

AMA ELECTRIC EVENTS (2002 - 2004 Competition Rules)

GENERAL REQUIREMENTS

Maximum surface area - 2335 sq. in. (150.65 dm²)

Maximum weight - 11 pounds (5 kg)

Maximum surface loading - 24.59 oz./ft² (75.11 g/dm²)

Minimum surface loading - 3.93 oz./ft² (12.00 g/dm²)

Maximum battery voltage - 42 Volts

Maximum NiCd cell count - 30

Maximum cell volume - 1.2 in³ (19.66 cm³)

Maximum cell weight - 2.0 oz (56.75 g)

Gear boxes, folding props, and multiple motors permitted

Motor shut off method required

Motor shut off must be demonstrated by radio command

Optional landing points at discretion of CD (25 points max)

Man-on-man format at discretion of CD

Maximum points 1000 and all others awarded a fractional amount

Simultaneous launch (4 models minimum)

LMR event time does not include motor run

Landing points up to 100

Launch master to time motor run

Timers start at "motors off" command by CD

Separate landing circle for each man-on-man flight group member

Class A - 7 cells (NiCd) maximum

Class B - 30 cells (NiCd) maximum

BATTERY ALLOTMENT SAILPLANE EVENTS

ELECTRIC SAILPLANE

Class A - Event 609

Class B - Event 611

RC ELECTRIC OLD TIMER

Class A - Event 617

Class B - Event 619

Model designed, kitted, or published before Dec 31, 1942

RC "OLDIE" (PRE - 1960)

Class A - Event 622

Class B - Event 624

Model is designed & published before 1960

REQUIREMENTS FOR EVENTS 609, 611, 617, 619, 622, & 624

Any motor or motors

8 minute precision flight task including motor run

Three flights on a single battery charge

No landing points

One point for each flight second up to 8 minutes

One point deducted for each second over 8 minutes

Scoring is the sum of the three flight times

EVENT	ROUNDS
Class A Sailplane (Event 609)	3
Class B Sailplane (Event 611)	3
Class A Old Timer (Event 617)	3
Class B Old Timer (Event 619)	3
Class A "Oldie" (Event 622)	3
Class B "Oldie" (Event 624)	3

LIMITED MOTOR RUN SAILPLANE EVENTS

ELECTRIC SAILPLANE

Class A - Event 610

Class B - Event 612

RC OLD TIMER

Class A - Event 618

Class B - Event 620

Model designed, kitted, or published before Dec 31, 1942

RC "OLDIE" (PRE - 1960)

Class A - Event 623

Class B - Event 625

Model is replica designed & published before 1960

REQUIRED FOR EVENTS 610, 612, 618, 620, 623, & 625

Any motor or motors

8 minute precision flight task including motor run

Battery charging allowed between flights

No landing points

One point for each flight second up to 8 minutes

One point deducted for each second over 8 minutes

Scoring is sum of three flight times

EVENT	MOTOR RUN TIME	ROUNDS
Class A Sailplane (Event 610)	45 seconds	3
Class B Sailplane (Event 612)	30 seconds	3
Class A Old Timer (Event 618)	60 seconds	3
Class B Old Timer (Event 620)	45 seconds	3
Class A "Oldie" (Event 623)	60 seconds	3
Class B "Oldie" (Event 625)	45 seconds	3

RC OLD TIMER “TEXACO” (PRE-1943) (Event 616)

Any motor with 30 cell (NiCd) maximum
Model is replica designed & published before 1943
Motor run is unlimited & can be turned off & on at will
Flight task is 25 minute precision time
Timing includes motor run
Scoring is one point per second up to 25 minutes
One point per second deduction over 25 minutes

RC “OLDIE” (PRE -1960) “TEXACO” (Event 621)

Any motor with 30 cell (NiCd) maximum
Model is replica designed & published before 1960
Motor run is unlimited & can be turned off & on at will
Flight task is 25 minute precision time
Timing includes motor run
Scoring is one point per second up to 25 minutes
One point per second deduction over 25 minutes

ELECTRIC PYLON RACING (EVENT 614)

Any motors with 7 cells (NiCd) maximum
Ready to fly maximum weight is 2.5 kg
Maximum 4 models per heat
Each race 10 complete laps
One cut pylon results in 10% penalty added to flight time
Two cut pylons results in no score
Laps flown in counterclockwise direction
Triangular course 300 ft (91.44 m) between pylons 1 & 2, 60 ft
(18.29 m) between pylons 2 & 3 and 300 feet (91.44 m)
between pylons 3 & 1
Winner is the fastest time for each 10 lap heat
Raw score for each heat is time in seconds for 10 laps
Net score for each heat is 200 minus the raw score
Final score is sum of the net scores
Two heats minimum to declare a final winner
Winner is the pilot with the highest final score

RC CLASS B PYLON RACING (Event 615)

Any motors with 30 cells (NiCd) maximum
Ready to fly maximum weight is 2.5 kg
Maximum 4 models per heat
Each race 10 complete laps
One cut pylon results in 10% penalty added to flight time
Two cut pylons results in no score
Laps flown in counterclockwise direction
Triangular course 180 m (591 ft) between pylons 1 & 2, 40 m
(131 ft) between pylons 2 & 3, and 180 m (591 ft)
between pylons 3 & 1
Winner is the fastest times for each 10 lap heat
Raw score for each heat is time in seconds for 10 laps
Net score for each heat is 200 minus the raw score
Final score is sum of the net scores
Two heats minimum to declare a final winner
Winner is the pilot with the highest final score

**SOCIETY OF ANTIQUE MODELERS (SAM) RC ELECTRIC
EVENTS**

OLD TIME ELECTRIC/LIMITED MOTOR RUN

Old time model - designed, kitted, or plans published
prior to December 31, 1942 (listed by SAM)

Models must have a minimum 8 oz/ft² (24.43 g/dm²) planform
wing area

7 cells (NiCd) maximum rated capacity of 800 mAhr

Ferrite and non-ferrite motors up to 0.05 size

Direct or gear drive allowed

Motor control required

Folding propellers allowed

Single continuous motor run times

90 seconds for ferrite motors

75 seconds for non-ferrite motors

7 minute maximum flight time per attempt

4 attempts allowed for 3 official flights

An attempt to be called during motor run time

Flight time starts when model is released

ELECTRIC TEXACO

Old time model - designed, kitted, or plans published
prior to January 1939 (listed by SAM)

Models must have a minimum 8 oz/ft² (24.42 g/dm²) planform
wing area

7 cells (NiCd) maximum rated capacity of 800 mAhr

Ferrite and non-ferrite motors up to 0.05 size

Direct or gear drive allowed

Motor control required

Folding propellers allowed, but must be restrained from
folding

No maximum motor run times. Motor may be run until
battery pack is exhausted and may be started and
stopped at will

15 minute maximum flight time per attempt

3 attempts allowed for 2 official flights & scores added
Attempt called during the first 2 minutes of the flight
Flight time starts when model is released

SAM ½ A TEXACO AIRCRAFT DEFINITIONS

Old Timer - designed, kitted, or plans published prior to
Dec. 31, 1942

Antique - designed, kitted, or plans published prior
to Dec 31, 1938

Model originally gas powered with a 0.049 reed valve engine,
prop limited to 8 in. (203.20 mm), and 5.1 cc fuel
allotment

8 oz/ft² (24.43 g/dm²) minimum weight/unit area

ELECTRIC ½ A TEXACO

SAM defined ½ A Texaco airplanes (see above)

Speed 400 motor

7 cells maximum

Maximum capacity 600 mAhr NiCd batteries

15 minute task in each of two (2) rounds

Motor may be run at any time during the flight

NEAC (NATIONAL ELECTRIC AIRCRAFT COMMITTEE)
EVENTS

{NEAC IS A SPECIAL INTEREST GROUP IN THE AMA}

GENERAL RULES

AMA rules apply

Motor run times are continuous and starts when plane is launched

Motor may be run at will during the motor run time

Penalty for running the motor beyond the allotted time is zero points for the round

NEAC RUN AMA ELECTRIC SAILPLANE EVENTS

Class A events – 7 cells maximum

Class B events – 30 cells maximum

No limits on cell size, capacity, or weight

Maximum 8 minute flight time per round including the motor run time

Events summarized in the table below

EVENT	MOTOR RUN TIME	ROUNDS
Class A Sailplane (AMA 610)	45 seconds	5
Class b Sailplane (AMA 612)	30 seconds	5
Class A Oldtimer (AMA 618)	60 seconds	5
Class B Oldtimer (AMA 620)	45 seconds	3

Oldtimer events radio functions are rudder, elevator, and motor control

Two spot landing circles to be included in the scoring

40 ft (12.2 m) - 10 bonus points and 20 ft (6.1 m) – 20 bonus points

Any part of the airplane in the circles counted

No bonus points allotted if aircraft parts are shed upon

landing

Anyone can serve as a timer

Motor control demonstrated at the flight line

AMA events flown in an open format – rounds may be flown
any time during the allotted time set by the event director

AMA event scoring – flight time expressed in points plus
landing bonus points

NEAC SPECIAL EVENTS

Sport Sailplane

Airplane must have a wingspan less than 100 in (2.54 m)

Rudder, elevator, spoiler, and motor control only

7 cells maximum

Rules same as AMA 610, except

120 second (2 minutes) motor run time

Maximum flight time of 600 seconds (10 minutes)

Maximum landing bonus of 10 points within a 40 ft
(12.19 m) circle

Maximum score for each of three (3) rounds is 610 points

½ A Sailplane

Rules the same as AMA 610 except

Limited to ½ A motors (Speed 400)

7 cells maximum

90 second motor run

½ A Electric Texaco

Airplanes are ½ A Texaco defined by SAM

Limited to ½ A motors (Speed 400)

7 cells NiCd maximum & 600 mAhr maximum capacity

15 minute flight task in each of two (2) rounds

Motor may be run at any time during the flight

½ A Electric Pylon Racing

½ A motors only (Speed 400)

7 cell maximum

10 laps on triangular course measuring 300 ft (91.44 m) by
300 ft (91.44 m) by 60 ft (18.28 m)

Electric Fun Scale

Static score based on craftsmanship and scale accuracy

Documentation optional, but will be considered by the judges

Flight score based on performance and realism

Flight plan is not required, but various scale maneuvers called
out by contestant

Final score is combined static and flight scores

Any size or type of electric motor allowed

Special award for the highest single electric motor ½ A plane

F5J ELECTRIC SAILPLANE

SPEED 400 SAILPLANE

Speed 400 ferrite motors only

8 cells (NiCd) maximum any capacity

60 second motor run

10 minute precision flight task including motor run

Man-on-man flight format

Landing points - 15 points inside 1.0 m, 10 points inside 2.0 m, and 5 points inside 3.0 m

Flight group winner receives 1000 points and others receive a percentage depending on their flight and landing points

Four attempts to complete three flights

Final winner is pilot with the most points

One point per second up to 10 minutes

One point deducted per second over 10 minutes

7 CELL SAILPLANE

Any motor

7 cells (NiCd) maximum

40 second motor run

10 minute precision flight task including motor run

Man-on-man flight format

Landing bonus - 15 points inside 1.0 m, 10 points inside 2.0 m, and 5 points inside 3.0 m

Flight group winner receives 1000 points and others receive a percentage depending on their flight and landing points

Four attempts to complete three flights

Final winner is pilot with the most points

One point per second up to 10 minutes

One point deducted per second over 10 minutes

UNLIMITED SAILPLANE

Any motor

30 cells (NiCd) maximum

20 second motor run

10 minute flight task including motor run

Man-on-man flight format

Landing points - 15 points inside 1.0 m, 10 points inside 2.0 m, and 5 points inside 3.0 m

Flight group winner receives 1000 points and others receive a percentage depending on their flight and landing points

Four attempts to complete three flights

Final winner is pilot with the most points

One point per second up to 10 minutes

One point deducted per second over 10 minutes

FAI ELECTRIC SAILPLANE EVENTS

CLASS F5B ELECTRIC POWERED MOTOR GLIDERS

Multitask event - Distance and duration and landing
Tasks executed in one flight with two flights minimum

Model definitions

Minimum weight - 2000g

Maximum battery weight - 1100g

Maximum cell count - 30

Maximum surface loading - 75 g/dm²

Course layout - two vertical plans A and B 150 meters apart

Distance task

200 seconds to complete minimum of 2 climbs and
maximum of 10 climbs

Competitor decides time for climb and gliding

Motor start and stop announced to timer

Task begins when plane crosses plan A to plan B

Restarting motor stops leg counting

After 200 seconds duration task begins

Duration and landing task

600 seconds to complete duration and landing

Competitor decides motor on and off time

Gliding time starts at motor off and stops at motor on

Competitor announces motor on and off

Gliding time cumulative

Landing bonus

Inside 30 m – 10 points, inside 20 m – 20 points, and
inside 30 m - 10 points