

21012Front Ball Bearing - 7x19x6 mmE30010H30 Cylinder Complete SetE30032Supply Fuel Nozzle21016Carburetor Bolt Setting Pin/O-ringE30011O-ring Complete SetE30033Main Needle Value21018Silicone SealE30012Screws Complete SetE30034Carburetor Restrictor21023Head Cap Screws 3x8 mm for Rear CoverE30014CrankshaftE30035H30 Cylinder Head - Cast for21054Throttle Silicone CoverE30018Spring & Steel Ball for Crank Off Pull StarterE30036H30 Alum Burn Room - Star						
21018Silicone SealE30012Screws Complete SetE30034Carburetor Restrictor21023Head Cap Screws 3x8 mm for Rear CoverE30014CrankshaftE30035H30 Cylinder Head - Cast						
21023 Head Cap Screws 3x8 mm for Rear Cover E30014 Crankshaft E30035 H30 Cylinder Head - Cast						
21054 Throttle Silicone Cover E30018 Spring & Steel Ball for Crank Off Pull Starter E30036 H30 Alum Burn Room - Sta	ior RTR Car					
	andard					
E30001 H30 Cylinder Head - CNC Alum E30020 Carburetor Complete Set E30037 New Crank Off Set						
E30002 H30 Alum Burn Room - Turbo E30021 Carburetor Main Body E30038 New Rear Alum Mount for Crank	Off Pull Starter					
E30003 Head Cap Screws 3x16 mm E30022 Rear Back Cover for Without Pull Starter E30039 New Turn Tube for Crank C	Off Pull Starter					
E30004 H30 Head Gasket - Brass 19.4x23.8x0.1 mm E30024-1 Rear Ball Bearing - 14x25.4x6 mm E30040 New Turn Axle for Crank O	ff Pull Starter					
E30005 H30 Head Gasket - Alum 19.4x23.8x0.3 mm E30027 Throttle Rod Nut E30041 New Pull Starter Set						
E30006 H30 Cylinder Sleeve & Piston E30028 Sub Throttle Needle Value						
E30007 H30 Piston Pin & "G" Clips E30029 Carburetor Throttle						
E30008 H30 Connecting Rod E30030 Main Needle Hub Value Set						
>> HIGH QUALITY RADIO CONTROL MODEL5						



HOBAO ENTERPRISING CO., LTD. TEL : +886-2-2996-2229 FAX : +886-2-2996-8213 E-Mail : hobao@hobao.com.tw



## New 2016 Edition w/Blue or Orange Carb Insert.

Thank you for purchasing HoBao Racing products. We appreciate your choice.

## **Fuel Recommendations:**

We recommend using 20% Hobby Grade Nitro Fuel for 1/10th scale (.12-.18 Engine) and 30% for 1/8th scale (.21 and up). Other types of break-in additives are NOT required.

Engine Needle Settings:						
(		Factory Default	After Break-in			
	Top End (High Speed)	3 turns out	2 1/2 turns out			
	Bottom End (Low Speed)	1/2 turn out from flush	Flush with ball collar			
	Mid Range	Flush - Do not Touch	Flush - Do not Touch			
τ	Idle Screw	1mm (1/16 inch)	1mm (1/16 inch)	)		
Bottom End Needle (Low Speed) - This needle provides throttle response.   Do not adjust this needle until the Master Needle is set for power and top speed.   Turning IN is Lean and OUT is Rich   Image: A set of the side of the carb.   Interview of the side of the carb.   Do not adjust this needle until the Master Needle is set for power and top speed.   Image: A set of the side of the carb.   Determines maximum RPM and power. Turning IN is Lean and OUT is Rich   Interview of the side of the carb.   Determines maximum RPM and power. Turning IN is Lean and OUT is Rich   Interview of the side of the carb.   Do not adjust ingle:   Determines maximum RPM and power.   Interview of the side of the carb.   Do not adjust ingle:   Determines maximum RPM and power.   During IN is Lean and OUT is Rich						

## New Engine Break-In:

1. A brand new HoBao Racing engine is extremely tight due to high compression. This is normal for a new ABC piston/sleeve engine. The piston and sleeve are matched for fit and the top of the sleeve is tapered for a tight compression fit. Your engine is pre-set out of box. You will not need to adjust anything during break in. If you have adjusted the needles prematurely, please refer to the engine setting above for details. (Do NOT over rev the engine without breaking it in first.)

2. First, please make sure the carburetor is closed to only 1mm opening. To start the engine, prime fuel by placing finger over exhaust pipe outlet and pulling the starter several times. This will push fuel to the carburetor. Then, place glow starter on the glow plug (located in the center of the cooling head), pull the starter handle with short quick pulls. Engine should start immediately. If not, check fuel line for fuel movement. Do not over prime your engine as it will cause engine flooding. Only prime the engine until fuel just enters the carburetor.

3. Once the engine starts, heat cycle the engine during break-in procedure. Let the engine idle without the car moving for 3 full tanks of fuel. Allow the engine to cool down for 5 minutes in-between each tank. If the engine's RPM is too high or stalling out, please refer to the engine setting above and confirm the needles have been set correctly. Engine temperature should be in-between 100-150F degrees (37-65 degree Celsius).

4. After completing the first 3 tanks, you can now adjust the top end needle IN 1/4 turn to improve performance. Continue to let engine idle or drive around slowly without over revving the engine for 2 additional tanks of fuel. Allow the engine to cool down for 5 minutes in-between each tank.

5. Break-in procedure is now completed. You can now begin to adjust it for maximum performance. The first thing you should check is to make sure the carburetor is fully opened when you full throttle. Keep adjusting needle until engine is running at a good speed without being too hot. Remember to always check engine temperature. It should NEVER exceed 250F degrees (120 degree Celsius). The optimum temperature for best engine life is 180-220F degrees (82-104 degree Celsius).

>> HIGH QUALITY RADIO CONTROL MODELS

