

Professional Audio Service Bulletin



Bulletin No.
Date

Bulletin No. 20

SUBJECT: Modification To Mute Signal Electronics When In Stop Mode

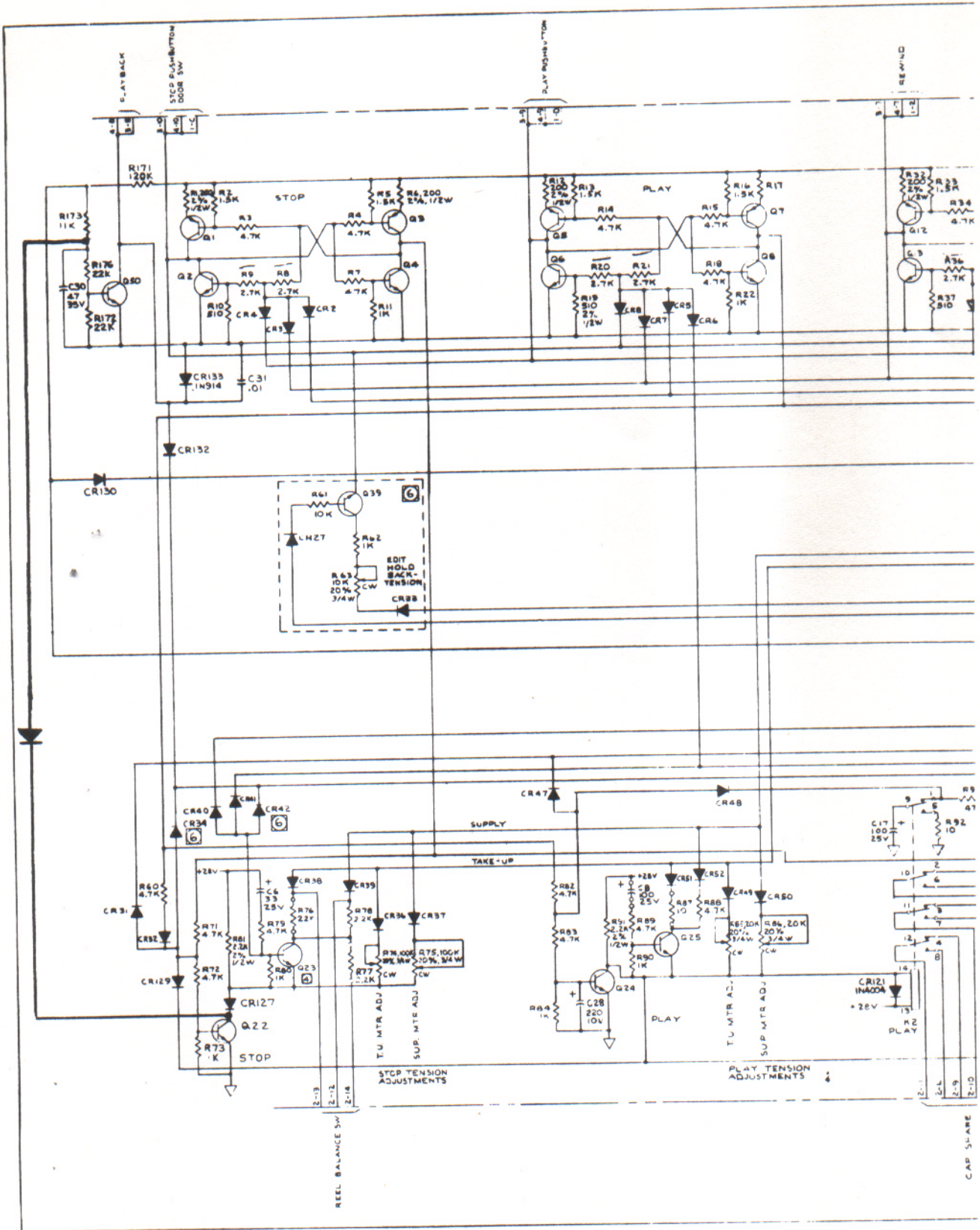
APPLICABLE TO: 8, 16 and 24 track M-79 recorders

PARTS NEEDED: 1N914 Diode Catalog No. 83-1530-0083-7 \$.60
1 EA.

PROCEDURE:

- 1) Remove logic pc Board from recorder.
- 2) Install 1N914 diode from collector of Q-22 to junction of R-173 and R-176. (cathode of diode to collector of Q-22) see Fig. 1. Use tubing on leads of diode.
- 3) Install logic pc board into recorder.
- 4) Thread a roll of tape onto the recorder which has a signal recorded on it and press stop button.
- 5) Manually move tape back and forth. Signal from tape should not be heard nor appear on meters.
- 6) Press mute defeat switch and repeat step five. Signal should be heard and should appear on meters.
- 7) This mod will not effect the monitoring of input signals.

.N914



STOP MUTE MODIFICATION

FIGURE 1

Professional Audio Service Bulletin



BULLETIN NUMBER 21

Bulletin No.
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SUBJECT: Modification Effecting Erase Set Up Voltage At Test Point "1" on Signal Electronic Cards

APPLICABLE TO: All M-79 Recorders
Special Emphasis To 24 Track

PURPOSE: To Prevent Erroneous Bias Failure Indications (Blinking of Record Lights)

EXPLANATION: Due to normal aging of the vactec (L.D.R.), the bias signal at the output of the erase amplifier can fall below the warning circuit threshold. This causes the record lamps to flash without affecting the recording process. This would be more likely to occur on a 24 track recorder since the erase level is set for 1 volt RMS, and the warning threshold is approximately 0.8 volts RMS. This threshold voltage can vary from card to card due to component tolerances.

SOLUTION: Effective with M-79 serial number 500, resistor R-39 (27 ohm) was changed to a 56 ohm resistor. This raises the erase set up level from 1 volt RMS to 2 volts RMS for a 24 track recorder and from 1.2 volt RMS to 2.4 volts RMS for all other track configurations. This change also increases the usable life of the vactec.

PROCEDURE: Replace R-39 on the signal electronics PCB with a 56 ohm ¼ watt resistor Mincom catalog number 83-1520-0349 or equivalent, change your manual set up procedure, page 4-13 section 4-41 step 4 to read 2.0 volt RMS for 24 track and 2.4 volts RMS for other recorders.

November, 1976

22

Professional Audio Service Bulletin



BULLETIN NO. 22

SUBJECT: Logic Board Flip-Flop resistor changes

APPLICABLE TO: All M-79 Logic Boards used with Selectake II

PURPOSE: To assure proper latching of mode control flip-flops.

REQUIRED PARTS: 8 ea. 1.2K ohm, 1/4W resistor, 83-1520-0363-4
4 ea. 240 ohm, 1/4W resistor, 83-1520-0358-4
1 ea. 3.0K ohm, 1/4W resistor, 83-1520-7313-2
4 ea. 39 ohm, 1W resistor, 83-9520-4122-2

PROCEDURE:

1. Replace R8, R9, R20, R21, R36, R41, R47 and R52 with the 1.2K ohm resistors.
2. Replace R10, R19, R37 and R48 with the 240 ohm resistors.
3. Replace R31 with the 3.0K ohm resistor.
4. Add the 39 ohm resistors in series with the following traces on the component side of the board.
 - a. J3-10 to Q1, Q2
 - b. J3-9 to Q5, Q6
 - c. J3-7 to Q12, Q13
 - d. J3-6 to Q16, Q17

5. If this recommended change is incorporated, please alter the Logic Board schematic diagram to reflect this change.

NOTE: This change on the Logic Board must be done in conjunction with the change affecting the Selectake II Processor Board. See Service Bulletin number 23.

Professional Audio Service Bulletin

3M

#23

BULLETIN NO. 23

CT: Selectake II Processor Board Changes

APPLICABLE TO: All Selectake II's

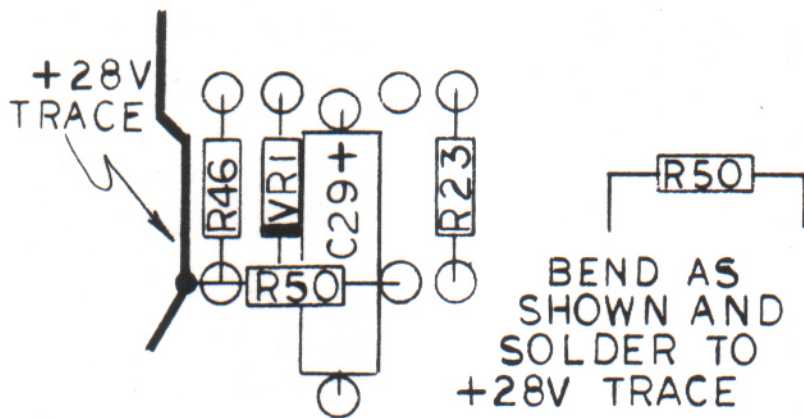
PURPOSE: To assure proper latching of mode control flip-flops on logic board.

RECOMMENDED PARTS: 1 ea. 20K ohm, 1/4W resistor, 83-1520-7259-7
1 ea. 12V Zener Diode 1N963B, 83-1530-0252-8

PROCEDURE:

Applicable to "A" versions. Serial numbers 100 - 199.

1. Remove R50.
2. Install 20K ohm resistor as shown in figure 1.



3. Replace VR1 with 12V Zener

APPLICABLE TO "B" versions. Serial numbers 200 and above.

4. Replace R50 with 20K ohm resistor
5. Replace VR1 with 12V Zener

When this recommended change is incorporated, please alter the schematic diagram to reflect this change.

Professional Audio Service Bulletin



Bulletin No.
Date

#24

SEPTEMBER, 1978

SUBJECT:

Logic Board "Cutout" Circuit Modification

APPLICABLE TO:

All M-79 Logic Boards

PURPOSE:

To prevent short term or false triggering of "end of tape" sensor.

REQUIRED PARTS:

1 ea. 10K ohm, 1/4W resistor 83-1520-7308-2
2 ea 0.1 microfarad, 200V capacitor 83-1510-4499-3

PROCEDURE:

1. Replace R143 with the 10K ohm resistor
2. Solder one of the 0.1 microfarad capacitors across R143.
3. Solder the other 0.1 microfarad capacitor from base to collector of Q33.

WT/MINCOM DIVISION

Professional Audio Service Bulletin

3M

Bulletin No.
Date

BULLETIN NO. 25

SUBJECT: Modification of Master Remote Ass'y and
Signal Electronics P.C. Boards.

APPLICABLE TO: All M79 8, 16 and 24 Track Recorders

PURPOSE: To allow any channel, armed in Record, to remain in 'A',
or Input Monitor, when Play-Record has been terminated
by Stop. Automatically switches to 'B' when Play is
entered and remains in 'B' until Play-Record is re-initiated.

REQUIRED PARTS:

A. Master Remote Ass'y.

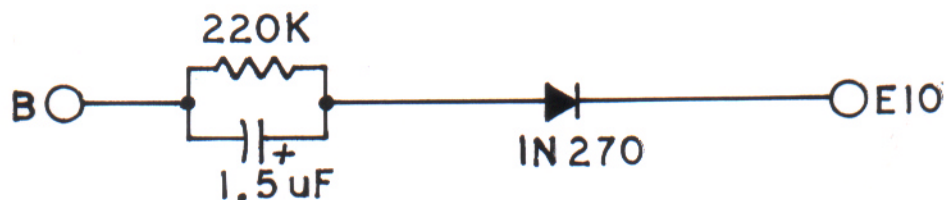
1. 1 Ea. - 220k, $\frac{1}{4}w$, 2% Resistor 83-1520-7301-7
2. 1 Ea. - 1.5uf, 35v TA Capacitor 83-1510-6183-1
3. 1 Ea. - 1N270 Diode 83-1530-0263-5

B. Signal Electronics Board

1 per Channel - 100pf, 500v Capacitor 83-1510-5155-0

PROCEDURE:

1. Remove R126 from each Signal Electronics Board.
2. Replace C1 on each Signal Electronics Board with the
100pf capacitor.
3. Add the following circuit to the Master Remote Ass'y,
between Pin 'B' and E10.



4. If this change is incorporated, please alter the affected
schematic diagrams to reflect this change.

WT(9/78)