CHAP	2 SP 104	SERVICING PROCEDURES		Al	.101B-1000-5A				
TRADE	AIR RADAR	LIGHTNING			Section 1 (1st Edition)		10.0	ACT	
SHEET	1 OF 11 SHEET/S	1 1A 2 2A 3 4 5 6	AL I	NO	DATE			TIME	
TITLE	IFF/SSR (Using)	PT 12004)	AC I		ICING RECORD DATE			EST TI	
Safety the wor	and Servicing Notes are	to be complied with throughout	(1)	100	(3) BRIEF DETAILS	(4)	(5)	留	
Pumps Watch Troll Teste	Tools and Equipment Pressurizing. Les Stop GS 1/5 sector Type 12036. Ley Type 12036. Ley Performance, Ty Kit Aerial.		MAN HOURS	TRADESMAN	OF DEFECT OR SUSPECTED DEFECT	F. 720B NO	N.C.O. INITIALS		
	IA A	IR RADAR							
1.	Preparation						COL.		
1.1	TR 16928.	Ensure pressurized to 4 lbf/in2.	in the same	7	ring ng Pynj gawang	ior ior			
1.2	PT 12004	Connect to 28V d.c. supply.			Central parties	UQ.	24		
1.3	RF cover.	Place on lower aerial and secure ensuring cover is seated correctly.			. 100 - 100			DURE CARDS	
1.4	Aerial test switch.	Set to 'LOWER'.			Managh Lan.) PROCEDURE	
1.5	Co-axial connector.	Interconnect PT 12004 Low Level RF-In socket and RF cover.	WE With	inc s	two cross Lagrana Lagrana			ASSOCIATED	
1.6	External power supplies.	Switch on	la,	1.00	o pie see	40		I	
1.7	Secondary warning panel.	Ensure IFF warning lamp lit.		10.516	Lundann Sul Isa				
1.8	CU 16929. (a) Mode 1 switch.	Set to 'ON'.		JIII Tarii	The residence of the second se				
	(b) Mode 2,3, C) and D switches.	Set to 'OFF'.		J.	Luly Partition			LDES	- Audi
	switches. (c) Mode 3A/B) switch.				amos bun			ASSOCIATED TRADES	
	(d) Mode 1 and 3 code switches	Set to '0000'.		E dr.7	tion X			ASSOCIA	
		and whostern facts			anno Auri				
			N. T		Section 1			NO	40
DM	52011/ 5%		-	Const	inued	1		SP	104

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-	2	AIR RADAR	SERVICING PROCEDURES	AP101B-1000-5A3 F Section 1					
SP NO	104	CONTINUED	LICHTNING		(Section 1st Edition)	1		
SHEET	2	Total Control of the		AC 1		· · · DATE .			
Safety	and S	ervicing Notes are	to be complied with throughout		ACCORDING TO SECURE	VICING RECORD	CONTRACTOR OF THE PARTY OF THE	•	
the wo	rk det	ailed on this card.	(1000)	(1)	(2)	(3)	(4)	(5	
EP-1-	100	AIR F	RADAR				147	- ()	
1.	Pre	paration (Cont	d)		400 0		Harry C.		
1.8		16929.							
		Civil/ Mil switch.	Set to 'MIL'.						
	(f)	Function switch.	Set to 'STBY'.	24.0			istí nan		
1.9		ondary ning panel.	Ensure IFF warning lamp						
1.10		16929 etion switch.	Set to 'NORM' after one minute warm up.						
1.11		ondary ning panel.	Ensure IFF warning lamp remains extinguished.						
1.12		6929. Self Test. button.	(i) Depress (ii) Ensure Green confidence lamp						
	(b)	Function switch.	lights. (iii) Release. Set to 'STBY'.						
•13	(a)	2004. Power switch. Set Sig Gen switch.	Set to 'ON'. Set to 'TRANSPONDER'.						
	(c)	Set Sig Gen frequency control.	Adjust for maximum meter indication and not counter setting.						
		Set Sig Gen switch.	Set to 'IEVEL'.						
		Set Sig Gen	Adjust for meter						
	(f)	Level control Power and Sensitivity controls.	indication of Set Level. Set fully anti-clockwise.		1				
	(g)	Brilliance and Focus controls.	Adjust for clearly defined trace.						
	(h)	'X' and 'Y'	Position start of trace at junction of horizontal and first	-6	lices odinati				
		Time base Duration	vertical graticule line. Set to '1'.						
	(k)	switch. Timebase Amplitude control.	Set so that trace reaches last graticule line.						

CHAP	2	AIR RADAR	SI	ERVICING PROCEDURES		AP	101B-1000-5A3	F	
SP NO	104	CONTINUED		LIGHTNING			Section 1 (1st Edition)		
SHEET	3	Share			AC N	10 . :	DATE .		
		ervicing Notes are t	o be compl	lied with throughout	No let		RVICING RECORD		CT-17
the wo	rk det	ailed on this card.			(1)	(2)	(3)	(4)	(5)
		AIR R	ADAR		W. A.	4177			
2.	рп	12004 Self Test							
	- International								
2.1		12004 Mode	Set to	'TRANSPONDER 1'.					
	(4)	selector	Det to	THANSI ONDER 1		100			
		switch.					I out the second		
	(b)	Self Test	(i)	Depress and check					
		switch.		leading edge of					
				second pulse coincides with					17
				Mode 1 marker					
				on lower scale.					
	()		(ii)	Release.					
	(c)	Mode Selector switch.	Set to	'TRANSPONDER 2'.		1			
	(b)	Self Test	(i)	Depress and check					
	()	switch.		leading edge of		F			
				second pulse					
				coincides with	1				
				Mode 2 marker on lower scale.					
			(ii)	Release.					
	(e)	Mode Selector		'TRANSPONDER 3'.	1.	-			
		switch.						-10	
	(f)	Self Test	(i)	Depress and check					
		switch.		as for Modes 1 and 2.					11 400
			(ii)	Release.			Log Town		
3.	Rec	eiver Sensitivi							
	Composition.			'NORM'.					
3.1		16929 action	set to	· NOUM .					
		tch.							
3.2	PП	12004.							
502		Mode Selector	Set to	'TRNASPONDER 1'.					100
		switch.			1		A CAPACITY		
	(b)	Sensitivity	(i)	Set dial .			THE STATE OF THE		
		control.		indication to '67' and check pulse					
				has no line					Part
			1	across base.	1				
			(ii)	Adjust until a					
				faint line just appears across					
				base of pulse.		1		1	
			(iii)	Check dial					
				indication is not	le to l				
				greater than '72' and note.					
				and note.					
RM	5201	1/59			Cor	ntinue	ed		

CHAP SP NO	2 104	AIR RADAR	S	ERVICING PROCEDURES			101B-1000-5A3 Section 1	F	TAIL			
SHEET	4	CONTINUED	-	PIGHINING			(1st Edition)					
					AC NO DATE							
the wo	and S	ervicing Notes are ailed on this card	to be comp	lied with throughout			RVICING RECORD	mi er	etai l			
			_		(1)	(2)	(3)	(4)	(5)			
		AIR RA	ADAR		ST P							
3.	Rec	eiver Sensitiv	rity (Con	td)	des	e de	a const					
3.1	PT	12004					10.4 to 1.5 to 1.5 to					
	(c)	Set Sig Gen Frequency control.	(i) (ii) (iii)	maximum response of pulse on display and minimum paint across base line. Note indication.		(1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	MARK (A					
3.3	Fun	16929 ction tch.	Set to	'LOW SENS'.		if cub.						
3.4	Sens	12004 sitivity trol.	(i) (ii)	Turn fully anti- clockwise then slowly clockwise until a faint line just appears across base of pulse. Check dial		SAR	AD FEMALES OF THE STREET STREE	V				
Ť				indication exceeds '55'.			a de la constante de la consta					
3.5		16929 ction tch.	Set to	'NORM'.		adan Marija	sed ekod(e .dovim Jernovi (d Corinto					
3.6	Sens	12004 sitivity crol.		lly anti-clockwise.								
				Arros Greek delen Estitionaliste greekter (ling and nater								
RM	52011	/59A				inued						

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CHAP	2	AIR RADAR	SERVICING PROCEDURES		AP	101B-1000-5A3 F		
SP NO	104	CONTINUED	LIGHTNING			Section 1 (1st Edition)		
SHEET	5			AC 1				
Safety	and S	ervicing Notes are t	o be complied with throughout			RVICING RECORD	• • •	•
the wol	rk det	ailed on this card.		(1)	(2)	(3)	(4)	(5
		AIR RADA	IR					1,5
4.	Po	wer Output						
4.1		12004.						m C
		Set Sig Gen switch.	Set to 'POWER'.	HT				
	(b)	Power control	(i) Adjust for meter					
			indication of Set Level. (ii) Check dial indication exceeds '6'. (iii) Set fully anti-			0000 0000 0000 0000 0000		
	(c)	Set Sig Gen switch.	clockwise. Set to 'LEVEL'.	MET I		0907 Dana		
5.	Cod	ing				1010 1010		
5.1		12004	28 ,14			6080		
		Timebase	Set to '2'.			60 1/2		
	(2)	switch. Timebase				0690		
	(6)	Amplitude and 'X' shift controls.	Adjust to align leading edge of framing pulses with graticule frame markers.		•	0000 0000 0000		
5.2		16929 e 1 Code	Operate in sequence as in column 1 of the			70600 00600		
	swi	tches.	following table and check the corresponding			12000 12000		
			pulses listed in column 2 are displayed on PT 12004.			1000 1 14 1000 1 1		
						- 1,000		
						\$ 100 m		
			No. 180		-	3005		
			PA		- [1000	- 1	
			month friance on the					
			er jes (1)			TRODER No.		
			C ENTERPHANT! Has					
			Some by Hard with a good or					
			LACETANT LACETA					
			B) 786 (Li)					
			E INCLUSER SILENDA					
RM 52	2011	60		Cont				

	2	AIR RADAF	SERVICING PROCEDURES			AP101B-1000-5A3 F							
SP NO	104	CONTINUED		LICHTNING		then t	S	ection Edition	1				
SHEET	6		on-market		AC	NO -	-	• DATE	The building war and the same				
Safety	y and Se	ervicing Notes	are to be co	mplied with throughout		ALC: United Street, St		NG RECO	THE RESERVE TO SHARE STATE OF THE PARTY OF T	• •			
the wo	ork deta	ailed on this	card.		(1)	(2)		(3)	(4	(5)			
5.	Codi	A ng (Contd	IR RADAR) MODE 1 A1 Bracket C1 Bracket D1 Bracket (i)	COL 2 A1 A2 A1,A2 A4 A1, A4 A2, A4 A2, A4 , A2, A4 B1, B2 B1, B2 B4 B1, B4 B2, B4 Pulses Only. C1 C2 C1, C2 C4 C1, C4 C2, C4 Pulses Only. D1 D2 D1, D2 D4 D1, D4 D2, D4 Pulses Only. Set to 'TRANSPONDER 2' and 'TRANSPONDER 3 in turn and check no reply pulses are present. Set to 'TRANSPONDER 3'.		(2)	はない。			(5)			
DIVE	50044	/60A				tinued							

CHAP	2	AIR RADAR	SERVICING PROCEDURES		AP	101B-1000-5A3	F	
SP NO	104	CONTINUED	LICHTNING			Section (1st Edition)	1	
SHEET	7			AC 1	. OV.	· · · DATE .		
			to be complied with throughout	4	THE OWNER OF TAXABLE PARTY.	RVICING RECORD	The second second	5
the wo	rk det	ailed on this card		(1)	(2)	(3)	(4)	(5)
		AI	R RADAR					
5.	Cod	ing (Contd)			76	100 mg/200		
5.4		16929.						
	(a)	Mode 3A/B switch.	Set to '3A'.		Mark!	and Tarthy belo		
	(b)	Mode 1 switch.	Set to 'OFF'.					
	(c)	Mode 3 Code switches.	Operate in sequence as in Sub-item 5.2 for Mode 1 pulses.					
5•5		12004 Mode ector switch	(i) Set to 'TRANSPONDER 2' and 'TRANSPONDER 1' in turn and check no reply pulses are present. (ii) Set to 'TRANSPONDER 2'.					
5.6	CU	16929.						
	(a)	Mode 3A/B	Set to 'OFF'.					
	(b)	switch. Mode 2 switch	Set to 'ON'.					
5•7	Mod	16928 e 2 e switches.	Operate in sequence as in Sub-item 5.2 for Mode 1 pulses.		j taj	eggur u 6 (1975)		
5.8	PT	12004.			1			
	(a)	Mode selector switch.	Set to 'TRANSPONDER 1' and 'TRANSPONDER 3' in turn and check no reply pulses are present.					
	(b)	Timebase switch.	Set to '4'.			0 160329 1 0540-1/8	1 4	
5•9		16929. Function Mode 1 and 3 Code	Set to 'EMGY' Set to Codes 7777 and 2200 respectively.		Nec	nidragi pitungi (di Antino tabai in		
5.10		12004 Mode ector switch.	(i) Set to 'TRANSPONDER 1' and check first pulse train corresponds to Mode 1 code switches followed by three pulse trains containing			edebeles 36 mount (a activities ann (1/1 (a activities)		

CHAP	2	AIR RADAR	Si	ERVICING PROCEDURES		AP	101B-100			Tarrie .
SP NO	104	CONTINUED		LICHTNING			Sect (1st Ed:	tion 1 ition)		
SHEET	8	Just of a			AC I	то . :		DATE .		
Safety the wor	and S	ervicing Notes are ailed on this card.	to be compl	ied with throughout		SE	RVICING	RECORD	line g	
					(1)	(2)	(3	3)	(4)	(5)
5.	Cod	Aing (Contd)	IR RADAR							
5.10	PT Sel	12004 Mode Lector Switch.	(iii)	Set to 'TRANSPONDER 3' and check first pulse train corresponds to Mode 3 code switches followed by three pulse trains containing bracket pulses only. Set to 'TRANSPONDER 2' and check first pulse train corresponds to Mode 2 code switches followed by three pulse trains containing bracket pulses only.		The state of the s	AC OF STATE	COLUMN CO		
5.11		16929 il/Mil switch.	Set to	CIVIL.				ear di Solo		T, č
5•12	PT	12004 Mode ector switch.	and che pulse torresp (A1, A2 pulses)	'TRANSPONDER 3' ck first rain onds to code 7700 , A4, B2, B4 containing pulses only.		0.5				3.41
5•13		16929. Civil/Mil switch.	Set to	°MIL°.						
	(b)	The second of the second	Set to	'NORM'				4		
	(c)	Mode 1 and 2 switches.	Set to	ON.				ĝ.		
	(d)	Mode 3A/B switch.	Set to	'3A'.		(0)				
	(e)	I/P switch.	Depress	the sade that						
		70A		pa mendit opi sama delent						

CHAP	2	AIR RADAR	SERVICING PROCEDURES	1	A D41	01B-1000-5A3	F	
SP NO	104	CONTINUED	LIGHTNING			Section 1		
SHEET	9			AC I	-	· · · DATE ·		
Safety	and S	ervicing Notes are	to be complied with throughout			VICING RECORD		•
the wo	rk det	ailed on this card		(1)	(2)	(3)	(4)	(5)
		AIR F	PADAR					
5.	Cod	ing (Contd)						
5.14		12004 Mode ector switch.	Set to 'TRANSPONDER 1' and check two pulse trains are present corresponding to code '7777'.					
5•15		16929 I/P tch.	Release and check PT 12004 display continues for approximately 22.5 seconds.					
5.16		12004 Mode ector switch.	Set to 'TRANSPONDER 2'			t with To Alexander or High the		
5.17	CU swit	16929 I/P tch.	Depress.			1007101		
5.18		12004 olay.	Check pulse train, corresponding to Mode 2 code switches on TR 16928, is present followed by F1 pulse of a second train.		200	Adenseja "Crego i 11 O i remark (se		
5•19	CU 1	16929 I/P sch.	Release and check PT 12004 display continues for approximately 22.5 seconds.		10 10 10 10 10 10 10 10 10 10 10 10 10 1	r sholl (d distribute Sholl (d distribute		
5.20		2004 Mode ector switch.	Set to 'TRANSPONDER 3'.	-	Liste Little II (m Deriv	n market (1) n market O market fan		
5.21	CU 1 swit	6929 I/P	Depress.		- 14	uoksa.		
5.22	PT 1	2004 display	Check pulse train, corresponding to Mode 3 code switches on TR 16928 is present followed by F1 pulse of a second train.		A Deplin	- wi 8 ger Birr Min Legion Legion		.6
5•23	CU 1 swit	6929 I/P ch.	Release and check PT 12004 display continues for approximately 22.5 seconds.		elective distribution	M Applies in an		ų Ei
5.24		2004 base switch.	Set to '1'.					
RM 5	52011	/7/	talqual on tubuven	Cont	inued			

CHAP	2	AIR RADAR	S	ERVICING PROCEDURES		AP			,			
SP NO	104	CONTINUED		LIGHTNING			1st Ed	ition)				
SHEET	10	ment and a reco			AC N	10		DATE .				
			to be comp	lied with throughout	p F			-1000-5A3 F Section 1 Edition) DATE				
tne wo	rk de	tailed on this card.			(1)	(2)	(3)	(4)	(5)		
		AIF	RADAR									
6.	Aer	rial Switching										
6.1		rial Test .tch.	check	'FLIGHT' and pulses displayed 12004 flicker.								
6.2	RF	cover.	(i)	Remove from lower aerial.								
			(ii)	Position on forward upper aerial.								
6.3		rial Test	(i)	Set to 'UPPER' and repeat Items 3 and 4.					3			
			(ii)	Set to 'FLIGHT'.								
6.4	PT	12004.		pulses are present splay flickers.								
7.	Ger	neral										
7.1	(a)	16929.) Function switch.) Mode 1 and 2) switches.) Mode 3A/B switch.	Set to	OFF.								
	(d) Mode 1 and 3		100001.								
	(e	Code switches. Mode C and D switches.		OFF.								
NB		em 8 is applical IM 3756	ble only	to aircraft Post		ELD						
8.	Ger	neral										
8.1	Pl	ocket	Discon	nect from ejection								
8.2		12004 Mode lector switch.	(i)	Set to 'TRANSPONDER 1' and check four pulse trains								
			(ii)	present on display Set to 'TRANSPONDER 2' and check four pluse trians		100						
P	M 52	011/7/4		present on display	-	ntinue	d		1	1		

CHAP	2	AIR RADAR		SERVICING PROCEDURES		AP	101B-1000-5A3		
SP NO	104	CONTINUED		LIGHTNING	-		Section ((1st Edition)		
SHEET	11				AC 1		• • DATE		
Safety	and a	Servicing Notes are	to be com	plied with throughout			RVICING RECOR		
the wo	rk de	tailed on this card			(1)	(2)	(3)	(4)	(5)
		AIR	RADAR						
8.	Gen	eral (Contd)							
8.2	Pt sel	12004 Mode ector switch.	(iii)	Set to 'TRANSPONDER 3' and check four pulse trains present on display					
3.3		16929 ction switch.	Set to	Low SENS					
8.4		12004 Mode ector switch	Repeat	Sub-item 8.2					
B.5	Plo	cket	Refit	to ejection seat.					
3.6	PT	12004 display		no pulses present					
).	Com	pletion							
.1		ernal power plies.	Switch	OFF.					
.2	PT	12004	(i) (ii)	Switch 'OFF'. Disconnect.					
9.3	RF	cover.	Remove	from aerial.					
		011/72							

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