

SECTION 3

OPERATING INSTRUCTIONS

3.1 OPERATING CONTROLS AND INDICATORS

3.2 TAPE TRANSPORT

3.3 Operating controls and indicators for the tape transport are shown in Figure 3-1 and described in Table 3-1.

Table 3-1. Tape Transport Controls and Indicators

CONTROL OR INDICATOR	FUNCTION
PLAY/RECORD rotary switch	Controls tape motion and sets electronic assembly in the play or record mode (interlocked with REWIND/FAST-FWD switch).
REWIND/FAST-FWD rotary switch	Controls tape motion in fast-winding reverse (rewind) or forward modes (interlocked with PLAY/RECORD switch).
Record Safety Pushbutton	Safety feature to avoid entering the record mode accidentally. Must be pressed while PLAY/RECORD control is set at RECORD.
Tape Position Indicator Counter	Indicates tape position, to aid in returning to desired tape area. Pushbutton resets it to zero.

3.4 ELECTRONIC ASSEMBLY

3.5 Operating controls and indicators for the electronic assembly are shown in Figure 3-2 and described in Table 3-2.

Table 3-2. Electronic Assembly Controls and Indicators

CONTROL OR INDICATOR	FUNCTION
POWER toggle switch	Controls power to electronic assembly and tape transport. On master assembly of a two-channel recorder, it routes power to the POWER switch on the slave assembly.
SPEED/EQUALIZATION rotary switch (Master)	Selects equalization and tape speed for the SLOW (3-3/4 ips), or FAST (7-1/2 ips) speed.
EQUALIZATION rotary switch (Slave)	Selects equalization for SLOW or FAST speed.
OUTPUT SELECTOR rotary switch	Selects monitor signal (1) recording (INPUT) or (2) the recorded program (REPRODUCE).
VU meter	Monitors record or reproduce levels, as selected by the OUTPUT SELECTOR switch.
RECORD SELECTOR	Safety feature to avoid entering record mode accidentally. In SAFE position, the record mode is locked out; in RECORD position, the record mode can be entered.
RECORD LEVEL rotary controls (2)	Adjusts record level for INPUT A and INPUT B.

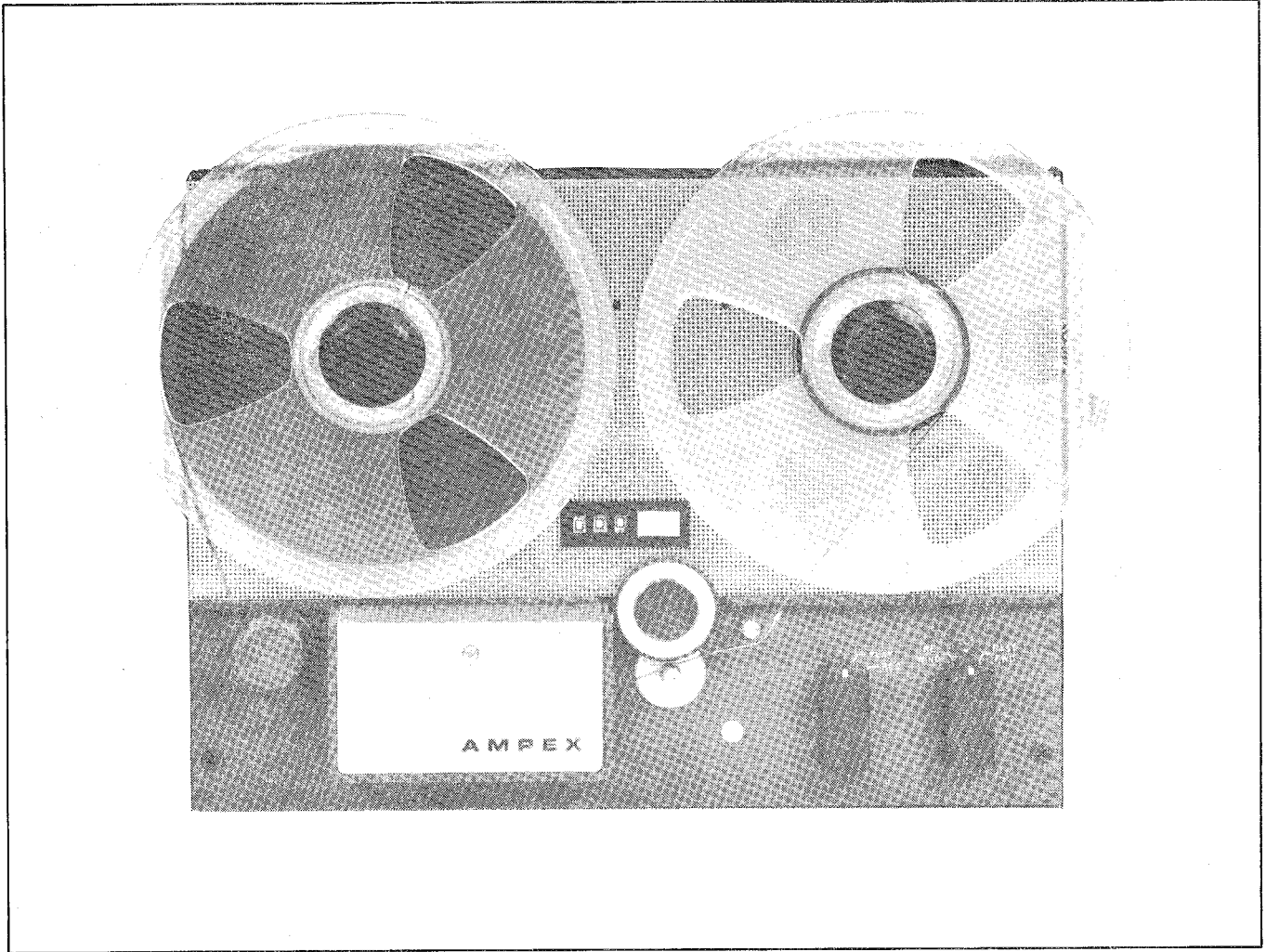


Figure 3-1. Transport Controls

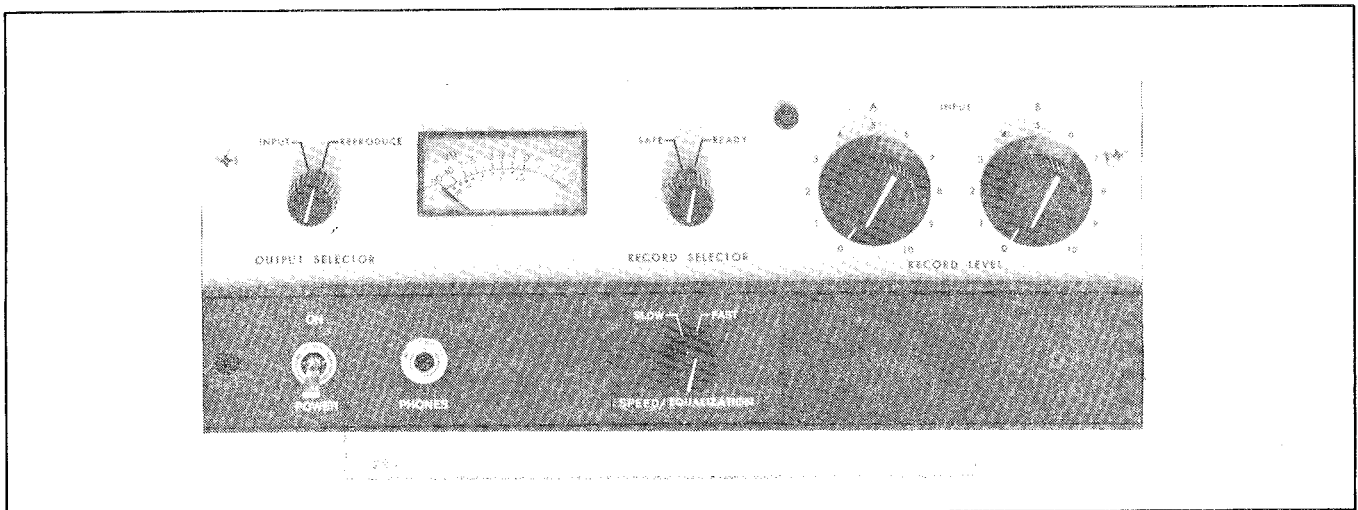


Figure 3-2. Electronic Assembly Controls

3.6 MONITOR EQUIPMENT

3.7 The VU meter monitors the record or reproduce levels. For aural monitoring, a headset is plugged into the PHONES jack on the electronic assembly front panel. Signals to the VU meter and PHONES jack are switched, by the OUTPUT SELECTOR, between the record-input signal (INPUT) or the reproduced signal (REPRODUCE) for monitoring and comparing.

3.8 OPERATION

3.9 TAPE THREADING (See Figure 3-3)

3.10 Thread the tape as shown in Figure 3-3, and anchor it to the takeup reel hub. Manually turn the takeup reel until the supply reel moves, to remove tape slack.

3.11 POWER APPLICATION

3.12 To apply power to the equipment, set the electronic assembly POWER switch to ON. To energize both channels of a two-channel recorder, set both POWER switches to ON; the first POWER switch routes power to the tape transport and the POWER switch on the slave assembly.

3.13 SPEED AND EQUALIZATION SELECTION

3.14 With power applied, set the SPEED/EQUALIZATION switch to FAST for 7-1/2 ips, or SLOW for 3-3/4 ips. The equalization for the speed set is automatically changed by the switching action.

3.15 RECORDING

Step 1: Thread blank tape, or tape recorded with obsolete material, on the tape transport per paragraph 3.9.

NOTE

Always bulk-erase any tape that was recorded on equipment with a different head configuration, to make sure that it is completely erased.

Step 2: Switch POWER to ON (refer to paragraph 3.11).

Step 3: Set SPEED/EQUALIZATION for desired tape speed.

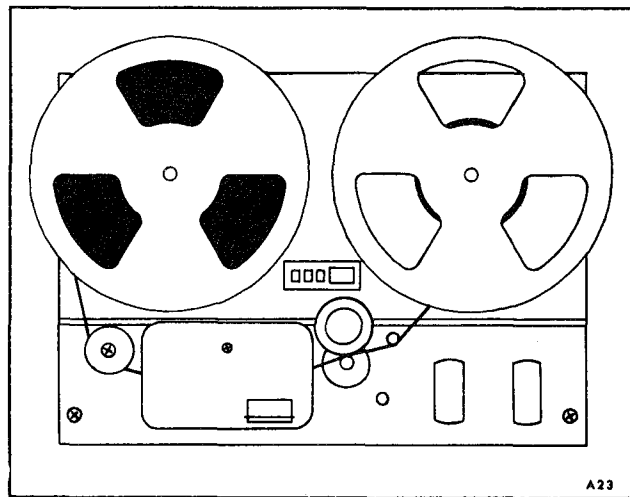


Figure 3-3. Tape Threading Path

Step 4: Set RECORD SELECTOR to READY. On two-channel equipment with both channels to be recorded, also set switch on slave electronic assembly to READY: if only one channel is to record, set switch on that electronic assembly to READY and the switch on the other electronic assembly to SAFE (refer to note after Step 8).

Step 5: Set OUTPUT SELECTOR switch to INPUT. Using a rehearsal-run or test signal, adjust the RECORD LEVEL control(s) so the VU meter indicates 0 on most audio peaks (maximum peaks can indicate +2 or +3).

Step 6: If both record inputs on an electronic assembly are used simultaneously, monitor a rehearsal-run signal, and set RECORD LEVEL for correct balance and a normal record level (as described in Step 5) for the combined inputs.

Step 7: Press reset pushbutton on tape position indicator to set it to 000.

Step 8: At the tape transport, press record-safety pushbutton, and set PLAY-REC to REC (tape moves). If desired, compare the input and recorded signals by alternating the OUTPUT SELECTOR between INPUT and REPRODUCE.

NOTE

The tape can be placed in motion while the electronics is in the "SAFE" condition; therefore the equipment is ready to record immediately when the RECORD SELECTOR is changed from SAFE to RECORD.

Step 9: Set PLAY-RECORD switch to neutral to stop tape motion and drop-out the record mode.

3.16 REPRODUCING

Step 1: Thread the recorded tape on the tape transport. Set RECORD SELECTOR to SAFE.

Step 2: Set POWER to ON.

Step 3: Set SPEED/EQUALIZATION for tape speed at which the tape was recorded.

Step 4: Set OUTPUT SELECTOR to REPRODUCE. (There is no reproduce output when OUTPUT SELECTOR is at INPUT.)

Step 5: Set PLAY/RECORD to PLAY (tape moves).

Step 6: To stop tape, set PLAY/RECORD to neutral.

3.17 FAST-WINDING

3.18 The fast-winding switch is interlocked with the play-and-record switch, so it is impossible to enter the opposite mode while either switch is activated.

3.19 To rapidly move the tape from the supply to the takeup reel, set REWIND/FAST-FWD to FAST-FWD. To rapidly move the tape from the takeup to the supply reel, set the control to REWIND. Switching is possible without waiting for tape motion to stop, so the tape can be quickly moved to a desired point, using the tape-position indicator as a guide.

3.20 To stop either fast-winding mode, reset REWIND/FAST-FWD to neutral.