SYSTEM AND ITEM		INSPECTION REQUIREMENT	ROUTINE	A	B	C CHECK X 500 HOURS											
						1	2	3	4	5	6	7	8	9	10	11	D or 12
Chapter 61 – Propellers																	
1.	Autofeather System																
1.a.	Autofeather System - Relay Box **Airworthiness Directive** **C.F. 73-04** **C.F. 73-09** **F.A.A. 73-19-01**	Security of mounting. Clean as required. **Note** **Refer to Service Bulletin No. 6/297 and A.D., if applicable.** (Card 32–09)									X						X
1.b.	Autofeather System - Limit Switches and Mechanism	Condition and security; wiring for condition and connectors for security. Clean as required. (Card 11–19)				X	X	X	X	X	X	X	X	X	X	X	X
1.c.	Autofeather System	Operational test on engine run-up. (Card FUN–C5a)				X	X	X	X	X	X	X	X	X	X	X	X
2.	Beta Range Back-up System																
2.a.(1)	Beta Range Back-up System - Control Box (Pre Mod 6/2014)	Condition and security of mounting. Clean as required. (Card 32–10)									X						X
2.a.(2)	Beta Range Back-up System - Control Box (Pre Mod 6/2014)	Hidden function check of relays K1 and K2. (Card FUN–G14)									X						X
2.b.(1)	Beta Range Back-up System - Limit Switches and Mechanism	Condition and security; wiring for condition and connectors for security. Clean as required. (Card 09–11)				X	X	X	X	X	X	X	X	X	X	X	X

SYSTEM AND ITEM		INSPECTION REQUIREMENT	ROUTINE	A	B	C CHECK X 500 HOURS											
						1	2	3	4	5	6	7	8	9	10	11	D or 12
2.b.(2)	Beta Range Back-up System - Limit Switches and Mechanism	Carbon block retaining pin for free movement. Lubricate. (Cards 36–13, 37–13)		X													
2.c.	Beta Range Back-up System - Beta System	Operational test on engine run-up. (Card FUN–C5b)				X	X	X	X	X	X	X	X	X	X	X	X
3.(1)	Overspeed Governor **Airworthiness Directive F.A.A. 70-16-01**	Condition, security and leakage. **Note Refer to A.D., if applicable.** (Cards 36–01, 37–01)		X													
3.(2)	Overspeed Governor **Airworthiness Directive F.A.A. 70-16-01**	Bench test at TBO. (Card SP2–G4)					**Every 4500 flight hours**										
4.(1)	Constant Speed Governor	Condition, security and leakage. (Cards 36–01, 37–01)		X													
4.(2)	Constant Speed Governor	Governor speed adjusting lever proper attachment to shaft. **Note Refer to TAB 635/4.** (Cards 44–05e, 45–05e)						X			X			X			X
4.(3)	Constant Speed Governor	Bench test at TBO. (Card SP2–G3)					**Every 3500 flight hours**										
5.(1)	Propeller **Airworthiness Directive F.A.A. 78-18-01 F.A.A. 83-08-01**	Oil leakage. (Card RE–01)	X														

SYSTEM AND ITEM		INSPECTION REQUIREMENT	ROUTINE	A	B	C CHECK X 500 HOURS											
						1	2	3	4	5	6	7	8	9	10	11	D or 12
5.(2)	Propeller **Airworthiness Directive F.A.A. 78-18-01 F.A.A. 83-08-01**	Condition of spinner for dents and security; hub for grease or oil leakage. Propeller attach bolts for condition and security. **Note** **Refer to A.D., if applicable.** (Cards 40–04, 41–04)				X	X	X	X	X	X	X	X	X	X	X	X
5.(3)	Propeller **Airworthiness Directive F.A.A. 78-18-01 F.A.A. 83-08-01**	Remove for overhaul. Install serviceable unit. (Cards SP2–G6)					**Refer to Hartzell Service Letter HC-SL-61-61Y**										
5.a.(1)	Propeller - Blades, Spinner and Hub Parts **Airworthiness Directive F.A.A. 72-08-04 F.A.A. 74-14-01**	Condition, blades for nicks and cracks. Blend nicks out from leading edge. **Note** **Refer to A.D., if applicable.** (Cards 38–01, 39–01)			X												
5.a.(2)	Propeller - Blades, Spinner and Hub Parts	Condition, blades for freedom on hub pilot tubes by rocking slightly using counterweights as levers; grease blade clamps. (Cards 36–14, 37–14)		X													
6.	Tachometer Indicator (Pre Mod 6/2049)	Condition and security of installation. (Card 23–07c)						X			X			X			X
7.	Tachometer Generator	Condition and security of installation. (Cards 36–05, 37–05)		X													

PART 1 BASIC INSPECTION - 61

SYSTEM AND ITEM		INSPECTION REQUIREMENT	ROUTINE	A	B	C CHECK X 500 HOURS											
						1	2	3	4	5	6	7	8	9	10	11	D or 12
8.	Propeller Controls																
8.a.	Propeller Controls - Cables	Condition and security, fraying, corrosion and flattening; connections and fairleads for condition and security. Detailed visual inspection of cable terminals for signs of pits or cracks. (Cards 44–05a, 45–05a)						X			X			X			X
8.b.	Propeller Controls - Pulleys	Condition, freedom of operation and security. (Cards 44–05b, 45–05b)						X			X			X			X
8.c.(1)	Propeller Controls - Linkages	Condition and security. (Cards 42–07, 43–07)						X			X			X			X
8.c.(2)	Propeller Controls - Linkages	Levers, push-rod and reversing linkage for security. Springs for condition and security. Stops for security. (Cards 44–05c, 45–05c)						X			X			X			X
8.d.	Propeller Controls - Speed Control Teleflex Cable to Reverse Valve	Condition, kinks, smooth operation and security. (Cards 44–05d, 45–05d)						X			X			X			X
8.e.	Propeller Controls - Reset Limit Switch	Condition and security; wiring for condition and connectors for security. Clean as required. (Card 11–18)				X	X	X	X	X	X	X	X	X	X	X	X
8.f.	Propeller Controls - Reset Limit Switch (Pre Mod 6/1223)	Condition and security. Clean as required. (Card 18–04)					X		X		X		X		X		X
9.	Propeller Synchronizer System	Operational test on engine run-up. (Card FUN–C5d)				X	X	X	X	X	X	X	X	X	X	X	X

SYSTEM AND ITEM		INSPECTION REQUIREMENT	ROUTINE	A	B	C CHECK X 500 HOURS											
						1	2	3	4	5	6	7	8	9	10	11	D or 12
9.a.	Propeller Synchronizer System - Master Speed Pickup (LH Engine)	Condition and security. (Card 36–02)		X													
9.b.	Propeller Synchronizer System - Slave Speed Pickup (RH Engine)	Condition and security. (Card 37–02)		X													
9.c.	Propeller Synchronizer System - Control Box	Security of mounting. Clean as required. (Card 32–09)									X						X
9.d.	Propeller Synchronizer System - Speed Setting	Condition and security. (Cards 40–07, 41–07)				X	X	X	X	X	X	X	X	X	X	X	X
9.e.	Propeller Synchronizer System - Rod End Trimmer	Condition and security. (Cards 40–07, 41–07)				X	X	X	X	X	X	X	X	X	X	X	X
9.f.	Propeller Synchronizer System - Flexible Shaft	Flexible shaft rod end for security. (Cards 40–07, 41–07)				X	X	X	X	X	X	X	X	X	X	X	X
9.g.	Propeller Synchronizer System - Electrical Wiring and Connections	Condition and security. (Cards 40–07, 41–07)				X	X	X	X	X	X	X	X	X	X	X	X

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