

PROCEDURE FOR SOUND TESTING

This is the standard sound testing method by which all aircraft shall be tested at the Palm Beach Radio Control Association flying site.

1. Response with windscreen installed. All aircraft will be checked entirely over grass or entirely over asphalt and on the ground at 25 feet from the sound meter.
2. The sound measurement shall be taken with the sound meter set to the “A” weighting, slow response with windscreen installed.
3. The sound meter shall be placed downwind, twenty-five feet from the model centerline and positioned in line with the prop arc at twenty-four inches in height (see Fig. 1).
4. The sound meter shall be pointed directly at the model and perpendicular to the fuselage. The model being measured shall have its engine run at full power for the sound test. (see Fig. 2).
5. No noise reflecting objects will be allowed within three feet of the sound meter.
6. The sound measurement will be taken from the side of the aircraft that the muffler is on. If the muffler is on the bottom or top of the model, then the sound measurement will be taken on the side of the aircraft closest to the exhaust port of the muffler.
7. The transmitter will be operated by the Field Safety Officer conducting the test.
8. All sound measurements will be taken downwind from the aircraft.

OPTIONAL METHOD

If the winds exceed 15mph, two measurements shall be taken, one upwind and another downwind. The two measurements will then be added together and divided by 2 to get the average. The average of these two measurements will be considered the sound measurement.

Figure 1.

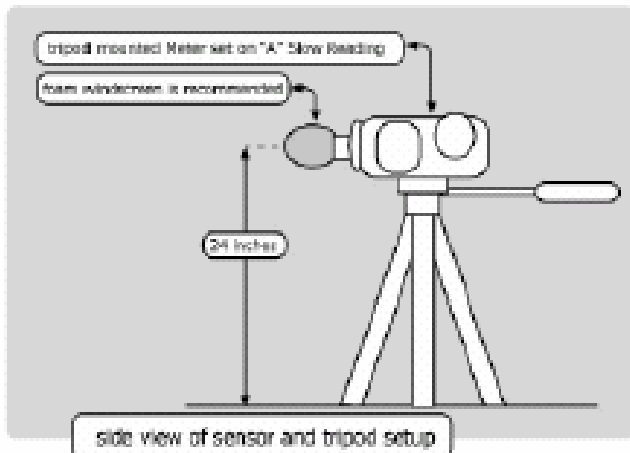


Figure 2:

