



MEMORANDUM FOR RECORD

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Eastern Region Aviation

March 17, 2021

Subject: ERA21LA003
Who: Catherine Herau – Daher Aircraft

In an email conversation, Ms. Herau discussed the following:

From a flight envelope point of view, assuming that this TBM850 is not featured with ESP, AP (autopilot) engagement limits are:

- *+/-45 deg for roll angle*
- *[-15,+25] deg for pitch*

AP cannot be engaged outside this envelope and if the engagement limits are exceeded while AP is engaged, then the AP would disconnect.

In an email conversation dated June 4, 2021, she mentioned the following:

Rate of descent in EDM mode

Extract of Garmin Pilot's guide :

Throttles should be reduced to idle and speed brakes extended to achieve a maximum rate of decent. EDM is annunciated as the AFCS Status Annunciation and the following AFCS modes are engaged: FLC Mode with a target speed of 265 KIAS or Mach equivalent, Heading Mode with a course 90° left of current heading, and a target altitude of 15,000 feet MSL.

The rate of descent in EDM mode depends on power lever position, weather conditions, aircraft loading.....and can go up to $\simeq 4000\text{ft/mn}$ (from flight test measurements).

Note that emergency descent with maximum rate descent is in POH §3.6 Emergency descents