

## GROUP HANDOUT — Night-IFR Automation-Failure Pre-Brief

*Small-Group Drill — Night IFR, Autopilot Failure at 400 ft*

*(C182 / GFC 500 — KORL → KTIX — Night IFR — OVC 012 — 3 SM — winds 090@12 — AP fails at 400 ft AGL during climb)*

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### Your Task (6 minutes total)

In your group, build and speak out loud a **complete pre-brief** you would give yourself before brake release.

Your brief **must** include:

1. **Failure cue & disconnect rule**
  2. **Exact callout phrase** — *No capture — Autopilot disconnect — My airplane — Pitch — Power — Trim.*
  3. **Pre-briefed pitch & power numbers**
  4. **Trim target**
  5. **Navigation plan** after stabilization
  6. **When to communicate with ATC**
  7. **Success criteria** in first 10 seconds
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### Reference — Cue Hierarchy

1. Mode annunciator: Armed = white (intent), Active = green (control)
2. Vertical trend: Converging toward target
3. Aural alert: Capture tone

**If mismatch persists 3–5 seconds, say:**

*No capture — Autopilot disconnect — My airplane — Pitch — Power — Trim.*

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### Success Criteria (10 sec after disconnect)

- Trend arrested
  - Heading within  $\pm 10^\circ$
  - No chasing needles
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### Output

- One group member delivers your spoken brief to the room.
  - Optional: jot your flow on the card below.
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### Visual Reinforcement

Cue → Callout → Actions → Stabilize

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### Group Card

Failure Cue: \_\_\_\_\_

Callout Phrase: \_\_\_\_\_

Pitch / Power: \_\_\_\_\_

Trim: \_\_\_\_\_

Nav: \_\_\_\_\_

Comms: \_\_\_\_\_

Success Criteria: \_\_\_\_\_

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