

(9) RC 3610S/15S/20S/90S Magnetic Tape Units

Controls and Their Functions

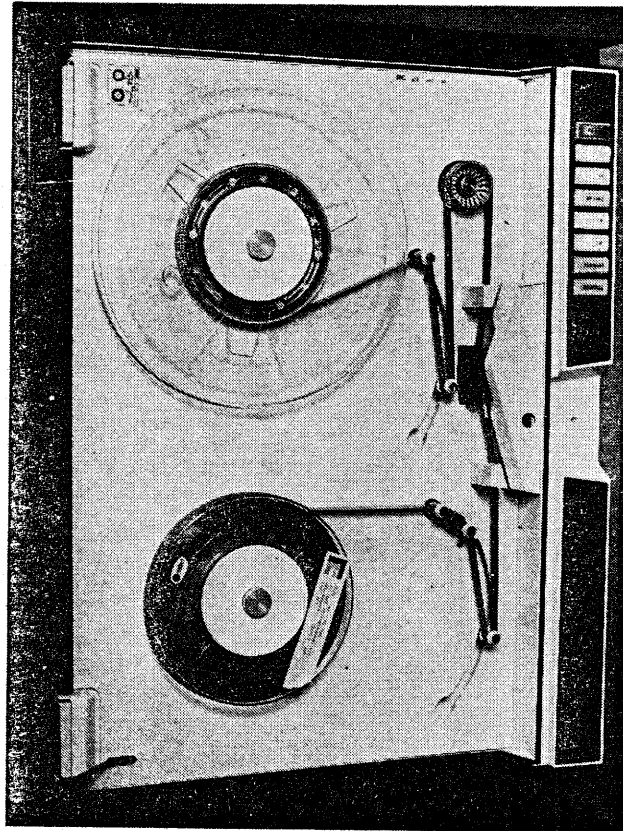


Fig. 1 RC 3610S Magnetic Tape Unit

Operator's Control Panel (see Fig. 2).

1. POWER push-button
 - when pressed to light applies power to the tape unit (should normally stay pressed).
2. LOAD push-button
 - pressing and releasing the LOAD push-button for the first time after power has been applied tensions the tape. Pressing and releasing the LOAD push-button a second time causes the tape to advance to the BOT (Beginning of Tape) mark and stop.

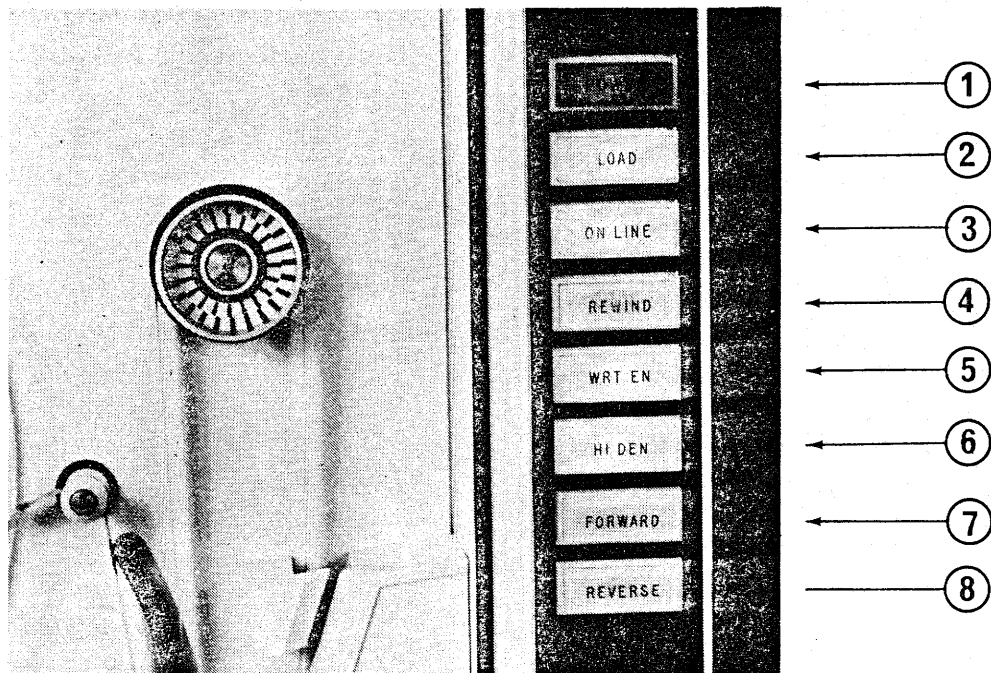


Fig. 2 Operator's Control Panel

3. ON LINE push-button
indicator

- functions only after a Load or Rewind sequence has been initiated.

Pressing and releasing this push-button switches the tape unit to ON-LINE mode and lights the indicator. In this condition the tape unit can accept external commands provided it is Selected. The tape unit will revert to the OFF-LINE mode if ON-LINE push-button is pressed a second time, an external off-line command is received or tape tension is lost.

4. REWIND push-button/
switch indicator

- this control can only be used in the OFF-LINE mode.

Pressing and releasing this push-button causes the tape to rewind at 150 ips (inches per second).

On reaching the BOT tab, the rewind drive ceases and the load sequence is automatically entered. The REWIND indicator is illuminated throughout any rewind operation including the subsequent load sequence.

5. WRT EN (WRITE ENABLE)
indicator

- this indicator is illuminated when power is on and a reel of tape with a Write Enable ring installed is mounted on the tape unit.

6. HI DEN push-button/

- see table below for each model.

RC 3610S

HI DEN push-button/indicator always lit.

RC 3615S

When HI DEN push-button/indicator is pressed to light 1600 bpi is selected (High Density/PE).

When HI DEN push-button/indicator is pressed not to light i.e. is OFF, 800 bpi is selected (low Density/NRZI).

RC 3620S

HI DEN push-button/indicator: never lit.

RC 3690S

When HI DEN push-button/indicator is pressed to light the high density is selected.

When HI DEN push-button/indicator is pressed not to light i.e. is OFF, the low density is selected.

7. FORWARD push-button/
indicator

- this control functions only in the OFF-LINE mode. When the push-button/indicator is pressed, the indicator lights and the tape will move forward at the prescribed speed. When the push-button/indicator is pressed again, the tape stops and the indicator does not light, i.e. is OFF.

8. REVERSE push-button/
indicator

- functions only when the tape unit is in the OFF-LINE mode and ready.

When the push-button/indicator is pressed, the indicator lights and the tape moves in the reverse

direction at the prescribed speed

When the push-button/indicator is pressed again, the tape stops and the indicator does not light, i.e

is OFF.

Loading Tape on Transport

The RC 3610S/15S/20S/90S transport, in the position shown in Figure 3, has the supply reel (i.e. the reel to be read or written) at the bottom. Tape must unwind from the supply reel when the reel is turned in a clockwise direction. Note that the presence of a Write Enable ring on the reel is required to close the interlocks which allow writing.

To load a tape reel (maximum reel size is 10.5 inches in diameter with 2400 feet of tape), position the reel over the quick-release hub and press the center plunger. This allows the reel to slip over the rubber ring on the hub. Press the reel evenly and firmly against the back flange of the hub with the center plunger pressed inwards. Release the center plunger. The reel is now properly aligned in the tape path and ready for tape threading. Now rotate the supply reel to give about 1.5 meters of free tape.

Thread the tape along the path shown in Figure 3. It will be necessary to rotate the supply reel and hold the Flux Gate unit away from the head during tape threading.

Wrap the tape leader onto the take-up reel so that the tape will be wound onto the reel when it is rotated clockwise. Wind several turns onto the takeup reel, then turn the supply reel counter-clockwise until slack tape has been taken up.

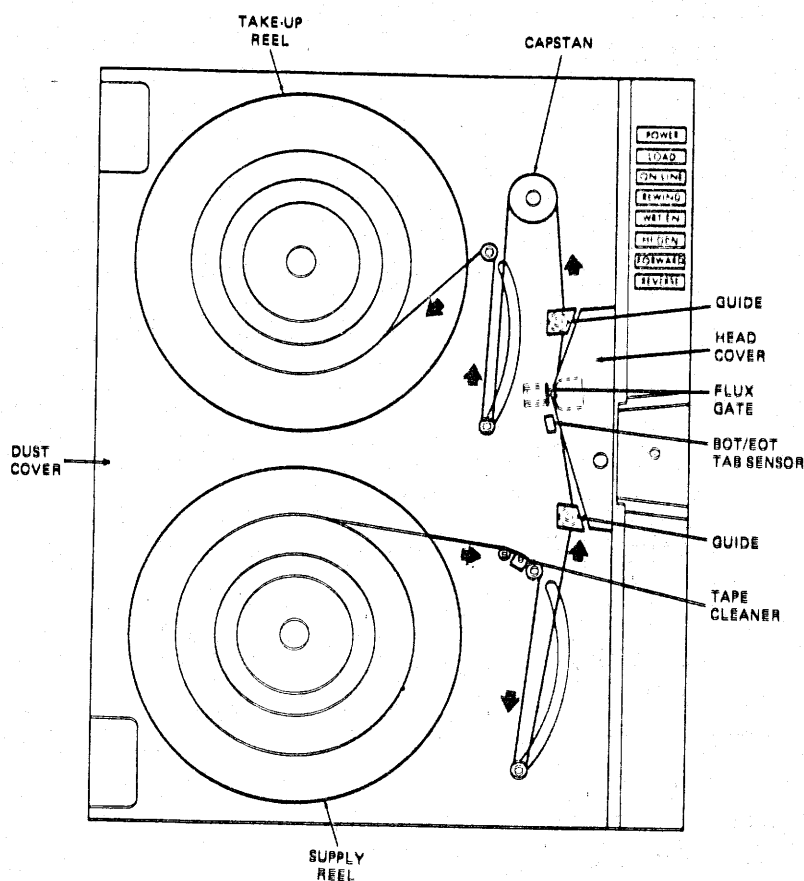


Fig. 3 Threading the tape through the transport mechanism.

Bringing Tape to load point (BOT)

After the tape has been manually tensioned and checked for correct seating in the guides, bring the tape to Load Point as follows.

1. Turn the power on by pressing the POWER push-button. (The POWER push-button should remain pressed so that power is applied and removed by the system power key.)
2. Press and release the LOAD push-button. This applies power to the capstan and reel motors and brings the tape to the correct operating tension. The tape storage arms are now in the operating position.

CAUTION: Check that the tape is positioned correctly on all guides or tape damage may result.

3. Press and release the LOAD push-button a second time. This causes the tape to move forward at 25 ips. Check the tape tracking in the guides again and close the dust cover.

CAUTION: The dust cover should remain closed at all times when a tape is on the take-up reel. Data reliability may be impaired by dust and other particles in the air if the cover is left open.

When the reflective BOT tab reaches the BOT/EOT Tab Sensor, the tape is at Load Point. Depress the ON LINE push-button and when it lights the tape unit is now ready to receive external commands.

Unloading the Tape

To unload a tape, complete the following procedure.

1. Ensure that the tape unit is OFF-LINE (ON LINE indicator not lit, i.e. is OFF).
2. Press and release the REWIND control. When the tape has rewound to the BOT tab, it comes to a controlled stop. The tape overshoots and the transport enters the Load sequence to bring the tape to rest at the BOT.
3. Press and release the REWIND control a second time. This initiates a further rewind action which continues until tension is lost.
4. Open the dust cover and wind the end of the tape onto the supply reel. Press the hub center plunger and remove the reel. Close the dust cover.