TRADE	2	SP			+	51		CING			(ES	-		Ał	7.101B- Se	-1000-5 ection	5A3 1			E	4
-	-			ADAR	-			LIGHT	Т			_		_	(1st	Editio	n)			ACT	1
SHEET	1 1	OF 9	1	SHEET/S		1 1A	A 2	2A	3	4	5	6	AL N			TE		:		TIME	+
TITLE	IFF	Mk 10	0 (5	SIF) In	ıst	allat	tior	1					AC N			RECORD DATE					
Safety the wor	and Se	rvicin	g No	tes are t	to k	oe comp	plied	l wit	h th	roug	hout	-	1)	(2)	(3) DETAI	(4)	(5)	EST	1
Special Pumps Watch Troll Test	Tools s, Pre les, S ley (R Kit A	and Exessuri Stop (Radio	quipm izir GS 1 Ser 1 Ty	ment	g) :	Туре)36	daw da da da da da	AJMI SSLE Like			MAN HOURS	TRADESMAN		FECT OI	E 000	F. (ZUB NU	N.C.O. INITIALS		
				AIR	RA	DAR			2 114	776						W 4=					1
1.	Prep	arati	ion													onia E po					
1.1	TR u	nit.			 五 5	nsure lbf/	pr in2	essi	ari	zed	to										
1.2	FR c 4345	cover	Тур)e	wi co	lace Frame ith s over orrec	≥ 59 spid is	er , seat	nd s	sec	ure	1	14. 16.		in er Except Branco d Branco d La Gal			10		RE CARDS	
1.3	Airc: aeria swit	al te	est		Se	et to	, 'L	OWE	₹.			e de la companya de l			. A fix					D PROCEDURE	
1.4	Co-ar conne	xial ector	r.		Lo	nterc ow Le n soc 345•	evel	RF					14		ero.					ASSOCIATED	
1.5	and o	rnal d.c. lies.				nsure witch			oted	l ai	nd			sod d			O L				
1.6		Maste swite		m/	Se	et to							60 F)	·v rid	San Jan						
1.7		83. Funct swite		ı		et to minu														ES	+
	(c) I	Mode switc Mode switc	ch.	}	Se	et to	, 01	UT†.	onti Links				r)	0000	oe.En		NK			ASSOCIATED TRADES	-
1.8	PT 12	2004				i) ii)	d.	onnec c. s ritch	supp	oly.										ASSC	-
																				NO	+
1	4-4	1/53				5								Cont						SP	1

CHAP SP NO	2	AIR RADAR CONTINUED	SERVICING PROCEDURES		AP	101B-1000-5A3 Section 1	F	
SHEET	103 2	CONTINUED	LIGHTNING		Bea	(1st Edition)		Marin.
-				AC I	NO . :	DATE .		
Safety	and s	Servicing Notes are tailed on this card.	to be complied with throughout		SE	RVICING RECORI)	
		carroa on this card.	reaction of the second	(1)	(2)	(3)	(4)	(5
		AI	R RADAR				1) 	
1.	Pre	paration (Cont	1)		-	ente un matemo		
1.9	7 6	12004.						
III P		Meterselector	Set to 'TRANSPONDER'.		-11			104
		Set Sig Gen	(i) Adjust for					
		Frequency	maximum meter				Towns and	
		Control.	indication.	100	de per		ALA:	101.0
			(ii) Note Sig Gen Freq	-	OT-2			100
	(c)	Meter	control setting. Set to 'LEVEL'.				-	
	(0)	selector.	set to 'LEVEL'.	A.FL. N	ITA			
	(d)	Set Sig Gen	Adjust for meter				9	
		Level control	indication of 'SET LEVEL'					
	(e)	Power and	Set fully anti-clockwise					
		Sensitivity						
	(f)	controls. Brilliance	Adinat for 3 3-					
	(-)	and Focus	Adjust for clearly defined trace.					
		controls.	derined trace.	0				
	(g)	'X' and 'Y'	Set to position start					
		Shift	of trace at junction	e i				
		controls.	of horizontal and first					
	, ,		vertical graticule line.				91	
	(h)	Timebase	Set to '1'.					
		Duration switch.					in 1	
	(j)	New Although to the control	Adjust until trace just					
	(0)	Amplitude	reaches the last					
		control.	graticule line.	0			cii -	
	(k)	Meter selector	Set to 'TRANSPONDER'	8			7.0	
. 10	PT '	12004 selftest.				- Assistan	100	
	(a)	Mode selector	Set to 'TRANSPONDER 1'.	0.11		ou continued B		
	(b)	Self Test	(i) Depress and check			Les later 13	TALL.	
		switch.	leading edge of				INV.	
			second pulse coincides with			no torul (ь).	
			Mode 1 marker on					
			lower scale.			SeekeW (
			(ii) Release.	-		the Phone		
	(c)	Mode selector.	Set to 'TRANSPONDER 2'.	1.8		DESIGNATION OF		
		Self Test	(i) Depress and check			A STATE OF THE STA		
		switch.	leading edge of	7		LOLG:		
			second pulse					
			coincides with Mode 2 marker on				100	
			lower scale.					
			(ii) Release.	7				
D	W EO	011/53A			inued			_

CHAP	2	AIR RADAR	S	ERVICING PROCEDURES		AP	101B-1000-5A3 H	ק	
SP NO	103	CONTINUED		LIGHTNING			Section 1 (1st Edition)		
SHEET	3				AC 1	10 . i	DATE .		
		Servicing Notes are	to be comp	lied with throughout	1	SE	RVICING RECORD		ROSMANIA
one wor	I del				(1)	(2)	(3)	(4)	(5
			R RADAR						
1.	Pre	paration (Conto	1)		1193	ELDI	of nextend		- 4
1.10		12004 self t (Contd)			j o		etrio erelli ell ur beio:		
	(e) (f)	Mode selector Self Test switch.	Set to (i)	'TRANSPONDER 3'. Depress and check leading edge of second pulse coincides with with Mode 3 marker on lower scale. Release.		required to the second	Ab E sould so knownood no known the to make solve to make solve to bringense to ke avent to the solve solvests		
							, in a 1911		
2.	Rec	eiver Sensitivi	t.v	Set lark much (3)			MOST P		
		12004.	<u>v.//</u>	acted a Edward			Section 1		
2.1	(a) (b)	Mode selector Sensitivity control.	(i) (ii)	'TRANSPONDER 1'. Set dial indication to '62' Ensure pulse has no line across base.					
			(iii)	Set dial			- 1962 19		
			(iv)	indication to '65' Ensure pulse has a line across base			naszona Pi międzki		
				or that there is					
			(v)	no pulse present. Adjust until a faint line just			- Cardina		
			(vi)	appears across base of pulse. Note dial					
	(-)	C-+ C:	(.)	indication.			- Yamati 141		
	(6)	Set Sig Gen Freq control.	(i)	Vary for maximum response of pulse on display and minimum paint			70, b2001		
			(ii)	across base line.					
			(11)	Note indication on Sig Gen counter					
	(d)	Sensitivity control.	(i)	Adjust slowly until a faint line just appears across			retel (s sereins		
			(ii)	base of pulse. Note dial indication.					
T)3.5 -	52011	154				tinue			

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CHAP	2	AIR RADAR		SERVICING PROCEDURES		AP		000-5A3	F	ma) -
SP NO	103	CONTINUED		LIGHTNING				ction 1 dition)	1 (9	d Mai
SHEET		The second of the			AC]			DATE .		
the wo:	and S rk det	ervicing Notes are ailed on this card	to be comp	olied with throughout	1	_		G RECORD	-	E En
		АТ	D DADAD	The state of the s	(1)	(2)		(3)	(4)	(5)
0			R RADAR		1118					
2.		eiver Sensitiv					401			w.f.
NB	not and tha fre cal Sub Ope tra	ed in Sub-item 2.1(d) Operat n 3 dB, or whe quencies, as c ibration chart -items 1.12(b) ration (ii) is	s 2.1(b) ion (ii) re the d alculate , from s Operati greater	ifference in d from the ettings noted in on (ii) and 2.1(c)	W.F	Ago.	ae p Julens ep o e(l' 1 . net		9	
2.2		883 Function tch.	Set to	'LOW SENS'.						
2.3	Sen	12004 sitivity trol.	(i) (ii)	Turn fully anti-clockwise until a faint line just appears across base of pulses. Check dial indication exceeds 40.	e i	3.00 100 17 i				
2.4	Fun	6883 ction tch.	Set to	'NORMAL SENS'.						
2.5	Sens	12004 sitivity trol.		lly anti-clo c kwise						
3.	Powe	er Output		of which drates						
3.1	-	12004		randor tradition						
	(a)	Meter Power control.	(i)	'POWER'. Adjust for meter						
			(iii)							
	(c)	Meter selector.		*LEVEL*.		vit s		in the second		
				indiantion.						
RM	5201	1/54A			Con	tinued	L A	18 1 FH		

SERIEN 103 CONTINUED LIGHTNING Section 1 (1st Exition) ACRO	CHAP	2	AIR RADAR	SERVICING PROCEDURES		AP	101B-1000-5A	3 F	
Safety and Servicing Botes are to be complied with throughout the work detailed on this card. 4. Coding NB If the coder used is American (KY95A) operation of I/P and Emergency facilities should present the required number of bracket pulses plus at least the first bracket pulses of an additional train. 4.1 PT 12004 (a) Timebase Set to '2'. switch. (b) Timebase Adjust to position end of Amplitude. control. graticule line. 4.2 SIF control Set as in column 1 in the following table and check the pulses listed in column 2 are present on PT 12004 with no spurious pulses. COLUMN 1 COLUMN 2 Outer (A) 1 A1 A1 A2 A4 A4 A1, A2 A4 A2, A4 A1, A4 A2, A4 A1, A4 A2, A4 A1, A4 A2, A4 A1, A2 A4 A2, A4 A1, A2 A4 A1, A2 A1, A2 A2 A1, BP	SP NO	103	CONTINUED	LIGHTNING	The same of		Section	1	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card. AIR RADAR 4. Coding NB If the coder used is American (KY95A) operation of I/P and Emergency facilities should present the required number of bracket pulses plus at least the first bracket pulses of an additional train. 4.1 PT 12004 (a) Timebase Set to '2'. switch. (b) Timebase Adjust to position end of Amplitude. craze on last vertical graticule line. 4.2 SIF control Set as in column 1 in the following table and check the pulses listed in column 2 are present on PT 12004 with no spurious pulses. COLUMN 1 COLUMN 2 Outer (A) 1 A1 A1 A2 A4 A4 A2, A4 A1, A2 A4 A2, A4 A1, A4 A2, A4 Bracket pulses only. Inner (B) 1 B1 B2 B1, B2 B1, B2 B1, B2 Bracket pulses only. Mode selector and "TRANSPONDER 2' and "TRANSPONDER 2' and "TRANSPONDER 2'. Mode selector. SERVICING REDORD (1) (2) (3) (4) (4) (4) (5) (4) (6) (3) (4) (6) (4) (6) (4) (7) (2) (3) (4) (4) (6) (4) (6) (7) (4) (6) (7) (6) (7) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	SHEET	5			AC I				
AIR RADAR 4. Coding NB If the coder used is American (KY95A) operation of I/P and Emergency facilities should present the required number of bracket pulses of an additional train. 4.1 PP 12004 (a) Timebase Set to '2'. (b) Timebase Adjust to position end of trace on last vertical graticule line. 4.2 SIF control. Set as in column 1 in the following table and check the pulses listed in column 2 are present on FT 12004 with no spurious pulses. COLUMN 1 COLUMN 2 Outer (A) 1 A1 2 A2 3 A1, A2 4 A4 5 A1, A2 4 A4 6 A2, A4 7 A1, A2, A4 Bracket pulses only. Inner (B) 1 B1 2 B1, B2 B1, B2 B1, B2 Bracket pulses only. 4.3 PT 12004 Set to 'TRANSPONDER 2' and 'TRANSPONDER 2' and 'MODE 2'. Mode selector. Set to 'TRANSPONDER 2'. Mode selector. Set to 'TRANSPONDER 2'.	Safety	and S	ervicing Notes are	to be complied with throughout	10	Witness Street, Square, or other Persons.			•
AIR RADAR 4. Coding NB If the coder used is American (KY95A) operation of I/P and Emergency facilities should present the required number of bracket pulses plus at least the first bracket pulses of an additional train. 4.1 PT 12004 (a) Timebase Set to '2'. (b) Timebase Amplitude. trace on last vertical graticule line. 4.2 SIF control Set as in column 1 in the following table and check the pulses listed in column 2 are present on PT 12004 with no spurious pulses. COLUMN 1 COLUMN 2 Outer (A) 1 A1 A2 A4	the wo	rk det	ailed on this care		(1)	(2)	(3)	(4)	(5)
NB If the coder used is American (KY95A) operation of I/P and Emergency facilities should present the required number of bracket pulses plus at least the first bracket pulses of an additional train. 4.1 PT 12004 (a) Timebase Set to '2'. (b) Timebase Adjust to position end of Amplitude. control. graticule line. 4.2 SIF control graticule line. 4.2 SIF control switches. COLUMN 1 COLUMN 2 are present on PT 12004 with no spurious pulses. COLUMN 1 COLUMN 2 Outer (A) 1 A1 A2 A4 A1, A2 A4 A1, A2, A4 Bracket pulses only. Inner (B) 1 B1 2 B2 3 B1, B2 Bracket pulses only. 4.3 PT 12004 Mode selector Mode selector. Set to 'TRANSPONDER 2' and 'TRANSPONDER 2'. Set to 'TRANSPONDER 2'. Set to 'TRANSPONDER 2'.			AIR	RADAR	1				,,,,
operation of I/P and Emergency facilities should present the required number of bracket pulses plus at least the first bracket pulses of an additional train. 4.1 PT 12004 (a) Timebase Set to '2'.	4.	Cod	ing			10			
(a) Timebase switch. (b) Timebase Adjust to position end of trace on last vertical graticule line. 4.2 SIF control Set as in column 1 in the following table and check the pulses listed in column 2 are present on PT 12004 with no spurious pulses. COLUMN 1 COLUMN 2 Outer (A) 1 A1 2 A2 3 A1, A2 4 A4, A2, A4 5 A2, A4 Bracket pulses only. Inner (B) 1 B1 B2 B1, B2 B1, B2 Bracket pulses only. 4.3 PT 12004 Mode selector 4.4 CU 6883 switch. Set to 'TRANSPONDER 2' and 'TRANSPONDER 2' and 'TRANSPONDER 2'. Set to 'TRANSPONDER 2'.	NB	ope sho bra	ration of I/P uld present tl cket pulses pi	and Emergency facilities ne required number of lus at least the first			Athan gold Sout whether his		344
(b) Timebase Amplitude. control. 4.2 SIF control unit Mode 1 switches. COLUMN 1 COLUMN 2 Outer (A) 1 A1 A2 A1, A2 A4, A2, A4 A1, A2, A4 A1, A2, A4 Bracket pulses only. Inner (B) 1 B1 B2 B2	4.1		Timebase	Set to '2'.					
unit Mode 1 switches. the following table and check the pulses listed in column 2 are present on PT 12004 with no spurious pulses. COLUMN 1 COLUMN 2 Outer (A) 1 A1 A2 A4 A4 A4 A1, A2 A4 A1, A2, A4 A1, A2, A4 Bracket pulses only. Inner (B) 1 B1 B2 B1, B2 Bracket pulses only. 4.3 PT 12004 Mode selector Set to 'TRANSPONDER 2' and 'TRANSPONDER 3' in turn and check reply pulses are not present. 4.4 CU 6883 switch. 4.5 PT 12004 Mode selector. Set to 'TRANSPONDER 2'.		(b)	Timebase Amplitude.	trace on last vertical					
Outer (A) 1 2 A1 A2 A1, A2 A4 A1, A4 A2, A4 A1, A2, A4 Bracket pulses only. Inner (B) 1 B1 B2 B2 B1, B2 Bracket pulses only. 4.3 PT 12004 Mode selector Set to 'TRANSPONDER 2' and 'TRANSPONDER 3' in turn and check reply pulses are not present. 4.4 CU 6883 switch. 4.5 PT 12004 Mode selector. Set to 'TRANSPONDER 2'. Set to 'MODE 2'.	4.2	uni	t Mode 1	the following table and check the pulses listed in column 2 are present on PT 12004 with no					
A2 A1, A2 A4 A1, A4 A2, A4 A1, A2, A4 A1, A2, A4 Bracket pulses only. Inner (B) 1 B1 B2 B2 B1, B2 Bracket pulses only. 4.3 PT 12004 Mode selector Set to 'TRANSPONDER 2' and 'TRANSPONDER 3' in turn and check reply pulses are not present. 4.4 CU 6883 switch. 4.5 PT 12004 Mode selector. Set to 'TRANSPONDER 2'.			COLUMN 1	COLUMN 2					
Mode selector and 'TRANSPONDER 3' in turn and check reply pulses are not present. 4.4 CU 6883 Set to 'MODE 2'. switch. 4.5 PT 12004 Set to 'TRANSPONDER 2'. Mode selector.			2 3 4 5 6 7 0 Inner (B) 1 2	A2 A1, A2 A4 A1, A4 A2, A4 A1, A2, A4 Bracket pulses only. B1 B2 B1, B2 Bracket pulses					
switch. 4.5 PT 12004 Set to 'TRANSPONDER 2'. Mode selector.	4•3			and 'TRANSPONDER 3' in turn and check reply					
Mode selector.	4.4					and the second			Little
DW COO44 (See	4.5			Set to 'TRANSPONDER 2'.					
RM 52011/55 Continued	JOIN.	E30:	11/60						

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CHAP	2	AIR RADAR	SERVICING PROCEDURES		AP	101B-1000-5A3	F	
SP NO	103	CONTINUED	LICHTNING	(1)		Section 1 (1st Edition)	YF G	
SHEET	6	Poly and a market	96	AC I	NO .	DATE .		
Safety	and S	ervicing Notes are ailed on this card	to be complied with throughout	10 100		RVICING RECORD	ur ad	77.0
one wo.	IN GOV			(1)	(2)	(3)	(4)	(5
4. 4.6	Cod:	ing (Contd) ing unit	Set as in column 1 in the following table and check the pulses listed	t be	ena Na	nocke whee edr 1 o mocketog werg blund		
			in column 2 are present on PT 12004 with no spurious pulses.	Araci S	de de	redicet puly redicet puly redicet red Turbiser		
at Atamas		COLUMN 1	COLUMN 2			odoJ live		
		A1 2 3 4 5 6 7 0 B1 2 3 4 5 6 7 0 C1 2 3	A1 A2 A1, A2 A4 A1, A4 A2, A4 A1, A2, A4 Bracket pulses only B1 B2 B1, B2 B4 B1, B4 B2, B4 B1, B2, B4			Posting		
		3 4 5 6 7 0 D1 2	C4 C1, C4 C2, C4 C1, C2, C4 C1, C2, C4 Bracket pulses only D1 D2 D1, D2		Y ((i) recult		
		3 4 5 6 7 0	D4 D1, D4 D2, D4 D1, D2, D4 Bracket pulses only			TOOA See Polania See		
			AS ROWNINGENATIVE not spe			dutis pOCI passos enq	(a)	

CHAP	2	AIR RADAR	SERVICING PROCEDURES	П	AP1	01B-1000-5A3	F	
SP NO	103	CONTINUED	LICHTNING .		(Section 1 1st Edition)		
SHEET	7	40		AC]	OV	DATE .		
Safety	and Se	rvicing Notes are iled on this card.	to be complied with throughout			VICING RECORD	The second second second	
rue wo	rk deta			(1)	(2)	(3)	(4)	(5)
			AIR RADAR	FW				
4.	Codi	ng (Contd)						
4.7		selector.	Set to 'TRANSPONDER 3' and check reply pulses are not present.		26,			
4.8	CU 6 mode swit	3	Set to MODE 3.					
4.9	unit	control Mode 3 ches.	Set as in column 1 in the following table and check the pulses listed in column 2 are present on PT 12004 with no spurious pulses.					
		COULMN 1	COLUMN 2					
		A1 2 3 4 5 6 7 0 B1 2 3 4 5 6 7 0	A1 A2 A1, A2 A4 A1, A4 A2, A4 A1, A2, A4 Bracket pulses only B1 B2 B1, B2 B4 B1, B4 B2, B4 B1, B4 B2, B4 B1, B2, B4 B1, B2, B4	ed es	Lique ST No.			E001
4.10 4.11	CU 68 PT 12 swite	2004 Timebase	Set to 'EMERGENCY'. Set to '4'.			Section 1		
RM	52011	/56		Con	tinued			

SHEET Safety at the work	2003 CONTINUED 9 and Servicing Notes are k detailed on this card. AII		LICHTNING	AC N	10 . :	Sect (1st Edi	tion) DATE RECORD		
Safety at the worl	and Servicing Notes are k detailed on this card.		olied with throughout		SE	RVICING	RECORD	• •	•
the work	k detailed on this card.		olied with throughout		SE	RVICING	RECORD		
6.				(1)	(2)	1-			
	AI	RADAR		-	(2)	(3)	(4)	(5)
		it iumin							
1 .	Aerial Switching								
	Aircraft aerial test switch.	pulses	'FLIGHT' and check displayed on 004 flicker.			3 -			
	RF cover	(i)	Remove from						
	Type 4345.	(ii)	Lower aerial. Fit to upper aerial. (On canopy).						
	Aircraft aerial test switch.	Set to	'UPPER'						
6.4	PT 12044	Repeat	Item 3.	10					
	Aircraft aerial test switch.	check ;	'FLIGHT' and pulses displayed 12004 flicker.						
7.	General								
	CU6883. (a) Function switch.	Set to	OFF'.						
	(b) Mode 2) switch.) (c) Mode 3) switch.)	Set to	OUT.						
7.2	IFF Master switch.	Set to	OFF'.						
	CU 6465. (a) Mode 1) switch.) (b) Mode 3) switch.)	Set to	1001.						
7.4	PT 12004.	Switch	off and disconnect						
	RF cover Type 4345.	Remove stow.	from aerial and					2	
7.6	Test connectors.	Stow.							
	External supplies.		switched off and nected.						

			Lie kroma (10 mers) (10 mers) (2	
		Set as Princer and check pulsess along fraction on Pl 12004 filesoc.		
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