

ZONES: 100 200  
 A/C NUMBER:  
 REV. DATE: 05/25/06  
 FREQUENCY: 8A

W/C NUMBER: 390F2902      DATE:

TOOLS	DESCRIPTION	QTY
F72917-19	Equipment - Test, Ground Fault Protection system,	1

**PANELS**

117A

**REFERENCES**

AMM 24-22-00

**MECH**      **INSP**

|                      MPD ITEM: 29-080-00

OPERATIONAL CHECK OF EMDP GROUND FAULT PROTECTION SYSTEM.

1. Ground Fault Protection System Test

\_\_\_\_\_      XXXXX      A. Prepare for the Test

- (1) Do this task: Supply Electrical Power  
 (AMM TASK 24-22-00-860-811 p201).

WARNING: BE CAREFUL WHEN YOU OPEN/CLOSE CIRCUIT BREAKERS  
 INSIDE THE P91 AND P92 PANELS AND POWER IS  
 SUPPLIED TO THE PANELS. THERE IS A POTENTIAL  
 FOR ELECTRIC SHOCK HAZARD. POSSIBLE INJURY TO  
 PERSONNEL AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) Open these circuit breakers and attach DO-NOT-CLOSE  
 tags:

(a) Power Distribution Panel Number 2, P92:

- 1) 92C8 ELEC HYD PUMP CONTROL SYS A
- 2) 92F3 ELEC HYD PUMP SYS A

(b) Power Distribution Panel Number 1, P91:

- 1) 91C8 ELEC HYD PUMP CONTROL SYS B
- 2) 91F3 ELEC HYD PUMP SYS B

- (3) Make sure the reset switch for the system B electric  
 1 hydraulic pump ground fault detector (M1106), in  
 the P91 panel and the system A electric 2 hydraulic  
 pump ground fault detector (M1105), in the P92 panel  
 are reset.

- (4) Make sure these switches on the forward overhead

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panel, P5, are set to the OFF position:

(a) HYD PUMPS A ELEC 2

(b) HYD PUMPS B ELEC 1

XXXXX B. System A Ground Fault Detector Test

WARNING: YOU MUST CONNECT THE GROUNDING CABLE FOR THE TEST EQUIPMENT TO THE AIRPLANE GROUND BEFORE YOU CONNECT THE ELECTRICAL CONNECTOR FOR THE PUMP TO THE TEST EQUIPMENT. INJURY TO PERSONS CAN OCCUR.

- (1) Disconnect the electrical connector from the system A EMDP.
- (2) Connect the test equipment, F72917-19 ground clip (green) to the ground strap on the EMDP.
- (3) Connect the test equipment, F72917-19 conductor return clip (black) to the ground strap on the EMDP.
- (4) Connect the test equipment, F72917-19 connector to the electrical connector for the EMDP.

WARNING: BE CAREFUL WHEN YOU OPEN/CLOSE CIRCUIT BREAKERS INSIDE THE P91 AND P92 PANELS AND POWER IS SUPPLIED TO THE PANELS. THERE IS A POTENTIAL FOR ELECTRIC SHOCK HAZARD. POSSIBLE INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (5) Remove the DO-NOT-CLOSE tags and close these circuit breakers:
  - (a) Power Distribution Panel Number 2, P92:
    - 1) 92C8 ELEC HYD PUMP CONTROL SYS A
    - 2) 92F3 ELEC HYD PUMP SYS A
- (6) Set the HYD PUMPS A ELEC 2 switch, on the P5 panel, to the ON position.
- (7) Set the test switch S2, on the test equipment, F72917-19, to the NO TRIP position.

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(8) Push and hold the test switch S1, on the test equipment, F72917-19.

(a) Make sure the light L1 comes on.

(9) Release the test switch S1.

(10) Put the test switch S2 to the TRIP position.

(a) Make sure the light L1 goes off.

(11) Put the test switch S2 to the NO TRIP position.

(a) Make sure the light L1 stays off.

(12) Momentarily push the reset switch on the ground fault detector for hydraulic system A.

NOTE: The reset switch on the ground fault detector (M1105) is located in the equipment center on the P92 panel.

(13) Push and hold the test switch S1.

(a) Make sure the light L1 comes on.

(14) Release the test switch S1.

(15) Set the HYD PUMPS A ELEC 2 switch, on the P5 panel, to the OFF position.

(a) Make sure the test light L1 goes off.

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(16) Open these circuit breakers and attach DO-NOT-CLOSE tags:

(a) Power Distribution Panel Number 2, P92:

1) 92C8 ELEC HYD PUMP CONTROL SYS A

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2) 92F3 ELEC HYD PUMP SYS A

- (17) Disconnect the test equipment, F72917-19 connector from the electrical connector for the system A EMDP.

XXXXX C. System B Ground Fault Detector Test

WARNING: YOU MUST CONNECT THE GROUNDING CABLE FOR THE TEST EQUIPMENT TO THE AIRPLANE GROUND BEFORE YOU CONNECT THE ELECTRICAL CONNECTOR FOR THE PUMP TO THE TEST EQUIPMENT. INJURY TO PERSONS CAN OCCUR.

- (1) Disconnect the electrical connector from the system B EMDP.
- (2) Connect the test equipment, F72917-19 connector to the electrical connector for the EMDP.

WARNING: BE CAREFUL WHEN YOU OPEN/CLOSE CIRCUIT BREAKERS INSIDE THE P91 AND P92 PANELS AND POWER IS SUPPLIED TO THE PANELS. THERE IS A POTENTIAL FOR ELECTRIC SHOCK HAZARD. POSSIBLE INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (3) Remove the DO-NOT-CLOSE tags and close these circuit breakers:

(a) Power Distribution Panel Number 1, P91:

- 1) 91C8 ELEC HYD PUMP CONTROL SYS B
- 2) 91F3 ELEC HYD PUMP SYS B

- (4) Set the HYD PUMPS B ELEC 1 switch, on the P5 panel, to the ON position.
- (5) Set the test switch S2, on the test equipment, F72917-19, to the NO TRIP position.
- (6) Push and hold the test switch S1, on the test equipment, F72917-19.

(a) Make sure the light L1 comes on.

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- (7) Release the test switch S1.
- (8) Put the test switch S2 to the TRIP position.
  - (a) Make sure the light L1 goes off.
- (9) Put the test switch S2 to the NO TRIP position.
  - (a) Make sure the light L1 stays off.
- (10) Momentarily push the reset switch on the ground fault detector for hydraulic system B.

NOTE: The reset switch on the ground fault detector (M1106) is located in the equipment center on the P91 panel.

- (11) Push and hold the test switch S1.
  - (a) Make sure the light L1 comes on.
- (12) Release the test switch S1.
- (13) Set the HYD PUMPS B ELEC 1 switch, on the P5 panel, to the OFF position.
  - (a) Make sure the test light L1 goes off.

WARNING: BE CAREFUL WHEN YOU OPEN/CLOSE CIRCUIT BREAKERS INSIDE THE P91 AND P92 PANELS AND POWER IS SUPPLIED TO THE PANELS. THERE IS A POTENTIAL FOR ELECTRIC SHOCK HAZARD. POSSIBLE INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (14) Open these circuit breakers and attach DO-NOT-CLOSE tags:
  - (a) Power Distribution Panel Number 1, P91:
    - 1) 91C8 ELEC HYD PUMP CONTROL SYS B
    - 2) 91F3 ELEC HYD PUMP SYS B
- (15) Disconnect the test equipment, F72917-19 connector from the electrical connector for the system B EMDP.

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(16) Disconnect the test equipment, F72917-19 from the ground strap.

(17) Reconnect the electrical connectors to the system B and the system A EMDP.

WARNING: BE CAREFUL WHEN YOU OPEN/CLOSE CIRCUIT BREAKERS INSIDE THE P91 AND P92 PANELS AND POWER IS SUPPLIED TO THE PANELS. THERE IS A POTENTIAL FOR ELECTRIC SHOCK HAZARD. POSSIBLE INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT CAN OCCUR.

(18) Remove the DO-NOT-CLOSE tags and close these circuit breakers:

(a) Power Distribution Panel Number 1, P91:

- 1) 91C8 ELEC HYD PUMP CONTROL SYS B
- 2) 91F3 ELEC HYD PUMP SYS B

(b) Power Distribution Panel Number 2, P92:

- 1) 92C8 ELEC HYD PUMP CONTROL SYS A
- 2) 92F3 ELEC HYD PUMP SYS A

\*\*\*\*\*END OF WORKCARD\*\*\*\*\*