



Academy of Model Aeronautics

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From: Leo B Pilachowski
Subject: Rules Change Proposal

AMA Competition Regulations Rules Change Proposal Form (electronic)

Please complete this form and click on the SUBMIT button at the bottom of the page. This will send the proposal to the Competition Department at AMA HQ. A copy will then be sent to the appropriate Contest Board Chairman. The current issue of the Competition Regulations must be referenced.

Proposal Number: IFF17-01C2
Received Date: 7/15/16
Revised Date:
Version Number:C2

Select Proposal Type (select one from drop-down box):

Cross

Select Applicable Competition Regulations this proposal relates to (select one from drop-down box):

Indoor Free Flight

Give Brief Summary of the Proposed Change: (Note: You can drag the right bottom corner of the box to enlarge for additional space.)

The cross proposal makes some changes to make the language more consistent with current rules for other classes. Material changes are:

- 1.) removing the restriction limited propellers to only unmodified commercially available units and restricting the propeller to two blades
- 2.) increasing the maximum allowable model length from 18 inches to 22 inches and changing the method of measuring the model length.
- 3.) changing the motor stick length measure from 10 inches hook to hook to 11 inches front of the thrust bearing to the rear motor hook.
- 4.) increasing the minimum weight from 7.5g to 8g.

5.) allowing all types of polyethylene film and not just hdpe and clarifying that all type of such bags are allowed

6.) adding the "no gadget" rule from the LPP class.

State exact wording proposed for the Competition Regulations. List paragraph number where applicable. Example: Change "quote present rule book wording" to "exact wording required". (Note: You can drag the right bottom corner of the box to enlarge for additional space.)

Page IND-3... Add P-18 (Provisional Event 227) – See section 227

Page IND-10

27. P-18 event 227

27.1. Except for the specific rules that apply to this event, the rules for free flight rubber hand launched stick shall apply.

27.2. The model shall be a rubber powered monoplane covered with either tissue or polyethylene plastic shopping, grocery, produce, or similar bag material.

27.3. The maximum wing chord shall be 4.5 inches (11.43 cm) chord and the maximum projected wingspan shall be 18 inches (45.72 cm).

27.4. The maximum horizontal stabilizer chord shall be 3.5 inches (8.89 cm) and the maximum projected horizontal stabilizer span shall be 9 inches (22.86 cm).

27.5. The model, when placed belly down on a flat horizontal surface, shall fit completely within a rectangle 18 inches by 22 inches (45.72 cm by 55.88 cm)

27.6. The propeller shall have two blades and a maximum diameter of 5.5 inches (13.97 cm). The propeller shall be driven directly (ungeared) by the rubber motor. Hubs that allow blade replacement and/or manual pitch adjustment are allowed.

27.7. The distance from the front of the thrust bearing to the rear motor hook shall not exceed 11 inches (27.94 cm).

27.8. The minimum weight of the completed model, less rubber, shall be 8 grams.

27.9. No gadgets of any kind are permitted on the model (i.e., variable pitch props, automatic incidence changing mechanisms, etc.). Normal flexing and flaring of wood or plastic propeller blades and spars are allowed.

State logic behind proposed change, including alleged shortcoming of the present rule(s). STATE INTENT FOR FUTURE REFERENCE (Note: You can drag the right bottom corner of the box to enlarge for additional space.):

The reasons for the proposed changes are as follows:

- 1.) Commercially available propellers, even from the same manufacturer are significantly variable in weight and pitch distribution. The commercially available restriction will allow limited production runs of custom propellers. There is no reason, then, to exclude an individual from making his or her own propeller. This change makes the rules more fair and equal to all. The two blade restriction is to prevent multi-blade ducted fan type propellers.
- 2.) The original 18 inch makes for a plane that is extremely sensitive to adjustments and also less able to recover from upsets. This is seen in the current LPP rules. The longer length makes the plane easier to adjust and fly in all ceiling heights. The containment rectangle method of length restriction makes for much easier rule enforcement and compliance checking. Such problems are seen in the current LPP length rules and resulting difficulty in ensuring rule LPP compliance at contests without special measuring jigs.
- 3.) Other classes measure motor stick length from front thrust bearing surface to rear motor hook. Changing from hook to hook makes the rules more consistent with other classes and makes for easier compliance checking.
- 4.) The slight increase in minimum weight will make it easier for beginners to have a minimum weight plane. This makes for more performance equality for beginning fliers.
- 5.) HDPE film is slowing being replaced with other types of polyethylene film for plastic shopping, grocery and produce bags. This change helps to "future proof" the rules. Adding grocery and produce bags just clarifies the rules to make sure all types of polyethylene bags are allowed.
- 6.) The "no gadget" rule, as in the LPP and ministick classes, makes sure that the event stay simple and more accessible to beginners.

If this proposal is for a new event, include all event test data/information here. Please provide information on what testing of this new event has taken place to include number of participants and number of contests. (Note: You can drag the right bottom corner of the box to enlarge for additional space.)

Covered in original proposal.

State effect, if any, on current AMA records:

None

Note: The Contest Board Chairman may, in coordination with the submitter of the proposal, at any time prior to submitting a proposal to the contest board for Final Vote, Edit proposal wording to increase clarity and to avoid ambiguity provided, the proposal intent is not changed.

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