

CONSTANT TENSION KIT – UNINSTALLING

Restoration of the Capstan Servo PWA

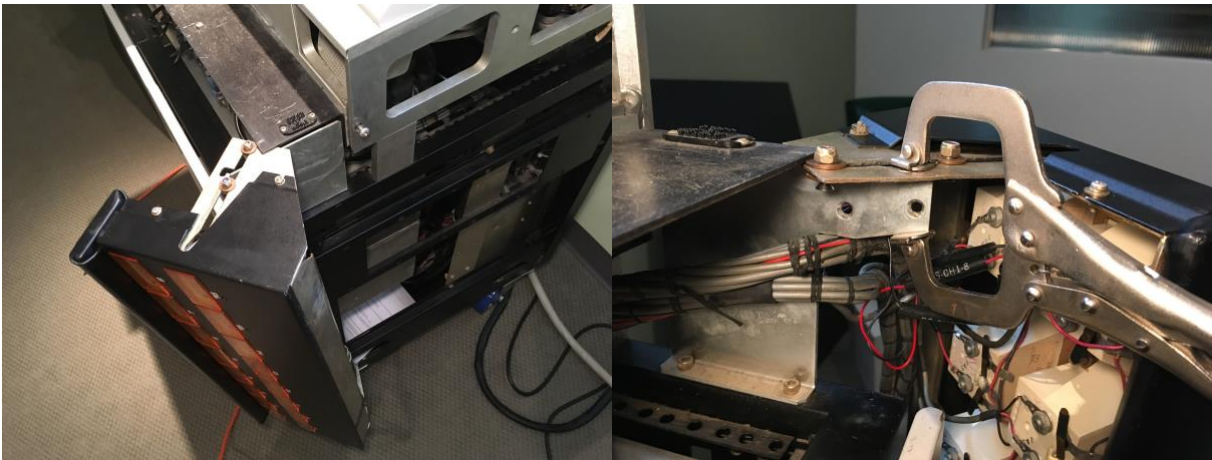
- Remove the piggyback board, and de-solder the six wires which connect it to the Capstan Servo PWA.

Restoration of the Transport Control PWA

- Reinstall R18 (470 Ω , 1/2W, 5%) and R20 (470 Ω , 1/4W, 5%).

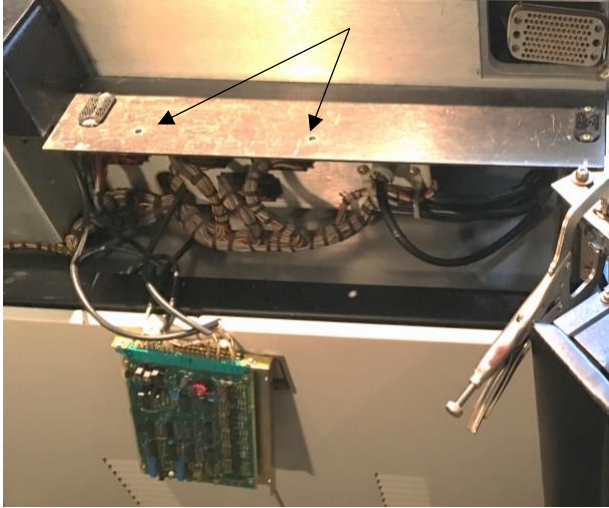
Making Room

- Remove the transport cards from the card cage
- Remove the MM1200 side panels.
- Remove the control box (the remote) from the MM-1200 by lifting it away from the plastic Velcro retainers, and disconnect the electrical Winchester connector.
- Pull the armrest and meter panel out as far as the slots in the adjustable side-arms will allow. Then, remove the meter bridge by unfastening the four screws, associated washers, and self-locking nuts (1 1/32"), on the slide brackets.
- Gently bring the left side of the meter panel down and to the right, while setting the right-side bracket to rest on top of the aluminum piece attached to the transport frame. Clamp to secure.



Removal of the Tension Controller PWA and Bracket Assembly

- The bracket holding the Tension Controller PWA extends downward from the control box (remote) shelf, with edge connector J15 on the left.
- Unfasten the two 8-32 inch screws, to release the whole assembly.



Removal of the Control Box Shelf

- With the tension controller removed, there is now access to the four 8-32 screws holding the transport control box (the remote) shelf.
- Unfasten the screws and remove the shelf.

Release J5 from transport control panel (the back panel)

- Locate J5 on the operator side of the transport control panel, and disconnect P5 (on the opposite side of the panel).
- Now release J5 from the panel by pinching the plastic catches together (above and below the connector, from the behind the panel) while pulling connector straight out. This step is performed to allow greater freedom of movement.



Removal of the Motor Control Indicator Panel

- Unfasten the two mounting screws on the motor control indicator panel (located between transport control chassis and transport control box).
- Unscrew and remove the indicator PWA from the panel. Do not reattach the spacer panel at this time.



Free the Transport Control Chassis (Card Cage)

- Remove the two hex screws from near the top of the transport control chassis on the operator's side.
- Reach behind the panel, and remove the two Philips screws which secure 2 harness clamps to the frame, and into the bottom of the card cage.
- Carefully lay the transport control chassis on its side, to expose the edge connectors.



Remove J2 connections

- De-solder/disconnect the harness leads from J2 (the edge connector for the Capstan Servo PWA), and remove the jumper between R and S. The connections are described below:

J15	J2
TENSION CONTROLLER	CAPSTAN SERVO
Wire Color	Soldered To: Pin
WHITE/GREEN	BB and 24
WHITE/YELLOW (center)	X and 20
WHITE/YELLOW (shield)	R
WHITE/BLACK	S ⁽¹⁾
(1) Solder a jumper wire between pins R and S.	

Remove P5 connections

- Reach behind the transport control panel from the left side of the MM-1200 and grasp connector P5 (unplugged from J5 in an earlier step). Pull out as far as necessary for easy access.
- Disconnect the four wires coming from the Tension Control harness.
- The connections are described below:

WIRE COLOR	P5
	Solder To: Pin No.
WHITE/VIOLET	23
BLUE	6
WHITE/RED	15
WHITE/BROWN	12



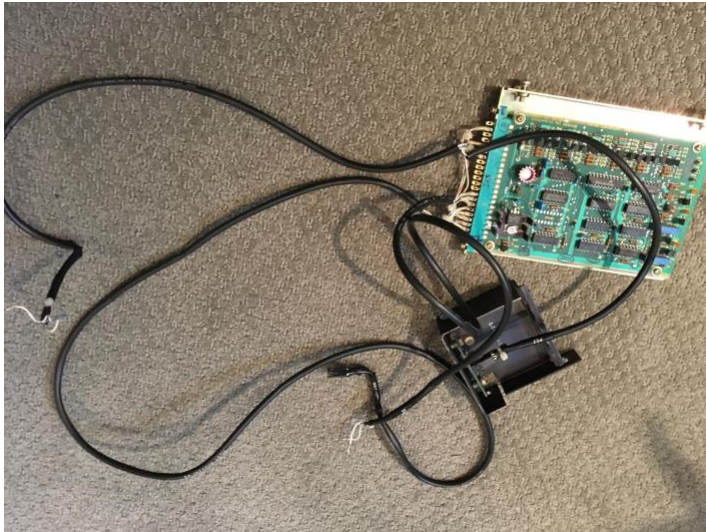
Disconnect J16 from the Reel Speed Sensor PWA

- Unfasten the two 10-32 screws securing the PWA bracket to the brake housing, then remove the reel speed sensor assembly from the take-up Motor.
- Remove the loop-clamp that secures the cable, to the reel speed sensor bracket (bottom of take-up motor).
- Disconnect J16 from the Reel Speed Sensor PWA.

Disconnect P17

- Disconnect P17 from J17 on the Motor Control Indicator PWA.

This completes the removal of the constant tension kit.



Reassembly

Return the transport control chassis (card cage) to its upright position and replace the fastening screws.

Reinstall the spacer panel (minus the motor control indicator) on the machine.

Reattach J5 to the panel, and reconnect it to P5.

Mount the transport control shelf on the machine in its original position.

Reconnect and install the transport control box (remote) on the shelf.

Reattach the meter bridge assembly.

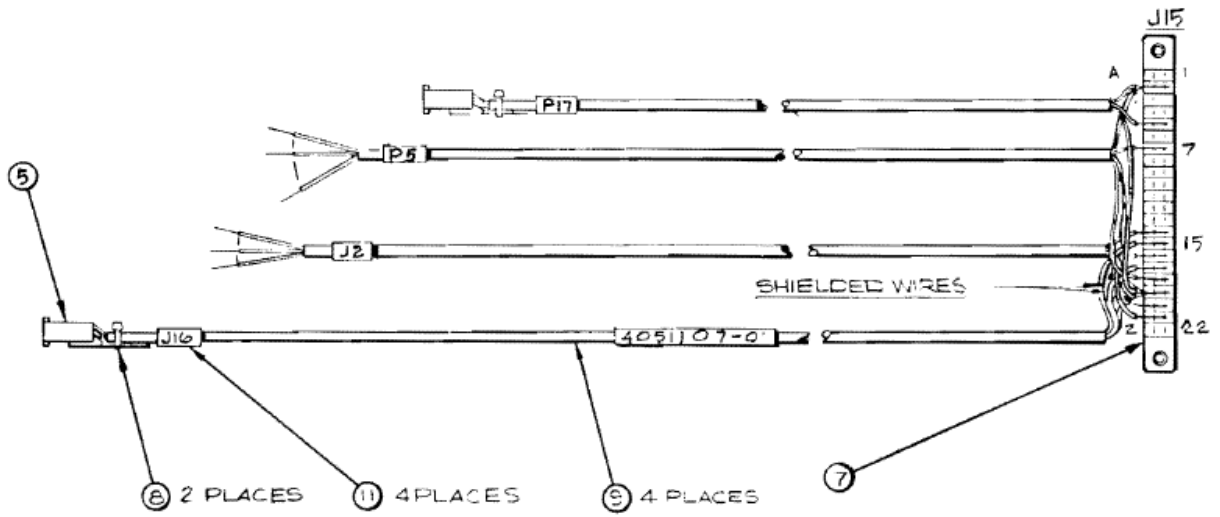
Replace the Search to Cue/Timer PWA and the newly modified Capstan Servo and Transport Control PWA's.

This completes the reassembly procedure.

Final Check and Alignment

Check the 15/27 voltage regulator adjustments.

Perform a full transport alignment procedure.



Assembly No. 4051107. Play Take-Up Tension Control Harness Assembly

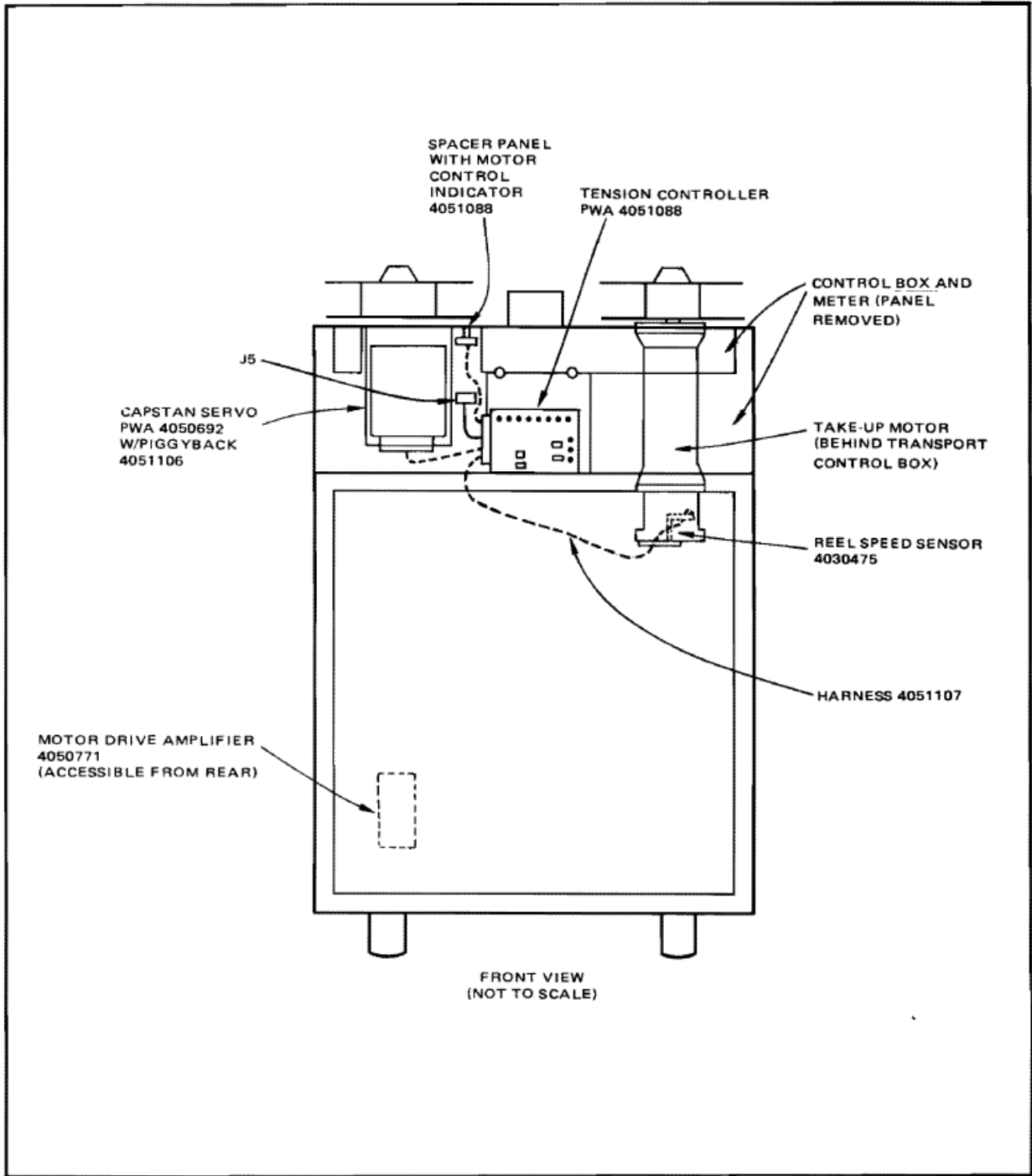
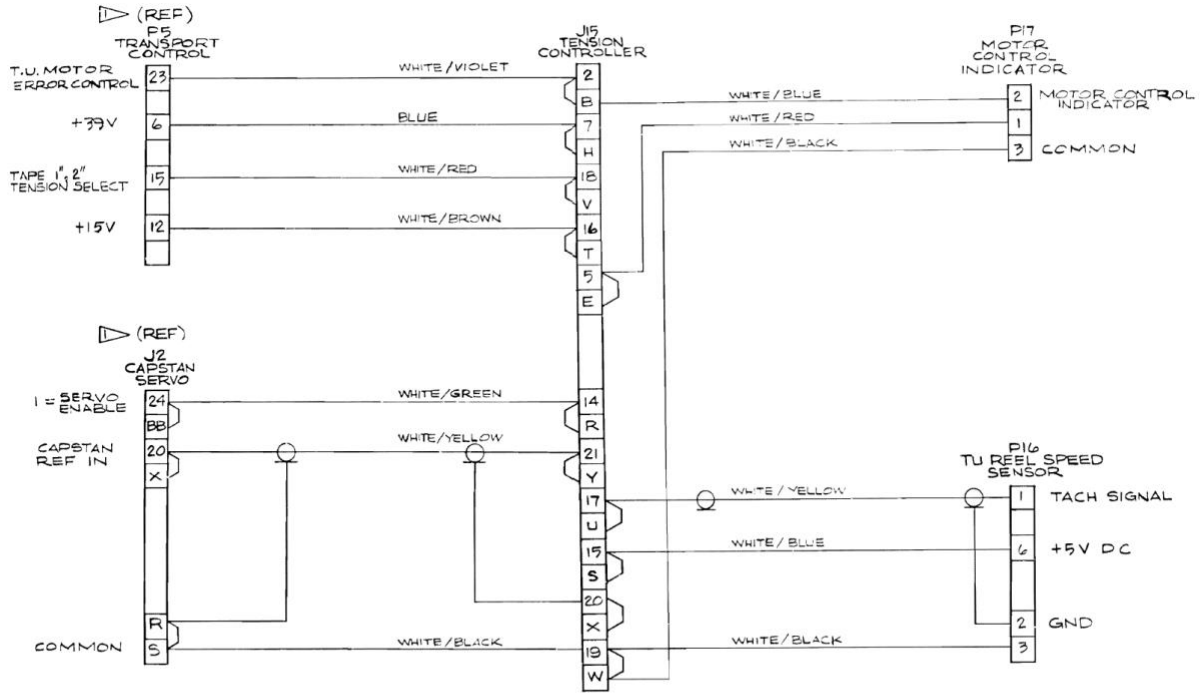


Figure 2-8. TTC Component Locations in MM-1200



NOTES: UNLESS OTHERWISE SPECIFIED

▷ THESE CONNECTORS (P5/J2) EXIST IN THE MM-1200.

Wiring Diagram 4840561A.
Play Take-Up Tension
Control Harness

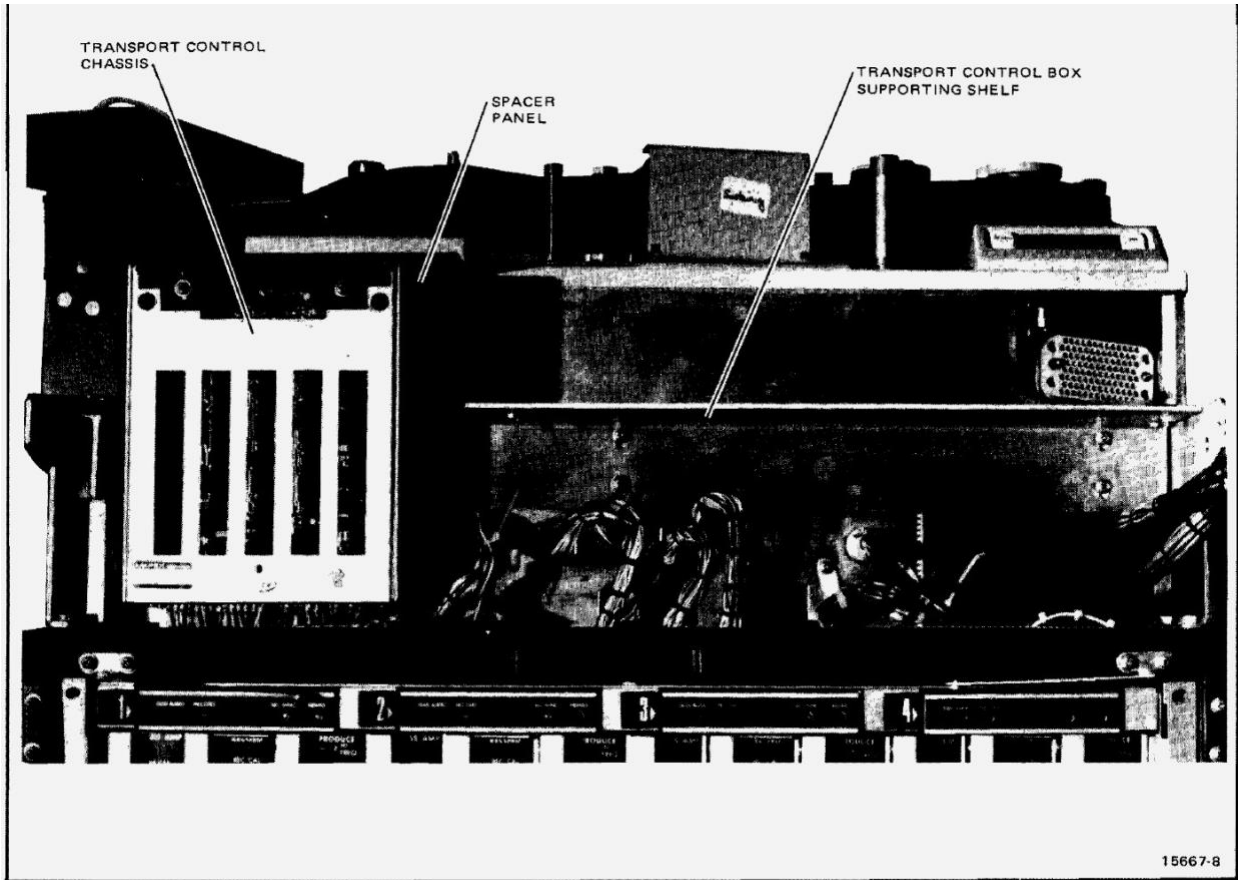


Figure 2-5. Transport Control Chassis, Spacer Panel and Supporting Shelf Locations