Instruments and Automatic Pilots

AD/INST/42

KSA 470 Autopilot Servo Actuator

7/98

Applicability:

Allied Signal Bendix/King Model KSA-470 autopilot servo actuators, part numbers 065-0076-10 through 065-0076-15, serial numbers 0001 through 3081 inclusive.

Note: The actuators are known to be fitted to, but not limited to the aircraft listed below:

Aircraft	Flight Director/Auto pilot System	Part Number	Location
Raytheon (Beech) 400 Series	KFC 400	065-0076-11	Yaw Axis
		065-0076-15	Roll Axis
Raytheon (Beech) 200 Series	KFC 400	065-0076-11	Yaw Axis
Raytheon (Beech) 300 Series	KFC 400	065-0076-15	Yaw Axis
Dassault Falcon 20	KFC 400	065-0076-15	Pitch Axis
		065-0076-15	Roll Axis
Fairchild C26A/C26B	KFC 400	065-0076-11	Yaw Axis
Fairchild SA227- AC/AT/BC/CC/DC	KFC 400	065-0076-15	Roll Axis
Learjet 31A	KFC 3100	065-0076-12	Pitch Axis
		065-0076-14	Yaw Axis
		065-0076-15	Roll Axis
Lockheed (Grumman) S-2 Tracker	KFC 325	065-0076-10	Special
Piper 400LS and PA-42-1000	KFC 400	065-0076-15	Yaw Axis

Requirement:

- 1. Replace the autopilot servo actuator with an actuator that incorporates Mod 3, in accordance with procedures in the applicable maintenance manual.
- 2. An actuator, listed in the Applicability Statement, that has not had Mod 3 incorporated may not be installed on any aeroplane.

Note: FAA AD 98-08-20 Amdt 39-10469 refers.

Compliance:

- 1. Within the next 100 hours time in service after the effective date of this directive.
- 2. As of the effective date of this directive.

(Civil Aviation Regulations 1998), PART 39 - 107

COMMONWEALTH OF AUSTRALIA CIVIL AVIATION SAFETY AUTHORITY SCHEDULE OF AIRWORTHINESS DIRECTIVES

This airworthiness directive becomes effective on 18 June 1998.

Background:

This directive requires the replacement of the autopilot servo actuator with a modified servo actuator. This is a result of the FAA receiving two reports of the affected actuators containing loose roll pins within the servo housing. Loose pins could fall out and become lodged in the output shaft, preventing this mechanism from disengaging.

The actions mandated by this directive are intended to prevent such an occurrence, which could result in an increased effort by the pilot to control the aircraft and possible loss of control of the affected flight control axis.