

IMPORTANT NOTES

- *This radio controlled helicopter is not a toy.
- *This radio controlled helicopter can be very dangerous.
- *This radio controlled helicopter is a technically complex device which has to be built and handled very carefully.
- *This radio controlled helicopter must be built following these instructions. This manual provides the necessary information to correctly assemble the model. It is necessary to carefully follow all the instructions.
- *Inexperienced pilots must be monitored by expert pilots.
- *All operators must wear safety glasses and take appropriate safety precautions.
- *A radio controlled helicopter must only be used in open spaces without obstacles, and far enough from people to minimize the possibility of accidents or of injury to property or persons.
- *A radio controlled helicopter can behave in an unexpected manner, causing loss of control of the model, making it very dangerous.
- *Lack of care with assembly or maintenance can result in an unreliable and dangerous model.
- *Neither SAB Heli Division nor its agents have any control over the assembly, maintenance and use of this product. Therefore, no responsibility can be traced back to the manufacturer. You hereby agree to release SAB Heli Division from any responsibility or liability arising from the use of this product.

SAFETY GUIDELINES

- *Fly only in areas dedicated to the use of model helicopters.
- *Follow all control procedures for the radio frequency system.
- *It is necessary that you know your radio system well. Check all functions of the transmitter before every flight.
- *The blades of the model rotate at a very high speed; be aware of the danger they pose and the damage they may cause.
- *Never fly in the vicinity of other people.

DAMAGE LIMITS

SAB HELI DIVISION SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, in no event shall the liability of SAB Heli Division exceed the individual price of the Product on which liability is asserted. As SAB Heli Division has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly the user accepts all resulting liability. If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

LIMITED WARRANTY

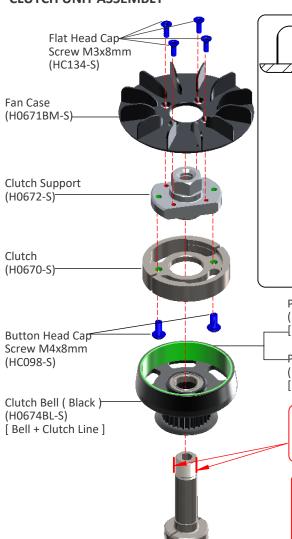
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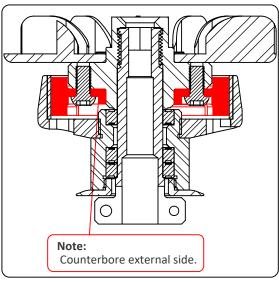
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- (b) Limitations- SAB HELI DIVISION MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NONIFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.
- (c) Purchaser Remedy- SAB Heli Division's sole obligation hereunder shall be that SAB Heli Division will, at its option, replace any Product determined by SAB Heli Division to be defective In the event of a defect, this is the Purchaser's exclusive remedy. Replacement decisions are at the sole discretion of SAB Heli Division. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance or attempted repair by anyone.

ENGINE UNIT ASSEMBLY









Pulley Assembly (Black) (H0675BL-28-S)[SG651] -[Pulley + Bearing]

-Pulley Assembly (Black) (H0675BL-26-S)[SG711] [Pulley + Bearing]

IMPORTANT NOTE

Don't use any retaining compound in red area between H0668 and H0672.

Note:

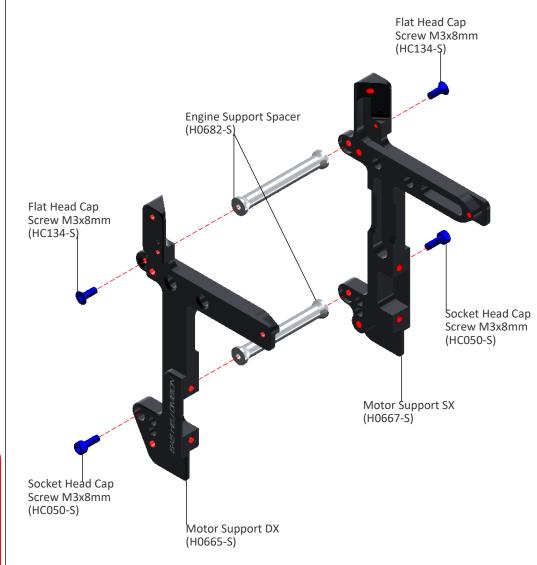
Use the shaft depending on your motor.

Shaft YS Motor (H0668-A-S) Shaft OS Motor (H0668-B-S)

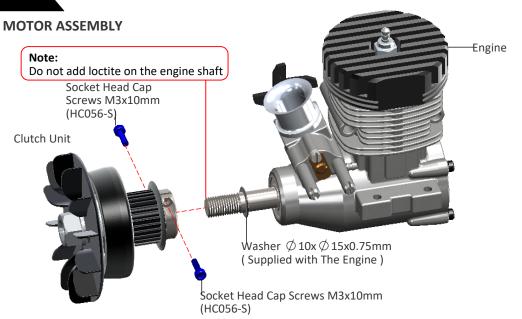


ENGINE MOUNT ASSEMBLY

BAG 1







NOTE:

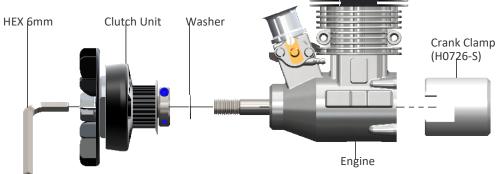
Using H0726 (accessory not included in the kit) you can easily tighten the assembly onto the engine shaft.

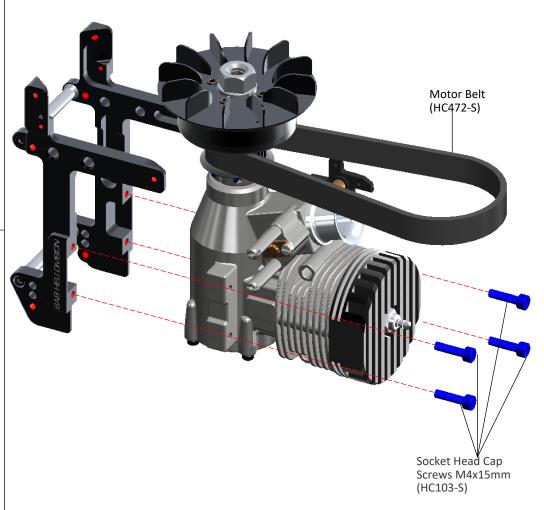
With a 6mm hex driver, you can tighten the clutch unit.

IMPORTANT:

Tighten first the clutch unit with a hex tool against the engine bearing. Only after this step, tighten the 2 M3x10 screws.







ENGINE UNIT ASSEMBLY



BAG 2

INSTALLATION OF THE RPM SENSOR

NOTE:

Standard Gear Ratio with 26T engine pulley >> 8.23

On the Goblin, you can use two different solutions to install an RPM sensor. The first is a backplate sensor, please look at the following pictures for how to install it.

P.S: Not all YS engines can support this style of sensor, please check with your specific engine.

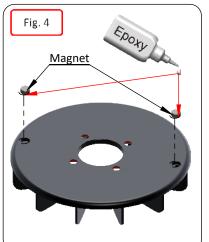


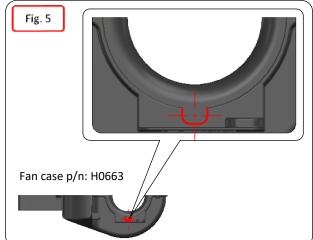
The second is to use two magnets on the fan. Please install it in this way:

Install 2 magnets on the fan with epoxy glue (before, clean part with some degreaser [Fig. 4]). You have to cut open a small slot on the fan case. [Fig. 5].

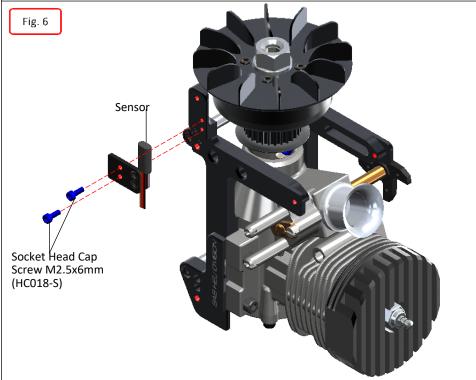
To install the sensor, you can use the two M2.5 holes [Fig. 6]. Not all sensors are the same, so you can adapt the position with the carbon support (H0729).

With the Align sensor and the Spartan sensor, you can use the part of the support that already has holes in it. With any other sensor, you can use the part without holes and adapt as needed.

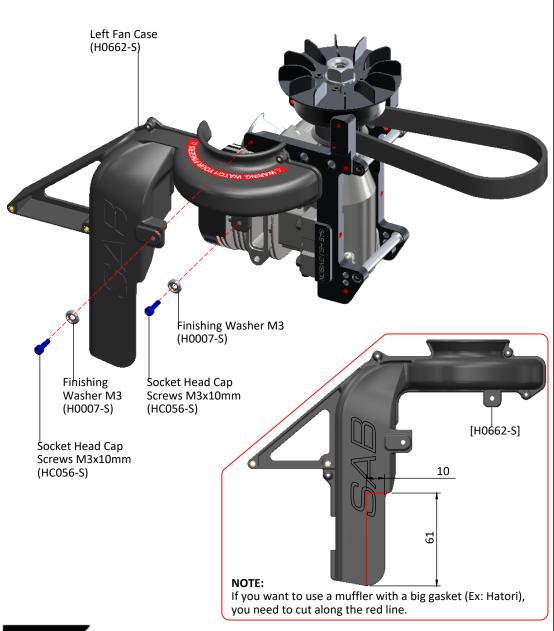


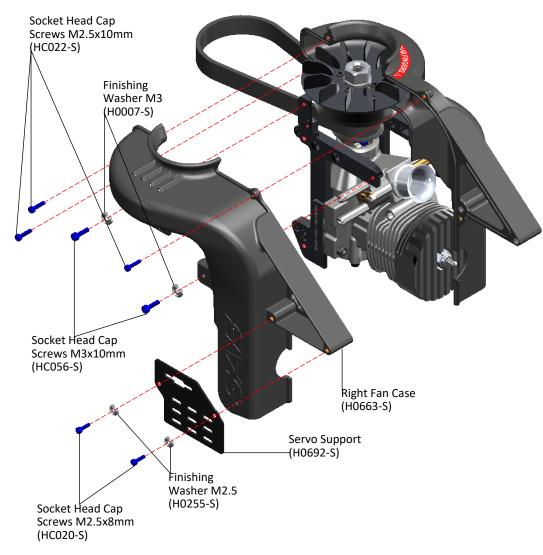








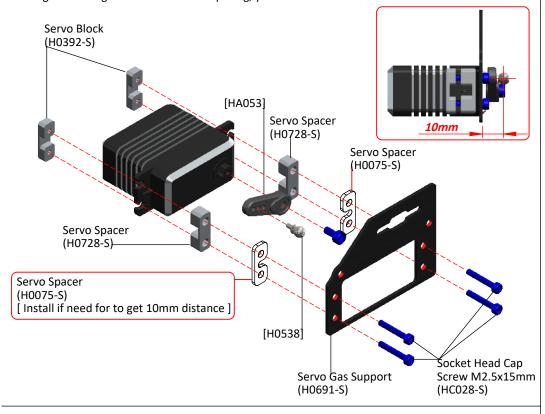






When installing the throttle servo, It is important to have the correct distance for the ball.

Using H0728 to get the correct servo spacing, you can also use H0075 if needed.



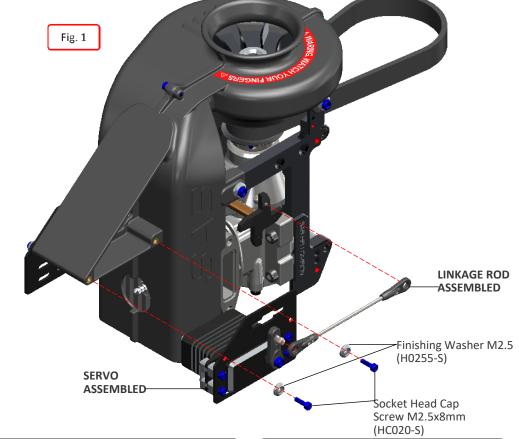
LINKAGE ASSEMBLY



Install the throttle servo support as shown in Figure 1.

In **Figure 2** you can see a typical installation with YS engine.

In Figure 3 you can see a typical installation with OS engine.



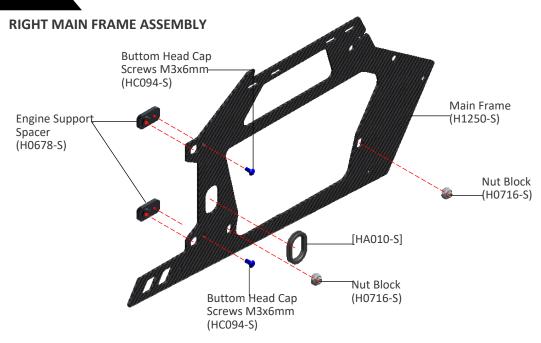


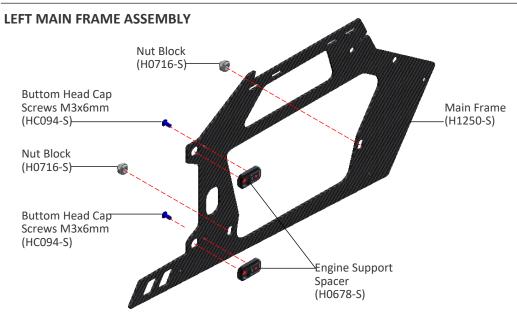


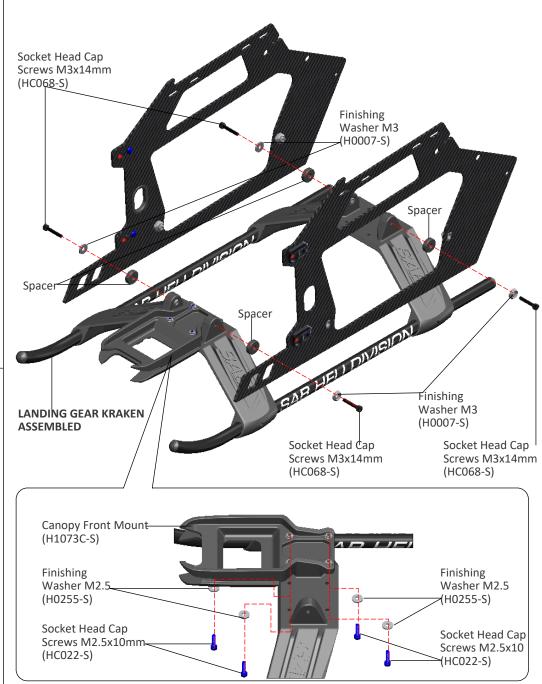
FRAME GROUP ASSEMBLY



BAG 5

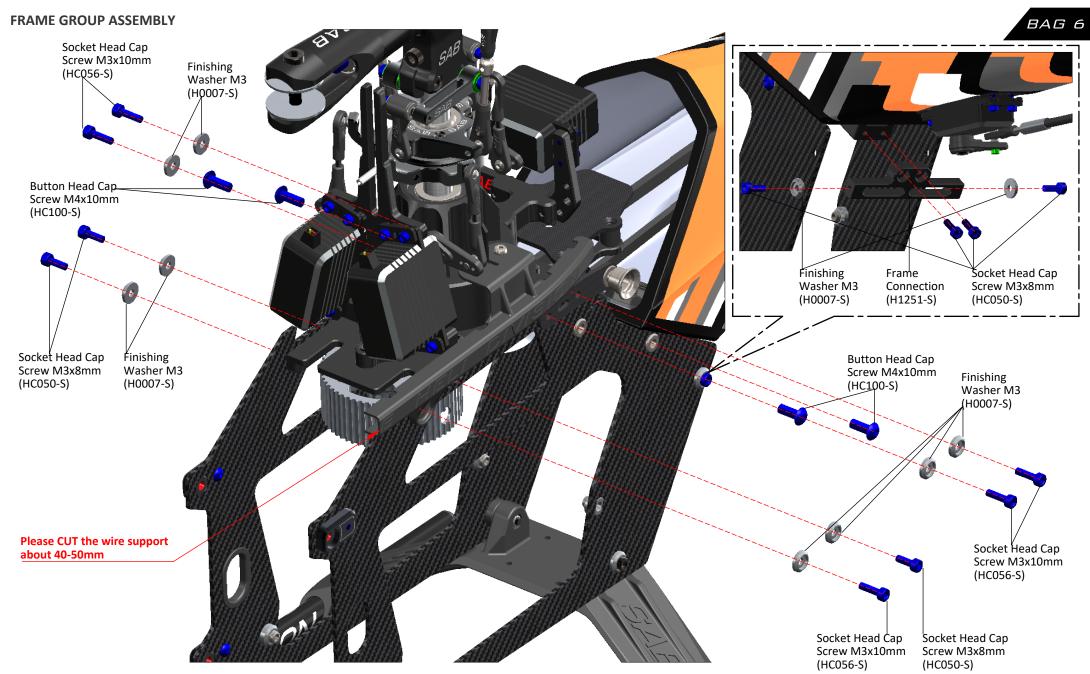






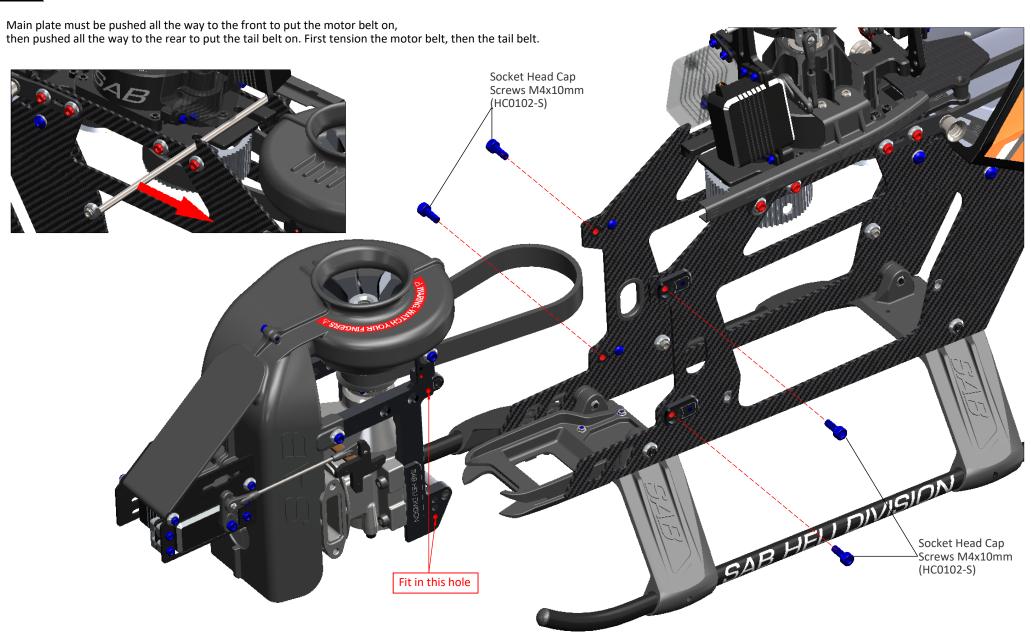
FRAME GROUP ASSEMBLY





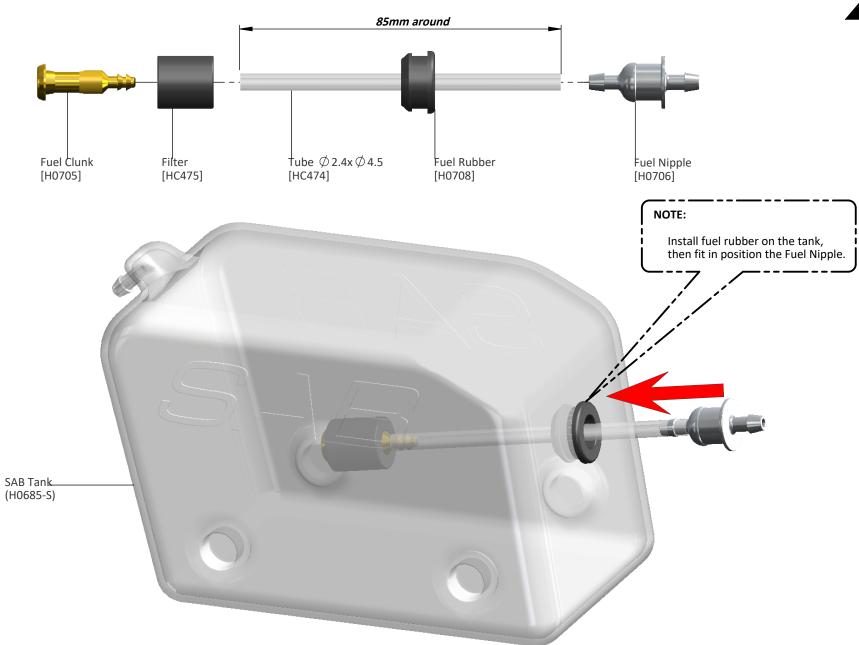


Note:



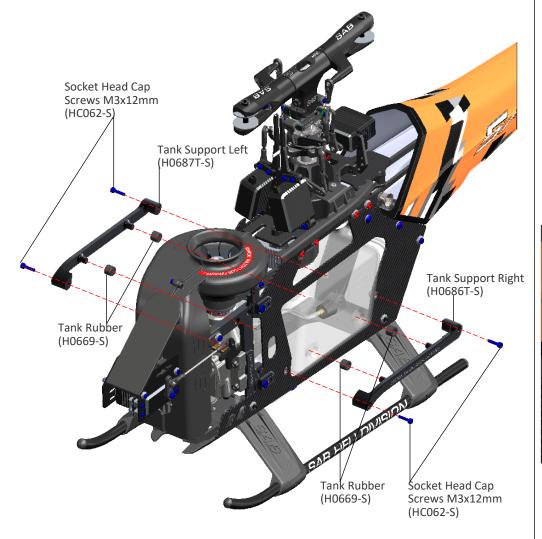


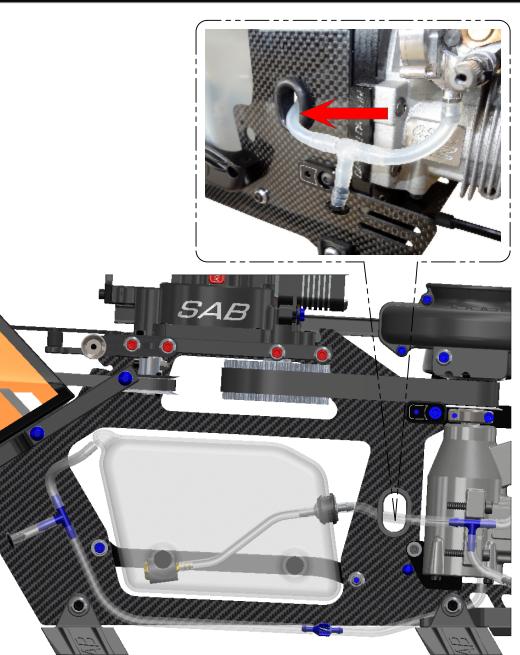
TANK LINE ASSEMBLY





TANK ASSEMBLY







Bag 9

Making the conversion you will not need these Parts:

BAG 9

- Carter connection
- Carters
- Side frames
- Motor mount
- Motor belt
- Motor pulley
- ESC Mount
- Battery tray system/battery trays

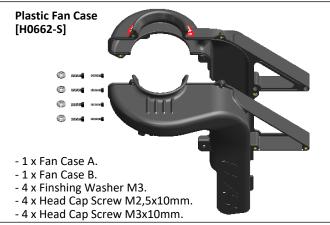
It is important that you trim the canopy in order for it to clear the muffler, you can use the template provided, but we highly recommend that you check the fitment as the amount of trimming might be different depending on the muffler to be used. It is also important that you trim the bottom of the canopy as shown below to improve air flow. Finally, you can also trim the canopy for easier access to the carburetor needles as well as the starter rod. However, this is optional and for convenience of starting and tuning.

You can use the mask included to trim the canopy:

- Muffler
- Air flow
- Carburator needles
- Starter rod









Motor YS Shaft [H0668-A-S]

- 1 x Motor YS Shaft.

Motor OS Shaft [H0668-B-S]



Steel Clutch [H0670-S]



- 1 x Steel Clutch.
- 2 x Button Cap Screw M4x8mm.

Aluminum Engine Fan [H0671BM-S]



- 1 x Aluminum Engine Fan.
- 4 x Flat Head Cap M3x8mm.

Aluminum Clutch Support [H0672-S]

- 1 x Motor OS Shaft.



- 1 x Aluminum Clutch Support.

Aluminum Clutch Bell [H0674BL-S]



- 1 x Aluminum Clutch Bell.
- 1 x Clutch Line.

Aluminum Engine Pulley 26T-28T [H0675BL-26-28-S]



- 1 x Z26-Z28 Nitro Pulley.
- 1 x Nitro Pulley Flange.
- 3 x Radial Bearing \emptyset 12x \emptyset 18x4mm.





- 4 x Engine Frame Spacer.
- 4 x Button Cap Screw M3x6mm.



- 1 x SAB Fuel Tank.
- 1 x Fuel Rubber 60 Shore.



- 1 x Tank Support Right.
- 1 x Tank Support Left.
- 4 x Socket Head Cap M3x12mm.
- 4 x Tank Rubber 50 shore.

Carbon Fiber Support Set [H0690-S]



- 1 x CF Servo Gas Support.
- 1 x CF Accessories Support.
- 1 x Cf Sensor Support.

SAB Fuel Sucker [H0705-S]



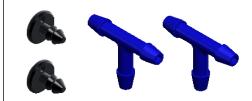
- 1 x Fuel Clunk.
- 1 x Tube \emptyset 2.4x \emptyset 4.5x100mm. 1 x Filter \emptyset 6 x \emptyset 13.5x15mm.

SAB Fuel Nipple [H0708-S]



- 1 x Fuel Nipple.
- 1 x Fuel Rubber 60 Shore.

SAB Fuel Stop [H0715-S]



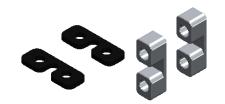
- 2 x SAB Fuel Stop.
- 2 x T Connector.

Carbon Insert M3 [H0716-S]



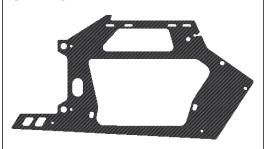
- 4 x Carbon Insert M3.
- 4 x Nylon Nut M3.

Aluminum Servo Spacer [H0728-S]



- 2 x Aluminum Servo Spacer.
- 2 x CF Servo Spacer.

Kraken Nitro Main Frame [H1250-S]



- 1 x Kraken Nitro Main Frame.

Kraken Nitro Main Frame Spacer SET [H1251-S]

