AIR PUBLICATION.....
Volume 2.

Section

O

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NOTE TO USER:—
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(R.A.F. Form 3850 O)

(Continued Overleaf)

M1193
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AL No 82
(Oxygen System - Charging Valve)

AP 101B-1309-2
Leaflet No 01

HUNTER GA/PR11 AIRCRAFT - Oxygen System - To make provision for and introduce Type One Charging Valve (Ref No 6D/2244774) in place of the Mk 10A charging valve (Ref No 6D/2313).

(Mod No HUNTER 1418)

(Class B/2)(NCP)

(D/ADSM 25/10/20/6831:19.11.79)
(ADP No HU 141800)

1. INTRODUCTION

Following two reported incidents with the Mk 10A Oxygen Charging Valve, though not involving Hunter Aircraft, it has been decided to replace this item with the Type One Valve. Owing to differences in construction the Type One Valve must be mounted on a packing block to align the pipe connection.

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

(2) This modification is essentially connected with Mod No Hunter 539 (Oxygen System: Valve, Mk 10 (Ref No 6D/1872 introduced in place of Mk 8 (Ref No 6D/223). If that work is not already embodied it must be effected concurrently.

2. EMBODIMENT

This modification is to be embodied in accordance with the procedure for Class 2 modifications laid down in NAMM AP100N, Chapter 10.

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 9½ manhours.

4. DRAWINGS REQUIRED

The following drawing is required and is to be demanded from the Ministry of Defence (Navy), HAD(N), Golden Cross House, London WC2N 4JF:

Drawing No	Title
D.329654	Oxygen Charging Valve Type 1 Introduced - Retro-action

5. PARTS AND SPECIAL TOOLS REQUIRED

(1) Parts and/or Materials

(a) A modification kit will not be assembled.

(b) The undermentioned materials are required and, if not available, are to be demanded on RNASDC, Llangennech or appropriate RN Store depot.

Ref No	Part No	Nomenclature	Qty	Class of Equipment
6D/2244774	GA 3030 Iss No 14	Oxygen Charging Valve Type 1	1	C
5F/9400958	BS2966 Type 3B ¾"	Synthetic Resin Bonded Sheet for Local manufacture of:	2½ ins x 1 in	C
26FX/ -	F 329656	Packing	1	
28D/9419397	A25-12C	Bolt	2	C
28W/9419475	SP15-C	Washer	2	C
28M/1012015	AGS2001-C1/66	Nut	2	C
30A/9437135	-	Locking Wire (DTD189A) 22SWG	A/R	C
33B/9428868	-	Varnish Seaplane	A/R	C

(2) Special Tools and/or Test Equipment

No special tools or test equipment are required for the embodiment of this modification.

6. MODIFICATION OF SPARES

The following list shows the spares affected by this modification and the parts required to modify them:

Ref No	Part No	Nomenclature	Qty	Class of Equipment
26FX/8080	B.216738	Cover	1	C

Parts required:

Nil

Spares will be modified in accordance with Para 8, operation (3) of this Leaflet and Drg. No D32965^{4}.

7. CHANGE OF REFERENCE, PART AND ASSEMBLY NUMBERS

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

OLD			NEW	
Ref No	Part/Assy No	Nomenclature	Ref No	Part/Assy No
26FX/8080	B.216738	Cover	26FX/13621	B.329655

8. SEQUENCE OF OPERATIONS

The following is the sequence of operations:

Note 1: Before any electrical circuit is disturbed or disconnected, all electrical power supplies in, to or from the aircraft are to be disconnected. Power supplies are to be reconnected only when the person responsible for embodying or inspecting the modification is satisfied that all action has been taken to make the aircraft safe for reconnection.

Note 2: No oil or grease must be allowed to come into contact with any part of the oxygen system. Refer to NAMM AP100N-0140, Article 4104.

(1) Refer to AP101B-1309-1B, Section 5, Chapter 1 and render the aircraft electrically safe.

(2) Refer to Drawing No D329654 and locally manufacture the Packing Piece, Part No F329656 from Synthetic Resin Bonded Sheet, as shown. Paint the cut surfaces with Seaplane Varnish.

(3) Locate the oxygen charging valve situated on the forward, starboard side, of Frame 6 and remove the protective cover, Part No B216738. Modify the Slot as shown in detail 'B' of the drawing. Reidentify the cover to read as Part No B.329655.

(4) Release the oxygen left in the line. Remove and discard the existing Valve MK 10A, Packing Part No F227544 and Lug, Part No F198869, together with the Blanking Union and attaching items. Retain the locking Lug, Part No STD1231-9B.

(5) Obtain new Type 1 Charging Valve and the packing Part No F.329656 manufactured in operation (2). Mount the valve upon the packing and secure to the structure using new bolts Part No A25-12C, washers Part No SP15C and nuts Part No AGS.2001-C1 (2 off ea.) as shown. Refit the retained locking lug Pat No STD1231-9B. Align and tighten pipe union and wire lock.

Note 3: In some aircraft it will be found that the Mk 10A charging valve is mounted upon a base plate adaptor. When fitted, the base plate adaptor and its securing bolts etc. are to be removed and discarded. Drill two holes (Morse No 10) as shown in Drg. No D.329654 and proceed as in operation (5) above.

Note 4: Where Cmd Mod/Hunter/41 (Repositioning of Oxygen Charging Valve) has been embodied remove and discard base plate, adaptor and packing block and fixings. Refer to Drg. No D.329654 and drill two holes (Morse No 10) between existing holes, maintaining angle of valve and proceed as in operation (5) above.

(6) Recharge oxygen system and check for leaks.

(7) Fit the modified Valve cover Part No B.329655.

(8) Restore electrical power.

9. SPECIAL TESTS AFTER EMBODIMENT

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

10. RECORDING ACTION

When this modification has been embodied and inspected, in accordance with current authorised procedure the relevant entries are to be made in the appropriate aircraft records.

11. DISPOSAL OF REDUNDANT PARTS

The undermentioned parts rendered redundant by the embodiment of this modification are to be disposed of as scrap in accordance with AP 830 Vol 1 Part 2B 7th Edition Leaflet BAG 11/4.

			Qty	Class of Equipment
6D/2313	Type 10A	Charging Valve	1	C
6D/1892	775 Issue 4	Adaptor Plate	1 - when fitted	C
26FX/NIV	F.227544	Packing	1	
26FX/10802	F.198869	Lug	1	

12. EFFECT ON MASS AND MOMENT

This modification causes a change in the Basic Mass of plus .13 lb with a change in the moment of minus 25 lb ins about the aircraft CG datum.

13. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING

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

14. EFFECT ON SERVICING AND ON GROUND SUPPORT EQUIPMENT

(1) Servicing, ground support equipment or simulators are not affected by the embodiment of this modification.

(2) All relevant AP's will require amendment to reflect the changes brought about by this modification.

569/2587(RO)9924006/150/12/79.

Printed for Her Majesty's Stationery Office by Swift Printers (Sales) Ltd., London.