

Technical Bulletin

Please Distribute to all Sales and Service Personnel

Mettler-Toledo, Inc. Scales & Systems

Number: MTFW-09-99
Date: 8/30/99
Model: 317
Subject: Printhead failures and label application

Two areas of concern on 317 applicator printers are premature printhead failures and label application problems. The following procedure along with KOP P/N 83047200A has been created to address these conditions. The changes included in this KOP have been implemented in all 317 applicator printers beginning with S/N 3085944-3-HA.

Static has been found to be a significant cause of printhead failures. A good ground path from the applicator head to the machine frame effectively dissipates the static generated by the separation of the labels from the liner.

Crooked label conditions have been linked to a tight tolerance fit between the pinion wire bearings and the pinion mounting brackets. Frequent applicator rehomming has been linked to excessive end play in the pinion wire.

On your next PM visit or if you have a service call for either of these conditions perform the following procedures:

1. Look for stray labels and adhesive residue on the applicator assembly. Clean as necessary. Do not apply any lubricant to the pinion wire.
2. Manually rotate the turn motor gear from stop to stop and feel for binding conditions. Repeat this step in various positions throughout the entire stroke of the applicator. Pay special attention at both the top and bottom ends of the applicator stroke. If binding is found install KOP 83047200A. Proceed to step 3.
3. Move the applicator head up and down while holding the rack gear stationary. If the end play of the pinion wire is greater than .040" or less than .010" install KOP 83047200A. Proceed to step 4.
4. Check for continuity between the applicator head and the machine frame (See figure 1). If continuity does not exist go to step 5.
5. Check for continuity between the applicator head and the hose barb on the top of the pinion wire (See figure 1). If continuity exists, proceed to step 6. If continuity does not exist, install KOP 83047200A and proceed to step 6.
6. Check for continuity between the machine frame and the hose barb at the top of the pinion wire (See figure 1). If there is no continuity, correctly install the ground wire from the vacuum gauge through the vacuum hose to the hose barb on the top of the pinion wire (See figure 1).

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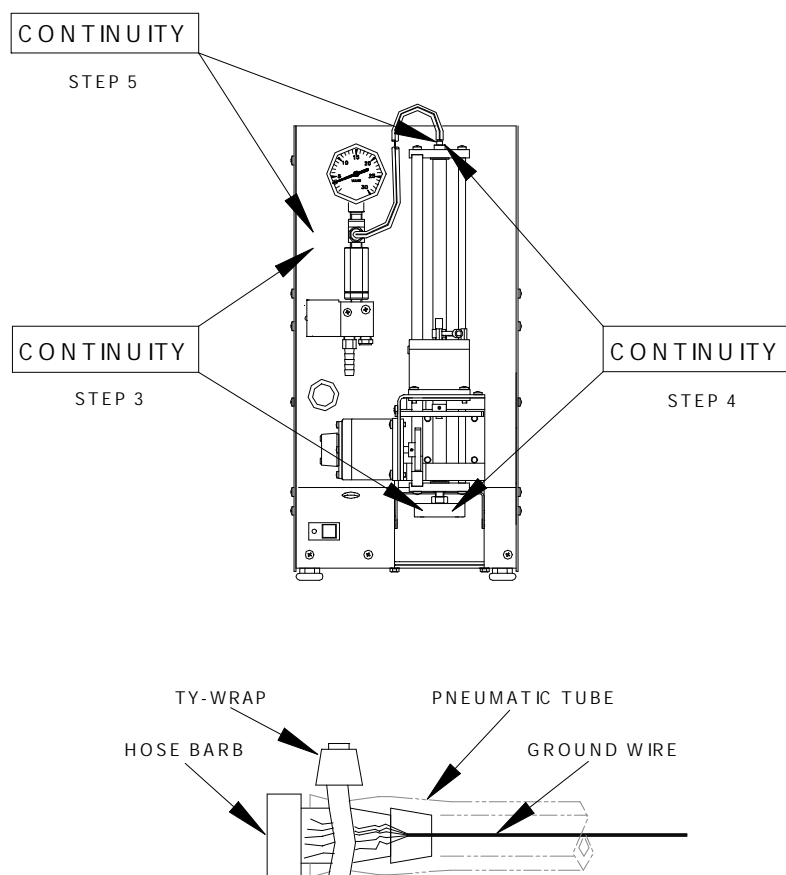


Figure 1

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Included in KOP 83047200A are the following parts:

1	A82807700A	Pinion Wire Assembly
1	82636400A	Top Pinion Mounting Bracket
1	82669300A	Bottom Pinion Mounting Bracket
2	82640100A	Flange Bearings
4	82715400A	M4x12 Phillips Pan Head Screws
1	82784200A	Applicator Locknut
1	82915300A	Pinion Ground Wire
1	2763001	Applicator Hose
2	A80655300A	Tie Wraps
1	E82767700A	Applicator EPROM

Assemble and adjust the applicator assembly using the procedures outlined in section 6 of the 317 Service manual. Apply Blue Loctite 242 to the pinion mounting bracket screws and the applicator head when assembling. Use the tie wraps to help secure the applicator hose to the pinion wire and the vacuum valve assembly.

Note: This KOP includes new applicator software. This software must be used in conjunction with the new pinion wire.

If you are in need of this kit, please contact Dave Hoffmann at MTFW at (414) 835-4411. Kits will be supplied as required at no charge. Warranty reimbursement of \$25.00 for labor per unit will be made when the old parts are returned accompanied by a PPR to Dave Hoffmann at MTFW. There will be no reimbursement for travel or mileage.