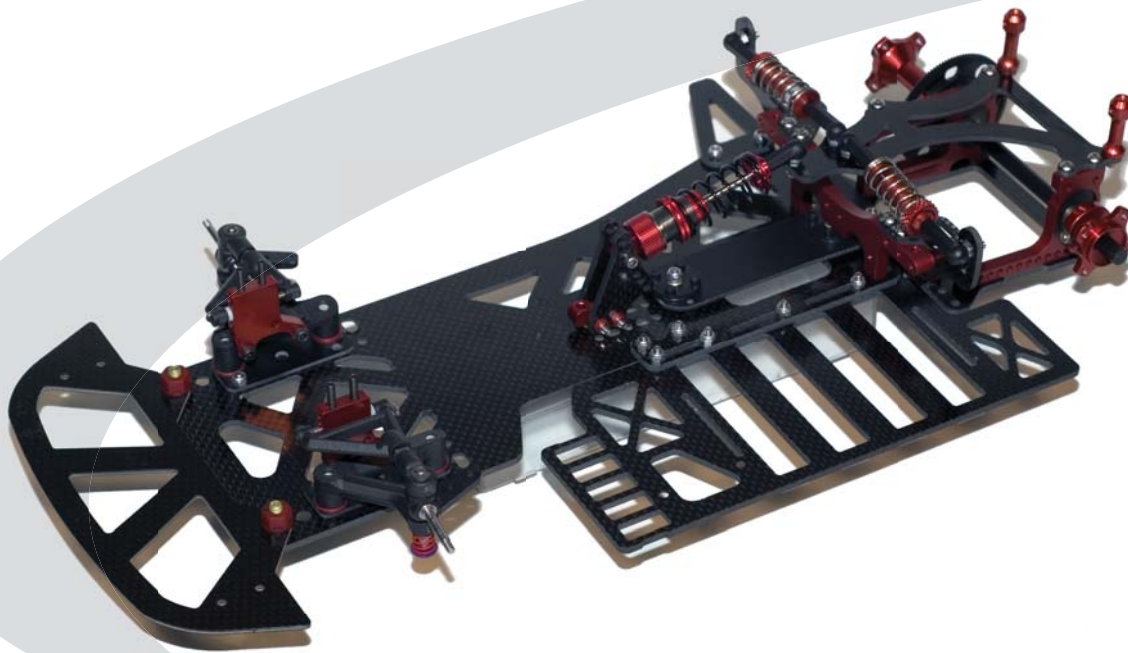




Hyperdrive Pro 3 Slider

CompetitionX
A WEB SITE FOR THE SERIOUS RACER

Introduction

Congratulations! You now own a state of the art 1/10 scale oval race car. The Hyperdrive Pro 3 Slider has gone through months of testing by our factory drivers to insure that you get a car that has maximum performance and adjustability built in. In purchasing this kit you have not only helped the hobby and sport of Oval pan car racing by supporting your local hobby shop but you have also bought the quality of a Hyperdrive Racing performance product.

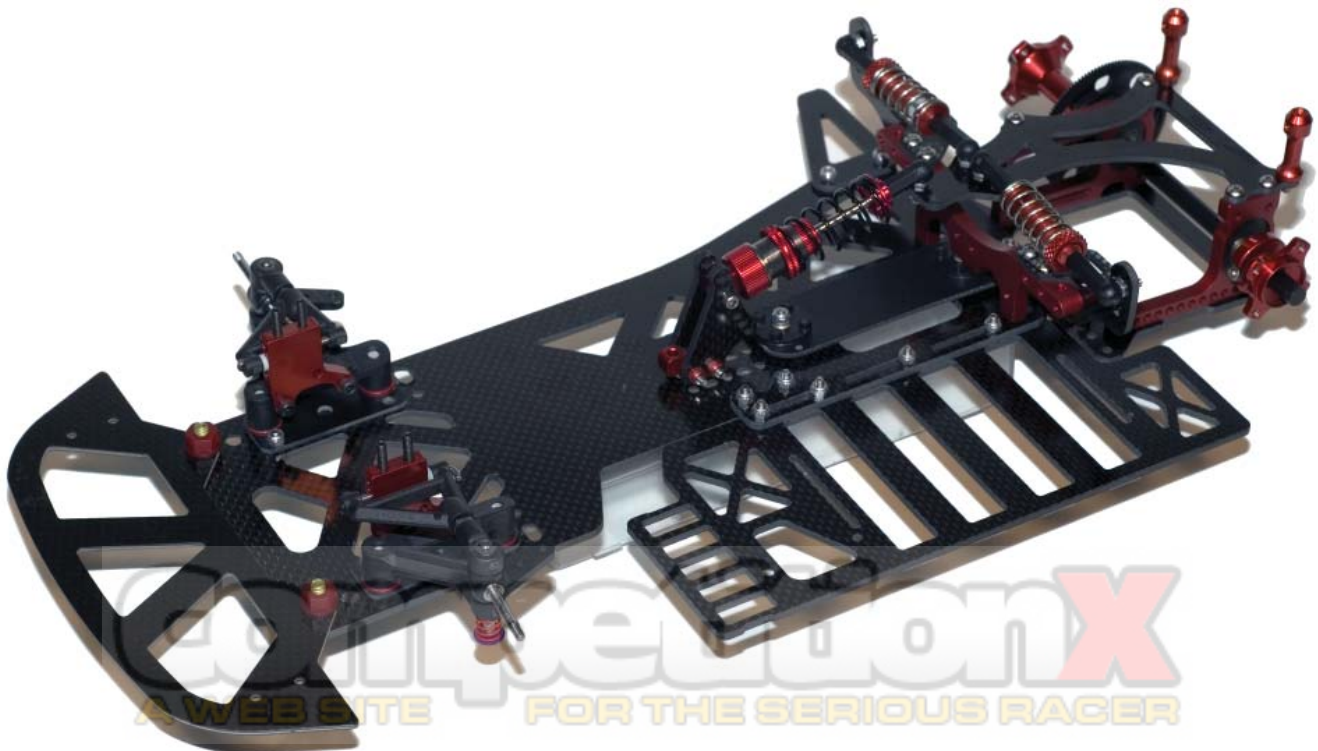
How well your car performs is dependant upon the assembly of your car kit. Take your time and assemble your car as shown in this manual. This will give you a good starting point from which you can make adjustments dependant upon the track you are racing on.

The following items are required to complete your car:

- Two channel Surface Radio
- Electronic Speed Control
- Batteries (4 cell)
- 05 Electric Motor
- Shock Oil
- Tires
- Body

Tools needed in the construction of your car:

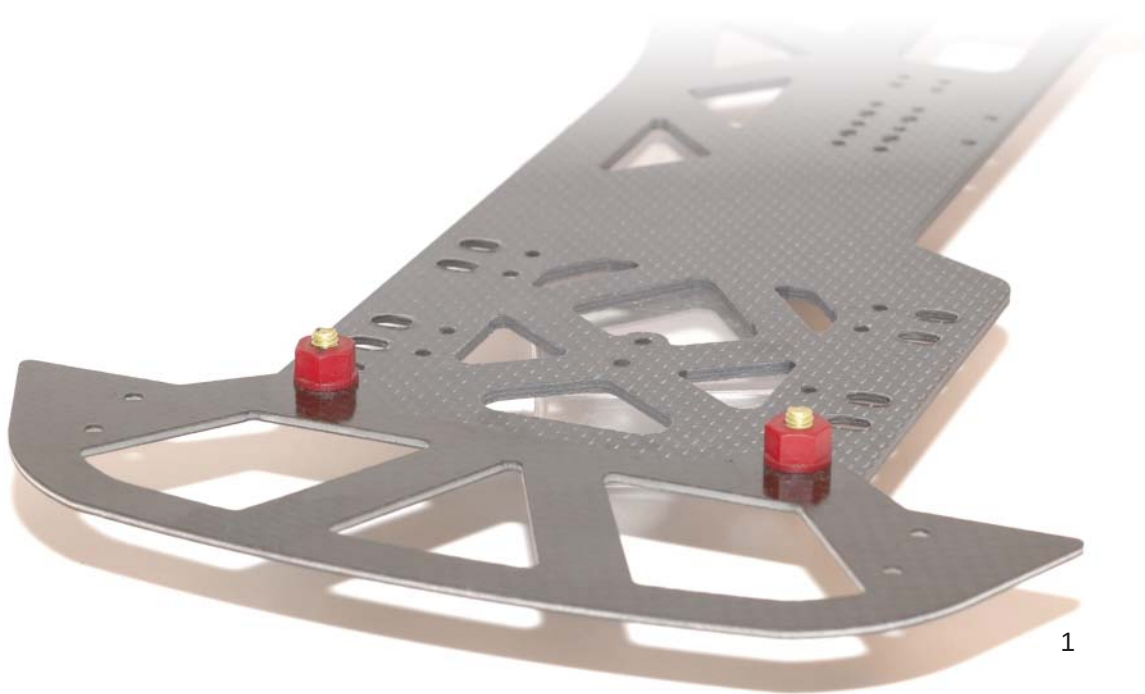
- Phillips Screwdriver
- Hobby Knife
- Allen Wrenches; 3/32, 1/16 & 0.050
- Pliers or appropriate sized Nut Drivers/Sockets



HyperdriveX
A WEB SITE FOR THE SERIOUS RACER

Step 1 - Front Bumper Installation

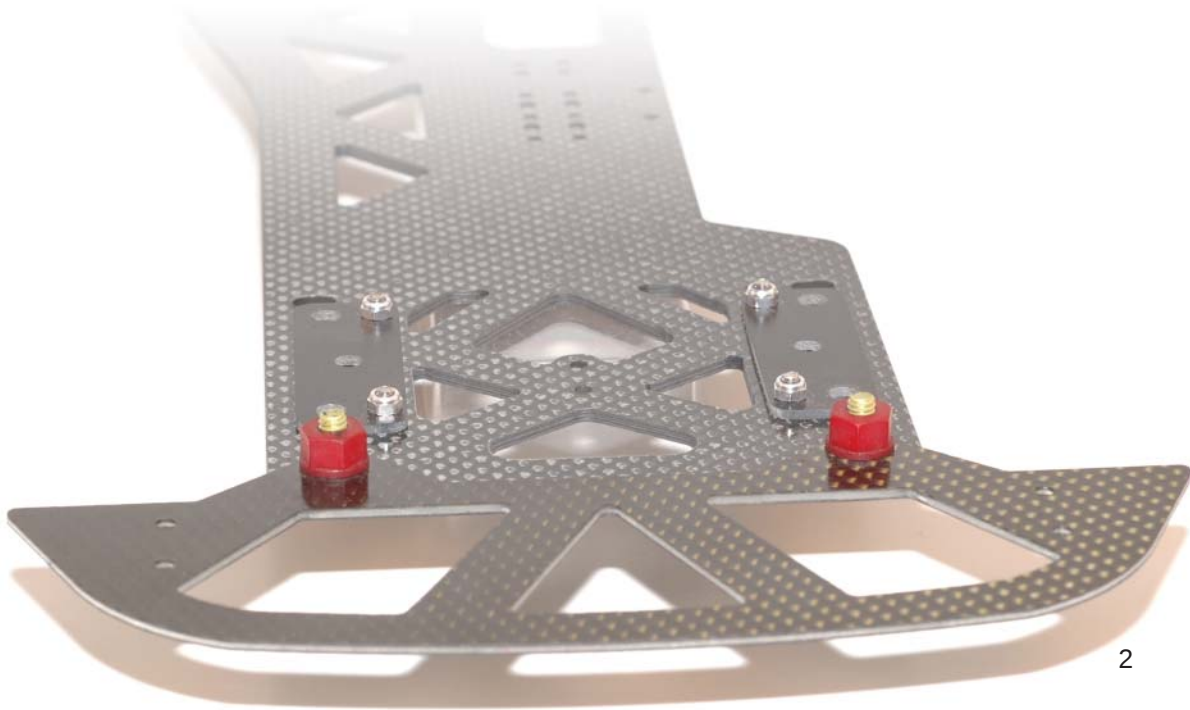
Using part numbers FB-7045 (Woven Bumper), HD-7305 (Slider Chassis) locate two 8-32 flat head screws and two 8-32 hex nuts (the 8-32 hardware is located in the bag containing the Associated #8400 Front Suspension Kit). Install the 8-32 flat head screws through the bottom of the chassis using the front bumper mounting holes. Place the bumper on top of the chassis. Using the 8-32 hex nuts, secure the bumper firmly to the chassis plate.



1

Step 2 - Locator Plate Installation

Secure the Narrow Locator Plate (LP-7050) in the front position of the mounting holes on the chassis using four 5/16" FH screws and four aluminum 4-40 lock nuts.



2

Step 3 - Front Suspension Assembly

Assemble the front suspension (8400-003) as detailed in the Associated 8400 Front Suspension Kit instruction sheet, replacing the stock plastic caster blocks with HY-8060R Red Aluminum caster blocks. Insert four 8-32 screws through the bottom of the chassis and narrow locator plate. Place a red #10 washer over each screw. Fasten the a-arms to the chassis.



Step 4 - T-Plate Assembly

Locate the T-plate (HP-1516), 2 Teflon Coated Aluminum Pivot Balls (HY-8376), 8-button head mounting screws (2-56 x 0.25" lg) and the plastic pivot housings. Place one of the pivot balls into one side of the socket. Then place the other half of the socket onto the ball and align the four screw mounting holes. Now mount the socket assemblies onto the T-bar with the four 2-56 screws. Be careful not to over tighten the screws and also note the orientation of the T-plate.

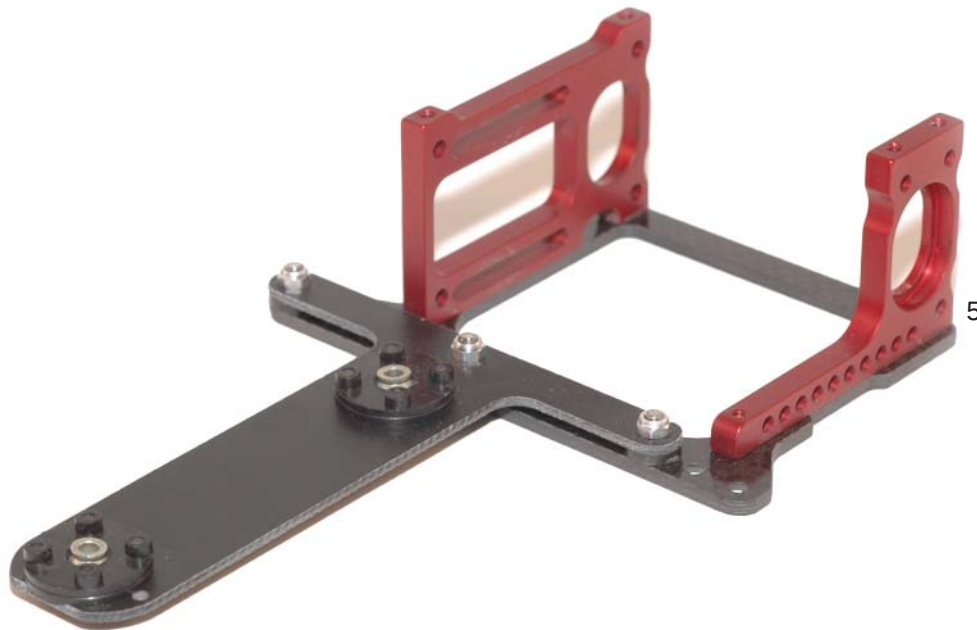
Note: when assembling the socket assemblies onto the T-bar it is very important that the pivot balls move freely in the socket housings. Not loose but smooth free movement.



Step 5 - Rear Pod Assembly

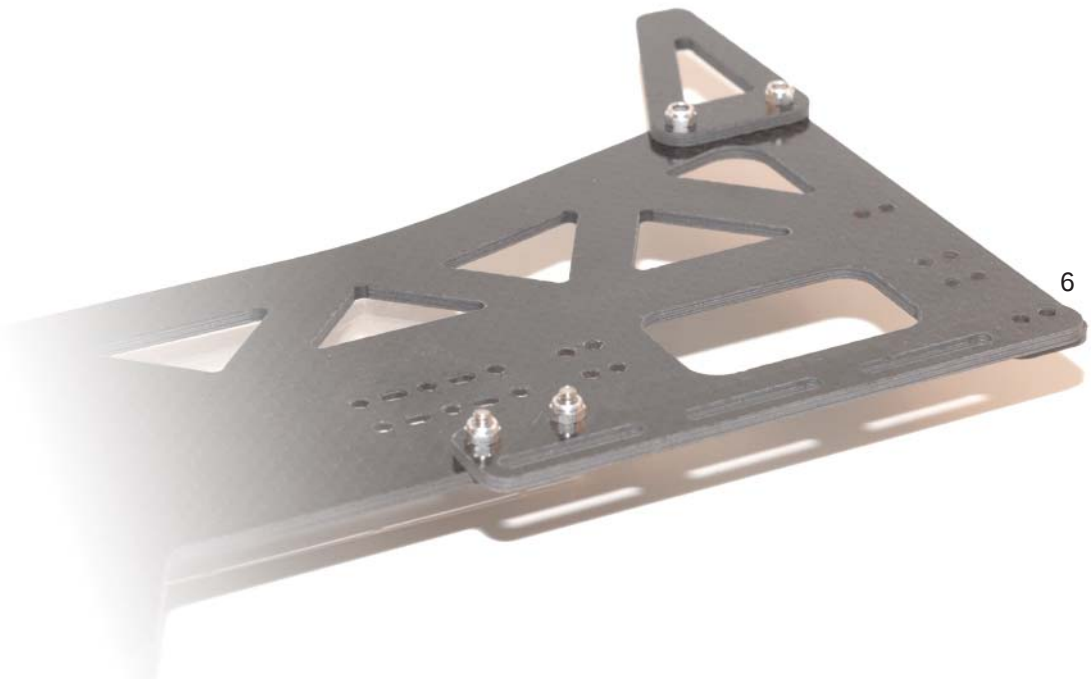
Locate the Bottom Plate (HD-7365), Right Side Pod Plate (HD-7340), Left Side Pod Plate (HD-7341), three .075 black t-plate spacers, four 1/4" FH screws, three 3/8" FH screws and 3 4-40 Aluminum lock nuts.

Insert the three 3/8" FH screws through the bottom of the bottom plate using the right most set of holes. Next, place the .075 t-plate spacers over each screw. Place the t-plate over the screws and secure the t-plate with 3 4-40 locknuts as shown in figure 5. Finally, using the 1/4" FH screws, install both the right and left side pod plates to the bottom plate as shown in figure 5.



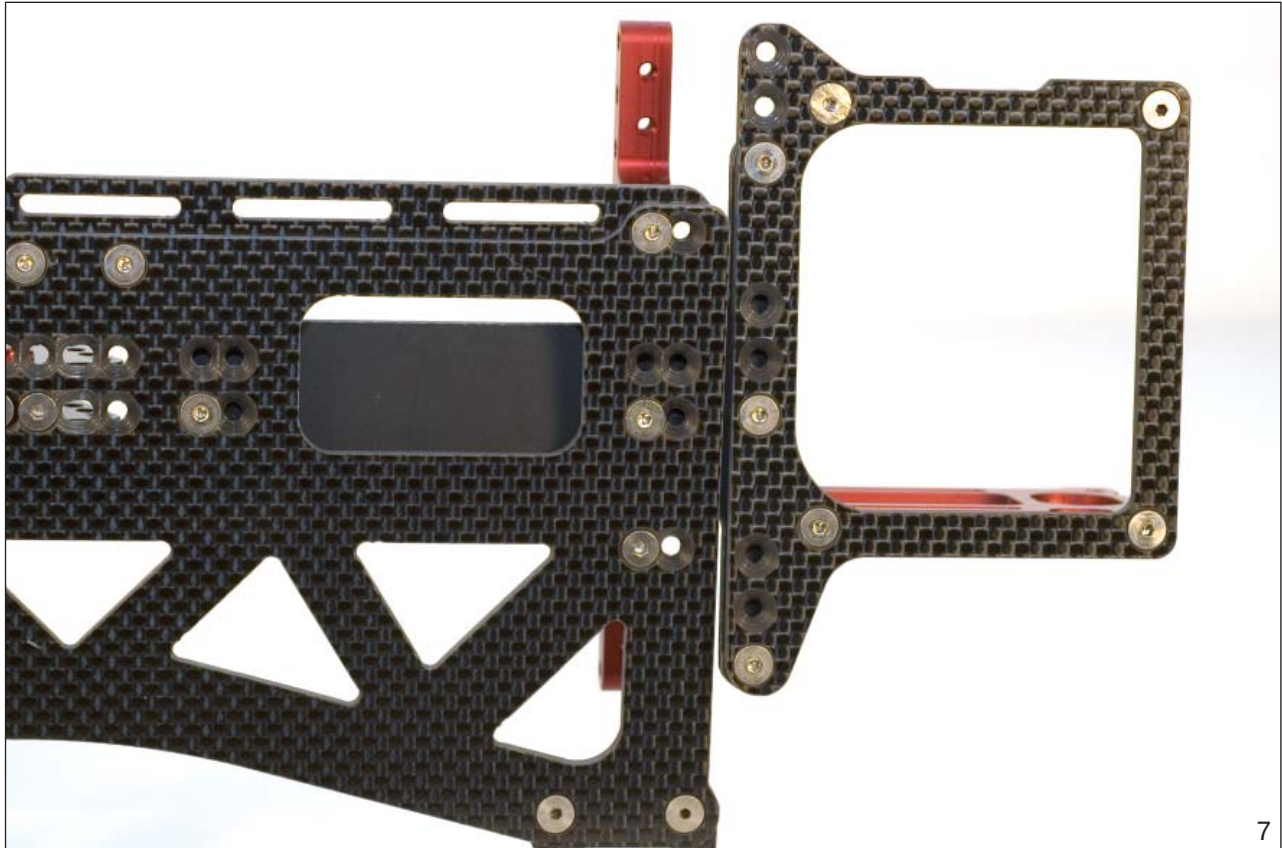
Step 6 - Battery Tray Mounting Bracket & Nerf Wing Installation

Locate the Nerf Wing (HD-7303), Battery Tray Assembly (HD-7335), two 5/16" FH screws, two 3/8" FH screws and four 4-40 aluminum lock nuts. Insert two 5/16" FH screws through the bottom of the chassis on the right hand side to mount the Nerf Wing. Place the nerf wing over the screws, and attach with two 4-40 locknuts. Next, insert two 3/8" FH screws through the bottom of the chassis on the left side as show in figure 6. Place the battery tray mounting bracket over the screws, and attach with two 4-40 locknuts.

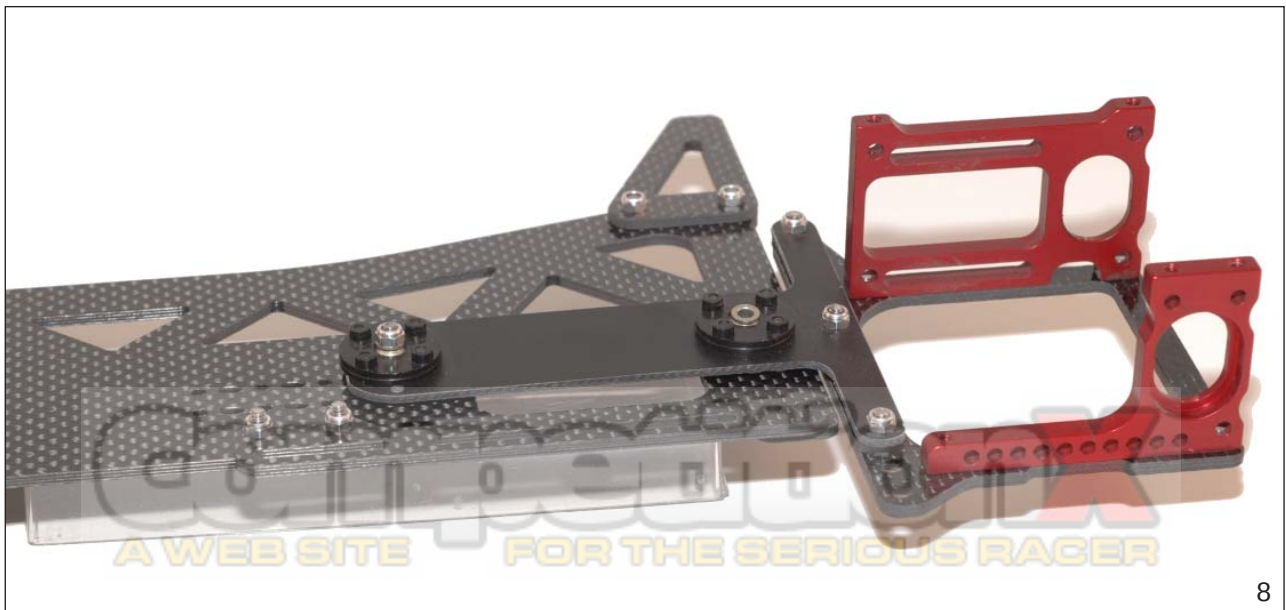


Step 7 - Pod Installation

Using the rear pod from step 5, insert one 1/2" FH screw through the bottom of the chassis. Place the front t-plate pivot ball over the screw, and secure with a 4-40 lock nut. Refer to figure 7 for proper placement.



7

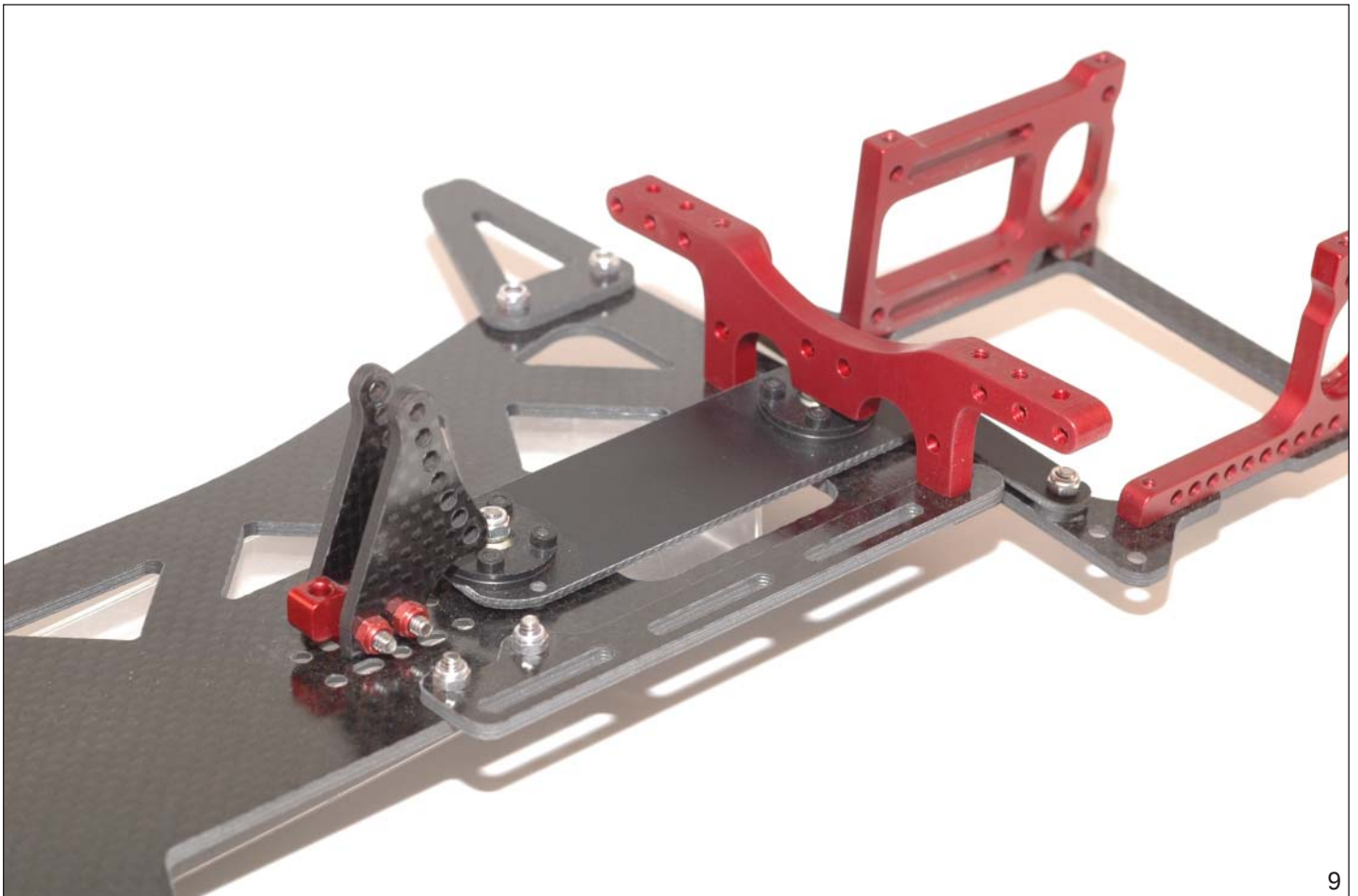


8

Step 8 - Cross Brace and Center Shock Mount Installation

Assemble the Center Shock Mount with the supplied SHC screws and 4-40 lock nuts as shown in figure 9. Secure the finished shock mount to the chassis with two 1/4" FH screws. Refer to figure 7 for proper placement, and figure 9 for the finished configuration.

Secure the Cross Brace (HD-7325) using a 1/2" FH screw through the chassis and rear pivot ball, one 5/16" FH screw in the right, and a 3/8" FH screw in the left hand side location. Refer to figure 7 for proper placement, and figure 9 for the finished configuration.

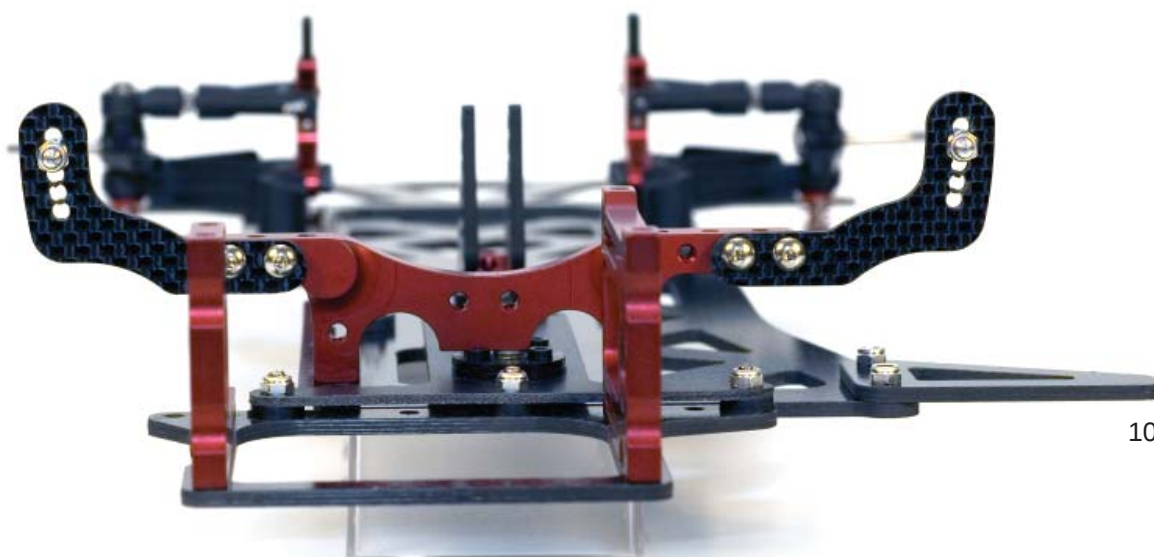


Step 9 - Body & Side Shock Mount Installation

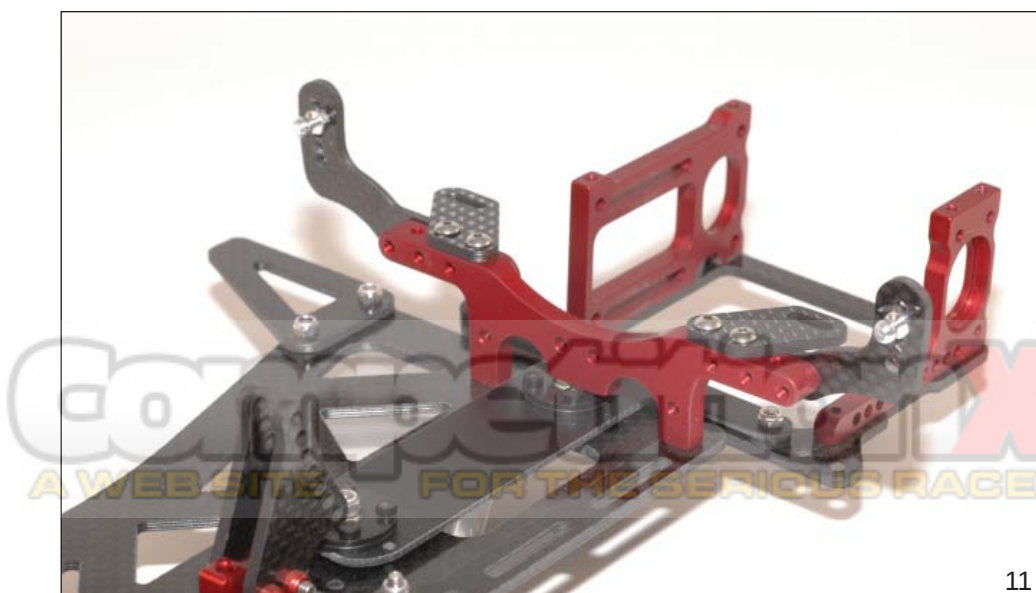
Locate the Shock & Body mounts (HD-7320), 2 Aluminum Ball studs, 8 1/4" BH screws, 4 .020 shims, and 2 4-40 lock nuts.

Install a ball stud from the front of the shock mount using the second hole down from the top. Place two .020" shims over the threaded shank of both ball studs. Secure them using a 4-40 lock nut. Repeat for the opposite side. Using two 1/4" BH screws each, attach the completed shock mount to the cross brace. Refer to figure 10 for proper placement.

Using the remaining four 1/4" BH screws, attach the body mounts to the cross brace.



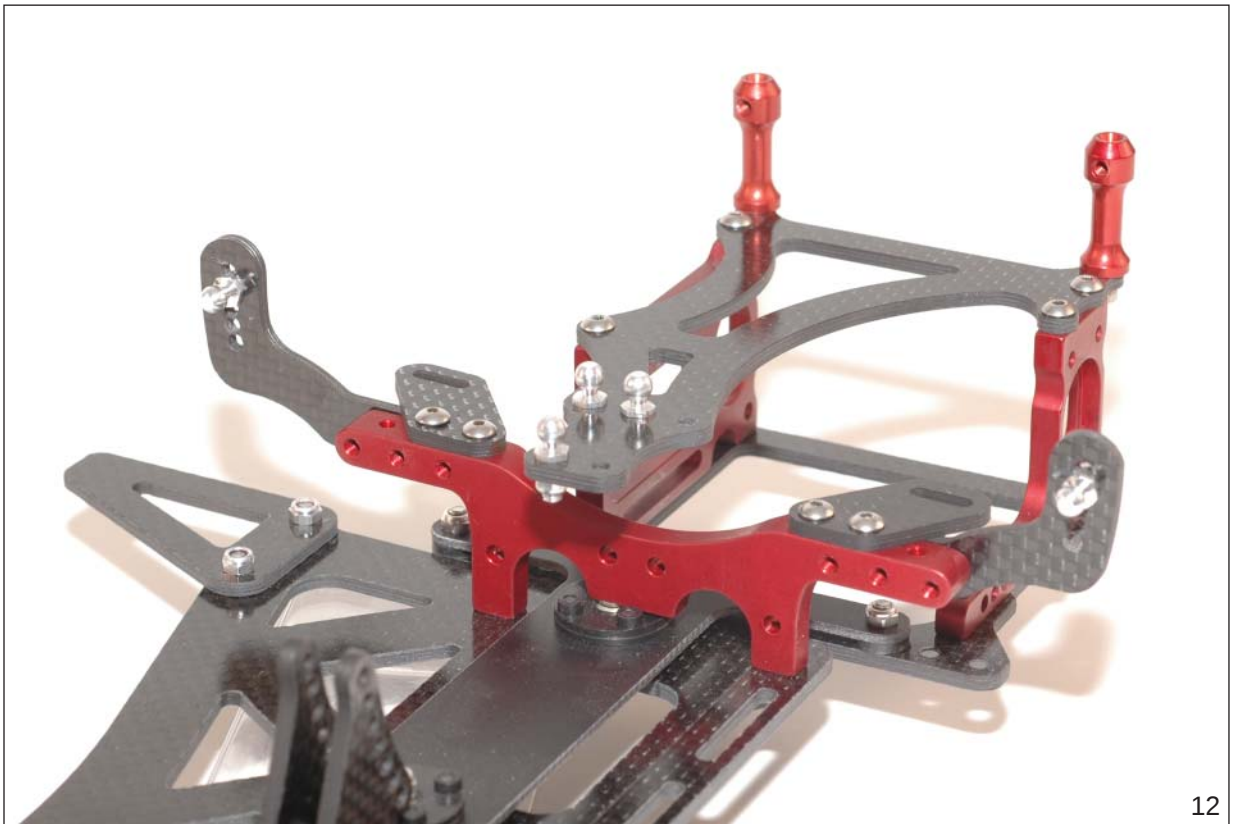
10



11

Step 10 - Top Plate Installation

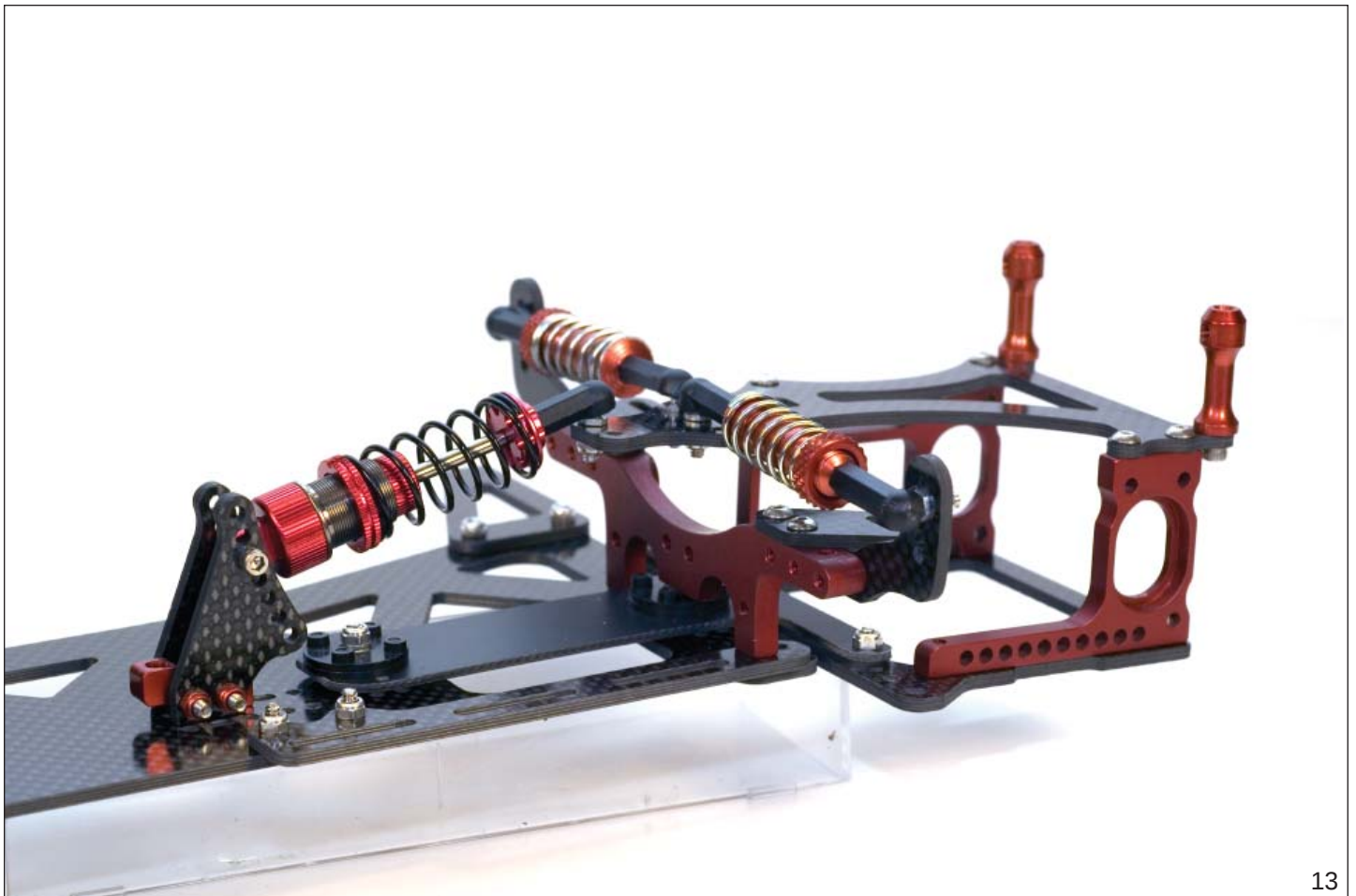
Locate the Center/Offset top plate (HD-7315), four 1/4" BH screws, three aluminum ball studs, and three 4-40 lock nuts. From the top of the top plate, insert one ball stud in the right most forward hole and secure it with a 4-40 lock nut from the bottom of the plate. Insert two more ball studs in the right most hole locations securing each with a 4-40 lock nut. Install the finished top plate onto the rear pod using the remaining four 1/4" BH screws. Refer to figure 12 as needed.



12

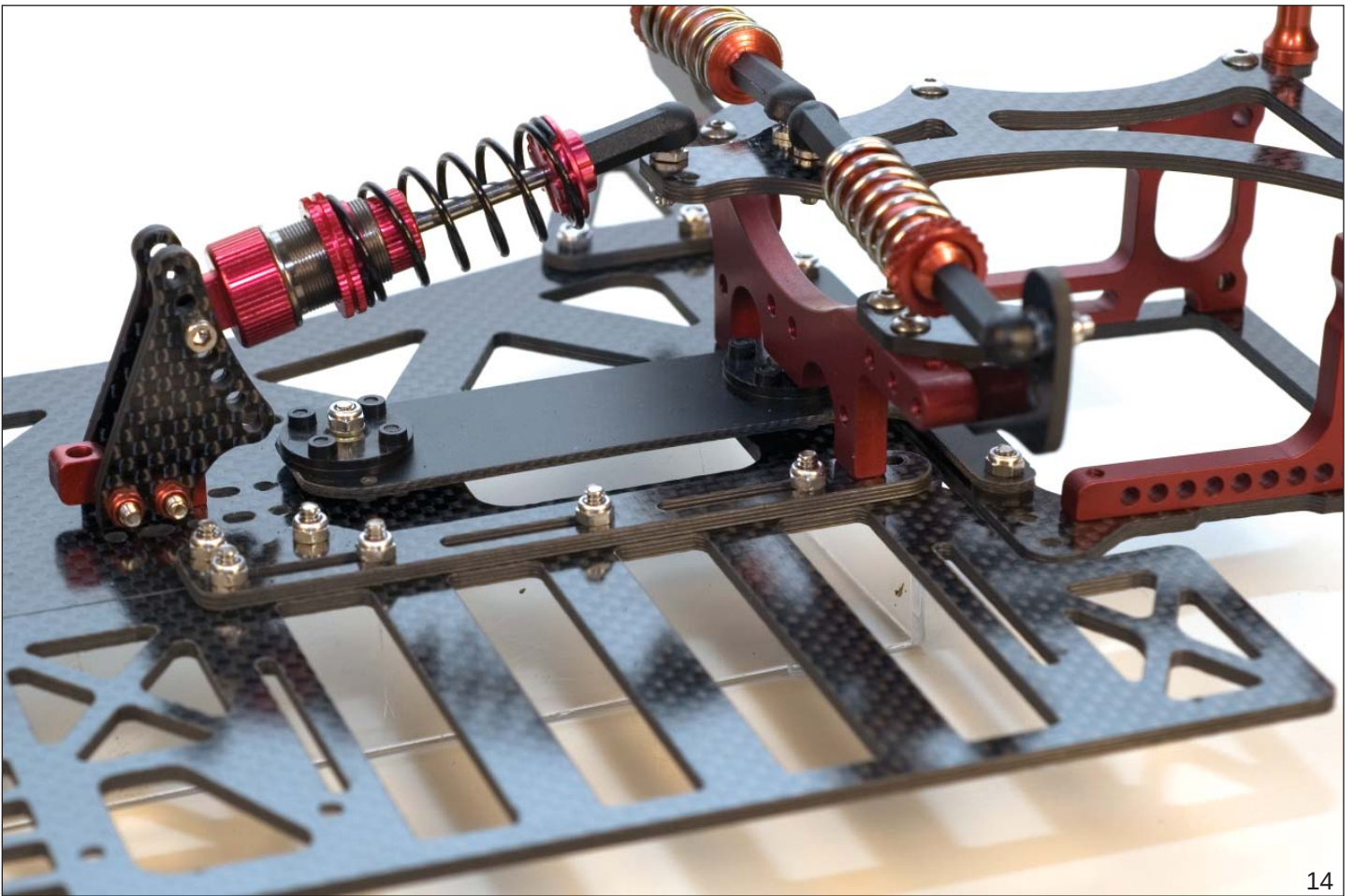
Step 11 - Shock Assembly and Installation

Assemble the Center shock (TAM-1000R) and the side shocks (SK-1000R) as per the instructions included with each shock. Hyperdrive suggests using high quality silicon shock oils in your shocks. A good starting point on the shock setup is 40 wt. in the center shock and 30 wt. in both side shocks. Also start with the softer of the provided springs. At this time also attach the side shocks onto the ball ends. Make sure to use the included Associated Heavy Duty Ball Cups on both ends of the side shocks to attain proper shock length. The center shock will require a SHC screw and 4-40 lock nut supplied with the center shock mount for installation.



Step 12 - Battery Tray Installation

Locate the battery tray, four 3/8" FH screws, and four 4-40 lock nuts. Secure the battery tray to the chassis using the FH screws and 4-40 lock nuts.

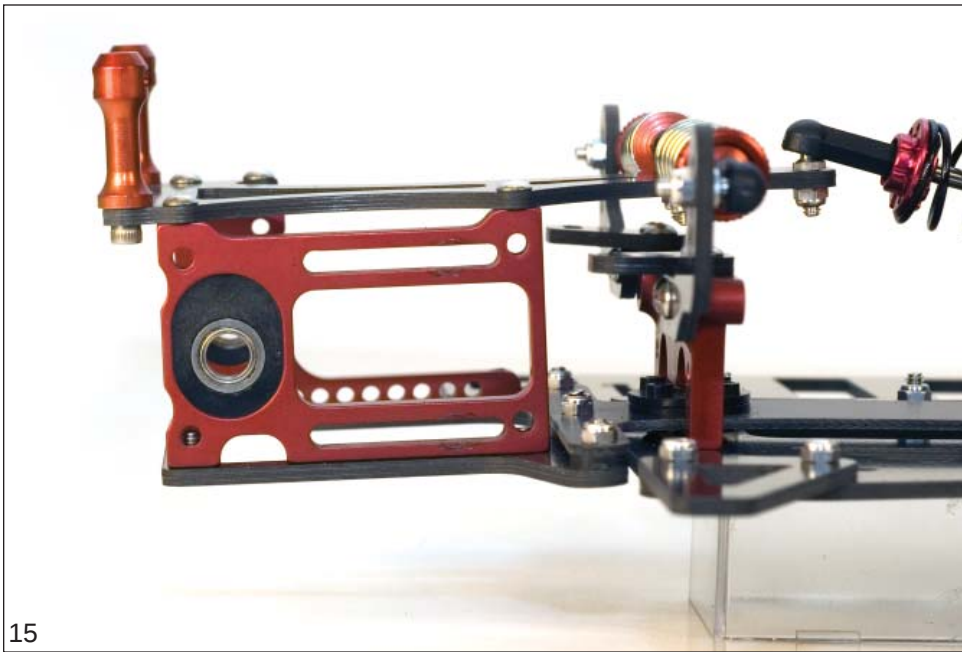


14

Step 13 - Bearing Carrier Installation

Locate the Ride Height Set (PP-2312) and choose the two adjusters with the holes in the center. Depending on the Final ride height of your car these may have to be changed. Note: Always install the same adjuster on each side of the pod in the same orientation. Failure to do this will cause the rear axle to bind and possibly destroy your bearings.

Insert the two adjusters into the Pod sides. Press them in until they are flush with the inside of the Pod sides. Install a Rear Axle / Right Hub Bearing (1/4" x 3/8" flanged) into each of the Ride Height Adjusters (see figure 14).



15

Step 14 - Rear Axle / Differential Assembly

Locate the following for the Diff and Rear Axle assembly: Rear Axle (RA-0401), Offset Diff Hub (RA-2405R), Left Side Wheel Hub (RA-2410R), Micro-Washers (RA-0403), Spur Gear Bearing (RA-0408-NF), Rear Axle and Right Hub Bearings (RA-0408), Diff Centering Set (RA-0411R), Diff balls (DB-0901), Diff Rings (DR-1002) and Spur Gear (SG-0116).

Install the Spur Gear Bearing (1/4" x 3x8" flangeless) into the center of the Spur Gear. At this time also install the Diff Balls into the outer ring of holes in the Spur Gear. Install two of the Rear Axle / Right Hub Bearings (1/4" x 3/8" flanged) into the Diff Hub. Place one of the Diff rings onto the shoulder of the axle.

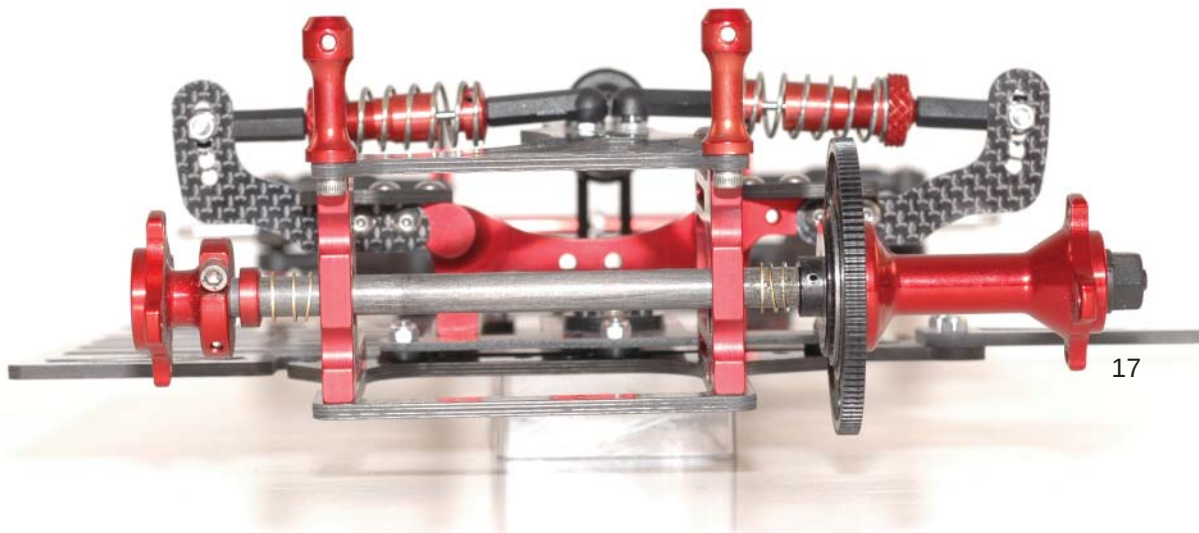
Place a small amount of diff lube on each of the diff balls installed in the spur gear and place the spur gear assembly onto the axle. Now place the second diff ring onto the spur gear and slide the Diff Hub down over the axle making sure the diff ring aligns onto the shoulder of the hub.

Install the Diff Centering cone over the end of the axle and secure it with the supplied nylon nut. Tighten just enough to hold the assembly firmly together.



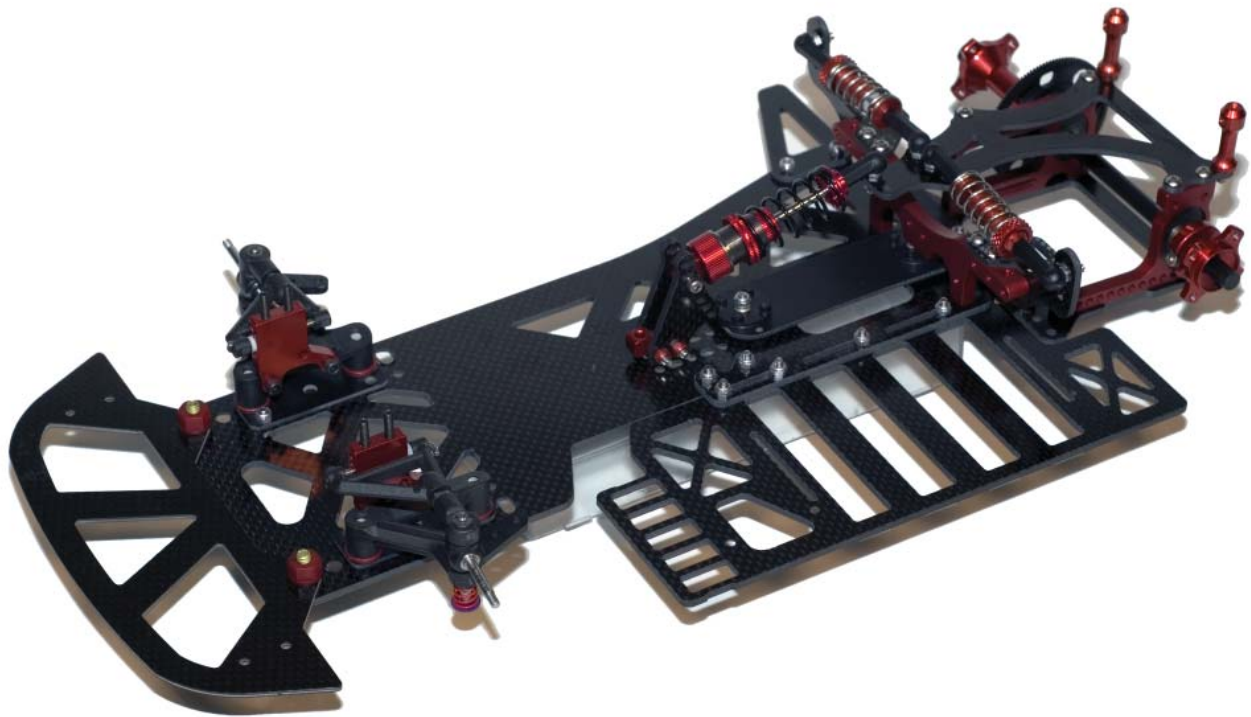
Step 15 - Axle Installation

Place three micro washers over the free end of the axle. Insert through the right bearing carrier. Place one more micro washer, and two wide axle spacers, and the left side clamping hub on the free end of the axle and tighten assembly.



Final Assembly

Finally install your electronics, Motor, Battery, Tires and Body. The location of your Steering Servo, Electronic Speed Control and Receiver are entirely up to you. Take great care when mounting these to the Chassis as their location effects the balance of the car. Also care should be taken when drilling, filing or sanding on any of the graphite components of your car as graphite dust is hazardous to your health. Tires are not included with this kit because every track and driver will have different preferences. If you are unsure of which tires to put on your car, consult your local hobby shop staff and they should be able to help you get the right combination for the track you are racing on.



CompetitionX
A WEB SITE FOR THE SERIOUS RACER