FCO CA13403: Locking "Picker Move" Solenoid Upgrade

Internal document number: 719-00927A-B

Product

- Kodak® Trendsetter® Autoloader
- Kodak Trendsetter NEWS™

FCO priority

Next PM

Machines affected

All MPE, MCE and GMCE Trendsetter AL and NEWS devices that do not have the following boxes marked on the FCO 100 Label:

- Box # 5 (GMCE all devices)
- Box # 35 (TMCE Trendsetter NEWS)
- Box # 27 (TMCE Trendsetter AL)

Component

Autoloader manifold: “Picker move” solenoid

Background

This is a **mandatory safety upgrade**, which must be installed on all Trendsetter NEWS and Trendsetter Autoloader output devices.

Currently, the autoloader manifold uses a two-position solenoid valve labeled “picker move” for the picker’s up/down movement. When the picker is in the up position, a steady flow of compressed air is needed to keep the picker in that position.

If the compressed air supply is turned off while someone is working on the picker in the up position, the picker assembly will fall downward slowly by gravity as the air is purged. This creates a hazard, because re-energization of the compressed air supply results in sudden, unexpected movement of the picker assembly, which can seriously injure anyone in its path.

Solution

Replace the two-position pneumatic solenoid for the picker up/down movement with a three-position solenoid that locks the picker in place when the air supply or power is removed from the device.

Time required

Approximately 0.3 hr

Parts required

Part Number	Part Name	Quantity
512-00447A	KIT,PNEU PICKER LOCK,UNIVERSAL,TS8	1
Contains:		
55-0989	VALVE,AIR,DOUBLE SOL,24VDC,3POS/4WAY	1
216-00230	CABLE,ADAPTER,PNEU VALVE,NV TO VQ,TS8	2
382-01834A	LABEL,PICKER MOVE WITH LOCK,TS8	1

Upgrade Procedure

1. Lower the unload table with the **`table down`** command.
2. Turn off the device power and compressed air supply.
3. Remove the right-hand side shoulder panel to access the autoloader manifold.

   Locate the double-action solenoid labeled “Picker Move”.

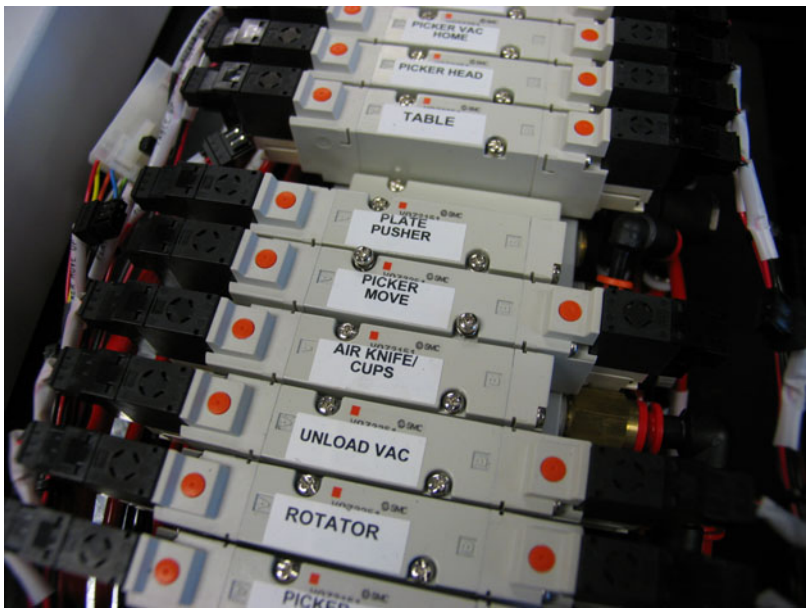


Figure 1: Two-position “picker move” solenoid

4. Unplug the two connectors.
5. Loosen the two screws and remove the solenoid.
6. Install the new three-position locking solenoid *180 degrees rotated* so the longer side of the solenoid doesn’t interfere with the shoulder panel.

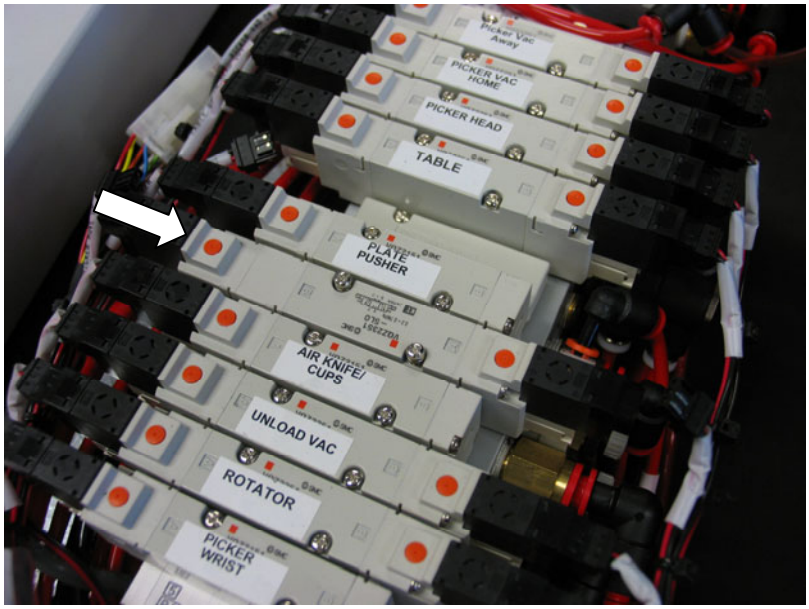


Figure 2: Three-position solenoid installed

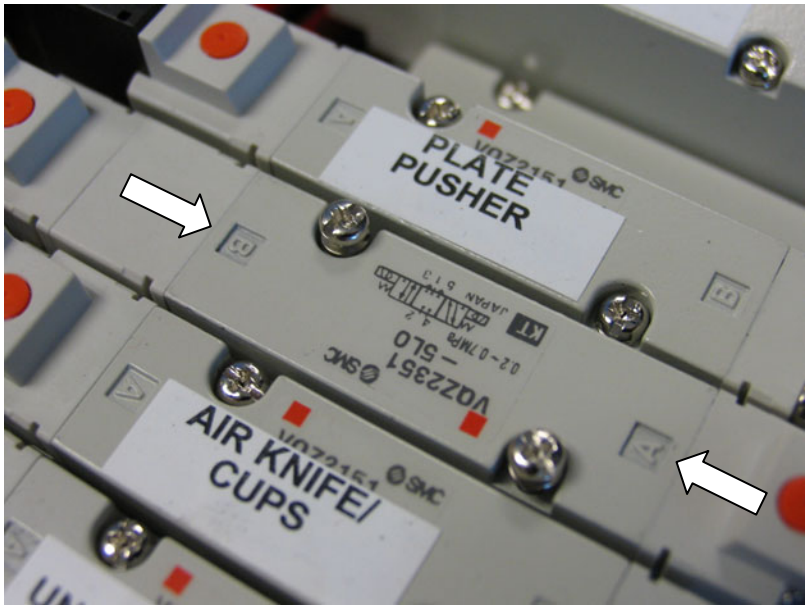


Figure 3: Three-position solenoid orientation (A and B markings reversed relative to other solenoids)

7. Connect the signal cables to the new solenoid.

   If you are performing this upgrade on an older device, you may need the adapter cable (216-00230) from the kit. Otherwise, discard the adapter cable.

8. Reinstate the compressed air supply to the device and check for leaks at the manifold.

Final Check

1. Push the orange buttons on the solenoid to move the picker up and down. Check to see whether it holds the picker in position when the button is released at different positions.
2. Affix the supplied label (382-01834A) to the solenoid.
3. Reinstall the shoulder panel and power up the device.
4. Run some jobs to ensure that the device runs properly.
5. Check the appropriate box on the FCO 100-label on the back of the Trendsetter:
   - Box # 4 (GMCE all devices)
   - Box # 35 (TMCE Trendsetter NEWS)
   - Box # 27 (TMCE Trendsetter AL)

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