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MOD. No. HUNTER 1317
P.T.R.

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STANDARD DRAFT MODIFICATION LEAFLET

18 MAY 1970

A.L. No.

Hunter F. Mk.6 Aircraft
Hunter T. Mk.7 Aircraft
Hunter T. Mk.7A Aircraft
Hunter F.G... Mk.9 Aircraft
Hunter F.R. Mk.10 Aircraft
Hunter Mk. 12 Aircraft.

AP. 101B-1301-2
AP. 101B-1302-2
AP. 101B.1303-2
AP. 101B.1307-2
AP. 101B.1308-2
AP. 4347P. Vol.2

Mod. Leaflet No.

INSTRUMENT INSTALLATION - TO MAKE PROVISION
FOR AND INTRODUCE PRESSURE HEAD MK. 10B
(6A/1065724) IN LIEU OF MK.9.

MOD. No. HUNTER 1317

CLASS B/2.

1. INTRODUCTION

It has been found that the Mk.9 Pitot head tends to break up under fatigue conditions thus giving misleading A.S.I. readings and presenting a hazard. Trials have shown that the Mk. 10B head provides a satisfactory replacement. The Mk.10B head is now introduced for the above marks of HUNTER aircraft.

(1) This modification does not supersede, partially supersede, satisfy the work called for by any modification, Command modification, S.T.I. or S.I.

2. EMBODIMENT

As directed by Command Headquarters.

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately $6\frac{1}{2}$ man hours (2 to strip; $1\frac{1}{2}$ to embody; 2 to reassemble, 1 to test).

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4. DRAWINGS REQUIRED

(1) Drawing No. AP.101B-1301/2/3/7/8-2 and AP.4347 P. Vol.2
/ / sheets is incorporated in this leaflet.

None

(2) The following drawing is required and is to be demanded for
R.A.F./Army Stores in accordance with AP.3158, Vol.2.,
Leaflet No.D.7.

<u>Drawing No.</u>	<u>Title</u>
D 297020	Introduction of Pressure Head Mk.10B In lieu of Mk.9 Series.

5. PARTS AND SPECIAL TOOLS REQUIRED.

(1) Parts and/or Materials.

(a) The modification kit which consists of the following items will be assembled by No. Maintenance Unit under Ref. No.
(i) Items supplied by the Contractor:-

<u>Ref. No.</u>	<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Class of Equipment.</u>
A.297018		Pipe - Pitot Static	1	
A.297019		Cable Assy. P.13 ✓	1	
F.297221		Locating Spigot	1	
F.299489/1		Label for T.B.22	1	
F.304346/1		Label for T.B.22	1	(Mk.12)
STD 840/14		Clip	1	
STD 840/16		Clip	1	
A.25.1/2 B		Bolt	1	
A.25.1.B.		Bolt	2	
AGS.2001.B.1.		Nut	1	
AGS.2002.B.1.		Nut	2	
AS. 6710		Union Body	1	
AS. 8599		Nut & Bush Assy.	2	
AS.3360.B.B.B.		Earthing connection	1	
SP.15.B.		Washer	2	
6A/11492		Pitot Static head	1	
		Mk. 10B		

(ii) Service Supply items:-

None.

(b) Additional Service Supply items forming part of the complete modification but not assembled in the kit:-

<u>Ref. No.</u>	<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Class of Equipment.</u>
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All the above items will be issued on Issue Order to R.A.F. Units at home and those overseas Units on direct re-supply; no demands are to be submitted. Other R.A.F. Units abroad and all other users, are to demand separately their requirements of kits as listed at sub-para (a) above and additional items as listed at sub-para (b) above, in accordance with current regulations; demands for additional items as listed at sub-para (b) are to be endorsed "For use in conjunction with Mod. No. HUNTER 1317, Ref. No. ".

(c) The following materials are to be provided under Unit arrangements.

None.

(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.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Nomenclature.</u>	<u>Qty</u>	<u>Class of Equipment.</u>
26FX/10800	F.239745	Wing (Port)	F.R. Mk.10	
26FX/12299	F.266515	Wing (Port)	F.Mk. 6 & T. Mk.7.	
26FX/12367	F.265796	Wing (Port)	F.G.A. Mk.9.	

Parts required for each of the above:-

A.297018	Pipe- Pitot Static	1
F.297221	Locating Spigot	1
F.299489/1	Label for T.B.22	1
STD.840/14	Clip	1
STD.840/16	Clip	1
A.25.1/2.B	Bolt	1
A.25.1.B.	Bolt	2
AGS.2001.B.1.	Nut	1
AGS.2002.B.1.	Nut	2
AS.6710	Union Body	1
AS.8599	Nut & Bush Assy.	2
AS.3360.B.B.B.	Earthing connector	1
SP.15.B.	Washer	2

See Para.11 sub-para (2) for spare rendered redundant.

7. CHANGE OF REFERENCE, PART AND ASSEMBLY NUMBERS.

There are no changes of Reference, Part or Assembly Numbers as a result of this modification.

8. SEQUENCE OF OPERATIONS

The following is the sequence of operations:-

NOTE: 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.

- (1) Render the aircraft electrically safe (AP.101B-1301/1302/1303/1307/1308-1 and AP.4347P. Vol.1, Sect. 5. Chap.1. refers).
- (2) Remove the wing tip and Mk.9 pressure head (AP 101B-1301/1302/1303/1307/1308-1 and AP 4347 P, Vol.1., Sect. 3. Chap.2 refers).

NOTE:- The Mk.9 pressure head becomes redundant.

- (3) Refer to Drawing No. D.297020. Disconnect, remove and discard static pipe, Part No. A.196449/32, together with existing earthing connector, Part No. STD.1285.4.BB.

(3) (Contd..)

Straight union, Part No. A.G.S. 838/1 and nut assemblies,
Part No. A.G.S. 838/13 (2 off)

(4) Temporarily fit pressure head Mk.10B and clamp up, and at
aft mounting bracket locate, mark off and drill bracket
to match locating spigot, Part No. F.297221. (Detail 'A'
of Drawing No. D. 297020 refers). Remove pressure head
and fit locating spigot as shown (Drawing No. D.297020
refers).

(5) Fit new static pipe, Part No. A. 297018 together with
connector, Part No. AS. 6710 and nut and bush assemblies,
Part No. AS 8599 (2 off) as shown. (Drawing No. D.297020
refers).

(6) To Mk.10B pressure head, Ref. No. 6A/11492 connect up P.13
cable assy., Part No. A. 297019.

(7) Feed through and clamp into position with existing clamps
connecting up to pitot and static pipes as shown (Drawing
No. D. 297010 refers) engaging with locating spigot.

(8) Route P.13 cable as shown connecting into terminal block
No.22 as shown (Drawing No. D.297010 refers), removing
existing terminal block label and fitting new label,
Part No. F.299489/1 (F.304346/1 for Mk.12).

(9) Replace the wing tip (AP.101B-1301/1302/1303/1307/1308-1
and AP. 4347P. Vol.1., Sect.3, Chap. 2 refers).

(10) Reinstate the electrical supply (AP.101B-1301/1302/1303
1307/1308-1 and AP.4347, Vol. 1. Sect. 5., Chap 1. refers).

(11) Record the embodiment of this modification on the wing
modification plate.

9. SPECIAL TESTS AFTER EMBODIMENT

When this modification has been embodied and inspected the
following special tests are to be carried out.

Carry out pressure head leak test in accordance with AP.1275A,
Vol.2, Leaflet No.A9.

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.

(1) The undermentioned parts rendered redundant by the embodiment of this modification are to be returned to

<u>Ref. No.</u>	<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Class of Equipment.</u>
6A/7036		Pressure head Mk.9	1	

(2) The undermentioned parts rendered redundant by the embodiment of this modification are to be disposed of.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Nomenclature</u>	<u>Qty</u>	<u>Class of Equipment.</u>
26FX/4246	A.196449/32	Pipe - Static	1	

12. EFFECT ON WEIGHT AND MOMENT

This modification causes a change in Basic Weight of plus 1.5 lb with a change in moment of plus 75 lb/in. about the C.G. datum.

13. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING.

This modification does not affect the operation or handling of the aircraft or equipment. The breaking up of the pressure head under certain conditions and consequent presentation of misleading A.S.I. has, however, been eliminated.

14. EFFECT ON SERVICING AND ON GROUND SUPPORT EQUIPMENT

Servicing is eased in that examinations of the pressure head for evidence of fatigue and need for replacement are considerably reduced.

Technically approved for Hawker Siddeley Aviation Limited,
Kingston upon Thames.

By. S. Whale.

Date 2-12-79.

STANDARD DRAFT MODIFICATION LEAFLET

L. No.

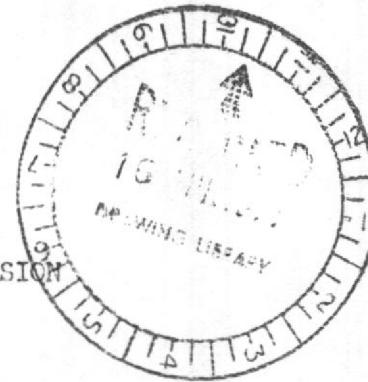
PROCESS

AP.101B-1301-2
AP.101B-1302-2
AP.101B-1303-2
AP.101B-1307-2
AP.101B-1308-2
AP.4347P.Vol.2

Leaflet No.
(H.S.A. Alteration No.2)

Hunter F.Mk.6 Aircraft
Hunter T.Mk.7 Aircraft
Hunter T.Mk.7A Aircraft
Hunter F.G.A. Mk.9 Aircraft
Hunter F.R. Mk.10 Aircraft
Hunter Mk.12 Aircraft

INSTRUMENT INSTALLATION - TO MAKE PROVISION
FOR AND INTRODUCE PRESSURE HEAD MK.10B
(6A/1065724) IN LIEU OF MK.9



1. AP.101B-1301-2 LEAFLET NO. (AL. No.)
- AP.101B-1302-2 LEAFLET NO. (AL. No.)
- AP.101B-1303-2 LEAFLET NO. (AL. No.)
- AP.101B-1307-2 LEAFLET NO. (AL. No.)
- AP.101B-1308-2 LEAFLET NO. (AL. No.) and
AP.4347.P.Vol.2 LEAFLET NO. (AL.No.) (Mod No.)

HUNTER 1317 are amended as follows:-

(1) Para.5 Parts and Special Tools required.

At sub-para.(1) (a) (i) ALTER:- AS.3360.6.BB TO READ:- AS.3360.B.6.B.

(2) Para.6 Modification of Spares

At 'Parts required', ALTER:- AS.3360.6 BB TO READ:- AS.3360.B.6.B.

(3) Para.8 Sequence of Operations

At sub-para. (5) AFTER "-----Part No. AS.8599 (2.off) INSERT:-"
and earthing connector, Part No. AS.3360.B.6.B, clipping-----".

TECHNICALLY APPROVED FOR - HAWKER SIDDELEY AVIATION LIMITED
Kingston upon Thames


By.....S. WHALE.....
Date.....15-4-71.....



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