

鉄腕

1/8SCALE

RACING BUGGY ZERO

ドーム・ゼロ

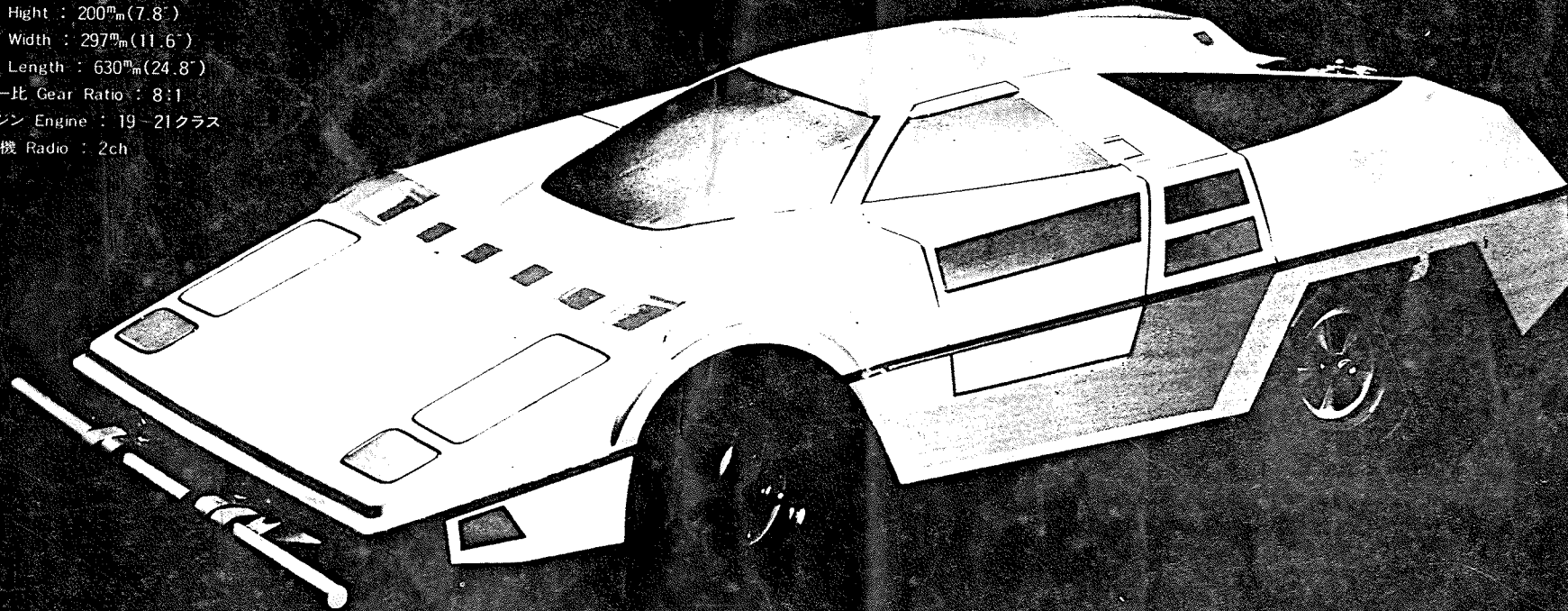
DOME

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組み立て説明書
ASSEMBLING INSTRUCTION



- ホイルベース Wheel Base : 290^{mm}(11.4")
- フロントトレッド Front Tread : 230^{mm}(9.0")
- リヤトレッド Rear Tread : 220^{mm}(8.6")
- フロントタイヤ径 Front Tire Dia : 96^{mm}(3.7")
- リヤタイヤ径 Rear Tire Dia : 105^{mm}(4.1")
- 車高 Height : 200^{mm}(7.8")
- 車巾 Width : 297^{mm}(11.6")
- 車長 Length : 630^{mm}(24.8")
- ギャー比 Gear Ratio : 8:1
- エンジン Engine : 19-21クラス
- 無線機 Radio : 2ch

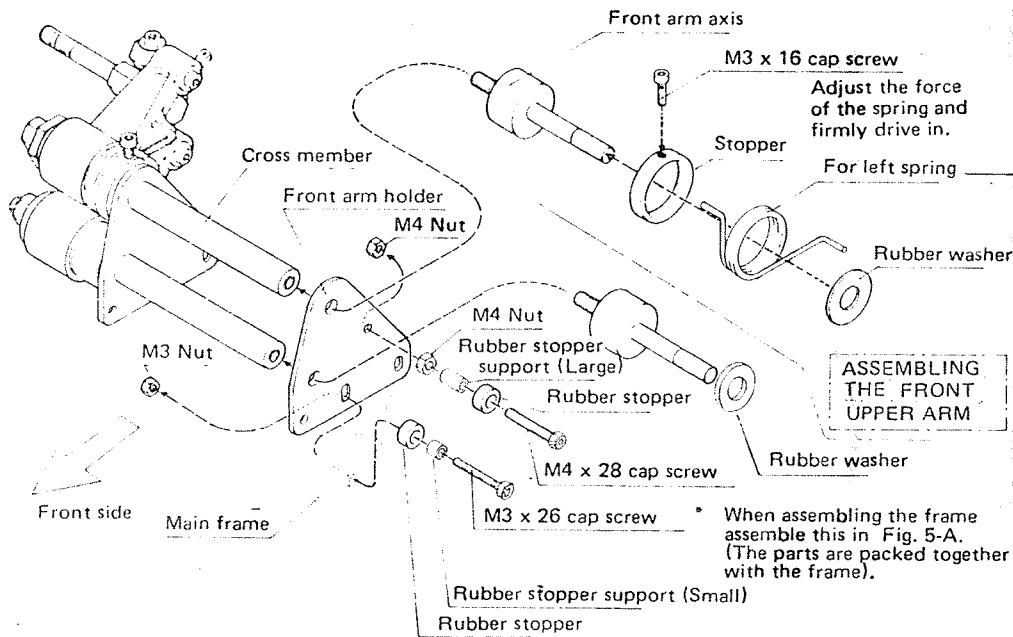


<p>TOOLS necessary for assembling —————</p> <p>Cutting plyer, Drill, Painting set, Plus driver Cutter knife, Plug wrench, and file</p>	<p>COMPONENTS necessary for running ———</p> <p>Engine plug, Battery, Fuel, Cross head wrench, Electric cord for power supply, Fuel pump, and Starter unit</p>	<p>ENGINE suitable for this model kit —</p> <p>(a). OS10FSR (b). Enya 09III-TV</p>
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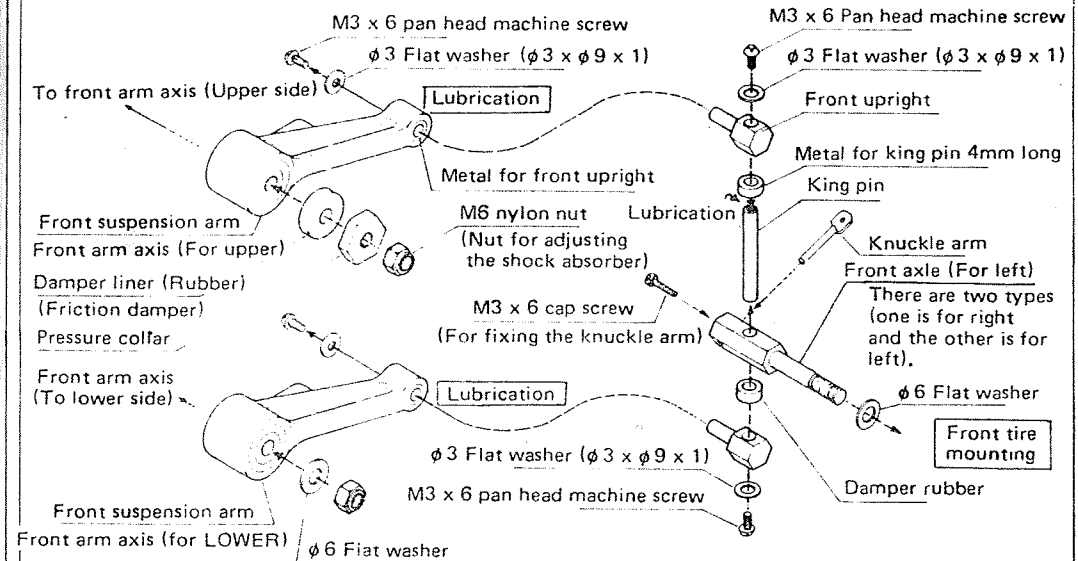
1. ASSEMBLING FRONT AXLE

1 - A Assembling View (The illustration below shows the left side of the body)

There are two types (one is for left and the other is for right) Use it with making no mistake.

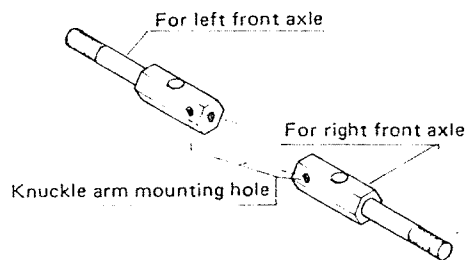


1 - B The illustration below shows the left side. Mount and assemble the right side as well as the left.

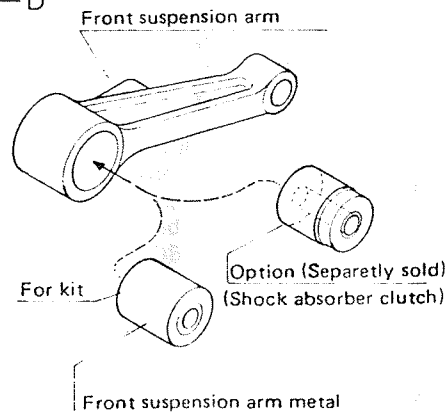


True up the mounting length at both right and left sides. Then, mount them by M3 x 6 cap screw.

1 - C



1 - D



1. Take out the parts of the front axle from the mechanism box.
2. Assemble the parts in accordance with the illustrations. The front arm holder is of a long slit (groove) in order to adjust the angle of king pin caster (15° to 20°). Then, coincide the right angle with that of the left side. After that, clamp them together.

Notes:

- (1). To give a shock absorbing effect to the suspension, clamp the pressure collar and give some adequate friction to it with no spring actuated.
- (2). Clamp the spring after the friction is well adjusted. However, it is recommended that the spring is clamped after it is mounted at the frame.



To heighten the running capacity, provide your car with a shock absorber clutch for the front, which is separately sold (Option).

View of practical sizes

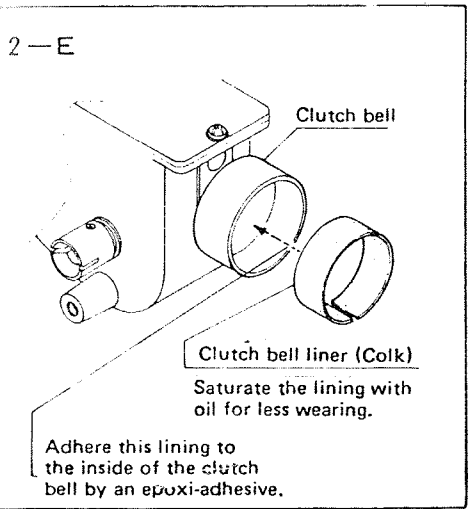
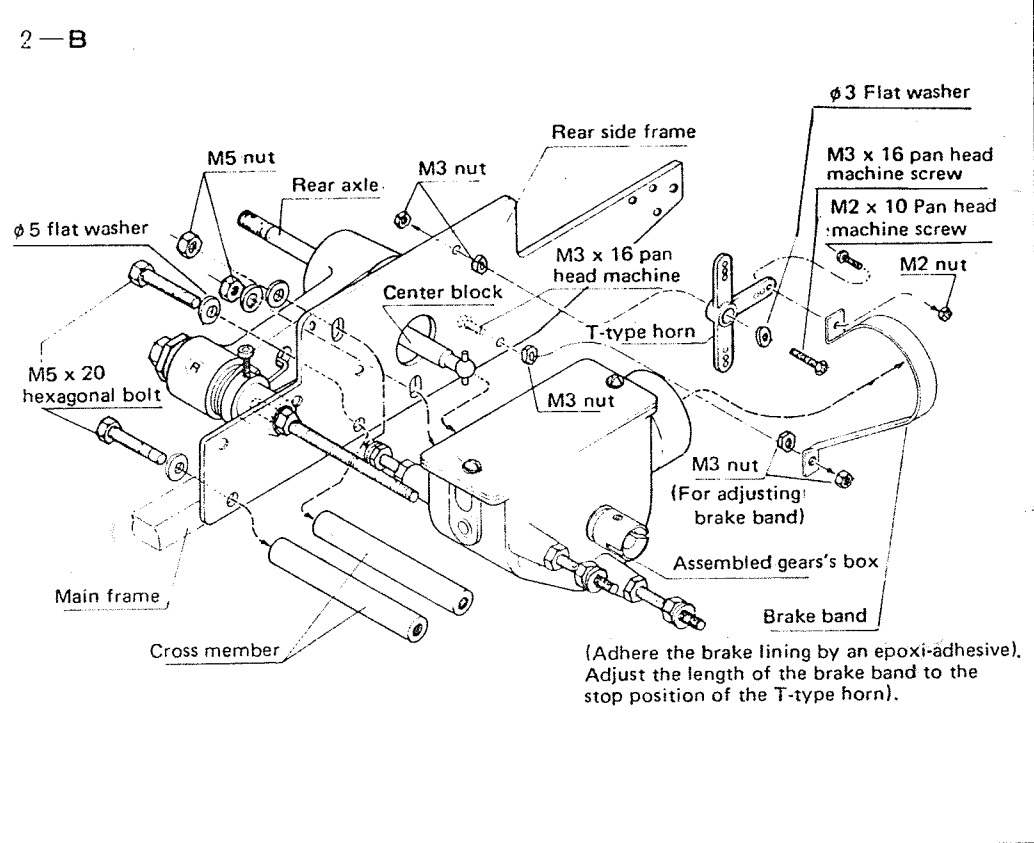
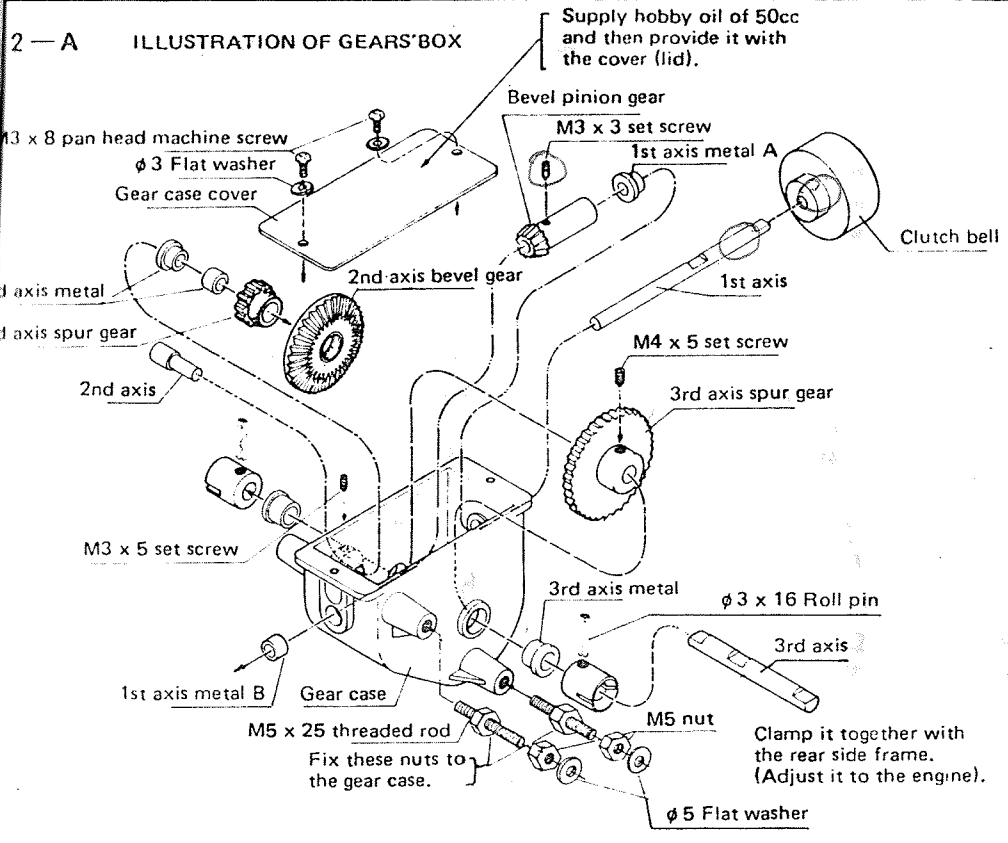
M3 x 6 pan head machine screw

M3 x 6 Cap screw

M3 x 16 Cap screw

M3 x 26 Cap screw

M4 x 28 Cap screw

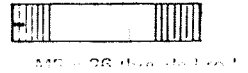
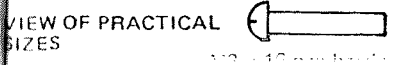


The gears' box is a completed unit including the center block, and the rear axle in addition to the above parts shown in the illustration. Before running, never fail to supply 5 to 10cc of the accessory hobby oil 50.

** The hobby oil 50 is the highest quality oil which is added by molybdenum bisulfide lubricant by 2%. After disassembling and maintenance, never fail to use HIROBO HOBBY OIL 50.

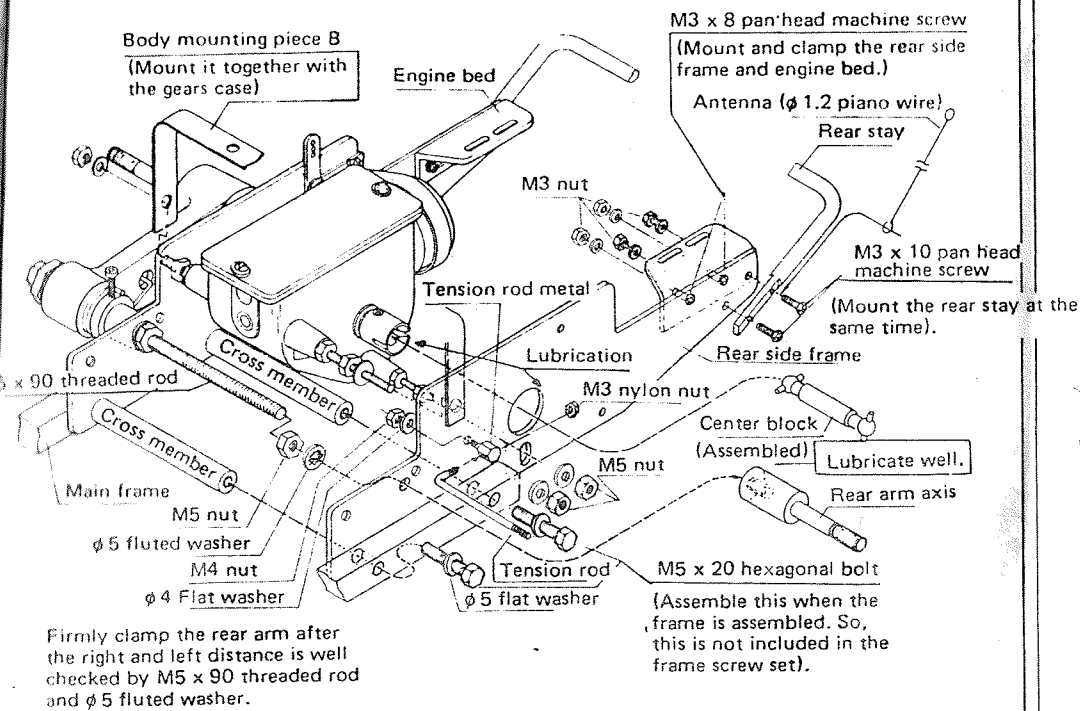
300 Yen (50cc)

1. Take out the necessary parts for the rear axle from the mechanism box.
2. When mounting the gear case at the rear side frame, centering is required in relation to the engine. So, firstly, temporarily set it in a position. At this time, it is better that the body-mounting metal pieces B are fitted altogether.
3. Provide the rear axle axis with a φ 5 fluted washer. Then, clamp it firmly.
4. In accordance with the illustration 2-D, assemble both right and left rear suspension arms. Pay attention to the right side or the left side of the rear suspensions when mounting them. the arm for right is marked by R and the left one is marked by L.
5. For mounting the gears box:
Mount the gears' box at the rear side frame by M5 x 25 threaded rod. Firstly, determine the mounting position of the engine and firmly mount the engine at the engine bed. (This becomes the standard for mounting the gears' box.) secure the centering of the gears' box to the mounting position of the engine. The width of M5 nut (the second nut from the inside) which is mounted at the gears' box is the mounting width with the rear side frame. So, it is easy and simple to adjust if the width is fit to the length of the cross member. Next, fix them with M5 nut and φ 5 flat washer firmly.

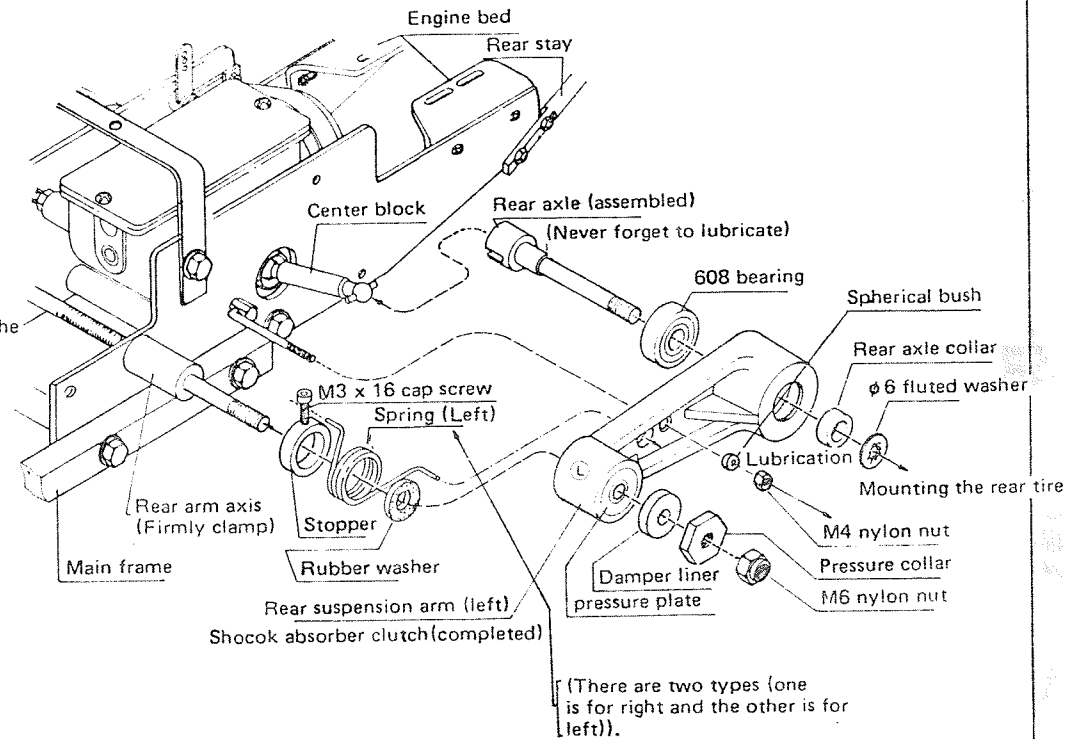


2-C

Assemble the cross member part when the frame is assembled.




2-D



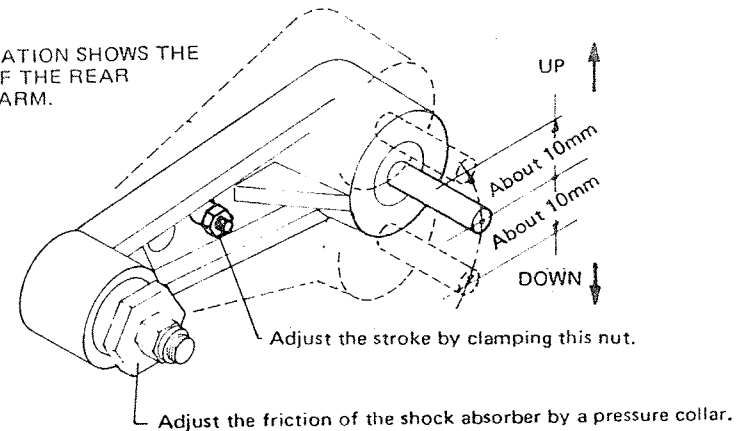
Notes:

- Referring to the illustration 2-F, adjust the friction condition so that no friction is applied UPWARDS and it may be applied DOWNWARDS with the spring not actuated. At this time, use the pressure collar for this adjustment.
- Adjust the stroke of rear axle by clamping the M3 nylon nut of the tension rod. At this time, check that the rear axle lightly turn when it goes upwards and downwards.
- Clamp the spring after the friction is well adjusted. However, it is recommended that the spring is clamped after it is mounted at the frame.

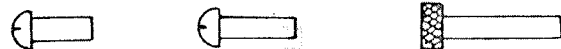
 This model kit is provided with a shock absorber clutch of a new mechanism as a standard accessory in order to ensure easy setting of the suspensions to the conditions of racings. So, enjoy the performance of the clutch. (Utility model pending).
The clutch for the front is separately sold.

2-F

THE ILLUSTRATION SHOWS THE LEFT PART OF THE REAR SUSPENSION ARM.



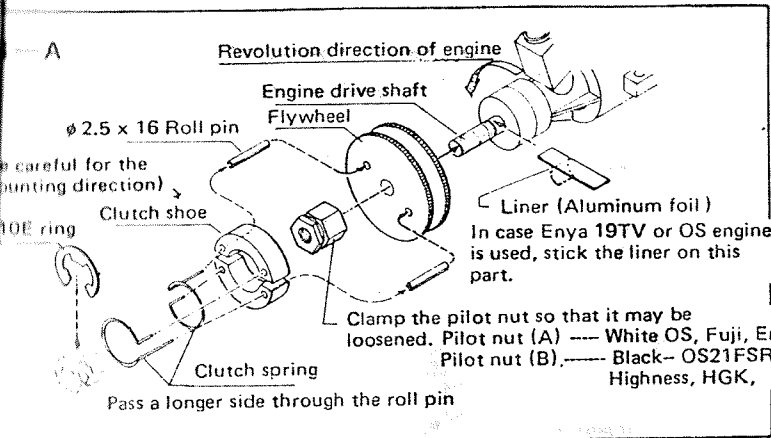
VIEWS OF PRACTICAL SIZES



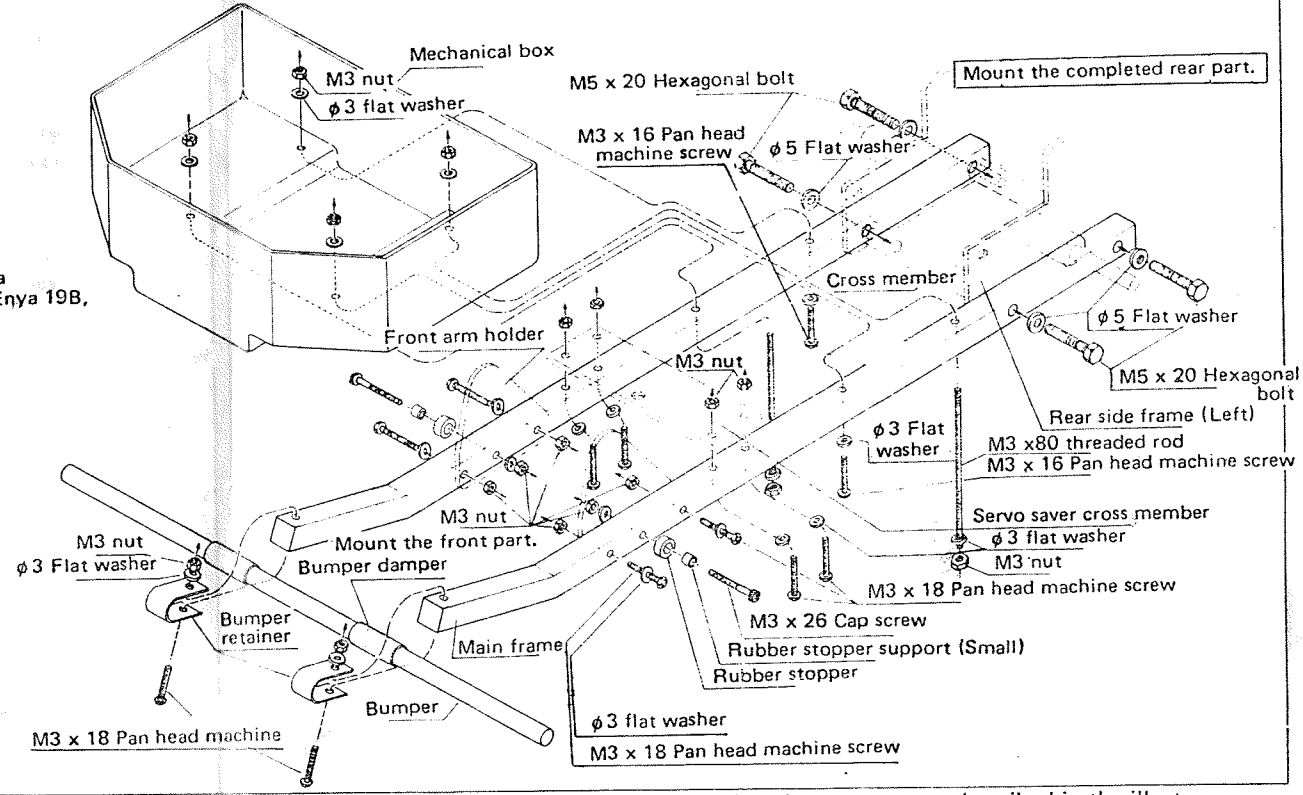
M3 x 8 Pan head machine screw M3 x 10 Pan head machine M3 x 16 Cap screw

ASSEMBLING THE ENGINE PART

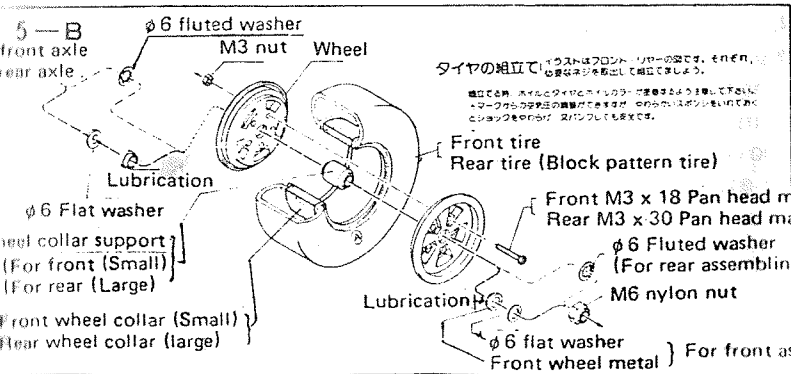
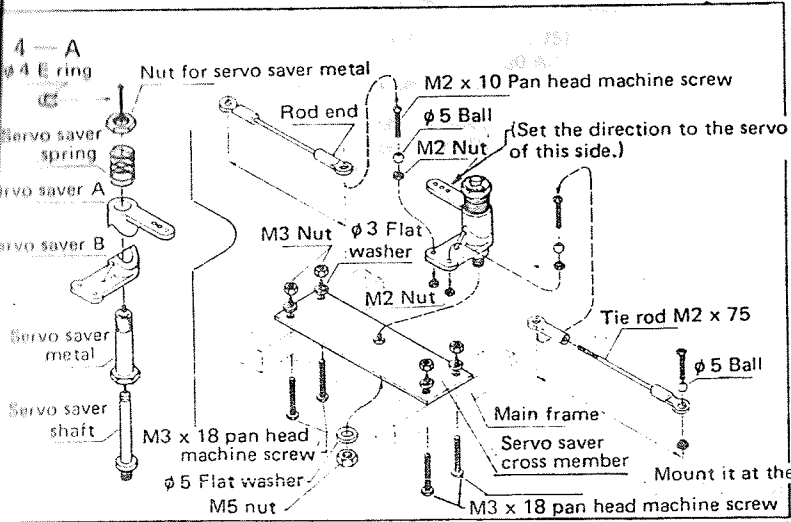
5. ASSEMBLING THE FRAME & THE TIRE



5-A



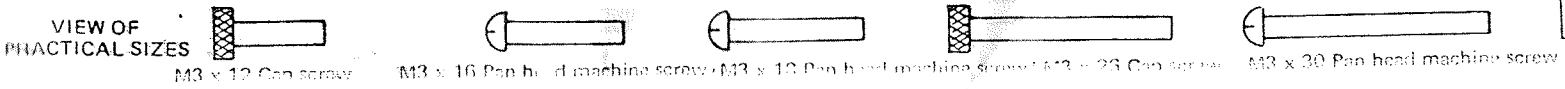
ASSEMBLING THE SERVO SAVER



- Mount the engine at the rear end part after the components described in the illustration 3-A are assembled. At this time, clamp the engine by M3 x 12 cap screw and M3 U nut with placing φ 3 x φ 9 x 1 flat washer between them after it is checked that the clutch bell can be lightly turned. If the clutch bell is not smoothly turned, adjust it after the mounting screws of the gears' box is loosened. (After the adjustment is over, clamp the mounting screws firmly so that they may not be loosened.)
- True up the length of both tie rods and mount them at the servo saver by M2 x 10 pan head machines. (See the illustration 4-A).
- Mount the front and rear part, servo saver part, mechanism box and bumper parts, which are all pre-assembled, as shown in the illustrations. Clamp each part after it is checked that they can lightly move. (See the illustration 5-A).

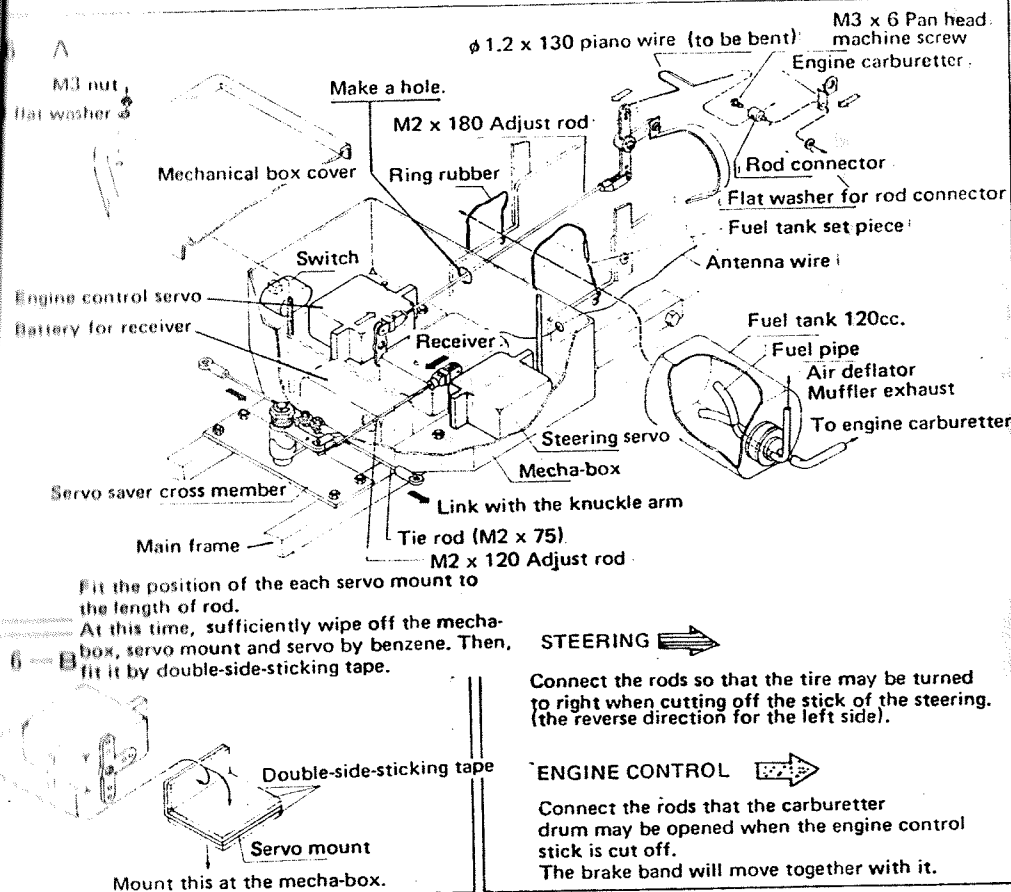
MOUNTING THE TIRES (See the illustration 5-B)

For the front tire, firstly clamp the M6 nylon nut extremely and set it by loosening the nut by 1/4 turn. It is recommended that it may smoothly turn without any unsmoothness. And give hobby oil to the bearing part. For the rear tire, set the φ 6 fluted washer so that it may not be loosened during running. And clamp the M6 nylon nut by a wrench or so.



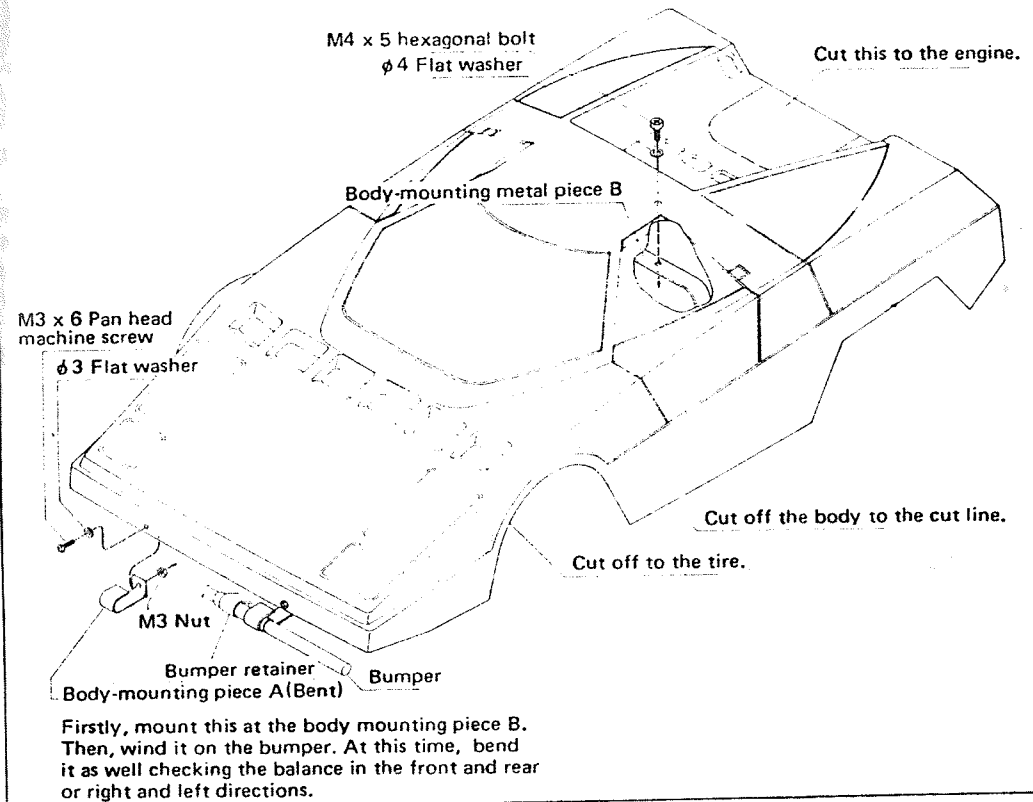
Pass it through the front axle. Then, begin centering. after that, adhere it to the wheel.

SETTING THE MECHANISMS



7. MOUNTING AND PAINTING THE BODY

7-A



MOUNTING THE MECHANISMS & OPERATION

In case of 2ch prop, it has two sticks in almost all the cases. And the left side stick is for engine control and the right side is for steering. Therefore, the servo which is actuated by the left side stick should be used for engine control and that actuated by the right side stick should be used for steering purpose. Besides, there is another small lever, so-called "trim lever" at the side of the sticks. This trim lever is used for fine adjustment of the movements of the servo. So, you can correct the servo movements by this trim lever. Namely, there is no need to adjust the adjustment rods.

SETTING THE BRAKE & THE ENGINE CONTROL

First of all, set the brake. set it so that it may actuate with the trim of the transmitter set to **NEUTRAL** (e.i. when the engine control stick is positioned at the slowest point. The braking force can be adjusted or regulated by a brake band or at the mounting part of the rear side frame. Secondly, set the throttle lever. Mount the rod connector so that the drum of a carburettor may open by about 1mm with the stick set to the same position. And check that the drum of the carburettor may open fully when the engine control stick is set to **HIGH**. If the stroke is short, adjust it by changing the rod-mounting position of the servo horn. Bend the piano wire of $\emptyset 1.2$ for engine control to secure a spring effect.

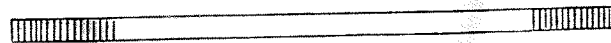
PAINTING THE BODY

Wash the body before painting. And cut off the unnecessary parts and drill the necessary parts before painting. Acrylate color spray is used for painting. And use the masking tapes to make stripes to your favorite design. Please refer to the color package.

VIEWS OF PRACTICAL SIZES



M3 x 6 Pan head machine screw



M3 x 80 Threaded rod

ADJUSTMENT FOR RUNNING

1. Start the engine by a rope or an electric starter.
2. Before running, please never fail to check that the hobby oil 50 is filled up in the gears' box. And don't forget to supply lubrication oil to every rotary parts.
3. Never fail to provide the engine with an air cleaner and a heat sink.
4. Check that no loosened parts are caused and that all the mechanisms can correctly operate. After that, start the engine.
5. Run the car at or under the medium speed until one or two tanks of fuel is consumed. Because warming up operation is required for the gears' box , gears and each bearing.
6. Set the suspensions to the same degree at four wheels. And again check that the screws , bolts and nuts are well clamped. If necessary, use a screw lock to prevent them from being loosened.
7. After you enjoyed running the car, wipe off dust and foreign matters from the car to maintain the machine at its best conditions for subsequent runnings.

The specifications described in this instruction manual shall be subject to change without prior notice.

Thank you very much for your purchase of Hirobo's Racing Buggy DOME-Zero. Though the quality and quantity of the model kits have been severely checked before shipment, please re-check the quantity of the components and parts contained in each small sack in order to make doubly sure. If you should find anything wrong, please be free to contact the shop where you have purchased or directly Hirobo Industrial Co., Ltd.

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