

RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY

4WD OFF-ROAD RACER

SALUTE

- FOUR-WHEEL DRIVE VIA HARDENED STEEL CHAIN.
- FOUR-WHEEL INDEPENDENT SUSPENSION WITH EXTRA-LONG WISHBONES FOR MINIMUM BUMP STEERING, MAXIMUM DIRECTIONAL STABILITY ON ALL SURFACES.
- EXTRA-STRENGTH PARTS FOR 8.4V POWER.
- 16 BALL BEARINGS INCLUDED IN KIT.
- OVERSIZE OIL-FILLED SHOCK ABSORBERS.
- ANTI-ROLL BARS FRONT AND REAR.
- SUPER-STRONG ALUMINUM LADDER FRAME.
- SHIELDED CHAIN FOR LONG LIFE.
- TWIN DIFFERENTIALS.

1/10スケール 電動ラジオコントロール レーシング バギー

4WD

オフロードレーサー

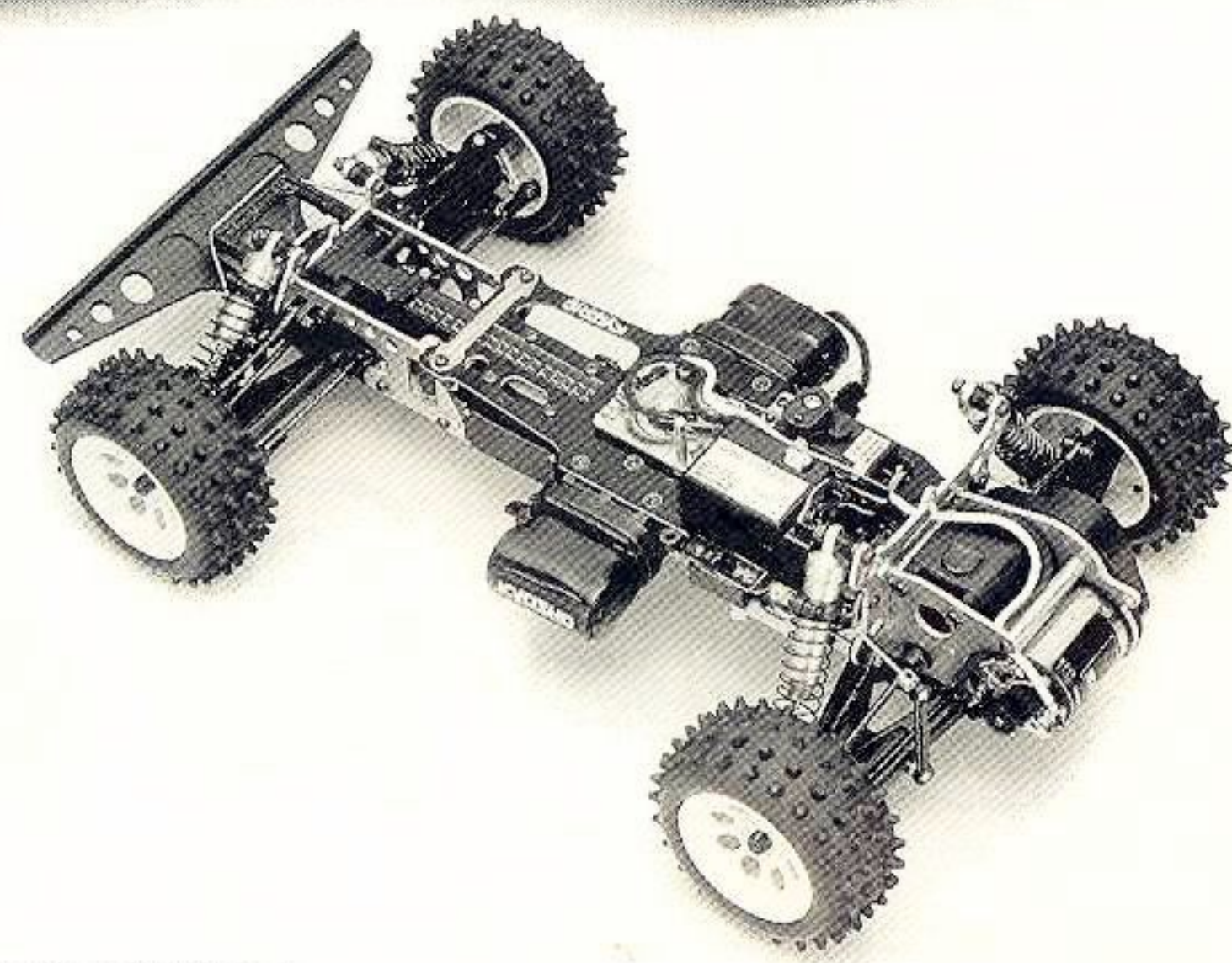
サリュート

1:10 SCALE

BATTERY: 8.4V - 1200mAh

RADIO: 2ch.

MOTOR: 540/550TYPE
[NOT INCLUDED]



組立て説明書

KYOSHO
THE FINEST RADIO CONTROL MODELS

KIT No.3034

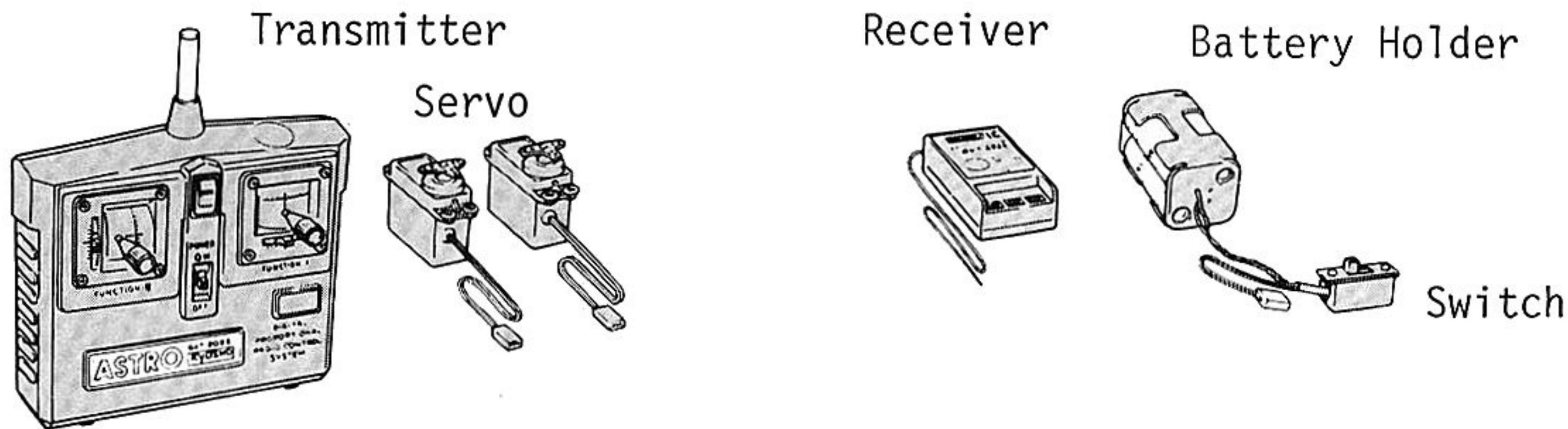
- チェーン方式四輪駆動システム
- ボールベアリング16個標準装備
- プレッシャーダンパー4基装備
- モーター/ル・マンシリーズ(別売)

製品改良の為、予告なく仕様を変更する場合があります。

●BECプロポ対応

4WD OFF-ROAD RACER SALUTE

2 CHANNEL RADIO SYSTEM

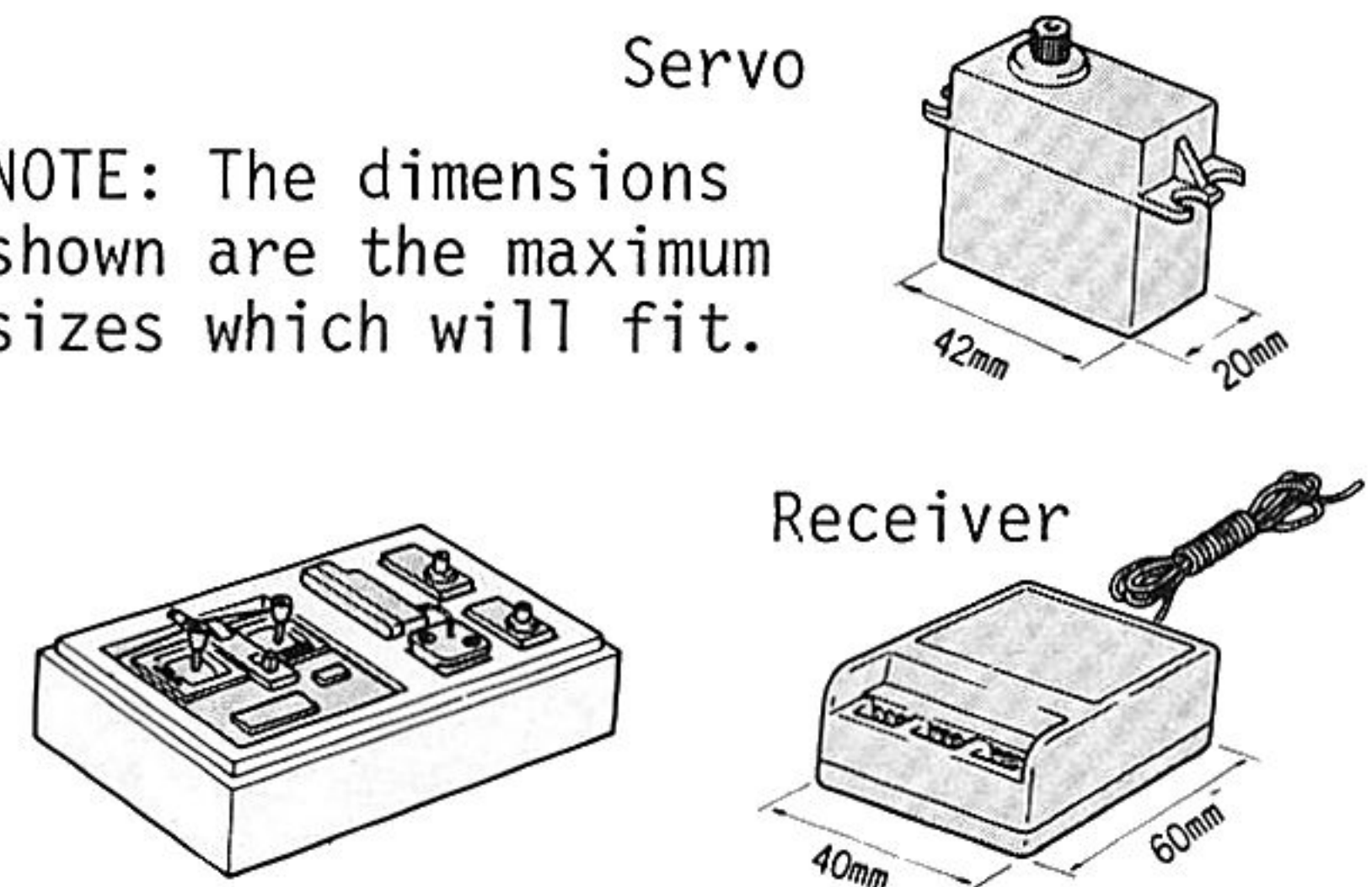


THINGS NEEDED BESIDES THE KIT

[2 Channel Radio System]

Two types of radio control sets are on the market, the stick type and the steering wheel type. Choose which ever you like.

*NOTE: The dimensions shown are the maximum sizes which will fit.



BATTERY PACK

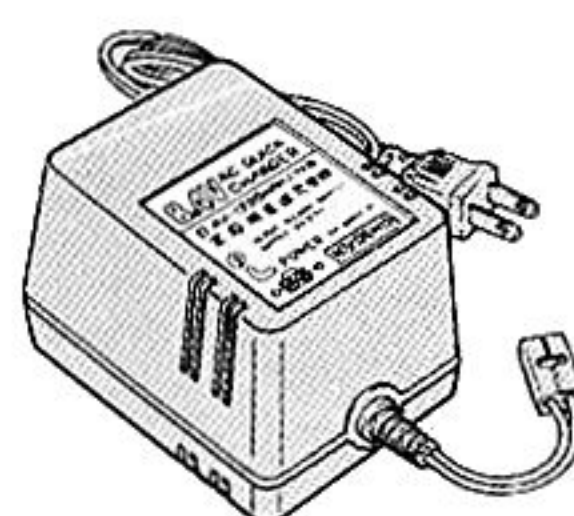
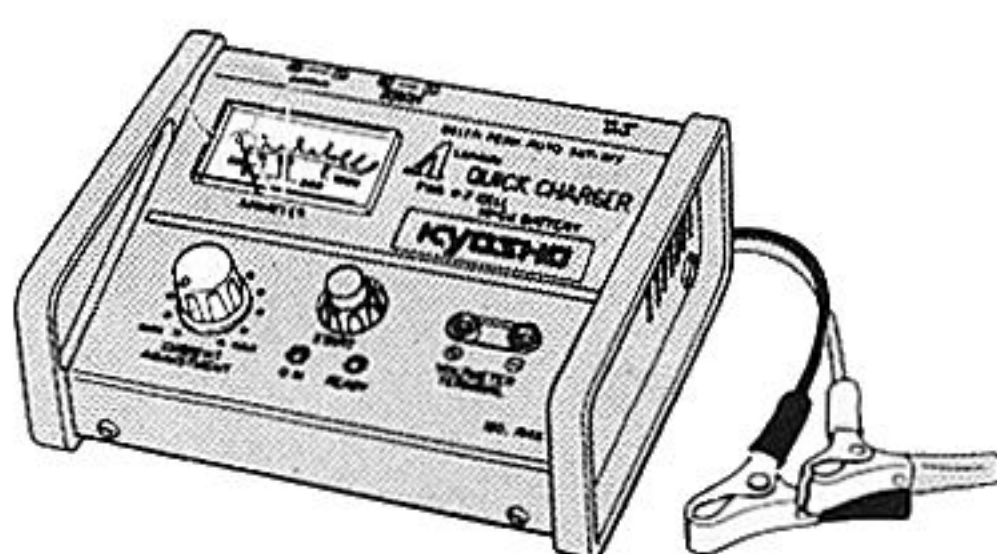
A 8.4 V-1200 Battery in similar shape to the one shown here is required. The Kyosho #1973 is a good choice.



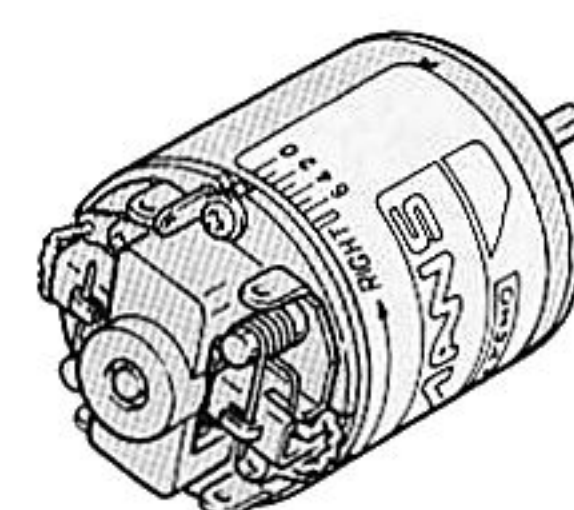
CHARGER

You'll need a charger to charge your battery, Kyosho offers three types:

Model	Name	Time	Features
No.1846	Multi Charger (DC 12V)	25 Min.	Full charge, wide range of batteries.
No.1845	Lambda Quick Charger (DC 12V)	20 Min.	The best fully automatic operation. Easy to use, suitable for competition.
No.1931	Super Ni-Cad AC Quick Charger	50 Min.	AC Charger from household outlet. Electronic time built-in.



[Motor]



REQUIRED TOOLS

These are included with the "Turbo Optima"

1.5mm Allen Wrench

2mm Allen Wrench

2.5mm Allen Wrench

Silicon Grease

Screw locking compound

These are not included with the "Turbo Optima"

Phillips Screwdriver

5.5mm & 7mm Box Driver

Scissors

Needle Nose Pliers

Wire Cutters

Awl

Sharp Hobby Knife

Rubber Cement



Polyca Paint



Micron Line Tape

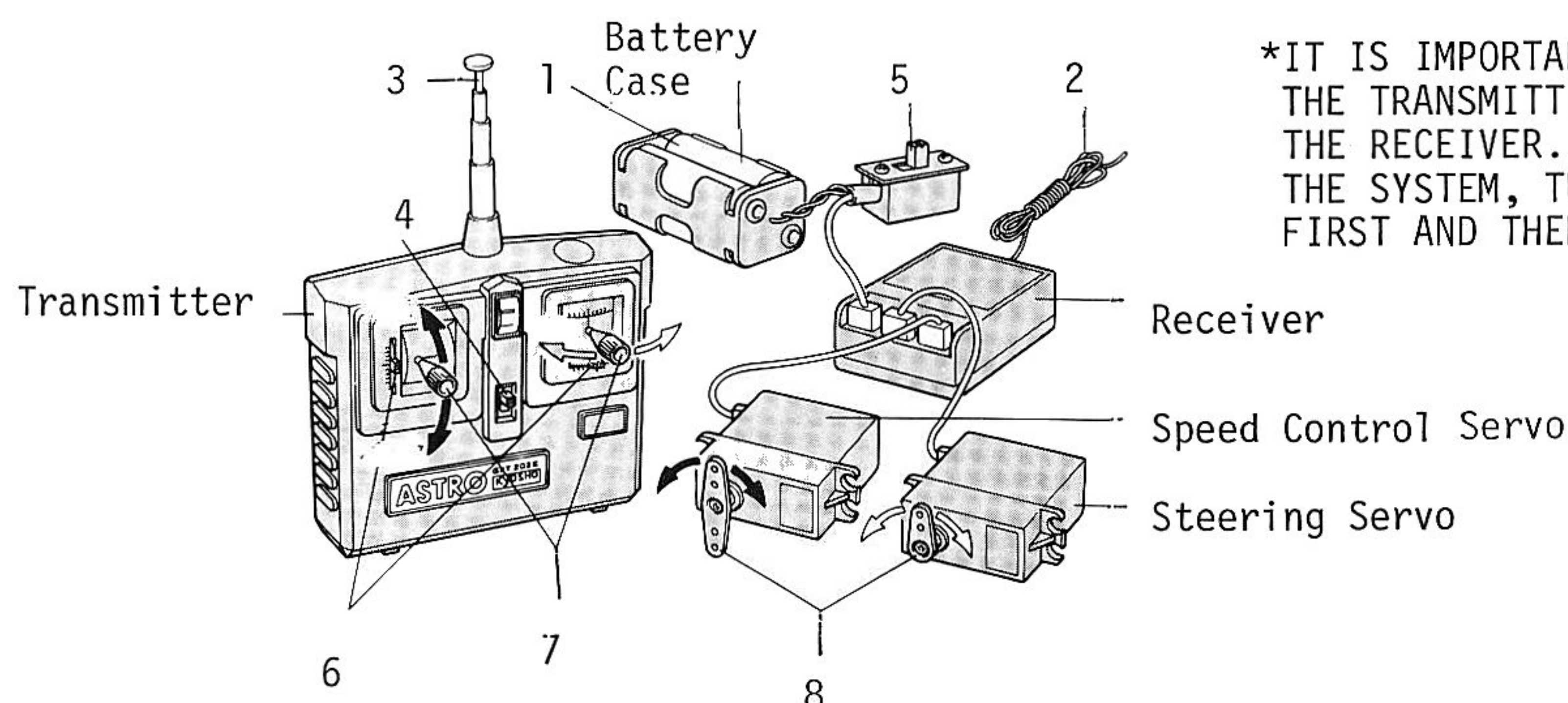


Brush

HOW TO CHECK YOUR RADIO SYSTEM

Follow steps 1-8.

1. Install the batteries into both the transmitter and receiver. If your radio is a rechargeable system, charge it as outlined in the manual that came with your set.
2. Unravel the receiver antenna and plug the servo and battery connectors into the receiver.
3. Extend the transmitter antenna.
4. Turn On the power switch of the transmitter.
5. Turn On the power switch of the receiver.
6. Set the small trim levers to the center position and make sure that both main control sticks are also centered.
7. Move both main control sticks slowly through their full travel. The servo horns should move in proportion to the movement of your sticks.
8. When trim levers and sticks are at their neutral positions, the servo horns should be centered. You may now turn off the transmitter, then the receiver and unplug the servos and battery from the receiver.



*IT IS IMPORTANT TO ALWAYS SWITCH THE TRANSMITTER ON FIRST... THEN THE RECEIVER. WHEN TURNING OFF THE SYSTEM, TURN OFF THE RECEIVER FIRST AND THEN THE TRANSMITTER.

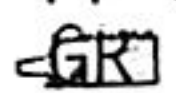

A 2-channel radio control system is composed of a transmitter, receiver, two servos, and a battery holder (for the receiver).

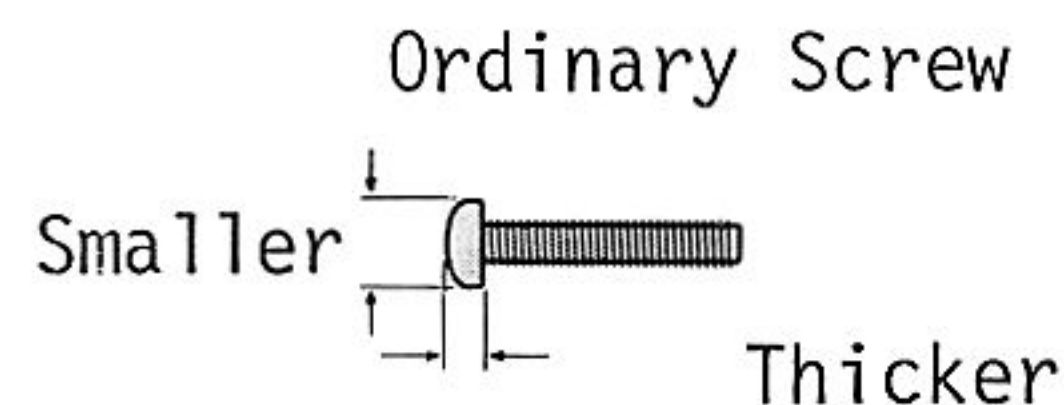
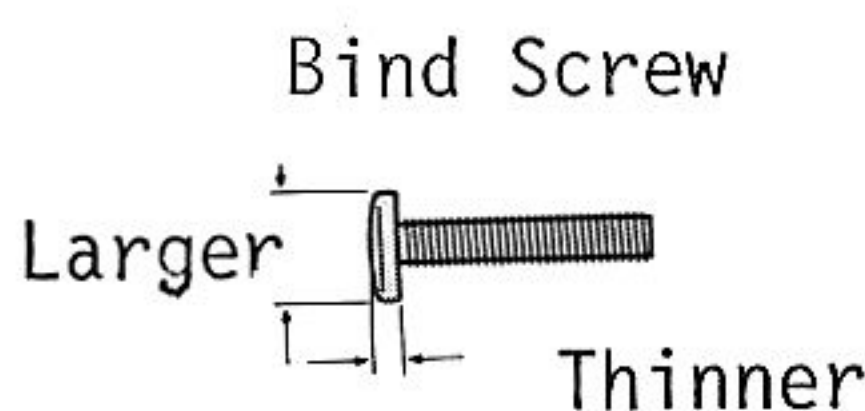
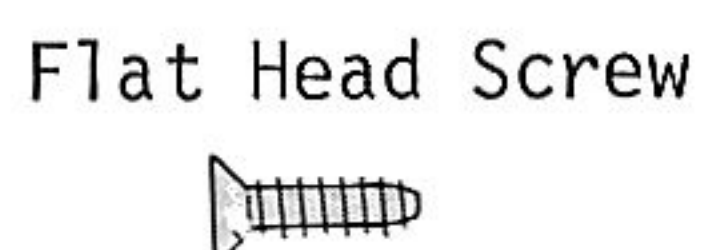
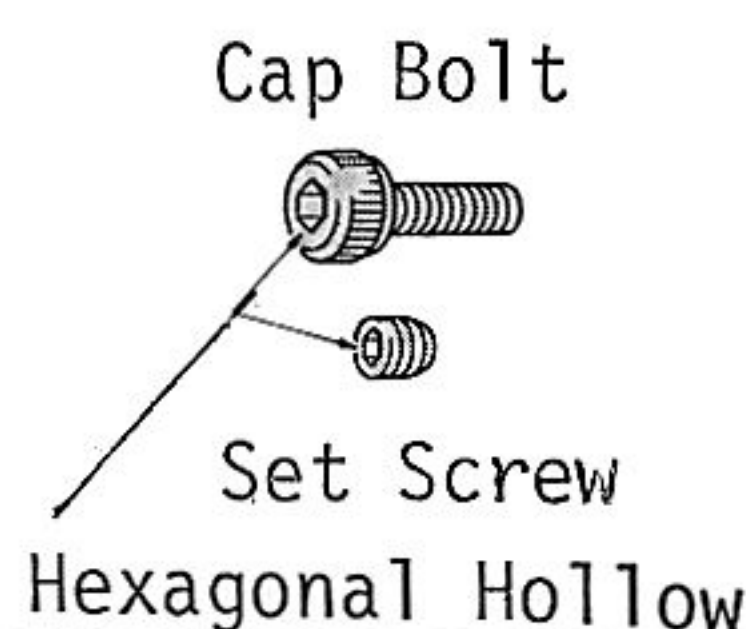
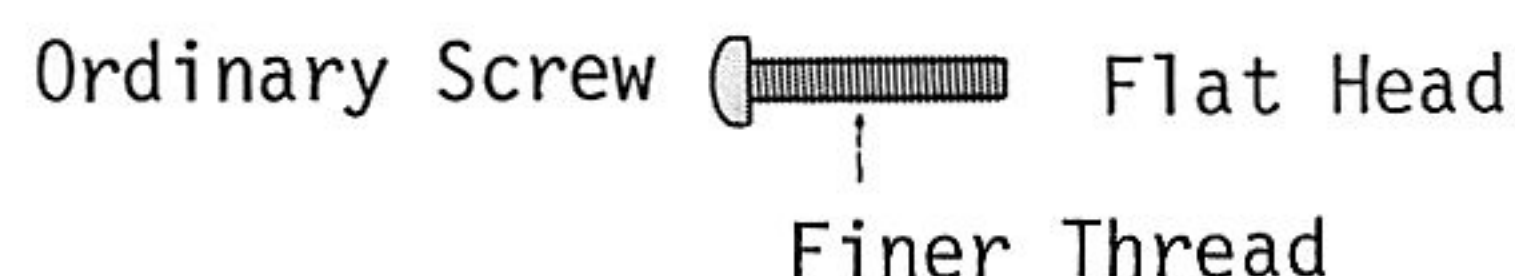
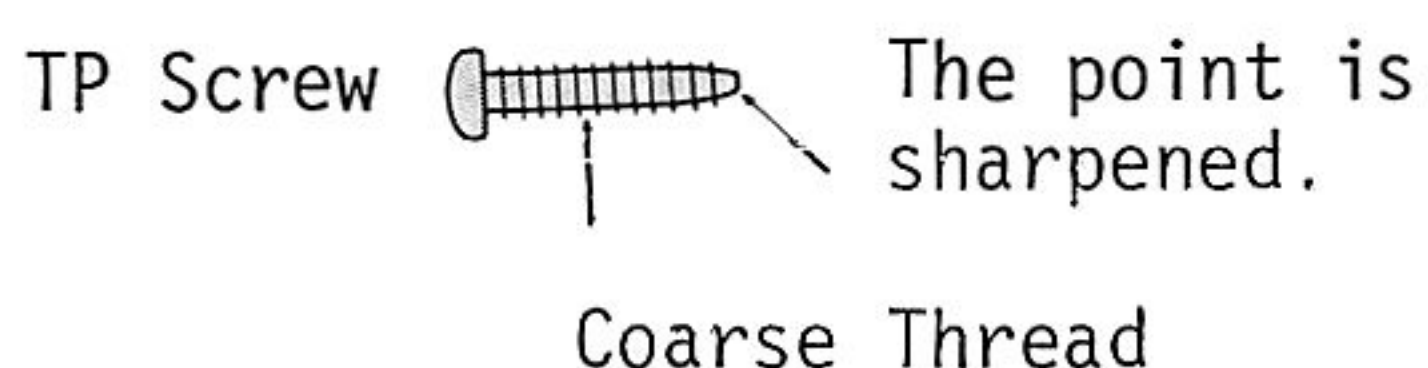
- *Transmitter This is the part of the system that you hold in your hands to control the model. Information is sent to the receiver and servos via radio waves.
- *Receiver Receives the radio signals from the transmitter and sends them to the appropriate servo.
- *Servos It Can be thought of as the "muscle" of the system. They actually **move** the controls of the model. The receiver tells them which direction to move and how much.
- *Antenna The transmitter antenna broadcasts the radio signal. The receiver antenna (which is no more than a small wire tuned to a precise length) picks up the signals so that the receiver can decode them.
- *Trim Levers Adjust the neutral position of the servos from the transmitter. Trim levers provide fine tuning of the steering and speed control.
- *Battery Meter ... Allows you to see the condition of your transmitter batteries.
- *Servo Horn A small arm or wheel on a servo that transfers the movement of the servo.

BEFORE ASSEMBLY

Please read through these instructions before assembly. Your thorough understanding of the assembly will enable you to build the kit without difficulty. Check the components in the kit prior to your starting the assembly. Any claims for replacements or refunds for the model in the process of assembly will not be accepted.

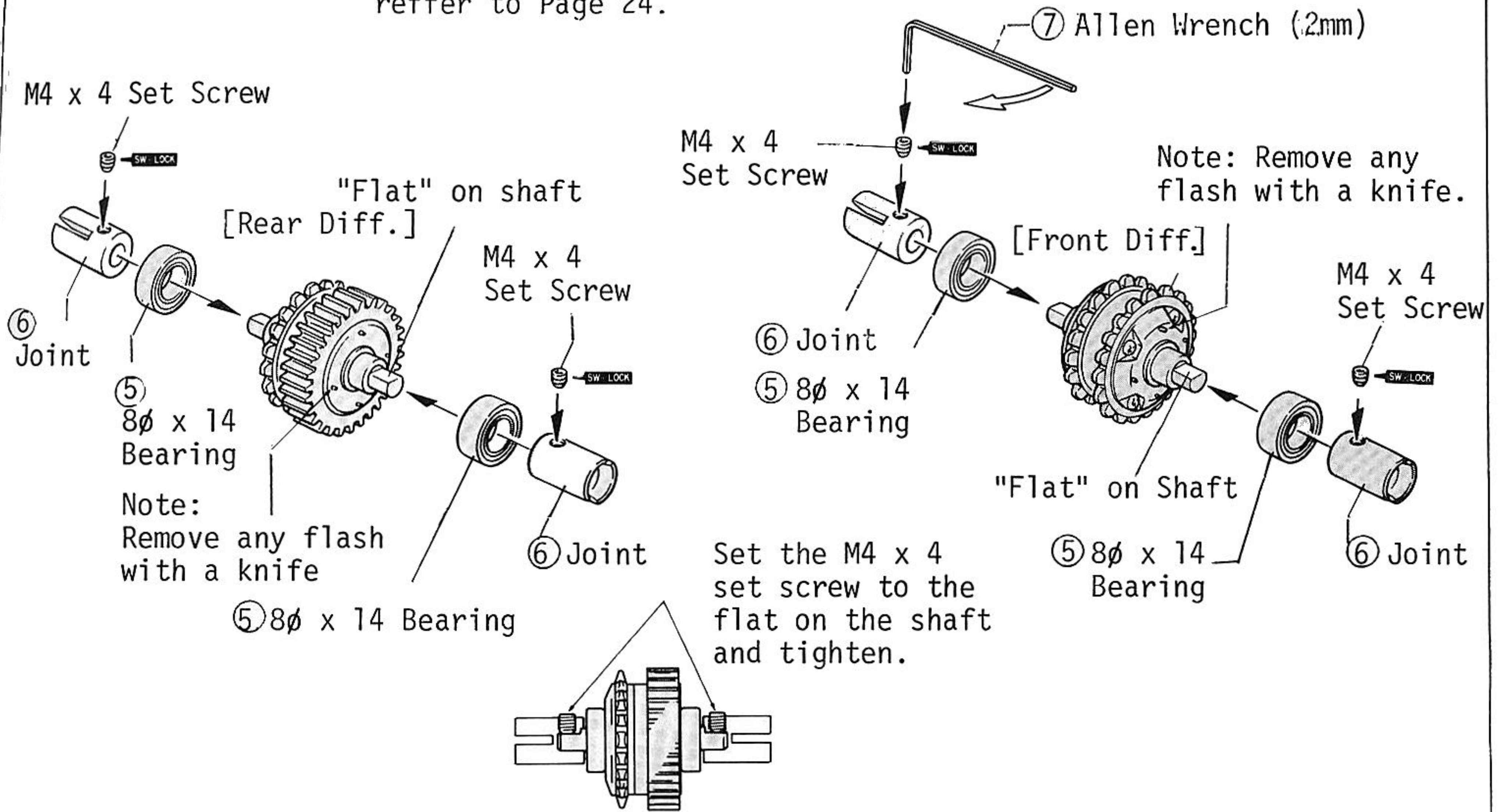
[Please understand the following points before assembly]

1. Places where grease and "locktite" should be applied;
Apply some grease, which is included in the kit, to the spots indicated with mark , and "locktite" with .
2. Small Parts
The small parts to be used such as screws, nuts, washers are illustrated in the actual size on the attached sheet "The List of Small Parts". Pick up the correct ones referring the size, shape, and the assembly number.
3. Some Hints when screwing in a self-tapping-screw, (hereinafter referred to as TP Screw).
*This model uses a lot of plastic parts, and many TP screws will be used for assembling.
*Do not use excessive force when tightening the self-tapping screws, or you may strip the thread in the plastic. It is recommended to stop tightening it when the threaded part on the screw goes into the plastic part and you feel some resistance from the tightening.
4. Shape of Screw
*You can distinguish the ordinary screw from the self-tapping one by the shape of points and thread.

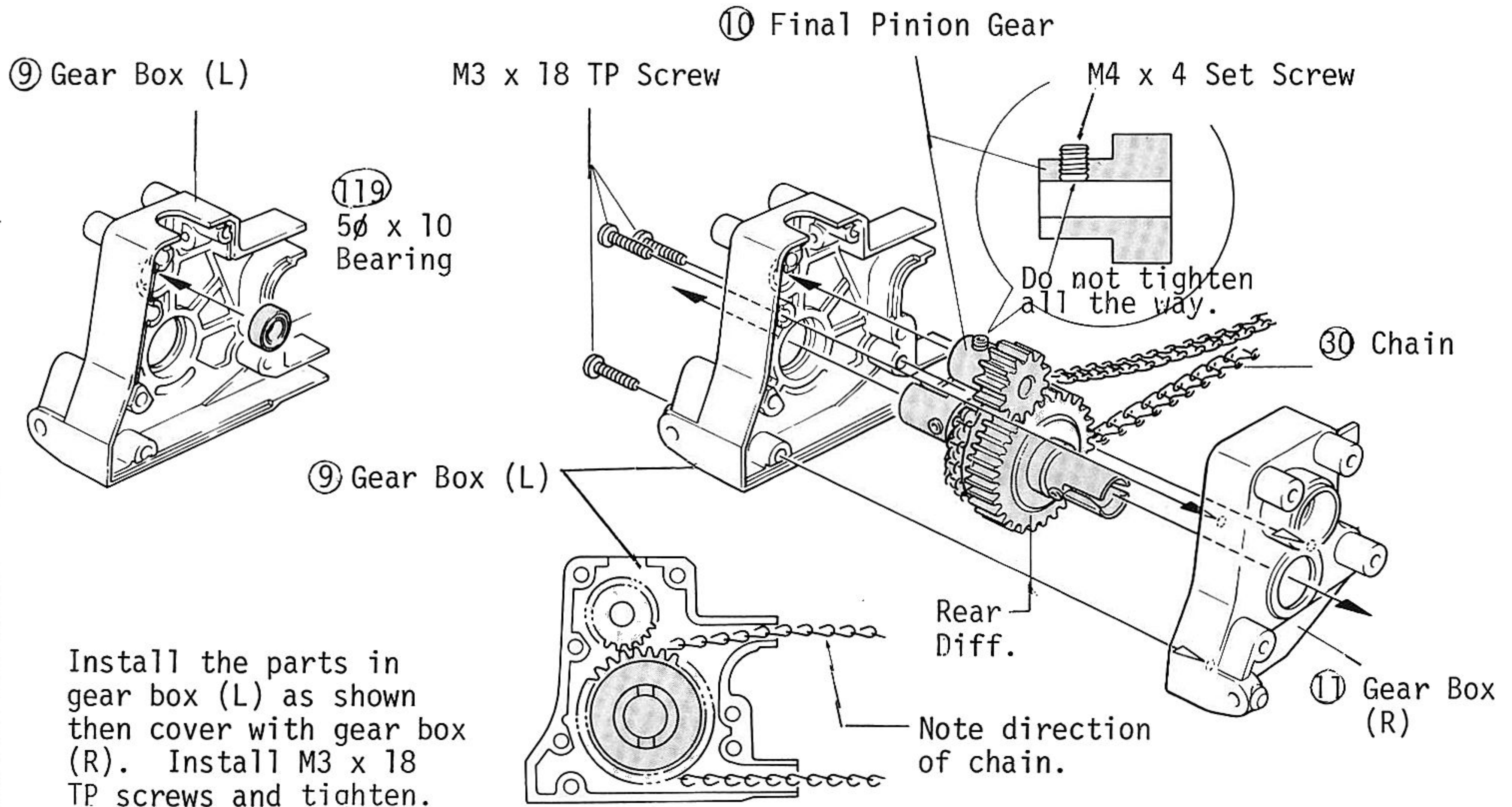


1 INSTALLATION OF JOINT

Assembly drawing of Front and Rear Diff.
refer to Page 24.



2 ASSEMBLY OF REAR GEAR BOX

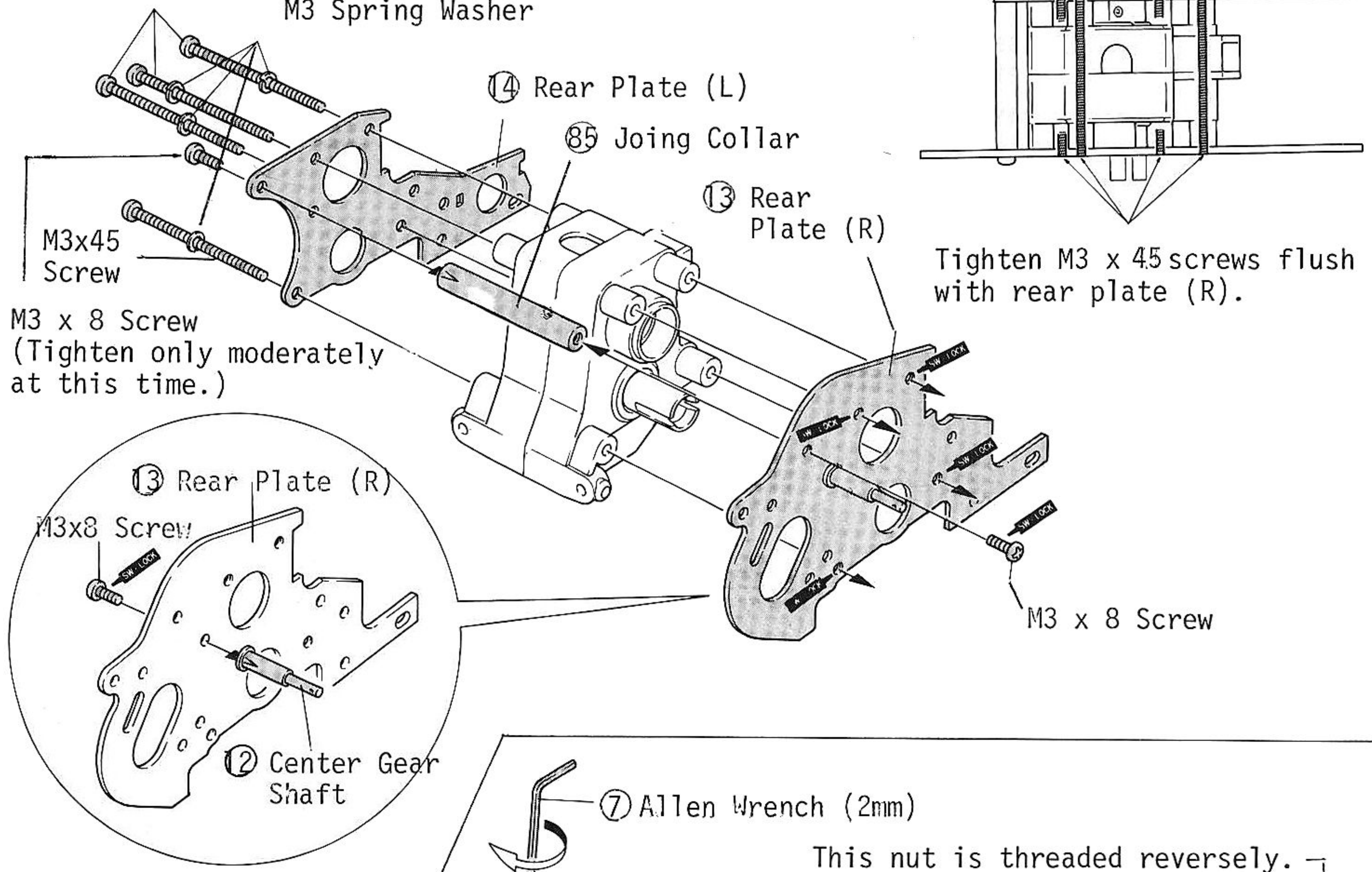


Never apply grease or oil to rear diff. and Final Pinion Gear.

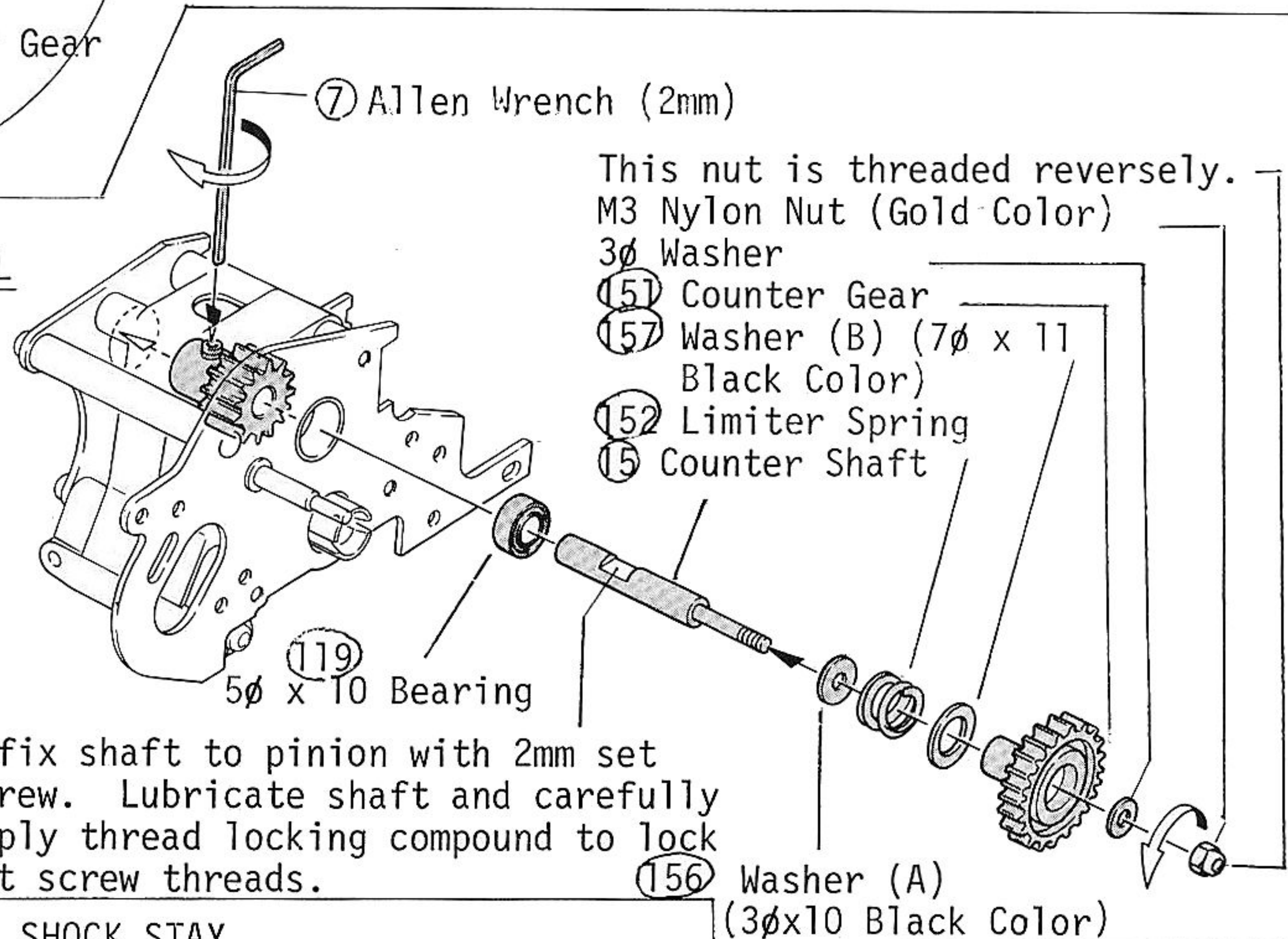
3 INSTALLATION OF GEAR BASE

M3 x 45 Bind Screw

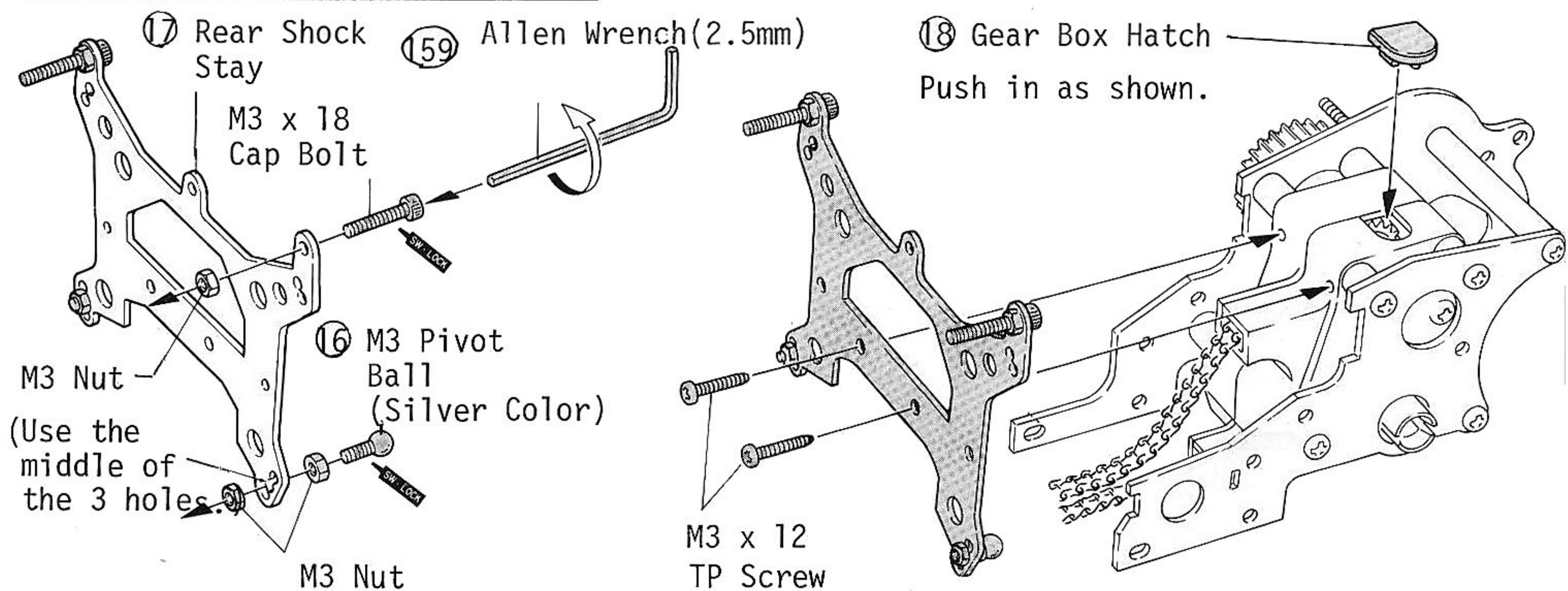
M3 Spring Washer



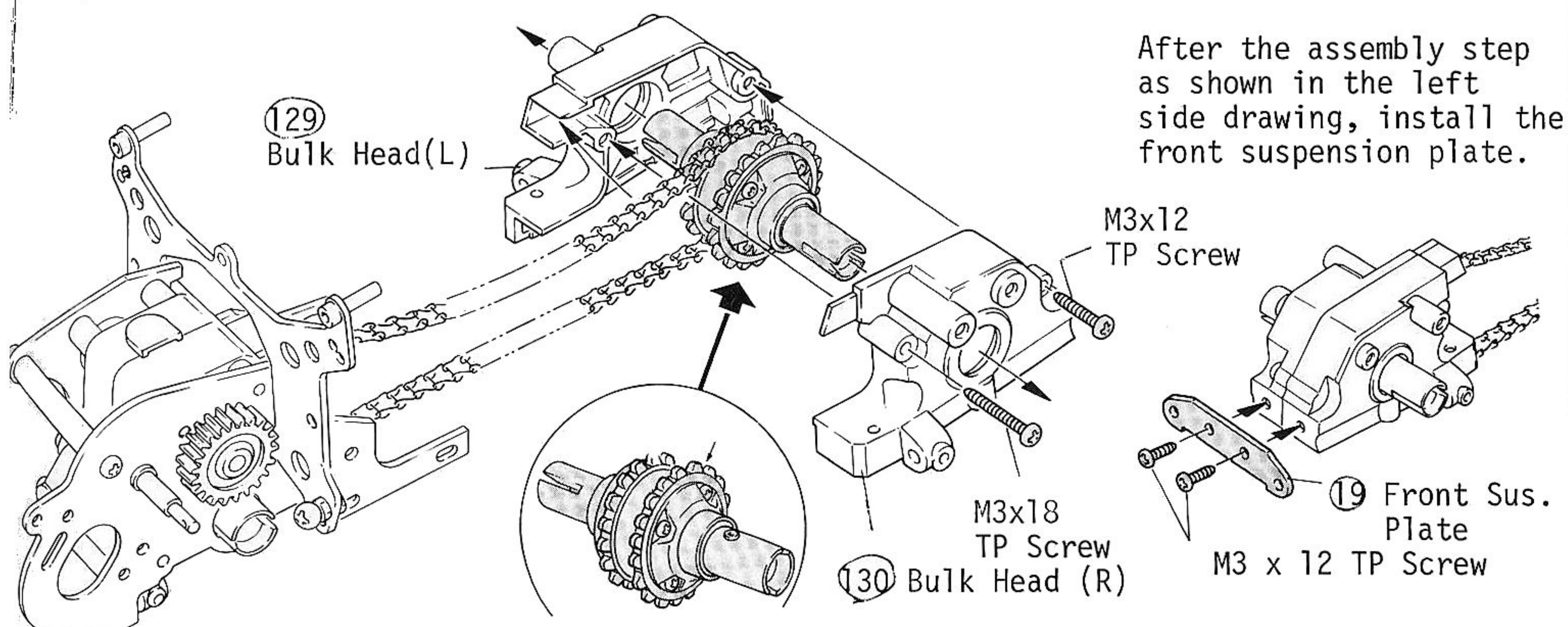
4 INSTALLATION OF FINAL PINION GEAR



5 INSTALLATION OF REAR SHOCK STAY



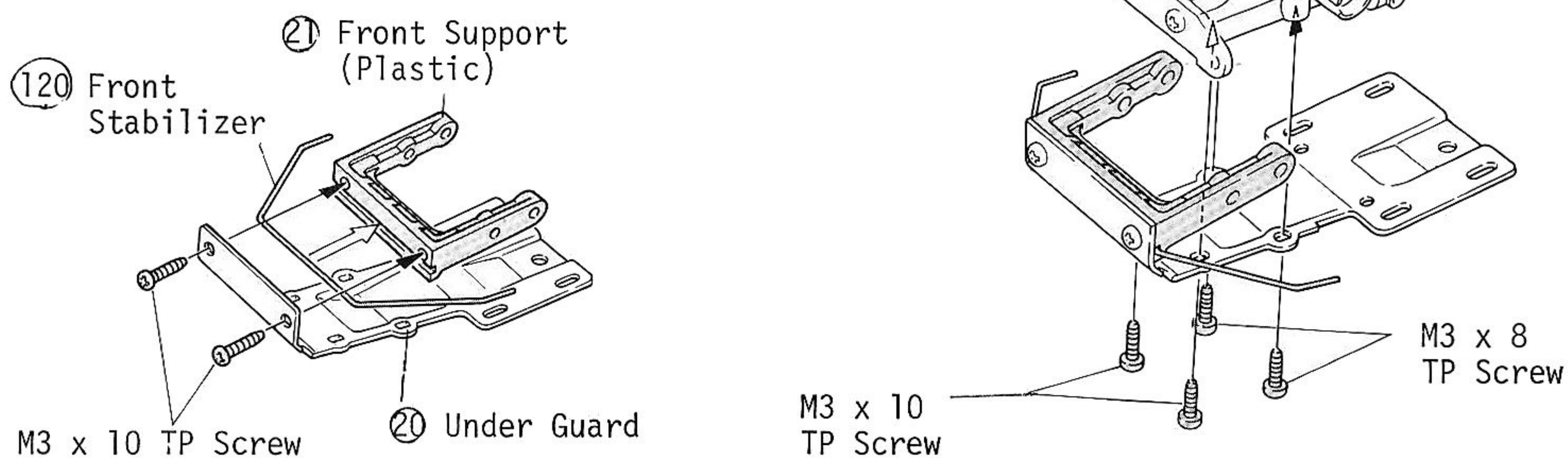
6 INSTALLATION OF FRONT GEAR BOX



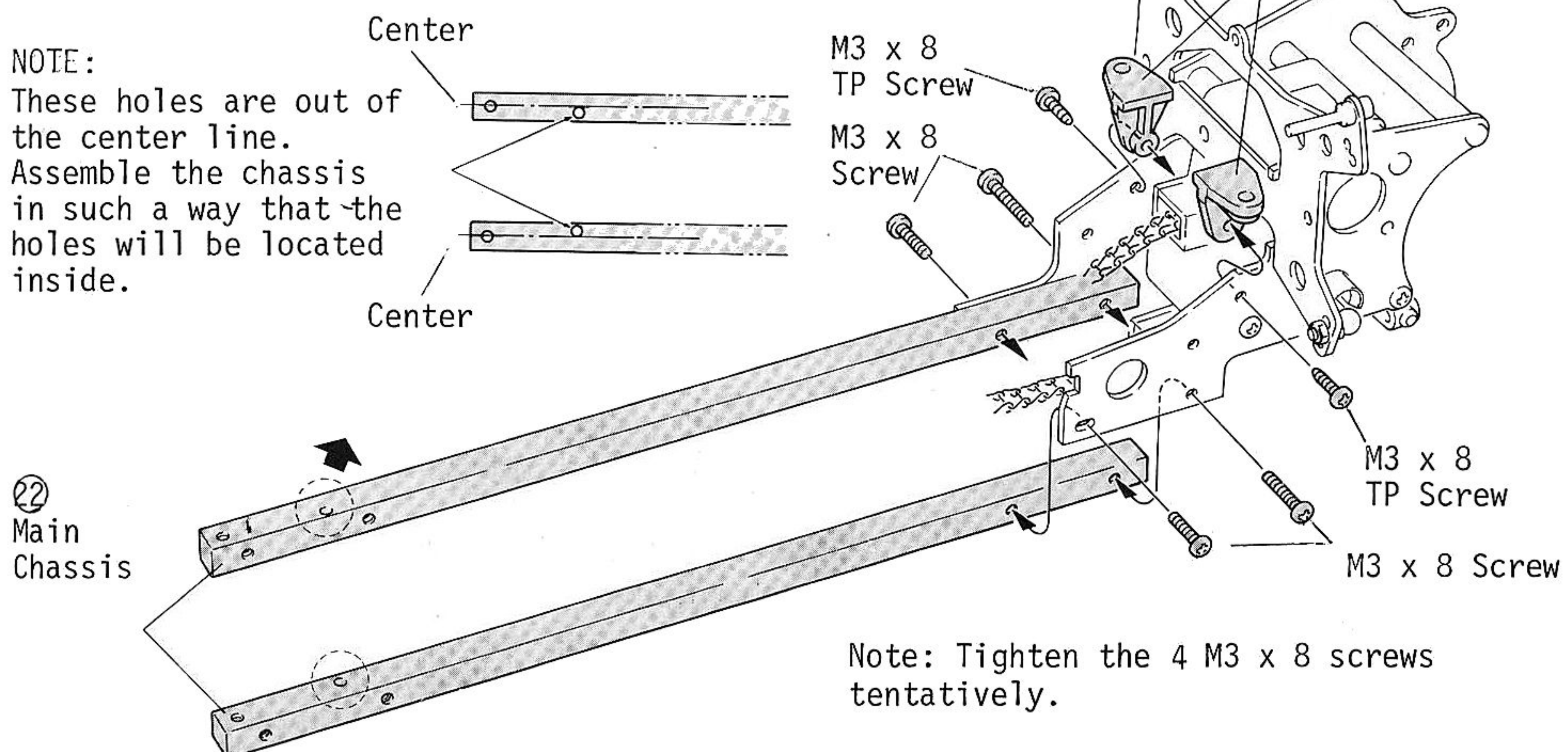
Note: Never apply grease or oil to the sprocket.

*Two types of sprockets are available (18 and 19 teeth). For the standard process, use the 18 teethed one to engage the chain on.

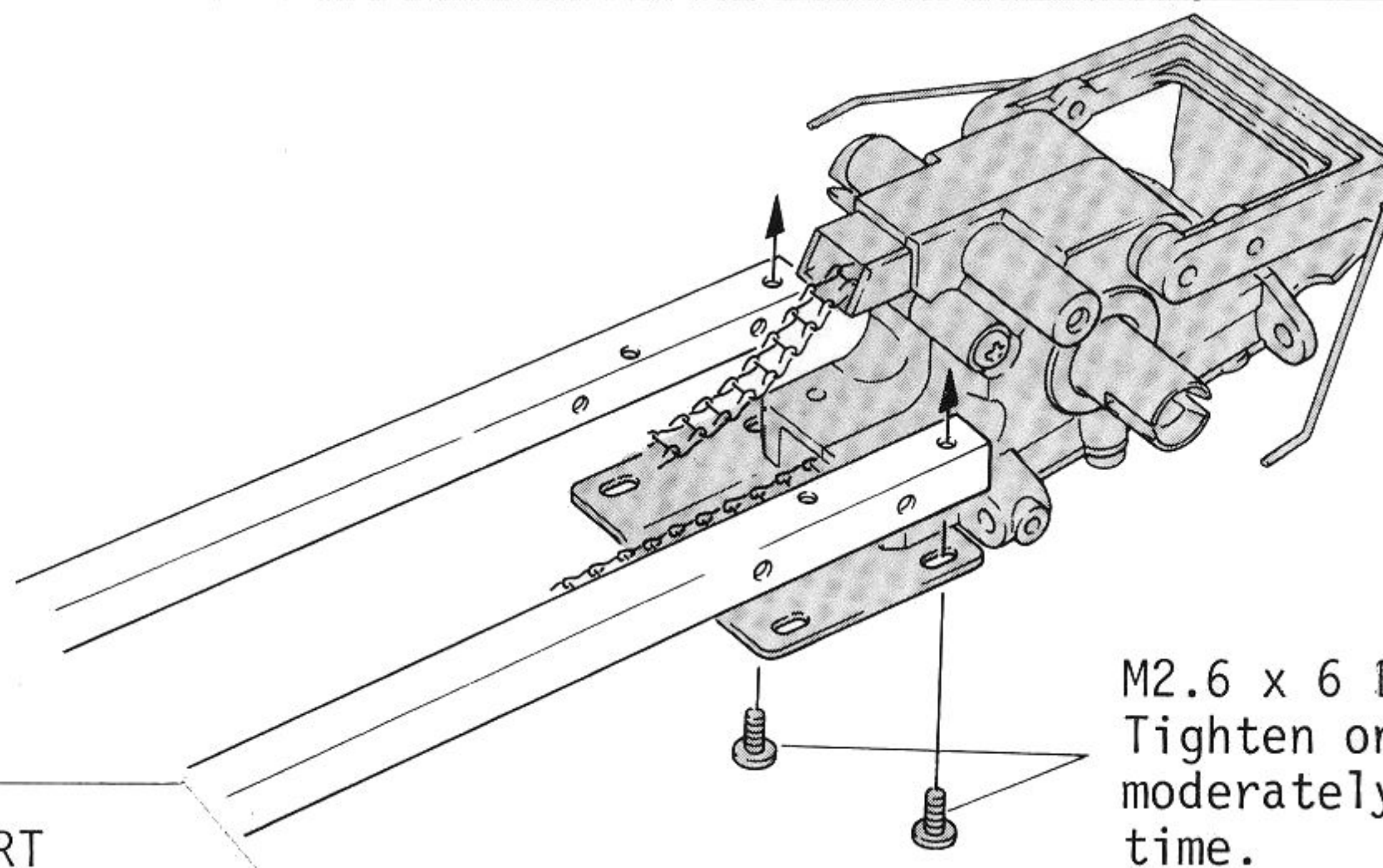
7 INSTALLATION OF LOWER GUARD



8 INSTALLATION OF REAR PLATE

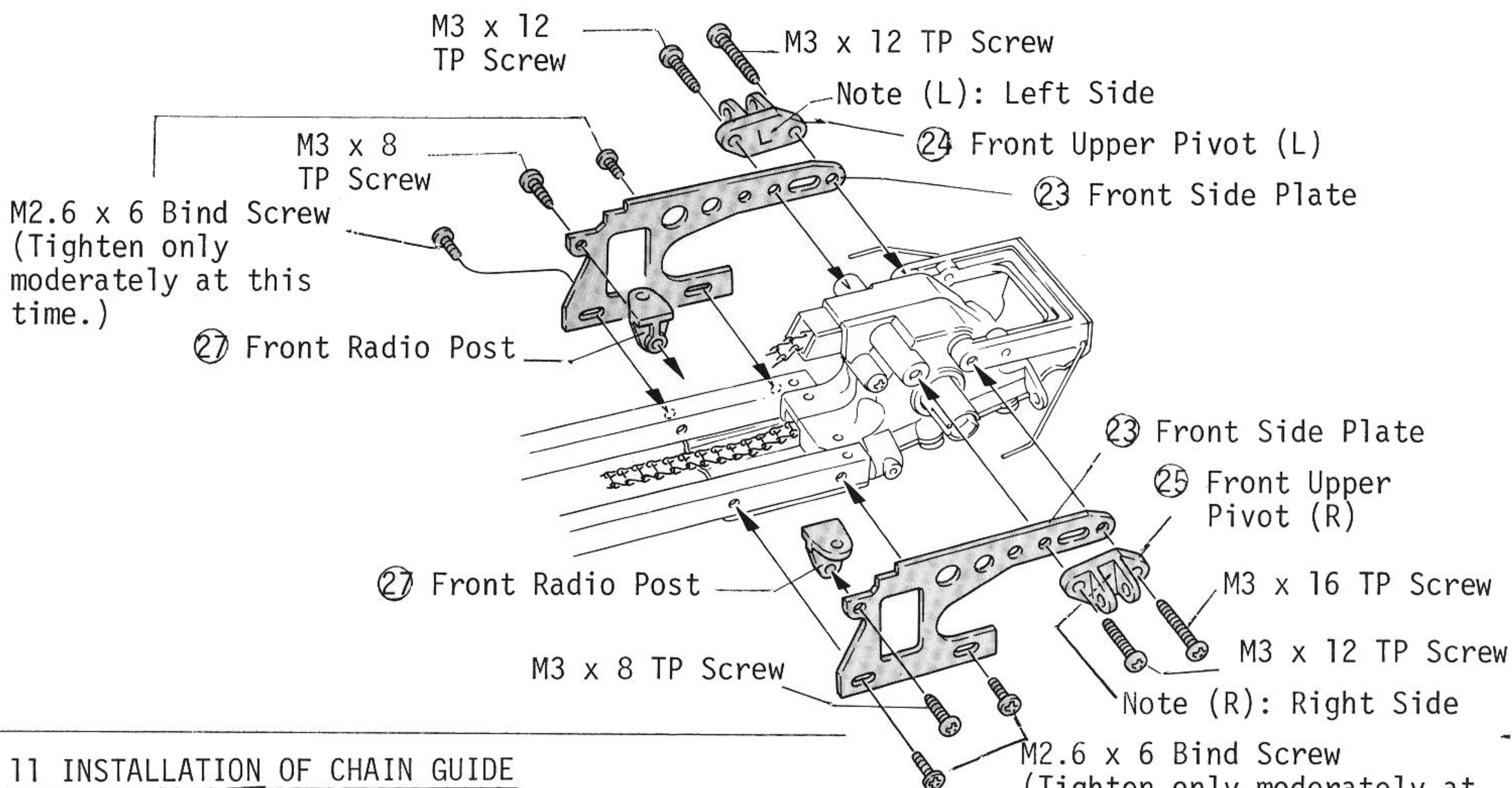


9 INSTALLATION OF BULK HEAD



M2.6 x 6 Bind screw
Tighten only
moderately at this
time.

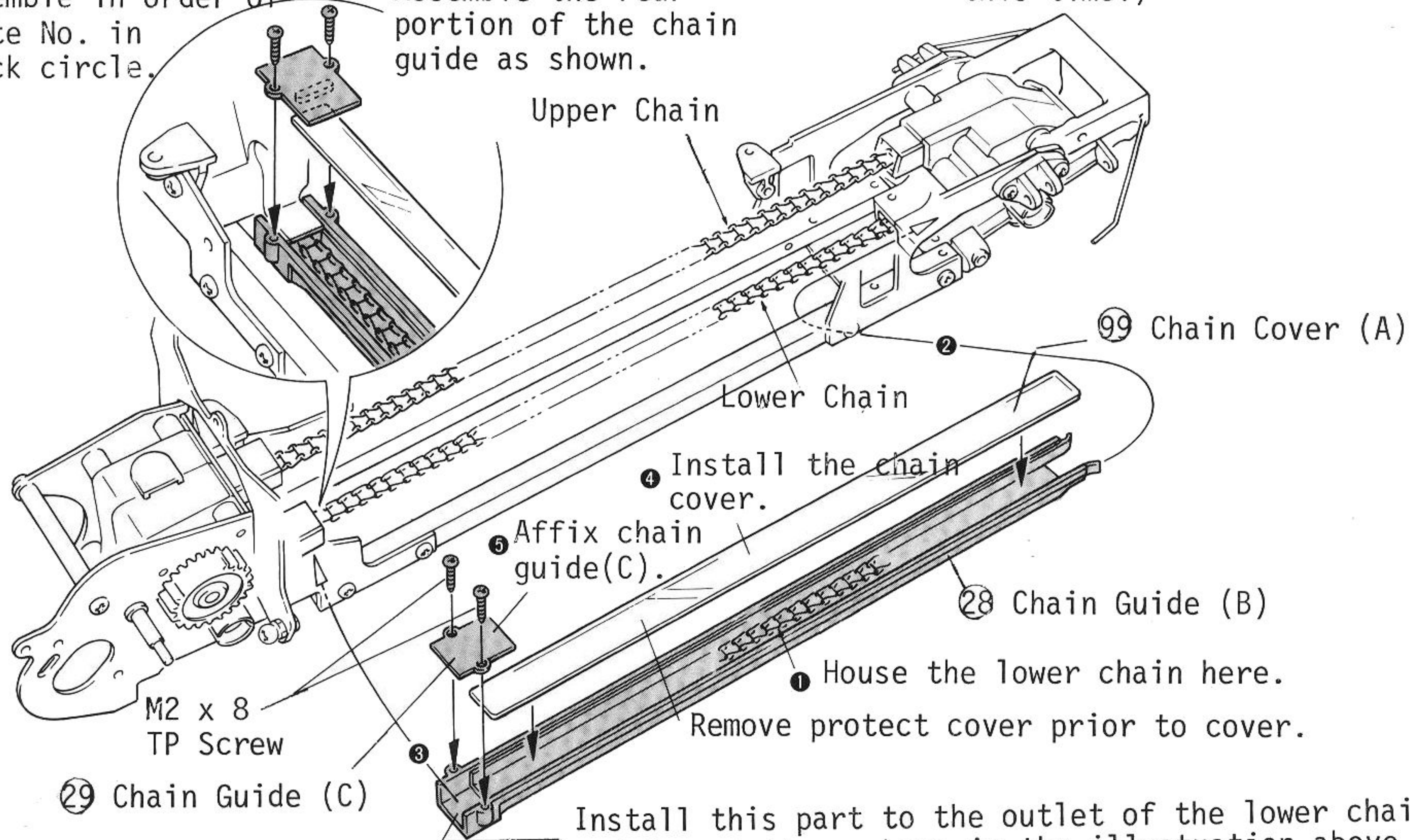
10 INSTALLATION OF FRONT SUPPORT



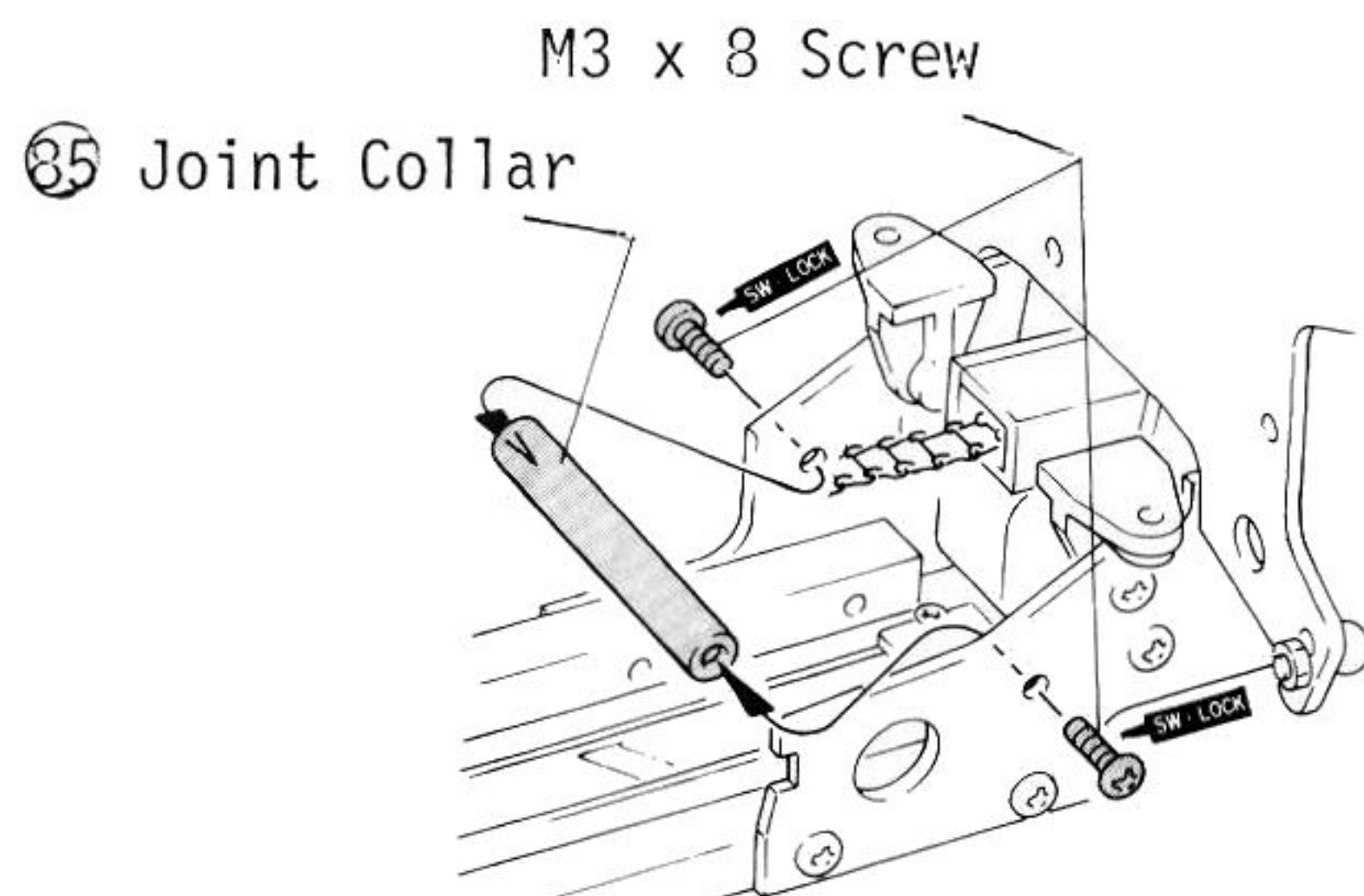
11 INSTALLATION OF CHAIN GUIDE

Assemble in order of
white No. in
black circle.

Assemble the rear
portion of the chain
guide as shown.



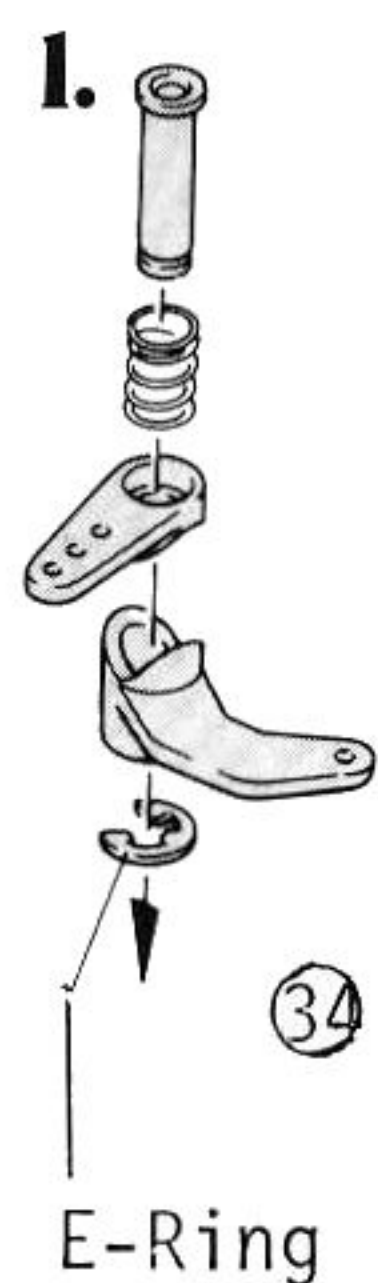
12 INSTALLATION OF JOINT COLLAR



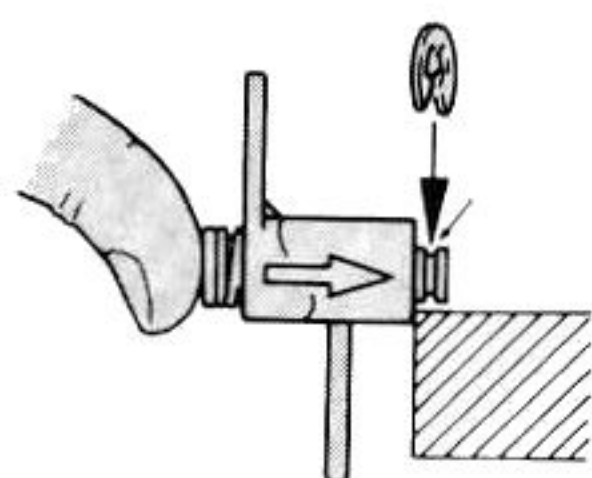
If you have any difficulty to fix the joint collar (85), loosen the four M3 x 45 screws on the gearbox, then you can install it much easier.

13 ASSEMBLY OF SERVO SAVER

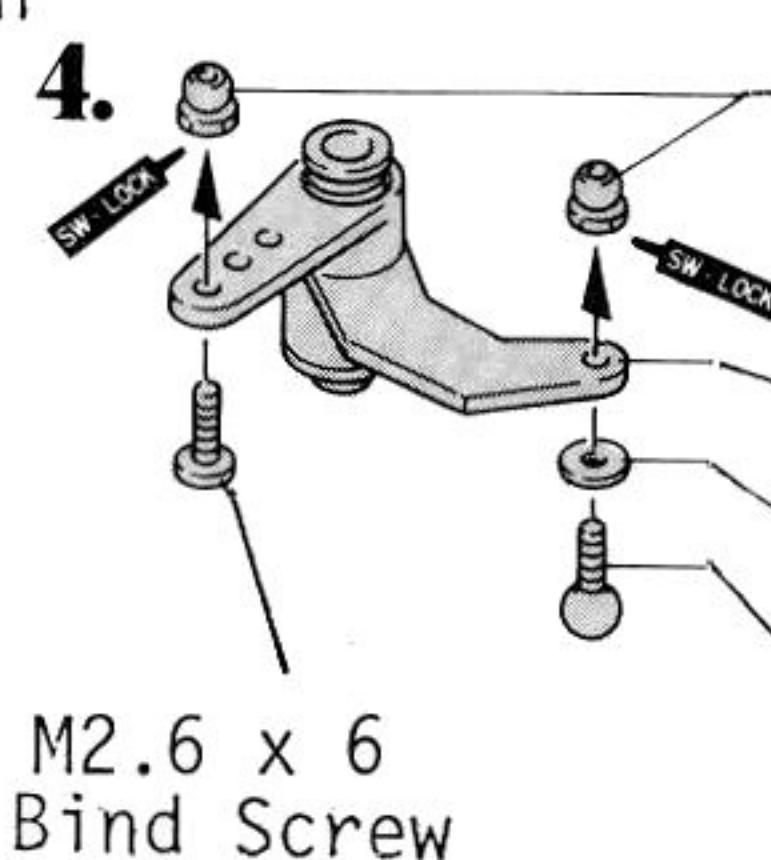
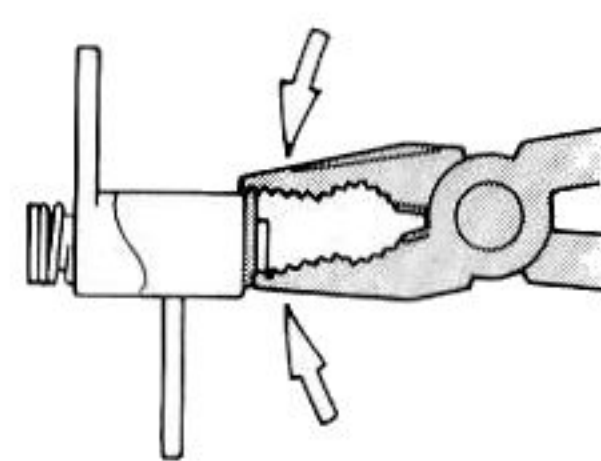
[Assembly of Servo Saver (A)]



2. Push E-Ring into groove.



3. Attach them with pliers.

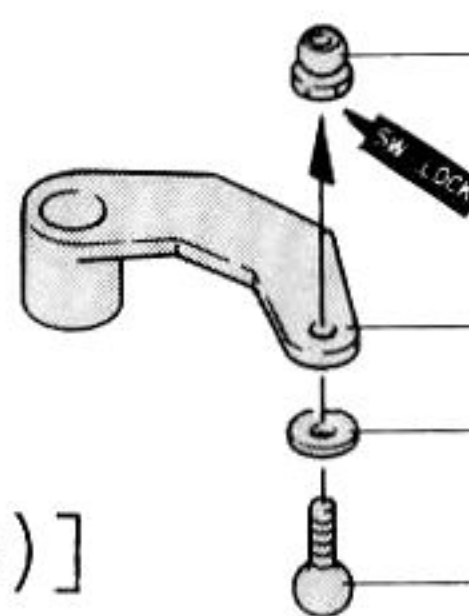


③ Ball Nuts

34 Servo Saver
(A)
2.6 Washer
(Black Color)
118 M2.6 Pivot
Ball (Black
Color)

③④ Servo Saver (A)
.... 1set

 —  Ball Nut



35 Servo Saver (B)

M2.6 Washer (Black Color)

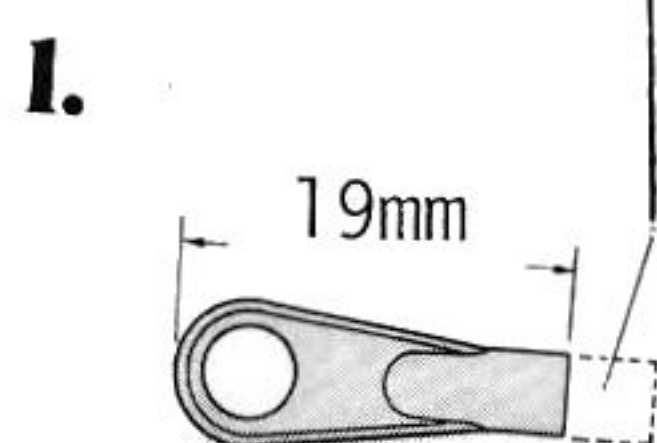
(118) M2.6 Pivot Ball (Black Color)

[Assembly of Servo Saver (B)]

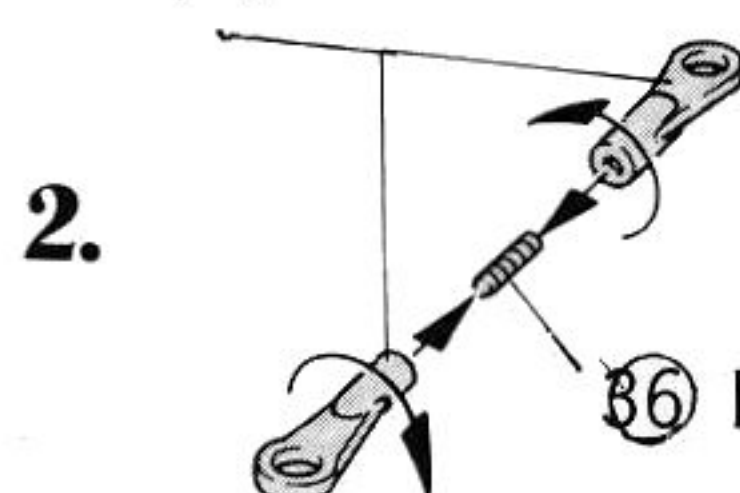
14 INSTALLATION OF SERVO SAVER

[Screw in the Ball End]

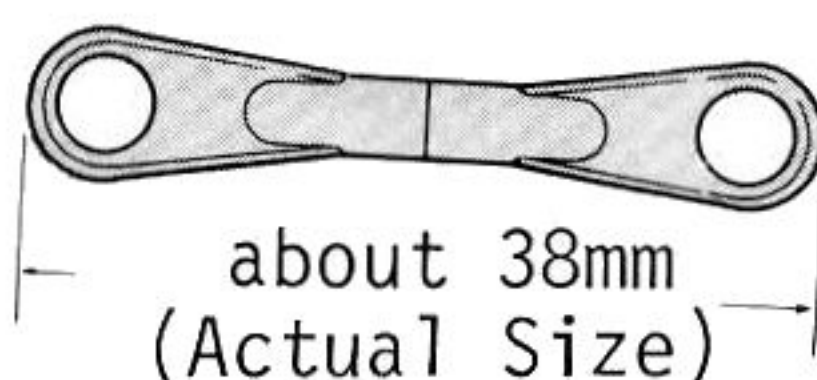
Remove this portion with
knife.



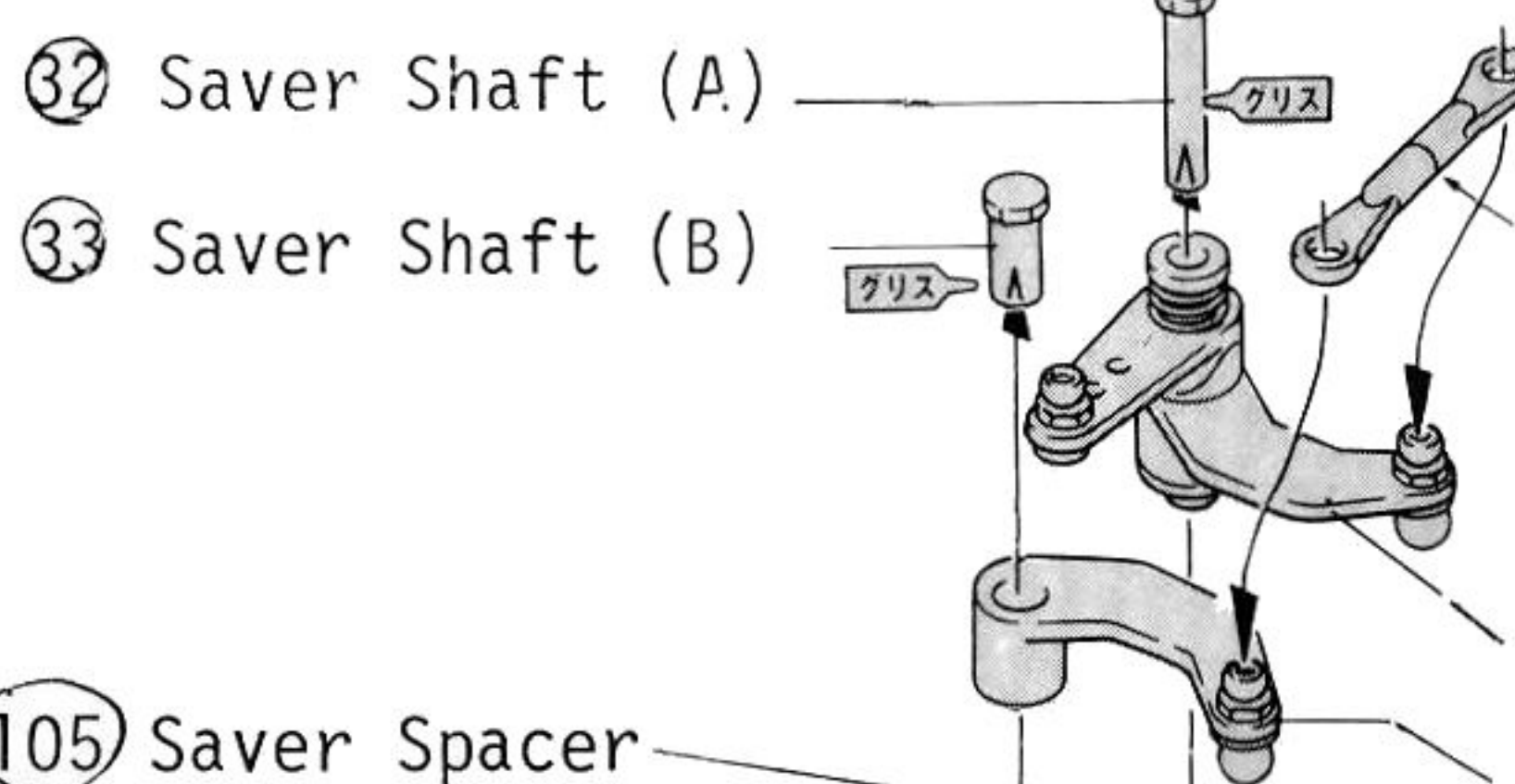
37 Ball End (S)



36 M2 Shaft



about 38mm
(Actual Size)



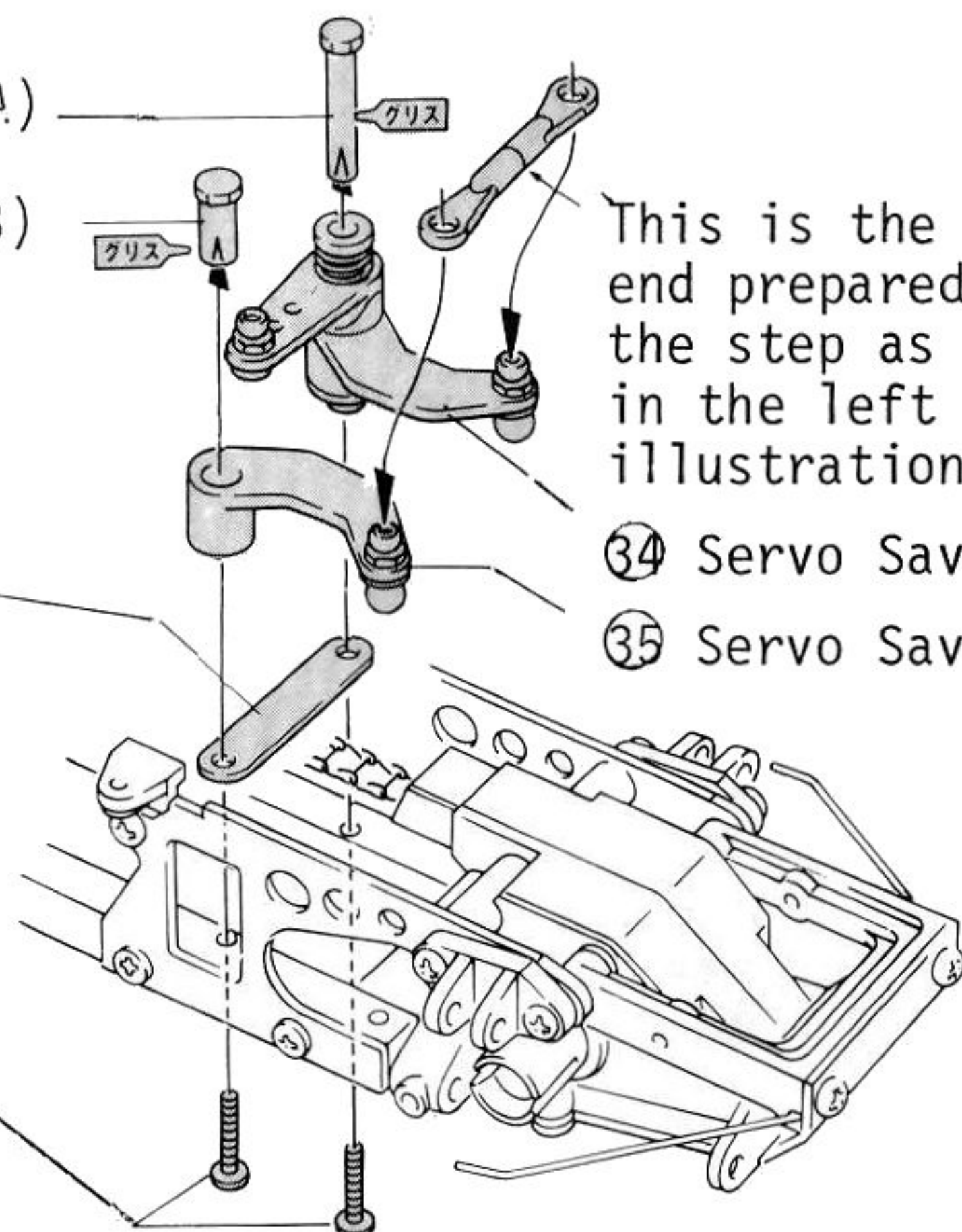
This is the ball end prepared in the step as shown in the left side illustration.

③4 Servo Saver(A)

③⑤ Servo Saver(B)

105 Saver Spacer

M2.6 x 15
Bind Screw

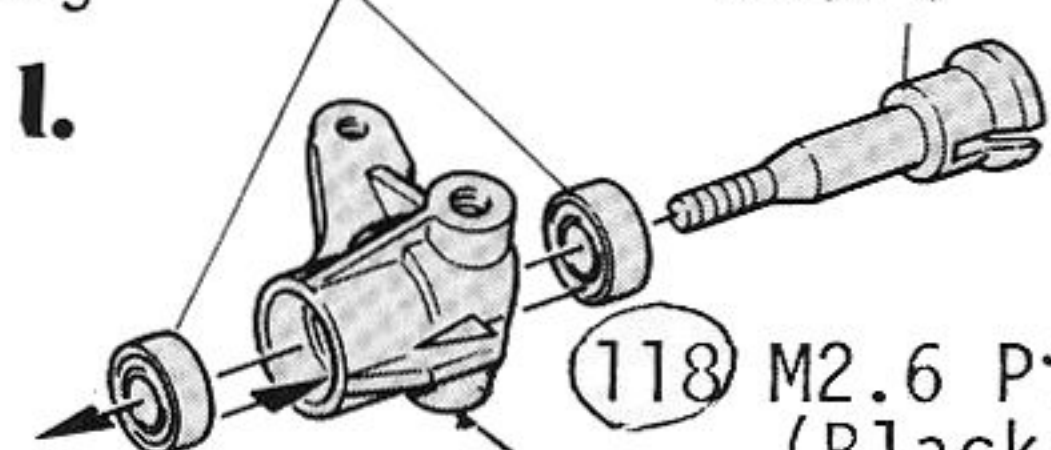


15 ASSEMBLY OF KNUCKLE ARM

① 5ø x 10
Bearing

④ Front
Shaft

*Before installing the knuckle arm onto chassis, be certain to confirm which is 1 (L) and 2 (R).



2.

① 118 M2.6 Pivot Ball
(Black Color)

③ 39 Knuckle Arm 1 (L)

M2.6 Nut

③ 38 King Pin

M3
Pivot Ball
(Silver Color)

④ 40 Knuckle Arm
2 (R)

④ 42 Front Hub (L)
(Plastic)

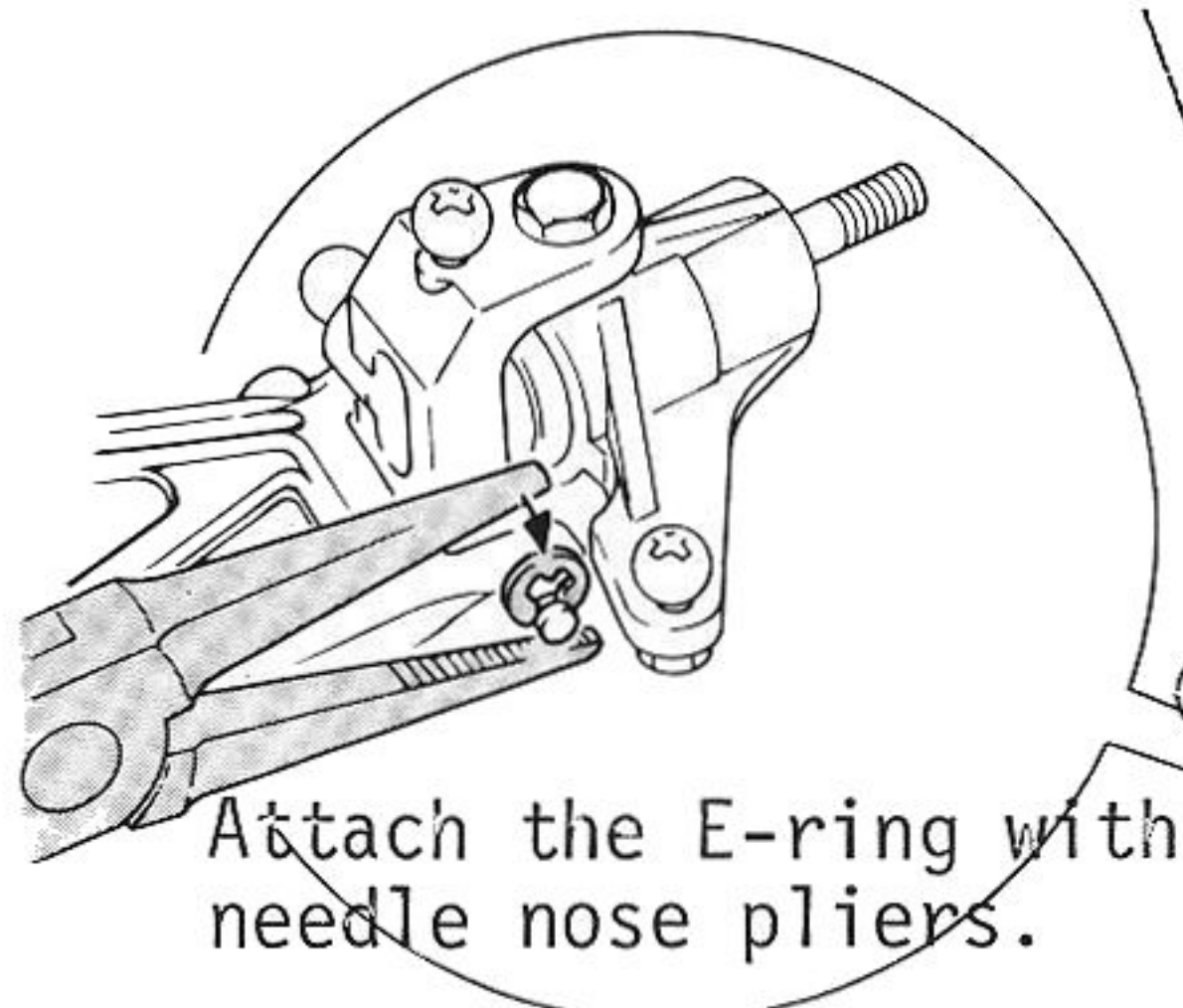
Leave a gap of 1mm.

③ 38 King Pin

④ 43 Front Hub (R) (Plastic)

16 INSTALLATION OF FRONT SUSPENSION ARM

⑧ 8 Stabilizer End
Ball (Gold Color)



M3x4
Set Screw
(Silver Color)

④ 44 E-ring

④ 45 Suspension Shaft (A)
(Silver Color)

"Flat" on
surface.

④ 48 Front
Sus.
Arm

④ 46 Suspension
Shaft (B)
(Silver Color)

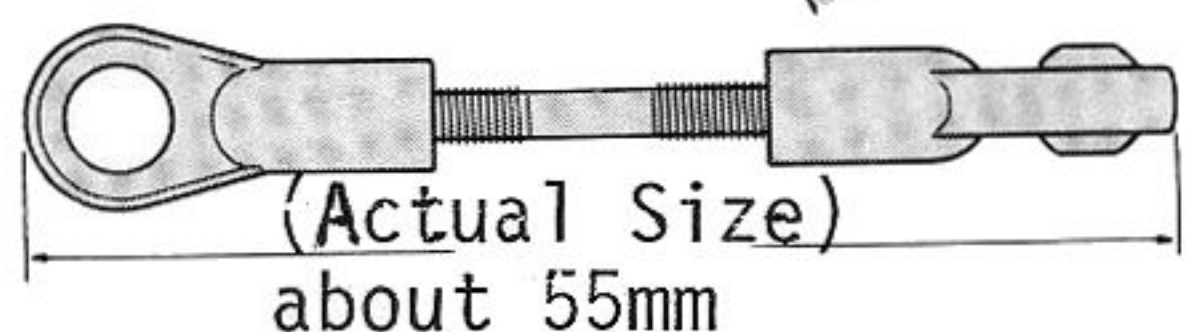
17 INSTALLATION OF FRONT UPPER ROD

[Make two Upper Rods]

⑥ 60 Ball End (L)

④ 49 5.8ø Ball

⑥ 61 Upper Rod



Push Ball end
onto pivot ball.

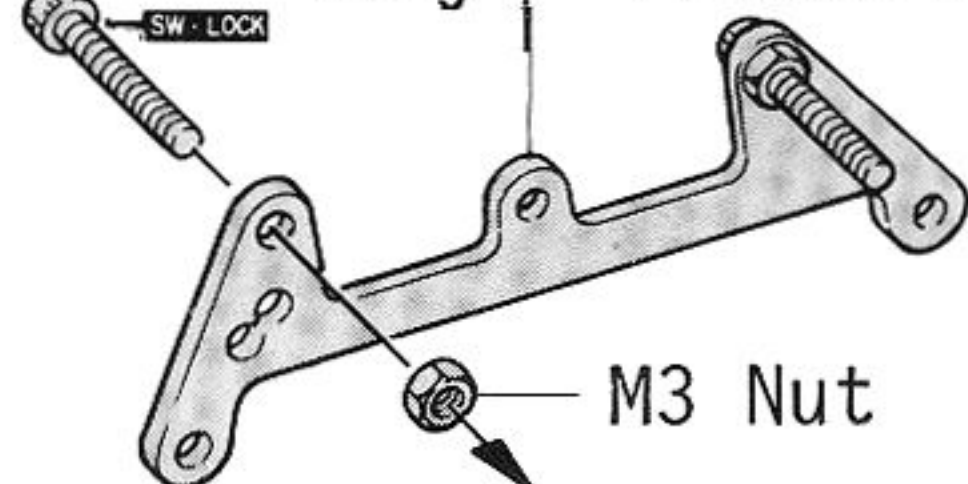
This is the front shock
prepared in the step as
shown in the left side
illustration.

[Attach M3x18 cap bolts to the
front shock stay]

M3 x 18
Cap Bolt

⑤ 52 Front
Shock
Stay

This is the upper rod prepared
in the step as shown
in the left side
illustration.



M3 Nylon Nut

M3 Nylon Nut

M3 x 15 Screw

⑤ 53 Swing Shaft

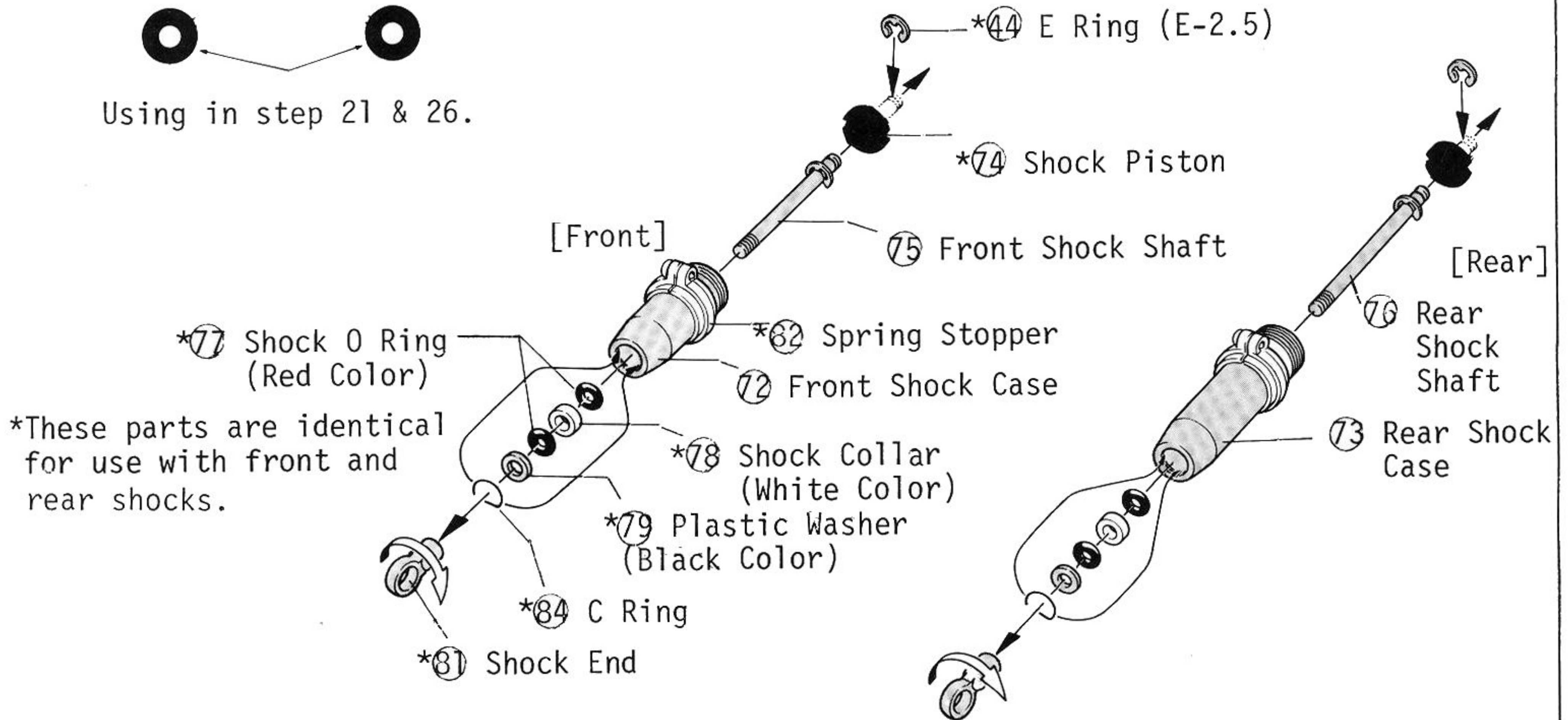
18 ASSEMBLY OF SHOCK

74 Shock Piston

Unused in
this kit.

Cut off the stump of plastic
runner carefully.

Using in step 21 & 26.



79 Plastic Washer (Black Color)

78 Shock Collar (White Color)

Fit a C-ring here. (Be careful not
to loose it.)

Fit it into this groove.

84 C Ring

77 Shock O Ring 72, 73 Shock Case

Secure the piston with an E-ring.

44 E Ring
(E-2.5)

74 Shock Piston

75 76 Shock
Shaft

Let the shaft go through the shock
case, and screw in the shock end.

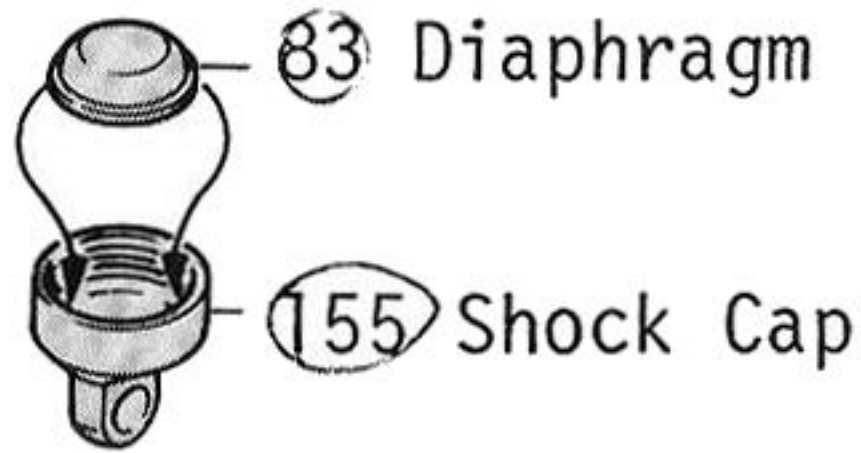
81 Shock End

Screw it in.

19 FILLING SHOCK WITH OIL

[Installation of Diaphragm]

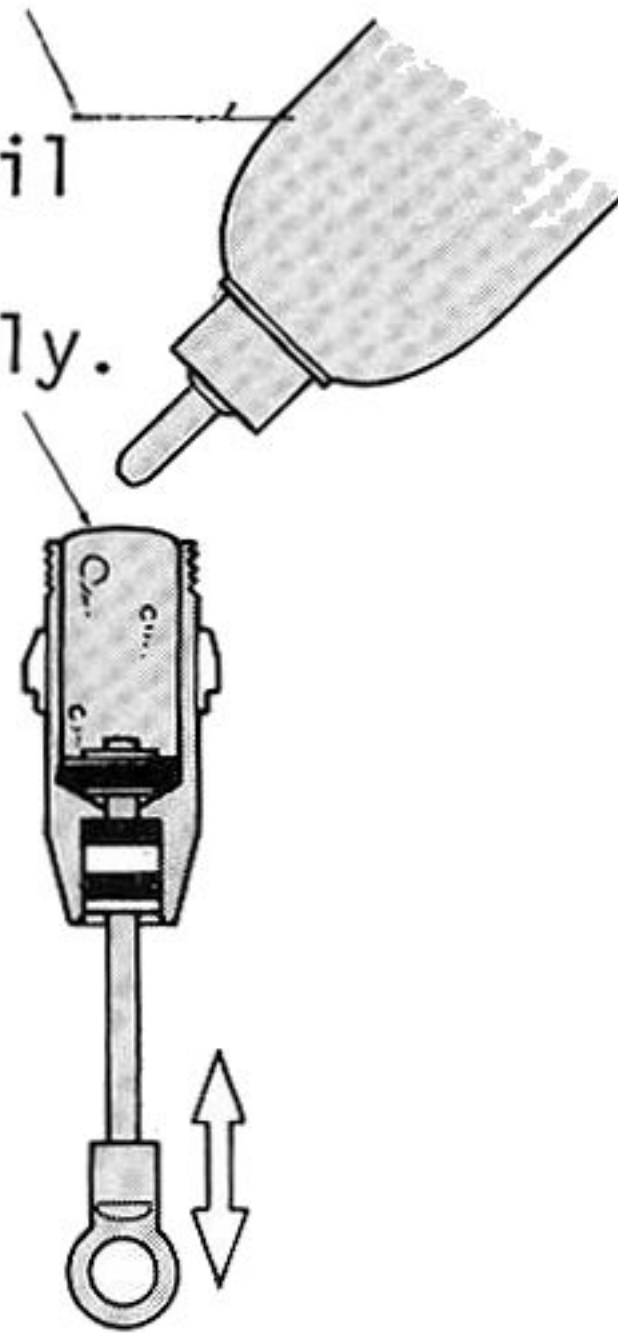
Fit the diaphragm 83 into the shock cap 155.



Fit it into the groove rigidly.

1. ⑦ Shock Oil

Put the oil a little excessively.



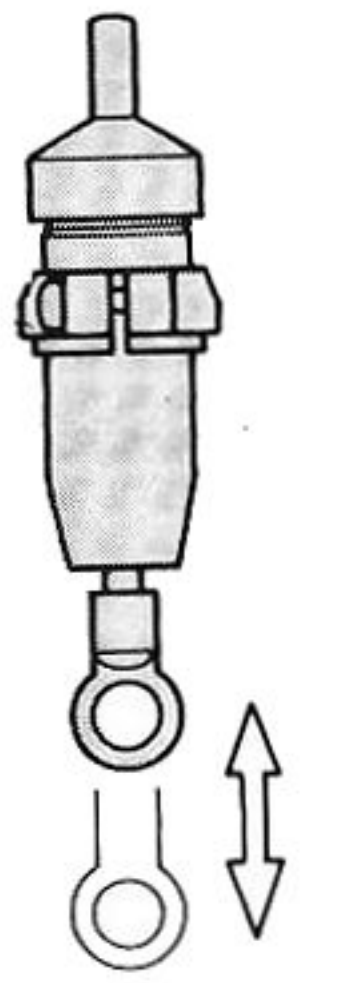
2.

①⑤⑤ Shock Cap

Tighten the cap firmly so that no oil will run out.



3.



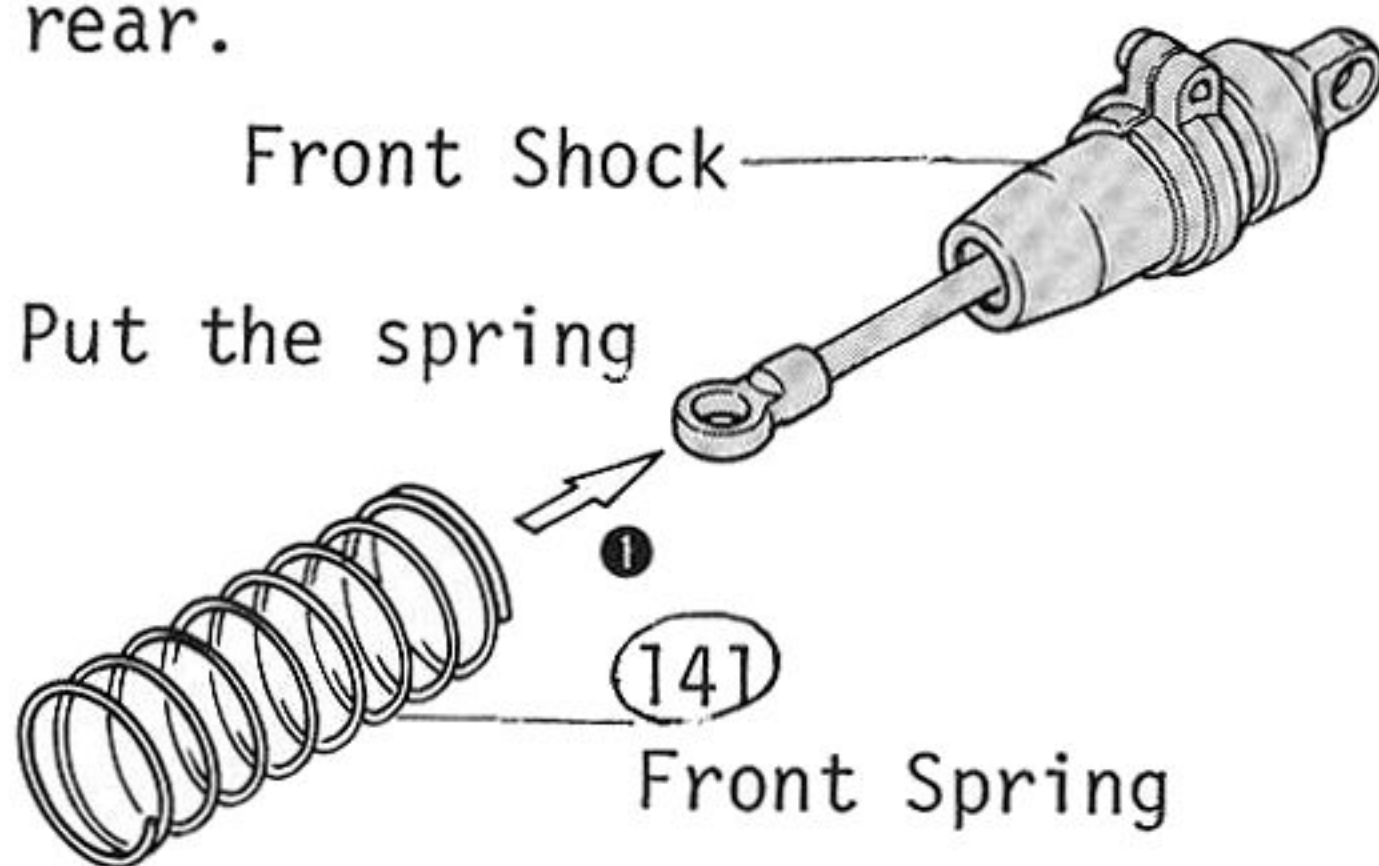
Movable smoothly

1. Push the piston all the way down and pour the oil little by little. Move the piston up and down slowly to get rid of air bubbles.
2. Keep the piston at the bottom and screw in the shock cap ①⑤⑤ gently, then any excessive oil will flow out.
3. Check to see if the piston will move smoothly by reciprocating it.

20 INSTALLATION OF SHOCK SPRING

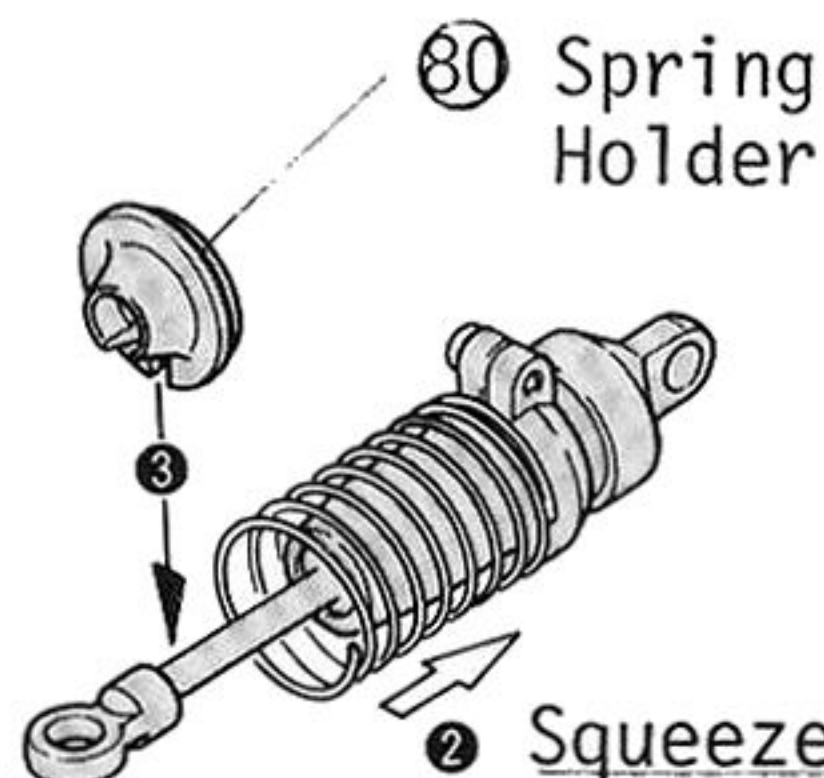
The shorter spring is for front and the longer for rear.

The last step in assembling the shocks is to fit the spring holder 80 by compressing the spring.



Put the spring

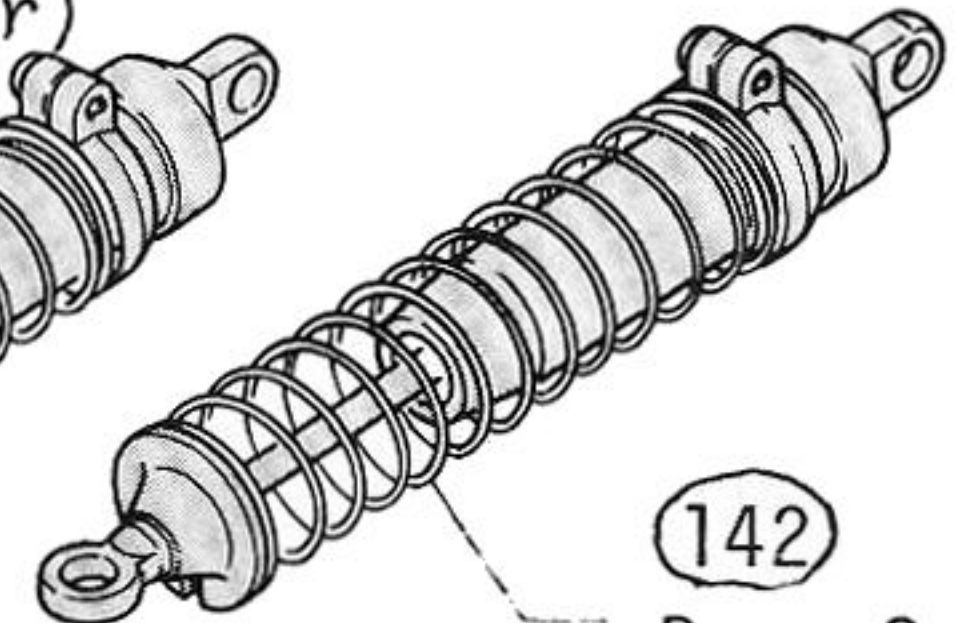
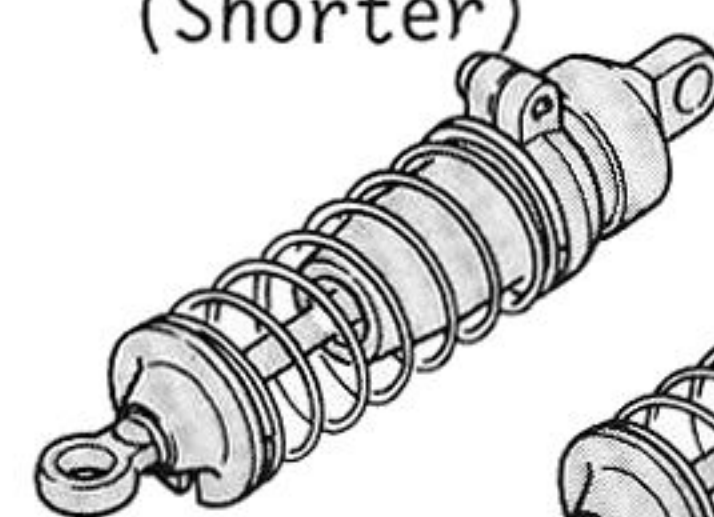
①④① Front Spring



② Squeeze it.

*Front Shock (Shorter)

*Rear Shock (Longer)

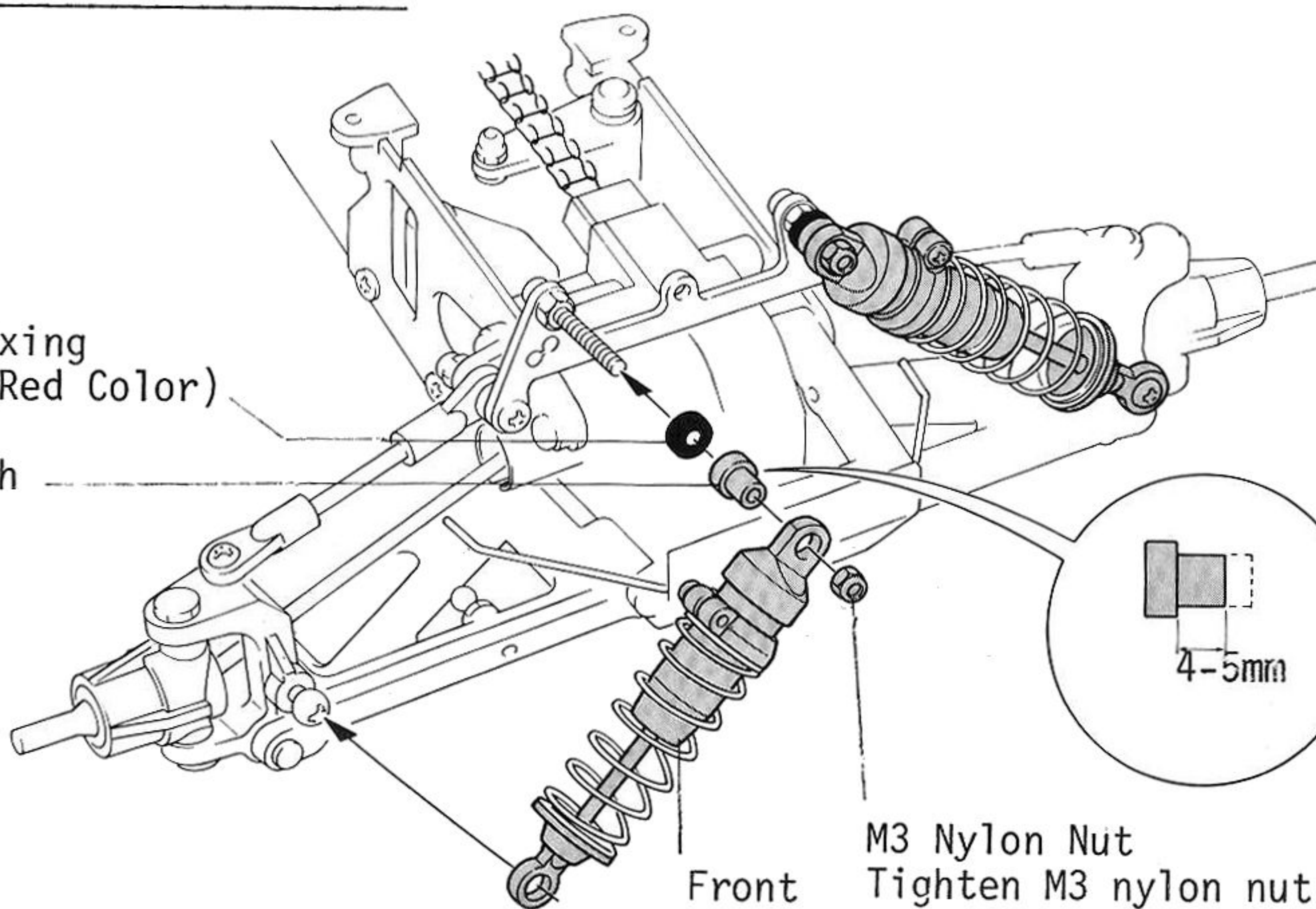


①④② Rear Spring

21 INSTALLATION OF FRONT SHOCK

①⑤④ Shock Fixing Collar (Red Color)

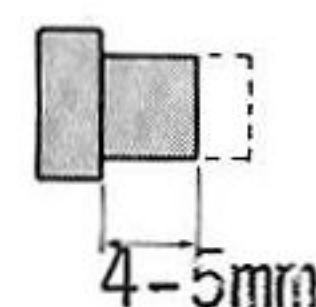
⑤④ Shock Bush



Front Shock

M3 Nylon Nut

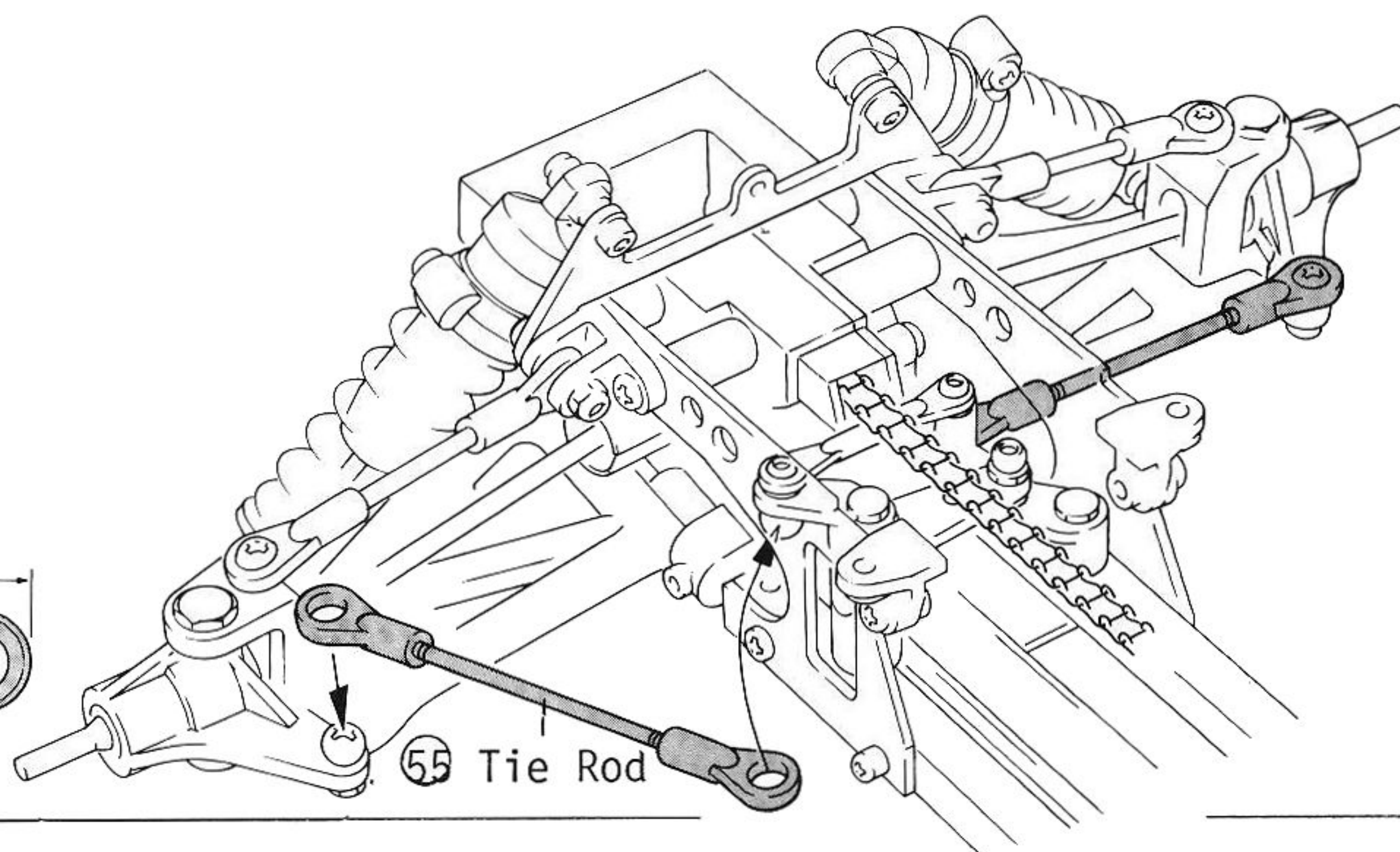
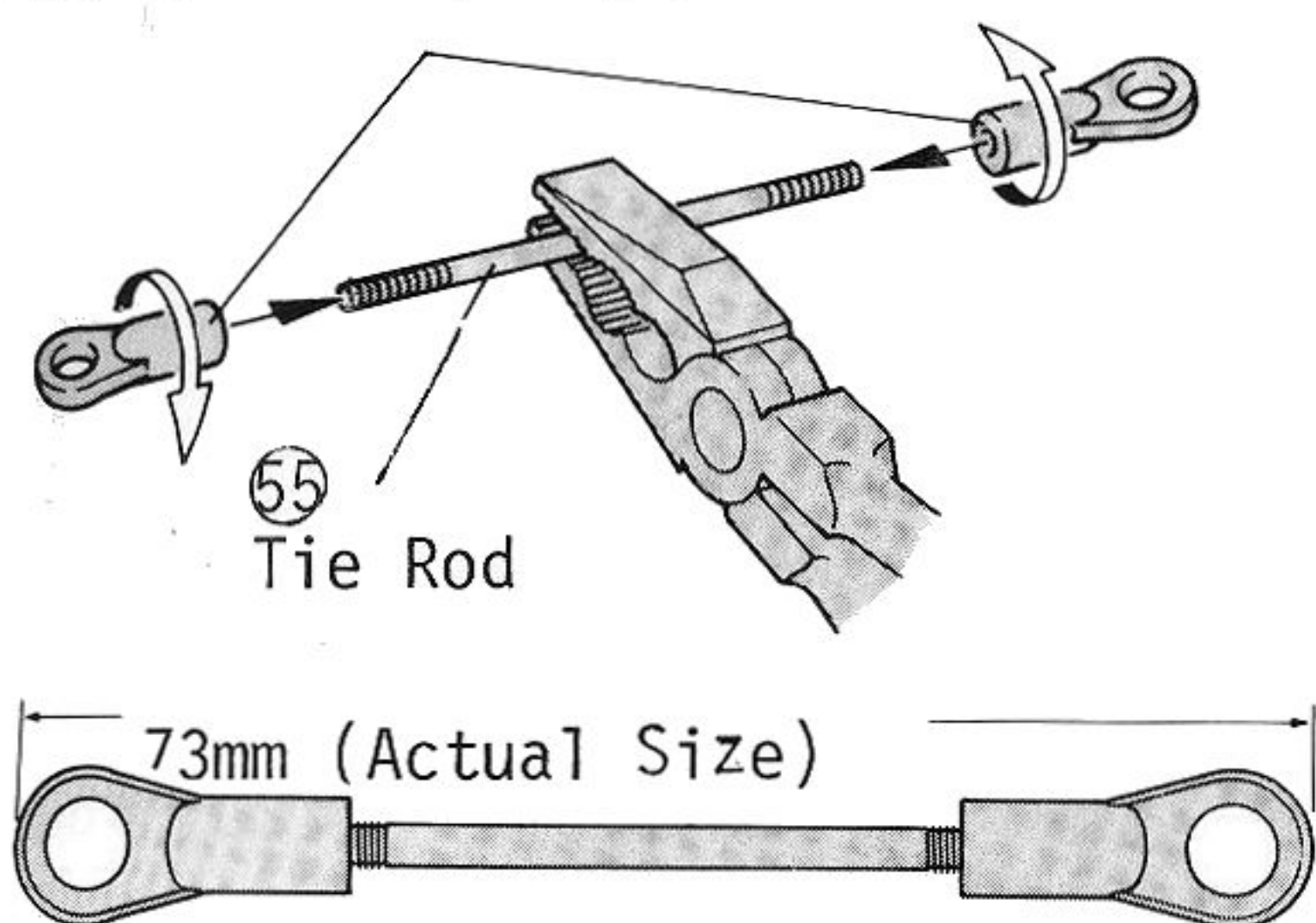
Tighten M3 nylon nut firmly but do not crush rubber shock bushing.



Trim bushing as shown.

22 INSTALLATION OF TIE ROD

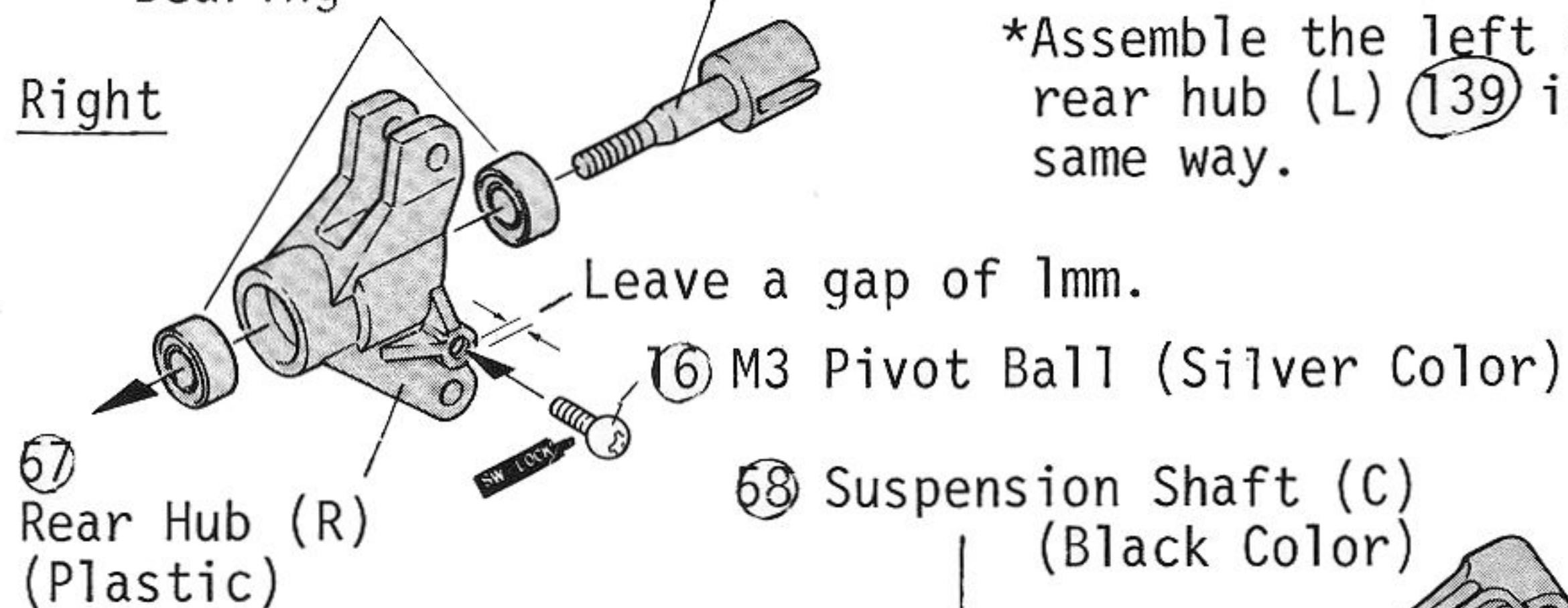
[Make two Tie Rod]
 60 Ball End (Large)



23 INSTALLATION OF REAR HUB

119 5øx10 Bearing
 56 Rear Shaft

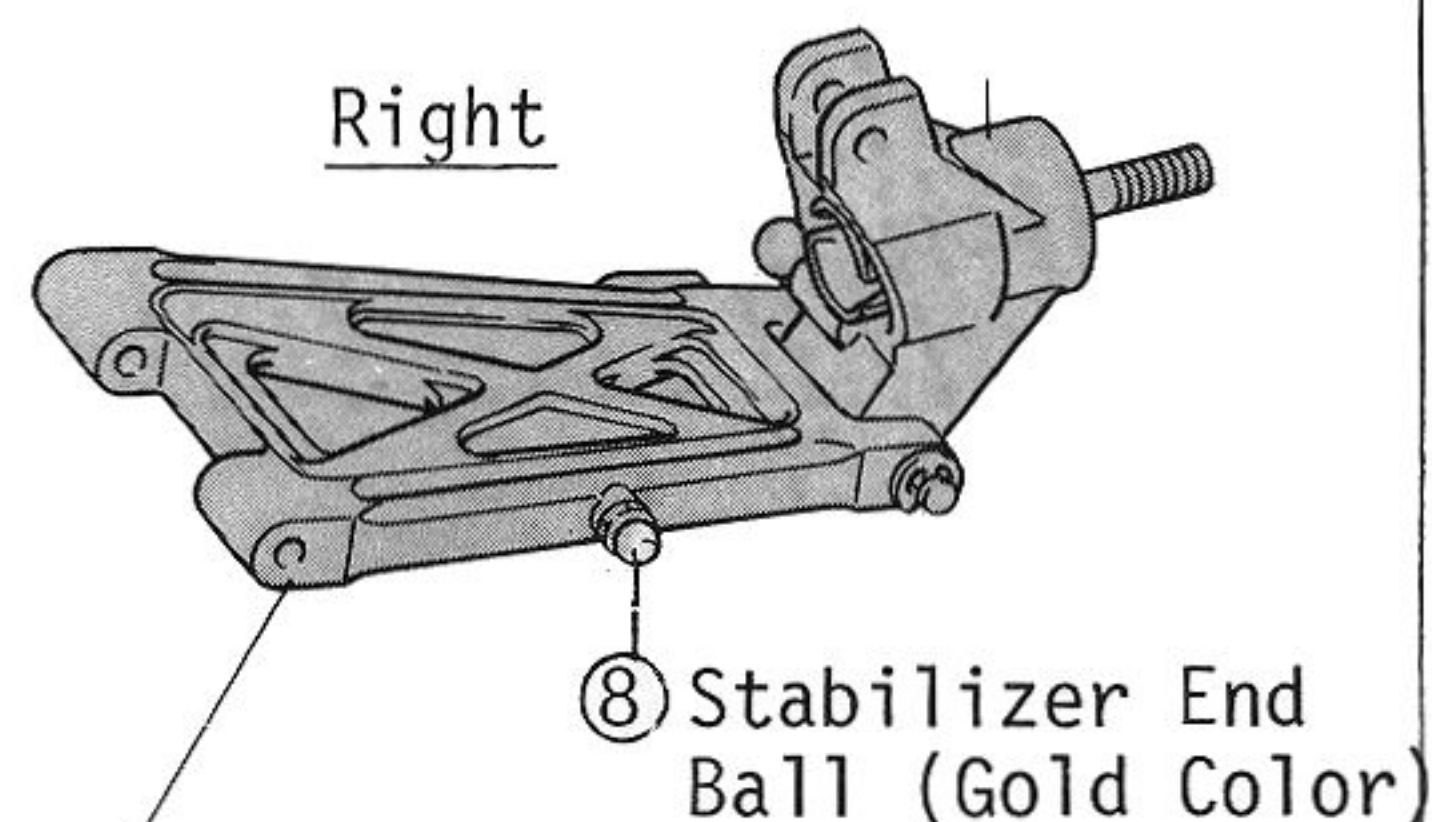
Right



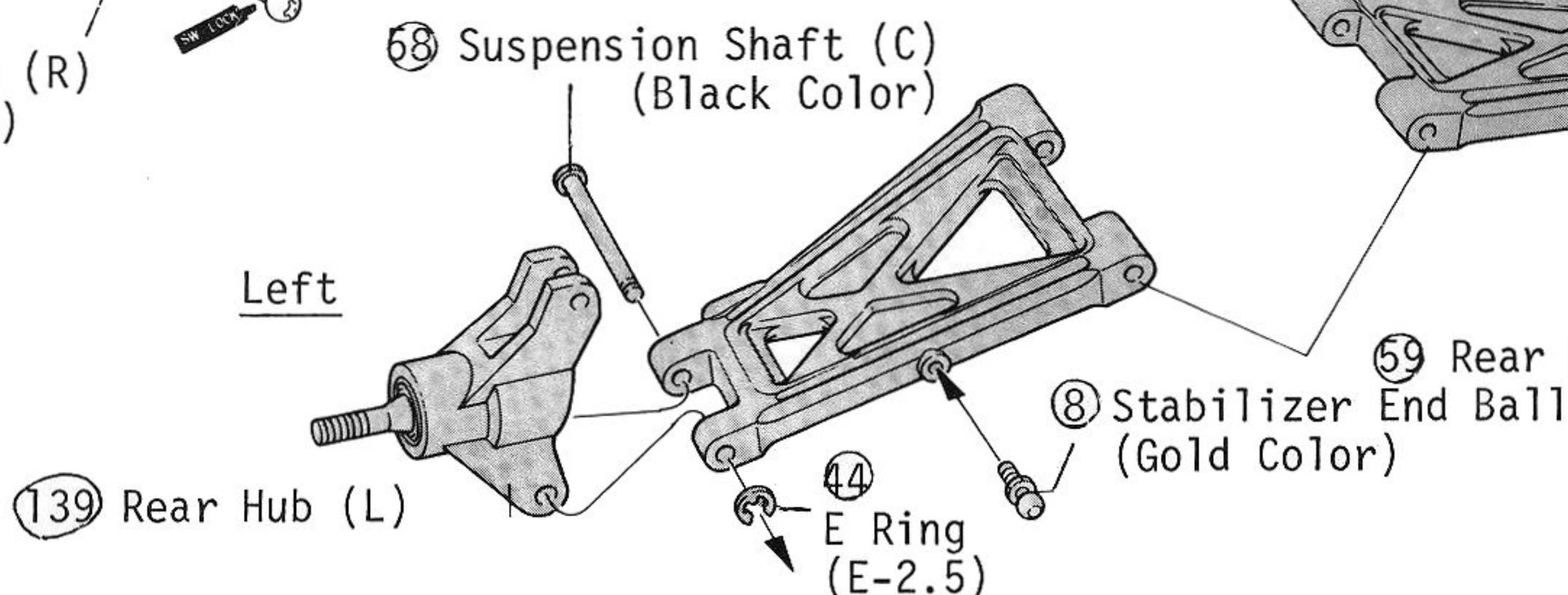
*Assemble the left side rear hub (L) 139 in the same way.

57 Rear Hub (R)

Right



Left



8 Stabilizer End Ball (Gold Color)

59 Rear Suspension Arm

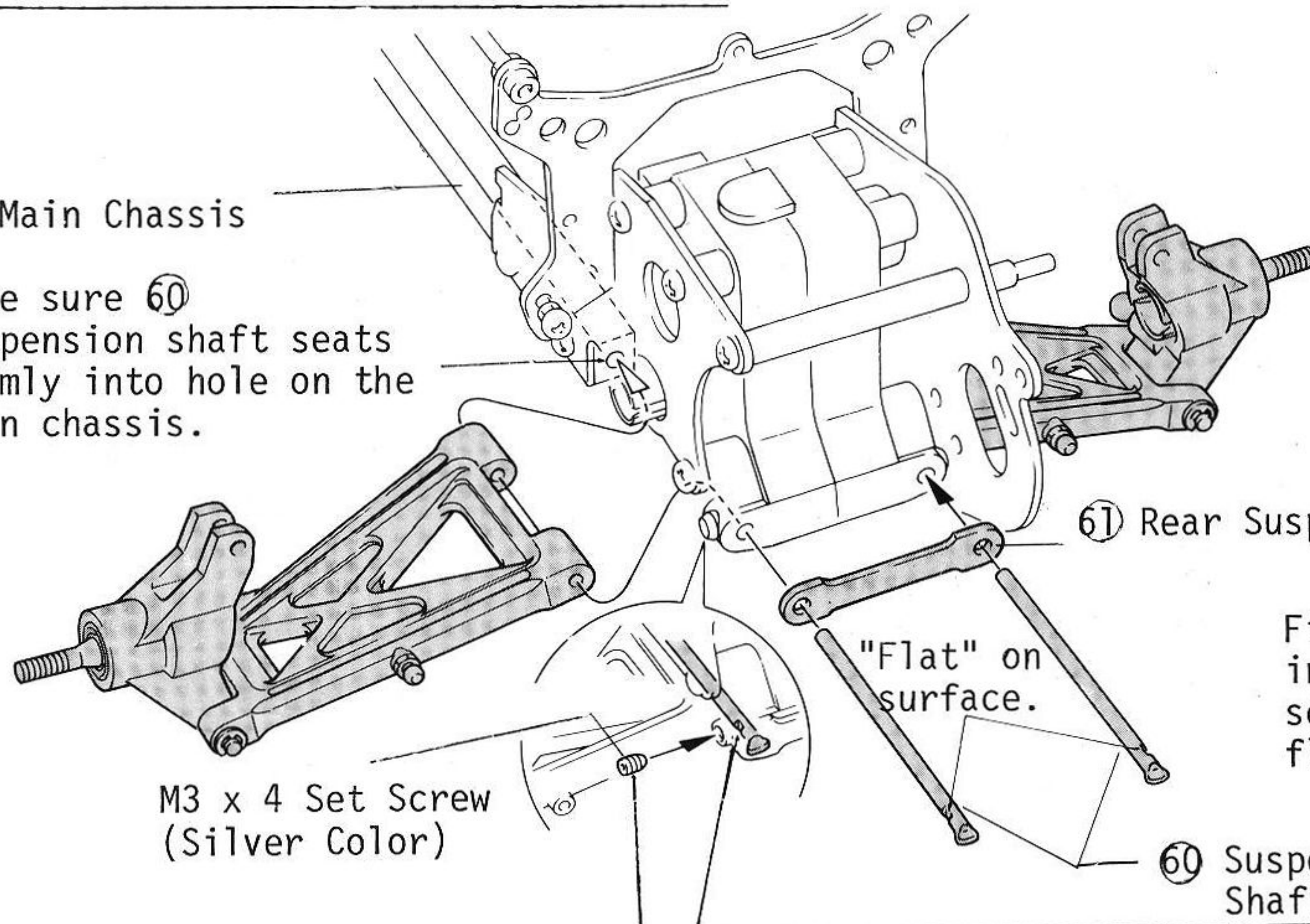
8 Stabilizer End Ball (Gold Color)

14 E Ring (E-2.5)

24 INSTALLATION OF REAR SUSPENSION ARM

22 Main Chassis

Make sure 60 Suspension shaft seats firmly into hole on the main chassis.



61 Rear Suspension Strut

Fix the suspension shaft in such a way that the setscrew will hit on a flat on the shaft.

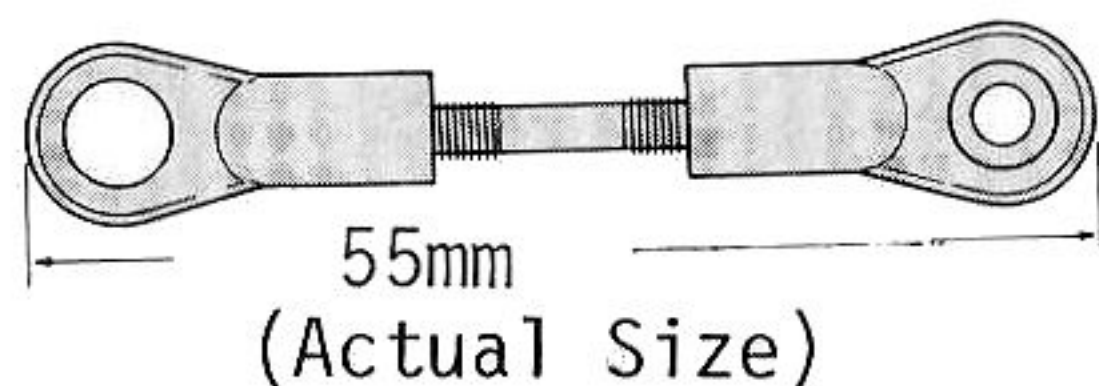
60 Suspension Shaft (D)

25 INSTALLATION OF REAR UPPER ROD

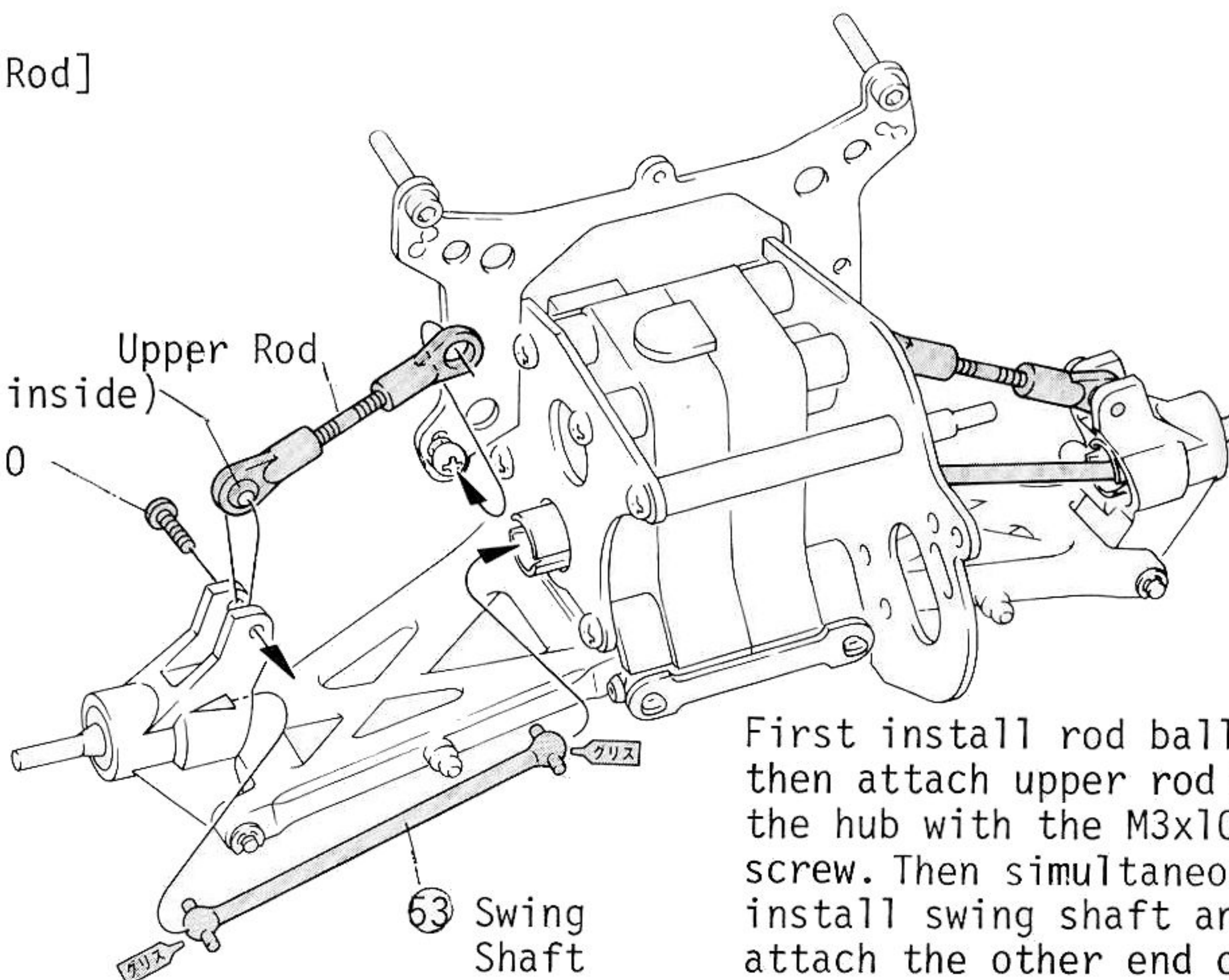
50 Ball End (L) [Make two Upper Rod]

49 5.8 ϕ Ball

51 Upper Rod



Upper Rod
(Ball inside)
M3 x 10
Screw



63 Swing
Shaft

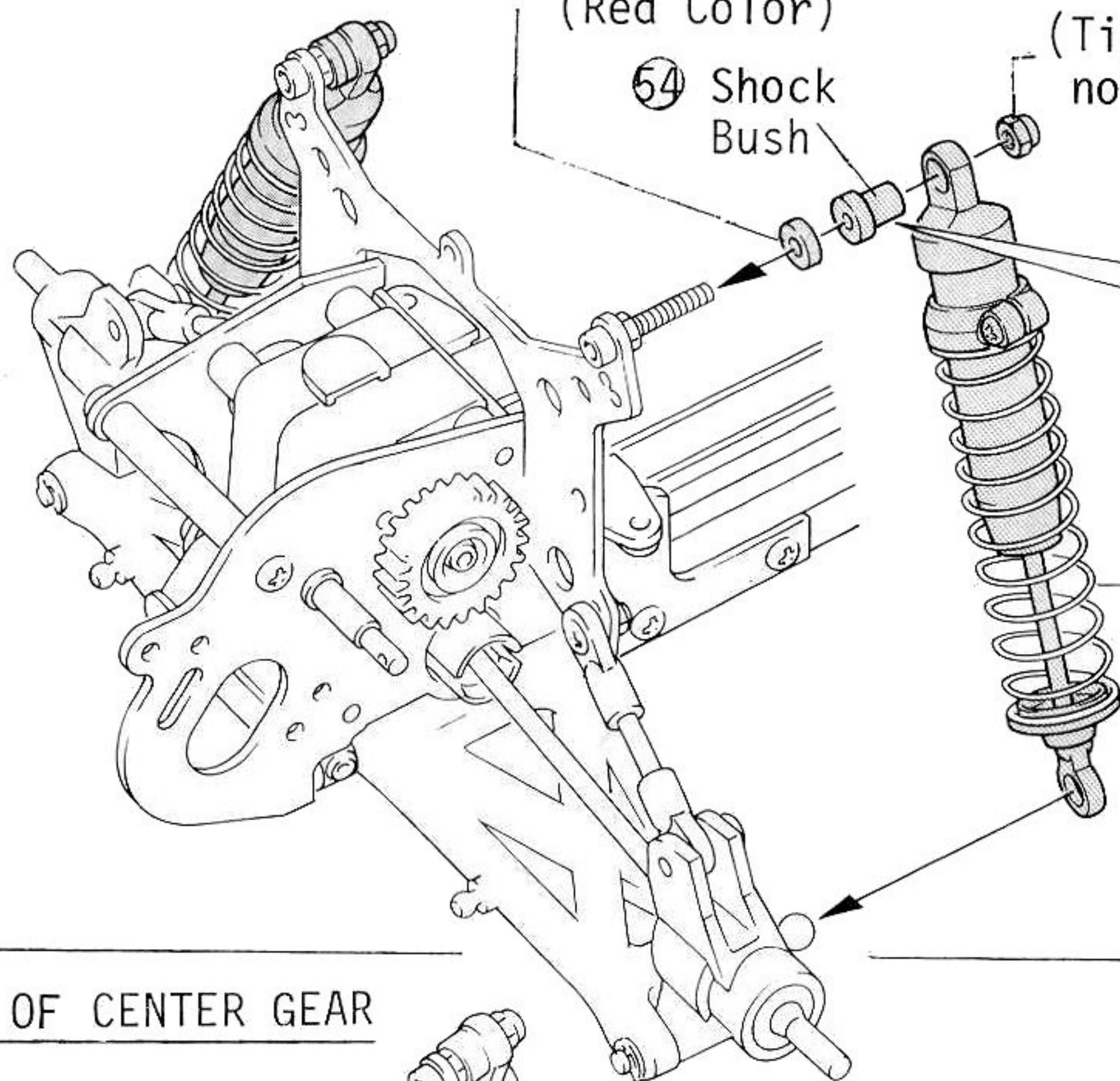
First install rod ball, then attach upper rod to the hub with the M3x10 screw. Then simultaneous install swing shaft and attach the other end of upper rod as shown.

26 INSTALLATION OF REAR SHOCK

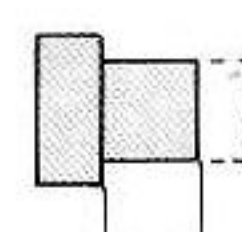
154 Shock Fixing Collar
(Red Color)

54 Shock
Bush

(Tighten M3 nylon nut firmly but do not crush rubber shock bushing.)

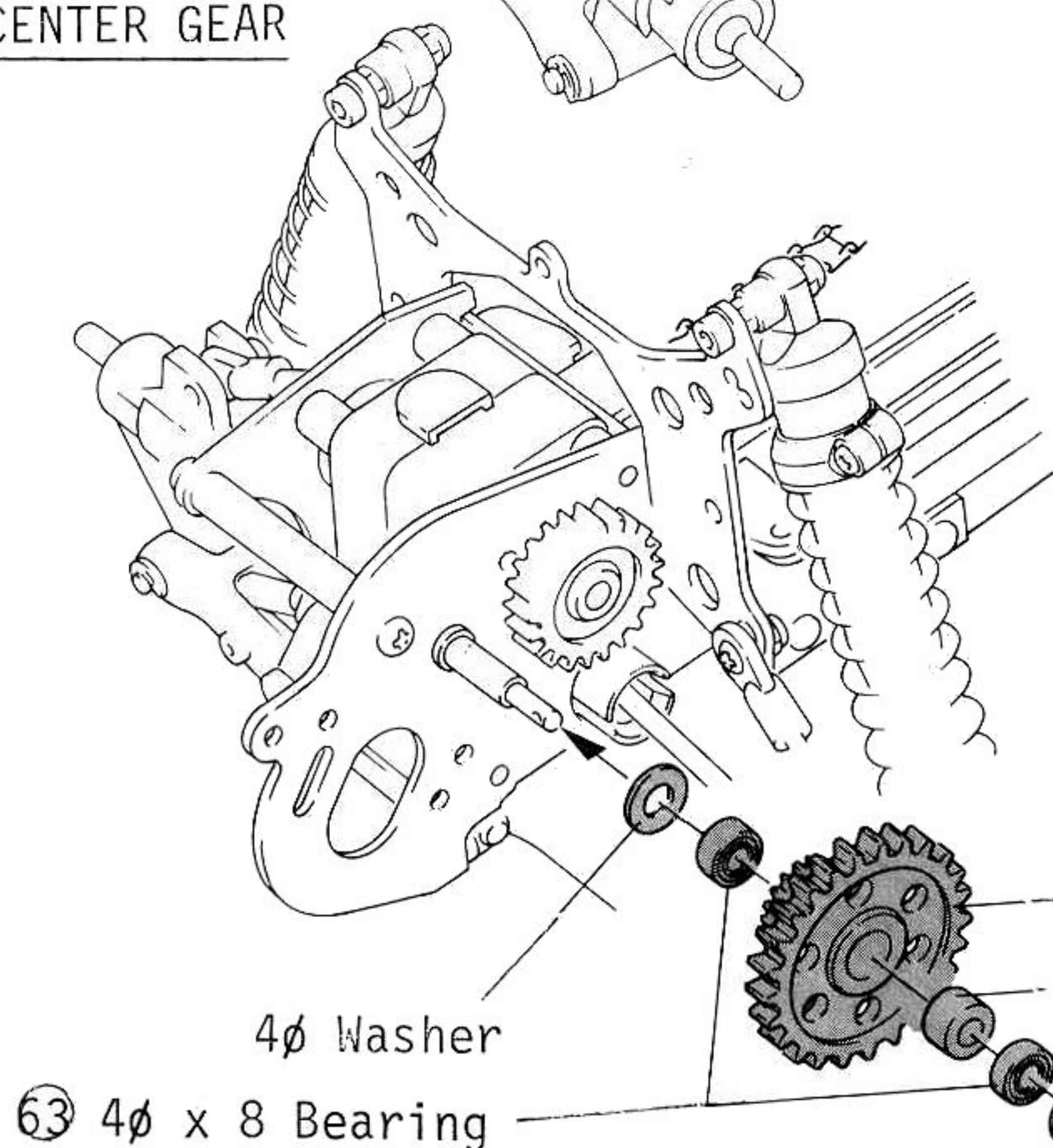


Rear Shock



4-5mm
Trim bushing
as shown.

27 INSTALLATION OF CENTER GEAR



84 Center Gear

68 Bearing Collar

4 ϕ Washer

65 O Ring (Black Color)

4 ϕ Washer

63 4 ϕ x 8 Bearing

28 INSTALLATION OF MOTOR

[Installation of Motor Cover]

(146) Motor Cleaner

1. (69) Motor Cover

Perforate the side as shown in the drawing before fitting the motor cleaner.

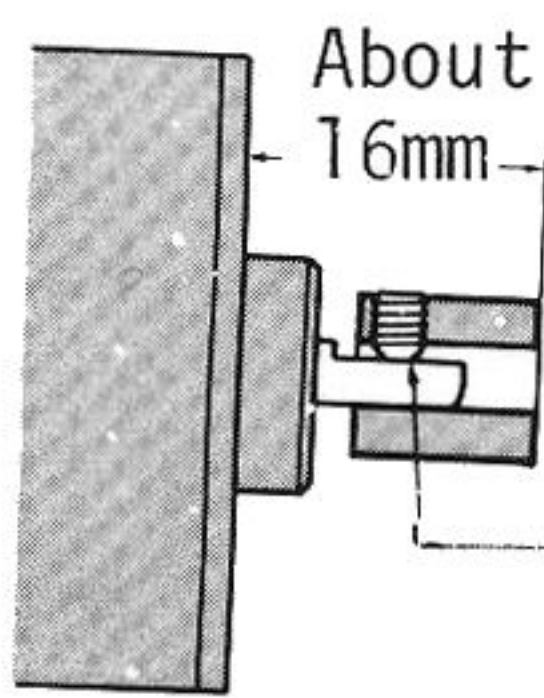
Put rubber cement on striped portion and install it inside of the motor cover.

(70) Le Mans 240S Motor

Feed the motor cords through the cover

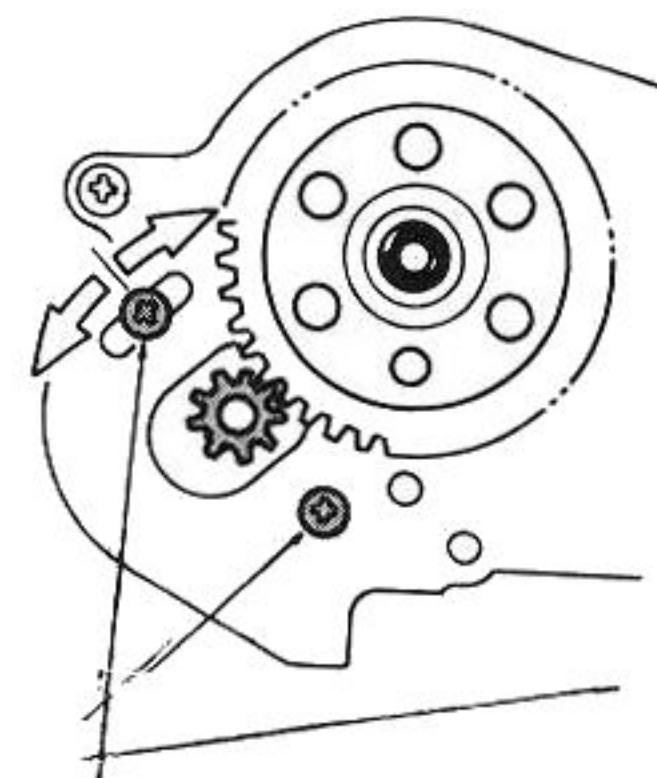
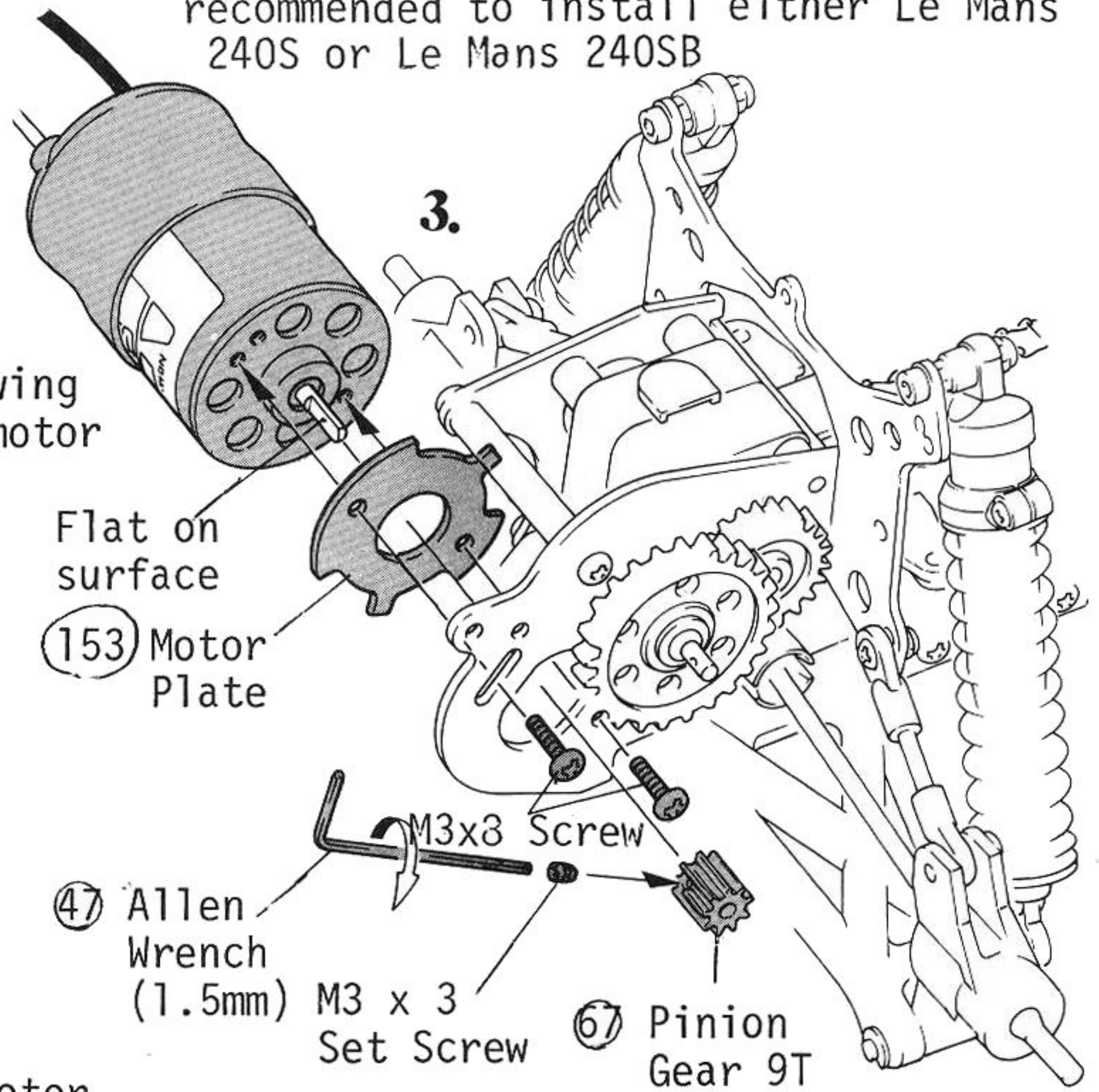
2.

Connect the motor cord and motor with solder. Red cord to (+) and white to (-)



Tighten set screw to flat surface on motor shaft.

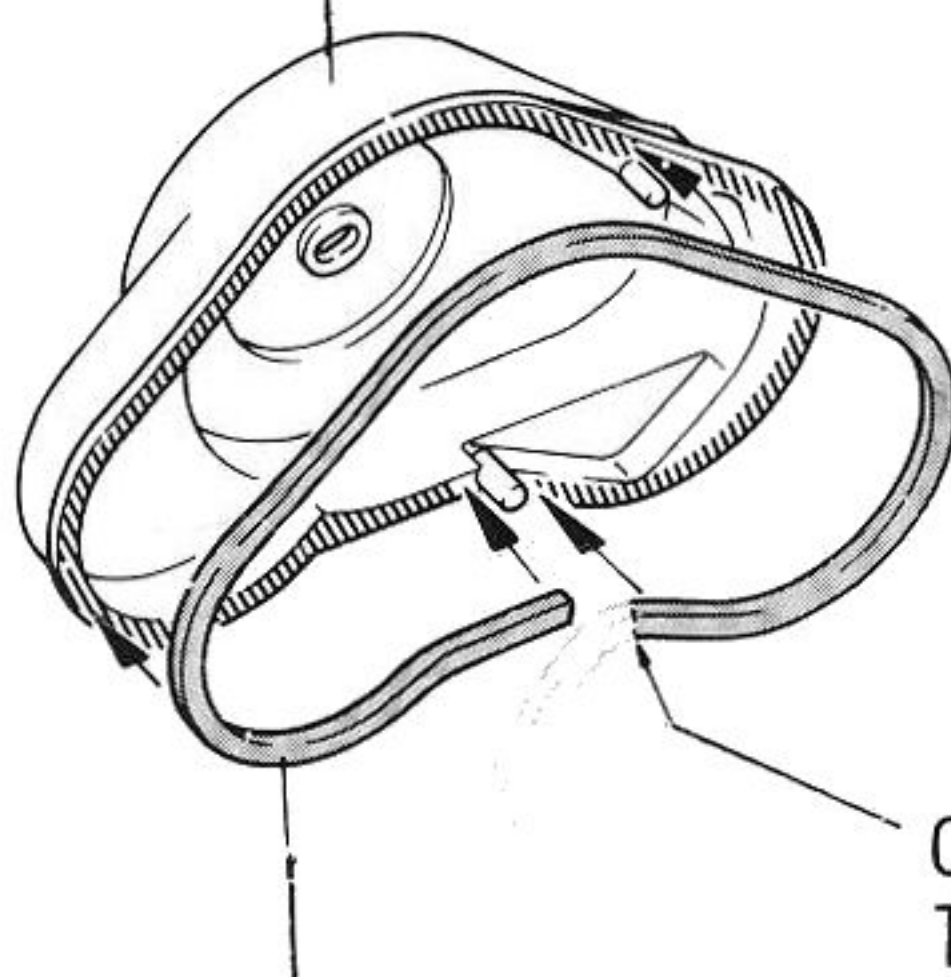
Motor for this kit is an option and recommended to install either Le Mans 240S or Le Mans 240SB



[Adjustment of rolling gear]
Adjust gear lash by loosening screws and sliding motor back and forth.

29 INSTALLATION OF GEAR COVER

(86) Gear Cover



Cut the seal to length.

(87) Gear Cover Seal (Home Rubber)

Unseal them from backing and seal them on striped portion.



(66) Hook Pin

30 INSTALLATION OF MINI-SIZE SERVO

Tighten very firmly and cut off excess.

88 Servo Spacer (A)

M3 x 6 Flat TP Screw

Tighten firmly.

[How to Fasten the Strap (S)]

The strap is so designed that it will not be undone after once fastened. So be sure where to fasten it.

1.

Pull it with pliers to fasten it tightly

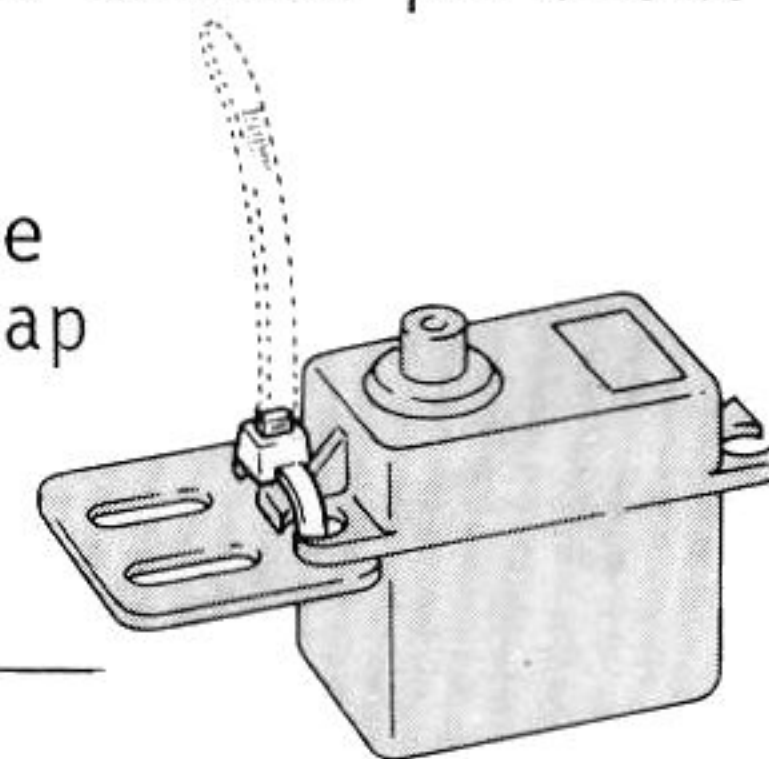
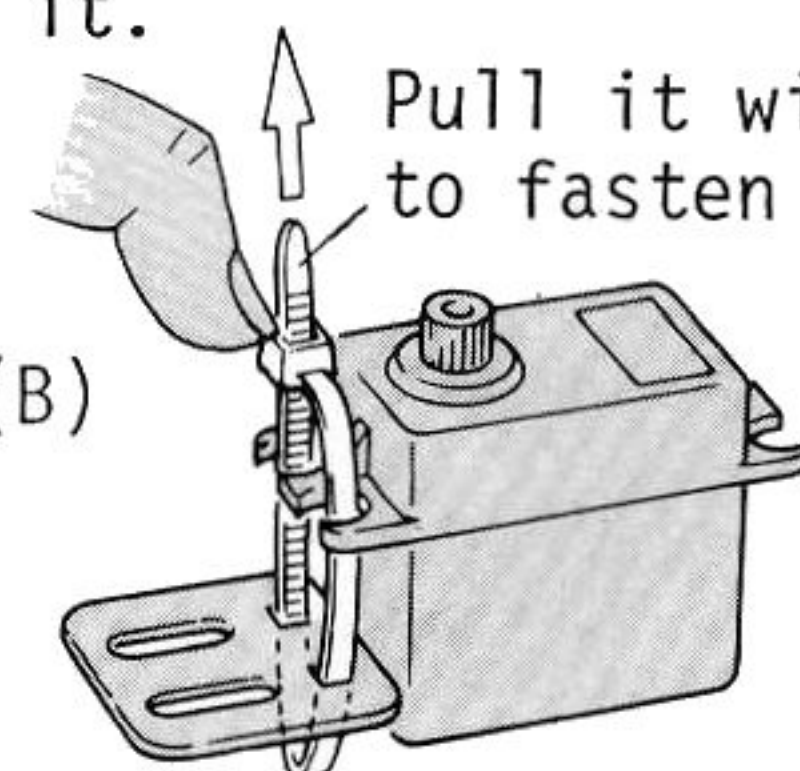
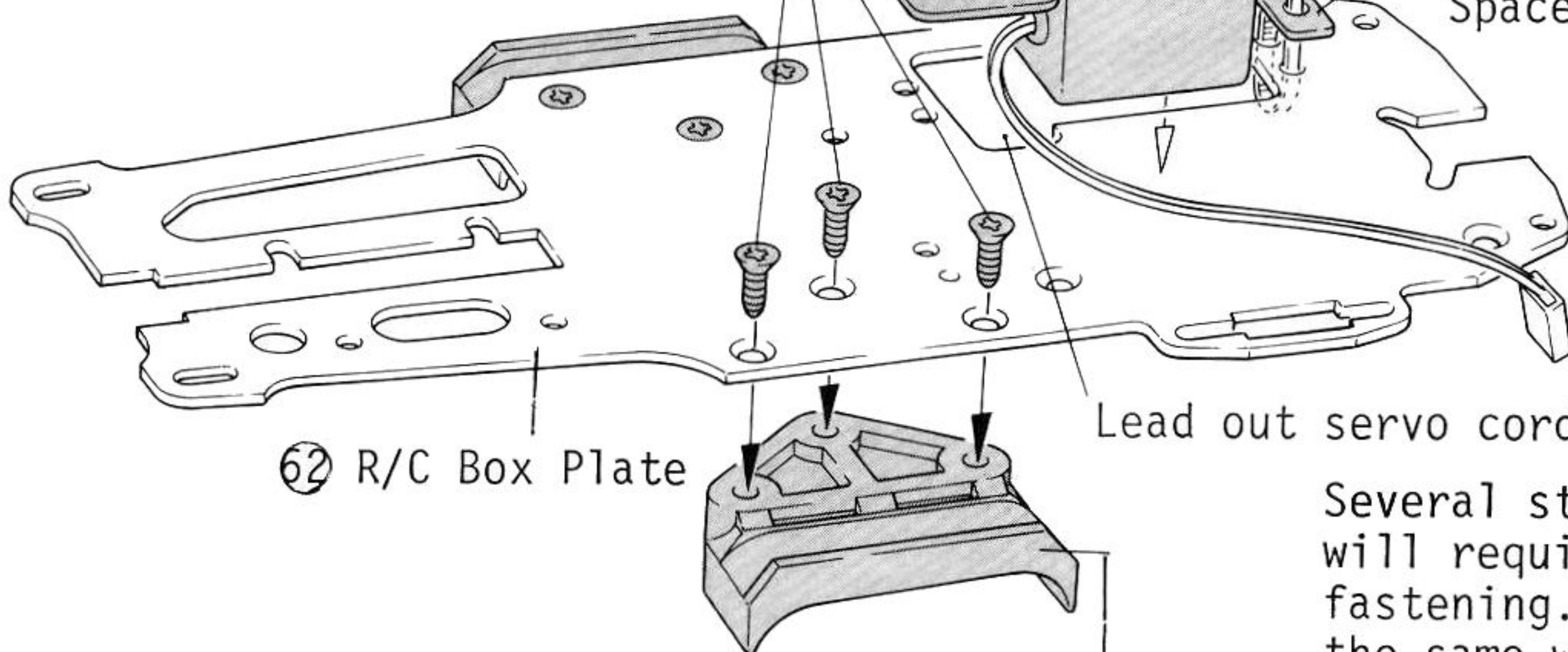
89 Servo Spacer (B)

2. After fastening it, cut off the excess portion.

Lead out servo cord.

Several steps to come will require the strap fastening. Do it in the same way.

128 Battery Holder



31 INSTALLATION OF MID-SIZE SERVO

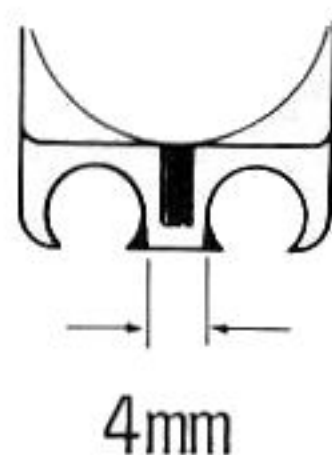
When employing any servo listed below, prepare it as shown in the drawing beneath.

Futaba ... FP-S28, FP-S138

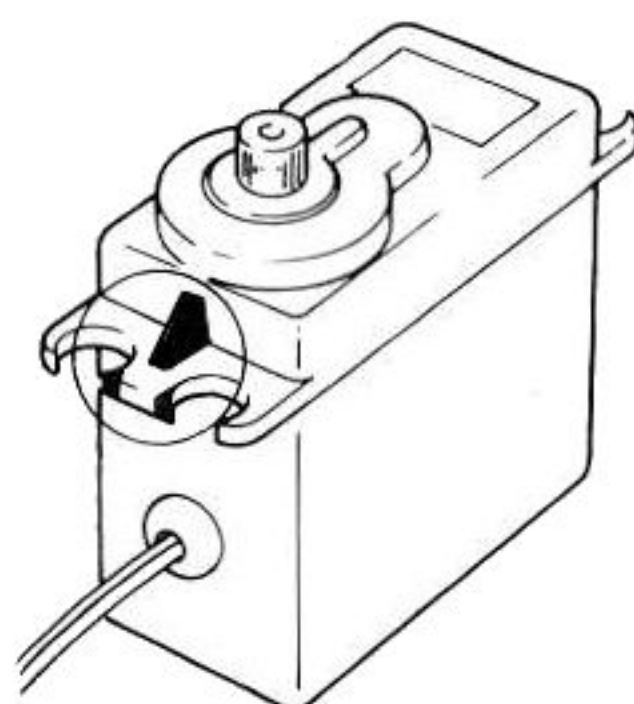
Sanwa SM631

KO PS-VM3

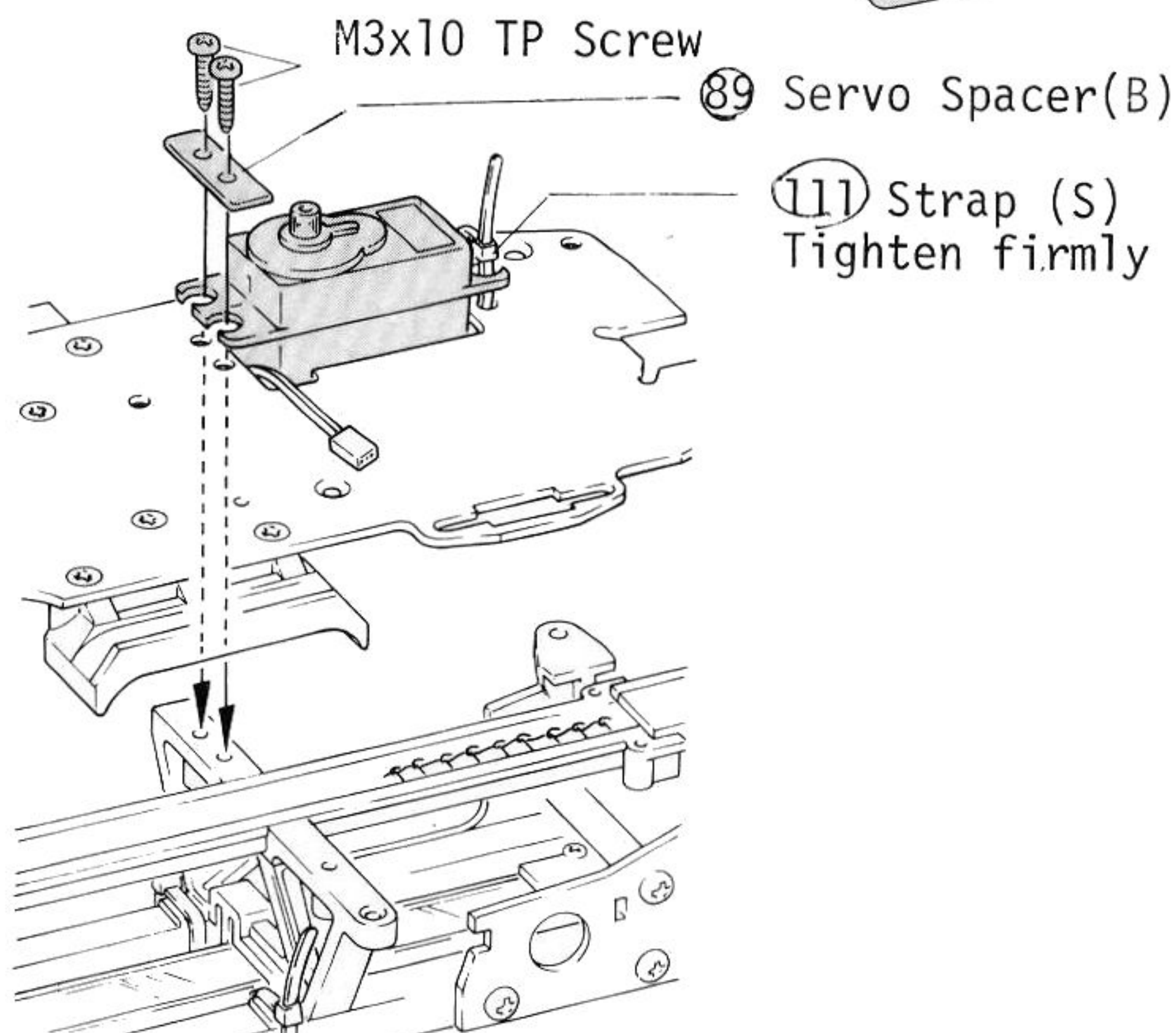
JR NES-505



4mm



Shave-off excess part with a file.



32 INSTALLATION OF CHAIN GUIDE(A)

M2 x 8 TP Screw

100 Chain Guide (D)

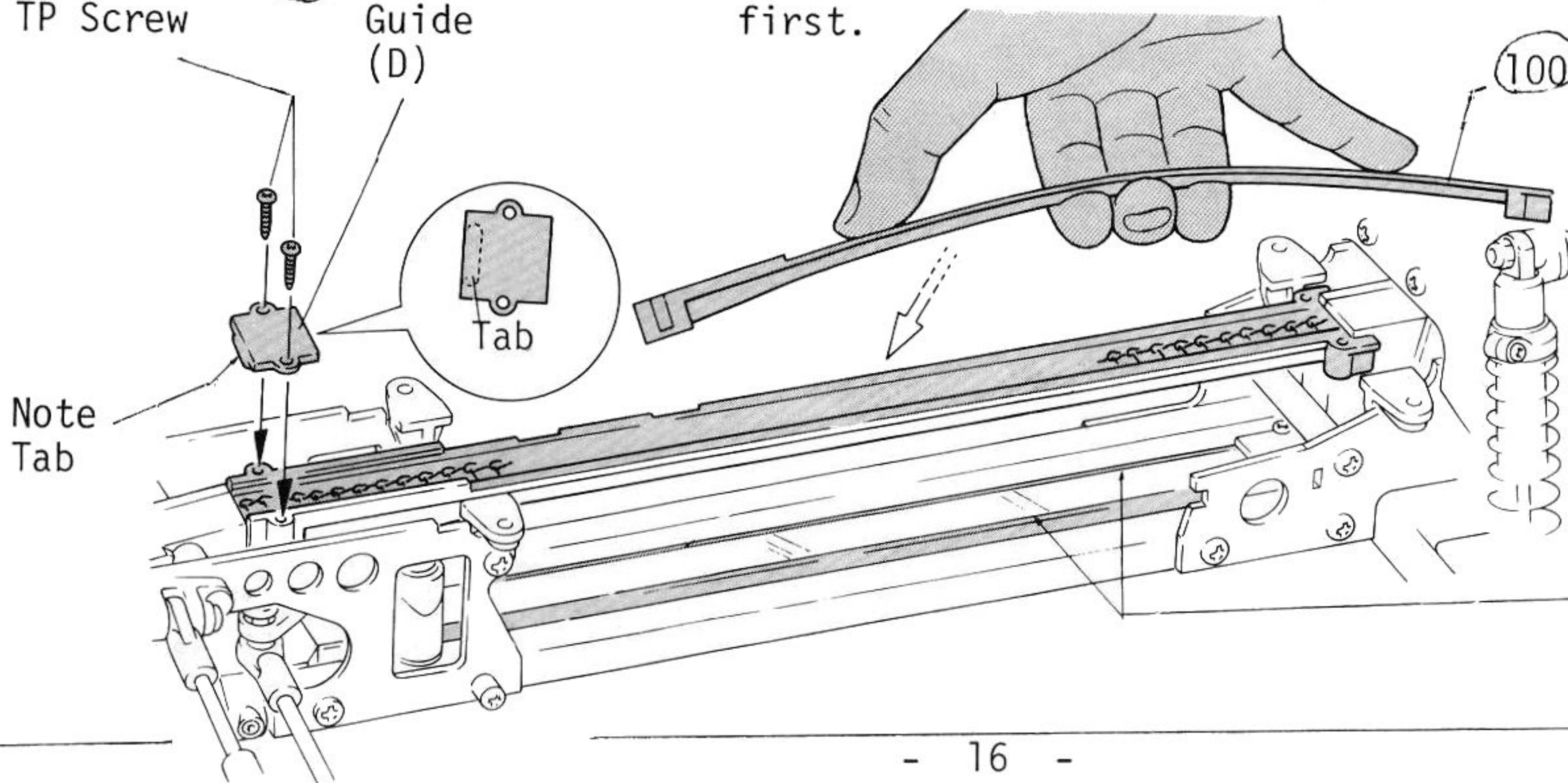
Bend the chain guide (A) as shown and install front end first.

100 Chain Guide (A)

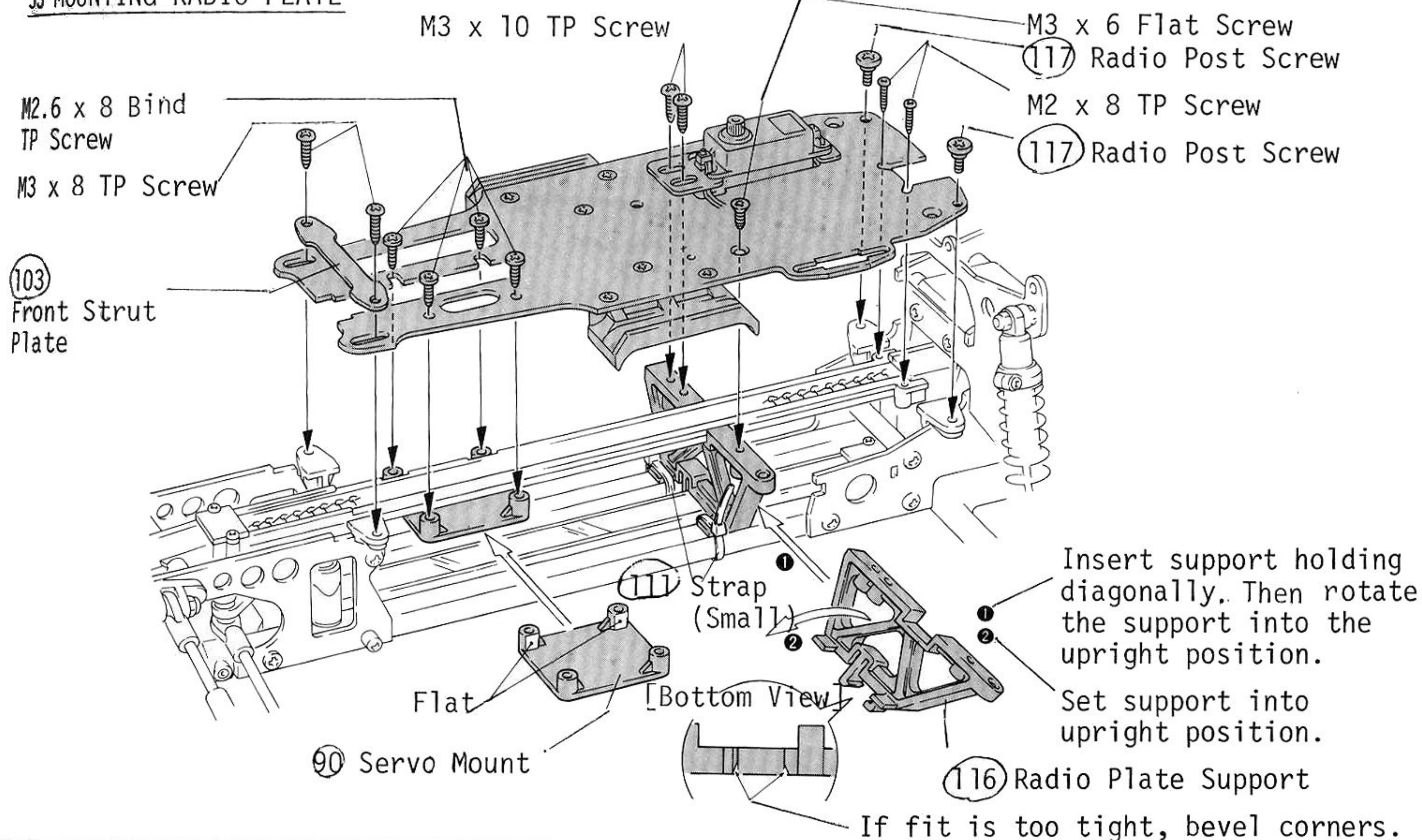
Note Tab

Tab

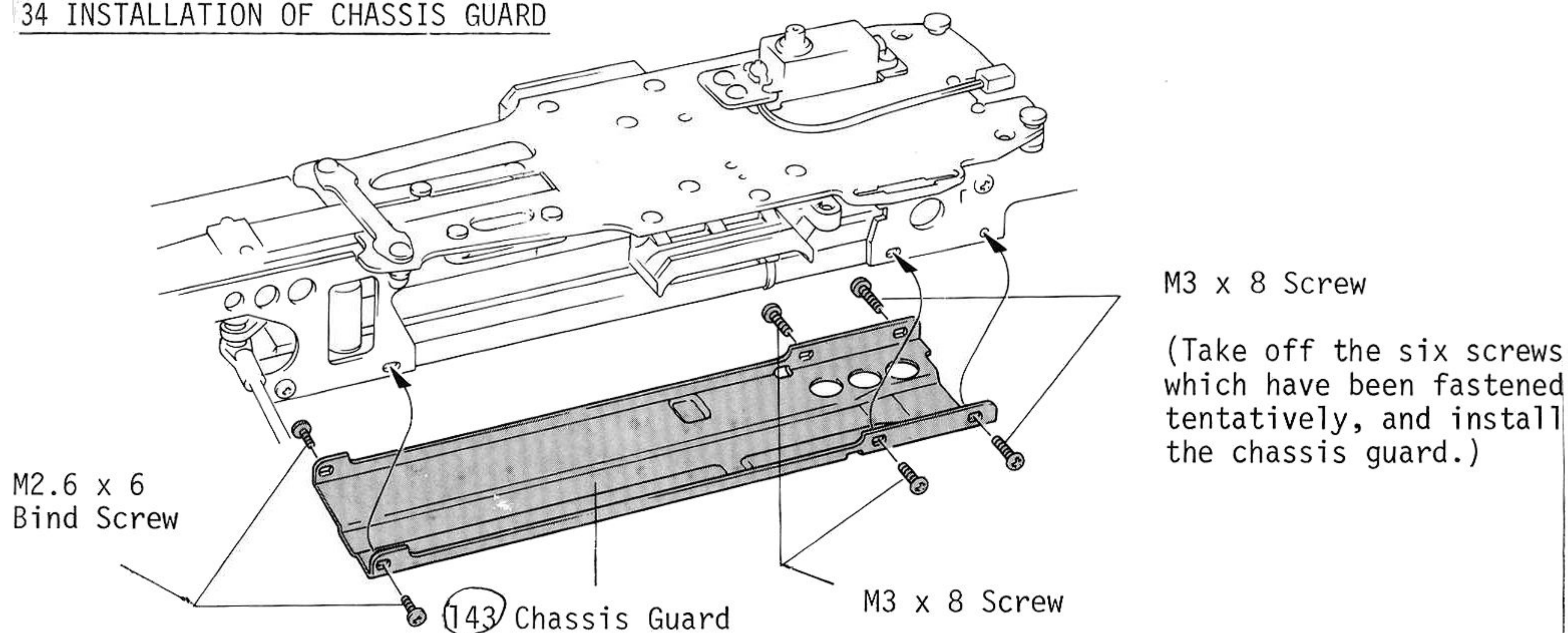
NOTE: To protect chain from contamination by dirt and dust, caulk between chain guide and cover with silicone caulk.



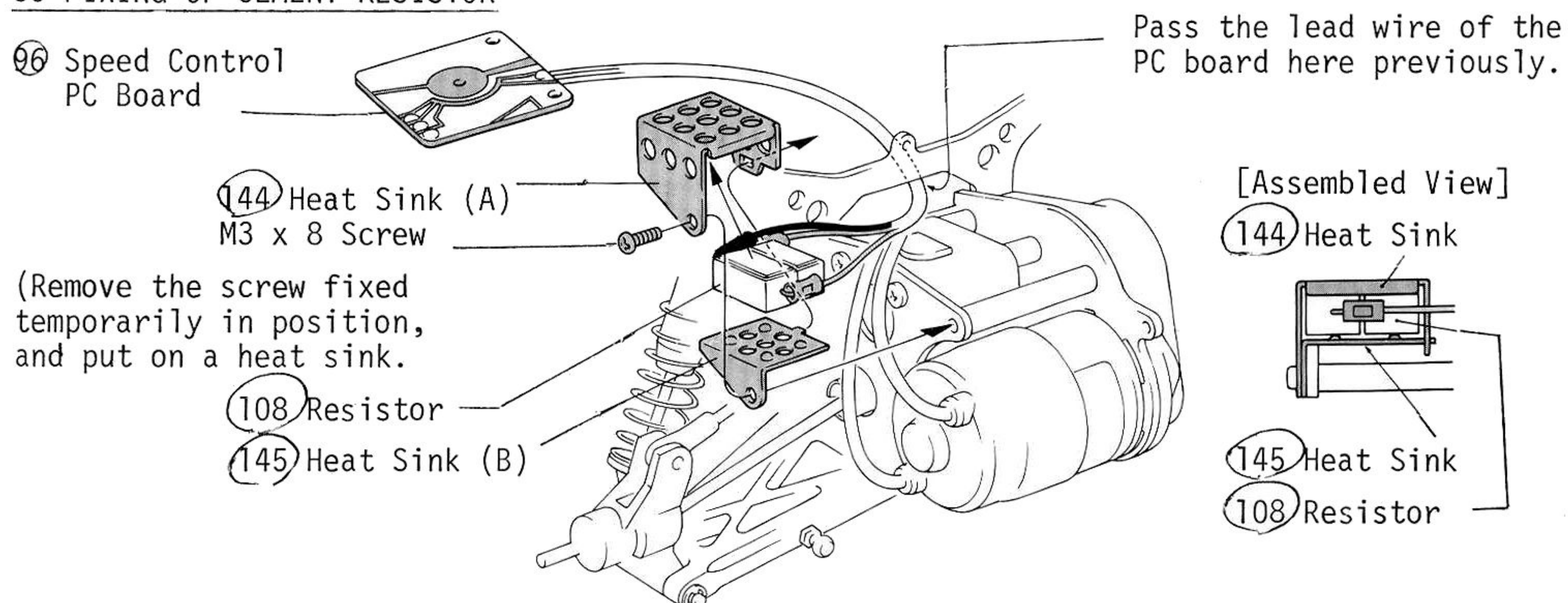
33 MOUNTING RADIO PLATE



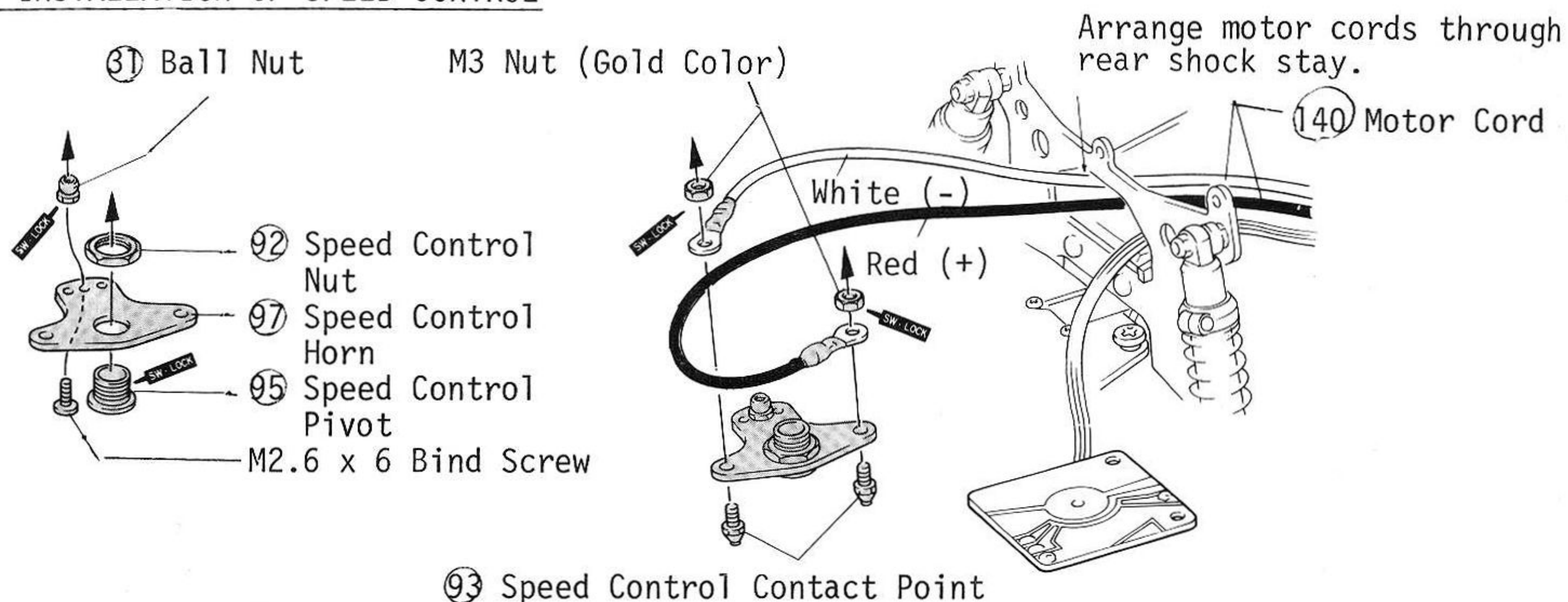
34 INSTALLATION OF CHASSIS GUARD



35 FIXING OF CEMENT RESISTOR



36 INSTALLATION OF SPEED CONTROL



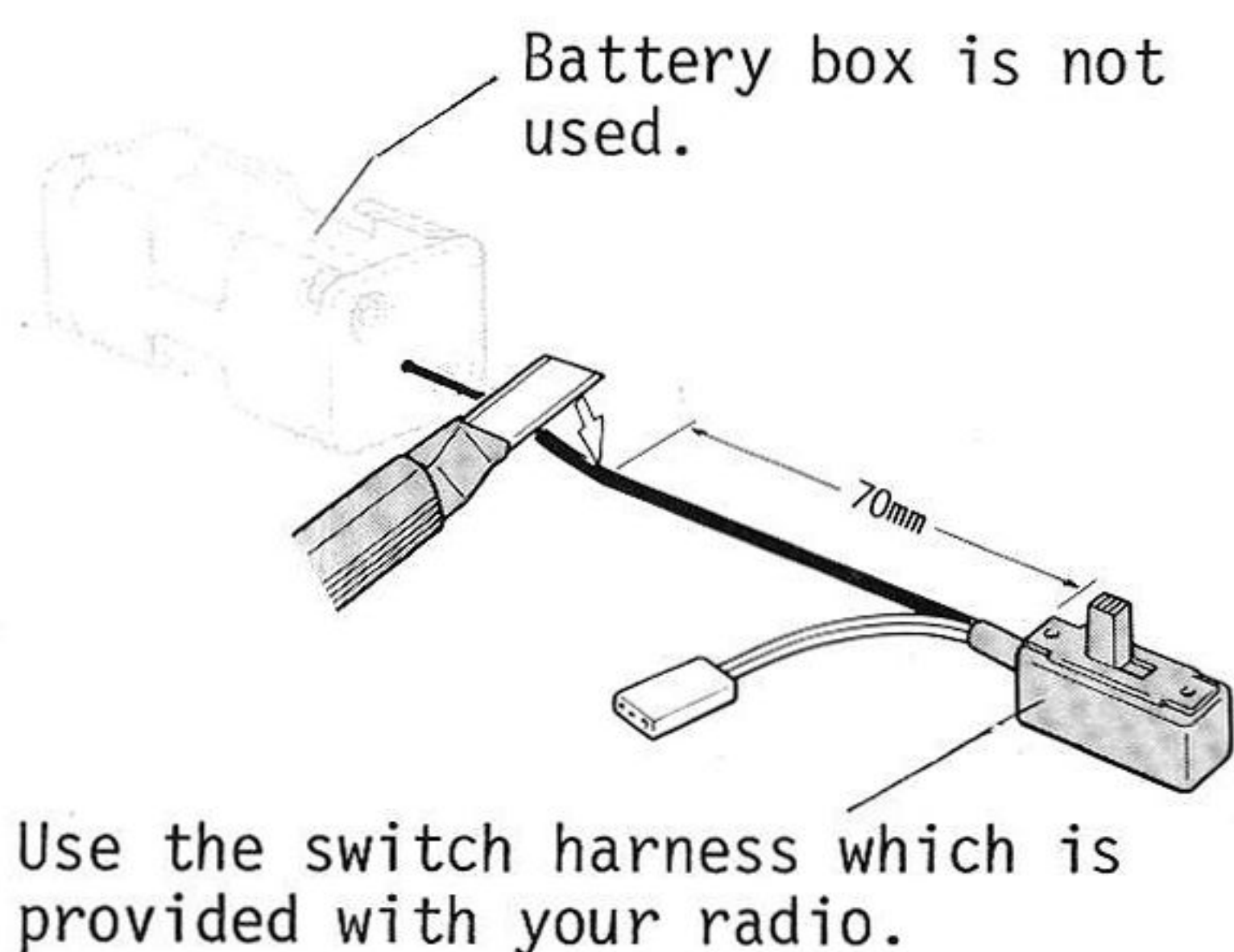
37 WIRING OF RECEIVER BATTERY

[For those who use a BEC type radio, please skip the step 37, and proceed to the next step.]

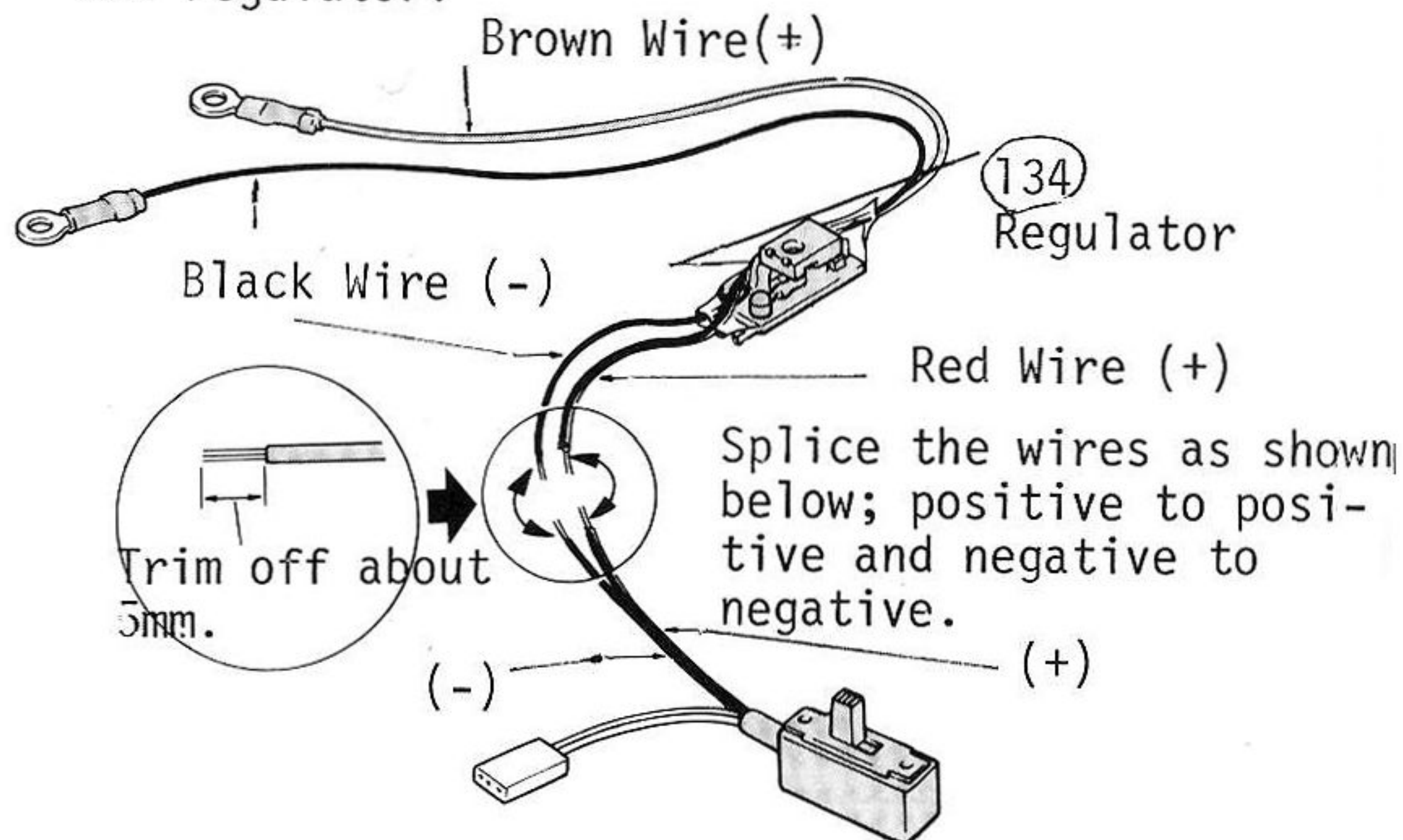
NOTE: The battery that powers the motor also powers the receiver. Use great care and do not allow polarity to be reversed. Also, do not allow 8.4V to flow directly into receiver.

The colors of the lead wires are different depending upon radio manufacturer. Most use red for positive (+) and black for negative (-). The exception being Cox and Airtronics (Sanwa). Their (+) lead has a white stripe and the middle lead is (-).

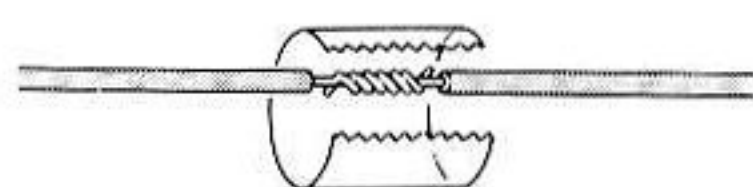
1. Cut off wires from radio box as shown.



2. Connect the leads from the R/C unit switch and the regulator.

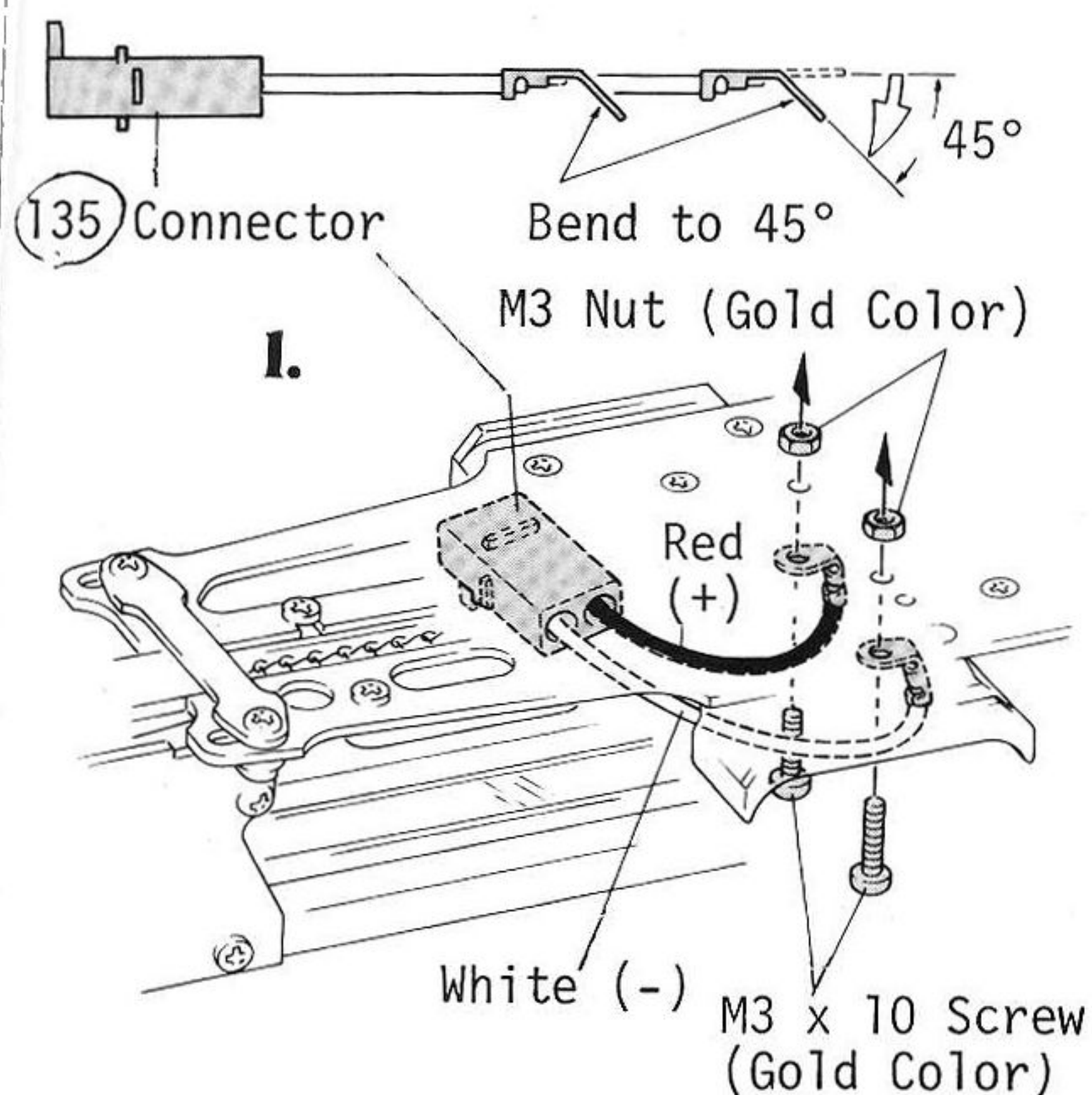


- ① Join wires by twisting together.

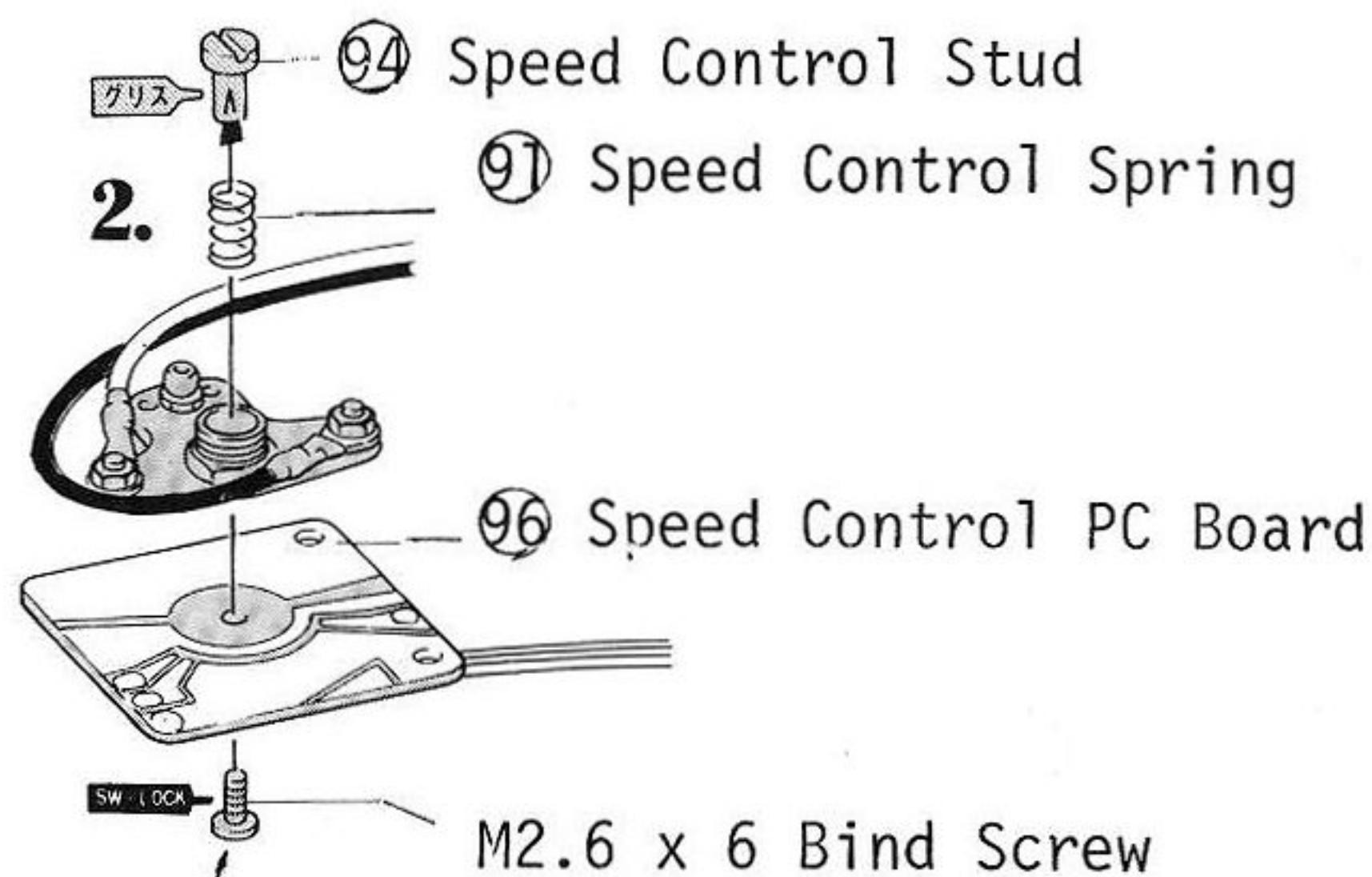


- ② Insulate the connection points with vinyl tape to prevent a short-circuit.

*For ensuring the job, solder the spliced leads.

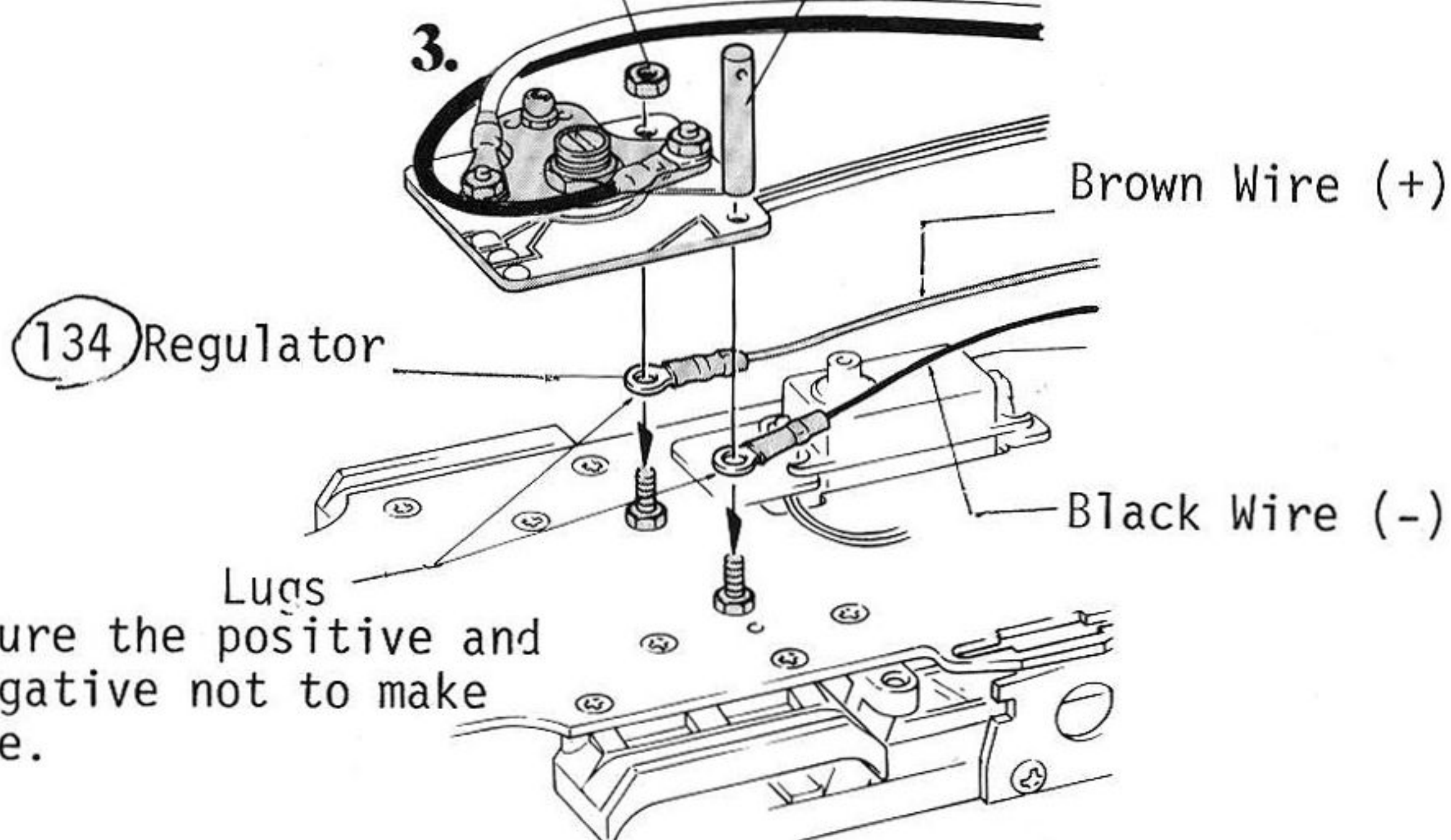


NOTE: Fix the connector terminals under the radio plate.



Cement this screw to the PC board with cyanoacrylate adhesive or "Locktite" so that it won't turn idle.

M3 Nut (Gold Color) 98 Driver Post



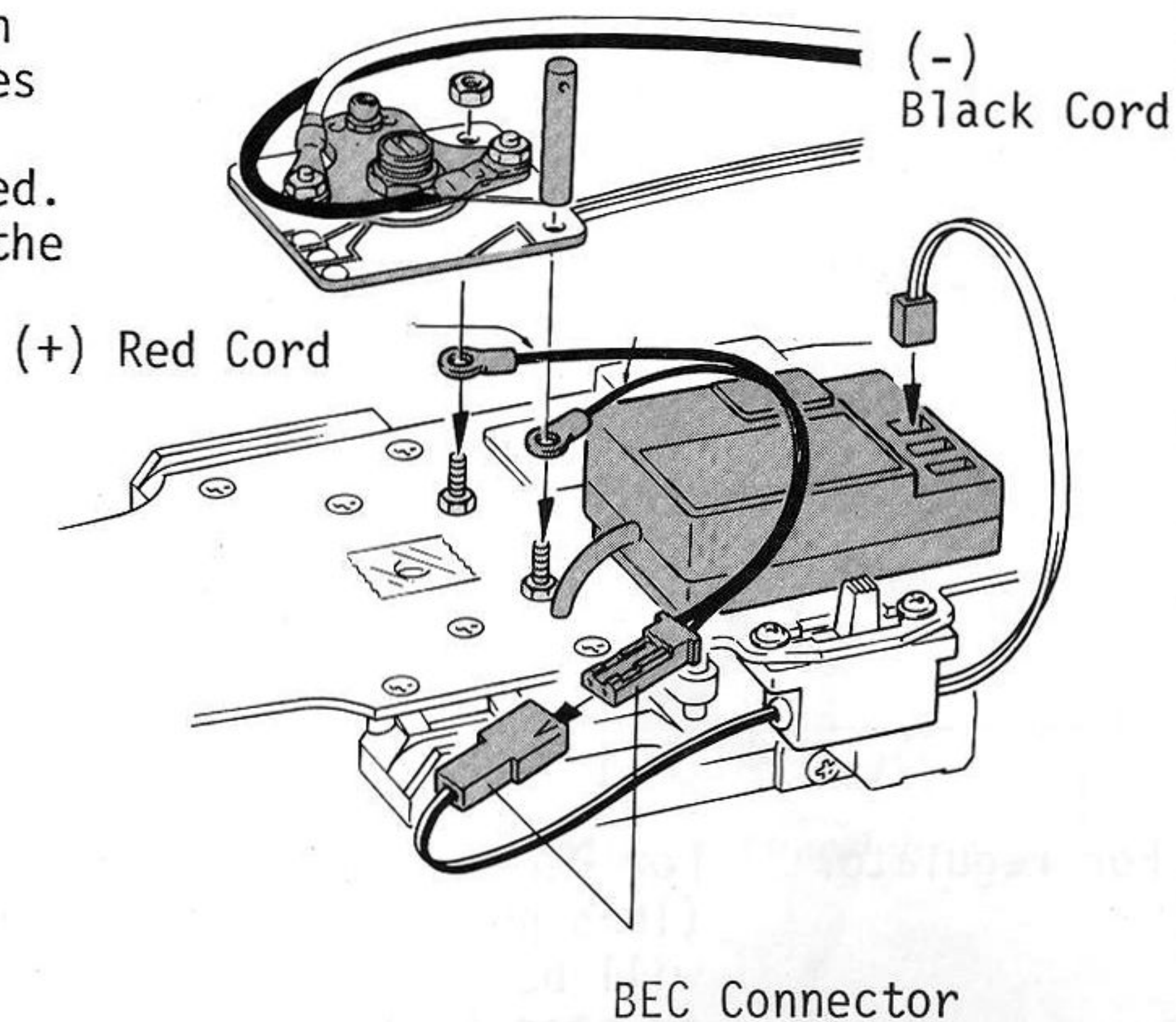
Make sure the positive and the negative not to make mistake.

39 WHEN THE BEC RADIO IS EMPLOYED



The radio contained in the box with this logo is the BEC type. As shown in step 37 on page 18, the radio does not use the regulator (130), also the wiring for the switch is not required. When using this type of radio, fix the BEC connector as illustrated below.

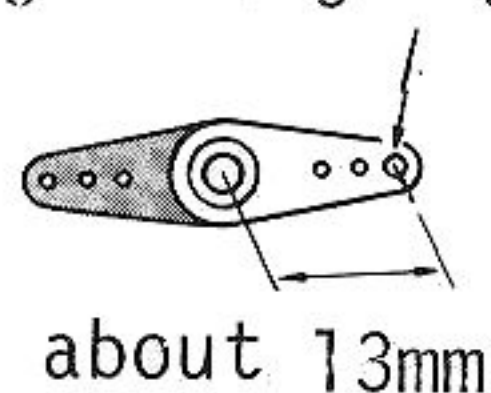
NOTE: When arranging the BEC connector, do not mistake the positive (red cord) with the negative (black cord). The improper polarity may damage the radio.



40 SPEED CONTROL LINKAGE

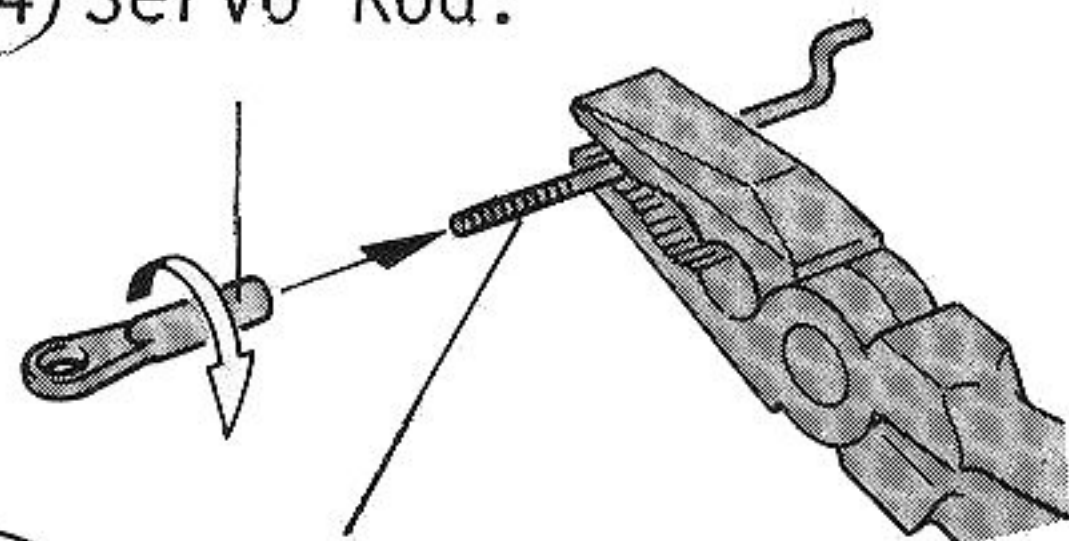
Trim the shaded portion from your servo horn.

Hole may have to be enlarged slightly.



about 13mm

Install ball end onto (104) Servo Rod.

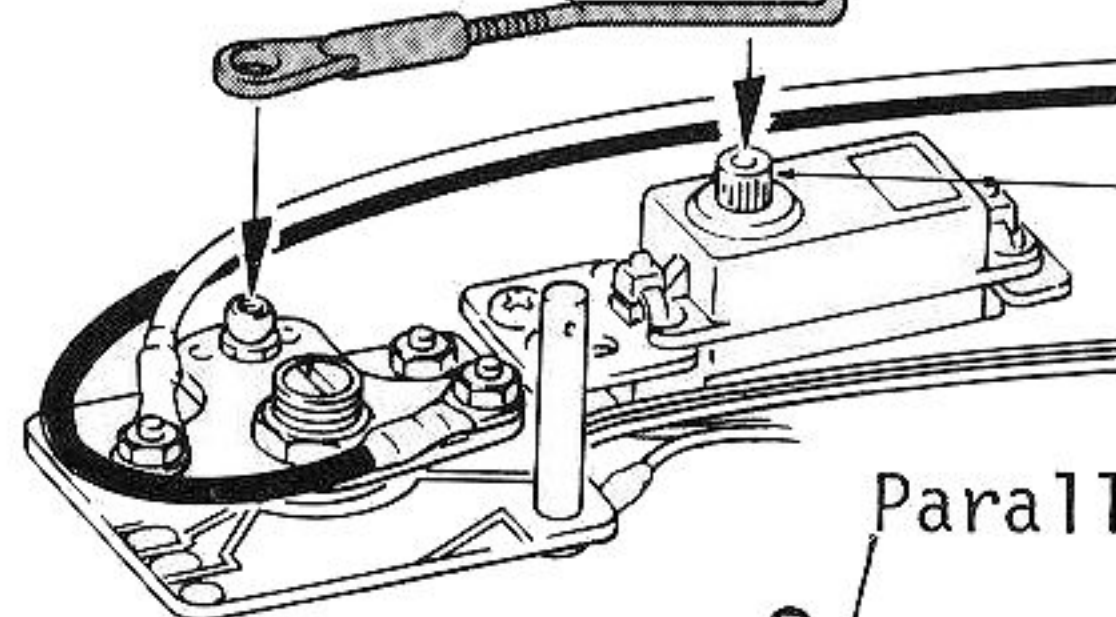


(104) Servo Rod

Servo Horn

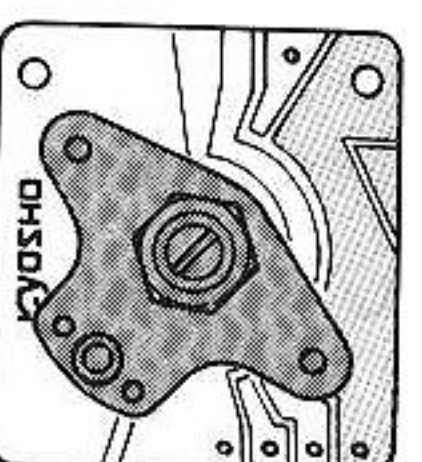
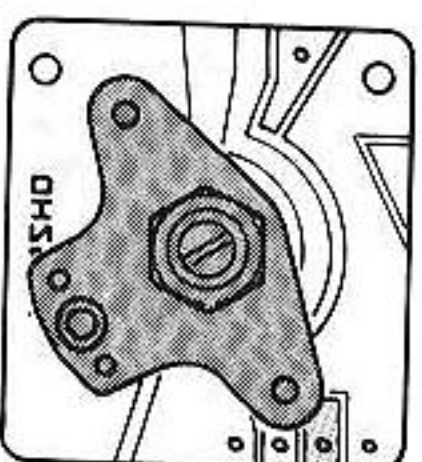
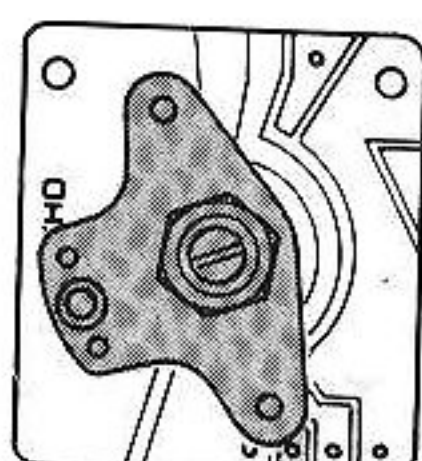
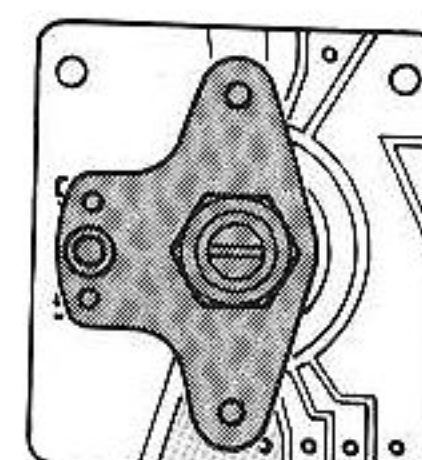
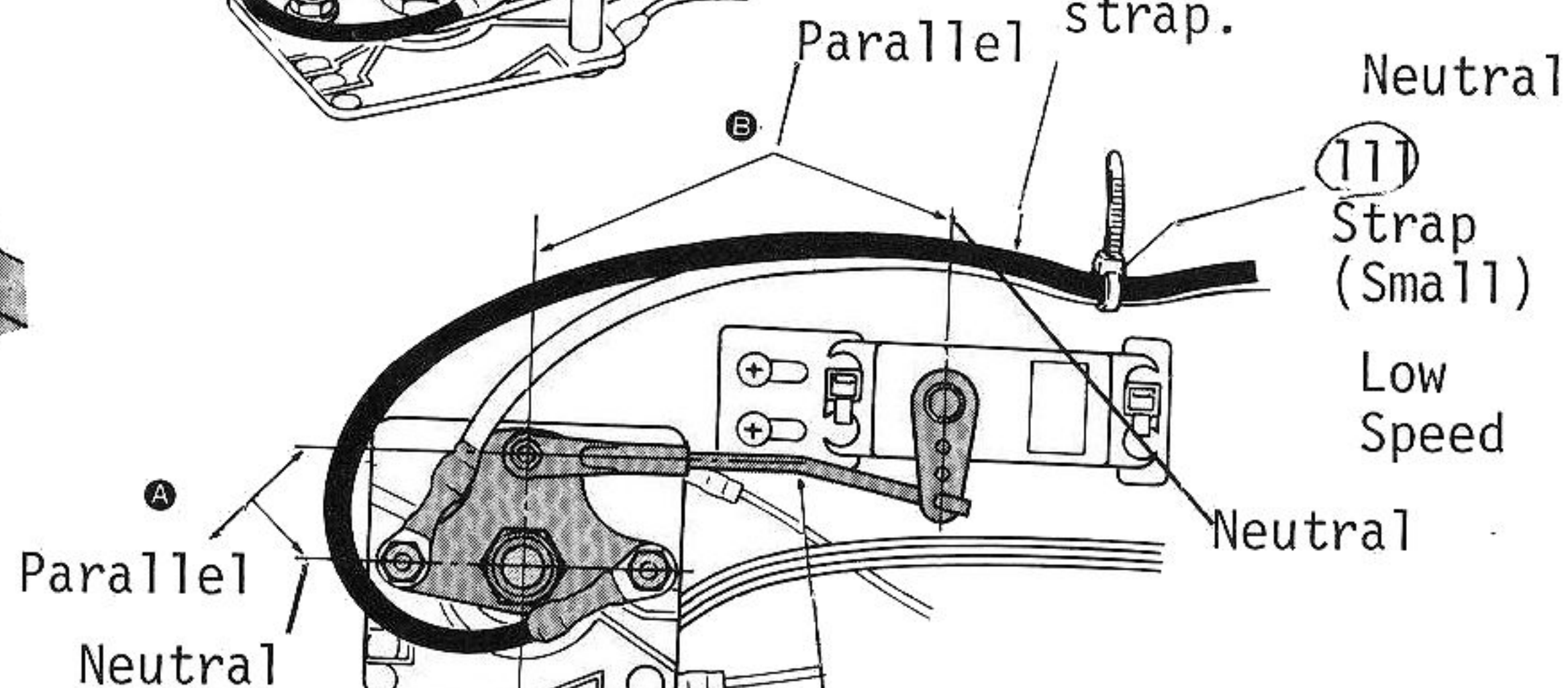
(104) Servo Rod

Use the screw included with your radio.



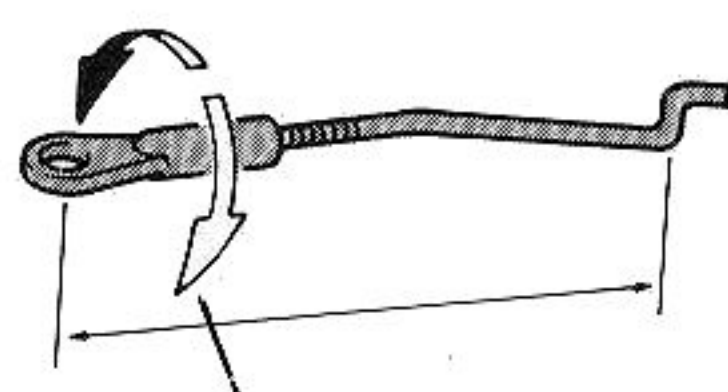
Keep servo in neutral position.

Arrange cords and tie with strap.



Achieve the parallel adjustment indicated by turning ball end.

Turn the ball end.
Getting longer



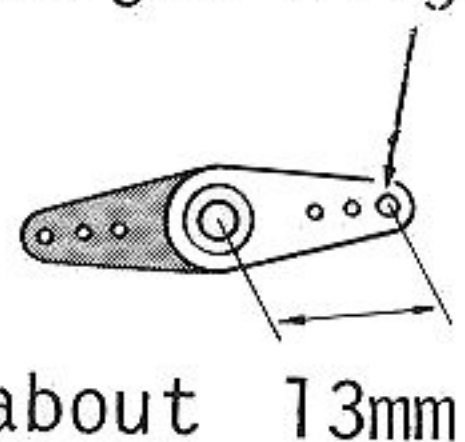
Reverse

It become shorter.

41 INSTALLATION OF STEERING ROD

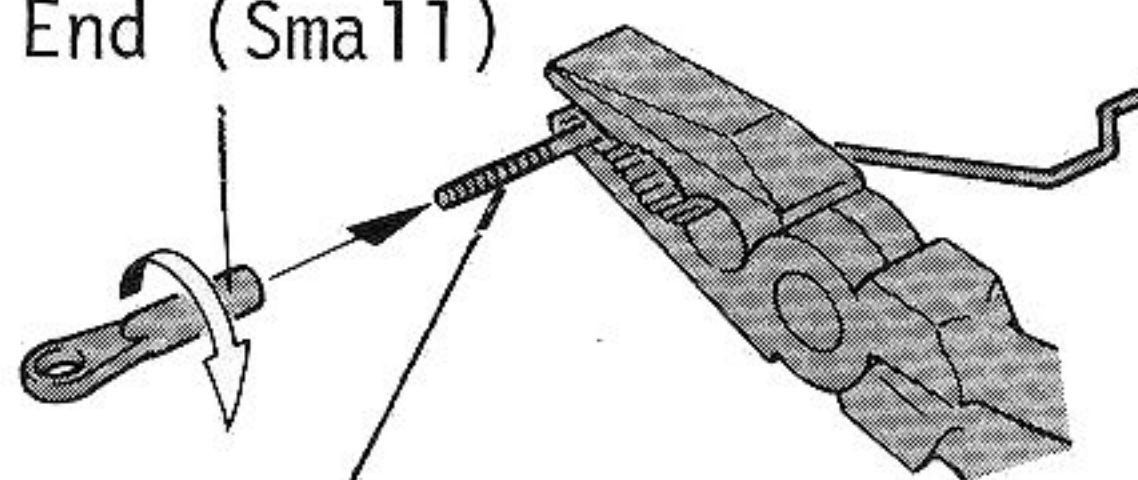
Trim the shaded portion from your servo horn.

Hole may have to be enlarged slightly.



about 13mm

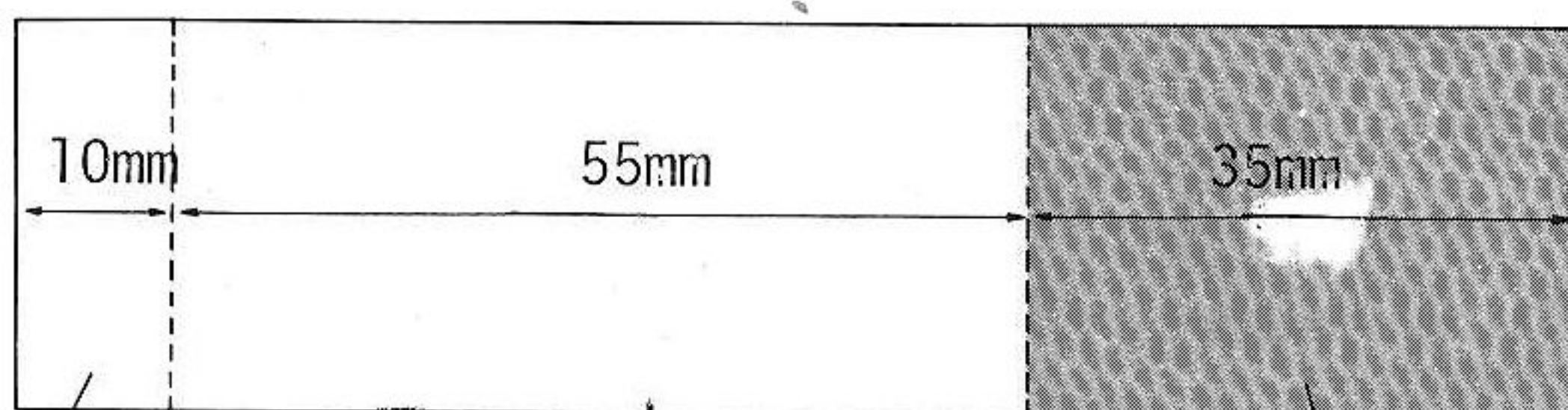
(37) Ball End (Small)



(113) Steering Rod

[Cutting Double-Sided Tape]

(106) Double Sided Tape (Actual Size)

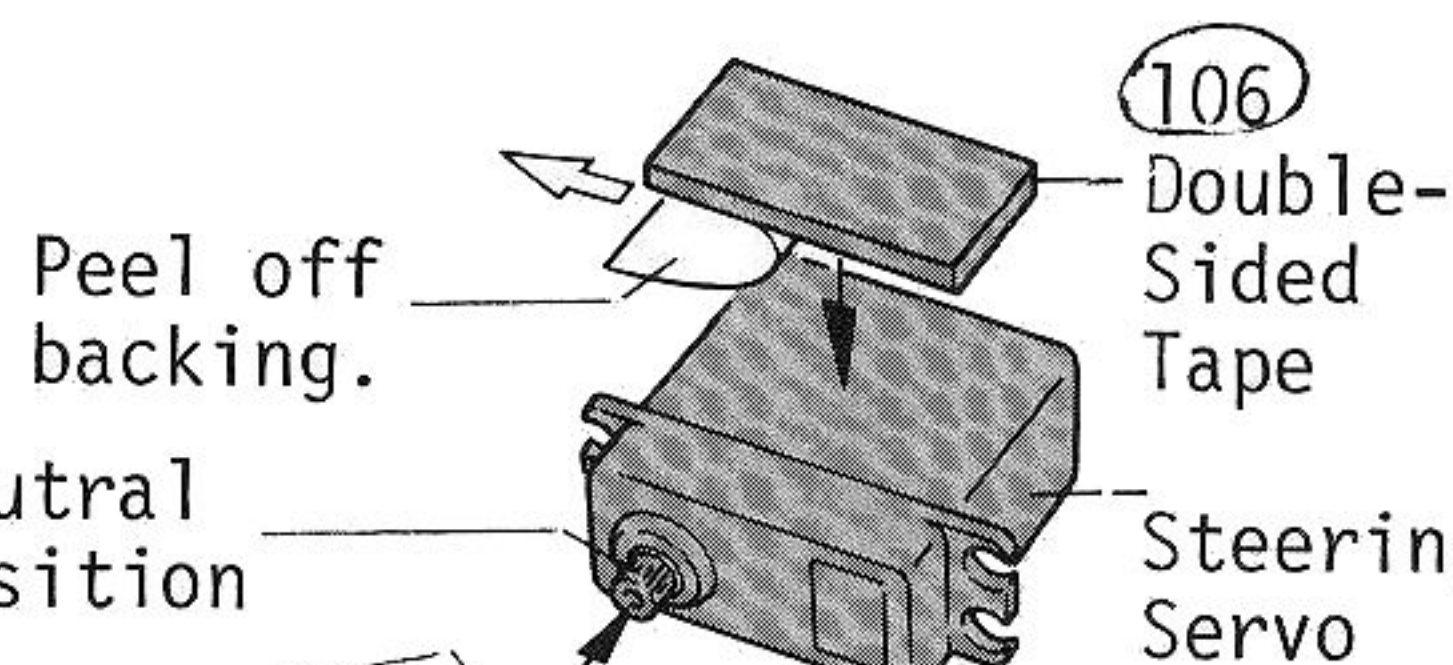


For regulator

For Receiver
(This portion
will be used
in step 43.)

For Steering Servo

[Affixing Double-Sided Tape]

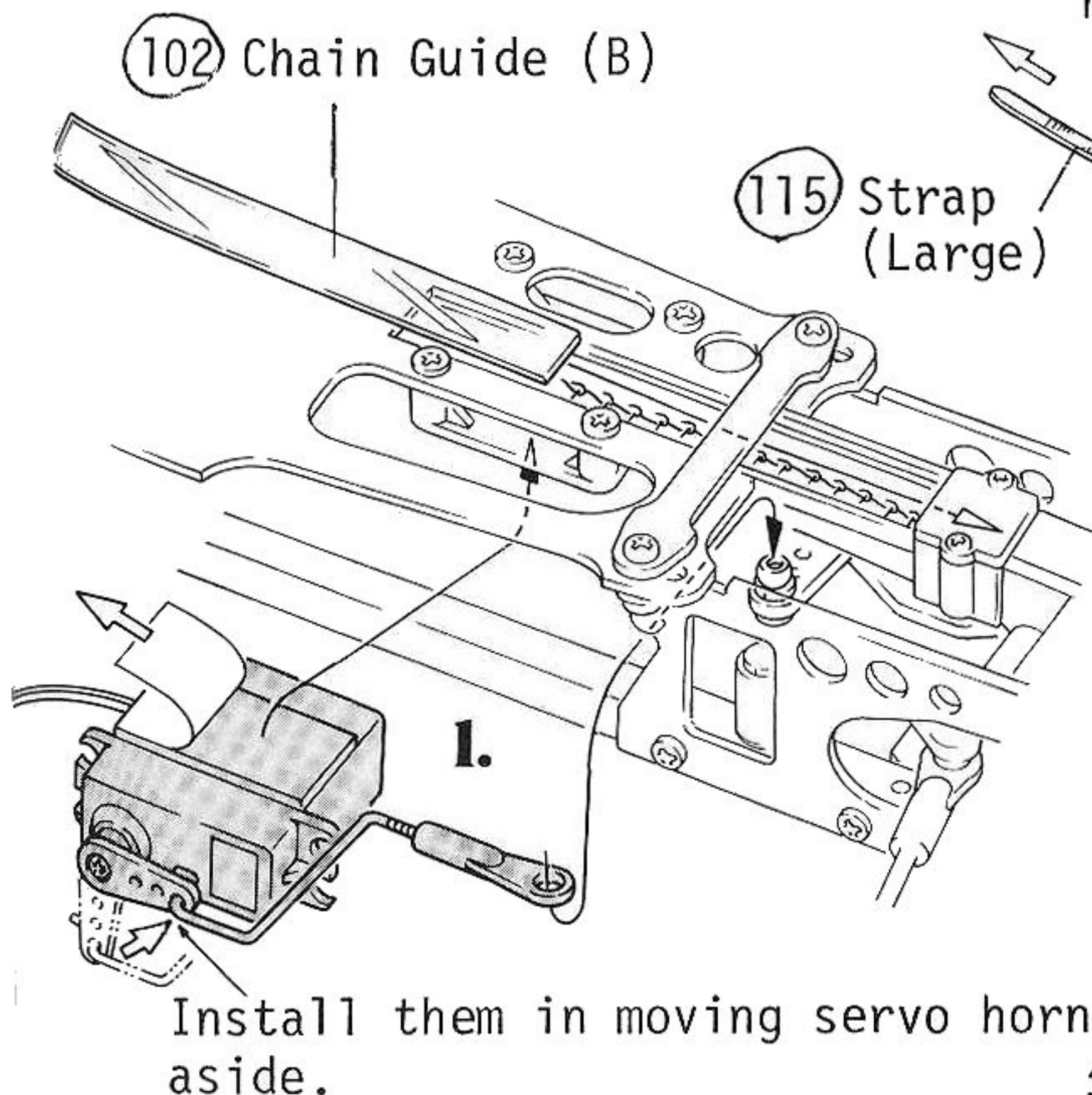


Use the screw included with your radio.

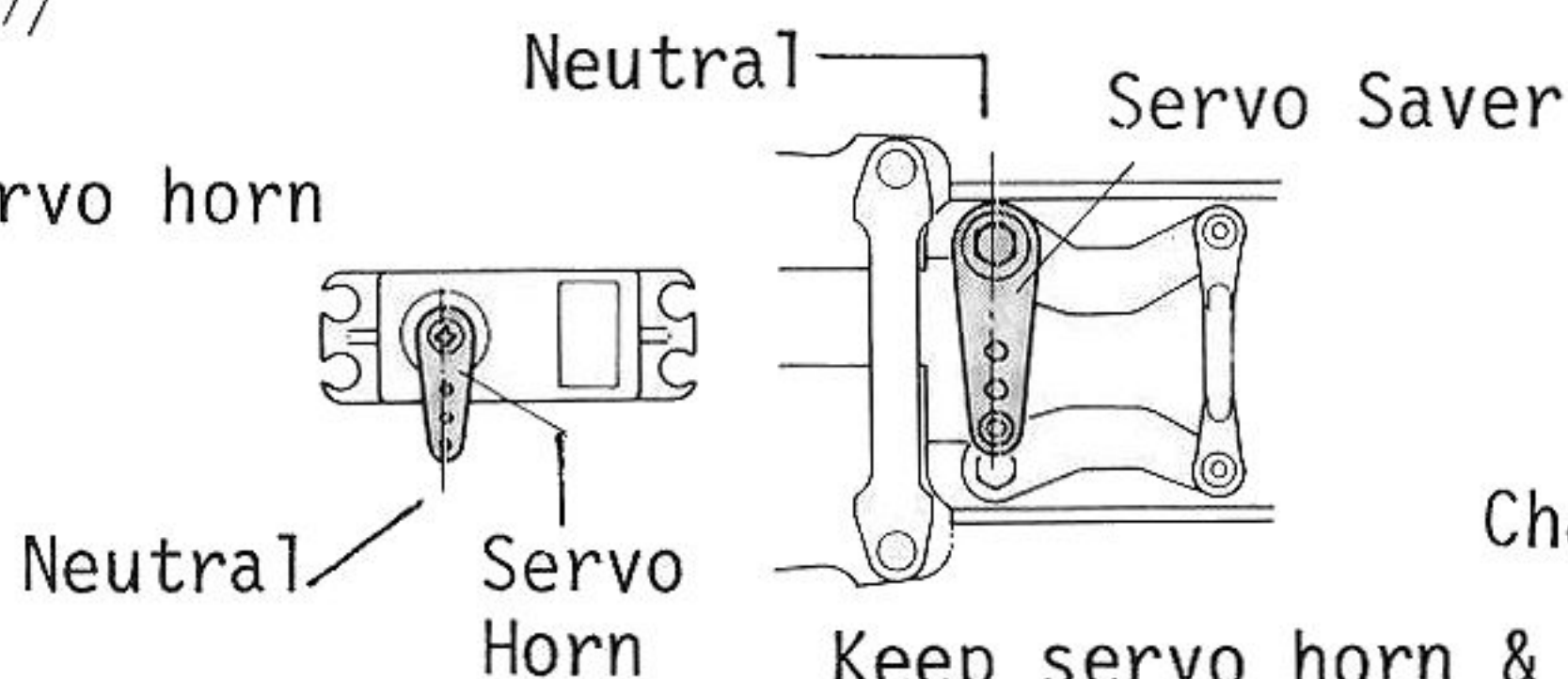
(113) Steering Rod

42 STEERING CONTROL LINKAGE

- 2.** After installation, fasten servo with nylon strap (L).

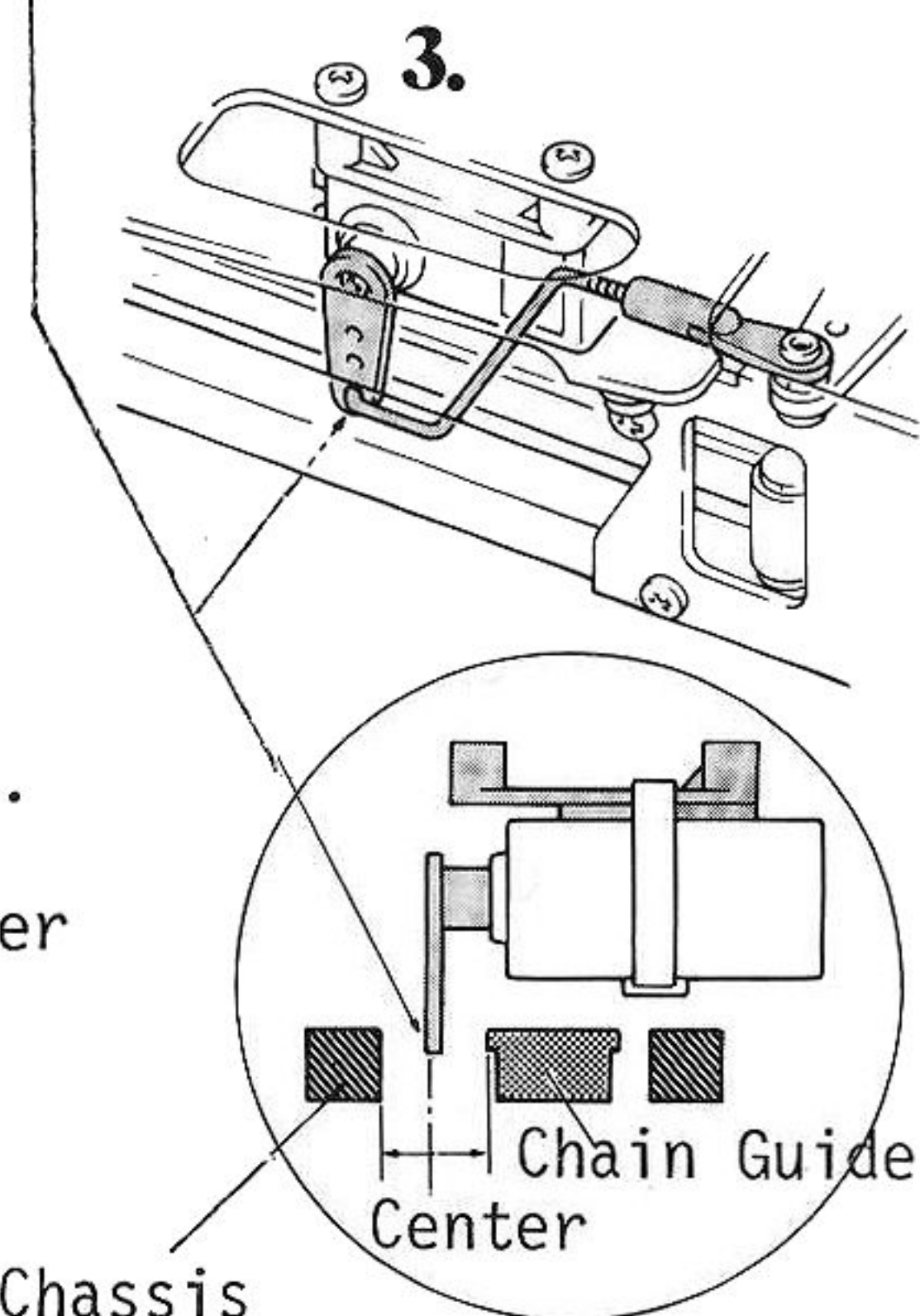


NOTE: For steering, use a reverse servo, your radio may employ servo reversing, or you will need to reverse the position of the gimbal stick on your transmitter.



Keep servo horn & servo saver in neutral when you install steering rod.

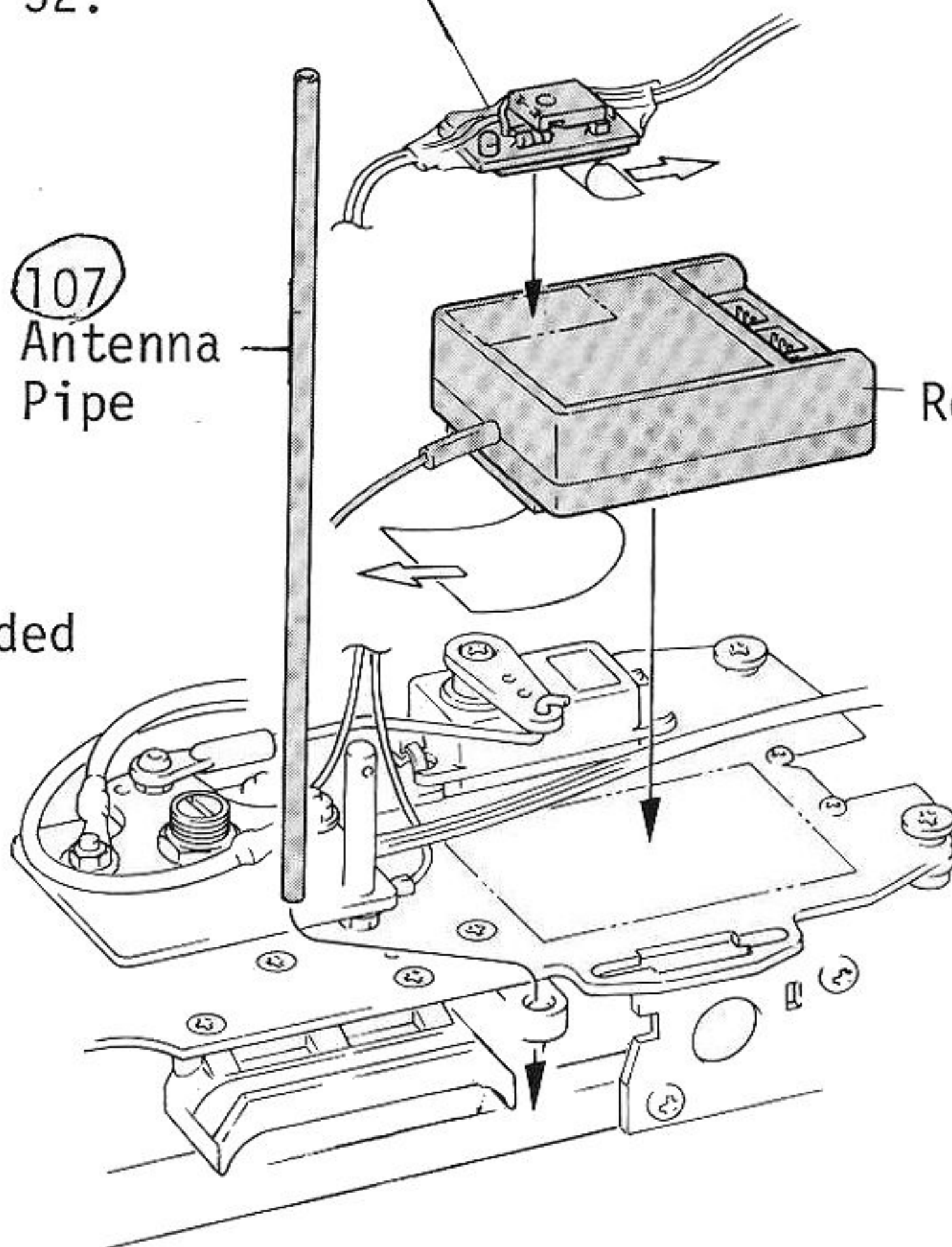
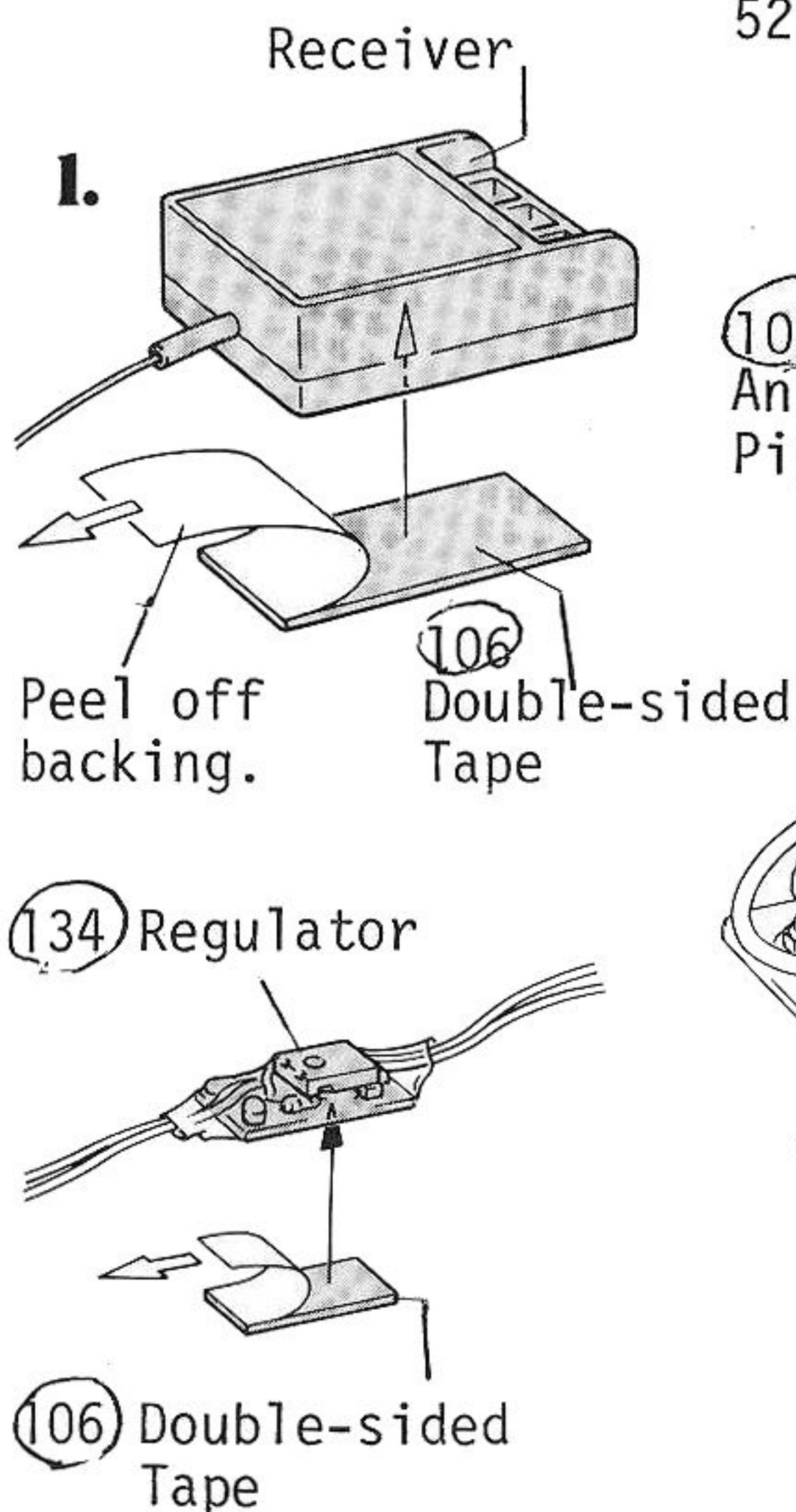
Fix the servo horn in such a way that it will come in the center between the chassis and the chain guide.



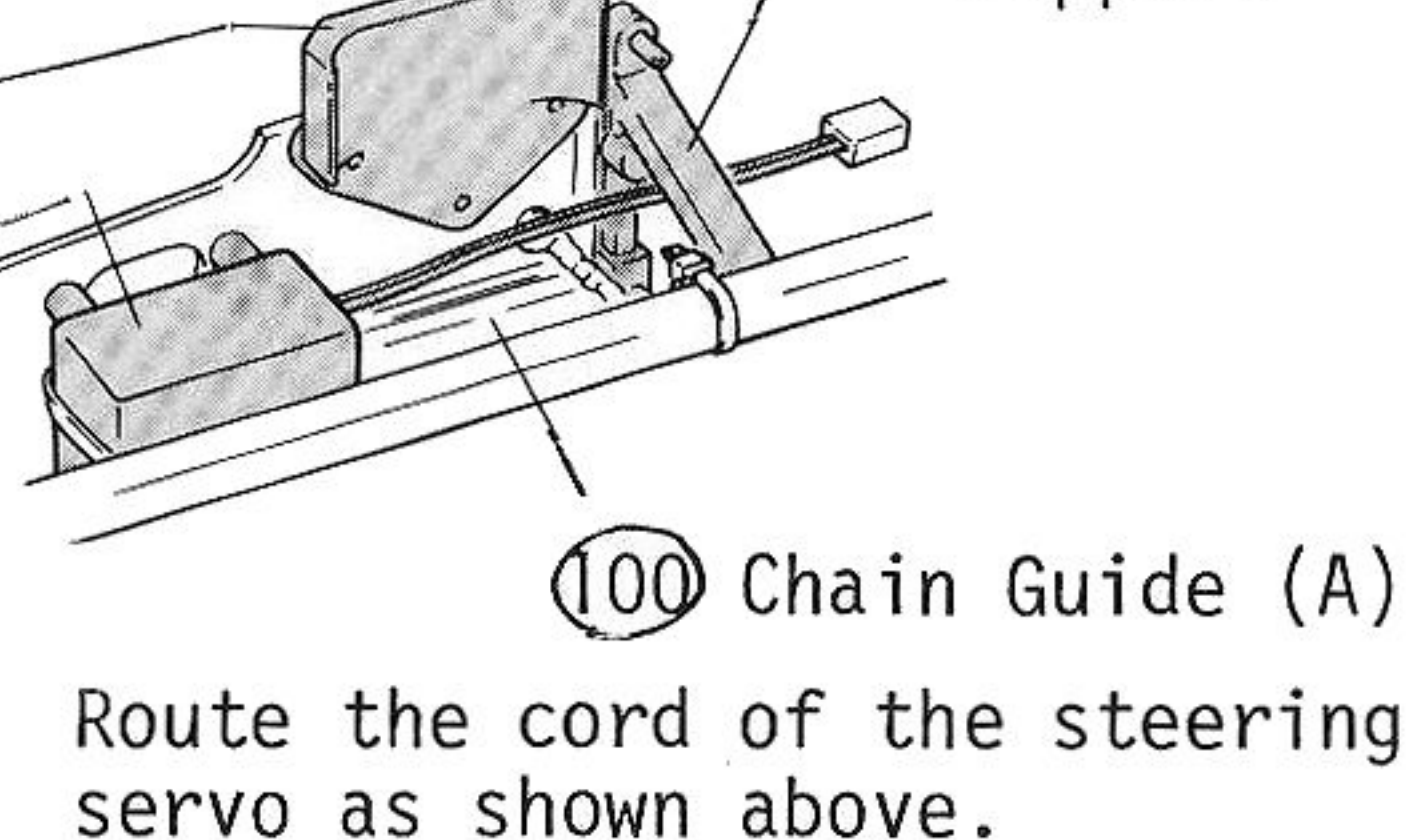
43 INSTALLATION OF RECEIVER AND ANTENNA

Put the pieces of double-sided tape, which was cut in step 41, under the receiver and the regulator.

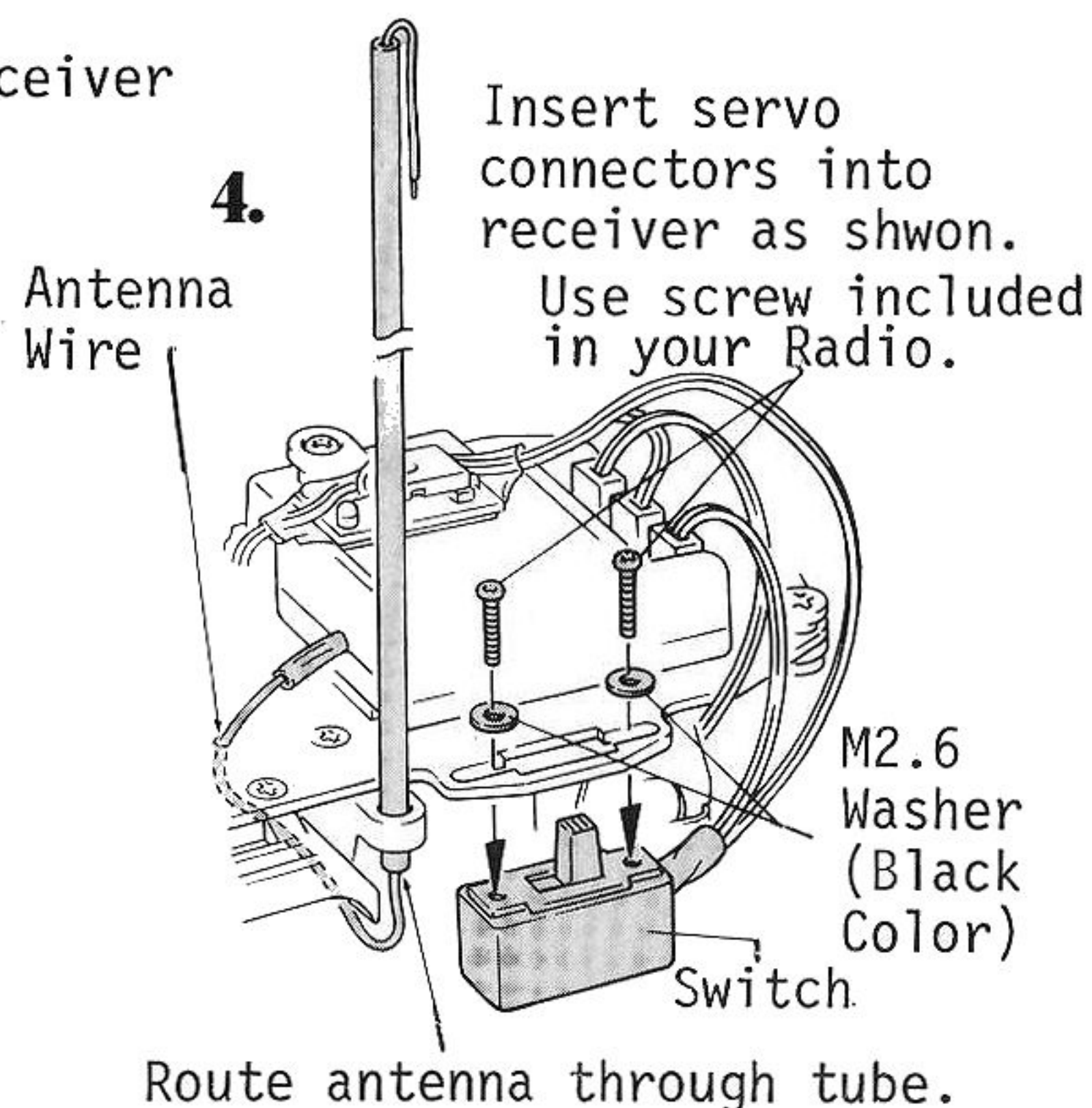
- 2.** Fix the regulator in such a position that it will be housed in the head of driver doll, which will be worked later in step 52.



- 3.** [Bottom View] Radio Plate Support

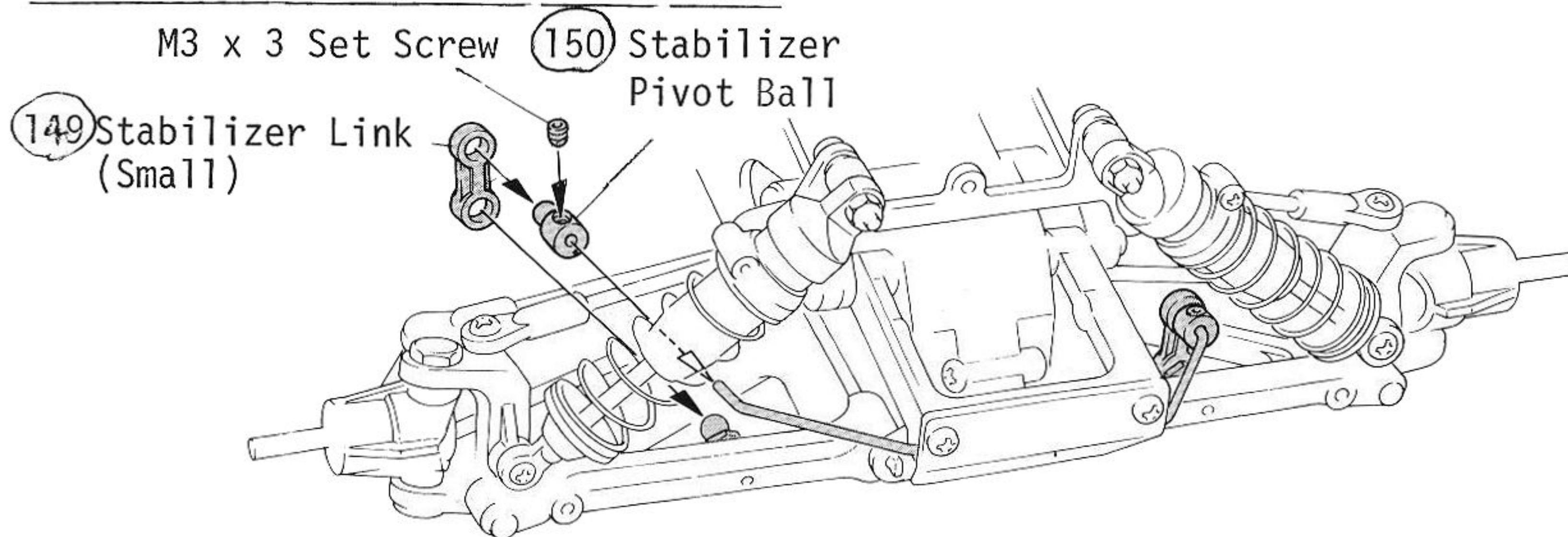


Route the cord of the steering servo as shown above.

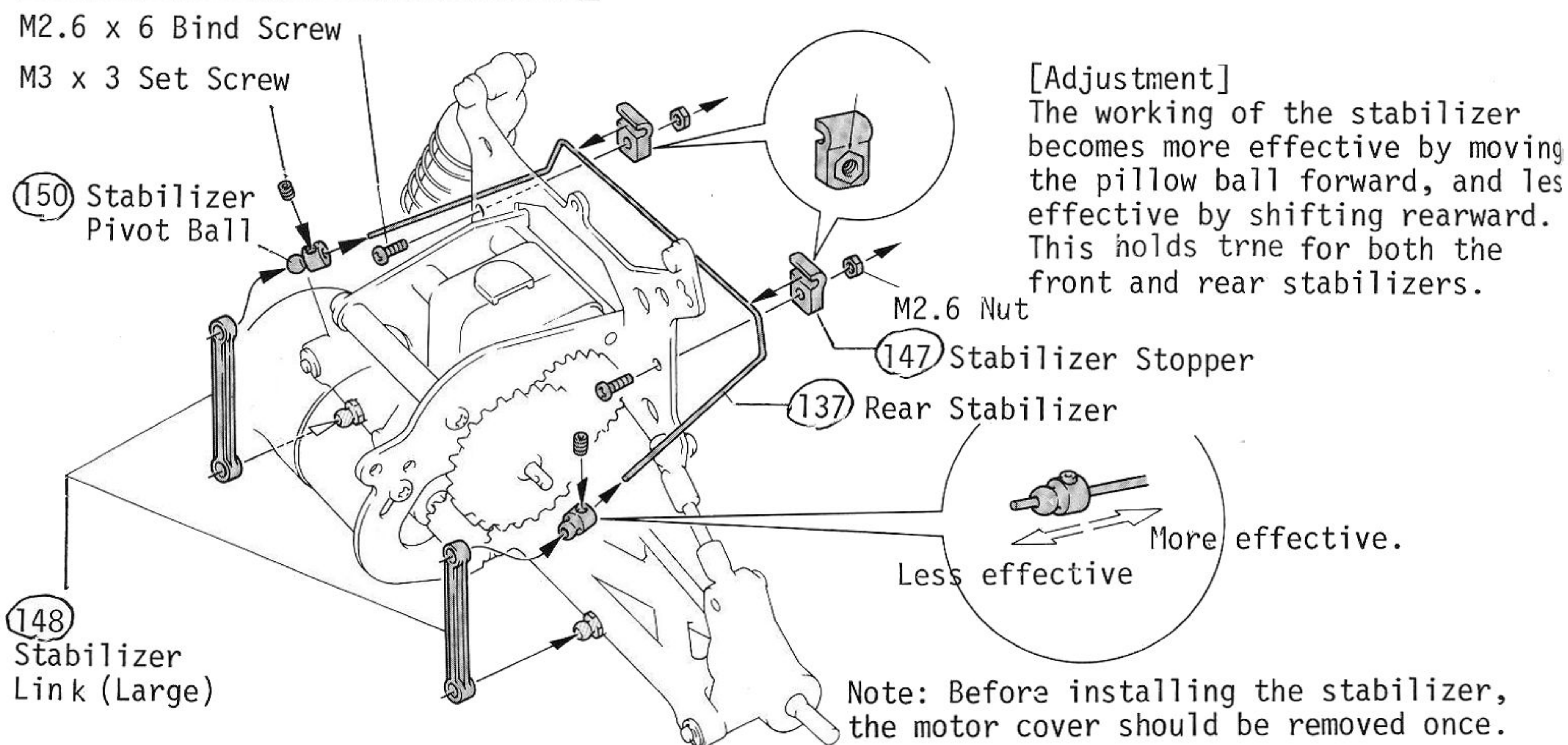


Route antenna through tube.

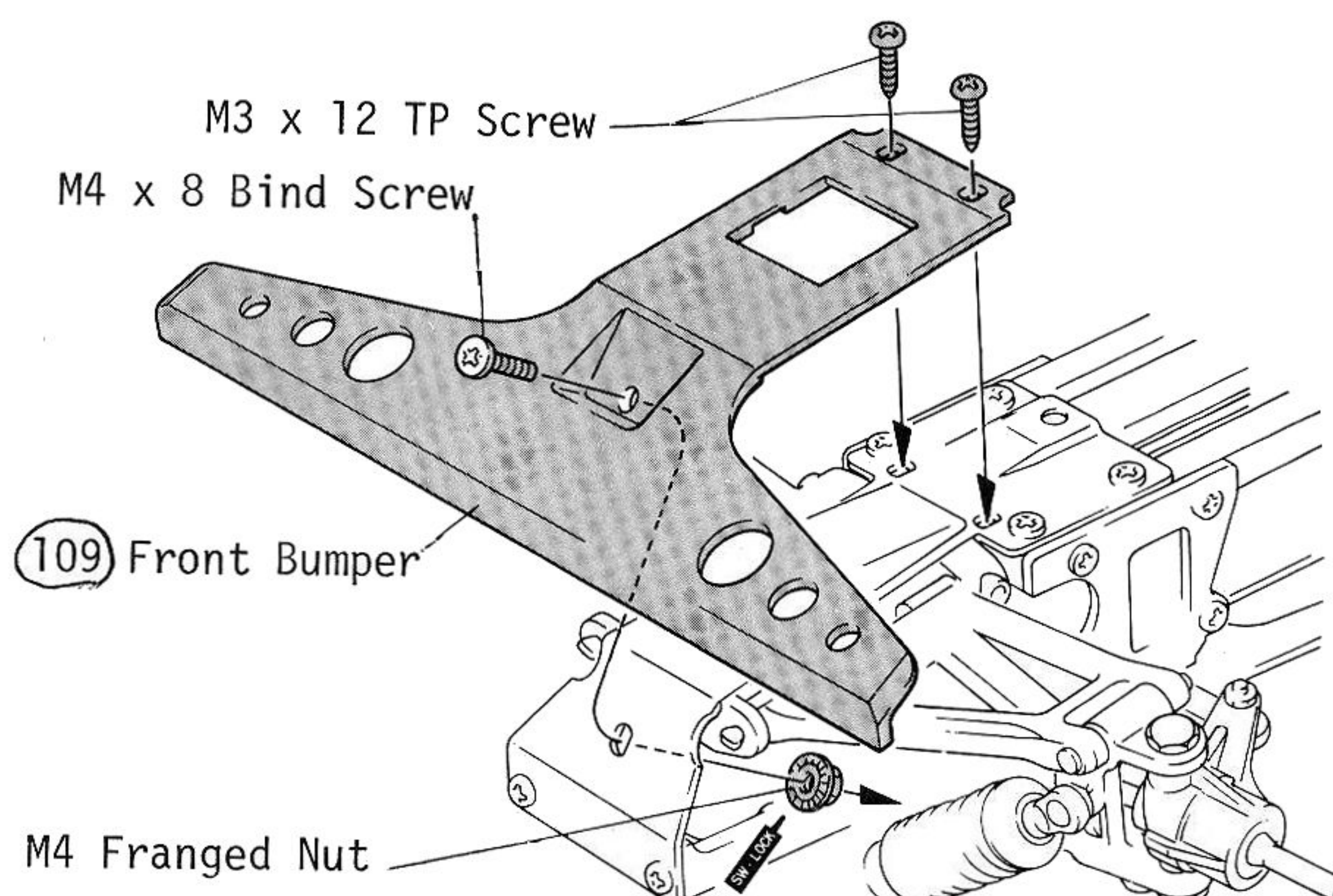
44 INSTALLATION OF FRONT STABILIZER



45 INSTALLATION OF REAR STABILIZER

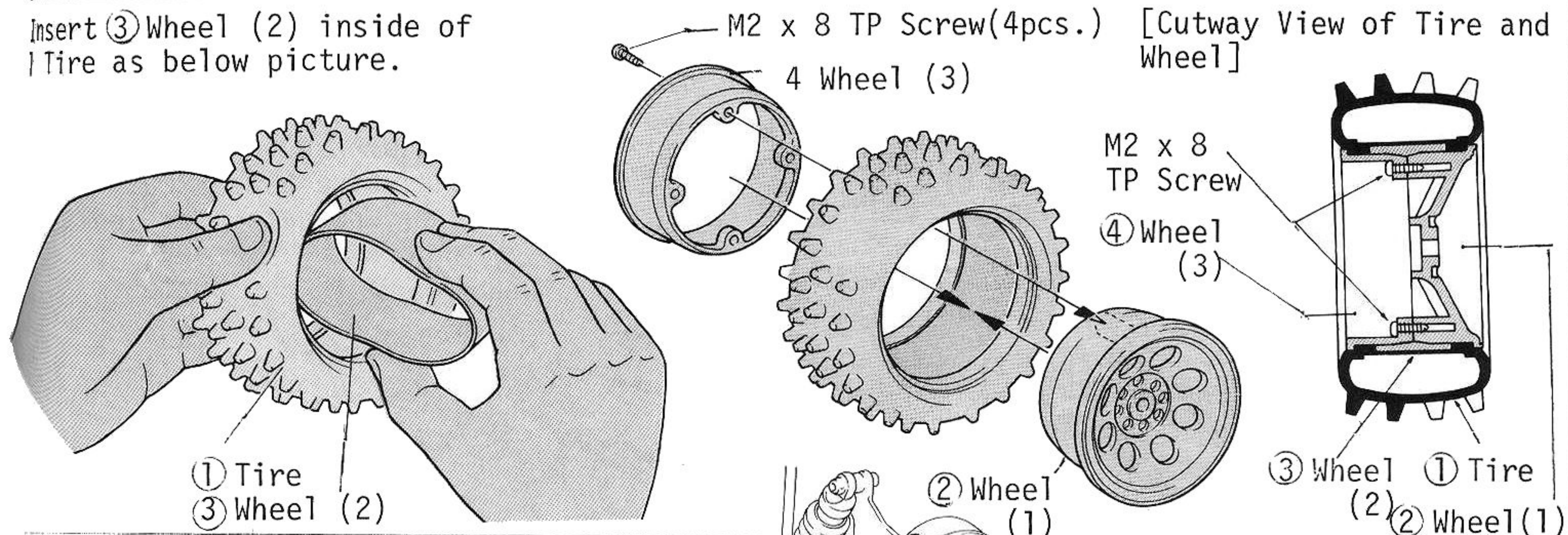


46 INSTALLATION OF BUMPER

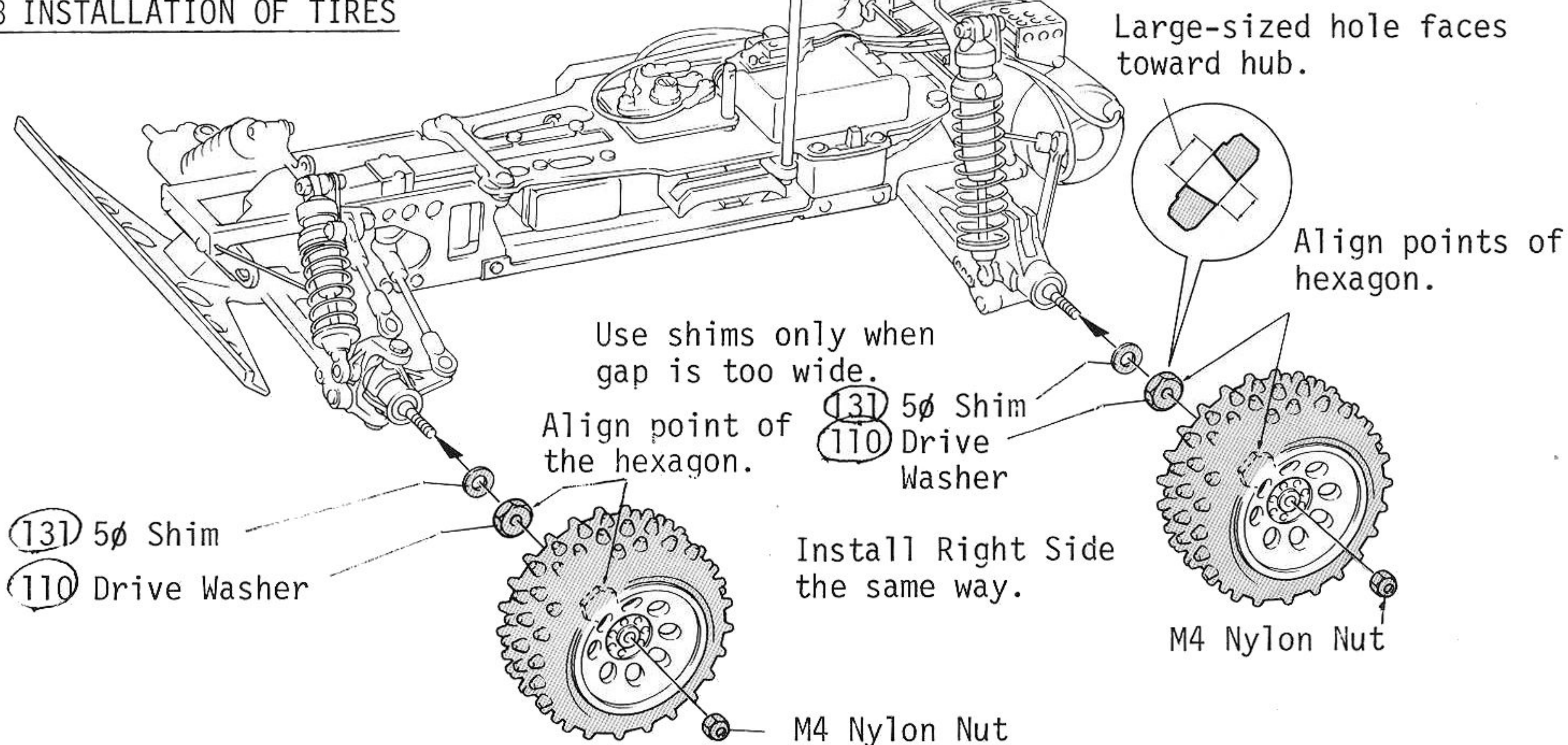


47 MOUNTING THE WHEEL

Insert (3) Wheel (2) inside of (1) Tire as below picture.

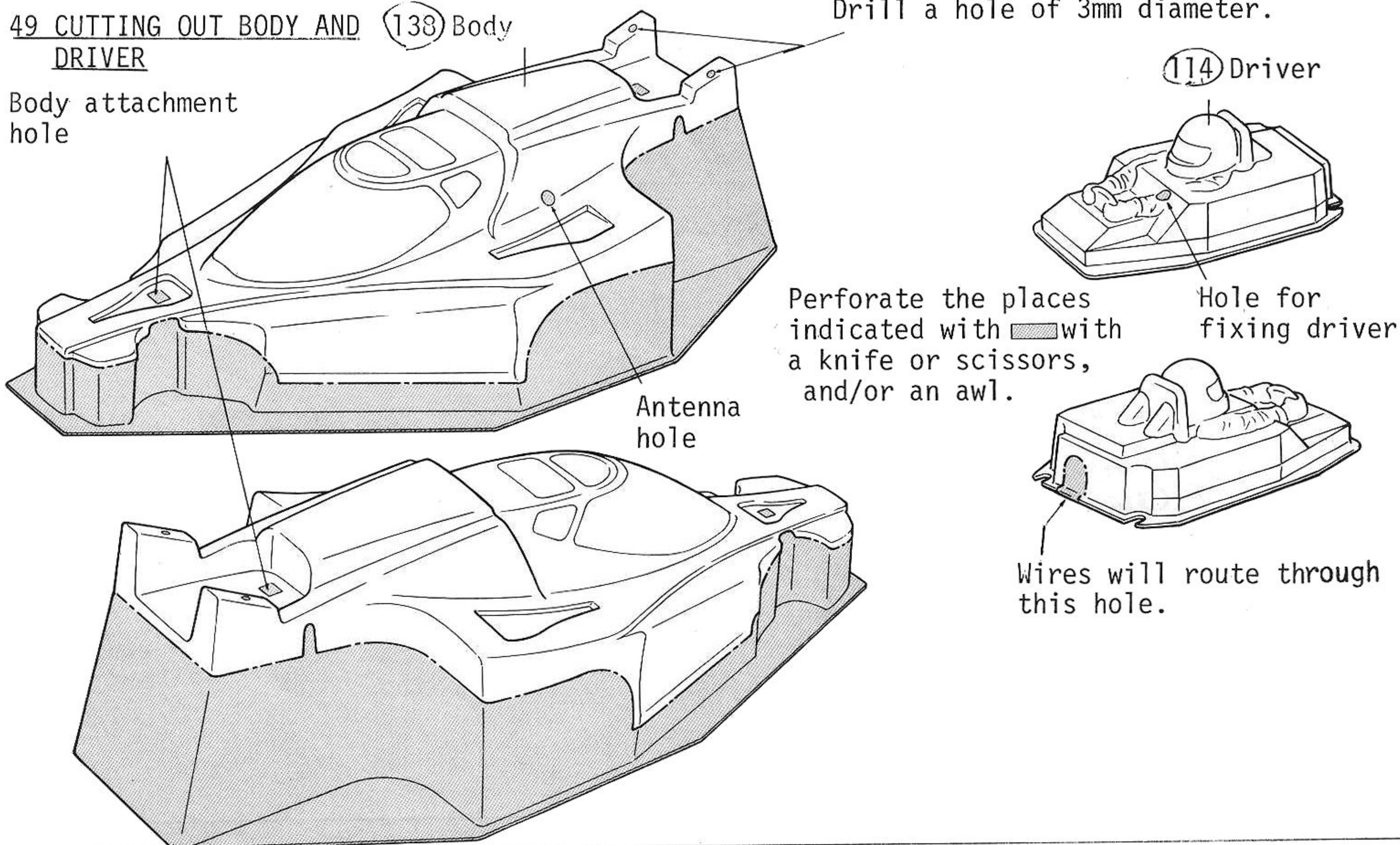


48 INSTALLATION OF TIRES

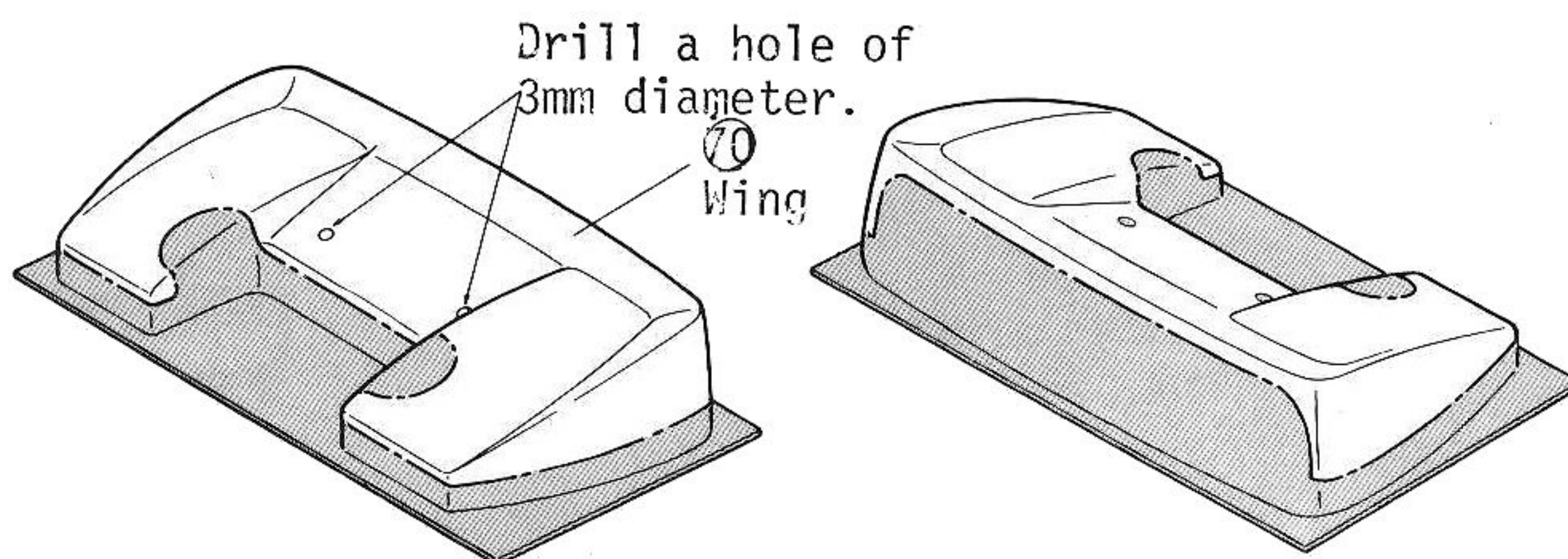


49 CUTTING OUT BODY AND DRIVER

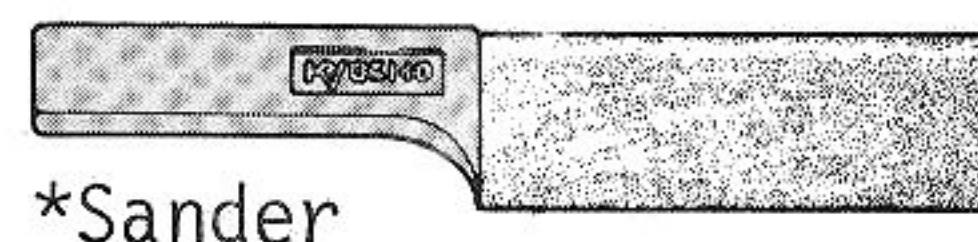
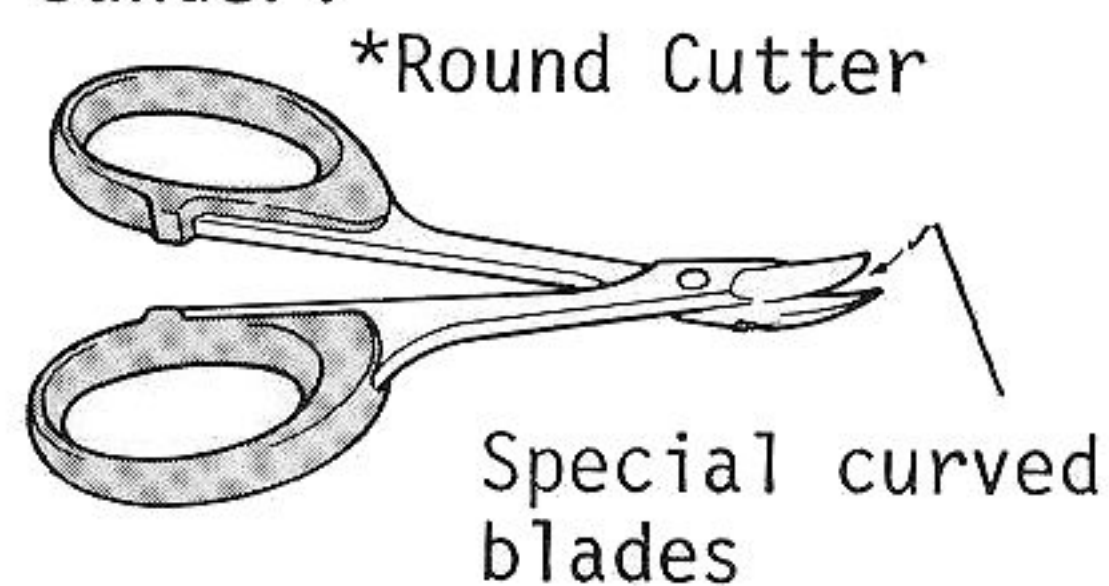
Body attachment hole



50 CUTTING OUT WING



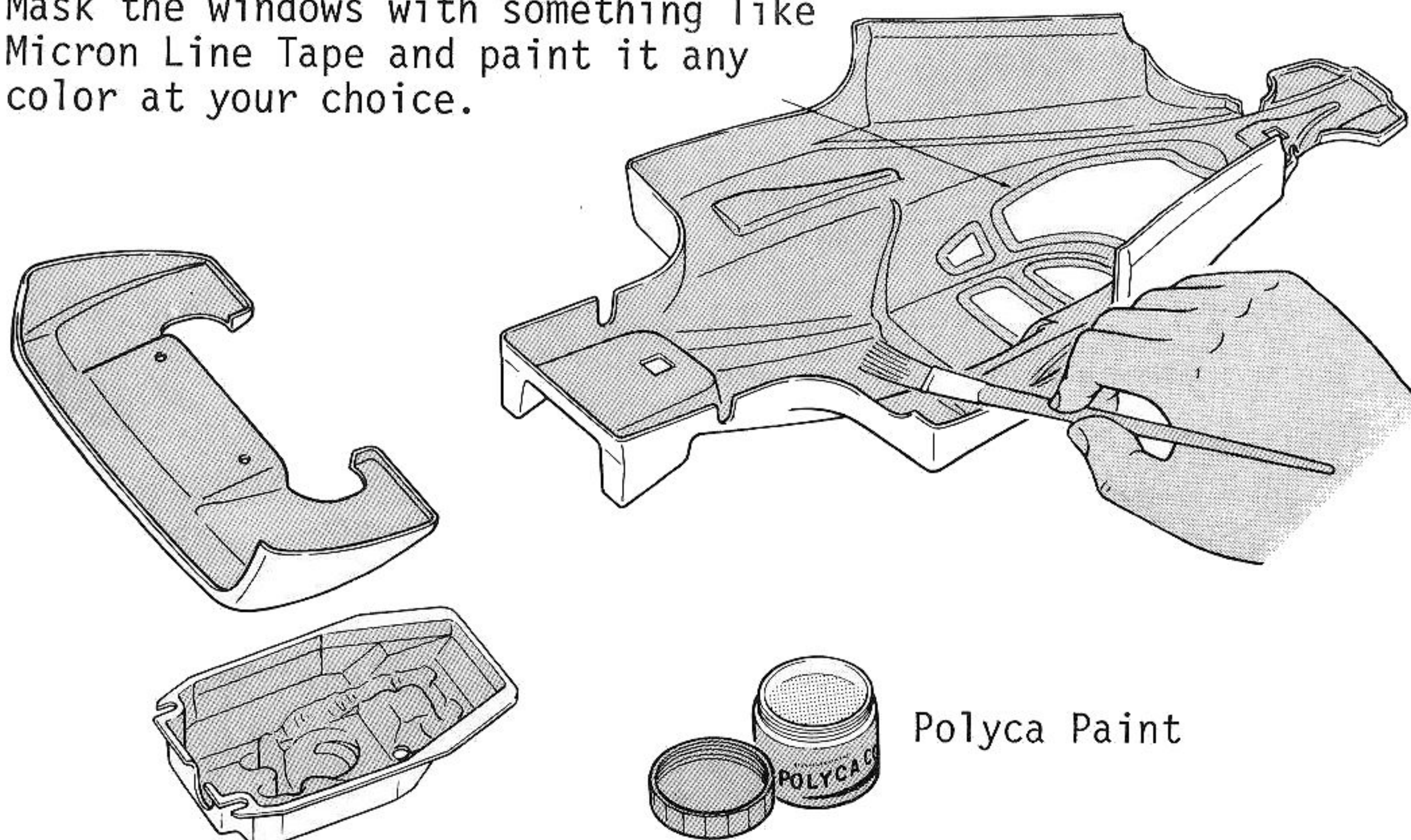
The "Round Cutter/Sander" is available at Kyosho which is composed of snips for the exclusive use of cutting the polycarbonate body and a sander.



51 PAINTING

First, wash the body to remove any oil or dirt. Rinse thoroughly. Paint the inside of the body. You can obtain a color scheme by masking a portion with tape then removing the tape and painting. Apply the lightest color last.

Mask the windows with something like Micron Line Tape and paint it any color at your choice.

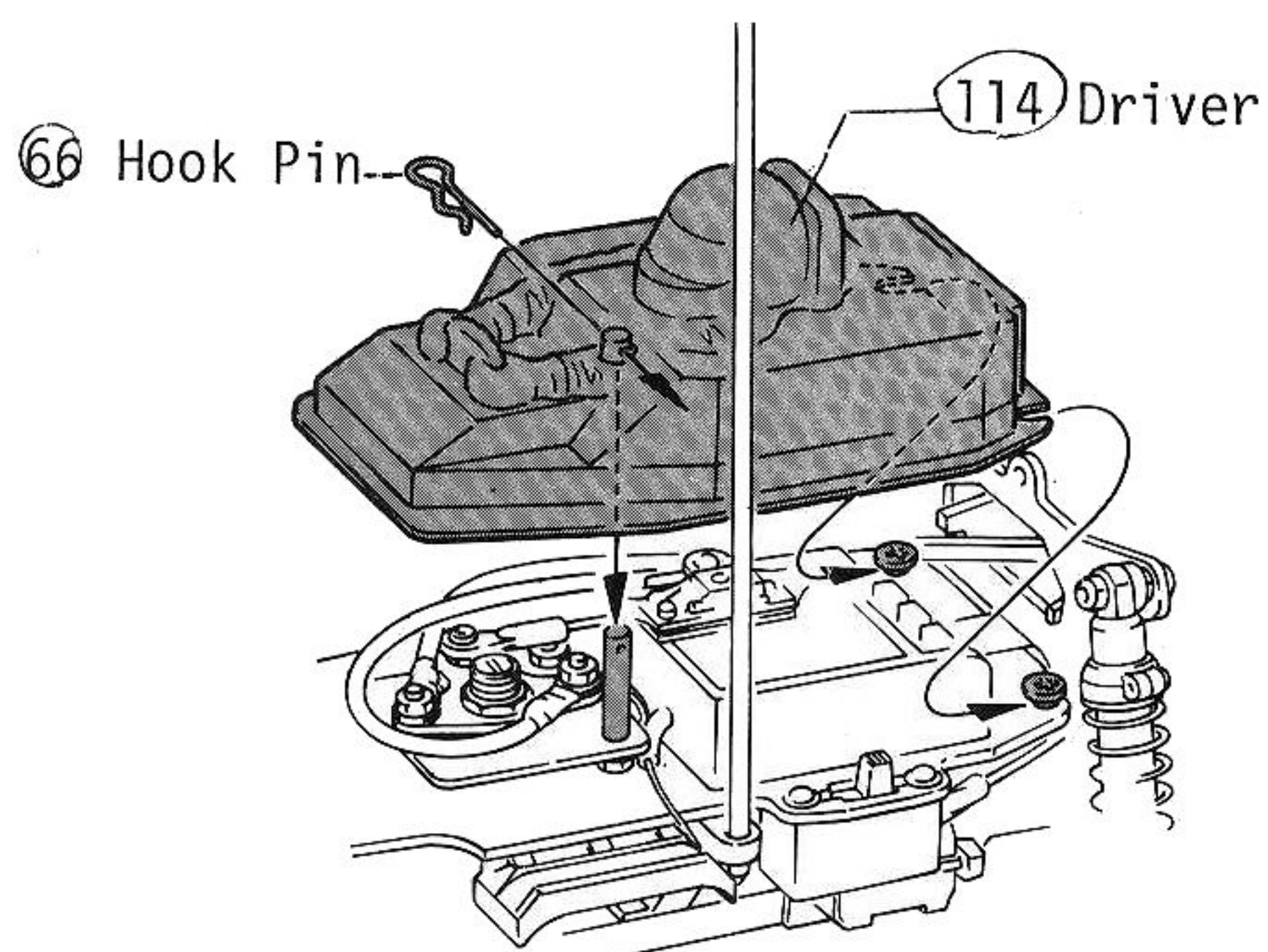


Micro-Line tape enhances the appearance of any model.



Polyca Color Paint is available for painting your Lexan Bodies. 12 great looking colors!

52 MOUNTING OF DRIVER



Bundle wires with a strap (S) and cut off excess.

Since the speed controller must move freely, leave slack in the cords.

Speed Controller

Bundle cords and lead them out of cut behind driver doll.

[Working Test of Speed Controller]

1. Confirm that the speed controller wiper is positioned in neutral (refer to the illustration in step 40) and plug in the battery connector (refer to step 53).
2. Switch on the radio control units and operate the speed controller to see if the wiper will move from the lowest to the high and to the reverse as illustrated in step 40.

*When the wiper does not swing smoothly, see if the motor lead is too tight, or, on the other hand, too long and rubs against the inside of the driver doll. Either case will hamper the smooth movement.

53 MOUNTING OF BODY

[Mounting of Ni-Cad Battery]

Hold Ni-cad battery firmly with a Ni-cad battery holder by Ni-Cad Strap.

Turbo Racing 8.4V Battery (Not included in the kit)

(128) Battery Holder

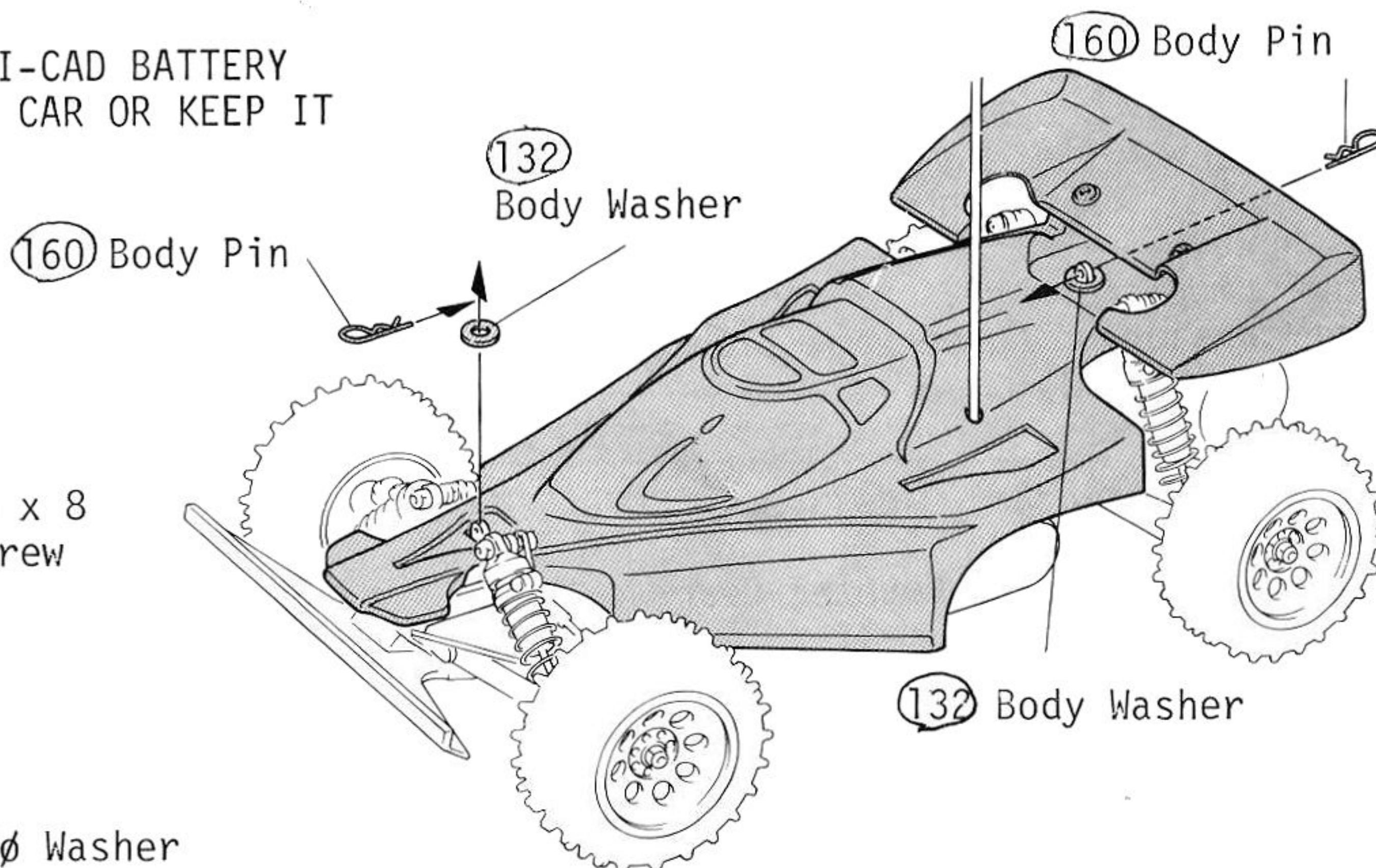
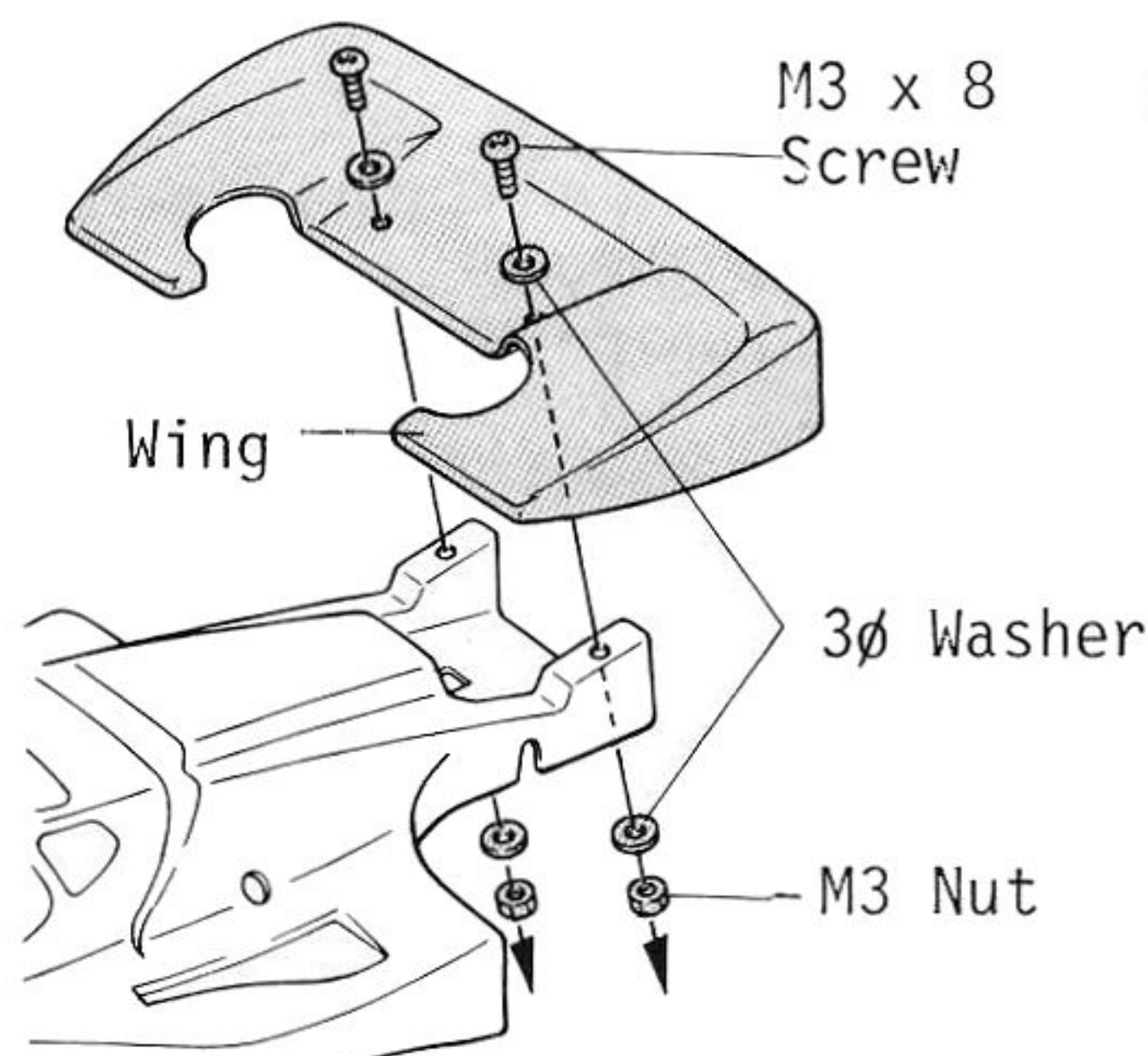
Insert the battery from this side in the direction as shown.



Kyosho puts in the market a high power 8.4V Turbo Racing Battery which is composed of tabless type cells. It can discharge a lot of current at a time to give a model car excellent pick-up power and running ability.

BE SURE TO DISMOUNT THE NI-CAD BATTERY WHEN YOU WILL NOT RUN THE CAR OR KEEP IT IN STOCK.

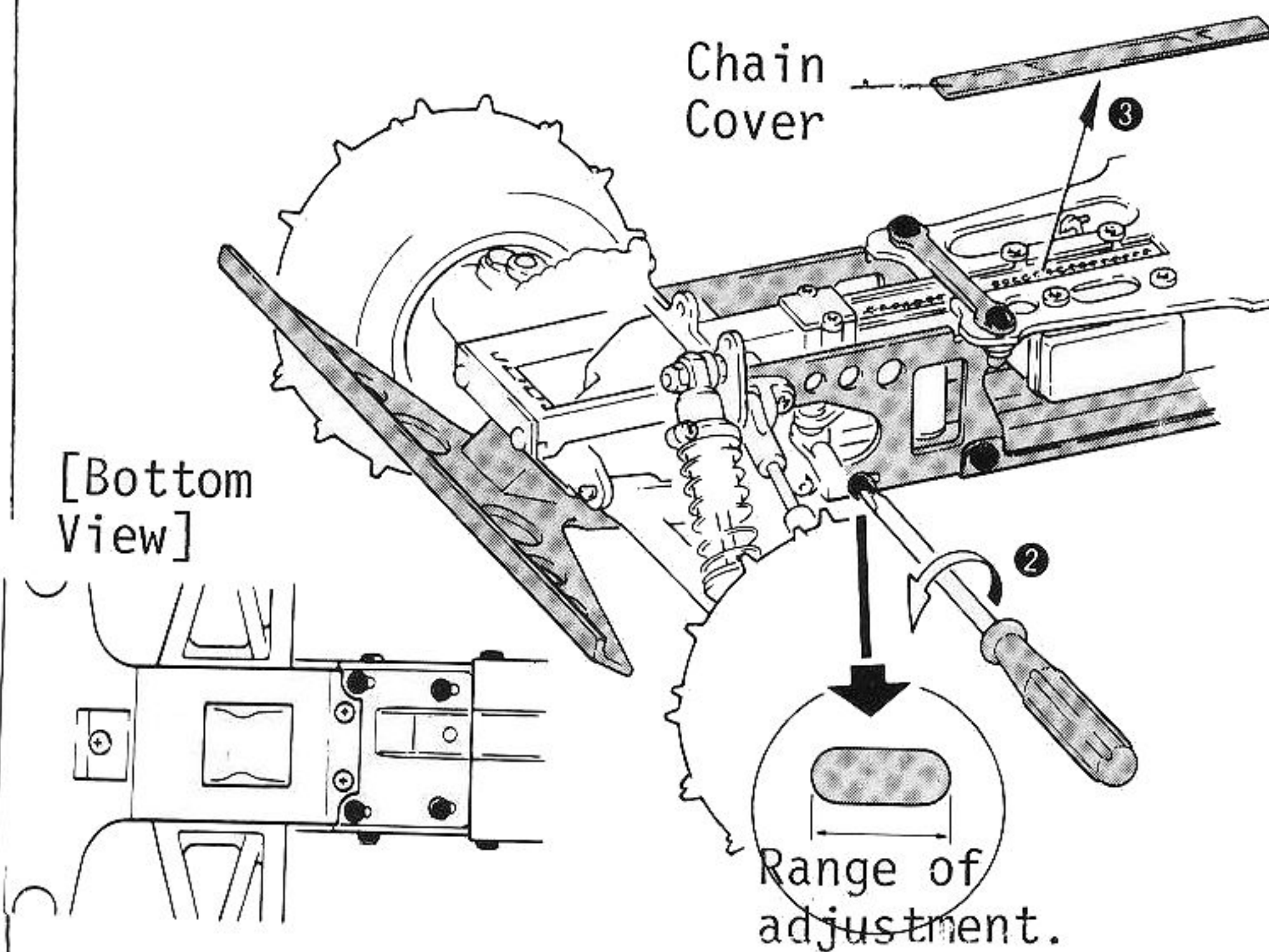
[Installation of Wing]



ADJUSTING THE CHAIN

To avoid any damage to sprockets, adjust the chain every 5-6 runs.

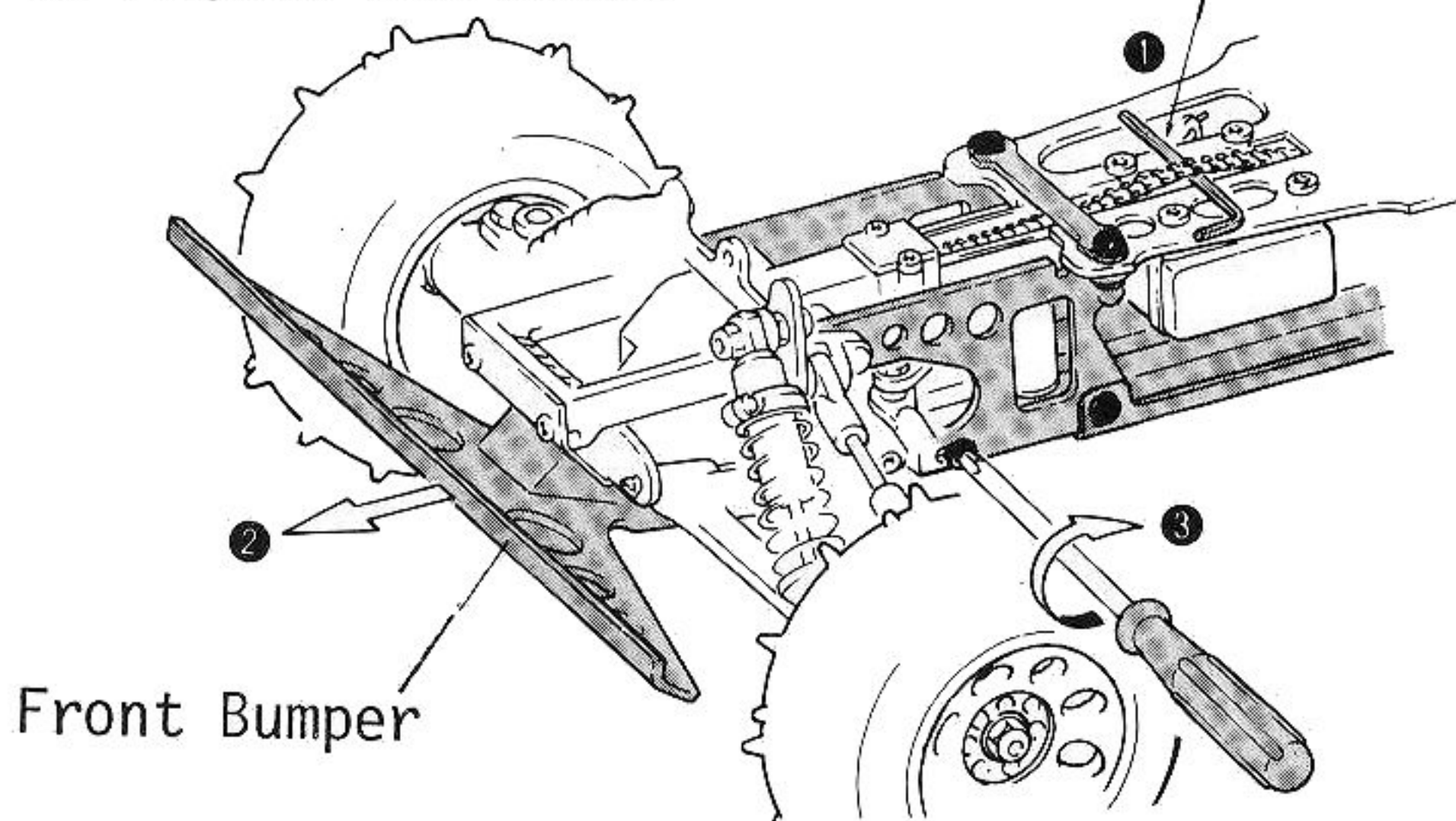
1. Remove the Chain Cover



- ① Remove the Body.
- ② Loosen 10 (darkened) screws 1/2 turn each.
- ③ Remove the chain cover.

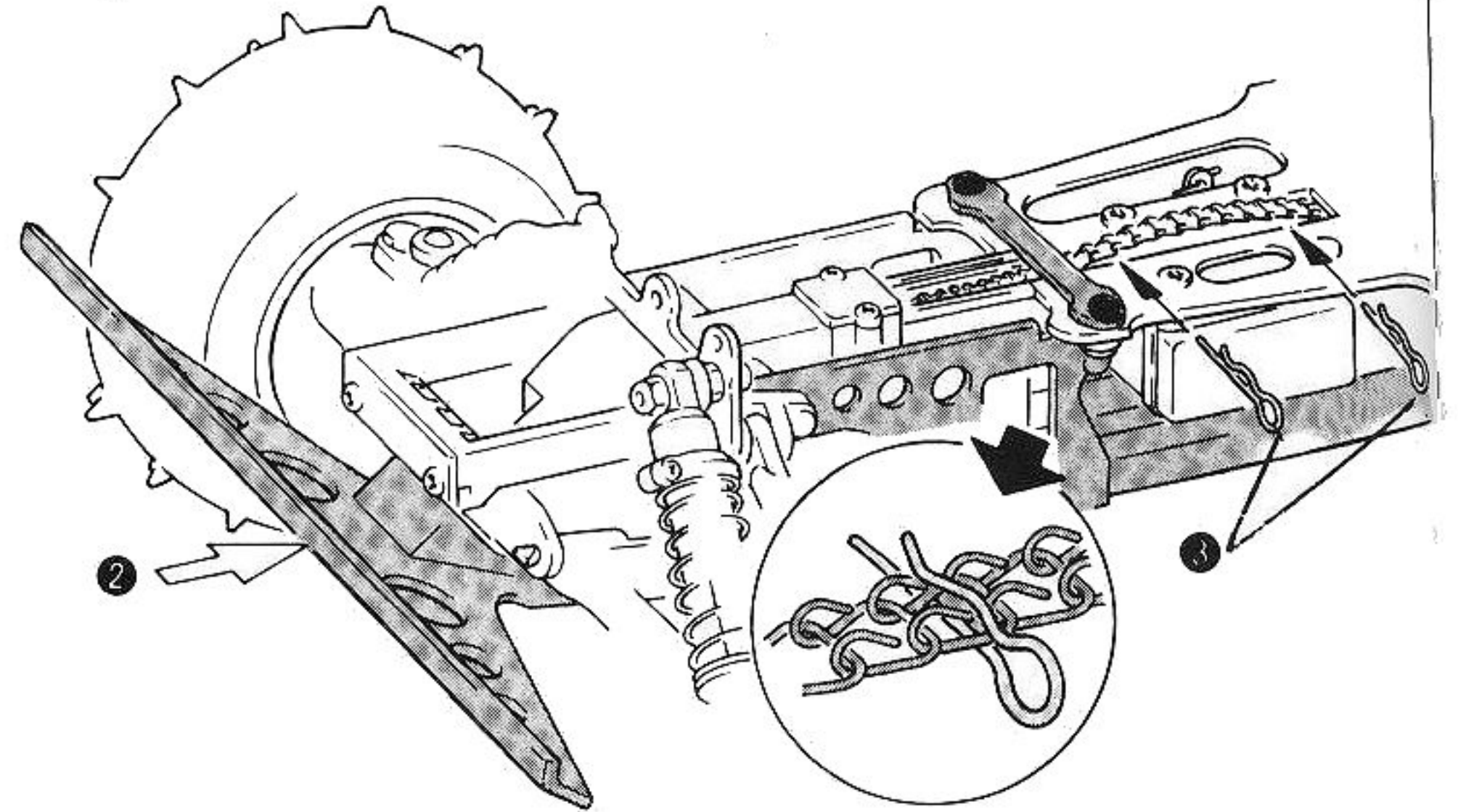
2. Adjust the Chain

1.5mm Allen Wrench

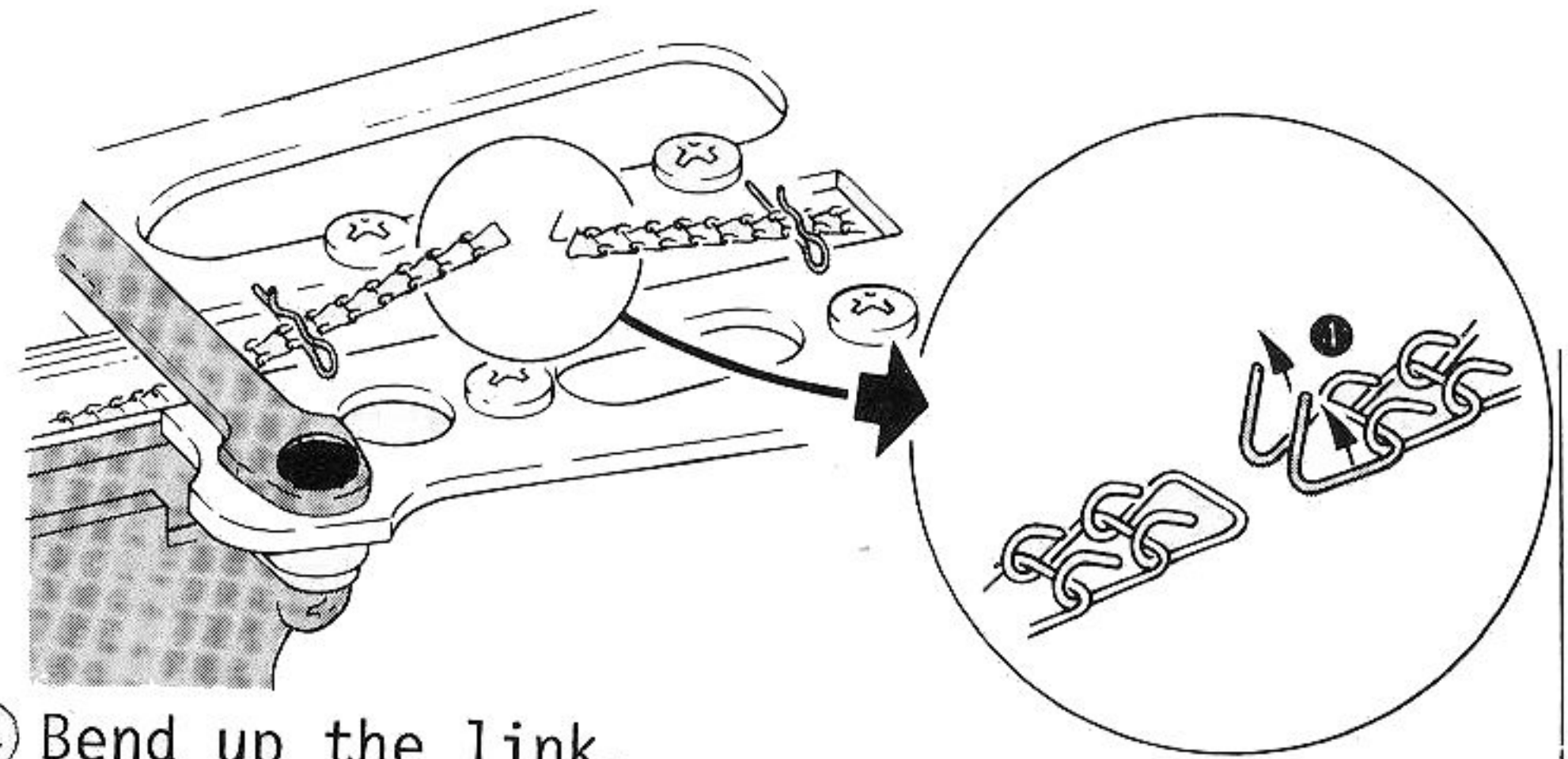


- ① Insert a 1.5mm allen wrench under chain as shown.
- ② Pull bumper forward.
- ③ Keep tension on bumper and tighten the 10 screws firmly.

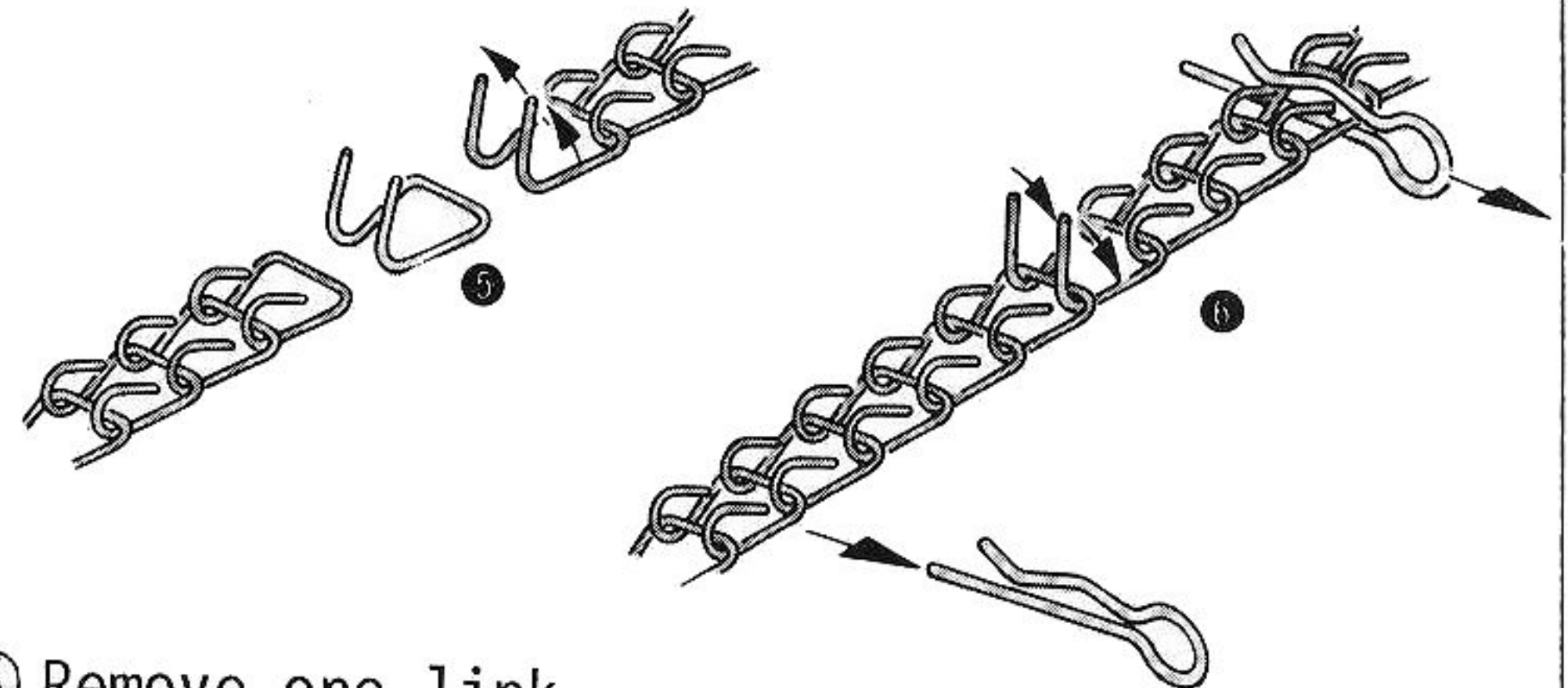
*When chain is stretched beyond range of adjustment.



- ① Loosen the 10 screws.
- ② Push bumper rearward to loosen chain fully.
- ③ Hold the chain with hook pins as shown in inset drawing.

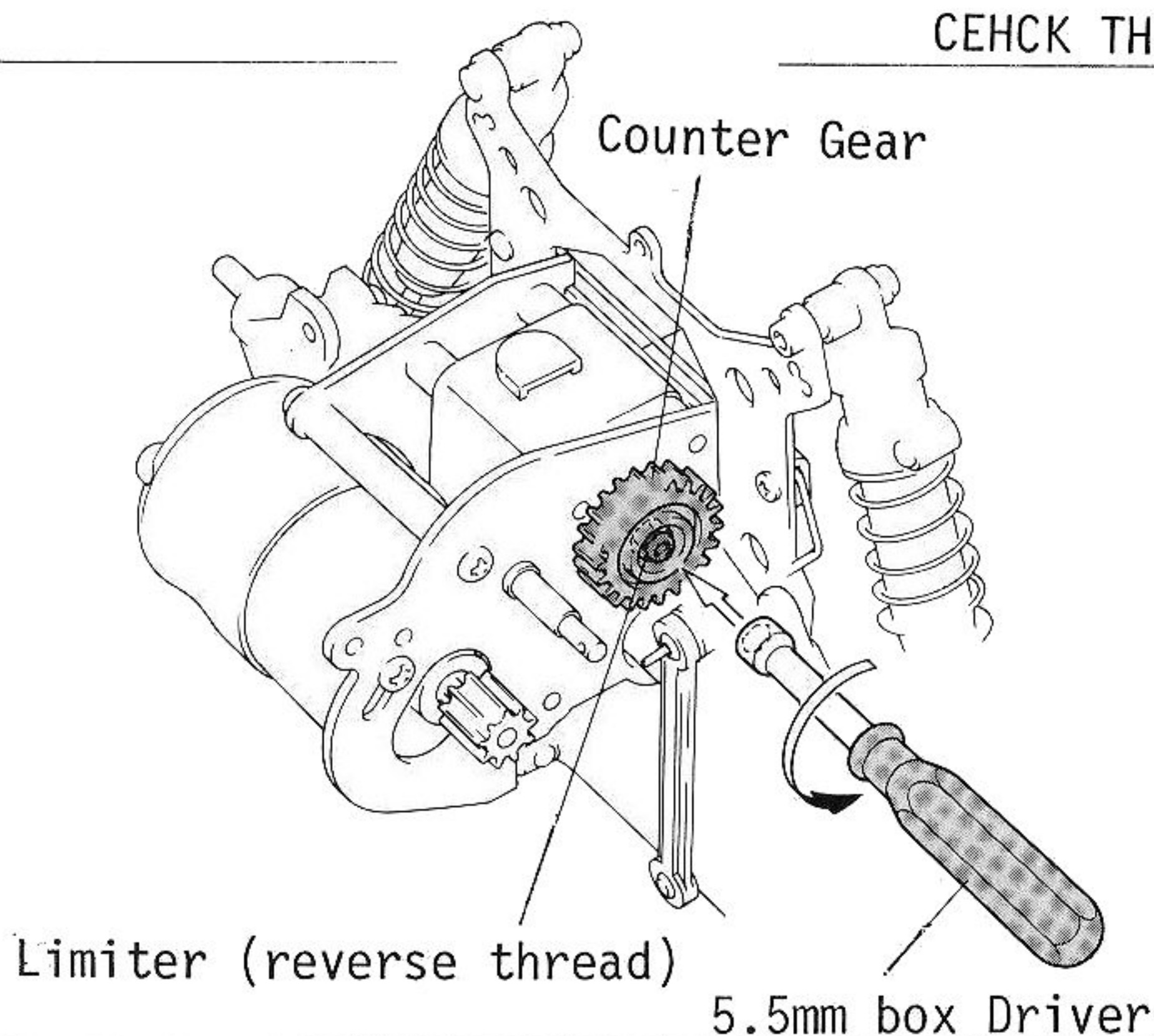


- ④ Bend up the link.



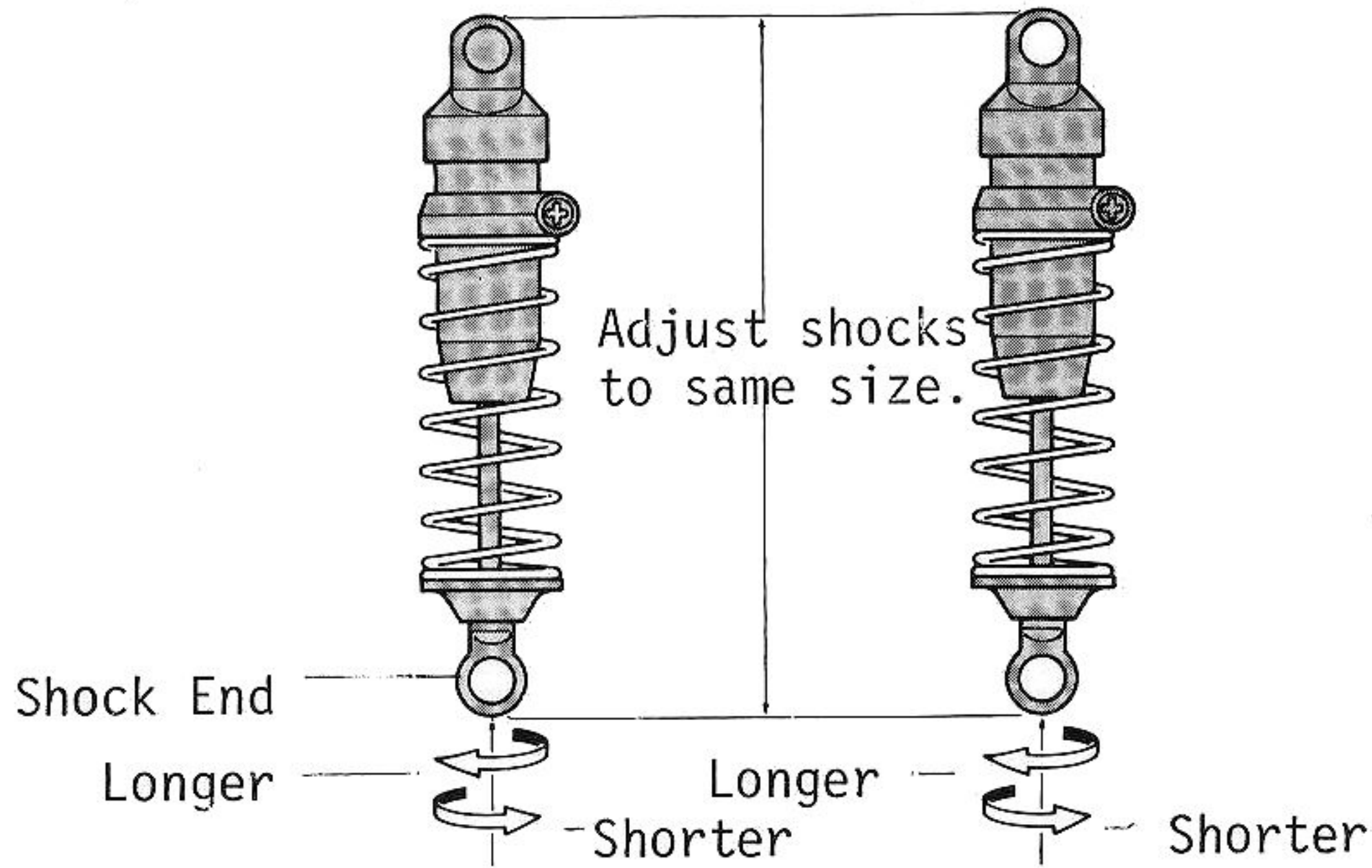
- ⑤ Remove one link.
- ⑥ Connect the chain again by bending the link ends down. Readjust the chain.

CHECK THE LIMITER



Check the limiter nut once in a while. Whenever you find it loosen, tighten it firmly; otherwise, the counter gear will run idle excessively to result in melting the nut.

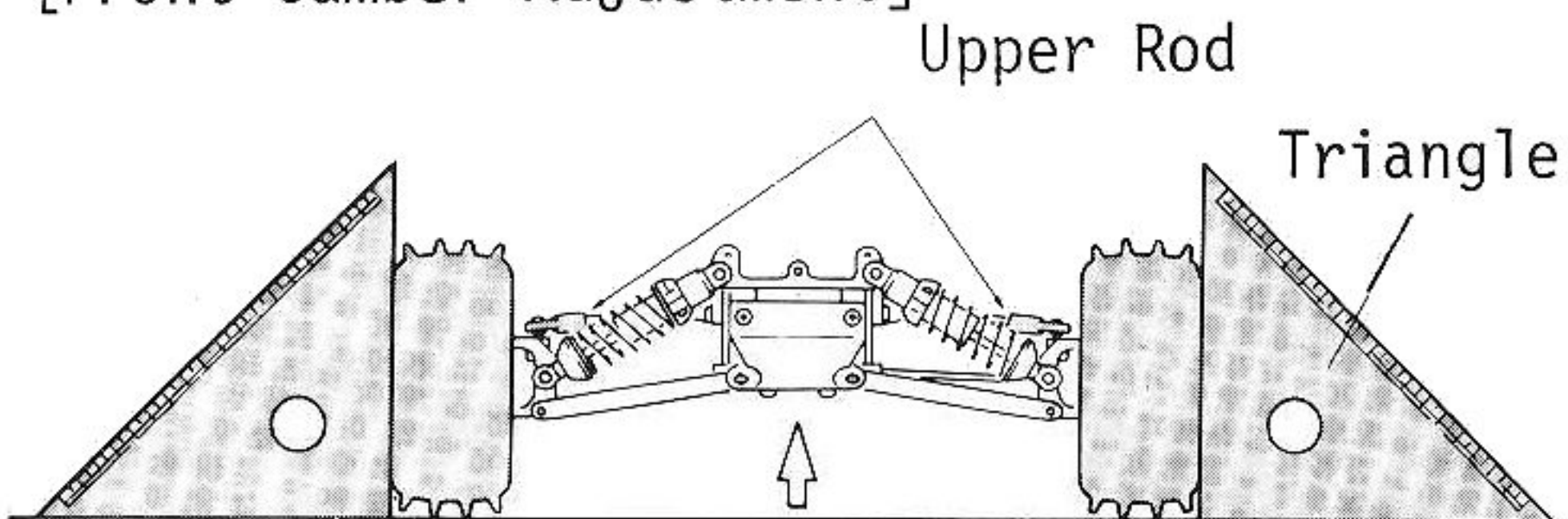
ADJUSTMENT OF SHOCK SIZE



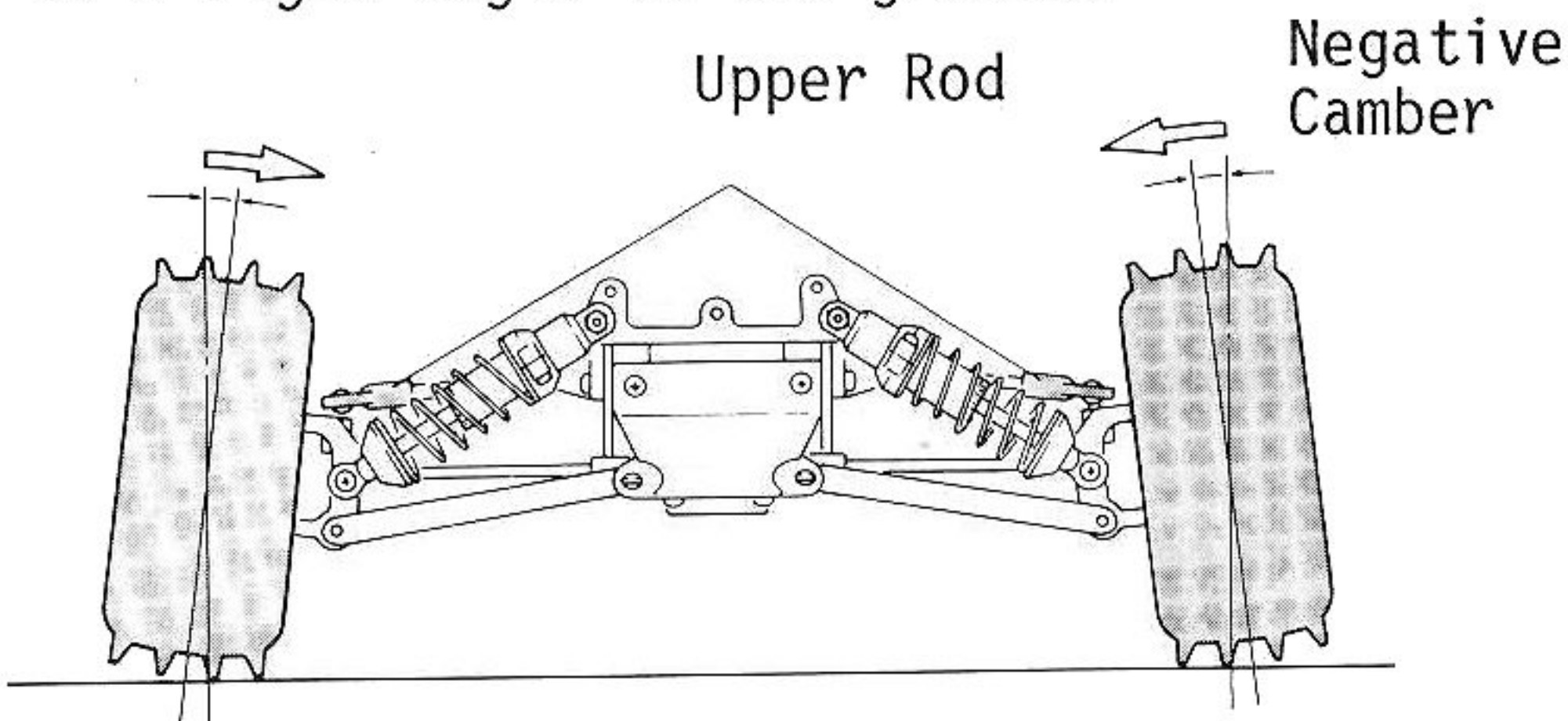
Adjust the shocks so that both front shocks and both rear shocks are exactly the same length.

BASIC ADJUSTMENT GUIDE FOR THE OPTIMA

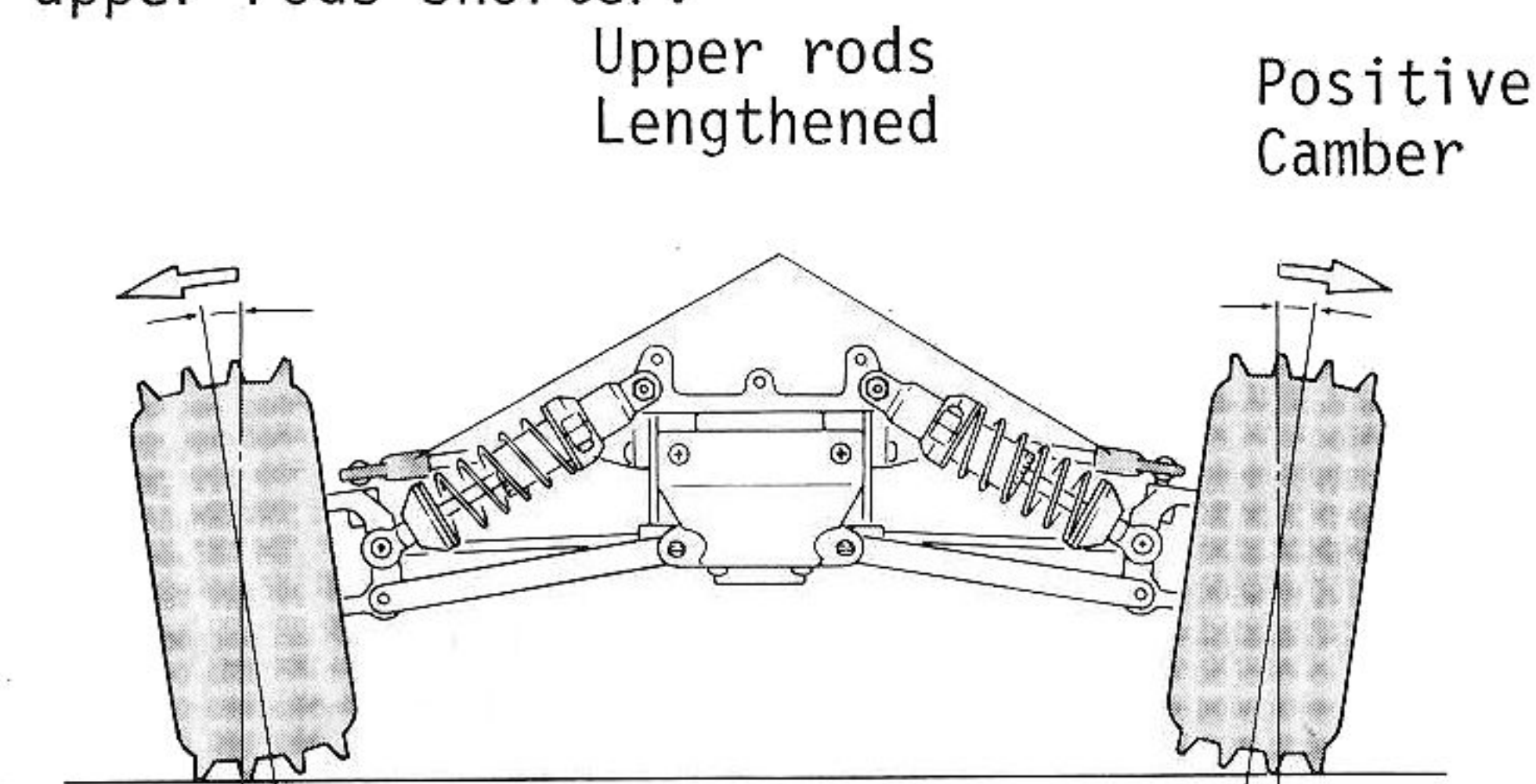
[Front Camber Adjustment]



Place the car on a flat surface with the chassis raised as high as possible and adjust the length of the front and rear upper rods in a way so that the tires stand at a right angle to the ground.

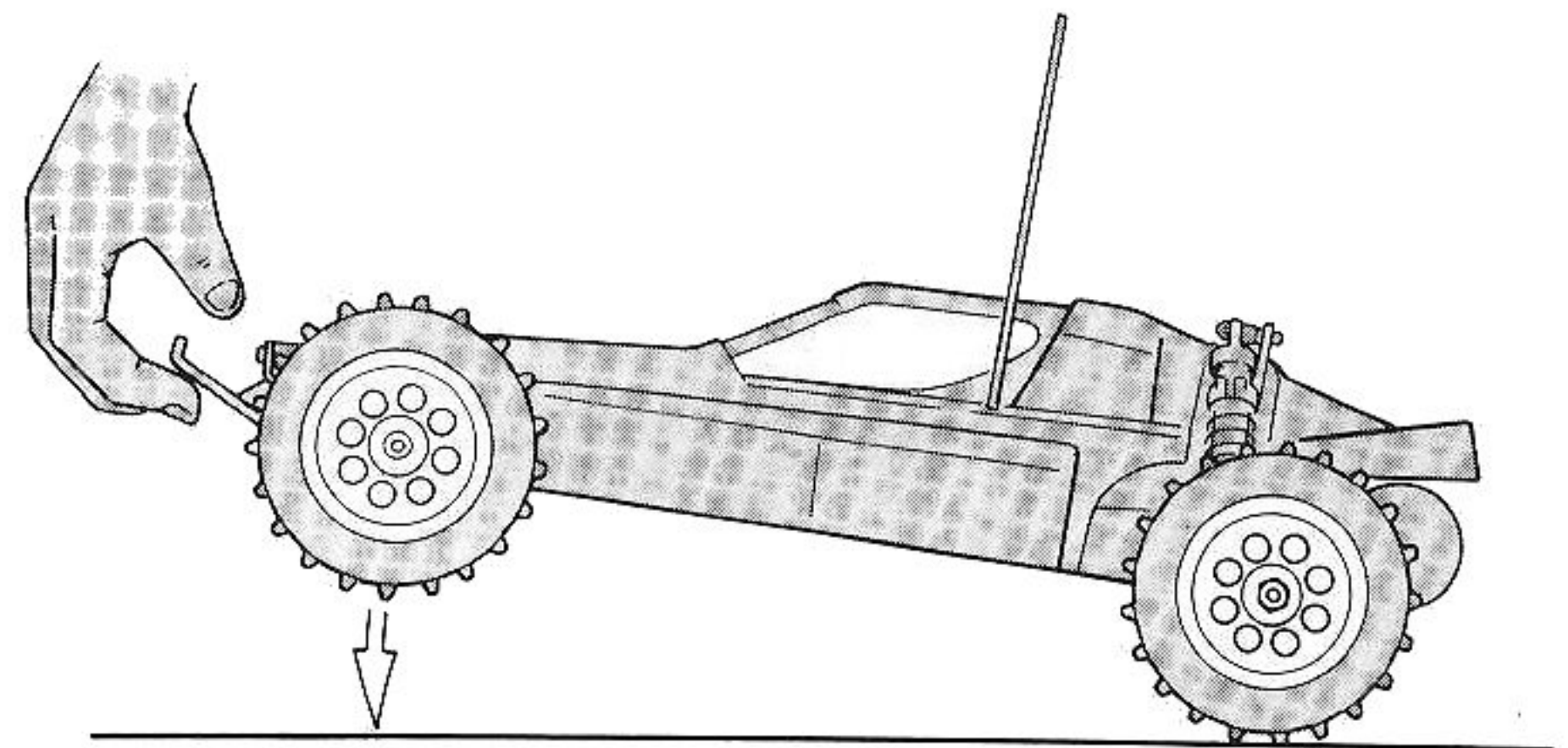


Negative camber results when you make the upper rods shorter.

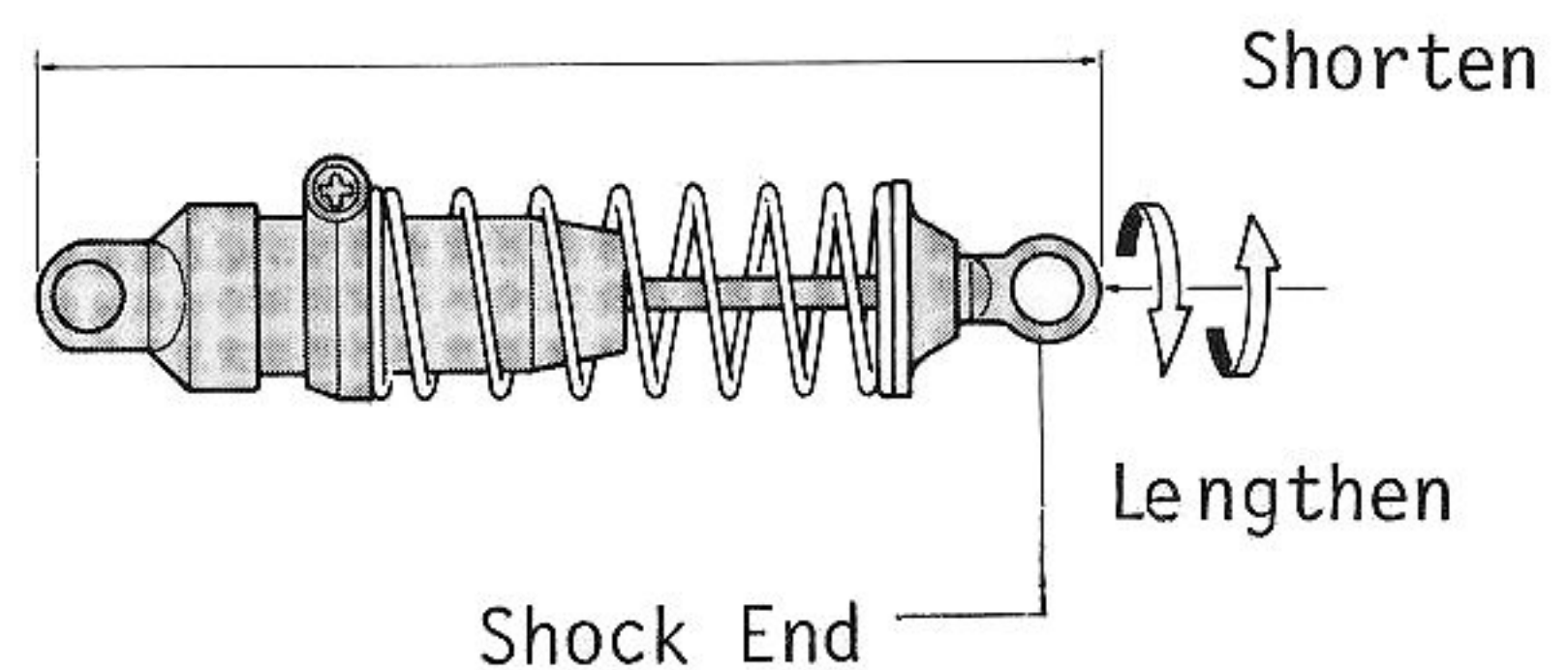
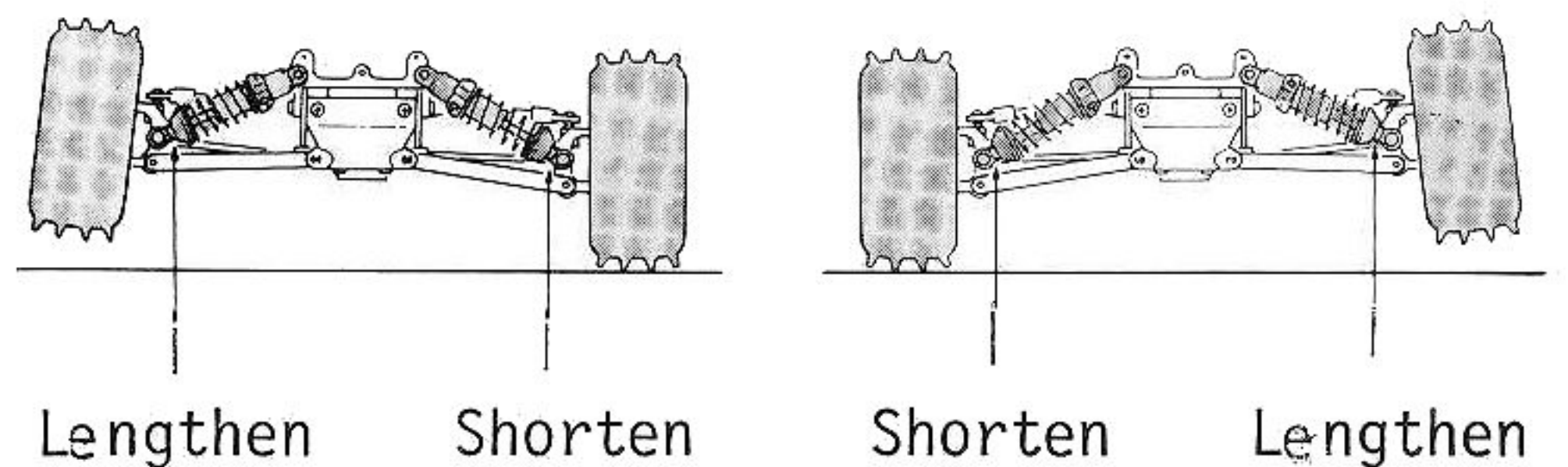


Positive camber results when you make the upper rods longer.

[Front Wheel Height]



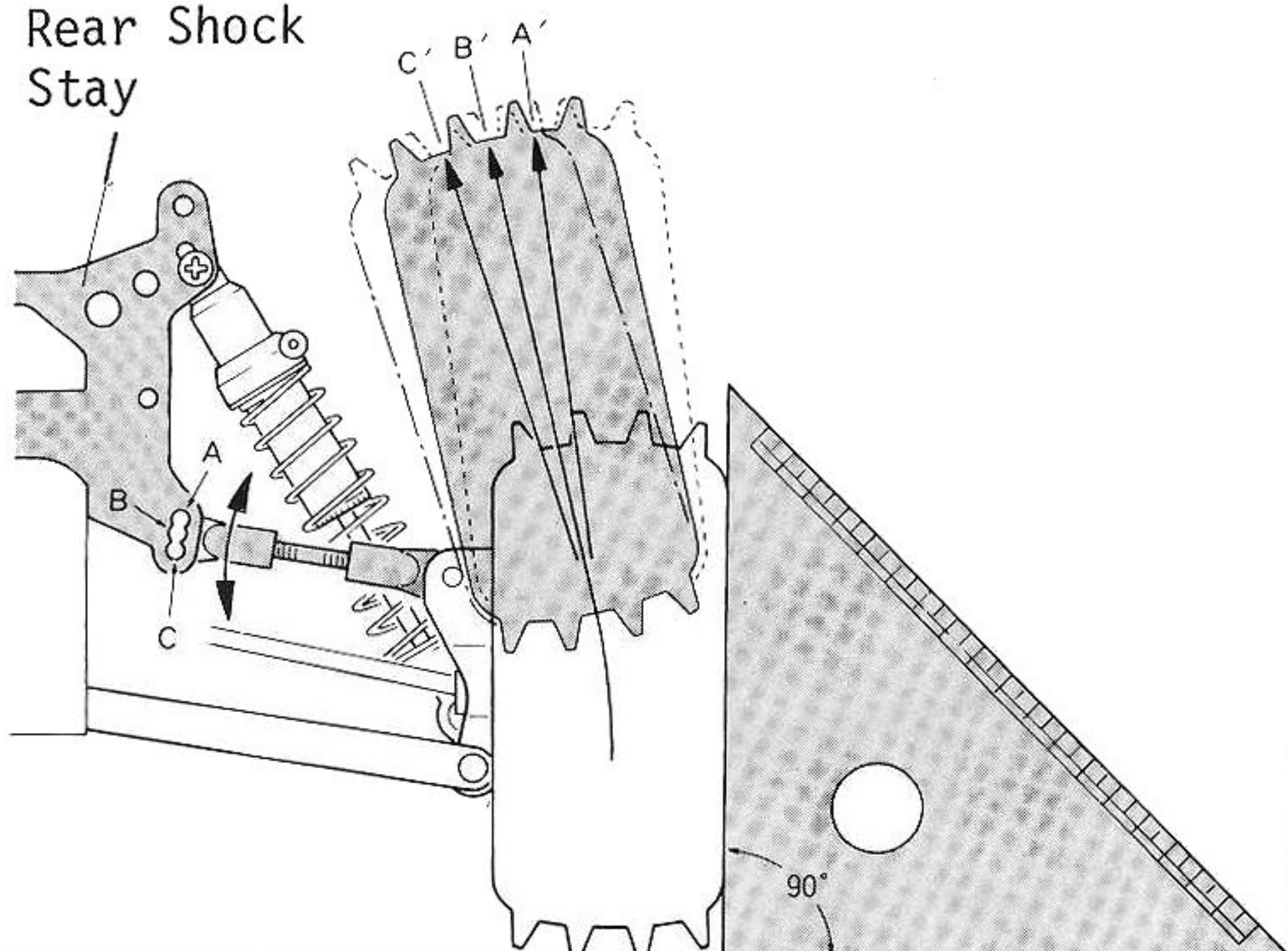
Place the car on a flat area, raise the front end and then lower the front wheels slowly to see whether they will touch the ground evenly. If not, adjust the length of the shocks. If they are uneven, steering to the right and left will not be the same.



Adjust the length by turning the shock end.

[Rear Camber Adjustment]

Rear Shock Stay



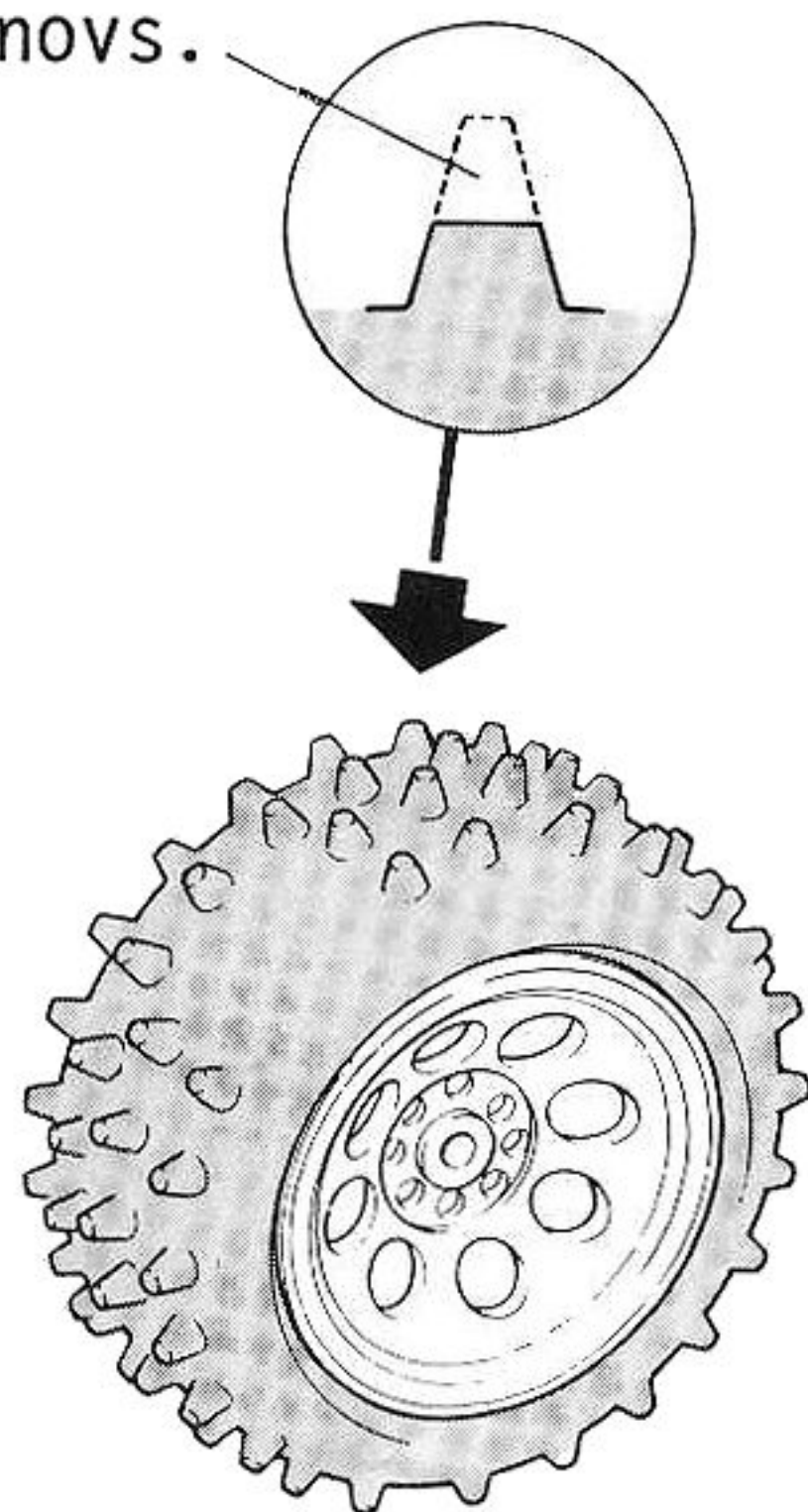
You can alter the rear wheel camber by shifting the bolt hole location of the upper rod. Hole "A" provides more positive camber while hole "C" provides more negative camber. The middle hole "B" should be used normally.

[Customizing the Tires]

You can increase performance for various track conditions by trimming the knobs of the tires. Consult the chart below.

Trim the knobs.

Track	Amount of Trim
Grass	1/2
Concrete	2/3
Sand	None
Hard Dirt	1/3
Soft Dirt	None



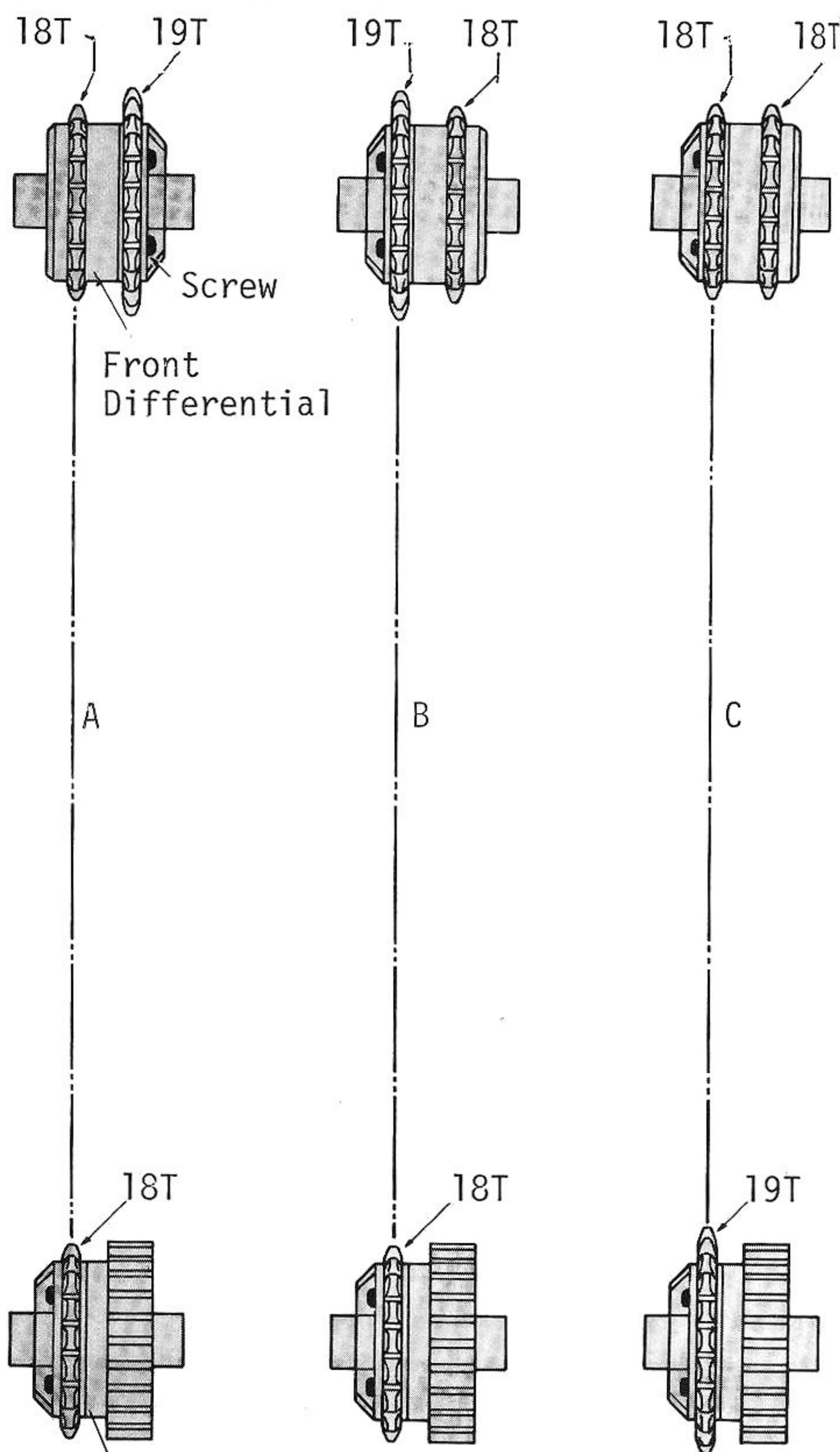
[Optional Tires]

The Option House" set, available separately, offers you the W5031 Low-Profile Tires for hard ground, and the W5032 for soft soil.

Pinion Gear	9T	10T	11T	12T	13T	14T
Gear Ratio	13.8	12.4	11.2	10.3	9.85	8.8
Motor	240S		360 Gold			
	240SB					

[Adjusting Front/Rear Power Ratio]

By changing the front and rear sprockets, you can change the power ratio.



Rear Differential

A. Normal: Front and rear turn at same rate.
B. Rear wheels have slightly more power.
C. Front wheels have slightly more power.

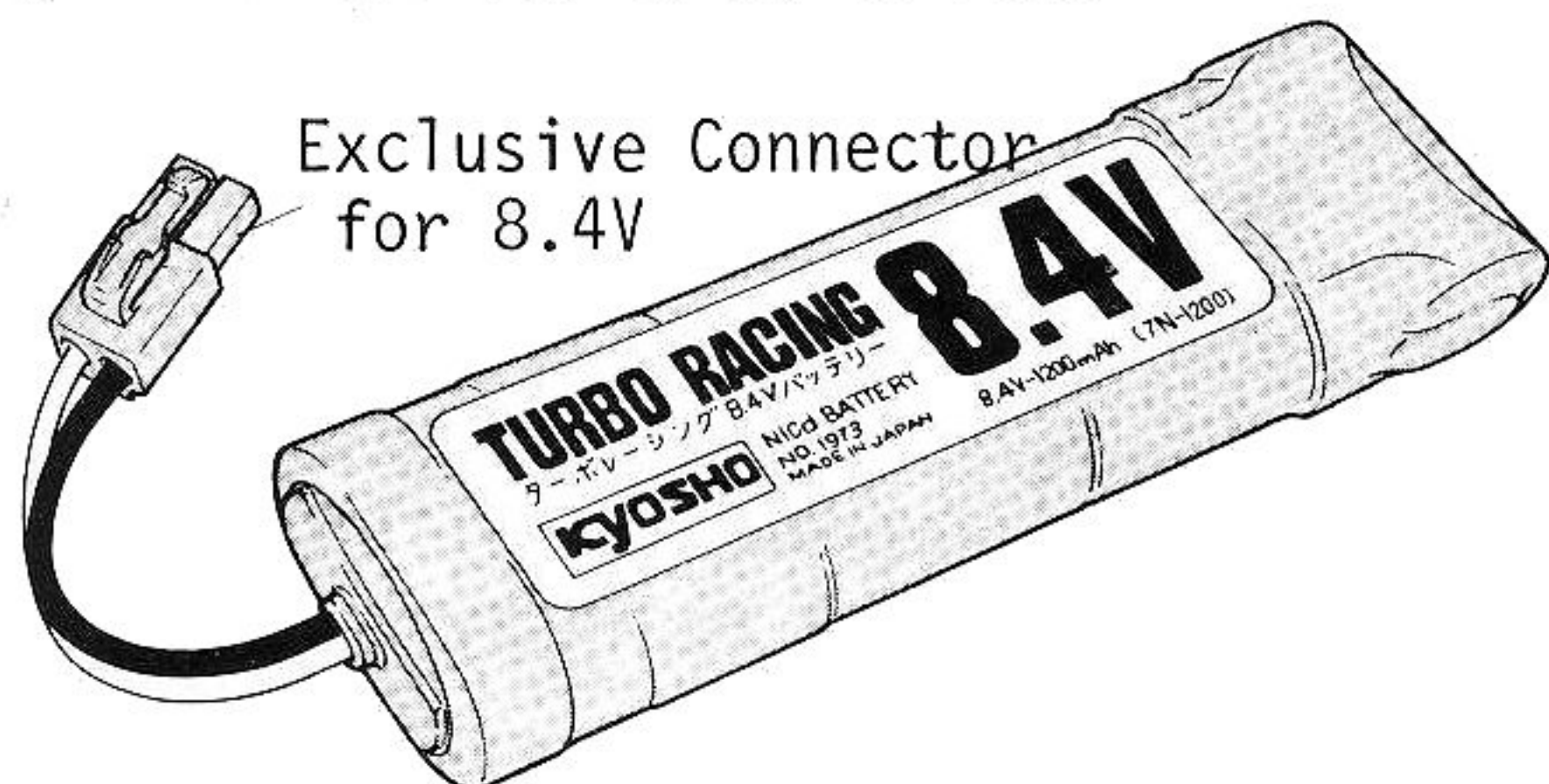
[Keeping the Chain Clean]

Be careful not to let sand and dust in through the chain cover and chain guide. Seal the openings around the chain cover and guide with cellophane tape or silicone sealer. Remove the gearbox hatch cover and hold the car upside down to remove any dirt.

[Replacing the Chain]

To replace the chain, remove the chain cover (B); and holding the model vertically with the front upward, feed the chain from the front sprocket to the rear. It may require a few tries to get it right.

The 8.4V Turbo Racing Battery is a high power battery pack for more powerful running. It puts out about 1.4 times the power of the existing 7.2V racing battery. With higher voltage, it will discharge a greater amount of current. So you have to be careful if there is any loose contact or connection in the circuit. Plug out the connector when you store the car after a run.

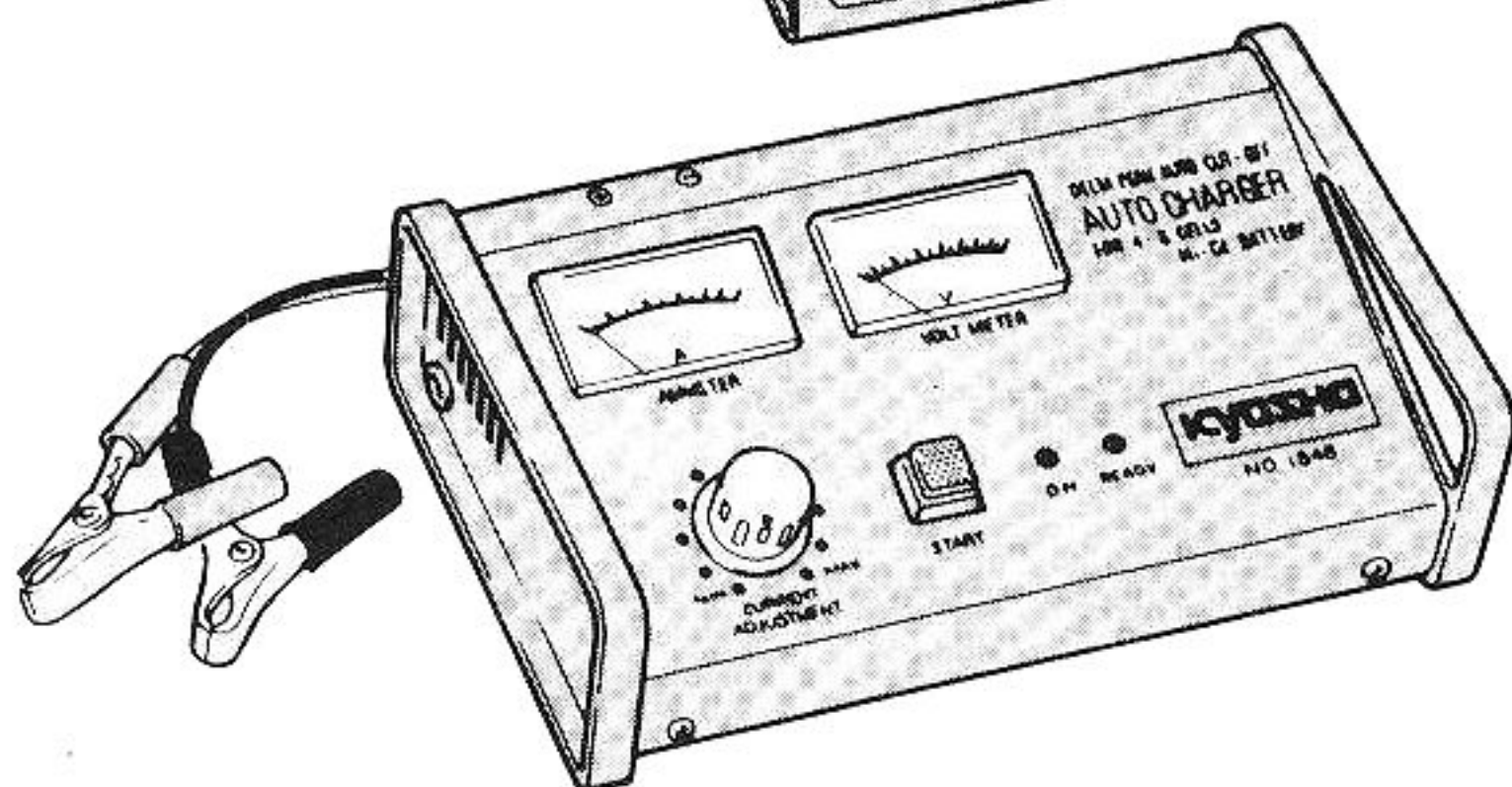
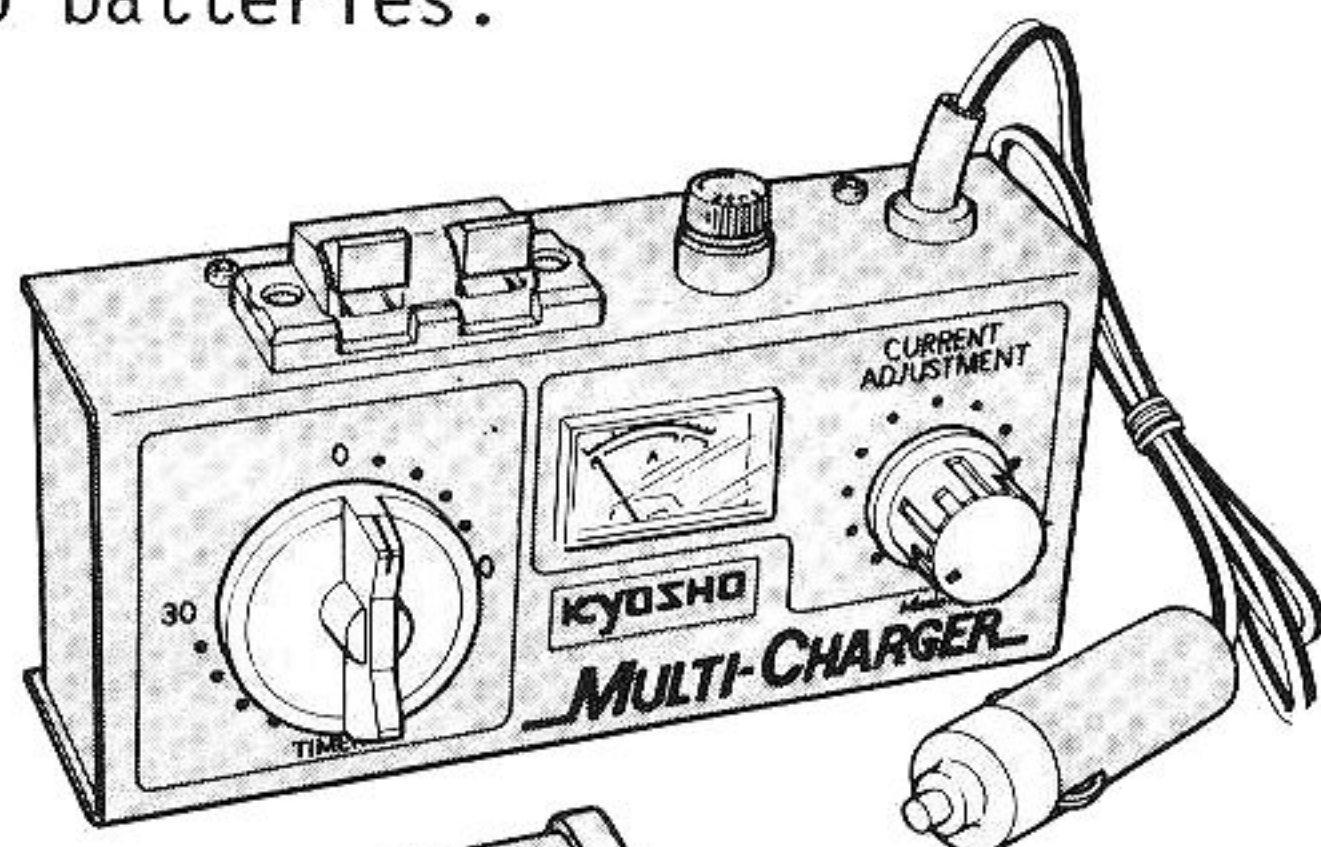


Exclusive Connector
for 8.4V

CHARGE THE 8.4V BATTERY

When you charge it from a 100V source, the 8.4V AC Quick Charger is ideal. You can charge it in 50 minutes. From a 12V battery, The Multi-Charger or the Auto Charger (auto cut off) are recommended, the former will charge it in 25 minutes at the highest range. It will often happen that, toward the end of charging, the charging amperage is tend to decline. This is a natural course of events because of a little disparity in voltage between the two batteries.

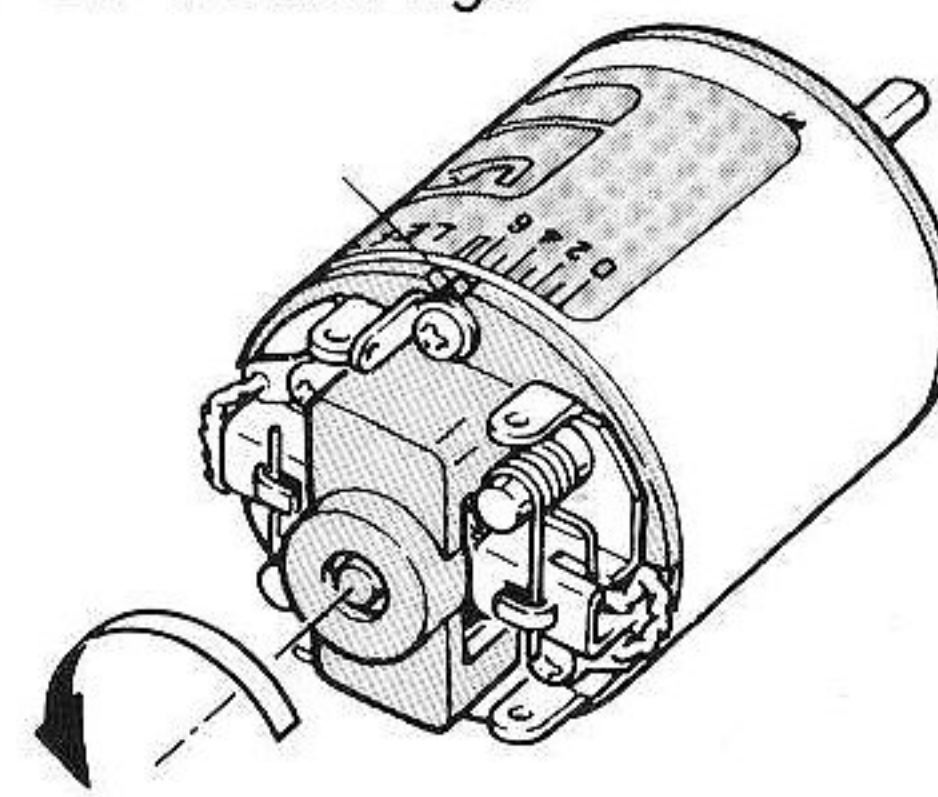
Multi-Charger



Auto Charger

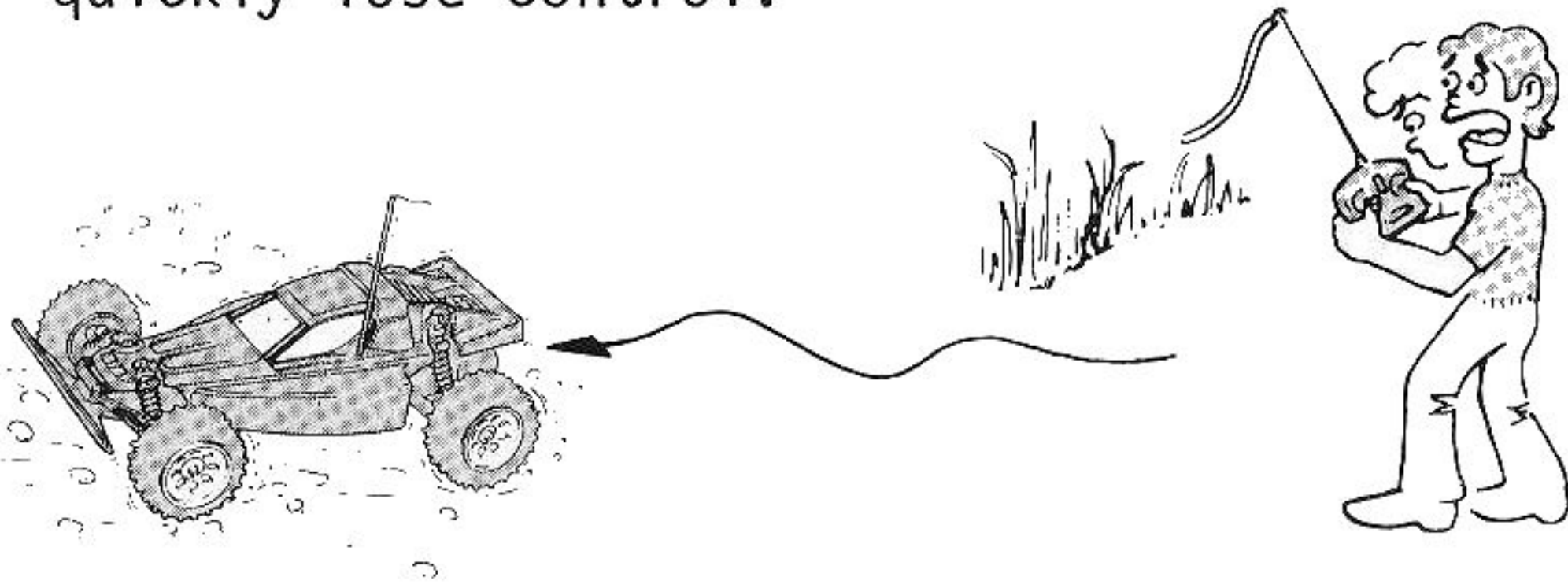
The Le Mans 240S is designed as a high-rotation and high-power motor, still there are some requirements to bring out its maximum capability;

1. The portion of commutator and brushes is a possible place to generate heat. So check the point each time if you impose heavy load on it. If you find it discolored or any carbon accumulated, run it idle for 10 to 15 minutes after removing the pinion gear.
2. Perforate the motor cover as shown in step 28 on page 12 without fail for better ventilation. Without it, the motor may be damaged.
3. Adjust the timing point according to the duration of a run within the range between 0 to 6. The more number of timing adjustment, the more speed, at the same time, the more consumption of current and the shorter duration of running.

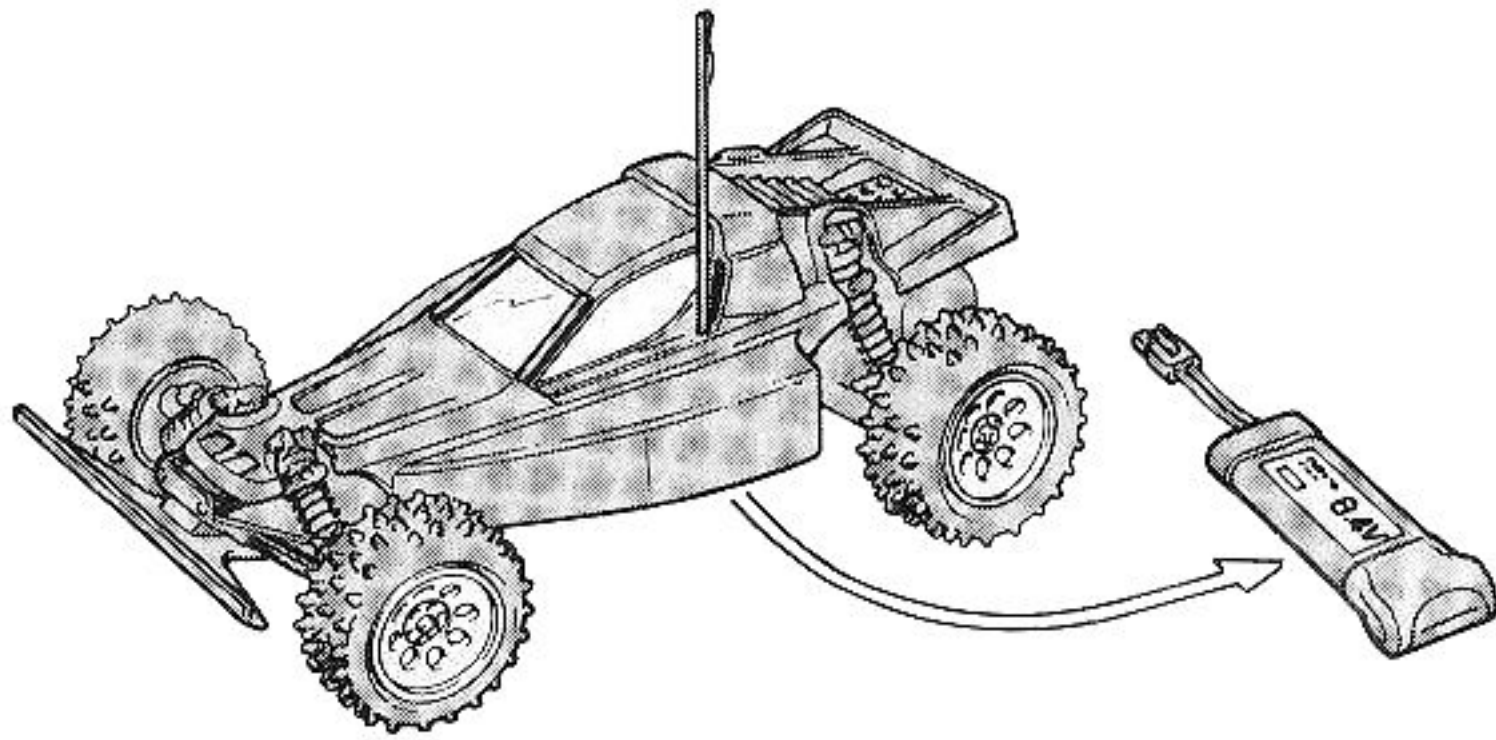


4. Overhaul the motor periodically. (Refer to the instruction which came with the motor)

The same battery powers the radio and motor. As soon as the car starts to slow down, recharge the battery. Otherwise you will quickly lose control.



After running, always remove the battery from the car.



[Check Before Every Run]

1. Check to see if all bolts and nuts are tightened firmly.
2. Check to see Ni-cad battery is fully charged.
3. Check to see if the steering and speed control is in proportion to your control of the transmitter.
4. Check to see that all wiring is properly insulated.
5. Check to see if parts are moving smoothly.

[Operating Procedures]

1. Turn transmitter switch on.
2. Switch on the receiver.
3. Check to see if the radio system is working properly.

NOTE: When turning off the switches, turn off the receiver first then transmitter. Otherwise, the servos may be left in a position other than neutral.

[TROUBLE SHOOTING IF THE CAR DOES NOT START]

1. Poor contact of connectors of batteries, connector, and speed control
2. Check to see if the Ni-cad battery is fully charged.
3. Check to see shortage of battery power for the transmitter.
4. Signal jamming from other radios.

WARNING FOR RUNNING THE CAR

The electric R/C powered by a highly efficient Ni-cad battery runs unexpectedly fast. So great care is required when you handle the car and the battery.

- *Do not run the car in the crowd and on the road.
- *Check the frequency bands when you see someone else also trying to run his car at a time with you. Radio control systems on the same frequency will respond each other and causing them to go out of control.
- *If your car suddenly stalled, or being caught by some obstacles, do not try to move the car further. It may result in burning the motor or wiring or in damage on other parts.
- *Do not try to hold the rotating wheels forcibly.
- *When connecting the Ni-cad battery, be sure that the speed controller is positioned in neutral.
- *Any binding or drag on the bearing portion of driving system imposes heavy load to the motor and battery, thus causing overheating of the components or that the car does not gain speed. So check to see always if the driving system will turn smoothly. Application of oil and grease is also very important.
- *With those cars which have only one battery powering both the motor and the radio control units, the cars come to be out of control as the battery voltage is being dropped down. So whenever you will find your car losing speed, discontinue the operation.

MAINTENANCE AFTER A RUNNING

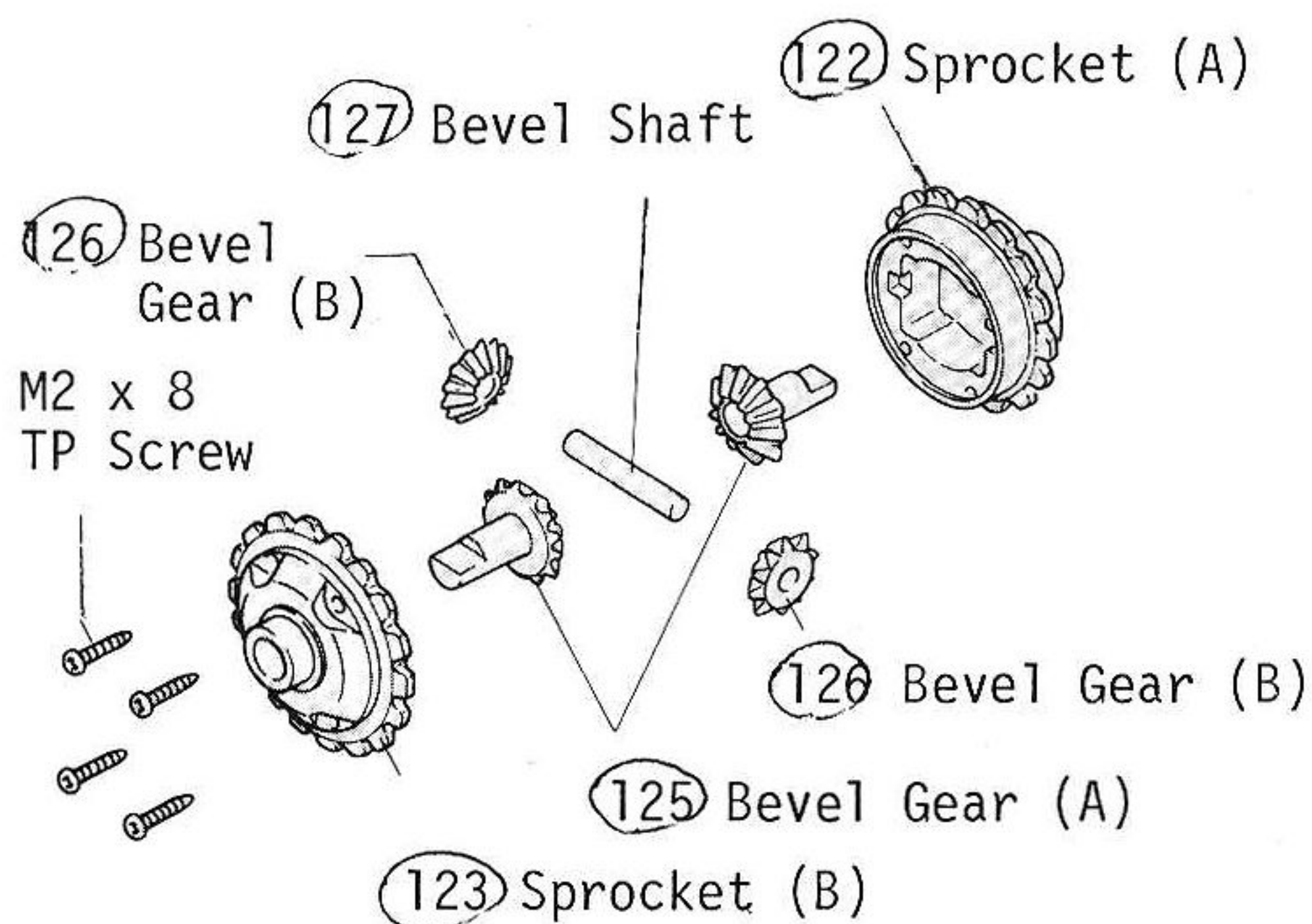
- *After a run of the radio controlled car, remove the Ni-cad battery from the car and store it separately.
- *When you have finished running the car, clean dirt off the car.
- *Turn off the switches of the radio control units without fail.
- *Apply grease on the moving parts regularly.
- *Check that all screws and nuts are tightened properly.

HANDLING THE MOTOR

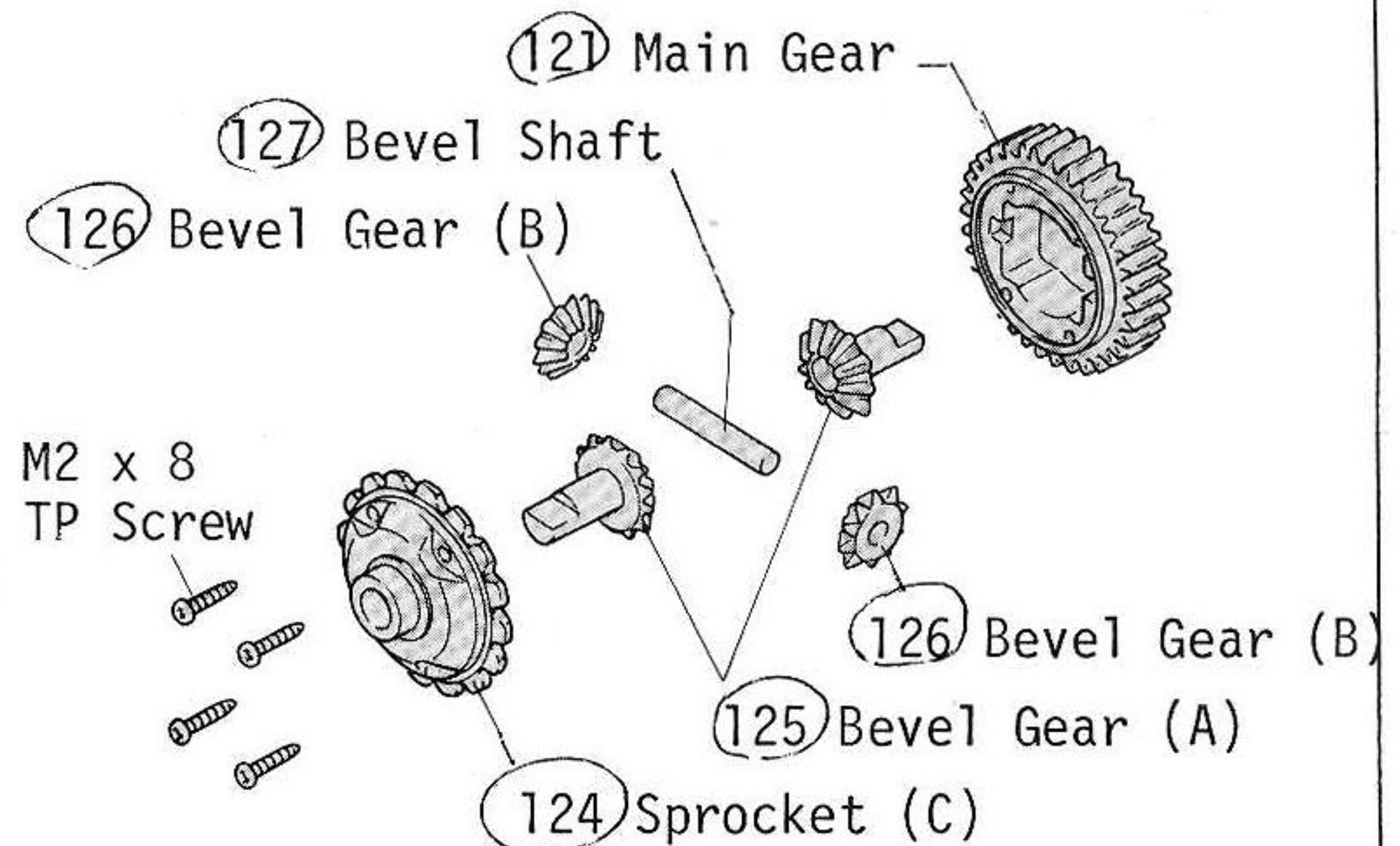
- *The motor becomes hot after each run. So continuous running may shorten its life. Do not run the car until the motor gets cool after each operation.
- *After several runs the motor may lose its power. This is because of carbon accumulated on the commutator of motor. In such a case, remove the pinion gear and run it idly for 15 minutes under 7.2 volts.
- *Oil the bearings of motor periodically.

EXPLODED VIEW OF FRONT AND REAR DIFFERENTIAL

[Front Differential]



[Rear Differential]



KEY NUMBERS FOR PARTS

No.	Parts Name	Q'ty	No.	Parts Name	Q'ty	No.	Parts Name	Q'ty
①	Tire	4	⑤7	Rear Hub (R)	1	①08	Resistor	1set
②	Wheel (1)	4	⑤8	Sus. Shaft (C)	2	①09	Front Bumper	1
③	" (2)	4		(Black Color)		①10	Drive Washer	4
④	" (3)	4	⑤9	Rear Sus. Arm	2	①11	Strap (S)	9
⑤	8ø x 14 Bearing	4	⑥0	Sus. Shaft (D)	2	①12	Ni-cad Strap	2
⑥	Joint	4	⑥1	Rear Sus. Strut	1	①13	Steering Rod	1
⑦	Allen Wrench (2mm)	1	⑥2	Radio Plate	1	①14	Driver	1
⑧	Stabilizer End Ball	4	⑥3	4ø x 8 Bearing	2	①15	Strap (L)	1
	(Gold Color)	4	⑥4	Center Gear	1	①16	Radio Plate Support	1
⑨	Gear Box (L)	1	⑥5	O Ring	1	①17	Radio Post Screw	2
⑩	Final Pinion Gear	1		(Black Color)	1	①18	M2.6 Pivot Ball	4
⑪	Gear box (R)	1	⑥6	Hook Pin	4		(Black Color)	
⑫	Center Gear Shaft	1	⑥7	Pinion Gear (9Z)	1	①19	5ø x 10 Bearing	10
⑬	Rear Plate (R)	1	⑥8	Bearing Collar	1	①20	Front Stabilizer	1
⑭	" (L)	1		(Nylon)		①21	Main Gear	1
⑮	Counter Shaft	1	⑥9	Motor Cover	1	①22	Sprocket (A)	1
⑯	M3 Pivot Ball	8	⑦0	Wing	1	①23	" (B)	1
	(Silver Color)		⑦1	Shock Oil	1	①24	" (C)	1
⑰	Rear Shock Stay	1	⑦2	Front Shock Case	2	①25	Bevel Gear (A)	4
⑱	Gear Box Hatch	1	⑦3	Rear Shock Case	2	①26	" (B)	4
⑲	Front Sus. Plate	1	⑦4	Shock Piston	4	①27	Bevel Shaft	2
⑳	Under Guard	1	⑦5	Front Shock Shaft	2	①28	Battery Holder	2
㉑	Front Support	1	⑦6	Rear Shock Shaft	2	①29	Bulk Head (L)	1
㉒	Main Chassis	2	⑦7	Shock O Ring	8	①30	" (R)	1
㉓	Front Side Plate	2	⑦8	Shock Collar	4	①31	5ø Shim	4
㉔	Front Upper Pivot (L)	1		(White Color)		①32	Body Washer	2
㉕	" (R)	1	⑦9	Plastic Washer	4	①33	Decal	1
㉖	Radio Post (R)	2		(Black color)		①34	Regulator	1
㉗	" (F)	2	⑧0	Spring Holder	4	①35	Connector	1
㉘	Chain Guide (B)	1	⑧1	Shock End	4	①36	Silicon Grease	1
㉙	" (C)	1	⑧2	Spring Stopper	4	①37	Rear Stabilizer	1
㉚	Chain	1	⑧3	Diaphragm	4	①38	Body	1
㉛	Ball Nut	4	⑧4	C Ring	4	①39	Rear Hub (L)	1
㉜	Saver Shaft (A)	1	⑧5	Joint Collar	2	①40	Motor Cord	1set
㉝	" (B)	1	⑧6	Gear Cover	1	①41	Front Spring	2
㉞	Servo Saver (A)	1set	⑧7	Gear Cover Seal	1	①42	Rear Spring	2
㉟	" (B)	1	⑧8	Servo Spacer (A)	1	①43	Chassis Guard	1
㊱	M2 Shaft	1	⑧9	" (B)	1	①44	Heat Sink (A)	1
㊲	Ball End (S)	4	⑨0	Servo Mount	1	①45	" (B)	1
㊳	King Pin	4	⑨1	Speed Control	1	①46	Motor Cleaner	1
㊴	Knuckle Arm 1 (L)	1		Spring		①47	Stabilizer Stopper	2
㊵	" 2 (R)	1	⑨2	Speed Control Nut	1	①48	Stabilizer Link (L)	2
㊶	Front Shaft	2	⑨3	Speed Control	2	①49	" (S)	2
㊷	Front Hub (L)	1		Contact Point		①50	Stabilizer Ball	4
㊸	" (R)	1	⑨4	Speed Control Stud	1	①51	Counter Gear	1
㊹	E Ring (E-2.5)	12	⑨5	Speed Control	1	①52	Limiter Spring	1
㊺	Sus. Shaft (A)	2		Pivot		①53	Motor Plate	1
㊻	(Silver Color)		⑨6	Speed Control PC	1	①54	Shock Fixing Collar	4
㊼	" (B)	2		Board			(Red Plastic)	
㊽	"		⑨7	Speed Control Horn	1	①55	Shock Cap	4
㊾	Allen Wrench (1.5mm)	1	⑨8	Driver Post	1	①56	Washer(A) 3øx10	1
㊿	Front Sus. Arm	2	⑨9	Chain Cover (A)	1		(Black Color)	
1	5.8ø Ball	4	①00	Chain Guide (A)	1	①57	Wahser(B) 7øx11	1
2	Ball End (L)	12	①01	" (D)			(Gold Color)	
3	Upper Rod	4	①02	Chain Cover (B)	1	①58	M3 Nylon Nut	1
4	Front Shock Stay	1	①03	Front Strut Plate	1		(Gold Color)	
5	Swing Shaft	4	①04	Servo Rod	1	①59	Allen Wrench(2.5mm)	1
6	Shock Bush	4	①05	Saver Spacer	1	①60	Body Pin	2
7	Tie Rod	2	①06	Double Sided Tape	1			
8	Rear Shaft	2	①07	Antenna Pipe	1			

PURCHASING PARTS FOR YOUR KIT

You can purchase replacement and optional parts for your kit. All of the part identified by key numbers (see page for a complete list) are usually not available singularly, but we offer these parts in convenient parts "packs" which can be purchased separately. To figure out which parts pack you need, find the key number for that part within the manual. Then consult our parts pack guide, below. When referring to the parts you need, always use the Parts Pack Number. For instance, if you need a Center Gear Shaft (Key #12) ask your dealer for Kyosho Parts Pack OT-7 (Rear Plate Set).

Parts Pack #	Description	Includes These Key Numbers
OT- 1	Gear Box	9 11 129 130 x 1
OT- 2	Chain	30 x 1
OT- 4	King Pin	38 x 4
OT- 5	Joint	6 x 2
OT- 6	Swing Shaft	53 x 2
OT- 7	Rear Plate Set	12 13 14 x 1 85 x 2
OT- 8	Front Side Plate	23 x 2
OT-11	Suspension Shaft	45 46 58 60 x 2
OT-12	Radio Plate	62 x 1
OT-14	Under Guard	20 x 1
OT-15	Front Bumper	109 x 1
OT-16	Knuckle Arm	39 40 x 1
OT-17	Front Shaft	41 x 2
OT-18	Rear Shaft	56 x 2
OT-19	Drive Washer	110 x 4
OT-20	Main Chassis	22 x 2
OT-21	Screw Set	Screw, Nut, Wrench Set
OT-22	Body Washer	132 x 10
OT-26	Driver	98 114 x 1
OT-27	Sprocket, Gear Set	64 121 122 123 124 x 1
OT-28	Differential Gear Set	127 x 2 125 126 x 1
OT-29	O Ring	65 x 10
OT-31	M3 Pillow Ball (Pivot Ball)	16 x 10
OT-32	5.8ø Ball	49 x 10
OT-33	Ball Nut (M2.6)	31 x 10
OT-34	Plate Set	19 61 88 89 103 105 x 1
OT-35	Upper Rod Set	36 x 1 104 x 2 37 51 x 4 50 x 8
OT-36	M2.6 Pivot Ball	118 x 10
OT-37	Cord Set	140 x 1
OT-38	Silicon Gress (2pcs.)	136 x 2
OT-39	E Ring (2.5)	44 x 10
OT-41	Final Pinion Gear	10 x 1
OT-42	Servo Saver Set	32 33 35 x 1 34 x 1set
OT-45	Rear Hub	57 139 x 1
OT-46	Chain Guide Set	28 99 100 102 x 1
OT-48	Battery Holder Set	18 29 101 x 1 26 27 128 x 2
OT-49	Gear Cover Set	21 86 87 90 116 x 1
OT-54	Stabilizer Set	120 137 x 1 147 148 149 x 2 8 150 x 4
OT-55	Front Hub Set	24 25 42 43 x 1
OT-57	Special Shock Stay	17 52 x 1
OT-66	Low Profile Tire(Pin Type)	1 x 2
OT-67	Wheel(For Low Profile Tire)	2 3 4 x 2
OT-77	Decal(Salute)	133 x 1
OT-69	Suspension Arm Set (Hardened)	48 59 x 2
OT-73	Body, Wing Set (Salute)	70 138 x 1
OT-71	Chassis Guard	143 x 1
OT-72	Heat Sink for Resistor	144 145 x 1
OT-73	Motor Cleaner Set	146 x 2 153 x 1
OT-74	Limiter Gear Set	15 151 152 156 157 x 1 158 x 2
OT-75	Connector (for 8.4V)	135 x 1

<u>Parts Pack #</u>	<u>Description</u>	<u>Includes These Key Numbers</u>
SC-40	Motor Cover	69 x 1
SC-46	Double Sided Tape	106 x 1
SC-67	Speed Control Set	91 92 94 95 96 97 x 1 93 x 2
SC-78	Speed Control PC Board	96 x 1
SC-79	Speed Control Contact Point	93 x 2
SC-89	Tierod	55 x 2 50 118 x 4
SC-101	Rear Shaft Shim	131 x 10
SC-105	Resistor	108 x 1
EF-37	Strap (S)	111 x 6
EF-38	" (M)	115 x 6
EF-39	Ni-Cad Strap	112 x 6
EP-22	Hook Pin	66 x 5
LD-76	Shock Bush	54 x 10
SD-79	Antenna Pipe	107 x 5
1911	8ø x 14 Bearing	5 x 2
1901	Ball Bearing 5ø x 10	119 x 2
1903	" 4ø x 8	68 x 1 63 x 2
W-5001	Pressure Oil Shock (S), Front	72 74 75 78 79 80 81 82 83 84 141 154 x 2
W-5002	" " " (L), Rear	73 74 76 78 80 81 82 83 84 142 154 x 2
W-5009	Hard Pinion Gear 9T	67 x 1
1990	Regulator	134 x 1 (for 7.2V . 8.4V)
1971	Bearing Set	63 x 2 119 x 10

OPTIONAL PARTS

OT-64	Speical Wing (Silvered)	Polycaborante
OT-65	Wing Stay Set	For attachment of OT64
OT-76	Hard Final Pinion Gear	Hardened Alumite
W-0101	Motor Guard	Case of Protecting your motor.
W-5031	Low Profile Tire Allround Type	For Hard Truck
W-5032	Low Profile Tire, High Grip "	For Soft Truck
W-5010	Hard Pinion Gear 10T	Gear Ratio (12.4 : 1)
W-5011	Hard Pinion Gear 11T	Gear Ratio (11.2 : 1)
1951	Shock Oil Set (S.M.H)	3 Different Weights
OT-23	Pinion Gear 12T	Gear Ratio (10.3 : 1)
OT-50	" 13T	" (9.5 : 1)
OT-51	" 14T	" (8.8 : 1)
OT-56	Light Weight Aluminum TP Screw Set	Tapping (Aluminum), Nylon Nut Set
SC-80	Speed Control(4 speed Registor)	4 Forward Speeds
LM-15	Cooling Plate	For Le Mans Motor
OT-47	Front Hub Set	For better steering
W-5021	Low Profile Wheel	Silvered
1863	Sponser Sticker	
W-0102	Side Guard	For Protecting Rear Sus. Arm
1952	Differential Oil	
W-1001	High Corbon Plate 1.7	For Material of Mecha Plate
W-0103	Gold Plate Set	For Ornament of Your Model

Bag No.	Key No.	Parts Name	Q'ty		Bag No.	Key No.	Parts Name	Q'ty	
Blister	(1)	Spike Tire	4	[47]	TOP-4	(6)	Joint	4	[1]
	(2)	Wheel (1)	4	[47]		(12)	Center Gear Shaft	1	[3]
	(5)	8ø x 14 Bearing	4	[1]		(15)	Counter Shaft	1	[4]
	(8)	Stabilizer End Ball(Gold Color)	4	[16][232]		(16)	M3 Pivot Ball (Silver Color)	2	[5]
	(48)	Front Sus. Arm	2	[16]		(31)	Ball Nut	4	[13][36]
	(59)	Rear Sus. Arm	2	[23]		(32)	Saver Shaft(A)	1	[14]
	(63)	4ø x 8 Bearing	2	[27]		(33)	" (B)	1	[14]
	(119)	5ø x 10 Bearing	10	[2][4]		(38)	King Pin	4	[15]
				[15][23]		(49)	5ø Ball	4	[17][25]
	(120)	Front Stabilizer	1	[7]		(53)	Swing Shaft	4	[17][25]
	(135)	7N-8.4V Connector	1	[38]		(64)	Center Gear	1	[27]
	(137)	Rear Stabilizer	1	[45]		(68)	Bearing Collar	1	[27]
	(144)	Heat Sink (A)	1	[35]		(85)	Joint Collar	2	[3][12]
	(145)	" (B)	1	[35]		(151)	Counter Gear	1	[4]
	(147)	Stabilizer Stopper	2	[45]		(152)	Limiter Spring	1	[4]
	(148)	Stabilizer Link(L)	2	[45]		(156)	Washer (A)(Black)	1	[4]
	(149)	" (S)	2	[44]		(157)	" (B)(")	1	[4]
	(150)	Stabilizer Pivot Ball	4	[44][45]		(158)	M3 Nylon Nut (Gold Color)	1	[4]
		M2.6 x 6 Bind Screw	2	[45]			3ø Washer	1	[4]
		M2.6 Nut	2	[45]			Saver Shaft (C)	1	[14]
		M3 x 3 Set Screw	4	[44][45]			Servo Saver Spring	1	[14]
	Assembly	Front Diff.	1	[1]	TOP-5	(13)	Rear Plate (R)	1	[3]
	"	Rear Diff.	1	[1]		(14)	" (L)	1	[3]
	"	Presser Shock(S)	2	[18]		(17)	Rear Shock Stay	1	[5]
	"	" (L)	2	[18]		(19)	Front Sus. Plate	1	[6]
						(23)	Front Side Plate	2	[10]
	(9)	Gear Box (L)	1	[2]	TOP-5	(52)	Front Shock Stay	1	[17]
	(10)	Fainal Pinion	1	[2]		(61)	Rear Sus. Strut	1	[24]
	(11)	Gear Box (R)	1	[2]		(99)	Chain Cover (A)	1	[11]
	(30)	Chain	1	[2]		(102)	" (B)	1	[42]
	(41)	Front Shaft	2	[15]		(103)	Front Strap Plate	1	[33]
	(56)	Rear Shaft	2	[23]	TOP-6	(105)	Saver Spacer	1	[14]
	(67)	Pinion Gear (9Z)	1	[28]		(18)	Gear Box Hatch	1	[5]
	(71)	Shock Oil	1	[19]		(21)	Front Support	1	[7]
	(74)	Shock Piston	4	[18]		(24)	Front Upper Pivot (L)	1	[10]
	(77)	O Ring	8	[18]		(25)	" (R)	1	[10]
	(154)	Shock Fixing Collars(Red Color)	4	[21][26]		(26)	Rear Radio Post	2	[8]
	(78) (79)	Plastic Washer		[18]		(27)	Front Radio Post	2	[10]
		White	4			(28)	Chain Guide (B)	1	[11]
		Black	4			(29)	" (C)	1	[11]
	(83)	Diaphragms	4	[19]		(34)	Servo Saver (A)	1	[13]
	(84)	C Ring	8	[18]		(35)	" (B)	1	[13]
	(110)	Drive Washer	4	[48]		(39)	Knuckle Arm 1 (L)	1	[15]
	(129)	Bulk Head (L)	1	[6]		(40)	" 2 (R)	1	[15]
	(130)	" (R)	1	[6]		(42)	Front Hub (L)	1	[15]
	(136)	Silicon Grease	1			(43)	" (R)	1	[15]
	(159)	Allen Wrench(2.5mm)	1	[5][17]		(57)	Rear Hub (R)	1	[23]
	(44)	E Ring (E-2.5)	8	[18](4pcs. Spare)		(86)	Gear Cover	1	[29]
		Cap Bolt M3x18	4	[5][17]		(90)	Servo Mount	1	[33]
		Screw Rock	1			(100)	Chain Guide (A)	1	[32]
						(101)	" (D)	1	[32]
						(109)	Front Bumper	1	[46]
						(116)	Radio Plate Support	1	[33]
TOP-3	(3)	Wheel (2)	4	[47]					
	(4)	Wheel (3)	4	[47]					

Bag No.	Key No.	Parts Name	Q'ty		Bag No.	Key No.	Parts Name	Q'ty	
	128	Battery Holder	2	[30]		114	Driver	1	[49]
	139	Rear Hub (L)	1	[23]		138	Body	1	[49]
	16	M3 Pivot Ball	6	[15][23]	Others	133	Decal	1	
	36	M2 Shaft	1	[14]		70	Wing	1	[50]
	37	Ball End (S)	2	[14]			Spare Screw	1bag	
	45	Sus. Shaft (A) (Silver Color)	2	[16]		7	Allen Wrench 2mm	1	
	46	" (B)	2	[16]		36	M2 Shaft	1	
	(")					44	E Ring E-2.5	4	
TOP-7	50	Ball End (L)	12	[17][22]			" E-5.0	1	
	51	Upper Rod	4	[17][25]		47	Allen Wrench 1.5mm	1	
	54	Shock Bush	4	[21][26]		66	Hook Pin	4	
	55	Tie Rod	2	[22]		92	Speed Control Nut	1	
	58	Sus. Shaft (C) (Black Color)	2	[23]			M8		
	60	" (D)	2	[24]		117	Radio Post Screw	2	
	118	M2.6 Pivot Ball (Black Color)	4	[13][15]		131	Shim 5ø	4	
	20	Under Guard	1	[7]			Set Screw M3 x 3	1	
	22	Main Chassis	2	[8]			" M3 x 4	4	
	62	Radio Plate	1	[30]			(Silver Color)		
	69	Motor Cover	1	[28]			" M4 x 4	5	
TOP-8	107	Antenna Pipe	1	[43]			Round Head Screw	13	
	112	Ni-Cad Strap	2	[53]			" M3 x 8		
	143	Chassis Guard	1	[34]			" M3 x 10	2	
	146	Motor Clener	1	[28]			" M3 x 15	6(4pcs. Spare)	
	153	Motor Plate	1	[28]			Bind Screw M2.6x6	9	
	37	Ball End (S)	2	[40][41]	TOP-1		" M2.6x15	2	
	65	O Ring (P-3) (Black Color)	1	[27]			" M3 x 45	4	
	87	Gear Cover Seal	1	[29]			" M4 x 8	1	
	88	Servo Spacer (A)	1	[30]			Screw, Gold	2	
	89	" (B)	1	[30]			Color M3 x 10		
	91	Speed Control Spring	1	[38]			Round Head TP Screw		
	93	Speed Control Contact Point	2	[36]			" M2 x 8	26(4pcs. Spare)	
	94	Speed Control Stud	1	[38]			" M3 x 8	8	
	95	Speed Control Pivot	1	[36]			" M3 x 10	6	
	96	Speed Control PC Board	1	[35]			" M3 x 12	9	
TOP-9	97	Speed Control Horn	1	[36]			" M3 x 16	2	
	98	Driver Post	1	[38]			" M3 x 18	4	
	104	Speed Control Rod	1	[40]			Bind TP Screw	4	
	106	Double Sided Tape	1	[41]			" M2.6 x 8		
	108	Resistor	2	[35]			Flat Head TP Screw	7	
	111	Nylon Strap (S)	7	[30][33]			Screw M3 x 6		
	113	Steering Rod	1	[41]			Nut M2.6	2	
	115	Nylon Strap (L)	1	[42]			" M3	10	
	132	Body Washer	2	[53]			Flange Nut M4	1	
	134	Regulator	1	[37]			Nut M3	5	
		BEC Coard	1	[39]			Gold Color		
							Nylon Nut M3	6	
							" M4	4	
							Washer M2.6	4	
							" M3	6(Spare)	
							" M4	2	
							Spring Washer M3	4	

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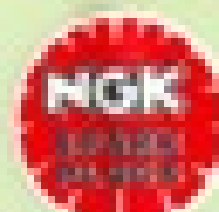
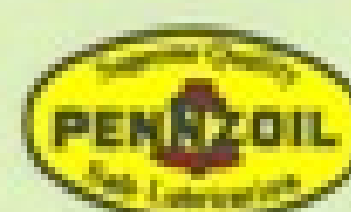
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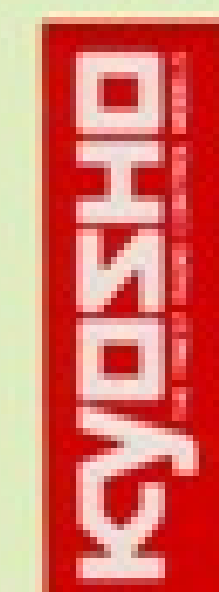


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**FOUR WHEEL DRIVE
FOUR WHEEL DRIVE**

4WD OFF-ROAD

4WD OFF-ROAD

4WD OFF-ROAD

4WD OFF-ROAD

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TURBO  **OPTIMA**

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OFF-ROAD CHAMPIONSHIP GRANDPRIX







RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY

RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY

FOUR WHEEL DRIVE
FOUR WHEEL DRIVE

FOUR WHEEL DRIVE
FOUR WHEEL DRIVE

POWERED by **LE MANS**
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RACING MOTOR
RACING MOTOR

LE MANS

LE MANS

POWERED by **LE MANS**
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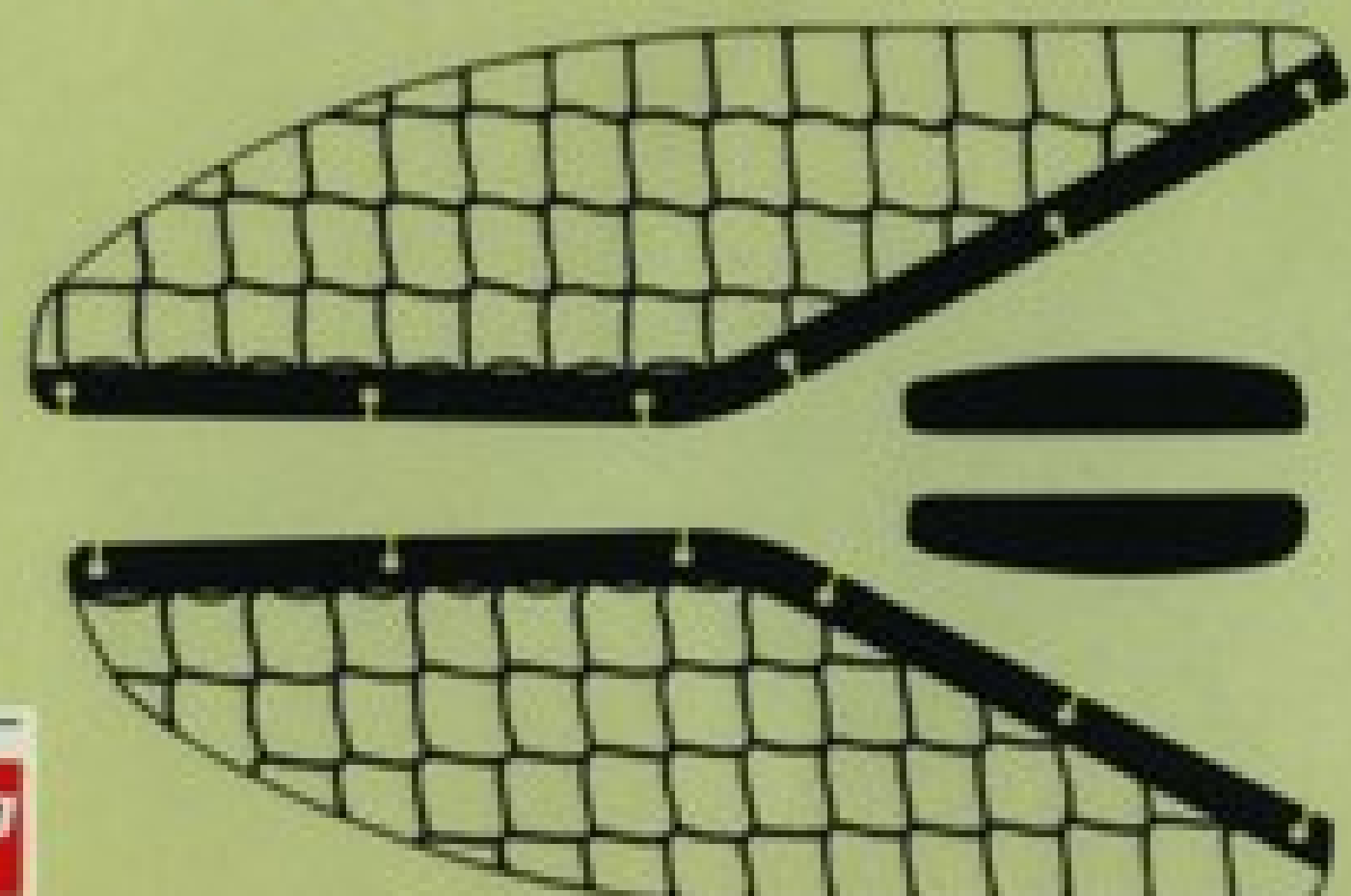
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