CHAP	2	SF	21010			SER	VICIN	IG PRO	OCEDU	RES		AP		-1000		F				
TRADE		-	[R RA				LIG	SHTNIN	N G			(		ction					ACT	
SHEET	1	0 F	9	SHEE	T/S		3		5	6	AL	NO	21	DATE			4	TIME	1	
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Safety											(1)	(2)		(3)		(4)	(5)	_	Щ	
with th	hroug	hout	the w	ork de	talled	on	tnis	Cara			S	-	BRIE	F NILS 0	-	0 N				
Specia					_						MAN HOURS	RADESMEN INIT		USPEC		720B	C.O. ITIALS			
Scree: Watch				ype 6.	414 -	10A	L/46	8494	to		MAN	TRAD				F. 7	N.C.			
				AIR	RADAI	R NC	0													
NB:	of Ra mu co SP sy is	the dar st hanfid	e Eng Bull be no dence A/B(A m (ex rvice when	gineer et or ted to e check (R) to ccluding the r (5)B ac	ring 0: LRU: hat the k at a ensu- ng the Thi	ffic repl he S a lo re t e re s SP syst	er flacem SP is ower that ecord	folloment. s onl leve the der v	owing I I' ly a el th rada visua ot be	g a t han ar al) e								1	PROCEDURE CARDS	
1.	Pr	epar	ratio	<u>n</u>															ROCE	
NB:				craft RAM N					adin	g							•			
1.1		KV.	A Pow	rer	(i (i		airo	nect craft tch		•							•		ASSOCIATED	
1.2			ument r swi		Se	t to	10' c	<b>1.</b>											11,	
1.3	LF	's/c	RT sw	witch.	Se	t to	·LI	FS'.												
1.4		RG On vite	n/Off h.		Se	t to	10' c	1,												
1.5	ar	mam elect			Se	t to	o 'GV	N .												
1.6	ur ( a	nit. a) Gi s s o) T s c) V	contr (HCU round tandk witch x On/ witch is-id witch	J). d test by h. /Off h. dent	TE Se	esT'.	• o '0]	ROUN FF'. FF'.											ASSOCIATED TRADES	
Note:				1.7 is craft.		.ical	ole d	only	to										ASS	-
1.7	Ir	upil nstr witc	ructor	r	Se	∍t to	o 'P	UPIL	١.								-	F	0 N	10
100																			SP	1010
	100	725	7/2								С	ontir	ued							

			RESTRICTED						
CHAP	2	AIR RADAR	SERVICING PROCEDURES		AP		000-5A3	F	
SP NO	101C	CONTINUED	LICHTNING				dition)	1	
SHEET	2	AL 21		AC N	о.,		DATE .		
		Servicing Notes are to tailed on this card.	be complied with throughout				G RECORD		
THE MO	CK Ge	tailed on this card.		(1)	(2)		(3)	(4)	(5)
		AIR F	ADAR NCO						
2.	Po	ower Run Up							
2.1		CU main On/Off witch.	Set to 'ON' and simultaneously start stopwatch.						
2.2	( 8	ndicator/s. a) Azimuth, Elevation and attitude scale lamps. b) Polaroid	Ensure lit. Ensure smooth						
2.3	L	dimmer.	operation.  (i) Raise reflector.  (ii) Ensure 'in-range' marker is displayed within 4 minutes PLUS OR MINUS 20 seconds of switching 'on' HCU main on/off switch.						
2.4		CU range elector switch.	Select 60/80nm range.						
2.5		ndicator/s range cale.	Ensure 60/80 and 10nm scales illuminated.				*		
2.6		CU range elector switch.	Select 40 nm range.						14
2.7	(;	ndicator/s. a) Range scales. b) Computor switch.	Ensure 40 and 10 nm scales illuminated.  (i) Ensure illuminated.  (ii) Set to '1'.						
2.8	II ,	FS.	Ensure in-range marker disappears within 4 minutes 30 seconds PLUS OR MINUS 25 seconds of switching 'on' HCU main on/off switch.						
	¥								
A P	, '				ja ja		ensemble de la constitución de l		
SMS	182	1357/2A	r dien kind platen de vo	Co	ntinu	ed			

CHAP SP NO	2 101C	AIR RADAR		SERVICING PROCEDURES LIGHTNING			Se	000-5A3 Ction	F 1	
SHEET	3	AL 21			AC N		_	DATE .		
			o be cor	plied with throughout		Name and Address of the Owner, where		G RECORD		
the wo	ork de	tailed on this card.			(1)	(2)		(3)	(4)	(5)
		AIR RA	ADAR NO	00		11				
2.	Pow	er Run Up (Con-	td)							
2.9		icator/s.	(i)	Ensure timebase is central and elevation marker is						
			(ii)	approximately +4 degrees. Adjust indicator RV2 to position time-base at zero degrees in azimuth.						
2.10	LFS	CRT switch.	Set to	CRT'.						
3.		rch Phase								
3.1	Ind	licator/s.	Ensure displa	e search phase ayed.						
3.2	HCU	scan selector.	Selec	t single bar scan.						7
3.3	Ind	licator/s.	(i)	Ensure acquisition, attitude and elevation markers are displayed.						
			(ii)	Check that the position of the attitude marker corresponds to the OR946 attitude indicator.						
3.4		J range ector switch.	Selec	t 10 nm range.						
3.5	Ind	licator/s.	(i) (ii)							
Y			<b>9</b>	base is searching between 50 degrees Port and 50 degrees Starboard with a scan frequency of 1 Hz.						
3.6	HCT	J handle.	Move	fully aft.						
3.7	Ind	licator/s.		e elevation marker +27 degrees.						
3.8	HCT	J handle.	Move	fully forwards.						
GMG	192	/357/3			Co	ntinu	ed.			

CHAP	2	AIR RADAR		SERVICING PROCEDURES		AP		1000–5A3 F		100,00
-	1010	CONTINUED	7	LICHTNING				ection 1 Edition)		
SHEET	4	AL 21	1		AC N			. DATE .	AL C	
Safety	and S		to be co	mplied with throughout		THE PERSON NAMED IN	-	NG RECORD		do.
		ailed on this card.			(1)	(2)		(3)	(4)	(5)
		AIR R	ADAR NO	00				1 1,000 0 000		i iqui ii
3.	Sear	ch Phase (Con	ta)	1 11 1						
		cator/s.		e elevation marker						1
J• 9	THUL	Ca 101/5.		- 8 degrees.						
3.10	HCU	handle.		to set elevation r at +4 degrees.						
3.11	HCU	scan selector.	Selec	t 2 bar scan.						
3.12	Indi	cator/s.		e elevation marker in 2 bar scan rn.						11 1/11
3.13	HCU	scan selector.	Selec	t 4 bar scan.						
3.14	Indi	cator/s.		e elevation marker in 4 bar scan m.						
3.15	HCU	scan selector.	Selec	t single bar scan.			1			
3.16	HCU	gain control.	setti	t to give optimum ng, i.e. noise peaks visable.						
4.	Acqu	isition Phase								
4.1		phase change ger.	Selec	t acquisition phase.						
4.2	Indi	cator/s.	of 10	e scan has a width degrees and that the for 25 sweeps is en 8 and 12 seconds.						ja Lies
4.3		range crol.		t to set acquisition r to 5 nm.						
4.4	Indi	cator/s.	Ensur	e acquisition circle						
4.5	HCU swit	range change	Switc	h to 40 nm.						
4.6	Indi	cator/s.	is un	e acquisition circle changed in shape or ion at 5 nm.						
4.7		range trol.	(i) (ii)	Adjust to move acquisition circle between top and bottom of display. Return acquisition circle to 5 nm.	Α					
	~~	357/3A			Co	ntinu	<u></u>			

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CHAP	2	AIR RADAR	SERVICING PROCEDURES		AP	101B-1000-5A3F		
SP NO	101C	CONTINUED	LIGHTNING			Section 1 (1st Edition)		
SHEET	6	AL 21		AC N	-	DATE .		
			be complied with throughout			RVICING RECORD		
the wo	rk de	tailed on this card.	~~~	(1)	(2)	(3)	(4)	(5)
		AIR	RADAR					
6.	T	ransmitter Check						
NB:	C	ub-items 6.1 to carried out ONLY itted.	6.3 inclusive are to be IF RAM screen nose IS					
6.1		x on/off witch.	Set to 'ON'.			,		
6.2	I	ndicator/s.	Ensure that display is unchanged and that transmitter fault counting circuit does not operate.					
6.3		x on/off witch.	Set to 'OFF'.					
NB:	Ъ	ub-items 6.4 to 6 e carried out ONI S NOT fitted.	5.10 inclusive are to LY IF RAM screen nose					
6.4	A	ircraft.	Ensure that the aircraft is on a safe heading and that radiation warning boards are placed 50 degrees either side of the nose of the aircraft to a distance of 80 feet from the nose of the aircraft.					•
6.5		x on/off witch.	Set to 'ON'.					
6.6	I	ndicator/s.	Ensure that the transmitter fault counting circuits do not operate and that ground returns are displayed.					
6.7	H	CU.	Position acquisition circle over most clearly defined target.					
6.8		CU phase change rigger.	Select acquisition phase and then track.					
6.9	ľ	ndicator/s.	Ensure that the radar locks on to target and shows no sign of breaking lock.					
	,_							
SMS	182	1357/4A		Cor	ntinue	ed.		

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CHAP SP NO	2 101C	AIR RADAR	SERVICING PROCEDURES LIGHTNING			01B-1000 Secti (1st Edit	on 1	
SHEET	7	AL 21		AC I			ATE	
			o be complied with throughout	AU I		RVICING F		
the wor	rk det	ailed on this card.	o be compiled with unroughout	(1)	(2)	(3)		4) (5
		AIR :	RADAR NCO					
6.	$\operatorname{Tr}$	ansmitter Check	(Contd)			-114		
6.10	_							
0.10		) Tx On/off switch.	(i) Wait a minimum of 6 seconds then set 'OFF'.					
			(ii) Check target marker immediately sweeps about lock on position before drifting inwards.					
	(ъ	) Phase change trigger.	Select search phase.					
7.	<u>Vi</u>	s-ident Function	<u>a</u>					
7.1		s-ident itch.	Set to 'ON'.					
7.2		quisition rker.	Set to 5 n.m.					
7.3	fa	U new cilities itch.	Select 'New Facilities'.					
7.4		U reject ver.	Reject inwards.					
7.5	In	dicator/s.	Ensure vis-ident therometer scale displayed.					
7.6		U range ntrol.	Adjust to change over from therometer scale to range circle. Ensure change over occurs at 900 yards.					
7.7		U range ntrol.	Adjust to bring range circle to minimum.					
7.8	In	dicator/s.	Ensure that range circle centre F aligned with graticule reference circle centre.		1 12			
7.9	۷i	s-ident switch.	Set to 'OFF'.					
8.	<u>Ne</u>	w Facilities	1					
8.1	-	U handle.	Move slowly from port to starboard.					
	1 21					,		
SMG /	<b>27</b> 1	357/5		-	ntinu			

	CHAP	2	AIR RADAR		SERVICING PROCEDURES		AP	101B-1000-5A3 ]	7	
	SP NO	101C			LICHTNING			Section (1st Edition)	I	
L	SHEET	8	AL 21			AC N	ю.	DATE .		
				o be	complied with throughout		The Real Property lies	RVICING RECORD	THE REAL PROPERTY.	
ŀ	the wor	rk de	tailed on this card.			(1)	(2)	(3)	(4)	(5)
			AI	RR	ADAR NCO		N		1 11 1	
	8.	Ne	ew Facilities (	Con	td)	l				
	8.2	Ir	ndicator/s.	]	Ensure acquisition circle movement is limited to PLUS AND MINUS 25 degrees azimuth.					
	8.3	HO	CU handle.		Centralise.					
-	8.4		CU scan elector.	Ś	Select 2 bar scan.			1		
	8.5	Ir	ndicator/s.	I	Ensure elevation marker shows single bar scan pattern.	ar dittara en productivo de la companio della companio de la companio de la companio della compa				
	8.6		CU scan elector.	\$	Select 4 bar scan.					
-	8.7	Ir	ndicator/s.	I	Ensure elevation marker shows single bar scan pattern.	A CONTRACTOR OF THE CONTRACTOR				
-	8.8		CU scan elector.		Select single bar scan.					
AND RECORD AND ASSOCIATION OF THE PERSON	8.9	Ir	ndicator/s.	7	Ensure that an enlarged time circle with no gap is present.					
-	8.10	LE	FS/CRT switch.	\$	Select 'LFS'.			w 1,1		
	8.11		CU reject ever.	]	Reject 'IN' and hold.					
	8.12	LF	rs.		Ensure 'in range' lamp illuminated.			,		
A STATE OF THE PERSON NAMED IN	8.13		U reject	]	Release.					
	8.14	LE	FS/CRT switch.	\$	Select 'CRT'.					
	8.15		U phase change	. ;	Select track phase.					
	8.16	LE	FS/CRT switch.	\$	Select 'LFS'.					
	8.17	Ir	ndicator/s.		Ensure LFS phase displayed.					
	8.18	LF	FS/CRT switch.	\$	Select 'CRT'.					
-	8.19		ndicator/s.	(	Ensure search phase displayed. (Post Mod 4702 installations).					,
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SHEET Safety a the work	nd S	CONTINUED AL 21	LIGHTNING	1			00-5A3 H		
Safety a	nd S		22421214	1	(	Sec 1st Ed	tion 1 ition)		
the work			◀	AC N	ю		DATE .		
	det	ervicing Notes are to	be complied with throughout		SEE	RVICING	RECORD		
8.		ailed on this card.		(1)	(2)	(	3)	(4)	(5
8.		AIR R	ADAR NCO						
		Facilities (Co							
		phase change gger.	Select track phase.					1	
		ter armament ector switch.	Set to 'GUNS'.						
8.22	Ind	icator/s.	Check steering dot moves 1 cm up.						
9.	Com	pletion							. 18
	HCU (a)	Ground Test	Set to 'STANDBY'.						
	(b)	standby switch. Man on/off switch.					w		
	(c)	New facilities switch.	Set to 'OFF'.						- 1
		ter armament ector switch.	Set to 'OFF'.						
9.3	MRG	on/off switch.	Set to 'OFF'.			4.1			
- 1		trument ter switch.	Set to 'OFF'.						
9.5	15	KVA Power Unit.	<ul><li>(i) Switch 'OFF'.</li><li>(ii) Disconnect from aircraft.</li></ul>						
9.6	RAM	screen nose.	Remove from bullet.						
	(Po	m 705B. st Bullet nge).	ENTER: Day vis-ident required before next night (IMC) vis-ident sortie.						

