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AIRCRAFT EQUIPMENT LIST
APPENDIX 1 ISSUE 4
ARROW 1
MODEL SPECIFICATION
AAMS-105/1

NRC - CISTI
J. H. PARKIN
BRANCH
JUN 8 1995
ANNEXE
J. H. PARKIN
CNRC - ICIST

B-6B

APPENDIX I
TO
MODEL SPECIFICATION
FOR
ARROW I
SUPERSONIC AIRCRAFT

Classification cancelled/changed to
by authority of _____ (date)
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Number of Pages 74

Copy Number 40

Assigned To R.C.A.F.

C O N F I D E N T I A L



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INTRODUCTION

1. This Equipment List as defined below is issued to show the airborne equipment installed in Arrow 1 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. Amendments to this list will be periodically issued by the Model Specification Group.

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ELECTRONICS (INTERIM SYSTEM)

MODEL SPECIFICATION
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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>IFF AN/APX-6A</u> †				
1	Receiver - Transmitter	RT-279A/APX	MIL-R-25125	40.53	
1	Control, Radar Set	C-1158/APX	MIL-C-8327	1.35	
1	Mounting Base	MR-362A/A	C-16R91 (AER)	3.45	
	<u>Radio Compass AN/ARN-6</u> †				
1	Receiver	R-101A/ARN-6 RCAF 10EA/28137	MIL-R-25199	41.50*	
1	Mounting, Receiver	MT-273B/ARN-6 RCAF 10EA/27485	MIL-R-25199	7.08	
2	Indicator, Radio Magnetic	ID-250/ARN or 36109-1Y-33-A2	MIL-R-25199	1.56	25201 to 25204
1	Loop Cable (6' 0" Long)	CG-131/ARN-6 RCAF 10EA-30158	MIL-R-25199	8.25*	
	<u>Direction Finder AN/ARA-25</u> †				
1	Amplifier, Electronic Control	AM-608/ARA-25	MIL-D-7033A	5.10	
1	Relay Solenoid	RE-120/ARA-25	MIL-D-7033A	8.70*	
1	Antenna	AS-578A/ARA-25(xN3) RCAF 10EA/50110	MIL-D-7033A	15.00*	
	† Removed When Astra Fitted.		*Estimated Weight		

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ELECTRONICS (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	<u>Direction Finder AN/ARA-25 (Cont'd)</u> Mounting, Amplifier Electronic Control	MT-1043/ARA-25	MIL-D-7033A	1.10	←
1	Mounting, Relay Solenoid <u>J4 Compass †</u>	MT-1042/ARA-25	MIL-D-7033A	0.05	
1	Directional Gyro	Kearfott 423040-2 RCAF 6B/677	MIL-C-8412	7.57	←
1	Servo & Amplifier Assy.	Kearfott 423060-2 RCAF 6B/678	MIL-C-8412	10.76	
1	Control Panel	Kearfott 423050-2 RCAF 6B/676	MIL-C-8412	1.48	
1	Remote Compass Transmitter	Sperry 620359 RCAF 6B/750	}	1.30*	25201 to 25204
1	Compensator	Sperry 620783 C90238			
1	<u>U.H.F. Communication AN/ARC-34 †</u> Transmitter-Receiver	RT-263/ARC-34 RCAF 10EU/44176	MIL-R-7646C	49.90	←
1	Mounting	MT-1099/U RCAF 10EA/44177	MIL-R-7646C	2.50*	
	† Removed When Astra Fitted		*Estimated Weight		

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED



ELECTRONICS (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>U.H.F. Communication</u> (Cont'd)				
2	Control, Radio Set	C-1057/ARC-34 RCAF 10EA/44178	MIL-R-7646B	2.67	← 25201 to 25204 →
2	<u>Interphone AN/AIC-10 †</u>				
	Control Panel	C-824/AIC-10 RCAF 10EA/34172	MIL-C-9306	3.30	
1	Relay Assembly	RE-94/AIC-10 RCAF 10EA/34713	MIL-R-9405	1.98	
1	Dynamotor	DY-77/AIC-10 RCAF 10EA/35081	MIL-D-9283	4.30*	
1	Mounting, Dynamotor	MT-1060/U RCAF 10EA/40255	MCREE-867A	1.00* to 25204	
	†Removed When Astra Fitted.		*Estimated Weight		

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FLYING CONTROLS

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
1	Servo Amplifier	RCAF 6J102 RG7064-B.1			All

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INSTRUMENTS

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	Compass, Magnetic Standby	AN5766T4 RCAF 6A/1337	MIL-C-5604	0.75*	All
1	Indicator, Airspeed (Mach/ASI)	AERNO 60-4839 RCAF 6A/10186 USAF Type ME-4	MIL-I-21537	0.80*	All
1	Indicator, Artificial Horizon Including:- Micro Switch	RCAF 6A/1282		6.50*	All
	Plate	BZ-7RQIT RCAF 5CB/557		0.20	All
		64-90506 RCAF 6A/1365		0.10	All
1	Indicator, Rate of Climb (0-6000 Ft./Min.)	Aviation Electric AE 342-2-A RCAF 6A/10170		1.20*	All
1	Indicator, Turn and Bank	RCAF 6A/1299	Inst. 1-9	1.60*	All
1	Accelerometer	RCAF 6A/1107	MIL-A-5885A	0.63	All
1	Indicator, Cabin Pressure	AERNO 60-603 RCAF 6A/1162	MIL-I-5099A (AER)	1.00*	All
2	Altimeter (0-80,000 ft.)	AERNO 60-602 RCAF 6A/10185	MIL-A-6863	1.31*	All
1	Clock (8 day)	Type A-13A RCAF 6W/28	MIL-C-6499	0.44	All

*Estimated Weight



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PROPULSION

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	USAF YJ75-P-3	2611 (P & W)	6175.00*	25201
2	Engine, Gas Turbine c/w afterburner	USAF YJ75-P-5	2605 (P & W)	5950.00*	25202 & Subs.
	P & W Instrumentation Kit 1 - per YJ75-P-3 Prototype Engine	P & W 256045			25201
	P & W Installation Kit consisting of Fire seal shroud brackets Ground handling dolly bracket P1 drain line configuration kit No. 1 bearing pressure and scavenge line	P & W 333148			25201
	Qty - 1 Kit per YJ75-P-3 prototype engine				
	P & W Installation Kit consisting of Fire seal shroud brackets Ground handling dolly bracket P9 anti-icing line (right side)	P & W 333149			25202 & Subs
			*Estimated Weight		

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PROPULSION (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<p>P & W Installation Kit consisting of (Cont'd)</p> <p>Qty - 1 Kit per YJ75-P-5 Production Engine</p>				25202 & Subs

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ASTRA 1 ELECTRONICS SYSTEM

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Radar System</u>				
	Airborne Radar				
	<u>Radar Modulator Transmitter</u>				
1	Test Plug, Go-No-Go	RCA 1105		.8	
1	Pulser, Modulator	RCA 1110		120	
1	Magnetron & Pulse Transformer Housing	RCA 1115		118	
1	Power Supply, Pulser	RCA 1120		128	
1	Line Voltage Control Unit	RCA 1123		5.8	
1	Line Voltage Control Unit C/W Switch	RCA 1124		8.5	25205 And
1	Timer, Modulator Power	RCA 1125		1.5	Retrofit 25204
	<u>Microwave Group</u>				
1	Microwave Assembly	RCA 1131		36.2	
1	Antenna Adaptor Assembly	RCA 1132			
1	<u>Pulser, Frequency</u>	RCA 1134		7	
1	Programmer, Random Frequency	RCA 1136		1.6	

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ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Radar System</u> (Cont'd)				
	<u>Microwave Group</u> (Cont'd)				
1	Control, Frequency	RCA 1137		1.3	
1	Waveguide, Switch	RCA 1138		1.5	
1	Control, Polarization	RCA 1139		0.19	
	<u>Synchronizer Group</u>				
1	Timing & Display Unit	RCA 1310		7.6	25205 And
1	Tracking Unit	RCA 1320		8.5	Retrofits 25204
1	Amplifier Functional	RCA 1330		7.75	
1	Control Automatic Gain	RCA 1340		4.2	
1	Quazi-Passive Ranging	RCA 1350		3.25	
1	Azimuth Deflection	RCA 1360		2.7	
	<u>Radar Display Group</u>				
	Pilot's Display				
	Obs/AI Display				
	<u>Radar Receiver</u>				
1	I.F. Linear Amplifier	RCA 1150		3	

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ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Radar System (Cont'd)</u>				
	<u>Radar Receiver (Cont'd)</u>				
1	Receiver Filament Transformer	RCA 1151		2.5	
1	Zero Time Unit	RCA 1155			
1	Automatic Frequency Control	RCA 1160			
	<u>Airborne Moving Target Indicator</u>				
1	Driver, Delay Line Assy.	RCA 1410		9.5	252056
1	Mixers	RCA 1430		4.1	And
1	Amplifier, Post Delay	RCA 1440		4.2	Retrofit
1	Power Unit Clutter Canceller	RCA 1450		4.0	25204
1	Electronic Switch Clutter Actuated	RCA 1470		7.0	
1	Camera Scope Recorder	RCA 2280		15.0	
	<u>Antenna Sub-System</u>				
1	Antenna, Radar	RCA 1210		105	
1	Antenna Drive	RCA 1220		10.0	
1	Angle Tracking Unit	RCA 1230		12.0	
1	Controller, Search	RCA 1240		22.0	

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Radar System</u> (Cont'd)				
	<u>Antenna Sub-System</u> (Cont'd)				
1	Servo Auxiliary Unit	RCA 1260		13.0	
1	Filter, AC	RCA 1270		16.0	
1	Sensor, AC Rate (I.R. Stabilization)	RCA 1275		2	
1	Computer Search Stabilization	RCA 1280		19.8	
1	Reference Unit, Gyro	RCA 1290		16	
1	Gyro Package Feed Forward	RCA 1291		1	
	<u>Pressurization System</u>				
1	Pressure Regulator Assy.	RCA 1141		5	25205 And
1	Air Dehydrator	RCA 1142		1.5	Retrofit 25204
1	Compressor, Air	RCA 1143		5.3	
	<u>Liquid Cooling System</u>				
1	Reservoir, Coolant	RCA 1171		2.5	
1	Motor/Pump	RCA 1172		8	
1	Valve Temperature Regulating	RCA 1173		1	
1	Coolant Flow Switch	RCA 1174		6	



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ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Radar System</u> (Cont'd)				
	<u>Liquid Cooling System</u> (Cont'd)				
1	Valve Bypass Operated	RCA 1175		0.6	← 25205 And Retrofit 25204 →
1	Heat Exchanger	RCA 1176		10.5	
1	Filter, Coolant	RCA 1177		1.3	
1	Valve Service	RCA 1178		1.5	
1	Panel Liquid Level Ind. & SW.	RCA 1179		1.5	
	<u>Hydraulics System</u>				
1	Motor-Pump Assembly	RCA 1251		1.0	
1	Reservoir Assy. Hyd.	RCA 1252		7	
1	Accumulator, Hyd.	RCA 1253		6.5	
1	Filter, 10 Micron, Hyd.	RCA 1254		1.3	
1	Filter, 10 Micron w/Mag. Trap	RCA 1255		2.4	
1	Switch Pressure Actuated Hyd.	RCA 1256		0.4	
1	Piping Accessories, Hyd.	RCA 1257		0.25	
1	Pressure Gauge C/W Charging Point	RCA 1258		0.75	

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

ASTRA I ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
	<u>Radar System</u> (Cont'd)				
	<u>Infra-Red Sub-System</u>				
1	IR Seeker Head Assy.	RCA 1910		35	←
1	IR Demodulator	RCA 1920		10	
1	IR Servo Amplifier	RCA 1930		11	
1	IR Detector Cooling	RCA 1940		35	
1	IR Reference Generator	RCA 1950		15	
	<u>Computer And Control System</u>				
1	Optical Sight	RCA 2290		5	
	<u>Computer</u>				
1	Switch Box; Mode (of Ballistics Computer)	RCA 2110		12	
1	Rocket Propellant Temp. Pot	RCA 2115		12	
1	Amplifiers (of Ballistics Computer)	RCA 2120		1.5	
1	Lift Accelerometer	RCA 2130		15	
1	Steering Unit (of Kinematics Computer)	RCA 2140		4	
1	Nose Tail Computer (Kinematic)	RCA 2145			→

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ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Computer And Control System (Cont'd)</u>				
	<u>Computer (Cont'd)</u>				
1	Servo Unit Range & Time (of Kinematics Computer)	RCA 2150		20	
1	Firing Unit (Kinematics Computer)	RCA 2160		15	
1	In Range Unit (Kinematics Computer)	RCA 2170		5.0	
1	Jump Angle Computer (Kinematics)	RCA 2180		10	25205 And
1	Aided Track Unit (Kinematics)	RCA 2190		8.0	Retrofit 25204
	<u>Indicator Controls</u>				
1	Control Panel, Radar/IR (Minus Range & Range Rate Meter)	RCA 2230		4.3	
1	Control Auxiliary Radar	RCA 2240		2.5	
1	Test Panel, In Flight	RCA 2250		.75	
1	Hand Control, Radar	RCA 2260		4.5	
1	Range & Range Rate Meter	RCA 2270		2.5	
1	Target Altitude Command	RCA 2291		2	
1	Altitude Data Counter-Obs/AI	RCA 2292		2.5	
1	Panel Armament	RCA 2295		2.75	



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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Applicable A/C
		Part No.	Spec. No.		
	<u>Computer And Control System (Cont'd)</u>				
	<u>Signal Data Converter</u>				
1	Pilots/Obs Display Gen. (R.H.)	RCA 2310		9	
1	Pilots/Obs Deflection Gen. (L.H.)	RCA 2320		10	
	<u>Low Voltage Power Supply</u>				
1	Timer L.V.P.S.	RCA 2405		1.6	
1	Power Supply, L.V. (+65v)	RCA 2410		11.4	
1	Power Supply, L.V. (-250v)	RCA 2420		21.5	25205
1	Power Supply, L.V. (150v)	RCA 2430		16.5	And Retrofitted 25204
1	Power Supply, L.V. (+150v)	RCA 2440		21.4	
1	Power Supply, L.V. (+300v)	RCA 2450		23.8	
1	Power Supply, L.V. (-28 & +28)	RCA 2460		16.5	
	<u>Communications System</u>				
	<u>AN/ARC-52 UHF Set</u>				
1	Transmitter Receiver	RCA 5510 RT-332/ARC-52 (XN4)		45.5	
1	Control Obs/AI	RCA 5520 C-1607/ARC-52 (XN4)		3.1	

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Communications System</u> (Cont'd)				
	<u>AN/APC-52 UHF Set</u> (Cont'd)				
1	Control, - Pilot	RCA 5530 614-T-1A		2.2	←
1	UHF Transfer Switch-Pilots	RCA 5540		1	
1	UHF Transfer Switch-Obs/AI	RCA 5541		1	
1	UHF Channel Indicator	RCA 5550		1	
	<u>AN/ARR-48 Data Link</u>				25205 And Retrofit 25204
1	Coupler and Power Supply	RCA 5110		45	
1	Receiver/Power Supply/Tuning Adapter	RCA 5120		28	
1	Converter/Power Supply	RCA 5130		17	
1	R.F. Tuner	RCA 5140		11	
1	Control, TDM Data Link	RCA 5150		4.3	
1	Interconnection Adapter	RCA 5170		5	
	<u>AN/AIC-10A Intercommunication</u>				
1	Control Panel, Pilots	RCA 5210 10 EA/34712		3.3	
1	Control Panel, Obs/AI	RCA 5211 10 EA/34712		3.3	

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Communications System (Cont'd)</u>				
	<u>AN/AIC-10A Intercommunication (Cont'd)</u>				
1	Relay Assembly	RCA 5230		2.0	←
1	<u>Antenna Switching Units</u>				
1	U.H.F. Antenna Switching Unit	RCA 5610		2.31	
1	L-Band Antenna Switching Unit	RCA 5611		6	
1	ADF Antenna Switching Unit	RCA 5613		2.31	
1	Duplexer Panel, Antenna Selector	RCA 5615		2.0	
	<u>Navigation System</u>				
	<u>Computer (Dead Reckener)</u>				
1	Pilots Destination Function Control	RCA 6110		.75	
1	Display, Wind Data	RCA 6120		4.5	
1	Display, Target Data	RCA 6130		7	
1	GCI Selector	RCA 6131		1.5	
1	Base Selector	RCA 6132		1.5	
1	Computer, Ground Speed	RCA 6150		10.0	
1	Ground Speed Integrator	RCA 6160		4.0	
					→

25205
And
Retrofit
25204

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ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Unit Appli- cable A/C
		Part No.	Spec. No.		
	<u>Navigation System</u> (Cont'd)				
	<u>Computer (Dead Reckener)</u> (Cont'd)				
1	Computer & Relay Unit	RCA 6165		10.0	
1	Observer's Destination Display	RCA 6170		6	
1	Pilot's Destination Display	RCA 6180		6	
1	Navigation Computer Control	RCA 6190		1.5	
	<u>Doppler</u>				
1	Antenna-Doppler	RCA 6210		27	25205 And
1	Doppler, Electronics	RCA 6220		50	Retrofitt 25204
	<u>AN/ARA-25 UHF Automatic Direction Finder</u>				
1	Amplifier Electronics Control	RCA 6410		5.0	
1	Antenna	RCA 6420		17.5	
1	Solenoid Relay	RCA 6430		0.91	
	<u>AN/ARN-6 LF/MF Radio Compass</u>				
1	Receiver	RCA 6610		36.7	
1	Antenna, Loop	AVRO 6620		8.5	
1	Cable, Loop (Rcvr-Ant.)	RCA 6621		0.25	

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Navigation System (Cont'd)</u>				
1	Tuning Drive, Remote Control Servo	RCA 6630		2.5	
1	Control Box, Pilots	RCA 6640		2.6	
1	Control, Obs/AI	RCA 6641		2.6	
1	Susceptiformer	RCA 6650		2.0	
	<u>Gyro Magnetic Compass A/C Type J4</u>				
1	3 Axis Repeater	RCA 4440		29	25205
1	Flux Valve	RCA 4450		1.44	And
1	Flux Valve Compensator	RCA 4460		0.25	Retrofit 25204
1	Transformer, J/2 Controller	RCA 4730		1.75	
1	Roll Correction Computer	RCA 4740		7	
1	Vertical Gyro, Non-Tumbling	RCA 4950		9.1	
1	Power Supply for GC48B-1	RCA 4955		3	
1	Directional Control Gyro	RCA 4710		7.5	
	<u>Identification</u>				
1	AN/APX-25A Air To Ground Transponder	RCA 7110		11.25	
	Key Coder	KY-95A/APX-25			

ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Identification</u> (Cont'd)				
	<u>AN/APX-25A Air To Ground Transponder</u>				
1	Receiver-Transmitter	RCA 7120 (10EC/ 44240) RT-279A/ APX		44.5	←
1	Control Coder Group	RCA 7130 (10EC/ 44245) C-1128/ APX-25		1.0	
1	Control Transponder Set	RCA 7140 (10EC/ 44242) C-1158/ APX		1.1	
	<u>AN/APX-26 Air To Air Interrogator</u>				
1	Amplifier Converter	RCA 7210 AM-1242/APX-26		5.8	25205 And Retrofit 25204
1	Transmitter	RCA 7220 T-425/APX		8.1	
1	Amplifier Osc. Control	RCA 7230 AM-1243/APX		4.6	
1	Amplifier Synchronizer	RCA 7240 AM-1241/APX-26		7.5	
1	Electrical Synchronizer	RCA 7250 SN-126/APX-26		5.6	
1	Controls	RCA 7260 C-1676/APX		1.2	

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ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

MODEL SPECIFICATION
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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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-27 Air To Air Transponder</u>				
1	Power Supply	RCA 7310		16.6	
1	Transmitter	RCA 7320 T-425/APX		8.1	
1	Control Amplifier Oscillator	RCA 7330 AM-1243/APX-27		4.6	
1	Coupler, Directional	RCA 7340 CU-457/APX		0.3	25205 And Retrofit 25204
1	Amplifier Synchronizer	RCA 7350 AM-1245/APX-27		7	
1	Amplifier Converter	RCA 7360 AM-1244/APX-27		5.8	
1	Isolator, RF	RCA 7370 MX 1814/APX		0.7	
1	Isolator, RF	RCA 7371 MX 1814/APX		0.7	
1	Duplexer	RCA 7380 CU-460/APX-27		3.6	
1	Cavity, Tuned	RCA 7390 FR-93/APX-27		2.5	

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Identification (Cont'd)</u>				
	<u>Fin Wave-Guide</u>				
1	Interconnecting Waveguide	RCA 7391		0.63	
1	Interconnecting Waveguide	RCA 7392		0.82	
1	Interconnecting Waveguide	RCA 7393		0.58	
1	Interconnecting Waveguide	RCA 7394		0.75	
	<u>Flight Control And Flight Data</u>				
	<u>Flight Control</u>				
1	Amplifier Calibrator (AFCS)	RCA 4110		34	25205 And Retrofit
1	AFCS Coupler	RCA 4120		28	25204
1	Function Selector (AFCS)	RCA 4130		1.5	
1	AFCS Flight Test Panel	RCA 4140			
	<u>Flight Data Sub-System</u>				
1	Air Data Computer	RCA 4310		46	
1	Temperature Sensor	RCA 4320		.5	

ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

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 APPENDIX 1-A
 GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Instruments</u>				
1	Pilot's Display	RCA 2210		13.5	↑
1	Obs/AI Display	RCA 2220		25	
1	True Airspeed Indicator	RCA 2275		2	
1	Flight Director Attitude Ind.	RCA 4210		6.5	25205 And
1	Flight Director Amp.-Cal.	RCA 4220		5	Retrofit 25204
1	Mach. Indicator	RCA 4230		3.2	
1	Mach. Indicator Amp.-Cal.	RCA 4240		4.1	
	<u>Missile Auxiliaries</u>				
1	Slaving Unit, Angle	RCA 3110		24.25	
1	Angle Slaving Adaptor	RCA 3115		24.25	
1	Slaving Unit, Range	RCA 3120		16.75	
1	Range Slaving Adaptor	RCA 3125		2.0	
1	Power Supply, Auxiliary	RCA 3130		14	
1	Optical Mode Unit	RCA 3140		14.25	
1	Reference Generator	RCA 3150		8	
1	Power Control Unit	RCA 3160		15	↓

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ASTRA 1 ELECTRONICS SYSTEM (Cont'd)

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 GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED.

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Racks</u>				
1	Cable Assy, Radar	RCA 0211		120	
1	Radar Rack Mount RH.	RCA 0215		120	
1	Radar Rack Mount LH.	RCA 0216		120	
1	Rack, Main Frame	RCA 0217		120	
1	Rack, Aft Nose, Right Side	RCA 0221		48	
1	Rack, Aft Nose, Left Side	RCA 0222		52	
1	Isolators, Aft Nose	RCA 0223		6.6	
1	Rack, Pilots Ind.	RCA 0241		3	
1	Rack, Obs/AI Ind.	RCA 0242		7	
1	Rack, Signal Data Converter Right Side	RCA 0244		2	
1	Rack, Signal Data Converter Left Side	RCA 0245		2	
1	Rack, Integrated, Right Side, Elec. Bay	RCA 0251		17	25205 And Retrofit 25204
1	Rack, AM/ARN-6, Elec. Bay	RCA 0252		6.5	
1	Rack, AN/ARA-25 Amp Electronic Converter, E.B.	RCA 0253		0.5	

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ASTRA 1 ELECTRONICS SYSTEMS (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. in Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Racks</u> (Cont'd)				
1	Rack, AN/APX-27 Power Supply, E.B.	RCA 0254		2.75	←
1	Rack, Module, E.B.	RCA 0255		5	
1	Rack, Air Data Computer, E.B.	RCA 0256		2.5	
1	Rack, AFCS Amp. Cal. E.B.	RCA 0257		2.5	
1	Rack, Platform Repeater, E.B.	RCA 0258		2.0	
1	Rack, Dead Reckoner, E.B.	RCA 0259		6.5	
1	Rack, AFCS Coupler, E.B.	RCA 0260		3.8	
1	Rack, Doppler, E.B.	RCA 0262		6.5	
1	Rack, Amp. Assy. Duct Bay	RCA 0263		1.7	
1	Rack, Missile Auxiliary	RCA 0270		12	
1	Rack, Angle Slaving Adaptor	RCA 0272		2.0	
1	Rack, Missile Aux. Power Supply	RCA 0273		2.3	
1	Rack, Power Control Unit	RCA 0274		3.0	
1	Rack, Fwd., Dorsal	RCA 0281		1.5	
1	Rack, Aft. Dorsal	RCA 0282		2.7	

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GOVERNMENT FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

AIR CONDITIONING

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	Heat Exchanger	Avro 7-2254-6	Avrocan E-263	155.50	All
1	Tank, Water Evaporator	Avro 7-2254-12	Avrocan E-262	56.60	All
1	Valve, Lo-Temp. Two Way Shut-Off	Republic 309 FG-1/4 D			All
1	Ground Connection 3.0"	Avro 7-2252-18	Avrocan E-397	1.90*	All
1	Controller For Regulator	Avro 7-2252-24	Avrocan E-298	1.98	All
1	Regulator, Air Pressure (Cockpit)	Avro 7-2252-1	Avrocan E-298	4.21	All
1	Filter, Cockpit Pressure	Avro 7-2252-316	Avrocan E-298	1.50	All
1	Valve, Relay, Cockpit Pressure	Avro 7-2252-278	Avrocan E-298	1.00	All
1	Turbine and Fan	Avro 7-2254-1		66.75	All
	<u>Temp. Control System-Cockpit</u>				
1	Controller, Cabin Temp.	Avro 7-2252-14	Avrocan E-265	1.227	All
1	Reostat Control	Avro 7-2252-151	Avrocan E-265	0.20	All
1	Valve, Air Control	Avro 7-2252-11	Avrocan E-265	1.52	All
2	Pick-Up Temperature	Avro 7-2254-349	Avrocan E-265	0.09	All

*Estimated Weight

AIR CONDITIONING. (Cont'd)

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

AAMS/105/1
 SEPTEMBER 1958

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Unit Appli- cable A/C
		Part No.	Spec. No.		
	<u>Temp. Control System - Radar</u>				
1	Controller, Radar Temp.	Avro 7-2252-16	Avrocan E-264	1.40*	All
1	Pick-Up Temperature	Avro 7-2254-349	Avrocan E-264	0.09	All
1	Valve, Air Control	Avro 7-2252-11	Avrocan E-264	1.52	All
1	Valve, Shut-Off 2" (Electric)	Avro 7-2252-22	Avrocan E-325	2.80	All
2	Valve, Pressure Reducing And Non-Return 3"	Avro 7-2256-5	Avrocan E-236	7.82	All
1	Valve, Non-Return And Shut-Off	Avro 7-2254-4	Avrocan E-239	2.78	All
1	Valve, Flow Augmentor And Shut-Off	Avro 7-2254-3	Avrocan E-237	4.17	All
1	Valve, Safety Cabin Air Pressure	Avro 7-2252-328	MIL-V-5379 Avrocan E-572	1.28	All
1	Controller	Avro 7-2252-329	MIL-V-5379 Avrocan E-572	1.44*	All
2	Valve, Ram Air	Avro 7-2252-3	Avrocan E-309	3.18	All
1	Valve, Shut-Off 2.5"	Avro 7-2252-201	Avrocan E-309	3.13	25201 & 3
2	Valve, Non-Return, Engine Bleed Air	Avro 7-2254-579	Avrocan E-322	2.48	All
2	Valve, Shut-Off Engine Bleed Air	Avro 7-2295-55	Avrocan E-374	6.33	25201 & 2
		*Estimated Weight			

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AIR CONDITIONING (CONT'D)



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	Valve, Relief	Avro 7-2254-2251	Avrocan E-551	6.50	All
1	Valve, Inward Relief	Avro 7-2252-403	Avrocan E-559	0.70	All
2	Switch, Pressure, Engine Bleed	Avro 7-2256-189	Avrocan E-513	0.45	All
6	Thermostat, Leakage Sensing System	Avro 7-2250-126	Avrocan E-515	0.10	All
1	Thermostat, Temp. Overheat	Avro 7-2254-2393	Avrocan E-515	0.10	All
1	Thermostat, Temp. Overheat	Avro 7-2250-128	Avrocan E-515	0.10	All
1	Thermostat, Temp. Overheat	Avro 7-2250-129	Avrocan E-515	0.10	All
1	Thermostat, Temp. Overheat	Avro 7-2250-131	Avrocan E-515	0.10	All
1	Valve, Shut-Off	Avro 7-2252-423	Avrocan E-298		All
1	Valve, Control (Retrofit A/C 25201)	Avro 7-2254-2395	Avrocan E-662	25202 & Subs	25202 & Subs
1	Rate Sensor Pressure (Retrofit A/C 25201)	Avro 7-2254-2397	Avrocan E-662	25202 & Subs	25202 & Subs
1	Sensor Temp. Pneumatic (Retrofit A/C 25201)	Avro 7-2254-2391	Avrocan E-662	25202 & Subs	25202 & Subs
1	Valve, Shut-Off Temp. Control (Retrofit A/C 25201)	Avro 7-2254-2445		25202 & Subs	25202 & Subs

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

AIR CONDITIONING (CONT'D)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Additional Equipment For A/C 25204</u> <u>X 5</u>				
1	Tank, Water Evaporator (Retrofit A/C 25204)	Avro 7-2254-12	Avrocan E-262		25205
2	Turbine Cooling (Retrofit A/C 25204)	Airesearch 201470			25205
1	Valve, Nose Radar, Shut-off (Retrofit A/C 25204)	Avro 7-2252-15203	Avrocan E-492		25205
2	Exchanger, Air/Oil (Retrofit A/C 25204)	Avro 7-4622-4			25205
1	Valve, Shut-off (Retrofit A/C 25204)	Avro 7-2252-201	Avrocan E-309		25205

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

CANOPY ACTUATION

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
2	Actuator, Canopy (Normal)	Avro 7-1152-9	Avrocan E-277	2.39	All
2	Jack, Canopy Emergency	Avro 7-1052-1037		8.88	All
2	Valve, Sequence Latch Jack	Avro 7-1052-1038		1.79	All
2	Cartridge, Canopy Emergency Opening	Avro 7-1052-6602			All
2	Firing Unit, Canopy Cartridge	Avro 7-1052-6601			All
2	Recuperator, Damping Jack	Avro 7-1052-6589		3.16	All

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

DAMPING SYSTEM

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	Selector, Function	Avro 7-1352-117		1.50	All
1	Accelerometer, Lateral Scheduling	Avro 7-1352-118		2.60	All
1	Mounting Tray "G" Limiter	Avro 7-1354-228		0.80	25201 2 & 3
1	Mounting Tray "G" Limiter	Avro 7-1354-283		0.80	25204 & 5
1	Accelerometer, Lateral Switching	Avro 7-1354-229		2.60	All
1	Accelerometer, Normal	Avro 7-1354-231		2.60	All
2	Accelerometer, Lateral	Avro 7-1354-232		2.60	All
1	Calibrator, "G" Limiter	Avro 7-1354-343		5.00	All
2	Accelerometer, Normal "G" Limiter	Avro 7-1354-337		2.60	All
1	Accelerometer, Normal Switching	Avro 7-1354-236	Avrocan E-276	2.60	All
2	Gyro, Yaw Rate	Avro 7-1362-231		1.50	25201 2 & 3
2	Gyro, Yaw Rate	Avro 7-1362-15161		1.50	25204 & 5
1	Amplifier Calibrator	Avro 7-1362-232		45.00	25201 2 & 3
1	Amplifier Calibrator	Avro 7-1362-327		45.00	25204 & 5

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SEPTEMBER 1958

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
1	Mount, Rate Gyro	Avro 7-1362-233		8.50	25201 2 & 3
1	Mount, Rate Gyro	Avro 7-1362-15145		8.50	25204 & 5
1	Gyro, Pitch Rate	Avro 7-1362-234		1.50	25201 2 & 3
1	Gyro, Pitch Rate	Avro 7-1362-15163		1.50	25204 & 5
1	Gyro, Roll Rate	Avro 7-1362-235		1.50	25201 2 & 3
1	Gyro, Roll Rate	Avro 7-1362-15165		1.50	25204 & 5
1	Accelerometer, Roll Rate Limiting	Avro 7-1364-64		0.90	All
1	Potentiometer, Parallel Servo Position	Avro 7-1358-13		0.50	All
1	Accelerometer, Lateral Switching	Avro 7-1351-33		2.60	All
1	Shock, Mount Assembly	Avro 7-1362-295		1.50	All
1	Indicator, Time Elapsed	Phillips K25205			All
2	Potentiometer	Avro 7-1162-173			All
2	Converter, Signal Data	Minn.-Honeywell CSX12641			All

DAMPING SYSTEM (CONT'D)

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

DAMPING SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt in Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Light, Indicator Amber (Retrofit A/C 25201, 2, 3)	MS25041-8	MIL-L-7961		P5204 & 5
1	Light, Incandescent Clear 28V (Retrofit A/C 25201, 2, 3)	MS25237-327	MIL-L-6363B		P5204 & 5

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	Actuator, Canopy (Normal)	(Refer to Canopy Actuation)			
2	Alternator 208/120V 30KVA 3 Phase	Avro 7-1125-11	Avrocan E-202	52.00	All
1	Battery, Storage (Hermetically Sealed)	Avro 7-1152-11	Avrocan E-209	47.00	All
1	Box, Annunciator				
1	Control Box, Master Warning	Avro 7-1152-12	Avrocan E-376	14.05	All
1	Control Box, Master Warning	Avro 7-1152-15043			All
	Element, Sensing, Skin Temperature	(Reference Instruments)			
1	Flasher, Navigation Light	Avro CS-F-106	Avrocan E-224	2.10*	All
1	Light, Red - Wing Tip	Avro 1CS-L-129	Avrocan E-229	0.20*	All
1	Light, Green - Wing Tip	Avro 2CS-L-129	Avrocan E-229	0.80*	All
1	Light, Red - Fin Tip	Avro 7-1183-11	Avrocan E-229	0.80*	All
1	Light, White - Fin Tip	Avro 7-1183-12	Avrocan E-229	0.80*	All
1	Light, Landing			2.00*	
1	Light, Taxi			2.00*	
16	Lamp, Incandescent T.I.-3/4 Bulb	AN 3140-327	MIL-W-L-111	0.002*	All
2	Indicator, Light (Case Grounded)	Avro CS-L-132	Avrocan E-268	0.01*	All
			*Estimated Weight		

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Light, Cockpit Utility	Grimes D7825		0.35	All
24	Indicator, Warning (Cockpit)	Avro 2CS-I-108	MIL-L-3661	0.1*	All
2	Indicator, Warning Dual	Avro 1CS-I-109	MIL-L-3661	0.08*	All
1	Indicator, Warning Dual	Avro 2CS-I-109	MIL-L-3661	0.08*	All
1	Indicator, Warning Dual	Avro 3CS-I-109	MIL-L-3661	0.08*	All
16	Indicator, Warning (Press to Test)	Avro 1CS-I-107	Avrocan E-318	0.08*	All
1	Indicator, Warning	Avro CS-I-108-1-27		0.05	All
1	Indicator, Warning	Avro CS-I-108-1-28		0.05	All
1	Indicator, Warning	Avro CS-I-108-2-29		0.05	All
29	Panel Light Assembly	Grimes MS25010-3A			All
5	Panel Light	Grimes MS25010-3A		0.08*	All
39	Light Fixture, Instrument	Grimes A8285-24		0.08*	All
2	Detector, Power Failure	Avro 7-1156-11		0.10*	All
1	Transformer Rectifier (Control Unit)	Avro 7-1156-12	Avrocan E-296	1.25*	All
5	Transformer, Variable Voltage	Avro CS-T-133	Avrocan E-202	169.50	All
1	Transformer, Primary 200/115V				
3	Phase 400 Cycle - Secondary 115V	Avro 7-1152-31	Avrocan E-291	2.40	
2	Transformer, Linear Variable	Avro 7-1100-23		1.00	All

*Estimated Weight

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Panel, Landing Gear Select Control	Avro 7-1152-8	Avrocan E-279	1.50*	All
20	Relay, 4 PDT-10A-Class A	MS25024-1	MIL-R-6106	0.80*	All
4	Relay, 4 PDT	Avro CS-R-132			
26	Relay, 2 PDT - 10A - Class B	Avro CS-R-122	MIL-R-6106A	0.35*	All
2	Relay, 3 PST - 25A - Class B	MS24143-1	MIL-R-6106	1.45*	All
1	Relay, 4 PDT	Avro CS-R-132			All
1	Relay SPST - 50A - Class B	MS24140-2	MIL-R-6106	0.85*	All
3	Relay, 3 PST - 50A - Class B	MS24144-1	MIL-R-6106	2.50*	All
1	Relay, SPDT - 50A - Class A	Avro CS-R-130			All
1	Relay, SPST - 100A - Class B	MS24141-1	MIL-R-6106	1.35*	All
4	Relay, 3 PST - 100A - Class B	MS24168-1	MIL-R-6106	2.50*	All
2	Relay, Differential Current Protection	Avro CS-R-123	Avrocan E-360	4.60	All
2	Relay, Time Delay	Avro CS-R-126	Avrocan E-285	0.50*	All
3	Relay, Latch In DPDT Class A	Avro CS-R-133	MIL-R-6106A	0.50*	All
1	Relay (L/G)	Avro CS-R-133	MIL-R-6106A	0.50	P5201 2 & 3
1	Relay, Reverse Current	Avro CS-R-135			All

*Estimated Weight

MODEL SPECIFICATION
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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

AAMS-105/1

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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ELECTRICAL (CONT'D)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	Valve, Solenoid, Para-Brake Door Latch	AVRO 7-1159-11		1.00	All
1	Control Box, Master Warning	AVRO 7-1152-15043			All
2	Light	AN3157-3			#5201 Only

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ELECTRONICS - INTERIM SYSTEM

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR

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INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
	X-Band Beacon Installation comprising:-				Complete Provision only for X-Band Beacon Installation
1	Power Supply, Bendix Model RBX-1	Bendix 1080175		4.43	
1	Receiver Transmitter, Bendix Model RBX-1 Radar Beacon	Bendix 556725		5.70	
1	Waveguide Attenuator, X-Band	Avro 7-1362-21		0.90	
1	Waveguide Hybrid T Dummy Load and Tee Section	Avro 7-1362-25		0.80*	
1	Waveguide Crystals Mount and Attenuator X-Band Beacon	Avro 7-1362-23		1.50*	
1	Waveguide, Dorsal Assy. X-Band Beacon	Avro 7-1362-27		0.60	
1	Insulating Shim for X-Band Waveguide	Avro 7-1362-29		0.01	
1	Pressurized Mica Window for X-Band Waveguide	Airtron 54500		0.03	
		*Estimated Weight			

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ELECTRONICS - INTERIM (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>X-Band Waveguide and Antenna Assy. comprising:-</u>				
1	Waveguide, Upper Portion X-Band	Avro 7-1383-61	Avrocan E-404	0.80	All
1	Waveguide, Centre Portion X-Band	Avro 7-1383-63	Avrocan E-404	0.56	All
1	Waveguide, Lower Portion X-Band	Avro 7-1383-65	Avrocan E-404	1.98	All
1	Waveguide, Elbow X-Band	Avro 7-1383-133	Avrocan E-404	0.30	All
2	Half Clamp for Waveguide	Avro 7-1383-75	Avrocan E-404	0.10	All
2	Half Clamp for Waveguide	Avro 7-1383-76	Avrocan E-404	0.10	All
8	Waveguide Seal Round High Temp.	Avro CS-G-109	Avrocan E-404	0.02	All
2	Waveguide, Seal Rectangular High Temperature	Avro CS-G-110	Avrocan E-404	0.02	All
1	Dehydrator (Modified)	Avro 7-1362-45		2.25	All
1	Valve, Check	James, Pond, Clark 224A-4TT		0.25	All
1	Valve, Charging	Avro CS-V-106		0.25	All
1	Antenna X-Band	Avro 7-1383-57	Avrocan E-407	4.27*	All
	<u>IFF AN/APX-6A</u>				
1	Switching Unit, Antenna	Avro 7-1354-13	Avrocan E-437	7.50	All
			*Estimated Weight		

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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ELECTRONICS - INTERIM (CONT'D)

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Low Frequency Radio Compass AN/ARN-6</u>				
2	Control Panel	C-1513A	MIL-C-8425	2.53	All
1	Amplifier Tuning Drive Unit	Avro 7-1354-58		3.75*	All
1	Susceptiformer Unit	Avro 7-1362-47	Avrocan E-498		All
1	Antenna Loop Magnetic	Avro 7-1354-59		8.25	All
1	R.F. Coil Assembly	Avro 7-1354-161	Avrocan E-498		All
	<u>U.H.F. Communication</u>				
1	Antenna, (Fin) U.H.F. - L. Band	Avro 7-1383-55		7.00*	All
1	Antenna, (Lower) U.H.F. Flush Mtg.	Avro 7-1354-11		10.00*	All
1	Switching Unit Antenna	Avro 7-1354-13	Avrocan E-437	15.00*	All
1	Relay, 4 FDT	Avro CS-R-132			25201 2 & 3
	<u>Miscellaneous</u>				
1	Radome, Nose, Plastic	Avro 7-1051-237		181.00*	25201 2 & 3
1	Radome, Nose, Plastic	Avro 7-1051-15021	Avrocan E-411		25204 & 5
					*Estimated Weight

ELECTRONICS - INTERIM (CONT'D)


 MODEL SPECIFICATION
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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
	<u>Miscellaneous</u> (Cont'd)				
1	Fin Cap Fairing			14.90	
1	Dorsal Fairing				
1	Transformer, 115V to 26V CPS	Avro CS-T-154	MIL-T-27	2.00	All
4	Coaxial Plug, Special Type "N"	Avro CS-C-161		0.10	All
1	Coaxial Jack, Special Type "N"	Avro CS-C-160		0.10	All
6	Coaxial Plug, Special Type "HN"	Avro CS-C-159		0.10	All
1	Coaxial Jack, Special Type "HN"	Avro CS-C-158		0.10	All
1	Motor Actuator	Avro 7-1354-12	Avrocan E-347	1.50*	All
6	Relay, 4 P.D.T. Hermetically Sealed	Avro CS-R-131	MIL-R-5757B	0.50*	All
2	Relay, 4 P.D.T.	Avro CS-R-132	MIL-R-5757B	0.50*	All
1	Micro-Switch	Minn. Honeywell MS24331-1		0.50*	All
1	Micro-Switch	Honeywell Controls 21EN9-6		0.25	All
2	Jack, Coaxial, Special Type "HN"	Avro CS-C-168		0.10	All
2	Jack, Coaxial, Special Type "N"	Avro CS-C-170		0.10	All
1	L-Band Antenna Flush Mounting	Avro 7-1354-39	Avrocan E-429	1.50*	All

*Estimated Weight

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ELECTRONICS - INTERIM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
4	Miscellaneous (Cont'd)				
2	Panel Light Assembly	Grimes MS25010-3A		0.08*	All
1	Micro Switch	9AC4			All
	Light Assy. c/w Lamp AN3124-307	Grimes B-3550-307		0.10	All
					*Estimated Weight

ENGINE INSTALLATION

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Drive Alternator, Constant Speed	Avro 7-2995-5	Avrocan E-230	55.00	All
1	Drive Shaft, Engine to Accessory Gear Box, L.H.	Avro 7-2958-7	Avrocan E-206	1.96	All
1	Drive Shaft, Engine to Accessory Gear Box, R.H.	Avro 7-2958-8	Avrocan E-206	2.69	All
2	Drive Shaft, Vertical	Avro 7-2958-9	Avrocan E-206	8.39	All
2	Gear Box, Top Corner	Avro 7-2958-6	Avrocan E-206		All
1	Gear Box, Accessory L.H.	Avro 7-2958-3	Avrocan E-206	48.06	All
1	Gear Box, Accessory R.H.	Avro 7-2958-4	Avrocan E-206	48.06	All
2	Gear Box, Engine Input	Avro 7-2925-3	Avrocan E-206	20.36	All
1	Gear Box, Engine Bevel R.H.	Avro 7-2925-4	Avrocan E-206	22.53	All
1	Gear Box, Engine Bevel L.H.	Avro 7-2925-5	Avrocan E-206	22.53	All
2	Gear Box, Accessory Input	Avro 7-2958-5	Avrocan E-206	26.97	All
1	Gear Box, Fuel Booster Pump L.H.	Avro 7-2958-13	Avrocan E-206	5.80	All
1	Gear Box, Fuel Booster Pump R.H.	Avro 7-2958-14	Avrocan E-206	5.80	All
2	Bearing, Drive Shaft Support	Avro 7-2958-11	Avrocan E-206	2.20	All
2	Drive Shaft Forward Horizontal	Avro 7-2958-173	Avrocan E-206	1.51	All

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ENGINE INSTALLATION (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
2	Drive Shaft Aft Horizontal	Avro 7-2958-175	Avrocan E-206	1.20	All
1	Heat Exchanger, (Air to Oil) Gear Box Oil	Avro 7-2956-3	Avrocan E-387	3.50*	All
1	Heat Exchanger, (Air to Oil) Gear Box Oil	Avro 7-2956-4	Avrocan E-387	3.50*	All
1	Heat Exchanger, (Air to Oil) Engine Oil	Avro 7-2556-3	Avrocan E-386	5.00*	All
1	Heat Exchanger, (Air to Oil) Engine Oil	Avro 7-2556-4	Avrocan E-386	5.00*	All
2	Starter, Motor, Pneumatic	Avro 7-2995-6	Avrocan E-378	20.64	All
2	Switch, Pressure Oil Differential	Avro 7-1195-13	Avrocan E-274	1.13*	All
2	Valve, Ejector Control, Zone 1	Avro 7-1895-41	Avrocan E-390	2.00	All
	Indicator, Exhaust Gas Temp. System	(See Instrument Section)			
	Indicator, Turbine Pressure Ratio	(See Instrument Section)			
	Transducer, Turbine Pressure Ratio	(See Instrument Section)			
1	Filter, Gear Box - Oil System	Avro 7-2958-17	Avrocan E-423	6.00*	All
1	Filter, Gear Box	Avro 7-2958-18	Avrocan E-423	6.00*	All
1	Tank, De-Aerator L.H.	Avro 7-2956-5	Avrocan E-416	3.00*	All
	Valve, Shut-Off, Engine Bleed Air	Refer To Air Conditioning #Estimated Weight			

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

FIRE PROTECTION

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1 Set	Detection System - Aircraft Fire	Avro 7-0111-107 Avro 7-0158-282 Avro 7-1154-18	Avrocan E-420	1.50	All
1	Fire Extinguishing Agent Container and Discharge Valve Assembly Note:- Assy. Avro 7-2358-21 includes Bottle, Valve Discharge, and Valve Shuttle	Avro 7-2358-21		16.00	All

*Estimated Weight

MODEL SPECIFICATION
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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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FUEL SYSTEM

Qty Per A/C	Description	Identification		Unit Wt. in Lbs	Appl. cable A/C
		Part No.	Spec. No.		
2	Adaptor, Pressure Fuel Servicing	Avro 7-1662-447	Avrocan E-243	3.68	All
2	Cap, Pressure Fuel Servicing	Avro 7-1662-471	Avrocan E-271	0.70*	All
2	Valve, Drain Condensate, Tank 1 & 2	Avro 7-1656-8	Avrocan E-368	0.30*	All
2	Valve, Drain Condensate, Tank 3	Avro 7-1662-183	Avrocan E-368	0.40	All
2	Valve, Drain Condensate, Tank 4	Avro 7-1662-189	Avrocan E-368	0.30*	All
1	Valve, Drain Condensate, Tank 5 L.H.	Avro 7-1662-185	Avrocan E-368	0.30*	All
1	Valve, Drain Condensate, Tank 5 R.H.	Avro 7-1662-186	Avrocan E-368	0.30*	All
6	Valve, Drain Condensate, Tank 6, 7 & 8	Avro 7-1662-12	Avrocan E-368	0.25	All
1	Cell, Fuel No. 1 (Forward Fuselage)	Avro 7-1754-5	Avrocan E-370	21.17*	All
1	Cell, Fuel No. 2 (Aft Fuselage)	Avro 7-1754-6	Avrocan E-370	22.15*	All
1	Filter, Hot Air	Avro 7-1654-7	Avrocan E-348	3.10*	All
1	Limitter, Air Flow	Avro 7-1654-199	Avrocan E-300	0.75*	All
2	Limitter, Air Flow	Avro 7-1656-227	Avrocan E-300	0.75*	All
2	Limitter, Air Flow	Avro 7-1662-8	Avrocan E-300	0.687	All
1	Pump, Booster L.H. (Modified)	Avro 7-1662-583	Avrocan E-203	28.00	All
1	Pump, Booster R.H. (Modified)	Avro 7-1662-584	Avrocan E-203	28.00	All

*Estimated Weight

FUEL SYSTEM (Cont'd)

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

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 SEPTEMBER 1958

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Valve, Flow Proportioning Transfer (5 way)	Avro 7-1662-2		22.88*	All
22	Valve, Fuel-No-Air	Avro 7-1600-45	Avrocan E-201	3.50	All
	Valve, Fuel-No-Air (Alternative To Above)	Avro 7-1600-75 & 76			
2	Valve, Air Pressure Regulator (Absolute Ref.)	Avro 7-1600-20	Avrocan E-227	3.25*	All
1	Valve, Air Pressure Regulator (Differential Ref.)	Avro 7-1600-8	Avrocan E-226	2.50*	All
12	Valve, Level Sensing (Pressure Fuel Servicing) Type 1	Avro 7-1600-12	Avrocan E-337	1.58	All
2	Valve, Fuel Level Sensing Type 2	Avro 7-1654-361	Avrocan E-337		All
1	Valve, Air Pressure Relief (Differential Ref.)	Avro 7-1656-5	Avrocan E-289	2.00*	All
2	Valve, Negative "Q" and Low Air Admission (Modified)	Avro 7-1662-1285		0.75	All
4	Valve, Air Release	Avro 7-1600-19	Avrocan E-225	2.41	All
2	Valve, Air Pressure Relief (Absolute Ref.)	Avro 7-1656-4	Avrocan E-288	2.94	All
2	Valve, Shut-Off (Pressure Fuel Servicing Collector Tank)	Avro 7-1600-37	Avrocan E-311	1.67	All
			*Estimated	Weight	

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

FUEL SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
10	Valve, Shut-Off (Pressure Fuel Servicing)	Avro 7-1600-11	Avrocan E-311	1.66	All
2	Valve 1/4" Solenoid Operated	Avro 7-1656-681		0.25	All
5	Valve, Fuel Shut-Off 2 1/2" (Motor Operated)	Avro 7-1600-61	Avrocan E-233	4.90	All
2	Valve, Fuel Shut-Off 3" (Manually Operated)	Avro 7-1662-775	Avrocan E-428	3.50	All
2	Switch Differential Pressure	Avro 7-1656-9		0.64	All
1	Pump, Fuel Transfer L.H.	Avro 7-1656-115		6.95	All
1	Pump, Fuel Transfer R.H.	Avro 7-1656-116		6.95	All
2	Valve, Fuel Pressure Regulator	Avro 7-1656-717	Avrocan E-459	2.20	All
2	Valve, By-Pass Controllable	Avro 7-1656-121	Avrocan E-460	2.50*	All
1	Valve, Air Pressure Regulator	Avro 7-1654-144	Avrocan E-409	0.70	All
4	Valve Element, Swing Check	Avro 7-1662-707	Avrocan E-366	0.12*	All
4	Switch, Low Level Warning	Avro 7-1654-213	Avrocan E-362	0.75*	All
4	Sensor, Liquid Level	Avro 7-1662-981	Avrocan E-362	0.26	All
	Tank Units	(Refer to Instrument List)			
2	Switch, Fuel Pressure	Avro 7-1656-51	Avrocan E-422	0.88	All
2	Valve, Transfer, Pump-By-Pass Override	Avro 7-1656-443	*Estimated Weight		All

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FUEL SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
2	Valve, Vent Intake Type 1	Avro 7-1654-21	Avrocan E-406	2.00	All
4	Valve, Vent Intake Type 2	Avro 7-1654-22	Avrocan E-406	2.00	All
1	Valve, None Return	Flight Refuelling 9807112/5	Avrocan E-406		25202 Only
2	Strainer, Fuel, Filter	Furolator Prod. 58064	Republic A/C RE-S-37		All
1	Valve, Non-Return Air	Avro 7-1654-397			All

*Estimated Weight



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

FLYING CONTROLS

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 7-1552-521	Avrocan E-637	4.75*	
1	Actuator, Linear Elevator Feel and Trim	AIResearch 525330	Avrocan E-586		25201
1	Actuator, Linear, Elevator Feel Trim	AIResearch 525328	Avrocan E-586		25202 & Sub
1	Regulator, Cable Tension, Quadrant Type	Avro 7-1552-165	Avrocan E-222	4.82	All
1	Trim Brake Unit				
	<u>Aileron</u>				
1	Feel and Trim Unit	Avro 7-1552-341	Avrocan E-419	4.34	All
1	Regulator, Cable Tension, Quadrant Type	Avro 7-1552-491	Avrocan E-222	6.00*	All
2	Regulator, Tension Cable Type	Avro 7-1562-51	Avrocan E-327	3.22	All
2	Cable Guard	Avro 7-1552-139	Avrocan E-222	0.08*	All
	<u>Rudder</u>				
1	Actuator, "q" Feel Unit	Avro 7-1583-61	Avrocan E-258	3.00*	All
1	Actuator, Linear "q" (To replace 7-1583-61)	Avro 7-1583-437			All

*Estimated Weight



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FLYING CONTROLS (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Rudder (Cont'd)</u>				
1	Phasing Unit	Avro 7-4613-71			All
1	Actuator, Trim Unit	Avro 7-1583-63	Avrocan E-283	3.50*	All
1	Regulator, Cable Tension Quadrant Type	Avro 7-1552-165	Avrocan E-222	6.00*	All
2	Cable Guard	Avro 7-1552-139	Avrocan E-222	0.08*	All
	<u>Miscellaneous</u>				
1	Grip-Stick Assembly	Avro 7-1552-383		3.34	All
1	Amplifier				
3	Potentiometer, Positional, Control Surface	Avro 7-1100-21		1.00	All
	Indicator, Side Slip		(Refer to Instrument Section)		
					*Estimated Weight

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MODEL SPECIFICATION

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

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FURNISHINGS

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
2	Seat, Structure Assy. (Pilot and Observer/AI)	AVRO 7-2852-12	AVROCAN E-365		
2	Gun, Ejection			103.00	ALL
2	Cartridge, Primary				
4	Cartridge, Auxiliary				
2	Cartridge, Drogue				
2	Parachute (Complete with Harness)	MBEU/7670		27.50	ALL

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HYDRAULICS - UTILITY SYSTEM



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. in Lbs	Appl. 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	All
2	Accumulator, Spherical 5" Dia.	Vickers AA14007-E		25201 Only	
3	Accumulator, Spherical 5" Dia.	Avro 7-1958-185		25202 & Subs	
1	Compensator, Single Pressurized	Avro 7-1956-37	Avrocan E-316	17.00	All
2	Filter, 40 G.P.M. Bowl Type H.P.	Avro 7-1956-23	Avrocan E-353	8.67	All
1	Gauge, Bleed Drain Sight	Avro CS-G-108	Avrocan E-247	0.11	All
1	Regulator, Pressure 40 G.P.M.	Avro 7-1958-51	Avrocan E-462	10.22	All
2	Pump, Constant Delivery	Avro 7-1958-21	Avrocan E-458	18.00	All
1	Valve, Pressure Control	Avro 7-1958-14		3.75	All
1	Valve, Pressure Relief	Avro 7-1958-16	Avrocan E-344	1.25	All
2	Valve, Air Charging and Gauge	Avro CS-V-104	Avrocan E-306	0.75*	All
1	Valve, Air Charging	MS28889-1			All
1	Valve, Manual Dump	Avro 7-1994-12	Avrocan E-342	0.55*	All

*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	Switch, Pressure Warning Type I	Avro 7-3258-35		0.55	All
1	Switch, Pressure Warning Type II	Avro 7-1958-17		0.53	All
1	Filter Element, 50 G.P.M., 4000 P.S.I.	Avro 7-3258-25	Avrocan E-399	0.90	All
1	Valve, By-Pass Control	Avro 7-1956-353	Avrocan E-469	3.00	All
1	Valve, Thermal By-Pass	Avro 7-1956-383	Avrocan E-471	1.89	All
1	Gauge, Reduced Press.	Avro 7-3258-29	Avrocan E-432	0.40	All
1	Heat Exchanger L.H. (Air to Oil)	Avro 7-1956-377	Avrocan E-463	2.00	All
	Heat Exchanger (Oil to Fuel)		(Refer to Hyd. Flying Controls)		
1	Thermometer, Fluid Temperature	Avro 7-3258-327	Avrocan E-327	0.40	All
	<u>Emergency A.C. Power Pack</u>				
1	Valve, Solenoid Shut-Off	Avro 7-1956-569		1.00	All
1	Power Pack, Hydraulic Driven	Avro 7-1956-567	Avrocan E-506	12.50	All
	<u>Hydraulic Landing Gear</u>				
2	Swivel Assembly	Avro 7-1962-387		2.00	All
2	Swivel End	Avro 7-1962-391		1.00	All
2	Swivel (Return) M/G Jack	Avro 7-1962-37	Avrocan E-373	1.00	All
			*Estimated Weight		



HYDRAULICS - UTILITY SYSTEM (Cont'd)



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt.In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Hydraulic Landing Gear</u> (Cont'd)				
2	Elbow Swivel, N/G Door Jack	Avro 7-1952-25	Avrocan E-310	0.95	All
2	Elbow Swivel, N/G Door Jack	Avro 7-1952-22	Avrocan E-310	0.70	All
1	Jack, M/G Operating L.H.	Avro 7-1962-17	Avrocan E-367	15.77	All
1	Jack, M/G Operating R.H.	Avro 7-1962-18	Avrocan E-367	15.77	All
2	Swivel Assy. M/G Downlock Release	Avro 7-1962-63	Avrocan E-446	1.00	All
1	Jack, N/G Operating	Avro 7-1952-21	Avrocan E-312	11.00	All
2	Jack, M/G Door	Avro 7-1962-23	Avrocan E-320	14.00	All
1	Jack, N/G Door	Avro 7-1952-12	Avrocan E-331	5.28	All
2	Jack, M/G Uplock Release	Avro 7-1962-11 or 7-1962-15023	Avrocan E-305	0.70	All
6	Jack, M/G Door Uplock Release	Avro 7-1962-12 OR Avro 7-1962-15025	Avrocan E-304	0.55	All
1	Jack, N/G Uplock Release	Avro 7-1052-1141	Avrocan E-336	2.93	All
1	Jack, N/G Door Uplock Release	Avro 7-1952-24		1.77	All
1	Valve, L/G Selector	Avro 7-1956-12	Avrocan E-292	4.55	All
3	Valve, L/G Transfer	Avro 7-1952-19	Avrocan E-324	1.57	All
6	Valve, Sequence	Avro 7-1900-11		1.09	All

*Estimating Weight

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HYDRAULICS - UTILITY SYSTEM (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
	<u>Hydraulic Landing Gear</u> (Cont'd)				
1	Valve, Emergency By-Pass L/G Down	Avro 7-1956-21	Avrocan E-351	1.25	All
3	Valve, Shuttle L/G	Avro 7-1952-16		0.44	All
2	Valve, Flow Regulator Nose	Avro 7-1952-195	Avrocan E-430	0.32	All
2	Valve, Flow Regulator Main	Avro 7-1962-65	Avrocan E-430	0.57	All
1	Valve, Fixed Orifice Restrictor Nose	Avro 7-1952-194	Avrocan E-499	3.20	All
1	Valve (Modified) Replacement When Available	Avro 7-1952-483	Avrocan E-499	0.32	All
2	Valve, Fixed Orifice Restrictor Main	Avro 7-1962-67	Avrocan E-449	0.32	All
3	Valve, Pressure Reducing L/G	Avro 7-1962-307	Avrocan E-507	0.65	All
2	Valve, Check	Avro 10CS-V-103	Avrocan E-208		All
1	Valve, Selector	Avro 7-1956-12	Avrocan E-292	4.55	All
1	Valve, By-Pass	Avro 7-1956-21	Avrocan E-351	1.25	All
2	Valve, Shuttle	Avro 7-1952-16	Avrocan E-315	0.44	All
3	Valve, Stop	Avro 7-1952-295	Avrocan E-313	0.59	All
	<u>Emergency Air Pressure</u>				
1	Bottle, Air Storage (5000 P.S.I.)	Avro 7-1952-14	Avrocan E-335	11.70	All
1	Belt, Air Storage Bottle	Avro 7-1952-172	Avrocan E-335	0.436	All

*Estimated Weight

HYDRAULICS - UTILITY SYSTEM (Cont'd)

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	<u>Emergency Air Pressure (Cont'd)</u> Valve, Air Charging and Gauge	Avro CS-V-104	Avrocan E-306	0.75*	All
1	Valve, Air Pressure Relief (5500 PSI)	Avro 7-1952-31	Avrocan E-396	0.07	All
1	Valve, Emergency L/G Lowering	Avro 7-1952-13	Avrocan E-313	0.59	All
2	<u>Nose Wheel Steering</u> Elbow, Swivel	Avro 7-1952-29	Avrocan E-310	0.528	All
1	Valve, Solenoid Selector	Avro 7-1952-23	Avrocan E-354	2.00	All
2	<u>Wheel Brakes</u> Valve, Brake Control	Avro 7-1954-281	Avrocan E-314	5.60	All
2	Valve, Shuttle	Avro 7-1992-107		0.47	All
4	Adaptor, Wheel Brake Unit	Avro 7-1992-45	Avrocan E-398	0.12	All
2	<u>Speed Brake Sub-System</u> Jack, Speed Brake	Avro 7-1956-7	Avrocan E-357	10.77	All
1	Valve, Speed Brake Selector	Avro 7-1956-13	Avrocan E-359	3.60	All

*Estimated Weight

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED



HYDRAULICS - FLYING CONTROL SYSTEMS

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Elevator</u>				
1	Actuator L.H.	Avro 7-3262-15	Avrocan E-205	89.75	All
1	Actuator R.H.	Avro 7-3262-18	Avrocan E-205	89.75	All
2	Servo, Differential	Avro 7-3260-11		6.00*	All
2	Rod End, Servo Differential	Avro 7-3262-213			All
1	Servo, Parallel Type 1	Avro 7-3262-165	Avrocan E-297	7.00*	All
2	Valve, Control	Avro 7-3262-33	Avrocan E-205	3.00*	All
	<u>Aileron</u>				
1	Actuator L.H.	Avro 7-3264-23	Avrocan E-272	36.50	All
1	Actuator R.H.	Avro 7-3264-24	Avrocan E-272	36.50	All
2	Servo, Differential	Avro 7-3260-11		6.00*	All
2	Rod End, Servo Differential	Avro 7-3264-175			All
1	Servo, Parallel Type 2	Avro 7-3262-167	Avrocan E-297	7.00*	All
2	Valve, Control	Avro 7-3264-12	Avrocan E-272	3.00*	All
	<u>Rudder</u>				
1	Actuator	Avro 7-3283-5	Avrocan E-278	23.50*	All

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED



HYDRAULICS - FLYING CONTROL SYSTEMS (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
	<u>Rudder</u> (Cont'd)				
1	Servo, Differential	Avro 7-3283-7		9.40*	All
1	Valve, Control	Avro 7-3283-8	Avrocan E-278	3.00*	All
	<u>Miscellaneous</u>				
	<u>Elevator and Aileron Booster</u>				
2	Valve, Reducing	Arkwin 52-27A-3			All
1	Valve, Reducing	Avro 7-3251-97			All
2	Booster	Nat. Waterlift Co. 1256-0			All
4	Valve, Check	Ausco-H-34			All
2	Filter 5 Micron	Fairey FCH-46			All
2	Accumulator, 25 Cu. In.	Avro 7-3251-57 Bendix 548025			All
2	Accumulator, 12 Cu. In.	Avro 7-3252-235			All
2	Filter 10 Micron	Avro 7-3252-37			All
1	Amplifier (Auto Stabilization)				25204 & 5
1	Accelerometer, Lateral Switching			2.00	
					*Estimated Weight

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HYDRAULICS - FLYING CONTROL SYSTEMS (Cont'd)

Qty Per A/C	Description	Identification		Unit Appli- Wt. In Lbs cable A/C
		Part No.	Spec. No.	
	Miscellaneous (Cont'd)			
2	Potentiometer, Triple Element Rectilinear	Avro 7-1164-11		1.00* All
1	Switch, Pressure Type 3	Avro 7-3258-1009	Avrocan E-658	All
2	Accumulator, Self Displacing (100 Cu. In.)	Avro 7-3258-41	Avrocan E-210	All
1	Accumulator, 80 Cu. In. Floating Piston	Avro 7-1956-381	Avrocan E-210	All
2	Compensator, 475 Cu. In. (90 PSI)	Avro 7-3258-37	Avrocan E-231	29.40
2	Filter Body H/P 40 GPM Bowl Type	Avro 7-3258-43	Avrocan E-249	11.40 All
4	Filter Element 7 GPM (Aileron)	Avro 7-3264-14	Avrocan E-330	0.29* All
2	Filter Element 4 GPM	Avro 7-3283-9	Avrocan E-330	0.24* All
2	Filter Element 40 GPM 4000 PSI	Avro 7-3258-25	Avrocan E-399	All
2	Filter 1.5 GPM Booster System	Avro 7-3252-32		All
2	Gauge - Bleed Sight Drain	Avro CS-G-108	Avrocan E-247	0.11 All
1	Heat Exchanger Hyd. (Oil to Fuel) C/W By-Pass Valves L.H.	Avro 7-3256-5	Avrocan E-389	23.20 All
1	Heat Exchanger Hyd. (Oil to Fuel) C/W By-Pass Valves R.H.	Avro 7-3256-6	Avrocan E-383	23.20 All
			*Estimated weight	

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HYDRAULICS - FLYING CONTROL SYSTEMS (Cont'd)

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	Miscellaneous (Cont'd)				
2	Manifold H/P Pump Delivery	Avro 7-3258-16	Avrocan E 340	2.08	All
4	Pump, Variable Delivery	Avro 7-3258-13	Avrocan E-284	32.00	All
2	Valve, Pressure Control	Avro 7-3258-14	Avrocan E-476	2.98	All
2	Valve, Hyd. Check	Avro CS-V-103-10	Avrocan E-208	0.53	All
2	Valve, Air Charging and Gauge	Avro CS-V-104	Avrocan E 306	0.75*	All
2	Switch, Pressure Warning Type I	Avro 7-3258-35		0.55	All
2	Gauge, Reduced Pressure	Avro 7-3258-29	Avrocan E-432	0.31	All
1	Heat Exchanger (Air to Oil)	Avro 7-3256-3	Avrocan E-388	3.70*	All
1	Heat Exchanger (Air to Oil)	Avro 7-3256-4	Avrocan E-388	3.70	All
2	Indicator, Fluid Level	Avro 7-3258-145	Avrocan E-456	0.40*	All
2	Thermometer, Fluid Temperature	Avro 7-3258-327	Avrocan E-479	0.40	All

*Estimated weight

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ICE ELIMINATION

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*	All
1	Boot R.H.	Avro 7-2055-92		2.64*	All
1	Boot L.H.	Avro 7-2055-93		10.86*	All
1	Boot R.H.	Avro 7-2055-94		10.86*	All
1	Boot L.H.	Avro 7-2055-95		4.11*	All
1	Boot R.H.	Avro 7-2055-96		4.11*	All
1	Boot L.H.	Avro 7-2055-97	Avrocan E-218	3.18*	All
1	Boot R.H.	Avro 7-2055-98		3.18*	All
1	Boot L.H.	Avro 7-2055-101		3.02*	All
1	Boot R.H.	Avro 7-2055-102		3.02*	All
1	Boot L.H.	Avro 7-2055-103		2.11*	All
1	Boot R.H.	Avro 7-2055-104		2.11*	All
1	Boot L.H.	Avro 7-2055-117	Included In Boot No. 1		All
1	Boot R.H.	Avro 7-2055-118			
1	Controller Electrical	Avro 7-2052-113	Avrocan E-214	25202 & Sub.	
				*Estimated Weight	

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED



Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	<u>Airframe De-Icing</u> (Cont'd) Mounting Tray, Distributor	Avro 7-2052-97	Avrocan E-217	All	All
1	Mounting Tray, Distributor	Avro 7-2052-98	Avrocan E-214 & E-217	All	All
2	Control Box, Power Distributor	Avro 7-2052-12	Avrocan E-217	9.00*25202 & Sub.	
2	Relay, 3 PST 25A Class B	MS-24143-1	MIL-R-6106	1.00*	All
26	Thermostat, Surface De-Icing 70°F	Avro 7-2055-62	Avrocan E-220	2.40*	All
2	<u>Engine Anti-Icing</u> Detector, Ice	Avro 7-2055-27	Avrocan E-213	3.00*25202 & Sub.	
2	Filter	Avro 7-2055-105	Avrocan E-213	1.25	25202 & Sub.
4	<u>Windshield Anti-Icing</u> Box, Windshield Temp. Control	AiResearch 547150		2.50*	All
4	Sensing Elements	Avro 7-2052-16	Avrocan E-496	18.35	All
1	Transformer, Windshield Canopy	Avro 7-2052-15	Avrocan E-454	0.60*	All
4	Relay, Power, Windshield Canopy		*Estimated Weight		

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Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
	<u>Windshield Anti-Icing (Cont'd)</u>				
1	Panel, L.H. Side Windshield	Avro 7-1052-1387	Avrocan E-223	38.00	All
1	Panel, R.H. Side Windshield	Avro 7-1052-1388	Avrocan E-233	38.00	All
4	Thermostat, Canopy Windshield				
1	Window, Canopy Side L.H., Pilot	Avro 7-1053-211	Avrocan E-223	31.73	All
1	Window, Canopy Side R.H., Pilot	Avro 7-1053-212	Avrocan E-223	31.73	All
					*Estimated Weight

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED



INSTRUMENTS

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	Boom, Pitot Static	USAF Type MA-1	MIL-P-25632A		All
1	Pressure Head, Pitot Static	Avro 7-1654/---	Avrocan E-323		All
2	Pitot, Fin	Avro 7-1662/---			
2	Tube, Pitot Static	Avro 7-1252-14		1.50*	All
38	Tank Units (Fuel Quantity System) 4 34	Avro 7-1252-16	Avrocan E-358	1.50*	All
2	Indicator (Fuel Quantity System)	Avro 7-1858-13	Avrocan E-358	6.00	All
2	Indicator, Turbine Pressure Ratio	Avro 7-1252-13	Avrocan E-402	1.50*	All
2	Transducer, Turbine Pressure Ratio	Avro 7-1252-15	Avrocan E-418	1.50*	All
2	Indicator, Exhaust Gas Temperature	Avro 7-1152-106	Avrocan E-418	1.00*	All
1	Indicator, Skin Temperature	(Refer to Electrical Section)			
1	Element Sensing Skin Temperature	AN 5839-1	MIL-I-6839	0.16	All
3	Panel Landing Gear, Select Control	Avro 7-1252-15142	Avrocan E-453		All
1	Indicator, Landing Gear Position	Avro 7-1252-258	Avrocan E-526		All
1	Indicator, Control Surface Position				
1	Indicator, Side Slip				
					*Estimated Weight



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

INSTRUMENTS (Cont'd)

Qty Per A/C	Description	Identification		Unit Wt., In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
1	Indicator, Side Slip (Retrofit for A/C 25204 & 5)	Aviation Elec. 3913-1U-A1-1	MIL-I-7627A		25204 & 5
1	Indicator, Vertical Velocity	Aviation Elec. 1652-6Z-A6-1	MIL-I-18804		25204 & 5
2	Tachometer Indicator	Can. Gen. Elec. 8DJ81CAA-1			All
2	Tachometer Generator	Can. Gen. Elec. 2CM9AAH-4			All
1	Sensor, Relative Wind & Air Pressure	Avro 7-1851-23	Avrocan E-560		All
1	Sensor, Relative Wind & Air Pressure	Avro 7-1851-21	Avrocan E-560		All
	<u>Oxygen Quantity System</u>				
1	Indicator, Quantity (Liquid Oxygen) including Amplifier 7-2154-16	Avro 7-2152-12	Avrocan E-329		All
1	Indicator Repeater, Quantity Gauge	Avro 7-2152-101	Avrocan E-329		All
					*Estimated Weight



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

LANDING GEAR

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl- cable A/C
		Part No.	Spec. No.		
4	Brake, Main	Avro 7-1092-237		8.50	All
1	Landing Gear, Main L.H.	Avro 7-1092-3	Avrocan E-211	674.90	All
1	Landing Gear, Main R.H.	Avro 7-1092-4	Avrocan E-211	674.90	All
1	Landing Gear, Nose	Avro 7-4291-1		285.00	All
1	Liquid Spring	Avro 7-4291-2	Avrocan E-254	25.63	All
4	Tire, Tubeless, Main	Avro 7-1092-13	Avrocan E-251	46.50*	All
	Alternative:				
4	Tire, Main	Goodyear		42.50*	
4	Tube, Main	Goodyear		6.00*	
2	Tire, Nose Tubeless	Avro 7-4291-4	Avrocan E-252	12.50	All
4	Wheel, Main	Avro 7-1092-13	Avrocan E-228	31.00*	All
2	Wheel, Nose	Avro 7-4291-4	Avrocan E-257	8.60*	All
	<u>Para-Brake</u>				
1	Drag-Chute, Deceleration, First Type	Avro 7-3159-11	Avrocan E-465	76.40	All
1	Cable Tension Regulator	Avro 7-3352-95	Avrocan E-371	2.50*	All

*Estimated Weight

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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appli- cable A/C
		Part No.	Spec. No.		
2	Bottle	Avro 7-2152-63	MIL-C-7905A	3.50	All
2	Valve, Oxygen Starting	Avro 7-2152-15	Avrocan E-286	1.25*	All
	Including:				
	Valve, Starting				
	Gauge, Emergency				
	Valve, Charging				
1	Converter, 5 Litre	Avro 7-2154-14	Avrocan E-329	45.00	All
1	Tray - Mounting	Avro 7-2154-15	Avrocan E-329	2.50*	All
2	Disconnect, Composite Leads	Avro 7-2152-11	Avrocan E-269	2.80*	All
2	Valve, H/P Check	AN 6017-1	MIL-V-5027A	2.50	All
2	Regulator, (Combination Unit)	Type F2400-1000	MIL-R-25572		25201 only
2	Regulator	Type 2400-11C	MIL-R-25572		25202 & Sub.
2	Valve, Pressure Reducing	Type FL17130-1	MIL-R-25572		All
2	Flow Tester	Type F50825-3	MIL-R-25572		25202 & Subs.
	Indicator, Quantity (Liquid Oxygen)				
	Indicator, Repeater				
		Refer to Instruments		*Estimated Weight	



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CONTRACTOR FURNISHED EQUIPMENT - CONTRACTOR INSTALLED

PNEUMATICS - LOW PRESSURE

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	0.31	All
1	Seal, Canopy Inflating L.H. Pilot's	Avro 7-1053-101	Avrocan E-343	2.50*	All
1	Seal, Canopy Inflating R.H. Pilot's	Avro 7-1053-102	Avrocan E-343	2.50*	All
1	Seal, Canopy Inflating L.H. Observer/AI	Avro 7-1053-121	Avrocan E-343	2.26*	All
1	Seal, Canopy Inflating R.H. Observer A/I	Avro 7-1053-122	Avrocan E-343	2.26*	All
2	Valve, Anti "g"	Avro 7-1852-12	MIL-V-9370	1.94*	All
1	Valve, Canopy Seal Control	Avro 7-1852-14	Avrocan E-332	1.20	All
1	Valve, Pneumatic Check	Parker 1111-565122			All
	Valve, Pneumatic Check	(Refer to Engine Installation)			
1	Seal, Armament Pack (Front)	Avro 7-1854-21			All
2	Seal, Armament Pack (Side)	Avro 7-0754-30584-1			

*Estimated Weight

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PNEUMATICS - LOW PRESSURE

Qty Per A/C	Description	Identification		Unit Wt. In Lbs	Appl. cable A/C
		Part No.	Spec. No.		
1	Filter, Hot Air	AVRO 7-1852-13	AVROCAN E-328	0.31	All
1	Seal, Canopy Inflating L.H. Pilot's	AVRO 7-1053-101	AVROCAN E-343	2.50*	All
1	Seal, Canopy Inflating R.H. Pilot's	AVRO 7-1053-102	AVROCAN E-343	2.50*	All
1	Seal, Canopy Inflating L.H. Observer/AI	AVRO 7-1053-121	AVROCAN E-343	2.26*	All
1	Seal, Canopy Inflating R.H. Observer A/I	AVRO 7-1053-122	AVROCAN E-343	2.26*	All
2	Valve, Anti "G"	AVRO 7-1852-12	MIL-V-9370	1.94*	All
1	Valve, Canopy Seal Control	AVRO 7-1852-14	AVROCAN E-332	1.20	All
1	Valve, Pneumatic Check	Parker 1111-565122	(Refer to Engine Installation)		All
1	Valve, Pneumatic Check	AVRO 7-1854-21			
1	Seal, Armament Pack (Front)	AVRO 7-0754-30584-1			
2	Seal Armament Pack (Side)				

*Estimated Weight

UNCLASSIFIED
CONFIDENTIAL

QUO-TANG
3558
MADE IN U.S.A.