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Avro
CF105
AAMS-
105-2
App.1
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22

Aircraft Equipment List

Appendix I Issue 1

ANALYZED Arrow 2

Model Specification

AAMS/105/2

UNCLASSIFIED

(22)

(30)

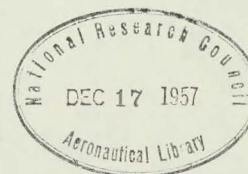
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Unit / Rank / Appointment DSIS 3

ANALYZED

AAMS/105/2
APPENDIX 1
OCTOBER 1957
(Issue 1)

APPENDIX I
TO
MODEL SPECIFICATION
FOR
ARROW 2
SUPERSONIC INTERCEPTOR AIRCRAFT

~~SECRET~~



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INTRODUCTION

1. This Equipment List as defined below is issued to show the airborne equipment installed in the ARROW 2 aircraft.

The list is divided into three parts:

- Appendix 1-A Government Furnished - Contractor Installed Equipment
- Appendix 1-B Government Furnished - Government Installed Equipment
- Appendix 1-C Contractor Furnished - Contractor Installed Equipment

The equipment will be shown in three stages of progress, i.e.:

- (a) When only the quantity and name of part are shown, it implies that no Engineering Instruction has been issued for the purpose of ordering the part.
 - (b) Where the part number has been added, instructions have been issued by the Engineering Department for the purchasing of this part.
 - (c) The specification number, when shown, indicates that the Specification has received at least tentative approval by the R.C.A.F.
2. All items shown are effective for the sixth aircraft (first ARROW 2) unless otherwise indicated.
 3. Amendments to this list will be periodically issued by the Model Specification Section.

ASTRA INTEGRATED ELECTRONICS SYSTEM

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FIRE CONTROL</u>				
	<u>AIRBORNE RADAR</u>				
	Radar modulator transmitter: comprising				
1	Pulser unit				Effect'y Open
1	High voltage power supply unit				"
1	Pulse transformer magnetron assembly				"
	Microwave Group: comprising				
1	High level microwave assembly				"
1	Signal arm microwave assembly				"
1	Low level microwave assembly				"
1	Frequency tuner assembly				"
1	Keep alive assembly				"
1	Programmer assembly				"
1	Mode control assembly				"

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
AAMS/105/2
OCTOBER 1957

. ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FIRE CONTROL</u> (Cont'd)				
	<u>AIRBORNE RADAR</u> (Cont'd)				
	Synchronizer Group: comprising				
1	Timing and display module				Effect'y Open
1	Tracking module				"
1	Function amplifier module				"
1	Azimuth deflection module				"
1	Quasi-Passive ranging				"
	Radar Display Group: comprising				
1	Signal data converter				"
	Pilot's radar display	(Refer to Astra Instruments)			"
	OBS/AI radar display	(Refer to Astra Instruments)			"
	Range and range rate meter	(Refer to Astra Instruments)			"
	Radar Receiver: comprising				
1	IF amplifier				"
1	AGC and error amplifier				"

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CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FIRE CONTROL</u> (Cont'd)				
	<u>AIRBORNE RADAR</u> (Cont'd)				
	Radar Receiver: comprising (Cont'd)				
1	ARC amplifier				Effect y Open
	Airborne Moving Target Indicator (AMTI): comprising				"
1	Driver, delay line				"
1	Amplifier assembly				"
1	Converter, frequency, electronic				"
1	Electronic switch, clutter actuated				"
1	Distribution box				"
	<u>ANTENNA SUBSYSTEM</u>				
1	Antenna drive system				"
1	Data pickoffs				"
1	Radiation system				"

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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FIRE CONTROL</u> (Cont'd)				
	<u>ANTENNA SUBSYSTEM</u> (Cont'd)				
	Antenna control system: comprising				
1	Angle tracking unit				Effect'y Open
1	Antenna drive unit				"
1	Gyro reference unit				"
1	Search controller				"
1	Search stabilization unit				"
1	AC filter unit				"
1	Radar auxiliary unit				"
1	Radar antenna				"
1	IR slaving unit				"
1	<u>OPTICAL SIGHT</u>				"
	<u>COMPUTER</u>				"
1	Range and time servo unit				"
1	Steering unit				"

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CONFIDENTIAL

ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FIRE CONTROL</u> (Cont'd)				
	<u>COMPUTER</u> (Cont'd)				
1	In-range unit				Effect'y Open
1	Firing unit				"
1	Ballistics amplifier unit				"
1	Mode switching box				"
1	Jump angle computer				"
1	<u>STEERING SIGNAL RECORDER</u>				"
	<u>INFARED SUBSYSTEM</u>				
1	Seeker assembly				"
1	Information processing assembly				"
1	IR servo slaving system				"
1	Compressor				"
	<u>LOW VOLTAGE POWER SUPPLIES - RADAR</u>				
1	Power supply, regulated +300v.				"
1	Power supply, regulated +150v.				"

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MODEL SPECIFICATION
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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
AAMS/105/2
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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FIRE CONTROL (Cont'd)</u>				
	<u>LOW VOLTAGE POWER SUPPLIES - RADAR</u> (Cont'd)				
1	Power supply, regulated +65 v.				Effect'y Open
1	Power supply, regulated + and - 28v.				"
1	Power supply, regulated -250v.				"
1	Power supply, regulated -150v.				"
	<u>ACCELEROMETER - LIFT</u>	(Refer to Astra Instruments)			
1	<u>NADAR (RECORDER SIGNAL DATA)</u>				"
1	<u>POWER TIMING RELAYS</u>				"

MODEL SPECIFICATION
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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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CONFIDENTIAL

ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FIRE CONTROL HYDRAULICS</u>				
1	Hydraulic power plant				Effect'y Open
1	Pump and accessories				"
1	Accumulator				"
1	Filter				"
1	Heat Exchanger (air-oil) and accessories				"
1	Heat exchanger (air-oil) magnetron				"

MODEL SPECIFICATION
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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>COMMUNICATION</u>				
	<u>AN/ARC-52 UHF SET: comprising</u>				
1	Antenna selector panel	RCA 5618			6th
1	Receiver - transmitter	RT-332(XN-4)/ARC-52			6th
1	Mounting	MT-1477/ARC-52			Effect'y Open
	Mounting, right side rack (see right side rack AN/APX-25A)				6th
1	Radio set control (OBS/AI)	C-1607/ARC-52			6th
1	Radio set control (Pilot)	614T2 Model 'C' Collins			6th
2	UHF control transfer panel	RCA 5540/5541			6th
	<u>AN/ARR-48 DATA LINK: comprising</u>				
1	Receiver				Effect'y Open
1	Converter				"
1	Control box				"
1	Coupler				"

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MODEL SPECIFICATION
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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>COMMUNICATION</u> (Cont'd)				
	<u>AN/ARR-48 DATA LINK</u> : comprising (Cont'd)				
1	Power supply				Effect'y Open
	<u>AN/AIC-10A INTERCOMMUNICATION EQUIPMENT</u> : comprising				
2	Control panel	C-824A/AIC-10	MIL-C-9306	6.60*	6th
1	Relay assemblies	RE-94A/AIC-10	MIL-C-9405	1.90*	6th
2	<u>ANTENNA SWITCHING UNIT</u>	RCA 5610/5611			6th

*Estimated Weight



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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>NAVIGATION</u>				
	<u>NAVIGATION COMPUTER (DEAD RECKONER):</u> comprising				
1	Ground speed computer				Effecty Open
1	Computer and relays				"
1	Target data computer				"
1	Ground speed integrator				"
1	Position data				"
1	Control, wind data				"
1	Control, target data				"
1	Junction box, amplifier				"
1	NAV/DR switches				"
	Indicator (IDI)	(Refer to Astra Instruments)			
	<u>DAGMAR DOPPLER RADAR: comprising</u>				
1	Antenna				"
1	Power supply				"

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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>NAVIGATION (Cont'd)</u>				
	<u>DAGMAR DOPPLER RADAR: comprising</u>				
1	Janus box				Effect'y Open
1	Tracker				"
1	Pitch drive				"
1	Control				"
1	Checking unit				"
	<u>AN/ARD-501 ECM HOMER: comprising</u>				
1	Power supply				"
1	Comparator				"
1	Converter				"
1	Controls				"
	Indicator				"
		(Refer to Astra Instruments)			
	<u>AN/ARA-25 UHF AUTOMATIC DIRECTION FINDER: comprising</u>				
1	Amplifier				"
1	Amplifier mount				"



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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>NAVIGATION (Cont'd)</u>				
	<u>AN/ARA-25 UHF AUTOMATIC DIRECTION FINDER: comprising (Cont'd)</u>				
1	Antenna				Effecty Open
1	Solenoid relay				"
1	Relay mount				"
	<u>AN/ARN-6 LF/MF RADIO COMPASS: comprising</u>				
1	Receiver Mount	MT-273E/ARN-6 (Modified) RCA Unit No. 0252		6.25	6th
1	Receiver	R-101B/ARN-6 (Modified) RCA Unit No. 6610		34.75	6th
2	Control panel	C-1513/A	MIL-C-8425	4.00	6th
1	Remote tuning drive	ED-400A		2.50	6th
1	Loop antenna	Bendix LPA-6B		8.25	6th
1	Loop cable (6' 0" long)	CG-132/ARN-6 RCAF 10EA-30158		1.31	6th



MODEL SPECIFICATION
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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>NAVIGATION</u> (Cont'd)				
	<u>AN-ARN-6 LF/MF RADIO COMPASS:</u> comprising: (Cont'd)				
1	Susceptiformer	Avro 7-1362-47		2.00	6th
	<u>GYRO MAGNETIC COMPASS, A/C TYPE J4:</u> comprising				
1	Remote compass transmitter	Sperry 620359 RCAF 6B/750		1.00	6th
1	Compensator	Sperry 620783			6th
1	Servo amplifier	Sperry 653-278			6th
1	Control panel	Sperry C-90334			6th
1	Directional gyro	Sperry C-90294			6th
1	Roll correction computer	Sperry			6th

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MODEL SPECIFICATION
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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs.	Appli- cable A/C
		Part No.	Spec. No.		
	<u>IDENTIFICATION</u>				
	<u>AN/APX-25A AIR-TO-GROUND TRANSPONDER:</u> comprising				
1	IFF antenna selector panel	RCA 5619			6th
1	Receiver-transmitter	RT-279A/APX	MIL-R-25125	38.00	6th
1	Coder, transponder set	KY-95/APX-25			6th
1	Control, transponder set	C-1158/APX (Modified)		3.70*	6th
1	Control, coder group	C-1128/APX-25			6th
1	Mounting, transponder set	MT-362A/A	MIL-M-5743 or C-16R91 (AER)	3.60*	Effect'y Open
1	Mounting, coder	MT-1151/APX-25			"
1	Mounting, right side rack - partial system for AN/ARC-52 and AN/APX-25A	RCA 0269			6th
	<u>AN/APX-26 AIR-TO-AIR INTERROGATOR:</u> comprising				
1	Synchronizer, electrical				Effect'y Open
1	Transmitter				"
		*Estimated Weight			

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MODEL SPECIFICATION
APPENDIX 1-A
GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>IDENTIFICATION (Cont'd)</u>				
	<u>AN/APX-26 AIR-TO-AIR INTERROGATOR:</u> comprising (Cont'd)				
1	Amplifier, converter				Effect'y Open
1	Amplifier, oscillator control				"
1	Amplifier, synchronizer				"
1	Control				"
	<u>AN/APX-27 AIR-TO-AIR TRANSPONDER:</u> comprising				
1	Power supply				"
1	Amplifier oscillator control				"
1	Amplifier converter				"
1	Transmitter radio				"
1	Amplifier synchronizer				"
1	Coupler, directional				"
1	Isolator RF				"
1	Duplexer				"
1	Cavity, tuned				"

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FLIGHT CONTROL AND FLIGHT DATA</u>				
	<u>FLIGHT CONTROL</u>				
1	Amplifier-calibrator				Effect'y Open
1	Function selector panel				"
1	Integrated coupler				"
	<u>FLIGHT DATA SUBSYSTEM</u>				
1	Vertical and Heading Reference System				"
	<u>Sensing Equipment: comprising</u>				
1	Stable platform				"
	Transducers, differential pressure				"
	Transducers, static pressure				"
	Transducers, air temperature				"
	Transducers, angle of attack				"
	Accelerometers				"
	Barometric altitude measuring device				"
	Static pressure compensation				"

AMS

MODEL SPECIFICATION
APPENDIX 1-A
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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FLIGHT CONTROL AND FLIGHT DATA</u> (Cont'd)				
	<u>FLIGHT DATA SUBSYSTEM (Cont'd)</u>				
1	Total temperature sensor	RCA Unit No. 4320			6th
1	<u>Central Air Data Computer:</u> comprising	Minn. Honeywell D-HG32A-1			6th
	Rack (air data computer)	Minn. Honeywell QG-92A-1			
	Static pressure transducer				
	Total pressure transducer				
	Log R computer				
	Static error corrector				
	Log psi. computer				
	Differential pressure computation				
	Air density computers				
	Total temperature computer				
	True air speed computer				
	Angle of attack repeater				

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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>INSTRUMENTS</u>				
2	Integrated destination display	CDC No. RCA Unit No. 6670/6180			6th
1	Pilot's radar display				
1	OBS/AI radar display				
1	Range and range rate meter				Effect'y Open
1	Accelerometer				"
1	Mach indicator	Minn. Honeywell JG168A-1			6th
1	Flight director attitude indicator	Minn. H neywell JG227A-1			6th
1	Air speed indicator				Effect'y Open
1	Command and target altitude				"
1	Altitude data counter				"
1	True air speed counter				"
1	ECM radar homer indicator				"
1	FD/AI amplifier calibrator	MH D-BG114A-1			6th

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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>INSTRUMENTS (Cont'd)</u>				
1	Mach indicator amplifier calibrator	MH D-BG 94A-1			6th
1	Rack, amplifier calibrator	MH D-QG103A-1			6th
1	Vertical gyro	MH GG 48B-1			6th



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ASTRA INTEGRATED ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>MISSILE AUXILIARIES</u>				
2	Range slaving unit				Effect'y Open
2	Angle slaving unit				"
2	Optical mode unit				"
1	Generator unit, 3.5 kc				"
1	Power control unit				"
1	Auxiliary power supply				"
1	ASTRA I angle slaving adapter				"
	Sparrow II Missile Auxiliaries Group				
1	Missile relay unit				"
1	Armament panel				"
1	Range gate				"

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INSTRUMENTS

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Altimeter (0-80,000 ft)				6th
1	Accelerometer				6th
1	Compass, magnetic standby				6th
1	Altimeter, cabin				6th
2	Clock (8 day)				6th
1	Rate of climb indicator (0-6,000 ft./min.)				6th
1	Turn and bank indicator				6th

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
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CONFIDENTIAL

PROPULSION

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs.	Appli- cable A/C
		Part No.	Spec. No.		
2	Engine, gas turbine c/w afterburner	Orenda Iroquois series			6th



MODEL SPECIFICATION
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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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APPENDIX 1-B

GOVERNMENT FURNISHED - GOVERNMENT INSTALLED EQUIPMENT

This list to be included upon receipt of information
from the R.C.A.F.

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AIR CONDITIONING

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Heat Exchanger	Avro 7-2254-1001			6th
1	Tank, Water Evaporator	Avro 7-2254-1003			6th
1	Ground Connection				6th
1	Turbine and Compressor	Avro 7-2254-1002			6th
	<u>TEMP. CONTROL SYSTEM - COCKPIT</u>				
1	Valve, Control				6th
1	Controller, Cabin Temp.				6th
1	Sensing Element, Temp.				6th
1	Rheostat Control				6th
	<u>TEMP. CONTROL SYSTEM - RADAR</u>				
1	Valve, Control				6th
1	Controller				6th
1	Sensing Element, Temp.				6th

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MODEL SPECIFICATION
APPENDIX 1-C
CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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AIR CONDITIONING (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>PRESSURE SYSTEM - COCKPIT</u>				
1	Valve, Outflow	Avro 7-2252-15093			6th
1	Controller	Avro 7-2252-15205			6th
1	Filter	Avro 7-2252-316			6th
1	Valve, Pressure Relay	Avro 7-2252-15195			6th
1	Valve, Shut-Off, Ground Test	Avro 7-2252-423			6th
	<u>SAFETY SYSTEM - COCKPIT</u>				
1	Valve, Safety				6th
1	Valve, Safety Controller				6th
1	Valve, Inward Relief				6th
2	Valve, Reducing (Engine Bleed Pressure)	Avro 7-2254-15023			6th
1	Valve, Duct Relief	Avro 7-2254-15618			6th
1	Valve, System, Shut-Off	Avro 7-2254-16013			6th
1	Valve, Inward Relief				6th
2	Valve, Shut-Off (Engine Bleed)				6th

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AIR CONDITIONING (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Valve, Cabin Inlet and Non Return	Avro 7-2252-15193			6th
1	Valve, Emergency Ram Air Non Return (Cabin)				6th
2	Valve, Non Return (Engine Bleed)	Avro 7-2254-16005	Avrocan E-488		6th
1	Valve, Shut-Off, Radar Nose	Avro 7-2252-15203			6th
1	Valve, Shut-Off, Emergency Ram	Avro 7-2252-15201			6th
1	Valve, Cockpit By-Pass				6th
1	Actuator, Reverse Flow Valve	Avro 7-2254-15611			6th
1	Actuator, Reverse Flow Valve	Avro 7-2254-15612			6th
1	Thermostat, Ram Air				6th
2	Switch, Pressure (Engine Bleed)	Avro 7-2256-15021			6th



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CANOPY ACTUATION

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Actuator, Canopy (Normal)	Avro 7-1152-9	Avrocan E-277	3.50*	6th
2	Actuator, Canopy (Emergency)				
2	Valve, Sequence Latch Jack				
2	Cartridge, Canopy Emergency Opening				
2	Firing Unit, Canopy Cartridge				
2	Recuperator, Damping Jack				
*Estimated Weight					



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DAMPING SYSTEM

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Selector, Function	Avro 7-1352-117			6th
1	Accelerometer, Lateral Scheduling	Avro 7-1352-118			6th
1	Rack, "G" Limiter	Avro 7-1354-228			6th
1	Accelerometer, Lateral Switching	Avro 7-1354-229			6th
1	Accelerometer, Normal	Avro 7-1354-231			6th
2	Accelerometer, Lateral	Avro 7-1354-232			6th
1	Calibrator, "G" Limiter	Avro 7-1354-233			6th
2	Accelerometer, Normal "G" Limiter	Avro 7-1354-234			6th
1	Accelerometer, Normal Switching	Avro 7-1354-236			6th
2	Gyro, Yaw Rate	Avro 7-1362-231			6th
1	Amplifier Calibrator	Avro 7-1362-232			6th
1	Mount, Rate Gyro	Avro 7-1362-233			6th
1	Gyro, Pitch Rate	Avro 7-1362-234			6th
1	Gyro, Roll Rate	Avro 7-1362-235			6th
1	Accelerometer, Roll Rate Limiting	Avro 7-1364-64			6th
1	Transmitter, Stick Position	Avro 7-1358-13			6th
1	Accelerometer, Lateral Switching	Avro 7-1351-33			6th
1	Shock Mount Assembly	Avro 7-1362-295			6th

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ELECTRICAL

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	Actuator, Canopy (Normal)	(Refer to Canopy Actuation)			6th
2	Generator, 40 KVA (Oil Cooled) A.C.	Avro 7-1158-15023		58.00*	6th
1	Battery, Storage (Hermetically Sealed)	Avro 7-1152-11	Avrocan E-209	45.00	6th
1	Control Box, Master Warning				6th
1	Flasher, Navigation Light	Avro CS-F-106	Avrocan E-224	2.10*	6th
1	Flasher, Light (U/C Warning)	Tungsol Type 606		1.50*	6th
1	Mounting, Flasher	Electronic Components Limited 19101-1			6th
1	Light, Red - Wing Tip L.H.	Avro 1CS-L-129	Avrocan E-229	0.20*	6th
1	Light, Green - Wing Tip R.H.	Avro 2CS-L-129	Avrocan E-229	0.80*	6th
1	Light, Red - Fin Tip	Avro 7-1183-11	Avrocan E-229	0.80*	6th
1	Light, White - Fin Tip	Avro 7-1183-12	Avrocan E-229	0.80*	6th
1	Light, Landing	AN 3129		2.00*	6th
1	Light, Taxi	AN 3129		2.00*	6th
16	Lamp, Incandescent T.I. -3/4 Bulb				6th
2	Indicator, Light (Case Grounded)				6th
2	Light, Cockpit Utility	Grimes D7825	*Estimated Weight	0.35	6th

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ELECTRICAL (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In lbs.	Appli- cable A/C
		Part No.	Spec. No.		
24	Indicator, Warning (Cockpit)				6th
2	Indicator, Warning Dual	Avro 1CS-I-109	MIL-L-3661	0.08*	6th
1	Indicator, Warning Dual	Avro 2CS-I-109	MIL-L-3661	0.08*	6th
1	Indicator, Warning Dual	Avro 3CS-I-109	MIL-L-3661	0.08*	6th
15	Indicator, Warning (Press to Test)	Avro 1CS-I-107	Avrocan E-318	0.08*	6th
29	Panel Light Assembly				6th
39	Light Fixture, Instrument				6th
2	Detector, Power Failure				6th
1	Transformer Rectifier and Control Panel				6th
5	Transformer, Internal Lights	Avro CS-T-134	Avrocan E-352	1.75*	6th
1	Transformer, Primary 200/115V 3 Phase 400 Cycle - Secondary 115V	Avro 7-1152-31	Avrocan E-291	2.00*	6th
2	Transformer, Linear Variable Differential	Avro 7-1100-23		1.00*	6th
1	Panel, Landing Gear Select Control	Avro 7-1152-15023		1.50*	6th
1	Relay, SPDT - 5A - Class A	Avro CS-R-128			
22	Relay, 4 PDT - 10A - Class O	MS 25024-2	MIL-R-6106	0.80*	6th

*Estimated Weight



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ELECTRICAL (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
18	Relay, 2 PDT - 10A - Class B	Avro CS-R-122	MIL-R-6106A	0.35*	6th
2	Relay, 3 PST - 25A - Class B	MS 24143-1	MIL-R-6106	1.45*	6th
2	Relay, PST - 50A - Class B	MS 24140-1	MIL-R-6106	0.85*	6th
1	Relay, PST - 50A - Class B	MS 24140-2	MIL-R-6106	0.85*	6th
	Relay, 3 PST - 50A - Class B			2.50*	6th
	Relay, SPDT - 50A - Class A				6th
	Relay, SPST - 100A - Class B				6th
	Relay, 3 PST - 100A - Class B				6th
4	Relay, Latch In DPDT Class A	Avro CS-R-133	MIL-R-6106A	0.50*	6th
	Relay, Time Delay	(Refer to Ice Elimination Section)			6th
	Relay, 3 PST - 25A Class B				
1	Signal, Emergency Warning	AN 5776			6th
1	Panel and Rack (Cabinet)	Avro 7-1156-15021			6th
1	Panel Selector	Avro 7-1152-15023			6th
	Sequence Control Units	Refer to Fuel System			
	Potentiometer, Position, Control Surface	(Refer to Flying Control System)			6th
		*Estimated Weight			

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ELECTRICAL (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	Potentiometer, Triple Element Rectilinear	(Refer to Flying Control System)			6th



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ELECTRONICS

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>X-BAND WAVEGUIDE AND ANTENNA ASSY.</u> comprising:-				
1	Waveguide, Upper Portion X-Band	Avro 7-1383-15021	Avrocan E-404	0.80	6th
1	Waveguide, Centre Portion X-Band	Avro 7-1383-15023	Avrocan E-404	0.56	6th
1	Waveguide, Lower Portion X-Band	Avro 7-1383-15025	Avrocan E-404	1.98	6th
1	Waveguide, Elbow X-Band	Avro 7-1383-15027	Avrocan E-404	0.30	6th
2	Half Clamp for Waveguide	Avro 7-1383-75	Avrocan E-404	0.10	6th
2	Half Clamp for Waveguide	Avro 7-1383-76	Avrocan E-404	0.10	6th
8	Waveguide Seal, Round, High Temp.	Avro CS-G-109	Avrocan E-404	0.02	6th
2	Waveguide Seal, Rectangular, High Temperature	Avro CS-G-110	Avrocan E-404	0.02	6th
1	Dehydrator				6th
1	Valve, Check				6th
1	Valve, Charging				6th
1	Antenna X-Band	Avro 7-1383-57	Avrocan E-407	2.0	6th
	<u>U.H.F. COMMUNICATION AN/ARC-52</u>				
1	Antenna, (Fin) U.H.F. - L-Band	Avro 7-1383-55		7.00*	6th
1	Antenna, (Lower) U.H.F. Flush Mtg.				6th

*Estimated Weight

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ELECTRONICS (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>MISCELLANEOUS</u>				
1	Radome, Nose	Avro 7-1051-17521			6th
1	Fin Cap Fairing				6th
1	Dorsal Fairing				6th
4	Coaxial Plug, Special Type "N"	Avro CS-C-161		0.10	6th
1	Coaxial Jack, Special Type "N"	Avro CS-C-160		0.10	6th
6	Coaxial Plug, Special Type "HN"	Avro CS-C-159		0.10	6th
1	Coaxial Jack, Special Type "HN"	Avro CS-C-158		0.10	6th
1	Actuator, Rotary, Access Door, Elec. Comp.	Avro 7-1354-12	Avrocan E-347	1.50*	6th
6	Relay, 4 PDT Hermetically Sealed				6th
2	Relay, 4 PDT				6th
1	Micro-Switch	Minn. Honeywell MS 24331-1		0.50*	6th
1	Micro-Switch (with Roller Plunger)	Minn. Honeywell 21EN9-6		0.25	6th
2	Jack, Coaxial, Special Type "HN"	Avro CS-C-168		0.10	6th
2	Jack, Coaxial, Special Type "N"	Avro CS-C-170		0.10	6th
		*Estimated Weight			

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MODEL SPECIFICATION
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ENGINE INSTALLATION

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs.	Appli- cable A/C
		Part No.	Spec. No.		
	Generator A.C. 40 KVA Oil Cooled	(Refer to Electrical Section)			6th
2	Constant Speed Drive	Avro 7-2995-15021			6th
2	Drive Shaft, Engine to Accessory Gear Box				6th
2	Drive Shaft, Vertical	Avro 7-2958-15023	Avrocan E-206		6th
1	Gear Box, Accessory L.H.	Avro 7-2958-15025	Avrocan E-206	48.06	6th
1	Gear Box, Accessory R.H.	Avro 7-2958-15026	Avrocan E-206	48.06	6th
2	Gear Box, Accessory Input	Avro 7-2958-15011	Avrocan E-206	26.97	6th
1	Gear Box, Fuel Booster Pump L.H.	Avro 7-2958-13	Avrocan E-206	5.80	6th
1	Gear Box, Fuel Booster Pump R.H.	Avro 7-2958-14	Avrocan E-206	5.80	6th
2	Gear Box, Top Corner	Avro 7-2962-15021	Avrocan E-206	7.00*	6th
2	Bearing, Drive Shaft Support	Avro 7-2958-11	Avrocan E-206	2.20	6th
2	Drive Shaft, Forward Horizontal	Avro 7-2958-173		1.51	6th
2	Drive Shaft, Aft Horizontal	Avro 7-2958-175		1.20	6th
2	Heat Exchanger (Air to Oil) Gear Box Oil				6th
2	Drive Shaft, Engine to Gear Box				6th
2	Heat Exchanger, Constant Speed Drive and Generator Cooling Oil				6th
		*Estimated Weight			6th

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ENGINE INSTALLATION (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt.In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Starter, Motor, Pneumatic				6th
2	Switch, Pressure, Oil Differential				6th
2	Filter, Gear Box, Oil System				6th
4	Valve, Pressure Oil Filling				6th
2	Valve, Drain				6th
2	Computer-Transducer Pack				6th
	Indicator, Engine Performance	(Refer to Instruments C.F.E.)			6th
2	Transducer, Nozzle Area				
	<u>ENGINE CONTROLS</u>				
2	Tension Regulator				6th
1	Throttle Box				6th
4	Universal Jack				6th

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FIRE PROTECTION

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1 Set	Detection System - Aircraft Fire				6th
1	Fire Extinguishing Agent Container and Discharge Valve Assembly Note: - Assy. includes Bottle, Valve Discharge, and Valve Shuttle				6th



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FUEL SYSTEM

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Adaptor, Pressure Fuel Servicing	Avro 7-1662-447	Avrocan E-243	3.68	6th
2	Cap, Pressure Fuel Servicing	Avro 7-1662-471	Avrocan E-271	0.70*	6th
2	Valve, Drain Condensate, Tank 1 & 2	Avro 7-1656-8	Avrocan E-368	0.30*	6th
2	Valve, Drain Condensate, Tank 3	Avro 7-1662-183	Avrocan E-368	0.40	6th
2	Valve, Drain Condensate, Tank 4	Avro 7-1662-189	Avrocan E-368	0.30*	6th
1	Valve, Drain Condensate, Tank 5 L.H.	Avro 7-1662-185	Avrocan E-368	0.30*	6th
1	Valve, Drain Condensate, Tank 5 R.H.	Avro 7-1662-186	Avrocan E-368	0.40	6th
6	Valve, Drain Condensate, Tank 6, 7 & 8	Avro 7-1662-12	Avrocan E-368	0.30*	6th
1	Filter, Hot Air	Avro 7-1654-7	Avrocan E-348	3.10*	6th
2	Limiter, Air Flow				6th
1	Pump, Booster L.H.	Avro 7-1662-583	Avrocan E-203	24.00*	6th
1	Pump, Booster R.H.	Avro 7-1662-584	Avrocan E-203	24.00*	6th
2	Valve, Combined Transfer and Re- fueling Shut-Off	Avro 7-1662-15017			6th
22	Valve, Fuel No Air				6th
2	Valve, Air Pressure Regulator (Absolute Pressure)	Avro 7-1658-15093			6th
*Estimated Weight					

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FUEL SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
14	Valve, Level Sensing (Pressure Fuel Servicing) Type 1	Avro 7-1600-12	Avrocan E-337	1.58	6th
2	Valve, Negative "G" and Low Air Admission	Avro 7-1662-1285		0.75	6th
4	Valve, Air Release	Avro 7-1600-19	Avrocan E-225	2.41	6th
2	Valve, Air Pressure Relief	Avro 7-1656-15029	Avrocan E-288	2.94	6th
12	Valve, Shut-Off (Pressure Fuel Servicing)	Avro 7-1600-11	Avrocan E-311	1.66	6th
2	Valve, Fuel Non Return	Avro 7-1662-15021			6th
5	Valve, Fuel Shut-Off 2½" Diameter (28 Volt)	Avro 7-1600-61	Avrocan E-233	4.90	6th
2	Valve, Gate 2½" T.S. (Manually Operated)	Avro 7-1662-15015	Avrocan E-428		6th
4	Valve Element, Swing Check				6th
4	Sensor, Liquid Level	Avro 7-1662-981	Avrocan E-362	0.26	6th
1	Sensor, Fuel, Long Range Tank	Avro 7-1662-981	Avrocan E-362	0.26	6th
	Tank Units		(Refer to Instrument List)		6th
2	Switch, Fuel Pressure	Avro 7-1656-51	Avrocan E-422	0.88	6th
		*Estimated Weight			

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FUEL SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Sequence Control Unit				6th
1	Sequence Control Unit				6th

CONFIDENTIAL

FLYING CONTROLS

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs.	Appli- cable A/C
		Part No.	Spec. No.		
	<u>ELEVATOR</u>				
1	Feel and Trim Unit	Avro 7-1562-247	Avrocan E-419	4.75*	6th
1	Regulator, Cable Tension, Quadrant Type	Avro 7-1552-165		6.00*	6th
2	Rod End, Differential Servo	Avro 7-3262-213		7.00	6th
	<u>AILERON</u>				
1	Feel and Trim Unit	Avro 7-1552-341	Avrocan E-419	4.34	6th
1	Regulator, Cable Tension, Quadrant Type	Avro 7-1552-165		6.00*	6th
2	Regulator, Cable Tension	Avro 7-1562-51	Avrocan E-419	3.22	6th
2	Rod End, Differential Servo	Avro 7-3264-175			6th
2	Cable Guard	Avro 7-1552-139		0.08*	6th
	<u>RUDDER</u>				
1	Actuator, "q"	Avro 7-1583-61		3.00*	6th
1	Amplifier Control, Magnetic	Avro 7-1583-165		3.00	6th
1	Actuator, Trim Unit	Avro 7-1583-63		3.40*	6th
		*Estimated Weight			



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*Estimated Weight

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FOR INSTALLED

FURNISHINGS

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Seat, Structure Assy. (Pilot and Observer/AI)				6th
2	Gun, Ejection				6th
2	Cartridge, Primary				6th
4	Cartridge, Auxiliary				6th
2	Cartridge, Drogue				6th
2	Parachute (Complete with Harness)				6th



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HYDRAULICS - UTILITY SYSTEM

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>POWER CIRCUIT</u>				
1	Accumulator, Floating Piston (200 cu. in.)	Avro 7-1958-12	Avrocan E-210	15.30	6th
1	Accumulator, Floating Piston (80 cu. in.)	Avro 7-1956-381	Avrocan E-210	8.25*	6th
1	Accumulator, 5" Dia. Spherical	Avro 7-1958-185			6th
1	Compensator, Single Pressurized	Avro 7-1956-37	Avrocan E-316	37.00	6th
2	Filter, 40 GPM Bowl Type H.P.	Avro 7-1956-23		10.15*	6th
1	Gauge, Bleed Drain Sight	Avro CS-G-108	Avrocan E-247	0.11	6th
1	Regulator, Pressure, 40 GPM	Avro 7-1958-51		5.50*	6th
2	Pump, Constant Delivery				6th
1	Valve, Pressure Control				6th
2	Valve, Air Charging and Gauge	Avro CS-V-104	Avrocan E-306	0.75*	6th
1	Valve, Manual Dump	Avro 7-1994-12	Avrocan E-342	0.55*	6th
1	Switch, Pressure Warning Type I				6th
1	Switch, Pressure Warning Type II				6th
2	Filter Element, 40 GPM 4000 psi	Avro 7-3258-25	Avrocan E-399	0.90	6th
1	Valve, By-Pass Control	Avro 7-1956-353	Avrocan E-469	3.00*	6th

*Estimated Weight

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HYDRAULICS - UTILITY SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>POWER CIRCUIT</u> (Cont'd)				
1	Valve, Thermal By-Pass	Avro 7-1956-383		1.89	6th
1	Gauge, Reduced Press.				6th
1	Heat Exchanger L.H. (Air to Oil)				6th
	Heat Exchanger (Oil to Fuel)	(Refer to Hyd. Flying Controls)			
1	Valve, Solenoid Shut-Off	Avro 7-1956-569		1.00	6th
	<u>HYDRAULIC, LANDING GEAR</u>				
2	Swivel (High Pressure) M/G Jack	Avro 7-1962-35	Avrocan E-373	2.00	6th
2	Swivel (Return) M/G Jack	Avro 7-1962-37	Avrocan E-373	1.00	6th
2	Elbow Swivel, N/G Door Jack	Avro 7-1952-25	Avrocan E-310	0.95*	6th
2	Elbow Swivel, N/G Door Jack	Avro 7-1952-22	Avrocan E-310	0.70	6th
1	Jack, M/G Operating L.H.				6th
1	Jack, M/G Operating R.H.				6th
2	Swivel Assy. M/G Downlock Release	Avro 7-1962-63	Avro an E-446	1.00*	6th
1	Jack, N/G Operating			11.00	6th
2	Jack, M/G Door	Avro 7-1962-23	Avrocan E-320	13.00	6th
		*Estimated Weight			



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HYDRAULICS - UTILITY SYSTEM (Cont'd)

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>HYDRAULIC LANDING GEAR (Cont'd)</u>				
1	Jack, N/G Door	Avro 7-1952-12		5.28	6th
2	Jack, M/G Uplock Release	Avro 7-1962-15023	Avrocan E-305	0.70	6th
6	Jack, M/G Door Uplock Release	Avro 7-1962-15025	Avrocan E-304	0.55	6th
1	Jack, N/G Uplock Release	Avro 7-1052-1141	Avrocan E-336		6th
1	Jack, N/G Door Uplock Release	Avro 7-1952-24		1.77	6th
1	Valve, Selector	Avro 7-1956-15011		4.55	6th
3	Valve, Transfer	Avro 7-1952-19		1.60	6th
6	Valve, Sequence	Avro 7-1900-11		1.09	6th
3	Valve, Shuttle	Avro 7-1952-16		0.44	6th
1	Valve, Flow Controller N/G	Avro 7-1952-195	Avrocan E-430	0.32	6th
2	Valve, Flow Controller M/G	Avro 7-1962-65	Avrocan E-430	0.57	6th
1	Valve, Fixed Orifice Restrictor N/G	Avro 7-1952-194		0.32	6th
2	Valve, Fixed Orifice Restrictor M/G	Avro 7-1962-67		0.32	6th
	<u>EMERGENCY AIR PRESSURE</u>				
1	Bottle, Air Storage (5000 psi)	Avro 7-1952-14	Avrocan E-335	11.70*	6th

*Estimated Weight



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HYDRAULICS - UTILITY SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>EMERGENCY AIR PRESSURE (Cont'd)</u>				
1	Belt, Air Storage Bottle	Avro 7-1952-172	Avrocan E-335	0.436	6th
1	Valve, Air Charging and Gauge	Avro CS-V-104	Avrocan E-306	0.75*	6th
1	Valve, Air Pressure Relief (5500 psi)	Avro 7-1952-31		0.14*	6th
1	Valve, Emergency Pneumatic	Avro 7-1952-13	Avrocan E-313	0.59	6th
	<u>NOSE WHEEL STEERING</u>				
2	Elbow, Swivel	Avro 7-1952-29	Avrocan E-310	0.528	6th
1	Valve, Solenoid Selector	Avro 7-1952-23		1.89	6th
1	Jack	Avro 7-1991-17			6th
1	Filter, In Line Type H.P. 4 GPM				6th
1	Valve, Control	Avro 7-1991-15			6th
	<u>WHEEL BRAKES</u>				
4	Detector, Anti-Skid				Effecty Open
2	Valve, Anti-Skid Pressure Control				Effecty Open

*Estimated Weight



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HYDRAULICS - UTILITY SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/G
		Part No.	Spec. No.		
	<u>WHEEL BRAKES (Cont'd)</u>				
1	Swivel Assy., M/G L.H.	Avro 7-1992-7	Avrocan E-211	14.90	6th
1	Swivel Assy., M/G R.H.	Avro 7-1992-8	Avrocan E-211	14.90	6th
2	Valve, Brake Control	Avro 7-1954-11		4.75	6th
2	Valve, Shuttle	Avro 7-1992-107		0.47	6th
4	Adaptor, Wheel Brake Unit	Avro 7-1992-45	Avrocan E-398	0.116	6th
	<u>SPEED BRAKE SUB-SYSTEM</u>				
2	Jack, Speed Brake	Avro 7-1956-7	Avrocan E-357	9.00*	6th
4	Swivel Joint, Universal for 3/8" Diameter Tubing	Avro 7-1956-31	Avrocan E-310	0.75*	6th
2	Swivel Joint, Universal for 3/8" Diameter Tubing L.H.	Avro 7-1956-33	Avrocan E-310	0.60*	6th
2	Swivel Joint, Universal for 3/8" Diameter Tubing R.H.	Avro 7-1956-34	Avrocan E-310	0.60*	6th
1	Valve, Speed Brake Selector	Avro 7-1956-13	Avrocan E-359	3.60	6th
		*Estimated Weight			

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HYDRAULICS - UTILITY SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>ARMAMENT PACK</u>				
1	Six Valve Assembly	Avro 7-1994-52			Effect'y Open
1	Valve Ass'ly (Drag Link Door Selector)	Avro 7-1994-53	Avrocan E-521		"
2	Jack, Forward (Forward Missile)	Avro 7-1994-29			"
2	Jack, Forward (Aft Missile)	Avro 7-1994-32			"
2	Jack Rear (Forward Missile)	Avro 7-1994-31			"
2	Jack, Rear (Aft Missile)	Avro 7-1994-33			"
1	Valve, Restrictor, Hydraulic (Drag Link Doors)	Avro 7-1994-42			"
2	Valve, Restrictor, Hydraulic (Fwd. Missile Door)	Avro 7-1994-41			"
2	Valve, Restrictor, -6	Avro 7-1994-55			"
2	Valve, Restrictor, -8	Avro 7-1994-61			"
4	Jack, Uplock Release	Avro 7-1994-28			"
4	Valve, Compensating	Avro 7-1994-37			"
2	Regulator, Flow, 4 GPM	Avro 7-1994-39			"

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HYDRAULICS - UTILITY SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>ARMAMENT PACK (Cont'd)</u>				
2	Regulator, Flow, 16 GPM	Avro 7-1994-43			Effect'y Open
10	Jack, Wing & Fin Door	Avro 7-1994-27			"
1	Valve, Thermal Relief	Avro 7-1994-26			"
1	Valve, Restrictor (Drag Link Doors)	Avro 7-1994-77			"



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HYDRAULICS - FLYING CONTROLS

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FLYING CONTROL SYSTEM ITEMS</u>				
2	Accumulator (25 cu. in.)	Avro 7-3258-15021			6th
2	Compensator 475 cu. in. (90 psi)	Avro 7-3258-37	Avrocan E-231	27.00	6th
2	Filter Body H.P. 40 GPM Bowl Type	Avro 7-3258-43	Avrocan E-249	12.25*	6th
4	Filter Element 7 GPM (Aileron)	Avro 7-3264-14	Avrocan E-330	0.29*	6th
2	Filter Element 4 GPM	Avro 7-3283-9	Avrocan E-330	0.24*	6th
4	Filter Element 40 GPM 4000 psi	Avro 7-3258-25	Avrocan E-399		6th
2	Gauge - Bleed Sight Drain	Avro CS-G-108	Avrocan E-247	0.11	6th
1	Heat Exchanger Hyd. (Oil to Fuel) C/W By-Pass Valves L.H.	Avro 7-3256-15013		23.20	6th
1	Heat Exchanger Hyd. (Oil to Fuel) C/W By-Pass Valves R.H.	Avro 7-3256-15014		23.20	6th
2	Manifold H.P. Pump Delivery	Avro 7-3258-16		2.00*	6th
4	Pump, Variable Delivery				6th
2	Valve, Pressure Control				6th
2	Valve, Hyd. Check (4000 psi)	Avro CS-V-103-10	Avrocan E-208	0.53	6th
2	Valve, Air Charging and Gauge	Avro CS-V-104	Avrocan E-306	0.75*	6th
		*Estimated Weight			

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MODEL SPECIFICATION
APPENDIX 1-C
CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
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HYDRAULICS - FLYING CONTROLS (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>FLYING CONTROL SYSTEM ITEMS</u> (Cont'd)				
2	Switch, Pressure Warning Type I				6th
2	Gauge, Reduced Pressure				6th
2	Indicator, Fluid Level	Avro 7-3258-145		0.40*	6th
2	Thermometer, Fluid Temperature	Avro 7-3258-327		0.40	6th
	<u>ELEVATOR</u>				
1	Actuator L.H.	Avro 7-3262-15	Avrocan E-205	80.51*	6th
1	Actuator. R.H.	Avro 7-3262-18	Avrocan E-205	80.51*	6th
2	Servo, Differential	Avro 7-3260-11		6.00	6th
1	Servo, Parallel Type I	Avro 7-3262-165	Avrocan E-297	7.00	6th
2	Valves, Power Control	Avro 7-3262-33		3.00	6th
	<u>AILERON</u>				
1	Actuator L.H.	Avro 7-3264-23	Avrocan E-272	36.51*	6th
1	Actuator R.H.	Avro 7-3264-24	Avrocan E-272	36.51*	6th
2	Servo, Differential	Avro 7-3260-11		6.00	6th

*Estimated Weight

MRG

MODEL SPECIFICATION
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HYDRAULICS - FLYING CONTROLS (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>AILERON</u> (Cont'd)				
1	Servo, Parallel Type 2	Avro 7-3262-167	Avrocan E-297	7.00	6th
2	Valve, Power Control	Avro 7-3264-12		3.00*	6th
	<u>RUDDER</u>				
1	Actuator	Avro 7-3283-5	Avrocan E-278	23.50*	6th
1	Servo, Differential	Avro 7-3283-7		9.40	6th
1	Valve, Power Control	Avro 7-3283-8		3.00	6th



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OCTOBER 1957

ICE ELIMINATION

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt.In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>AIRFRAME DE-ICING</u>				
1	Boot L.H.	Avro 7-2055-91		2.64*	6th
1	Boot R.H. Intake Ramp De-Icer Boot No. 1	Avro 7-2055-92		2.64*	6th
1	Boot L.H.	Avro 7-2055-15021		10.86*	6th
1	Boot R.H. Intake Ramp De-Icer Boot No. 2	Avro 7-2055-15022		10.86*	6th
1	Boot L.H.	Avro 7-2055-15025		4.11*	6th
1	Boot R.H. Intake Lip De-Icer Boot No. 3	Avro 7-2055-15026		4.11*	6th
1	Boot L.H.	Avro 7-2055-97		8.18*	6th
1	Boot R.H. Intake Lip De-Icer Boot No. 4	Avro 7-2055-98		8.18*	6th
1	Boot L.H.	Avro 7-2055-101		3.02*	6th
1	Boot R.H. Intake Lip De-Icer Boot No. 5	Avro 7-2055-102		3.02*	6th
1	Boot L.H.	Avro 7-2055-15031		2.11*	6th
1	Boot R.H. Intake Lip De-Icer Boot No. 6	Avro 7-2055-15032		2.11*	6th
1	Boot L.H.	Avro 7-2055-15035			6th
1	Boot R.H. Intake Ramp De-Icer Boot No. 7	Avro 7-2055-15036			6th
1	Controller Electrical	Avro 7-2052-13	Avrocan E-214		6th
		*Estimated Weight			

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ICE ELIMINATION (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>AIRFRAME DE-ICING</u> (Cont'd)				
1	Control Box, Power Distributor	Avro 7-2052-12	Avrocan E-217	9.00*	6th
2	Relay, 3 PST 25A Class B				6th
26	Thermostat, Surface De-Icing 70°F				6th
2	Mounting Tray	Avro 7-2055-15043			
1	Mounting Tray	Avro 7-2055-15044			
	<u>ENGINE ANTI-ICING</u>				
2	Detector, Ice	Avro 7-2055-27	Avrocan E-213	3.00*	6th
2	Filter	Avro 7-2055-105	Avrocan E-213	1.25	6th
	<u>RADOME ANTI-ICING</u>				
1	Relay, Time Delay				6th
1	Filter, Fluid (Anti-Icing)				6th
1	Valve, Check				6th
1	Valve, Air Pressure Regulator				6th

*Estimated Weight

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ICE ELIMINATION (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>RADOME ANTI-ICING</u> (Cont'd)				
1	Valve, Pressure Relief				6th
1	Valve, Three Way, Solenoid				6th
	<u>WINDSHIELD ANTI-ICING</u>				
1	Box, Window Temp. Control 5 Channel				6th
3	Sensing Elements				6th
1	Transformer, Windshield Canopy	Avro 7-2052-16	Avrocan E-496	18.00	6th
1	Panel, L.H. Side Windscreen			38.00	6th
1	Panel, R.H. Side Windscreen			38.00	6th
6	Thermostat, Canopy Windscreen				6th
1	Window, Canopy Side L.H. Pilot			31.73	6th
1	Window, Canopy Side R.H. Pilot			31.73	6th
1	Window, Canopy Side L.H. Observer/AI				6th
1	Window, Canopy Side R.H. Observer/AI				6th



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
AMS/105/2
OCTOBER 1957

INSTRUMENTS

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Boom, Pitot Static				6th
1	Pressure Head, Pitot-Dual Static				6th
1	Pitot-Static Tube, Fin	Waste King Corp. 3186 USAF Type MA-1	MIL-P-25632A		6th
1	Sensor, Relative Wind	Avro 7-1851-21			6th
38	Tank Units (Fuel Quantity System)	4 34	Avro 7-1654/ Avro 7-1662/		6th 6th
2	Indicator, Pilot's (Fuel Quantity System)				6th
1	Indicator, Observer's (Fuel Quantity System)				6th
	Panel, Landing Gear Select Control				6th
1	Indicator, Landing Gear Position	Dowty Q-1416			6th
	Computer-Transducer Pack, Engine Performance		(Refer to Engine Installation)		6th
2	Indicator, Engine Performance				6th
	Transducer - Nozzle Area		(Refer to Engine Installation)		6th
1	Indicator, UHF Channel Selection				6th
1	Indicator, Control Surface Position				6th

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INSTRUMENTS (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Indicator, Quantity (Liquid Oxygen) Including Amplifier				6th
1	Indicator, Skin Temperature	Avro 7-1252-15			6th
1	Element, Sensing, Skin Temperature	Avro 7-1152-106			6th

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
AAMS/105/2
OCTOBER 1957

LANDING GEAR

CONFIDENTIAL

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
4	Brake, Main	Avro 7-1092-169	Avrocan E-228	62.40*	6th
1	Landing Gear, Main L.H.	Avro 7-1092-15003			6th
1	Landing Gear, Main R.H.	Avro 7-1092-15004			6th
1	Landing Gear, Nose				6th
1	Liquid Spring				6th
4	Tire, Tubeless, Main	Avro 7-1092-167	Avrocan E-251	46.50*	6th
	Alternative:				
4	Tire, Main				
4	Tube, Main				
2	Tire, Nose Tubeless	RCAF 43311	Avrocan E-252	12.50*	6th
4	Wheel, Main	Avro 7-1092-165	Avrocan E-228	41.50*	6th
2	Wheel, Nose	Avro 7-1091-303	Avrocan E-257	8.60	6th
1	Side Stay L.H.	Avro 7-1092-11			6th
1	Side Stay R.H.	Avro 7-1092-12			6th
		*Estimated Weight			



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OCTOBER 1957

LANDING GEAR (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>DRAG CHUTE</u>				
1	Drag-Chute, Deceleration, Fist type	Avro 7-3159-11		48.00*	6th
2	Drag-Chute, Deceleration (Spares)	Avro 7-3159-11			
1	Cable Tension Regulator	Avro 7-3352-95	Avrocan E-371	2.50*	6th
*Estimated Weight					

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OXYGEN

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Bottle				6th
2	Valve, Oxygen Starting				6th
	Including:-				
	Valve, Starting				
	Gauge, Emergency Oxygen				
	Valve, Charging				
1	Converter, 5 Litre				6th
1	Tray - Mounting				6th
2	Disconnect, Composite Leads				6th
2	Valve, H.P. Check				6th
2	Regulator, Oxygen				6th
2	Reducer, Pressure				6th



MODEL SPECIFICATION
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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

AAMS/105/2
OCTOBER 957

PNEUMATICS - LOW PRESSURE

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Filter, Hot Air	Avro 7-1852-13	Avrocan E-328	0.28*	6th
1	Seal, Canopy Inflating L.H. Pilot's	Avro 7-1053-101	Avrocan E-343	2.50*	6th
1	Seal, Canopy Inflating R.H. Pilot's	Avro 7-1053-102	Avrocan E-343	2.50*	6th
1	Seal, Canopy Inflating L.H. Observer/AI	Avro 7-1053-121	Avrocan E-343	2.26*	6th
1	Seal, Canopy Inflating R.H. Observer/AI	Avro 7-1053-122	Avrocan E-343	2.26*	6th
2	Valve, Anti "G"	Avro 7-1852-12	MIL-V-9370	1.94*	6th
1	Valve, Canopy Seal Control	Avro 7-1852-14	Avrocan E-332	1.20*	6th
1	Valve, Pneumatic Check Switch, Differential	(Refer to Engine Installation)			6th
	Valve, Pneumatic Check	(Refer to Engine Installation)			6th
2	Seal, Instrument Pack or				Effect'y Open
2	Seal, Armament Pack				
1	Seal, Pack, Forward				6th
*Estimated Weight					



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED
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OCTOBER 1957

Classification cancelled / changed to Unclassified
By authority of AVRO Arrow Declassif. Board
Date 28 Jul 87
Signature B. Aubrey, Co-Chairperson
Unit / Rank / Appointment DSIS 3

