

New 2016 Edition w/Blue or Orange Carb Insert.

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

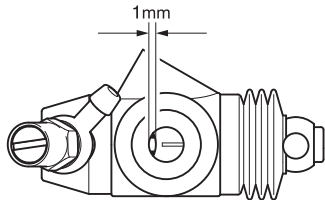
Fuel Recommendations:

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.

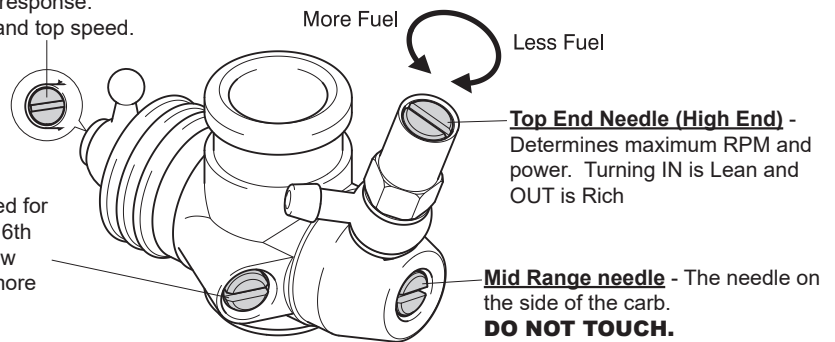
Engine Needle Settings:

	Factory Default	After Break-in
Top End (High Speed)	2 ½ turns out	2 – 2 ¼ turns out
Bottom End (Low Speed)	½ turn out from flush	Flush with ball collar
Mid Range	Flush - Do not Touch	Flush - Do not Touch
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



Idle / Stop Screws - Used for adjusting Idle: Set for 1/16th inch/1mm gap to start new engines. You can open more for higher idle.



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).

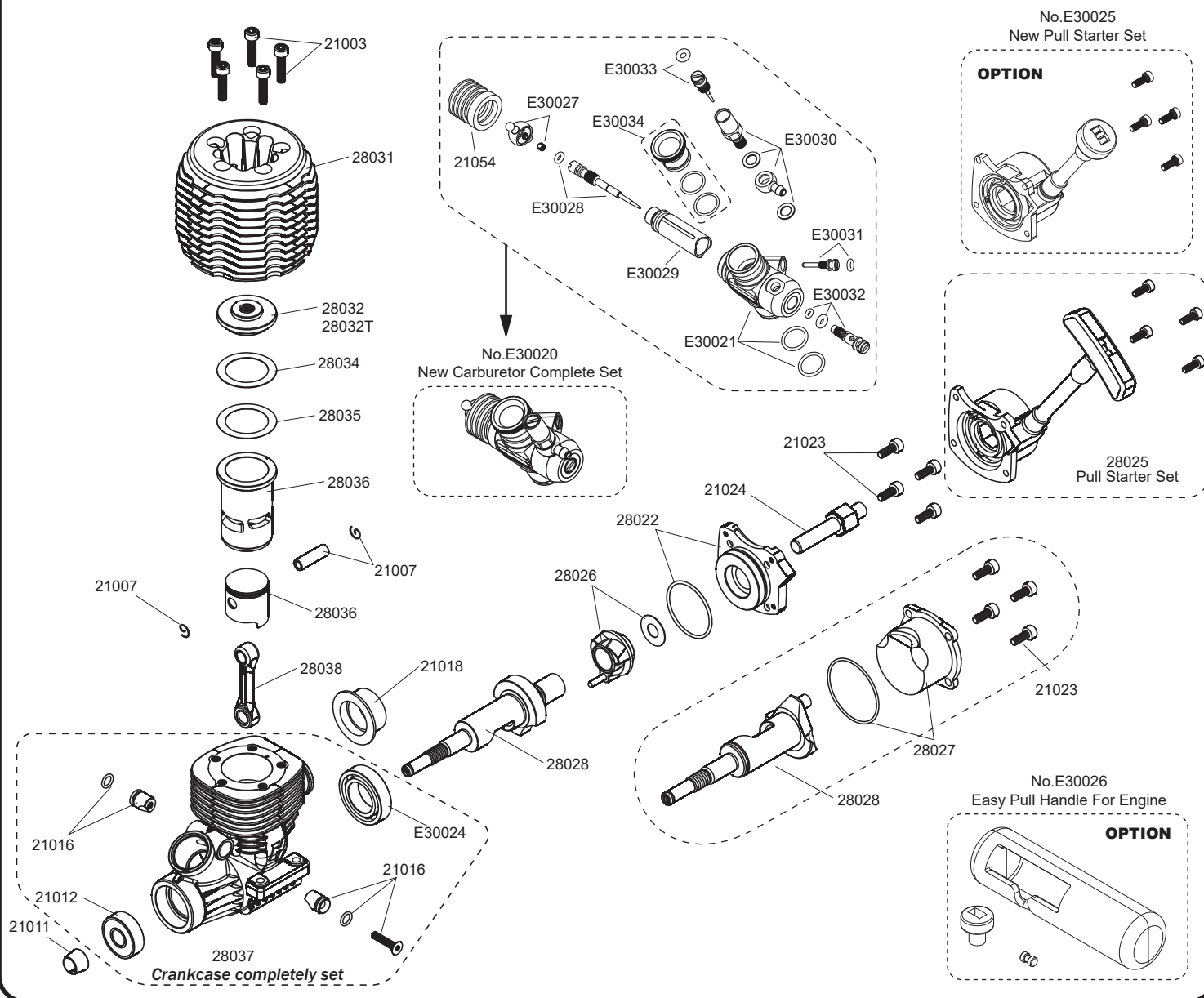
HYPER 28

PURE COMPETITION

Nitro Engine Instruction

HIGH POWERFUL ENGINE

>>> Professional Best



Hyper 28 Engine Parts List

Part#	Name	Part#	Name	Part#	Name
21003	Head Cap Screws, M14x3.5, 4 pcs	28028	Crankshaft for Pull Starter	E30021	Carburetor Main Body
21007	H21 Piston pin & "G" clips	28031	H28 Cylinder Head	E30024	Rear Ball Bearing - 14x25x6 mm
21011	Brass cone/washer, 2pcs	28032	H28 Alum Burn Room (Standard)	E30025	Easy Pull Starter Set
21012	Ball Bearing - 7x19x6mm	28032T	H28 Alum Burn Room (Turbo)	E30026	Easy Pull Handle For Engine
21016	Carburetor Bolt Setting pin/o-ring	28034	H28 Head Gasket-brass-.0.1mm, 2pcs	E30027	Throttle Rod Nut
21018	Silicon Manifold seal, 2pcs	28035	H28 Head Gasket-alu-.0.3mm, 2pcs	E30028	Sub Throttle Needle Value
21023	Rear Cover Screw - M3x8, 4pcs	28036	H28 Cylinder Sleeve & Piston	E30029	Carburetor Throttle
21024	Hex Axle	28037	H28 Crankcase Complete set	E30030	Main Needle Hub Value Set
21054	Throttle Silicone Cover	28038	H 28 Connecting Rod	E30031	Throttle Adjustable Screw
28022	Pull Rear Cover & O-ring	28040	H28 Cylinder Complete Set	E30032	Supply Fuel Nozzle
28025	Pull Starter Set	28041	Complete Screws Set	E30033	Main Needle Value
28026	Turbo Fan & Steel Waher	E30011	O-ring Complete Set	E30034	Carburetor Restrictor
28027	Rear Back Cover for Without Pull Starter	E30020	Carburetor Complete Set		

>>> HIGH QUALITY RADIO CONTROL MODELS

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