AIR PUBLICATION.....
Volume 2.

Section C

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A.L. No. 28
(Intro. Bomb Practice facility)

A.P.101B - 1311 - 2
Leaflet No. C.1

Hunter G.A. Mk. 11 Aircraft - Armament - Fuselage Electrics - To introduce practice bomb facility (Pre Mod.228 Aircraft)

(Mod. No. Hunter 1255)

(Class B/2 to aircraft not embodying Mod.228 but embodying Mod. 1254. Concurrent with Mod. 1211)

(AB/A/20894 - 26.1.67)

1. INTRODUCTION

This modification introduces changes to the fuselage electrical system to accommodate the carriage of practice bombs on wings and on the gun package. This is a M.O.D. (Naval) Staff requirement.

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

(2) This modification is essentially connected with Mod. No. Hunter 1211 (Armament - To make provision for carriage and release of 4 x 25lb or 4 x 28lb practice bombs on gun pack) and Mod. No. Hunter 1254 (Armanent - To make provision for the carriage and release of 4 x 25lb or 4 x 28 lb practice bombs on outer mainplanes - Pre Mod.228 Aircraft).

2. EMBODIMENT

This modification is to be embodied in accordance with the procedure for Class B/2 modifications laid down in N.A.M.M. (A.P.(N) 140).

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 50 man-hours. (10 to strip; 30 to embody; 5 to reassemble; 5 to test).

4. DRAWINGS REQUIRED

(1) No drawings are required for the embodiment of this modification.

(2) The following drawings are required and are to be demanded for Naval Stores from the Director General, Aircraft, Admiralty London, S.W.1

Drawing No.	Title
E.265356	Wiring diagram complete - Practice bombs
C.265300	Electrical alterations practice bombs fuselage.
C.272648	Frame 14 side portion - Port
A.264981	Mod. to Arm J.B.1
F 264982	Mod. to Arm J.B.2

5. PARTS AND SPECIAL TOOLS REQUIRED

(1) Parts and/or Materials

(a) The undermentioned items comprise a Set of Parts. Demands for Sets of Parts are to be forwarded to the Ministry of Defence (N), London, S.W.6

Ref.No.	Part No.	Nomenclature	Qty.
26FX/-	D.264915	Assy. Arm J.B.10 junction box	1
26FX/-	B.264998	Attachment angle (TOP)	1
26FX/-	B.264999	Attachment angle (Bt'm)	1
26FX/-	B.265179	A.50 Cable assembly	1
26FX/-	B.265289/1	Wiring diagram Arm.J.B.1	1
26FX/-	B.265290/1	Wiring diagram Arm.J.B.2	1
26FX/-	F.256387	Commoning link	2
26FX/-	F.263709	Adaptor plate	1
26FX/-	F.265332/1	Label for Arm J.B.7	1
26FX/-	STD.1509/12/030	Distance tube	1
26FX/-	STD.1687/2	Saddle	1
26FX/-	STD.2045/34/22	Clip	1
26FX/-	STD.2045/46/20	Clip	3
26FX/-	STD.2134/11/ PYLON SEL. S.W.2.	Sleeve	1
26FX/-	STD.2134/11/ PYLON SEL. S.W.3	Sleeve	1
26FX/-	STD.2134/21/ A.7A.	Sleeve	1
28D/-	A.25.½.B	Bolt	2
28D/-	A.25.17.B	Bolt	1
28D/-	A.25.1.C	Bolt	4
28Q/-	A.44.B.12	Screw	2
28M/-	A.G.S.2001.B1.	Nut	2
28M/-	A.G.S.2001.E1.	Nut	1
28Q/1650	AS.156/404	Rivet	2
28Q/-	AS.156/405	Rivet	7
28Q/7655	AS.164/404	Rivet	4
28Q/-	AS.164/406	Rivet	6
28D/-	AS.1248.½.E.	Bolt	1
28W/9419474	SP.15.B.	Washer	2
28W/-	SP.15.C.	Washer	4
28W/-	SP.15.E	Washer	1
		01.Tag.Ross Courteney	3
		Sleeve, Helsyn 150 HT.20 x ½"	2

(b) Service Supply items.

Ref.No.	Nomenclature	Qty.
5CW/7540	Switch, S.P.	1
10H/27198	Fuse, type S. 5 amp.	1

(c) The undermentioned materials are also required and if not available are to be demanded on the appropriate R.N. Store Depot.

Ref.No.	Part No.	Nomenclature	Qty.
5E/3038		Cable, Unipren 6	As required
5E/3040		Cable, Unipren 12	As required
5F/9138822	AS.4715	Stud	As required
5F/9454141	AS.4713	Strap	As required
32A/94		Cord. Specn. F.35	As required
33C/1533	EC.750	Sealant Specn. D.T.D.900/4451	As required

(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.
26FX/	C.251908	Assy. of Arm J.B.1	
		Parts required	
	B.265289/1	Wiring diagram	1
	F.256387	Commoning link	2
	STD.2134/21/A7A	Sleeve	1
		01. Tag. Ross Courteney	3
		Sleeve Helsyn 150 HT.20 x ½"	2
5E/3038		Cable Unipren 6	As required
5E/3040		Cable Unipren 12	As required
26FX/20156	C.252113	Assy. of Arm J.B.2.	
		Parts required	
	B.265290/1	Wiring diagram	1
10H/21798		Fuse. Type S. 5 amp.	1

7. CHANGE OF REFERENCE, PART AND ASSEMBLY NUMBERS

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

Ref.No.	Old Part/Assy.	Nomenclature	Ref.No.	New Part/Assy.
26FX/	C.251908	Assy. of Arm.J.B.1	26FX/	C.274660
26FX/20156	C.252113	Assy. of Arm.J.B.2	26FX/	C.274661

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 re-connected 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.4347L & S Vol. 1, Book.2, Sect. 5, Chap. 1 refers).

(2) Remove the assy. of "gun package", (to be renamed "Bomb pack") Part No. D.265333 (Pre Mod. H.1009 aircraft) or D.272678 (Post Mod. H.1009 aircraft).

(3) Lower the Tacan panel (Post H.1009 aircraft) (AP.4347L & S, Vol. 1, Book 2, Sect. 6, Chap. 2, App.1 refers).

(4) Remove the radio bay access door.

(5) In cockpit, port side, disconnect and remove bomb/RP control panel and remove fuzing selector switch. Remove and discard adaptor plate, Part No. A.251996/1. Mark off and modify existing cut-out and fit new adaptor plate, Part No. F.263709 as shown on Drawing No. C.265300. Re-part number panel as B.264621.

(6) Modify A.12 cable assy., Part No. C248312, end 'C' (disconnected from bomb/RP panel at sub-para.5) fitting in new link wire as shown at 'Mod. to existing A.12 cable assy' on Drawing No. C.265300. Re-part number cable C.278921.

(7) To modified panel, Part No. B.264621, fit new switch, Ref. No. 5CW/7540 and, using existing fixings, fit fuzing selector switch in new position as shown on Drawing No. C.265300.

(8) Refit the modified bomb/RP control panel connecting up to modified A.12 cable assy. Part No. C.264145.

(9) At aft force of frame 14, port side, locate top attachment angle Part No. B.264998 and drill out existing rivets in way of angle as indicated. Mark off and drill diaphragm of frame 3 holes Morse No. 30 to suit angle. Fit angle as shown on Drawing No. C.272648.

(10) Locate bottom attachment angle, Part No. B.264999 and drill out existing rivets in way of angle as indicated. Mark off and drill diaphragm of frame 2 holes Morse No. 30 to suit angle. Fit angle as shown on Drawing No. C.272648.

(11) At transverse stiffener below bottom angle, drill out 5th rivet outboard of outboard stiffener. Locate saddle, Part No. STD.1687/2 and drill frame diaphragm 1 hole Morse No. 30 to suit. Fit saddle as shown on Drawing No. C.272648. Seal in accordance with AP.4347L & S, Vol. 1, Book 1, Sect. 3, Chap. 8.

(12) Fit Arm J.B.10, Part No.D.264915 to mounting angles, fitted at sub-paras. (9) and (10), as shown on Drawing No.C.265300.

(13) Connect in A.50 cable assy, Part No. B.265179 to Arm.J.B.10, lead down aft face of frame 14, port side tieing in with cables A.52, A.53, A.55 and A.57 (these cables being part of Arm J.B.10) and clip to hydraulic fairlead as shown in 'View in direction of arrow frame 14 looking forward' and 'View on Fr.14 looking forward' of Drawing No.C.265300.

(14) Run cables forward to port side of frame 13, clipping to hydraulic pipe fairlead aft. of frame 13 ('View in direction of arrow. Fr.14 looking forward' refers).

(15) At frame 13 locate, mark off and drill 2 holes Morse No.25 and fit clip Part No.STD.2045/46/20 at outboard position fastening A.50, A.52, A.53, A.55 and A.57 into position. Fit clip Part No.STD.2045/34/22 at inboard position, fastening A.52 and A.57 cables into position. Feed A.50 cable assy. through lightening hole into transverse channel as shown at 'View on arrow C-FR.13 looking forward' of Drawing No.C.265300.

(16) Continue run of A.50 cable assy. through channel, out of lightening hole at starboard side, as shown in 'View in direction of arrow FR14 looking forward' and run aft tieing in with existing cable runs to Arm.J.B.7 at starboard side between frames 15 and 16.

(17) Connect A.50 cable assy. Part No.B.265179 into Arm J.B.7 as shown in wiring diagram, Drawing No.E.265356. Replace existing label with new label Part No.F.265332/1.

(18) Disconnect existing A.7 cable assy. (end 'B') from floor break and connect in with A.57 cable as shown in side elevation and 'Detail B' of Drawing No.C.265300.

(19) Connect A.52 cable to existing A.9 cable assembly at floor break as shown in side elevation of Drawing No.C.265300.

(20) Strap cables into position between frames 12 and 13 as shown in 'Detail B' of Drawing No.C.265300.

(21) Modify Arm J.B 2 as shown on Drawing No.F.264982 fitting fuse, type 'S', 5 amp, Ref.No.10H/21798. Remove existing diagram and fit new wiring diagram, Part No.B.265290/1. Re-part number J.B.2 as C.274661.

(22) Modify Arm J.B.1 as shown on Drawing No.A.264981 removing existing diagram and fitting new wiring diagram Part No.B.265289/1. Re-part number modified J.B.1 as C.274660.

(23) Replace the radio bay access door.

(24) Raise the Tacan panel into position (Post H.1009 aircraft) (AP.4347L & S. Vol. 1, Book 2, Sect. 6, Chap. 2. App.1 refers).

(25) Replace the 'bomb package', (re-named from "gun package", Part No. D. 265333 (Pre Mod. H. 1009 aircraft) or D. 272678 (Post Mod. H. 1009 aircraft) connecting A. 53 cable to A. 54 cable and A. 55 cable to A. 56 (Drawing No. E. 265356 refers).

(26) Re-instate the electrical supply (AP. 4347L & S Vol. 1, Book 2, Sect. 5, Chap. 1 refers).

9. SPECIAL TESTS AFTER EMBODIMENT

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

(1) Check wiring installed in conjunction with that installed by Mods. H. 1211 and H. 1254 for continuity, insulation and correctness of function.

(2) Carry out cabin pressure test in accordance with AP. 4347L, Vol. 1, Book 1, Sect. 3, Chap. 8.

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.

Part No.	Nomenclature	Qty.
A. 251996/1	Adaptor plate	1
	Wiring diagram Arm. J. B. 1	1
	Wiring diagram Arm J. B. 2	1

12. EFFECT ON WEIGHT AND MOMENT

This modification causes a change in Basic weight of plus 8. 0lb. with a change in moment of minus 1000lb. ins. about the CG. datum.

13. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING

This modification affects the operation of the aircraft in so far that additional switching is provided in the cockpit for the control of practice bomb loads.

M193/1

A.L. No. 30
(Practice Bomb facility Introduced)

A.P.101B-1311-2
Leaflet No. C.2.

Hunter G.A. Mk. 11 Aircraft - Armament - Fuselage Electrics - To Introduce Practice Bomb Facility (Post Mod.228 Aircraft)

(Mod. No. HUNTER 1256)

(Class B/2 to aircraft embodying Mod.228, concurrently with Mod. 1211).

(AB/A/20921 - 31.1.67)

1. INTRODUCTION

This modification introduces changes to the fuselage electrical system to accommodate the carriage of practice bombs on wings and fuselage. This is a M.O.D. (Naval) Staff requirement.

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

(2) This modification is essentially connected with Mod. No.HUNTER 1211 (ARMAMENT - TO MAKE PROVISION FOR CARRIAGE AND RELEASE OF 4 x 25 lb. OR 4 x 28lb. PRACTICE BOMBS ON GUN PACK) 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 N.A.M.M. (A.P.(N) 140).

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 50 man-hours (10 to strip; 30 to embody; 5 to re-assemble; 5 to test).

4. DRAWINGS REQUIRED

The following drawings are required and are to be demanded for Naval Stores from the Director General, Aircraft, Admiralty, London, S.W.1.

Drawing No.	Title
D.271295	Wiring Diagram complete
C.271069	Electrical Alterations Practice Bombs Fuselage.
C.272648	Frame 14 Side Portion (Part)
B.271089	Mod. To A7 Cable Assy.

5. PARTS AND SPECIAL TOOLS REQUIRED

(1) Parts and/or Materials

(a) The undermentioned items comprise a Set of Parts. Demands for Sets of Parts are to be forwarded to the Ministry of Defence (N), Empress State Building, London, S.W.6.

Ref.No.	Part No.	Nomenclature	Qty.
26FX/-	D.271068	Assy. of Arm.J.B.10	1
26FX/-	C.271232/1	Wiring diagram	1
		Leg panel	
26FX/-	B.264998	Attachment channel (Top)	1
26FX/-	B.264999	Attachment channel (Bt'm)	1
26FX/-	B.265179	A.50 Cable assy.	1
26FX/-	B.271230/1	Wiring diagram (ARM.J.B.1)	1
26FX/-	B.271231/1	Wiring diagram (ARM.J.B.2)	1
26FX/-	F.265332/1	Label for Arm.J.B.7	1
	STD.1509/12/030	Distance tube	1
26FX/-	STD.1687/2	Saddle	1
26FX/-	STD.2045/26/22	Clip	1
26FX/-	STD.2045/46/20	Clip	3
26FX/-	A.25.½.B.	Bolt	2
28D/-	A.25.1.C.	Bolt	4
28D/-	A.25.17.B	Bolt	1
28M/-	A.G.S.2001.B.1	Nut	2
28M/-	A.G.S.2001 E.1	Nut	1
28Q/7655	AS.156/404	Rivet	2
28Q/7656	AS.156/405	Rivet	7
28Q/-	AS.164/406	Rivet	6
28W/-	AS.1248.½.E	Bolt	1
28W/9419-475	SP.15.B.	Washer	2
28W/9419-405	SP.15.C.	Washer	4
5K/-	SP.15.E.	Washer	1
5X/-	508/2/03273	Cut ferrule (Plessey)	1
		Sleeve, Helsyn 150 HT 20 x ½"	12
10H/0970059	Z/60668	Outlet gasket (Plessey)	1
10H/0970063	CZ/51528	Outlet straight (Plessey)	1
10H/0970109	Z/62236	Union gasket (Plessey)	1
10H/9729113	2CZ/84415	Free socket (Plessey)	1
5X/6314	Z/50214	Commoning Link (Plessey)	1

(b) The undermentioned materials are also required and if not available, are to be demanded on the appropriate R.N. Store Depot.

Ref. No.	Part No.	Nomenclature	Qty.
5E/3038	-	Cable, Unipren 6	As required
5F/2035	-	P.V.C. Tube ½" i/dia. Specn. E.1.649	As required
5F/2040	-	P.V.C. Tube 1½" i/dia. Specn. E.1.649	As required
5F/9138822	NY 3342	Stud	As required
5F/9454141		Strap	As required
32A/94	-	Cord, Specn. F.35	As required
33C/1533	EC.750	Sealant, Specn. D.T.D. 900/4451	As required

(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.
26FX/10730	C.250878	Assy. of Arm. J.B.1	
		Parts required:-	
5X/6314	Z/50214	Commoning link (Plessey)	1
	B.271230/1	Wiring diagram	1
26FX/	C.264362	Assy. of Arm. J.B.2	
		Parts required:-	
	B.271231/1	Wiring diagram	1

7. CHANGE OF REFERENCE, PART AND ASSEMBLY NUMBERS

This modification changes Reference, Part and Assembly Numbers as follows:-

Ref. No.	Old Part/Assy. No.	Nomenclature	Ref. No.	New Part/Assy. No.
26FX/10730	C.250878	Assy. of Arm. J.B.1	26FX/	C.271233
26FX/	C.264362	Assy. of Arm. J.B.2	26FX/	C.271234

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 (AP4347L & S, Vol. 1, Book 2, Sect. 5, Chap. 1 refers).

(2) Remove the assy. of "gun package" (renamed "bomb pack") Part No. D.265333 (Pre -Mod. H.1009 aircraft) or D.272678 (Post Mod. H.1009 aircraft).

(3) Lower the Tacan panel (Post H.1009 aircraft) (AP.4347L & S Vol. 1, Book 2, Sect. 6, Chap. 2, App. 1 refers).

(4) At armament panel, disconnect, tape and stow wire coded 'A.12AG'. Re-identify A.12 cable assy. as C.271227 as shown at detail 'A' of Drawing No. C.271069.

(5) At leg panel, disconnect wire coded 'A.11G' from terminal 22, and stow. Re-part number cable as A.278519. Remove existing diagram and fit new wiring diagram, Part No. C.271232/1. Re-part number leg panel as D.271235.

(6) At aft face of frame 14, port side, locate top attachment angle, Part No. B.264998 and drill out existing rivets in way of angle as indicated. Mark off and drill diaphragm of frame, 3, holes Morse No. 30 to suit angle. Fit angle as shown on Drawing No. C.272648.

(7) Locate bottom attachment angle, Part No. B.264999 and drill out existing rivets in way of angle as indicated. Mark off and drill diaphragm of frame, 2 holes Morse No. 30 to suit angle. Fit angle as shown on Drawing No. C.272648.

(8) At transverse stiffener below bottom angle drill out 5th. rivet outboard of outboard stiffener. Locate saddle, Part No. STD.1687/2 and drill frame 1 hole Morse No. 30 to suit. Fit saddle as shown on Drawing No. C.272648. Seal in accordance with AP.4347L & S. Vol. 1, Book 1, Sect. 3, Chap. 8.

(9) Fit Arm.J.B.10, Part No. D.271068 as shown on Drawing No. C.271069.

(10) Connect in A.50 cable assy., Part No. B.265179 to Arm J.B.10, lead down aft face of frame 14, port side, tieing in with cables A.53, A.55 and A.57 (These cables being part of J.B.10) and clip to hydraulic fairlead as shown in 'View in direction of arrow Fr.14 looking forward' and 'View on Fr. 14 looking forward' of Drawing No. C.271069.

(11) Run cables forward to port side of frame 13, clipping to hydraulic pipe fairlead aft of frame 13 ('View in direction of arrow, Fr.14 looking forward' refers).

(12) At frame 13 locate, mark off and drill 2 holes Morse No. 25 and fit clip Part No. STD.2045/46/20 at outboard position fastening A.50, A.53, A.55 and A.57 cables into place. Fit clip, Part No. STD.2045/26/22 at inboard position, clipping in A.57 cable. Feed A.50 cable through lightening hole in transverse channel as shown in 'View on arrow C. Fr.13 looking forward' of Drawing No. C.271069.

(13) Continue run of A.50 cable assy. through channel, out of lightening hole at starboard side as shown in 'View in direction of arrow. Fr.14 looking forward' and run aft, tieing in with existing cables to Arm.J.B.7 at starboard side between frames 15 & 16.

(14) Connect in A.50 cable assy. to Arm J.B.7 as shown on wiring diagram, Drawing No. B.271295. Replace existing label with new label, Part No. F.265332/1.

(15) At floor break disconnect A.7 cable assy, Part No.C.219943, end 'A' and modify, forming new and 'F' as shown on Drawing No. B.271089. Re-part number the modified cable as C.271226.

(16) Re-connect end 'A' at floor break and connect new and 'F' to A.57 cable as shown in 'View in direction of arrow. Fr.14 looking forward' of Drawing No.C.271069.

(17) Strap cables into position between frames 12 and 13 as shown in 'Detail B' of Drawing No. C.271069.

(18) Modify Arm J.B.2 as shown on Drawing No.C.271069, remove existing diagram and fit new wiring diagram, Part No.B.271231/1.

(19) Modify Arm. J.B.1 as shown on Drawing No. C.271069 using new commoning link, Ref. No. 5X/6314. Remove existing wiring diagram and fit new diagram, Part No. B.271230/1.

(20) Replace the radio bay access door.

(21) Raise the Tacan panel (Post H.1009 aircraft) (AP. 4347 L & S Vol. 1, Book 2, Sect. 6, Chap. 2, App. 1 refers).

(22) Replace the bomb package, Part No. D.265333 (Pre Mod. H.1009 aircraft) or D.272678 (Post Mod. H.1009 aircraft) connecting A.53 cable to A.54 cable and A.55 cable to A.56 cable (Drawing No. D.271295 refers).

(23) Reinstate the electrical supply (AP.4347L & S, Vol. 1, Book 2, Sect. 5, Chap. 1 refers).

9. SPECIAL TESTS AFTER EMBODIMENT

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

Check wiring installed in conjunction with that installed by Mod. H.1211 for continuity, insulation and correctness of function.

Carry out cabin pressure test in accordance with AP.4347L & S, Vol. 1, Book 1, Sect. 3, Chap. 8.

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:-

Ref. No.	Nomenclature	Qty.
26FX/-	Wiring diagram Arm. J.B.1	1
26FX/-	Wiring diagram Arm. J.B.2	1
26FX/-	Wiring diagram Leg panel	1
26FX/-	Wiring diagram J.B.7	1

12. EFFECT ON WEIGHT AND MOMENT

This modification causes a change in Basic Weight of plus 6½lb. with a change in moment of minus 702 lb. in. about the C.G. datum.

13. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING

This modification affects the operation of the aircraft in that wiring at the bomb switch is revised to allow the existing switch to control the practice bombs.

A.L. No. 31
(To make provision for practice Bombs)

A.P.101B-1311-2
Leaflet No. C3.

Hunter G.A. Mk.11 Aircraft - Armament - To make provision for the Carriage and Release of 4 x 25 lb or 4 x 28 lb Practice Bombs on Outer Main Planes (Pre. Mod. 228 Aircraft)

(Mod. No: HUNTER 1254)

(Class: B/2 to aircraft not embodying Mod.228 but embodying Mod.1255)

(AB/A/20898 - 2.2. 67)

1. INTRODUCTION

Following on a M.O.D. (Naval) Staff requirement, the main planes of the Hunter G.A.MK.11 aircraft are modified to provide for the carriage and release of practice bombs.

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

(2) This modification is essentially connected with Mod.No. HUNTER 1255 (ARMAMENT, FUSELAGE ELECTRICS, TO INTRODUCE PRACTICE BOMB FACILITY - PRE MOD.228 AIRCRAFT) if that work is not already embodied it must be effected concurrently.

2. EMBODIMENT

(1) This modification is to be embodied in accordance with the procedure for Class B/2 modifications laid down in N.A.M.M. (A.P.(N)140).

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 200 man-hours.
(5 to strip; 180 to embody; 5 to reassemble; 10 to test).

4. DRAWINGS REQUIRED

(1) The following drawings are required and are to be demanded for Naval Stores from the Director General, Admiralty, London, S.W.1.

Drawing No.	Title
D.265757	Alteration to wing (PRE.228)
D.265777	G.A. of practice bomb carriers
B.265822	MOD. to A.I. cable assy.
B.265823	MOD. to A.2. cable assy.
B.266825-8	Top mounting angle
B.266829-30	Pylon mounting, aft - outboard
B.266831-2	Pylon mounting, fwd. - outboard
B.267647-8	Pylon Mounting, fwd - inboard
B.267649-50	Pylon mounting, aft - inboard
E.265356	Wiring diagram complete. Practice bombs.

5. PARTS AND SPECIAL TOOLS REQUIRED

(1) Parts and/or Materials

(a) The following items comprise a Set of Parts. Demands for Sets of Parts are to be forwarded to the Ministry of Defence (N), London, S.W.6.

Ref.No.	Part No.	Nomenclature	Qty.
	C.265654	Assy. of pylon (Port)	2
	C.265655	Assy. of pylon (Stb'd)	2
	B.265692	Bottom mounting angle inboard (Port)	1
	B.265693	Bottom mounting angle inboard (Stb'd)	1
	B.265694	Bottom mounting angle outboard (Port)	1
	B.265695	Bottom mounting angle outboard (Stb'd)	1
	B.265824	A.58 Cable assy.	1
	B.265825	A.59 Cable assy.	1
	B.266825	Top mounting angle inboard (Port)	1
	B.266826	Top mounting angle inboard (Stb'd)	1
	B.266827	Top mounting angle outboard (Port)	1
	B.266828	Top mounting angle outboard (Stb'd)	1
	B.266829	Pylon mounting aft outboard (Stb'd)	1
	B.266830	Pylon mounting aft outboard (Port)	1
	B.266831	Pylon mounting forward outboard (Stb'd)	1
	B.266832	Pylon mounting forward outboard (Port)	1
	B.267645	Web (inboard)	2
	B.267646	Web (outboard)	2
	B.267647	Pylon mounting forward inboard (Stb'd)	1
	B.267648	Pylon mounting forward inboard (Port)	1
	B.267649	Pylon mounting aft inboard (Stb'd)	1
	B.267650	Pylon mounting aft inboard (Port)	1
	B.270708	Landing outboard (Port)	1
	B.270709	Landing outboard (Stb'd)	1
	B.270730	Access door (Port)	2
	B.270731	Access door (Stb'd)	2
	B.270732	Landing inboard (Port)	1
	B.270733	Landing inboard (Stb'd)	1
	A.206869	Plug bracket	4
	F.265643	Stud plate	2
	F.267671	Washer	8

	STD.1231/9	Locking lug	4
	STD.2045/20/24	Clip	2
	STD.2045/32/22	Clip	4
	STD.2136/11/A.1 TO A.58	Sleeve	1
	Std.2136/11/A.2 TO A.59	Sleeve	1
	A.24.N.S.	Nut	8
	A.25. I.B.	Bolt	2
	A.25. I.C.	Bolt	4
	A.25.4.E	Bolt	32
	A.G.S.2001.C.1.	Nut	8
	A.G.S.2002.B.1	Nut	17
	A.G.S.2007.E.1	Nut	32
	AS.156/608	Rivet	2
	AS.161/608	Rivet	210
	AS.161/609	Rivet	12
	AS.164/306	Rivet	64
	AS.1242/I/B	Bolt	16
	AS.1242/2/C	Bolt	40
	SP.15.B	Washer	17
	SP.15.E.	Washer	32
	SP.90.E.8	Split pin	8
	CZ.49153	Outlet (Plessey)	2
	Z.49154	Angle outlet (Plessey)	2
	2CZ.84428	Free plug (Plessey)	2
	2CZ.84495	Fixed coupler socket (Plessey)	2
10H/0970059	Z.60668	Outlet gasket (Plessey)	4
10H/0970096	Z.49037	Thurst ring (Plessey)	4
10H/0970108	Z.62235	Union Gasket (Plessey)	4
10H/0970292	Z.69733	Cable clamp	4
		Sleeve, Helsyn 150 H.T.20 x $\frac{3}{4}$"	12
		Sleeve, Helsyn 150 HT.50 x 1"	4
		Sleeve, Helsyn 150 HT, 15 x $\frac{3}{4}$"	12

(b) The undermentioned materials are also required and if not available, are to be demanded on the appropriate R.N. Store Depot.

Ref.No.	Part No.	Nomenclature	Qty.
5F/9014343		P.V.C. Tube, $1\frac{1}{2}$ m/m i/d.	As required
33H/2202336		Hermetal Double Bond Cream.	As required

(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.
26FX/	F.251317	G.A. of wing structure (Port)	
26FX/	F.251318	G.A. of wing structure (Stb'd)	

Parts required:-

As listed at Para. 5. (1) (a)

7. CHANGE OF REFERENCE, PART ASSEMBLY NUMBERS

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

Ref.No.	Old Part/Assy. No.	Nomenclature	Ref. No.	New Part/Assy. No.
26FX/	F.251317	G.A. of wing structure (Port)	26FX/	F.271758
26FX/	F.251318	G.A. of wing structure (Stb'd)	26FX/	F.271759

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.

It is essential that, before the following operations are commenced, the aircraft is jacked, trestled and "trued up".

(1) Render the aircraft electrically safe (AP.4347L. Vol. 1, Book 2, Sect. 5, Chap. 1 refers).

(2) At port and starboard wings, remove the access door in bottom skin, adjacent to nose rib 'Q' and retain for refitment.

(3) Adjacent to and outboard of nose rib 'P', locate mark off and cut out hole in top skin for access door as shown in plan view and detail 'B' of Drawing No. D.265757. Remove all sharp edges.

(4) Mark off door axes and drill 4 holes to suit landings, Part No. B.270732 (Port) and B.270733 (Stb'd) Pin landings into position and check by temporary fitment of door to ensure correct seating. Remove door. (Detail 'B' of Drawing No. D.265757 refers)

(5) Drill remaining 44 holes Morse No.10 from landing into skin. C'sk. outside at 90° x .07" deep as shown at 'Detail B' of Drawing No. D.265757.

(6) Fit landings, Part No. B.270732 (Port) and B.270733 (Stb'd) together with locking lug, Part No. STD.1231/9 (1 off to each door).

(7) Adjacent to and outboard of nose rib 'Q', locate mark off and cut out hole in top skin for access door as shown in plan view and detail 'B' of Drawing No.D.265757. Remove all sharp edges.

(8) Mark off and drill 1 hole in skin on fore and aft centre line to suit landing, Part No. B.270708 (Port) and B.270709 (Stb'd).

(9) Pin landings into position and line up by temporarily fitting door. With door held in position drill skin from landing a further three or four holes and pin up. Remove door and complete drilling of skin from landings except five holes in way of pylon top anchorage angles.

(10) C'sk holes in upper surface .07" deep x 90° and finally fit landings, Part Nos. B.270708 (Port) and B.270709 (Stb'd).

(11) At top skin, locate, mark off and drill 10 holes, (Port and starboard wings), 3/32" pilot, as shown at detail 'C' of Drawing No. D.265757.

(12) At bottom skin locate and mark off positions inboard and outboard, (Port and starboard wings), four holes $1\frac{1}{4}$" dia. std. and 10 holes 3/32" pilot as shown at detail 'A' of Drawing No.D.265757, cutting $\frac{1}{2}$" dia. hole through leading edge extension skin as indicated, and if possible picking up existing rivet as shown.

(13) Locate and cut further (centre) $1\frac{1}{4}$" dia. std. holes noting the allowed variation in position to avoid existing rivets.

(14) Locate, mark off and drill 8 holes Morse No.25 (Port and starboard wings), to match plug brackets, Part No.A.206869 C'sk. outer surface .06" deep x 90° as shown at detail 'A' of Drawing No.D.265757.

(15) Locate pylon mounting angles top and bottom, inboard and outboard and pin into position.

(16) Locate webs inboard and outboard, Part Nos.B.267645 and B.267646 ensuring that they are vertical, drill mounting angles to suit and pin into position as shown in plan view and detail 'D' of Drawing No. D.265757, clamping to top and bottom angles.

(17) Feed in pylon mountings, Part Nos. B.267647, B.267648 and B.267649 B.267650, B.266829, B.266830, B.266831 and B.266832 and using $\frac{3}{4}$" dia. silver steel bars to simulate pylons, clamp bars to mountings. Using plumb lines or other means, adjust bars to obtain vertical position ensuring that limits at fore and aft datum shown on Drawing No.D.265757 are strictly adhered to. Clamp bars firmly into position, and drill through pilot holes from mountings into web and bottom angle. At top angle scribe position of webs, and on webs scribe position of mountings. Allowance is to be made for the gap between pylons and wings.

(18) Remove pylon mountings and remove top angle and web (still firmly clamped together) from wings.

(19) Scribe line for holes across top angle and web in accordance with dimension on Drawing No.B.266825-8.

(20) Locate pylon mountings to lines scribed at sub.para (17) and transfer scribed line to mounting lugs. Using the scribed line as datum spot, drill pilot holes in top lugs of mountings maintaining as near as possible the dimensions given on Drawing Nos.B.266829-30; B.266831-2, B.267647-8 and B.267649-50.

(21) Refit top angles, webs and mountings and pin into position. Re-check the attitude of the silver steel bars and transfer pilot holes at top of mountings into webs and top angles. Pin the tops of the mountings web and top angle and re-check position of silver steel bars.

(22) Remove all items from wings and open holes to size. On top and bottom angles drill for anchor nuts, Part No.A.G.S.2007.E.1 and fit as shown at detail 'D' of Drawing No.D.265757.

(23) In top and bottom skins open up pilot holes drilled at sub-paras (11) and (12) and C'sk. outer surfaces .07" deep x 90°.

(24) Fit top and bottom angles as shown in detail 'D' of Drawing No. D.265757.

(25) At inboard position (Port and starboard wings), fit web, Part No. B.267645 in conjunction with stud plate, Part No. F.265643 as shown in plan view of Drawing No.D.265757.

(26) Fit inboard pylon mountings fore and aft, Part Nos. B.267648, B.267650, Port, B.267647 and B.267649 starboard, as shown at detail 'D' of Drawing No. D.265757.

(27) At outboard positions (Port and starboard wings), fit web, Part No. B.267646, as shown in plan view of Drawing No. D.265757.

(28) Fit outboard pylon mountings fore and aft, Part Nos. B.266830, B.266832 port, B.266829 and B.266831 starboard, as shown at detail 'D' of Drawing No.D.265757.

(29) At bottom skin (P & S) fit plug bracket, Part No.A.206869 (4 off) as shown in plan view of Drawing No.D.265757.

(30) To plug brackets connect A.58 cable assy., Part No.B.265824 (Port) and A.59 cable assy. Part No.B.265825 (Stb'd). Run inboard through existing ducts and forward through duct to existing plug bracket at nose rib 'J' as shown in Plan View of Drawing No. D.265757.

(31) Remove temporary marker sleeves from cables and fit plugs and accessories as shown in 'Plan View' of Drawing No. D.265757.

(32) Modify A.1 Cable assy, Part No. B.201108 (Port Wing), as shown on Drawing No.B.265822, and re part number cable as B.266094. Connect in to A.58 cable assy.

(33) Modify A.2 cable assy. Part No. B.202700 (Stb'd. wing), as shown on Drawing No.B.265823, and re-part number cable as B.266095. Connect in to A.59 cable assy.

(34) Replace existing clips as shown with clips, Part No. STD.2045/32/22, clipping A.58 cable (Port) and A.59 cable (Stb'd) in with existing cables.

(35) At nose rib 'Q' (P & S) fit new clip, Part No.STD.2045/20/24, and clip up cable as shown in detail 'G' of Drawing No.D.265757.

(36) Fit pylons, Part Nos. C.265654 (Port) and C.265655 (Stb'd), mark off and drill shafts for split pins and fit split pins, Part No. SP.90E.8(SP.9.E.10) as shown on Drawing No.D.265777.

(37) Connect pylon cables to A.58 cable (Port) and A.59 cable (Stb'd) at plug brackets fitted at sub.para. (29).

(38) Fit new access doors, Part Nos. B.270730 (Port) and B.270731 (Stb'd) as shown in 'Plan View' of Drawing No.D.265757.

(39) Refit all other access doors removed.

(40) Re-part number the modified wings as F.271758 (Port) and F.271759 (Stb'd).

(41) Re-instate the electrical supply (AP.4347L, Vol. 1, Book 2, Sect. 5, Chap. 1 refers).

9. SPECIAL TESTS AFTER EMBODIMENT

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

Test the circuitry for continuity, insulation and correctness of function in conjunction with circuitry embodied by Mod. 1255.

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

No parts are rendered redundant by the embodiment of this modification.

12. EFFECT ON WEIGHT AND MOMENT

This modification causes a change in basic weight of + 59 lb. with a change in moment of + 3250 lb. ins. about the C.G. datum.

3. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING

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

Hunter GA Mk. 11 and PR Mk. 11 Aircraft - Armament, to make provision for carriage and release of 4 x 25 lb. or 4 x 28 lb. Practice Bombs on Gun Packs.

(Mod. No. Hunter 1211)

(Class:- B/2 to aircraft embodying Mods. 1255 or 1256)

(AB/A/20896 - 29. 9. 67)

1. INTRODUCTION

Provision is made on both the G.A. and P.R. Mk. 11 aircraft for the carriage of practice bombs to be carried on pylons situated under the gun pack. This is a M.O.D. (Naval) Staff requirement.

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

(2) This modification is applicable only if Mod. No. Hunter 1255 (Armament - Fuselage - Electrics - To introduce Practice Bomb Facility - Pre Mod. 228 Aircraft) or Mod. No. Hunter 1256 (Armament - Fuselage - Electrics - to introduce Practice Bomb Facility - Post Mod. 228 Aircraft) is embodied.

2. EMBODIMENT

This modification is to be embodied in accordance with the procedure for Class B/2 modifications laid down in N.A.M.M. (A.P.(N) 140).

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 87 man-hours (5 to strip; 75 to embody; 5 to reassemble; 2 to test).

4. DRAWINGS REQUIRED

(1) The following drawings are required and are to be demanded for Naval Stores from the Director General, Aircraft, Admiralty, London, S.W.1.

Drawing No.	Title
E. 264865-6	Bomb Package & Pylon Assy.
D. 265333	Assy. of Bomb Package (Pre H. 1009).
D. 272678	Assy. of Bomb Package (Post H. 1009).

5. PARTS AND SPECIAL TOOLS REQUIRED

(1) Parts and/or Materials

(a) The undermentioned items comprise a Set of Parts. Demands for Sets of Parts are to be forwarded to the Director of Stores, Admiralty, London, S.W.1.

Part No.	Nomenclature	Qty.
E.264865/5	Reinforcing (Port).	1
E.264865/6	Reinforcing (Port).	1
E.264865/7	Reinforcing (Port).	1
E.264865/8	Reinforcing - Fwd. (Port).	1
E 264865/9	Reinforcing - Aft (Port).	1
E.264866/1	Packing.	1
E.264866/2	Reinforcing (Stb'd) .	1
E 264866/3	Reinforcing (Stb'd).	1
E.264866/4	Reinforcing (Stb'd).	1
E.264866/5	Reinforcing - Fwd. (Stb'd).	1
E.264866/6	Reinforcing - Aft (Stb'd).	1
C.264451	Outboard pylon (Port).	1
C.264452	Outboard pylon (Stb'd).	1
C.264453	Inboard pylon (Port).	1
C.264454	Inboard pylon (Stb'd.).	1
C.265180	A.54 Cable assy.	1
B.265178	A.56 Cable assy.	1
A.265188	Bracket.	1
F.265191	Switch selector bracket.	1
F.265226	Bracket.	2
F.265227	Bracket.	2
STD.1509/23/122	Distance tube.	2
STD.1509/23/126	Distance tube.	4
STD.1509/23/128	Distance tube.	2
STD.1509/24/128	Distance tube.	6
STD.1509/24/130	Distance tube.	2
STD.1553.C.150	Bolt.	2
STD.1553.C.170	Bolt.	6
STD.1553.E.150	Bolt.	2
STD.1553.E.170	Bolt.	2
STD.1553.E.175	Bolt.	4
STD.1687/2	Saddle.	7
STD.2045/20/22	Clip.	2
STD.2045/22/22	Clip.	2
STD.2045/27/22	Clip.	2
STD.2045/32/22	Clip.	2
STD.2045/34/22	Clip	1
A.25.1B.	Bolt	2
A.25.2B.	Bolt.	3
A.25.10B.	Bolt.	2
A 25.1.C.	Bolt.	2
A.27.C.P.	Nut.	8
A.44.B.16	Screw.	4
A.G.S.2001.B.1	Nut.	7
A.G.S.2001.C.1	Nut.	8
A.G.S.2001.E.1	Nut.	8
A.G.S.2050/419	Pop rivet.	8
A.G.S.2050/424	Pop rivet.	6
A.G.S.2050/524	Pop rivet.	38
A.G.S.2050/530	Pop rivet.	24
A.G.S.2050/537	Pop rivet.	8
A.G.S.2051/519	Pop rivet.	2
AS.156/404	Rivet.	25
AS.161/505	Rivet.	4
AS.161/506	Rivet.	34
AS.161/507	Rivet.	8
AS.161/508	Rivet.	8

AS. 164/406	Rivet.	2
AS. 455/405	Rivet.	10
AS. 1242. 1. C.	Bolt.	8
AS. 2916	Serial No. plate.	2
SP. 15. B.	Washer.	7
SP. 15. C.	Washer.	18
SP. 15. E.	Washer.	8
SP. 16. B.	Washer.	4
SP. 47. C.	Spring washer.	2
	Sleeve, Helsyn 150 HT. 20 x 1 ins.	
SP. 90. H. 11	Split pin.	1 (Pre H1009).

(b) Service Supply items:-

Ref. No.	Nomenclature	Qty.
5CW/7748	Switch D. P. changeover no centre off.	1
5D/1297	Switch, auto selector Type C, No. 2.	1

(c) The undermentioned materials are also required and if not available, are to be demanded on the appropriate R. N. Store Depot.

Ref. No.	Part No.	Nomenclature	Qty.
5F/2281	HV. 3341	Strapping (Hellerman).	As reqd.
5F/2302	NY. 3342	Stud (Hellerman).	As reqd.
		P. V. C. tubing x $1\frac{1}{2}$ m/m i/d.	As reqd.
		Cord Specn. F. 35	As reqd.
33A/9428870		Varnish, Shellac Specn. BSX/18.	As reqd.

(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	
26FX/20127	E. 245550	Access panel.	
26FX/20369	E. 258847	Access panel.	
26FX/	F 264181	Access Panel	AL 46

Parts required for each of the above:-

As listed at Para. 5. Sub-para. (1) (a) and (b).

7. CHANGE OF REFERENCE, PART AND ASSEMBLY NUMBERS

This modification changes Reference, Part and Assembly Numbers as follows:-

Ref. No.	Old Part/Assy. No.	Nomenclature	Ref. No.	New Part/Assy. No.
26FX/20127	E. 245550	Access Panel (Now Bomb pack).	26FX/	D. 265333
26FX/20369	E. 258847	Access Panel (New Bomb pack).	26FX/	D. 272678

Amdt 46 26FX/ F 264181 Access Panel (New Bomb pack) 26FX/ F 290267

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. 4347, Vol. 1, Book 2, Sect. 5, Chap. 1 refers).

(2) Remove the T. A. C. A. N. access panel, Part No. E. 245550 (Pre H. 1009) or E. 258847 (Post H. 1009) (AP. 4347, Vol. 1, Book 1, Sect. 3, Chap. 1 refers). OR F. 264181 (Perk 11) Amdt 46

(3) From access panel, Part No. E. 245550 remove and retain ballast, Part No. B. 245551.

Note: This operation applies to pre Mod. H. 1009 aircraft only.

(4) Aft of former 'C' remove and retain stiffeners, Part Nos. A. 184684 (2 off) and A. 184686 (Port) A. 184687 (Stb'd.) together with Dzus fastener springs Part No. S5. 300 (4 off).

(5) Forward of former 'C' locate and remove, from Port and Stb'd. sides, barrel catch actuator, Part No. A. 184439 and retain for refitment.

(6) At former 'C' remove and discard reinforcing, Part No. D. 180531/7 and fill three redundant holes with rivets, Part No. A. G. S. 2050/530.

(7) At forward end of intermediate diaphragm, starboard side, Part No. C. 181548, locate packing, Part No. E. 264866/1 and drill diaphragm 2 holes Morse No. 30 from packing. Rivet packing into position as shown in 'View looking outb'd. Starboard side' of Drawing No. E. 264865-6.

(8) Open up 2 holes Morse No. 41 in packing to Morse No. 10 and drill through diaphragm to match as shown in 'View looking outb'd. Stb'd. side' of Drawing No. E. 264865-6.

(9) Mark off and cut back flange of stiffener, Part No. F. 181560 as shown in 'View on arrow X' of Drawing No. E. 264865-6.

(10) At port intermediate diaphragm, Part No. C. 181547, locate, mark off and drill 4 holes Morse No. 30 to match bracket, Part No. A. 265188, as shown in 'Detail K' of Drawing No. E. 264865-6.

(11) Locate bracket, Part No. A.265188, open holes to mat diaphragm and fit as shown at 'Detail K' of Drawing No. E. 264865-6

(12) At former 'A', starboard side, mark off and drill three holes Morse No. 30. Locate bracket, Part No. F. 265191 and open holes to Morse No. 30 to match former 'A'. Fit bracket, Part No. F. 265191 as shown in 'View looking aft, Stb'd. side of former A' on Drawing No. E. 264865-6.

(13) At inboard positions, port and starboard, drill out rivets as indicated and open 4 holes to 5/32" dia. Locate reinforcings, Part Nos. F. 264865/5 (Port) and F. 264866/2 (Stb'd). Drill 4 holes 5/32" dia. from former into reinforcings. Remove reinforcings, mark off 8 holes Morse No. 21, relocate reinforcings and drill former to match. Fit reinforcings as shown at 'Section EE' of Drawing No. E. 264865-6.

(14) At outboard positions, port and starboard, drill out rivets as indicated and open holes to Morse No. 21. Locate reinforcings, Part Nos. E. 264865/7 (Port) and E. 264866/4 (Stb'd.) and transfer Morse No. 21 holes from former into reinforcings. Remove reinforcings, mark off and drill 3 holes Morse No. 21. Relocate reinforcings and drill former to match reinforcings. Fit as shown at 'Section E-E' of Drawing No. E. 264865-6.

(15) At forward face of former 'C' inboard position, port and starboard, drill out rivets as indicated and open 2 holes to Morse No. 21. Locate reinforcings, Part Nos. E. 264865/6 (Port) and E. 264866/3 (Stb'd.) and drill 2 holes Morse No. 21 in reinforcings from diaphragm. Remove reinforcings, mark off and drill 8 holes Morse No. 21. Relocate reinforcings and drill diaphragm to match. Fit reinforcings, (chamfering edges as required) but omitting rivet in way of bracket, Part No. F. 265227, Locate bracket, Part No. F. 265227 and open holes to match. Using washer, Part No. SP. 15. C. as packing, fit as shown at 'Section FF' of Drawing No. E. 264865-6.

(16) At outboard positions, port and starboard on fore and aft faces, drill out existing rivets as indicated and open 5 holes to Morse No. 21. Remove and retain existing fixing bolt. Drill reinforcings, Part Nos. E. 264865/8 and /9 (Port) and E. 264866/5 and /6 (Stb'd.) to match. C'SK. hole indicated .05" deep x 120° in forward face of reinforcings Part Nos. E. 264865/8 and E. 264866/5.

(17) Open up holes in reinforcings, Part Nos. E. 264865/8 & /9 (Port) and E. 264866/5 and /6 (Stb'd.) and rivet together as shown at 'Section G-G' of Drawing No. E. 264865-6. Locate bracket, Part No. F. 265226, open holes in reinforcings and brackets to Morse No. 30 and fit bracket as shown at 'Section F-F' of Drawing No. E. 264865-6.

(18) Fit the assembly made up at sub-para (17) to former 'C' replacing the existing fixing, as shown at 'Section F-F' of Drawing No. E. 264865-6.

(19) Invert the access panel and mount on suitable trestles, picking up with fuselage attachment points on the panel. Jack and true up the panel.

(20) Determine centre line from attachment points and mark off the centre line on the access panel skin to simulate centre line of aircraft. Mark off centre lines for inboard and outboard pylons.

(21) At rear diaphragm of former 'B', inboard and outboard, port and starboard, cut slots in skin as shown in 'Section E-E', 'Section B-B' and "Section D-D", radiusing corners as shown in 'View on arrow A' of Drawing No. E. 264865-6.

(22) At front diaphragm of former 'C', inboard and outboard, port and starboard, cut slots in skin as shown in 'Section F-F', 'Section C-C' and 'Section G-G', radiusing corners as shown in 'View on arrow A' of Drawing No. E. 264865-6.

(23) Offer up inboard pylon, Part No. C. 264453 (Port), C. 264454 (Stb'd.), temporarily clamping to former 'B' and 'C'. True up vertically by a clinometer on base plate of pylon. Ensure that pylon is in line of flight by checking the pylon centre line, with a plumb line. Mark off at former 'B' position of attachment holes from pylon.

(24) Remove pylon and drill pilot holes in rear face of former 'B' in marked off positions. At front face of former mark off hole positions to dimensions shown at 'Section BB' and Section 'E-E' of Drawing No. E. 264865-6. Drill pilot holes and check for alignment.

(25) Open top hole in rear face to Morse No. 13, Hawker 'C' fit (+ .0015" - .0000") and bottom hole to $\frac{1}{4}$" dia., Hawker 'C' fit (+ .002" - .000") as shown at 'Section E-E' and 'Section B-B' of Drawing No. E. 264865-6. Open top hole in front face to 5/16" dia. std. and bottom hole to 3/8" dia. std.

(26) Fit distance tubes, Part Nos. STD. 1509/23/128 and STD. 1509/24/128 at front end, filing to required length if necessary. Fit pylons Part Nos. C. 264453 and C. 264454, clamping at former 'C'. Recheck as at sub-para. (23), noting that bolts must not be tightened.

(27) Check that pylons are lying within the tolerance of .05" either side of the centre line and mark off rear fixing positions.

(28) Remove pylons and drill pilot holes at marked off positions in front face of former 'C'. Mark off and drill pilot holes in rear face of former to dimensions given at 'Section C-C' and F-F' of Drawing No. E. 264865-6. Check for alignment. Open top hole in rear face of former to 5/16" dia., std. and bottom hole to 3/8" dia. std. Open top hole in front face to Morse No. 13, Hawker 'C' fit (+ .0015" - .0000") and bottom hole to $\frac{1}{4}$" dia. Hawker 'C' fit (+ .002" - .000").

(29) Fit distance tubes, Part Nos. STD. 1509/23/122 and STD. 1509/24/130 at aft face, cutting to length if necessary. Fit pylons and finally check the vertical and lateral positions. Tighten up all bolts.

Note: Shims of Light Alloy, Specn. L. 72 of suitable gauge may be used if necessary as shown at Sections 'B-B' and 'C-C' of Drawing No. E. 264865-6.

(30) Offer up outboard pylons, Part Nos. C. 264451 (Port), C. 264452 (Stb'd.) temporarily clamping to formers 'B' and 'C'. True up vertically by a clinometer on base plate of pylon. Ensure that pylon is in line of flight by checking the centre line of pylon with a plumb line. Mark off at former 'B' position of attachment holes from pylon.

(31) Remove pylon and drill pilot holes in rear face of former 'B in marked off positions. At front face of former mark off hole positions to dimensions given at 'Section E-E' of Drawing No. E.264865-6, drill pilot holes and check for alignment.

(32) Open holes in front face to $\frac{1}{4}$" dia. Newall 'B' fit and in rear face to 3/8" dia. std. as shown at 'Section D-D' of Drawing No. E.264865-6.

(33) Fit distance tubes, Part No. STD.1509/24/128 at aft face filing to length if necessary. Fit pylons Part Nos. C.264451 (Port), C.264452 (Stb'd)., clamping at former 'C'. Recheck as at sub-para. (30), noting that bolts must not be tightened.

(34) Check that pylons are lying within the .05" tolerance either side of the centre line and mark off rear positions.

(35) Remove the pylons and drill pilot holes at the marked off positions in front face of former 'C'. Mark off and drill pilot holes in rear face of former to dimensions given at 'Section F-F' of Drawing No. E.264865-6. Check for alignment. Open up holes in front face of former to Morse No.13, Hawker 'C' fit (+.0015" - .0000") and to 5/16" dia. std. in rear face.

(36) Fit distance tubes, Part No. STD.1509/23/126 at aft face, cutting to length if necessary. Fit pylons and finally check the vertical and lateral position. Tighten up all bolts.

Note: Shims of Light Alloy, Specn. L.72 of suitable gauge may be used if necessary as shown at Sections 'D-D' and 'G-G' of Drawing No. E.264865-6.

(37) Revert the access panel (now known as the bomb package and pylon assembly) to its natural position.

(38) At structure aft of former 'A', locate saddle, Part No. STD.1687/2 on aft face. Drill structure two holes Morse No.30 to match and fit saddle as shown on Drawing No. D 265333 (Pre Mod. 1009) D.272678 (Post Mod.1009).

(39) On former 'A' locate saddles, Part No. STD.1687/2 (2 off), drill four holes Morse No.30 to match and fit saddles as shown on Drawing No. D.265333 (Pre. Mod.1009),. D.272678 (Post Mod. 1009).

(40) At former 'C', locate saddles, Part No. STD.1687/2 (4 off), drill former 8 holes Morse No.30 and fit saddles as shown on Drawing No. D.265333 (Pre Mod.1009) D.272678 (Post Mod.1009).

(41) At brackets, Part Nos. F.265227 (inb'd.) and F.265226 (outb'd.) fitted at sub-paras. (15) and (17), connect in A.56 cable assy., Part No. B.265178 to A.60 cable assys. (part of pylon assys.). Run cable ends inboard to forward keel member, Part No. C.182081 strapping to saddles as shown. Continue the run forward to former 'A' then along aft face of former 'A' to bracket, Part No. A.265188, fitted at sub-para. (11). Strap and clip cable into position as shown on Drawing No. D.265333 (Pre Mod.1009) D.272678 (Post Mod.1009).

(42) At bracket, Part No. A. 265188 connect in A. 54 cable assy., Part No. C. 265180. Run along aft face of former 'A', strapping and clipping in with A. 56 cable assy. Run end 'C' along to stb'd. side and connect in to bomb selector switch, Ref. No. 5 CW/7748. Fit switch to bracket, Part No. F. 265191, fitted at sub-para. (12). Lock screws with Shellac varnish, Specn. BSX/18 and strap cable to saddles as shown. Run end 'B' of cable down the forward keel member to former 'C', strapping and clipping in with A. 56 cable assy. Continue run along former 'C' to starboard side and forward along outboard face of intermediate diaphragm, as shown on Drawing No. D. 265333. (Pre Mod. 1009) D. 272678 (Post Mod. 1009).

(43) Fit auto-selector switch, Ref. No. 5D/1297 as shown and connect in 'End B of A. 54 cable assy. Complete strapping and clipping of cable as shown on Drawing No. D 265333 (Pre Mod. 1009) D. 272678 (Post Mod. 1009).

(44) Refit ballast, Part No. B. 245551 to bomb and pylon assy. using existing fixings but new split pin, Part No. SP. 90. H. 11.

Note:- This operation applies to Pre. H. 1009 aircraft only.

(45) Fit serial No. plate, Part No. AS. 2916 as shown on Drawing No. D. 265333 (Pre. Mod. 1009) D. 272678 (Post Mod. 1009).

(46) Refit stiffeners, Part Nos. A. 184684 (2 off) and A. 184686 (Port), A. 184687 (Stb'd.) together with Dzus springs (4 off) removed at sub-para. (4).

(47) Refit the barrel catch actuator, Part No. A. 184439, port and starboard, removed at sub-para. (5).

(48) Re-part number the modified bomb and pylon assys. as D 265333 (Pre H. 1009 aircraft) and D. 272678 (Post H. 1009 aircraft). OR

AL 46 F 290267 (PR. MK. 11)

(49) Replace the modified T. A. C. A. N. access panel (AP. 4347, Vol. 1, Book 1, Sect. 3, Chap. 1 refers).

(50) Reinstate the electrical supply (AP. 4347, Vol. 1, Book 2, Sect. 5, Chap. 1 refers).

9. SPECIAL TESTS AFTER EMBODIMENT

When this modification has been embodied and inspected the following special test is to be carried out:-

Test the circuitry installed for insulation and continuity.

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 locally as scrap.

Part No.	Nomenclature	Qty.
D.180531/7	Reinforcing	1

12. EFFECT ON WEIGHT AND MOMENT

This modification causes a change in Basic weight of plus 44.75 lb. with a change in moment of minus 5,160 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.

A.L. No.40
(Fixed fittings for rocket launches)

AP.101B-1311-2
Leaflet No. C.5.

Hunter G.A.11 and P.R.11 Aircraft - Armament - Mainplane, to make Provision for the Operation of 22 Tube 2 inch Rocket Launcher No.3 Mk.2 from Outboard Pylons.

(Mod. No. 1292)

(Class B/2)

(AB/A/21855 - 3. 10. 67.)

1. INTRODUCTION

Following a Naval Staff requirement, provision is made in the wings for the operation of 22 tube 2 inch rocket launchers from the outboard pylons.

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

(2) This modification is essentially connected with Mod.No. Hunter 1023 PTS. B & C (Electrics revised to allow Partial Refuelling when Mod.667 (R.N.) Standard Inb'd Pylons and fitted Pt.(B) Port Wing, Pt.(C) Stb'd. Wing) and Mod.No. Hunter 1222 (Armament to revise circuitry to allow 25 Lb. Practice Bomb Facilities on Outboard Pylons, Wings) if that work is not already embodied it must be effected concurrently. concurrently.

2. EMBODIMENT

(1) This modification is to be embodied in accordance with the procedure for Class 2 modification laid down in N.A.M.M. (A.P.(N) 140).

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 56 man hours. (4 to strip; 46 to embody; 2 to re-assemble; 4 to test).

4. DRAWINGS REQUIRED

The following drawings are required and are to be demanded for Naval Stores from the Director General, Aircraft, Admiralty, London, S.W.1.

Drawing No.	Title
C.258827-8	Provision for S.N.E.B. Rockets (Wings)
B.259324	Mod. To bottom skin & reinforcing plate
B.277336	Mod. To A.14 Cable Assy.
B.277337	Mod. To A.15 Cable Assy.
B.277338	Modification to armament wiring wings.

5. PARTS AND SPECIAL TOOLS REQUIRED

The undermentioned items comprise a Set of Parts. Demands for Sets of Parts are to be forwarded to the Director of Stores, Admiralty, London, S.W.1.

Part No.	Nomenclature	Qty.
D.258850	Fairing (Port).	1
D.258851	Fairing (Stb'd.)	1
C.258852	Fairing base (Port)	1
C.258853	Fairing base (Stb'd.)	1
B.277320/1	Wiring diagram Arm. J.B.3.	1
B.277321/1	Wiring diagram Arm. J.B.5.	1
B.277322/1	Wiring diagram Arm. J.B.4.	1
B.277323/1	Wiring diagram Arm. J.B.6.	1
A.258848	Cover plate	2
F.258294	Cover plate	2
Std.2134/11/A14Y	Sleeve	2
Std.2134/11/A14Z	Sleeve	2
Std.2134/11/A15Y	Sleeve	2
Std.2134/11/A15Z	Sleeve	2
A.31.C.28	Screw	12
A.G.S.2007.C.1.	Nut	4
AS.161/609	Rivet	8
AS.164/306	Rivet	4
AS.164/308	Rivet	4
AS.1242-1-C	Bolt	20
2120	Tag (Ross Courtney)	8

(b) The following materials are also required and if not available, are to be demanded on the appropriate R.N. Stores Depot.

Ref. No.	Nomenclature	Qty
5E/3038	Cable, Unipren 6 Specn. BS.2E.21	As required
	P.V.C. Tube 1½ m/m l/dia (Comm'l.)	As required

(2) Special Tools and/or Test Equipment.

The undermentioned special tools are required and if not available are to be demanded on

Part No.	Nomenclature	Qty
T.606438	Cut and file template (port & stb'd.)	
T.606440	Drill template (port).	
T.606441	Drill template (stb'd.)	

Note:- These tools have already been provisioned by R.A.F. for embodiment of Mod. 1159 (to which they are common)

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
26 FX	F.251319	Wing structure (Port).	1
26 FX	F.251320	Wing structure (Stb'd)	1

Parts required

As listed at Para.5 (a), (1) and (c)

26 FX/10732	A.206237	Access panel.	

Parts required

A.G.S.2007.C.1.	Nut.	1
AS.164/308	Rivet.	2

7. CHANGE OF REFERENCE. PART AND ASSEMBLY NUMBERS

This modification changes Reference, Part and Assembly Numbers as follows:-

Ref. No.	Old Part/Assy. No.	Nomenclature	Ref. No.	New Part/Assy. No.
26FX/10732	A.206237	Access panel	26FX/12301	B.259073
			26FX/12302	B.259074

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.4347, Vol.1, Book 2, Sect. 5, Chap. 1 refers).

(2) Remove and discard the cover plate, Part No. F.198512 from the bottom surface of port and starboard wings adjacent to rib 'Q.1'.

(3) Offer up drill and scribe template, tool No. T.606438 to the bottom surface of the wings, port and starboard. Drill 4 holes Morse No.10 through skin and reinforcing plate and scribe out-out in skin and reinforcing as shown on Drawing No. B.259324.

(4) Cut and file the skin and reinforcing on the bottom surface of the wings, port and starboard, and fit rivets about the cut-out as shown on Drawing No. B.259324.

(5) Fit new cover plate, Part No. F.258294, to the bottom surface of the wings, port and starboard.

(6) Remove door and locking mechanism for outboard pylon, Part No. A. 207094 and cover plate, Part No. A.206421, from the top surface of the wings, port and starboard, as shown on Drawing No. C.258827-8, these items becoming redundant.

(7) Fit new cover plates, Port No. A.258848 to the top surface of the wings, port and starboard, as shown on Drawing No. C.255827-8.

(8) Offer up drill template, tool No. T.606440, to top surface of the port wing and tool No. T.606441, to the top surface of the starboard wing. Drill 2 holes Morse No.10, open up existing hole in reinforcing plate to 2.10" dia. Drill 3/16" dia. pilot hole for ¾" dia. hole. Mark off and cut away inner and outer plates of door, Part No. A.206237, as shown on Drawing No. C.258827-8, port and starboard.

(9) Remove drill templates from port and starboard wings.

(10) Remove doors, Part No. A.206237 from wings.

(11) Open up 3/16" dia. pilot hole to ¾" dia. in the top skin and reinforcing, port and starboard wings.

(12) Fit anchor nuts, Part No. A.G.S.2007.C.1, to the door and top surface of the wings, port and starboard, as shown on Drawing No. C.258827-8.

(13) Re-part number the doors as B.259073 (Port) and B.259074 (Starboard) and re-fit to top surfaces of the wings.

(14) Offer up base plates for fairings, Part Nos. C.258852 (Port) and C.258853 (Starboard), drill 6 holes Morse No. 10 in base plate to match holes in wings, port and starboard, and fit base plates to top surfaces of wings as shown on Drawing No. C. 258827-8.

(15) Fit fairings, Part Nos. D.258850 (Port) and D.258851 (Starboard) to the base plates on port and starboard wings as shown on Drawing No. C.258827-8.

(16) At Port wing locate A.15 cable assy., Part No. B.207002 connecting Arm. J.B.3 and Arm. J.B.4. Run two new leads, lashing to existing cable and form ends as shown on Drawing No. B.277337. Mark up cable "+ Mod. 1292".

(17) At Arm. J.B.3. and Arm. J.B.4. modify wiring as instructed on Drawing No. B.277338.

(18) Remove existing wiring diagrams from Arm. J.B.3. and Arm. J.B.4. and fit new wiring diagrams, Part Nos. B.277320/1 and B.277322/1 respectively.

(19) At starboard wing locate A.14 cable assy., Part No. B.207001, connecting Arm. J.B.5. to Arm. J.B.6, Run two new leads, lashing in with existing cable, and form ends as shown on Drawing No. B.277336. Mark up cable "+ Mod. 1292".

(20) At Arm. J.B.5. and Arm. J.B.6. modify wiring as instructed on Drawing No. B.277338.

(21) Remove existing wiring diagrams from Arm. J.B.5. and Arm. J.B.6. and fit new wiring diagrams, Part Nos. B.277321/1 and B.277323/1 respectively.

(22) Replace any access doors removed.

(23) Record the embodiment of this modification on the port and starboard wing modification plates.

(24) Reinstate the electrical supply (AP.4347, Vol.1, Book.2, Sect. 5, Chap. 1 refers).

9. SPECIAL TESTS AFTER EMBODIMENT

Test the electrical circuit affected for continuity and correctness of function.

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 items rendered redundant by the embodiment of this modification are to be disposed of locally as scrap.

Part No.	Nomenclature	Qty
A.206421	Cover plate	2
A.207094	Assy. of locking mechanism for outboard pylon.	2
F.198512	Cover plate (Outer)	2

12. EFFECT ON WEIGHT AND MOMENT

This modification causes a change in Basic Weight of plus 2.75 lb. with a change in moment of plus 185 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.

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A.L. No. 42
(GGS Camera Recorder)

AP.101B-1311-2
Leaflet No. C.6.

Hunter G.A.11 and P.R.11 Aircraft - Armament - To Provide G.G.S. Camera Recorder Facilities when "BOMBS" is selected.

(Mod.No. Hunter 1308)

(Class B/2)

(AB/A/21258. - 3.10.67.)

1. INTRODUCTION

Following upon a Naval Staff requirement, link wires are introduced so that when 'Bombs' is selected camera facilities are provided. The leaflet is written on the assumption that Mod.H.1256 is embodied or that it will be embodied concurrently.

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

2. EMBODIMENT

(1) This modification is to be embodied in accordance with the procedure for Class 2 modification laid down in N.A.M.M. (A.P.(N) 140).

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 7 man hours.
($1\frac{1}{2}$ to strip; $2\frac{1}{2}$ to embody; 2 to reassemble; 1 to test)

4. DRAWINGS REQUIRED

The following drawing is required and is to be demanded for Naval Stores from the Director General, Aircraft, Admiralty, London S.W.1.

Drawing No.	Title
C.278903	Alterations - G.G.S. Cam.Recorder Facilities with Bombs.

5. PARTS AND SPECIAL TOOLS REQUIRED

(1) Parts and/or Materials

(a) The undermentioned items comprise a Set of Parts. Demands for Set of Parts are to be forwarded to the Director of Stores, Admiralty, London, S.W.1.

Part No.	Nomenclature	Qty
C.278908/1	Wiring diagram Leg Panel (R.P.a/cft)	1
C.278909/1	Wiring diagram Leg panel (Non R.P.a/cft)	1
C.278910/1	Wiring diagram Supply panel (R.P.a/cft)	1
C.278911/1	Wiring diagram Supply panel (P.R.Mk.11 -R.P. a/cft)	1
C.278912/1	Wiring diagram Supply panel (Non R.P.a/cft)	1
STD.2134/11/B/RP. SW.6.	Sleeve	1
STD.2135/11/B/RP. SW.4.	Sleeve	1

(b) The undermentioned material is also required and if not available is to be demanded on the appropriate R.N. Store Depot Perth.

Ref.No.	Nomenclature	Qty
5E/3038	Cable, Unipren 6	8 ins
	Paint, White, L.P.P.V.C. Specn.S.9.	As reqd.

6. MODIFICATION OF SPARES

No spares are affected by the embodiment of this modification.

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.4347 Vol.1, Book 2, Sect. 5, Chap 1 refers).

(2) At bomb selector panel situated at coaming, port side, disconnect A.12 cable assy. from the Bomb/R.P. master switch.

(3) Remove existing termination sleeve from wire coded 'A.12 A.A.' and fit link wire as shown at both 'Detail A' and 'Detail B' of Drawing No. C.278903. Fit termination sleeves as shown.

(4) On G.A. Mk.11 R.P. aircraft and P.R. Mk.11 aircraft, re-part number cable as C.278971 as shown at 'Detail A' of Drawing No. C.278903.

(5) On G.A. Mk.11 Non R.P. aircraft, re-part number cable as C.278907 as shown at 'Detail B' of Drawing No. C.278903.

(6) Reconnect A.12 cable assy. to switch as previously but connecting the new link wire to terminal 6 of the switch.

(7) On G.A. Mk.11 R.P. aircraft and P.R. Mk.11 aircraft, at leg panel modify wiring as shown. Remove existing wiring diagram and fit new diagram, Part No. C.278908/1 as shown on Drawing No. C.278903.

(8) Re-part number the modified leg panel assy. as D.278904.

(9) On G.A. Mk.11 Non R.P. aircraft (i.e. Pre H.229), modify leg panel wiring as shown. Remove existing wiring diagram and fit new diagram, Part No. C.278909/1 as shown on Drawing No. C.278903.

(10) Re-part number the modified leg panel assy. as D.278905.

(11) Remove the radio bay access door.

(12) Raise the generator control panel to gain access to the supply panel.

(13) At supply panel modify wiring. Remove existing wiring diagram and fit new diagram, Part No. C.278910/1 (G.A.Mk.11 R.P. aircraft), C.278911/1 (P.R. Mk.11 aircraft), C.278912/1 (G.A. Mk. 11 Non R.P. aircraft).

(14) Close the generator control panel.

(15) Replace the radio bay access door.

(16) Reinstate the electrical supply.

9. SPECIAL TESTS AFTER EMBODIMENT

No special tests are required after the embodiment of this modification.

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 locally as scrap.

Nomenclature	Qty
Wiring diagram - Leg panel (G.A. Mk.11 Non R.P.)	1
Wiring diagram - Leg panel (G.A. Mk.11 R.P. & P.R. Mk.11)	1
Wiring diagram - Supply panel (G.A. Mk.11 Non R.P.)	1
Wiring diagram - Supply panel (G.A. Mk.11 R.P.)	1
Wiring diagram - Supply panel (P.R. Mk.11)	1

12. EFFECT ON WEIGHT AND MOMENT

This modification has no effect on weight or moment.

13. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING

This modification has the following effect on operation and handling.

When 'Bombs' is selected the camera recorder is activated and continues to operate until the 'Bombs/RP' push button is pressed.

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A.L. No. 48
(Inboard pylon - 4 pole plocket)

A.P.101B-1309-2.
Leaflet No. C.7.

HUNTER G.A. Mk.11 HUNTER P.R. MK.11. Inboard Pylons, PT. Nos. E.229133(P). E.229134(S), E.251959(P), E.251960(S), To revise earthing Facilities and to introduce 4 Pole Plocket.

(Mod. No. Hunter 1294)

(Class B/2)

(AB/A/22007. 27.2.68.)

1. INTRODUCTION

This modification introduces additional earthing facilities on the inboard pylon to reduce the danger of inadvertent firing of the E.R.U. cartridge due to induced current in the firing lines. At the same time, following a request by MOD, a 4 pole plocket replaces the existing plocket on pylons carrying the 2 inch rocket launcher.

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

(2) This modification is essentially connected with Mod. No. Hunter 1079 (INBOARD PYLONS, ELECTRICS REVISED TO ISOLATE RELEASE UNIT WIRING) 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 N.A.M.M. (A.P.(N) 140).

3. APPROXIMATE TIME REQUIRED FOR EMBODIMENT

The work will take approximately 17 man hours per pair of pylons. (3 to strip; 8 to embody; 3 to reassemble; 3 to test).

4. DRAWINGS REQUIRED

The following drawing is required and is to be demanded for Naval Stores from the Director General, Aircraft, Ministry of Defence, London, S.W.6.

Drawing No.	Title
D.276916	INB'D PYLONS - ROCKET BATTERY PLOCKETS & E.R.U. ETH. REVISED.

5. PARTS AND SPECIAL TOOLS REQUIRED

(1) Parts and/or Materials.

(a) The undermentioned items comprise a Set of Parts. Demands for Sets of Parts are to be forwarded to the Director of Stores (Naval), Ministry of Defence, London, S.W.6.

Ref. No.	Part No.	Nomenclature	Qty per aircraft
	B.276895/1	Wiring diagram (Port)	1
	B.276896/1	Wiring diagram (Stbd)	1
	B.276906	PY.19 cable assy	2
	F.260600	Packing	4
	STD.2134/11/C.REL.21	Sleeve	2
	STD.2134/11/C.REL.23	Sleeve	2
	STD.2134/11/D.REL.21	Sleeve	2
	STD.2134/11/D.REL.23	Sleeve	2
	A.25.15.C	Bolt	4
	A.45.A.8.	Screw	4
	A.G.S.2008.C.1.	Nut	4
	A.S.164/305	Rivet) Alternative	8
	A.G.S.2051/321	Pop rivet)	
	2120	Q.R. tag (Ross Courtney)	4
		Sleeve Helsyn 150 HT 15 x ¾ ins	16
		Sleeve Helsyn 150 HT 20 x ¾ ins	4
5X/1004085	Z.50213	Commencing link	2
10F/0530473		Relay, type SM5A-M4	4
10F/09114121	STC.LP.736720	Holder base	4

(b) Service Supply items

None

(c) The following materials are also required and if not available, are to be demanded on the appropriate RN Store Depot.

Ref. No.	Part No.	Nomenclature	Qty
5E/3038		Unipren 6, Specn. BS.2E.21	As required
5E/3400		Equipment wire, Specn, D.E.F. 12A, Type 2, 14/0076 (Black)	As required
33A/9428870		Varnish, Shellac Specn. BSX/18	As required
		P.V.C. Tube 1½ m/m i/d (Comml)	As required

6. MODIFICATION OF SPARES

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

Ref. No.	Part No.	Nomenclature	Qty
26FX/	E.229133	G.A. Inboard pylon (Port) MK's 8,8B, 8C,GA.11, PR.11	
26FX/	E.229134	G.A. Inboard Pylon (Stbd) MK's 8,8B, 8C, GA.11, PR.11	
26FX/	E.251959	G.A. Inboard pylon (Port) GA.11, PRE.228	
26FX/	E.251960	G.A. Inboard pylon (Stbd) GA.11, PRE.228	

Parts required for each of the above:

As listed at Para. 5(a) and (c)

7. CHANGE OF REFERENCE, PART AND ASSEMBLY NUMBERS

There are no changes of Reference, Part and 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 re-connected 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) At port and starboard pylons, remove and retain the E.R.U. Remove and discard PY.19 cable assy. Part No. B.232986.

(2) Remove the rear access door.

(3) Disconnect and remove PY.17 cable assy. Part No. B.233876 complete with relays.

(4) From PY.17 cable assy. disconnect, remove and discard relays, type SM5AH, Ref. No. 10F/0119886 (2 off per cable). Remove and retain mounting bar, Part No. F.233446.

(5) At mounting bar, Part No. F.233446, Mark out, cut and file recess. Mark off, drill and tap 2 holes 6BA, as shown at 'Detail B' of Drawing No. D.276916.

(6) Connect, dismantled PY.17 cable assy to new base, Part No. STC.LP.736720, Ref. No. 10H/09114121 as shown in wiring diagram. Cut and connect in link wires as indicated. Cut and connect in new Unipren 6 wires, form ends using tag, Part No. 2120 (Ross Courtney - 2 off) and sleeves coded "C.REL.21" and "D.REL.21" as shown. Remove sleeves codes "C.REL.22" and "D.REL.22" and replace with sleeves coded "C.REL.23" and "D.REL.23" as shown on drawing No. D.276916.
Note: Ensure that wiring to bases is carried out to form Port and Starboard cables.

(7) Fit relay, type SM5A-M4, Ref. No. 10F/0530473 together with modified mounting bar, Part No. F.233446, to cables, lashing cables to mounting bars as shown on Drawing No. D.276916. Re-part modified PY.17 cable as B.276910 (Port) and B.276911 (Stbd). Add "Port" and "Stbd" to cable No. sleeves as indicated.

(8) At TB.1, remove and discard 4-way link between terminals 17 and 20 and fit 5-way commoning link, Part No.Z.50213, Ref. No. 5X/1004085, between terminals 16 and 20. Modify wiring at T.B.1 as shown on drawing No. D.276916.

(9) At channel, Part No. C.202804, remove 2 existing anchor nuts. Mark off and drill 2 holes Morse No. 10 and 4 holes Morse No. 40, C'Sk. .03" deep x 120°. Fit new anchor nuts, Part No. A.G.S.2008.C.1 using rivets, Part No. AS.164-305 or pop rivets, Part No. A.G.S.2051/321,

as shown at 'Detail A' of Drawing No. D.276916.
Note: If pop rivets are used, holes in anchor nuts are to be opened up to 7/64" dia.

(10) Fit modified PY.17 cable assy, Part No. B.276910 (Port) and B.276911 (Stbd) to pylon using additional packing washers, Part No. F.260600 (2 off) and new bolts, Part No. A.25.15.C as shown on Drawing No. D.276916.

(11) Pass cable ends under buffers and connect into T.B.1 and T.B.2 as instructed plugging into safety break as shown on Drawing No. D.276916.

(12) Remove existing wiring diagrams and fit new diagrams, Part No. B.276895/1 (Port), B.276896/1 (Stbd).

(13) Fit new PY.19 cable assy. Part No.B.276906 and replace the E.R.U.

(14) Replace the rear access door.

(15) Record the embodiment of this modification on the port and starboard inboard pylon modification plates.

9. SPECIAL TESTS AFTER EMBODIMENT

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

Test the revised circuitry for continuity and correctness of function.

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: RN Store Depot, Copenacre.

Ref. No.	Part No.	Nomenclature	Qty per Pylon
10F/0119886		Relay, Type SM5AH	2

(2) The undermentioned items rendered redundant by the embodiment of this modification are to be disposed of locally as scrap.

Ref. No.	Part No.	Nomenclature	Qty per Pylon
	B.232986	PY.19 Cable assy.	1
		Wiring diagram (Port)	1
		Wiring diagram (Stbd)	1

12. EFFECT ON WEIGHT AND MOMENT

This modification has no effect on weight or moment.

13. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING

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

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M.193
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A. L. No. 49
(Outboard pylons)

A. P. 101B-1309-2
Leaflet No. C.8.

Hunter G.A. MK 11 and Hunter P.R. MK 11 - Outboard Pylons Pt. Nos. D.273723 (Port) and D.273724 (Stb'd) introduced in lieu and by conversion of Pt. Nos. D.264628(Port) and D.264629 (Stb'd) for carriage of 22 Tube 2 inch Rocket Launcher No. 3 Mk.2.

(Mod. No. Hunter 1293)

(Class B/2 by return of pylons to HSA Kingston)

(AB/A/21990. - 28.2.68.)

1. INTRODUCTION

Following a Naval Staff requirement, this modification introduces outboard pylons affording the facility for carriage of 22 tube 2 inch rocket launcher No. 3MK2.

(1) This modification does not supersede, partially supersede, satisfy the work called for by any modification, Naval Command modification, STI or SI.

2. EFFECT ON WEIGHT AND MOMENT

This modification causes a change in the Operational Load of plus 21.75 lb with a change in moment of plus 1571 lb. in. about the C.G. datum.

3. EFFECT ON AIRCRAFT OR EQUIPMENT OPERATION AND HANDLING

Operation is affected in that the pylons are now rendered capable of carrying a 22 tube 2 in. rocket launcher No. 3 Mk. 2.

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