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## **ARROW 1 SERVICE DATA**

SECTION 42

ELECTRONICS
"X" BAND BEACON

(This data supersedes the previous issue dated 15 Jan 57)

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## UNCLASSIFIED ARROW 1 SERVICE DATA LIST OF REVISIONS

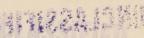
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#### DESCRIPTION

#### GENERAL

- The X-Band Beacon system is installed to evaluate the centimetre waveband antenna which will be required for the air-to-air X-Band IFF system fitted to later aircraft. The beacon transmits a pulsed reply when interrogated by signals from an X-Band pulsed radar set. The system increases the operating range of the interrogating radar by reinforcing the normal echo with a re-transmitted signal. The frequency range of the system is 9200 mc/s to 10,500 mc/s.
- 2 The system comprises the following main component units:
- (a) Receiver-Transmitter RBX-1
- (b) Power Supply RPX-1
- (c) Antenna
- (d) Waveguide Assembly
- (e) Waveguide Dehydrator

#### RECEIVER-TRANSMITTER

- 3 The X-Band Beacon receiver-transmitter consists of a crystal video type receiver, a hard tube modulator and a transmitter.
- Interrogation signals from a pulsed radar set are received by the X-Band antenna and controlled by a flap attenuator to reject signals other than those occurring within a narrow band about the frequency of the interrogating radar. The accepted signals are applied to a crystal detector type 1N23C fitted in a crystal mount housed in the flap attenuator. The crystal passes positive video pulses to the receiver where they are amplified. The receiver output triggers a blocking oscillator which in turn triggers the hard tube modulator circuit, so enabling the unit to transmit closely spaced pulses such as are required for coding. The modulator output is fed to a co-axial (dual cavity) klystron which generates the transmitted signal. The transmitted signal is controlled by a flap attenuator and transferred

via the waveguide for radiation at the antenna. A tee section and dummy load mounted between the two attenuators and the waveguide permits the antenna to be used for both transmission and reception.

5 The receiver-transmitter unit is enclosed in a pressurized cylindrical case approximately 12-1/4 inches long and 3-1/2 inches in diameter. A control, accessible through the end of the case, permits adjustment of the receiver sensitivity to prevent the beacon from triggering on noise voltage.

#### WAVEGUIDE PRESSURIZATION

to prevent arcing. Pressurizing air is fed to the system via a non-return valve and a waveguide dehydrator which filters out any moisture. The antenna incorporates a pressure relief valve which opens at a nominal value of 16 psig to prevent over-pressurization. A pressurized mica window fitted between the waveguide and the tee section and dummy load isolates the receiver-transmitter from the waveguide pressurizing system. A charging valve is fitted in the air pressure line to facilitate ground testing.

#### POWER SUPPLY

The receiver-transmitter derives 6.3 volts AC for filament supply, and 300 volts DC for the plate supply which is regulated for stability, from a power unit provided with the system. The power unit operates on an input of 115 volts 400 cps AC at a nominal current of 0.9 amps. A control, accessible through the end case of the power unit, permits the pre-adjustment of the output voltage. The unit is enclosed in a pressurized cylindrical case similar to that provided for the receiver-transmitter.

#### FUNCTION TESTING

#### GENERAL

8 Prior to installation in the aircraft, the system is tested and adjusted to operate in conjunction with a particular radar interrogator.

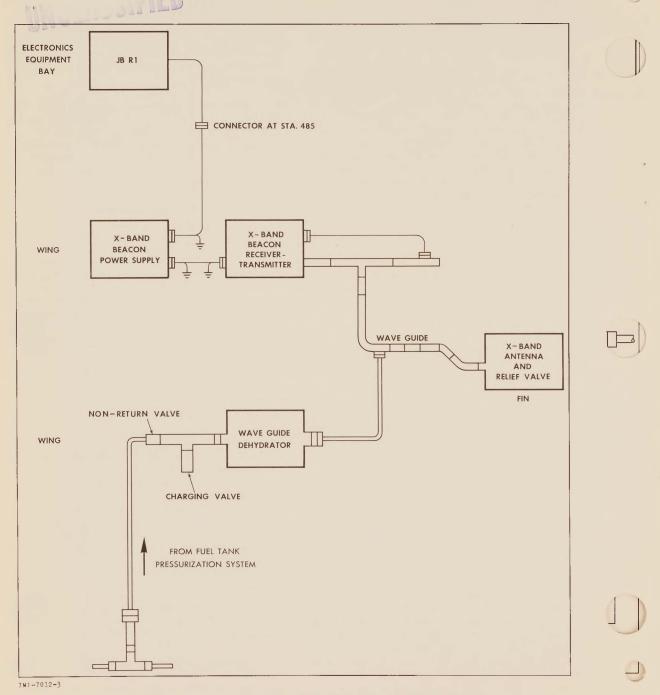


FIG. 1 X-BAND BEACON - GENERAL ARRANGEMENT

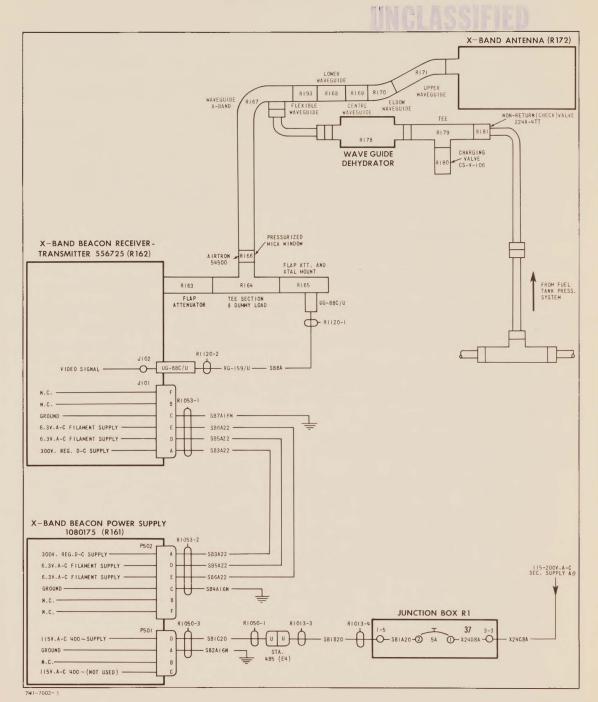
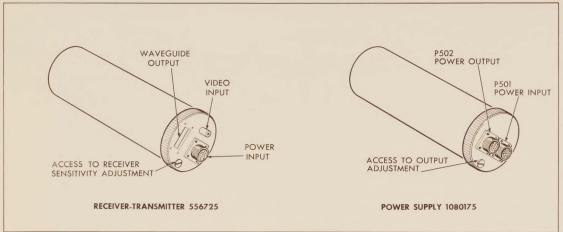


FIG.2 X-BAND BEACON - CABLE ROUTING

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FIG. 3 X-BAND BEACON RECEIVER-TRANSMITTER AND POWER SUPPLY

- 9 The only control accessible from outside the beacon case is the receiver sensitivity control. This is set during testing and should not require further attention.
- 10 If, after installation, the response of the beacon to noise signals requires a decrease in receiver sensitivity the following procedure should be adopted:
- (a) With no input signal, advance the sensitivity control clockwise until the beacon first triggers on noise voltage.

(b) Turn the control counterclockwise until the beacon just stops triggering.

NO

- 11 The only control accessible outside the power supply unit case is the output voltage adjustment. This is adjusted during testing and should not require further adjustment.
- 12 The system operates automatically upon receipt of interrogation signals when the X-BAND BEACON circuit breaker in junction box R1 is switched ON.



SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO
ELECTRONICS	5	X-BAND BEAC	ON	Receiver-Tra RBX	1 3-	
AVRO PART NO.	15-	MANUFACTURER Bendix		'R'S PART NO.	AIRCRAFT E	FFECTIVIT
		Electric)				201
OVERHAUL LIFE:	KNOWI	<b>\-</b>	ES'	TIMATED- 200 ho	ours	
FUNCTION		ves signals in the 92 from a tracking rad				
LOCATION	******					VIII V
	Dorsa	l electronic equipme	nt area b	etween stations	540 and 550.	
ACCESS			···		ME	EN X MINUTE
		nnect the sense anter we the aft dorsal fair			•	
REPLACEMENT PROC	EDURE				ME	N X MINUTE
	Secure Connec Fit and one co Refit t Reconn	e unit into its mountie the mounting clamp of and secure the wa d secure one connect axial connector (R11 he aft dorsal fairing nect the sense antenn he sense antenna acc	with six veguide. tor (R105, 20-2) six late ha to the six	3-1), and ches. susceptiformer.		

NSPECTION		MEN X MINUTES
	Check that the unit is securely mounted.  Check that the cables and connectors  are securely and properly fitted.	
UNCTIONAL CHECKS		MEN X MINUTES
GROUND HANDLING AND	GROUND TEST EQUIPMENT	
	External Power Source. Source of Air Pressure. Pressure Gauge.	
PECIAL TOOLS TO REMO	VE OR SERVICE	
REMARKS		

COMPONENT DATA SHEET

## UNCLASSIFIED

SYSTEM		SUB-SYSTEM		COMPO	NENT	REF. NO
ELECTRONICS		X-BAND BEAC		Power Supp		13-4
AVRO PART NO.		MANUFACTURER Bendix (Supplier, Aviation	MANUFACTURER MAN'F'R'S PART NO. AIR Bendix		AIRCRAFT E	EFFECTIVIT
OVERHAUL LIFE:	KNOV	Electric)	FC.	TIMATED - 200 )		
FUNCTION	KNOV	VIV-		TIMATED- 200 ho	ours	
, one non		lies 300 volts DC and viver-Transmitter 556		AC to the X-Ba	nd	
LOCATION						
	Dors	al electronic equipme	nt area b	etween stations	540 and 550	
ACCESS				·	МЕ	EN X MINUTE
		ove the aft dorsal fair	ing - six	latches.		
REPLACEMENT PRO	CEDUR	PE .			МЕ	EN X MINUTE
	Secu Fit a Refit Reco	he unit into its mounti re the mounting clamp and secure two connect the aft dorsal fairing onnect the sense antenna the sense antenna ac	o with six tors six latena to the	ches. susceptiformer.		

	Check that the unit is securely mounted. Check that the connectors are securely and properly fitted.		
	Check that the connectors are securely		
FUNCTIONAL CHECKS		MEN X	MINUTES
GROUND HANDLING AND GRO	OUND TEST EQUIPMENT		
	External Power Source. Source of Air Pressure.		
	Pressure Gauge.		
SPECIAL TOOLS TO REMOVE O	R SERVICE		
REMARKS		***	

## ARROW 1 SERVICE DATA COMPONENT DATA SHEET

SYSTEM		SUB-SYSTEM COMPONENT  X-BAND BEACON Antenna and Relief		IENT	REF. NO.	
ELECTRONICS				Antenna and R	elief Valve	13-4
AVRO PART NO.		MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT EFFECTIV	
7-1383-57					25	201
OVERHAUL LIFE:	KNOV	VN-	ES	TIMATED- 1000	hours	
FUNCTION	The a	cansmit and receive si assembly includes a C s at 16 psig to prevent	S-V-105	pressure relief		
LOCATION			- N			
	Uppe:	r end of rear spar of :	fin.			
ACCESS	0.90				ME	EN X MINUTE
	one a	ove eight screws attac ccess door. ove one access door -				
REPLACEMENT PRO	CEDUR	E			МЕ	N X MINUTE
	Place 22 sc Attac Attac	h the antenna to one as the access door in porews.  h the antenna to the who the antenna to the ore the second access do	osition an aveguide ther acces	d secure with  - four screws. ss door - eight s		

INSPECTION		MEN X MINUTES
	Check that the antenna is securely mounted. Inspect the antenna for cracks and corrosion. Check the connection to the waveguide for security and leakage.	
FUNCTIONAL CHECKS		MEN X MINUTES
GEOUND HANDLING AND	CROUND TEST FOUNDATAT	
GROUND HANDLING AND	GROUND TEST EQUIPMENT  Source of Air Pressure.  Pressure Gauge.  External Power Source.	
SPECIAL TOOLS TO REMO	VE OR SERVICE	
REMARKS		

## ARROW 1 SERVICE DATA COMPONENT DATA SHEET

	-						
SYSTEM			SUB-SYSTEM		IENT	REF. NO.	
ELECTRONICS		X-BAND BEAC	ON	Waveguide De	ehydrator 13-4		
AVRO PART NO.		MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT E	FFECTIVITY	
	9	Eastern Industries Ltd	DP10	50 - Type 201A	252	:01	
OVERHAUL LIFE:	KNO	WN-	ES	TIMATED- 1500 h	nours		
FUNCTION		remove any moisture p supplied to the wavegu		the pressurizat	ion		
LOCATION	Dor	sal electronic equipme	nt area.	10.10.00			
ACCESS	pan Dis	nove the radio compassel - six screws. connect the sense anten	ina at the	susceptiformer		N X MINUTES	
REPLACEMENT PROG	Fit Atta Refi	and secure the dehydra ach the input and the ou it the aft dorsal fairing connect the sense antenr it the sense antenna acc	tput pipe - six late ha at the	lines. ches. susceptiformer.	crews.	N X MINUTES	

INSPECTION		MEN X MINUTE
	Check the colour of crystals and replace if they are pink.  Check the dehydrator for security and damage.  Check the piping for damage.	
FUNCTIONAL CHECKS		MEN X MINUTE
GROUND HANDLING AND GR	ROUND TEST EQUIPMENT	
	Source of Air Pressure. Pressure Gauge.	
SPECIAL TOOLS TO REMOVE	OR SERVICE	
REMARKS		

## ARROW 1 SERVICE DATA COMPONENT DATA SHEET

SYSTEM		SUB-SYSTEM		COMPON	JENT	REF. NO.	
ELECTRONICS		X-BAND BEACO				13-4	
				20			
AVRO PART NO.		MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT E	FFECTIVITY	
7-1362-35	Av	vro Aircraft Ltd.			252	01	
OVERHAUL LIFE:	KNOWI	V-	ES	TIMATED- 1500 h	nours		
FUNCTION	To pro	ovide an entry into the arging valve CS-V-1	e wavegu 06, to fac	ide air pressure ilitate ground te	e line esting.		
LOCATION	****						
	Aft don	rsal area at station 5	505 betwee	en dehydrator ar	nd non-retur	n	
ACCESS					ME	N X MINUTES	
		re the forward sectionent dorsal fairing -					
REPLACEMENT PRO	CEDURE				ME	N X MINUTES	
	Screw Clamp Fit and Refit th	the tee section to the the non-return valve the non-return valve I secure the charging he forward section o fairing - six latches	e to the te e to the va g valve CS f the elec	e section. alve mounting, 5-V-106.	t		

DEMANDE NEW TONE			
INSPECTION		MENX	MINUTES
C	heck that the unit is securely fitted. heck for the proper value of air pressure. heck for pressure leaks.		
FUNCTIONAL CHECKS		MENIXA	MINUTES
FUNCTIONAL CHECKS		MENX	MINUTES
GROUND HANDLING AND GROU	ND TEST EQUIPMENT	J	
P	ource of Air Pressure. ressure Gauge. xternal Power Source.		
SPECIAL TOOLS TO REMOVE OR	SERVICE		
REMARKS		-11	

COMPONENT DATA SHEET

				INCI	Accie	TEN	
SYSTEM ELECTRONICS		SUB-SYSTEM	SUB-SYSTEM		NENT	REF. NO.	
		X-BAND BEAC	CON	Charging	Valve	13-4	
AVRO PART NO		MANUFACTURER	MAN'F	"R'S PART NO.	AIRCRAFT	EFFECTIVITY	
		Schrader	С	S-V-106	25	201	
OVERHAUL LIFE:	KNOW	N-	ES	TIMATED- 1500	hours		
FUNCTION						-	
		cilitate ground check urizing system.	ting of the	waveguide			
LOCATION			-				
		ed in the air piping l electronic equipme					
ACCESS					М	EN X MINUTES	
		ve the forward secti					
	equipr	ment dorsal fairing	- six latch	es.			
REPLACEMENT PR	OCEDURE				М	EN X MINUTES	
		the charging valve					
	1(0111)	and for ward section	or the art	dorsar rarring.			

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Check that the proper pressure is being supplied. Check for pressure leaks.  FUNCTIONAL CHECKS  MEN X MINUTES  GROUND HANDLING AND GROUND TEST EQUIPMENT Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE	INSPECTION		MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE		supplied.	
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE	FUNCTIONAL CHECKS		MEN X MINUTES
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE	GROUND HANDLING AND GR	OUND TEST EQUIPMENT	
		Pressure Gauge.	
	SPECIAL TOOLS TO REMOVE	OR SERVICE	
REMARKS			
	REMARKS		

# ARROW 1 SERVICE DATA COMPONENT DATA SHEET UNCLASSIFIED

SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO
ELECTRONICS		X-BAND BEACON		Non-return	Valve	13-4
AVRO PART NO.		MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT E	EFFECTIVIT
		James-Pond-Clark	2	24A-4TT	25	201
OVERHAUL LIFE:	KNOW	N-	ES	TIMATED-		
FUNCTION		event the loss of wav pressure source fai		essure in the ev	rent	
LOCATION						
	Fitted	to the waveguide in	the radar	area of the dor	sal.	
ACCESS				<b>***</b>	М	EN X MINUTE
	Disco	- six screws. nnect the sense anter ve the aft dorsal fair		*		ė.
REPLACEMENT PROG	CEDURE				МЕ	EN X MINUTE
	Securi Refit Recon	ct the air lines. e the clamp retaining the aft dorsal fairing nect the sense anten the sense antenna acc	- six late	susceptiformer.		

INSPECTION		MEN X MINUTES	4
	Check the leakage rate during waveguide		'TY
	pressure tests.		
FUNCTIONAL CHECKS		MEN X MINUTES	
		2	
GROUND HANDLING AND GR	ROUND TEST EQUIPMENT		
	Source of air pressure.  Pressure Gauge.		
	External Power Source.		
SPECIAL TOOLS TO REMOVE	OR SERVICE		
REMARKS			
			0

#### COMPONENT DATA SHEET

SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO.
ELECTRONICS		X-BAND BEAC	CON	Flap Attenua	ator	13-4
AVRO PART NO. 7-1362-21	Sin	MANUFACTURER	MAN'F	'R'S PART NO.	AIRCRAFT E	
OVERHAUL LIFE:	KNOWN	V-	ES.	TIMATED- 1500	hours	
FUNCTION	To con	trol the transmissic	n signals	radiated by the	X-Band Bea	con.
LOCATION	Centre	line of the aft dorsa	al section	at station 580.		
ACCESS					МЕ	N X MINUTES
i	Discon	- six screws. mect the sense anten re the aft dorsal fair				
REPLACEMENT PROCE	EDURE				МЕ	N X MINUTES
t ( ) ) )	transm Connec hybrid Refit th Reconr	te the cap from wave nitter and tee section of the component at the tee connection. The aft dorsal fairing nect the sense antennal the sense antennal according to the sense according to the sense antennal according to the sense accordi	n (if fitted the transm - six late na at the s	nitter and at the ches. susceptiformer.		

INSPECTION		MEN X	MINUTES
	Check for security, damage and proper setting.		
FUNCTIONAL CHECKS		MEN X	MINUTES
CECULAR HANDLING AND C	COUNTY TEST FOUNDMENT		
GROUND HANDLING AND GE	Source of Air Pressure. Pressure Gauge. External Power Source.		
SPECIAL TOOLS TO REMOVE	OR SERVICE	7.	
REMARKS			

COMPONENT DATA SHEET

		SUB-SYSTEM X-BAND BEAG	CON	COMPONENT Tee Section and		REF. NO
				Dummy		
AVRO PART NO.		MANUFACTURER	MAN'F'F	R'S PART NO.	AIRCRAFT	EFFECTIVIT
7-1362-25	Si	nclair Radio Lab.			25	201
OVERHAUL LIFE:	KNOWI	V-	EST	IMATED- 1500	hours	
FUNCTION		rmit the use of one a eception of RF energy		both the trans	mission	
LOCATION					2777	
	Dorsa	l electronic equipme	nt area.			
ACCESS		ve the radio compass		101	м	EN X MINUTE
	Discor	<ul> <li>six screws, nnect the sense anten we the aft dorsal fair</li> </ul>		# P		
REPLACEMENT PRO	CEDURE				M	EN X MINUTE

Check for security, damage and corrosion.		1.0	
FUNCTIONAL CHECKS  MEN X MINUTES  GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure.  Pressure Gauge.  External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE	INSPECTION		MEN X MINUTES
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure.  Pressure Gauge.  External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE		Charle for a south of a south	
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE		Check for security, damage and corrosion.	
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
GROUND HANDLING AND GROUND TEST EQUIPMENT  Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE	FUNCTIONAL CHECKS		MEN X MINUTES
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Source of Air Pressure. Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE			
Pressure Gauge. External Power Source.  SPECIAL TOOLS TO REMOVE OR SERVICE	GROUND HANDLING AND G	ROUND TEST EQUIPMENT	
		Pressure Gauge.	
	SPECIAL TOOLS TO REMOVE	OR SERVICE	
REMARKS			
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	REMARKS		

# ARROW 1 SERVICE DATA COMPONENT DATA SHEET NO LASS FILED

SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO.
ELECTRONIC	ELECTRONICS		X-BAND BEACON		ator and Mount	13-4
AVRO PART NO.		MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1362-23	Si	nclair Radio Lab.			252	01
OVERHAUL LIFE:	KNOW	V-	ES.	TIMATED- 1500 h	ours	
FUNCTION		trict the signals app				
LOCATION						
	Aft do:	rsal section - station	590 at c	entre line.		
ACCESS					МЕ	N X MINUTES
	Discon	- six screws.  mect the sense anten  re the aft dorsal fairi				
REPLACEMENT PRO	CEDURE				ME	N X MINUTES
	Fit the Fit and Connec Refit t Reconn	te the caps from wave clamp to the crystal discure the RF connect the flap attenuator he aft dorsal fairing nect the sense antenna accompless the sense accompl	I mount. ection to at the hy - six late a at the s	the crystal mou brid tee. thes. usceptiformer.	nt.	

NSPECTION		MEN X MINUTES	7
	Check for security, damage and proper setting of attenuator.		3
UNCTIONAL CHECKS		MEN X MINUTES	
GROUND HANDLING AND G	SROUND TEST EQUIPMENT  Source of Air Pressure.  Pressure Gauge.  External Power Source.		
SPECIAL TOOLS TO REMOVI	E OR SERVICE		
REMARKS			

COMPONENT DATA SHEET

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SYSTEM		SUB-SYSTEM		COMPON	NENT	REF. NO.
ELECTRONICS		X-BAND BEACON		Waveguide -	X-Band	13-4
AVRO PART NO.	D. MANUFACTURER		MAN'F	R'S PART NO.	AIRCRAFT E	FFECTIVITY
7-1362-191	Si	nclair Radio Lab.			2520	01
OVERHAUL LIFE:	KNOWI	N-	ES <sup>-</sup>	TIMATED- 1500	hours	
FUNCTION		nsfer X-Band RF en	~ ,			er
LOCATION						
	Dorsa	l electronic equipme	nt area.			
ACCESS					МЕ	N X MINUTE
	Discor	- six screws.  nnect the sense anten  ve the aft dorsal fair		*		
	CEDURE				ME	
REPLACEMENT PRO	CEDURE				11.12	N X MINUTES

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				*
INSPECTION		MEN X	MINUTES	)-4
	Check that the unit is securely mounted. Check for pressure leaks.			1900
	•			
FUNCTIONAL CHECKS		MEN X	MINUTES	
GROUND HANDLING AND GR	ROUND TEST EQUIPMENT	<del></del>		
The state of the s	Source of Air Pressure. Pressure Gauge. External Power Source.			
SPECIAL TOOLS TO REMOVE	OR SERVICE			
REMARKS				
				- 0

			# A .	AND SHI		AT THE
SYSTEM		SUB-SYSTEM		COMPON	COMPONENT REF. Not exercise Portion REF. Not exercise REF. Not exe	
ELECTRONIC	CS	X-BAND BEAC	CON			
AVRO PART NO.		MANUFACTURER	MAN'F	R'S PART NO.	AIRCRAF	T EFFECTIVIT
7-1383-65	S	inclair Radio Lab.				25201
OVERHAUL LIFE:	KNOW	'N-	ES <sup>-</sup>	TIMATED- 1500 h	nours	
FUNCTION		ansfer RF energy bet	ween the	receiver-transn	pitter	
LOCATION	In the	leading edge of the f	in.			
ACCESS						MEN X MINUT
		led for the life of the are accessible for l		s.		
REPLACEMENT PROCEDURE		Ξ.				MEN X MINUTE
	Inspec	led for the life of the ction panel for joints between ribs 6 and 7	provided			
					2	

INSPECTION		MEN X MINUTES
	Check joints for leaks.	
FUNCTIONAL CHECKS	*	MEN X MINUTES
COOLING HANDLING AND	O GROUND TEST EQUIPMENT	
SROUND MANDLING AND	Source of Air Pressure.	
	Pressure Gauge. External Power Source.	
SPECIAL TOOLS TO REM	OVE OR SERVICE	
REMARKS		

COMPONENT DATA SHEET

SYSTEM ELECTRONICS		SUB-SYSTEM		COMPON		REF. NO.	
		X-BAND BEACON		Waveguide - Cent: Portion		13-4	
AVRO PART NO.		MANUFACTURER	MAN'F'R	'S PART NO.	AIRCRAFT EFFECTIVI		
7-1383-63	Si	inclair Radio Lab.			25201		
OVERHAUL LIFE:	KNOWI	N-	ESTI	MATED- 1500	hours		
FUNCTION		insfer X-Band RF en e antenna.	ergy betwe	en the receive	r-transmitt	er	
LOCATION	Betwe	en ribs six and sever	n of fin.				
ACCESS					м	EN X MINUTE	
	upper	fin at spar three, st	ation 105.				
REPLACEMENT PRO	CEDURE				М	EN X MINUTE	
	and the Remove Connection	we the caps from the e waveguide elbow. We the waveguide elboot the centre portion of the waveguide elboot per portion. The access panel on the waveguide elboot per portion.	to the lower to the ce	er portion.			

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INSPECTION		MEN X	MINUTES			
CI CI	heck the unit for security and damage. heck for pressure leaks.					
FUNCTIONAL CHECKS		MEN X	MINUTES			
GROUND HANDLING AND GROUI	ND TEST EQUIPMENT					
P	ource of Air Pressure. ressure Gauge. xternal Power Source.					
SPECIAL TOOLS TO REMOVE OR SERVICE						
REMARKS						
	•					