



## **NOARLUNGA MODEL AERO SPORTS Inc.**

Flying field and club rooms.

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# **NMAS – Pilots Recommended Safety Procedures – Internal Combustion (IC)**

## **MOP NUMBER 14.3**

(Originated 28/06/2015, Revised 02/05/2019)

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#### **1. PURPOSE**

To inform all members regarding IC model safety procedures when in the NMAS pits area and when on the field.

#### **2. POLICY**

The following documents will be available to all club members for reference.

#### **3. RESPONSIBILITY**

It is the responsibility of the Chief Flying Instructor and all members to apply these recommended procedures, in the interest of safety.

#### **4. SAFETY PRECEDURES**

- **ARRIVAL AT FIELD – GO TO PIT AREA**
  - Place transmitter (Tx ) and frequency key in the Pound (Not required for 2.4 GHz).
  - Go to Shed and get a safety restraining fork or provide strap to restrain model in pit area.
  - Assemble plane.
  - Set up flight box (Pump, starter, glow leads, tool kit, etc).
  - Place Tx key on board and remove Tx from pound (Not required for 2.4 GHz).
  - Carry out pre-flight checks (below).
- **PRE-FLIGHT CHECKS – IN PIT AREA (new trainee models are to be checked with Instructor)**
  - Check - Setup of flight box is safe (ie; battery connections are protected etc).
  - Check - Linkages and screws are tight, aileron, elevator, rudder, throttle etc.

- Check – Has anything changed which might have moved the models' Centre of Gravity (C of G) from its correct position as per model instruction manual or flight test results.
  - Check / test Rx battery pack in plane is fully charged (a tail wagger will act as a safe guard if installed).
  - Check correct model selected on Tx, then switch on Rx battery pack.
  - Tx fail safe setup test - Turn off Tx to test that throttle goes to idle and that other servos remain in last best position. Once tested, turn Tx back on for normal operation.
  - Carry out range check. Take a walk for 30 metres with Tx aerial down (or range check button pressed) – check controls continue to work correctly.
  - Set timer to required flight time.
  - Ensure that the model is properly restrained for safety. Fill tank.
  - Open throttle and prime motor.
  - Close throttle and set throttle trim.
  - Connect glow driver (where required) and start motor.
  - Stand behind the engine and propeller to remove glow starter (where required).
  - Open throttle, tune motor and raise plane to 45 degrees – motor revs should not alter.
- **READY TO FLY**
    - When a spot on the flight line is available and keeping well clear of the propeller, take plane and Tx to field - motor on high idle. Trainees must be with instructor. A buddy box may be used to assist the instructor and trainee. Hook Tx to neck strap (or as you prefer).
      1. Extend Tx antenna. (Not always required for 2.4 GHz). Note – Place one leg either side of the rear fuselage to restrain the model.
      2. Check direction of aileron, elevator, rudder and throttle operation. Briefly run motor at maximum throttle setting.
      3. Check wind sock for direction of take-off, call "ON THE FIELD" to alert other flyers and LOOK to see if any planes are landing.
      4. Start timer.
    - Take off – have a good flight and call "LANDING" on final approach.
    - On landing; taxi back, turn off motor, Rx, then turn off Tx, place Tx in pound and remove key. Put the key on the Tx in the rack and check Tx is off (Pound & key Not required for 2.4 GHz).
- **STORAGE OF MODELS**
    - Models can be stored in the open shed but must be without fuel. Motors must not be run in the open shed.