L-3 COMMUNICATIONS WX-500 STORMSCOPE LIGHTNING DETECTION SYSTEM - ADJUSTMENT/TEST

1. General

A. This section gives the adjustment and test procedures for the L-3 Communications WX-500 Stormscope Lightning Detection System. For a general overview of the WX-500 Stormscope Lightning Detection System refer to L-3 Communications WX-500 Stormscope Lightning Detection System - Description and Operation.

2. L-3 Communications WX-500 Stormscope Lightning Detection System Operational Check

A. Tools and Equipment

NOTE: For the supplier publication part number and manufacturer data, refer to the Introduction - Supplier Publication List.

(1) Tools and Equipment

- None.

(2) Special Consumables

- None.

(3) Reference Material

- L-3 Communications WX-500 Stormscope Lightning Detection System - Description and Operation
- Garmin G1000 Integrated Avionics System - Adjustment/Test.

B. Prepare the Airplane

(1) Make sure that the switches that follow are in the OFF position:

(a) BATTERY switch.

(b) EXTERNAL POWER switch.

(c) AVIONICS 1 and 2 switches.

(2) Connect external electrical power to the airplane.

(3) Make sure that all the circuit breakers on the Avionics circuit breaker panel are engaged.

(4) Put the switches that follow to the positions given:

(a) External POWER switch to the BUS position.

(b) BATTERY switch to the ON position.

(c) Avionics 1 and 2 switches to the ON position.

(5) After the Garmin G1000 system is fully initiated refer to Garmin G1000 Integrated Avionics System - Adjustment/Test and do the steps that follow:

(a) Do the Architecture Verification check and make sure all related systems are serviceable. Refer to Garmin G1000 Integrated Avionics System - Adjustment/Test, G1000 Architecture Verification Check.

(b) Make sure that the correct software and configuration has been installed.

C. Stormscope Circuit Breaker Operational Test (Refer to Figure 501).

(1) On the multifunction display (MFD) use the inner and outer FMS knobs to navigate to the MAP-STORMSCOPE page.

(a) Make sure that a normal map is shown.

(2) Disengage the STM SCOPE circuit breaker found on the Avionics circuit breaker panel.

(a) Make sure that LIGHTNING FAIL shows on a blank map.

(3) Engage the STM SCOPE circuit breaker.

(a) Make sure that LIGHTNING FAIL no longer shows on the map.

3. Closeout

A. Put the Airplane Back to its Initial Condition.

(1) Put the switches that follow to the OFF position:

(a) BATTERY switch.

(b) EXTERNAL POWER switch.

(c) AVIONICS 1 and 2 switches.

(2) Disconnect external electrical power from the airplane.

Figure 501 : Sheet 1 : Stormscope Failure Screen

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