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TUW200 HIGH SPEED TAPE UNWINDER

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1. GENERAL

1.01 This section provides the description, principles of operation, installation and maintenance procedures for the TUW200 high speed tape (outside) unwinder.

1.02 The high speed tape unwinder supplies paper tape for a reader or punch unit from a large tape supply roll at speeds up to 2400 wpm.

2. DESCRIPTION

2.01 The high speed tape unwinder is a selfcontained motor driven device for pulling tape from its storage bin as the associated unit processes the tape supply. The tape is pulled from the bin by the motor driven pinch roller which is actuated by a mercury switch and a tape sensing arm. The mercury switch is attached to the tape sensing arm and functions within rather narrow limits at the midpoint of its range of travel.

2.02 The tape bin will accommodate up to 3000 feet of 11/16 inch to one inch tape either plain, or fully perforated (1500 feet of chadless tape). Note that the tape is to be wound with the beginning of the (perforated) text at the outside of the roll.

2.03 A conventional tape reel is not used since the roll is not supported at its center. Rather, the narrow tape bin holds the roll in tact as the self-contained tape puller (motor driven) unwinds the tape from the outside of the roll. In applications where a large-core tape reel is used in winding the tape, the unwinding operation will require a business machine ring (similar to TP147707) to support the center portion of the roll.

3. PRINCIPLES OF OPERATION

3.01 In operation, a roll of tape (without a reel or spindle) is oriented so that the leading edge of the outside loop of the roll is directed from the bottom of the roll toward the tape puller. The roll is placed into the tape bin through the elongated opening at the top of the unwinder. The leading edge of the outside loop is then threaded through the tape sensing arm, the tape guide loop, and routed to the associated punch or reader unit.

3.02 A flexible strap supports the tape roll in the unwinder tape bin. The rear end of the strap may be lifted upward to facilitate the removal or addition of tape. Exercise care as the tape roll is inserted into the bin to make sure that the inside end of the tape roll does not protrude at its center.

4. INSTALLATION

4.01 The tape unwinder may be placed on an adjacent table with its tape output directed toward the high speed sender cabinet. Also a shelf (modification kit TP148164) may be obtained for locating the unwinder on the side of the main cabinet.

4.02 Three cabinets are available for mounting the tape handling equipment at a level with the tape processing units in the high speed sender or receiver cabinet. The accessory cabinets are placed adjacent to the main cabinet; the con-

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Figure 1 - High Speed Tape Unwinder

tour conforms with the high speed tape-to-tape system. A tape unwinder, a tape winder, or a combination of the tape handling devices are housed in the respective cabinet which is placed at the right or left side of the main cabinet to meet the requirements of the tape flow.

- 4.03 Operating Instructions
 - (a) Connect the power cord to a 115 volt ac outlet.

(b) Insert the tape roll into the tape bin with the outside of the tape (coming off the bottom of the roll) directed toward the tape puller.

(c) Keep the tape on the inside diameter of the roll flat as the tape is inserted in the tape bin.

(d) To remove any telescoping effect, drop the tape lightly on the flat surface of a table.





(e) Unroll several feet of tape and thread it under the tape depressor through the tape sensing arm, over the tape guide loop and into the tape reader.

(f) The unwinder will turn on when the tape sensing arm is raised.

(g) The tape sensing arm drops automatically to turn off the unwinder when the end of the roll of tape is reached.

(h) Lift the rear end of the tape bin strap upward to remove the tape roll.

5. ADJUSTMENTS

5.01 The following line drawings show adjusting tolerances, position of parts, and spring tensions. Refer to Figure 3 for the location of the assemblies.

5.02 Reference to the left, right, up, down, front and rear refer to the apparatus in its normal operating position in the set, as viewed from the operator's position in front of the associated cabinet.



To Adjust

With respective clamp screw loosened, tilt one or both switches to align the (4) terminals.



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6. LUBRICATION

6.01 The following markings are lubrication symbols used on the illustration to indicate the type and amount of lubricant required.

Symbol Meaning

O3

Apply 3 drops of oil.

6.03 Tape Roller

6.02 Use KS7470 oil sparingly as shown. Lubricate every 500 hours or every six months, whichever occurs first.

7. DISASSEMBLY AND REASSEMBLY

7.01 Motor not to be repaired. Disassembly of tape puller is self-explanatory.





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Figure 3. Tape Unwinder with Cover Removed

