

AQUACRAFT
Models

ALLIGATOR TOURS™



WARNING:

- Never attempt to swim after a stalled RC boat.
- Never operate your RC boat while standing in the water.
- Never operate your RC boat in the presence of swimmers.
- Always use a Personal Flotation Device (PFD) when boarding and operating your retrieval craft, i.e. Jon boat or duck boat.
- NOTE: Because of the sharp running hardware included with this RC boat, we do not recommend a rubber blow up raft.
- RC boat running hardware is very sharp. Be very careful when working on and around the metal parts.
- While the motor is running pay close attention to the propeller. Do not come in contact with the propeller at any time the engine is running or serious injury will result.
- AquaCraft products are to be used by ages 14 and over.
- AquaCraft is not liable for personal property

Introduction

Thank you for purchasing the AquaCraft Alligator Tours Airboat! We want the time you spend with your new RC boat to be fun and successful, so please fully read the manual. If for any reason you think this R/C model is not for you, return it to your local hobby dealer immediately. NOTE: Your hobby dealer cannot accept returns on any model after final assembly or after your boat has been operated.

Safety Precautions

- **Never ever attempt to swim after a stalled RC boat. DO NOT get in the water for any reason to retrieve your boat. To aid you in retrieving a stalled RC boat you can use a fishing reel with a tennis ball tied to the end of the line. Or better yet, get yourself a small boat so you can row out and pick up your boat. Remember to use a PFD (personal flotation device) any time you enter your retrieval craft.**
- AquaCraft products are to be used by ages 14 and over.
- Do not touch the propeller anytime the motor is running. Pay equally close attention to items such as loose clothing, shirtsleeves, ties, scarves, long hair or anything that may become entangled in the spinning prop. If your fingers, hands, etc. come in contact with the spinning propeller, you may be severely injured.
- The speed and mass of this boat can inflict property damage and severe personal injury if a collision occurs. Never run this boat in the presence of swimmers or where the possibility of collision with people or property exists.
- Glow engines produce heat. Do not touch any part of your engine until it has cooled.
- This boat is controlled by radio signals, which are susceptible to possible interference from other R/C transmitters, paging systems, or other electrical noise.
- If your Alligator Tours Airboat should happen to stall, water currents will slowly carry it to shore. The bad news is that the boat could be carried to the opposite shore. When surveying areas to run your model, keep variables in mind such as wind direction, size of the lake, etc. It is not advisable to run R/C boats on any free-flowing bodies of water such as creeks or rivers.

Specifications

BOAT SPECIFICATIONS:

Over all Length: 30" (770mm)
Width: 11 ¼" (285mm)
Height: 14" (355mm)

BOAT FEATURES

Air cooled .27 SuperTigre® Glow Engine
Tough fiberglass hull construction
Twin Air Rudders
Injection molded water resistant radio box
Steel welded propeller cage
9x6 Fiber-filled pusher prop
Easy Fill Fuel Tank
Flotation installed inside the hull

RADIO SYSTEM

Tactic™ TTX300 3 Channel Pistol Grip Transmitter
Tactic TR325 3 Channel RX
Tactic TSX200 Standard servos (2)

Manual Specifications & Description Changes

All pictures, descriptions, and specifications found in this instruction manual are subject to change without notice. AquaCraft maintains no responsibility for inadvertent errors in this manual.

Warranty Service

AquaCraft will warrant your Alligator Tours Airboat for 90 days after the purchase from defects in materials or workmanship of original manufacture. AquaCraft, at their option, will repair or replace at no charge the incorrectly made part. This warranty does not cover damage caused by crash, abuse, misuse, alteration or accident. To return your boat for repairs you need to provide proof of purchase. Your store receipt or product invoice will suffice. IN NO EVENT SHALL THE PURCHASER BE ENTITLED TO ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Outside USA and Canada, contact local importer for warranty information.

Hobby Services
3002 N. Apollo Drive, Suite 1
Champaign, Illinois 61822
Attn: Service Department
Phone: (217) 398-0007 9:00 am - 5:00 pm CST M-F
E-mail: hobbyservices@hobbico.com

Standard Repair Service

After the 90-day warranty has run out you can still have your Alligator Tours Airboat repaired for a service fee by the experts at AquaCraft™. To speed up the repair process, please follow these four simple steps:

IMPORTANT NOTE

For standard repair service you must specify whether you wish the charges to be billed COD or if you wish to be notified of the charges so you can send a check.

1. It is best (recommended) to return the ENTIRE system, boat and radio.
2. Make sure batteries are removed from the transmitter and radio box of the boat.
3. Send written instructions which include a list of all items returned, and a THOROUGH explanation of the problem or problems requiring service. Be sure to include your return address and daytime phone number. If you have access to e-mail, please provide us with your e-mail address to help speed communication.
4. Send to Hobby Services at the address on the previous page.

Required Accessories

Small personal retrieval system: This might be as simple as a tennis ball tied to the end of a fishing reel. Better yet, a small boat and personal flotation device (PFD) are “preferred” so you can row out and properly retrieve your boat.

YOU WILL ALSO NEED

- 8 AA batteries
- 10 to 15% nitro aircraft glow fuel (Do not use “boat fuel” in this product)
- Hobbico® TorqMaster™ 12V Starter (HCAP3200)
- Hobbico TorqMaster 12V Battery (HCAP0800)
- Hobbico HotShot™ 2 Glow Igniter (HCAP2520)
- DuraTrax® Kwik Pit™ 500cc Fuel Bottle (DTXP0150)
- Great Planes® After Run Engine Oil (GPMP3001)



Optional Accessories

As with any hobby, it is a good idea to assemble a useful collection of tools and accessories to bring along when you head to the pond. Here are some items you will want to keep handy:

- Extra “AA” Batteries
- Extra Glow Plugs
- Glow Plug Wrench
- Extra prop
- Small standard screwdriver
- Hobby Knife (RMXR6901)
- Metric Hex L-Wrench Set (HCAR0521)

Boat Terminology

BOW: The front of the boat.

STERN: The back of the boat.

PORT: This is the left side of the boat when aboard and facing the front (bow). An easy way to remember this is that port and left both contain four letters.

STARBOARD: This is the right side of the boat when aboard and facing the front (bow).

HULL: The body of the boat.

DECK: The top of the boat.

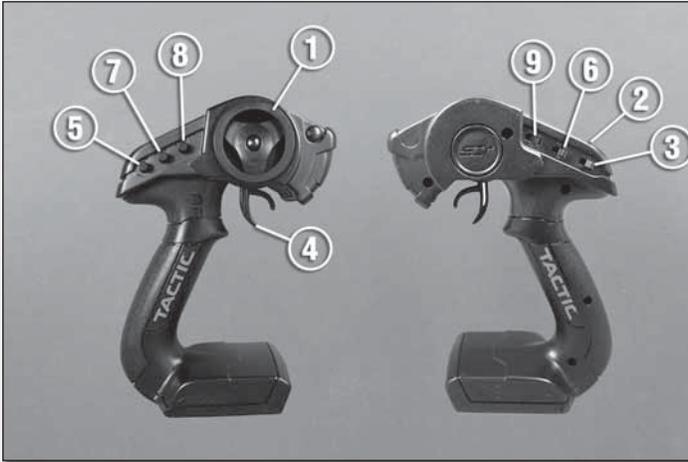
TRANSOM: The back of the boat.

KEEL: The center of the bottom of the boat.

RUDDER: The hinged vertical plate/s mounted at the transom that controls steering

Understanding Your Transmitter

To help you better understand your transmitter and its functions, here is a picture identifying the operational features.



- 1 Steering Wheel
- 2 LED Power Indicator
- 3 Power ON/OFF Switch
- 4 Throttle Trigger
- 5 Steering Rate Adjustment (this is used to increase or decrease the turning radius of the boat)
- 6 Throttle Reversing Switch (This needs to be in the "R" position for your Alligator Tours)
- 7 Throttle Trim Dial
- 8 Steering Trim

Assembly

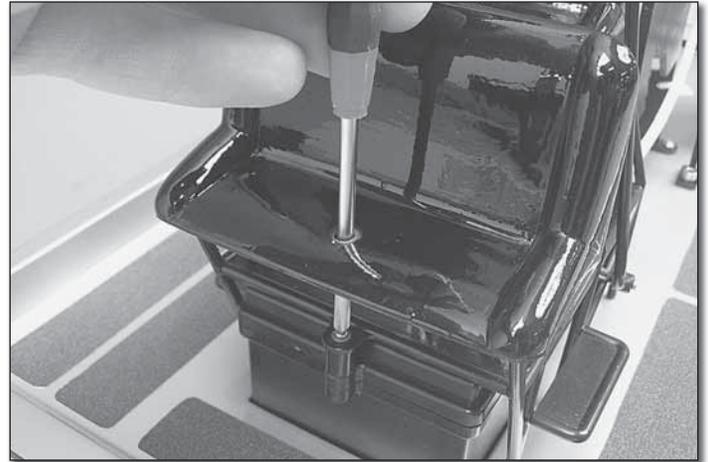
INSTALLING THE TRANSMITTER BATTERIES

Install 4 "AA" batteries into the transmitter in the configuration molded into the battery floor.

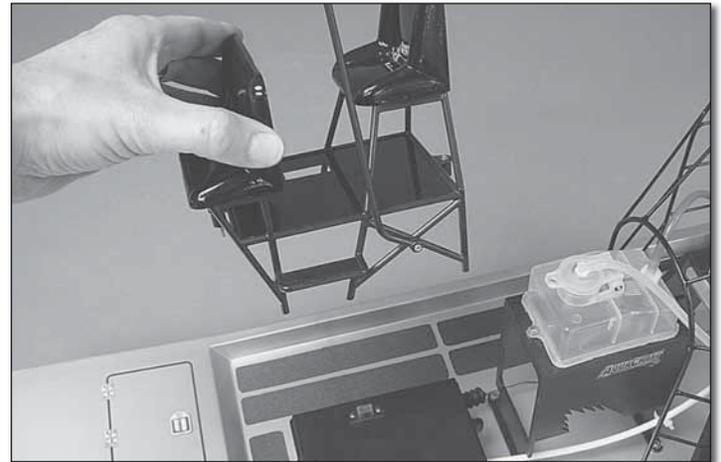


Note: Turn the transmitter "ON". The battery level indicator light (LED) should glow red. If the light is flashing the batteries are low and need to be replaced.

RECEIVER BATTERIES



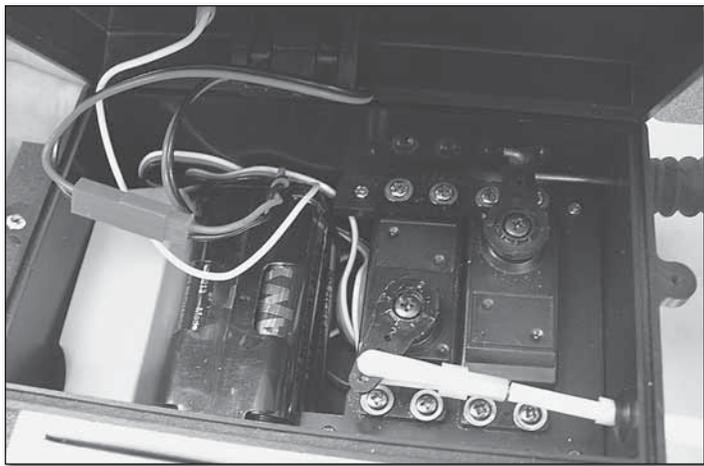
❑ 1. Using a #1 Phillips screwdriver (small), remove the two (2) Phillips head screws from the top of the radio box. One is located under the front seat of the boat and the other behind the back seat.



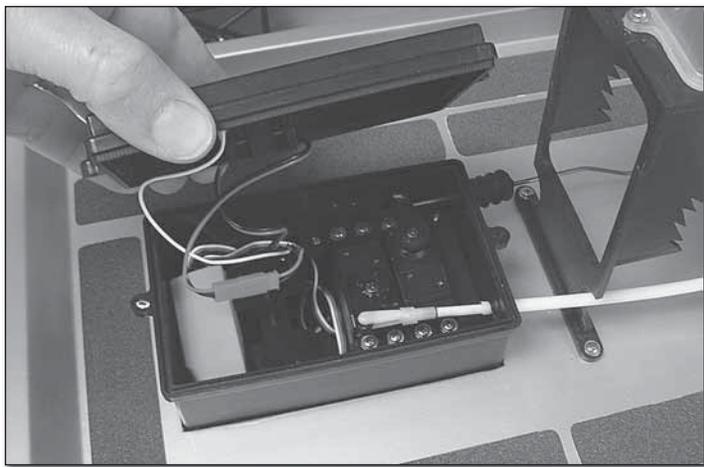
❑ 2. Remove the seat assembly as well as the top of the radio box and lay them to the side.



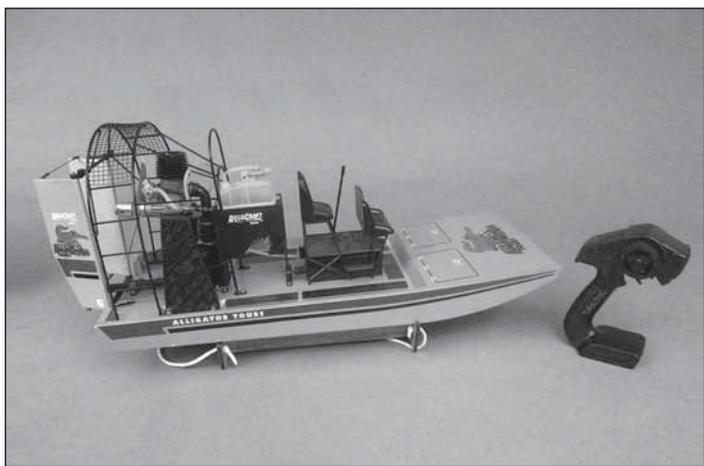
❑ 3. Install 4 "AA" batteries into the battery holder following the diagram in molded in the bottom of the holder.



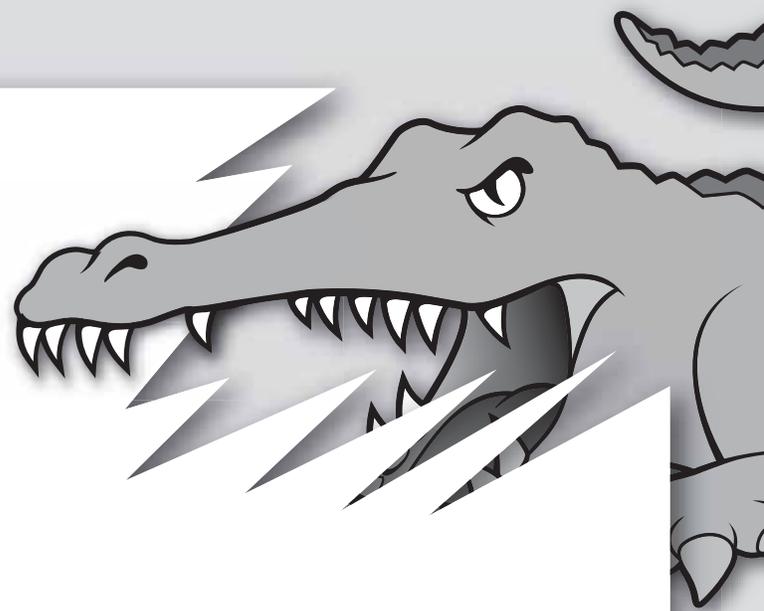
❑ 4. Slide the battery box back in the radio box, carefully tucking the wires in the box.



❑ 5. Place the radio box cover as well as the seat assembly in place and reinstall the screws. Be careful to not overtighten.



At this time you can install the decals on the boat. You can use the pictures on the box to help you place the decals. Your Alligator Tours Airboat is now ready for operation.



The SuperTigre .27

SPECIFICATIONS

Bore: .716" (18.2mm)

Stroke: .653" (16.6mm)

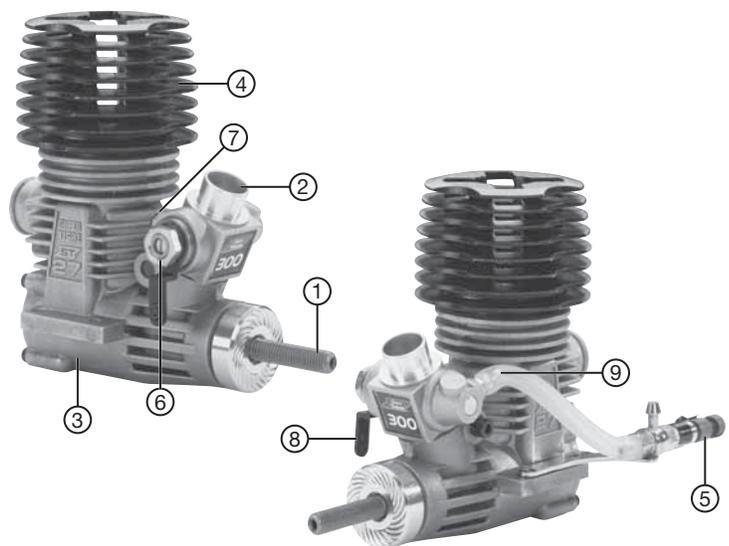
Displacement: 4.3cc

Weight: 12 oz (339.5g)

Power Output: 1.35 hp @ 28,000 RPM

Crankshaft Thread Size: 1/4-20

Carburetor Type: Rotary



ENGINE PARTS

1. Crankshaft
2. Carburetor
3. Crankcase
4. Cooling Head
5. High Speed Needle (HSN)
6. Low Speed Needle (LSN)
7. Idle Stop Screw
8. Throttle Arm
9. Fuel Inlet Nipple

Your carburetor has been set from the factory but differences in altitude, temperature and type of fuel can have an effect on the factory setting. The factory carburetor settings for your SuperTigre .27 are:

- HSN (#2): 2-1/2 Turns out
- LSN (#3): 1 Turn out

The above setting should get you going but should be considered a starting point and might not be the over all best setting for your motor. If you are having troubles starting your motor you might want to revert back to the factory settings and start over.

UNDERSTANDING & ADJUSTING YOUR CARBURETOR

The SuperTigre carburetor has two main adjustments and one sub adjustment. The two main adjustments are the HSN (High Speed Needle) and the LSN (Low Speed Needle).

Turning or what we call "tuning" your HSN adjusts the amount of fuel entering the motor during high speed operation (the mixture). The LSN adjusts the fuel mixture during idle. The more you turn in (lean out) either the HSN or the LSN, the less fuel there is entering the engine. This in turn makes the most power but can cause a condition called "a lean run". A lean run can damage your engine so always adjust your engine on the rich side.

LISTEN TO YOUR MOTOR

As you adjust your engine you are going to want to listen for what we call the 4-cycle/2-cycle break. The 4-cycle/2-cycle break is a point when your engine goes from a slower speed crackling sound to a smooth running, high pitch sound. It's not hard to hear this and you will know when you have found it: your motor will start making a lot of power.

OPTIMUM ENGINE SETTINGS

HSN: Your engine will last the longest and make the best power if you tune and operate your engine to just over the point of the 4-cycle/2-cycle break. You need to make sure you have it rich enough so you do not have a lean run and risk damaging the motor. If you're in doubt as you start your new engine, err on the rich side.

LSN: You want your LSN set so that when the motor is idling it will run for a few minutes without quitting. One way to determine this is to pinch the fuel line with fingers about 1" [25mm] from the carburetor as the engine is running at idle. If the motor stops instantly as you pinch the line, your LSN is set too lean. Turn the needle out 1/2-turn and try again. If your engine slowly picks up speed and after 10 seconds or so quits, you are likely just a tad rich. It's a good idea to let the engine run for a minute or two between pinch tests. This way you can be certain the new setting has taken effect.

Operating your Alligator Tours Airboat

POWER UP AND POWER DOWN SEQUENCE

It is important to follow the below sequence each time you operate your boat.

Power up before a run:

1. Fill the fuel tank.
2. Turn on the transmitter.
3. Turn on the Receiver (switch located on the top of the boat's radio box)
4. Attach the glow igniter to the top of the glow plug.
5. Start the engine using an electric starter.
6. Remove the glow igniter and let the motor warm up.

Power down after a run:

1. Retrieve the boat. **Do not touch the engine or muffler!**
2. Turn the receiver switch off.
3. Turn off the transmitter.

BREAKING IN YOUR ENGINE

You don't want to run the motor too rich during break in (running in). Operating the motor too rich will not allow the internal parts to warm up correctly. In doing so the piston and liner might not get properly seated. Lean it until it is running just on the edge of what is known as the 4 cycle - 2 cycle break, and then gradually work leaner with each run (just a click or two). You should also use a fuel that contains castor oil in the lubrication mix. Castor oil helps the engine run better and is a better overall lubricant.

We recommend "breaking in" the engine at full speed for at least 6-8 full tanks of fuel before you adjust it for top performance.

LAUNCHING & DRIVING YOUR AIRBOAT

After starting the engine use extreme care handling the boat. Make sure you grab the boat by the handle in front of the prop cage. Carefully walk to the water line and place the boat in the water. Here is the part where we usually say launch the boat in water that is free of weeds and small debris. However, this time we are not going to say that. As a matter of fact, we recommend just the opposite...

(Typical run times are in the 12 to 15-minute range.)

Enjoy driving your Alligator Tours Airboat!

If Your Airboat Flips

If you should happen to flip your Alligator Tours Airboat you are going to need to remove any water that might have entered the motor. We recommend removing the glow plug, hold the boat upside down and turn the motor over a few times by hand to remove the water. After most of the water has been removed leave the glow plug out and turn the motor over with the electric starter expelling the rest of the water. Make sure you hold a rag over the glow plug hole to avoid spraying water all over the place. NOTE: Be careful to keep that rag and fingers away from the spinning prop. Re-install the glow plug and start the engine. It is best to start the engine after you have flipped the boat to make sure ALL THE WATER IS OUT OF THE ENGINE. It is also a good idea to open the radio box to make sure no water entered the radio compartment.

Maintenance

After you're done boating for the day you are going to want to add some after run oil (GPMP3001) to the engine to protect the internal parts. We recommend removing the glow plug, opening the carburetor all the way to full throttle and placing 10 to 12 drops of after run oil down the barrel of the carburetor. Place a rag over the glow plug hole and turn the engine over with the electric starter. Repeat this step a least one more time to make sure the inside of the engine is fully coated. Replace the plug and wipe the boat down with cleaner. It is also a good idea to open the radio box and unplug the AA battery holder from the switch harness. Leave the lid off the radio box over night to make sure any water that might have entered can evaporate.

Ordering Replacement Parts

To order replacement parts for the AquaCraft Alligator Tours Airboat, use the order numbers in the replacement parts list that follows. Replacement parts can be purchased from your local hobby shop or by mail order. If you need assistance locating a dealer to purchase parts, visit www.aquacraftmodels.com and click on "Where to buy". If you are missing parts, contact Hobbico Product Support at:

Phone: 217.398.8970

Fax: 217.398.7721

E-mail: boatsupport@greatplanes.com

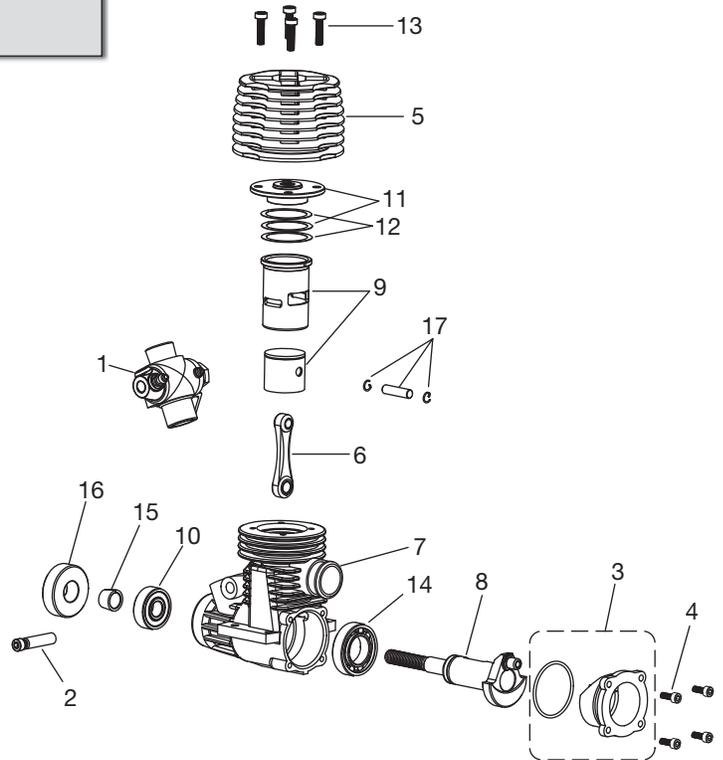


Part No.	Description
AQUB8727	Rudders (2)
AQUB8728	Rudder Brackets
AQUB6275	Airboat Prop Cage
AQUB7751	Prop Hub G34
AQUB7804	Linkage Set
AQUB6909	Fuel Tank Mount
AQUB6276	Airboat Seats
AQUB8607	Radio Box w/Lid
AQUB9508	Flip Top Fuel Tank
APCQ0096	APC 9x6 Pusher Prop
SUPG0727	SuperTigre .27 Rear Exhaust Marine Airboat
AQUB7950	AquaCraft Muffler Alligator Tours Airboat

SuperTigre G27 Engine

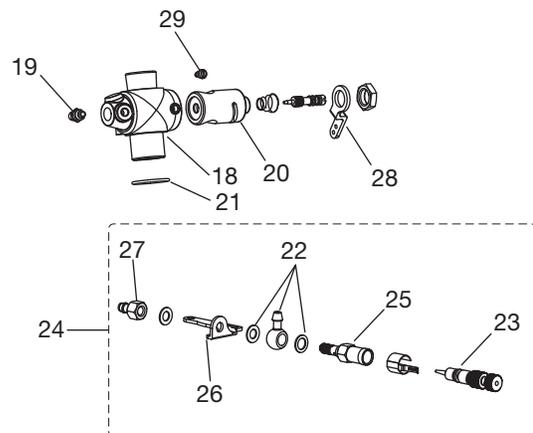
ENGINE

#	Part #	Description
1	SUPG1830	Carburetor Complete
2	SUPG1903	Carburetor Cinch Bolt
3	SUPG2055	Backplate
4	SUPG2056	Backplate Screws
5	SUPG2450	Cooling Head
6	SUPG2550	Connecting Rod
7	SUPG2619	Crankcase
8	SUPG3119	Crankshaft
9	SUPG3396	Piston and Sleeve
10	SUPG4385	Front Bearing
11	SUPG4700	Head Button w/Shims
12	SUPG4701	Head Shims
13	SUPG4702	Head Bolts
14	SUPG5467	Rear Bearing
15	SUPG6076	Taper Collet
16	SUPG6393	Drive Hub
17	SUPG6430	Wrist Pin w/Clips



CARBURETOR

#	Part #	Description
18	SUPG1900	Carburetor Body with Spray Bar
19	SUPG1901	Carburetor Nipple Body
20	SUPG1902	Carburetor Barrel
21	SUPG1904	Carburetor O-Ring
22	SUPG4477	Fuel Inlet with O-Rings
23	SUPG4841	High Speed Needle
24	SUPG4842	Remote Needle Assembly
25	SUPG4843	High Speed Needle Socket
26	SUPG4844	Remote Needle Bracket
27	SUPG4845	Remote Fuel Nipple
28	SUPG6051	Throttle Arm
29	SUPG6075	Throttle Stop Screw



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