

PRELIMINARY SERVICE CHECKS (Continued)

SERVICE CHECKS

SEE INTERCONNECTING DIAGRAM, PLACEMENT CHART, AND PHOTOS TO MATCH THE NUMBER IN THE CIRCLES WITH THOSE IN THE FOLLOWING DATA FOR SERVICE CHECKS TO BE PERFORMED.

① RF MODULATOR

- (a) Power computer and verify the power indicator LED is lit. NOTE: If the power indicator LED is not lit, refer to the "Power Supply Check" section.
- (b) Verify the channel select switch is on the same channel as the monitor, channel 3 or 4.
- (c) Verify the TV/modulator switch is in modulator position.
- (d) Check for bad connections and improper hook-up at the monitor and at the computer.
- (e) If the computer still does not come up when powered, check the RF Modulator by substitution.

② POWER SUPPLY

- (a) Power computer and measure the AC voltages, from the secondary of the Power Transformer (T1), on the power supply board. If there is no AC voltage, replace AC adaptor.
- (b) Disconnect P2 from power supply board. Measure the DC voltages at P2.
- (c) Measure the Regulator B+ voltage (21.5V) at L6. If the voltages are not present or are incorrect, replace or repair the power supply board.

③ MAIN BOARD

- (a) Computer does not come up when powered. Check for -5.15V at pin 1, 5.14V at pins 2, 33, 59 and 64, and 11.84V at pin 27 of the Microprocessor IC U600. Verify the Timing Generator is functioning, by checking for pulses on pins 8, 9, 25, and 28 of the Microprocessor IC U600 using a logic probe.

- (b) No sound, substitute the Sound Generator IC U511.
- (c) Video problems, substitute the Color Graphics Video Display IC U100.
- (d) Monitor remains blank when the computer is turned On. Substitute a monitor known to be good. Substitute GROM IC U500 and Video IC U100.
- (e) Monitor displays insert cartridge after pressing the number 1 key. Substitute GROM IC U501.
- (f) If there is no line feed when pressing the ENTER key, substitute GROM IC U502.
- (g) Remote control line will not turn on CS1. Remove power to computer and check the resistance from the emitter to collector of Q401. The resistance should read low during the time the recorder is suppose to be running and open when not running. If these readings are correct check the cassette recorder.
- (h) Check the resistance reading from the emitter to collector of Q403 if CS2 will not turn On.
- (i) Keyboard fails to function. Disconnect the keyboard connector P100. Power computer and check the voltage and logic readings at J100. If the readings are correct, check the keyboard.

④ KEYBOARD

Substitute the keyboard or locate the bad key and clean the key switch with switch cleaner.

TEST EQUIPMENT AND TOOLS

TEST EQUIPMENT

Digital Volt/Ohm Meter
Logic Probe

TOOLS

Phillips Screwdriver
Small Screwdriver
Soldering Iron
Switch Cleaner

REPLACEMENT PARTS

AC Adaptor Model AC9500

IC	TYPE NO.
U100	TMS9918A
U500	CD2155NL
U501	CD2156NL
U502	CD2157NL
U511	SN94624N