TRANSMITTER DISTRIBUTOR

FOR INSTRUCTIONAL PURPOSES ONLY
As START-STOP LEVER ① is moved to the Run Position it pivots clockwise releasing START-STOP RAIL ② to rotate counterclockwise allowing START-STOP AND TIGHT TAPE CONTACT ASSEMBLY ③ to close. As START-STOP BAIL ② moves counterclockwise it allows spring loaded INTERMEDIATE BAIL ④ to move counterclockwise rotating TAPE OUT PIN DEPRESSOR BAIL ⑤ counterclockwise. As TAPE OUT PIN DEPRESSOR BAIL ⑤ rotates it releases spring loaded TAPE OUT SENSING PIN ⑥ to move upward. If TAPE ⑦ is in unit, TAPE ⑦ will prevent TAPE OUT SENSING PIN ⑥ from moving up far enough to open TAPE OUT CONTACT ASSEMBLY ⑧. If no TAPE ⑦ is in unit, TAPE OUT SENSING PIN ⑥ will move up opening TAPE OUT CONTACT ASSEMBLY ⑧.

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To operate the Transmitter Distributor both the START-STOP AND TIGHT TAPE CONTACT ASSEMBLY 1 and TAPE OUT CONTACT ASSEMBLY 2 must be closed since they are in series with each other. For both contacts to be closed the START-STOP LEVER 3 must be in the Run Position and TAPE 4 must be in unit holding TAPE OUT SENSING PIN 5 downward preventing it from moving up opening TAPE OUT CONTACT ASSEMBLY 2. If START-STOP LEVER 3 is moved to Stop Position the START-STOP AND TIGHT TAPE CONTACT ASSEMBLY 1 opens. If START-STOP LEVER 3 is in Run Position, but no TAPE 4 is in unit, TAPE OUT SENSING PIN 5 moves up opening TAPE OUT CONTACT ASSEMBLY 2. In Run Position after TAPE 4 has run completely through the unit, it will move away from TAPE OUT SENSING PIN 5 therefore stopping the unit.

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If tape becomes tight or tangled the TIGHT OR TANGLED TAPE BAIL 1 is rotated counterclockwise driving TIGHT TAPE INTERMEDIATE ARM ASSEMBLY 2 clockwise opening START-STOP AND TIGHT TAPE CONTACT ASSEMBLY 3. Since both the START-STOP AND TIGHT TAPE CONTACT ASSEMBLY 3 and TAPE OUT CONTACT ASSEMBLY 4 must be closed for unit to run, it will stop.
If both the START-STOP AND TIGHT TAPE CONTACT ASSEMBLY 1 and TAPE OUT CONTACT ASSEMBLY 2 are closed it will allow CLUTCH TRIP MAGNET ASSEMBLY 3 to become energized. As ARMATURE 4 moves against POLE PIECES 5 the ARMATURE EXTENSION RAIL 6 moves upward rotating MAIN RAIL LATCH LEVER 7 clockwise.
When MAIN BAIL LATCH LEVER 1 is rotated clockwise it releases MAIN BAIL ASSEMBLY 2 to move upward in a counterclockwise direction.
As MAIN BAIL ASSEMBLY 1 moves up in a clockwise direction (as viewed from rear of unit) CLUTCH TRIP BAIL ECCENTRIC 2 moves to the left rotating TRIP LEVER BAIL 3 counterclockwise. As TRIP LEVER BAIL 3 rotates counterclockwise it rotates CLUTCH TRIP LEVER 4 counterclockwise allowing CLUTCH ASSEMBLY 5 to become engaged.
When MAIN BAIL ASSEMBLY 1 moves upward its MAIN BAIL SPACER POST 2 releases all spring loaded SENSING FINGERS 3 to move upward to sense holes in Tape. As CAM SHAFT 4 and DRIVE ARM ECCENTRIC 5 rotate clockwise it causes DRIVE ARM 6 to pull downward on MAIN BAIL ECCENTRIC 7 until MAIN BAIL LATCH LEVER 8 latches over MAIN BAIL ASSEMBLY 1.

As reset action is taking place, the MAIN BAIL SPACER POST 2 which is part of MAIN BAIL ASSEMBLY 1 will withdraw SENSING FINGERS 3 from Tape and rotate TAPE FEED WHEEL 9.
As MAIN BAIL ASSEMBLY 1 is released and moves upward the FEED PAWL 2 which is attached to MAIN BAIL ASSEMBLY 1 will move upward engaging a new tooth on FEED WHEEL RATCHET 3 while RATCHET DETENT LEVER 4 holds FEED WHEEL RATCHET 3 in place. As MAIN BAIL ASSEMBLY 1 is pulled downward the FEED PAWL 2 will rotate the FEED WHEEL RATCHET 3 one tooth overriding the RATCHET DETENT LEVER 4 which will seek a new position after feeding is completed.
Marking Condition:
As MAIN RAIL SPACER POST 1 moves upward it releases all spring loaded SENSING FINGERS 2 to move upward to sense holes in TAPE 3. If SENSING FINGER 2 moves through hole in TAPE 3 it will pull TRANSFER LEVER 4 to right placing left side of TRANSFER LEVER 4 over left side of TRANSFER BAIL 5. As CAM SHAFT 6 rotates a Cam will drive TRANSFER LEVER 4 downward pulling TRANSFER BAIL 5 counterclockwise closing MARKING CONTACT 7 through linkare to CONTACT BOX 8.

FOR INSTRUCTIONAL PURPOSES ONLY
Spacing Condition:
As MAIN RAIL SPACER POST 1 moves upward it releases all spring loaded SENSING FINGERS 2 to move upward to sense holes in TAPE 3. If there is no hole available in TAPE 3, SENSING FINGER 2 will not contact TRANSFER LEVER 4. Right side of TRANSFER LEVER 4 will remain over right side of TRANSFER BAIL 5. As Cam Shaft rotates a Cam will drive TRANSFER LEVER 4 downward pulling TRANSFER BAIL 5 clockwise closing SPACING CONTACT 6 through linkage to CONTACT BOX 7.

FOR INSTRUCTIONAL PURPOSES ONLY
TRANSFER BAIL EXTENSION ① locks into place when moving from a Mark to Space or a Space to Mark.

Marking Condition:
TRANSFER BAIL EXTENSION ① rotates counterclockwise allowing MARKING LATCH ② to ride on top of TRANSFER BAIL EXTENSION ① while SPACING LATCH ③ drops down on right side of TRANSFER BAIL EXTENSION ① to hold Transfer Bail Marking.

Spacing Condition:
TRANSFER BAIL EXTENSION ① rotates clockwise allowing SPACING LATCH ③ to ride on top of TRANSFER BAIL EXTENSION ① while MARKING LATCH ② drops down on left side of TRANSFER BAIL EXTENSION ① to hold Transfer Bail Spacing.
TRANSFER LEVERS ① are placed in either a selected or an unselected position by their associated SENSING FINGERS ②. Cam Shaft rotates allowing the spring loaded LOCKING BAIL ③ to enter its dwell. The locking blade of the LOCKING BAIL ③ positions between the lower extensions, locking selection into place until transmission is completed. LOCKING BAIL ③ is camed out of TRANSFER LEVERS ① at the end of Cam Shaft cycle.