616PS

S/N: T-316

Times and cycles 11,407.5 ACTT 7,858 ACTC 8,044.8 HOBBS
as of 09/25/2026

Left Engine P-35051C. Overhauled and installed June 20, 2001.
ETSN: 11,267.2 ETSO: 2,358.6 ECSN: 7,858 ECSO: 7,858
Hot Section performed August 22, 2024. TTSHSI: 12.9

Right Engine P-35056C. Overhauled and installed September 16, 2000.
ETSN: 11,117.5 ETSO: 2,739.4 ECSN: 7,418 ECSO: 7,418

Hot Section performed August 22, 2024. TTSHSI: 12.9

Left Propeller S/N: EAA1983. Overhauled and installed May 16, 2024.

TSO: 12.9

Right Propeller S/N: CDA4082. Overhauled and installed May 16, 2024.
TSO: 12.9

Last Inspection performed: SA-226 Phase 8 on May 20, 2026.

Equipment List N616PS Merlin IIIB

Model SA226 T/B **S/N: T-316** **Revised: 3-Mar-26**

On AC	QTY	PART NO.	DESCRIPTION	WT. (lbs)	ARM (inch)
		ENGINES			
			Engine & Accessories, AiResearch		
	2	P/N 3102050-2	TPE331-10U-501G	782.0	94.00
	2	P/N 3102050-3	TPE331-10U-502G	782.0	94.00
X	2	P/N 3102050-5	TPE331-10U-512G	782.0	94.00
X	2	P/N AG-34 or AG-44	Tach Generator, Donnallco	2.0	99.00
	2	P/N 23079-000-1	Starter/Generator Lear-Siegler	62.0	93.00
	2	P/N 23079-000	Starter/Generator Lear-Siegler	62.0	93.00
	2	P/N 23069-015	Starter/Generator Lear-Siegler	62.0	93.00
	2	P/N 23065-504	End Bell Q.A.D. Kit	3.0	88.00
	2	P/N 23072-510	End Bell Q.A.D. Kit	3.0	88.00
X	2	P/N PV3-044026	Hydraulic Pump, Vickers	10.0	79.00
		Adel P/N 71126	Boost Pump	28.0	189.00
		Airborne P/N ID2-9	Boost Pump	24.0	194.00
X	2	P/N 10198	Torque Transducer, Travis	3.0	99.00
X	4	P/N LM827-SA10	Engine Mount (side) Lord	23.0	89.00
X	2	P/N LM827-SA11	Engine Mount (Lower) Lord	8.0	89.00
X	2	P/N J7401-20	Engine Mount (rear) Lord	2.0	111.00
X	1	P/N 27-B2057	Engine Fire Warning, Swearingen	2.0	99.00
	2		Optional Engine Fire Extingusher System		
		PROPELLERS			
	2	P/N HC-B4TN-5DL	Hartzell Prop & Hub Assy 106" Diameter	356.0	69.00
	2	P/N HC-B4TN-5EL	Hartzell Prop & Hub Assy 106" Diameter	356.0	69.00
X	2	P/N HC-B4TN-5HL	Hartzell Prop & Hub Assy 106" Diameter	356.0	69.00
	2	P/N D3434-4L	Hartzell Spinner & Bulkhead Assembly	24.0	70.00
	2	P/N D3434-7P	Hartzell Spinner & Bulkhead Assembly	24.0	70.00
X	1	P/N 65-210-2	Propeller Deice Kit - BF Goodrich	4.0	75.00
X	2	P/N A4033-E	Unfeathering Pump, Weldon Tool	3.0	96.00
		LANDING GEAR			
X	4	3-1283 (Magnesium)	Wheel, Main, BF Goodrich	31.0	191.00
	4	3-1357 (Aluminum)	Wheel, Main, BF Goodrich	38.0	191.00
X	4	P/N 2-1203	Brake Assembly, BF Goodrick	66.0	191.00

Inst	QTY	PART NO.	DESCRIPTION	WT. (lbs)	ARM (inch)
LANDING GEAR, Continued...					
	4	P/N 2-1203-1	Brake Assembly, BF Goodrick	66.0	191.00
	4	P/N 021-335	Tire, Main, BFG 19.5x6.75-8 10 Ply	47.0	191.00
X	4	276070-AR-3308ASAZR	Tire, Main, BFG 19.5x6.75-8 10 Ply	47.0	191.00
X	1	P/N 27-19087-1/-2	Hydraulic Steering Unit, Swearingen	8.0	62.00
X	2	P/N 9544207	Wheel, Nose, BF Goodrick	17.0	64.00
X	2	021-6111	Tire, Nose, Michelin	17.0	64.00
X	4	27-51016-3	Actuator, Main Landing Gear	16.0	178.00
X	2	27-52010-3	Actuator, Nose Landing Gear	8.0	52.00
X	1	AN6201-1	Hydraulic Hand Pump	2.0	122.00
X	2	27-36053-1	Actuator, Wing Flaps	4.0	207.00
X	1	27-81009-15	Hydraulic Reservoir	17.0	125.00
X	4	VI-15-1000	Cylinder, Manster Break	3.0	72.00
X	2	19100-3	Valve, Check and Relief	2.0	166.00
X	1	18900-1	Sight Glass	1.0	127.00
X	2	18900-1	Landing Gear Spade Doors	8.0	200.00
	2	DRW 27-85016	Anti-Skid Brakes		
X	2	AV24B1304	Valve, Electric Shutoff	2.0	133.00
AIR CONDITIONING & PRESSURIZATION					
X	2	2200620-1	Refrigeration Unit	35.0	157.00
X	2	979458-4	Mod-Valve, Airesearch	5.0	152.00
X	2	85020-2	Water Separator, Airesearch	4.0	159.00
X	2	BYLB50437	Actuator, Barber Colman	3.0	151.00
	1	30D40	Blower, Fresh Air	5.0	55.00
X	1	27089	Blower, Fresh Air	5.0	55.00
X	1	103464-7	Valve, Outflow	3.0	425.00
X	1	103462-3	Valve, Safety	2.0	72.00
X	1	102076-11	Controller, Pressurization	3.0	86.00
X	2	392908-1-1	Flow Control Valve Assemply	6.0	148.00
X	1	27-82453-11	Cabin Temp Control	1.0	221.00
SURFACE DEICING					
X	1	25S-5D5071-01	WING DEICER, LEFT	8.0	154.00
X	1	25S-5D5071-02	WING DEICER, RIGHT	8.0	154.00
X	2	25S-5D5071-03	HORIZONTAL STABILIZER DEICER	8.0	376.00
X	1	1532-3C	VALVE, DISTRIBUTOR	2.0	152.00
X	1	38E85-2B	VAVLE, PRESSURE REGULATOR	2.0	159.00
	2	133A3	VAVLE, VACUUM	2.0	154.00
X	2	ZH3-2	VAVLE, VACUUM	2.0	154.00

Inst	QTY	PART NO.	DESCRIPTION	WT. (lbs)	ARM (inch)
SURFACE DEICING Continued....					
X	1	3124-1A30	VACUUM WARNING UNIT	1.0	146.00
INSTRUMENTS & INDICATORS					
X	1	MS17983-2	Magnetic Compass	1.0	93.00
	2	26-86021-1	Altimeter	3.0	87.00
X	2	29702-052	Altimeter	3.0	87.00
	2	26-86022-1	Rate of Climb Indicator	3.0	87.00
X	2	SL 29068	Rate of Climb Indicator	3.0	87.00
	2	26-86024-3	Turn & Bank Indicator	2.0	87.00
X	2	P/N 2800-23	Turn & Bank Indicator	2.0	87.00
X	2	26-66306-1	Engine RPM Gauge	2.0	87.00
X	1	26-83001-1	Oxygen Pressure Indicator	2.0	87.00
X	2	DSF 1549-2	Fuel Flow Indicator	2.0	87.00
X	2	27-86022-3	Airspeed Indicator	2.0	87.00
X	2	27-66004-017	Engine Temperature Indicator	2.0	87.00
	2	27-66108-1	Torque Indicator	1.0	87.00
X	2	27-66010-9	Torque Indicator	1.0	87.00
	2	27-66009-1	Oil Temperature Indicator	2.0	87.00
X	2	80099-204A	Oil Temperature Indicator	2.0	87.00
	2	418-03041	Fuel Pressure Transmitter	2.0	118.00
X	2	27-66006-1	Fuel Pressure Transmitter	2.0	118.00
	2	27-66007-1	Fuel Quantity System Indicator	4.0	156.00
X	2	DSF 684-1	Fuel Quantity System Indicator	4.0	156.00
ELECTRICAL					
X	1	DL5040M2-4	Servo, Horizontal Stabilizer	13.0	358.00
	2	26-33330-7	24V Nickle-Cadmium 25 Amp Battery	107.0	3.00
X	2	RG 91	Concord Lead Acid Batteries	110.0	3.00
X	2	51509-002	Regulator, Voltage (in Nacelle)	6.0	131.00
X	1	50284-001	Battery Fault Pannel	1.0	117.00
X	1	40-0100-1	Rotating Beacon	3.0	449.00
X	2	PC-17-3	Inverter	29.0	62.00
X	1	26-21126-5	Electric Windshield, Left	21.0	88.00
X	1	26-21126-6	Electric Windshield, Right	24.0	88.00
X	2	GE4502	Ice Light	5.0	144.00
X	1	27-82300-5	Landing Light	6.0	201.00
X	1	27-82300-21	Landing Light	6.0	201.00
X	1	13B0022	Switch, Airspeed	1.0	63.00

Inst	QTY	PART NO.	DESCRIPTION	WT. (lbs)	ARM (inch)
ELECTRICAL Continued....					
X	1	27-82394	Transmitter, Flap Position	1.0	217.00
X	1	455318AA-3	Pressure Transducer	1.0	63.00
X	1	54302-2	SAS^2 Computer	2.0	69.00
X	1	27-44049-21	Servo, Yaw Damper	5.0	373.00
X	2	27-44049-19	Capstan Assembly	2.0	375.00
X	2	897260-4	ΔP/P Transducer	2.0	171.00
X	2	2101826-3	SLR Computer	8.0	69.00
X	2	949596-1	Temperature Limiter	3.0	69.00
X	1	27-44049-21	SAS^2 Servo Yaw Damper	5.0	128.00
X	1	27-44049-19	SAS^2 Capstan Assemply, Yaw Damper	2.0	128.00
X	1	27-67032	CAWI Tank Assembly Complete	24.0	20.00
X	2	P/N 71126	CAWI Pump, Crane	7.0	37.00
MISC. SYSTEMS					
	2	AN5812-1	Pitot Head	2.0	63.00
X	2	PH502	Pitot Head	2.0	63.00
	1	ZC419	Oxygen Cylinder Assemply	13.0	4.00
X	1		Oxygen Cylinder Assemply		4.00
X	1	38-535	Power Break Relay Valve	5.0	69.00
	1	42-363	Anti-Skid Control Box	2.0	69.00
FURNISHINGS					
X	2		CREW SEATS	60.0	111.00
	1		LARGE BAR/GALLEY	15.0	141.00
	1		Single Passenger seat (hydraulic)	35.0	
X	1		Swivel pax seat with headrest aft facing	32.0	151.00
X	1		Swivel passenger seats with headrest	32.0	201.00
X	2		Swivel passenger seats with headrest	32.0	243.00
X	1		Belted Toilet Seat	4.0	274.00
X	1	148-201	4 SEAT COUCH	55.0	175.00
	1	163-201	3 SEAT COUCH	47.0	182.00
			NOTE AFM Configuration "D"		
AVIONICS					
X	1	011-00550-30	GARMIN GNS 530	8.5	70.50
X	1		Garmin GA 56 Antenna	0.3	110.00
	1	011-03300-00	GARMIN GTX 335		
X		VHF 20	Collins VHF - COM 2	5.0	24.06

Inst	QTY	PART NO.	DESCRIPTION	WT. (lbs)	ARM (inch)
AVIONICS Continued....					
X		VIR 30	Collins NAV - Nav 2	5.8	24.06
X			Collins ADF 60	4.2	24.06
X		HF	Bendix KHF 950		
X	1	P/N IN2027A	Bendix Weather Radar	11.0	79.38
	1	339H-4	Radar Altimeter Indicator	1.5	72.38
X	1	DA-1203A	Radar Altimeter	8.0	0.00
X	2	RT-131A	Radar RT	10.5	24.06
	1	ADC200	Fuel Air Data		
X	1	Collins FSC-80	Flight Control System	5.8	24.06
	1	Collins FDS-84	Flight Director System		
X	2	P/N 328A-36	Collins Amp	3.7	24.06
X	1	P/N 562C-8F	Yaw Damper	2.8	24.06
	2	Baker J-2A/B	Audio Pannel	2.2	72.38
	1	ADC200	Fuel Air Data		
	1		Shadin ADC Fuel Air Data	2.4	26.00
X	2	P/N 332E-4	Directional Gyro	4.9	24.06
	1	P/N 699K-2	Trim Adapter	3.0	67.06
	1		B&D Cabin Display Transducer	1.2	67.06
	1		B&D Airspeed Sensor	0.7	67.06
	2	P/N 3137	Aerometics RMI	2.5	72.38
	1		Collins HSI-84	5.0	72.38
	1		Collins ADI-84	4.9	72.38
	1		IDC Rad Beu Alerter	3.3	72.38
	2	TDR-90	Collins Transponder	3.5	342.06
	1	ELT10	Narco ELT	0.3	342.06
X	1	P/N A3-06-2880	Airtex 345 ELT Assembly	2.0	342.08
	1	P/N A3-06-3214	Airtex Remote Switch	0.1	60.31
	1	P/N A3-06-2882-1	Airtex Antenna	0.3	340.00
	1	P/N A3-06-2880	Airtex Buzzer	0.1	342.08
	1	RT-18	Wultsberg Flightphone	7.6	342.00
	1	Mod 612	II Morrow Loran	3.7	275.85
	1	A23	II Morrow Antenna	0.4	370.00
	1		II Morrow Ann Light	0.2	81.00
	1	RSU 21	Clinton Av. Relay Unit	0.5	16.00
	1	ANT-60A	Collins ADF Antenna	1.4	262.00
			Collins ADF Control	1.3	79.38