



INSTRUCTION TO SERVICE

ITS: 5330	
SECTION:	260 Battery Compartment
WRITTEN BY:	Mike Pearson
SUBJECT:	Cover EMP OK6 Rooftop Oil Cooler Fan Harnesses

ITS5330

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PROCEDURE:

1. Before proceeding with ITS hook up to the coach using Vansco.
 - a. Enter diagnostics mode and go to the HP (Hybrid Prop) Logic View page.
 - b. Look for the signal that controls the roof fan speed. Refer to figure 1 below for reference.

NOTE: The naming convention may change depending on the customer.

- c. You will note that in this example, O17-3 controls the OK6 fan speed. The flag that controls this value is F17-131.

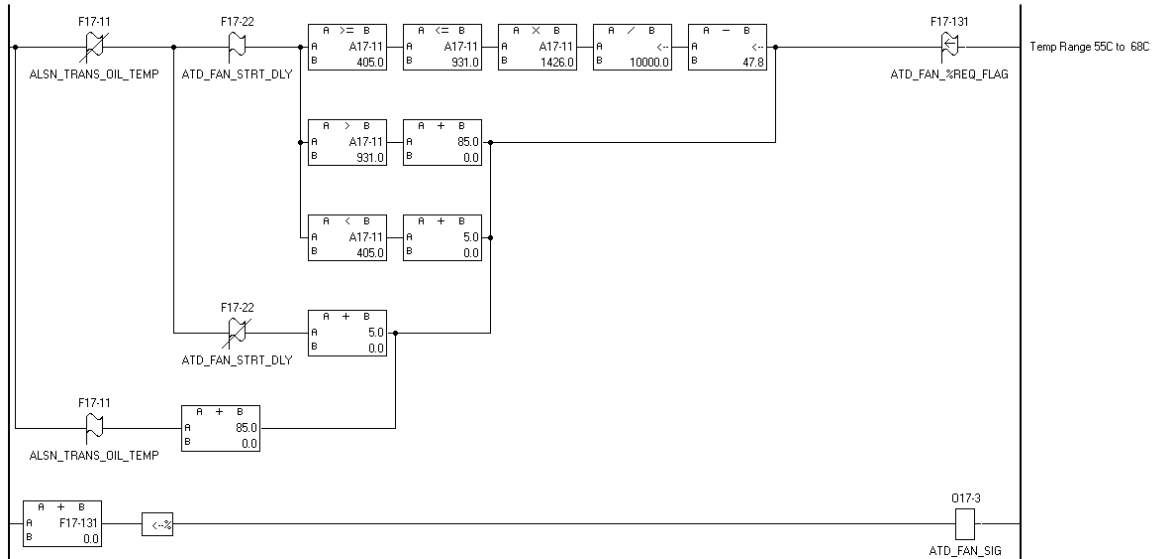


Figure 1: Logic View Page

- d. When inside diagnostics mode, right click in the open white space and click on “Open Status Window”.
- e. Locate the flag (F17-131 in this example) and force the value from 0 to 100. You should hear the fans rev up and down.
- f. Using approved fall safety protection equipment climb on the bus roof and verify that **each** fan is behaving correctly to the signal, if a fan is not working correctly report it and only repair working fans.



Figure 2: EMP OK6 Oil Cooler Unit

2. After verifying that all fans work correctly come down from roof and turn the main battery disconnect switch to the "OFF" position.
3. Using approved fall safety protection equipment climb on the bus roof.
4. Disconnect one fan assembly harness at a time and do the following steps:
 - a. Clip and remove zip tie securing the fan harness to the fan housing.
 - b. Slide the existing loom toward the connector end of the harness to bare over half of the fan harness.
 - c. Cut approx. 18" of self fusing insulated tape and wrap the harness starting from the fan housing end. Be sure to read the self fusing insulated tape suppliers installation instructions before proceeding.



Figure 3: Fan Harness Preparation

- d. After applying the 18" length of tape to wrap approx. half the harness, slide the existing loom over the newly wrapped harness to the fan housing end. Cut approx. 18" more of the self fusing tape and wrap the remaining fan harness as close to the connector as possible. Cut approx. 12" more of the self fusing tape and wrap the end of harness and approx. 3/4" of the connector. Examine the main harness connectors as well and if wires are cracked cut approx. 12" of tape and wrap same as fan connector.



Figure 4: Fan & Main Harness Connector Wrap

- e. Apply Sika to the end of the fan harness where it butts against the fan housing and work the adhesive into any crevice that could allow moisture to penetrate.



Figure 5: Adhesive Application, Fan End

- f. Apply Sika to the end of the fan harness and main harness where it butts against the harness connector and work the adhesive into any crevice that could allow moisture to penetrate.

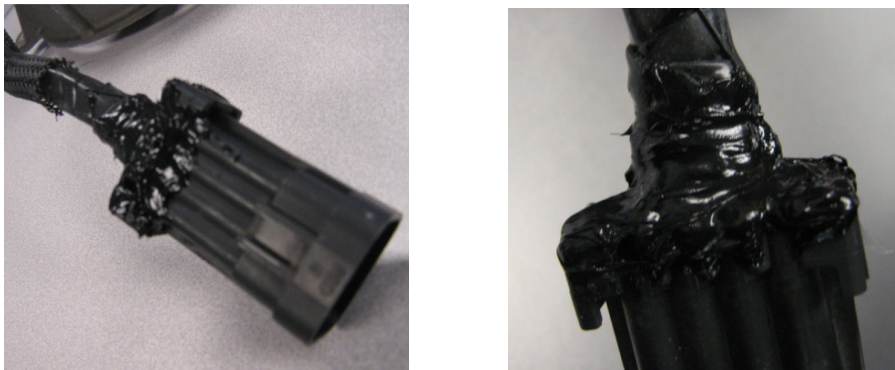


Figure 6: Adhesive Application, Connector End

- g. Secure the fan harness to the housing using the same hole as the original zip tie was located, See Step 4a.



Figure 7: Harness Securing



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5. Make sure that all the fan harnesses are secure and all the fan harness connectors are properly fastened and come down off the bus.
6. Turn the main battery disconnect switch to the "ON" position and using Steps 1a thru 1f force the rooftop oil cooler fans on again.
7. Using approved fall safety protection equipment climb on the bus roof and verify that the fans that worked at the start are all working.
8. Climb down from the roof and after everything has been verified to be working correctly turn the battery disconnect switch off and back on to automatically reset the force to normal.



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LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	Cover EMP OK6 Rooftop Oil Cooler Fan Harnesses	1	1.5	1.5

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	6411846	Tape-Self Fusing Insulation, Blk	0.75	EA	36' roll
2	5958112	Tyrap- 7" Blk	1	EA	
3	055698	Sika-Adhesive 252 Blk	.1	EA	310 ml cartridge

SPECIAL TOOLS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	N/A	N/A	N/A	EA	