# AUTOPILOT CHECKLIST (STEC-55X with Trim Control)

1. Trim Master Switch – OFF.
2. Autopilot Master Switch – ON
   1. Annunciations – ALL ON for 10 seconds then extinguish.
   2. RDY annunciation alone appears – CHECK within 3 minutes.
3. Control Wheel – CHECK freedom of movement about ROLL axis.
4. Heading Bug – SET under lubber line.
5. HDG Mode – SELECT, CHECK HDG annunciation alone appears.
6. Control Wheel – CHECK reduced freedom of movement about roll axis. CHECK Roll Servo can be overridden.
7. Heading Bug – CHECK L&R (control wheel turns to the left and the right).
8. Heading Bug – SET under lubber line (control wheel stops).
9. Control Wheel – CHECK freedom of movement about PITCH axis.
10. ALT Mode – SELECT, CHECK ALT annunciation appears with HDG.
11. Control Wheel – CHECK reduced freedom of movement about pitch axis. CHECK Pitch Servo can be overridden.
12. CWS Switch – PRESS/HOLD. CHECK CWS, VS and +0 (or +/-1) annunciations only appear.
13. Control Wheel – CHECK increased freedom of movement about **roll** axis (Roll Servo is disengaged).
14. Control Wheel – CHECK increased freedom of movement about **pitch** axis (Pitch Servo is disengaged).
15. CWS Switch – RELEASE.
16. Control Wheel – CHECK reduced freedom of movement about **roll** axis.
17. Control Wheel – CHECK reduced freedom of movement about **pitch** axis.
18. AP Modifier Knob – ROTATE CW until +5 is commanded. CHECK control wheel moves in aft direction.
19. AP Modifier Knob – ROTATE CCW until -5 is commanded. CHECK control wheel moves in forward direction.
20. AP Modifier Knob – ROTATE CW until +0 is commanded. CHECK control wheel stops.

Note: If it is **not** possible to select a local VOR frequency on Navigation Receiver, then proceed to step 26. Otherwise proceed to step 21.

1. Navigation Radio – Tune to local VOR frequency.
2. NAV Mode – SELECT, CHECK NAV, VS and +0 annunciations only appear.
3. OBS Knob – TURN until CDI needle deflects 2 dots **right** of center. CHECK control wheel turns to the right.
4. OBS Knob – TURN until CDI needle deflects 2 dots **left** of center. CHECK control wheel turns to the left.
5. OBS Knob – TURN until CDI needle is centered. CHECK control wheel stops.
6. HDG Mode – SELECT, CHECK HDG, VS and +0 annunciations only appear.
7. Control Wheel – MOVE as far FORWARD as possible.
   1. CHECK – After 3 seconds TRIM ▲annunciation appears.
   2. CHECK – After 7 seconds TRIM ▲annunciation flashes.
8. Control Wheel – MOVE as far AFT as possible.
   1. CHECK – After 3 seconds TRIM ▼ annunciation appears.
   2. CHECK – After 7 seconds TRIM ▼ annunciation flashes.
9. Control Wheel – MOVE forward until TRIM ▼ extinguishes. CHECK HDG, VS, and +0 annunciations only appear.
10. Trim Master Switch – ON.
11. Control Wheel – MOVE as far FORWARD as possible.
    1. CHECK – After 3 seconds TRIM ▲annunciation appears and elevator trim wheel begins to run nose up with increasing speed.
    2. CHECK – After 7 seconds TRIM ▲annunciation flashes.
12. Control Wheel – MOVE as far AFT as possible.
    1. CHECK – After 3 seconds TRIM ▼ annunciation appears and elevator trim wheel begins to run nose down with increasing speed.
    2. CHECK – After 7 seconds TRIM ▼ annunciation flashes.
13. Control Wheel – MOVE forward until TRIM ▼ extinguishes. CHECK HDG, VS, and +0 annunciations only appear.
14. Manual Electric Trim Switch – PRESS either forward or aft on BOTH segments.
    1. CHECK – RDY annunciation flashes and audible alert sounds a periodic tone while all other annunciations are extinguished.
    2. CHECK – After 5 seconds, RDY annunciation stops flashing but remains, and audible alert is squelched.
15. Manual Electric Trim Switch – PRESS ONE segment forward or aft. CHECK elevator trim wheel does not begin to run.
16. Manual Electric Trim Switch – PRESS/HOLD BOTH segments FORWARD. CHECK elevator trim wheel runs nose down at full speed and TRIM annunciation appears flashing.
17. AP DISC Switch – PRESS/HOLD and CHECK elevator trim wheel stops.
18. AP DISC Switch – RELEASE and CHECK elevator trim wheel resumes running nose down at full speed.
19. Manual Electric Trim Switch – RELEASE and CHECK elevator trim wheel stops and TRIM annunciation is extinguished.
20. Manual Electric Trim Switch – PRESS/HOLD BOTH segments AFT. CHECK elevator trim wheel runs nose up at full speed and TRIM annunciation appears flashing.
21. AP DISC Switch – PRESS/HOLD and CHECK elevator trim wheel stops.
22. AP DISC Switch – RELEASE and CHECK elevator trim wheel resumes running nose up at full speed.
23. Manual Electric Trim Switch – RELEASE and CHECK elevator trim wheel stops and TRIM annunciation is extinguished.
24. Elevator Trim – TAKEOFF.