

TITLE -- MAGNETIC TAPE HANDLER (334 - 101/102 and 334 - 131/132)

General Description



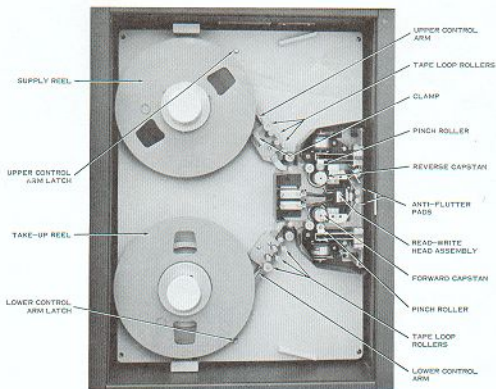
- External storage device for 315 type Data Processors.
- One Magnetic Tape Handler (with Controller)\* and up to four Magnetic Tape Handlers (without Controller)\* may be connected together to form a Cluster.
- A maximum of two Clusters with a maximum of eight tape handlers may be assigned On-Line at a time.
- Tape Transport Speed is 60 inches-per-second.
- Tape Rewind Speed is 250 inches-per-second (average).

[www.thecorememory.com](http://www.thecorememory.com)

\*NOTE: These are logical control functions within the tape handler and should not be confused with the 324 Tape Controller.

## The Core Memory Project

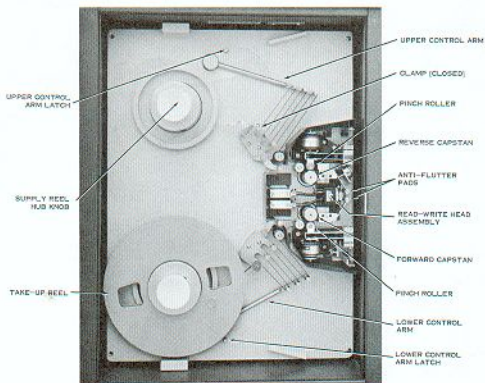
- Data Transfer Rate: 334 -101/102 --- 6000 slabs-per-second.  
334 -131/132 --- 6000 slabs-per-second for 12KC  
16,500 slabs-per-second for 33KC
- Recording Density: 334 -101/102 --- 200 characters-per-inch - Odd or  
Even Parity  
334 -131/132 --- 200 characters-per-inch - Odd Parity  
and 556 characters-per-inch - Odd or  
Even Parity
- Variable length records may be recorded from 1 to 7,999 slabs-per-block.
- Reel Capacity is 2400 feet of 1/2 inch 1.5 mil, open oxide, hard binder tape.
- USE LOCKOUT Feature can be initiated by program or by manual action, and is optional when rewinding.
- Read during write check, Parity and Longitudinal Sum Checks are incorporated in these handlers.



Tape Deck

## Tape Loading and Threading

1. Rotate the upper Tape Control Arm to its clockwise limit and lock it in this position by pressing the Control Arm Latch while releasing the Control Arm.
2. Lock the lower Tape Control Arm in a similar manner.
3. Attach the Leader to the lower Tape Reel and wind on approximately ten feet.
4. Pull out Hinged Actuator Cover.
5. Thread Leader from lower Tape Reel between lower Tape Control Arm and Tape Loop Rollers.
6. Run tape under the lower Anti-Flutter Pad, over the magnetic Read/Write Head, and under the upper Anti-Flutter Pads.
7. Release the Tape Clamp by turning it to the position shown above.
8. Thread the Leader between the upper Tape Control Arm and the Tape Loop Rollers.
9. Clamp the free end of the Leader by turning the Tape Clamp 1/4 turn in the counterclockwise direction.

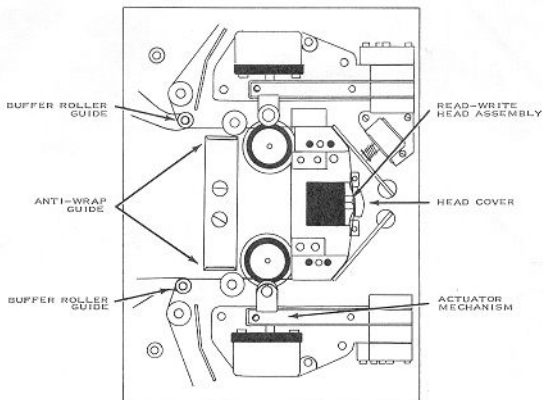


Tape Deck

10. Release the upper and lower Tape Control Arms by pushing them toward the center of the Tape Deck and then releasing.
11. Turn the knob on the Supply Reel Hub counterclockwise until the three Reel Locking Lugs are recessed into the Reel Hub.
12. Place the Supply Reel on the Reel Hub and turn the knob in the center of the Reel Hub clockwise until the three Locking Lugs are snug against the Tape Reel.
13. Attach the Tab on the permanent Tape Leader to the Tab on the Reel of Tape.
14. Release the Tape Clamp by turning it 1/4 turn in the clockwise direction.

### Tape Unloading

1. Press the REWIND Button. Tape will rewind until the Load Point Marker (a small piece of light reflecting material) is detected.
2. Pressing the REWIND Button again will cause the tape to move to the Unload Point. It is detected by the Electrical Conducting Tape contacting both the Upper and Lower Loading Posts.



- A recent modification made to the transport in the tape drive incorporates an Anti-Wrap Guide to eliminate the possibility of tape wrapping around the Capstan and destroying the Actuator Assembly.
- When threading the Permanent Leader, extreme caution must be observed in three areas.
  1. Be sure that the leader is over the Buffer Roller Guides as shown in the drawing above. Threading the leader under these guides will cause the leader or tape to be cut or destroyed.
  2. Always thread the tape between the Anti-Wrap Guides and the Stationary Tape Guides. Threading the tape over the Anti-Wrap Guides will cause the tape to wrap around the Capstan and destroy the Actuator Mechanism.
  3. Always place the tape between the Read-Write Head and the Head Cover. Placing the tape over the cover will cause the oxide coating to be stripped from the tape.

# The Core Memory Project

UPPER CONTROL  
ARM LATCH

SUPPLY REEL

TAKE-UP REEL

LOWER CONTROL  
ARM LATCH

UPPER CONTROL ARM

CLAMP [OPEN]

PINCH ROLLER

REVERSE CAPSTAN

ANTI-FLUTTER PADS

READ-WRITE  
HEAD ASSEMBLY

FORWARD CAPSTAN

PINCH ROLLER

LOWER CONTROL  
ARM

