Some Assembly Required Checklists

Start of Flight Ops / Location Change

- Weather check – METAR, 800.WxBrief
- Crew Briefing (roles and goals)
- Safety inspect aircraft (AC)
- Power on GS computer and verify computer battery charge
- Start mission planner and verify maps are perfected / download maps
- Verify voice prompts are enabled - ConfigTunig | Planner
- Power on TX and verify battery charge
- Power up AC
- Connect MP to AC
- Verify video signal is good at the location (distance check). Select new channel if needed.
- Perform compass and IMU calibration if required
- Set Failsafe – Battery (10.4V)
- Set Failsafe – Radio loss link to RTL
- Set Geofence and upload to AC
- Set minimum Altitude and verify voice warning is on
- Power off AC

Pre Takeoff (Autonomous Flight)

- Safety inspect aircraft
- Center balloon drop
- Verify camera lens clean and pointed straight down
- Power on GS computer and verify computer battery charge
- Start Mission Planner
- Power on TX and verify TX battery charge>5.2
- Power up aircraft
- Power on monitor and confirm video and OSD (reboot aircraft if needed)
- Connect Mission Planner to aircraft
- Verify AC battery charge (> 12.0V)
- On the flight planner screen, enter the Takoff and RTL commands
- Set waypoints for the mission
- Upload waypoints for autonomous mission
- Verify GPS Lock (Sat count > 10, HDOP <1.0)
- Arm the aircraft!!
- Verify Airspace Clear
- **EYES ON THE QUAD !!**

When the aircraft Lands (Battery Swap)

- Disarm the aircraft (press and hold until Led blinks)
- Stop video recording before unplugging the battery
- Swap the battery
- Safety inspect the aircraft - check props for damage
- Verify camera lens clean and pointed straight down
- Confirm video and OSD on the monitor (reboot aircraft if needed)
- Connect Mission Planner to aircraft
- Verify AC battery charge (> 12.0V)
- Upload waypoints for autonomous mission)
- Verify GPS Lock (Sat count > 10, HDOP <1.0)
- Start recording on aircraft camera (red LED blinks)
- Arm the aircraft!!
- Verify Airspace Clear
- **EYES ON THE QUAD !!**

Balloon Drop Checklist:

1. takeoff from home
2. remind delay between balloon drop
3. Northward Orientation for quad

Day Before
- Charge all flight batteries
- Charge monitor
- Fresh batteries in TX

- Pre-fetch maps for flight location in MP
- Verify MP laptop has no pending Windows updates, then turn off WiFi !!

Packing
- Quadzilla
- Flight Bag - TX, Mavlink TX, batteries, props
- MP Laptop and charger
- Tool bag
- Safety supplies
- Spare parts box