/Div

Horizontal Sensitivity 50nSec/Div

**UB:9 3.58 MHz CLOCK**

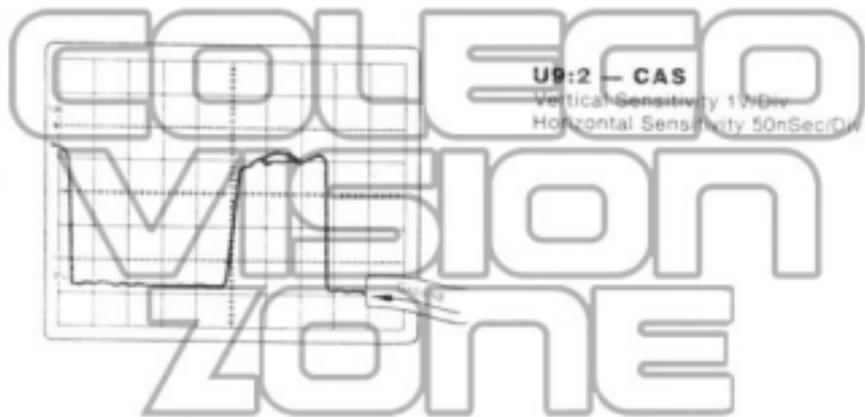
Vertical Sensitivity 1V/Div

Horizontal Sensitivity 50nSec/Div



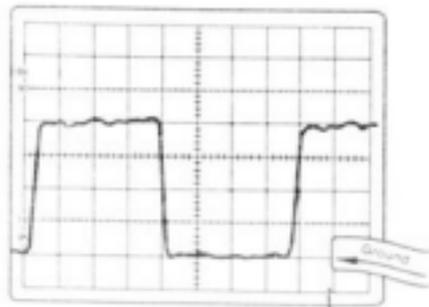
U9:1 — RAS

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 50nSec/Div



U9:2 — CAS

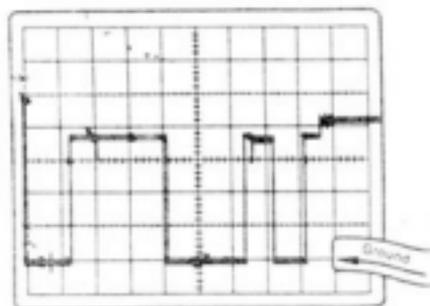
Vertical Sensitivity 1V/Div
Horizontal Sensitivity 50nSec/Div



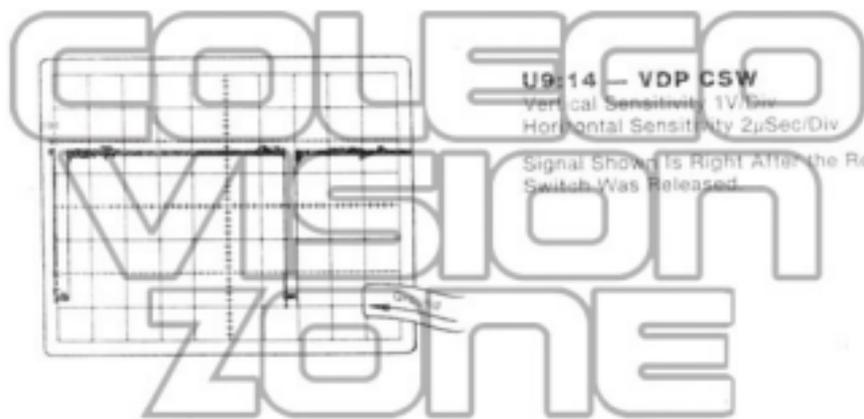
U9:3 — VDP ADDRESS LINE A7

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 50nSec/Div

All VDP Address Lines Should Have Similar Waveforms (Pulses). If No Pulses Are Seen the Address Line Is Dead.

**U9:13 — MODE A ϕ**

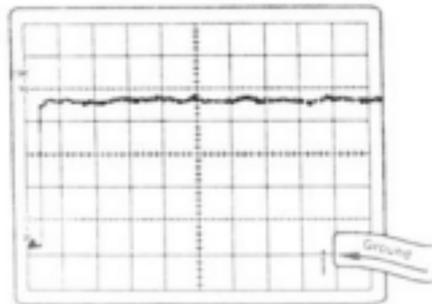
Vertical Sensitivity 1V/Div

Horizontal Sensitivity 0.1 μ Sec/Div**U9:14 — VDP CSW**

Vertical Sensitivity 1V/Div

Horizontal Sensitivity 2 μ Sec/Div

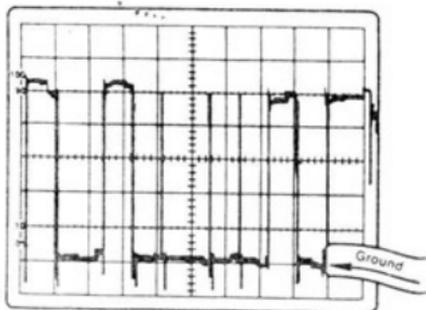
Signal Shown is Right After the Reset Switch Was Released

**U9:15 — VDP CSR**

Vertical Sensitivity 1V/Div

Horizontal Sensitivity 2 μ Sec/Div

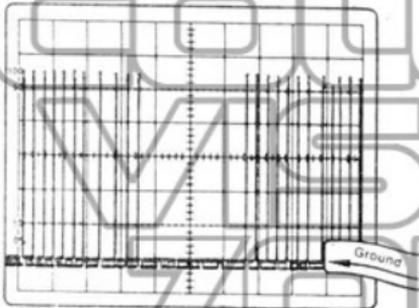
Signal Shown is During Game Play of a Game Cartridge. The Negative Pulse May or May Not Be Present. Negative Pulses Are Always Present Although Sometimes They Are Too Fast for the Oscilloscope.



U9:17 — DATA LINE D7

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 1 μ Sec/Div

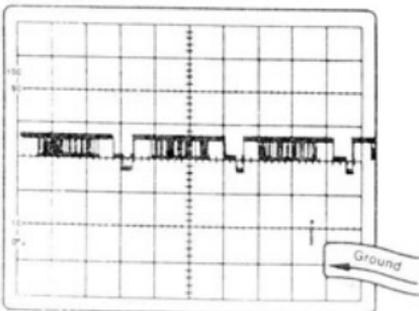
Signal Shown Is During Blue Menu Screen of Game Cartridge. All the Data Lines Should Have a Similar Waveform, If Not, the Data Line Is Dead.



U9:25 — VDP DATA LINE RD7

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 0.1mSec/Div

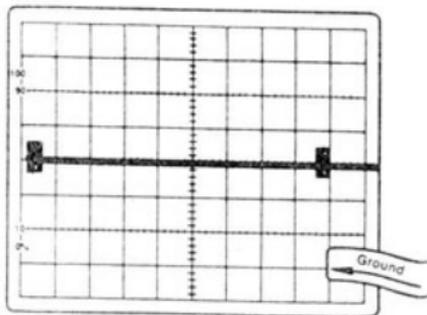
Signal Shown Is During Blue Menu Screen of Game Cartridge. All Data Lines Should Have a Similar Waveform, If Not the Data Line Is Dead.



U9:35 — B-Y VIDEO OUTPUT

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 20 μ Sec/Div

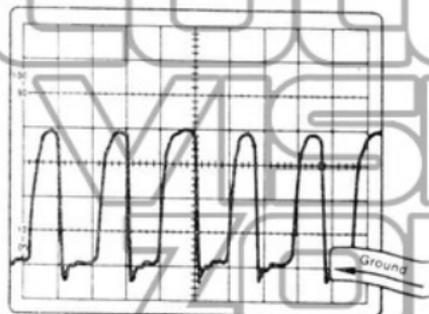
Signal Shown Is During Blue Menu Screen of Game Cartridge.



U9:38 — R-Y VIDEO OUTPUT

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 2mSec/Div

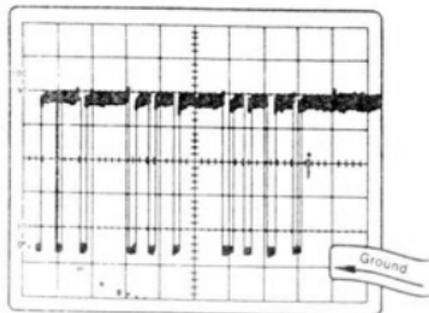
Signal Shown Is During Blue Menu
Screen of Game Cartridge.



U9:40 — VDP CLOCK

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 50nSec/Div

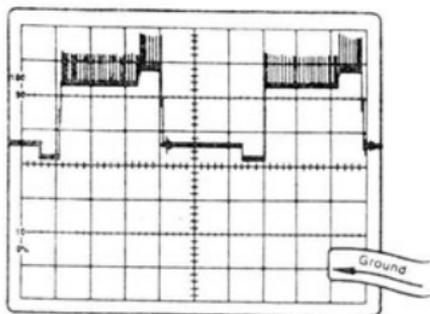
Frequency 10.7MHz



U20:5, 6

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 0.5mSec/Div

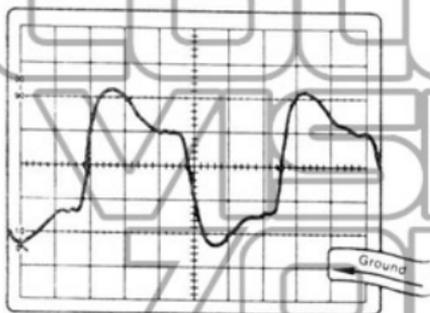
Signal Shown Is During Game Play of a
Game Cartridge.



U20:7 — AUDIO OUTPUT

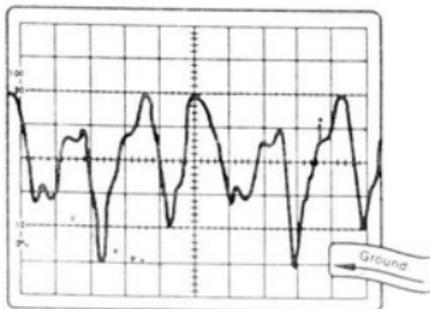
Vertical Sensitivity 0.5V/Div
Horizontal Sensitivity 10mSec/Div

Signal Shown Is During Game Play of a Game Cartridge. This Signal Will Vary Depending on the Sound.



U20:14 — SOUND GENERATOR CLOCK

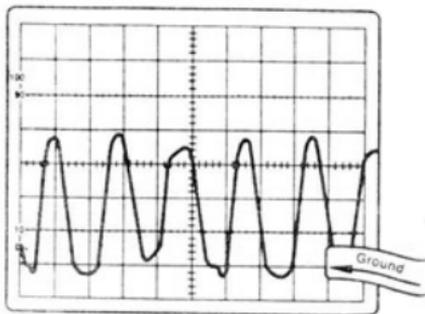
Vertical Sensitivity 0.5V/Div
Horizontal Sensitivity 0.5 μ Sec/Div



U22:1 INPUT TO THIRD HARMONIC WAVE SHAPER

Vertical Sensitivity 0.5V/Div
Horizontal Sensitivity 5 μ Sec/Div

Signal Shown Is with C91 Installed. C91 Is Not in All Revisions. The Waveform Will Vary Slightly with C91 Removed.



U22:3

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 5 μ Sec/Div

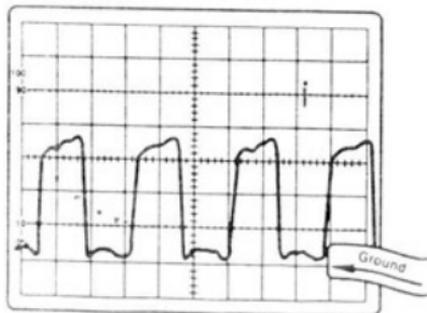
Signal Shown Is with C91 Installed.
C91 Is Not in All Revisions. The
Waveform Will Vary Slightly with C91
Removed.



U22:4

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 5 μ Sec/Div

Signal Shown Is with C91 Installed.
C91 Is Not in All Revisions. The
Waveform Will Vary Slightly with C91
Removed.



U22:8 7.159 MHz CLOCK

Vertical Sensitivity 1V/Div
Horizontal Sensitivity 5 μ Sec/Div