



**Cheyenne 400 LS
Autopilot Checklist**

General

The autopilot of the Cheyenne 400 LS is a servo controlled system that is intended for use during climb, cruise and descent phases of flight. It is not intended for use during takeoff or landing.

Refer to the POH for a complete illustration of the operating controls and features.

Checklists

Preflight

Follow the Normal Procedures preflight checklist. Once the inverter/avionics master switches have been engaged, and power to the avionics have been established, follow the procedure below:

- Autopilot Master Power (PWR)..... OFF
- Flight Director (FLT DIR)..... OFF
- Cruise speed (SPD)..... OFF
- HDG, NAV..... OFF
- Altitude hold (ALT)..... OFF
- Wing Leveler (W/L)..... OFF
- Yaw Damper (Y/D)..... OFF
- GPS Drives NAV (GPS)..... OFF
- Altitude select control..... SET
- Vertical Speed climb rate (VS indicator)..... SET

CAUTION

The autopilot and particularly, the speed (SPD) controls must not be engaged during ground operations, otherwise damage to the servo system may result.

Prior to takeoff

- Autopilot Master Power (PWR)..... ON
- Flight Director (FLT DIR)..... ON
- Wing Leveler (W/L)..... CHECK OFF
- Autopilot/Yaw Damper..... CHECK OFF
- Altitude select (main panel)..... SET CRUISE ALT
- Altitude hold servo (ALT)..... OFF
- Cruise speed (SPD)..... OFF
- HDG, NAV..... OFF
- Vertical speed (climb) rate (VSI)..... SET
- Heading bug (HSI)..... SET COURSE



**Cheyenne 400 LS
Autopilot Checklist**

Takeoff

- Autopilot Master Power (PWR)..... CHECK ON
- Flight Director (FLT DIR)..... CHECK ON
- Wing Leveler (W/L)..... CHECK OFF
- Autopilot/Yaw Damper..... CHECK OFF
- Altitude select (main panel)..... CHECK SET
- Altitude hold servo (ALT)..... CHECK OFF
- Cruise speed (SPD)..... CHECK OFF
- HDG, NAV..... CHECK OFF

Climb

After rate of climb has been established:

- Autopilot Master Power (PWR)..... CHECK ON
- Flight Director (FLT DIR)..... CHECK ON
- Wing Leveler (W/L)..... ON IF DESIRED
(free of HDG/NAV control)
- Autopilot/Yaw Damper..... AS DESIRED
- Altitude select (main panel)..... CHECK SET
- Altitude hold servo (ALT)..... ON IF DESIRED
- Cruise speed (SPD)..... CHECK OFF
- HDG (if NAV not selected)..... ON IF DESIRED
- GPS drives NAV (if NAV selected)..... ON IF DESIRED

Note: GPS control is only possible in NAV mode. HDG mode will override the GPS directions and will follow the heading bug.

Cruise

After cruise speed has been established:

- Autopilot Master Power (PWR)..... CHECK ON
- Flight Director (FLT DIR)..... CHECK ON
- Wing Leveler (W/L)..... ON IF DESIRED
(free of HDG/NAV control)
- Autopilot/Yaw Damper..... AS DESIRED
- Altitude..... VERIFY WITH
FLIGHT PLAN
- Altitude hold servo (ALT)..... ON IF DESIRED
- Speed hold bug (ASI)..... CHECK SET
- Cruise speed (SPD)..... ON IF DESIRED

Descent

- Autopilot Master Power (PWR)..... CHECK ON
- Flight Director (FLT DIR)..... CHECK ON



**Cheyenne 400 LS
Autopilot Checklist**

Wing Leveler (W/L).....	OFF
Autopilot/Yaw Damper.....	AS DESIRED
Altitude.....	SET TARGET ALTITUDE
Altitude hold servo (ALT).....	ON IF DESIRED
Vertical speed bug (VSI).....	CHECK SET
Cruise speed (SPD).....	OFF

Approach and Landing

Below 5,000 ft:

Autopilot Master Power (PWR).....	CHECK ON
Flight Director (FLT DIR).....	CHECK ON
Autopilot/Yaw Damper.....	OFF
Wing Leveler (W/L).....	OFF
Altitude hold servo (ALT).....	OFF
Cruise speed (SPD).....	OFF

WARNING

Approach and landing must be accomplished with autopilot servos disengaged and speed control OFF. The system is not certified for automated approach procedures!

Securing Aircraft

Autopilot Master Power (PWR).....	OFF
Flight Director (FLT DIR).....	OFF
Cruise speed (SPD).....	OFF
HDG, NAV.....	OFF
Altitude hold (ALT).....	OFF
Wing Leveler (W/L).....	OFF
Yaw Damper (Y/D).....	OFF
GPS Drives NAV (GPS).....	OFF
Altitude select control.....	SET
Vertical Speed climb rate (VS indicator).....	SET