

Middle Point R/C Flyers



August 2018 Newsletter

Upcoming Events:

- TBA-Veterans Fun Fly – Murfreesboro, TN
- September 6 – Membership Meeting
- September 29 – Family Fun Day – Family Hobbies – Smyrna, TN
- September 24-30 – Nall in the Fall – Woodruff, SC
- October 4 – Membership Meeting
- November 1 – Membership Meeting
- November 3 – MTRCCA Swap Meet – Antioch, TN
- December 7 – Membership Meeting
- January 3, 2019 – Membership Meeting
- February 7 – Membership Meeting
- March 7 – Membership Meeting
- March 16 – MPRCF Swap Meet
- April 4 – Membership Meeting
- May 2 – Membership Meeting

Prez Sez:

Well, another month is behind us; and it was a pretty busy one.

On August 11 we held our National Model Aviation Day Fly-In for Charity at the Cane Ridge Park airfield in Antioch. The event was co-sponsored by the Cane Ridge club. We appreciate the Cane Ridge folks hosting the event and for helping to make it a smooth one. Our club was responsible for running the registration and concessions for the event. Together we raised \$700 for the Disabled American Veterans organization. I want to thank all of the club members who came out to support this very worthwhile charity and especially thank those members who volunteered their time manning the registration and concessions areas.

On August 24-26, the Middle TN R/C Clubs Association held its big Fall Fly-In at the Dickson County Municipal Airport. As a member of the Association this was our event too; so we had the joy of helping to run the event as well as enjoying the financial benefits from any proceeds that the event generates. There were a good number of club members in attendance and I think that everyone had a good time. The weather was great the entire weekend and the fellowship was great too. Thanks goes out to those members who came out Friday to help with the setup and to those who helped on Sunday with the tear-down. The next big Association event is the Giant Regional Swap Meet to be held on November 3 in Antioch. See the flyer later in the Newsletter.

During the month we installed the solar panels on the container and hooked-up the high capacity batteries to the system. So far everything is working as advertised. We don't think that we will be running out of battery capacity anytime soon. Whenever you see John D., thank him for the fantastic job that he did on this system. His workmanship and attention to details is really something to behold.

Continued....

<https://www.facebook.com/groups/mprcf/>

www.mprcf.com

August Meeting Minutes:

The meeting, held at O'Charley's, was called to order by Dan W. @ 6:08pm. There were 13 members present. There was one guest.

The July meeting minutes were accepted as published in the Newsletter.

The July Treasurer's report was read and accepted.

There were no new members added since the last meeting.

Old Business:

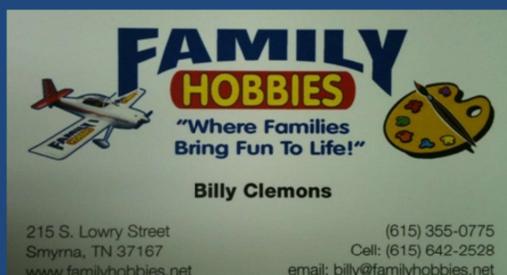
Upcoming local events:

- National Model Aviation Day Fly-In – August 11 – Cane Ridge Club Field
- Tullahoma Giant Scale Fly-In – August 17-19
- Association Fall Fly-In – August 24-26 – Dixon Airport
- Association Fall Swap Meet – Antioch – November 3

National Model Aviation Day Fly-In:

Due to field issues, the event will be held at the Cane Ridge Club. MPRCF will still provide all of the manpower to run the event. Need volunteers for concessions. Dick T. will handle registration. All members are encouraged to attend and provide support for the DAV.

Continued...



Prez Sez (cont.):

On Saturday, September 1, we are planning to remove the fabric runway so that we can get some bulldozer work done to hopefully correct the drainage issues that we have had. The plan is to build up the south area of the runway to eliminate a slight dip that exists. Then we will create a swale running the length of the runway to create a runoff for the rain water. Afterward, we will groom the runway area and any other areas that have ruts. We will then plant grass and lay straw mats where necessary to hold in the grass to prevent runoff of the seed. Lastly, the fabric runway will be replaced. We will schedule another workday when we get to the grass planting stage and again when the runway is ready to go down. Everyone's help during these workdays is appreciated.

From now through the November membership meeting we will be looking for folks to serve as 2019 Officers and Board Members. I believe that everyone should experience the privilege of being a club officer, so it is time for some new folks to step up and get involved with the leadership of the club. While I can't speak for the other officers and board members, I can say for certain that my tenure as club President will be ending this year. Six years as President is long enough for any one person. So, please consider volunteering for one of the positions or consider taking a position if asked to run.

Our next meeting will be at the O'Charley's Restaurant, located on Memorial Blvd., on Thursday, September 6.

Well...that's it for this month.

Dan

Family Hobbies
August 24 at 12:34 PM · 🌐

Our 5th Annual Family Fun Day is scheduled for Saturday September 29th 10am to 4pm. Traxxas is providing the Slashes to play with on our temporary track from 10am to 2pm. You can BRING YOUR OWN VEHICLES and play between 2pm and 4pm! SALES STORE WIDE - DRAWINGS EVERY HOUR FOR FREE MERCHANDISE. Please help us spread the word!



August Meeting Minutes (cont.):

Association Fall Fly-In:

Dan W. reported on the Association's Fall Fly-In scheduled for August 24-26. The venue for this event, the Dickson County Municipal Airport, is a great place for the event. Members are requested to help set up for the event on Friday, August 24, and to volunteer their time throughout the event. Advance registration is now open on the MTRCCA website.

Field Development/Maintenance:

Completed since last meeting:

- Installed fire extinguisher outside (back of container)
- Remove remaining stumps in runway
- Install giant scale starting stations
- Add rock to carport area (free rock) Installed first aid box outside

Remaining:

- Remove rocks and other debris in east runway perimeter
- Add "X" to runway ends (do after erosion control is complete)
- Install sign with field's address and emergency responder phone numbers; Dick T. to have sign made after details are finalized – maybe have an exterior waterproof display case? Include AMA Safety Code within?
- Fix Runway area erosion and seed (\$2,500 budget left)
- Add rock to entrance
- Relocate pilot stations
- Paint rest of container

Airplane Setup for Gerry R.:

Have an e-Flite 1.2m BNF T-28 with three batteries and charger. Will be presented at an upcoming meeting if Gerry is available.

Charging Station:

John D. advises that we are all set for the installation of the solar panels. Weather permitting, they will be installed next week. Once they check out as operational the temporary batteries will be replaced with the permanent solar batteries.

TN Veteran's Home Presentation/Field Visit:

This event will be rescheduled for the fall when the temperatures are lower. Dick T. and Richard R. to coordinate the rescheduled event.

Continued...

August Meeting Minutes (cont.):

Carport and Container Lighting:

Tim D. volunteered to evaluate the use of LED strip lighting for both applications.

New Business:

Revised Safety and Flight Rules:

Revised rules were presented, discussed, and agreed to by members. The rules will be published on the club's website and emailed to all members.

Security Cameras:

The installation of security cameras at the field was discussed. It was agreed that we would do some evaluation and testing before making a decision.

August Meeting Location:

The September meeting will be held at O'Charley's Restaurant.

Meeting adjourned at 7:56pm.

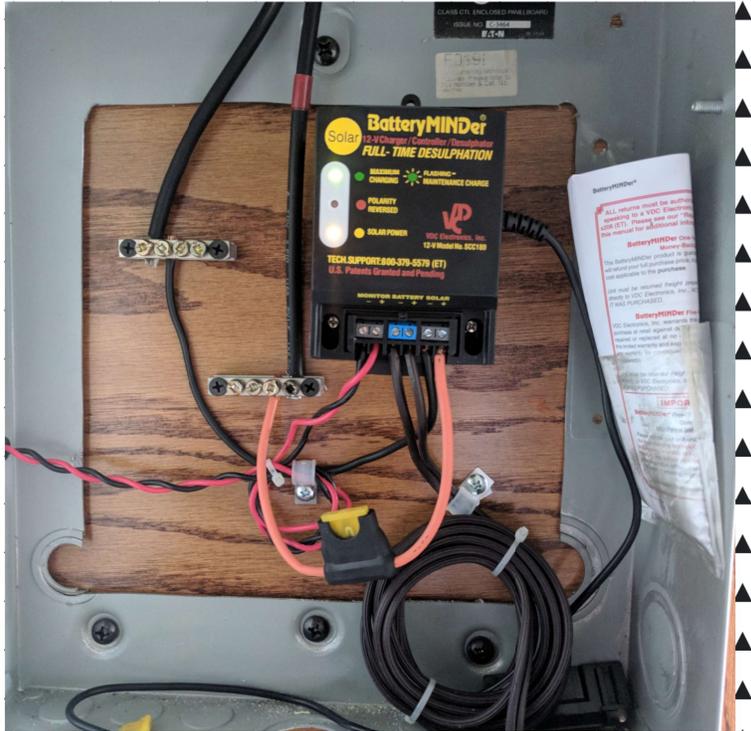
Photos from Field August '18



Club Meeting !

September 6th 6:00 PM @ O'Charley's

Solar Charge System



NMAD Charity Fly-In



MID - TENN RADIO CONTROL CLUBS ASSOC **GIANT REGIONAL SWAP MEET**

Sat. 3 Nov, 2018

Antioch United Methodist Church

41 Tusculum Rd. Antioch, TN

Swap Meet Hours: 8:00 AM - 1:30 PM



Reserve Your Tables www.mtrcca.org

Over 100 + 8 ft Tables.

Tables (1-3) \$20.00 (4 -7) \$17.00, (8+) \$15 Chairs \$2 (or bring your own)---Buyers - \$6 Large Parking Lot FREE PARKING! - Easy Access - Door Prizes.

For additional info:

don_lewis@comcast.net

Congratulations to Tim

in the Air

Membership news and updates
from AMA Headquarters



2018 Flying Site Grant Recipients Announced

This year, AMA awarded more than \$28,000 to clubs that participated in the Flying Site Development Improvement Grant Program. Congratulations to all 39 clubs that received grant money, and best wishes for a successful 2018 flying season!

To review the policies and procedures for the program, visit www.modelaircraft.org/membership/clubs/flyingsitegrants.aspx. The application process for 2019 grants will start soon.

The following clubs were awarded grants in 2018:

- Jersey Sky Devils, Inc.
- North Country Flying Tigers
- North Canton RC Club Inc.
- Laurel Highlands MAC
- Blue & Gray Miniature Aircraft Squadron
- Berks County Aero Modelers
- Rivanna RC Inc.
- Fluvanna County RC Flying Club
- Kinston Aero-Modelers
- Cumberland Flyers
- Daytona Beach RC Association
- Ocala Flying Model Club
- Middle Point R/C Flyers
- Chain O' Lakes Eagles
- RC Sport Flyers
- Indianapolis Westside R/C Modelers
- Sedalia RC Flyers
- Terre Haute RC Club
- Greater St. Louis Modeling Association
- Spirits of St. Louis RC Flying Club
- Flying Pilgrims
- Traverse Area Model Pilots Society
- Rock River Aero Modelers Society
- Red Stick Radio Control Flying Club
- Austin RC Association
- Texas City RC Club
- Brookings Aeromates
- Magnificent Mountain Men Inc.
- Smoky Hill Model Flying Club
- Casa Grande RC Flyers
- Chula Vista Model and RC Club
- Canyon Crosswinds
- ... RC Flyers
- Desert Eagles RC Flying Club
- Douglas County RC Flyers
- Boise Area Radio Kontrol Society
- Sidney Plane Folks
- Rogue Valley Flyers
- Lake County Modelers & Flyers Association

AMA Thanks Its Lifetime Supporters!

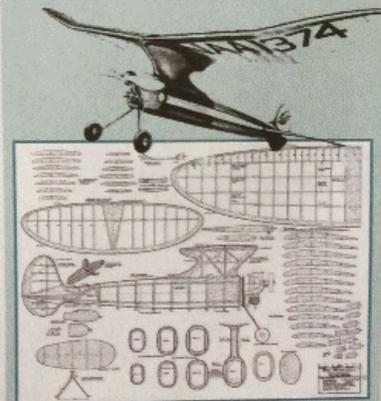
The Academy of Model Aeronautics recently welcomed Life Members John A. Osborne, Martin TN; Clark Schierle M.D., Western Springs IL; Jason Doran, Wrightstown WI; Paul A. Blais, Hampton VA; Daniel H. Sorensen, Reno NV; Nicholas

Timothy W. Dewitt, La Vergne TN; Gary M. Moon, Austin TX; Alexander L. Morgan, Santa Cruz CA; Shaun Encinias, Indio CA; Mark Bellamy, Sisters OR; Garrison Turner, Parker CA; Hong T. Quach, Cornelius OR; Glenn O. Ryberg, Winchester CA; Joe Coker, Forest Park GA; and Paul M. Brooks, Roseville CA.

For information about becoming a Life Member, contact AMA Headquarters at (800) 435-9262.

—AMA Membership Department

THE NORTHROP FILES



The AMA Plans Service houses all plans formerly sold through *Model Builder* magazine, Bill Northrop's

Congratulations to Us

The Zipper, designed by Bill Northrop, introduced the pylon to Free Flight competition. The 58-inch aircraft was gas powered.

You can order plans for the Zipper, plans number 1073OT, for \$13 by calling AMA Plans Service at (800) 435-9262, extension 507, or via email at planservice@modelaircraft.org.

Article

Model Airplane Fuel Systems Explained

Debra Cleghorn



Radio control model airplanes rely on two basic systems to fly, the radio system and the power system (excluding gliders). When you have a nitro-burning glow engine if your engine loses its fuel supply, you'll find yourself in a dead-stick situation with a plane that wasn't designed to be a glider. To prevent dead-stick landings, the first steps are taken at the workbench while you install the fuel tank and other necessary fuel-system components. Though this is an easy task for experienced builders, newcomers may find it a bit of a challenge. This article will highlight some of the basics of the fuel components that feed your model's engine and will make all that plumbing more understandable.

THE BASICS



Fuel tanks come in all shapes and sizes.



Fuel filters are worth their weight in gold! Clean fuel means no trash in the tanks.



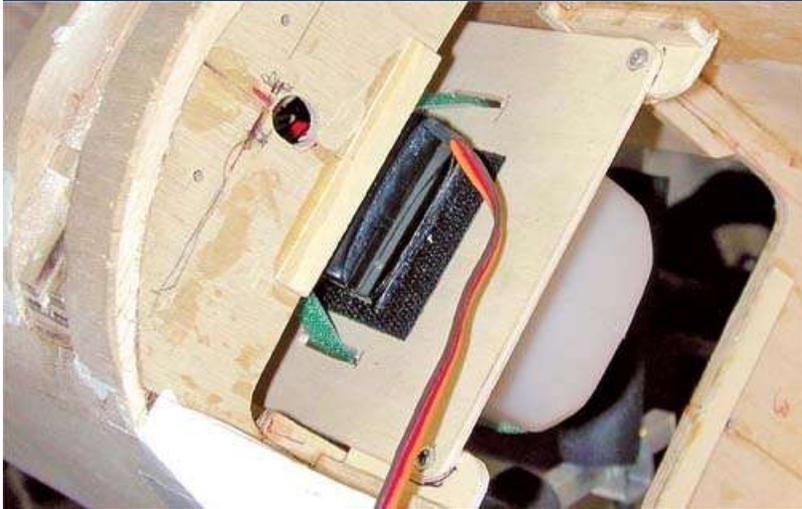
Whenever possible, pad your fuel tank with foam rubber-it helps prevent “foaming.”

Just like the family car, the fuel tank contains the engine’s fuel supply. The tank is connected to the engine’s carburetor with flexible fuel line (plastic tubing), and a rubber stopper seals it. For a tank to operate properly, it must have a vent line that allows air to enter the tank as fuel is drawn out. It relieves the vacuum left in the tank. Model airplanes don’t always fly straight and level. To allow the fuel to flow at different attitudes, the tank has a flexible internal pick-up tube. A heavy “clunk” fitting is attached to the end of the pick-up tube to always keep the end of the tube at the lowest part of the tank.

If the pick-up tube wasn't flexible, once the fuel level dropped below the pick-up tube, the supply of fuel would stop and the engine would die.

Lengths of brass tube pass through the tank's rubber stopper, and the fuel lines that carry the fuel to the engine slip over the ends brass tubes. The rest of the fittings and accessories help the fuel system work properly and make it easier to maintain and operate.

BAD VIBES



Making your fuel tank easy to get to makes maintenance of your fuel system easier to do.



The removable fuel tank tray can also secure your battery packs.

One common problem that can lead to your engine running lean is fuel foaming in the tank. Vibration causes this and it forms tiny bubbles in the fuel. The bubbles cause erratic fuel flow and the air in the bubbles causes the fuel mixture to lean out. The simple solution to this is to make sure to properly pad your fuel tank with soft foam rubber. Also, make sure that after time, you check the padding to see if any part of the unprotected tank is coming in contact with the model's inner structure like a former or engine mount bolt or nut. I prefer to use rubber bands to hold the foam padding in place but you can also use tape. Make sure you don't compress the foam too much as this will lessen its

ability to isolate the tank from the vibration. Regular maintenance is key to keeping your entire model in top condition. One way to keep a better eye on your fuel system is to make the tank removable. When there is no fuel tank compartment hatch, I make a slide-in tank tray from lite-ply and a matching set of rails inside the fuselage. This way, I can slide the tank into place and secure it with a couple of small screws. You can save more space by attaching your battery pack to the tray as well.

This system works extremely well, especially with large airplanes.

To choose the correct size fuel tank for your airplane, check your kit's directions or check the engine manufacturer's recommendations. You'll want a tank that can hold enough fuel for a 15 to 20 minute flight.

TWO-LINE SETUP



Adding a fuel filter to your fuel supply line gives you double protection.

A two-line fuel system is the simplest and almost foolproof way to go. The setup requires only two pieces of brass tube, a clunk, a rubber stopper and a short length of silicone tubing. Bend one tube 90 degrees to form the vent and insert it through the stopper. The vent lets outside air in as the fuel is drained out, and it acts as an overflow indicator when you fill the tank. The second tube is the fuel-supply for the engine and the interior pick-up tube and clunk are attached to it. To fill the tank, the fuel supply tubing is removed from the carburetor and attached to your filler pump line. When the tank is full, you simply reattach the line to your carburetor. The vent line is often attached to a pressure fitting on the engine's muffler. This arrangement helps pressurize the tank to enhance fuel flow to the engine.

2-line setup

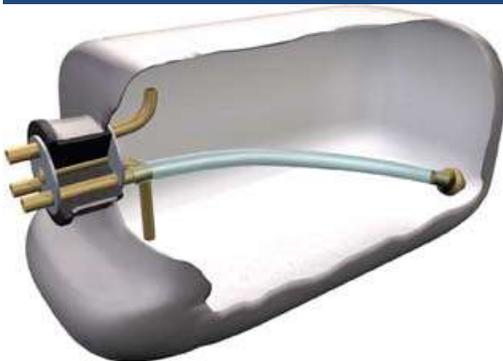


The simplest and most trouble-free setup is a two-line tank.

THREE-LINE SETUP

In a three-line tank, the setup is just like for a two-line arrangement, but a third line is added and used to fill the tank. The third line doesn't need an interior pick-up line and clunk, but many do add them to allow the removal of fuel at the end of the day. Before running your engine, you must seal off or cap the third line to prevent fuel from leaking out. Fuel line plugs called "Fuel Dots" are available commercially to do this, but you can also use a tight-fitting machine screw or a short piece of brass rod material as well. In a pinch, you can use a one-inch length of dowel.

3-LINE SETUP



Three-line tank setups allow convenient tank filling without removing the fuel line from the engine.

TROUBLESHOOTING

Properly installed, your glow engine fuel system will last a very long time and may never need to be changed. In a hard landing, however, some of its parts may be dislodged or a line can become kinked or pinched. Here are some common fuel-flow problems and fixes.

After a hard landing, the flexible pickup tube and clunk inside the fuel tank can be forced all the way forward. This can go unnoticed until the next flight when the tank stops delivering fuel to the engine in a nose-high attitude. To prevent this, solder a short piece of brass tube to your clunk. This decreases the pick-up tube's flexibility a bit but still allows it to draw fuel in normal flying attitudes. If your engine starts to run lean for no apparent reason, check for small pinholes in the fuel-supply lines. Check closely where ever there is a tight bend or where the fuel or line comes into contact with the firewall. To help prevent chafing at the fire-wall pass-through, drill a small hole in the firewall and use a length of brass tube in the holes. Slip the fuel lines over the brass tubes to complete the system.

If your engine begins to run erratically, debris may have gotten into your fuel system. It usually finds its way into the model's fuel tank from your fuel storage jug, and if it blocks fuel flow, your engine will die. To prevent this, use an in-line fuel filter in the fuel supply line just before the carburetor. Install another filter in your fuel-pump line so you fill your tank with clean filtered glow fuel. Add a combination fuel clunk/filter, and you have a triple defense against dead-sticks.

Updated: August 14, 2018 — 4:52 PM