FCO CA12621: Coolant upgrade procedure, single head

Internal document number: 719-00871A-B

Product

- Kodak® Trendsetter® 800
- Kodak Trendsetter® NEWS

FCO priority

FYI – upon customer request

Machines affected TS8 MPE, TMCE and GMCE devices with a single head

Component Heat exchanger

Background

Some regions or customers may have HSE regulations that restrict the use of ethylene glycol at particular sites. Any Trendsetter or Trendsetter NEWS customer that requests HSE-friendly propylene glycol coolant should be upgraded.

Some of the fittings used on the Trendsetter are not compatible with propylene glycol coolant. Both the thermal head and the device may require upgrades. Only TH2 heads can be upgraded in the field. GMCE devices marked with 100 label #2 (Viton seals) do not require the device portion of the upgrade.

Solution

Replace hose fittings that are not compatible with propylene glycol coolant. Replace the coolant.

Time required 2 hours

Parts required

Part Number	Part Name	Quantity
512-00451A	Coolant upgrade kit single head TS	1

Tools required

- hex key set
- flat-head screwdriver
- paper towel
- utility blade
- combination wrench set or adjustable wrenches
- empty 4-litre container

Procedure

- Determine device configuration
- Upgrade device
- Upgrade head if necessary
- Refill cooling system

Determining Device Configuration

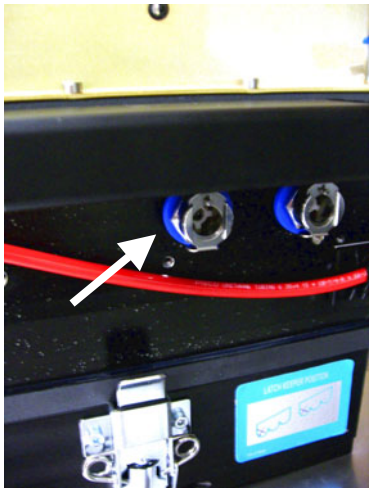
1. Check the 100 label on the device.
2. If it is a GMCE device with label #2 checked, a device upgrade is not required.

   If it is a GMCE device and label #2 is not checked, or if the device is TS8 MPE or TMCE, upgrade the device.
3. Check the water-hose bulkhead connections on the thermal head.

   If the connections have blue silicone washers, a head upgrade is not required. (See photos)



TH2 with new fittings – no upgrade required



TH1.7 with new fittings – no upgrade required

If a TH1.7 head does not have blue silicone washers, it cannot be upgraded in the field.

If a TH2 head does not have blue silicone washers, it can be upgraded.

Upgrading the Device for Propylene Glycol Coolant

To prepare the device for the new coolant you must:

- Drain the existing coolant
- Replace the internal hose connectors

Draining the existing coolant

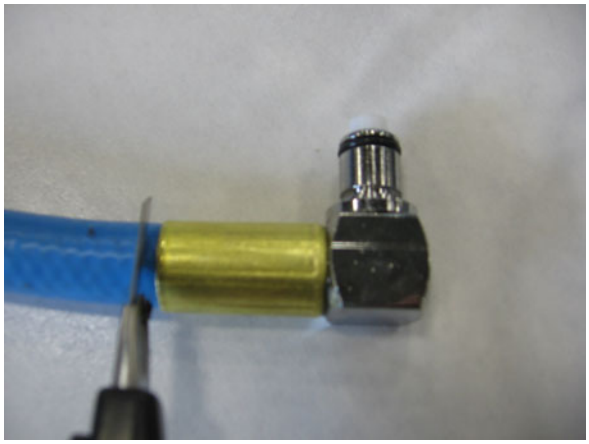
1. Remove both the rear panel and the rear fan box panel.
2. Have an empty 4-litre container available to collect the coolant.
3. Disconnect the hose that connects to the heat exchanger from the head.
4. Connect the new reservoir input cap (50-2164B) from the kit to that hose.
5. Place the hose into the empty container.
6. Turn the device on and wait until the coolant stops flowing.

7. Turn the device off.
8. Pour 1/2 of a jug of the new coolant into the reservoir and repeat steps 6 and 7.
9. Remove the reservoir input cap (50-2164B) from the hose.

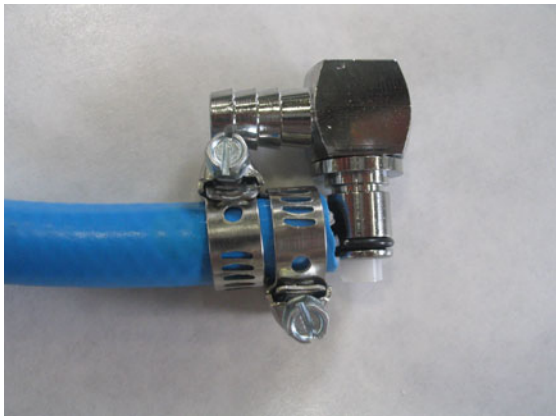
Replacing the internal hose connectors

All male hose connections must be replaced. There are three on the device – one at the reservoir connection and two at the head. For each connection:

1. Cut the hose just below the ferrule.



2. Install two hose clamps per male fitting as shown in the photo.



3. Press in a new male connector.
4. Tighten the clamps.
5. Replace the old reservoir cap on the reservoir connector with the new reservoir input cap (50-2164B).
6. Ensure the strainer is clean and in place.

Upgrading a Thermal 2 Head for Propylene Glycol Coolant

1. Using the parts and tool in kit 512-00325A, follow the instructions in *Replacing the Coolant Connectors on a TH2 head* (719-00658A) except for the following:

- The location of the fittings is different.
- The coolant has already been drained from the head, so the draining kit (50-2465A) and procedure (719-00220A) are not required.

Filling the Cooling System with Propylene Glycol Coolant

1. Fill the reservoir with the premixed coolant (090-00326A) up to the **MAX** line on the reservoir's fluid level gauge.
2. Turn on the device.
3. As the cooling system hoses fill with coolant, the level in the reservoir will go down. Add coolant slowly until the level remains stable.
4. Check for leaks, especially around the newly installed hoses and fittings.
5. Use a clean cloth or wipe, and 50/50 isopropyl alcohol/water to clean an area on the fan box near the reservoir cap.
6. Place the yellow coolant label (382-01812A) from the kit in that location.
7. Replace the reservoir cap, the rear panel, and rear fan box.

FCO 100 label number	4
Material disposition	Dispose of the old (pink) coolant, hoses, and fittings in compliance with local regulations.
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