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DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
WASHINGTON, D. C.

Revision: 5 a  
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M A S T E R   M I N I M U M   E Q U I P M E N T   L I S T

BEECH MODELS 100/A100/B100

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FEDERAL AVIATION ADMINISTRATION  
MASTER MINIMUM EQUIPMENT LIST  
BEECH MODELS 100/A100/B100

Page: I  
Revision: 5 a  
Date: 08/26/1999

Table of Contents



--	--	--	--

FEDERAL AVIATION ADMINISTRATION  
 MASTER MINIMUM EQUIPMENT LIST  
 BEECH MODELS 100/A100/B100

Page: III  
 Revision: 5 a  
 Date: 08/26/1999

Control Page

SYSTEM	PAGE	REV NO.	CURRENT DATE
Cover Page	-	5 a	08/26/1999
Table of Contents	I	5 a	08/26/1999
Log of Revisions	II	5 a	08/26/1999
Control Page	III	5 a	08/26/1999
	IV	5 a	08/26/1999
Highlights of Change	V	5 a	08/26/1999
Definitions	VI	6	01/31/1995
	VII	6	01/31/1995
	VIII	6	01/31/1995
	IX	6	01/31/1995
	X	6	01/31/1995
	XI	6	01/31/1995
	XII	6	01/31/1995
	XIII	6	01/31/1995
Preamble	XIV	2	06/14/1989
	XV	2	06/14/1989
Guidelines for (O) & (M) Procedures	XVI	5	10/20/1994
	XVII	5 a	08/26/1999
21	21-1	5	10/20/1994
	21-2	5	10/20/1994
22	22-1	5	10/20/1994
23	23-1	5 a	08/26/1999
	23-2	5 a	08/26/1999

Be100r5a. txt

24	24-1	5	10/20/1994
25	25-1	5 a	08/26/1999
	25-2	5 a	08/26/1999
26	26-1	5 a	08/26/1999
27	27-1	5	10/20/1994
28	28-1	5 a	08/26/1999
30	30-1	5	10/20/1994
	30-2	5	10/20/1994
31	31-1	5	10/20/1994
32	32-1	5	10/20/1994
33	33-1	5 a	08/26/1999
	33-2	5 a	08/26/1999
34	34-1	5 a	08/26/1999
	34-2	5 a	08/26/1999
	34-3	5	10/20/1994
	34-4	5 a	08/26/1999
	34-5	5 a	08/26/1999

FEDERAL AVIATION ADMINISTRATION  
 MASTER MINIMUM EQUIPMENT LIST  
 BEECH MODELS 100/A100/B100

Page: IV  
 Revision: 5 a  
 Date: 08/26/1999

Control Page

SYSTEM	PAGE	REV NO.	CURRENT DATE
35	35-1	5	10/20/1994
52	52-1	5	10/20/1994
61	61-1	5 a	08/26/1999

FEDERAL AVIATION ADMINISTRATION  
 MASTER MINIMUM EQUIPMENT LIST  
 BEECH MODELS 100/A100/B100

Page: V  
 Revision: 5 a  
 Date: 08/26/1999

Highlights of Change

- ATA 23-1 Changed relief for the communications equipment in accordance with policy letter 52.
- ATA 23-2 Changed repair interval of the cargo configuration.
- ATA 25-2 Changed relief for passenger seats in accordance with policy letter 79 designated as Global Change 55.
- ATA 25-5 Added relief for First Aid Kits in accordance with policy letter 73 designated as Global Change 52.
- ATA 25-6 Added relief for Flotation Devices.

- ATA 28-2 Added relief for Fuel Boost Pumps for the BE-100
- ATA 33-2 Changed relief for Cockpit lighting in accordance with policy letter 77 designated as Global Change 63.
- ATA 34-7 Changed relief for ATC transponders in accordance with policy letter 76 designated as Global Change 47.
- ATA 34-21 Changed relief for TCAS II in accordance with policy letter 32 designated as Global Change 74.
- ATA 34-22 Changed relief for TCAS I in accordance with policy letter 32 designated as Global Change 74.
- ATA 34-23 Changed for GPWS in accordance with policy letter 54 designated as Global Change 65.
- ATA 34-24 Added relief for a Flight Profile Advisory System.
- ATA 61-4 Added a reference to Pratt & Whitney engines only in column 1 for clarification between P&W and Garrett powered aircraft.

FEDERAL AVIATION ADMINISTRATION

Page: VI

MASTER MINIMUM EQUIPMENT LIST

Revision: 6

Date: 01/31/1995

BEECH MODELS 100/A100/B100

#### Definitions

##### 1. System Definitions.

System numbers are based on the Air Transport Association (ATA) Specification Number 100 and items are numbered sequentially.

- a. "Item" (Column 1) means the equipment, system, component, or function listed in the "Item" column.
- b. "Number Installed" (Column 2) is the number (quantity) of items normally installed in the aircraft. This number represents the aircraft configuration considered in developing this MMEL. Should the number be a variable (e.g., passenger cabin items) a number is not required.
- c. "Number Required for Dispatch" (Column 3) is the minimum number (quantity) of items required for operation provided the conditions specified in Column 4 are met.

NOTE: Where the MMEL shows a variable number required for dispatch, the MEL must reflect the actual number required for

dispatch or an alternate means of configuration control approved by the Administrator.

- d. "Remarks or Exceptions" (Column 4) in this column includes a statement either prohibiting or permitting operation with a specific number of items inoperative, provisos (conditions and limitations) for such operation, and appropriate notes.
- e. A vertical bar (change bar) in the margin indicates a change, addition or deletion in the adjacent text for the current revision of that page only. The change bar is dropped at the next revision of that page.

2. "Airplane/Rotorcraft Flight Manual" (AFM/RFM) is the document required for type certification and approved by the responsible FAA Aircraft Certification Office. The FAA approved AFM/RFM for the specific aircraft is listed on the applicable Type

FEDERAL AVIATION ADMINISTRATION

Page: VII

MASTER MINIMUM EQUIPMENT LIST

Revision: 6

Date: 01/31/1995

BEECH MODELS 100/A100/B100

#### Definitions

Certificate Data Sheet.

3. "As required by FAR" means that the listed item is subject to certain provisions (restrictive or permissive) expressed in the Federal Aviation Regulations operating rules. The number of items required by the FAR must be operative. When the listed item is not required by FAR it may be inoperative for time specified by repair category.

4. Each inoperative item must be placarded to inform and remind the crewmembers and maintenance personnel of the equipment condition.

NOTE: To the extent practical, placards should be located adjacent to the control or indicator for the item affected; however, unless otherwise specified, placard wording and location will be determined by the operator.

5. "-" symbol in Column 2 and/or Column 3 indicates a variable number (quantity) of the item installed.

6. "Deleted" in the remarks column after a sequence item indicates that the item was previously listed but is now required to be operative if installed in the aircraft.

7. "ER" refers to extended range operations of a two-engine airplane which has a type design approval for ER operations and complies with the provisions of Advisory Circular 120-42A.

8. "Federal Aviation Regulations" (FAR) means the applicable portions of the Federal Aviation Act and Federal Aviation

Regulations.

9. "Flight Day" means a 24 hour period (from midnight to midnight) either Universal Coordinated Time (UCT) or local time, as established by the operator, during which at least one flight is initiated for the affected aircraft.

10. "Icing Conditions" means an atmospheric environment that may cause ice to form on the aircraft or in the engine(s).

11. Alphabetical symbol in Column 4 indicates a proviso (condition or limitation) that must be complied with for

FEDERAL AVIATION ADMINISTRATION

Page: VIII

MASTER MINIMUM EQUIPMENT LIST

Revision: 6

Date: 01/31/1995

BEECH MODELS 100/A100/B100

Definitions

operation with the listed item inoperative.

12. "Inoperative" means a system and/or component malfunction to the extent that it does not accomplish its intended purpose and/or is not consistently functioning normally within its approved operating limit(s) or tolerance(s).

13. "Notes:" in Column 4 provides additional information for crewmember or maintenance consideration. Notes are used to identify applicable material which is intended to assist with compliance, but do not relieve the operator of the responsibility for compliance with all applicable requirements. Notes are not a part of the provisos.

14. Inoperative components of an inoperative system: Inoperative items which are components of a system which is inoperative are usually considered components directly associated with and having no other function than to support that system. (Warning/caution systems associated with the inoperative system must be operative unless relief is specifically authorized per the MMEL).

15. "(M)" symbol indicates a requirement for a specific maintenance procedure which must be accomplished prior to operation with the listed item inoperative. Normally these procedures are accomplished by maintenance personnel; however, other personnel may be qualified and authorized to perform certain functions. Procedures requiring specialized knowledge or skill, or requiring the use of tools or test equipment should be accomplished by maintenance personnel. The satisfactory accomplishment of all maintenance procedures, regardless of who performs them, is the responsibility of the operator. Appropriate procedures are required to be published as part of the operator's manual or MEL.

16. "(O)" symbol indicates a requirement for a specific operations procedure which must be accomplished in planning for and/or operating with the listed item inoperative. Normally these procedures are accomplished by the flight crew; however,

other personnel may be qualified and authorized to perform certain functions. The satisfactory accomplishment of all procedures, regardless of who performs them, is the responsibility of the operator. Appropriate procedures are

FEDERAL AVIATION ADMINISTRATION

Page: IX

MASTER MINIMUM EQUIPMENT LIST

Revision: 6

Date: 01/31/1995

BEECH MODELS 100/A100/B100

### Definitions

required to be published as a part of the operator's manual or MEL.

NOTE: The (M) and (O) symbols are required in the operator's MEL unless otherwise authorized by the Administrator.

17. "Deactivated" and "Secured" means that the specified component must be put into an acceptable condition for safe flight. An acceptable method of securing or deactivating will be established by the operator.

18. "Visual Flight Rules" (VFR) is as defined in FAR Part 91. This precludes a pilot from filing an Instrument Flight Rules (IFR) flight plan.

19. "Visual Meteorological Conditions" (VMC) means the atmospheric environment is such that would allow a flight to proceed under the visual flight rules applicable to the flight. This does not preclude operating under Instrument Flight Rules.

20. "Visible Moisture" means an atmospheric environment containing water in any form that can be seen in natural or artificial light; for example, clouds, fog, rain, sleet, hail, or snow.

21. "Passenger Convenience Items" means those items related to passenger convenience, comfort or entertainment such as, but not limited to, galley equipment, movie equipment, ash trays, stereo equipment, overhead reading lamps, etc.

22. Repair Intervals: All users of an MEL approved under FAR 121, 125, 129 and 135 must effect repairs of inoperative systems or components, deferred in accordance with the MEL, at or prior to the repair times established by the following letter designators:

Category A. Items in this category shall be repaired within the time interval specified in the remarks column of the operator's approved MEL.

Category B. Items in this category shall be repaired within three (3) consecutive calendar days (72 hours), excluding the day the malfunction was recorded in the aircraft maintenance

FEDERAL AVIATION ADMINISTRATION

Page: X

Revision: 6

Defi ni ti ons

record/logbook. For example, if it were recorded at 10 a.m. on January 26th, the three day interval would begin at midnight the 26th and end at midnight the 29th.

Category C. Items in this category shall be repaired within ten (10) consecutive calendar days (240 hours), excluding the day the malfunction was recorded in the aircraft maintenance record/logbook. For example, if it were recorded at 10 a.m. on January 26th, the 10 day interval would begin at midnight the 26th and end at midnight February 5th.

Category D. Items in this category shall be repaired within one hundred and twenty (120) consecutive calendar days (2880 hours), excluding the day the malfunction was recorded in the aircraft maintenance log and/or record.

The letter designators are inserted adjacent to Column 2.

23. Electronic fault alerting system - General

New generation aircraft display system fault indications to the flight crew by use of computerized display systems. Each aircraft manufacturer has incorporated individual design philosophies in determining the data that would be represented. The following are customized definitions (specific to each manufacturer) to help determine the level of messages affecting the aircraft's dispatch status. When preparing the MEL document, operators are to select the proper Definition No. 23 for their aircraft, if appropriate.

a. BOEING (B-757/767, B-747-400, B-777)

Boeing airplanes equipped with Engine Indicating and Crew Alerting Systems (EICAS), provide different priority levels of system messages (WARNING, CAUTION, ADVISORY, STATUS and MAINTENANCE). Any messages that affects airplane dispatch status will be displayed at a STATUS message level or higher. The absence of an EICAS STATUS or higher level (WARNING, CAUTION, ADVISORY) indicates that the system/component is operating within its approved operating limits or tolerances.

System conditions that result only in a maintenance level message, i.e. no correlation with a higher level EICAS message,

Defi ni ti ons

do not affect dispatch and do not require action other than as addressed within an operators standard maintenance program.

b. DOUGLAS (MD-11)

Some Douglas aircraft are equipped with an alerting function which is a subsystem within the Electronic Instrument System (EIS). The alerting function provides various levels of system condition alerts (WARNING, CAUTION, ADVISORY, MAINTENANCE and STATUS).

Alerts that affect aircraft dispatch will include WARNING, CAUTION, STATUS or MAINTENANCE level. MAINTENANCE alerts are displayed on the status page of the EIS display panel under the maintenance heading.

A MAINTENANCE alert on the EIS indicates the presence of a system fault which can be identified by the Central Fault Display System (CFDS) interrogation. The systems are designed to be fault tolerant, however, for any MAINTENANCE alert, the MEL must be verified for dispatch purposes.

c. AIRBUS (A-300-600, A-310, A-320/319/321, A-330, A-340)

Airbus aircraft equipped with Electronic Centralized Aircraft Monitoring (ECAM) provide different levels of system condition messages (WARNING, CAUTION, STATUS, and ADVISORY). A-320/319/321, A-330, and A-340 also provide MAINTENANCE status messages.

Any message that effects airplane dispatchability will normally be at the WARNING, CAUTION or STATUS level. MAINTENANCE messages (A-320/319/321, A-330, and A-340 only) are also indicated on ECAM Status Page below the white Maintenance label.

A MAINTENANCE status (Class II) message on ECAM indicates the presence of a system fault which can be identified by CFDS (A-320/319/321) or CMS (A-330/A-340) interrogation. The systems are designed to be fault tolerant, however for any MAINTENANCE status (Class II) message, the A-320/319/321 MEL must be verified for dispatch capability. For the A-330 and A-340, MAINTENANCE status messages do not affect dispatch.

d. FOKKER (FK-100)

FEDERAL AVIATION ADMINISTRATION

Page: XII

MASTER MINIMUM EQUIPMENT LIST

Revision: 6

Date: 01/31/1995

BEECH MODELS 100/A100/B100

Definitions

Fokker aircraft are equipped with Multi Function Display System (MFDS) which provides electronic message referring to the different priority levels of system information (WARNING (red), CAUTION (amber), AWARENESS (cyan) AND STATUS (white). Any messages that affects aircraft dispatch will be at the WARNING, CAUTION or AWARENESS level. In these cases the MEL must be verified for dispatch capability and maintenance may be

required.

System conditions that only require maintenance are not presented on the flight deck. These maintenance indications/messages may be presented on the Maintenance & Test Panel (MAP) or the Centralized Fault Display Unit (CFDU) and by dedicated Built In Test Evaluation (BITE) of systems.

24. "Administrative control item" means an item listed by the operator in the MEL for tracking and informational purposes. It may be added to an operator's MEL by approval of the Principal Operations Inspector provided no relief is granted, or provided conditions and limitations are contained in an approved document (i.e. Structural Repair Manual, airworthiness directive, etc.). If relief other than that granted by an approved document is sought for an administrative control item, a request must be submitted to the Administrator. If the request results in review and approval by the FOEB, the item becomes an MMEL item rather than an administrative control item.

25. "\*\*\*\*" symbol in Column 1 indicates an item which is not required by regulation but which may have been installed on some models of aircraft covered by this MMEL. This item may be included on the operator's MEL after the approving office has determined that the item has been installed on one or more of the operator's aircraft. The symbol, however, shall not be carried forward into the operator's MEL. It should be noted that neither this policy nor the use of this symbol provide authority to install or remove an item from an aircraft.

26. "Excess Items" means those items that have been installed that are redundant to the requirements of the FARs.

27. "Day of Discovery" is the calendar day an equipment/instrument malfunction was recorded in the aircraft

FEDERAL AVIATION ADMINISTRATION

Page: XIII

MASTER MINIMUM EQUIPMENT LIST

Revision: 6

Date: 01/31/1995

BEECH MODELS 100/A100/B100

Definitions

maintenance log and or record. This day is excluded from the calendar days or flight days specified in the MMEL for the repair of an inoperative item of equipment. This provision is applicable to all MMEL items, i.e., categories "A, B, C, and D."

FEDERAL AVIATION ADMINISTRATION      Page: XIV  
MASTER MINIMUM EQUIPMENT LIST      Revision: 2  
Date: 06/14/1989  
BEECH MODELS 100/A100/B100

Preamble  
(Effective 6/14/89)

The following is applicable for authorized certificate holders operating under Federal Aviation Regulations (FAR) Parts 121, 125, 129, 135: The FAR require that all equipment installed on an aircraft in compliance with the Airworthiness Standards and the Operating Rules must be operative. However, the Rules also permit the publication of a Minimum Equipment List (MEL) where compliance with certain equipment requirements is not necessary in the interests of safety under all operating conditions. Experience has shown that with the various levels of redundancy designed into aircraft, operation of every system or installed component may not be necessary when the remaining operative equipment can provide an acceptable level of safety. A Master Minimum Equipment List (MMEL) is developed by the FAA, with participation by the aviation industry, to improve aircraft utilization and thereby provide more convenient and economic air transportation for the public. The FAA approved MMEL includes those items of equipment related to airworthiness and operating regulations and other items of equipment which the Administrator finds may be inoperative and yet maintain an acceptable level of safety by appropriate conditions and limitations; it does not contain obviously required items such as wings, flaps, and rudders. The MMEL is the basis for development of individual operator MELs which take into consideration the operator's particular aircraft equipment configuration and operational conditions. Operator MELs, for administrative control, may include items not contained in the MMEL; however, relief for administrative control items must be approved by the Administrator. An operator's MEL may differ in format from the MMEL, but cannot be less restrictive than the MMEL.

The individual operator's MEL, when approved and authorized, permits operation of the aircraft with inoperative equipment.

Equipment not required by the operation being conducted and equipment in excess of FAR requirements are included in the MEL with appropriate conditions and limitations. The MEL must not deviate from the Aircraft Flight Manual Limitations, Emergency Procedures or with Airworthiness Directives. It is important to remember that all equipment related to the airworthiness and the operating regulations of the aircraft not listed on the MMEL must be operative.

FEDERAL AVIATION ADMINISTRATION      Page: XV  
MASTER MINIMUM EQUIPMENT LIST      Revision: 2  
Date: 06/14/1989  
BEECH MODELS 100/A100/B100

Preamble  
(Effective 6/14/89)

Suitable conditions and limitations in the form of placards, maintenance procedures, crew operating procedures and other restrictions as necessary are specified in the MEL to ensure that an acceptable level of safety is maintained.

The MEL is intended to permit operation with inoperative items of equipment for a period of time until repairs can be accomplished. It is important that repairs be accomplished at the earliest opportunity. In order to maintain an acceptable level of safety and reliability the MMEL establishes limitations on the duration of and conditions for operation with inoperative equipment. The MEL provides for release of the aircraft for flight with inoperative equipment. When an item of equipment is discovered to be inoperative, it is reported by making an entry in the Aircraft Maintenance Record/Logbook as prescribed by FAR. The item is then either repaired or may be deferred per the MEL or other approved means acceptable to the Administrator prior to further operation. MEL conditions and limitations, do not relieve the operator from determining that the aircraft is in condition for safe operation with items of equipment inoperative.

When these requirements are met, an Airworthiness Release, Aircraft Maintenance Record/Logbook entry, or other approved documentation is issued as prescribed by FAR. Such documentation is required prior to operation with any item of equipment inoperative.

Operators are responsible for exercising the necessary operational control to ensure that an acceptable level of safety is maintained. When operating with multiple inoperative items, the interrelationships between those items and the effect on aircraft operation and crew workload will be considered.

Operators are to establish a controlled and sound repair program including the parts, personnel, facilities, procedures, and schedules to ensure timely repair.

WHEN USING THE MEL, COMPLIANCE WITH THE STATED INTENT OF THE PREAMBLE, DEFINITIONS, AND THE CONDITIONS AND LIMITATIONS SPECIFIED IN THE MEL IS REQUIRED.

FEDERAL AVIATION ADMINISTRATION      Page XVI  
MASTER MINIMUM EQUIPMENT LIST      Revision: 5  
Date: 10/20/1994  
BEECH MODELS 100/A100/B100

Guidelines for (O) & (M) Procedures

The FOEB has identified a need for certain procedures to provide an adequate level of safety while providing relief for the following items. These procedures must be established by the operator. The following guidelines are to help establish these required procedures:

- ATA 21-2 Maintenance procedure to ensure the dump valve is secure in the open position.
- ATA 21-7 Maintenance procedure to determine if bleed air shutoff valve is in the closed position.
- ATA 22-1 Maintenance procedure to ensure no electrical or mechanical fault exists that will have an adverse effect on any flight control function.
- ATA 22-2 Maintenance procedure to ensure no electrical or mechanical fault exists that will have an adverse effect on any flight control function.
- ATA 23-2 Operations procedure to specify how passengers will be briefed.
- ATA 28-3 Operations procedure to ensure the quantity and balance of fuel on board meets the regulatory requirements for the intended flight.
- ATA 31-2 Operations procedure to record flight time.
- ATA 32-1 Maintenance procedure to determine cause of malfunction and take appropriate action.
- ATA 32-2 Operations procedure to prevent movement of aircraft when stopped or parked.
- ATA 33-5 Operations procedure to appropriately brief the passengers.

## BEECH MODELS 100/A100/B100

## Gui del i nes for (O) &amp; (M) Procedures

- ATA 34-21 Maintenance procedure to deactivate and secure the system.
- ATA 34-21-1 Operations procedure to ensure TA and RA display is visible to the non-flying pilot and audio functions are operative on flying pilot side.
- ATA 34-21-2 Operations procedure to ensure non-flying pilot monitors pilot's display.  
Operations procedure to ensure TA only mode is selected and all TA functions/elements are operative.
- ATA 34-21-3 Operations procedure to ensure all RA display and audio functions are operative.
- ATA 34-22 Maintenance procedure to secure and deactivate the system.
- ATA 34-23 Operations procedure to ensure alternate procedures are established and used.
- ATA 34-23-1 Operations procedure to ensure alternatives are established and used for the appropriate inoperative mode(s).
- ATA 34-23-4 Operations procedure to ensure alternatives are established and used for the appropriate inoperative advisory callouts.
- ATA 34-23-5 Operations procedure to ensure alternative is established and used for the windshear mode.

U. S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

MASTER MINIMUM EQUIPMENT LIST

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5  
DATE: 10/20/1994

PAGE:  
21-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
-----					
21	AIR CONDITIONING				
1.	Pressurization Controller	C	1	0	May be inoperative for unpressurized flight.
2.	Safety Valve	C	1	0	(M)May be inoperative provided: a) Airplane remains unpressurized and b) The dump valve is blocked open.
3.	Outflow Valve	C	1	0	May be inoperative provided: a) Airplane remains unpressurized and b) The dump valve is open.
4.	Altitude Warning	C	1	0	May be inoperative for unpressurized flight.
		C	1	0	OR May be inoperative for pressurized flight at or below 10,000 ft. MSL.
5.	Cabin Rate of Climb Indicator	C	1	0	May be inoperative for pressurized flight provided Cabin Altitude/Differential Pressure Indicator is operative.
		C	1	0	OR May be inoperative for unpressurized flight.
6.	Cabin Altitude/Differential Pressure Indicator	C	1	0	May be inoperative for unpressurized flight.
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U. S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

MASTER MINIMUM EQUIPMENT LIST

AIRCRAFT:

BEECH MODELS 100/A100/B100

REVISION NO: 5

DATE: 10/20/1994

PAGE:

21-2

SYSTEM &	1.	2. NUMBER INSTALLED
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SEQUENCE NUMBERS	ITEM			3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
21	AIR CONDITIONING				
7.	Bleed Air Shutoff Valves	C	2	1	(M)One may be inoperative in closed position for pressurized flight.
8.	Automatic Temperature Controller	C	1	0	May be inoperative provided manual control system is operative.
9.	Manual Temperature Controller	C	1	0	May be inoperative provided automatic temperature controller is operative.
10.	Electric Heat	C	1	0	
11.	Ventilation Blower	C	1	0	May be inoperative provided: a) Electric heat is not used on the ground and b) Defog air is not required.
12.	Air Conditioner	C	1	0	

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5

PAGE:

DATE: 10/20/1994

22-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS

22	AUTO FLIGHT				
1.	Autopilot System	C	1	0	(M)As required by FAR.
2.	Yaw Damper	C	1	0	(M)

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a  
DATE: 08/26/1999

PAGE:  
23-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
23	COMMUNICATIONS				
1.	Communications	D	-	-	Any in excess of those required by

				FAR may be inoperative.
Systems (VHF, HF, UHF)				
2.	Passenger Address System			
	1) Passenger Configuration	B	1	0 (0) May be inoperative provided alternate normal and emergency procedures and/or operating restrictions are established and used.
	2) Cargo Configuration	D	1	0
3.	Cockpit Speakers	C	2	0 May be inoperative provided two operative headsets are available to the flight crew.
4.	Audio Amplifiers	C	2	0 May be inoperative provided two operative headsets are available to the flight crew.
5.	Static Discharge Wicks	C	-	- One wick may be missing or broken from: 1) Each wing (includes aileron) 2) Each side of horizontal stabilizer and 3) Vertical stabilizer
6.	Cockpit Voice Recorder (CVR) System ***	A	1	0 May be inoperative provided repairs are made within three flight days.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT: BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

23-2

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3. NUMBER REQUIRED FOR DISPATCH		
23	COMMUNICATIONS				
7.	Boom Microphones				
	1) Cockpit Voice	A	-	0	May be inoperative provided

Be100r5a.txt

\*\*\* Recorder Equipped to Record Boom Microphone per FAR 135.151(d)

repairs are made within three flight days.

\*\*\* 2) Cockpit Voice Recorder Not Equipped to Record Boom Microphone D - 0

8. Passenger Call System \*\*\* C 1 0

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5

PAGE:

DATE: 10/20/1994

24-1

SYSTEM & SEQUENCE NUMBERS	1. ITEM	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
24	ELECTRICAL POWER			
1.	Batteries (B100)	B 2	1	Right battery may be inoperative for day VFR operations provided: a) GPU is used for starting and b) The inoperative battery is disconnected at the battery

terminal.

Note: See AFM for starting procedure.

2.	DC Loadmeters							
3.	DC Generator Warning Lights (Annunciators)	B	2	1				One may be inoperative provided corresponding loadmeter is monitored.
4.	Inverters	B	2	1				One may be inoperative for VFR day operations.
5.	Inverter Warning Light	B	1	0				May be inoperative provided both inverters are operative.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT: BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

25-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3. NUMBER REQUIRED FOR DISPATCH		
25	EQUIPMENT/FURNISHINGS				
1.	Cockpit Shoulder Harness	B	2	1	Right side may be inoperative provided seat is not occupied.
2.	Passenger Seat(s)	D	-	-	May be inoperative provided: a) Seat does not block an Emergency Exit, b) Seat does not restrict any passenger from access to the main aircraft aisle and

Be100r5a.txt

				c) Affected seat(s) are blocked and placarded "DO NOT OCCUPY".
				NOTE 1: A seat with an inoperative seat belt or shoulder harness is considered to be inoperative.
				NOTE 2: Affected seat(s) may include the seat(s) behind and/or adjacent outboard seats.
1) Recline Mechanism	D	-	-	May be inoperative and seat occupied provided seat is secured in the up-right position.
3. ELT	C	1	0	May be inoperative for published scheduled flights in scheduled air carrier service. Must be operative for all other flights.
				OR
	C	1	0	As required by FAR.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

25-2

SYSTEM & SEQUENCE NUMBERS	1. ITEM	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
25	EQUIPMENT/FURNISHINGS			
4.	Passenger Convenience Item(s)	-	-	Passenger convenience items, as expressed in this MMEL are those related to passenger convenience comfort or entertainment such as but not limited to, galley equipment, movie equipment, ash trays, stereo equipment, overhead reading lamps, etc. Items addressed elsewhere in this document shall not be included. (M) and (O) procedure may be

Be100r5a.txt

5. First Aid Kits ***	D	-	-	required and included in the air carrier's appropriate document.
6. Flotation Devices ***	D	-	-	Any in excess of those required by FAR may be incomplete or missing provided required distribution is maintained.
				Any in excess of those required by FAR may be inoperative or missing provided required distribution is maintained.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

26-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3. NUMBER REQUIRED FOR DISPATCH		
26	FIRE PROTECTION				
1.	Portable Fire Extinguisher	D	-	-	Any in excess of those required by FAR may be inoperative or missing provided: a) Inoperative fire extinguisher is tagged inoperative, removed from the installed location and placed out of sight so it can not be mistaken for a functional unit and b) Required distribution is maintained.
2.	Engine Fire	C	2	0	

\*\*\* Extinguisher Systems

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5  
DATE: 10/20/1994

PAGE:  
27-1

SYSTEM & SEQUENCE NUMBERS	1. ITEM	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
27	FLIGHT CONTROLS			
1.	Trim Tab Position Indicators (Rudder and Aileron)	C 2	0	May be inoperative provided: a) Tab is visually checked for full range of operation, b) Tab operation is not restricted and c) Tab is positioned to neutral prior to each departure and neutral position is verified by visual inspection.
2.	Flap Position Indicator	C 1	0	May be inoperative provided: a) Flaps are visually checked for full travel and flap operation is not restricted and b) Flaps are visually checked for proper setting prior to

each departure.

3. Speed Control  
\*\*\* Indicator

C

1

0

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:

BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

28-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3. NUMBER REQUIRED FOR DISPATCH		
-----					
28	FUEL				
1.	Standby Fuel Boost Pumps	C	2	1	One may be inoperative provided AFM limitations are observed.
2.	Primary and Secondary Fuel Boost Pumps (BE-100)	C	4	2	One may be inoperative on each side.
3.	Jet Transfer Pumps	C	2	0	May be inoperative provided auxiliary tanks do not contain fuel.
4.	Fuel Quantity Indicators	C	2	1	(0)One may be inoperative provided a reliable means is established to determine that fuel quantity on board meets the regulatory requirements for the flight.
5.	Crossfeed Light	C	1	0	May be inoperative provided proper operation of crossfeed system is

Be100r5a.txt

checked prior to starting.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5

PAGE:

DATE: 10/20/1994

30-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3.	NUMBER REQUIRED FOR DISPATCH	
30	ICE AND RAIN PROTECTION				
1.	Surface Deice System (Wing, Vertical, and Horizontal Stabilizer)	C	1	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.
2.	Engine Anti-ice Lights (B100 only)	C	2	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.
3.	Windshield Heaters	C	2	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.
4.	Windshield Wipers	C	2	0	May be inoperative provided flight is not conducted in precipitation within 5 nautical miles of the airport of takeoff or intended landing.
5.	Pitot Heaters	B	2	0	Left heated pitot tube must be operative for IFR passenger

Be100r5a.txt

6.	Propeller Deice System (Automatic)	C	1	0	carrying and for flight in known or forecast icing conditions.  Two heated pitot tubes are required for these conditions if a second airspeed indicator is installed and operative.
		C	1	0	May be inoperative provided manual propeller deice system is operative.  OR May be inoperative provided aircraft is not operated in known or forecast icing conditions.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5

PAGE:

DATE: 10/20/1994

30-2

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3.	NUMBER REQUIRED FOR DISPATCH	
30	ICE AND RAIN PROTECTION				
7.	Propeller Deice Systems (Manual)	C	1	0	May be inoperative provided automatic propeller deice system is operative.  OR May be inoperative provided aircraft is not operated in known or forecast icing conditions.
		C	1	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.
8.	Heated Fuel Vents	C	2	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.
9.	Stall Warning Heater	C	1	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5

PAGE:

DATE: 10/20/1994

31-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3. NUMBER REQUIRED FOR DISPATCH		
31	INDICATING/RECORDING SYSTEMS				
1.	Clocks with sweep second hand or electric digital clocks.	C	-	0	May be inoperative for VFR.
2.	Flight Hour Recorder	C	1	0	(0)
3. ***	Flight Data Recorder (FDR)	B	1	0	May be inoperative providing cockpit voice recorder is operative.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5

PAGE:

DATE: 10/20/1994

32-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3.	NUMBER REQUIRED FOR DISPATCH	
32 LANDING GEAR					
1.	Brake Deice System (Except B100)	C	1	0	(M) NOTE: See AFM for limitations.
2.	Parking Brake	C	1	0	(O)
3.	Landing Gear Position Lights	B	3	2	One of the three lights may be inoperative provided both gear handle lights are operative.
4.	Landing Gear Handle Lights	C	2	1	One bulb may be inoperative provided all gear position lights are operative.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a  
DATE: 08/26/1999

PAGE:  
33-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
33 LIGHTS					
1.	Cabin Lights	C	-	-	May be inoperative provided lighting configuration is acceptable to the flight crew.
2.	Cockpit/Flight Deck/Flight Compartment and Instrument	C	1	0	Individual lights may be inoperative provided remaining lights are: a) Sufficient to clearly illuminate all required instruments, controls, and other devices for which it is provided, b) Positioned so that direct rays are shielded from flight crewmembers eyes and c) Lighting configuration and intensity is acceptable to the flight crew.
3.	Landing Lights	C	2	0	May be inoperative for day operations.  OR
		C	2	1	One may be inoperative for night operations provided taxi light is operative.
4.	Position Lights	C	3	0	May be inoperative for day operations.
5.	Passenger Notice System (Fasten Seat Belt/No Smoking)	C	1	0	(0)May be inoperative provided appropriate verbal briefings are given to the passengers.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

33-2

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3.	NUMBER REQUIRED FOR DISPATCH	
33 LIGHTS					
6.	Anti -collision Beacon Light System	C	1	0	May be inoperative for day operations.
7.	Strobe Light System	C	1	0	
8.	Taxi Light	C	1	0	May be inoperative for day operations.
		C	1	0	OR May be inoperative for night operations provided both landing lights are operative.
9.	Wing ice Lights	C	2	0	Two Pilots: One light required for night flight in known or forecast icing conditions.  One Pilot: Left light required for night flight in known or forecast icing conditions.
10.	Recognition Lights	C	2	0	
11.	Logo Light System	C	1	0	
12.	Master caution Lights	C	2	1	One may be inoperative.
13.	Baggage compartment Lights	C	-	0	

## U. S. DEPARTMENT OF TRANSPORTATION

## MASTER MINIMUM EQUIPMENT LIST

## FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

34-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
34	NAVIGATION					
1.	Altimeters, adjustable for barometric pressure	B	2	1	1	May be inoperative on right side provided a second in command is not required for the flight.  NOTE: Where a servoed electric altimeter is installed, a functioning pneumatic indicator is required for the flight.
2.	Airspeed Indicators	B	2	1	1	May be inoperative on right side provided a second in command is not required for the flight.  NOTE: Where a servoed electric airspeed is installed, a functioning pneumatic indicator is required.
3.	Gyroscopic Pitch and Bank Indicator Systems	B	2	1	1	May be inoperative on right side provided a second in command is not required for the flight.
4.	Gyroscopic Rate of Turn/Slip Skid Indicators	B	2	1	1	May be inoperative on right side.
		B	2	0	0	May be inoperative on left side except for IFR, passenger carrying VFR over-the-top, and passenger carrying VFR night flights.
5.	Gyroscopic Directional Indicator Systems	B	2	1	1	May be inoperative on right side provided a second in command is not required for the flight.
6.	Vertical Speed Indicators	B	2	1	1	May be inoperative on right side.
		B	2	0	0	May be inoperative on left side except for IFR passenger carrying operations.

## U. S. DEPARTMENT OF TRANSPORTATION

## MASTER MINIMUM EQUIPMENT LIST

## FEDERAL AVIATION ADMINISTRATION

## AIRCRAFT:

BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

34-2

SYSTEM & SEQUENCE NUMBERS	1. ITEM	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
34	NAVIGATION			
7.	ATC Transponders and Automatic Altitude Reporting Systems	D -	-	Any in excess of those required by FAR may be inoperative.
8.	Navigation Equipment (VOR/ILS, Loran, RNAV, VLF/Omega, INS, GPS, Doppler)	C 1	0	As required by FAR.
9.	Weather Radar/Thunderstorm Detection Equipment	C 1	0	As required by FAR.
10.	Marker Beacon	C 1	0	May be inoperative provided approach procedure does not require its use.
11.	Flight Director	C 1	0	
12.	Radar Altimeter	C 1	0	
13.	Altitude Encoder			DELETED Combined with ATA 34-7.
14.	DME	C 1	0	As required by FAR.
15.	RMI	C 1	0	As required by FAR.
16.	ADF	C 1	0	As required by FAR.
17.	Altitude Alserter	B 1	0	
18.	Speed Control	C 1	0	
19.	Standby Attitude *** Indicator	C 1	0	May be inoperative provided AHRS, EFIS or Laser Gyro are not installed.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5

PAGE:

DATE: 10/20/1994

34-3

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3.	NUMBER REQUIRED FOR DISPATCH	
34	NAVIGATION				
20.	Nonstabilized Magnetic Compass	B	1	0	<p>May be inoperative provided any combination of three gyro or INS (IRU) stabilized compass systems are operative.</p> <p>OR</p> <p>May be inoperative provided:</p> <ul style="list-style-type: none"> <li>a) Any combination of two gyro or INS stabilized compass systems are operative and</li> <li>b) Aircraft is operated with dual independent navigation capability and under positive radar control by ATC on the en route portion of the flight.</li> </ul> <p>OR</p> <p>May be inoperative for flights that are entirely within areas of magnetic unreliability provided at least two stabilized directional gyro systems are installed, operative, and used in conjunction with approved free gyro navigation techniques.</p>
		B	1	0	

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

34-4

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3.	NUMBER REQUIRED FOR DISPATCH	
34	NAVIGATION				
21. ***	Traffic Alert and Collision Avoidance System (TCAS II)	C	-	0	(M)May be inoperative provided the system is deactivated and secured.
***	1) Combined Traffic Alert (TA) and Resolution Advisory (RA) Dual Display	C	2	1	(O)One may be inoperative on the non-flying pilot side provided TA and RA elements and audio functions are operative on flying pilot side.
	2) Resolution Advisory (RA) Display System(s)	C	2	1	(O)One may be inoperative on non-flying pilot side.
		C	-	0	(O)May be inoperative provided: a) All Traffic Alert (TA) display elements and voice command audio functions are operative and b) TA only mode is selected by the crew.
	3) TA Display Systems(s)	C	-	0	(O)May be inoperative provided all installed RA display and audio functions are operative.
22. ***	Traffic Alert and Collision Avoidance System (TCAS I)	C	1	0	(M)May be inoperative provided the system is deactivated and secured.

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

34-5

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3.	NUMBER REQUIRED FOR DISPATCH	
34	NAVIGATION				
23. ***	Ground Proximity Warning Systems	A	-	0	(0)May be inoperative provided: a) Alternate Procedures are established, used and b) Repairs are made within two flight days.
	1) Modes 1-4	A	-	0	(0)May be inoperative provided: a) Alternate Procedures are established and used and b) Repairs are made within two flight days.
	2) Test Mode	A	1	0	May be inoperative provided: a) The GPWS is considered inoperative and b) Repairs are made within two flight days.
	3) Glideslope Deviation (Mode 5)	B	2	0	
	4) Advisory *** Callouts	C	-	0	(0)May be inoperative provided alternate procedures are established and used.
	5) Windshear Mode ***	C	-	0	(0)May be inoperative provided alternate procedures are established and used.
***	6) Enhanced GPWS	C	-	0	
24. ***	Flight Profile Advisory System	D	-	-	

U. S. DEPARTMENT OF TRANSPORTATION

MASTER MINIMUM EQUIPMENT LIST

FEDERAL AVIATION ADMINISTRATION

AIRCRAFT: BEECH MODELS 100/A100/B100

REVISION NO: 5  
DATE: 10/20/1994

PAGE:  
35-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED		4. REMARKS OR EXCEPTIONS
			3.	NUMBER REQUIRED FOR DISPATCH	
35	OXYGEN				
1.	Oxygen Systems (passenger)	C	-	-	As required by FAR.

U. S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

MASTER MINIMUM EQUIPMENT LIST

AIRCRAFT:

REVISION NO: 5

PAGE:

SYSTEM & SEQUENCE NUMBERS	1. ITEM	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS
52 DOORS				
1.	Cabin Door Warning Light	1	0	May be inoperative provided: a) A flight crewmember confirms by visual inspection that all doors are latched prior to each departure and b) Fasten Seat Belt sign remains on.

U. S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

MASTER MINIMUM EQUIPMENT LIST

AIRCRAFT:  
BEECH MODELS 100/A100/B100

REVISION NO: 5 a

PAGE:

DATE: 08/26/1999

61-1

SYSTEM & SEQUENCE NUMBERS	ITEM	1.	2. NUMBER INSTALLED	3. NUMBER REQUIRED FOR DISPATCH	4. REMARKS OR EXCEPTIONS				
-----									
61	PROPELLERS								
1.	Reverse Not Ready Light	C	1	0	May be inoperative provided propeller control levers are in high RPM position for reversing.				
2.	Propeller Synchrophaser	C	1	0					
3.	Propeller Synchroscope	C	1	0					
4.	Autofeathering Systems (Pratt & Whitney engines only)	C	2	0	<table border="1"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>				