

TRANSPORT CANADA

MMEL SUPPLEMENT

REVISION 04

TO

BAe (HS) 748

MASTER MINIMUM EQUIPMENT LIST

W. R. Jupp
Chief, Aircraft Certification Flight Test
for Minister of Transport

Apr. 04, 2003

Revision: 04

TRANSPORT CANADA

MMEL SUPPLEMENT

REVISION 04

TO

BAe (HS) 748

MASTER MINIMUM EQUIPMENT LIST

Original signed by
W. R. Jupp
Chief, Aircraft Certification Flight Test
for Minister of Transport

Apr. 04, 2003
Revision: 04

**TRANSPORT CANADA
Master Minimum Equipment List
Supplement
BAE (HS) 748**

**Page: I
Revision: 04
Apr. 04, 2003**

List of Effective Pages

Title Page

List of Effective Pages	I	Revision 04	Apr. 04, 2003
	II	Revision 04	Apr. 04, 2003
Log of Revisions	III	Revision 04	Apr. 04, 2003
Reasons for Changes	IV	Revision 04	Apr. 04, 2003
Introduction	V	Revision 04	Apr. 04, 2003
Repair Intervals (Categorization)	VI	Revision 04	Apr. 04, 2003
Repair Interval Category	VII	Revision 04	Apr. 04, 2003
	VIII	Revision 04	Apr. 04, 2003
Pages	21-1	Original	Nov. 23, 1993
	22-1	Revision 03	Nov. 29, 2002
	23-1	Revision 03	Nov. 29, 2002
	23-2	Revision 03	Nov. 29, 2002
	23-3	Revision 03	Nov. 29, 2002
	23-4	Revision 03	Nov. 29, 2002
	23-5	Revision 03	Nov. 29, 2002
	23-6	Revision 03	Nov. 29, 2002
	24-1	Revision 03	Nov. 29, 2002
	25-1	Revision 03	Nov. 29, 2002
	25-2	Revision 04	Apr. 04, 2003
	25-3	Revision 03	Nov. 29, 2002
	25-4	Revision 03	Nov. 29, 2002
	25-5	Revision 03	Nov. 29, 2002
	25-6	Revision 03	Nov. 29, 2002
	25-7	Revision 03	Nov. 29, 2002
	25-8	Revision 03	Nov. 29, 2002
	25-9	Revision 04	Apr. 04, 2003

**TRANSPORT CANADA
Master Minimum Equipment List
Supplement
BAE (HS) 748**

**Page: II
Revision: 04
Apr. 04, 2003**

List of Effective Pages (cont'd)

Pages	26-1	Revision 03	Nov. 29, 2002
	26-2	Revision 03	Nov. 29, 2002
	26-3	Revision 03	Nov. 29, 2002
	26-4	Revision 03	Nov. 29, 2002
	26-5	Revision 03	Nov. 29, 2002
	27-1	Revision 03	Nov. 29, 2002
	27-2	Revision 03	Nov. 29, 2002
	28-1	Revision 03	Nov. 29, 2002
	30-1	Revision 02	Apr. 28, 1998
	31-1	Revision 03	Nov. 29, 2002
	32-1	Revision 02	Apr. 28, 1998
	33-1	Revision 03	Nov. 29, 2002
	33-2	Revision 04	Apr. 04, 2003
	33-3	Revision 03	Nov. 29, 2002
	34-1	Revision 03	Nov. 29, 2002
	34-2	Revision 03	Nov. 29, 2002
	34-3	Revision 03	Nov. 29, 2002
	34-4	Revision 03	Nov. 29, 2002
	34-5	Revision 03	Nov. 29, 2002
	34-6	Revision 03	Nov. 29, 2002
	35-1	Revision 03	Nov. 29, 2002
	35-2	Revision 03	Nov. 29, 2002
	38-1	Revision 04	Apr. 04, 2003
	49-1	Revision 03	Nov. 29, 2002
	52-1	Revision 04	Apr. 04, 2003
	82-1	Revision 02	Apr. 28, 1998

TRANSPORT CANADA
Master Minimum Equipment List
Supplement
BAE (HS) 748

Page: III
Revision: 04
Apr. 04, 2003

Log of Revisions

Revision No.	Date	Page Number	Initials
Original	Nov. 23, 1993	All	
01	Jan. 07, 1994	I, II, III, VII, 52-1	
02	Apr. 28, 1998	I, II, III, IV, V, VI, VII, VIII, 23-1, 23-2, 25-1, 25-2, 25-4, 26-1, 26-2, 27-1, 30-1, 32-1, 34-1, 73-1, 82-1	
03	Nov. 29, 2002	I, II, III, IV, V, VI, VII, VIII, IX, X, XI, 22-1, 23-1, 23-2, 23-3, 23-4, 23-5, 23-6, 24-1, 25-1, 25-2, 25-3, 25-4, 25-5, 25-6, 25-7, 25-8, 25-9, 26-1, 26-2, 26-3, 26-4, 26-5, 27-1, 27-2, 28-1, 31-1, 33-1, 33-2, 33-3, 34-1, 34-2, 34-3, 34-4, 34-5, 34-6, 35-1, 35-2, 38-1, 49-1	
04	Mar. 06	I, II, III, IV, V, VI, VII, VIII, 25-2, 25-9, 33-2, 38-1, 52-1	

**TRANSPORT CANADA
Master Minimum Equipment List
Supplement
BAE (HS) 748**

**Page: IV
Revision: 04
Apr. 04, 2003**

Reasons for Changes

- | | |
|-------|---|
| 25-5 | Flight Deck Observer's Seat and Harness (Jump Seat) – revised item adding repair interval, number installed and number required for dispatch in 2 nd option. |
| 25-23 | Emergency Locator Transmitter– revised item adding repair interval. |
| 33-7 | Wing Leading Edge Ice Inspection Lights – revised item adding repair interval, number installed and number required for dispatch in 3 rd option. |
| 38-1 | Potable Water Systems – revised item adding repair interval, number installed and number required for dispatch in both options. |
| 52-3 | Cockpit Door– revised item as a result of the 911 incidents and installation of the Northeast Engineering & Development Ltd door. |

**TRANSPORT CANADA
Master Minimum Equipment List
Supplement
BAE (HS) 748**

**Page: V
Revision: 04
Apr. 04, 2003**

Introduction

This Transport Canada MMEL Supplement constitutes a mandatory change to the CAA (UK) Approved MMEL for the British Aerospace (HS) 748.

This MMEL Supplement must be used in conjunction with the CAA Approved MMEL (Original, Aug. 09, 1991 or later applicable revision).

The information contained herein supersedes the existing CAA MMEL only for those items listed herein. For items not contained in this Supplement, consult the CAA MMEL.

Operating and/or maintenance procedures referred to in this Supplement are the same as those supporting the CAA MMEL unless otherwise indicated. Procedures required by the Transport Canada MMEL Supplement and not indicated in the CAA Approved MMEL must be provided by the operator.

The CAA MMEL has entries where the "Remarks or Exceptions" column states "as required by Air Navigation Legislation". Unless such an entry is superseded by an item in this Supplement, all references should be made to the applicable Canadian regulation.

This MMEL Supplement uses the standard four column format as referenced in the Transport Canada MMEL/MEL Policy and Procedures Manual (TP 9155). The same definitions and symbols as the CAA MMEL are also used. Items which have no MMEL relief (i.e. relief withdrawn) are not categorized.

Comments and inquiries should be directed to:

Transport Canada
Chief, Flight Test – AARDC
Aircraft Certification
330 Sparks Street
Tower C, 3rd Floor
Ottawa, Ontario
K1A 0N8

Repair Intervals (Categorization)

Maximum times between the deferral of an inoperative item and its repair must be specified in the MMEL. However, the CAA (UK) MMEL does not provide the repair interval categorization. Thus, this MMEL Supplement provides the categorization of each inoperative item as determined according to the time intervals specified below:

Category A. Items in this category shall be repaired within the time interval specified in the remarks column of the MMEL.

Category B. Items in this category shall be repaired within three (3) consecutive calendar days (72 hours), excluding the day of discovery.

Category C. Items in this category shall be repaired within ten (10) consecutive calendar days (240 hours), excluding the day of discovery.

Category D. Items in this category shall be repaired within one hundred and twenty (120) consecutive calendar days (2880 hours), excluding the day of discovery. To be considered for placement in the D category, an item must be of an optional nature, which an operator may, at his discretion, deactivate, remove from or install on an aircraft. To be approved for the D category, the item must meet the following criteria:

- a) the absence of the item does not affect crew workload;
- b) the pilots do not rely on the function of that item on a routine or continuous basis;
- c) the pilots' training, subsequent habit patterns and procedures do not rely on the use of that item.

NOTES:

1. All statements in the CAA MMEL such as "The aircraft may continue the flight or series of flights, but shall not depart an airport where repairs or replacements can be made" shall be disregarded and the assigned categorization shall apply.

Paragraph ten of the CAA MMEL preamble is not applicable in Canada in that in order to grant relief for optional equipment it must be listed in the MMEL and assigned a repair interval category.

Unless superseded by an entry in this TC MMEL Supplement, all items in the CAA approved BAe HS 748 MMEL are Category C, with the following exceptions:

TRANSPORT CANADA
Master Minimum Equipment List
Supplement
BAE (HS) 748

Page: VII
Revision: 04
Apr. 04, 2003

Repair Interval Category (Cont'd)

ATA Number	CATEGORY B
23.3	Supernumerary Crew Seat (Jump Seat) Interphone
23.4	Audio Selector Panels
25.4	Crew Member Harness Inertia Reel
29.2	Hydraulic Pump Flow Failure Warning Lights
30.2	Wing and Empennage De-icing System
33.9	Landing Light Retraction Systems
33.14	Central Warning Panel Dimming
33.15	Legend Dimming
34.3	Standby Horizon
52.3	Lockable Flight Deck Door
56.1	Windscreens
56.2	Direct Vision (DV) Windows
56.3	DV Window Opening Mechanism
56.4	Sliding Windows
56.5	Eyebrow Windows
56.6	Passenger Compartment Windows
73.2	Fuel Flowmeters
79.1	Engine Oil Temperature Gauges
79.2	Oil Pressure Gauges
79.3	Engine Low Oil Pressure Warning Lights

TRANSPORT CANADA
Master Minimum Equipment List
Supplement
BAE (HS) 748

Page: VIII
Revision: 04
Apr. 04, 2003

Repair Interval Category (Cont'd)

ATA Number	CATEGORY D
21.16	Cabin Temperature Gauge
23.14	Hand Held Microphones
24.17	External Power System
25.2	Passenger Seat Recline Mechanism
25.10	Lifejackets
25.12	Overwater Survival Equipment
33.5	Passenger Call Lights
33.6	Passenger Reading Lights
34.8	VHF Navigation Systems

TRANSPORT CANADA
Master Minimum Equipment List
Supplement

Aircraft: BAe (HS) 748				Revision No. Original Date: Nov. 23, 1993		Page: 21-1 of 1	
System & Sequence Numbers		1.	2.	Number Installed			
				3.	Number Required for Dispatch		
					4.	Remarks or Exceptions	
21	AIR CONDITIONING						
13	AC Fan	C	1	0	(O)	May be inoperative. NOTE: Do not attempt to obtain cooling on the ground since this could result in overheating the cold air unit. Leave the spill valves open or ensure that the TCV is not set to demand cooling.	
18	Janitrol Heater Installation (if installed)	D	-	0	(M)	May be inoperative.	



TRANSPORT CANADA
Master Minimum Equipment List
Supplement

Aircraft: BAe (HS) 748			Revision No. 03 Date: Nov. 29, 2002		Page: 22-1 of 1
System & Sequence Numbers			1.	2.	Number Installed
			3.	Number Required for Dispatch	
			4.	Remarks or Exceptions	
22 AUTO FLIGHT					
1	Autopilot System	B	1	0	May be inoperative except where enroute operations require its use.
8	Control Wheel Disengage Switches	C	2	1	One may be inoperative provided:
		B	2	0	a) Autopilot is not used below initial approach altitude, and b) Pilot flying has the operative disconnect.
9	Autopilot Disconnected Warning System	B	1	0	May be inoperative provided autopilot is not used.

TRANSPORT CANADA
Master Minimum Equipment List
Supplement

Aircraft: BAe (HS) 748			Revision No. 03 Date: Nov. 29, 2002		Page: 23-1 of 6	
System & Sequence Numbers			1.	2.	Number Installed	
					3.	Number Required for Dispatch
					4.	Remarks or Exceptions
23 COMMUNICATIONS						
1	Passenger Address (PA) System	B	1	0	(O)	May be inoperative provided:
						a) Alternate normal and emergency procedures are established and used, and
						b) Flight deck/cabin Interphone (two way) with associated calls (e.g. chimes) is operative.
		A	1	0	(O)	May be inoperative for non-passenger carrying operations provided:
						a) Crew members are the only occupants of the aircraft, and
						b) Alternate procedures are established and used.
1)	All Cargo Operations	D	1	0		May be inoperative provided all crew members are on the flight deck.
2	Cabin Attendant's Interphone System					
1)	Passenger Configuration	B	-	1	(O)	May be inoperative provided:
						a) An operative flight deck/cabin interphone (two way) is at an operative flight attendant seat, and
						b) Alternate communications procedures between the affected flight attendant station(s) are established and used.



Documents

Document Sharing Hub

TRANSPORT CANADA
Master Minimum Equipment List
Supplement

Aircraft: BAe (HS) 748		Revision No. 03 Date: Nov. 29, 2002		Page: 23-2 of 6	
System & Sequence Numbers		1.	2.	Number Installed	
				3.	Number Required for Dispatch
				4.	Remarks or Exceptions
23 COMMUNICATIONS					
2 Cabin Attendant's Interphone System (cont'd)					
1) Passenger Configuration (cont'd)	A	1	0	(O)	May be inoperative for non-passenger carrying operations for one flight day provided:
				a)	Crew members are the only occupants of the aircraft, and
				b)	Alternate procedures are established and used.
2) All Cargo Operations	D	1	0		May be inoperative provided all crew members are on the flight deck.
6 Flight Deck Speakers	C	2	0		May be inoperative provided:
				a)	Procedures are not dependent on their use,
				b)	Headsets are installed and used by each person on flight deck duty,
				c)	All aural alerts, messages and other communication which are normally routed through the flight deck speakers must be audible through the headsets, and
				d)	A spare headset must be readily available for crew use.

TRANSPORT CANADA
Master Minimum Equipment List
Supplement

Aircraft: BAe (HS) 748		Revision No. 03 Date: Nov. 29, 2002		Page: 23-3 of 6	
System & Sequence Numbers		1.	2.	3. Number Installed	4. Number Required for Dispatch
					5. Remarks or Exceptions
23 COMMUNICATIONS					
7 Communications Transmitters and Receivers		D	-	2	Any in excess of those required by regulation and not powered by a standby or emergency bus and not required for emergency procedures may be inoperative.
		B	2	1	No 2 VHF transceiver may be inoperative provided HF is installed and operative.
12 Crew Intercommunication Systems					
a) Flight Deck to Flight Deck			-	-	Must be operative for each person on flight deck duty.
b) Flight Deck to Ground		C	1	0	(O) May be inoperative provided alternate procedures are established and used.
		D	1	0	May be inoperative provided procedures are not dependent on its use.
13 Headsets (Including Boom Microphones)					
a) Headset Function		C	-	-	Headset function may be inoperative on any boom set provided alternate headset is installed, operative and used.
If CVR required to be capable of recording boom microphone.					
b) Mike Function		A	-	0	May be inoperative for three flight days provided: a) FDR is operative, and b) Hand mike is installed, operative and used.

TRANSPORT CANADA
Master Minimum Equipment List
Supplement

Aircraft: BAe (HS) 748		Revision No. 03 Date: Nov. 29, 2002		Page: 23-4 of 6	
System & Sequence Numbers		1.	2.	Number Installed	
				3.	Number Required for Dispatch
				4.	Remarks or Exceptions
23 COMMUNICATIONS					
13 Headsets (Including Boom Microphones (cont'd) If CVR not required to be capable of recording boom microphone.					
c) Mike Function		D	-	0	May be inoperative provided hand mike is installed, operative and used.
15 Cockpit Voice Recorder		A	1	0	May be inoperative provided: a) Flight Data Recorder is operative, and b) Repairs are made within three flight days.
16 Handsets					
a) Passenger Configuration					
i) Flight Deck Handset		C	1	0	(O) May be inoperative provided: a) Flight deck to cabin communication operates normally, and b) Alternate procedures are established and used.
		D	1	0	May be inoperative provided routine procedures do not require its use.

TRANSPORT CANADA
Master Minimum Equipment List
Supplement

Aircraft: BAe (HS) 748				Revision No. 03 Date: Nov. 29, 2002		Page: 23-5 of 6	
System & Sequence Numbers		1.	2.	Number Installed			
				3.	Number Required for Dispatch		
					4.	Remarks or Exceptions	
23	COMMUNICATIONS						
16	Handsets (cont'd)						
	a) Passenger Configuration (cont'd)						
	ii) Cabin Handset(s)	B	-	-	(O)	May be inoperative provided: a) Fifty percent of cabin handsets operate normally, b) Operative handset(s) is located at an operative flight attendant seat, and c) Alternate communications procedures between the affected flight attendant station(s) are established and used. NOTE: Any station that operates normally may be used.	
	b) Cargo/Combi Configuration						
	i) Flight Deck Handset	D	1	0			
	ii) Cargo Compartment Handsets	D	-	0		Handsets located in the cargo compartment may be inoperative or inaccessible.	
17	Pre-recorded Announcement (Passenger Briefing System)	C	1	0	(O)	May be inoperative provided alternate procedures are established and used.	
	a) All Cargo Operations	D	1	0		May be inoperative provided all crew members are on the flight deck.	