

# FLIGHT CHECKLIST FOR PHANTOM

**PREFACE** – Firmware on all devices/aircraft are up to date with the most stable, usable version.

## **PREFLIGHT – INSIDE/INITIAL/PRE-POWER-UP**

- ☐ Structural Integrity Verification – AIRCRAFT (Can be conducted post flight)
  - Check for cracks
  - Check for loose components (screws, Camera UV/ND filter, labels, covers, skins)
  - Install/verify propellers are on and tightened
  - Verify landing gear/legs are sound and clean
  - Verify light covers are installed and not cracked/broken
- ☐ Electrical/Electronic Verification – AIRCRAFT (Can be conducted post flight)
  - Verify VPS sensors are not damaged or blocked
  - Verify gimbal cables are installed
  - Verify gimbal cables are not frayed, cracked or broken
  - Check each motor to ensure smooth rotation
  - Visually check coils in EACH motor using flashlight to ensure no broken, burned or misshapen coils
  - Verify wiring in aircraft legs is not frayed, broken or damaged
  - Use low pressure air (canned air for computer devices) blow out motors and battery compartment
- ☐ Structural Integrity Verification – BATTERY(IES) (Can be conducted post flight)
  - Check for cracks
  - Check for loose components
  - Ensure terminals are not bent, burnt or otherwise damage
- ☐ Electrical/Electronic Verification – BATTERY(IES) (Can be conducted post flight)
  - Ensure batteries are fully charged
  - Ensure no shorts exist across terminals
  - Use low pressure air (canned air for computer devices) blow out terminals
- ☐ Structural Integrity Verification – RC/FPV Device (Phone/Tablet) (Can be conducted post flight)
  - Check for cracks
  - Check for loose components
  - Verify antennae are tight and not damaged
  - Ensure connection cable between RC and FPV device is not frayed, broken or damaged
- ☐ Electrical/Electronic Verification – REMOTE CONTROL/FPV Device (Phone/Tablet)
  - Ensure RC and device are adequately charged
- ☐ Sight Conditions – WEATHER AND PERMISSIONS
  - Verify on sight conditions support flight
    - [www.aviationweather.gov](http://www.aviationweather.gov)
    - [www.weather.com](http://www.weather.com)
    - [www.accuweather.com](http://www.accuweather.com)
  - Verify on sight condition air space classification and any notices
    - [NOTAMS](#)
    - Permission
    - Unlock if required online

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## PREFLIGHT – ON SITE/INTERMEDIATE/PRE-POWER-UP

- ☐ Sight Conditions - VISUAL
  - Weather – Visual Assessment
    - Wind
    - Rain
    - Cloudiness
  - Crowd density
  - Interference
    - Physical – Trees, Power lines
    - Magnetic/Radio
      - Cell Towers
      - WIFI Density
      - Radar (on boats/ships)
  - Unlock if required using DJI Go GEO
- ☐ Launch Location
  - > 20 meters from water, highway, detrimental location
  - Shielded/away from metal or other magnetic interference

# FLIGHT CHECKLIST FOR PHANTOM

## PREFLIGHT – ON SITE/INTERMEDIATE/AT POWER-UP

- ☐ Power Up RC
  - Ensure lights and sounds are normal
  - View **RED** LED on RC
  - Ensure FUNCTION switch set to “P”
- ☐ Power up aircraft
  - Install battery (if not already completed)
  - Power aircraft
    - View 4 **GREEN LEDs** on battery
    - View **RED** LED button on battery
    - Listen for 4 distinct beeps from AIRCRAFT
    - View camera/gimbal rotate through motions and steady up facing forward
    - View AIRCRAFT safety LEDs blinking
  - RC connection verification
    - Verify **GREEN LED** on RC
- ☐ Power FPV device/Start control application
  - Open DJI GO
    - Verify SAFE TO FLY-GPS
      - Note number of GPS/GLONASS satellites
    - Verify RADIO SIGNAL is adequate – No Interference
    - Verify HD and RC signal 4 bars
    - Verify battery > 95-100% and battery voltage > 4.10volts
    - Verify compass values. Calibrate compass if required
      - Mod Values should be between 1000-2000, 1450-1550 ideally
      - Ensure no metal objects in vicinity
    - Select P-GPS on FPV device
      - Verify RTH
        - Set height is higher than surroundings
      - Loss RC signal
        - Over open water – Hover
        - Overland – RTH

# FLIGHT CHECKLIST FOR PHANTOM

## **PREFLIGHT – ON SITE FINAL/POWER UP**

- ☐ Perform CSC, start motors
  - Verify FUNCTION switch set to “P”
  - Verify FPV device/DJI Go states “Takeoff”
  - Ensure home point recorded/updated
  - Verify motors are at “low idle”
  - Check battery voltage > 4.10volts
  - Verify compass values again
    - Mod Values should be between 1000-2000, 1450-1550 ideally
    - Ensure no metal objects in vicinity

## **TAKEOFF – ON SITE/FINAL/TAKEOFF**

- ☐ Raise altitude to above head height 6-8ft.
  - Verify FUNCTION switch set to “P”
  - Verify compass values again
    - Mod values should be between 1000-2000, 1450-1550 ideally
  - Ensure stability after ~30-45 seconds
  - Follow preplanned launch route, execute flight