



## AIRCRAFT MAINTENANCE MANUAL

### (145) FMS (UNIVERSAL) CONFIGURATION MODULE / (135) DUAL FMS CONFIGURATION MODULE - MAINTENANCE PRACTICES

EFFECTIVITY: AIRCRAFT WITH FMS UNIVERSAL

#### 1. General

- A. This section gives the procedures to program the FMS configuration module.
- B. The configuration module is a serially connected EEPROM designed to store the configuration data that is specific to the aircraft installation. The EEPROM is attached to the navigation computer unit (NCU) mounting rack. The user can view and initialize the aircraft configuration through specially designed menus that can be accessed through the control display unit (CDU). The configuration module receives and transmits data to the NCU via private serial communication busses.
- C. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
34-62-03-400-801-A	DUAL FMS CONFIGURATION MODULE - PROGRAMMING	AIRCRAFT WITH FMS UNIVERSAL
34-62-03-400-802-A	SINGLE FMS CONFIGURATION MODULE - PROGRAMMING	AIRCRAFT WITH FMS UNIVERSAL



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 34-62-03-400-801-A

EFFECTIVITY: AIRCRAFT WITH FMS UNIVERSAL

2. DUAL FMS CONFIGURATION MODULE - PROGRAMMING

A. General

- (1) This task gives the procedures to program the Dual FMS configuration module.
- (2) The programming of the configuration module shall be made at the time of installation. The data is inserted through the FMS1 and FMS2 control display units (CDU) located on control pedestal aft panel.
- (3) The [SUBTASK 470-002-A](#) Programming Procedure is applicable to aircraft PRE-MOD [S.B. 145-34-0056](#) only.
- (4) The [SUBTASK 470-003-A](#) Programming Procedure is applicable to aircraft POST-MOD [S.B. 145-34-0056](#) only.

B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 34-62-00-700-801-A/500	-
<a href="#">S.B.145-34-0056</a>	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

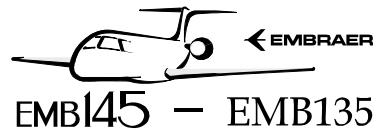
H. Persons Recommended

QTY	FUNCTION	PLACE
1	Performs the task	Cockpit

I. Preparation

[SUBTASK 841-002-A](#)

- (1) Energize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).



AIRCRAFT  
MAINTENANCE MANUAL

- (2) On the circuit breaker panel, located on the cockpit ceiling, make sure that the FMS1 and FMS2 circuit breakers are closed.

J. Programming Procedure ([Figure 201](#)) ([Figure 202](#))

SUBTASK 470-002-A

EFFECTIVITY: PRE-MOD S.B. 145-34-0056

NOTE: All the steps must be carried out in both FMS1 and FMS2 control display units (CDU).

- (1) Do the programming of the configuration module as follows:

- (2) LOADING THE DISPLAY CONFIGURATION DATA:

- (a) On the CDU, push the PWR/DIM control key.

Result:

- 1 The system will come on and self test will occur. The initialize page will be displayed.

- (b) Push the ACCEPT left line select key (5L).

- (c) Push the DATA mode key four times.

Result:

- 1 The DATA 4/4 page is shown.

- (d) Push the DATE right line select key (1R) to highlight the data field.

- (e) Through the keyboard, enter the code "456789" and then push the ENTER control key.

- (f) Push the DATA mode key.

Result:

- 1 The DATA 1/4 page is shown.

- (g) Push the MAINT right line select key (5R).

Result:

- 1 The MAINT 1/1 page is shown.

- (h) Push the CONFIG left line select key (1L).

Result:

- 1 The CONFIG 1/2 page is shown.

- (i) Push the EDIT right line select key (1R) and then push the DISPLAY left line select key (1L).

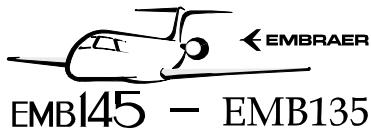
Result:

- 1 The DISPLAY CONFIG page is shown.

- (j) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 201 - DISPLAY CONFIGURATION

Step	Content	Item number to be entered	Result
1	COLORS	1	STANDARD



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

## (3) LOADING THE FUEL CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

1 The CONFIG 1/2 page is shown.

- (b) Push the FMS CONFIG left line select key (2L).

Result:

1 The FMS CONFIG 1/2 page is shown.

- (c) Push the FUEL left line select key (2L).

Result:

1 The FUEL OPT 1/1 page is shown.

- (d) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 202 - FMS CONFIG - FUEL CONFIGURATION

Step	Content	Value/Item number to be entered	Result
1	FUEL MODE	1	ENABLED
2	DISPLAY UNITS	1(2)	LBS (KGS)
3	# OF ENGINES	2	2
4	EMPTY WEIGHT	[1]	[2]
5	FUEL FLOW TYPE	6	DIGITAL

[1] The values to be entered must be in according to aircraft model as follows:  
(EMB145ER, EU and EP) 11800 KGS (26400 LBS).  
(EMB145LR and LU) 12400 KGS (27300 LBS).  
(EMB145MP) 12400 KGS (27300 LBS).  
(EMB135ER) 11500 KGS (25300 LBS).  
(EMB135LR) 11500 KGS (25300 LBS).  
(EMB135KE and KL) 11800 KGS (26400 LBS).

[2] The result corresponds to the value inserted in footnote .

## (4) LOADING THE APU CONFIGURATION DATA:

- (a) Push the APU right line select key (3R).

Result:

1 The APU OPT 1/1 page is shown.

- (b) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 203 - APU CONFIGURATION

Step	Content	Value/Item number to be entered	Result
1	FUEL FLOW 1	0	0 LBS (0 KGS)
2	FUEL FLOW 2	95 (43)	95 LBS (43 KGS)
3	FUEL FLOW 3	145 (66)	145 LBS (66 KGS)
4	FUEL FLOW 4	160 (73)	160 LBS (73 KGS)
5	APU SOURCE	3	DIGITAL

**(5) LOADING THE FUEL FLOW SCALING CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).

Result:

1 The FUEL OPT 1/1 page is shown.

- (b) Push the FF SCALE right line select key (2R).

Result:

1 The FF SCALING 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 204 - FUEL FLOW SCALING CONFIGURATION

Step	Content	Value to be entered	Result
1	MIN FF	300	300 PPH

**(6) LOADING THE PERFORMANCE CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

1 The FMS CONFIG 1/2 page is shown.

- (b) Push the PERF left line select key (3L).

Result:

1 The PERF OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 205 - PERFORMANCE CONFIGURATION

Step	Content	Value/Item number to be entered	Result
1	BASIC	1	ENABLED
2	MANUAL	2	DISABLED
3	ADVANCED	2	DISABLED
4	CLIMB GRAD	500	500 FT/NM

**(7) LOADING THE VNAV CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).

Result:

1 The FMS CONFIG 1/2 page is shown.

- (b) Push the VNAV left line select key (4L).

Result:

1 The VNAV OPT 1/2 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 206 - VNAV CONFIGURATION 1

Step	Content	Value/Item number to be entered	Result
1	VNAV MODE	1	ENABLED
2	FPA LIMIT	90	9.0°
3	VDEV STOW	2	DISABLED
4	VDEV OUTPUT	1	NORMAL
5	TEMP COMP	2	DISABLED

- (d) Push the NEXT control key.

Result:

1 The VNAV OPT 2/2 page is shown.

- (e) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 207 - VNAV CONFIGURATION 2

Step	Content	Item number to be entered	Result
1	VDEV	1	ENRT+APPR
2	PITCH	1	ENRT+APPR
3	VERT SPD	1	ENRT+APPR
4	ANALOG DEV	1	DISABLED
5	PITCH	4	DISABLED

(8) LOADING THE APPROACH CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

1 The FMS CONFIG 1/2 page is shown.

- (b) Push the APPR left line select key (5L).

Result:

1 The APPR OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 208 - APPROACH CONFIGURATION

Step	Content	Value/Item number to be entered	Result
1	APPR MODE	1	ENABLED
2	REMOTE TUNE	1	ENABLED
3	REMOTE ARM	2	DISABLED

Table 208 - APPROACH CONFIGURATION (Continued)

<b>Step</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
4	FPA LIMIT	90	9.0°
5	ROLL GAINS	3	3 x

(9) LOADING THE APPROACH TYPES CONFIGURATION DATA:

- (a) Push the APPR TYPES left line select key (5L).

Result:

- 1 The APPR TYPES 1/2 page is shown.

NOTE: GPS, NDB, VOR, RNV and VFR, are not configurable on the APPROACH TYPES pages.

- (b) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 209 - APPROACH TYPES CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	ILS	2	ADVISORY
2	LOC	1	ENABLED
3	BC	1	ENABLED

(10) LOADING THE EFIS CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R) twice.

Result:

- 1 The FMS CONFIG 1/2 page is shown.

- (b) Push the EFIS right line select key (2R).

Result:

- 1 The EFIS OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 210 - EFIS CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	TYPE	1	429 ADV

(11) LOADING THE PL-4 CONFIGURATION DATA:

- (a) Push the PL-4 OPTS left line select key (4L).

Result:

- 1 The PL-4 OPTS 1/1 page is shown.

- (b) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 211 - PL-4 CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	CHP	2	N/A
2	RADAR TYPE	3	N/A
3	PL-4 REF	3	N/A
4	ADF DIAG	3	N/A
5	FUEL MAX	1	N/A
6	TCAS	3	N/A
7	MLS	3	N/A
8	RAD ALT	3	N/A

**(12) LOADING THE NAV CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

1 The FMS CONFIG 1/2 page is shown.

- (b) Push the NAV right line select key (3R).

Result:

1 The NAV OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 212 - NAV CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
1	A/C TYPE	1	FIXED WING
2	A/C ROLL STR	2	DISABLED
3	AT OR BELOW	20000	20000 FT
4	BANK LIMIT	270	27.0°
5	AT OR ABOVE	32000	32000 FT
6	BANK LIMIT	150	15.0°
7	HDG SEL	2	ENRT ONLY

**(13) LOADING THE TUNE CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).

Result:

1 The FMS CONFIG 1/2 page is shown.

- (b) Push the TUNE right line select key (4R).

Result:

- 1 The TUNE OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 213 - TUNE CONFIGURATION

Step	Content	Value to be entered	Result
1	# COMS	2	2
2	# NAVS	2	2
3	# ADFS	[1]	[2]
4	# ATC	1	1

[1] The values to be entered should be in according to ADF installed, as follows:  
 (For aircraft with one ADF installed) - "1".  
 (For aircraft with two ADFs installed) - "2".

[2] The result corresponds to the value inserted in footnote .

**(14) LOADING THE DISCRETES - DISCRETE IN CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

- 1 The CONFIG 1/2 page is shown.

- (b) Push the DISCRETES left line select key (3L).

Result:

- 1 The DISC OPT 1/1 page is shown.

- (c) Push the DISCRETE IN left line select key (2L).

Result:

- 1 The DISC IN 1/2 page is shown.

**NOTE:** If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page. To go back, push the RETURN line select key.

- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 214 - DISCRETES - DISCRETE IN CONFIGURATION 1

Step	Content	Item number to be entered	Result
1	DISC IN 1	5	FREQ MNGT
2	DISC IN 2	1	NONE
3	DISC IN 3	1	NONE
4	DISC IN 4	1	NONE
5	DISC IN 5	1	NONE
6	DISC IN 6	1	NONE
7	DISC IN 7	1	NONE
8	DISC IN 8	1	NONE

- (e) Push the NEXT control key.  
 Result:  
 1 The DISC IN 2/2 page is shown.
- (f) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 215 - DISCRETES - DISCRETE IN CONFIGURATION 2

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	DISC IN 9	1	NONE
2	DISC IN 10 28V	1	NONE
3	DISC IN 11	1	NONE

**(15) LOADING THE DISCRETES - DISCRETE OUT CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.  
 Result:  
 1 The DISC OPT 1/1 page is shown.
- (b) Push the DISCRETE OUT left line select key (3L).  
 Result:  
 1 The DISC OUT 1/2 page is shown.

**NOTE:** If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page.

- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 216 - DISCRETES - DISCRETE OUT CONFIGURATION 1

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	DISC OUT 1	2	HDG ANN
2	DISC OUT 2	1	NONE
3	DISC OUT 3	1	NONE
4	DISC OUT 4	1	NONE
5	DISC OUT 5	1	NONE
6	DISC OUT 6	1	NONE
7	DISC OUT 7	1	NONE
8	DISC OUT 8	1	NONE

- (d) Push the NEXT control key.  
 Result:  
 1 The DISC OUT 2/2 page is shown.

**CAUTION:** DISC OUT 9 MUST BE A 28 V DC/OPEN TYPE SIGNAL (FMS VAL).

- (e) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 217 - DISCRETES - DISCRETE OUT CONFIGURATION 2

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	DISC OUT 9 28V	8	FMS VAL

(16) LOADING THE ARINC - RECEIVE PORTS CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R) twice.

Result:

1 The CONFIG 1/2 page is shown.

- (b) Push the ARINC left line select key (4L).

Result:

1 The ARINC OPT 1/1 page is shown.

- (c) Push the RECEIVE left line select key (1L).

Result:

1 The ARINC RCV 1/1 page is shown.

NOTE: If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page.

- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 218 - ARINC - RECEIVE PORTS CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered FMS1 and FMS2</b>	<b>Result</b>	
			<b>FMS1</b>	<b>FMS2</b>
1	PORT 0	3	LSGPS1 B1	LSGPS2 B1
2	PORT 1	1	NO SENSOR	NO SENSOR
3	PORT 2	[1]	[1]	[1]
4	PORT 3	3	LSGPS2 B1	LSGPS1 B1
5	PORT 4	1	NO SENSOR	NO SENSOR
6	PORT 5	3	IC 600 R-04	IC 600 R-04
7	PORT 6	4	IC 600 L -04	IC 600 L -04
8	PORT 7	4	CROSSFILL 1	CROSSFILL 1

[1] Option; Result:  
(Aircraft without UNILINK) 1; NO SENSOR  
(Aircraft with UNILINK) 3; UNILINK

(17) LOADING THE ARINC - TRANSMIT CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

1 The ARINC OPT 1/1 page is shown.

- (b) Push the TRANSMIT left line select key (2L).  
 Result:  
1 The ARINC XMIT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 219 - ARINC - RECEIVE PORTS CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered FMS1 and FMS2</b>	<b>Result</b>
1	PORT 0	5	IC 600 - 01
2	PORT 1	2	429 HS
3	PORT 2	2	429 LS
4	PORT 3	3	429 XFILL

**(18) LOADING THE ARINC - 561 TRANSMIT CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).  
 Result:  
1 The ARINC OPT 1/1 page is shown.
- (b) Push the 561 XMIT left line select key (3L).  
 Result:  
1 The A561 XMIT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 220 - ARINC - 561 TRANSMIT CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	561 BUS	1	LRN DATA
2	DTG FORMAT	1	ARINC 561

**(19) LOADING THE CSDB CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.  
 Result:  
1 The CONFIG 1/2 page is shown.
- (b) Push the CSDB left line select key (5L).  
 Result:  
1 The CSDB OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 221 - CSDB CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	RCVR 1	3	VOR
2	RCVR 2	1	NO SENSOR
3	RCVR 3	4	DUAL DME
4	RCVR 4	1	NO SENSOR
5	XMITTER 1	1	NONE
6	XMITTER 2	2	TUNE

(20) LOADING THE ANALOG CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The CONFIG 1/2 page is shown.

- (b) Push the ANALOG right line select key (2R).

Result:

- 1 The ANALOG OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 222 - ANALOG CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	WPT BRG SIG	2	WPT BRG
2	WPT BRG FMT	1	NONE
3	OFFSET	2	+0
4	RELATIVE TO	1	NOSE
5	PITCH CMD	1	NONE
6	DESIRED TRK	1	NONE
7	RELATIVE TO	1	NOSE
8	ANALOG ATT	1	NONE

(21) LOADING THE AIR DATA CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The CONFIG 1/2 page is shown.

- (b) Push the AIR DATA left line select key (4L).

Result:

- 1 The AIR DATA 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

**Table 223 - AIR DATA CONFIGURATION**

<b>Step</b>	<b>Content</b>	<b>Value/Item num- ber to be en- tered</b>	<b>Result</b>
1	ALT DISPLAY	3	BOTH
2	A/S DISPLAY	2	TAS AND IAS
3	MINIMUM TAS PRES	60	60 KTS
4	SAT FORMAT	2	DIGITAL
5	MACH FORMAT	2	DIGITAL
6	BARO ALT FMT	2	DIGITAL
7	PRES ALT FORMAT	2	DIGITAL
8	A/S FORMAT	1	DIGITAL

**(22) LOADING THE AIRCRAFT IDENTIFICATION DATA:**

- (a) Push the RETURN right line select key (5R).  
 Result:  
 1 The CONFIG 1/2 page is shown.
- (b) Push the NEXT control key.  
 Result:  
 1 The CONFIG 2/2 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

**Table 224 - CONFIG 2/2 - AIRCRAFT IDENTIFICATION**

<b>Step</b>	<b>Content</b>	<b>Value to be en- tered</b>	<b>Result</b>
1	SCN	603±X	603.X
2	AIRCRAFT IDENTIFICA- TION	ERJ145 (ERJ135)	ERJ145 (ERJ135)

**(23) LOADING THE PILOT DATA, FLIGHT PLAN AND LOG, AND STRUT SWITCH CONFIGURATION DATA:**

- (a) Push the PREV control key.  
 Result:  
 1 The CONFIG 1/2 page is shown.
- (b) Push the FMS CONFIG left line select key (2L).  
 Result:  
 1 The FMS CONFIG 1/2 page is shown.
- (c) Push the NEXT control key.  
 Result:  
 1 The FMS CONFIG 2/2 page is shown.

- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 225 - PILOT DATA, FLIGHT PLAN AND LOG, AND STRUT SWITCH CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	POS EST DISP	1	Q
2	MAX STBY TIME	[1]	[1]
3	PLT DB & PWRUP	1(2)	RETAINED (CLEARED)
4	STRUT SW	2	DIGITAL
5	FLIGHT LOG	2	DISABLED

[1] Option;Result:  
 1:DISABLED  
 2:2 HOURS  
 3:4 HOURS  
 4:6 HOURS  
 5:8 HOURS

(24) LOADING THE CROSSFILL CONFIGURATION DATA:

- (a) Push the XFILL left line select key (1L).  
 Result:  
 1 The XFILL OPT 1/1 page is shown.
- (b) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 226 - CROSSFILL OPTIONS CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	MASTER	1	ENABLED
2	INIT	1	ENABLED
3	FUEL	1	ENABLED
4	FPL	1	ENABLED
5	XFILL MODE	1	PULL
6	TUNE PRESETS	1	ENABLED

(25) LOADING THE CABIN DISPLAY CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).  
 Result:  
 1 The FMS CONFIG 2/2 page is shown.
- (b) Push the CABIN DISP left line select key (2L).  
 Result:  
 1 The CABIN DISP 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 227 - CABIN DISPLAY CONFIGURATION

Step	Content	Item number to be entered	Result
1	CABIN DISP	2	DISABLED

(26) SAVING THE NEW CONFIGURATION:

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The FMS CONFIG 2/2 page is shown.

- (b) Push the STORE right line select key (1R) twice to save the new configuration.

Result:

- 1 The display shows the UPDATING CONFIGURATION message, the system will reset itself and initiate power on self tests.

- (c) After self test, push the PWR/DIM key, then the OFF right line select key (5R), then the CONFIRM/OFF right line select key (1R).

Result:

- 1 The system is turned off.

K. Programming Procedure ([Figure 201](#)) ([Figure 202](#))

**SUBTASK 470-003-A**

**EFFECTIVITY: POST-MOD S.B. 145-34-0056**

**NOTE:** All the steps must be carried out in both FMS1 and FMS2 control display units (CDU).

- (1) Do the programming of the configuration module as follows:

- (2) LOADING THE DISPLAY CONFIGURATION DATA:

- (a) On the CDU, push the PWR/DIM control key.

Result:

- 1 The system will come on and self test will occur. The initialize page will be displayed.

- (b) Push the ACCEPT left line select key (5L).

- (c) Push the DATA mode key four times.

Result:

- 1 The DATA 4/4 page is shown.

- (d) Push the DATE right line select key (1R) to highlight the data field.

- (e) Through the keyboard, enter the code "456789" and then push the ENTER control key.

- (f) Push the DATA mode key.

Result:

- 1 The DATA 1/4 page is shown.

- (g) Push the MAINT right line select key (5R).

Result:

1 The MAINT 1/1 page is shown.

- (h) Push the CONFIG left line select key (1L).

Result:

1 The CONFIG 1/2 page is shown.

- (i) Push the EDIT right line select key (1R) and then push the DISPLAY left line select key (1L).

Result:

1 The DISPLAY CONFIG page is shown.

- (j) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 228 - DISPLAY CONFIGURATION

Step	Content	Item number to be entered	Result
1	COLORS	1	STANDARD

(3) LOADING THE FUEL CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

1 The CONFIG 1/2 page is shown.

- (b) Push the FMS CONFIG left line select key (2L).

Result:

1 The FMS CONFIG 1/3 page is shown.

- (c) Push the FUEL left line select key (2L).

Result:

1 The FUEL OPT 1/1 page is shown.

- (d) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 229 - FMS CONFIG - FUEL CONFIGURATION

Step	Content	Value/Item number to be entered	Result
1	FUEL MODE	1	ENABLED
2	DISPLAY UNITS	1(2)	LBS (KGS)
3	# OF ENGINES	2	2
4	EMPTY WEIGHT	[1]	[2]

[1] The values to be entered must be in according to aircraft model as follows:  
 (EMB145ER, EU and EP) 11800 KGS (26400 LBS).  
 (EMB145LR and LU) 12400 KGS (27300 LBS).  
 (EMB145MP) 12400 KGS (27300 LBS).  
 (EMB135ER) 11500 KGS (25300 LBS).  
 (EMB135LR) 11500 KGS (25300 LBS).  
 (EMB135KE and KL) 11800 KGS (26400 LBS).

[2] The result corresponds to the value inserted in footnote .

**Table 229 - FMS CONFIG - FUEL CONFIGURATION (Continued)**

<b>Step</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
5	FUEL FLOW TYPE	6	DIGITAL

(4) LOADING THE APU CONFIGURATION DATA:

- (a) Push the APU right line select key (3R).

Result:

1 The APU OPT 1/1 page is shown.

- (b) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

**Table 230 - APU CONFIGURATION**

<b>Step</b>	<b>Content</b>	<b>Value/Item num- ber to be entered</b>	<b>Result</b>
1	FUEL FLOW 1	0	0 LBS (0 KGS)
2	FUEL FLOW 2	95 (43)	95 LBS (43 KGS)
3	FUEL FLOW 3	145 (66)	145 LBS (66 KGS)
4	FUEL FLOW 4	160 (73)	160 LBS (73 KGS)
5	APU SOURCE	3	DIGITAL

(5) LOADING THE FUEL FLOW SCALING CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

1 The FUEL OPT 1/1 page is shown.

- (b) Push the FF SCALE right line select key (2R).

Result:

1 The FF SCALING 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

**Table 231 - FUEL FLOW SCALING CONFIGURATION**

<b>Step</b>	<b>Content</b>	<b>Value to be en- tered</b>	<b>Result</b>
1	MIN FF	300	300 PPH

(6) LOADING THE PERFORMANCE CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R) twice.

Result:

1 The FMS CONFIG 1/3 page is shown.

- (b) Push the PERF left line select key (3L).

Result:

- 1 The PERF OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 232 - PERFORMANCE CONFIGURATION

Step	Content	Value/Item number to be entered	Result
1	BASIC	1	ENABLED
2	MANUAL	2	DISABLED
3	ADVANCED	2	DISABLED
4	CLIMB GRAD	500	500 FT/NM

(7) LOADING THE VNAV CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The FMS CONFIG 1/3 page is shown.

- (b) Push the VNAV left line select key (4L).

Result:

- 1 The VNAV OPT 1/2 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 233 - VNAV CONFIGURATION 1

Step	Content	Value/Item number to be entered	Result
1	VNAV MODE	1	ENABLED
2	FPA LIMIT	90	9.0°
3	VDEV STOW	2	DISABLED
4	VDEV OUTPUT	1	NORMAL
5	TEMP COMP	2	DISABLED

- (d) Push the NEXT control key.

Result:

- 1 The VNAV OPT 2/2 page is shown.

- (e) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 234 - VNAV CONFIGURATION 2

Step	Content	Item number to be entered	Result
1	VDEV	1	ENRT+APPR
2	PITCH	1	ENRT+APPR

**Table 234 - VNAV CONFIGURATION 2 (Continued)**

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
3	VERT SPD	1	ENRT+APPR
4	ANALOG DEV	1	DISABLED
5	PITCH	4	DISABLED

**(8) LOADING THE APPROACH CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).

Result:

1 The FMS CONFIG 1/3 page is shown.

- (b) Push the APPR left line select key (5L).

Result:

1 The APPR OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

**Table 235 - APPROACH CONFIGURATION**

<b>Step</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
1	APPR MODE	1	ENABLED
2	REMOTE TUNE	1	ENABLED
3	REMOTE ARM	2	DISABLED
4	FPA LIMIT	90	9.0°
5	ROLL GAINS	3	3 x

**(9) LOADING THE APPROACH TYPES CONFIGURATION DATA:**

- (a) Push the APPR TYPES left line select key (5L).

Result:

1 The APPR TYPES 1/2 page is shown.

NOTE: GPS, NDB, VOR, RNV and VFR, are not configurable on the APPROACH TYPES pages.

- (b) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

**Table 236 - APPROACH TYPES CONFIGURATION**

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	ILS	2	ADVISORY
2	LOC	1	ENABLED
3	BC	1	ENABLED

**(10) LOADING THE EFIS CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.  
Result:  
1 The FMS CONFIG 1/3 page is shown.
- (b) Push NEXT key.  
Result:  
1 The FMS CONFIG 2/3 page is shown.
- (c) Push the EFIS right line select key (3L).  
Result:  
1 The EFIS OPT 1/1 page is shown.
- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 237 - EFIS CONFIGURATION

Step	Content	Item number to be entered	Result
1	TYPE	1	429 ADV

**(11) LOADING THE PL-4 CONFIGURATION DATA:**

- (a) Push the PL-4 OPTS left line select key (4L).  
Result:  
1 The PL-4 OPTS 1/1 page is shown.
- (b) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 238 - PL-4 CONFIGURATION

Step	Content	Item number to be entered	Result
1	CHP	2	N/A
2	RADAR TYPE	3	N/A
3	PL-4 REF	3	N/A
4	ADF DIAG	3	N/A
5	FUEL MAX	1	N/A
6	TCAS	3	N/A
7	MLS	3	N/A
8	RAD ALT	3	N/A

**(12) LOADING THE NAV CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.  
Result:  
1 The FMS CONFIG 2/3 page is shown.

- (b) Push PREV key.  
 Result:  
 1 The FMS CONFIG 1/3 page is shown.
- (c) Push the NAV right line select key (3R).  
 Result:  
 1 The NAV OPT 1/1 page is shown.
- (d) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 239 - NAV CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
1	A/C TYPE	1	FIXED WING
2	A/C ROLL STR	2	DISABLED
3	AT OR BELOW	20000	20000 FT
4	BANK LIMIT	270	27.0°
5	AT OR ABOVE	32000	32000 FT
6	BANK LIMIT	150	15.0°
7	HDG SEL	2	ENRT ONLY

(13) LOADING THE TUNE CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).  
 Result:  
 1 The FMS CONFIG 1/3 page is shown.
- (b) Push the TUNE right line select key (4R).  
 Result:  
 1 The TUNE OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 240 - TUNE CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Value to be entered</b>	<b>Result</b>
1	# COMS	2	2
2	# NAVS	2	2
3	# ADFS	[1]	[2]
4	# ATC	1	1
5	COMM RADIO	[3]	[3]

[1] The values to be entered should be in according to ADF(s) installed, as follows:  
 (For aircraft with one ADF installed) - "1".  
 (For aircraft with two ADFs installed) - "2".

[2] The result corresponds to the value inserted in footnote .

[3] Option; Result:  
 1; 8.33/25 KHz  
 2; 25 KHz

**(14) LOADING THE DISCRETES - DISCRETE IN CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

- 1 The CONFIG 1/2 page is shown.

- (b) Push the DISCRETES left line select key (3L).

Result:

- 1 The DISC OPT 1/1 page is shown.

- (c) Push the DISCRETE IN left line select key (2L).

Result:

- 1 The DISC IN 1/2 page is shown.

**NOTE:** If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page. To go back, push the RETURN line select key.

- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 241 - DISCRETES - DISCRETE IN CONFIGURATION 1

Step	Content	Item number to be entered	Result
1	DISC IN 1	5	FREQ MNGT
2	DISC IN 2	1	NONE
3	DISC IN 3	1	NONE
4	DISC IN 4	1	NONE
5	DISC IN 5	1	NONE
6	DISC IN 6	1	NONE
7	DISC IN 7	1	NONE
8	DISC IN 8	1	NONE

- (e) Push the NEXT control key.

Result:

- 1 The DISC IN 2/2 page is shown.

- (f) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 242 - DISCRETES - DISCRETE IN CONFIGURATION 2

Step	Content	Item number to be entered	Result
1	DISC IN 9	1	NONE
2	DISC IN 10 28V	1	NONE
3	DISC IN 11	1	NONE

**(15) LOADING THE DISCRETES - DISCRETE OUT CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

- 1 The DISC OPT 1/1 page is shown.

- (b) Push the DISCRETE OUT left line select key (3L).

Result:

- 1 The DISC OUT 1/2 page is shown.

**NOTE:** If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page.

- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 243 - DISCRETES - DISCRETE OUT CONFIGURATION 1

Step	Content	Item number to be entered	Result
1	DISC OUT 1	2	HDG ANN
2	DISC OUT 2	1	NONE
3	DISC OUT 3	1	NONE
4	DISC OUT 4	1	NONE
5	DISC OUT 5	1	NONE
6	DISC OUT 6	1	NONE
7	DISC OUT 7	1	NONE
8	DISC OUT 8	1	NONE

- (d) Push the NEXT control key.

Result:

- 1 The DISC OUT 2/2 page is shown.

**CAUTION:** DISC OUT 9 MUST BE A 28 V DC/OPEN TYPE SIGNAL (FMS VAL).

- (e) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 244 - DISCRETES - DISCRETE OUT CONFIGURATION 2

Step	Content	Item number to be entered	Result
1	DISC OUT 9 28V	8	FMS VAL

**(16) LOADING THE ARINC - RECEIVE PORTS CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

- 1 The CONFIG 1/2 page is shown.

- (b) Push the ARINC left line select key (4L).

Result:

- 1 The ARINC OPT 1/1 page is shown.

- (c) Push the RECEIVE left line select key (1L).

Result:

- 1 The ARINC RCV 1/1 page is shown.

**NOTE:** If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page.

- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 245 - ARINC - RECEIVE PORTS CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered FMS1 and FMS2</b>	<b>Result</b>	
			<b>FMS1</b>	<b>FMS2</b>
1	PORT 0	3	LSGPS1 B1	LSGPS2 B1
2	PORT 1	1	NO SENSOR	NO SENSOR
3	PORT 2	[1]	[1]	[1]
4	PORT 3	3	LSGPS2 B1	LSGPS1 B1
5	PORT 4	1	NO SENSOR	NO SENSOR
6	PORT 5	3	IC 600 R-04	IC 600 R-04
7	PORT 6	4	IC 600 L -04	IC 600 L -04
8	PORT 7	5	CROSSFILL 1	CROSSFILL 1

[1] Option; Result:  
(Aircraft without UNILINK) 1; NO SENSOR  
(Aircraft with UNILINK) 3; UNILINK

**(17) LOADING THE ARINC - TRANSMIT CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The ARINC OPT 1/1 page is shown.

- (b) Push the TRANSMIT left line select key (2L).

Result:

- 1 The ARINC XMIT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 246 - ARINC - RECEIVE PORTS CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered FMS1 and FMS2</b>	<b>Result</b>
1	PORT 0	5	IC 600 - 01
2	PORT 1	2	429 HS
3	PORT 2	2	429 LS
4	PORT 3	3	429 XFILL

**(18) LOADING THE ARINC - 561 TRANSMIT CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).  
Result:  
1 The ARINC OPT 1/1 page is shown.
- (b) Push the 561 XMIT left line select key (3L).  
Result:  
1 The A561 XMIT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 247 - ARINC - 561 TRANSMIT CONFIGURATION

Step	Content	Item number to be entered	Result
1	561 BUS	1	LRN DATA
2	DTG FORMAT	1	ARINC 561

**(19) LOADING THE CSDB CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.  
Result:  
1 The CONFIG 1/2 page is shown.
- (b) Push the CSDB left line select key (5L).  
Result:  
1 The CSDB OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 248 - CSDB CONFIGURATION

Step	Content	Item number to be entered	Result
1	RCVR 1	3	VOR
2	RCVR 2	1	NO SENSOR
3	RCVR 3	4	DUAL DME
4	RCVR 4	1	NO SENSOR
5	XMITTER 1	1	NONE
6	XMITTER 2	2	TUNE

**(20) LOADING THE ANALOG CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).  
Result:  
1 The CONFIG 1/2 page is shown.
- (b) Push the ANALOG right line select key (2R).

Result:

- 1 The ANALOG OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 249 - ANALOG CONFIGURATION

Step	Content	Item number to be entered	Result
1	WPT BRG SIG	2	WPT BRG
2	WPT BRG FMT	1	NONE
3	OFFSET	2	+0
4	RELATIVE TO	1	NOSE
5	PITCH CMD	1	NONE
6	DESIRED TRK	1	NONE
7	RELATIVE TO	1	NOSE
8	ANALOG ATT	1	NONE

(21) LOADING THE AIR DATA CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The CONFIG 1/2 page is shown.

- (b) Push the AIR DATA left line select key (4L).

Result:

- 1 The AIR DATA 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 250 - AIR DATA CONFIGURATION

Step	Content	Value/Item number to be entered	Result
1	ALT DISPLAY	3	BOTH
2	A/S DISPLAY	2	TAS AND IAS
3	MINIMUM TAS PRES	60	60 KTS
4	SAT FORMAT	2	DIGITAL
5	MACH FORMAT	2	DIGITAL
6	BARO ALT FMT	2	DIGITAL
7	PRES ALT FORMAT	2	DIGITAL
8	A/S FORMAT	1	DIGITAL

(22) LOADING THE AIRCRAFT IDENTIFICATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The CONFIG 1/2 page is shown.
- (b) Push the NEXT control key.

Result:

- 1 The CONFIG 2/2 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 251 - CONFIG 2/2 - AIRCRAFT IDENTIFICATION

Step	Content	Value to be entered	Result
1	SCN	604±X	604.X
2	AIRCRAFT IDENTIFICATION	ERJ145 (ERJ135)	ERJ145 (ERJ135)

- (23) LOADING THE PILOT DATA, FLIGHT PLAN AND LOG, AND STRUT SWITCH CONFIGURATION DATA:

- (a) Push the PREV control key.

Result:

- 1 The CONFIG 1/2 page is shown.

- (b) Push the FMS CONFIG left line select key (2L).

Result:

- 1 The FMS CONFIG 1/3 page is shown.

- (c) Push the NEXT control key twice.

Result:

- 1 The FMS CONFIG 3/3 page is shown.

- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 252 - PILOT DATA, FLIGHT PLAN AND LOG, AND STRUT SWITCH CONFIGURATION

Step	Content	Item number to be entered	Result
1	POS EST DISP	1	Q
2	MAX STBY TIME	[1]	[1]
3	PLT DB & PWRUP	1(2)	RETAINED (CLEARED)
4	STRUT SW	2	DIGITAL
5	FLIGHT LOG	1(2)	ENABLED(DISABLED)

[1] Option;Result:  
1:DISABLED  
2:2 HOURS  
3:4 HOURS  
4:6 HOURS  
5:8 HOURS

- (24) LOADING THE CROSSFILL CONFIGURATION DATA:

- (a) Push the PREV key.  
 Result:  
 1 The FMS CONFIG 2/3 page is shown.
- (b) Push the XFILL left line select key (1L).  
 Result:  
 1 The XFILL OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 253 - CROSSFILL OPTIONS CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	MASTER	1	ENABLED
2	INIT	1	ENABLED
3	FUEL	1	ENABLED
4	FPL	1	ENABLED
5	XFILL MODE	1	PULL
6	TUNE PRESETS	1	ENABLED

**(25) LOADING THE CABIN DISPLAY CONFIGURATION DATA:**

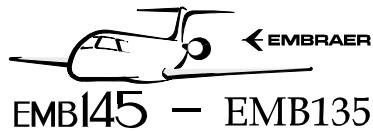
- (a) Push the RETURN right line select key (5R).  
 Result:  
 1 The FMS CONFIG 2/3 page is shown.
- (b) Push the CABIN DISP left line select key (2L).  
 Result:  
 1 The CABIN DISP 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 254 - CABIN DISPLAY CONFIGURATION

<b>Step</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	CABIN DISP	2	DISABLED

**(26) SAVING THE NEW CONFIGURATION:**

- (a) Push the RETURN right line select key (5R).  
 Result:  
 1 The FMS CONFIG 2/3 page is shown.
- (b) Push the STORE right line select key (1R) twice to save the new configuration.  
 Result:  
 1 The display shows the UPDATING CONFIGURATION message, the system will reset itself and initiate power on self tests.



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

- (c) After self test, push the PWR/DIM key, then the OFF right line select key (5R), then the CONFIRM/OFF right line select key (1R).

Result:

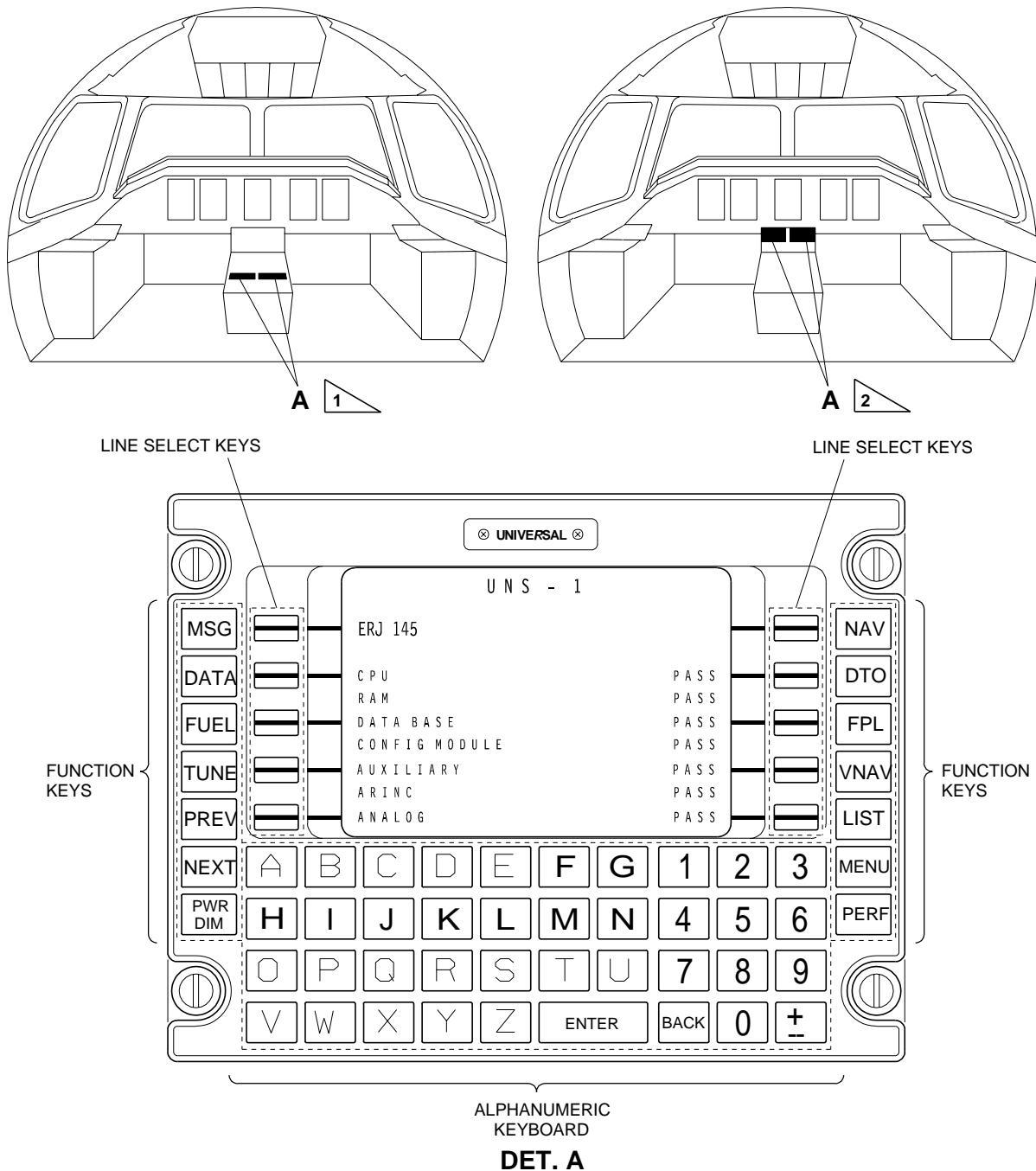
- 1 The system is turned off.

L. Follow-on

SUBTASK 842-002-A

- (1) Do the Dual FMS Operational test (AMM TASK 34-62-00-700-801-A/500).
- (2) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

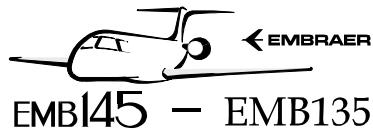
**EFFECTIVITY: AIRCRAFT WITH FMS UNIVERSAL**  
**Dual FMS Control Display Unit**  
**Figure 201**



**1** AIRCRAFT WITH FMS CDUS INSTALLED ON CONTROL PEDESTAL AFT PANEL.

**2** AIRCRAFT WITH FMS CDUS INSTALLED ON CONTROL PEDESTAL FORWARD PANEL.

145AMM340270.MCE B



AIRCRAFT  
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EFFECTIVITY: AIRCRAFT WITH FMS UNIVERSAL  
FMS Control and Displays  
Figure 202 - Sheet 1

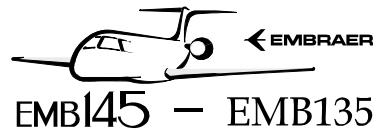
POS INIT 1 / 1		<input type="checkbox"/> MSG
		DATE
	INITIAL POS	04 - MAR - 98
	ID -----	UTC
	S 23 13.1	17 : 49 : 34
	W 045 53.4	
	STANDARD / EXTENDED	X FILL →
	NAV DATABASE EXPIRES	
	26 - MAR - 98	MSTR X FILL →
		A 12500
	← ACCEPT FMC VER	603.0

INIT 1/1 PAGE

CONFIG 1 / 2	
DISPLAY	EDIT →
FMS CONFIG	ANALOG →
DISCRETES	
ARINC	AIR DATA →
CSDB	RETURN →

CONFIG 1/2 PAGE

145AMM340295.MCE



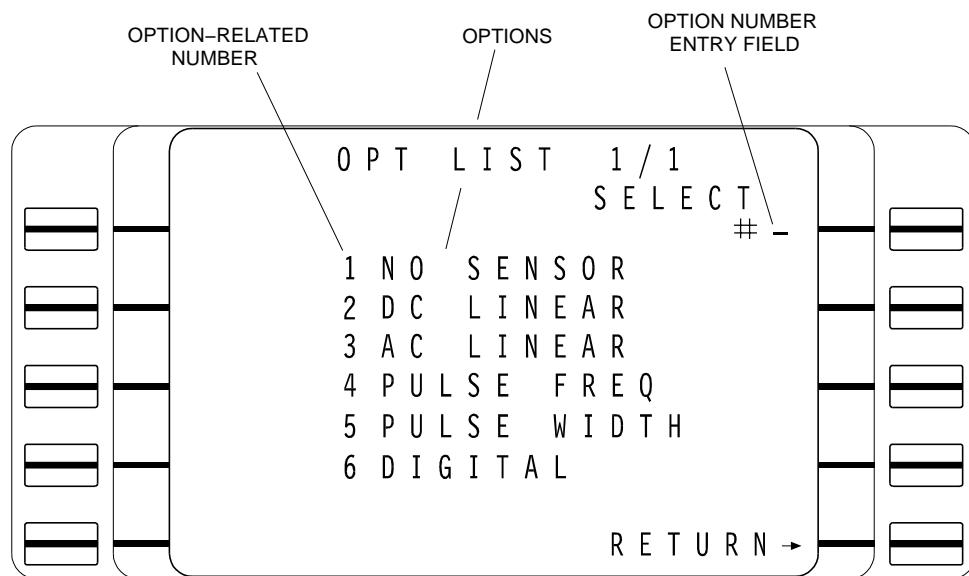
**EMB145 – EMB135**

**AIRCRAFT  
MAINTENANCE MANUAL**

**EFFECTIVITY: AIRCRAFT WITH FMS UNIVERSAL**  
FMS Control and Displays  
Figure 202 - Sheet 2



FMS CONFIG 1/2 PAGE



OPTION LIST PAGE

EM145AMM341404A.DGN



EMB145 - EMB135

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TASK 34-62-03-400-802-A

EFFECTIVITY: AIRCRAFT WITH FMS UNIVERSAL

3. SINGLE FMS CONFIGURATION MODULE - PROGRAMMING

A. General

- (1) This task gives the procedures to program the Single FMS configuration module.
- (2) The programming of the configuration module shall be made at the time of installation. The data is inserted through the FMS control display unit (CDU) located on control pedestal aft panel.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 34-62-00-700-802-A/500	SINGLE FMS - OPERATIONAL TEST

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Performs the task	Cockpit

I. Preparation

*SUBTASK 841-003-A*

- (1) Energize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (2) On the circuit breaker panel, located on the cockpit ceiling, make sure that the FMS1 circuit breaker (Location tip: DC BUS 1/NAV/FMS1) is closed.

J. Programming Procedure ([Figure 203](#)) ([Figure 204](#)) ([Figure 202](#))

*SUBTASK 470-004-A*

- (1) Do the programming of the configuration module as follows:
- (2) **LOADING THE DISPLAY CONFIGURATION DATA:**

- (a) On the CDU, push the PWR/DIM control key.  
 Result:  
 1 The system will come on and self test will occur. The initialize page will be displayed.
- (b) Push the ACCEPT left line select key (5L).
- (c) Push the DATA mode key four times.  
 Result:  
 1 The DATA 4/4 page is shown.
- (d) Push the DATE right line select key (1R) to highlight the data field.
- (e) Through the keyboard, enter the code "456789" and then push the ENTER control key.
- (f) Push the DATA mode key.  
 Result:  
 1 The DATA 1/4 page is shown.
- (g) Push the MAINT right line select key (5R).  
 Result:  
 1 The MAINT 1/1 page is shown.
- (h) Push the CONFIG left line select key (1L).  
 Result:  
 1 The CONFIG 1/2 page is shown.
- (i) Push the EDIT right line select key (1R) and then push the DISPLAY left line select key (1L).  
 Result:  
 1 The DISPLAY CONFIG page is shown.
- (j) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 255 - DISPLAY CONFIGURATION

Step	Line select key to be pushed	Content	Item number to be entered	Result
1	3L	COLORS	1	STANDARD

(3) LOADING THE FUEL CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).  
 Result:  
 1 The CONFIG 1/2 page is shown.
- (b) Push the FMS CONFIG left line select key (2L).  
 Result:  
 1 The FMS CONFIG 1/2 page is shown.
- (c) Push the FUEL left line select key (2L).

Result:

- 1 The FUEL OPT 1/1 page is shown.
- (d) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 256 - FMS CONFIG - FUEL CONFIGURATION

Step	Content	Value/Item number to be entered	Result
1	FUEL MODE	1	ENABLED
2	DISPLAY UNITS	1(2)	LBS(KGS)
3	# OF ENGINES	2	2
4	EMPTY WEIGHT	<u>[1]</u>	<u>[2]</u>
5	FUEL FLOW TYPE	6	DIGITAL

[1] The values to be entered must be in according to aircraft model as follows:

(EMB145ER, EU and EP) 11800 KGS (26400 LBS).  
 (EMB145LR and LU) 12400 KGS (27300 LBS).  
 (EMB145MP) 12400 KGS (27300 LBS).  
 (EMB135ER) 11500 KGS (25300 LBS).  
 (EMB135LR) 11500 KGS (25300 LBS).  
 (EMB135KE and KL) 11800 KGS (26400 LBS).

[2] The result corresponds to the value inserted in footnote .

(4) LOADING THE APU CONFIGURATION DATA:

- (a) Push the APU right line select key (3R).

Result:

- 1 The APU OPT 1/1 page is shown.

- (b) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 257 - APU CONFIGURATION

Step	Line select key to be pushed	Content	Value/Item number to be entered	Result
1	1L	FUEL FLOW 1	0	0 LBS (0 KGS)
2	2L	FUEL FLOW 2	95 (43)	95 LBS (43 KGS)
3	3L	FUEL FLOW 3	145 (66)	145 LBS (66 KGS)
4	4L	FUEL FLOW 4	160 (73)	160 LBS (73 KGS)
5	2R	APU SOURCE	3	DIGITAL

(5) LOADING THE FUEL FLOW SCALING CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The FUEL OPT 1/1 page is shown.

- (b) Push the FF SCALE right line select key (2R).

Result:

- 1 The FF SCALING 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 258 - FUEL FLOW SCALING CONFIGURATION

Step	Line select key to be pushed	Content	Value to be entered	Result
1	5L	MIN FF	300	300 PPH

(6) LOADING THE PERFORMANCE CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R) twice.

Result:

1 The FMS CONFIG 1/2 page is shown.

- (b) Push the PERF left line select key (3L).

Result:

1 The PERF OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 259 - PERFORMANCE CONFIGURATION

Step	Line select key to be pushed	Content	Value/Item number to be entered	Result
1	1L	BASIC	1	ENABLED
2	2L	MANUAL	2	DISABLED
3	3L	ADVANCED	2	DISABLED
4	4L	CLIMB GRAD	500	500 FT/NM

(7) LOADING THE VNAV CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).

Result:

1 The FMS CONFIG 1/2 page is shown.

- (b) Push the VNAV left line select key (4L).

Result:

1 The VNAV OPT 1/2 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 260 - VNAV CONFIGURATION 1

Step	Line select key to be pushed	Content	Value/Item number to be entered	Result
1	1L	VNAV MODE	1	ENABLED
2	3L	FPA LIMIT	90	9.0°

**Table 260 - VNAV CONFIGURATION 1 (Continued)**

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
3	4L	VDEV STOW	2	DISABLED
4	5L	VDEV OUTPUT	1	NORMAL
5	3R	TEMP COMP	2	DISABLED

- (d) Push the NEXT control key.

Result:

1 The VNAV OPT 2/2 page is shown.

- (e) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

**Table 261 - VNAV CONFIGURATION 2**

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	3L	VDEV	1	ENRT+APPR
2	4L	PITCH	1	ENRT+APPR
3	5L	VERT SPD	1	ENRT+APPR
4	3R	ANALOG DEV	1	DISABLED
5	4R	PITCH	4	DISABLED

**(8) LOADING THE APPROACH CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).

Result:

1 The FMS CONFIG 1/2 page is shown.

- (b) Push the APPR left line select key (5L).

Result:

1 The APPR OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

**Table 262 - APPROACH CONFIGURATION**

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
1	1L	APPR MODE	1	ENABLED
2	2L	REMOTE TUNE	1	ENABLED
3	3L	REMOTE ARM	2	DISABLED
4	4L	FPA LIMIT	90	9.0°
5	3R	ROLL GAINS	3	3 x

**(9) LOADING THE APPROACH TYPES CONFIGURATION DATA:**

- (a) Push the APPR TYPES left line select key (5L).

Result:

- 1 The APPR TYPES 1/2 page is shown.

**NOTE:** GPS, NDB, VOR, RNV and VFR, are not configurable on the APPROACH TYPES pages.

- (b) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 263 - APPROACH TYPES CONFIGURATION

Step	Line select key to be pushed	Content	Item number to be entered	Result
1	2R	ILS	2	ADVISORY
2	3R	LOC	1	ENABLED
3	4R	BC	1	ENABLED

**(10) LOADING THE EFIS CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

- 1 The FMS CONFIG 1/2 page is shown.

- (b) Push the EFIS right line select key (2R).

Result:

- 1 The EFIS OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

Table 264 - EFIS CONFIGURATION

Step	Line select key to be pushed	Content	Item number to be entered	Result
1	1L	TYPE	1	429 ADV

**(11) LOADING THE PL-4 CONFIGURATION DATA:**

- (a) Push the PL-4 OPTS left line select key (4L).

Result:

- 1 The PL-4 OPTS 1/1 page is shown.

- (b) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in the table below. After each step, push the ENTER control key to complete entry of data.

**Table 265 - PL-4 CONFIGURATION**

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	CHP	2	N/A
2	2L	RADAR TYPE	3	N/A
3	3L	PL-4 REF	3	N/A
4	4L	ADF DIAG	3	N/A
5	5L	FUEL MAX	1	N/A
6	2R	TCAS	3	N/A
7	3R	MLS	3	N/A
8	4R	RAD ALT	3	N/A

**(12) LOADING THE NAV CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.  
 Result:  
1 The FMS CONFIG 1/2 page is shown.
- (b) Push the NAV right line select key (3R).  
 Result:  
1 The NAV OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

**Table 266 - NAV CONFIGURATION**

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
1	5L	A/C TYPE	1	FIXED WING
2	1L	A/C ROLL STR	2	DISABLED
3	3L	AT OR BELOW	20000	20000 FT
4	3R	BANK LIMIT	270	27.0°
5	4L	AT OR ABOVE	32000	32000 FT
6	4R	BANK LIMIT	150	15.0°
7	2R	HDG SEL	2	ENRT ONLY

**(13) LOADING THE TUNE CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).  
 Result:  
1 The FMS CONFIG 1/2 page is shown.
- (b) Push the TUNE right line select key (4R).  
 Result:  
1 The TUNE OPT 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 267 - TUNE CONFIGURATION

Step	Content	Value to be entered	Result
1	# COMS	2	2
2	# NAVS	2	2
3	# ADFS	[1]	[2]
4	# ATC	1	1

[1] The values to be entered should be in according to ADF(s) installed, as follows:  
 (For aircraft with one ADF installed) - "1".  
 (For aircraft with two ADFs installed) - "2".

[2] The result corresponds to the value inserted in footnote .

**(14) LOADING THE DISCRETES - DISCRETE IN CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

1 The CONFIG 1/2 page is shown.

- (b) Push the DISCRETES left line select key (3L).

Result:

1 The DISC OPT 1/1 page is shown.

- (c) Push the DISCRETE IN left line select key (2L).

Result:

1 The DISC IN 1/2 page is shown.

**NOTE:** If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page. To go back, push the RETURN line select key.

- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 268 - DISCRETES - DISCRETE IN CONFIGURATION 1

Step	Line select key to be pushed	Content	Item number to be entered	Result
1	1L	DISC IN 1	5	FREQ MNGT
2	2L	DISC IN 2	1	NONE
3	3L	DISC IN 3	1	NONE
4	4L	DISC IN 4	1	NONE
5	5L	DISC IN 5	1	NONE
6	2R	DISC IN 6	1	NONE
7	3R	DISC IN 7	1	NONE
8	4R	DISC IN 8	1	NONE

- (e) Push the NEXT control key.

Result:

- 1 The DISC IN 2/2 page is shown.
- (f) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 269 - DISCRETES - DISCRETE IN CONFIGURATION 2

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	DISC IN 9	1	NONE
2	2L	DISC IN 10 28V	1	NONE
3	3L	DISC IN 11	1	NONE

**(15) LOADING THE DISCRETES - DISCRETE OUT CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

- 1 The DISC OPT 1/1 page is shown.

- (b) Push the DISCRETE OUT left line select key (3L).

Result:

- 1 The DISC OUT 1/2 page is shown.

**NOTE:** If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page.

- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 270 - DISCRETES - DISCRETE OUT CONFIGURATION 1

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	DISC OUT 1	2	HDG ANN
2	2L	DISC OUT 2	1	NONE
3	3L	DISC OUT 3	1	NONE
4	4L	DISC OUT 4	1	NONE
5	5L	DISC OUT 5	1	NONE
6	2R	DISC OUT 6	1	NONE
7	3R	DISC OUT 7	1	NONE
8	4R	DISC OUT 8	1	NONE

- (d) Push the NEXT control key.

Result:

- 1 The DISC OUT 2/2 page is shown.

**CAUTION:** DISC OUT 9 MUST BE A 28 V DC/OPEN TYPE SIGNAL (FMS VAL).

- (e) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 271 - DISCRETES - DISCRETE OUT CONFIGURATION 2

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	DISC OUT 9 28V	8	FMS VAL

**(16) LOADING THE ARINC - RECEIVE PORTS CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.

Result:

1 The CONFIG 1/2 page is shown.

- (b) Push the ARINC left line select key (4L).

Result:

1 The ARINC OPT 1/1 page is shown.

- (c) Push the RECEIVE left line select key (1L).

Result:

1 The ARINC RCV 1/1 page is shown.

**NOTE:** If the option is not visible in the first Option List Page, push the NEXT control key to view the next option page.

- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 272 - ARINC - RECEIVE PORTS CONFIGURATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	PORT 0	3	LSGPS1 B1
2	2L	PORT 1	1	NO SENSOR
3	3L	PORT 2	[1]	[1]
4	4L	PORT 3	3	NO SENSOR
5	5L	PORT 4	1	NO SENSOR
6	2R	PORT 5	3	IC 600 R-04
7	3R	PORT 6	4	IC 600 L -04
8	4R	PORT 7	4	NO SENSOR

[1] Option;Result:  
(Aircraft without UNILINK) 1;NO SENSOR  
(Aircraft with UNILINK) 3;UNILINK

**(17) LOADING THE ARINC - TRANSMIT CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).

Result:

1 The ARINC OPT 1/1 page is shown.

- (b) Push the TRANSMIT left line select key (2L).  
 Result:  
1 The ARINC XMIT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 273 - ARINC - RECEIVE PORTS CONFIGURATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered FMS1</b>	<b>Result</b>
1	1L	PORT 0	5	IC 600 - 01
2	2L	PORT 1	2	429 HS
3	3L	PORT 2	2	429 LS
4	4L	PORT 3	3	429 XFILL

**(18) LOADING THE ARINC - 561 TRANSMIT CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).  
 Result:  
1 The ARINC OPT 1/1 page is shown.
- (b) Push the 561 XMIT left line select key (3L).  
 Result:  
1 The A561 XMIT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 274 - ARINC - 561 TRANSMIT CONFIGURATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	561 BUS	1	LRN DATA
2	2L	DTG FORMAT	1	ARINC 561

**(19) LOADING THE CSDB CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R) twice.  
 Result:  
1 The CONFIG 1/2 page is shown.
- (b) Push the CSDB left line select key (5L).  
 Result:  
1 The CSDB OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 275 - CSDB CONFIGURATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	RCVR 1	3	VOR
2	2L	RCVR 2	1	NO SENSOR
3	3L	RCVR 3	4	DUAL DME
4	4L	RCVR 4	1	NO SENSOR
5	2R	XMITTER 1	1	NONE
6	3R	XMITTER 2	2	TUNE

(20) LOADING THE ANALOG CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).  
Result:  
1 The CONFIG 1/2 page is shown.
- (b) Push the ANALOG right line select key (2R).  
Result:  
1 The ANALOG OPT 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 276 - ANALOG CONFIGURATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	WPT BRG SIG	2	WPT BRG
2	2L	WPT BRG FMT	1	NONE
3	3L	OFFSET	2	+0
4	4L	RELATIVE TO	1	NOSE
5	5L	PITCH CMD	1	NONE
6	2R	DESIRED TRK	1	NONE
7	3R	RELATIVE TO	1	NOSE
8	4R	ANALOG ATT	1	NONE

(21) LOADING THE AIR DATA CONFIGURATION DATA:

- (a) Push the RETURN right line select key (5R).  
Result:  
1 The CONFIG 1/2 page is shown.
- (b) Push the AIR DATA left line select key (4L).  
Result:  
1 The AIR DATA 1/1 page is shown.

- (c) On the CDU, push the line select keys and through the keyboard enter the value or the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 277 - AIR DATA CONFIGURATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Value/Item number to be entered</b>	<b>Result</b>
1	1L	ALT DISPLAY	3	BOTH
2	2L	A/S DISPLAY	2	TAS AND IAS
3	3L	MINIMUM TAS PRES	60	60 KTS
4	4L	SAT FORMAT	2	DIGITAL
5	5L	MACH FORMAT	2	DIGITAL
6	2R	BARO ALT FMT	2	DIGITAL
7	3R	PRES ALT FORMAT	2	DIGITAL
8	4R	A/S FORMAT	1	DIGITAL

**(22) LOADING THE AIRCRAFT IDENTIFICATION DATA:**

- (a) Push the RETURN right line select key (5R).  
 Result:  
1 The CONFIG 1/2 page is shown.
- (b) Push the NEXT control key.  
 Result:  
1 The CONFIG 2/2 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the value to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 278 - CONFIG 2/2 - AIRCRAFT IDENTIFICATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Value to be entered</b>	<b>Result</b>
1	1L	SCN	603±X	603.X
2	2L	AIRCRAFT IDENTIFICATION	ERJ145 (ERJ135)	ERJ145 (ERJ135)

**(23) LOADING THE PILOT DATA, FLIGHT PLAN AND LOG, AND STRUT SWITCH CONFIGURATION DATA:**

- (a) Push the PREV control key.  
 Result:  
1 The CONFIG 1/2 page is shown.
- (b) Push the FMS CONFIG left line select key (2L).  
 Result:  
1 The FMS CONFIG 1/2 page is shown.
- (c) Push the NEXT control key.

Result:

- 1 The FMS CONFIG 2/2 page is shown.
- (d) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 279 - PILOT DATA, FLIGHT PLAN AND LOG, AND STRUT SWITCH CONFIGURATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	3L	POS EST DISP	1	Q
2	4L	MAX STBY TIME	[1]	[1]
3	3L	PLT DB & PWRUP	1(2)	RETAINED (Cleared)
4	2R	STRUT SW	2	DIGITAL
5	3R	FLIGHT LOG	2	DISABLED

[1] Option;Result:  
 1;DISABLED  
 2;2 HOURS  
 3;4 HOURS  
 4;6 HOURS  
 5;8 HOURS

**(24) LOADING THE CROSSFILL CONFIGURATION DATA:**

- (a) Push the XFILL left line select key (1L).

Result:

- 1 The XFILL OPT 1/1 page is shown.

- (b) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 280 - CROSSFILL OPTIONS CONFIGURATION

<b>Step</b>	<b>Line select key to be pushed</b>	<b>Content</b>	<b>Item number to be entered</b>	<b>Result</b>
1	1L	MASTER	1	ENABLED
2	2L	INIT	1	ENABLED
3	3L	FUEL	1	ENABLED
4	4L	FPL	1	ENABLED
5	3R	XFILL MODE	1	PULL
6	4R	TUNE PRESETS	1	ENABLED

**(25) LOADING THE CABIN DISPLAY CONFIGURATION DATA:**

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The FMS CONFIG 2/2 page is shown.

- (b) Push the CABIN DISP left line select key (2L).

Result:

- 1 The CABIN DISP 1/1 page is shown.
- (c) On the CDU, push the line select keys and through the keyboard enter the item number to get the expected result as shown in table below. After each step, push the ENTER control key to complete entry of data.

Table 281 - CABIN DISPLAY CONFIGURATION

Step	Line select key to be pushed	Content	Item number to be entered	Result
1	1L	CABIN DISP	2	DISABLED

(26) SAVING THE NEW CONFIGURATION:

- (a) Push the RETURN right line select key (5R).

Result:

- 1 The FMS CONFIG 2/2 page is shown.

- (b) Push the STORE right line select key (1R) twice to save the new configuration.

Result:

- 1 The display shows the UPDATING CONFIGURATION message, the system will reset itself and initiate power on self tests.

- (c) After self test, push the PWR/DIM key, then the OFF right line select key (5R), then the CONFIRM/OFF right line select key (1R).

Result:

- 1 The system is turned off.

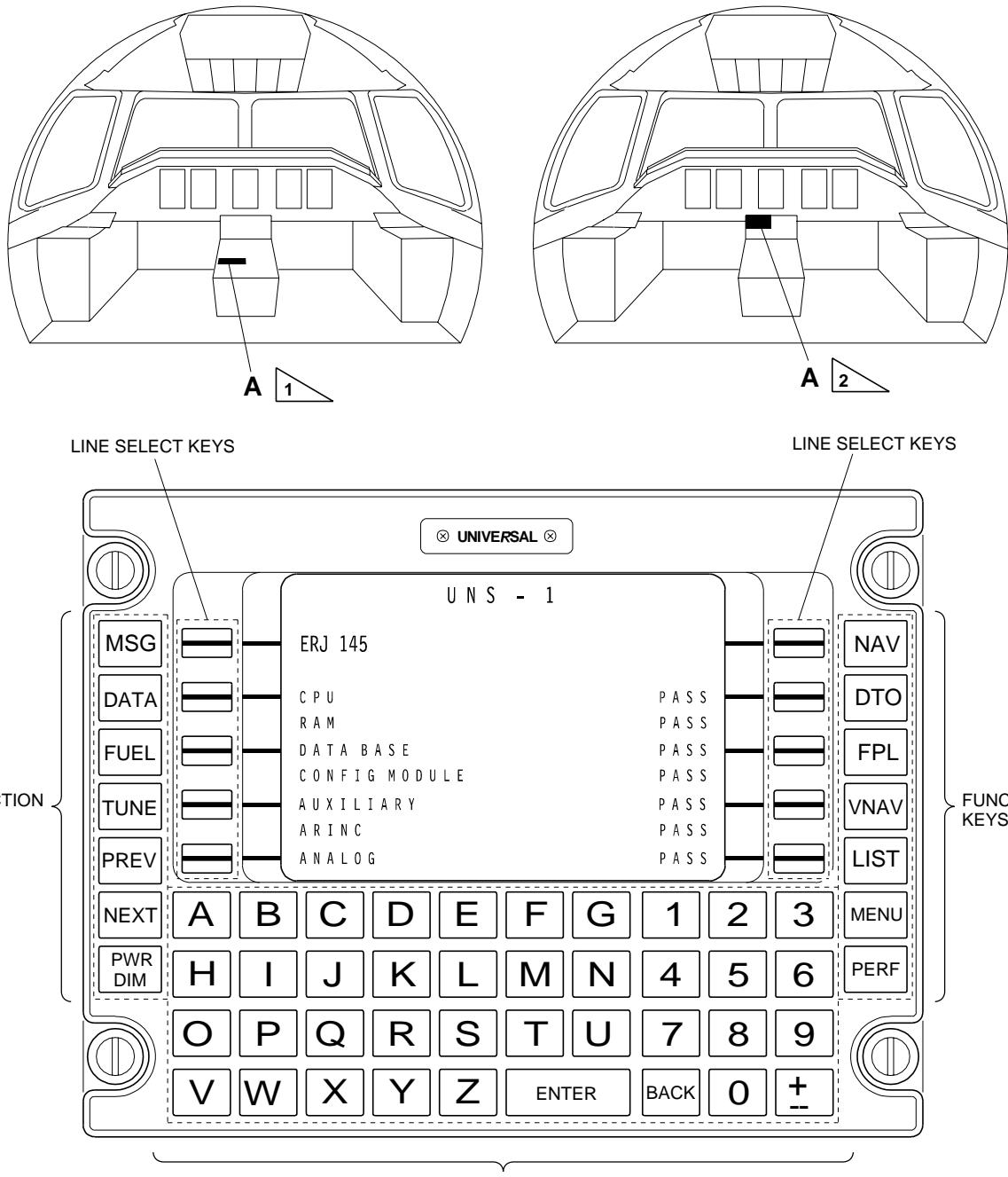
K. Follow-on

SUBTASK 842-003-A

- (1) Do the Single FMS Operational test ( [AMM TASK 34-62-00-700-802-A/500](#)).

- (2) Deenergize the aircraft ( [AMM TASK 20-40-01-860-801-A/200](#)).

**EFFECTIVITY: AIRCRAFT WITH FMS UNIVERSAL**  
 Single FMS Control Display Unit  
 Figure 203

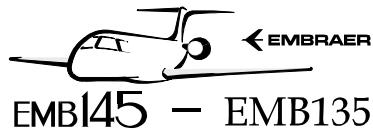


1 AIRCRAFT WITH FMS CDU INSTALLED ON CONTROL PEDESTAL AFT PANEL.



2 AIRCRAFT WITH FMS CDU INSTALLED ON CONTROL PEDESTAL FORWARD PANEL.

145AMM340304.MCE B



# AIRCRAFT MAINTENANCE MANUAL

EFFECTIVITY: AIRCRAFT WITH FMS UNIVERSAL  
Single FMS Control and Displays  
Figure 204

POS INIT 1 / 1		M MSG
INITIAL POS		DATE
ID	-----	04 - MAR - 98
S	23 13.1	UTC
W	045 53.4	17 : 49 : 34
STANDARD / EXTENDED		
NAV DATABASE EXPIRES		
26 - MAR - 98		
← ACCEPT FMC VER		A 12500 603.0

INIT 1/1 PAGE

CONFIG 1 / 2	
DISPLAY	EDIT →
FMS CONFIG	ANALOG →
DISCRETES	
ARINC	AIR DATA →
CSDB	RETURN →

CONFIG 1/2 PAGE

145AMM340307.MCE