

1951 to 1979 Vintage FAI Power Event
Rules listed below are for 2008 Big AI's and 2008 Livotto contest
March 20, 2008

FAI Power Rule History

1951 – 1955 Maximum engine displacement 2.5 cc. Fuselage X Section= total area / 80. Minimum weight, 200 grams per cubic centimeter. Maximum 20 second motor run, any fuel. Minimum surface loading, 12g/sq dm. Rise off ground.

1956 – 1957 Minimum weight, 400 grams per cubic centimeter. This rule did not go over well with the flyers and to my knowledge was never used. For this time period we will use the 1951 to 1955 rules with no cross section rule.

1958 – 1960 Current weight requirements instituted. Minimum weight 300 g/cc of engine displacement. Minimum surface loading 20 g/sq dm. Maximum 15 second motor run, any fuel.

1961 – 1965 10 second motor run, any fuel

1966 – 1970 10 second motor run, tuned pipes allowed, 80/20 alcohol fuel only

1971 – 1975 10 second motor run, tuned pipes banned, 80/20 alcohol fuel only

1976 – 1979 7 second motor run, 80/20 alcohol fuel only

Rules for 1951 to 1979 FAI Power Event

The idea for this set of rules is to let the flyer participate in the contest with his favorite model from a given year with a motor from the same time period. The flyer would then use the set of rules that governed that time period and fly against other flyers who have picked a model from a different year with a different set of rules. Over the years, the FAI rules have been adjusted to keep the model performance set to the three minute max. A Frisco Kid from 1954 using a Torp 15 with 20 seconds of motor run should be equal to a 1975 Summerwind / Rossi 15 combination with a 7 second motor run. Only time will tell if this is true. Please do not put a Rossi in a Frisco Kid. You will not be allowed to fly.

Motors: December 7th Revision

1951 - 1960 Engines, K&B, OS Max, Cox, MVVS, Moki, Webra, Pre 1960 Super Tigre, 1960 Super Tigre G20 (with 1960 printed in the side of the engine case, as used by the Italian Team at the 1960 W/C's), Diesels of that time period, etc.
1961 - 1969 Engines, OS Max, Super Tigre, TD's, K&B 64 Series, MVVS, Moki, Webra, etc
1970 -1979 Engines, Rossi, Super Tigre, Cox Conquest, Cossi's, MVVS, Moki, Webra, etc

All pre 1960 Super Tigres, and the 1960 Super Tigre G20 (with 1960 printed in the side of the engine case) will be allowed a 15 second motor run, all post 1960 Super Tigre G20's and the later G15 will be required to use a 10 second motor run. The Rossi will be allowed to use both the 10 second and 7 second motor run depending on the model selected. Tuned pipes will be allowed on a Super Tigre, or any other engine that used a tuned pipe for the 1966 to 1970 time period.

No Nelson's or VE's along with any other engines produced after 1979 will be allowed.

Models:

We are fortunate that so many designs are available to pick from for this event. Zaic's books, Aero Modeller, Free Flight News, the National Free Flight Society Digest / plan service along with AMA's plan service have many plans for models of this time period. If your selection is an original design please supply plans / photo's of the original model. I will not have a list of models for the 1951 to 1979 period. If you select a model that is not in one of the above sources please supply a published three view or original plans.

Motor mounting does not have to follow the original design. George French used a cast aluminum motor mount on his Night Train. If you decide to build a Night Train and have one like it please use it. If you cannot find one on E-Bay or one from a fellow flyer, replace the mount with an aluminum plate.

Any glow plug may be used. Any propeller may be used. Any timer may be used. Flood off and prop brake will be allowed for all models along with any style of fuel tank.

Wings and stabs must be covered if original design had open structure; not replaced with sheeting. Sheeting must be used on the wing and stabilizer if the original design used it. No restrictions on covering material: Micafilm / modern film may be used in place of tissue, silk, etc.

No aluminum / carbon D-box construction will be allowed on the wing or stab. Carbon spars and carbon-capped ribs will be allowed. No carbon only TE's will be allowed. Balsa / carbon TE's are allowed.

Modern fuselage construction will be allowed for any model that you select that used a rolled tail boom on the original model. If the model you selected used a box style construction for the fuselage then you need to copy this construction.

No bunting is allowed.

All models will be hand launched.

This will be a five round contest with no reduction in motor run for flyoffs. Flight times will be increased for the flyoffs.

Revision / Additions below: December 7, 2007

Some three views do not have much detail regarding construction of the model. An example is in the 1955-56 Zaic year book. On page 73 is a model with the airfoils shown and no dimensions for the wing panels or rib positions. Building this model will require the builder to scale from given dimensions on the plans along with the shown airfoils. If your choice is a model with this minimum information please insure that you bring documentation to the contest showing how you obtained the final dimensions.

Adding spars or false ribs is no problem with some of the early designs that have very minimum construction. Do not revise a straight rib design with a Union Jack style of construction.

Two piece wings will be allowed for any design. To help with airline travel you will be allowed to make a two piece wing for any design you select.

Landing gear / prop savers are the choice of the builder. No ROG or VTO will be used for safety requirements.

OS Max 1's, OS Max II's and OS Max III's will be allowed for all models. The availability of 1's and 11's is very limited. Also, the power difference is very minimal between the three motors.

With the difficulty of finding diesel engines from the early 50's replica diesels will be allowed.

Proxy flying will be allowed. The builder of the model can make arrangements for a flyer of the model / models or I will make arrangements with agreement from the builder. Please contact me before sending a model.

A competitor will be allowed to enter more than one model providing it is from a different rule set. An example would be a model from the 1954 time frame and another model from the 1970 time frame. The only requirement is paying a double entry and completing the flights in the one hour time period for each round.

A flight line will not be used. The competitors will fly from a 50 meter square box. You will be allowed to fly from any position in the box. Your choice.

Revision: January 13, 2008

The date for the 1971 to 1974 rules was revised to 1971 to 1975 along with the 1975 to 1979 being revised to 1976 to 1979. Early information had been found that showed the end of 1974 was the cut off for the 10 second engine run. We have just found out the entire year of 1975 along with the 1975 World Championships used the 10 second engine run.

Revision: March 20, 2008

Enya .15 Mk I, II, and III will be allowed for all models.

Several spelling revisions are included in this revision also.

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