

ADDENDUM

for APR-24 Manual 3-727-471-01

December 9, 1988

We strongly advise all users to annotate the respective portions of their manual, such as to reference this addendum.

1.1 Specification change; Start Time to Flutter

The "Start time to Flutter" specification is incorrect. The numerical flutter specifications have been reduced, and the weighting conditions have been changed to facilitate more reliable measurement techniques.

The new specification should now read as follows: for 10.5" reel operation:

1600 ms @ 30 ips to .2% flutter, 10Hz LP weighting
800 ms @ 15 ips to .3% flutter, 10Hz LP weighting
(specification w/ 10.5" diameter reel operation)

1.2 Specification change; Weighted Noise

The specification for dB(A) weighted noise has been changed. The new specification, as referenced to 250 nWb/m, should read as follows :

30ips, AES	61dB
15ips, NAB	57dB

The noise figures for unweighted 20Hz to 20KHz specifications remain unchanged.

1.3 Video or Tone reference indication

This is relative to initial release Software revision P5.01.01.2. Remote Timecode Hours decimal point which indicates validity of external video or Tone does not indicate when using Time code generator selected for Internal start point/External reference operation. The user is advised to confirm the validity of the external video or Tone before using the generator in this manner. This oversight will be corrected at the first available opportunity.

1.4 Burst Timecode

This is relative to initial release Software revision P5.01.01.2. The burst timecode feature is not provided in this revision software. This feature will be provided at the first available opportunity.

1.5 Bit delay IN/OUT Point adjustability

This is relative to initial release Software revision P5.01.01.2. The ability to adjust the IN and OUT points of Edits to the Bit resolution has been disabled in this revision of software. Performance to the Frame resolution is fully functional. This Bit resolution feature will be provided at the first available opportunity.

1.6 Vari-speed vs Jog/Shuttle operation

A clarification of normal operation...Vari-speed and Jog/Shuttle operation are mutually exclusive, If Jog or Shuttle are enabled when using the Vari-speed control, the Vari speed operation will be automatically canceled.

1.7 Manual Acceleration Allowance

An update to the information presented in this manual. After press time, an engineering change was made to the maximum limit of the Manual Acceleration Allowance argument . The maximum manual preset for storage location #50 is now 5 seconds.

1.8 Resolve on Play documentation

O/M Manual contains an omission regarding the enablement of the Resolve on Play facility. Section 3.8.1 should also indicate that Storage location #39 enables the Resolve on Play capability of the machine.

1.9 Invalid Radius Indication

The illumination of the Frames decimal point of the Tape Timer numeric displays indicate that a valid radius for the supply and take up reels has not yet been established. This is not a critical condition, however, it can influence performance of the machine. This situation normally occurs after the tape has been taken out of the "tape break" photocell, and then replaced.

Normally the threading process is sufficient to establish a initial valid initial radius, however, other manual operations that remove the tape from the photocell can leave the machine in an invalid radius condition. One should note that start time performance is lenthened during initial invalid radius conditions.

Once the tape has been moved 7.5", the machine will automatically establish a valid radius. When radius is invalid, it is not unusual for the machine to creep very slowly for this 7.5", until a valid raduis is established. Once radius is established, the tape motion will stop. One can also manually force the establishment of valid radius by moving the tape this qualifying distance.

1.10 Triggered Edit operation

The O/M Manual contains an error regarding Triggered Edit enablement. Step #2 in section 3.9 should reference storage location #43, and not storage location #51.

1.12 Use of the Noise Redution Port

The O/M Manual contains a misleading diagram regarding the use of the external Noise reduction ports. Please refer to Figure 2.8. The diagram shows the opto-isolator used as a common emitter current sink, in coordination with a relay of an external noise reduction unit. This illustration, while technically correct, does not represent a typical modern usage of this interface. It would be far more common for the opto-isolator to be used in the common collector configuration as a current source. The external noise reduction unit would supply the source current applied to the collectors.

1.13 AC Power connections 200/220/240 volt operation

Important notes have been omitted from section 2.2.2. The following should be included in this section:

For 240 volt operation

The metal shorting strap from A to B, C to D or E to F should be removed. The metal strap from H to I should also be removed. A Jumper which is parked on the Chassis ground connection, should be placed between points B and H.

For 220 volt operation

The metal shorting strap from A to B, C to D or E to F should be removed. The metal strap from H to I should also be removed. A Jumper which is parked on the Chassis ground connection, should be placed between points D and H.

For 200 volt operation

The metal shorting strap from A to B, C to D or E to F should be removed. The metal strap from H to I should also be removed. A Jumper which is parked on the Chassis ground connection, should be placed between points F and H.

1.14 Operating Voltages

There are a few errors in the O/M manual relative to section 2.2.4. Correctly this section should read as follows:

The APR-24's Power line voltage can be set to any of six different (nominal) voltage levels.

100V 110V 120V
200V 220V 240V

A Caution Tag attached to the AC plug of the recorder will inform the user of the voltage setting of the power supply as set by the factory.

1.15 Service Caution: repetative power cycling

A special servicing precaution is required should the need arise to repetatively cycle the power of the machine on and off. This situation might arise during repetative procedures, such as channel by channel trim adjustments of the CNL cards, where the power is turned off for extracting each card and installing in again on an extender board.

Procedure prior to repetative power cycling:

Disconnect CNJ #411 located on the TIB board. This connector is also marked "Shield".

(The TIB board is located beneath the Local Function Panel, see pages 4-2, B-86)

Procedure after repetative power cycling:

Reconnect CNJ #411 located on the TIB board

CAUTION

These servicing instructions are for use by qualified personnel only. To avoid electric shock do not perform any servicing other than that contained in the Operating Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.
