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<u>Chapter</u> 6 SONOBUOY S

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DESCRIPTION

carriers using four bomb bay carrier stations, the carriers and stations to be used being dependent on the configuration of loading demanded by the sortie being undertaken. For descriptive details of the carriers reference must be made to A.P.1664A, Vol.1, Book 1 and for the installation of the carriers to the aircraft refer to A.P.2852, Vol.1, Sect.5, Chap.2A. The carriers and the stations on which they can be loaded for the carriage of sonobuoys are as follows:-

Carrier	Station
AV.211 Mk.2 (Ref.No.11A/6320)	1, 4, 8 and 10
AV.271 (Ref.No.11A/6369)	8 and 8A
AV.272 (Ref.No.11A/6370)	1

Carrier AV.211, Mk.2

The medium stores carrier AV.211

Mk.2 can be installed, when required to carry sonobuoys, on the bomb bay carrier stations 1, 4, 8 and 10. Provision is made on the carrier for the carriage of a maximum of five sonobuoys on carrier stations A, B, C, D and E.

Carrier AV.271

5. Provision is made for the carriage of seven sonobuoys on the torpedo and sonobuoy carrier AV.271. The sonobuoys are loaded on carrier stations 1 to 7 when the carrier is installed at either bomb bay stations 8 or 8A.

Carrier AV.272

6. The sonobuoy carrier AV.272 installed, when required at bomb b station 1 and provides the facility, the carriage of a maximum of thir sonobuoys.

Introduction

1. This chapter describes the provision made in the bomb bay for the carriage of sonobuoys. Release of the sonobuoys from the carriers is controlled electrically, details of the electrical circuit and controls are given in Book 2, Sect.6, Chap.3L of this Volume.

BOMB BAY

2. The bomb bay extends over the full width of the aircraft from former B to former 22. The layout giving the location of the carrier suspension points and crutching points is shown on fig.1 of Chapter 4 of this Section.

CARRIERS

General

3. Sonobuoys are carried on three main



Fig. I. Sopobuoy lanyard attachment points (1)

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LANYARD BEAMS

7. The sonobuoy parachutes are released by lanyards when the sonobuoys are released from the carriers. These lanyards are attached to beams suspended by tubular struts which are secured, by Pip-pins, to attachment brackets on the bomb bay roof cross members. The beams are suspended to clear the bomb heater ducts in positions relative to the sonobuoy positions when they are loaded on the carriers.

Attachments

General

8. The two lanyard beams, used for the sonobuoys carried on bomb bay station 1, are secured to attachment brackets on the forward face of the bomb bay roof cross member at former 4. Two attachment brackets are provided for each beam, one pair to port and the other pair to starboard of the aircraft centre line. The inboard bracket of the port pair is 3.125 in. from the a craft centre line and the outboard bracket 34.625 in. from the aircraft centre line. The inboard bracket of the starboard pair is on the aircraft centre line with the butboard bracket 34.875 in. from the aircraft centre line.

9. The lanyard beam, used for the sonobuoys carried on bomb bay station 4, is secured to two attachment brackets on the rear face of the bomb bay roof cross member at former 11. The attachment brackets are positioned to port of the

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aircraft centre line, 31.5 in. apart with the outboard bracket 34.625 in. from the aircraft centre line.

10. The two lanyard beams, used for the sonobuoys carried on bomb bay station 8, are secured to attachment brackets on the forward face of the bomb bay roof cross member at former 17. Two attachment brackets are provided for each beam, one pair to port and the other pair to starboard of the aircraft centre line. Both pairs are positioned 31^{.5} in. apart with the port outboard bracket 34.625 in. and the starboard outboard bracket 34.75 in. from the aircraft centre line.

11. The two lanyard beams, used for the sonobuoys carried on bomb bay station 8A, are the same beams as given in para.10. The attachment brackets are secured to intercostals between the bomb bay roof cross members at formers 18 and 19 to the same measurements as those on former 17.

12. The lanyard beam, used for the sonobuoys carried on bomb bay station 10, is secured to two attachment brackets mounted on intercostals between the bomb bay roof cross members at formers 21 and 22. The attachment brackets are positioned to port of the aircraft centre line, 25 in. apart with the outboard bracket 35.375 in. from the aircraft centre line.

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Beams

13. Four lanyard attachment beams are

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provided, each made of light-alloy channel section with tubular steel end supports and light-alloy lanyard attachment plates bolted to them. Each beam is fitted with lanyard attachment plates to suit the number of sonobuoys carried on the station which it serves, one attachment plate being available for each sonobuoy.

14. Beam (Part No.4/Z.10867), fitted with eight attachment points, is used on the starboard side at former 17 and between formers 18 and 19 for the sonobuoys carried on stations 8 and 8A respectively. Seven of the attachment points are used for sonobuoy lanyards, the eight attachment point, the centre of a group of three on the outboard end, is used for the torpedo lanyards details of which are given in Chapter 5 of this Section.

15. Beam (Part No.5/Z.10867), fitted with seven attachment points, is used on the port side at formers 4, 11, 17. and between 18 and 19 for the sonobuoys carried on stations 1, 4, 8 and 8A respectively. Six attachment points are used for sonobuoy lanyards, the seventh attachment point, the centre of a group of three on the outboard end, is used for torpedo lanyards details of which are given in Chapter 5 of this Section.

16. Beam (Part No.34/Z.10867), fitted with seven lanyard attachment points, is used on the starboard side at former 4 for the sonobuoys carried on station 1. Beam (Part No.37/Z.10867), fitted with five lanyard attachment points, is used on the port side between formers 21 and 22 for the sonobuoys carried on station 10.