

SYSTEM AND ITEM	INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS												D or 12
					1	2	3	4	5	6	7	8	9	10	11		
Chapter 22 – Auto Flight																	
(Honeywell H14) (King Radio H14)																	
1.(1) Computer	Condition and security. Clean as required. (Card 08–12)				X	X	X	X	X	X	X	X	X	X	X	X	X
1.(2) Computer	Mounting for condition and security. (Card 29–09)									X							X
2. Flight Controller	Condition and security. Clean as required. (Card 09–05)				X	X	X	X	X	X	X	X	X	X	X	X	X
3. Aileron Servo System (Flight Compartment)	Aileron servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable clamp. (Card 09–06)				X	X	X	X	X	X	X	X	X	X	X	X	X
3.a. Aileron Servo System - Aileron Servo	Condition and security of mounting. (Card 09–15)				X	X	X	X	X	X	X	X	X	X	X	X	X
3.a.(1) Aileron Servo System - Aileron Servo	Mounting and brackets for condition and security. (Card SP2–M2)						Every 2400 hours										
3.a.(2) Aileron Servo System - Aileron Servo	Remove servo for bench test and install serviceable unit. (Card CT–F–B1)																

Every 2400 hours

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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
4.	Rudder Servo System (Aft Fuselage)	Rudder servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable clamp. (Card 11-01)				X	X	X	X	X	X	X	X	X	X	X	
4.a.	Rudder Servo System - Rudder Servo	Condition and security of mounting. (Card 11-21)				X	X	X	X	X	X	X	X	X	X	X	
4.a.(1)	Rudder Servo System - Rudder Servo	Mounting brackets for condition and security. (Card SP2-M2)						Every 2400 hours									
4.a.(2)	Rudder Servo System - Rudder Servo	Remove servo for bench test and install serviceable unit. (Cards CT-F-B1)															
5.	Elevator Servo System (Aft Fuselage)	Elevator servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable clamp. (Card 11-02)				X	X	X	X	X	X	X	X	X	X	X	
5.a.	Elevator Servo System - Elevator Servo	Condition and security of mounting. (Card 11-22)				X	X	X	X	X	X	X	X	X	X	X	

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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.a.(1)	Elevator Servo System - Elevator Servo	Mounting brackets for condition and security. (Card SP2-M2)						Every 2400 hours									
5.a.(2)	Elevator Servo System - Elevator Servo	Remove servo for bench test and install serviceable unit. (Card CT-F-B1)						Every 2400 hours									
6.	Disengage Switch	Condition and security. Clean as required. (Card 23-15)							X				X				X
7.	Water Trap Assembly	Condition and security; drain tube for condition and drain holes for obstruction. (Card 11-04)				X	X	X	X	X	X	X	X	X	X	X	X
8.	Solenoid Engage - Air Valve	Security. (Card 32-05)								X							X
9.	Pneumatic Filter	Remove element and install new element. Leak check (Engine running). (Card FUN-C11)				X	X	X	X	X	X	X	X	X	X	X	X
Optional Autopilot Components																	
10.	Altitude Hold Static Line	Condition and security. (Card 08-12)				X	X	X	X	X	X	X	X	X	X	X	X
11.	Heading Selector	Condition and security. Clean as required. (Card 08-12)				X	X	X	X	X	X	X	X	X	X	X	X
12.	VOR Dual Selector Relay	Condition and security. Clean as required. (Card 08-11)				X	X	X	X	X	X	X	X	X	X	X	X

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SYSTEM AND ITEM		INSPECTION REQUIREMENT	ROUTINE	A	B	C CHECK X 500 HOURS												D or 12
						1	2	3	4	5	6	7	8	9	10	11		
13.	Automatic Pitch Trim Servo System (Rear Fuselage)	Pitch trim servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drive for condition and security, freedom of operation. Clamps for security and no evidence of movement on main elevator trim cable clamp. (Card 11-05)				X	X	X	X	X	X	X	X	X	X	X	X	
13.a.	Automatic Pitch Trim Servo System - Pitch Trim Servo	Condition and security of mounting; hood for condition and security. (Card 11-06)				X	X	X	X	X	X	X	X	X	X	X	X	
13.a.(1)	Automatic Pitch Trim Servo System - Pitch Trim Servo	Mounting brackets for condition and security. (Cards 32-18, SP2-M2)						Every 2400 hours										
13.a.(2)	Automatic Pitch Trim Servo System - Pitch Trim Servo	Remove servo for bench test and install serviceable unit. (Card CT-F-B2)						Every 2400 hours										
13.b.(1)	Automatic Pitch Trim Servo System - Differential Pressure Switch	Security. Clean as required. (Card 11-03)				X	X	X	X	X	X	X	X	X	X	X	X	
13.b.(2)	Automatic Pitch Trim Servo System - Differential Pressure Switch	Remove for bench test and install serviceable unit. (Card CT-F-B2)						Every 2400 hours										
14.	Pneumatic Pipes and Connections	Pipes for condition and connections for security. (From solenoid valve to all servo and pitch trim units). (Card 32-05)								X							X	

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SYSTEM AND ITEM	INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS											
					1	2	3	4	5	6	7	8	9	10	11	D or 12
15. Autopilot Electrical Wiring and Connectors	Wiring and connectors for condition and security; bonding for security. Clean as required. (Cards 09–17, 08–19, 11–11)				X	X	X	X	X	X	X	X	X	X	X	X
16.(1) H14 Autopilot System	Operational test. (Power on). (Card FUN–C2)				X	X	X	X	X	X	X	X	X	X	X	X
16.(2) H14 Autopilot System	Functional test. (Power on). (Card FUN–G4)									X						X
Bendix M-4C Autopilot System																
17.(1) Bendix M-4C Autopilot System - Computer	Condition and security. Clean as required. (Card 08–12)				X	X	X	X	X	X	X	X	X	X	X	X
17.(2) Bendix M-4C Autopilot System - Computer	Mounting installation for condition and security. (Card 29–09)									X						X
18. Flight Controller	Condition and security. Clean as required. (Card 09–05)				X	X	X	X	X	X	X	X	X	X	X	X
19. Aileron Servo System (Flight Compartment)	Aileron servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable clamp. (Card 09–06)				X	X	X	X	X	X	X	X	X	X	X	X
19.a.(1) Aileron Servo System - Aileron Servo	Condition and security of mounting. (Card 09–15)				X	X	X	X	X	X	X	X	X	X	X	X

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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
19.a.(2)	Aileron Servo System - Aileron Servo	Mounting brackets for condition and security. (Card 30–11)									X						X
19.a.(3)	Aileron Servo System - Aileron Servo	Remove, clean as required and lubricate. Check motor and clutch brushes for wear; replace as necessary, check clutch torque and adjust, if required, every 500 hours. Install serviceable servo. (Card 09–16)				X	X	X	X	X	X	X	X	X	X	X	X
19.a.(4)	Aileron Servo System - Aileron Servo	Replace primary servo bearings, turn and undercut commutator ring. (Cards CT–E–B1, SP2–I1)							X				X				X
20.	Rudder Servo System (Rear Fuselage)	Rudder servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. Note Refer to A.D. 81-01-06 if applicable. (Card 11–01)				X	X	X	X	X	X	X	X	X	X	X	X
20.a.(1)	Rudder Servo System - Rudder Servo	Condition and security of mounting. (Card 11–21)				X	X	X	X	X	X	X	X	X	X	X	X
20.a.(2)	Rudder Servo System - Rudder Servo	Mounting brackets for condition and security. (Card 32–17)									X						X

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SYSTEM AND ITEM	INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS											
					1	2	3	4	5	6	7	8	9	10	11	D or 12
20.a.(3) Rudder Servo System - Rudder Servo	Remove; clean as required, and lubricate. Check motor and clutch brushes for wear; replace as necessary. Check clutch torque and adjust, if required, every 500 hours. Install serviceable servo. (Card 11-01A)				X	X	X	X	X	X	X	X	X	X	X	X
20.a.(4) Rudder Servo System - Rudder Servo	Replace primary servo bearings, turn and undercut commutator ring. (Cards CT-E-B1, SP2-I1)							X				X				X
21. Elevator Servo System (Rear Fuselage)	Elevator servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 11-02)				X	X	X	X	X	X	X	X	X	X	X	X
21.a.(1) Elevator Servo System - Elevator Servo	Condition and security of mounting. (Card 11-22)				X	X	X	X	X	X	X	X	X	X	X	X
21.a.(2) Elevator Servo System - Elevator Servo	Mounting brackets for condition and security. (Card 32-19)								X							X
21.a.(3) Elevator Servo System - Elevator Servo	Remove; clean as required, and lubricate. Check motor and clutch brushes for wear; replace as necessary. Check clutch torque and adjust, if required, every 500 hours. Install serviceable servo. (Card 11-02A)				X	X	X	X	X	X	X	X	X	X	X	X

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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
21.a.(4) Elevator Servo System - Elevator Servo	Replace primary servo bearings, turn and undercut commutator ring. (Cards CT-E-B1, SP2-I1)							X				X				X
22. Pitch Trim Servo System (Rear Fuselage)	Pitch trim servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main trim cable. (Card 11-05)				X	X	X	X	X	X	X	X	X	X	X	X
23.(1) Pitch Trim Servo	Remove pitch trim servo every 500 hours clean as required and lubricate. Check clutch value and adjust if necessary. Install serviceable unit and check cable retaining clip for condition and security. (Card 11-07)				X	X	X	X	X	X	X	X	X	X	X	X
23.(2) Pitch Trim Servo	Mounting brackets for condition and security. (Card 32-18)									X						X
24. Disengage Switches	Condition and clean as required. (Card 30-07)									X						X
25. Altitude Controller	Condition and security. Pipes and connections for security. Clean as required. (Card 08-12)				X	X	X	X	X	X	X	X	X	X	X	X
26. Slip/Skid Sensor	Condition and security. Clean as required. (Card 08-21)				X	X	X	X	X	X	X	X	X	X	X	X

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SYSTEM AND ITEM	INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS											
					1	2	3	4	5	6	7	8	9	10	11	D or 12
27. Turn and Slip Sensor	Condition and security. Clean as required. (Card 08–12)				X	X	X	X	X	X	X	X	X	X	X	X
28. Heading and Attitude Reference Unit	Condition and security. Clean as required. (Card 08–12)				X	X	X	X	X	X	X	X	X	X	X	X
29. Electrical Wiring and Connectors	Wiring and connectors for condition and security; bonding for security. Clean as required. (Cards 09–17, 08–19, 11–11)				X	X	X	X	X	X	X	X	X	X	X	X
30.(1) Bendix M4C/D Autopilot	Operational test. (Power on). (Card FUN–C2)				X	X	X	X	X	X	X	X	X	X	X	X
30.(2) Bendix M4C/D Autopilot	Functional test. (Power on). (Card FUN–G4)									X						X
Collins AP-106 Autopilot System																
31.(1) Collins AP-106 Autopilot System - Computer	Condition and security. Clean as required. (Card 08–12)				X	X	X	X	X	X	X	X	X	X	X	X
31.(2) Collins AP-106 Autopilot System - Computer	Mounting installation for condition and security. (Card 29–09)									X						X

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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
32.	Aileron Servo System (Flight Compartment)	Aileron servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 09–06)				X	X	X	X	X	X	X	X	X	X	X	
32.a.(1)	Aileron Servo System - Aileron Servo	Condition and security of mounting. (Card 09–15)				X	X	X	X	X	X	X	X	X	X	X	
32.a.(2)	Aileron Servo System - Aileron Servo	Mounting brackets for condition and security. (Card 30–11)								X						X	
32.a.(3)	Aileron Servo System - Aileron Servo	Remove and send servo units to a Collins authorized service center for inspection and test as per Collins SIL2-81 every 1000 flight hours. Install serviceable unit. (Card CT–B–B1)					X		X		X		X		X	X	
32.b.	Aileron Servo System - Aileron Servo Capstan	Perform on aircraft slip clutch inspection test as per Collins SIL1-94 every 1000 flight hours. (Card 16–17)					X		X		X		X		X	X	
33.	Elevator Servo System (Rear Fuselage)	Elevator servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 11–02)				X	X	X	X	X	X	X	X	X	X	X	

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SYSTEM AND ITEM	INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS											
					1	2	3	4	5	6	7	8	9	10	11	D or 12
33.a.(1) Elevator Servo System - Elevator Servo	Condition and security of mounting. (Card 11–22)				X	X	X	X	X	X	X	X	X	X	X	X
33.a.(2) Elevator Servo System - Elevator Servo	Mounting brackets for condition and security. (Card 32–19)									X						X
33.a.(3) Elevator Servo System - Elevator Servo	Remove and send servo units to a Collins authorized service center for inspection and test as per Collins SIL2-81 every 1000 flight hours. Install serviceable unit. (Card CT–B–B1)					X		X		X		X		X		X
33.b. Elevator Servo System - Elevator Servo Capstan	Perform on aircraft slip clutch inspection test as per Collins SIL1-94 every 1000 flight hours. (Card 18–20)					X		X		X		X		X		X
34. Rudder Servo System (Rear Fuselage)	Rudder servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 11–01)				X	X	X	X	X	X	X	X	X	X	X	X
34.a.(1) Rudder Servo System - Rudder Servo	Condition and security of mounting. (Card 11–21)				X	X	X	X	X	X	X	X	X	X	X	X
34.a.(2) Rudder Servo System - Rudder Servo	Mounting brackets for condition and security. (Card 32–17)									X						X

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SYSTEM AND ITEM	INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS											
					1	2	3	4	5	6	7	8	9	10	11	D or 12
34.a.(3) Rudder Servo System - Rudder Servo	Remove and send servo units to a Collins authorized service center for inspection and test as per Collins SIL2-81 every 1000 flight hours. Install serviceable unit. (Card CT-B-B1)					X		X		X		X		X		X
34.b. Rudder Servo System - Rudder Servo Capstan	Perform on aircraft slip clutch inspection test as per Collins SIL1-94 every 1000 flight hours. (Card 18-20)					X		X		X		X		X		X
35. Pitch Trim Servo System (Rear Fuselage)	Pitch trim servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security. Pulleys and cable drums for condition and security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 11-05)				X	X	X	X	X	X	X	X	X	X	X	X
35.a.(1) Pitch Trim Servo System Pitch Trim Servo	Condition and security of mounting. (Card 11-06)				X	X	X	X	X	X	X	X	X	X	X	X
35.a.(2) Pitch Trim Servo System Pitch Trim Servo	Mounting brackets for condition and security. (Card 32-18)								X							X
35.a.(3) Pitch Trim Servo System Pitch Trim Servo	Perform on aircraft clutch torque inspection and adjust if necessary. (Card 18-21)					X		X		X		X		X		X
36. Altitude Controller	Condition and security. Pipes and connections for security. Clean as required. (Card 08-12)				X	X	X	X	X	X	X	X	X	X	X	X

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SYSTEM AND ITEM	INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS											
					1	2	3	4	5	6	7	8	9	10	11	D or 12
37. Pitch/Turn Control	Condition and security. Clean as required. (Card 08–12)				X	X	X	X	X	X	X	X	X	X	X	X
38. Turn and Slip Sensor	Condition and security. Clean as required. (Card 08–12)				X	X	X	X	X	X	X	X	X	X	X	X
39.(1) Gain Programmer Airworthiness Directive F.A.A. 75-12-10	Condition and security; cover cooling holes free from obstruction. Note Refer to A.D., if applicable. (Card 08–20)				X	X	X	X	X	X	X	X	X	X	X	X
39.(2) Gain Programmer	Mounting tray for condition and security. (Card 29–15)									X						X
40.(1) I.A.S. Sensor Airworthiness Directive F.A.A. 75-12-10	Condition and security; pipes and connections for security. Note Refer to A.D., if applicable. (Card 08–20)				X	X	X	X	X	X	X	X	X	X	X	X
40.(2) I.A.S. Sensor	Mounting brackets for condition and security. (Card 29–15)									X						X
41. Autopilot Disengage Switch	Security and clean as required. (Card SP2–M1)						Every 400 hours									
Optional Autopilot Components																
42. Flight Director Indicator	Condition and security; electrical connection for security. (Card 16–03h)					X		X		X		X		X		X

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SYSTEM AND ITEM		INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS											
						1	2	3	4	5	6	7	8	9	10	11	D or 12
43.	Radio Magnetic Indicator Airworthiness Directive F.A.A. 76-07-09	Condition and security, connector for security. Clean as required. Note Refer to Service Bulletin No. 6/349, and A.D., if applicable. (Card 16-03g)					X		X		X		X		X		X
43.a.	Directional Indicator	Condition and security; electrical connections for security. Clean as required. (Card 16-03b)					X		X		X		X		X		X
43.b.	Slaving Indicator	Condition and security. Clean as required. (Card 16-03i)					X		X		X		X		X		X
44.	Electrical Wiring and Connectors	Wiring and connectors for condition and security; bonding for condition. Clean as required. (Cards 09-17, 08-19, 11-11)				X	X	X	X	X	X	X	X	X	X	X	X
45.(1)	Collins AP-106 Autopilot System	Operational Test. (Power on). (Card FUN-C2)				X	X	X	X	X	X	X	X	X	X	X	X
45.(2)	Collins AP-106 Autopilot System	Functional Test. (Power on). (Card FUN-G4)								X							X
46.	Flight Controller	Condition and security. Clean as required. (Card 09-05)				X	X	X	X	X	X	X	X	X	X	X	X
AFCS (Mod 6/2303 & SOO 6221)																	
47.	Flight Director (Mod 6/2303)	Operational test. (Power on). (Card FUN-C2)				X	X	X	X	X	X	X	X	X	X	X	X

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						1	2	3	4	5	6	7	8	9	10	11	D or 12
48.	AFCS - Pilot and Co-Pilot, Go Around (G/A) and Touch Control Steering (TCS) Switch (Mod 6/2303)	Security and clean as required. (Card 09-19a)				X	X	X	X	X	X	X	X	X	X	X	
49.	AFCS - Pilot and Co-Pilot Disconnect (AP DISC) and Electric Manual Pitch Trim Switch (Mod SOO 6221)	Security and clean as required. (Card 09-19b)				X	X	X	X	X	X	X	X	X	X	X	
50.a.	AFCS - Function Test (Mod SOO 6221)	Function Test. (Card 09-19c)				X	X	X	X	X	X	X	X	X	X	X	
50.b.	AFCS - Operational (Routine) Test (Mod SOO 6221)	Operational test. (Power On). (Card RA-OPR-07)	X														
51.	SM3000 Aileron Servo System - Aileron Servo	Aileron servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 09-06)				X	X	X	X	X	X	X	X	X	X	X	
51.a.	SM3000 Aileron Servo System - Aileron Servo	Condition and security of mounting. (Card 09-15)				X	X	X	X	X	X	X	X	X	X	X	
51.b.	SM3000 Aileron Servo System - Electrical Wiring and Connections	Wiring and connectors for condition and security; bonding for security. Clean as required. (Card 09-17)				X	X	X	X	X	X	X	X	X	X	X	

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					1	2	3	4	5	6	7	8	9	10	11		
51.c. SM3000 Aileron Servo System - Aileron Servo	Check bridle cable tensions and verify no slippage of clamps has occurred. (Card 16–23)					X		X		X		X		X		X	
51.d. SM3000 Aileron Servo System - Aileron Servo	Inspect grounding of unit wiring bundle shield braid to airframe structure (<7.5 milliohms). Note HIRF/IEL/DEL inspection. Refer to inspection requirements, Page 7, Para 12 for details. (Card 16–22a)					X		X		X		X		X		X	
51.e. SM3000 Aileron Servo System - Aileron Servo	Inspect bonding of the mating surfaces between the servo mount and airframe structure (<2.5 milliohms). Note HIRF/IEL/DEL inspection. Refer to inspection requirements, Page 7, Para 12 for details. (Card 16–22b)					X		X		X		X		X		X	
51.f. SM3000 Aileron Servo System - Aileron Servo	Mounting brackets for condition and security. (Card 30–11)									X						X	
52. SM3000 Elevator Servo System - Elevator Servo	Elevator servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 11–02)				X	X	X	X	X	X	X	X	X	X	X	X	

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SYSTEM AND ITEM	INSPECTION REQUIREMENT	ROUTINE	A	B	C CHECK X 500 HOURS												D or 12
					1	2	3	4	5	6	7	8	9	10	11		
52.a. SM3000 Elevator Servo System - Elevator Servo	Condition and security of mounting. (Card 11–22)				X	X	X	X	X	X	X	X	X	X	X	X	
52.b. SM3000 Elevator Servo System - Electrical Wiring and Connections	Wiring and connectors for condition and security; bonding for security. Clean as required. (Card 11–11)				X	X	X	X	X	X	X	X	X	X	X	X	
52.c. SM3000 Elevator Servo System - Elevator Servo	Check bridle cable tensions and verify no slippage of clamps has occurred. (Card 18–33)					X		X		X		X		X		X	
52.d. SM3000 Elevator Servo System - Elevator Servo	Inspect grounding of unit wiring bundle shield braid to airframe structure (<7.5 milliohms). Note HIRF/IEL/DEL inspection. Refer to inspection requirements, Page 7, Para 12 for details. (Card 18–34a)					X		X		X		X		X		X	
52.e. SM3000 Elevator Servo System - Elevator Servo	Inspect bonding of the mating surfaces between the servo mount and the airframe structure (<2.5 milliohms). Note HIRF/IEL/DEL inspection. Refer to inspection requirements, Page 7, Para 12 for details. (Card 18–34b)					X		X		X		X		X		X	
52.f. SM3000 Elevator Servo System - Elevator Servo	Mounting brackets for condition and security. (Card 32–19)									X						X	

PART 1 BASIC INSPECTION - 22

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
53.	SM3000 Rudder Servo System - Rudder Servo	Rudder servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 11-01)				X	X	X	X	X	X	X	X	X	X	X	X
53.a.	SM3000 Rudder Servo System - Rudder Servo	Condition and security of mounting. (Card 11-21)				X	X	X	X	X	X	X	X	X	X	X	X
53.b.	SM3000 Rudder Servo System - Electrical Wiring and Connections	Wiring and connectors for condition and security; bonding for security. Clean as required. (Card 11-11)				X	X	X	X	X	X	X	X	X	X	X	X
53.c.	SM3000 Rudder Servo System - Rudder Servo	Check bridle cable tensions and verify no slippage of clamps has occurred. (Card 18-35)					X		X		X		X		X		X
53.d	SM3000 Rudder Servo System - Rudder Servo	Inspect grounding of unit wiring bundle shield braid to airframe structure (<7.5 milliohms). Note HIRF/IEL/DEL inspection. Refer to inspection requirements, Page 7, Para 12 for details. (Card 18-36a)					X		X		X		X		X		X

PART 1 BASIC INSPECTION - 22

SYSTEM AND ITEM	INSPECTION REQUIREMENT	R O U T I N E	A	B	C CHECK X 500 HOURS												D o r 12
					1	2	3	4	5	6	7	8	9	10	11		
53.e. SM3000 Rudder Servo System - Rudder Servo	Inspect bonding of the mating surfaces between the servo mount and airframe structure (<2.5 milliohms). Note HIRF/IEL/DEL inspection. Refer to inspection requirements, Page 7, Para 12 for details. (Cards 18–36b)					X		X		X		X		X		X	
53.f. SM3000 Rudder Servo System - Rudder Servo	Mounting brackets for condition and security. (Card 32–17)									X						X	
54. KS 272A Pitch Trim Servo System - Pitch Trim Servo	Pitch Trim servo cable for fraying, kinks, flattening, proper attachment and security; turnbuckles for security, freedom of operation. Clamps for security and no evidence of movement on main flight control cable. (Card 11–05)				X	X	X	X	X	X	X	X	X	X	X	X	
54.a. KS 272A Pitch Trim Servo System - Pitch Trim Servo	Condition and security of mounting. (Card 11–06)				X	X	X	X	X	X	X	X	X	X	X	X	
54.b. KS 272A Pitch Trim Servo System - Electrical Wiring and Connections	Wiring and connectors for condition and security; bonding for security. Clean as required. (Card 11–11)				X	X	X	X	X	X	X	X	X	X	X	X	
54.c. KS 272A Pitch Trim Servo System	Operational test. (Power on). (Card FUN–C15)				X	X	X	X	X	X	X	X	X	X	X	X	
54.d. KS 272A Pitch Trim Servo System - Pitch Trim Switch	Security and clean as required. (Card 11–24)				X	X	X	X	X	X	X	X	X	X	X	X	

PART 1 BASIC INSPECTION - 22

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
54.e. KS 272A Pitch Trim Servo System - Pitch Trim Capstan	Bench Test. (Card CT-B-B2)					X		X		X		X		X		X
54.f. KS 272A Pitch Trim Servo System - Pitch Trim Servo	Inspect grounding of unit wiring bundle shield braid to airframe structure (<20 milliohms). Note HIRF/IEL/DEL inspection. Refer to inspection requirements, Page 7, Para 12 for details. (Card 18–37a)					X		X		X		X		X		X
54.g. KS 272A Pitch Trim Servo System - Pitch Trim Servo	Inspect bonding of the mating surfaces between the servo mount and airframe structure (<2.5 milliohms). Note HIRF/IEL/DEL inspection. Refer to inspection requirements, Page 7, Para 12 for details. (Card 18–37b)					X		X		X		X		X		X
54.h. KS 272A Pitch Trim Servo System - Pitch Trim Servo	Check bridle cable tensions and verify no slippage of clamps has occurred. (Card 18–38)					X		X		X		X		X		X
54.i. KS 272A Pitch Trim Servo System - Pitch Trim Servo	Mounting brackets for condition and security. (Card 32–18)									X						X

PART 1 BASIC INSPECTION - 22