

## **AW-YAMA 1:5 SCALE MODEL CAR**

### **SAFETY PRECAUTIONS**

Model car is not a toy, improper use is very likely to cause serious harm to people and property. For safe and reliable performance of your model car, please carefully read and follow the guidelines below.

- Before operating your model car , make sure model car is good;
- Avoid frequent or sudden change of moving direction;
- May be operating your model car under the following circumstances:
  1. Grass;
  2. Muddy, sandy or multi-stone of the local;
- **The safe use of fuel;**
  1. Fuel only used in outdoor;
  2. Only use dedicated fuel: unleaded premium gasoline RON93 or above mixed with high grade two stroke oil, mixture rate is 25:1, prohibit use of pure gasoline as fuel;
  3. Do not use fuel indoors or near the heat source ;
  4. Make sure to use the fuel on the cool, dry and dark, children intangible place!
- Do not put your fingers or other objects in a rotating or moving parts;
- Do not touch the muffler and the engine when it is hot;
- **Do not operate your model car in the following cases:**
  1. In the road or railway;
  2. In the place where people gathered or living;
  3. In the park, in the hospital or at airports or in public place;
  4. Indoors.
- Always checking the battery to be sure the battery power is sufficient, control of your model car is impossible without sufficient voltage for the transmitter battery and receiver, check your battery voltage often to avoid losing control of your model car;
- Before operating your model car , make sure your frequency is clear. If someone else is operating on the same frequency, both model will go out of control, possibly causing damage to the model, as well as others;
- When the model car is not a normal operation, it should be immediately stopped using, and check its reasons, as long as the fault has not ruled out, you can not use the model car, otherwise it might be even greater failure, and caused an accident;
- You are responsible for the safe operation of your model car. You must be properly install, test and operate your model car with a clear sense of the responsibility. Do not take risks that might endanger yourself or others;
- Must be 14 years old people can use this modle car .

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## MAINTENANCE GUIDE

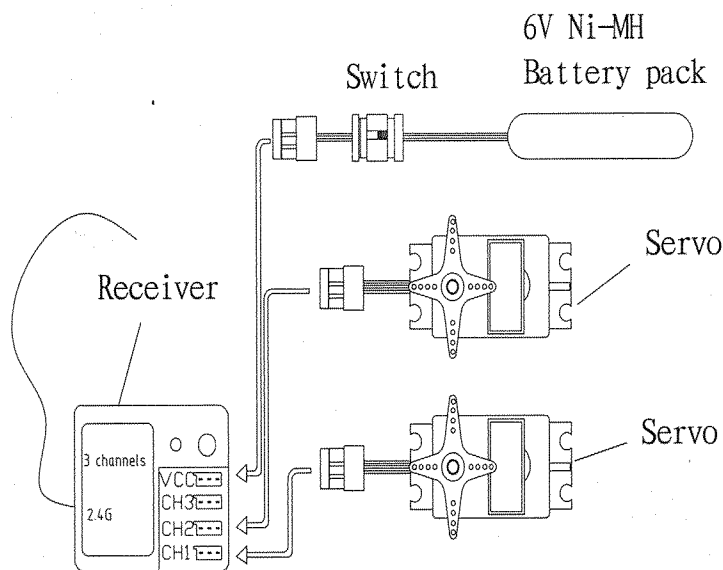
Description	Cause	maneuver
Engine hard to start	<ol style="list-style-type: none"> <li>1. Poor contact with the high voltage cable spark plug;</li> <li>2. Faulty fuel or water in fuel;</li> <li>3. Damaged cable sheath or disconnected cable;</li> <li>4. Spark plug with carbon deposition;</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-connected;</li> <li>2. Change with proper fuel;</li> <li>3. Cleaning or exchange;</li> <li>4. Cleaning or exchange.</li> </ol>
Easy flameout after starting	<ol style="list-style-type: none"> <li>1. Fuel tank without fuel;</li> <li>2. Clogging of cable or air-cleaner or muffler;</li> <li>3. Carburetor not adjusted;</li> <li>4. Engine overheating;</li> <li>5. Spark plug with carbon deposition or damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Refueling;</li> <li>2. Cleaning or exchange;</li> <li>3. Adjust carburetor;</li> <li>4. Cooling engine;</li> <li>5. Cleaning or exchange.</li> </ol>
Engine response is not good	<ol style="list-style-type: none"> <li>1. Carburetor adjustment is not good;</li> <li>2. Damaged cable sheath or disconnected cable;</li> <li>3. Spark plug with carbon deposition;</li> <li>4. Circuit fault.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust carburetor;</li> <li>2. Cleaning or exchange;</li> <li>3. Cleaning or exchange;</li> <li>4. Check the circuit, and troubleshooting</li> </ol>
Model car difficult to control	<ol style="list-style-type: none"> <li>1. Battery power of the receiver or the transmitter is not sufficient;</li> <li>2. Bad antenna reception;</li> <li>3. The servo is not a good tune.</li> </ol>	<ol style="list-style-type: none"> <li>1. Exchange;</li> <li>2. Pull the transmitter and the receiver antennas to longest, or exchange;</li> <li>3. Adjust servo.</li> </ol>

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### RECEIVER/SERVO CONNECTION

Receiver/servo share a power supply, this high-performance, environmentally friendly batteries (5 cells 6V Ni-MH battery pack) installed in a dedicated battery box.

- Attention:**
1. Ignition coil to the receiver/servo influential as far as possible away from it;
  2. Make sure the male and female connectors have the correct polarity (+/-) before connecting.



### OPERATING YOUR RADIO SYSTEM

It is important to learn the proper sequence for switching on/off your radio system.

#### Before operation

Switch on the transmitter, then the receiver.

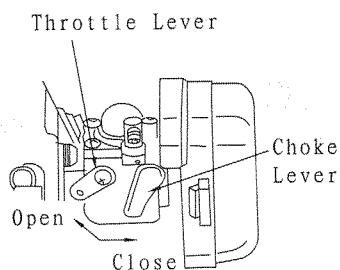
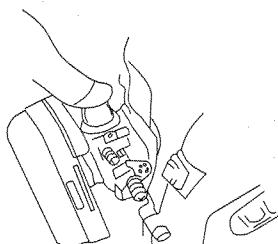
#### After operation

Switch off the receiver, then the transmitter. This ensures that you will always have a signal to the receiver and that your model car will not operate out of control when you turn off the transmitter.

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## STARTING THE ENGINE

1. Push the primer pump several times until overflow is out;
2. Close the chock lever, and move the throttle 1/4~1/3 open position;
3. Pull the starter quickly until first firing noise;
4. Open the chock, throttle idle about 1/4 open;
5. Pull the starter quickly;
6. Operate engine for a few minutes for the warming up.



**Attention:** 1. In case of engine warm condition, choking may not be necessary;  
2. Over choking may cause starting difficulty due to wet spark plug.  
In this case change spark plug or dry it, and remove fuel rest in the cylinder by pulling starter

## KILL SWITCH

When pressing the red button, the ignition circuit is short-cutted, and the engine turn off.

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### CLEANING

Frequent cleaning of your model car, it is very necessary.

1. Before cleaning, check the spark plug and fuel tank cap is covered. If necessary, use soft brush clean ;
2. If you are not careful the car into the water, you must use high-pressure gas and a clean soft cloth to clean;
3. After the cleaning, let the engine work for several minutes in idling state.

**Warning:** Do not touch the muffler and the engine when it is hot.

### STORAGE

If you do not use your model car more than 30 days, please note the following matter of protection:

1. Put a clean carburetors and fuel tank of the remaining fuel;
2. Coat the metallic materials surface with antirust;
3. Turn off the power switch or directly take off the batteries;
4. The storage place should be dry and not be subject too big temperature fluctuations;
5. Cover your model car with an air permeated tarp or blanket.

**Attention:** After a over 3 months storage, you should recharge batteries, and try to have a steering to make sure the functions are all in order.

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## TECHNICAL SPECIFICATIONS

1. Dimension (L×W×H): 790×440×320
2. Wheelbase: 520
3. Tread: 350/F 360/R
4. Engine: single cylinder, 2-stroke, air-cooled  
Displacement: 23cc      OR: Displacement: 26cc      OR: Displacement: 30cc  
Cylinder: 32      Cylinder: 34      Cylinder: 36  
Piston stroke: 28      Piston stroke: 28      Piston stroke: 28  
Carburetor type: WT      Carburetor type: WT  
Max. Power: 1.5Kw/11000rpm      Max. Power: 1.8Kw/11000rpm      Max. Power: 2.5Kw/11000rpm  
Max. Torque: 1.7N.m/9500rpm      Max. Torque: 1.75N.m/9500rpm      Max. Torque: 1.85N.m/9200rpm  
Starting system: hand pull  
Ignition: TDI
5. Fuel: Gasoline octane 93 (or above) + Synthetic oil  
Mix rate: 25:1  
Tank capacity: 0.5 L
6. Max speed: ≥65Km/h
7. Brake distance: ≤4m
8. Transmitter  
2 channels  
GFSK modulation  
Frequency: 2.4G  
Power: 12VDC (1.5AA\*8)
9. Receiver  
3 channels  
GFSK modulation  
Frequency: 2.4G  
Power: 6VDC 5 cells Ni-MH
10. Servo for throttle  
Torque: 9Kg.cm  
Size (L×W×H): 41×20×36
11. Servo for steering  
Torque: 20Kg.cm  
Size (L×W×H): 59×29×52
12. RC distance: ≥200m