retract-endorse

Retractable Gear notes

- Hydraulic system to extend and retract — engine or electric driven
- Lights
  - 3x green -> gear extended
  - yellow -> gear in transit
- Squat switch prevents gear retraction when wheels on ground
- Pre-flight
  - Gear switch is down before turning on master
  - Master on
  - 3x green indicated
  - Gear wheel well clear of debris
  - Gear shocks inflated
  - Locking mechanism condition
  - Squat switch condition
- After take-off
  - At end of runway and +RoC
    * Tap brakes
    * Retract gear
    * Re-trim
- Emergency gear extension
  - releases hydraulic pressure
  - check circuit breakers (pulled for training purpose)
  - check panel lights
  - check gear indicator bulbs
  - airspeed < 86KIAS
  - move gear selector to down position
  - hold emergency gear lever in downward position
  - yaw aircraft side-to-side
  - if nose wheel failed to extend, slow to safest speed and move gear selector to down position
- Micro-switch warnings
  - Warning horn and a red warning light
  - MAP 14" or below and gear selector in up position
  - Flaps extended > 10 degrees without landing gear down and locked

- – Wheels on ground with gear selector in up position
- Workflows
  - – BUMFISH and PUFF
  - – When operating gear selector, keep hand on switch until 3x green
  - – Re-trim for pitch changes
  - – Gear down abeam threshold and before base
- Gear-up landing
  - – Gear selector in up position
  - – Pull circuit breaker
  - – PAN PAN
  - – Request visual inspection from ATC
  - – Exhaust as much fuel as possible
  - – Crossing threshold
    * mixture off
    * ignition off
    * master off
  - – Unlatch prior to landing
  - – Flare as much as possible
- After landing
  - – check gear selector in down position

This document

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