



**AP 112B-0201-2**  
**1st Edition February 1990**

# **COMPASSES STANDBY MAGNETIC**

**GENERAL ORDERS AND MODIFICATIONS**

BY COMMAND OF THE DEFENCE COUNCIL

Ministry of Defence

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-ROYAL NAVY by HAD(N)

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Service users should send their comments through the channel  
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

Naval Aircraft Maintenance Manual (RN)

EMER Aircraft A040 (Army)

AP 100B-01 Order 0504 (RAF)

AMENDMENT RECORD

Insert the leaflet and modification numbers. Sign and date the entry. Make the necessary entries on the relevant modification list(s).

Amdt No.	Leaflet Section Letter and No.	Modification No.	Amended by	Date
1	1	SIC A795		22/2/91
2	2	SIC 5088		22/2/91
3				
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## PREFACE

1 Material issued for inclusion in this Topic 2 should be filed in the following order:

1.1 Preface (this page)

1.2 General orders. These leaflets are identified by the letters 'GO' and should be filed in numerical order.

1.3 Equipment modification list. This list shows all MOD-approved modifications affecting the subject of this Topic 2, including those for which leaflets will not be issued. The list will be reissued periodically. As modification leaflets are inserted, suitable entries should be recorded in the applicable columns of this list.

1.4 Modification leaflets. Leaflets bear numbers allotted in sequence as the leaflets are sent to press and should be filed in numerical order.

2 When a complete leaflet or individual leaf is reissued in amended form the alterations are indicated by triangles thus  
▶ ----- ◀ to show where text has been changed.

EQUIPMENT MODIFICATION LIST

Leaflet No	
Class	
Modification title	
Mod plate strike No	
Contractor Mod No	
MOD Mod No	

Mach 1/1/90

Standby Compass, KCA 0104W and E2B (6B/1048857) Wessex Mk 2

Mod No SIC A795 (Class: S00 for Wessex Mk 2 only)  
File Ref D/SMS 90/10/23/3004  
ADP No XSS 07950

Introduction of Standby Compass Bowl Assembly, 1003-KCA1 (6B/0270415) and Lighting Assembly, CE2-A81 (6B/0079830) in lieu and by conversion of Standby Compass KCA 0104W or E2B (6B/1048857).

Amendment Instructions: Insert this leaflet (1 leaf) in correct sequence. Update the Section/Sub-section/Equipment Modification List. Sign the Amendment Record Sheet.

NOTE: This leaflet is issued for informatory purposes only.

## 1. INTRODUCTION

This modification is introduced to achieve GEN 3 Night Vision Goggle (NVG) compatibility. Design improvements are also introduced as follows:

- (a) Change of bowl moulding material and compensator ring material from perspex to polycarbonate.
- (b) Existing 'O' ring material is changed to fluorosilicone to ensure continued flexibility at -65°C.
- (c) Compass card angle is increased to ensure that the total presentation is illuminated.
- (d) The pivot material is changed to tungsten carbide.
- (e) The tilt angle is increased from 18 deg to 20 deg.
- (f) 5 deg dots are introduced between the 10 deg marks on the compass card.

(1) This modification does not supersede, partially supersede or satisfy the work called for by any other modification, Service modification, or Special Instruction (Technical).

## 2. EMBODIMENT

This modification is to be embodied to special order only at 4th line.

3. EFFECT ON MASS AND MOMENT

This modification has no effect on mass.

4. EFFECT ON AIRCRAFT OPERATION AND HANDLING

This modification does not affect the operation or handling of the aircraft or equipment.

5. CHANGE OF REFERENCE, PART AND ASSEMBLY NUMBERS

The embodiment of this modification changes Reference, Part and Assembly Number as follows:

<u>OLD</u>			<u>NEW</u>		
<u>Ref No</u>	<u>Part No</u>	<u>Nomenclature</u>	<u>Ref No</u>	<u>Part No</u>	<u>Nomenclature</u>
6B/ 1048857	KCA 0104W or E2B	Compass	6B/ 0270415 and 6B/ 0079830	1003-kCAL	Compass Bowl Assy
				CE2-A81	Lightning Assy

6. SPECIAL TEST AFTER EMBODIMENT

No special test is required after the embodiment of this modification but any other appropriate and associated testing is to be carried out.

7. EFFECT ON MAINTENANCE AND GROUND EQUIPMENT

All relevant publications will be considered for amendment action to take account of the changes introduced by this modification.



MA 112B  
22 NOV 90  
Abb.

Standby Compass  
KCA0109W, KCA0101W,  
KCA0104W, KCA0105W,  
KCA0110W, KCA0112W  
Intro of new Compass Bowl Assembly

AP 112B-0201-2  
Leaflet No 2

STANDBY COMPASSES

- KCA0101W or E2A (BOTH 6B/4343605)
- KCA0104W or E2B (BOTH 6B/1048857)
- KCA0105W or KCA0109W or E2C all 6B/1140600)
- KCA0110W or E2D (BOTH 6B/1173134)
- KCA0112W or E2E (BOTH 6B/6400571)

MOD No SIC 5088(Class: C on repair/0)

File Ref: D/SMS 90/10/23/3163

ADP No XSS 50880

- PART A Introduction of Alternative Compass Bowl Assembly 1003KCA1 (6B/0270415) in lieu and by conversion of Standby Compass KCA0101W or E2A (6B/4343605).
- PART B Introduction of Alternative Compass Bowl Assembly 1003KCA1 (6B/0270415) and Lighting Assembly, CE2-A82 (6B/2821593) in lieu and by conversion of Standby Compass KCA0104W or E2B (both 6B/1048857).
- PART C Introduction of Alternative Compass Bowl Assembly 1003KCA1 (6B/0270415) and Lighting Assembly CE2-A83 (6B/9623371) in lieu and by conversion of Standby Compass KCA0105W or KCA0109W or E2C (all 6B/1140600).
- PART D Introduction of Alternative Compass Bowl Assembly 1003KCA1 (6B/0270415) and Lighting Assembly CE2-A84 (6B/5510284) in lieu and by conversion of Standby Compass KCA0110W or E2D (both 6B/1173134).
- PART E Introduction of Alternative Compass Bowl Assembly 1003KCA1 (6B/0270415) and Lighting Assembly CE2-A85 (6B/5178341) in lieu and by conversion of Standby Compass KCA0112W or E2E (both 6B/6400571).

Amendment Instructions: Insert this leaflet ( 2 leaves) in correct sequence. Update the Section/Sub-section/Equipment Modification List. Sign the Amendment Record Sheet.

NOTE: This leaflet is issued for informatory purposes only.

1. INTRODUCTION

Separation into two assemblies enables a faulty lighting assembly to be changed at 1st line, without the need for an aircraft compass swing.

(1) This modification does not supersede, partially supersede or satisfy the work called for by any other modification, Service modification or Special Instruction (Technical).

2. EMBODIMENT

This modification is to be embodied during repair at Fourth Line.

3. EFFECT ON MASS AND MOMENT

This modification has no effect on mass.

4. EFFECT ON AIRCRAFT OPERATION AND HANDLING

This modification does not affect the operation or handling of the aircraft or equipment.

5. CHANGES OF REFERENCE, PART AND ASSEMBLY NUMBERS

The embodiment of this modification changes Reference, Part and Assembly Numbers as follows:

Old Standby Compass		New Standby Compass and Lighting Assembly		
Ref No	Part No	Nomenclature	Ref No	Part No
6B/ 4343605	KCA0101W or E2A	Compass Bowl Assy	6B/0270415	1003KCA1
6B/ 1048857	KCA0104W or E2B	Compass Bowl Assy and Lighting Assy	6B/0270415 6B/2821593	1003KCA1 CE2-A82



Old Standby Compass		New Standby Compass and Lighting Assembly		
Ref No	Part No	Nomenclature	Ref No	Part No
6B/ 1140600	KCA0105W or KCA0109W or E2C	Compass Bowl Assy and Lighting Assy	6B/0270415	1003KCA1
			6B/9623371	CE2-A83
6B/ 1173134	KCA0110W or E2D	Compass Bowl Assy and Lighting Assy	6B/0270415	1003KCA1
			6B/5510284	CE2-A84
6B/ 6400571	KCA0112W or E2E	Compass Bowl Assy and Lighting Assy	6B/0270415	1003KCA1
			6B/5178341	CE2-A85

6. EFFECT ON MAINTENANCE AND GROUND SUPPORT EQUIPMENT

(1) No special test is required after the embodiment of this modification but any other appropriate and associated testing is to be carried out.

(2) All relevant publications will be amended to take account of the changes introduced by this modification.

(3) The relevant aircraft publications Topics 1 and 5W should be amended, under the respective aircraft cover modification, to reflect the changes introduced by modification SIC 5088.