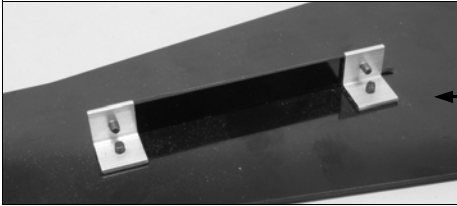




2102 NITRO FUNNY CAR KIT

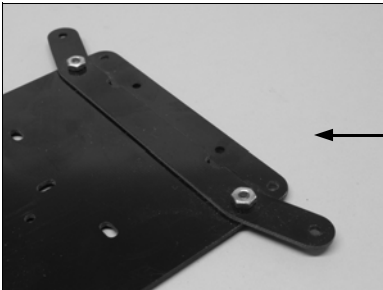
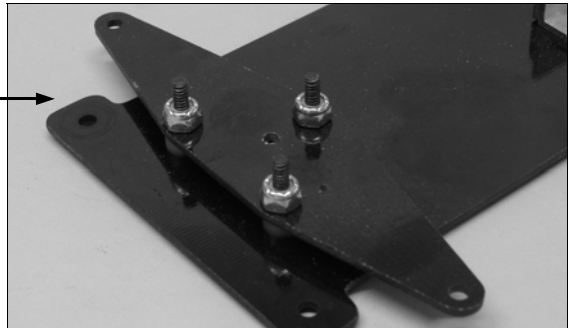
THANKS FOR BUYING RJ SPEED'S NITRO DRAG KIT . IT IS A LITEWEIGHT CAR MADE FOR STRAIGHT LINE DRAG RACING AND CAN BE BROKEN IF RUN INTO SOLID OBJECTS AT HIGH SPEED. YOU WILL NEED TO PURCHASE A .12 TO.18 SIZE SMALL BLOCK ENGINE, CLUTCH SETUP, AND EXHAUST SYSTEM. SEE OUR SEPARATE SHEET FOR INFORMATION AND SUGGESTIONS. IT REQUIRES A 2 CHANNEL RADIO WITH 2 SERVO'S .(STANDARD OR MINI SERVO'S WILL WORK FOR THE THROTTLE AND STEERING). YOU WILL NEED A SMALL PAIR OF PLIERS, AND A 1/4" WRENCH OR NUTDRIVER. HEX WRENCHES TO FIT THE SOCKET HEAD SCREWS ARE INCLUDED . YOU WILL ALSO NEED PAINT FOR THE LEXAN BODY AND WING, AS WELL AS NITRO FUEL FOR THE ENGINE. TAKE YOUR TIME WITH THE ASSEMBLY TO MAKE SURE IT IS DONE RIGHT. REFER TO THE WRITTEN INSTRUCTIONS , PICTURES, AND EXPLODED VIEW DRAWINGS.



STEP 1 OPEN BAG 1 INSTALL THE ALUMINUM ANGLES AND CHASSIS BRACE TO THE CHASSIS WITH FOUR 1/4" SCREWS

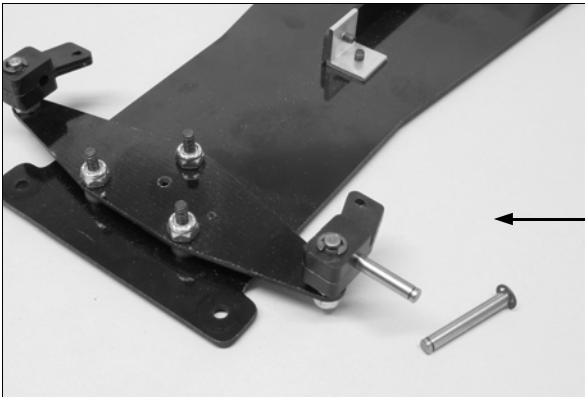
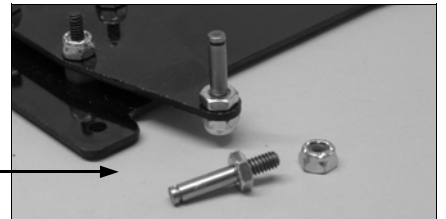
STEP 2 OPEN BAG 2 INSTALL THREE LONG SCREWS THRU THE FRONT OF THE CHASSIS

INSTALL A SPACER ON EACH SCREW AND ADD THIN ONES ON THE FRONT TWO. ADD THE AXLE PLATE AND RETAIN WITH LOCK-NUTS.

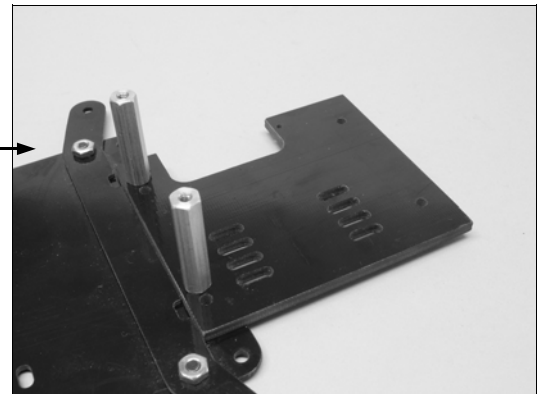


STEP 2A INSTALL THE REAR BODY MOUNT NEAR THE REAR OF THE CHASSIS WITH TWO 1/4" SCREWS AND NUTS

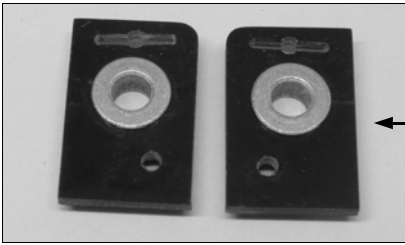
STEP 3 OPEN THE KINGPIN BAG (INSIDE BAG 2) INSTALL A THIN NUT ON EACH KINGPIN, INSERT IT INTO THE END OF THE FRONT AXLE PLATE, ADD A LOCKNUT AND TIGHTEN, REPEAT FOR THE OTHER SIDE.



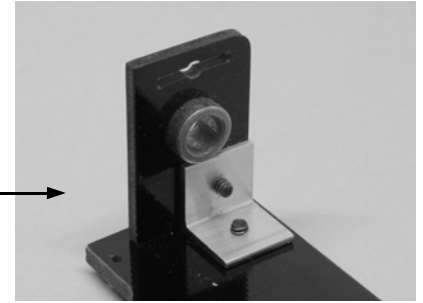
STEP 4 PUT A DROP OF LIGHT OIL OR SILICONE LUBE ON EACH KINGPIN AND INSTALL A STEERING BLOCK ON EACH ONE WITH THE ANGLED PORTION POINTING IN. RETAIN EACH ONE WITH AN E-CLIP. SNAP AN E-CLIP ON ONE END OF EACH STUB AXLE AND PUSH THEM INTO THE STEERING BLOCKS FROM THE INSIDE.



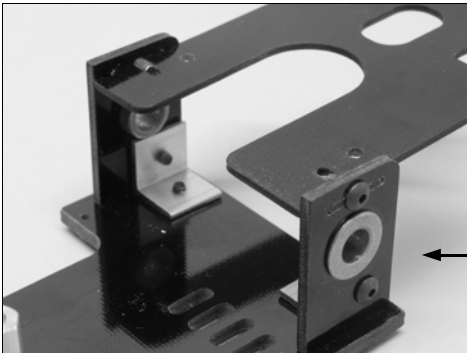
STEP 5 OPEN BAG 3. ATTACH THE NITRO BOTTOM PLATE ON THE REAR OF THE CHASSIS WITH TWO LONG SCREWS(3/8). THREAD THE ALUMINUM THROTTLE PLATE SUPPORTS ONTO THE SCREWS AND TIGHTEN THEM. NOTE THAT THERE ARE TWO SETS OF HOLES IN THE PLATE SO THAT YOU CAN CHANGE THE REAR OFFSET AS NEEDED ONCE YOU INSTALL YOUR ENGINE .



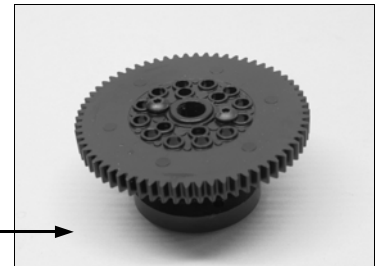
STEP 6 PRESS AN OILITE BUSHING INTO EACH OF THE REAR AXLE MOUNTS AS SHOWN. NOTE THAT BOTH MOUNTS ARE ALIKE AND THE ROUNDED TOP SIDE OF EACH ONE WILL GO TO THE REAR OF THE CAR. THE LARGE PART OF THE BUSHING SHOULD BE TO THE OUTSIDE WHEN YOU MOUNT THEM.



STEP 7 ATTACH ONE AXLE MOUNT TO THE BOTTOM PLATE WITH AN ALUMINUM ANGLE BRACKET AND TWO 1/4" SCREWS. DO NOT TIGHTEN.



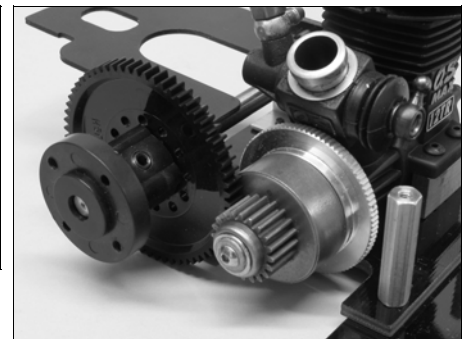
STEP 8 SLIDE THE FRONT OF THE REAR TANK PLATE INTO THE SLOT AT THE TOP OF THE AXLE PLATE YOU HAVE MOUNTED, THEN ADD THE OTHER AXLE PLATE AND ALUMINUM BRACKET AND TIGHTEN ALL. NOTE THAT THE PLATE IS ANGLED SLIGHTLY HIGHER AT THE REAR. ADD TWO SCREWS THRU THE AXLE PLATE AND INTO THE TANK PLATE.



STEP 9 OPEN BAG 4 ATTACH THE GEAR TO THE WIDER HUB WITH TWO 3/8" LONG SCREWS . IT CAN BE MOUNTED WITH THE FLAT SIDE IN OR OUT AS NEEDED TO GET IT TO LINE UP WITH THE CLUTCH BELL. SLIDE THE AXLE THRU THE HUB UNTIL THE END IS EVEN WITH THE TIRE SIDE OF THE HUB. INSTALL TWO SETSCREWS AND TIGHTEN VERY LIGHTLY.

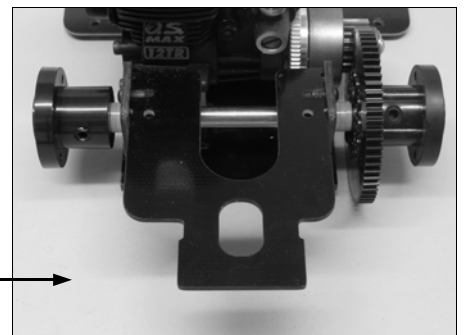


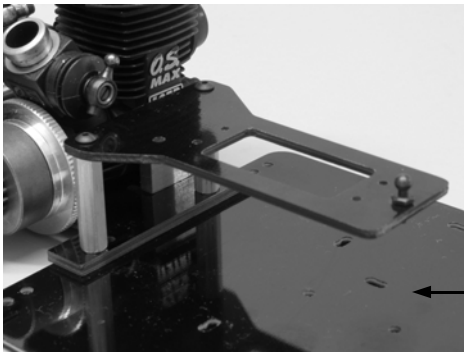
STEP 10 OPEN BAG 12 INSTALL YOUR CLUTCH ONTO YOUR ENGINE AND ATTACH THE ALUMINUM ENGINE MOUNTS TO THE ENGINE WITH FOUR 1/4" CAP SCREWS AND THIN STEEL WASHERS. IT MIGHT BE A GOOD IDEA TO USE A SMALL AMOUNT OF REMOVABLE LIQUID THREAD LOCK TO PARTS THAT WILL-CONNECT TO THE ENGINE . IF YOU ARE USING A PULLSTART ENGINE , YOU MAY NEED OUR #5145 SPACER AND SCREW KIT TO RAISE THE ENGINE TO CLEAR THE PULLSTART.



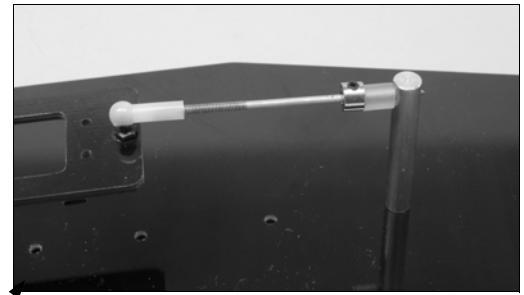
STEP 11 INSTALL THE ENGINE ON THE BOTTOM PLATE WITH FOUR 3/8" SCREWS AND THICK WASHERS. SLIDE THE AXLE ASSEMBLY THRU THE BUSHINGS AND MESH THE GEARS SO THAT THERE IS A SMALL AMOUNT OF PLAY BETWEEN THE GEARS, THEN TIGHTEN THE MOTOR SCREWS. MAKE SURE YOU HAVE THE ENGINE STRAIGHT OR THE REAR SLIGHTLY FORWARD.

STEP 12 REMOVE THE AXLE AND ADD ENOUGH THIN SHIMS TO KEEP THE GEAR FROM RUBBING THE FACE OF THE CLUTCH BELL. ADD THICK AND THIN SHIMS ON THE OPPOSITE SIDE TO SPACE THE HUB OUT AS FAR AS YOU WANT. YOU MAY HAVE TO ADJUST THE ENGINE POSITION , AXLE SPACING, OR BOTTOM PLATE OFFSET AS NECESSARY.



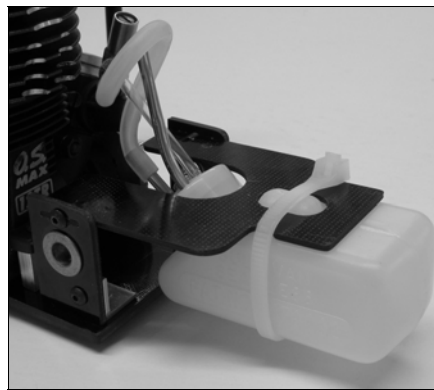
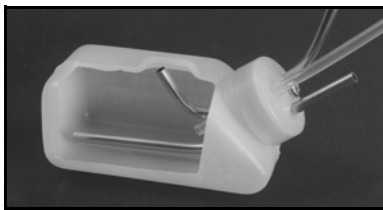
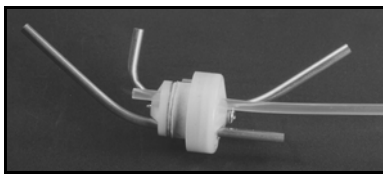


STEP 13 ATTACH THE THROTTLE PLATE TO THE TOP OF THE ALUM. SUPPORTS WITH TWO 1/4" SCREWS. OPEN BAG 6. THREAD THE BALL JOINT INTO THE HOLE AT THE FRONT OF THE THROTTLE PLATE.



STEP 15 5147 FUEL TANK. WE HAVE PROVIDED EXTRA PICTURES INCLUDING A CUTAWAY VIEW IN ADDITION TO THE MANUFACTURER'S INSTRUCTIONS. SLIDE ALL TUBES THRU THE CAP, RUBBER SEAL AND INNER RETAINER BEFORE BENDING THEM. INSTALL THE SCREW, BUT DO NOT TIGHTEN. THE BRASS TUBE BENT ONLY INSIDE IS THE FUEL PICKUP. THE CLEAR PLASTIC ONE IS THE FILL LINE. THE BRASS LINE BENT INSIDE AND OUTSIDE IS THE VENT. YOU CAN ROTATE IT AROUND CLOSE TO THE PICKUP TO GET IT IN, THEN ROTATE IT BACK TO GET IT NEAR THE TOP OF THE TANK, THEN TIGHTEN THE SCREW. YOU CAN BUILD THE TANK WITH ONLY TWO LINES BY LEAVING OUT THE PLASTIC LINE AND FILLING THE TANK BY PULLING THE FUEL LINE OFF THE CARB. ON THE ENGINE TO FILL THE TANK. INSTALL THE TANK IN THE REAR PLATE WITH AN 8" TIE STRAP PROVIDED. IF YOU PREFER, YOU CAN MOUNT THE TANK ON THE CHASSIS BY CUTTING A SLOT IN THE CHASSIS AND USING THE TIE STRAP.

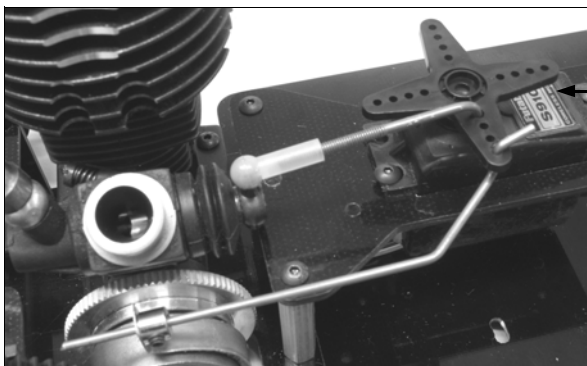
STEP 14 ATTACH THE PULL ROD POST TO THE CHASSIS WITH ONE 1/4 OR 3/8 SCREW. THREAD THE PULL ROD FROM BAG 1 INTO THE BALL CUP FROM BAG 6. SLIDE THE COLLAR AND SILICONE TUBE ON THE PULL ROD, SLIDE THE END THRU THE POST, AND SNAP THE CUP ONTO THE BALL JOINT. SLIDE THE COLLAR AGAINST THE TUBE AND POST AND TIGHTEN THE SET SCREW.



STEP 16 ATTACH THE BRAKE STRAP UNDER THE BOTTOM PLATE WITH THE SMALL SCREW. YOU MAY HAVE TO ADJUST THE BEND TO LINE IT UP AS SHOWN. IT SHOULD NOT DRAG ON THE CLUTCH BELL.



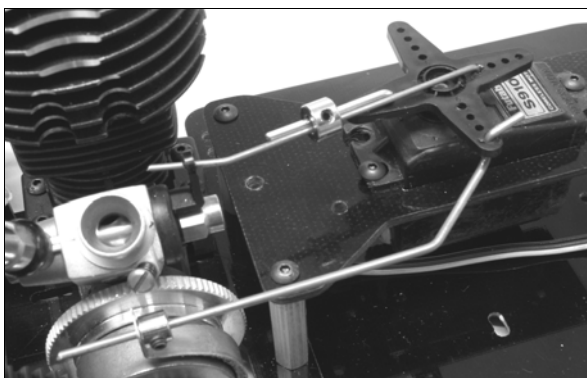
STEP 17 INSTALL YOUR THROTTLE SERVO IN THE THROTTLE PLATE.

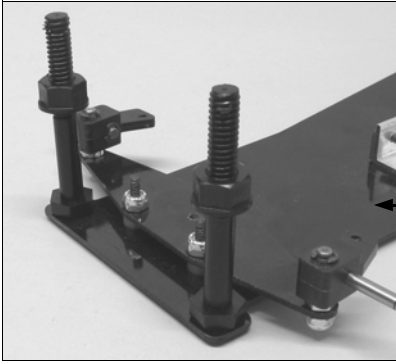


USE THE LAYOUT ON THE TOP FOR A SLIDE VALVE CARB. THREAD THE BALL CUP ONTO THE THREADED ROD ALL THE WAY, THEN BACK IT OUT ABOUT HALFWAY. SNAP THE CUP ON THE CARB AND MARK THE ROD TO BEND IT TO GO THRU THE SERVO WHEEL. TRIM OFF THE EXCESS SO IT DOES NOT HANG ON THE SERVO HOUSING AND USE THE MIDDLE SIZE COLLAR (3/32) TO HOLD IT.

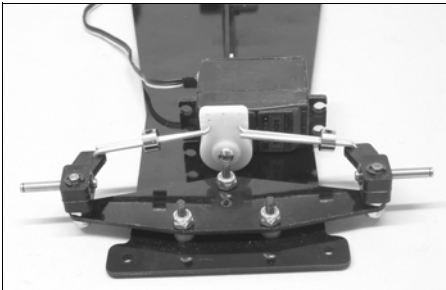
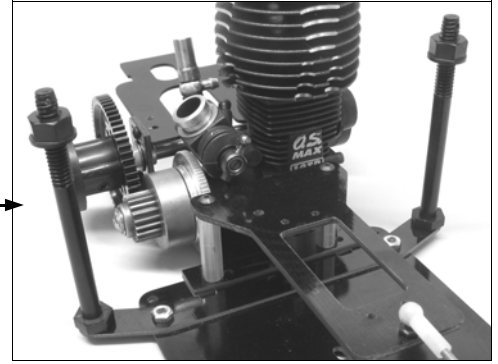
BEND THE LONG 1/16 WIRE LINK TO GO THRU THE SERVO ARM AND THRU THE HOLE IN THE BRAKE STRAP AS SHOWN. INSTALL THE SMALL COLLAR (1/16) ON THE LINK SO IT WILL PRESS ON THE BRAKE STRAP AT LOW THROTTLE.

USE THE BOTTOM LAYOUT FOR A ROTARY CARB. USE THE THIN WIRE LINK AND THE PREBENT SHORT LINK TO MAKE THIS LINK AND JOIN THEM WITH THE LARGE COLLAR. INSERT THE SHORT LINK IN THE SERVO ARM AND THE BENT END OF THE THIN WIRE IN THE ARM ON THE OPPOSITE SIDE. SLIDE THE COLLAR OVER THEM AND TIGHTEN. THIS ALLOWS THE SMALL WIRE TO BEND AT THE END OF THE CARB'S TRAVEL. YOU WILL NEED TO ADJUST YOU RADIO CAREFULLY WITH EITHER SETUP. YOU MAY ALSO HAVE TO VARY THE SETUP IF YOUR CARB OR SERVO OUTPUT VARIES IN SIZE OR LOCATION. SHORTEN LINKS AS NECESSARY.





STEP 18 OPEN BAG 5. ATTACH THE SHORT POSTS AT THE FRONT OF THE CHASSIS AND THE LONG POSTS ON THE REAR BODY MOUNT. THREAD THE NUTS ON AND USE THEM LATER TO ADJUST THE BODY HEIGHT.



STEP 19 INSTALL YOUR STEERING SERVO ON THE CHASSIS BEHIND THE FRONT AXLE PLATE WITH SUPPLIED SERVO TAPE . LAY IT ON THE CHASSIS WITHOUT THE BACKING PEELED AND TEST FIT THE LINKAGE BEFORE STICKING IT DOWN. MAKE SURE THE OUTPUT OF THE SERVO IS IN THE CENTER OF THE CHASSIS AND USE TWO SHORT AND TWO LONG LINKS ATTACHED TOGETHER WITH COLLARS TO ATTACH THE STEERING BLOCKS TO THE SERVO SAVER ON YOUR SERVO.MAKE SURE THE SERVO SAVER IS STRAIGHT UP AND THE AXLES ARE STRAIGHT, THEN TIGHTEN THE SETSCREWS IN THE COLLARS.

STEP 20 INSTALL YOUR RADIO RECEIVER , SWITCH, AND BATTERY PACK ON THE CHASSIS WITH SERVO TAPE IN A CONVENIENT LOCATION. YOU SHOULD TEST YOUR RADIO SETUP AND MAKE SURE YOU HAVE ADJUSTED EVERYTHING CORRECTLY ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. INSTALL YOUR EXHAUST SYSTEM. **YOU SHOULD ALSO INSTALL A THROTTLE RETURN SPRING ON YOUR CARB THAT IS STRONG ENOUGH TO CLOSE THE CARB TO IDLE IF YOU TURN THE RADIO OFF.THIS AN IMPORTANT SAFETY FEATURE.** INSTALL THE FRONT BUSHINGS IN EACH SIDE OF EACH FRONT WHEEL. LUBE EACH AXLE AND REAR BUSHINGS WITH A SMALL AMOUNT OF LIGHT OIL. INSTALL THE FRONT WHEELS AND RETAIN WITH E-CLIPS. INSTALL THE REAR TIRES ON THE HUBS WITH TWO 3/8 CAP SCREWS EACH FROM THE REAR AXLE BAG.

SET YOUR BODY DOWN OVER THE CHASSIS AND MARK THE OUTSIDE FOR BODY POST LOCATIONS, TIRE CUTOUTS AND ANY CLEARANCE REQUIRED FOR ENGINE OR EXHAUST. PAINT THE BODY AS DESIRED WITH PAINT FOR FUEL POWERED CARS, TRIM IT OUT AND TEST FIT IT ON YOUR CAR , AND MAKE CHANGES AS NECESSARY, THEN YOU CAN PEEL THE PROTECTIVE FILM. INSTALL ANY WINGS OR SIDE DAMS THAT ARE INCLUDED. YOU CAN PUT A SMALL HOLE IN THE ROOF AND RUN YOUR ANTENNA WIRE OUT IT AS YOU INSTALL YOUR BODY TO RUN THE CAR. THIS WILL IMPROVE YOUR RADIO RANGE. IF YOU ARE GOING TO RUN YOUR CAR ON A SURFACE OTHER THAN A TRACK WHERE COMPOUNDS HAVE BEEN PUT ON THE SURFACE TO IMPROVE TRACTION, BE VERY CAREFUL TO PICK A SPOT THAT IS CLEAN AND FREE OF DEBRIS. USE WD-40 TO CLEAN YOUR TIRES AND IMPROVE TRACTION.

IF YOUR ENGINE IS NEW YOU SHOULD BREAK IT IN ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS, THEN GO OUT AND HAVE FUN WITH YOUR **RJ SPEED NITRO DRAG CAR.**

REPLACEMENT PARTS AND ACCESSORIES ARE AVAILABLE THRU YOUR LOCAL HOBBY SHOP. IF THEY DO NOT CARRY THEM , THEY CAN ORDER THEM FOR YOU. SEE OUR COMPLETE LINE AT www.rjspeed.com