

# Swift R/C Racing Products™

Thank you for purchasing our R/C product!  
It was proudly designed and manufactured in the USA.

If you should have any questions, need set-up information, or wish to give us feedback, please call 707-206-0583, or e-mail us at [Info@swiftracingproducts.com](mailto:Info@swiftracingproducts.com). Also, please check out the website, [www.swiftracingproducts.com](http://www.swiftracingproducts.com), for further information.

By building and/or racing this product the user agrees not to hold Nor-Cal R/C Products, the wholesaler, or their employees, liable for any damages or injuries caused by the use or misuse of this product.

## #MM5000 '05 Mini Mav™ 1/12 Oval Chassis Conversion Kit:

With our latest Oval offering, the '05 Mini Mav, Racers get an extremely adjustable hi-performance 1/12 scale conversion chassis for the Team Associated 12L3. (The names Team Associated, Factory Team, 12L3, and 12L4 all belong to Associated Electronics and are only used here as a description of parts.)

### Features:

The Mini Mav has a 2.5mm thick chassis plate. 2 front bumper mounting location. 2 front wheelbase locations. 2 rear wheelbase locations. 3 front body mounting locations. 2 hood body mount locations. 2 rear body mounting locations. A large range of battery mounting locations. Personal transponder mounting location in the front bumper. Holes to adjust the t-plate pivot balls while the t-plate is on the chassis. 3 mounting locations for the side shocks. 5 mounting locations for the center shock. And, a whole lot of quality and performance for the price.

### Notes:

This Chassis was designed with the serious R/C Oval Racer in mind, having experience setting up an oval car is very important. Oval racing is won in the turns, not in the straights. It's a reminder that it's the Racer who ultimately makes the car fast. Building and setting up an oval chassis correctly for your track and your driving style, are two key parts of what it takes to win.

These basic instructions are written assuming the builder has oval racing experience. If you have any questions, please call or e-mail us. We are here to help and want to insure you get the best opportunity to win with your new chassis! (Refer to the Associated instruction manual when assembling the front end, shocks, t-plate, etc ...)

The Mini Mav Chassis comes loosely framed up out of the bag. Please note where each size screw is used when taking everything apart for chassis prep (see below). Aluminum screws are not recommended for most areas of this kit. Please use the steel screws provided.

### Pay attention here:

Take the time to sand and glue the edges of all carbon fiber (graphite) parts. Round the outside edges and glue them with thin CA. This will strengthen the carbon fiber, helping it hold up to the normal stresses of oval racing.

Carbon fiber (graphite) dust is extremely harmful to your lungs. Please use common sense when working with carbon fiber. Wear safety glasses, a dust mask, work outside or in a well ventilated area. While using a Dremel tool, use a shop vac to draw away the dust. When using sand paper, sand all carbon fiber parts under running water.



## Servo mounting:

There are many different ideas on steering servo mounting. Both front to back, and left to right mounting locations vary with servo size and ideas on handling. There are pros and cons to each way of mounting the steering servo. Use whatever method you prefer. Please give the whole thing some extra thought before drilling and countersinking the Chassis.

## Crossbrace:

For the Mini Mav Crossbrace system, we use two standard braces stacked and bolted together. This will insure the Crossbrace is very rigid and won't flex when running stiff side shock springs.

Use the stand offs provided to set the height of the Cross Brace. For tuning, use Shims under the ballstuds, or IRS tall ballstuds, to raise the outside mount height of the side shocks. This will change the action of the side shocks for different tracks. Having the shocks at more of an angle, makes the action stiffer. Having the shocks at a flatter angle, makes the action softer and smoother. Experiment until you get the desired handling from the car.

There are 3 holes to mount different length side shocks on the Crossbrace. Use the holes closest to the pod for standard ASC micro shocks. Use the middle holes for the Silva Concepts micro shocks.

To use the outer holes, use RPM or Associated long ballcups, cut to the proper size, to change the length of the side shocks. Be sure to double check that the shocks are equal in overall length. Experiment until the desired handling is achieved. Lengthening the side shocks will soften the action slightly and make the pod motion feel smoother.

The Crossbrace also has two mounting locations for the rear body posts, to suit any style of body.

## Center shock holes:

For a standard micro shock, or Silva Concepts micro shock, use the mounting hole closest to the t-plate.

The center shock can be lengthened by using RPM or Associated long ballcups. (you could also use a standard 1/10 scale center shock and mount if desired.)

Once the shock has been mounted to the chassis and top plate, make sure there is at least 1/8" of pod droop when the shock is fully extended. Trim or extend the ballcup to the proper length.

Decreasing rear pod droop will decrease on throttle traction. Increasing rear pod droop will increase on throttle traction. Adjust this to fit your driving style and track conditions.

## Notes:

The **'05 Mini Mav Oval Chassis™** is rigid, so you might try a slightly softer set-up to start with, or start with the same shock, shock spring, oil, and front springs, you've been running. In either case, make small changes until you've reached your ideal set-up.

Most of the time, the chassis will be fast right away. A good set-up will often be reached with little effort, but there are other times when this is not the case. If the car turns "wicked" after installing this chassis, please take the time to check everything. Shocks binding, sticky ball cups, sticky kingpins, over tightened t-plate pivot balls, loose screws that attach the pod to the t-plate, chassis dragging, body dragging, wheels hitting the body, and more, can all drastically effect how a car handles. Please, check everything!

~Good Luck, and have *FUN*, with your R/C racing~

**Swift R/C Racing Products**



**1/12 "Mini Mav" parts list:**

#MM5000 1/12 "Mini Mav" Conversion Kit Retail \$189.99

Kit includes: Chassis, Bumper, Crossbrace x2, Nerf Wing, Bottom Pod Plate, Top Pod Plate, Motor Mount, Axle Carriers x2, Stand-offs, Center Shock Mount, Misc. Hardware, stickers & set-up sheets.

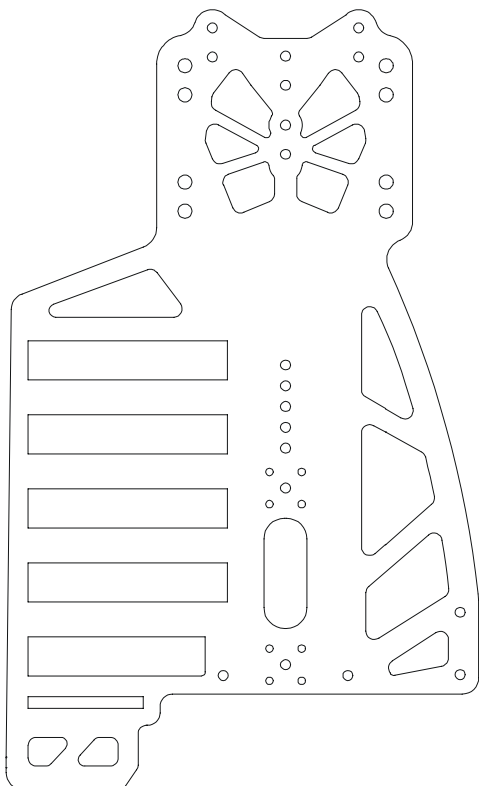
#MM5001	Mini Mav Oval Chassis	\$49.99
#MM5002	Front Bumper	\$12.99
#MM5004	Crossbrace	\$9.99
#MM5006	Bottom Pod Plate	\$12.99
#MM5008	Top Pod Plate	\$12.99
#MM5010	Nerf Wing	\$3.99
#MM5012	Center Shock Mount	\$2.99
#MM5014	Pod Screw Set	\$3.49
#MOC042204	Motor Mount	\$24.99
#MM5020	Axle Carrier	\$15.99
#MOC4046	Stand-offs	\$3.99

**MINI  
MAV**  
*1/12 Oval Chassis*

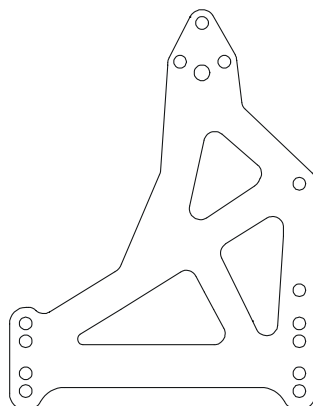
**Graphite parts from the "Mini Mav" Conversion Kit.**

**Note:** Drawings not to scale.

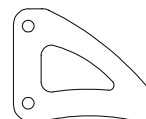
MM5001 Mini Mav Oval Chassis



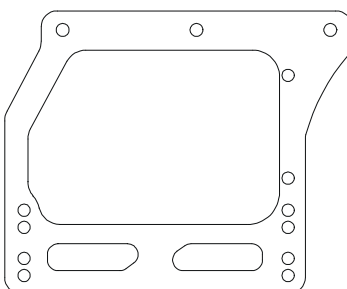
MM5008 Top Pod Plate



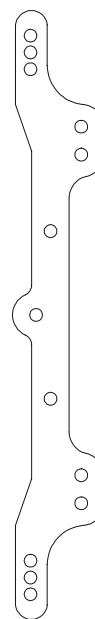
MM5010 Nerf Wing



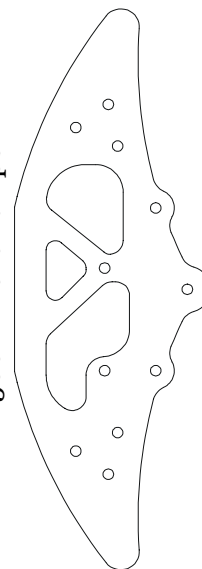
MM5006 Bottom Pod Plate



MM5004 Crossbrace



MM5002 Front Bumper



## Parts used to complete this conversion kit:

**Front End:** Associated front end kit off any 1/12 scale oval kit. There are many modifications that can, and should, be done to the stock Associated front end. SRP #3029 caster blocks are a great upgrade to start with. Please take a look at the Front End article in the "Team Tips" section of our website for more information on making the front end work smoothly.

**Servo:** Any mid-size servo will work fine. The Futaba 9650 works very well. Use SRP#3010 aluminum servo mounts.

**Center Shock:** Associated Micro VCS will work fine. A Silva Concepts shock body and end cap will work very well. A 1/10 scale shock can also be used, either HPI or Associated threaded shocks work great. Use SRP#3000 center shock mount.

**Side Shocks:** Associated Micro VCS will work fine. A Silva Concepts shock bodies and end caps will work very well.

**Axle and hubs:** Use IRS 1/12 scale axles and hubs.

**Tires:** Use your favorite brand. BSR tires work well.

**Body, mounts, and wing:** Associated body mounts work well. Use your favorite brand of 1/12 scale oval body. The McCallister Monte Carlo works very well. Thunder Racing wings work very well. The "Thunderbolt for stock and 19 turn, and the "Large One" for modified.

## Mini Mav Set-up for asphalt 19 Turn. This is a great starting set-up.

**Front Tires:** LF purple, RF purple

**Front Springs:** LF .20, RF .18

**Front and Rear Tire Dia.:** 1.78

**Caster:** LF shims 1 and 1, RF shims 1 and 1

**Camber:** As needed

**Front Kingpin Lube:** 5K

**Upper A-Arm:** LF flat, RF one hole down

**Wheelbase:** Front long, Rear long

**Rear Tires:** LR pink, RR pink

**T-Plate:** ASC .063 fiberglass

**Center Shock:** Silva, 40wt, gold spring

**Side Shocks:** Silva, 30 wt, LR blue spring, RR gold spring

Side shocks mounted in middle crossbrace holes

Center mounted on 1" stand-off, 1st hole

**Tweak:** As needed to get up off the turn smoothly

Left rear shimmed out 1/8", right shimmed out 1 thin shim

**Battery:** Mounted back and out

**Front Track Width:** 6.50"

**Rear Track Width:** 6.75"

**Body:** McCallister Monte Carlo

**Wing:** Large Thunder (ran mod the week before, didn't change it)

**Notes:** Car super smooth and fast. Drove very predictably and consistent.

