PROTO-03 FIXED WING PRE-FLIGHT CHECKLIST

DATE: 12/04/2023  TIME: 07:00 WIB  LOCATION: ITERA  MISI KE: 1  SESI KE: 2

AT FIELD BEFORE TAKEOFF

ANGLE OF ATTACK AT CRUISE ATTITUDE IS SAME AS 0° ON ATTITUDE INDICATOR

THROTTLE CONTROL DURING MISSION WITH TELEMETRY IS:
- Auto
- Manual

IF TELEMETRY IS LOST DURING MISSION THROTTLE WILL BE:
- Auto
- Manual

THR_FAILSAFE (PWM):

THR_FS_VALUE (PWM):

TRIM_THROTTLE (%):

IF TELEMETRY IS LOST DURING MISSION AIRCRAFT WILL:

IF BATTERY IS LOW DURING MISSION AIRCRAFT WILL:

BATTERY CAPACITY:

BATT_VOLT:

BATT_MON_ENABLE:

MP_ALLERTONLOWBATT_ENABLE:

BATT_MON_CALIB:

BATT_VOLT_PIN:

BATT_CURR_PIN:

RADIO & FLIGHT MODE

RADIO_CALIB:

FLTMODE_1 (radio):

FLTMODE_2:

FLTMODE_3:

FLTMODE_4:

FLTMODE_5:

FLTMODE_6:

SENSORS

ACCE_CALIB:

CMPS_ENABLE (enable, disable):

CMPS_AUTODEC:

CMPS_MAN_DEC:

CMPS_OSI:

ARSPD_ENABLE (enable, disable):

ARSPD_USE:

ARSPD_OFFSET:

ARSPD_RATIO:

BATTERY

BATT_VOLT:

BATT_MON_ENABLE:

MP_ALLERTONLOWBATT_ENABLE:

BATT_MON_CALIB:

BATT_VOLT_PIN:

BATT_CURR_PIN:

RADIO & FLIGHT MODE

RADIO_CALIB:

FLTMODE_1 (radio):

FLTMODE_2:

FLTMODE_3:

FLTMODE_4:

FLTMODE_5:

FLTMODE_6:

CHECK AIRFRAME & CONTROL SURFACES BEFORE TAKEOFF
MISSION PLANNING

HOME ALT IS: 117 m

DEFAULT ALT: 150 m

WP RADIUS: 5 m

LOITER RADIUS: 150 m

AUTO_TKF_ENAB (on/off, 0=disab)

AUTO_LNDING_ENAB (on/off, 0=disab)

ELEVON MIXING

ELEVON_MIX_ENABLE (on/off, 0=disab)

ELEVON_REVERSE (on/off, 0=disab)

ELEVON_CH1_REV (on/off, 0=disab)

ELEVON_CH2_REV (on/off, 0=disab)

ELEVON_MIX_NOT_USED

RADIO_CALIB

WAYPOINT

MISSION_ALT (m)

SERVO_ACTN (on/off, 0=disab)

SERVO_CH (on/off, 0=disab)

MISSION_DIST (m)

AIRFRAME SPECIFIC

THROTTLE SETTINGS

THR_CRSE (30 %)

THR_MIN (0 %)

THR_MAX (80 %)

THWR_SLEW_RATE (100 %)

ARSPD_CRSE ( %)

ARSPD_FBW_MAX ( %)

ARSPD_FBW_MIN ( %)

PROPULATOR SIZE: 11 x 7

Centre of gravity

ANGLE OF ATTACK AT CRUISE ATTITUDE IS SAME AS 0 ON ATTITUDE INDICATOR

CHECK AIRFRAME & CONTROL SURFACES BEFORE TAKEOFF
PROTO-03 FIXED WING PRE-FLIGHT CHECKLIST

DATE: 03/04/2015  TIME: 19:40 WIB  LOCATION: ITERA  MISI KE: 1  SESI KE: 3

**AT FIELD BEFORE TAKEOFF**
- ARDUPILOT FIRMWARE:
- THROTTLE CONTROL DURING MISSION w/TELEMETRY IS:
  - [ ] auto
  - [ ] manual
- ANGLE OF ATTACK AT CRUISE ATTITUDE IS SAME AS 0° ON ATTITUDE INDICATOR
- PITOT TUBE
  - [x] enable
  - [ ] disable
- STABILIZE
  - [x] yellow line to WP-1

**MISSION HOME | START ALT SHOULD BE:** 113 m

**GPS ALT CURRENTLY IS:** 113 m
- [ ] GPS Alt within 5m ACCURACY
- [ ] 8 GPS SATELLITES
- [ ] GPS 3D FIX
- [ ] CH.5 GEOFENCING ON
- [ ] GEOFENCING disabled

**SENSORS**
- [ ] ACCEL_CALIB
- [ ] CMPS_ENABLE (enab,0:disab)
- [ ] CMPS_AUTODEC
- [ ] CMPS_MAN_DEC
- [ ] CMPS_ORIENTATION
- [ ] ARSPD_ENABLE (enab,0:disab)
- [ ] ARSPD_USE
- [ ] ARSPD_OFFSET (___)
- [ ] ARSPD_RATIO (___)

**BATTERY**
- [ ] Batt_CAPACITY (6600 mAh)
- [ ] Batt_VOLT (42.61 Volt)
- [ ] Batt_MON_ENABLE
- [ ] MP_ALLERTONLOWBATT_ENABLE
- [ ] Batt_MON_CALIB
- [ ] Batt_VOLT_PIN (___)
- [ ] Batt_CURR_PIN (___)

**RADIO & FLIGHT MODE**
- [ ] Radio_CALIB
- [ ] FLTMODE (radio: 8, APM: 8)
- [ ] FLTMODE (Manual)
- [ ] FLTMODE2 (5th)
- [ ] FLTMODE3 (Failsafe)
- [ ] FLTMODE4 (Auto)
- [ ] FLTMODE5 (RTL)
- [ ] FLTMODE6 (Ard)

**IF TELEMETRY IS LOST DURING MISSION THROTTLE WILL BE:**
- [ ] auto
- [ ] manual
- [ ] THR_FAILSAFE (enab,0:disab)
- [ ] THR_FS_VALUE (PWM,___)
- [ ] TRIM THROTTLE (___)

**IF TELEMETRY IS LOST DURING MISSION AIRCRAFT WILL:**
- [ ] RTL
- [ ] FS_SHORT_ACTN (RTL,0:none)
- [ ] FS_LONG_ACTN (RTL,0:0:0
- [ ] FS_GCS_DISABLE (enab,0:disab)

**IF BATTERY IS LOW DURING MISSION AIRCRAFT WILL:**
- [ ] RTL
- [ ] LOW_BATT (___ Volt)
- [ ] BATT_MAH_RSVRD (___ mAh)
- [ ] FS_BATT_DISABLE (enab,0:disab)

**CHECK AIRFRAME & CONTROL SURFACES BEFORE TAKEOFF**
PROTO-03 FIXED WING PRE-FLIGHT CHECKLIST

DATE: 25/10/2015 TIME: 16:30 WIB LOCATION: IERA MISI KE: 2 SESI KE: 1

AT FIELD BEFORE TAKEOFF

ARDUPILOT

FIRMWARE: ____________________________

THROTTLE CONTROL DURING MISSION IS:

manual

IF TELEMETRY IS LOST DURING MISSION THROTTLE WILL BE:

auto

Sensors

ACCEL_CALIB

CMPS_ENABLE (enu=a, 0, disab)  
CMPS_AUTODEC  
CMPS_MAN_DEC

CMPS_ORIENTATION

CMPS_SPEED_ENABLE (enu=a, 0, disab)

CMPS_USE

ARSDP_ENABLE (enu=a, 0, disab)

ARSDP_OFFSET (_______)

ARSDP_RATIO (_______)

PATTON TUBE

enable

disable

STABILIZE

yellow line to WP-1

IF TELEMETRY IS LOST DURING MISSION AIRCRAFT WILL:

RTL continue on

FS_SHORT_ACTN (enu=0,0,0,0)

BATT_CAPACITY (_______ mAh)

FS_LONG_ACTN (enu=0,0,0,0)

BATT_VOLT (_______ Volt)

FS_GCS_ENABLE (enu=a, 0, disab)

MP_ALLERTONLOWBATT_ENABLE

FS_GCS_NOT_USED

BATT_VOLT_PIN (_______)

BATT_CURRENT_PIN (_______)

RADIO & FLIGHT MODE

RADIO_CALIB

FLTMODE_CH (radio: 8, APM: 8)

FLTMODE1 (enu=a, 0, disab)

FLTMODE2 (enu=a, 0, disab)

FLTMODE3 (enu=a, 0, disab)

FLTMODE4 (enu=a, 0, disab)

FLTMODE5 (enu=a, 0, disab)

CHECK AIRFRAME & CONTROL SURFACES BEFORE TAKEOFF

DATE: 25/10/2015 TIME: 16:30 WIB LOCATION: IERA MISI KE: 2 SESI KE: 1

ANGLE OF ATTACK AT CRUISE ATTITUDE IS SAME AS 0° ON ATTITUDE INDICATOR

GPS ALT CURRENTLY IS ______ m

GPS ALT within 5m ACCURACY

8 GPS SATELLITES

GPS 3D FIX

CH.5 GEOFENCING ON

GEOFENCING disabled

BATTERY

BATT_VOLT (_______ Volt)

CMPS_SPEED_ENABLE (enu=a, 0, disab)

LOW_BATT (_______ Volt)

CMPS_ORIENTATION

BATT_MAN_RSVD (enu=a, 0, disab)

CMPS_SPEED_ENABLE (enu=a, 0, disab)

LOW_BATT (_______ Volt)

PLANE

MP_ALLERTONLOWBATT_ENABLE

BATT_VOLT_PIN (_______)

BATT_CURRENT_PIN (_______)
**Mission Planning**

- **Home Alt:** [ ] [ ] m
- **Default Alt:** [ ] [ ] m
- **WP Radius:** [ ] [ ] m
- **Loiter Radius:** [ ] [ ] m
- **Auto_TKEF ENAB (enab,0,disab):**
- **Auto_INDNG ENAB (enab,0,disab):**

---

**Elevator Mixing**

- **ELEVON_MIX_ENAB (enab,0,disab):**
- **ELEVON.Reverse (enab,0,disab):**
- **ELEVON.CH1_REV (enab,0,disab):**
- **ELEVON.CH2_REV (enab,0,disab):**
- **ELEVON.NOT_USED:**
- **Radio_CALIB:**

---

**Waypoint**

- **Mission_Alt (m):**
- **Servo_Actn (enab,0,disab):**
- **Servo.CH (enab,0,disab):**
- **Mission_Dist (m):**

---

**Airframe Specific Throttle Settings**

- **THR_CRS (30 %):**
- **THR_MIN (0 %):**
- **THR_MAX (100 %):**
- **THR_SLEWRATE (_10 %):**
- **ARS_PD_CRS (3 %):**
- **ARS_PD_FBW_MAX (____ %):**
- **ARS_PD_FBW_MIN (____ %):**

---

**Check Airframe & Control Surfaces Before Takeoff**
**MISSION PLANNING**

- Home Alt: [ ]
- Default Alt: [ ]
- WP Radius: [ ]
- Loiter Radius: [ ]
- Auto_Take_ENAB: [ ]
- Auto_Landing_ENAB: [ ]

**ELEVON MIXING**

- ELEVON_MIX_ENAB: [ ]
- ELEVON_REVERSE: [ ]
- ELEVON_CH1_REV: [ ]
- ELEVON_CH2_REV: [ ]
- ELEVON_MIX_NOT_USED: [ ]

**WAYPOINT**

- Mission Alt: [ ]
- Servo_ACTN: [ ]
- Servo_CH: [ ]
- Mission DIST: [ ]

**AIRFRAME SPECIFIC THROTTLE SETTINGS**

- THR_CRS: [ ]
- THR_MIN: [ ]
- THR_MAX: [ ]
- THR_SLEWRATE: [ ]

- Arspd_CRS: [ ]
- Arspd_FBW_MAX: [ ]
- Arspd_FBW_MIN: [ ]

**CHECK AIRFRAME & CONTROL SURFACES BEFORE TAKEOFF**
PROTO-03 FIXED WING PRE-FLIGHT CHECKLIST

DATE: 01/01/2015  TIME: 13:45:00
LOCATION: ITERA  MISI: 2  SESI: 5

AT FIELD BEFORE TAKEOFF

- ARDUPILOT
  - FIRMWARE: 

THROTTLE CONTROL DURING MISSION/TELEMETRY IS:

- manual

IF TELEMETRY IS LOST DURING MISSION
THROTTLE WILL BE:

- manual

- THR_FAILSafe (on/off, disab) (on/off, disab)
- THR_FS_VALUE (PWM)
- TRIM_THROTTLE (%)

IF TELEMETRY IS LOST DURING MISSION
AIRCRAFT WILL:

- RTL continue on
- FS_SHORT_ACTN (on/off, disab)
- FS_LONG_ACTN (on/off, disab)
- FS_GCS_ENABL (on/off, disab)

IF BATTERY IS LOW DURING MISSION
AIRCRAFT WILL:

- RTL continue on
- LOW_BATT (Volt)
- BATT_MAH_RSVD (mAh)
- FS_BATT_ENABL (on/off, disab)
- FS_BATT_NOT_USED

Sensors

- ACCE_CALIB
- CMPS_ENABLE (on/off, disab)
- CMPS_AUTODEC
- CMPS_MAN_DEC
- CMPS_ORIENTATION
- ARSPD_ENABLE (on/off, disab)
- ARSPD_USE
- ARSPD_OFFSET
- ARSPD_RATIO

Battery

- BATT_CAPACITY (mAh)
- BATT_VOLT (V)
- BATT_MON_ENABLE
- MP_ALLERTONLOWBATT_ENABLE
- BATT_MON_CALIB
- BATT_VOLT_PIN
- BATT_CURR_PIN

Radio & Flight Mode

- RADIO_CALIB
- FLTMODE_CTRL (radio, APM)
- FLTMODE1 (radio, APM)
- FLTMODE2 (radio, APM)
- FLTMODE3 (radio, APM)
- FLTMODE4 (radio, APM)
- FLTMODE5 (radio, APM)
- FLTMODE6 (radio, APM)

Check airframe & control surfaces before takeoff.