

ATA AIRLINES, INC.

CENTER EFIS SYMBOL GENERATOR

PAGE 1 / 5

CHECK BEING PERFORMED: Custom

ZONES: 211
A/C NUMBER:
REV. DATE: 11/13/03
FREQUENCY: 1A

W/C NUMBER: 221M3402 DATE:
W/O:
JAC CODE:

REFERENCES

FIGURES 1, 2, 3, and 4

MECH INSP

VERIFY CENTER EFIS SYMBOL GENERATOR OPERATION.

1. Center EFIS Symbol Generator Test.

A. References.

(1) AMM 24-22-00/401, Electrical Power - Control.

B. Access.

(1) Location Zones.

(a) 211/212 Flight Compartment.

C. Prepare for Test.

- _____ XXXXX (1) Supply electrical power (Ref AMM 24-22-00).
- _____ XXXXX (2) On the left and right instrument source select panels, put the switches and controls in the positions indicated:
- (a) EFI - NORM (out).
- _____ XXXXX (3) On the P3 panel, put the HDG REF switch in the NORM position.
- _____ XXXXX (4) On the AFDS mode control panel, set the two F/D switches to the OFF position.
- _____ XXXXX (5) Open these circuit breakers on the overhead circuit breaker panel, P11, and attach DO-NOT-CLOSE tags:
- (a) 11F2, WX RADAR.
- (b) 11F27, WX RADAR RIGHT. (IF CONFIGURED)
- _____ XXXXX (6) Make sure these circuit breakers on the P11 panel are

REVISION DATE: 11/13/03

ATA AIRLINES, INC. B757 FLEET

W/C #: 221M3402

DATE WORK CARD COMPLETE ___/___/___

A/C NUMBER:

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W/C NUMBER: 221M3402 (continued)

MECH: INSP:

closed:

- (a) 11C30, LANDING GEAR POS SYS 1.
- (b) 11S15, AIR/GND SYS 1.

D. Procedure.

_____ XXXXX (1) Make sure these circuit breakers on the P11 panel are closed:

- (a) 11A7, EFIS DSPL SW LEFT.
- (b) 11E3, ADI LEFT.
- (c) 11E4, EFIS CONT PNL LEFT.
- (d) 11E6, HSI LEFT.
- (e) 11E24, ADI RIGHT.
- (f) 11E25, EFIS CONT PNL RIGHT.
- (g) 11E27, HSI RIGHT.
- (h) 11F8, EFIS SYM GEN LEFT.
- (i) 11F9, EFIS SYM GEN CENTER.
- (j) 11F24, EFIS DSPL SW RIGHT.
- (k) 11F29, EFIS SYM GEN RIGHT.

_____ XXXXX (2) On the right EFIS control panel, put the switches and controls in the positions indicated:

- (a) Range Select - 80 NM.
- (b) HSI MOSE Select - MAP.
- (c) WXR Select - ON (in).
- (d) TERR Select - OFF (out).

A/C NUMBER:

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W/C NUMBER: 221M3402 (continued)

MECH: INSP:

Note: Applicable to aircraft IPC numbers 609 and higher.

(e) MAP NAVAID - ON (in).

(f) MAP ARPT - ON (in).

(g) MAP RTE DATA - ON (in).

Note: Applicable to aircraft IPC numbers 608 and lower.

(h) MAP DATA - ON (in).

Note: Applicable to aircraft IPC numbers 609 and higher.

(i) MAP WPT - ON (in).

(j) ADI BRT and HSI BRT - Fully clockwise.

_____ XXXXX (3) Push the TEST switch on the right overhead light control panel.

_____ XXXXX (4) Make sure that the right EADI and EHSI displays are equivalent to the MAP mode in Figures 1 & 2 for aircraft IPC numbers 649 and below or Figures 3 & 4 for aircraft IPC numbers 650 and above.

(a) Make sure that the EHSI display has an indicated range of 80 NM.

_____ XXXXX (5) On the right overhead light control panel, push the TEST switch to remove the electrical power from the test circuits.

_____ XXXXX (6) Open this circuit breaker on the P11 panel:

(a) 11F29, EFIS SYM GEN RIGHT.

_____ XXXXX (7) Make sure that the right EADI and EHSI displays go out of view.

A/C NUMBER:

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W/C NUMBER: 221M3402 (continued)

MECH: INSP:

- _____ XXXXX (8) Set the right EFI instrument source select switch to ALTN.
- _____ XXXXX (9) Push the TEST switch on the right overhead light control panel.
- _____ XXXXX (10) Make sure that the right EADI and EHSI displays are equivalent to the MAP mode in Figures 1 & 2 for aircraft IPC numbers 649 and below or Figures 3 & 4 for aircraft IPC numbers 650 and above.
 - (a) Make sure that the EHSI display has an indicated range of 80 NM.
- _____ XXXXX (11) On the right overhead light control panel, push the TEST switch to remove the electrical power from the test circuits.
- _____ XXXXX (12) Close this circuit breaker on the P11 panel:
 - (a) 11F29, EFIS SYM GEN RIGHT.
- _____ XXXXX (13) Set the right EFI instrument source select switch to NORM.
- _____ XXXXX (14) Make sure that the right EADI and EHSI displays are correct.
- _____ XXXXX (15) On the right EFIS control panel, set the switches and controls to these positions:
 - (a) WXR Select - OFF (out).
 - (b) MAP NAVAID - OFF (out).
 - (c) MAP ARPT - OFF (out).
 - (d) MAP RTE DATA - OFF (out).

Note: Applicable to aircraft IPC numbers 608 and lower.

A/C NUMBER:

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W/C NUMBER: 221M3402 (continued)

MECH: INSP:

(e) MAP DATA - OFF (out).

Note: Applicable to aircraft IPC numbers 609 and higher.

(f) MAP WPT - OFF (out).

(g) ADI BRT and HSI BRT - Fully counterclockwise.

_____ XXXXX (16) Remove the DO-NOT-CLOSE tags and close these circuit breakers on the P11 panel:

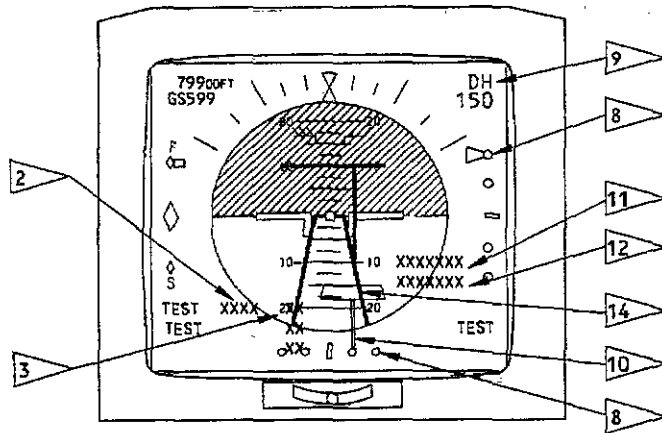
(a) 11F2, WX RADAR.

(b) 11F27, WX RADAR RIGHT. (IF CONFIGURED)

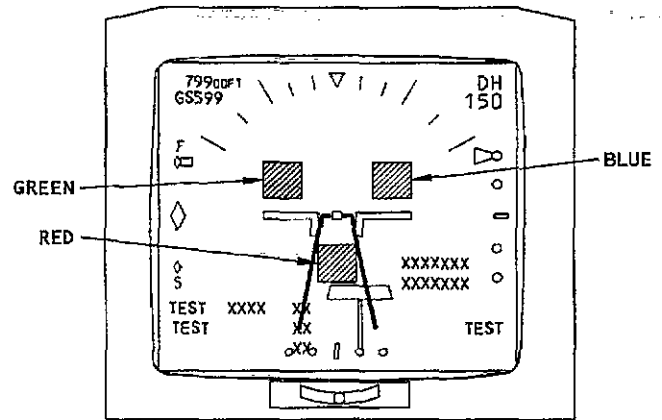
E. Put the Airplane Back to Its Usual Condition.

_____ XXXXX (1) Remove electrical power if it is not necessary (AMM 24-22-00).

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



MAP, VOR, AND ILS MODES



PLAN MODE

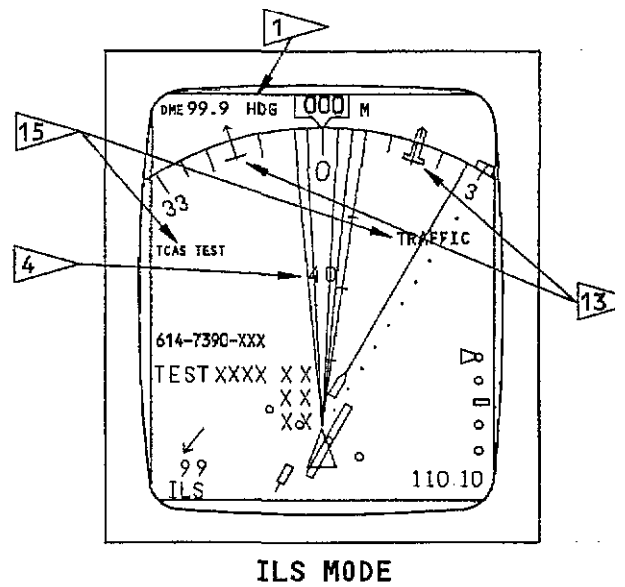
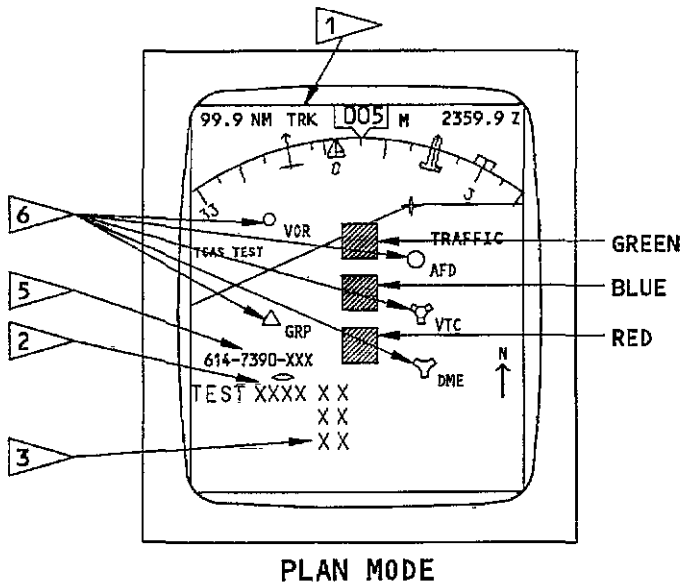
EADI

THIS UNIT IS ELECTROSTATIC SENSITIVE

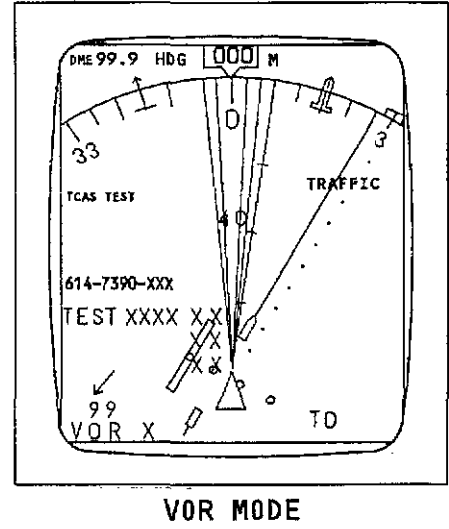
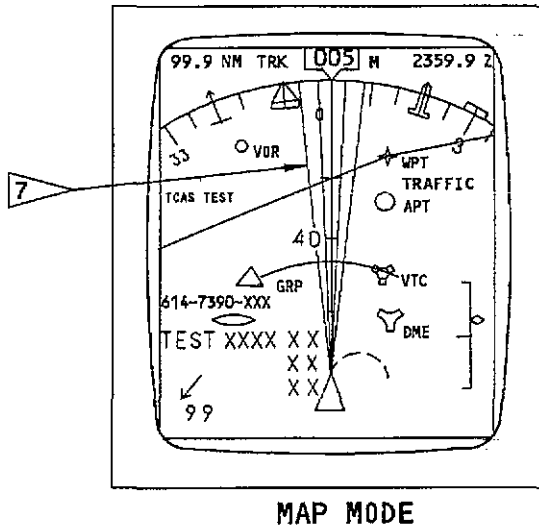
NOTE: SYMBOLOGY COLORS SAME AS FOR NORMAL OPERATION.

- 1 PRESENTATION IS SET BY THE STATE OF THE PROGRAM PIN AND/OR DIGITAL DISCRETE INPUT
- 2 TEST MESSAGE "OK" OR "FAIL"
- 3 FAILURE MESSAGE-CP (CONTROL PANEL); DU (DISPLAY UNIT); AND SG (SYMBOL GENERATOR)
- 4 NUMERIC VALUE SHOWS THE EFIS CONTROL PANEL RANGE SELECTION
- 5 SOFTWARE VERSION
- 6 SHOWS THE HSI MAP DATA SELECTED ON THE EFIS CONTROL PANEL
- 7 ATT 001-608;
RED-YELLOW-GREEN WXR TEST PATTERN
ATT 609-999;
MAGENTA-RED-YELLOW-GREEN WXR TEST PATTERN
- 8 THE G/S AND LOC SCALES AND POINTERS WILL NOT SHOW IF THE FREQUENCY ON THE ILS CONTROL PANEL IS IN THE "PK" POSITION
- 9 "DH" WILL SHOW FOR DH ALERT CONDITIONS; OTHERWISE, THE DECISION HEIGHT FROM THE EFIS CONTROL PANEL WILL SHOW
- 10 BAR FLASHES FOR ILS DEVIATION WARNING
- 11 AIRPLANES WITH EFIS SYMBOL GENERATORS -413 AND SUBSEQUENT;
PROGRAM PIN HEX CODES ARE SHOWN
- 12 AIRPLANES WITH -420 EFIS SYMBOL GENERATORS AND SUBSEQUENT;
THERE ARE THREE HEX CODE LINES
- 13 AAT 506-999;
THE ADF POINTERS ARE SHOWN
- 14 AAT 601-999;
THE VERTICAL RESOLUTION ADVISORY IS SHOWN
- 15 AAT 601-999;
THE TCAS MESSAGES ARE SHOWN

EFIS Test Patterns

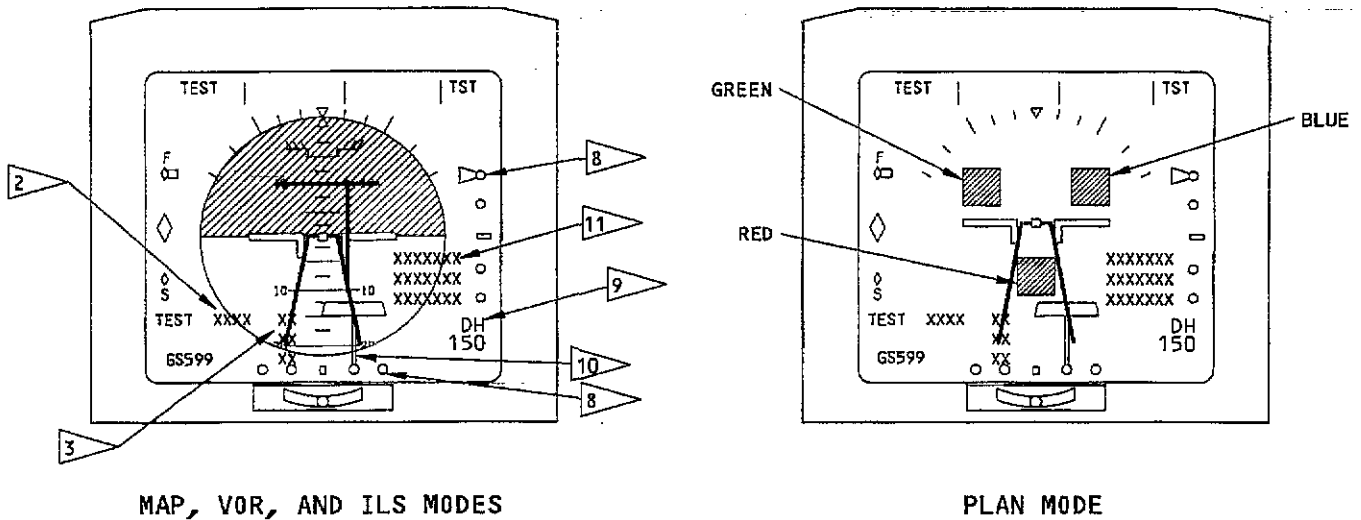


EHSI



THIS UNIT IS ELECTROSTATIC SENSITIVE

EFIS Test Patterns



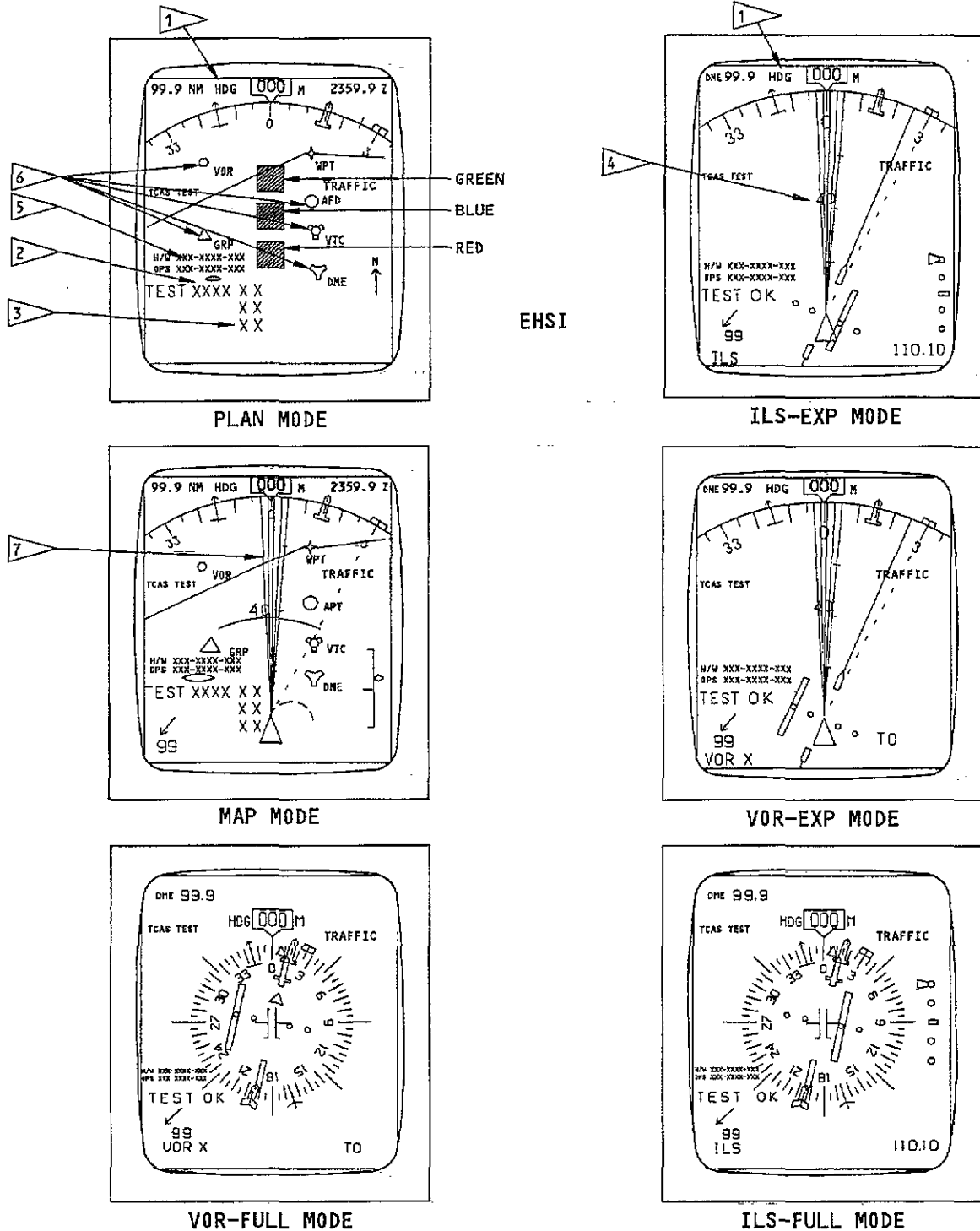
EADI

THIS UNIT IS ELECTROSTATIC SENSITIVE

NOTE: SYMBOLLOGY COLDRS SAME AS FOR NORMAL OPERATION.

- 1 PRESENTATION IS SET BY THE STATE OF THE PROGRAM PIN AND/OR DIGITAL DISCRETE INPUT
- 2 TEST MESSAGE "OK" OR "FAIL"
- 3 FAILURE MESSAGE-CP (CONTROL PANEL); DU (DISPLAY UNIT); AND SG (SYMBOL GENERATOR)
- 4 NUMERIC VALUE SHOWS THE EFIS CONTROL PANEL RANGE SELECTION
- 5 SOFTWARE VERSION
- 6 SHOWS THE HSI MAP DATA SELECTED ON THE EFIS CONTROL PANEL
- 7 MAGENTA-RED-YELLOW-GREEN WXR TEST PATTERN
- 8 THE G/S AND LOC SCALES AND POINTERS WILL NOT SHOW IF THE FREQUENCY ON THE ILS CONTROL PANEL IS IN THE "PK" POSITION
- 9 "DH" WILL SHOW FOR DH ALERT CONDITIONS; OTHERWISE, THE DECISION HEIGHT FROM THE EFIS CONTROL PANEL WILL SHOW
- 10 BAR FLASHES FOR ILS DEVIATION WARNING
- 11 PROGRAM PIN HEX CODES

EFIS Test Patterns



EFIS Test Patterns