

TITLE: REDUCTION OF TRANSIENTS DURING WAKE-UP

I. APPLICABILITY

ATR-100 - All versions

II. PURPOSE

To reduce transients generated when the wake-up line comes on.

III. DISCUSSION

When AC power is applied to the machine there is a 3 to 5 second pause before the wake-up line comes on. When the wake-up line goes high, a transient is generated that can peg the VU meter. This modification should also reduce the power-up and power-down transients.

IV. PARTS AND TOOLS NEEDED

1 each Resistor, 220 ohm, 1/4W, 5%, Comp. (P/N 066-663)

1 each Resistor, 510 ohm, 1/4W, 5%, Comp. (P/N 066-664)

1 each Capacitor, 47 MFD, 6V, Tantalum (P/N 037-298)

Soldering Iron

Common Technicians Hand Tools

V. PROCEDURE

On the audio control PWA (Bd. No. 5), Part No. 4050788-xx, remove the four screws that secure the PWA to the shield. Locate and identify R11 located between A5 and A6. Remove the 1K resistor and replace with a 510 ohm resistor. Turn the board over and on the circuit side locate the circuit for A5 and A6. The two traces from pins 12 and 13 of A5 go to the pads for R11, 12 and 13. Install a 220 ohm resistor across pins 12 and 13 of A5 at these pads, keeping the leads as short as possible (see attached drawing).

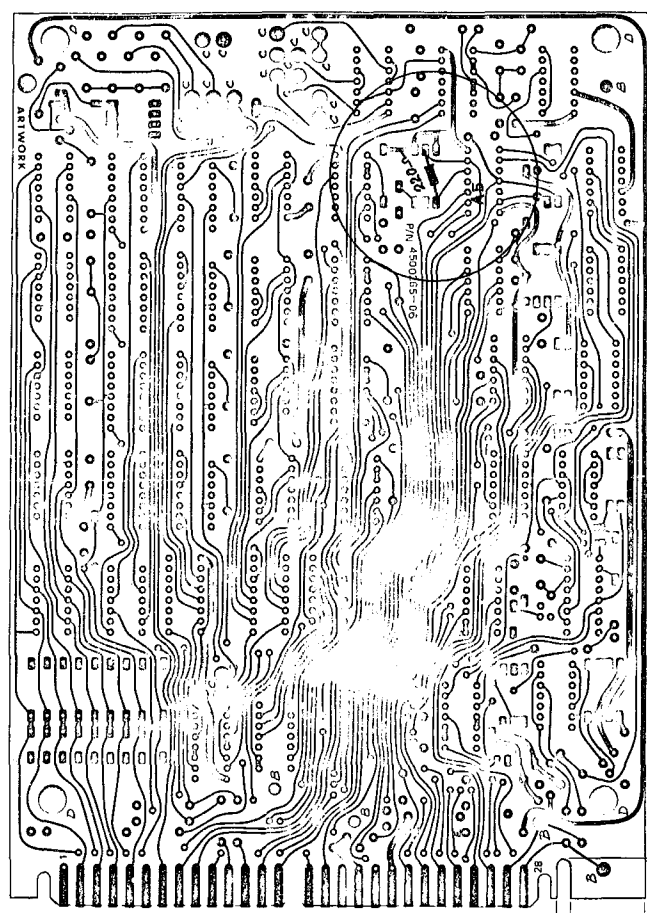
On the transport logic PWA (Bd. No. 7), Part No. 4050787-xx, remove the four screws securing the shield and locate C12 adjacent to Q2. Replace with a 47 MFD, 6V tantalum capacitor.

This completes the modification.

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REF. NO. 70195
 MODEL ATR-100
 PAGE 2 OF 2
 SUPERSEDES
 DATE OF ISSUE 1/78



- NOTES: UNLESS OTHERWISE SPECIFIED:
 1. PART NO. IS 4500265-06.
 2. ARTWORK ISSUE LETTER IS "J".
 3. MARK VENDOR IDENTIFICATION CODE
 4. ALL UNCODED HOLES ARE CODE SYMBOL "A".
 5. FABRICATE PER DRAWING NO. 4500265.

| REV | DATE | DESCRIPTION |
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| 1 | 7/3-012 | TERMINAL STUD, TURRET SWAGE |
| 2 | 5/23-724 | PLASTIC LAMINATE, CU CLAD, PER 022-1 |

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AMPEX
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 AUDIO CONTROL
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