LOGIC (Continued)

zeare (commutati)								
PIN NO.	IC U614	IC U615	IC U616	LEAD	Q200	Q201	Q300	Q301
1 2 3 4	P P P	P P P	P P P	E B C	P P P	P P H	H H H	P P H
5 6 7 8	P P P	P P P	P P P					
9 10 11 12	P L P	P L P	P L P P					
13 14 15 16	P P P	P P P	P P P					
17 18 19 20	Р Р Н	Р Р Н	Р Р Н					

NOTE: Logic probe readings taken with computer in Power Up mode (Main title screen displayed) unless otherwise noted.

Logic Probe Display

L = Low

H = High

P = Pulse

SAFETY PRECAUTIONS

- 1. Use an isolation transformer for servicing.
- 2. Maintain AC line voltage at rated input.
- 3. Remove AC power from the computer before servicing or installing electrostatically sensitive devices. Examples of typical ES devices are integrated circuits and semiconductor "chip" components.
- 4. Use extreme caution when handling the printed circuit boards. Some semiconductor devices can be damaged easily by static electricity. Drain off any electrostatic charge on your body by touching a known earth ground. Wear a commercially available discharging wrist strap device. This should be removed prior to applying power to the unit under test.
- 5. Use a grounded-tip, low voltage soldering iron.
- 6. Use an isolation (times 10) probe on scope.
- 7. Do not remove or install boards, floppy disk drives, printers, or other peripherals with computer AC power On.
- 8. Do not use freon-propelled sprays. These can generate electrical charges sufficient to damage semiconductor devices.
- 9. This computer is equipped with a grounded three-pronged AC plug. This plug must fit into a grounded AC power outlet. Do not defeat the AC plug safety feature.
- 10. Periodically examine the AC power cord for damaged or cracked insulation.
- 11. The computer cabinet is equipped with vents to prevent heat build-up. Never block, cover, or obstruct these vents.
- 12. Instructions should be given, especially to children, that objects should not be dropped or pushed into the vents of the
- cabinet. This could cause shock or equipment damage.

 13. Never expose the computer to water. If exposed to water turn the unit Off. Do not place the computer near possible water 99,445
- 14. Never leave the computer unattended or plugged into the AC outlet for long periods of time. Remove AC plug from AC outlet OUTRICE during lightning storms.
 15. Do not allow anything to rest on AC power cord.
 16. Unplug AC power cord from outlet before cleaning computer.
 17. Never use liquids or aerosols directly on the computer. Spray on cloth and then apply to the computer cabinet. Make sure the computer is disconnected from the AC power line.

- computer is disconnected from the AC power line.

LINE DEFINITIONS

A0 Thru A15	MEMEN Memory Enable R/W Read/Write RAM BLK RAM Blanking RAS Row Address Strobe READY Ready for Memory Access RESET Reset Computer and Peripherals ROMEN ROM Enable RST Reset Speech Block Enable SGC CLK Central Processing Unit Clock SND IN Audio Input SND OUT Audio Output SPEECH Speech Synthesizer Input SYS RDY System Ready VDP INT Video Display Processor Interrupt WE Write Enable Ø1 Phase One
DLY RST Delayed Reset	
GROM CLKGraphics ROM Clock	WEWrite Enable

Any Bar above any alphabetical or numerical combination indicates line active in a low (0) state.

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