

WWW.FTX-RC.COM

OF THE

1/8 SCALE 4WD IC RACING BUGGY



SPECIFICATIONS: WIDTH: 305MM HEIGHT: 165MM LENGTH: 458MM WHEELBASE: 335MM TYRE SILE: 110 X 43MM ENGINE: 21 SIZE 3.5CC FEATURES: - READY-TO-RUN - 2-CHANNEL RADIO INSTALLED - 4WAD DRIVE SYSTEM - 21 SIZE 3.5CC PULL START ENGINE

≜ SAFETY PRECAUTIONS

- This radio controlled racing car is not a toy!
- This high-performance R/C model is recommended for ages 14 and older.
- First-time builders should seek the advice of experienced modellers before commencing assembly.
- Take enough safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation!

• ROLL BAR/CARRY HANDLE • FRONT AND REAR CVA DRIVESHAFTS

- SEALED PRECISION BALL BEARING
- · PLYABLE DURABLE SUSPENSION MOULDINGS

WATERPROOF DUSTPROOF SEALED GEARBOX
 FAST ACCESS RECEIVER AND BATTERY COMPARTMENTS
 3 DIFFERENTIALS WITH FOUR BEVEL GEARS
 BLUE ANODISED ALUMINIUM CHASSIS

· ADJUSTABLE THREADED LONG OIL-FILLED SHOCK ABSORBERS

• PRE-PAINTED BODYSHELL

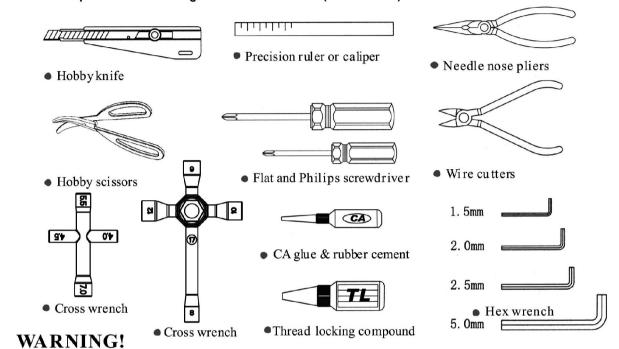
INSTRUCTION MANUAL





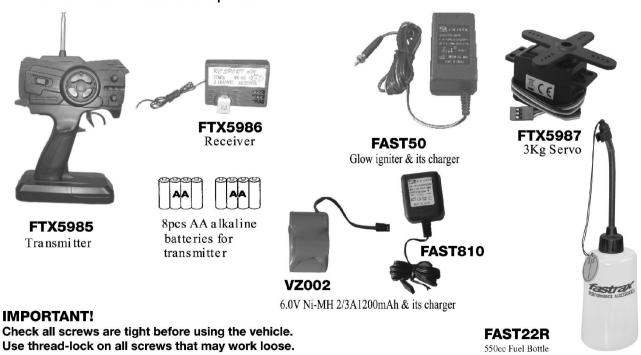
Required equipment for operation

1.Tools required for building and maintenance: (not included).



Do not use a power screw driver to install screws into nylon or plastic materials. The fast locking may heat up the screws being installed that may break the molded parts or strip the threads during installation.

2.Additional items needed for operation:

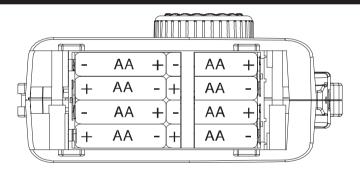




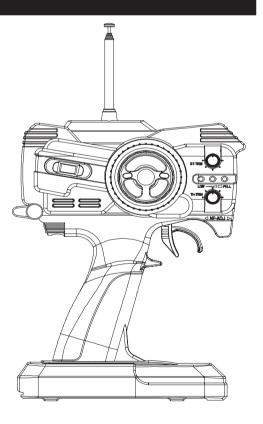
Please read the instructions carefully before starting the assembly.

- 1.Please assemble and install this product without children. As the product includes small and sharp parts.
- 2.Do not run the truck in public street or highways. As it might cause serious accidents, personal injuries and property damage etc.
- 3. During the middle of racing and after operation, the engine and exhaust will become HOT. Therefore please do not touch them before cooling down.
- 4.Please make sure everyone is using different frequencies while racing the truck in the same area.

TRANSMITTER PREPARATION

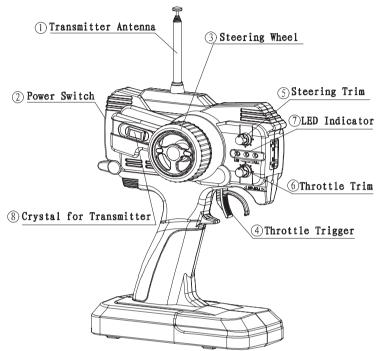


- Install eight "AA" batteries into transmitter, making sure the polarity is correct.
- Insert the antenna into the top of the transmitter and tighten.
- Turn the transmitter on and check the battery light.
- If all LED's light up, the batteries are acceptable. If only the red LED lights up, immediately replace the batteries.





GLOSSARY OF TRANSMITTER



- ① The transmitter antenna is for transmit the radio waves.
- ② The power switch is for switching the power on/off.
- ③ The steering wheel is for controlling the direction of right/left.
- ④ The throttle trigger is for controlling the throttle and brake.
- ⑤ The steering trim is for adjusting the p--osition of neutral.(right/left)
- The throttle trim is for adjusting the ca--rb in idle position.
- The LED indicator is for showing the remaining amount of the battery.when turn on the power switch.
- ® Crystal for transmitter is for changing the radio frequency by replacing the crystal.

BEFORE OPERATING

- Install the receiver antenna.
- Install the transmitter antenna.
- Loading the battery on the transmitter.
- Install the charged battery on the truck.

Please Note: We recommend that you install a Failsafe Unit.

RC OPERATING PROCEDURES

- 1. Please pull out the transmitter antenna and then turn on the power switch first, before turning on the receiver.
- 2. Please raise the vehicle off the ground and check that the controls are responding correctly.
- 3. When the responses of the vehicle start to slow down please change or recharge the battery pack
- 4. When you finish the racing, please turn the receiver switch off first, and then the transmitter.
- 5. Please make sure the battery is disconnected and remove the battery after finishing racing.

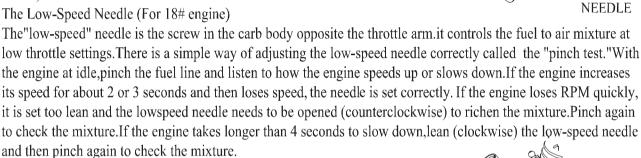


ENGINE TUNING GUIDE

HIGH-SPEED NEEDLE

The "high-speed" needle is sticking up from the carburetor. This controls the fuel to air mixture of the carburetor. The needle is pre-set for break-in from the factory at 2-1/2 t--urns out from fully closed. Once the engine is broken-in, the high-speed needle would typically run from 2 to 2-1/2 turns out from closed, depending on the weather, humidity and altitude above sea level. To richen the mixture turn the needle counterclockwise. To lean it turn the needle clockwise.

The Low-Speed Needle (For 18# engine)



GH-SPEED

IDLE STOP

SCREW

IDLE STOP SCREW

The "idle stop" screw is located on the backside of the carburetor. This increases or decreases the idle speed without changing the fuel mixture. The barrel should be approximately 1mm from fully closed.

IMPORTANT! To ensure long life and good performance from your engine, you MUST break-in the engine. The break-in period is critical for long life of the internal parts of the engine. This should be done over the first 5 tanks of fuel.

RUNNING THE ENGINE

STARTING THE ENGINE

IMPORTANT!Your radio system must ALWAYS be turned on and the transmitter antenna fully extended when running the engine!

- 1. Fill the fuel tank.
- 2. Prime the engine-while the engine is cool, place your finger over the tuned pipe's exhau--st hole and pull the recoill gently several times. Donot over-prime! Stop when you see fuel in the fuel line at the carb. You may need to loosen the glow plug a little to help with this.
- 3. Install a "C" alkaline into the glow starter and attach the starter to the glow plug.
- 4. With the throttle at idle, start the engine by pulling the recoil using short, quick pulls. Do NOT pull the recoil starter's string to the end. You only need 10 to 12 inches of pull to start the engine with the throttle at idle.

Sometimes it is helpful to start the engine at around half throttle. When the engine starts, immediately return the throttle to idle. If this is not done the engine can overrev and cause engine damage.



STOPPING THE ENGINE

Pinch the fuel line that runs to the carburetor. Pinching this line will restrict fuel flow and the engine will quit within a few seconds. Never place your finger over the exhaust to stop the engine. This could result in serious burns on your finger. It also causes fuel to back up in the engine, making it harder to start the next time you run your vehicle.

IMPORTANT! FIXING A FLOODED ENGINE

If the engine is difficult to turn over with the recoil starter, especially if it is brand new, loosen the glow plug a half turn before starting the engine. This allows some compression to escape, but the engine will still start. Make sure you tighten the glow plug after the engine starts. If the recoil starter is still difficult to pull, the engine is flooded-there is too much fuel inside the engine. Remove the glow plug, then turn the the buggy upside down and pull the recoil 5 or 6 times. This will clear the engine of fuel, and you will notice the recoil pulls easier. Replace the glow plug and repeat the starting procedure.

BREAK IN PROCEDURE

SOME THINGS TO REMEMBER DURING BREAK-IN

- 1.Run with the body off. This will keep the engine cooler.
- 2. Keep the air filter on at ALL time. Failure to do so will result in dirt entering the engine and instant damage.
- 3. Run on a smooth, hard surface. An empty parking lot is Perfect.
- 4.Use the same fuel that you will use for normal running.
- 5. Resist the urge to accelerate and decelerate quickly.
- 6.Break-in puts stress on the glow plug so it is adviseable to have at least one spare to hand.
- 7.DO NOT overheat the engine. You can check the head temperature by using a temperature gauge.

TANK 1

Your first tank of fuel should be running the vehicle at a very rich needle valve setting. This allows the fuel to carry as much oil as possible into the engine to properly lubricate the internal parts during the break-in.

- 1.Open the high speed needle valve 4-1/2 turns from fully closed (counterclockwise). When closing the high-speed needle, close until you feel some resistance. DO NOT overtighten or you will damage the engine.
- 2. Fill the fuel tank and start the engine.
- 3. Run the buggy on a smooth surface with the body off.
- 4. Run back and forth at medium speeds, slowly accelerating and decelerating the buggy.
- 5. Run the buggy until the tank is almost out of fuel. Do not allow the tank to run out of fuel during break-in. This leans out the engine and can cause overheating.
- 6. Stop the engine and allow it to cool. This normally takes around 10-15 minutes.

NOTE: if your engine does not stay running consistently, increase the idle speed by turning the idle stop screw clockwise.

TANK 2

Lean the high-speed needle 1/12 turn from "tank 1" setting.Run the buggy for the complete tank and then let cool.



TANK 3

Lean the high-speed needle another 1/12 turn from "tank 2" setting. Run the buggy for the complete tank and then let cool.

TANK 4

Lean the high-speed needle another 1/12 turn from "tank 3" setting.Run the buggy for the complete tank and then let cool. You should notice the engine running much better at this point.

TANK 5

Lean the high-speed needle another 1/12 turn from "tank 4" setting.Run the buggy for the complete tank and then let cool. The engine is now ready to be performance tuned. Important! At this point, the engine will likely be running at a faster idle than needed(This is typical after break-in). Adjust the idle stop screw to lower the idle speed so that the w-heels do not.or just barely, rotate when you lift the buggy off the ground.

TUNING TIPS

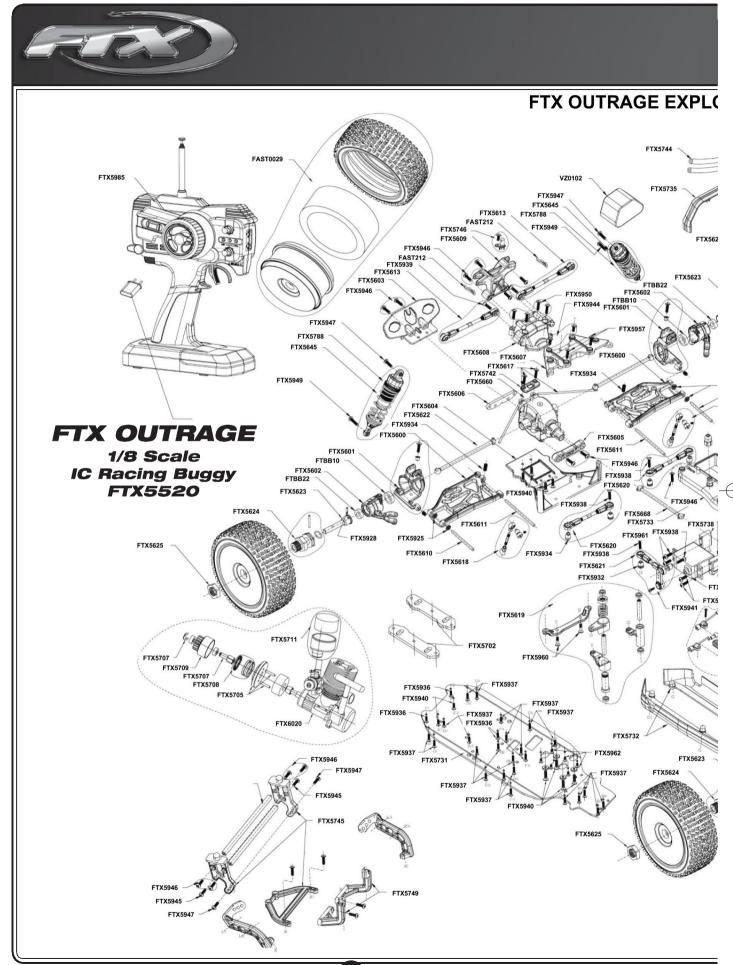
After break-in,run the vehicle where you plan to do most of your driving (grass, street, track, etc). Tune the high speed needle so the engine makes good power without everheating. Us-ing a temperature gauge, tune the engine so that it will consistently stay under 270 F (132 C). Keep in mind.RC engines usually take a minute or two to warm up. It is common not to reach full power right away. Never tune a cold engine!

ENGINE CARE

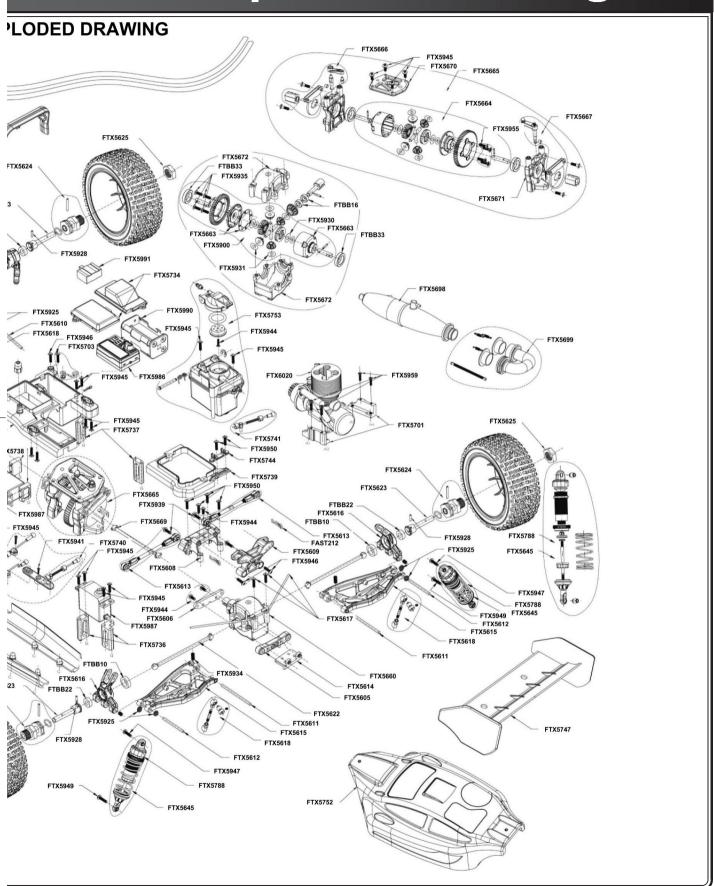
Never store your car with fuel in the tank. We recommend that after the final run of the day, you empty the fuel tank and then run the engine at idle until all the fuel is out of the fuel lines and engine. Remove of air filter and glow plug. Then place two drops of the After Run Engine Oil in the carburetor and two into the cylinder to help prevent corrosion. Pull the recoil a few times to circulate the oil.

10 WAYS TO ENSURE LONG LIFE FROM YOUR ENGINE

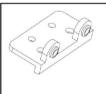
- 1.Keep your engine and air filter clean.Dirt will act as insulation on an engine. it will not be able to shed heat as easily.Clean and re-oil the element often.
- 2.Do not over-lean your engine.
- 3.Do not run your engine with little or no load. Don't throttle up the engine to full throttle when the wheels are not in contact with the ground.
- 4.Do not overheat the engine.
- 5.Do not use a fuel with a low oil content. Make sure you use a model car fuel from a reputable manufacturer, such as Byron Fuel.
- 6. Avoid using old fuels in the engine.
- 7.Do not use a fuel with a nitromethane(often called nitro) content over 20%.
- 8.Do not scratch the piston or cylinder sleeve. Avoid jamming something into the exhaust port when removing or re-installing the clutch or flywheel. Use a special tool called a Flywheel Wrench to keep the crankshaft from moving.
- 9.Do not use silicone sealer on the engine joints. Silicone sealer contains acetic acid, which is corrosive if it gets inside your engine.
- 10.Do not allow any water to get inside the engine. This sounds easy, but temperature changes can cause condensation inside the engine. This is a good reason to use an after-run oil. Store your engine inside the house, not in a garage or shed where there will be temperature extremes.



Exploded Parts Diagram



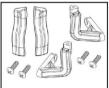




FTX5614 Rear chassis



FTX5745 Tail wing



FTX5749 Rollcage post



FTX5747 Tail wing



FTX5746 Body front mount/screw



FTX5709 Clutch bell

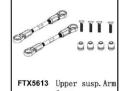






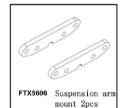


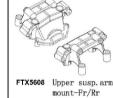
6pcs





FTX5603 Fr. bumper 1pcs

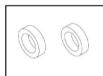




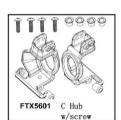




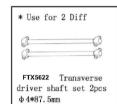
w/screw

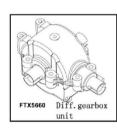


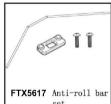
FTBB10 Ball bearing φ 10* φ 15*4 2pcs

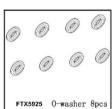






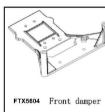


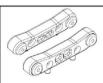




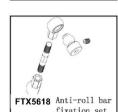








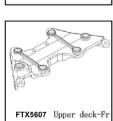
mount block-Fr/Rr



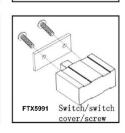


-sion arm pin-short 4pcs

















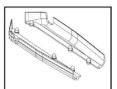


FTX5738 Streering servo mount-A/B



FTX5733 Upper deck

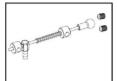




FTX5732 Side guard plate-L/R



FTX5736 Throttle servo



FTX5741 Throttle linkage set



FTX5708 Clutch slice w/spring



FTX5616 Rear hub



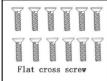
FTX5615 Rear lower susp. arm-L/R



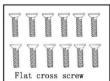
FTX5744 Fuel pipe



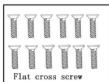
FTX5612 Rear suspension arm pin-short 4pcs



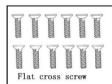
FTX5935 TPF2. 6*10mm



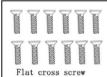
FTX5936 TPF3*8 mm 12pcs



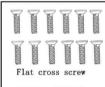
FTX5937 TPF3*10mm 12pcs



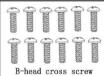
FTX5938 TPF3*14 mm 12pcs



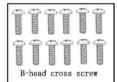
FTX5939 TPF3*16 mm 12pcs



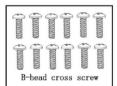
FTX5940 IS03*10 mm 12pcs



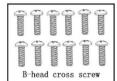
FTX5941 BT2. 6*6 mm 12pcs



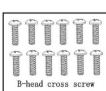
FTX5944 BT3*8 mm 12pcs



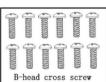
FTX5946 BT3*12 mm



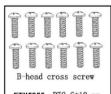
FTX5947 BT3*14 mm 12pcs



FTX5949 BT3*16 mm 12pcs



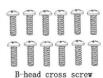
FTX5950 BT3*20 mm



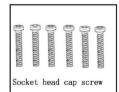


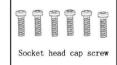


12pcs



B-head cross screw FTX5957 BM3*10 mm 12pcs



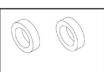








FTBB16 Ball bearing φ5*φ10*4 2pcs



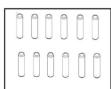
FTX5958 M3*25 mm 6pcs

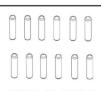
FTBB33 Ball bearing φ 12* φ 18*4 2pcs



FTX5959 M3*10 mm 6pcs

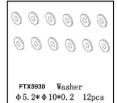
FTX5926 E-cilp Ф4*0.6mm 12pcs





FTX5929 Pin φ 2*12.5mm



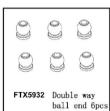




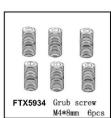




lock-nut 6pcs





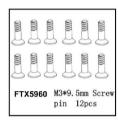


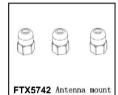


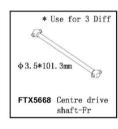


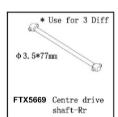


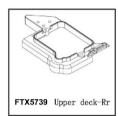








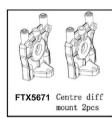






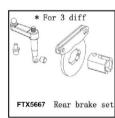




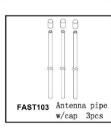


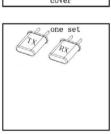


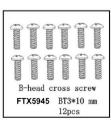


























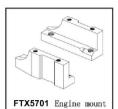








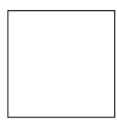














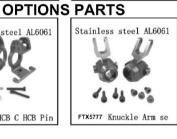




















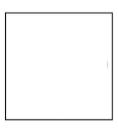




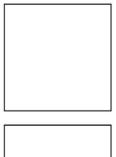






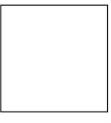


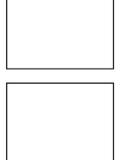














NOTE5:		





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