

ENGINE INSTRUCTION MANUAL .18

TEAM INFINITY



Hobbies Creative International Co., Ltd.

INTRODUCTION

Congratulations on your purchase of TEAM INFINITY engine. This engine has been designed by industry experts in engine design and manufacturing techniques.

Only the latest CAD/CAM equipment has been used in the design and manufacture of your engine.

Major engine components are machined from the highest quality materials using state-of-the art CNC manufacturing techniques, resulting in consistently high performance and reliability.

This engine is equipped with dual ball-bearings, Schnuerle porting and mixture control carburetors.

IMPORTANT

Be certain to completely read all of the instructions supplied with you engine, and pay close attention to the part of "SAFETY INSTRUCTIONS".

When a pull type starter is equipped, pull up the grip to start the engine.

* DO NOT EVER PULL THE ROPE MORE THAN 30cm.

SPECIFICATION

Displacement	2.85 c.c.
Bore	16.4 mm
Stroke	13.5 mm
Practical RPM Range	4,500 ~28,000 R.P.M.
Weight	255.5 g

SAFETY INSTRUCTIONS

~Before starting product operation~

- * Read these "Safety instructions" and "Instruction manual" carefully, before you operate your engine, so that you can use it properly.
- * Keep these manuals in a place so you know where they are at all times.
- * Follow the instructions shown here carefully. These manuals will help to prevent injuries to users and other as well as protecting objects from damage.

Graphic indications

The following words and graphic indications are used in these instruction manuals. Be sure you understand these meanings fully before reading the text.

	Danger: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	Warning: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Caution: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderated injury, or damage of objects nearby.

Example of graphic indications:

The mark urges warning or caution. The illustration indicates the contents of the warning or cautions. This graphic means be careful of high temperatures.	The mark indicates actions are prohibited. The actions prohibited are indicated in or near the illustration. This left graphic means do not touch.	The mark compels or instructs certain actions. You must follow them carefully. This graphic means compulsory.

Remember that the engine you have purchased is not a toy. It is a precision manufactured machine. You must understand that this machine can injure to you or other nearby. It can also damage property. It is very important to pay attention as indicated in this manual. Improper use of the machine can be very dangerous. You must always remember that you alone are responsible for operating your engine safely. Act with discretion and pay special attention at all times.

Installing the engine and components

Danger

When you break-in your engine by a propeller, never use a propeller that has any cracks, scratches, or even the slightest signs of breakage. Never modify, bend, or shave the propeller. The propeller breaking or flying off during operation may cause injury.

Warning

Fix the engine to the model body firmly, using tough bolts and nuts with lock washers to prevent loosening. Do not clamp the engine in a vise. To test the engine, use a durable engine test stand sold in model shops. If not fixed perfectly, it may cause the engine to jump off the stand during operation.

Starting the engine

Warning

Never operate the engine in an enclosed area such as a basement or a garage. Model engines like automobiles also emit gas poisonous to humans during operation. Only operate the engines outdoors where there is good ventilation.

When you operate an engine, keep children and other who might be hurt away from you and the engine. Anyone who is not operating the engine must be at least 6 meters away from the engine. If the propeller or engine fly off, it may cause injury.



Prohibition

Keep loose objects such as shirt sleeves, neckties, and scarves away from the spinning tires, propeller, flywheel and gear. Be careful not to drop utensils such as screwdrivers and pencils into the spinning tires, propeller, flywheel and gear. If these objects contact the spinning propeller, it may cause the propeller to break and fly off.



do not touch

Make certain the glow plug clip or booster cables is not in the way of the spinning tires, propeller, flywheel and gear. If they contact the spinning tires, propeller, flywheel and gear, it may cause damage.

Caution



Prohibition

Never start the engine by spinning the propeller with your fingers. Your fingers can be cut or cut off by the propeller when it starts spinning. For starting the engine, use a safe stick for engine starting or an electric starter. Either way, carefully read the instruction manual attached to the product, and follow the instructions.



Compulsory

Recommend wearing safety eyeglasses or safety shields when you operate an engine.



Inflammable

Remember that the model engine fuel is highly flammable and must be handle with the extreme caution. Keep the objects creating fire risks such as cigarettes away from the engine and fuel supply system. There should be no smoking person nearby.

Operating the engine

Warning



Prohibition

Keep your face, hands, and body away from the spinning tires, propeller, flywheel and gear surface to prevent severe injury. If the tires, propeller, flywheel and gear breaks, pieces may hit your face or body.

Instructions after operation and related matters

Warning



Inflammable

Fuel is easily flammable. The fuel storage place must always be safe. Avoiding places where sparks may occur, temperature is high, or fuel becomes highly inflammable. Mishandling may cause fires. Keep all engine fuel in a safe place away from any danger of sparks, excessive heat or anything which could ignite the fuel.



Compulsory

Fuel for model engines contains highly volatile and poisonous ingredients such as methanol. Store the fuel where small children cannot reach it, so that children cannot have accidents. If someone's skin or face has been splashed with fuel, first wash it away with soap and water. Then consult a doctor. If you swallow fuel, immediate medical treatment from a doctor is imperative. Failure to undergo such treatment may endanger your life.



Prohibition

Do not operate the model installed with the engine alone. Airplanes, helicopters, boats, or automobiles powered by model engines may harm other persons or objects, if you loose control for some reason. Remember that operating any model with your engine requires skill and continuous safety precautions. When you operate a model, you should ask an experienced person who can accompany you, recognize the situation nearby in an emergency, and has enough experience in avoiding possible dangers.

Caution



Elevated Temperature

Never touch any part of the engine while it is running, or immediately after the engine has stopped. Some portions of model engines become considerable heat during operation. If you touch them carelessly, you may get burned.

FUEL

A good quality commercially available fuel containing between 15% and 30% nitro-methane is recommended for car use.

We also recommend castor oil or a castor/synthetic blend only for use as a lubricant. Most fuels containing synthetic lubricants (only) are much less tolerant of a lean run compared to fuel that contains castor oil. If availability or local conditions force you to use a fuel that contains only synthetic lubricant, we suggest that you keep your needle valve set to a slightly richer setting, allowing more lubricant to flow through your engine to extend engine life and maintain optimum reliability.

GLOW PLUG

The type and quality of glow plug used in your engine will have a major impact on overall performance and reliability.

This engine operates best with a plug such as TEAM INFINITY Silver and Gold, Nova Rossi, O.S. No.8 or ENYA No.3 and No.4.

BREAK-IN PROCEDURES

Because your TEAM INFINITY engine has been precision-made from quality materials and a prolonged break-in period is not necessary.

In fact, after 4-5 tanks on the ground, your engine can be flown to break it in. We strongly recommended a fuel containing 20% castor oil or castor/synthetic blend with no more than 10% nitromethane be used for break-in.

We strongly discourage using fuel containing only synthetic lubricants during the initial break-in period.

CARBURETOR ADJUSTMENT

The carburetor is specially designed to use for the high performance engine and those are able to provide it proper air-fuel mixture automatically.

Since the carburetor has been set to obtain an approximate best result at factory, in most case, large adjustments of this carburetor may not be required. However, under different operation conditions such as fuels, glow plugs, weather condition. Minor re-adjustments may be required.

IMPORTANT

Before try to adjust the carburetor, please note and understand the following matters.

Carburetor setting should always be made after the engine has been brought up to normal operating temperature; this is accomplished by running the vehicle for a minute or so.