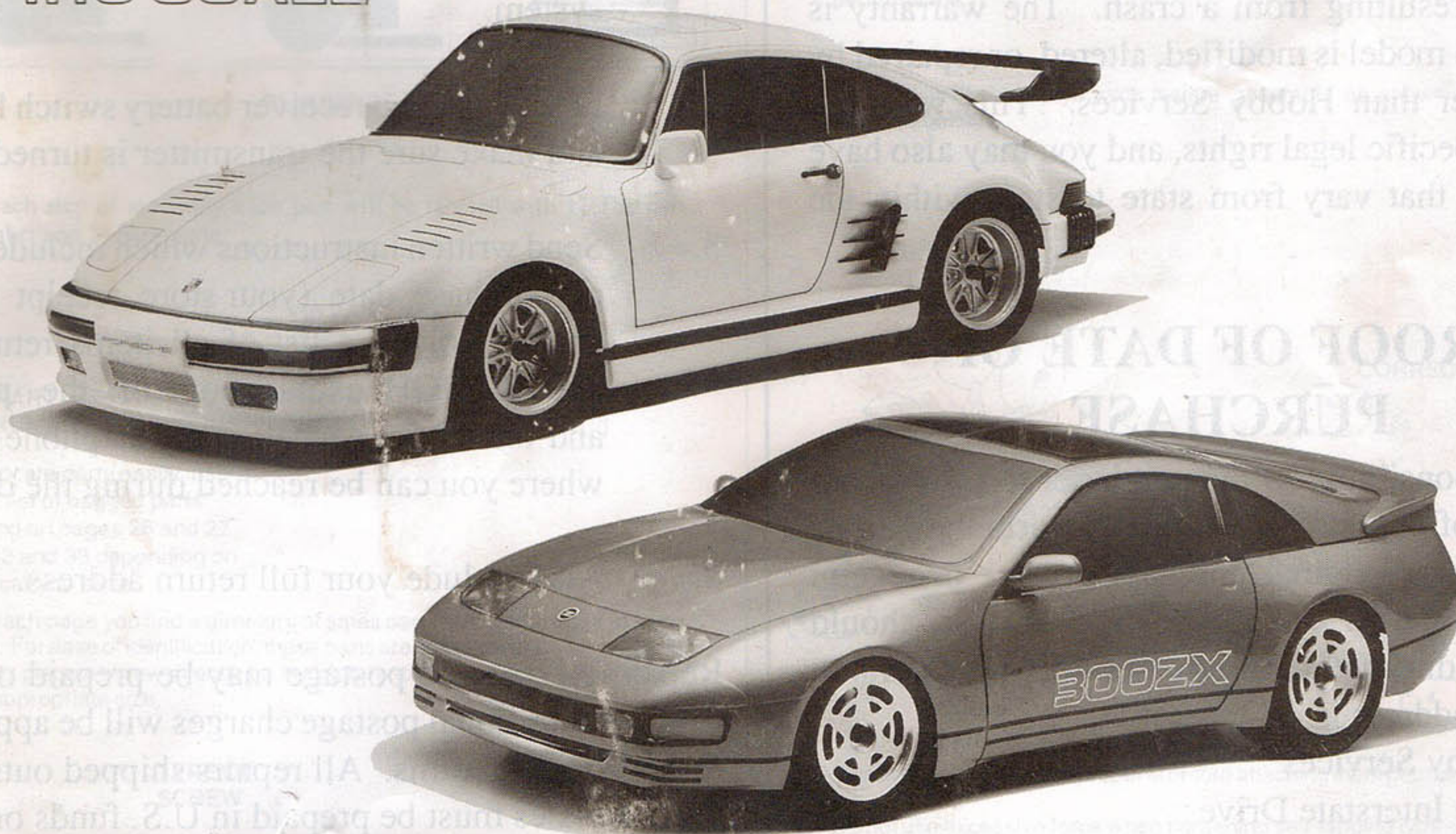


RADIO CONTROLLED ELECTRIC POWERED CAR

KYOSHO SCALE CAR SERIES

- True to life scale appearance is a knock-out at the track!
- Based on the competitive and champion Ultima chassis.
- Features 4-wheel independent suspension with oil-filled shocks for excellent handling.
- Many hop-up parts are available.
- Low center of gravity for great cornering and top straight away handling.
- Fully adjustable suspension can be set up for almost any track.

1:10 SCALE



KYOSHO[®]
THE FINEST RADIO CONTROL MODELS

WARRANTY INFORMATION

90 Day Limited Warranty

It is expressly understood that the standard replacement warranty of the seller, a copy of which is annexed to and made part of this agreement, shall be in lieu of any and all other warranties, including the warranties of merchantability and fitness for use. The sole responsibility of the seller shall be in its replacement obligations contained in this standard warranty.

Kyosho's "Scale Car" is warranted to the original owner to be free of defects in parts or workmanship for a period of 90 days from the date of purchase. During this time Kyosho's authorized U.S. repair facility, Hobby Services, will repair or replace at their option any defective parts without charge.

Limit of our Liability: Our liability under this warranty is limited to the repair or replacement of defect or defective parts by Hobby Services and does not include shipping expense.

Exclusion and/or Voidance of Warranty: This warranty does not apply to damage or defects resulting from misuse, abnormal service, damage in shipment, or damage resulting from a crash. The warranty is voided if the model is modified, altered, or repaired by anyone other than Hobby Services. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state within the U.S.

PROOF OF DATE OF PURCHASE

It is the responsibility of the purchaser to show proof of the date of purchase if a model's warranty is to be honored. Your original purchase invoice or receipt will suffice for this. Your Kyosho "Scale Car" should be returned directly to Hobby Services for warranty work. The address is:

Hobby Services
1610 Interstate Drive
Champaign, Illinois 61821
Attn: Warranty Department
Phone: 217-398-0007

SHIPPING INFORMATION

Please follow steps 1 through 4 in "Repair Service" when returning a model to Hobby Services. (See Below).

We are sorry, but we cannot be responsible for crash damage and/or loss of kits, engines, accessories, etc.

REPAIR SERVICE

Should your model be past the 90 day warranty period, or should your kit be voided or excluded from warranty coverage, repairs are available for a nominal cost through Kyosho's authorized U.S. repair facility, Hobby Services. Since we want you to be happy with your purchase for a long time, Hobby Services employs a full time in-house service staff. They have the professional knowledge and the sophisticated equipment and parts available to service your model for years to come. When returning your model, whether for warranty or repair service, please be sure to follow the instructions below. This will help the technician troubleshoot the system, repair it, and return it to you as quickly as possible.

1. Under all circumstances, return the ENTIRE system.
2. Disconnect the receiver battery switch harness, and make sure the transmitter is turned off.
3. Send written instructions which include: proof of purchase date (your store receipt or purchase invoice), a list of all items returned, a THOROUGH explanation of the problem and the service needed, and your phone number where you can be reached during the day.
4. Also include your full return address.

Repair charges and postage may be prepaid or billed C.O.D. Additional postage charges will be applied for non-warranty returns. All repairs shipped outside the United States must be prepaid in U.S. funds only.

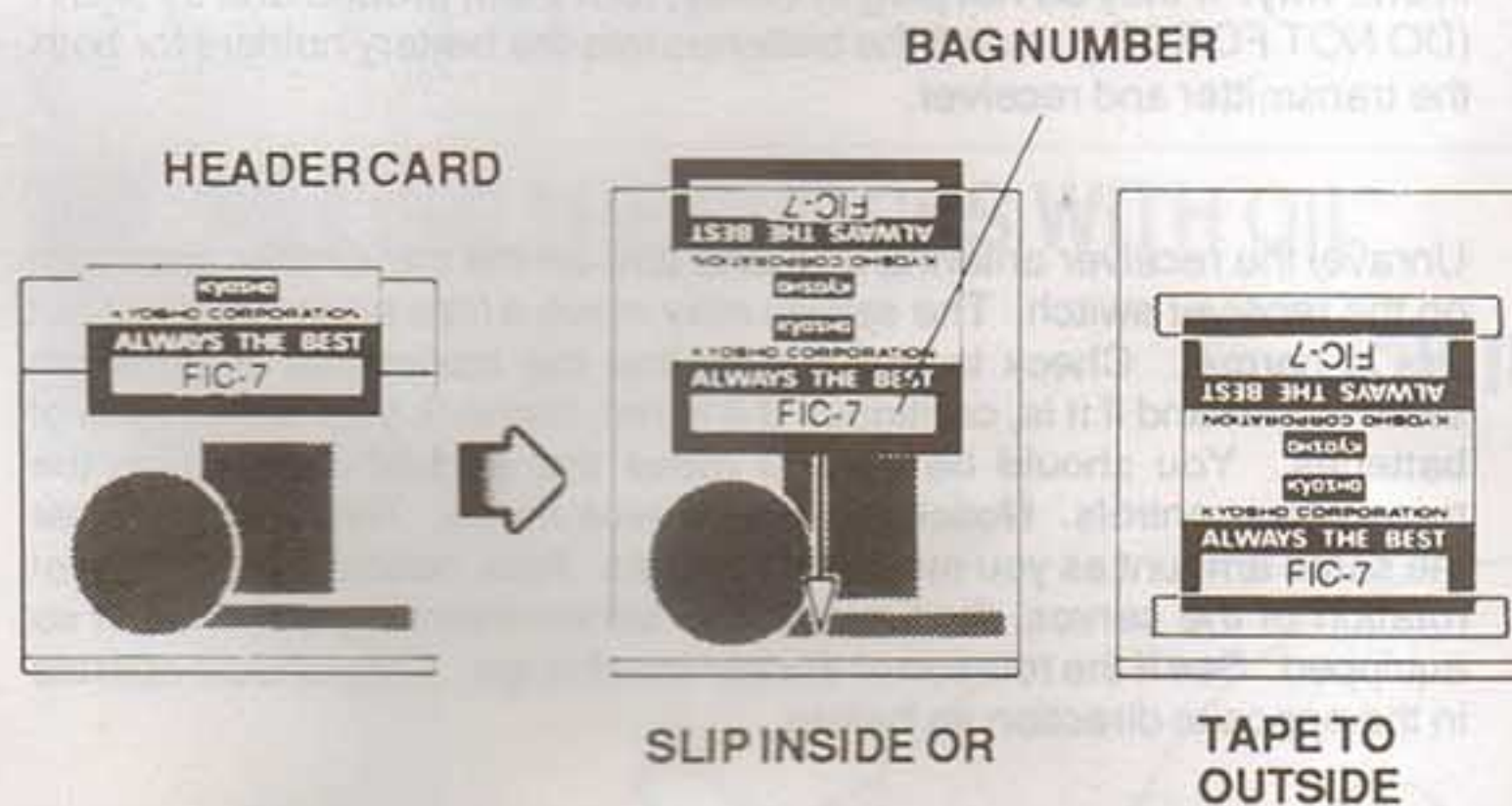
SCALE CAR SERIES

IMPORTANT! BEFORE YOU BEGIN

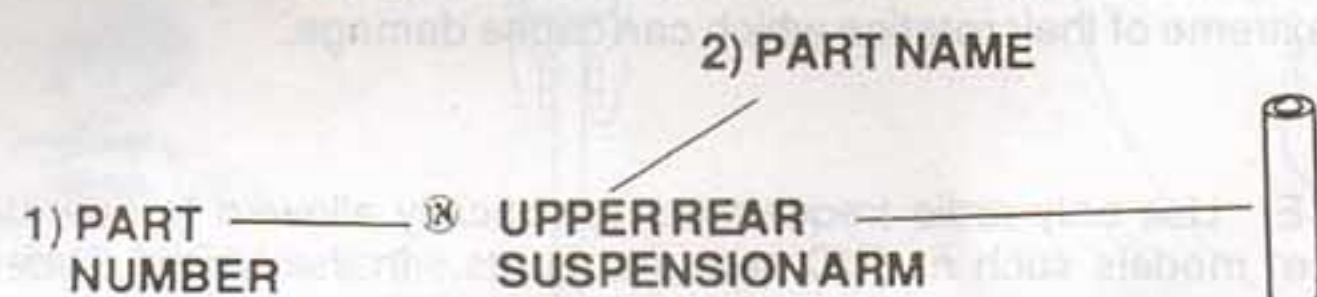
This is a sophisticated model with a large number of moving parts. Before you begin assembly, take a look through the box and these instructions carefully to decide whether or not you are ready for this challenge! If you do not think that this type of model is for you, it may be returned to the dealer as long as it is NEW and UNUSED. UNDER NO CIRCUMSTANCES CAN YOUR DEALER ACCEPT A KIT FOR RETURN IF ASSEMBLY HAS ALREADY BEGUN! If this is not what you bargained for, then go no further and return this kit to the dealer immediately. BUT, if a little maintenance doesn't bother you, and the thrill of high performance driving is for you, then don't hesitate another minute! IT IS VERY IMPORTANT TO read through this entire manual thoroughly to familiarize yourself with the parts and methods of construction used BEFORE actually starting to build.

HOW TO USE THIS MANUAL

This Kyosho instruction manual uses a unique cross reference system to help you locate all of the bagged parts. DO NOT open each bag and dump out the parts. Carefully remove the header card from the bag and discard the staple. Slip the header card into the bag or tape it to the outside of the bag so that the bag number shows. These bag numbers listed on pages 26 and 27, or 32 and 33 (depending on which car you purchased) will prove invaluable when locating parts.

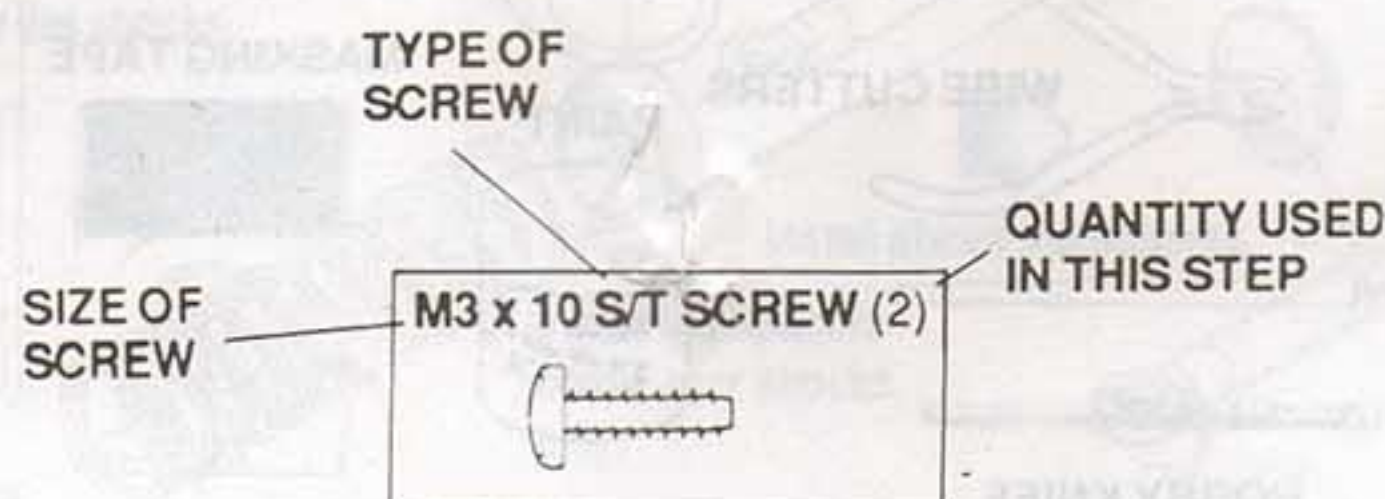


In each step of assembly each part will be labeled with 1) The part number and 2) Part name.



To locate parts easily, use the "list of bagged parts" listing on pages 26 and 27 or 32 and 33 depending on the car you have.

On each page you find a directory of small parts that will be used in each step. For ease of identification, these parts are shown actual size enabling you to place a screw directly on the picture to ensure you have selected the appropriate size.

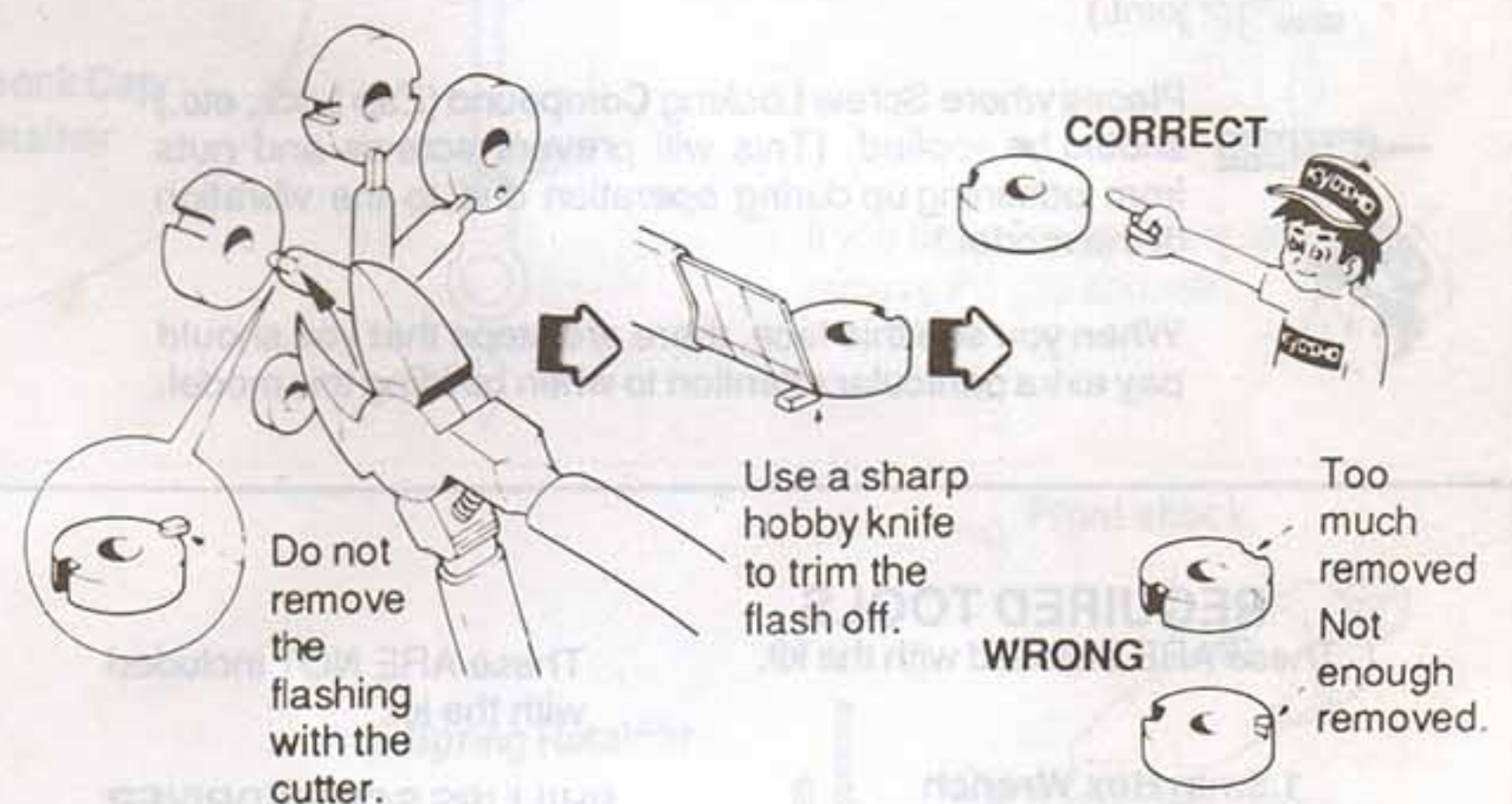


Towards the back of the manual you will find a complete list of parts used in this kit including the part number and total quantity supplied in the kit. You will find an inventory of how each part is bagged in this kit and in which step it is used. When ordering replacement or optional parts, see page 29 or 35 for a complete listing of parts and stock numbers.

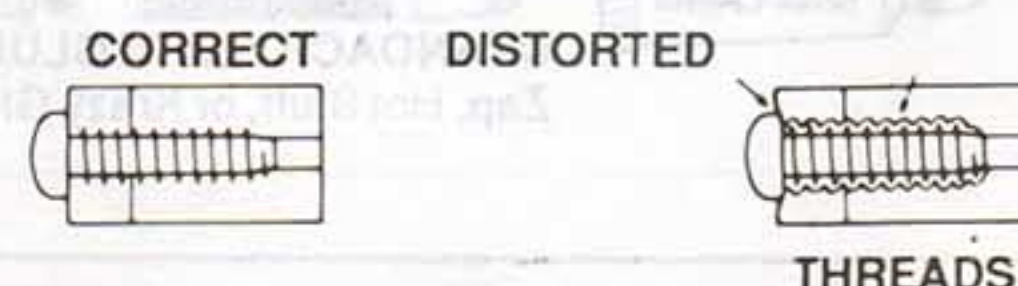
HELPFUL TIPS AND PRECAUTIONS

Some precautions need to be observed when building your car to avoid problems.

1. Use a muffin tin or egg carton to separate screws, nuts, washers, etc. This will make it easier to locate the correct part.
2. Place a mat or towel on the work surface where you will be building the kit. This will prevent parts from rolling off and will protect the work surface at the same time.
3. Try to avoid working over a shag carpet. In the event that a small part or screw should fall onto the carpet, it will be difficult to find.
4. Avoid getting products like engine cleaner or screw lock on the plastic parts. They can have a serious effect on your model.
5. Avoid running in very cold temperatures. Both plastic and metal parts become brittle at low temperatures. In addition, grease and oil become very thick causing premature wear and deficient performance.
6. Remove all flashing from parts before assembly as shown in the example below.



7. Trial fit all parts to ensure proper fit before attaching them permanently.
8. Do not use excessive force when tightening self-tapping type screws into plastic. Overtightening will cause the threaded portion of the plastic to strip. It is recommended to stop tightening when some resistance is felt after the threaded portion enters the plastic.



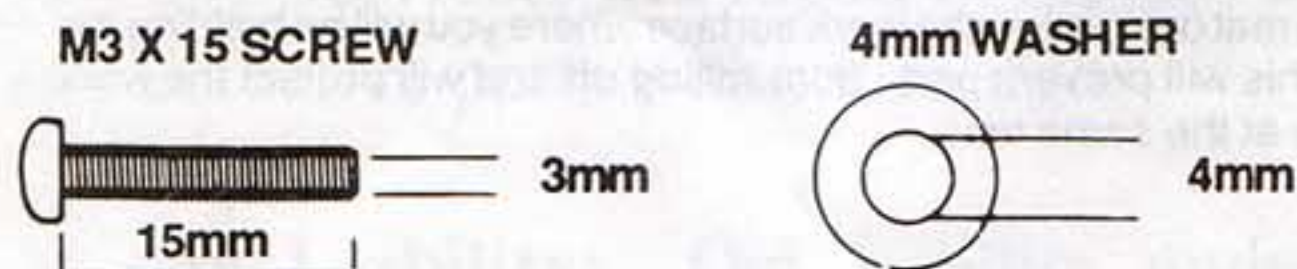
9. Ensure that all parts are well lubricated where the instructions indicate the use of grease.

10. Avoid using power screwdrivers when assembling your kit. They tend to overtighten screws.

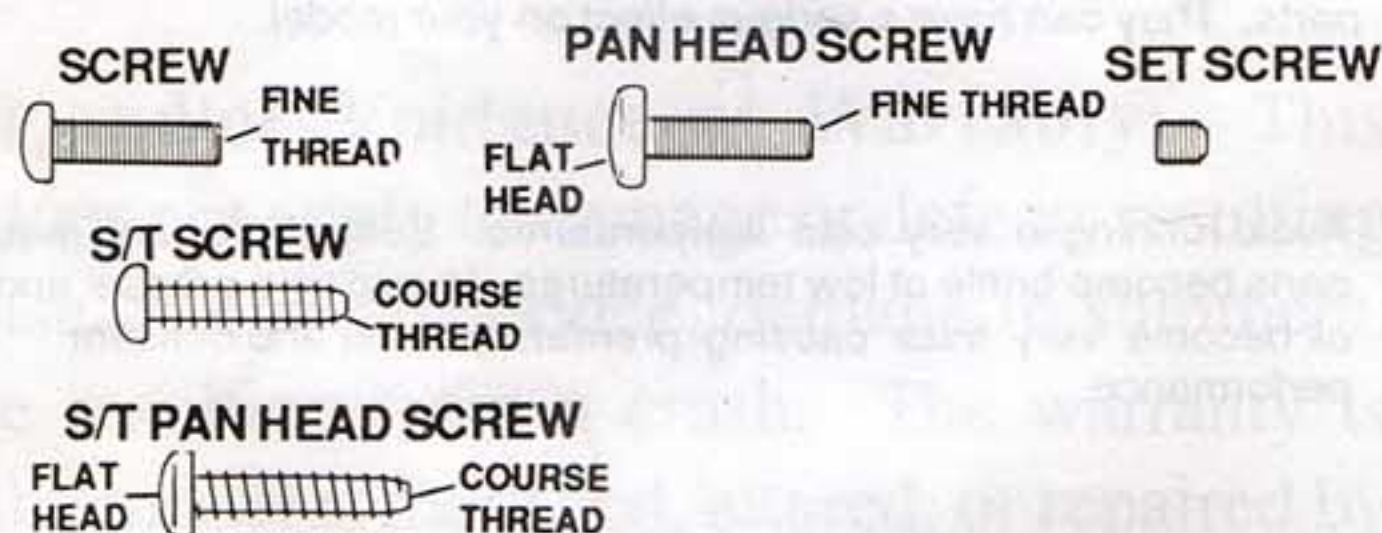
11. Take your time and read the directions thoroughly. It's not how fast you can assemble the kit but how fast it goes once it is assembled.

METRIC NUTS AND BOLTS


All nuts and bolts used throughout this kit are metric size. Therefore, some of the notations may not be familiar to you. An M3 nut is a 3 millimeter (3mm) nut. An M3 x 15 screw is 3mm diameter and 15mm long. Some round parts may be labeled as a "M4 Washer" (a washer with a 4mm inside diameter) or a "3mm Bushing" (a bushing with a 3mm inside diameter). At various points throughout the manual these parts are labeled and pictured in their actual size on the left hand side of the page. For your reference, 1 millimeter equals approximately .039 inches.

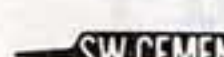



A few different types of screws are used in the construction of your model. Here are some examples and how they will be indicated in the instructions. For example, Self-Tapping will simply be S/T screw.



Certain symbols are used throughout the instructions. Pay attention to their location.

 Points where Grease/Oil should be applied. (This will reduce wear and friction and provide a smoother operating joint.)

 Places where Screw Locking Compound (Zap Lock, etc.) should be applied. (This will prevent screws and nuts from loosening up during operation due to the vibration of the model.)

 When you see this face, there are steps that you should pay extra particular attention to when building this model.

RADIO OPERATIONAL CHECK

Thoroughly read and follow the instructions supplied with your radio system. The following instructions are a general procedure for testing the operation of your radio system.

An operational check of your complete radio system prior to installation is a must. This check will locate possible defective components BEFORE they are installed in your model.



Gently plug the switch harness and servo connectors into the proper receptacles on the receiver. The connectors are polarized and will only fit one way. If they do not plug in easily, turn them around and try again (DO NOT FORCE.). Install the batteries into the battery holders for both the transmitter and receiver.

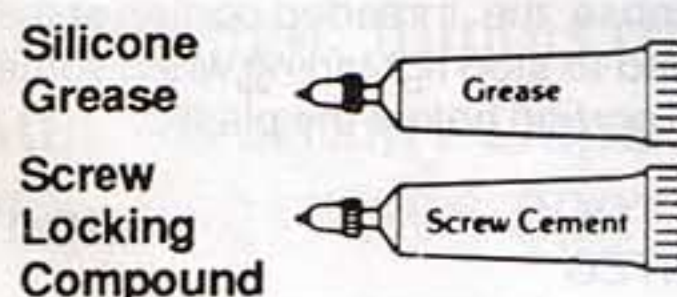
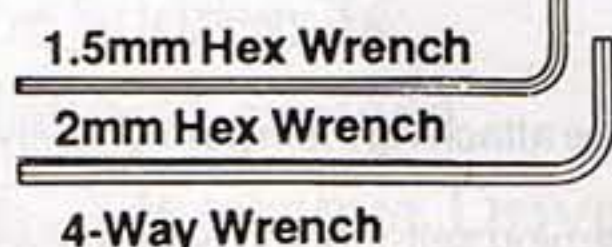
Unravel the receiver antenna wire and turn on the transmitter, then turn on the receiver switch. The servos may move a little bit at this point but this is normal. Check to make sure that the transmitter is on when switched on and if it is, continue. If it is not, recheck your installation of batteries. You should be able to move the servos' arms using the transmitter controls. Notice how the servos move. They should move the same amount as you move the controls. Also, notice the direction of rotation of the servos, then switch the servo reversing switches, if so equipped. See if the rotation of the servos change. They should operate in the opposite direction as before.

Decide whether your radio is in proper working order. If you decide that it is defective, check the warranty procedures described in the radio instruction manual. When turning off the system, always turn the receiver off first, then the transmitter. This will prevent the receiver from responding to stray signals which can cause the servos to react erratically and move to the extreme of their rotation which can cause damage.

NOTICE: Use only radio frequencies specifically allowed to operate "surface" models such as R/C cars and boats. In the United States those frequencies fall within the "75 MHz" or "27 MHz" bands. Use of any other frequencies is both illegal and dangerous.

REQUIRED TOOLS

These ARE included with the kit.



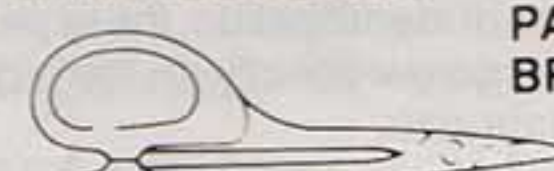
These ARE NOT included with the kit.



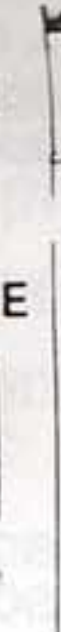
NEEDLE NOSE PLIERS



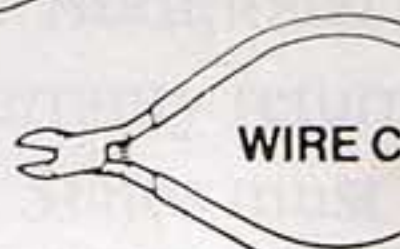
LEXAN SCISSORS



PAINT BRUSH



WIRE CUTTERS



PAINT



MASKING TAPE



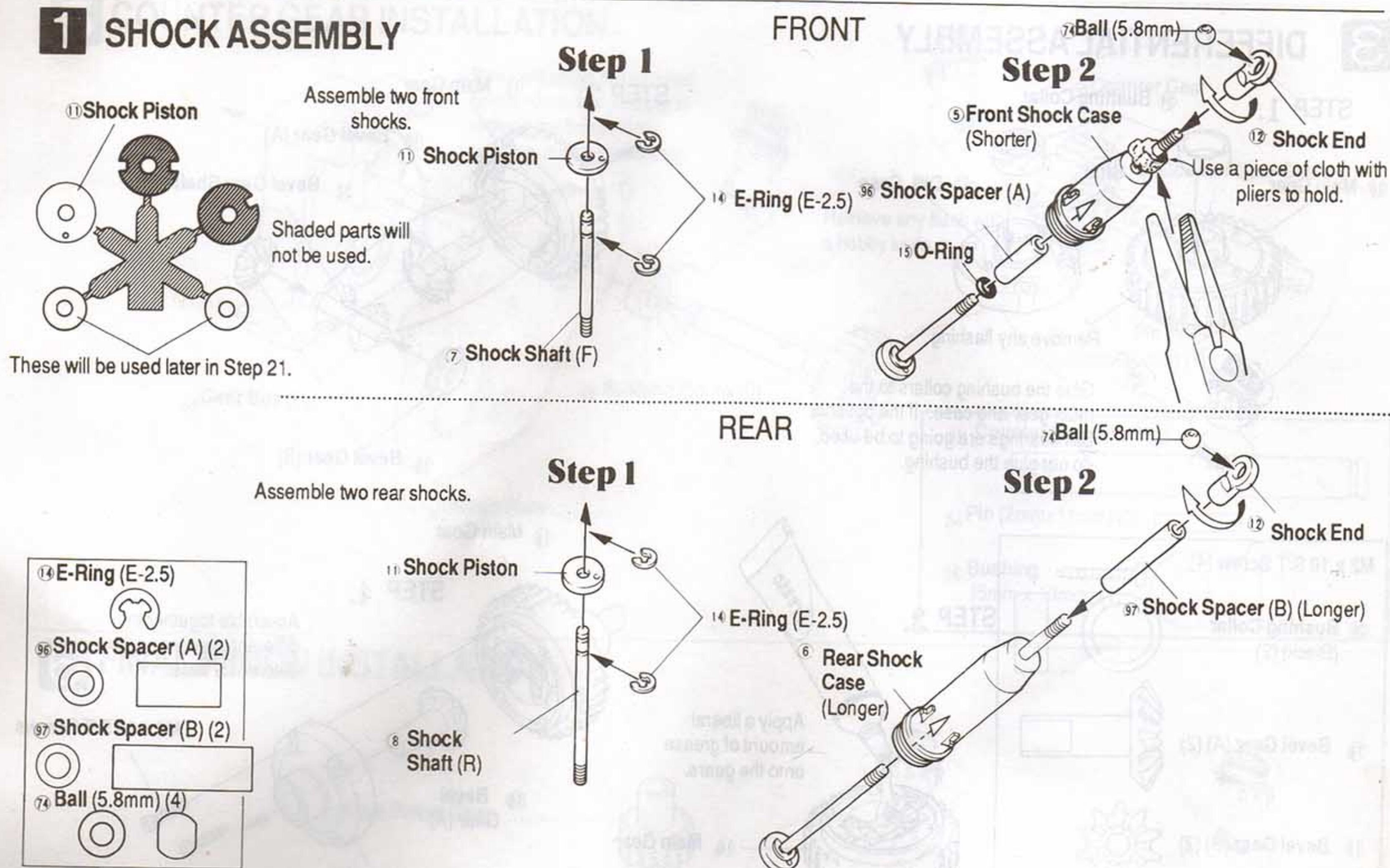
AWL



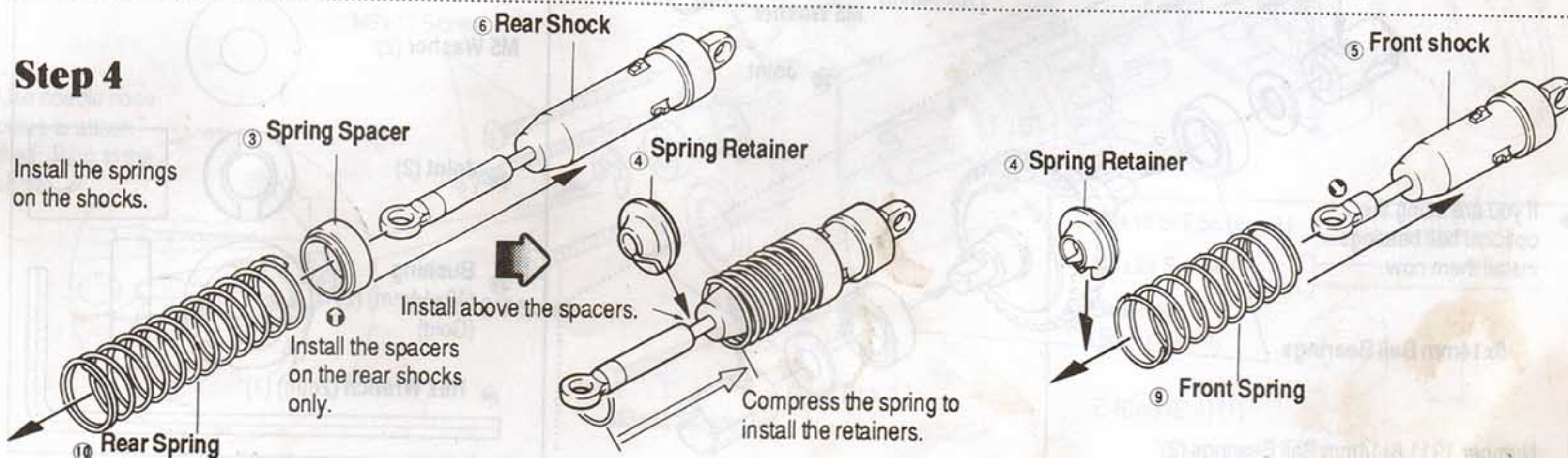
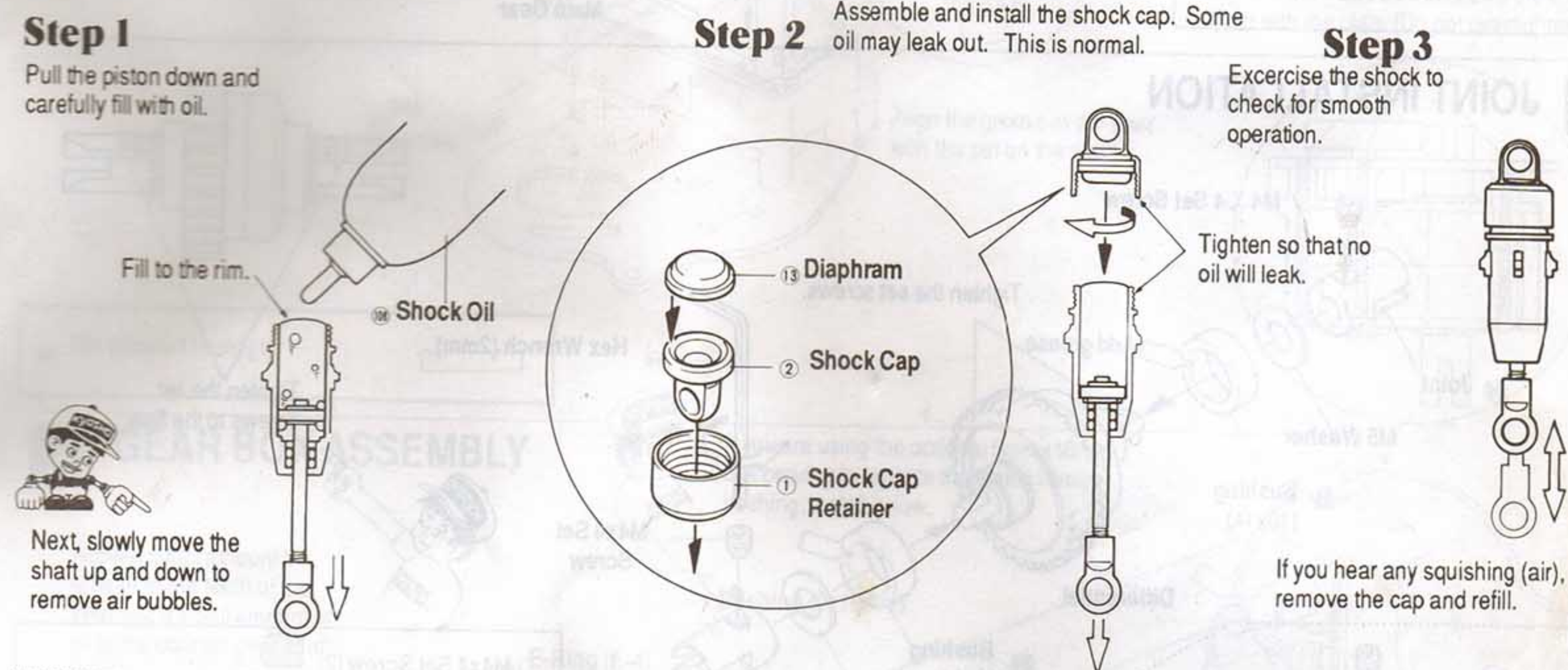
HOBBY KNIFE



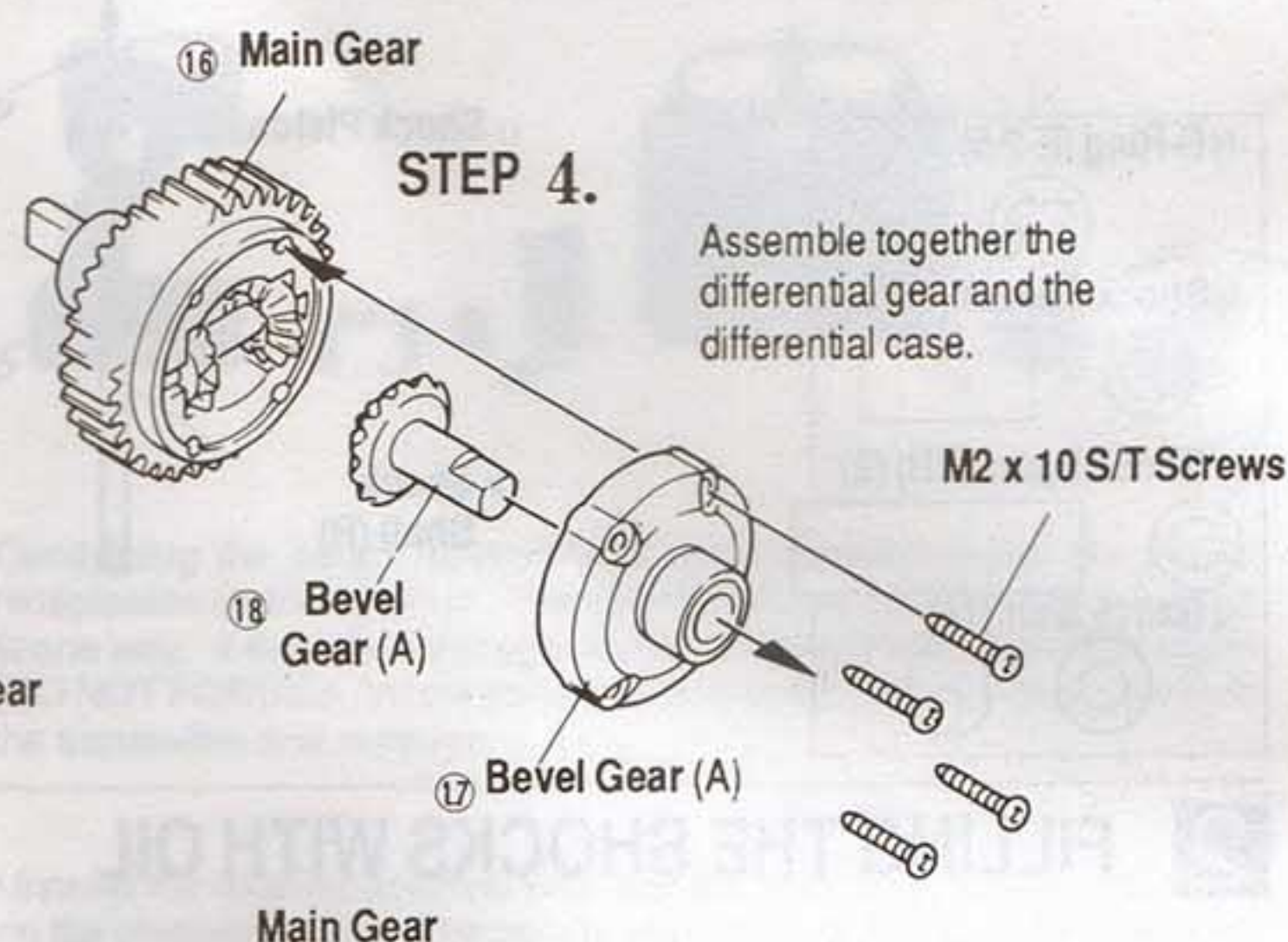
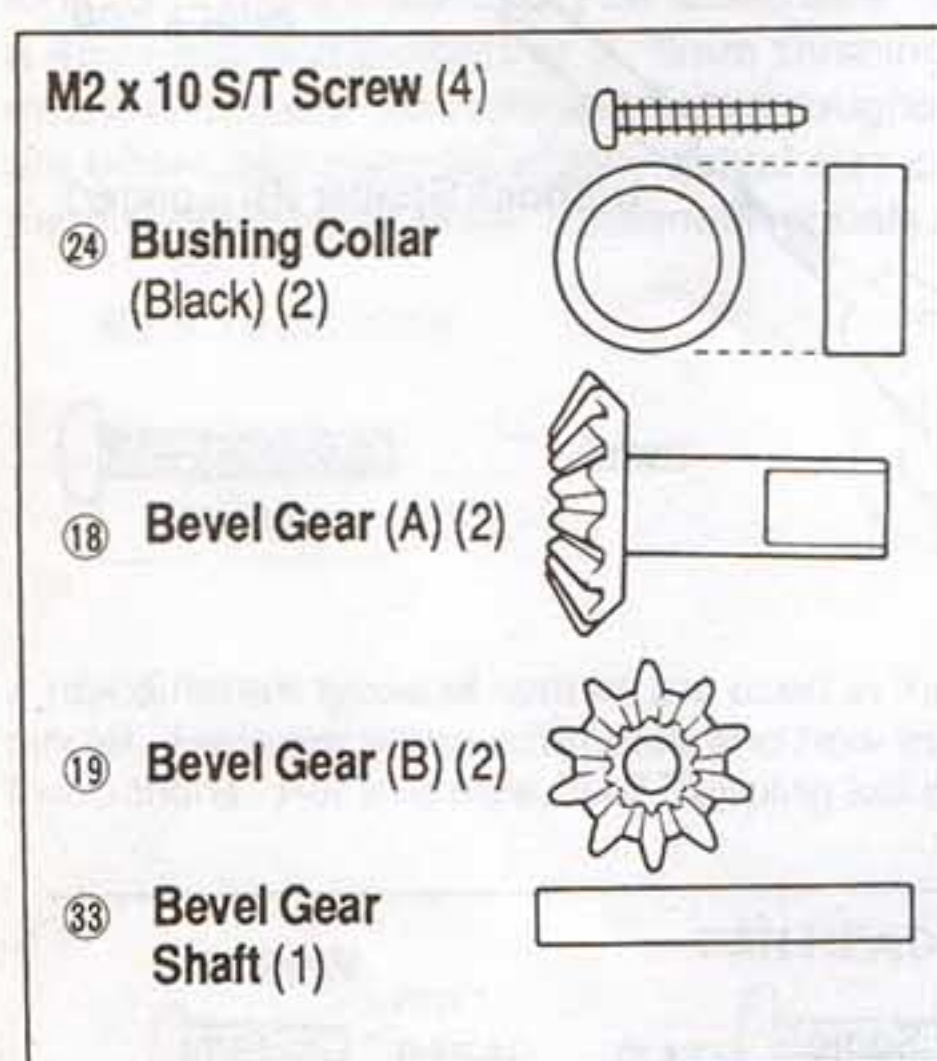
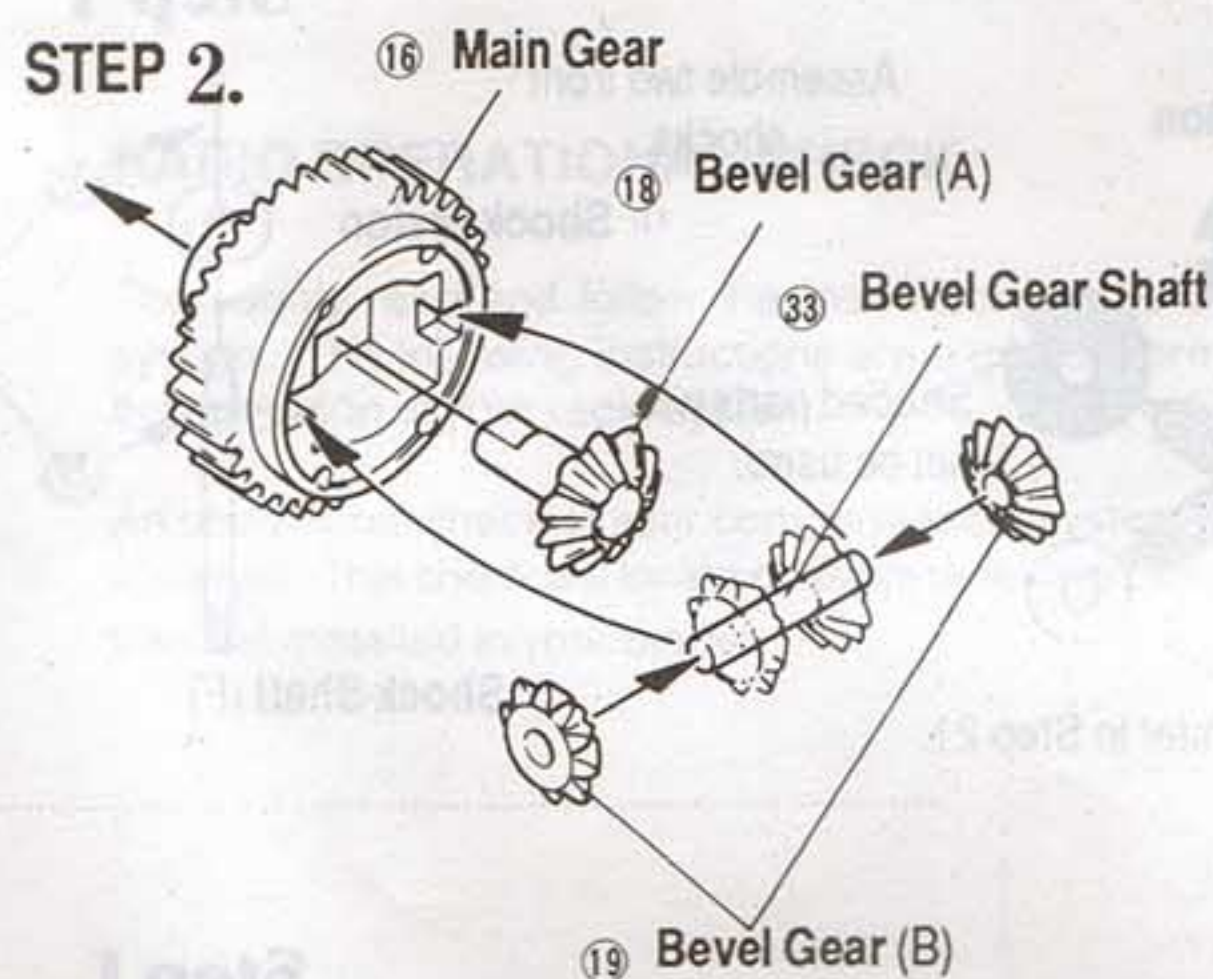
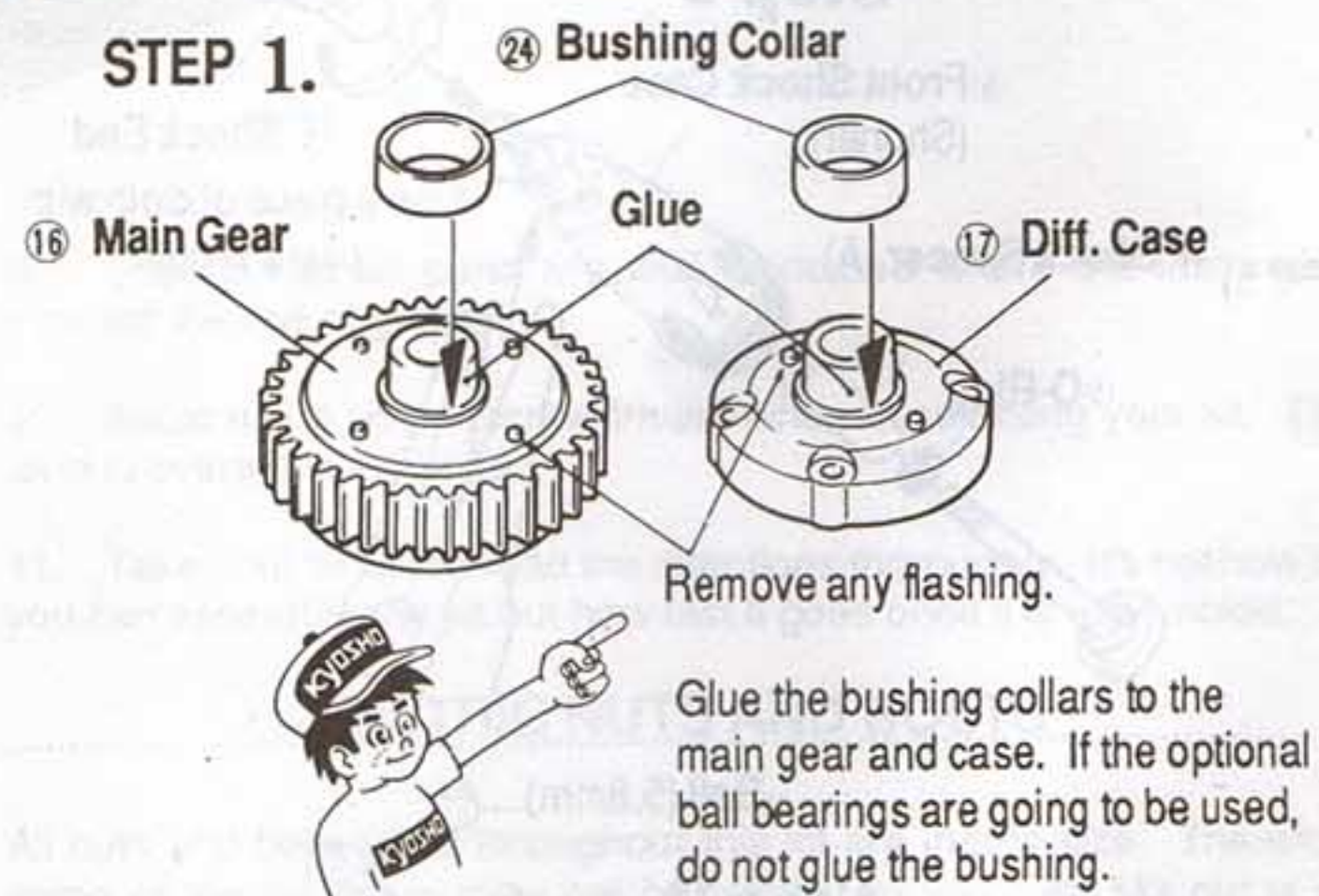
1 SHOCK ASSEMBLY



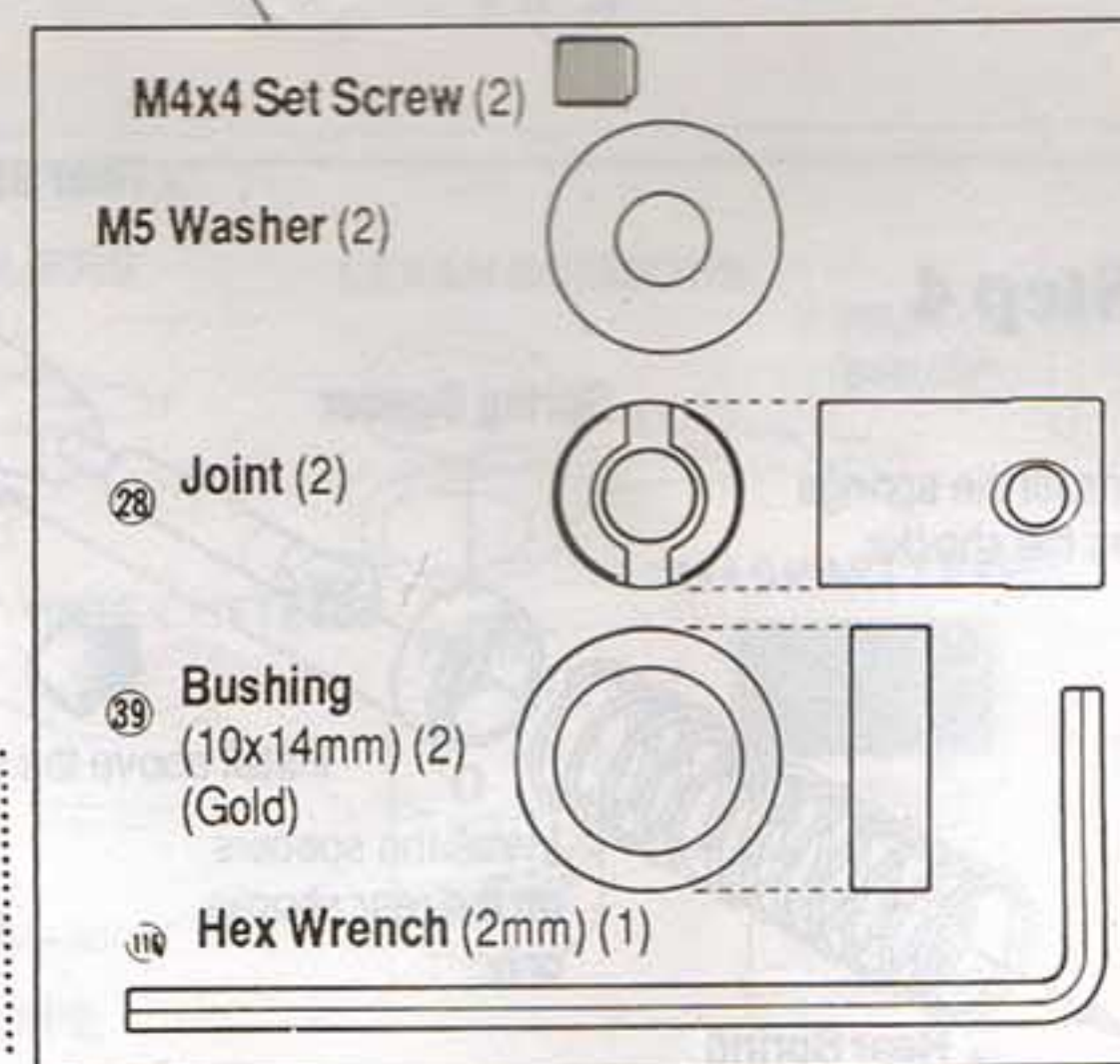
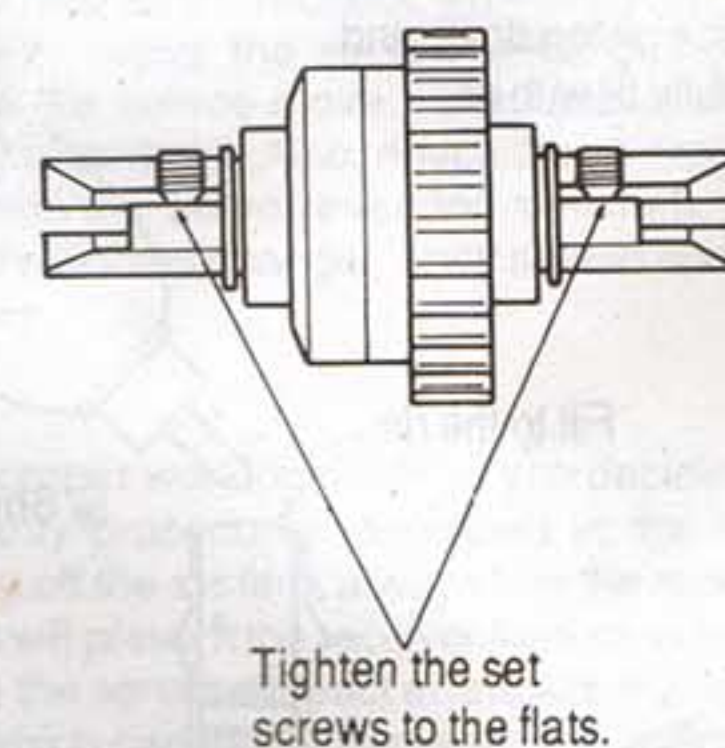
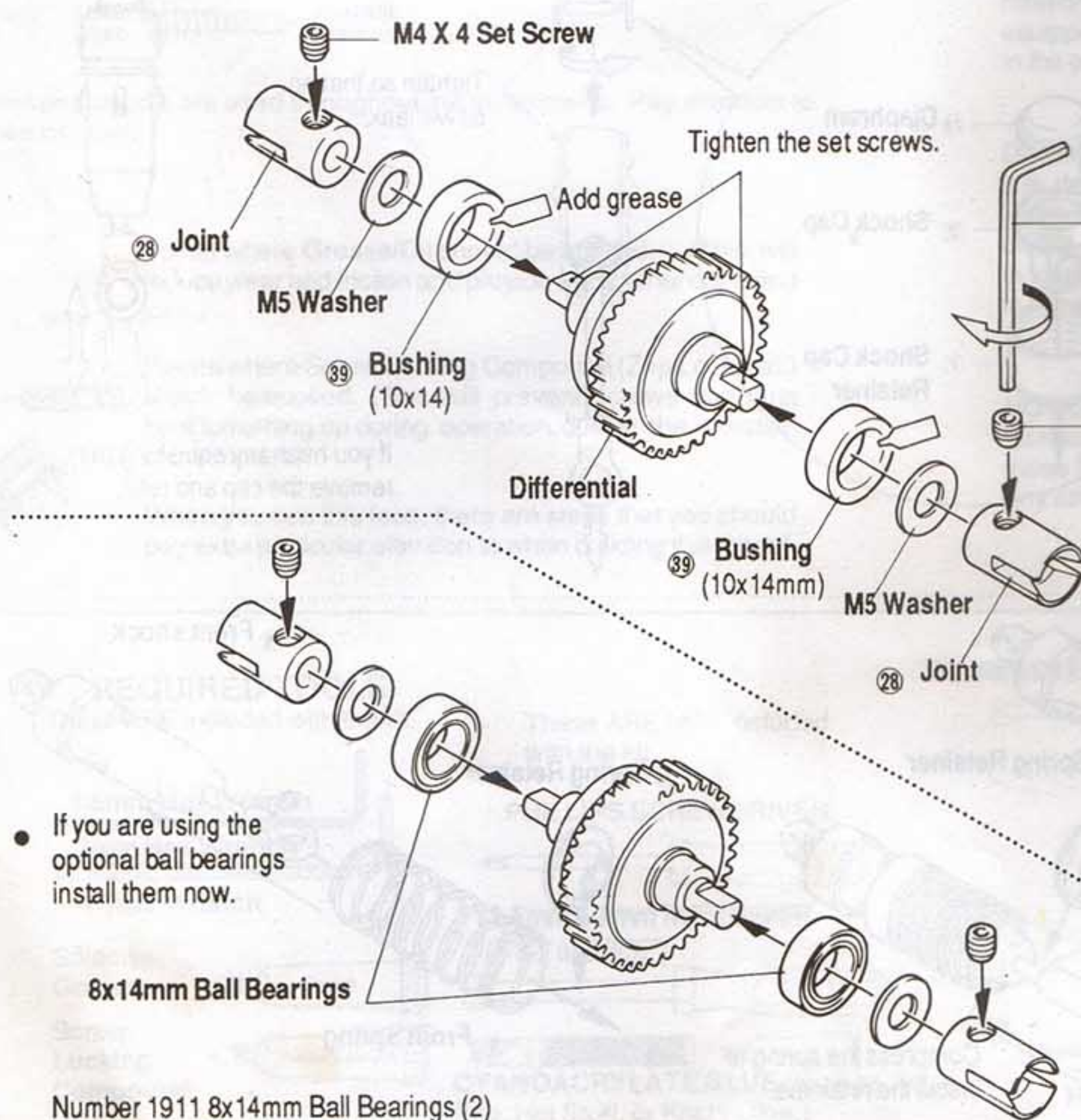
2 FILLING THE SHOCKS WITH OIL



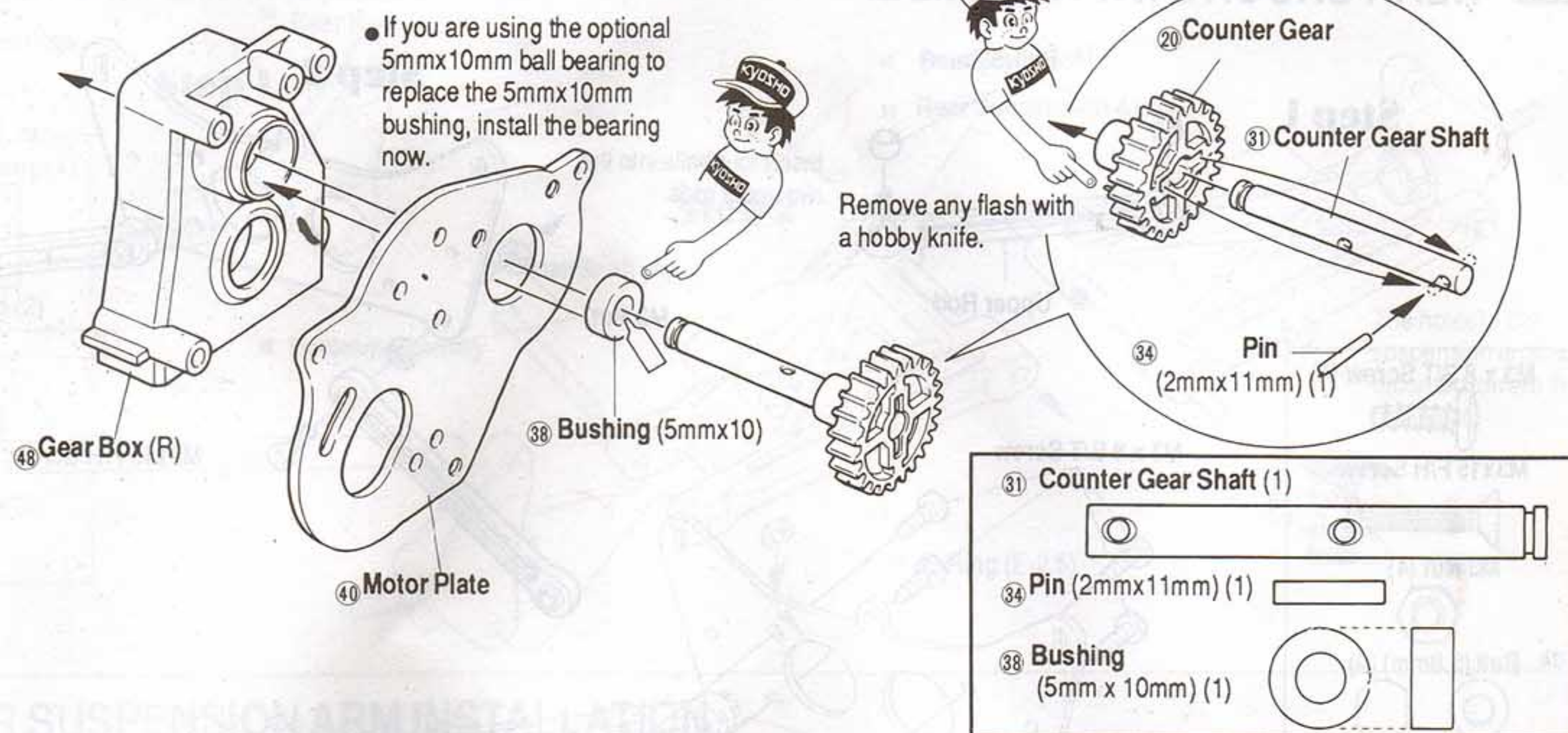
3 DIFFERENTIAL ASSEMBLY



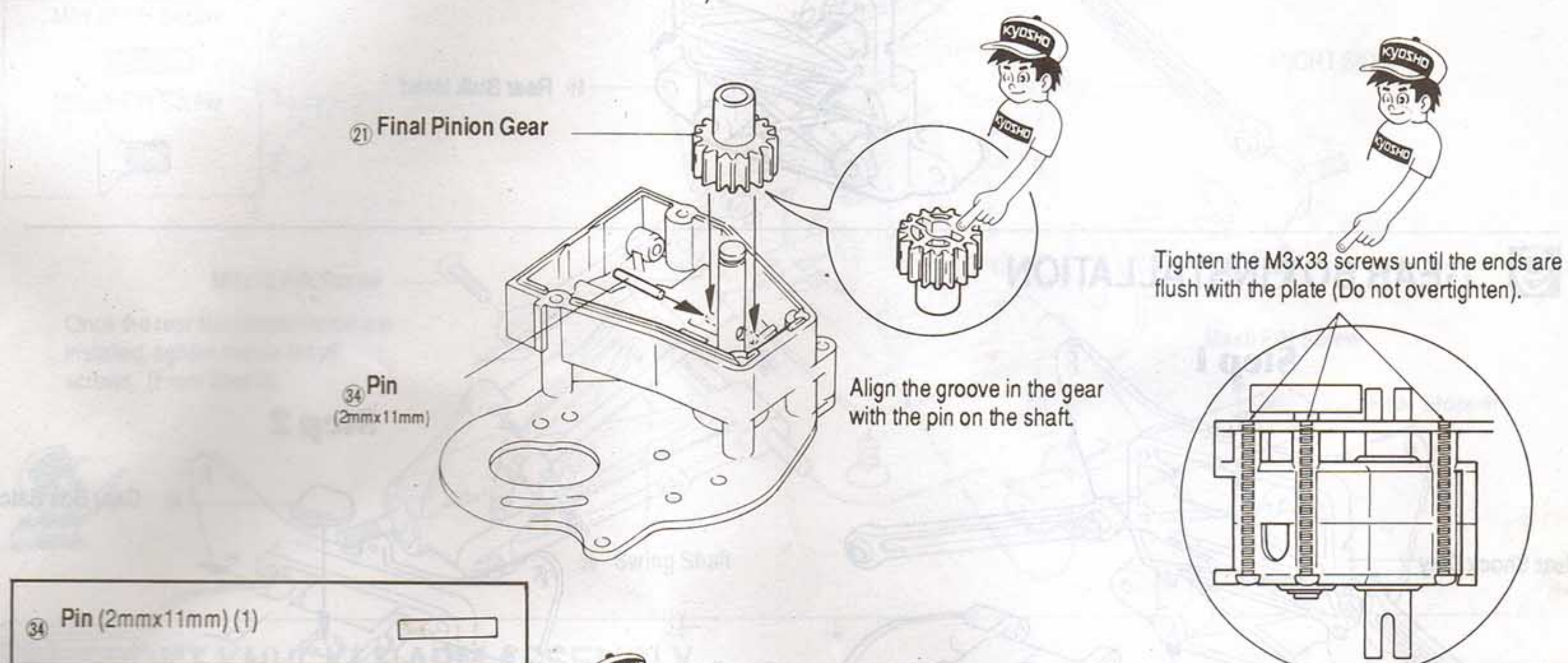
4 JOINT INSTALLATION



5 COUNTER GEAR INSTALLATION



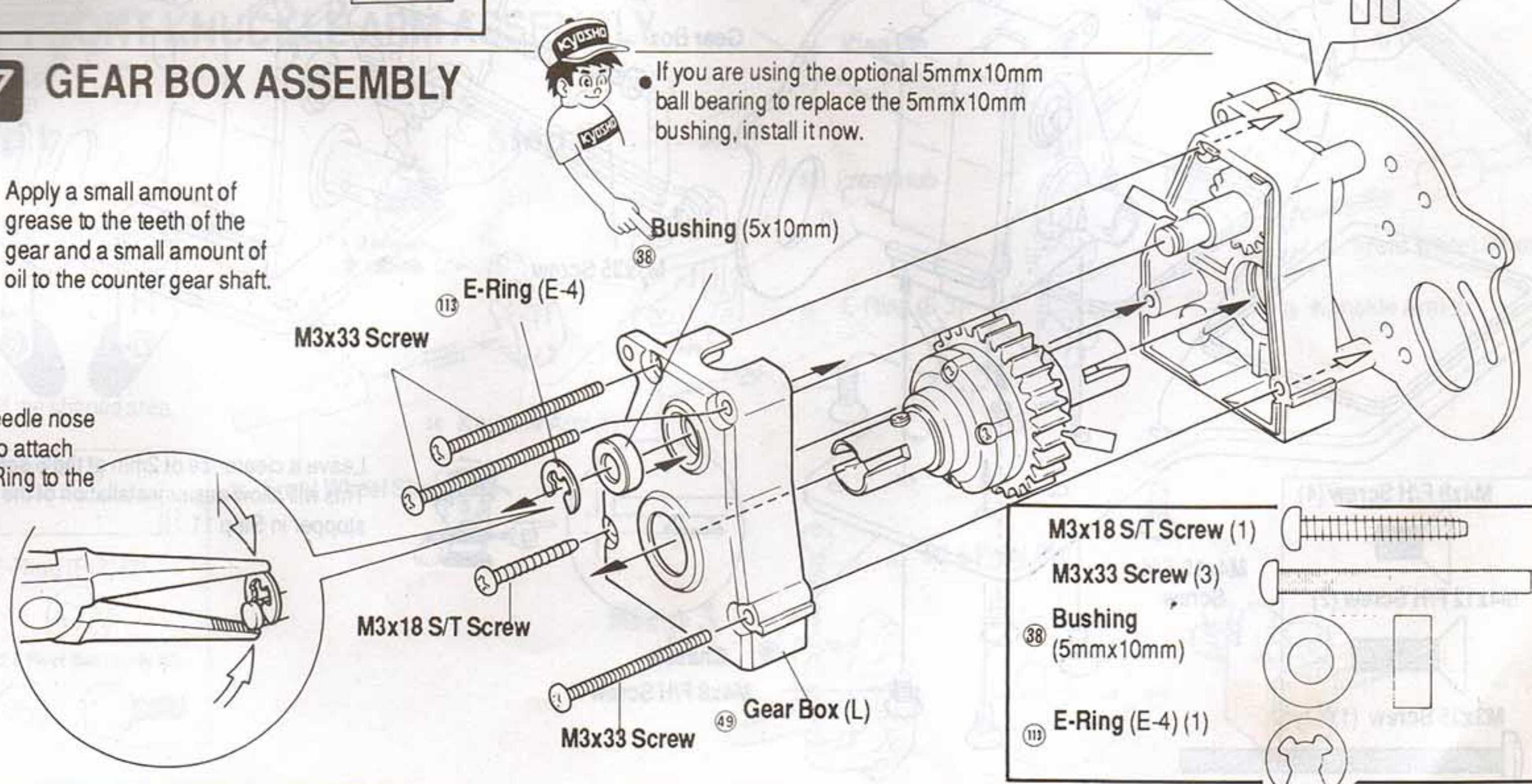
6 FINAL PINION INSTALLATION



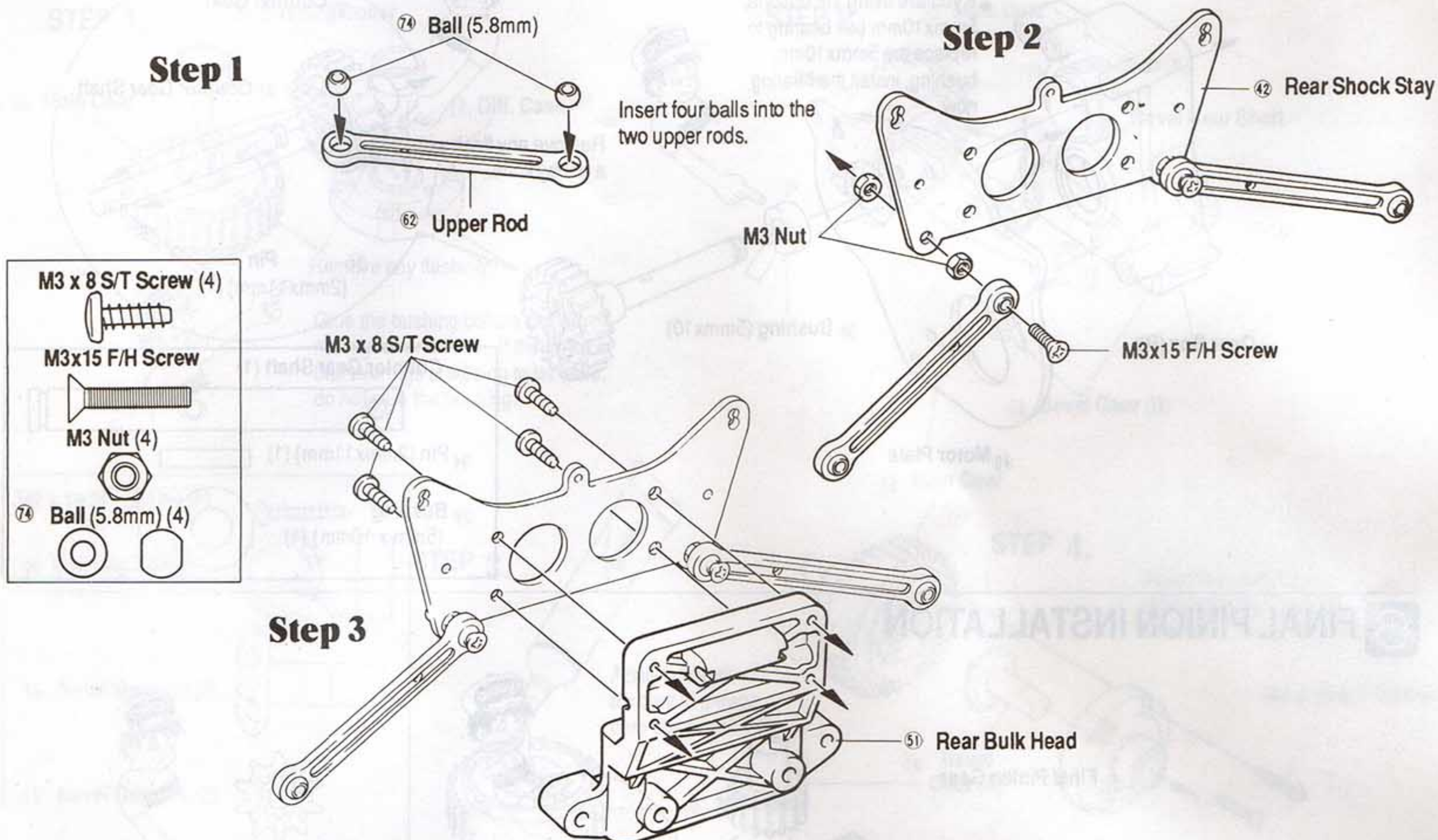
7 GEAR BOX ASSEMBLY

Apply a small amount of grease to the teeth of the gear and a small amount of oil to the counter gear shaft.

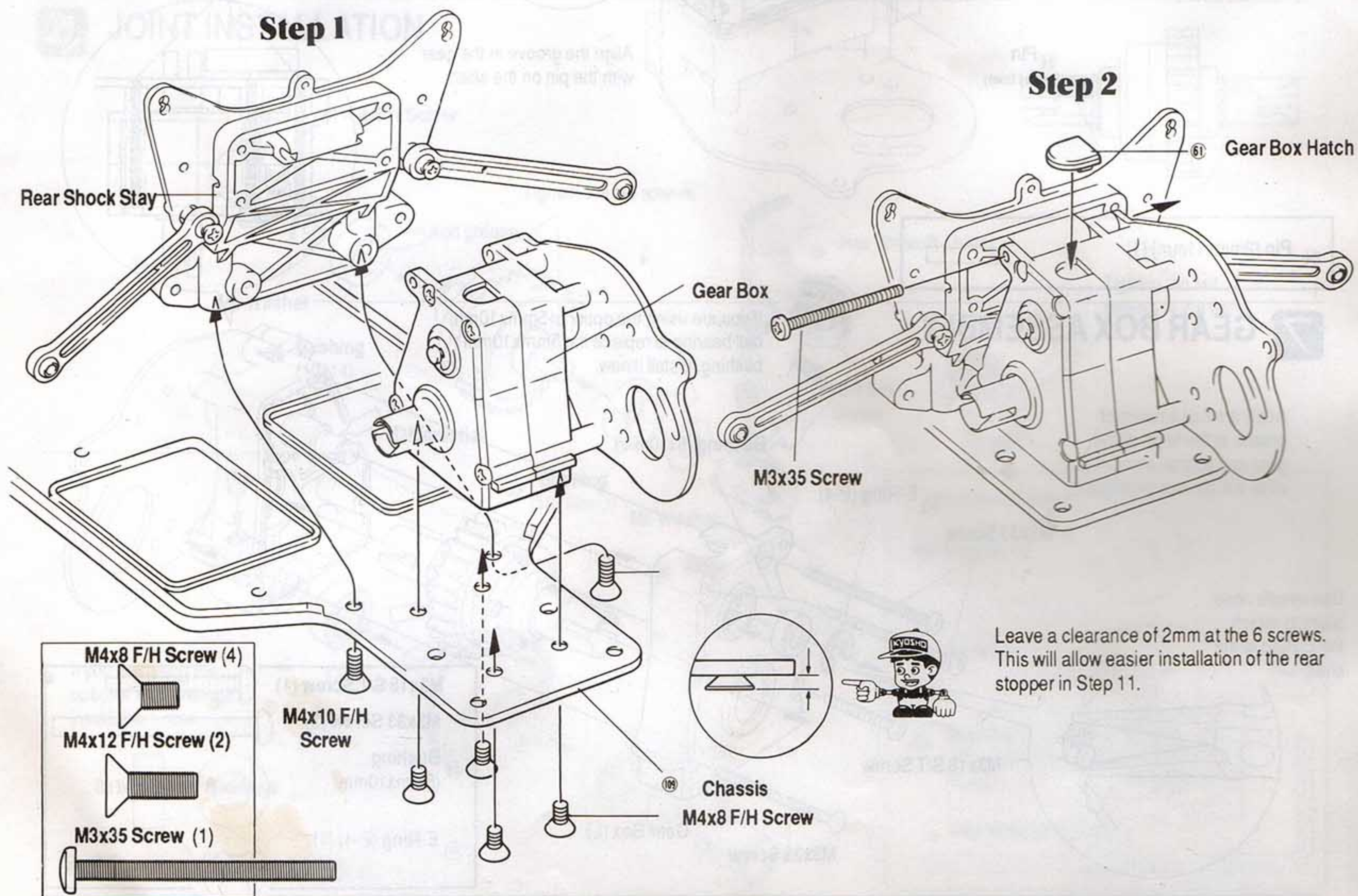
Use needle nose pliers to attach the E-Ring to the shaft.



8 REAR SHOCK STAY ASSEMBLY

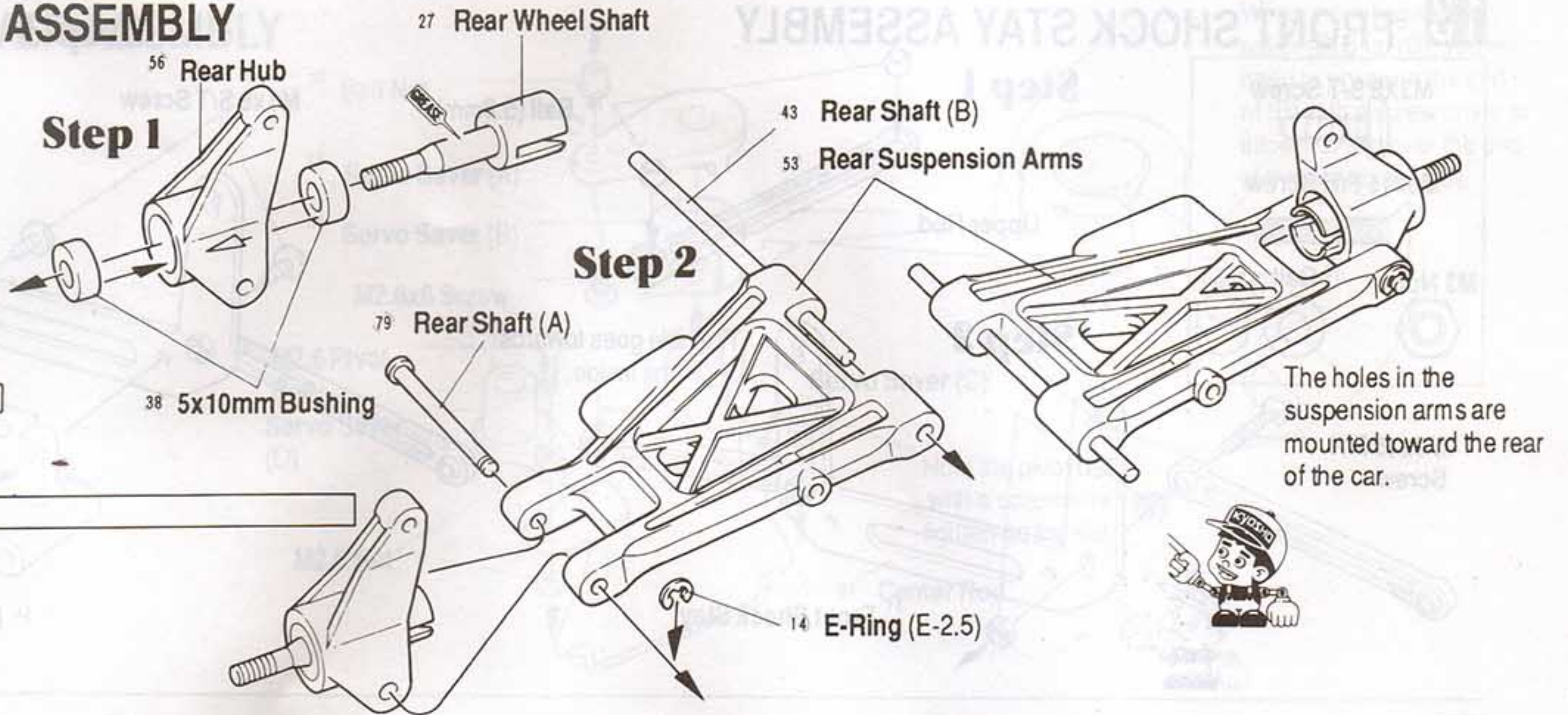
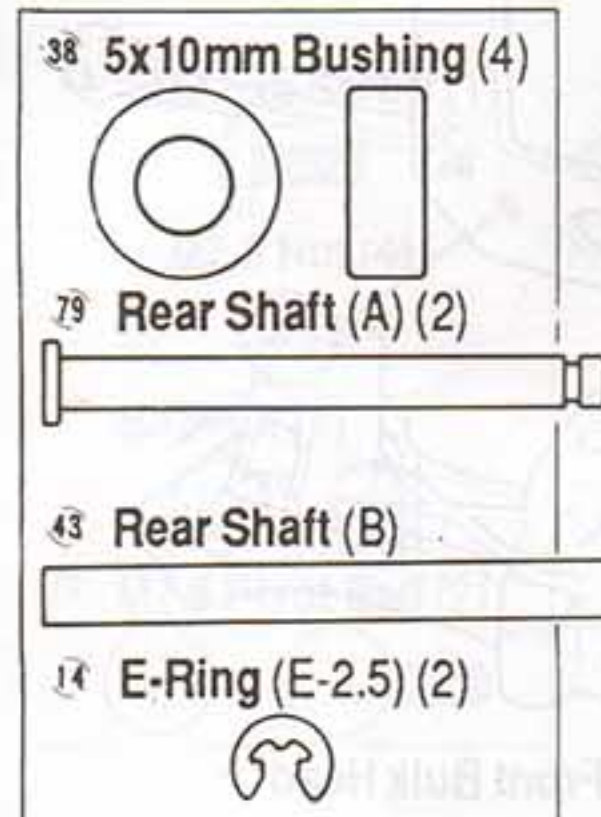


9 GEAR BOX INSTALLATION

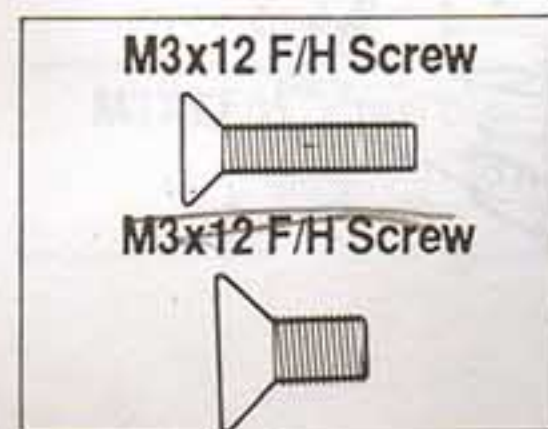


10 REAR HUB ASSEMBLY

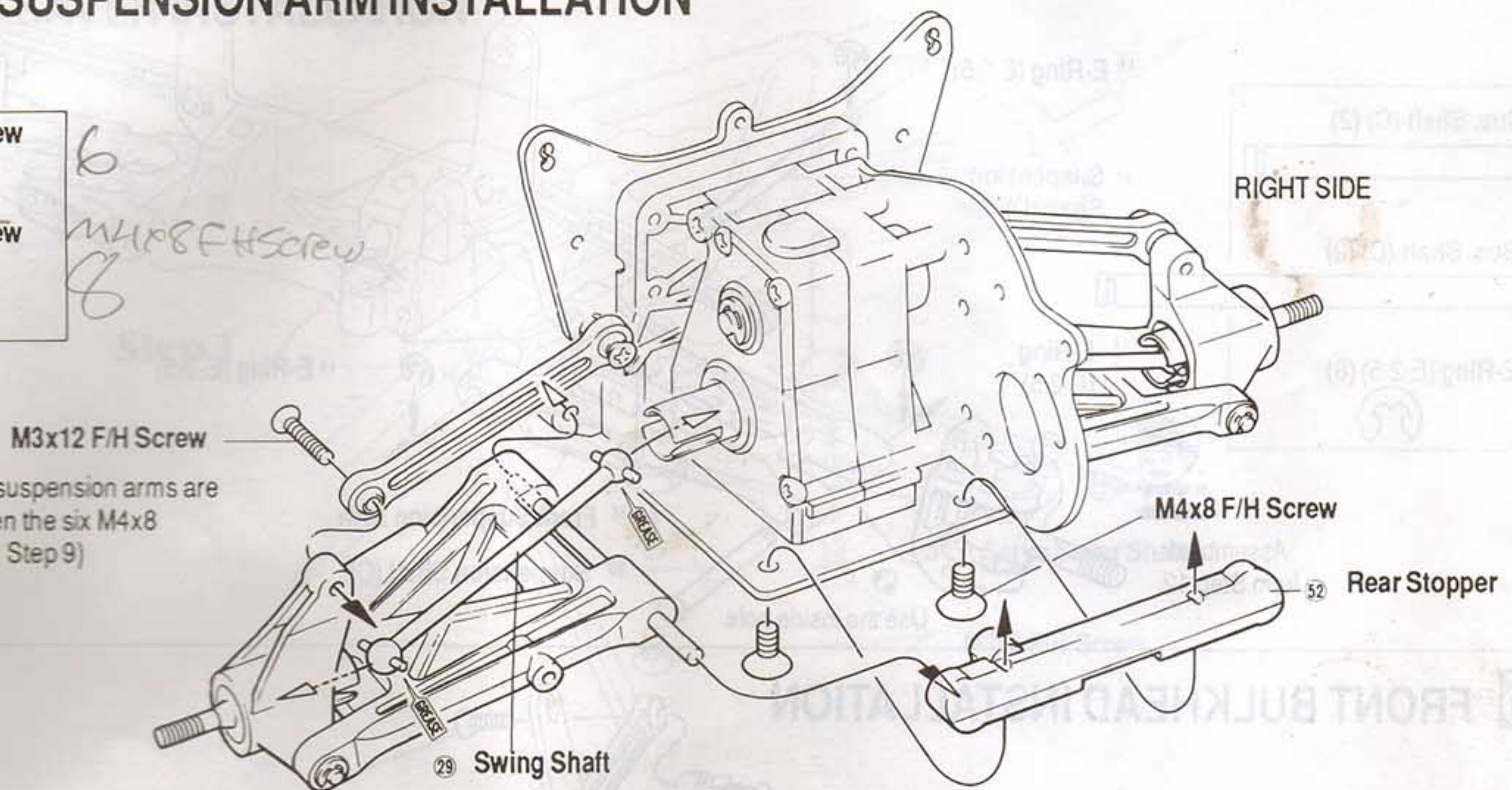
- If you are using bearings install them now.



11 REAR SUSPENSION ARM INSTALLATION

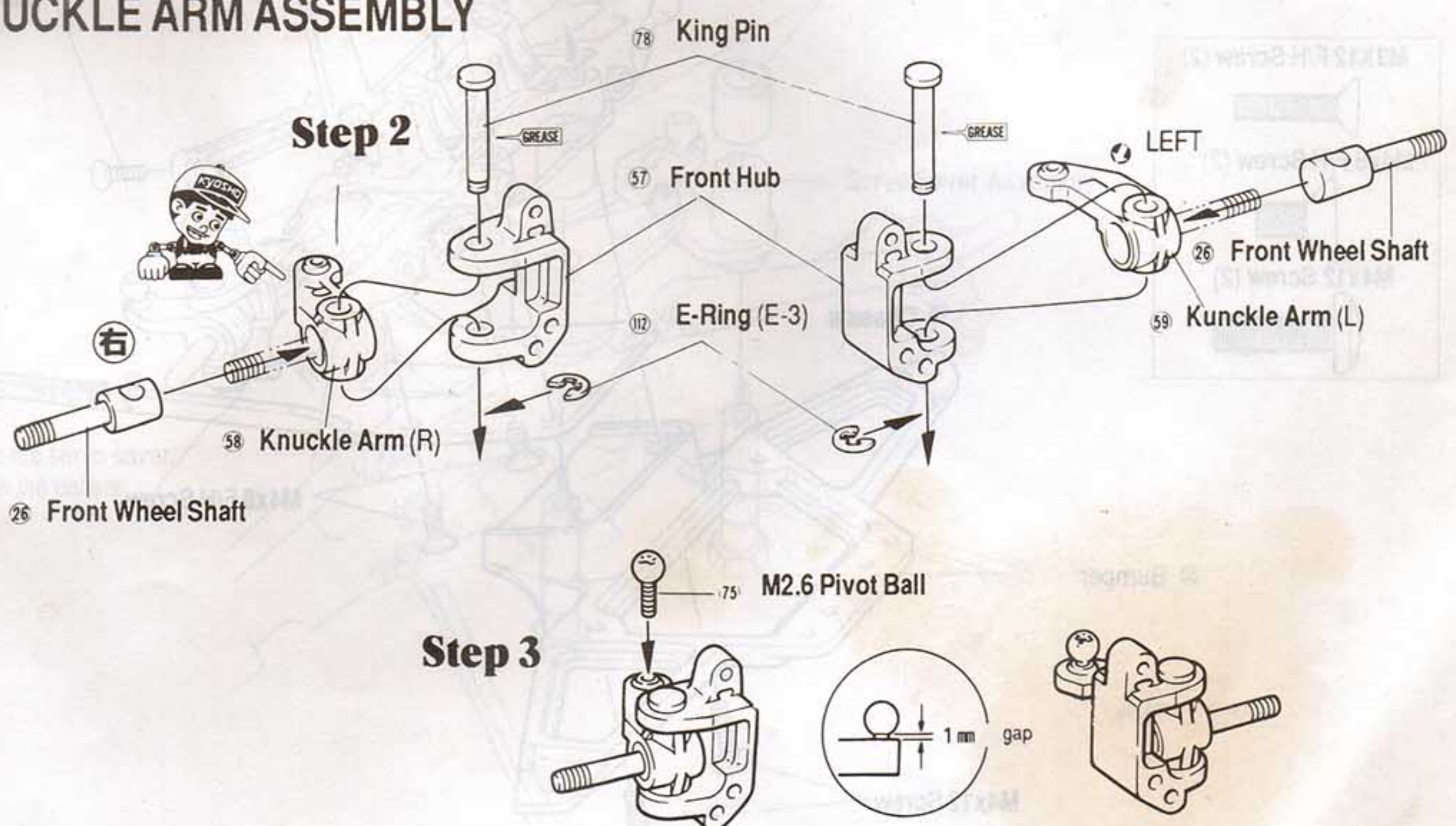
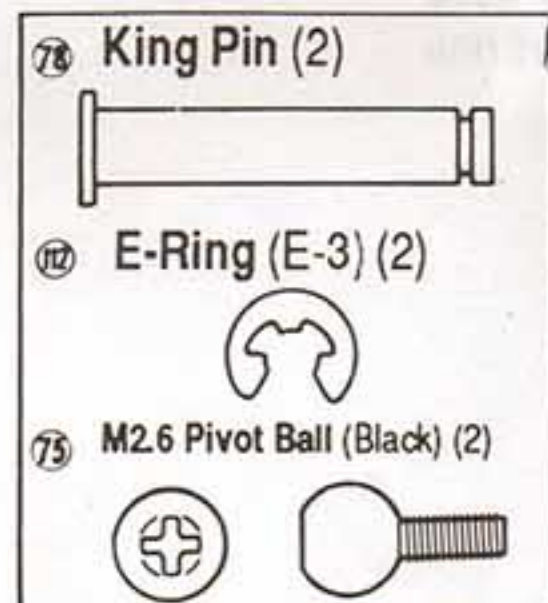
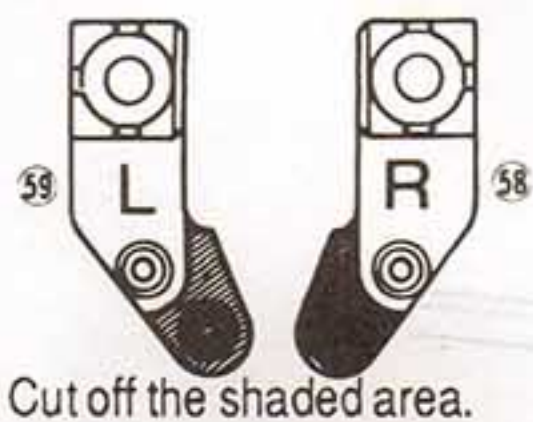


Once the rear suspension arms are installed, tighten the six M4x8 screws. (From Step 9)

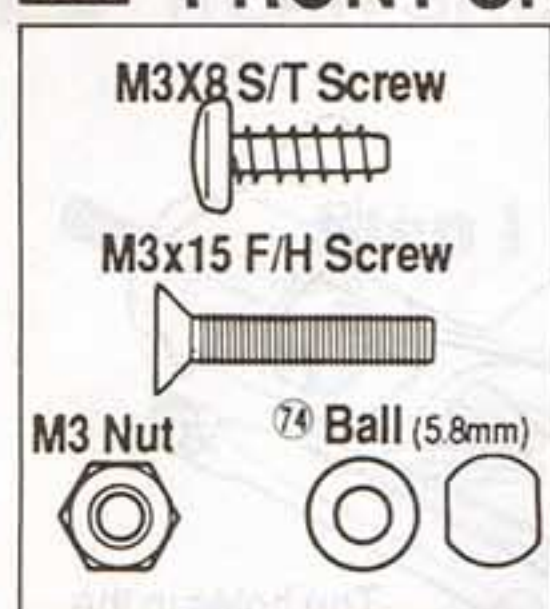


12 FRONT KNUCKLE ARM ASSEMBLY

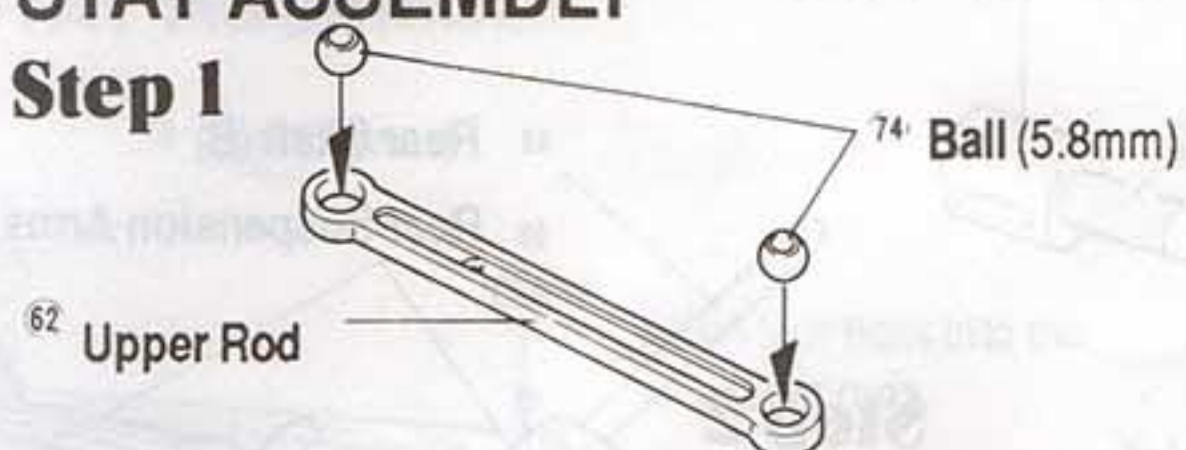
Step 1



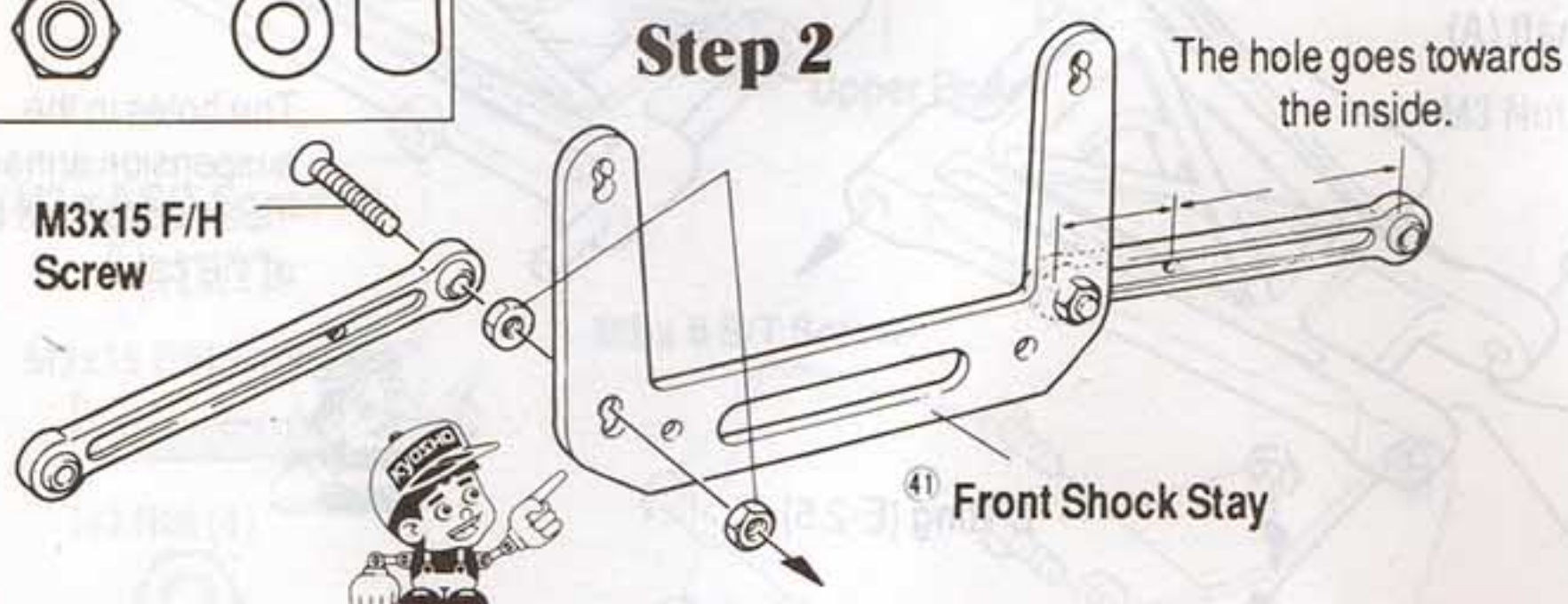
13 FRONT SHOCK STAY ASSEMBLY



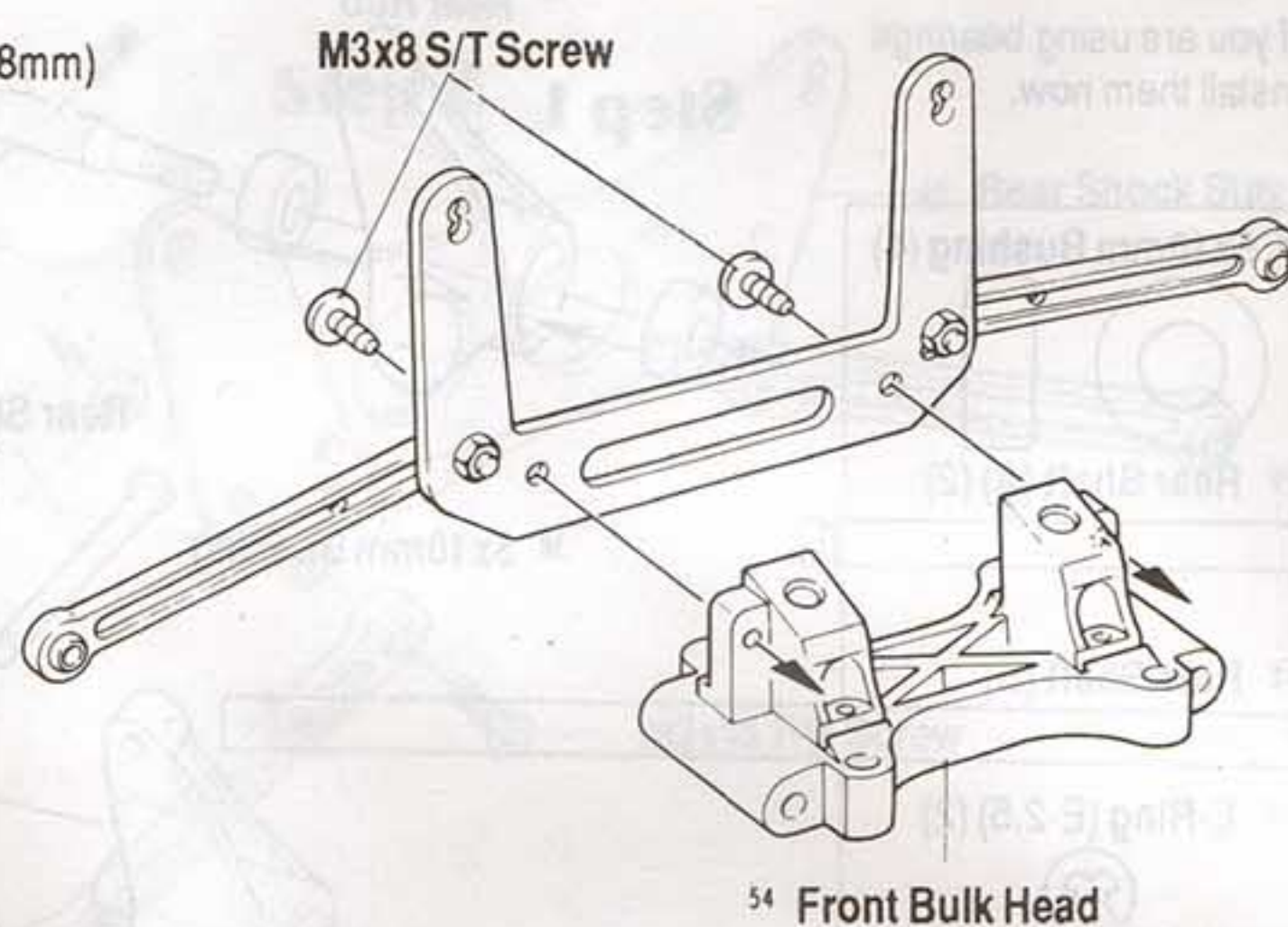
Step 1



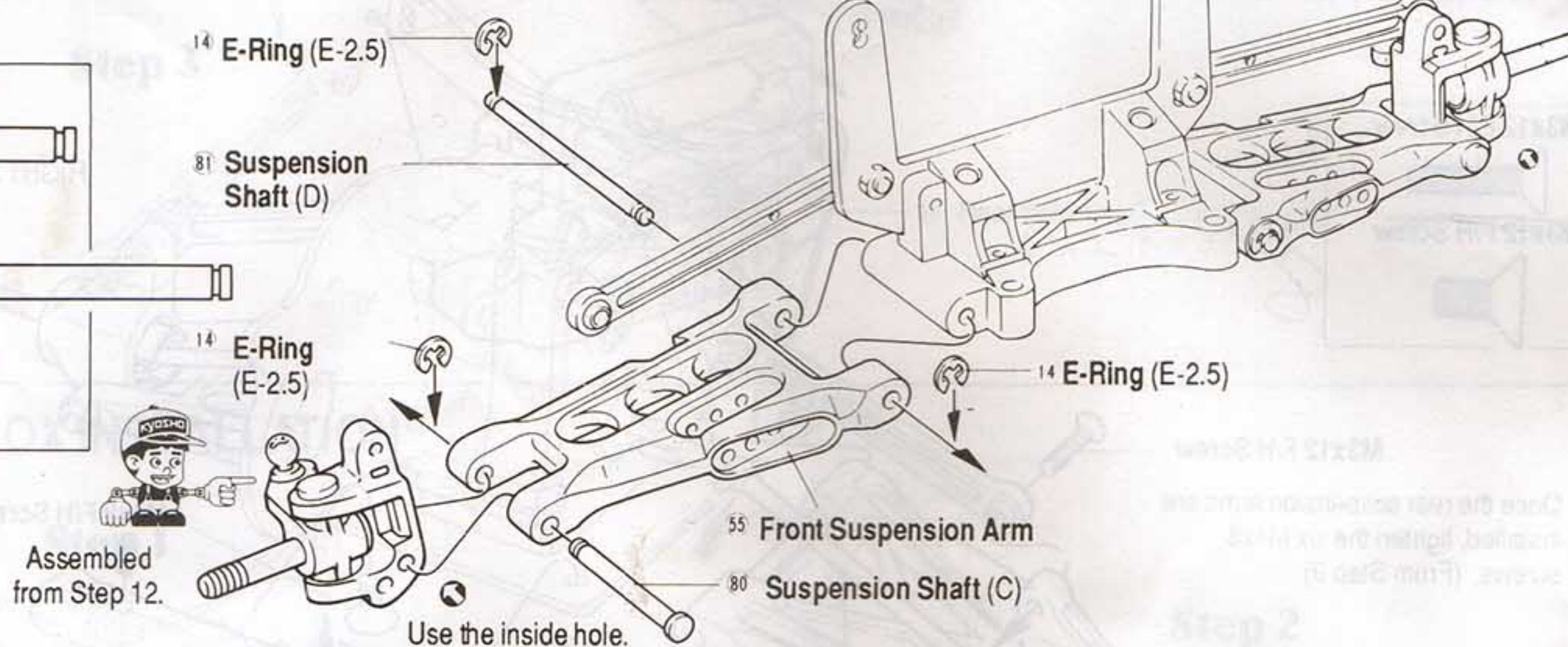
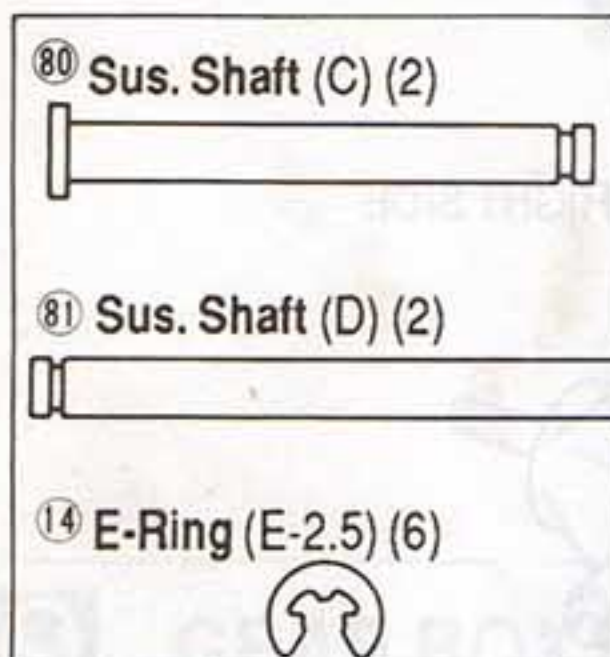
Step 2



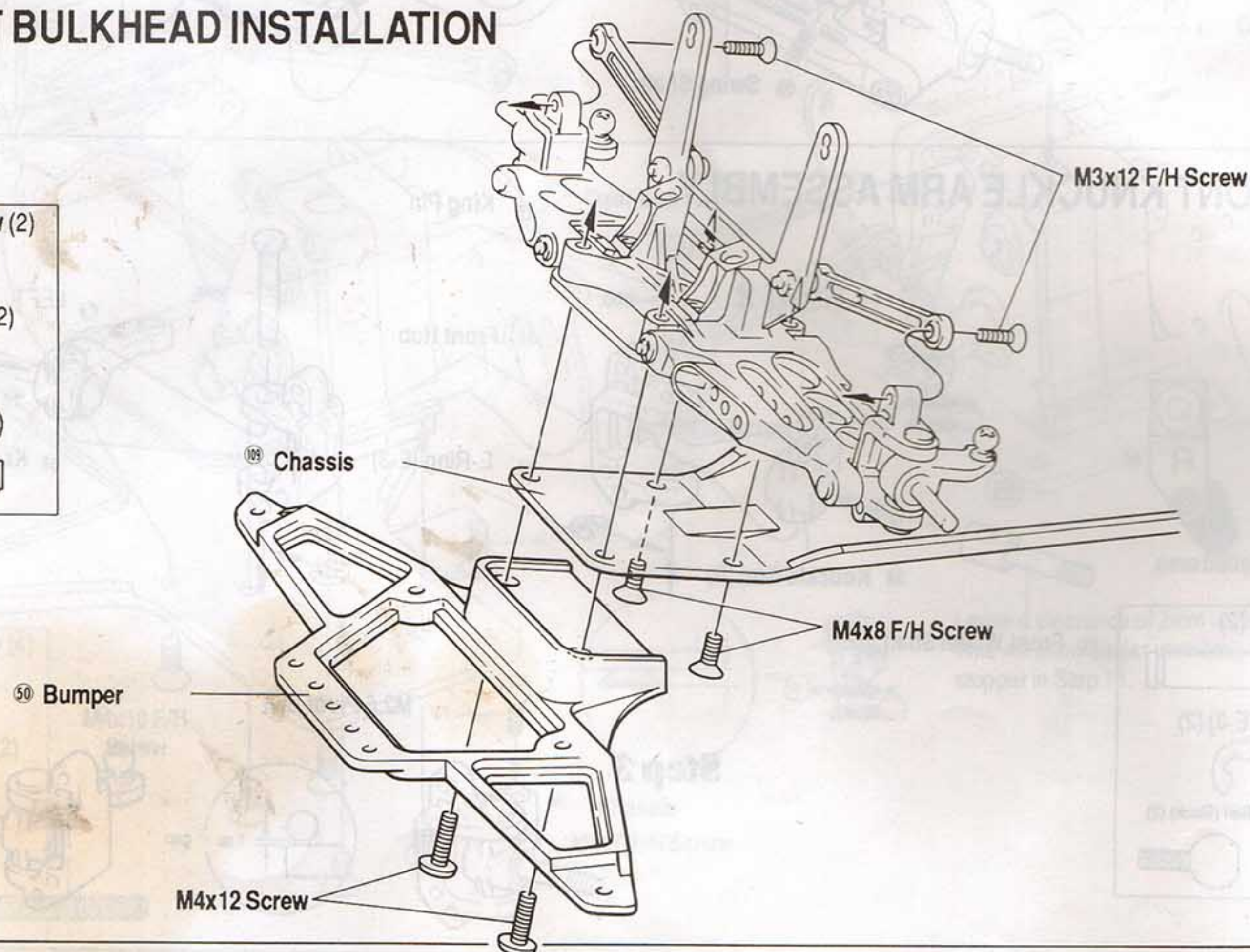
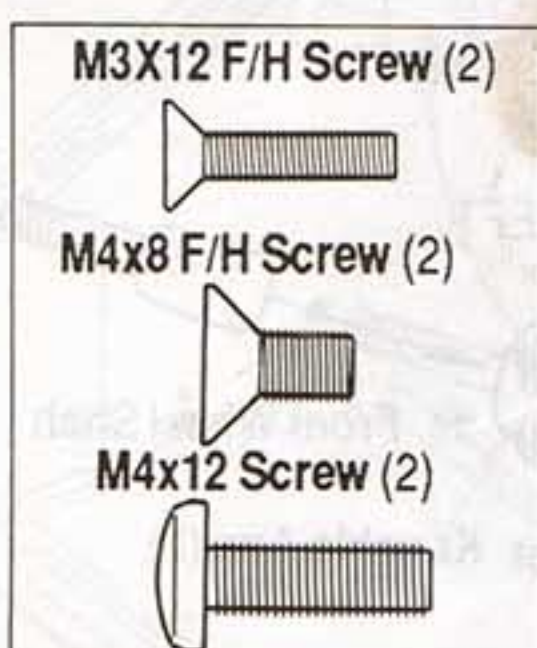
Step 3



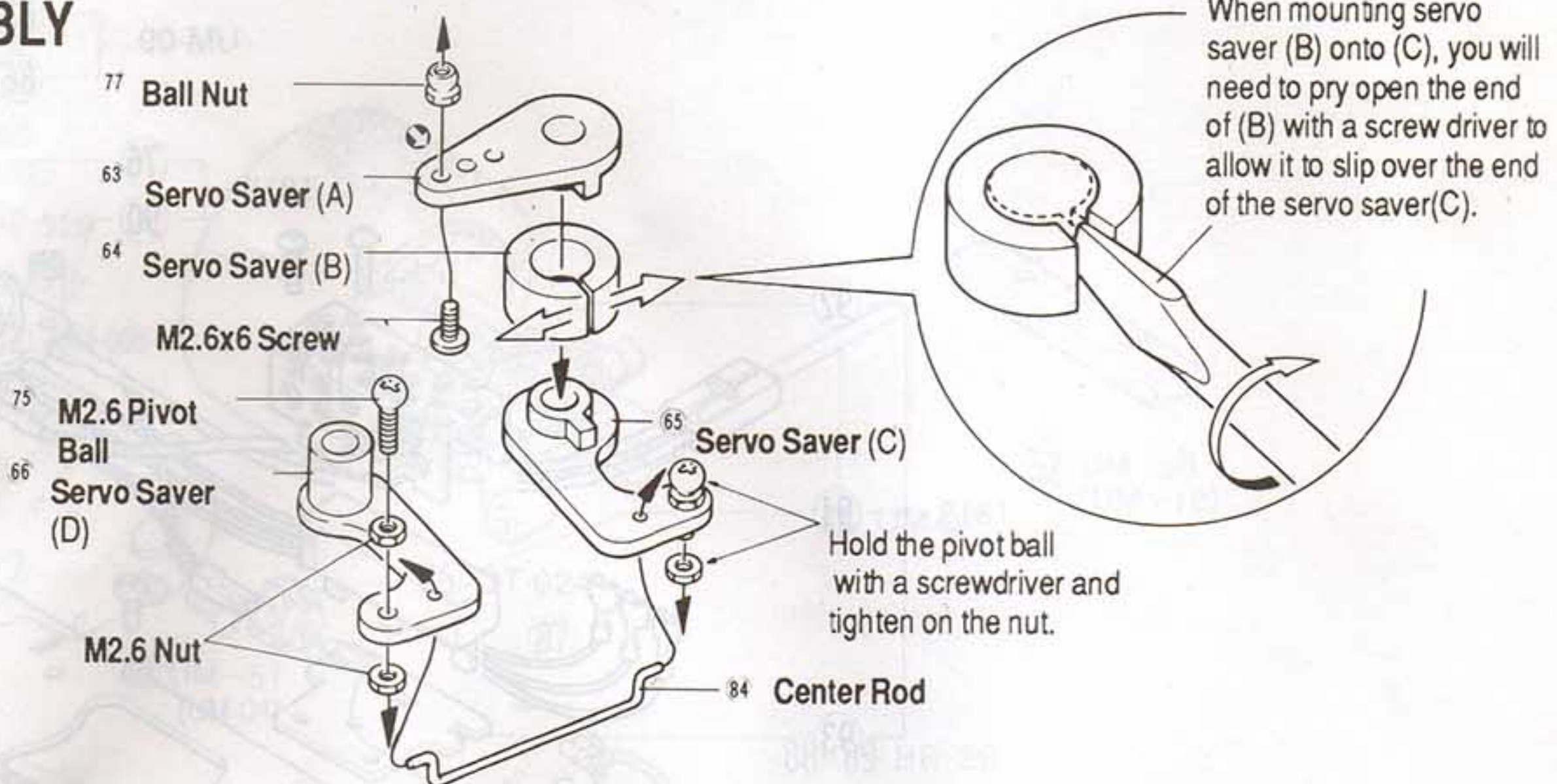
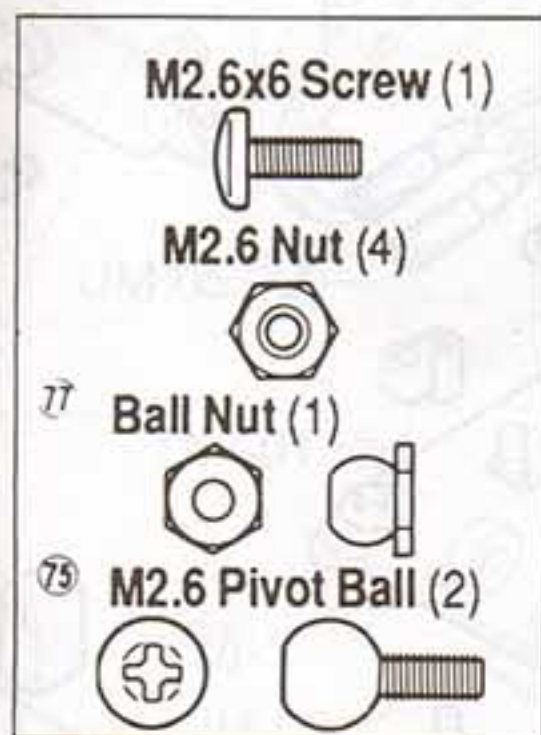
14 FRONT SUSPENSION ARM INSTALLATION



15 FRONT BULKHEAD INSTALLATION



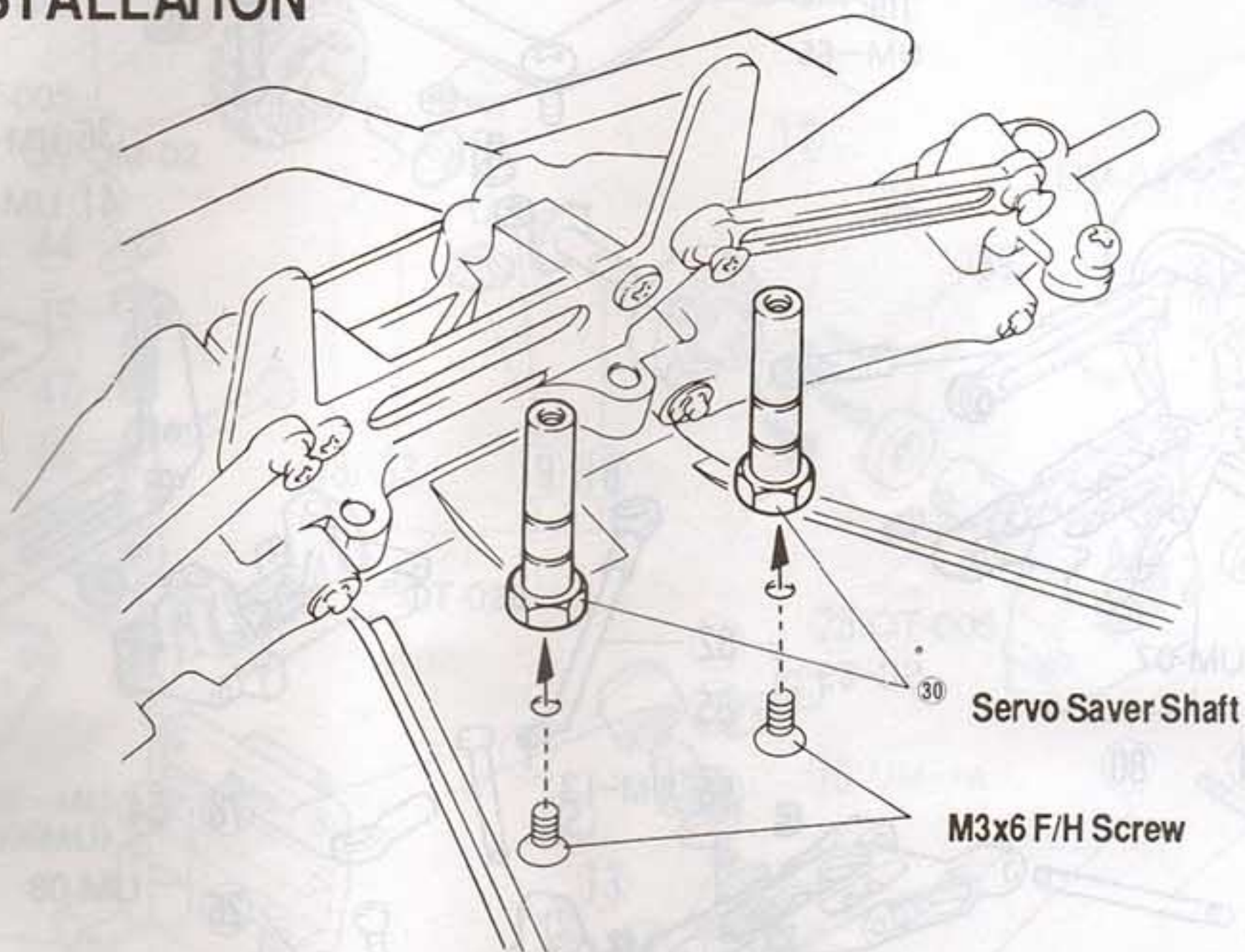
16 SERVO SAVER ASSMBLY



17 SERVO SAVER INSTALLATION

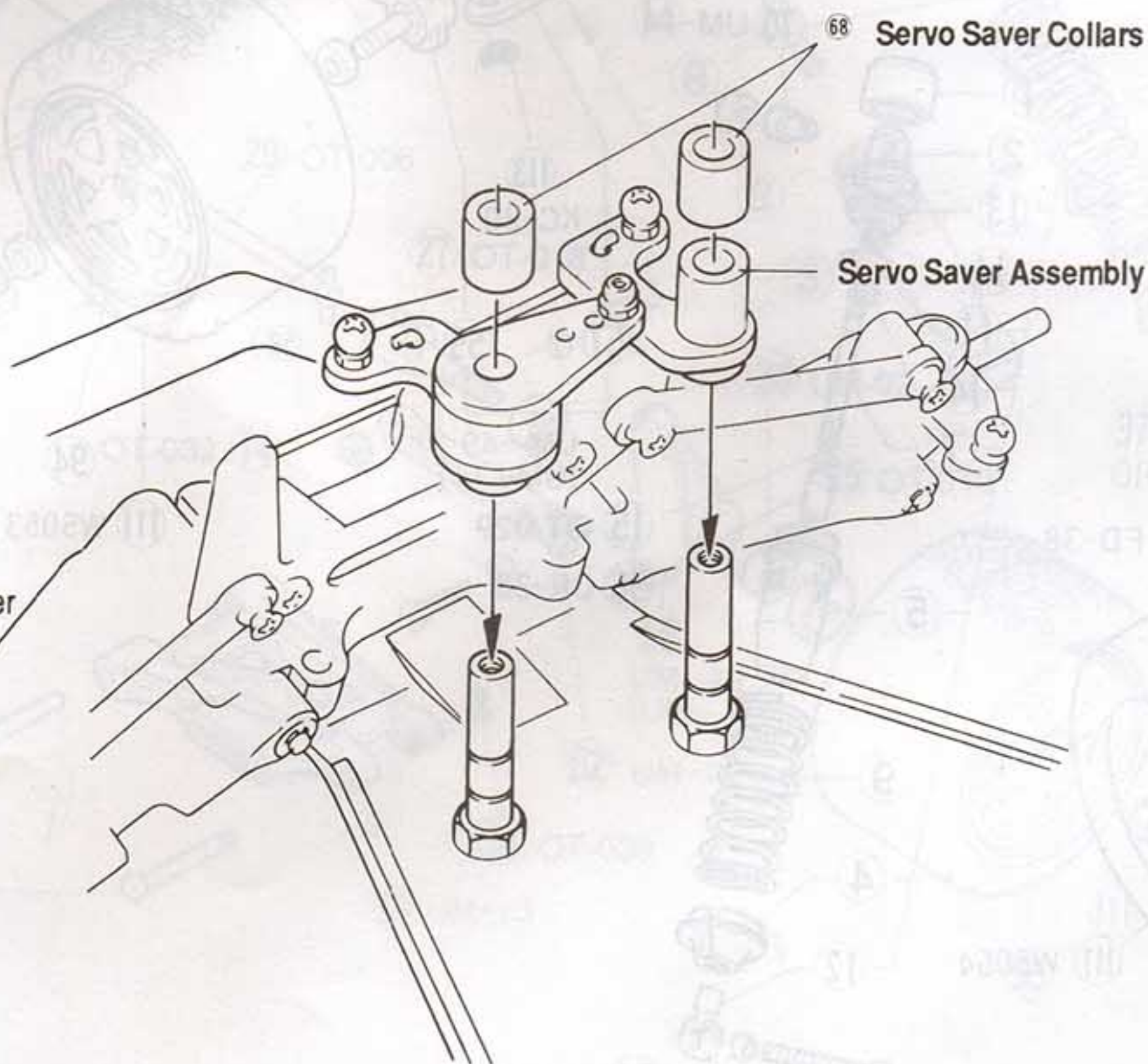


Step 1

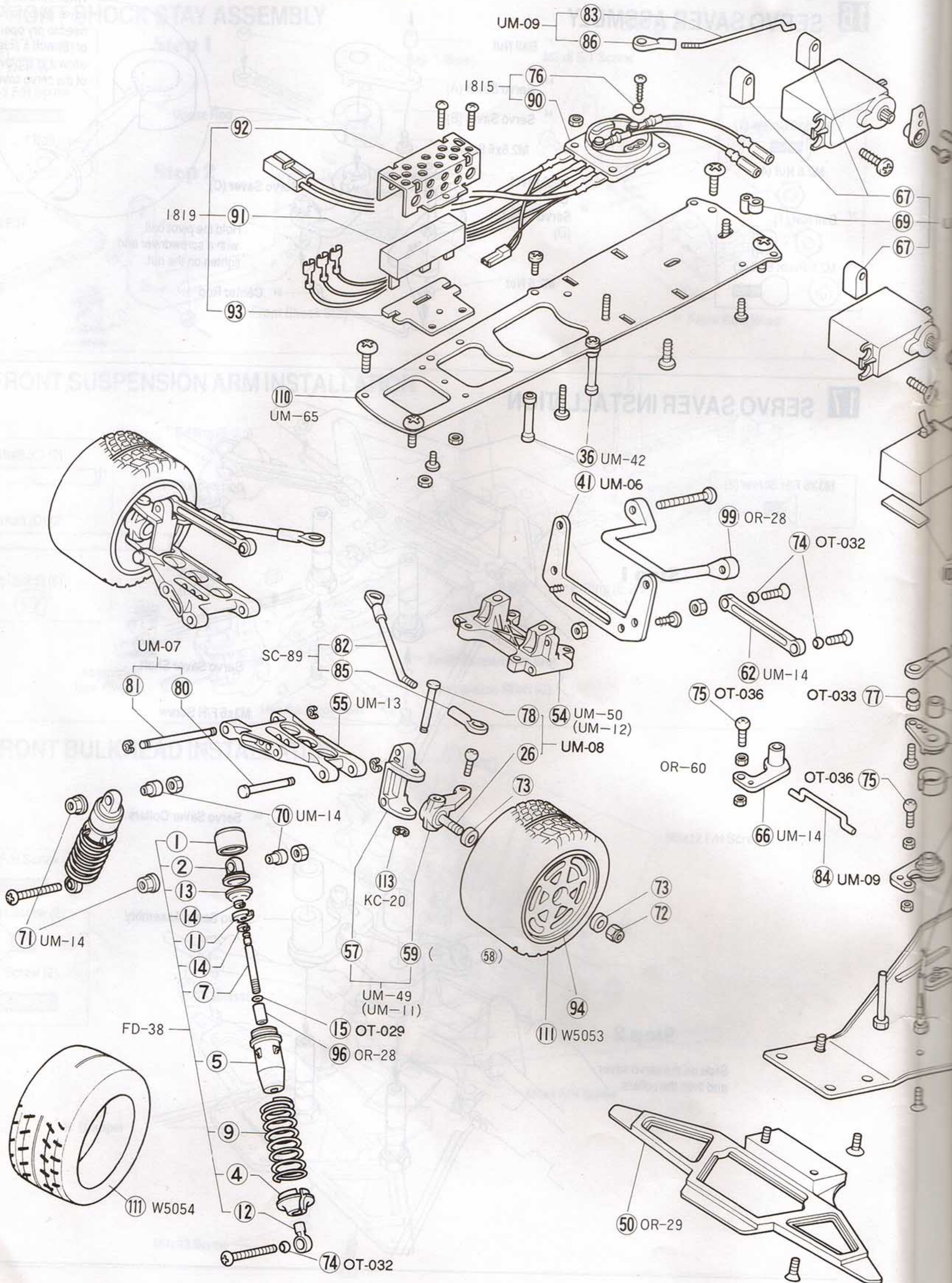


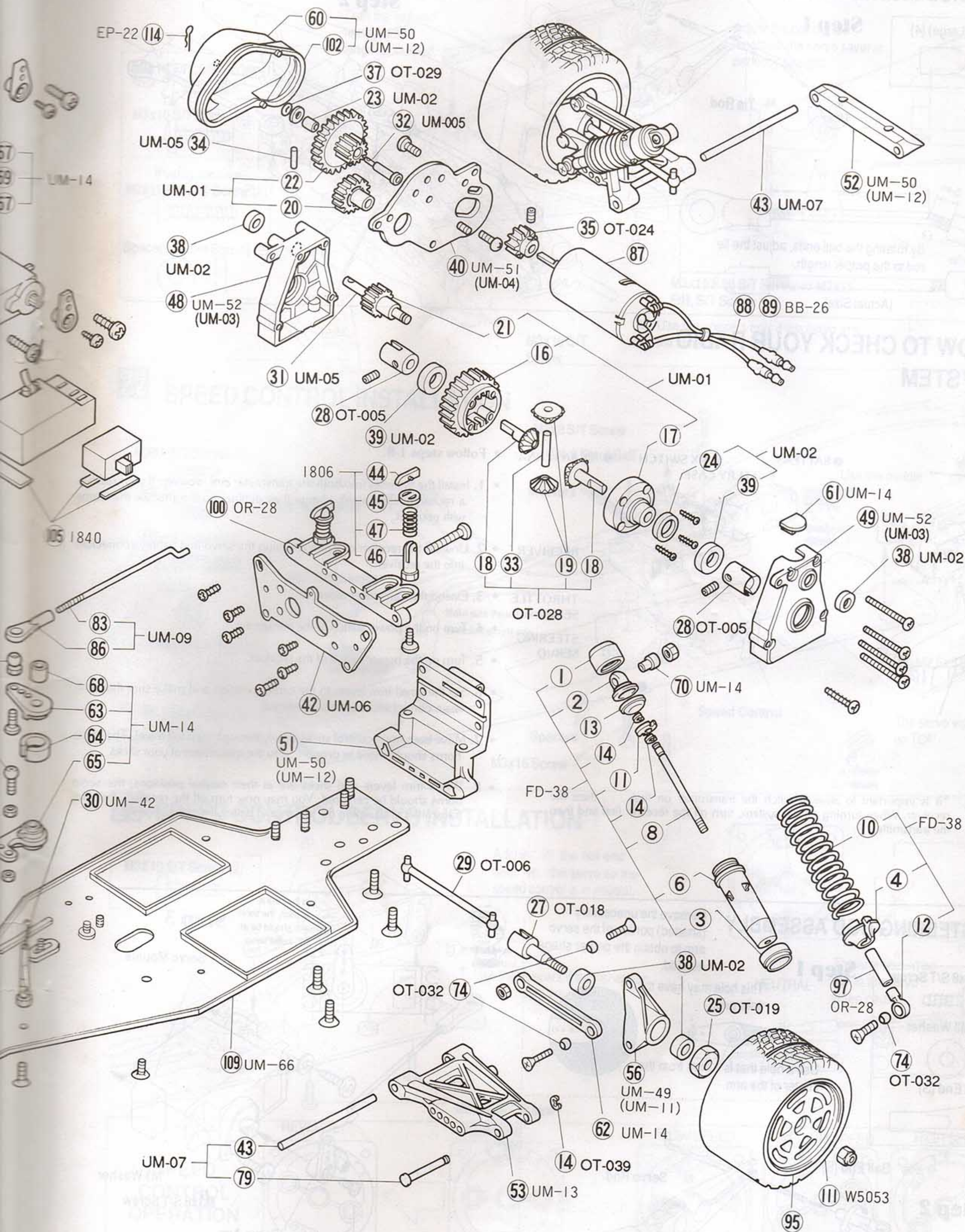
Step 2

Slide on the servo saver and then the collars.



EXPLODED VIEW





18 TIE ROD INSTALLATION

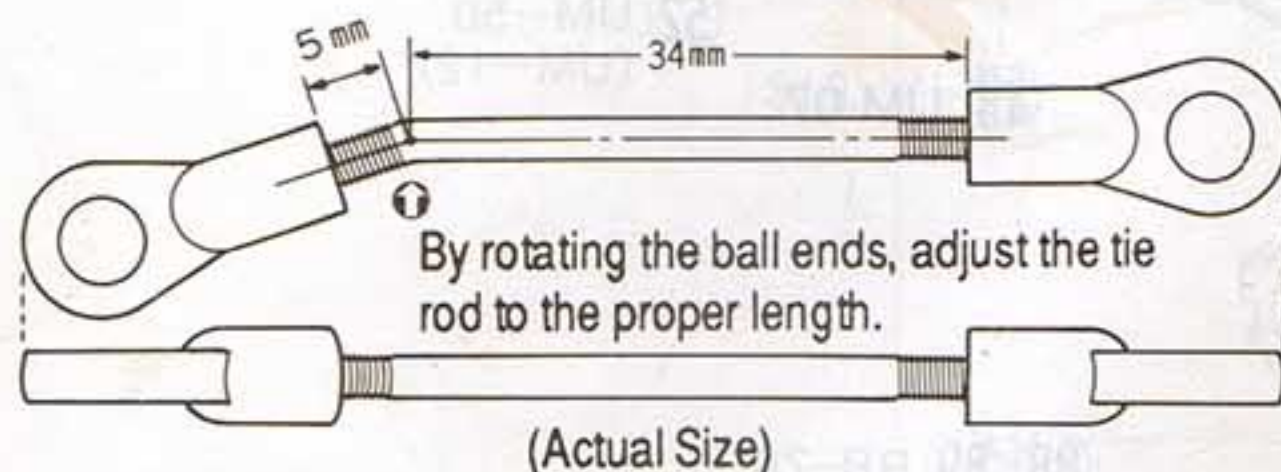
85 Ball End (Large) (4)

Step 1

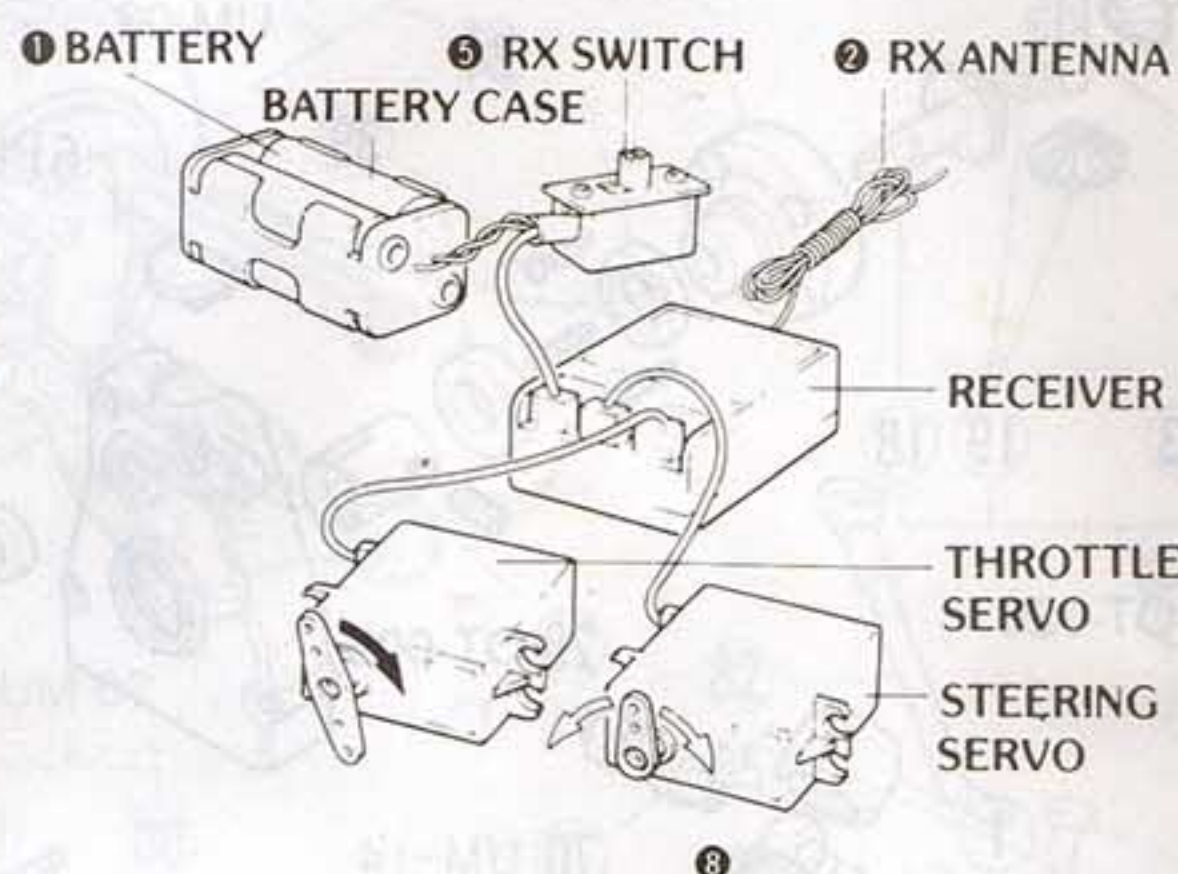
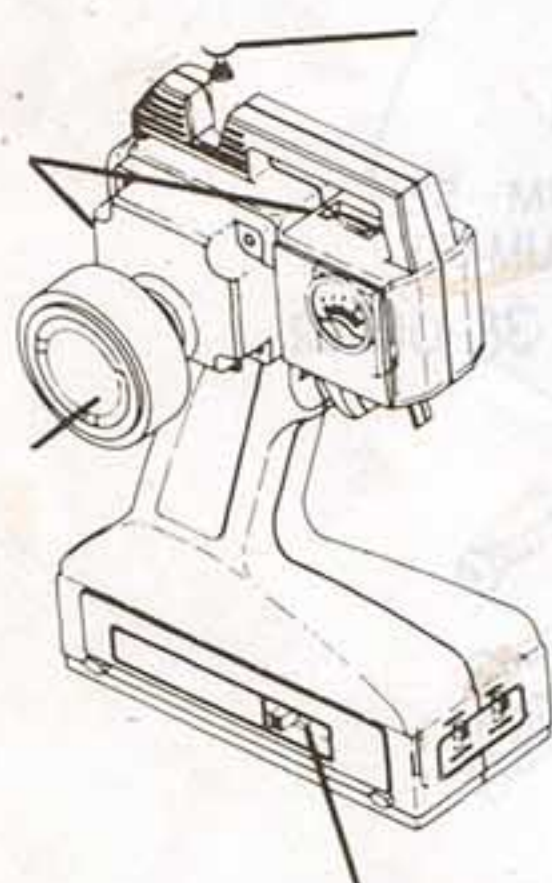
85 Ball End (Large)

82 Tie Rod

Step 2



19 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. Unwind 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 receiver, then the transmitter 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.

20 STEERING ROD ASSEMBLY

Remove the unnecessary (shaded) portion of the servo arm to obtain the proper shape needed.

Step 1

M3x8 S/T Screw

M3 Washer

86 Ball End (S)

This hole may have to be enlarged.

Use a hole that is 13mm from the center of the arm.

Step 2

86 Ball End (S)

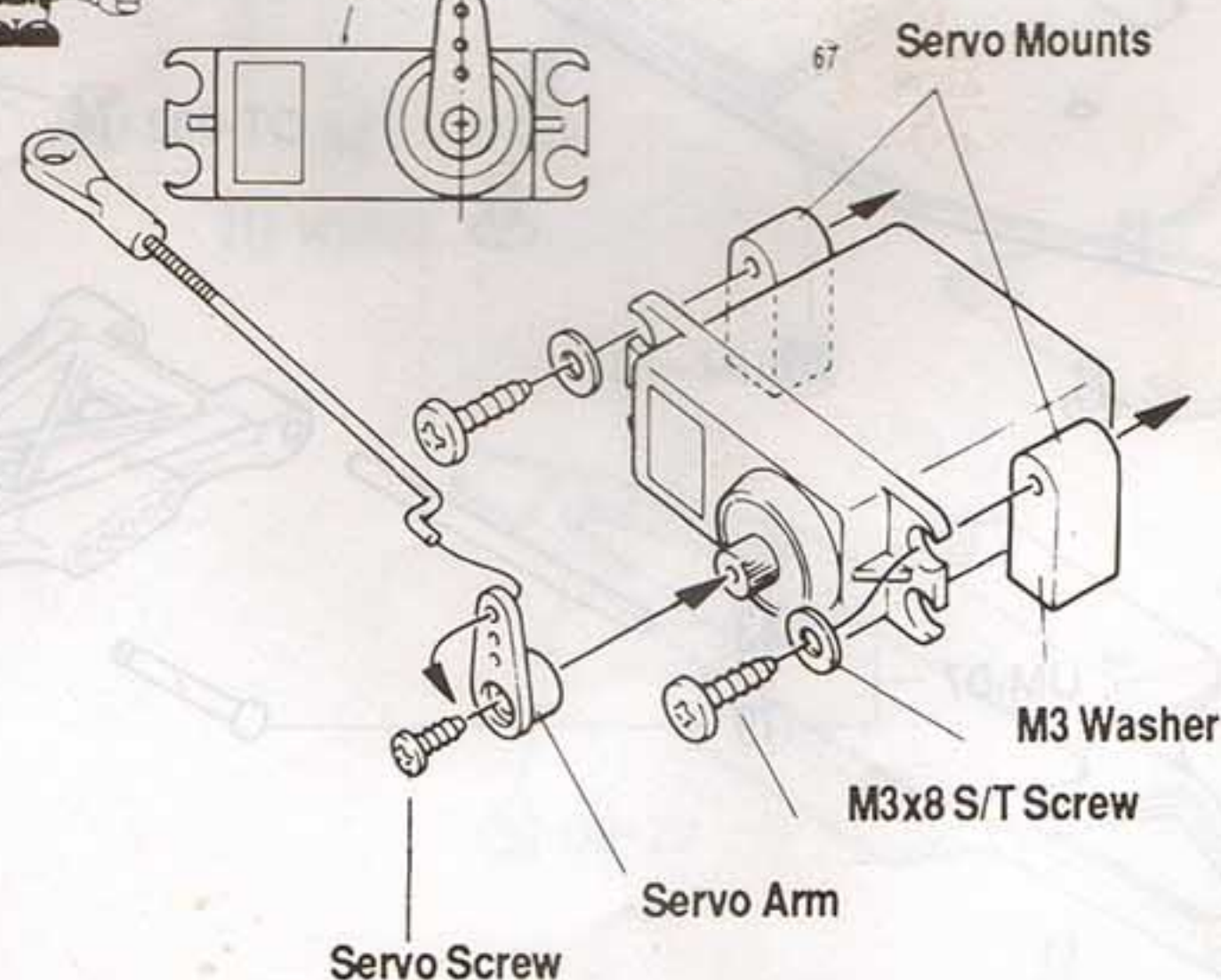
83 Servo Rod



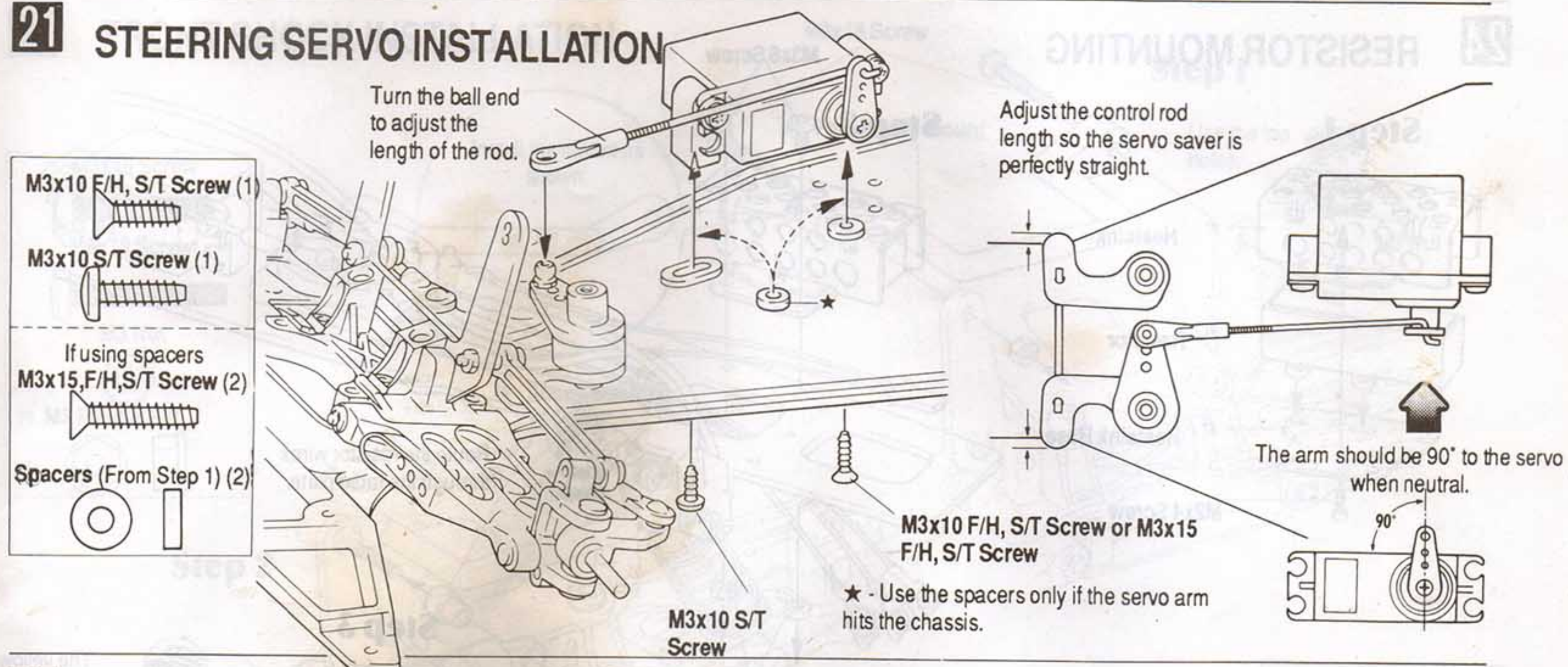
In the neutral position, the servo arm should be at 90° to the servo.

Step 3

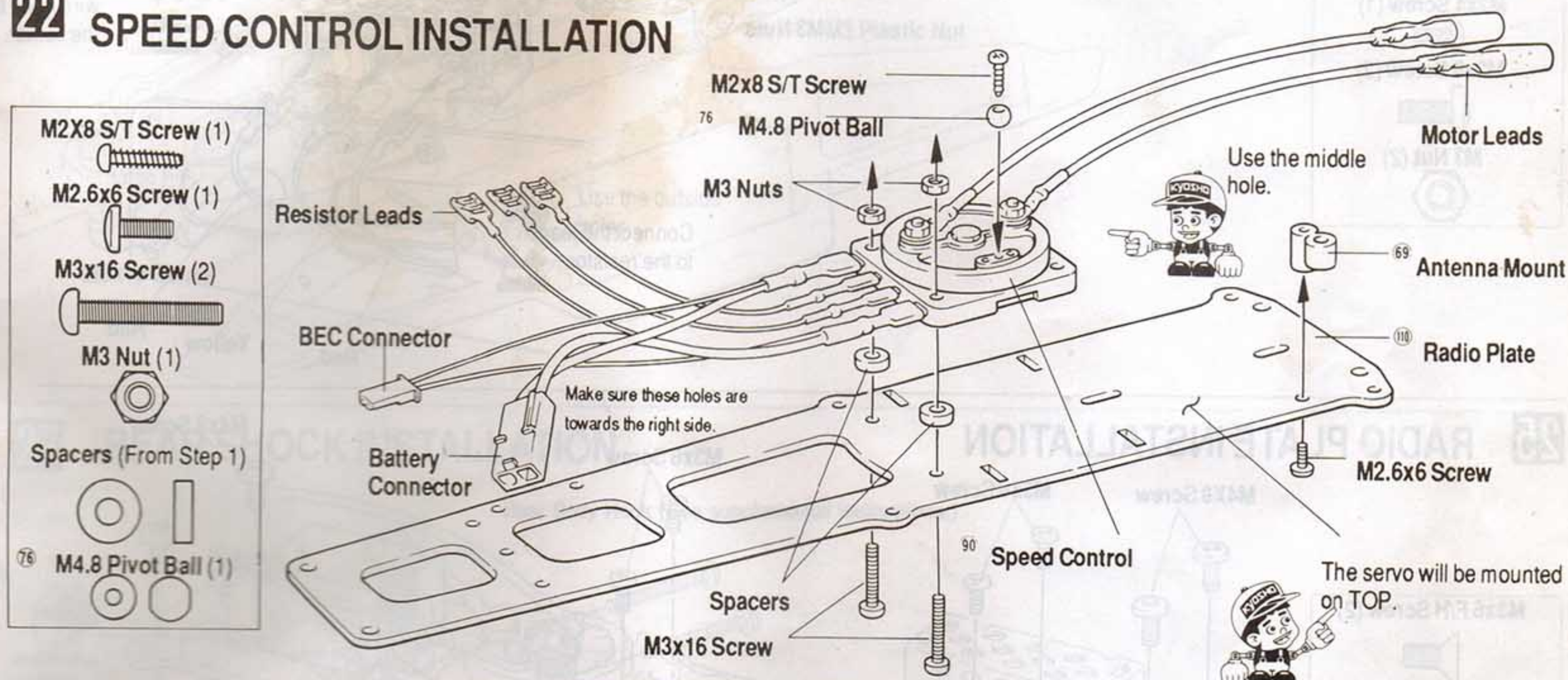
67 Servo Mounts



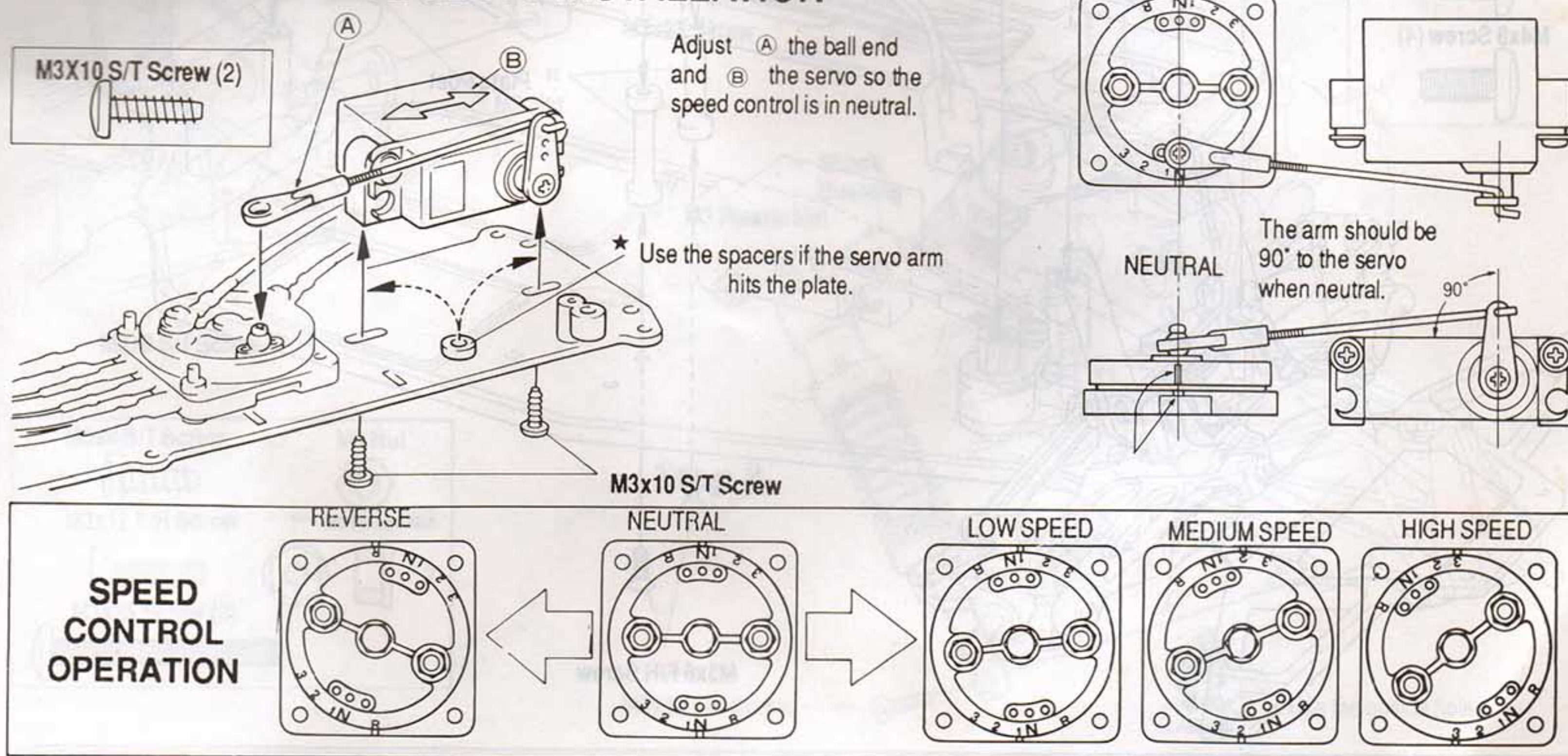
21 STEERING SERVO INSTALLATION



22 SPEED CONTROL INSTALLATION

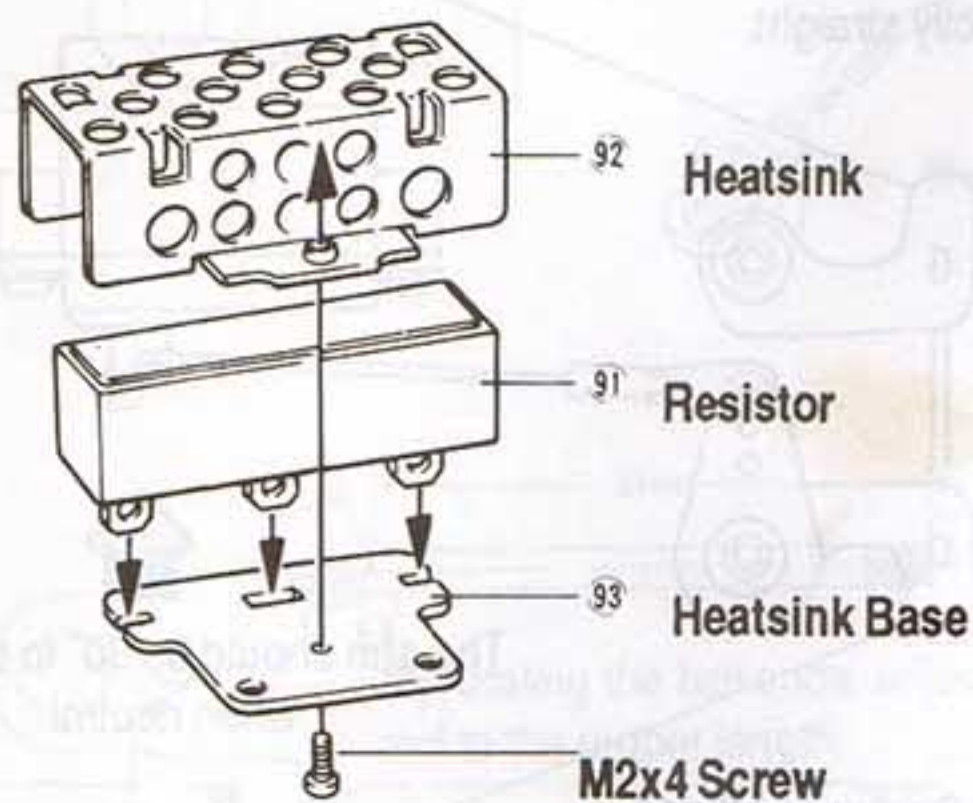


23 SPEED CONTROL SERVO INSTALLATION

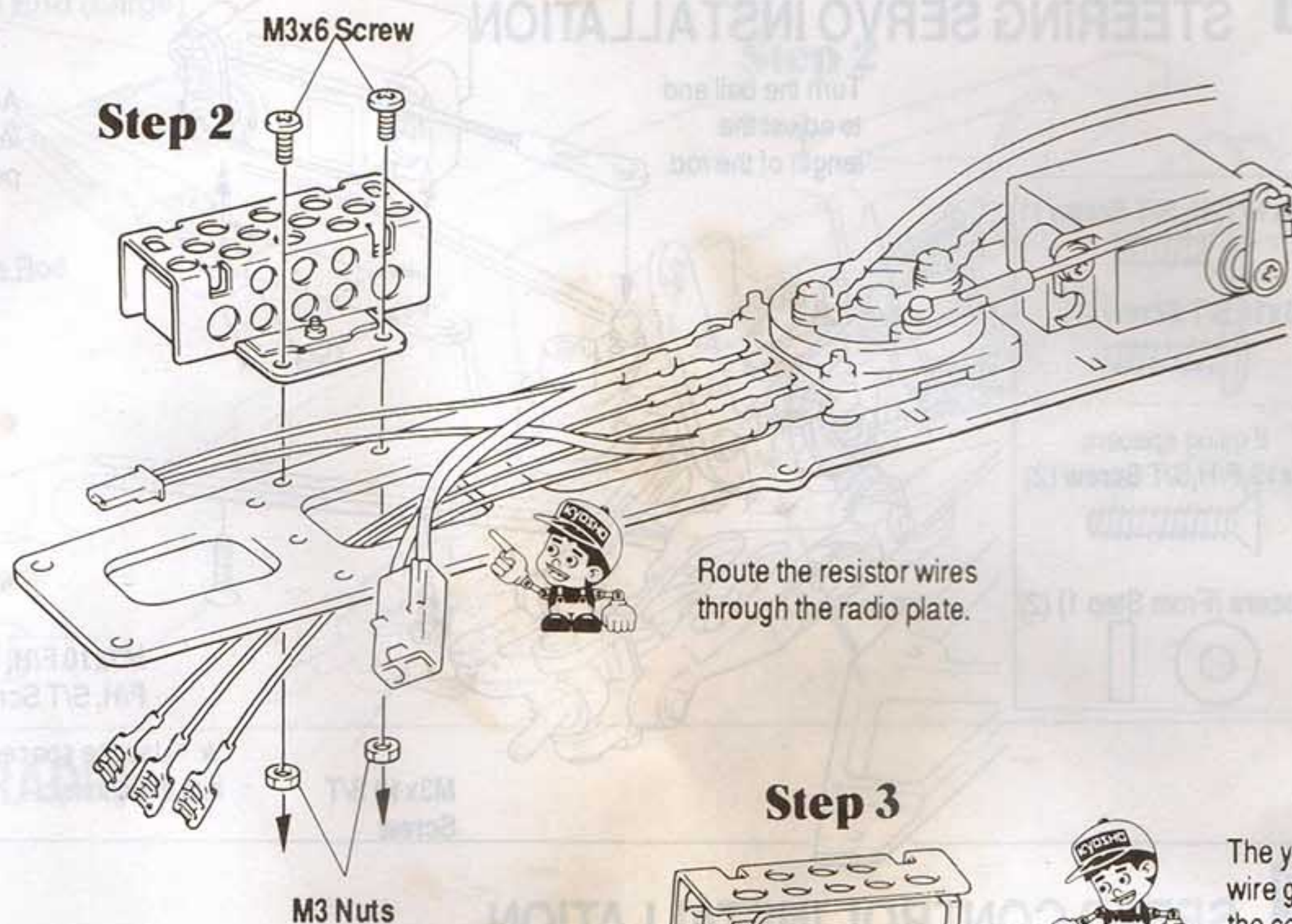


24 RESISTOR MOUNTING

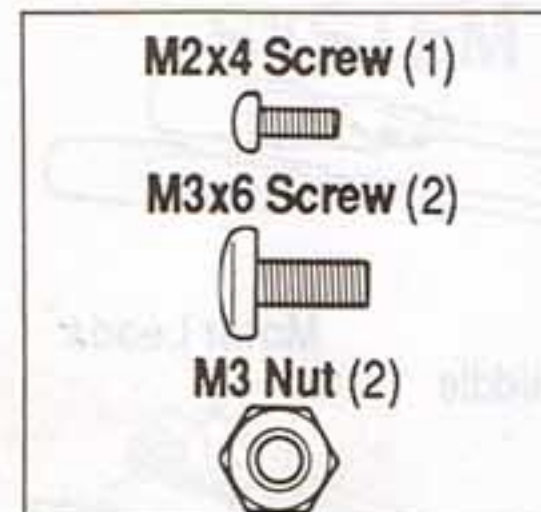
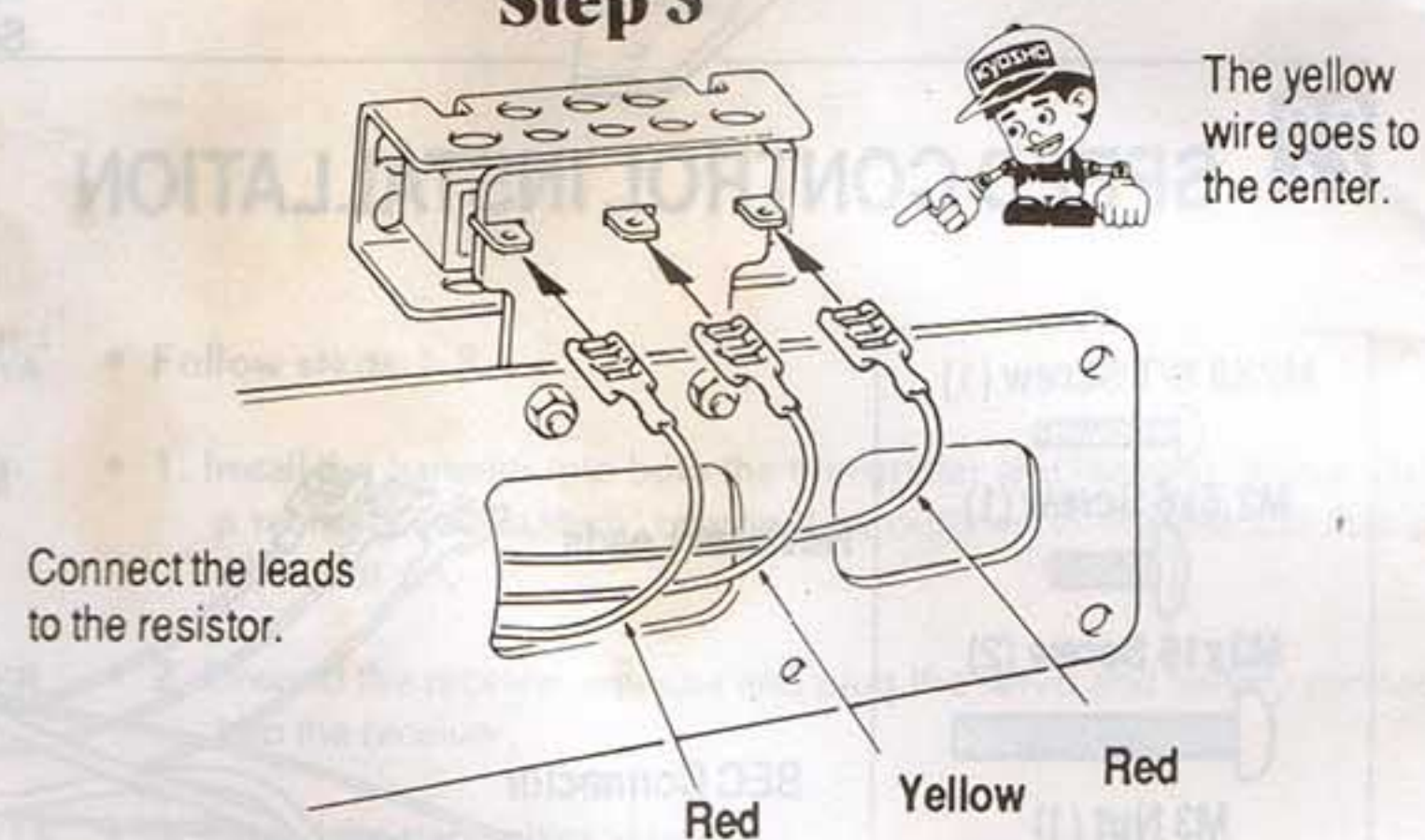
Step 1



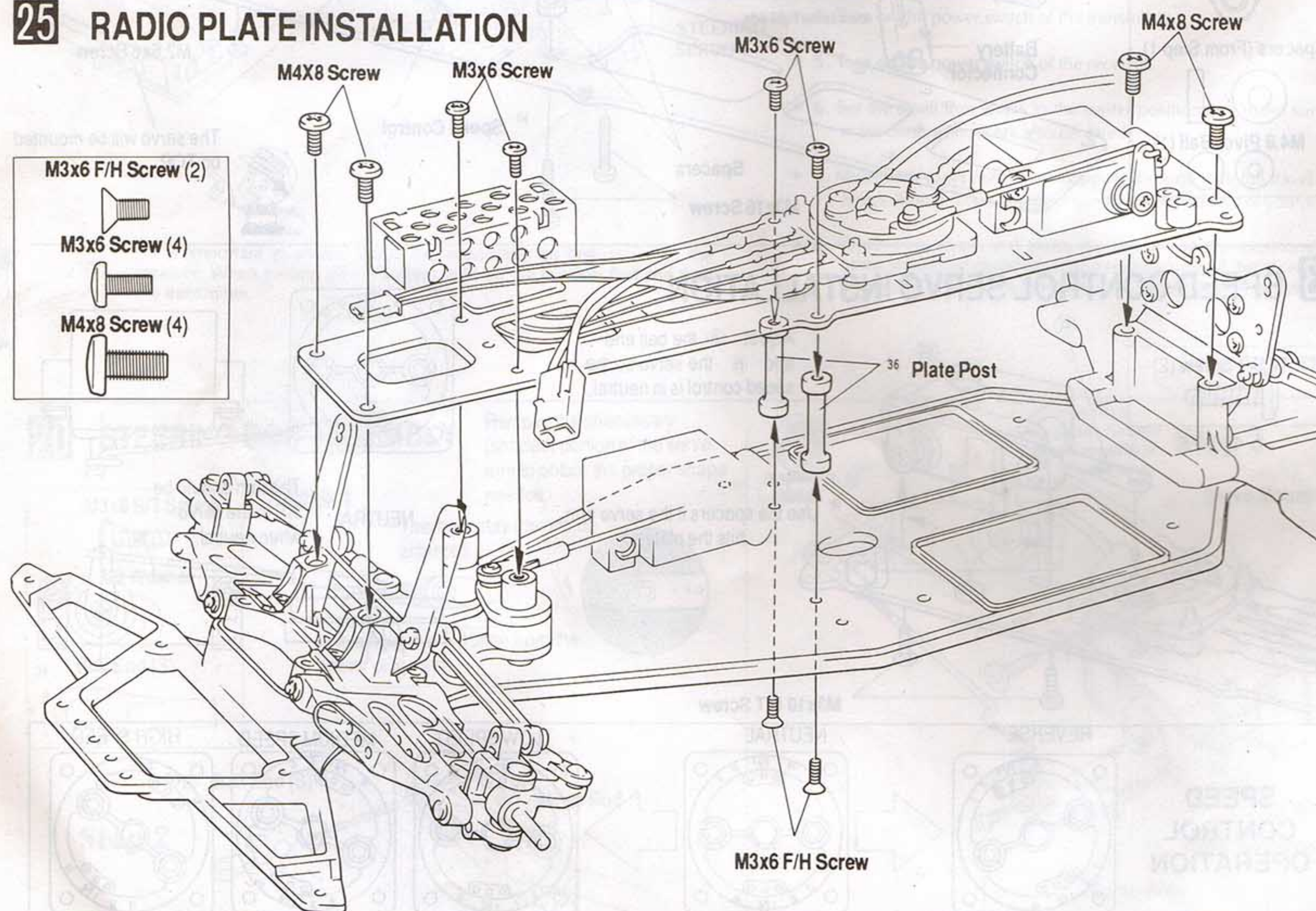
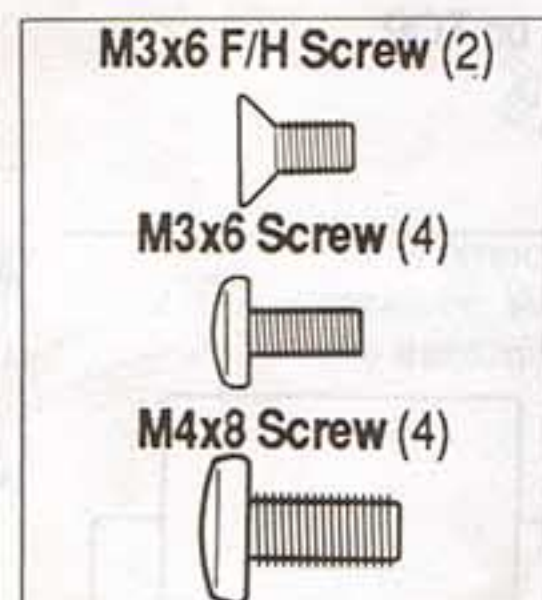
Step 2



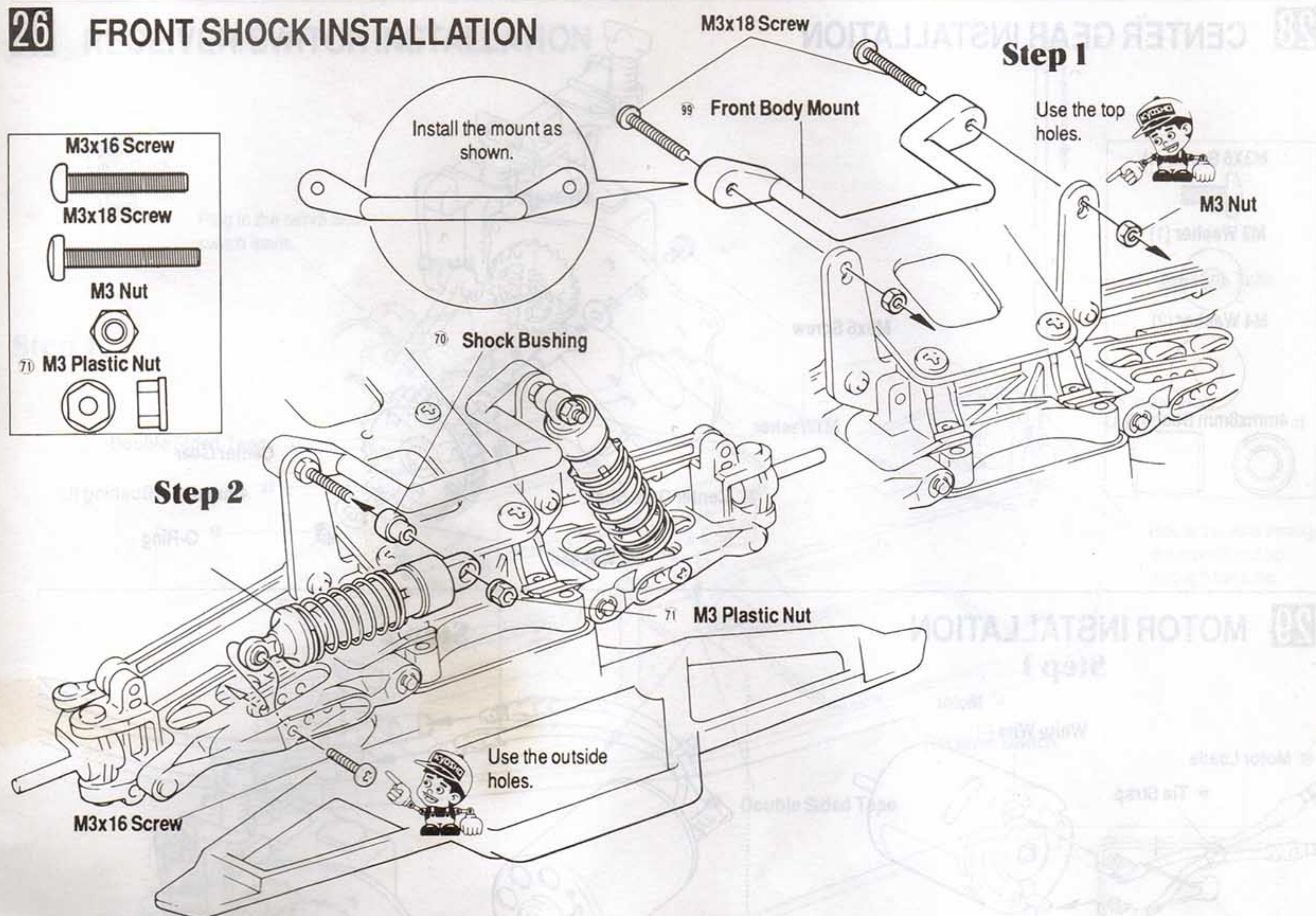
Step 3



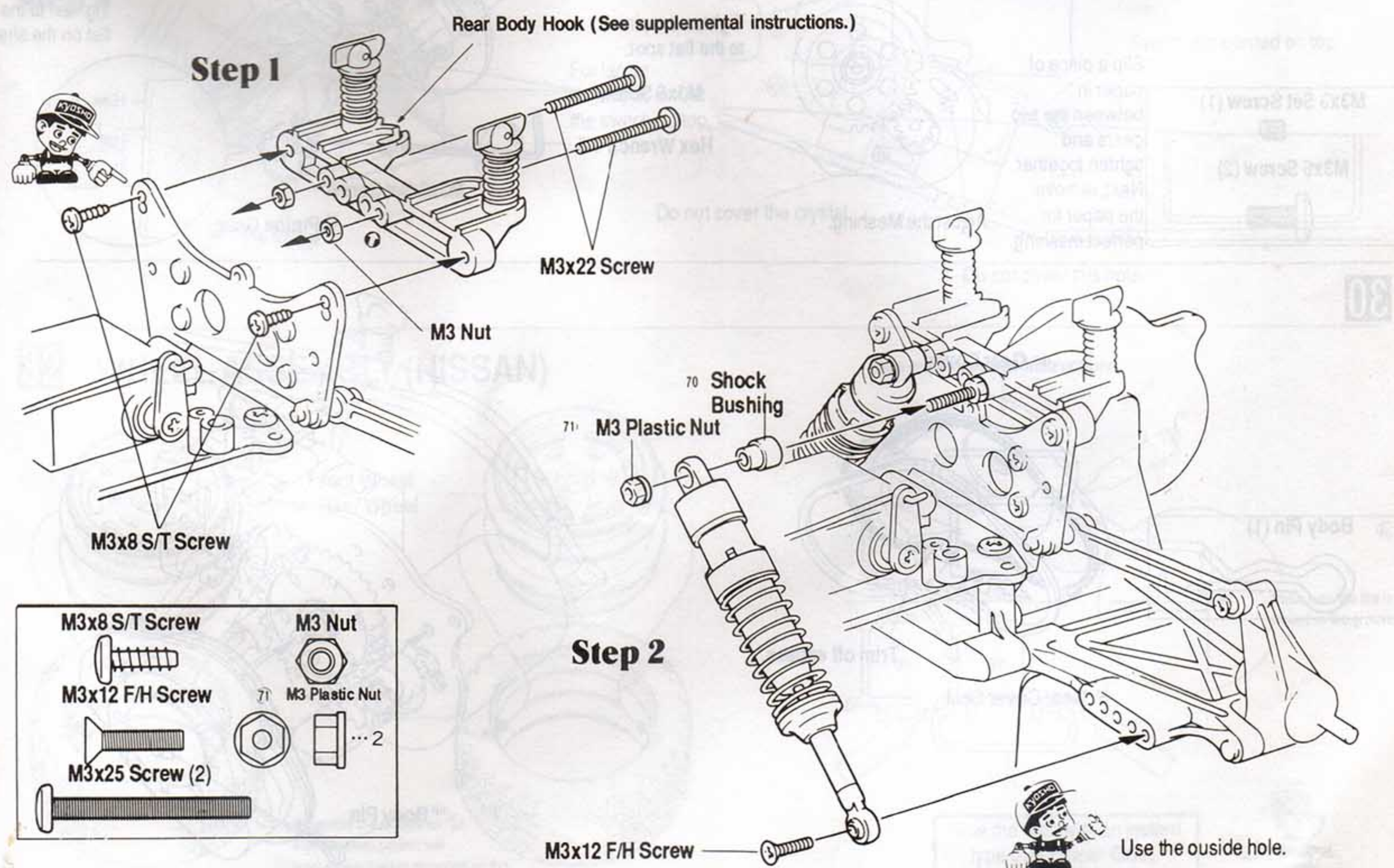
25 RADIO PLATE INSTALLATION



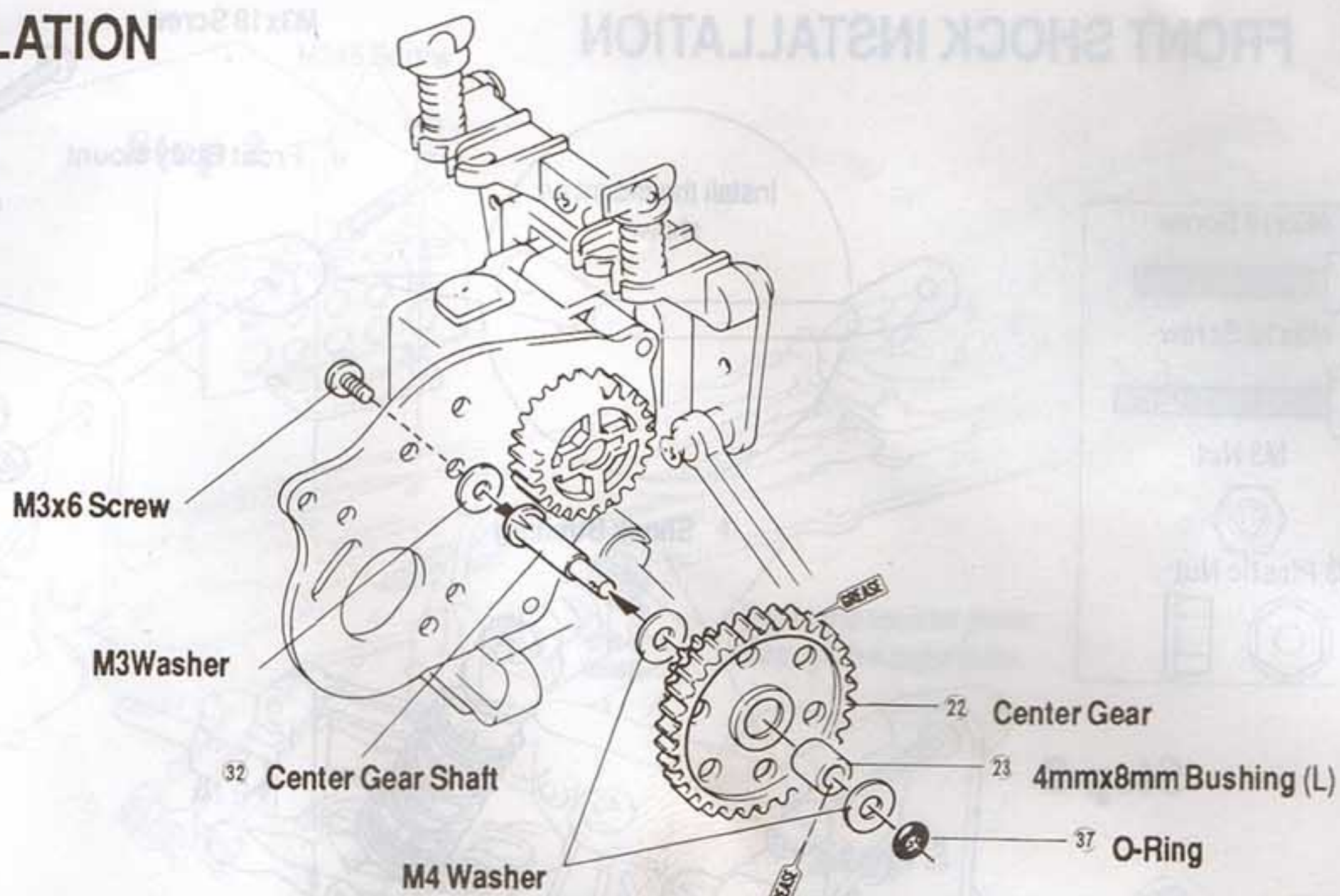
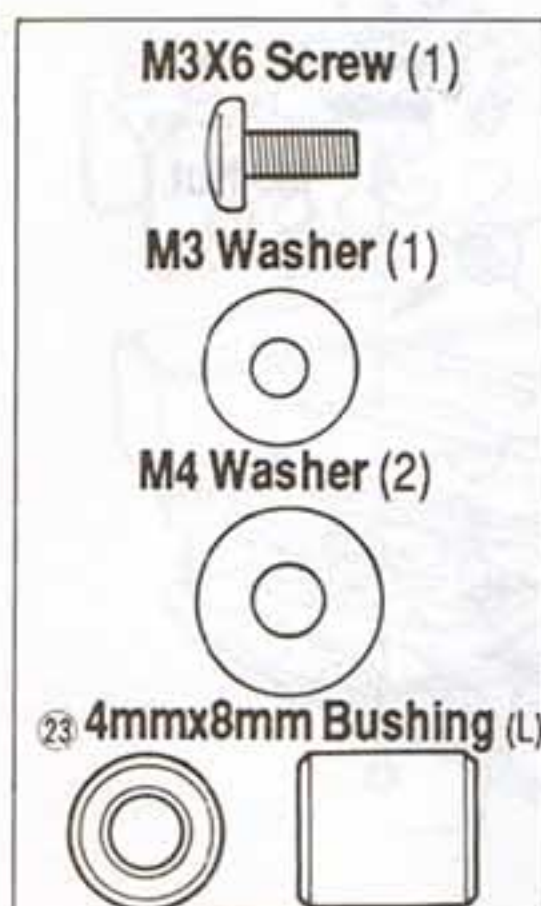
26 FRONT SHOCK INSTALLATION



27 REAR SHOCK INSTALLATION

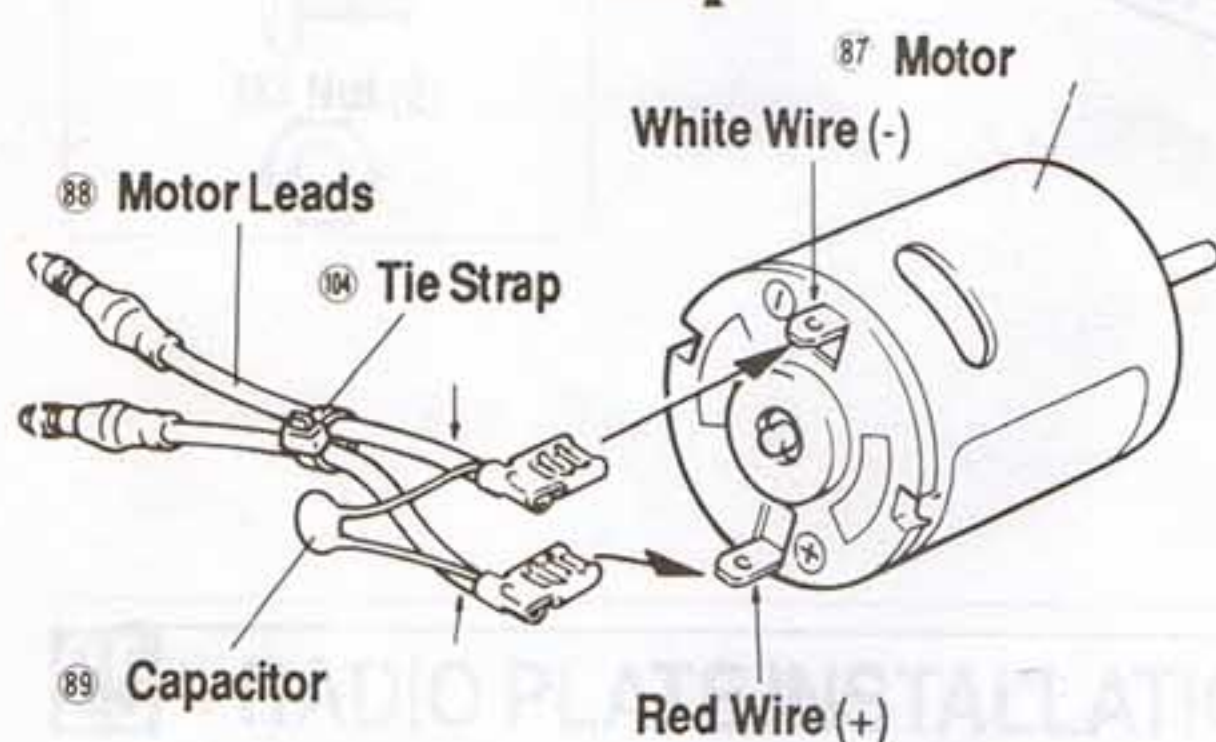


28 CENTER GEAR INSTALLATION



29 MOTOR INSTALLATION

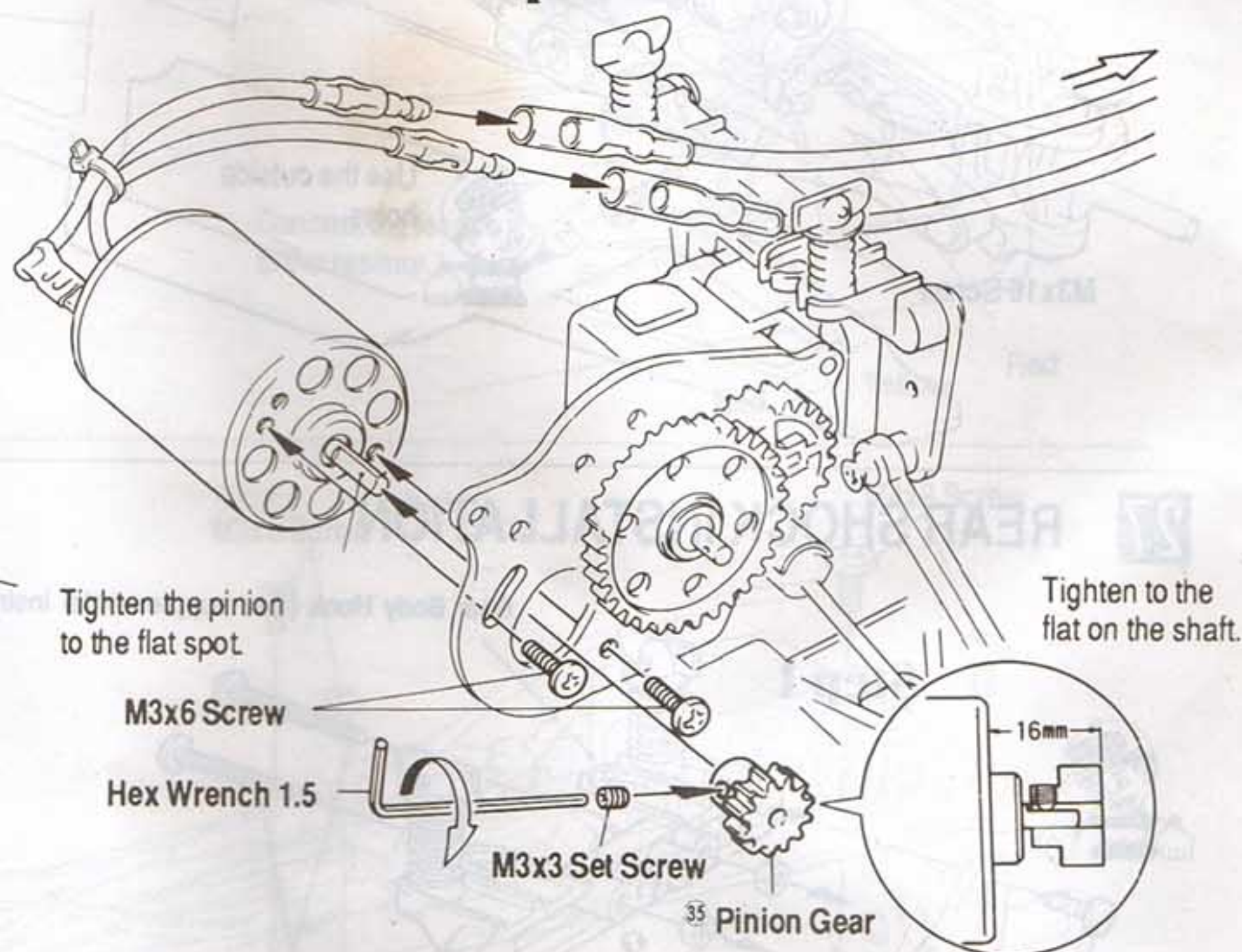
Step 1



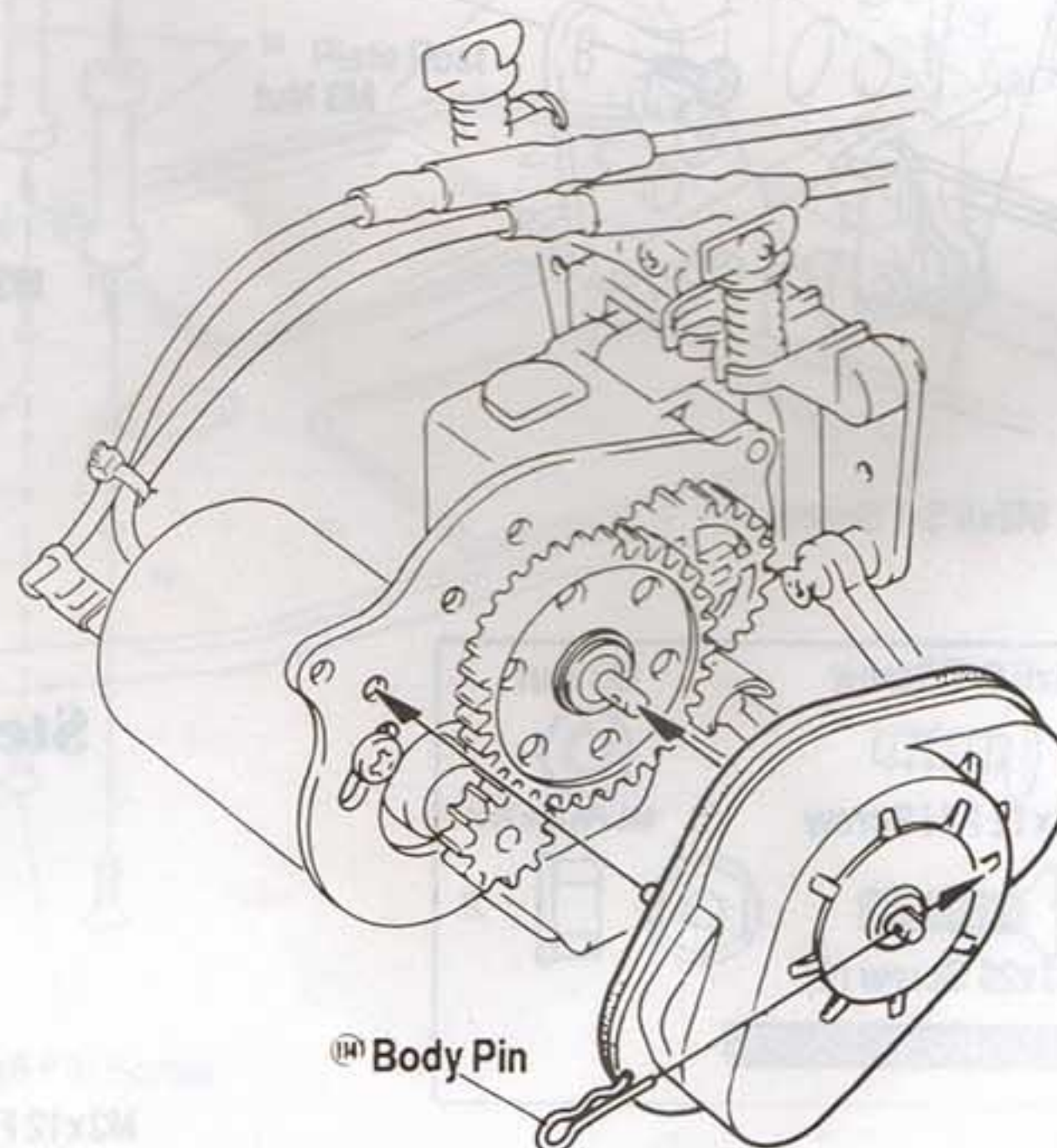
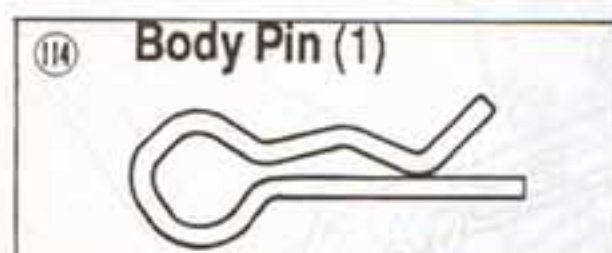
Slip a piece of paper in between the two gears and tighten together. Next, remove the paper for perfect meshing.



Step 2

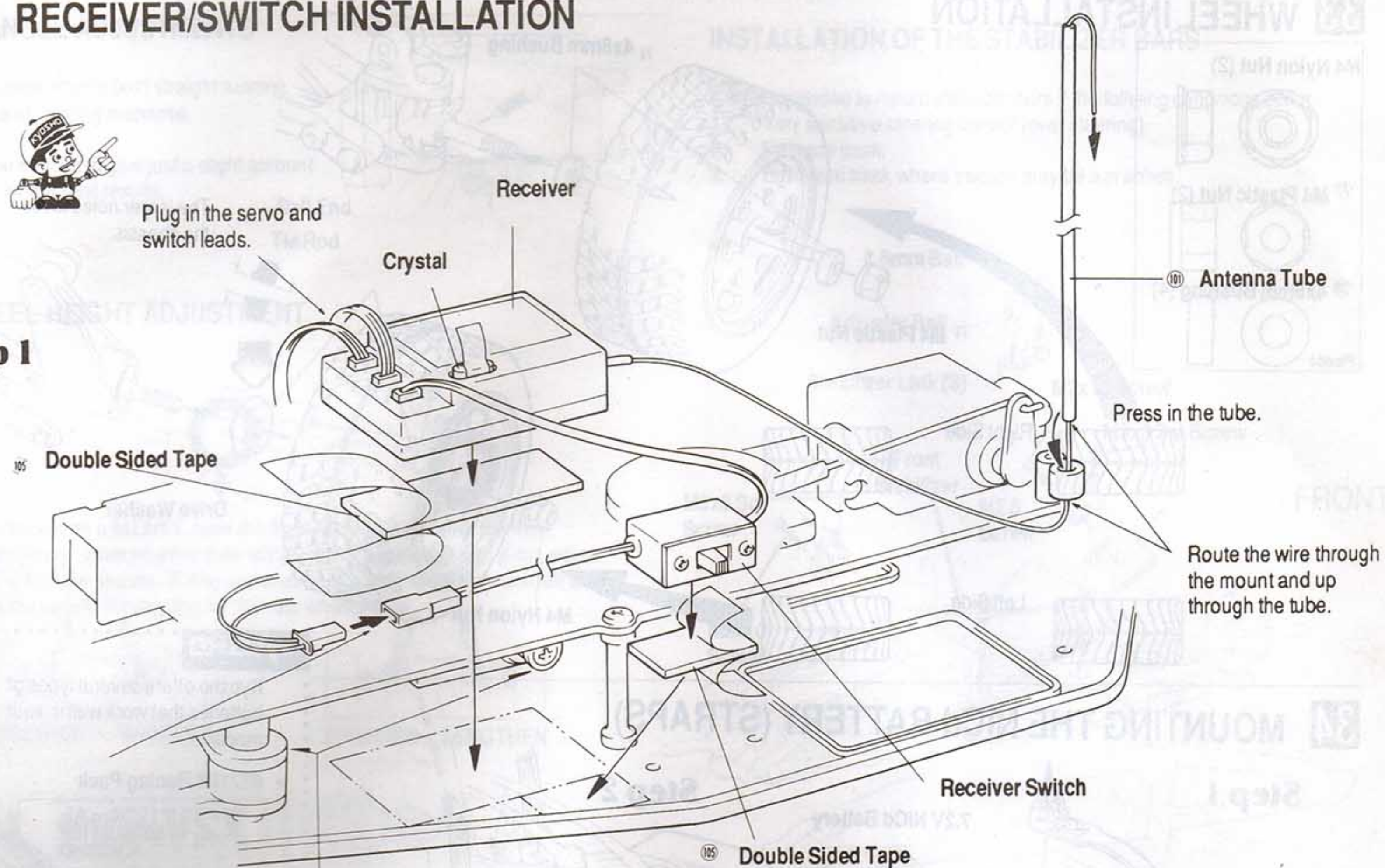


30

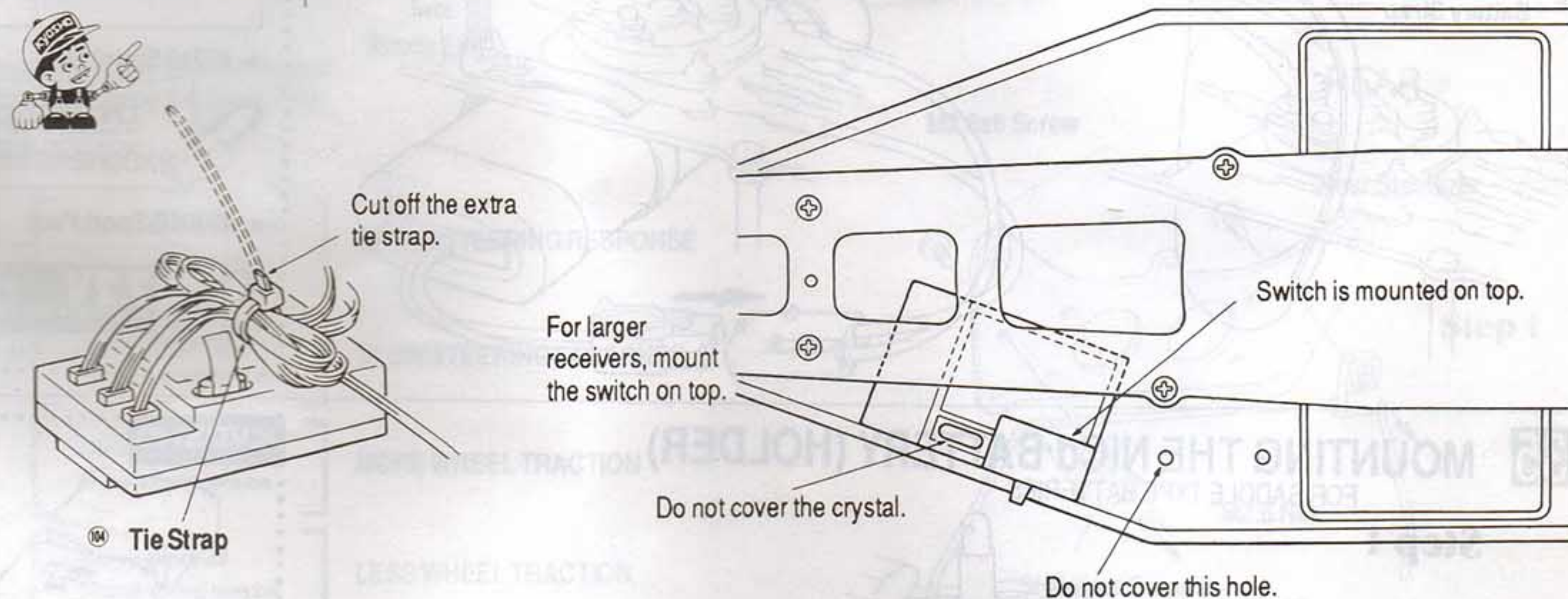


31 RECEIVER/SWITCH INSTALLATION

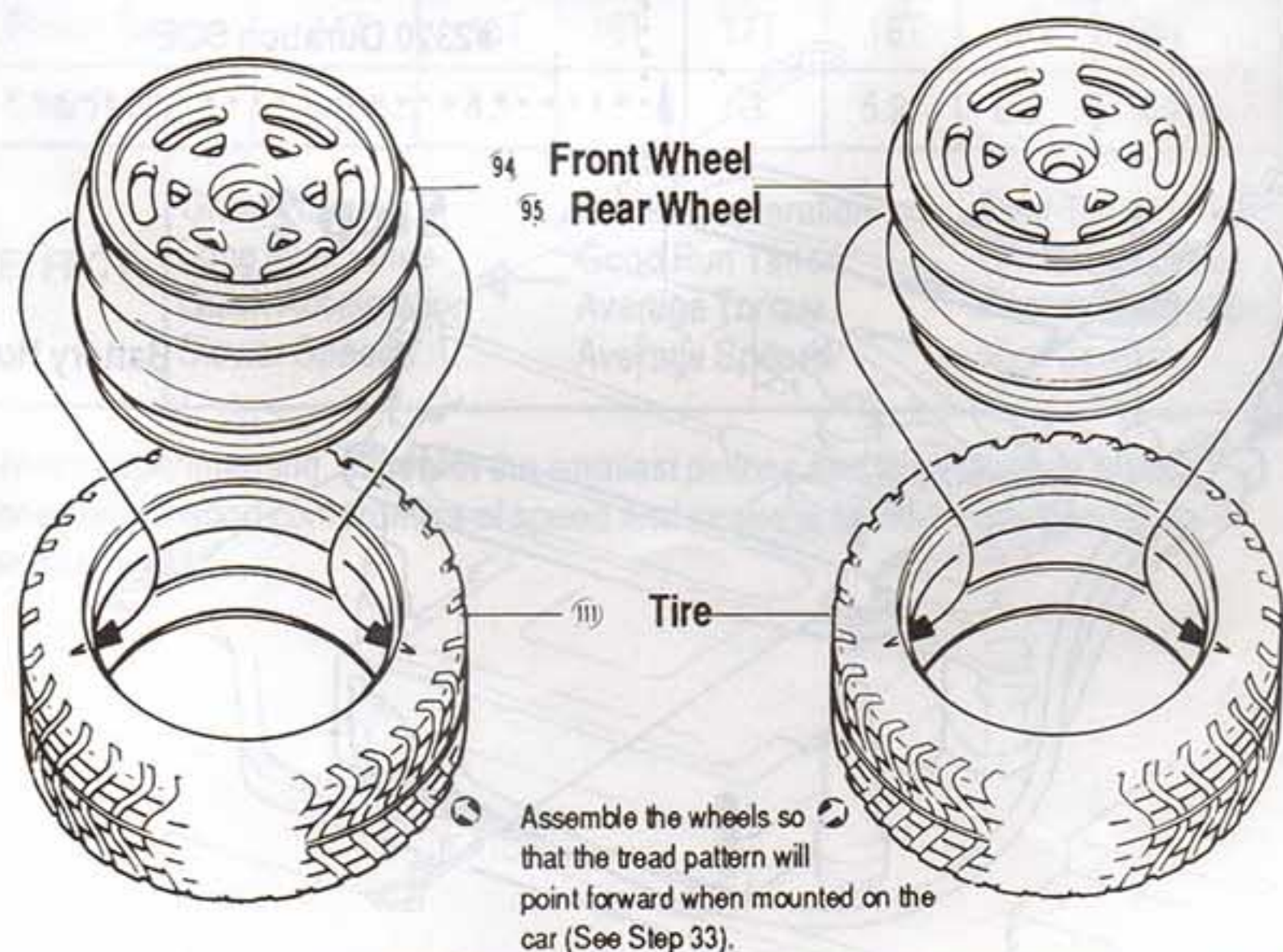
Step 1



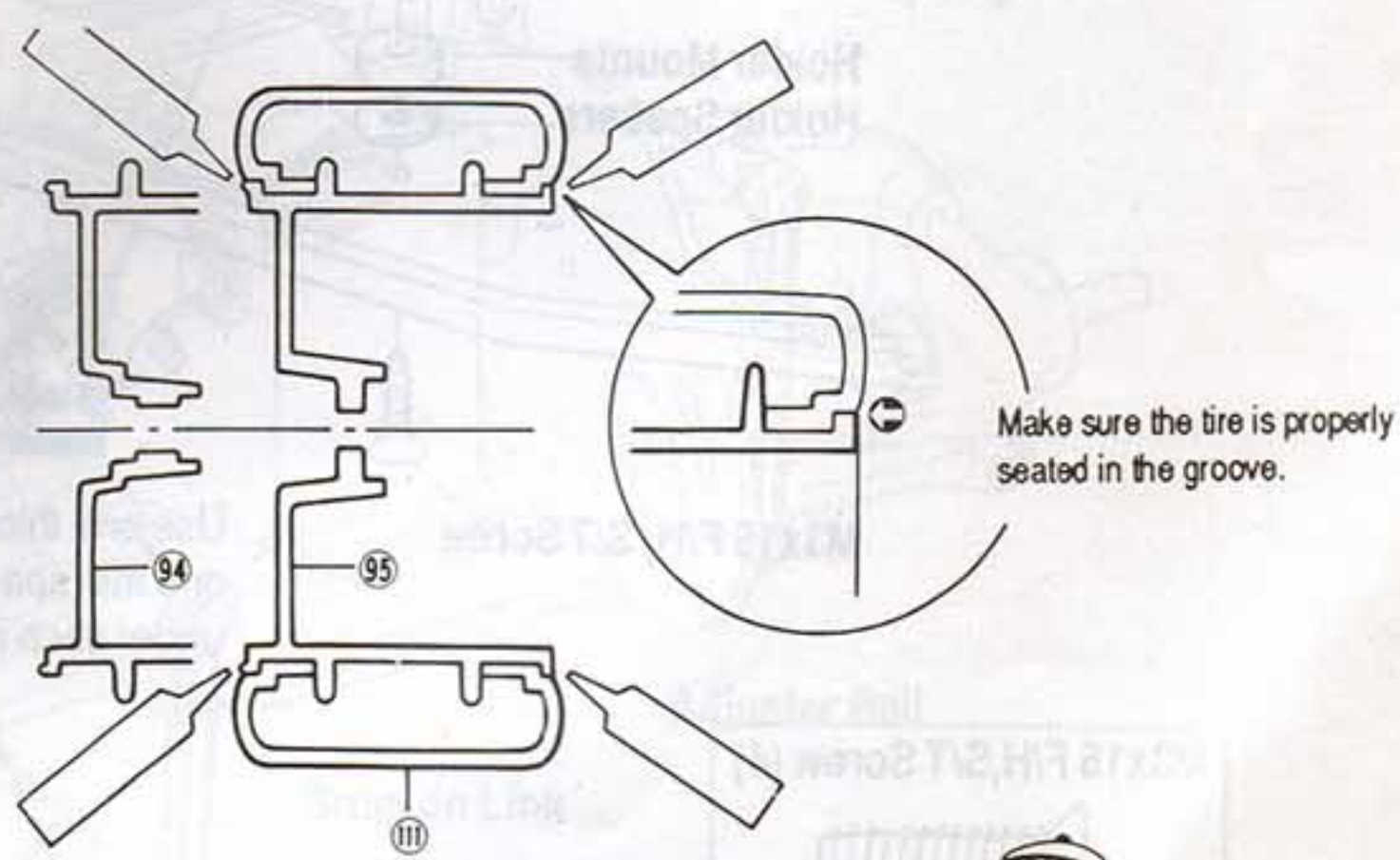
Step 2



32 WHEEL ASSEMBLY (NISSAN)



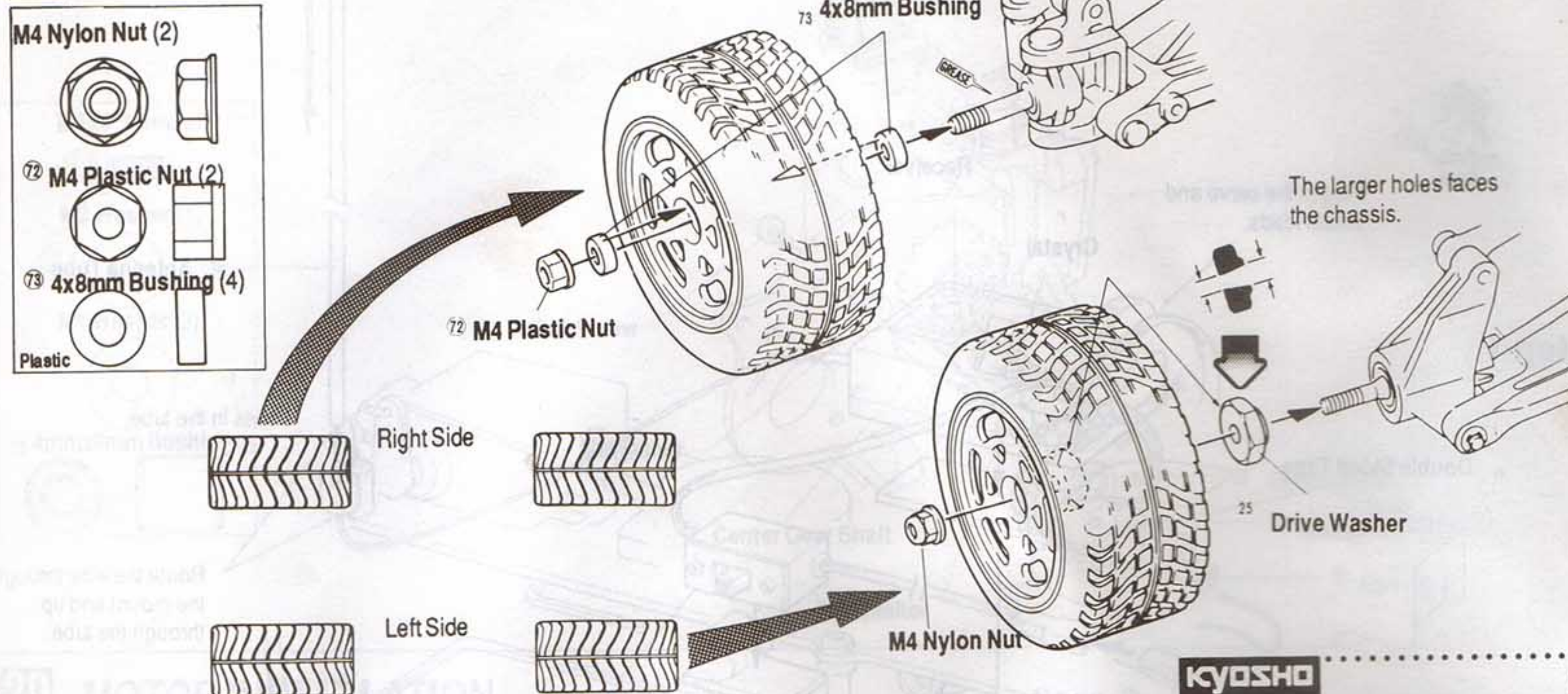
See supplemental instructions.



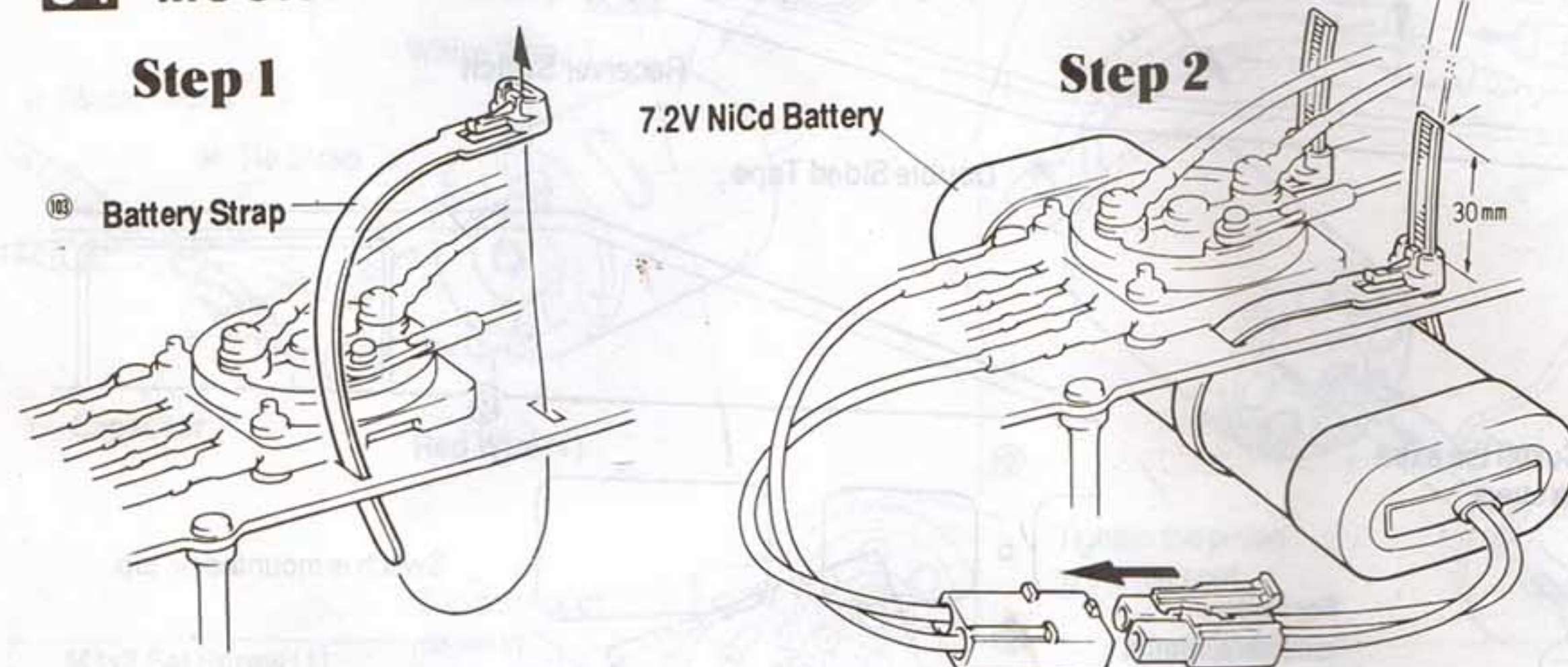
Glue the tires with an instant type glue (Super Glue).



33 WHEEL INSTALLATION



34 MOUNTING THE NiCd BATTERY (STRAPS)



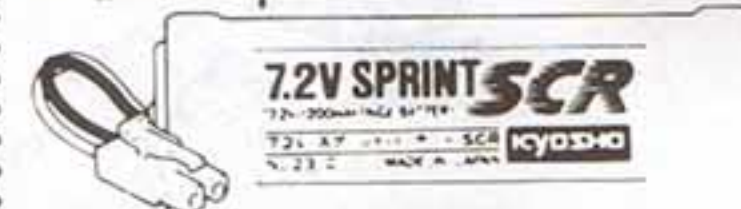
KYOSHO

Kyosho offers several types of batteries that work well in your model.

- #2218B Racing Pack



- #2310 Sprint SCR

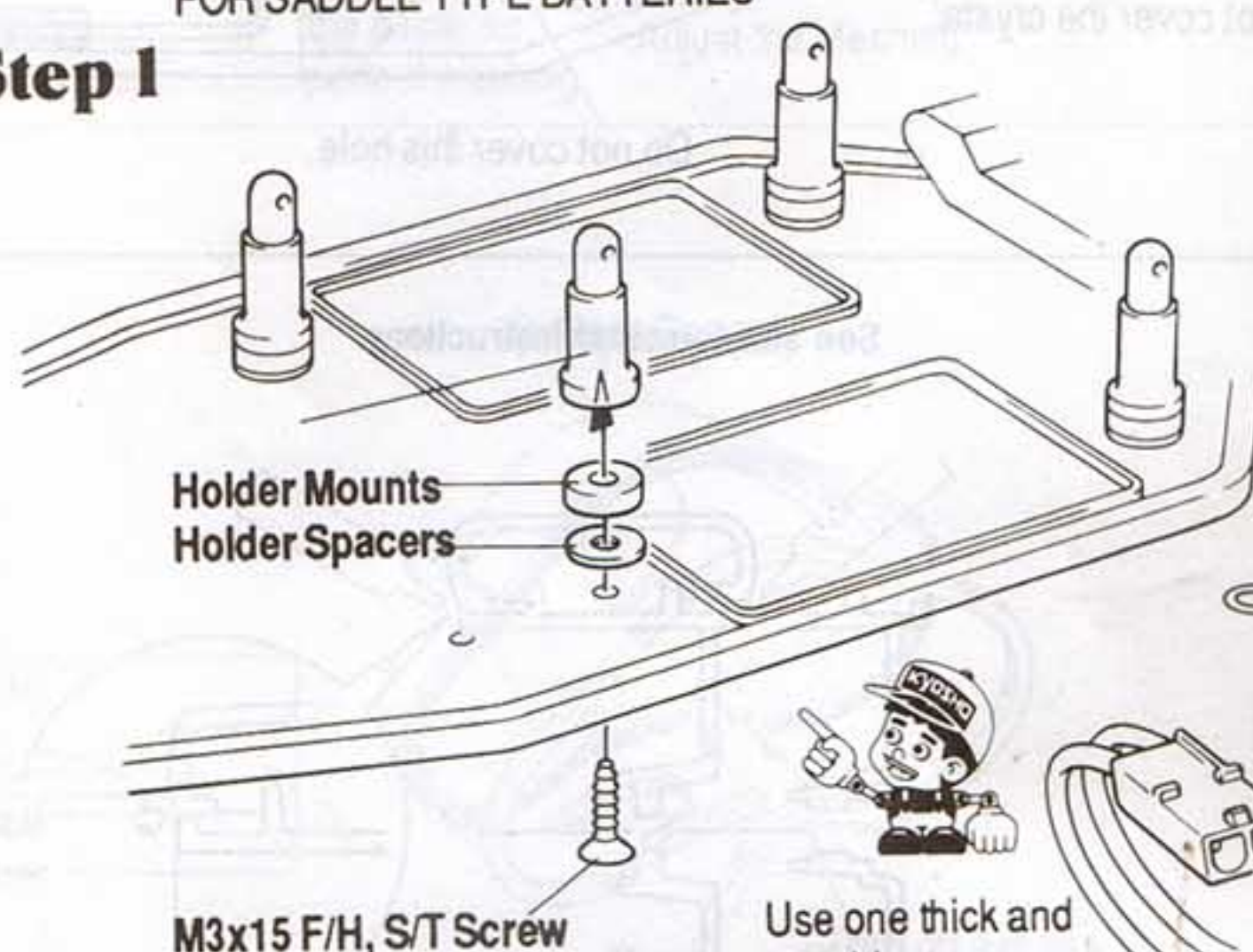


- #2306B Sport Pack

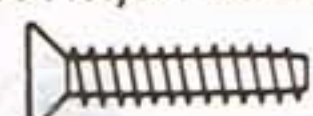


35 MOUNTING THE NiCd BATTERY (HOLDER) FOR SADDLE TYPE BATTERIES

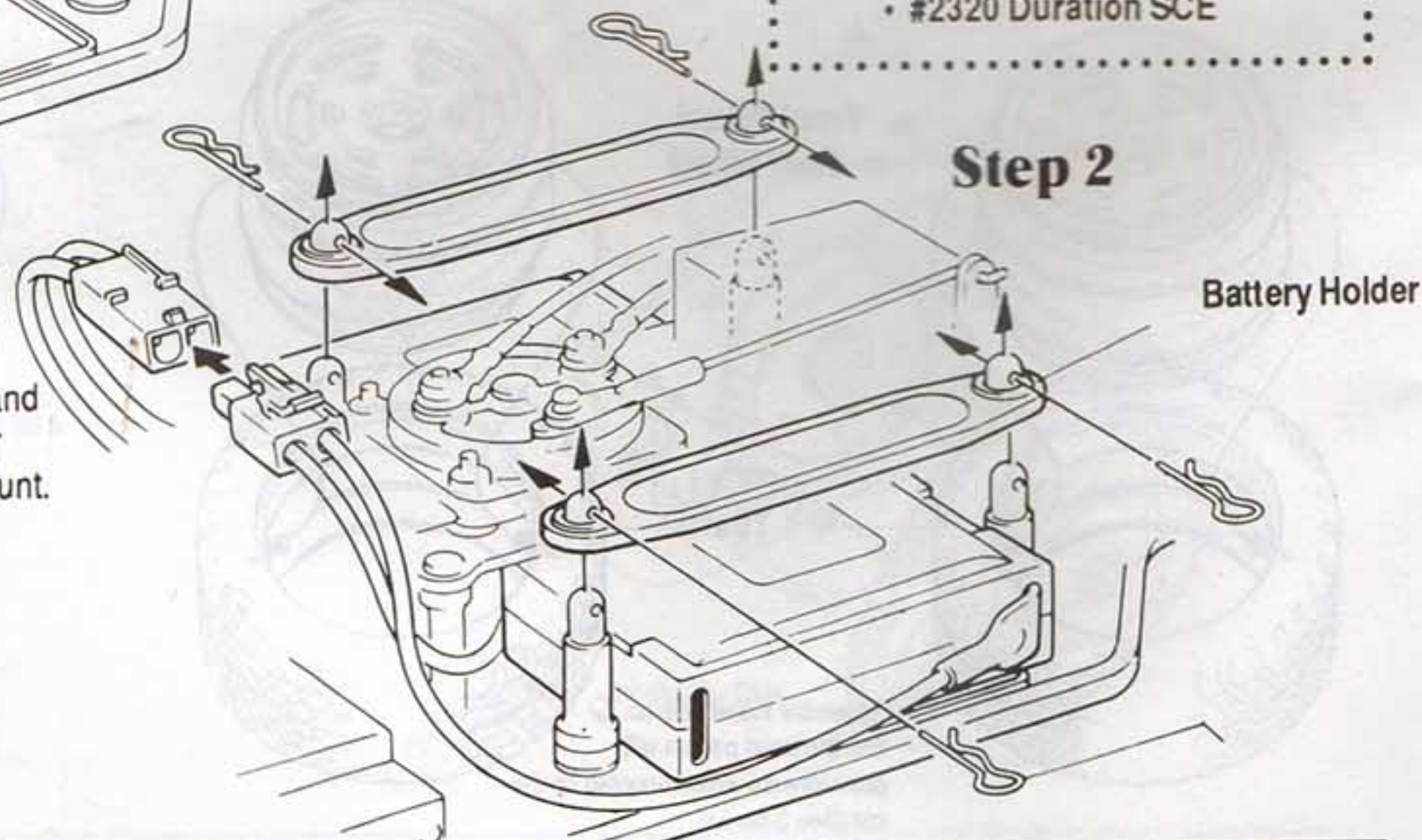
Step 1



M3x15 F/H, S/T Screw (4)



Step 2



KYOSHO



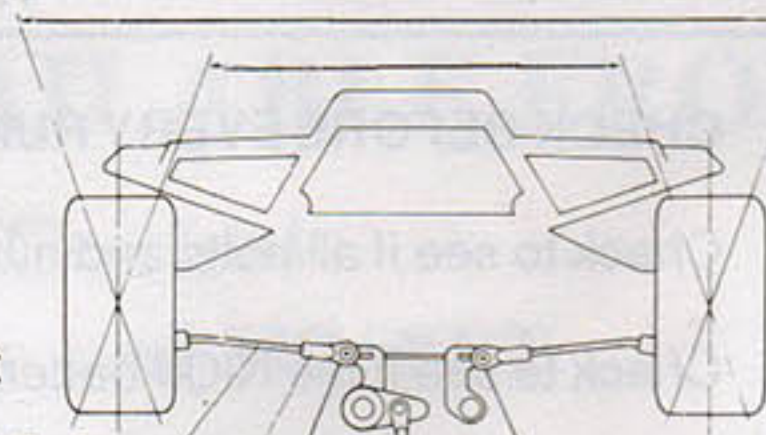
- #2331 Sprint SCR
- #2320 Duration SCE

BASIC ADJUSTMENT GUIDE

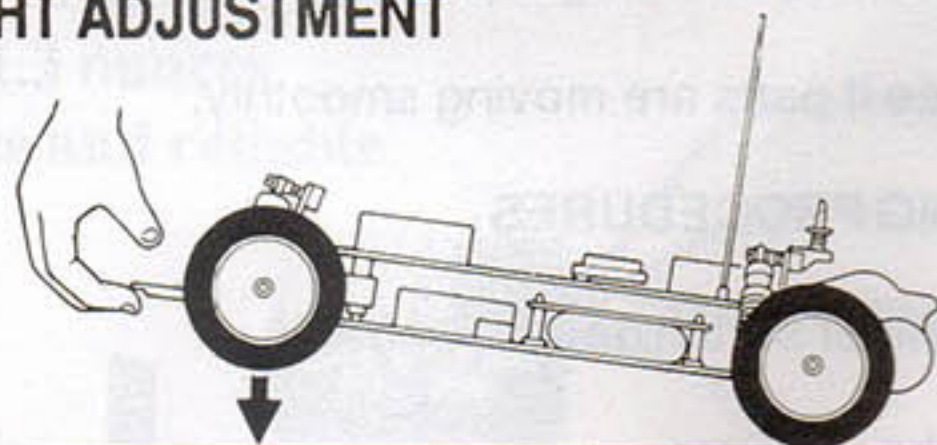
TOE ANGLE ADJUSTMENTS

The toe angle effects both straight running stability and steering response.

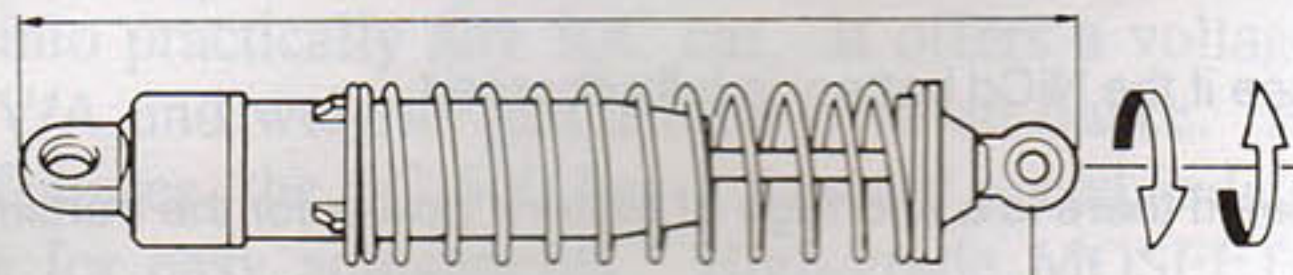
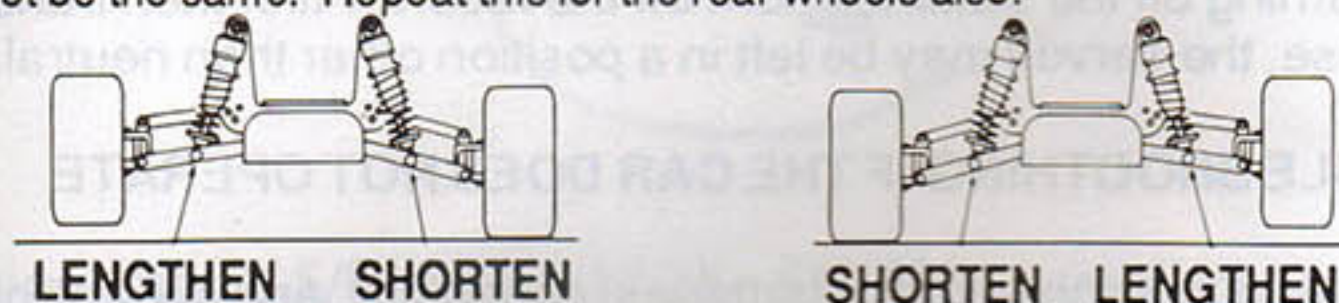
Adjust the tie rods to give just a slight amount of toe-in for the best results.



WHEEL HEIGHT ADJUSTMENT



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. Repeat this for the rear wheels also.



Hold onto the Shock Shaft and adjust the length by turning the Shock End.

ADJUSTMENT OF SHOCKS

FRONT	Lightweight shock oil Weak spring tension	SHARP STEERING RESPONSE
FRONT	Heavy shock oil Strong spring tension	SLOW STEERING RESPONSE
REAR	Lightweight shock oil Weak spring tension	MORE WHEEL TRACTION
REAR	Heavy shock oil Strong spring tension	LESS WHEEL TRACTION

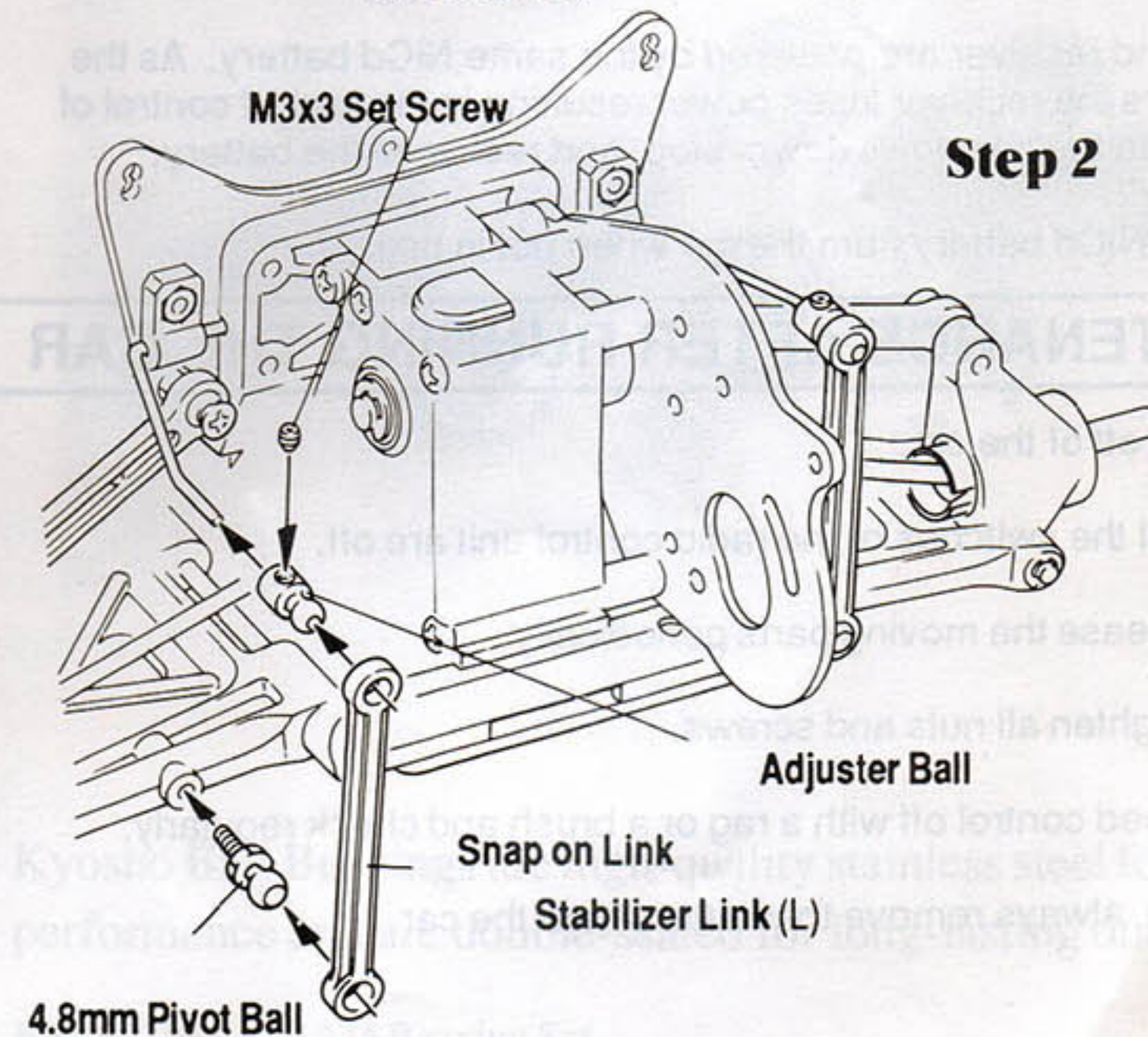
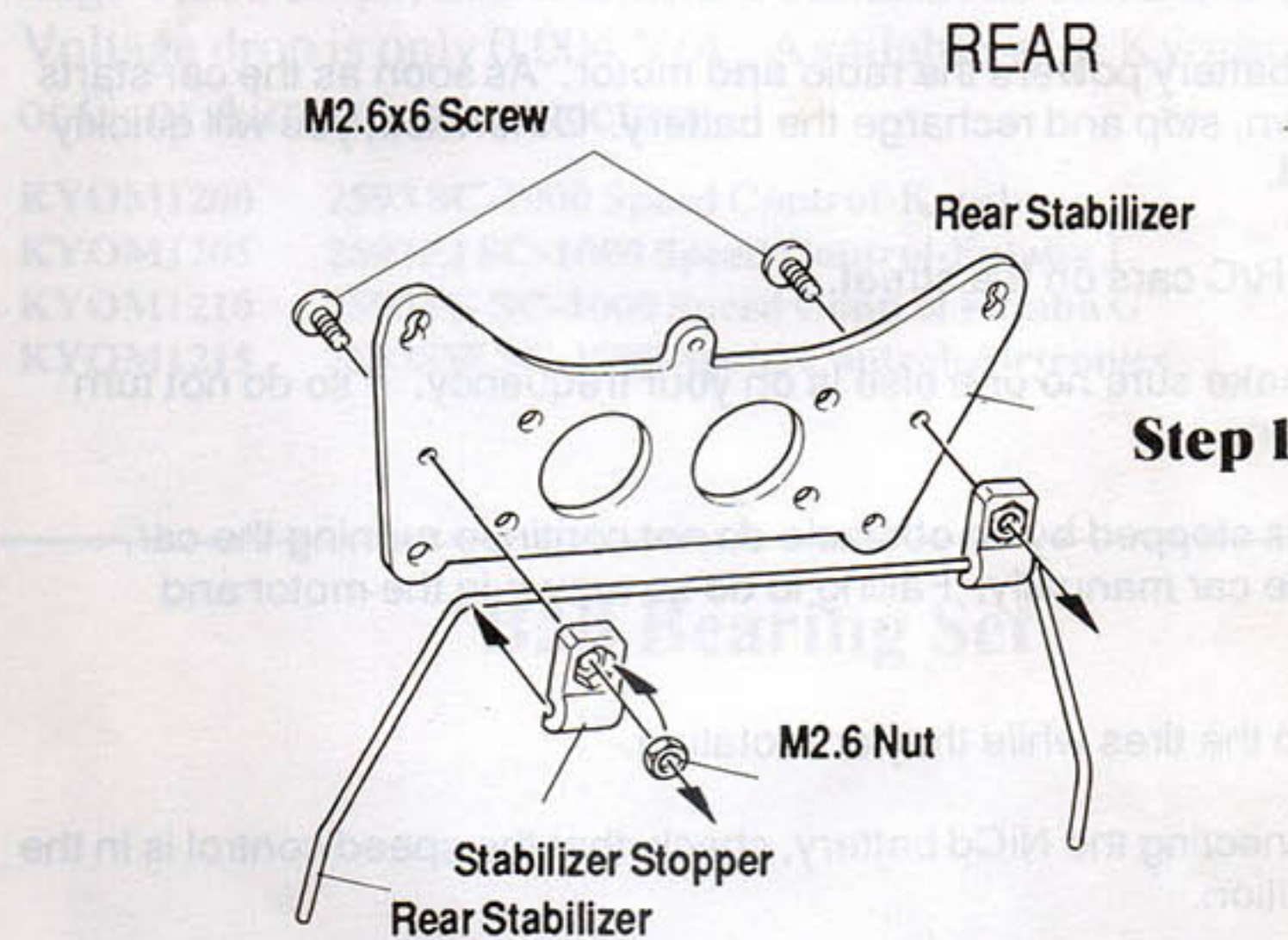
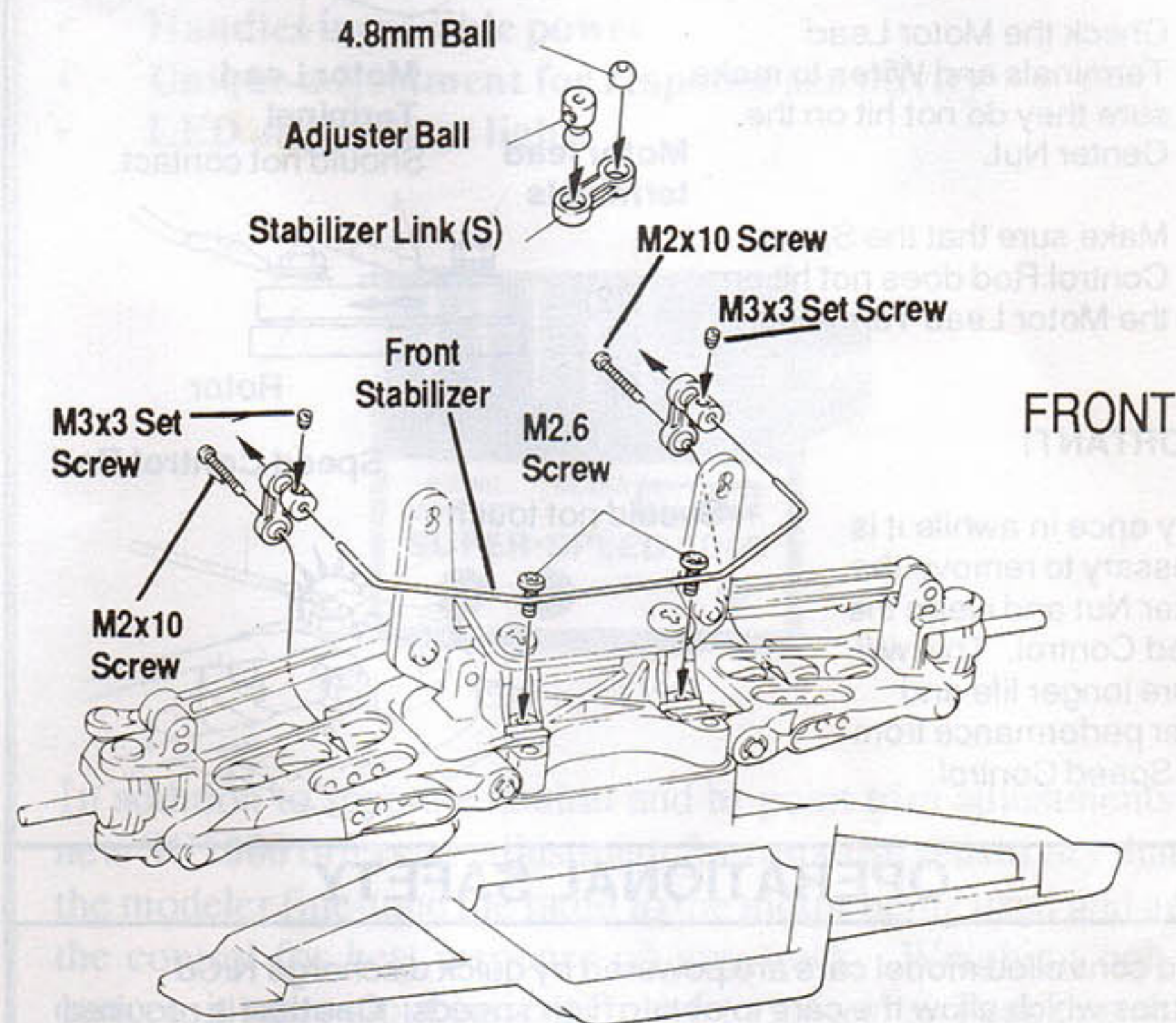
Pinion Gear	14T	15T	16T	17T	18T	19T	20T
Gear Ratio	8.8	8.2	7.7	7.3	5.9	6.5	6.2
EFFECT	Great Torque Long Run Times Quick Acceleration Slower Speeds						Poor Torque Short Run Times Poor Acceleration High Speeds

When experimenting, start with the smallest pinions and work towards the big ones until a good compromise of speed and torque is found for the track you are running.

INSTALLATION OF THE STABILIZER BARS

It is recommended to mount stabilizer bars if the following conditions occur:

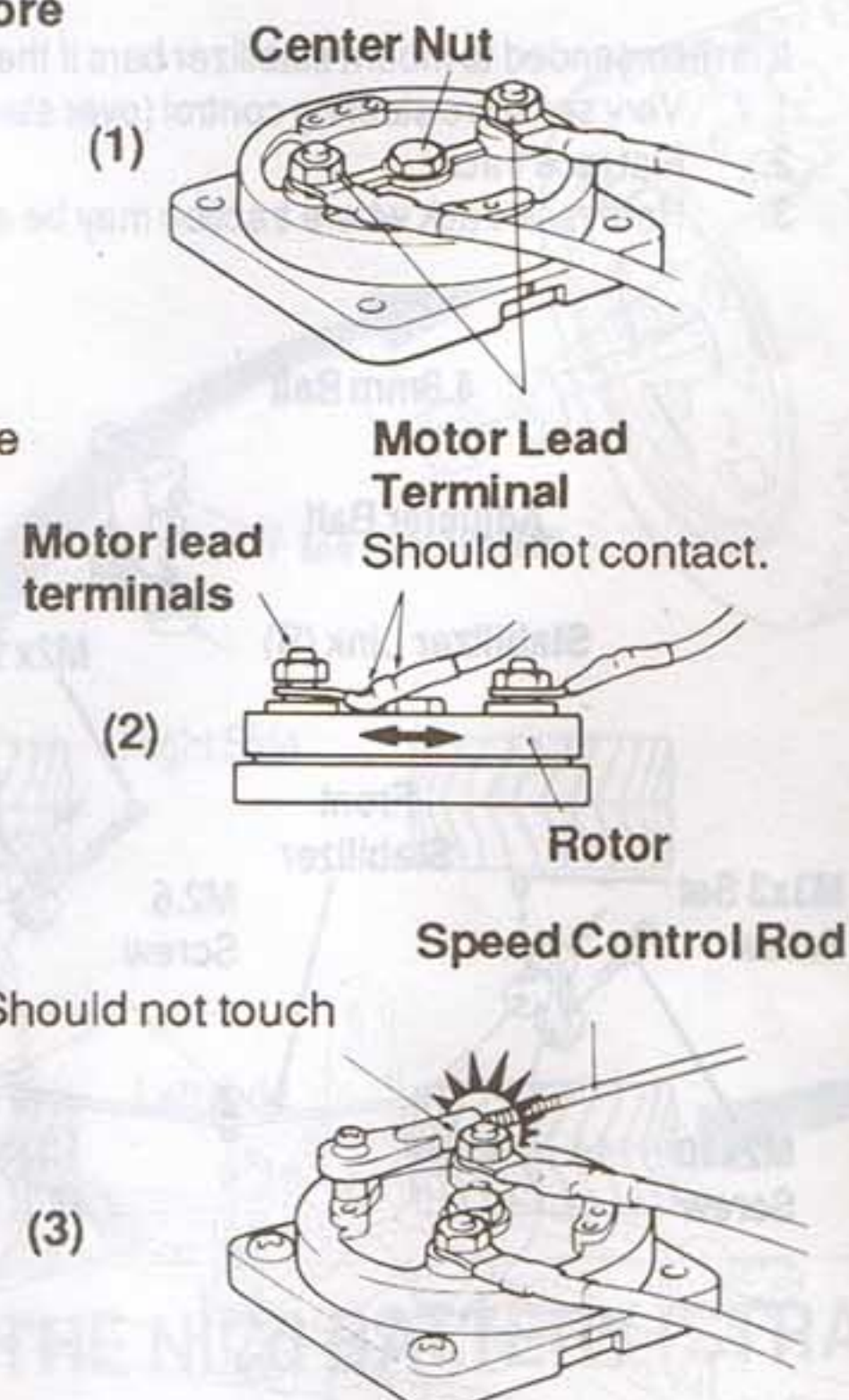
1. Very sensitive steering control (over steering)
2. Flat race track.
3. Hard race track where traction may be a problem.



SPEED CONTROL MAINTENANCE

Check the following points before running a Speed Control.

1. Make sure that the Center Nut and the Motor Lead Terminals are tight.
2. Check the Motor Lead Terminals and Wires to make sure they do not hit on the Center Nut.
3. Make sure that the Speed Control Rod does not hit on the Motor Lead Terminals



IMPORTANT!

Every once in awhile it is necessary to remove the Center Nut and clean the Speed Control. This will ensure longer life and higher performance from your Speed Control.

OPERATIONAL SAFETY

Radio controlled model cars are powered by quick discharge NiCd batteries which allow the cars to obtain high speeds. **Caution** is required when operating R/C cars.

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

Do not run R/C cars on the street.

Check to make sure no one else is on your frequency. If so do not turn your radio on.

If your car is stopped by an obstacle do not continue running the car. Remove the car manually. Failing to do so may ruin the motor and wiring.

Do not grab the tires while they are rotating.

Before connecting the NiCd battery, check that the speed control is in the neutral position.

The motor and receiver are powered by the same NiCd battery. As the battery lowers the receiver loses power resulting in the loss of control of the car. When the car slows down, stop, and recharge the battery.

Remove the NiCd battery from the car when not in use..

MAINTENANCE AFTER RUNNING THE CAR

Wipe the dirt off of the car.

Make sure all the switches of the radio control unit are off.

Clean and grease the moving parts periodically.

Check and tighten all nuts and screws.

Wipe the speed control off with a rag or a brush and check regularly.

After running, always remove the battery from the car.

RUNNING

CHECK BEFORE EVERY RUN

Check to see if all bolts and nuts are tightened firmly.

Check to see if the NiCd battery is fully charged.

Check to see if the steering and speed control is in proportion to your control of the transmitter.

Check to see that all wiring is properly insulated.

Check to see if parts are moving smoothly.

OPERATING PROCEDURES

Turn transmitter switch on.

Switch on the receiver.

Check to see if the radio system is working properly.

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 OPERATE

Poor contact of connectors of batteries, connector, and speed control.

Check to see if the NiCd battery is fully charged.

Check to see if there is a shortage of battery power for the transmitter.

Signal interference from other radios.

MOTOR CARE

BREAK-IN RUNNING

Breaking in your new motor is necessary to allow the brushes, commutator, and bushings to seat themselves into position. Break-in running should be done with no load placed on the motor; don't break it in while installed in your model. Since higher voltages tend to cause some vibration before break-in, the ideal break-in procedure is to run the motor at around 3-4 volts for a total period of 10 hours. If a source of 3 or 4 volts is unavailable, run the motor at a higher voltage for less time. Just remember, the lower the voltage, the better. Never exceed 7.2 volts for break-in.

After a particularly rough run in your model, the brushes and commutator may become dirty and start to bind. If this is the case, run the motor with a 7.2 volt battery for about 15-20 minutes with no load. This should restore the motor to its proper operating condition.

MAINTENANCE

To keep your motor in top condition, keep it clean and inspect it often. The motor was designed for use with battery packs. It is a good idea to avoid battery packs greater than 8.4 volts (7-cells). Using more voltage will shorten motor life.

Cleaning

1. To clean the inside working parts, we suggest one of the new spray motor cleaners such as "BLAST OFF" (follow the instructions supplied with the cleaner. Never spray lubricants such as WD-40 on your motor!
2. Oil the front and rear bushings with a light machine oil such as 3-IN-1 Oil. Don't allow any oil to get into the inside of the motor and contaminate the commutator.
3. Occasionally check the terminals for oxidation and other contaminants.

HOP-UP YOUR SCALE CAR WITH THESE GREAT PARTS AVAILABLE FROM YOUR DEALER

SC 500 Speed Control Performance, Durability, and MOSFET Technology

- Fits easily into most R/C cars
- Weights only 1.3 ounces
- Quick response and reliable performance



Measuring only 1-5/8" x 1" x 1", the SC 500 is small enough to fit easily into practically any R/C car. It offers a voltage drop of 0.015 V/A and weights just a little over an ounce. Among its many features, the SC 500 has a forward speed indicator lamp built-in for easy adjustments. High-grade MOSFETs provide exceptional performance and durability. Two of the MOSFETs are on the braking circuit for stop-on-a-dime braking response. The SC 500 also has trims for neutral and hi-point. With a maximum continuous current of 90 amps and a peak of 180 amps. Available with Kyosho, Futaba G and J, and Airtronics connectors.

KYOM1150	2592K SC-500 Speed Control-Kyosho
KYOM1155	2592FJ SC-500 Speed Control-Futaba J
KYOM1160	2592FG SC-500 Speed Control-Futaba G
KYOM1165	2592A SC-500 Speed Control-Airtronics

SC1000 Electronic Speed Control

The Best Quality for High-Performance Racers

- Handles incredible power
- Unique adjustment for response sensitivity
- LED adjustment light



In addition to separate neutral and hi-point trim adjustments, the new SC1000 offers an adjustment for response sensitivity that lets the modeler fine-tune the radio to the motor being used and adjust the control for best response on any track. Weighing only 1.4 ounces, it takes input current from 6 to 9.4 volts. Peak current is a huge 1,260 amps, and maximum continuous current is 210 amps. Voltage drop is only 0.004 V/A. Available with Kyosho, Futaba J or G, or Airtronics connectors.

KYOM1200	2593 SC-1000 Speed Control-Kyosho
KYOM1205	2593FJ SC-1000 Speed Control-Futaba J
KYOM1210	2593FG SC-1000 Speed Control Futaba G
KYOM1215	2593SW SC-1000 Speed Control-Airtronics

Ball Differential



Kyosho Option House offers a rear **Ball Differential** for the scale cars. The ball differential allows the driver to adjust the amount of differential action for smooth operation. Friction and power loss are also substantially reduced.

KYOC2176 W-0109 Ball Diff.

Ball Bearing Set



Kyosho **Ball Bearings** are high-quality stainless steel for optimum performance and are double-sealed for long-lasting durability.

KYOC2194 1974 Bearing Set

Gold Shocks and Shocks Oils



Kyosho is famous for shocks, and these are some of the very best. **Gold Shocks** are available in both long and short versions, and are completely adjustable for any track condition. They are oil-filled, coil-over, anodized aluminum shocks that are triple-sealed to guard against leaks. The #1951 Shock Oil Set is a must for any vehicle with oil-filled shocks, containing three different thicknesses in color-coded bottles. Kyosho Frontier Teflon Oil can reduce parts friction to almost nothing, and has many uses.

KYOC5692	W-5001 Gold Shocks Short (2)
KYOC5693	W-5002 Gold Shocks Long (2)
KYOC4708	1883 Oil (Frontier TFE) - 30cc
KYOC5681	1951 Shock Oil Set (L-M-H)

Car Aids

This collection of metric screws, nuts, and washers will save racers valuable time in the pits and keep their cars ready for competition. Comes packaged in a plastic Kyosho Racing Box with a clear, snap-down, hinged lid.



KYOC5567 1941 Car Aids Screw/Nut Set

Pinion Gears



Kyosho's new, extremely heavy-duty **Pinion Gears** will hold up easily under rough, high torque, high speed conditions. Drivers will be able to adjust their car's gear ratio with the different tooth sizes to meet varying race conditions.

KYOC4777	OT-051 Pinion (14T)
KYOC4787	OT-052 Pinion (16T)
KYOC4792	OT-053 Pinion (17T)
KYOC4797	UM-23 Pinion (18T)
KYOC4802	UM-24 Pinion (19T)
KYOC4807	UM-25 Pinion (20T)

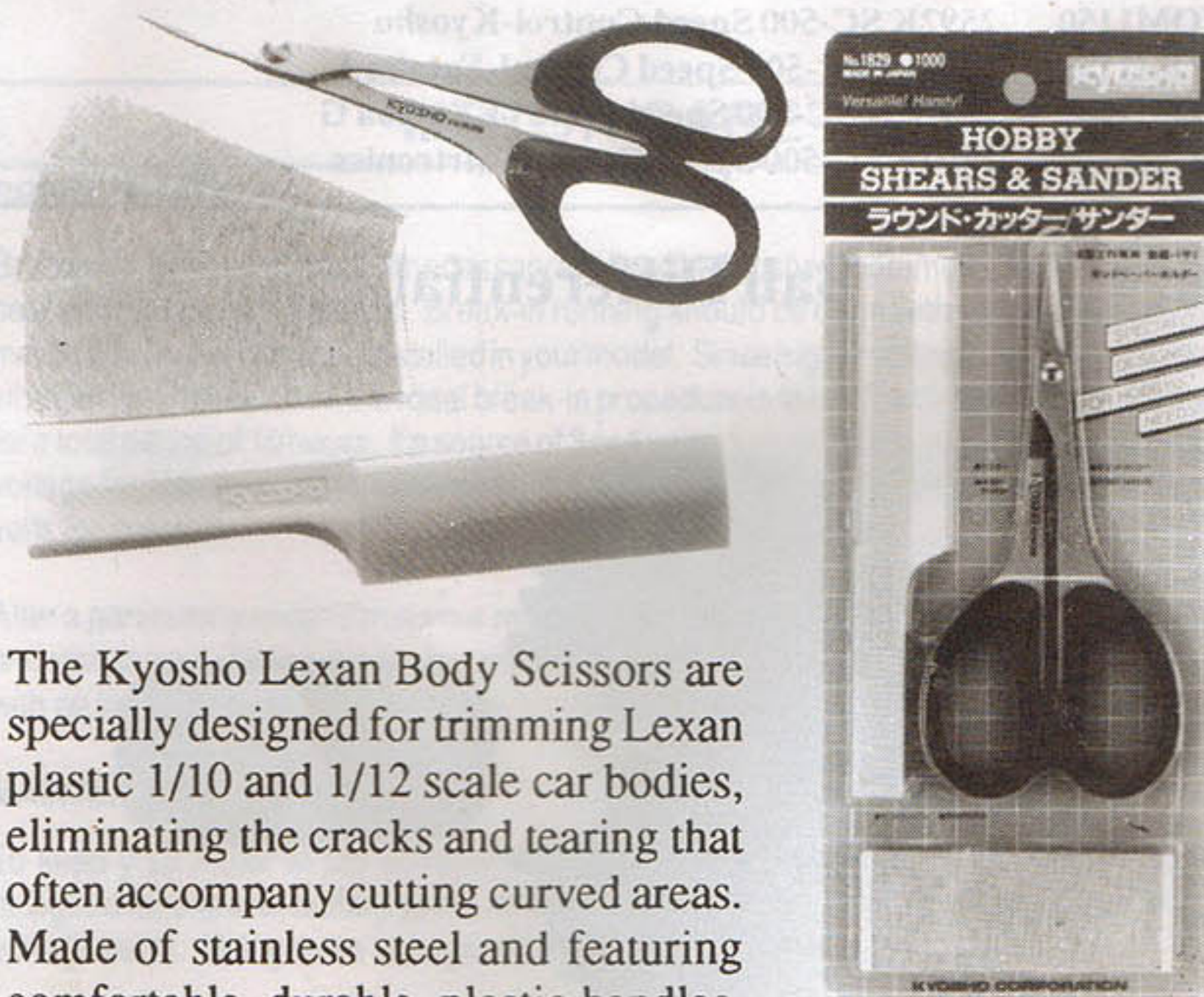
Polyca Paints



Kyosho Polyca Paint is ideal for painting car bodies. It can be applied with a brush or sprayer and cleans up with water. Twelve different colors are available.

KYOR2000	2230-W Polyca Paint White 20cc
KYOR2010	2230-R Polyca Paint Red 20cc
KYOR2020	2230-BK Polyca Paint Black 20cc
KYOR2030	2230-BL Polyca Paint Blue 20cc
KYOR2040	2230-Y Polyca Paint Yellow 20cc
KYOR2050	2230-SB Polyca Paint Sky Blue 20cc
KYOR2060	2230-G Polyca Paint Green 20cc
KYOR2070	2230-O Polyca Paint Orange 20cc
KYOR2080	2230-V Polyca Paint Violet 20cc
KYOR2090	2230-YG Polyca Paint F. Pink 20cc
KYOR2100	2230-KP Polyca Paint F. Pink 20cc
KYOR2110	2230-KO Polyca Paint F. Orange 20cc

Lexan Scissors and Sander



The Kyosho Lexan Body Scissors are specially designed for trimming Lexan plastic 1/10 and 1/12 scale car bodies, eliminating the cracks and tearing that often accompany cutting curved areas. Made of stainless steel and featuring comfortable, durable, plastic handles, these scissors have a curved blade which makes cutting much easier on the Lexan plastic angles. Included with the scissors are a handy sanding tool and sticky-backed sandpaper. The sander's ABS handle has both flat and curved surfaces, making it ideal for sanding down rough spots and frosting plastic bottles.

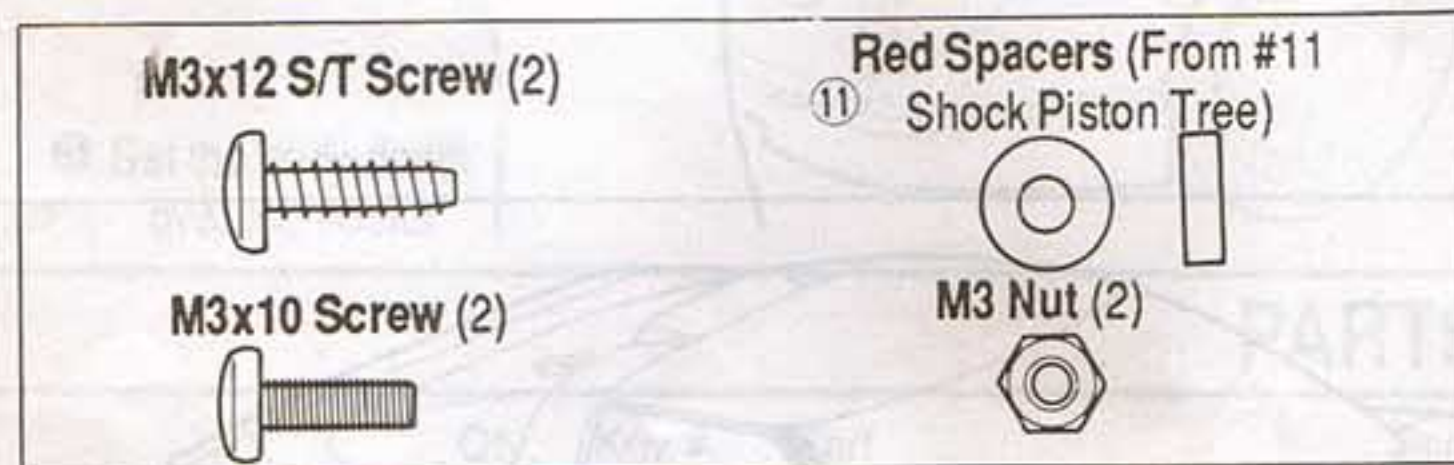
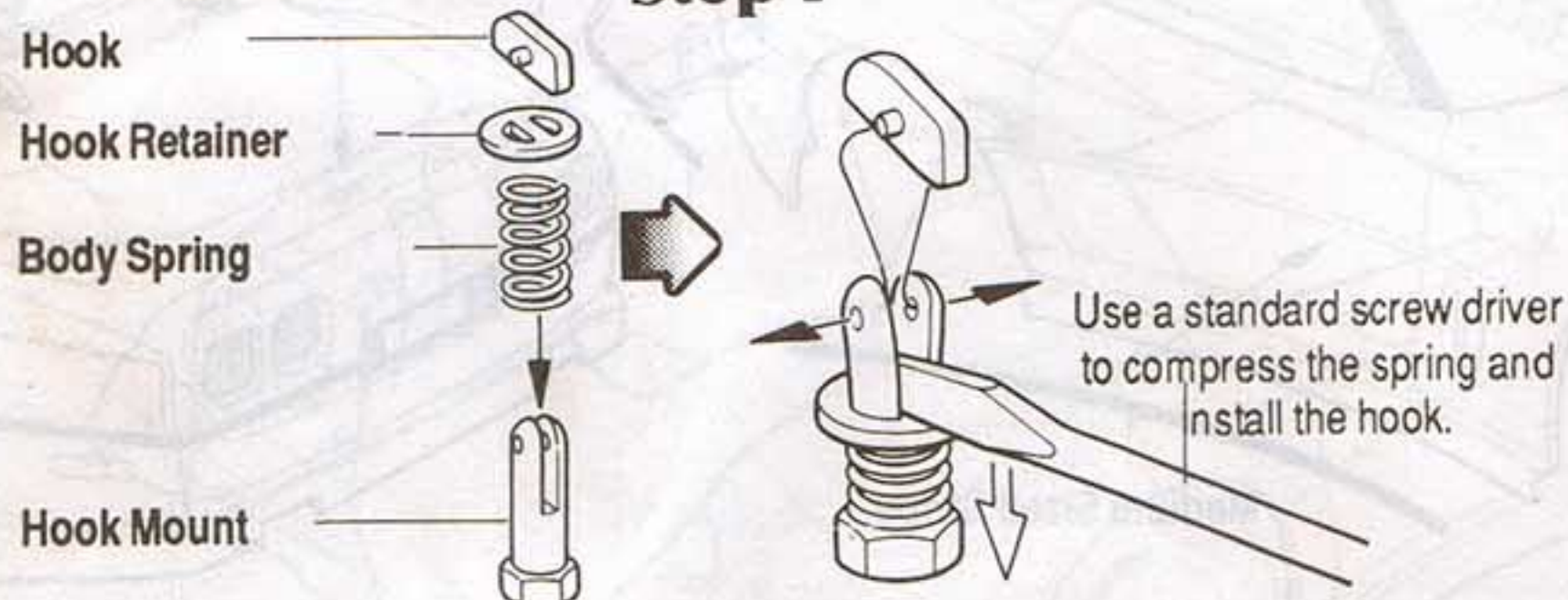
KYOR1010	1829 Lexan Scissors w/Sander
KYOR1000	H-301 Lexan Scissors
KYOR1030	H-300 Lexan Sander

PRINTED IN JAPAN

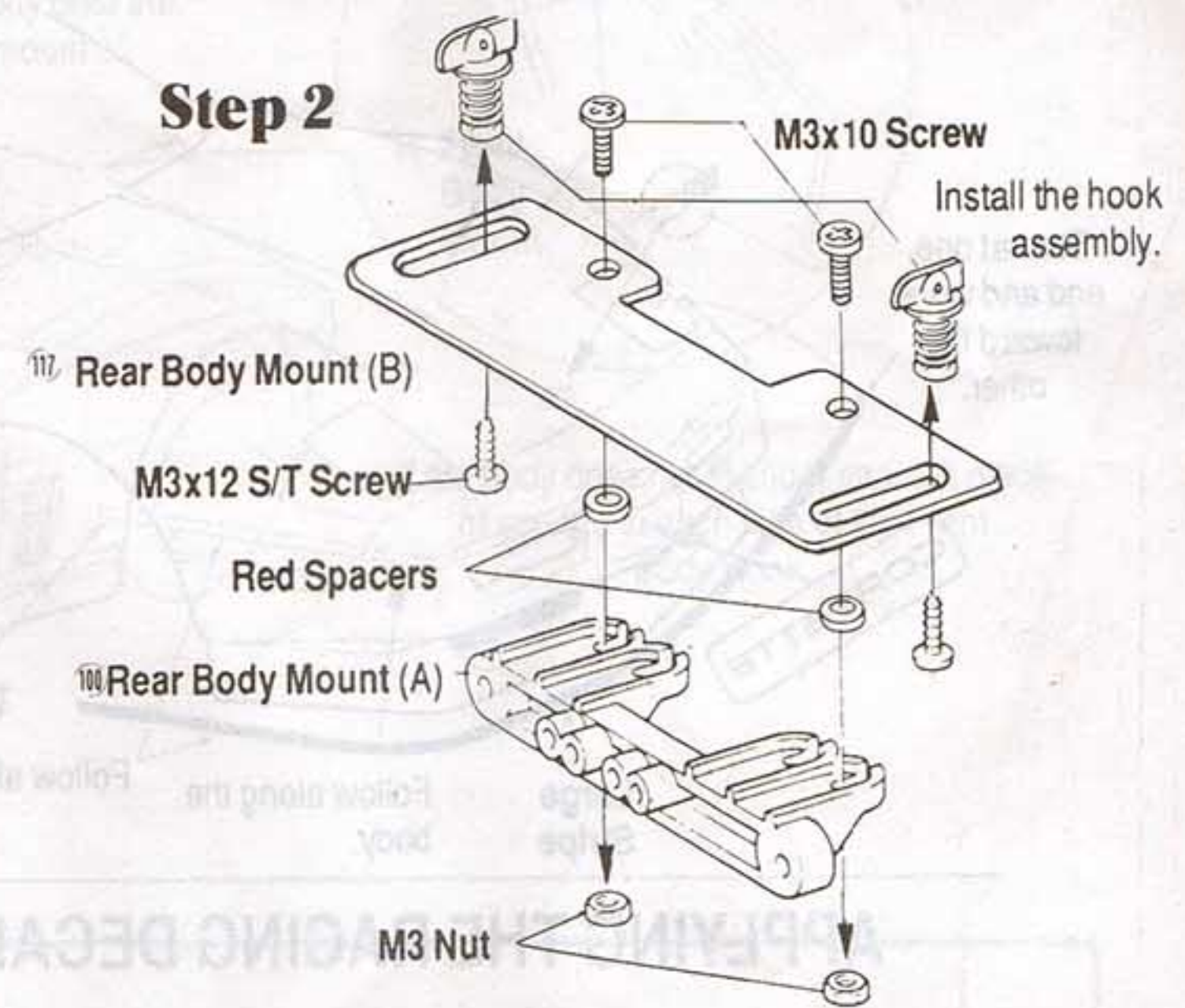
KYOSHO ZR-1 ELECTRIC CORVETTE™

Follow this special insert when building your ZR-1 and when locating numbers for purchasing parts.

ASSEMBLY OF THE REAR BODY MOUNT

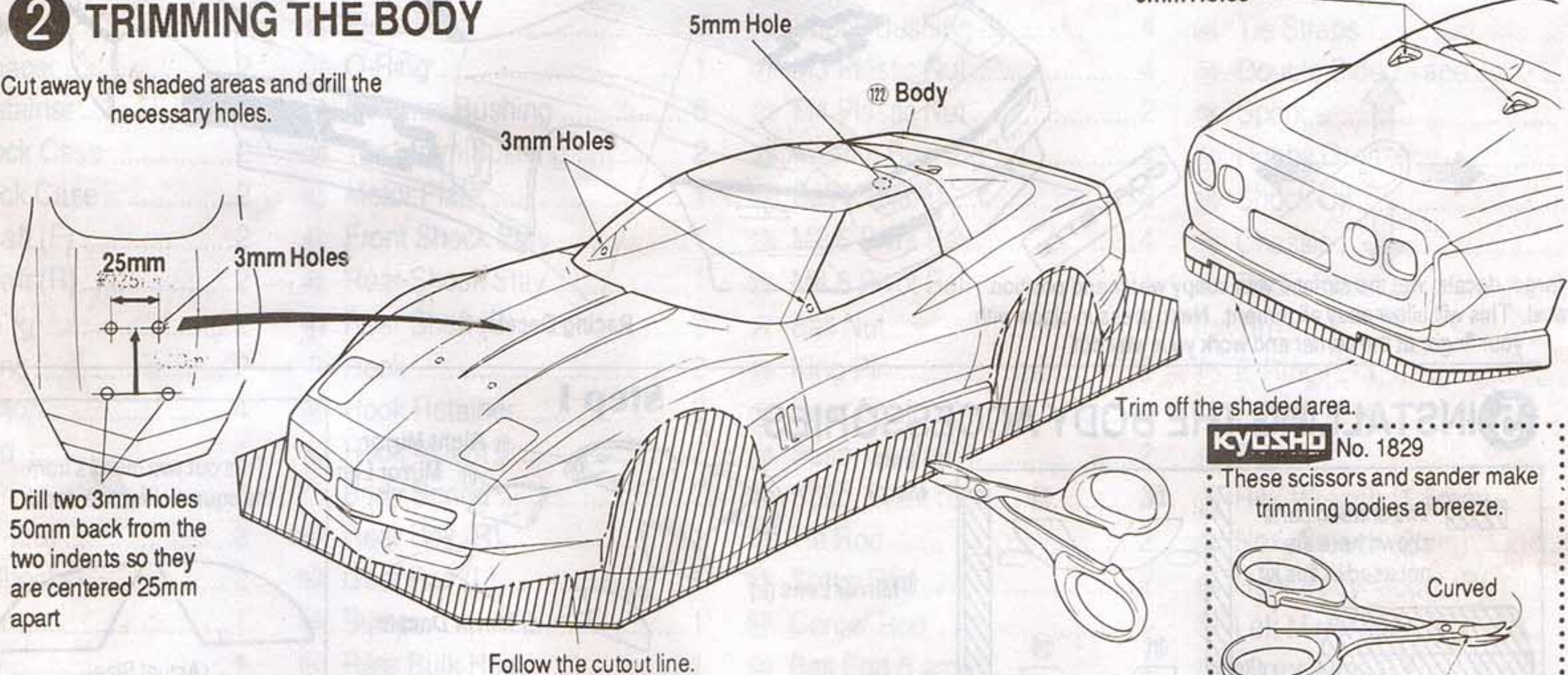


Step 2



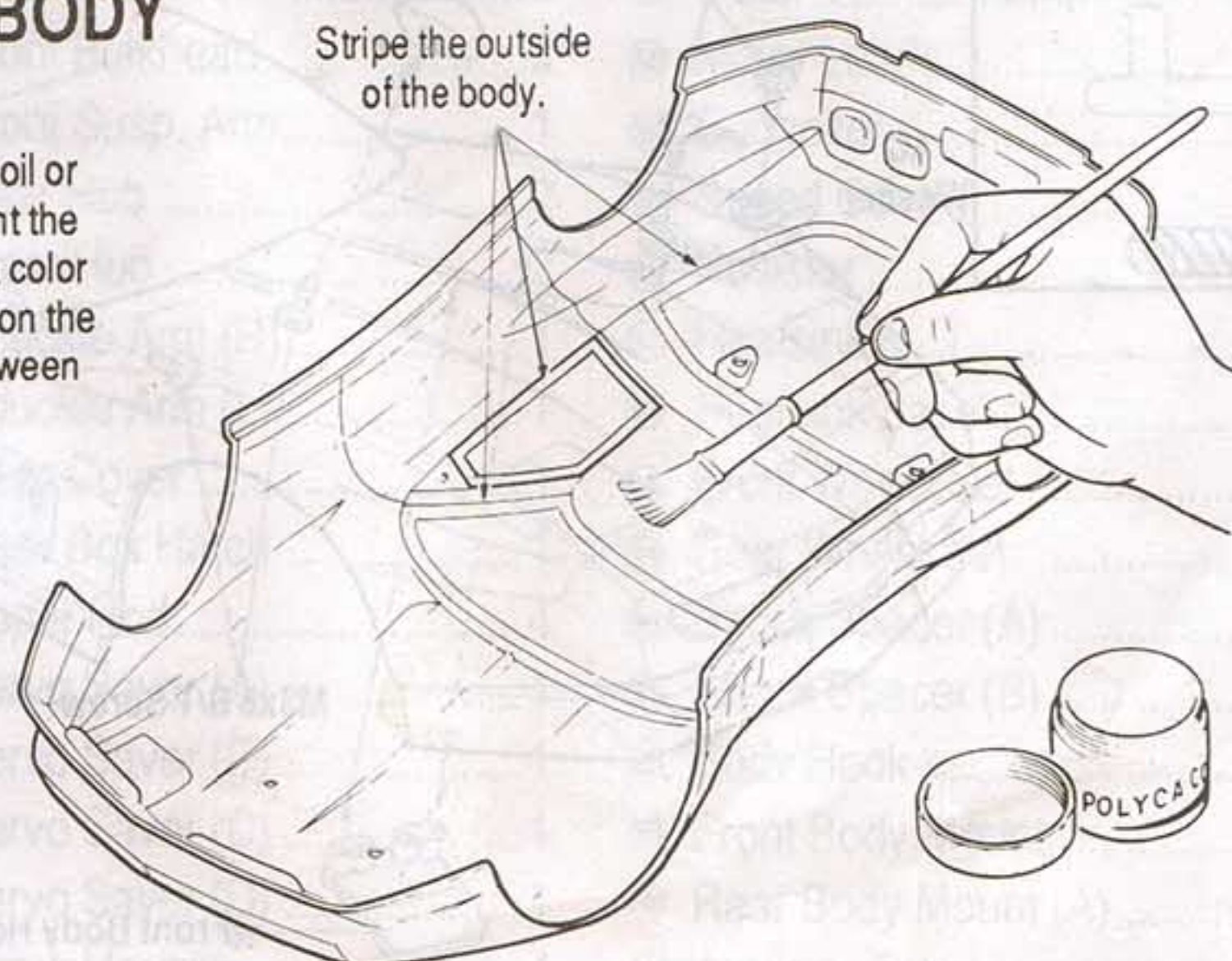
2 TRIMMING THE BODY

Cut away the shaded areas and drill the necessary holes.



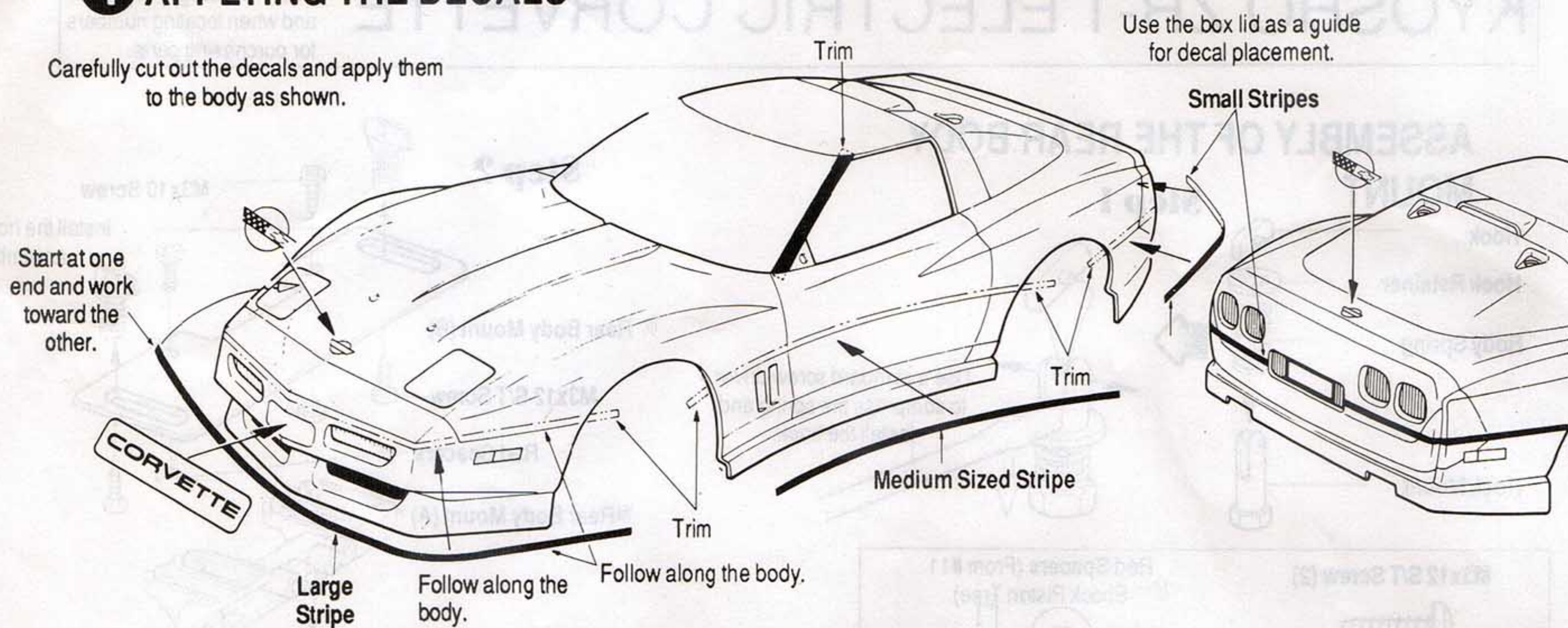
3 PAINTING THE BODY

First, wash the body to remove any oil or dirt. Rinse and dry thoroughly. Paint the inside of the body. You can obtain a color scheme by putting pin stripping tape on the outside of the body and painting between the lines on the inside.



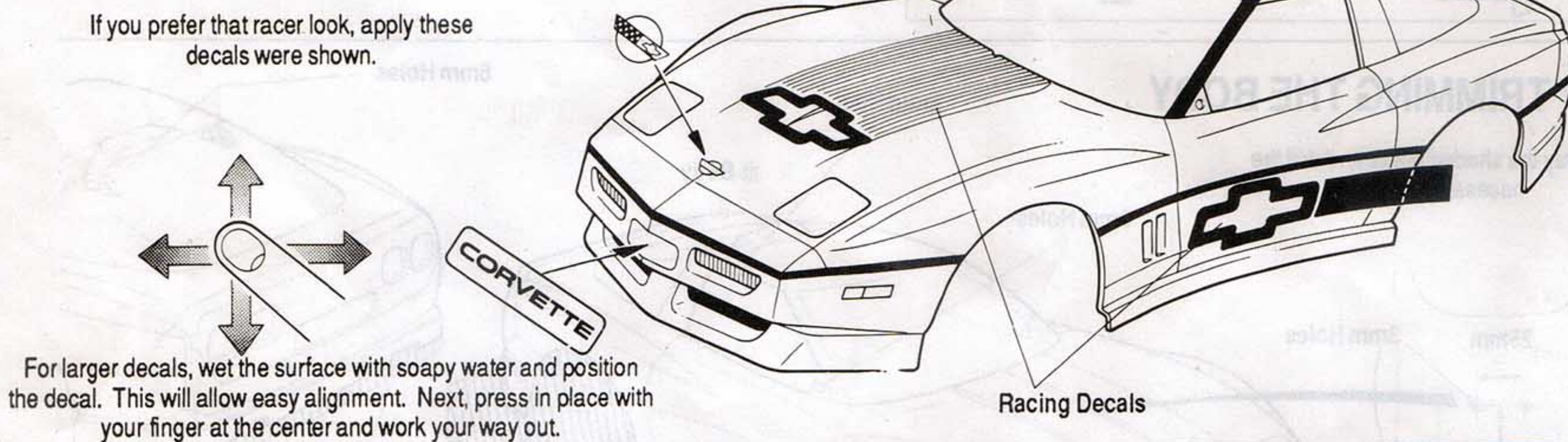
4 APPLYING THE DECALS

Carefully cut out the decals and apply them to the body as shown.

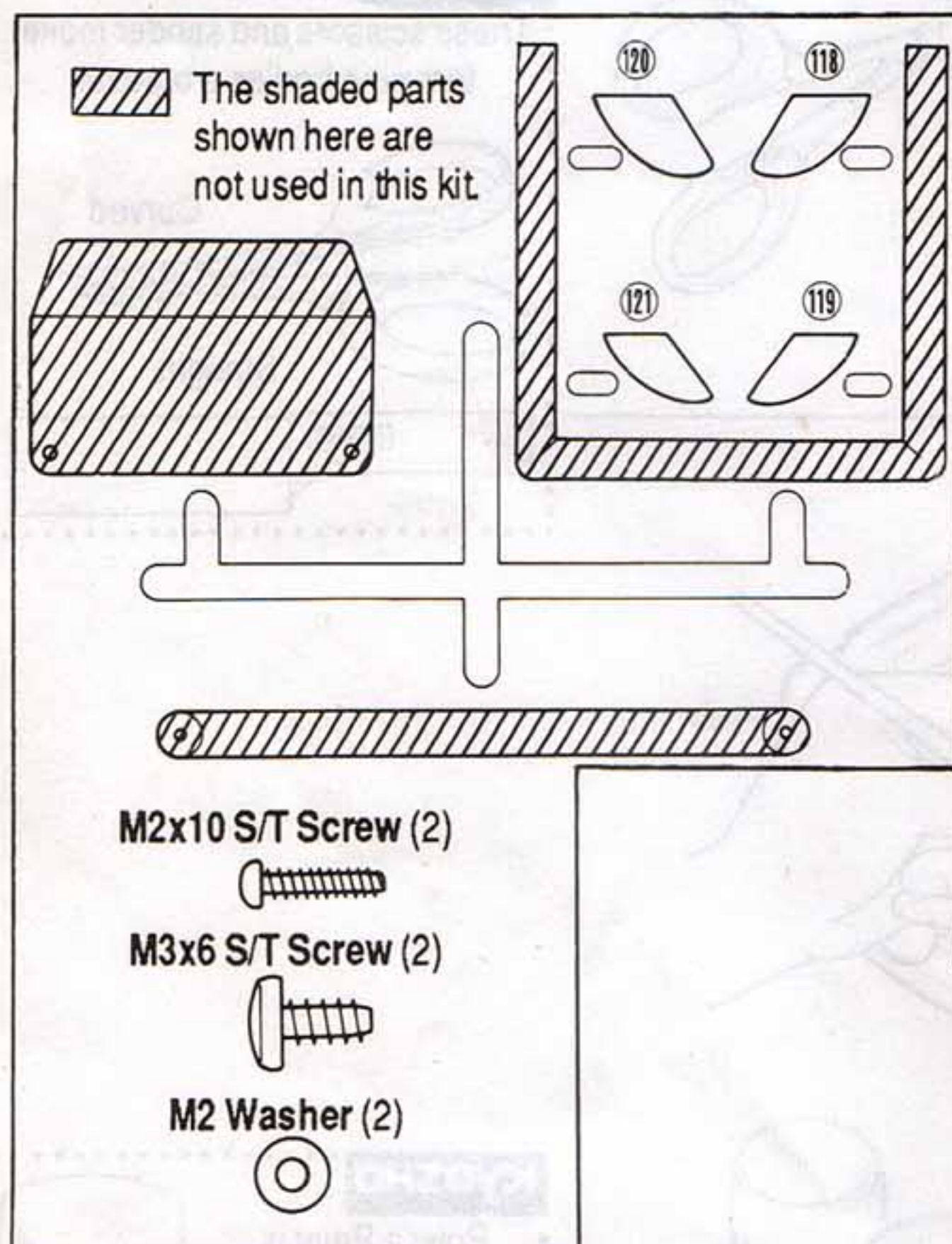


APPLYING THE RACING DECALS

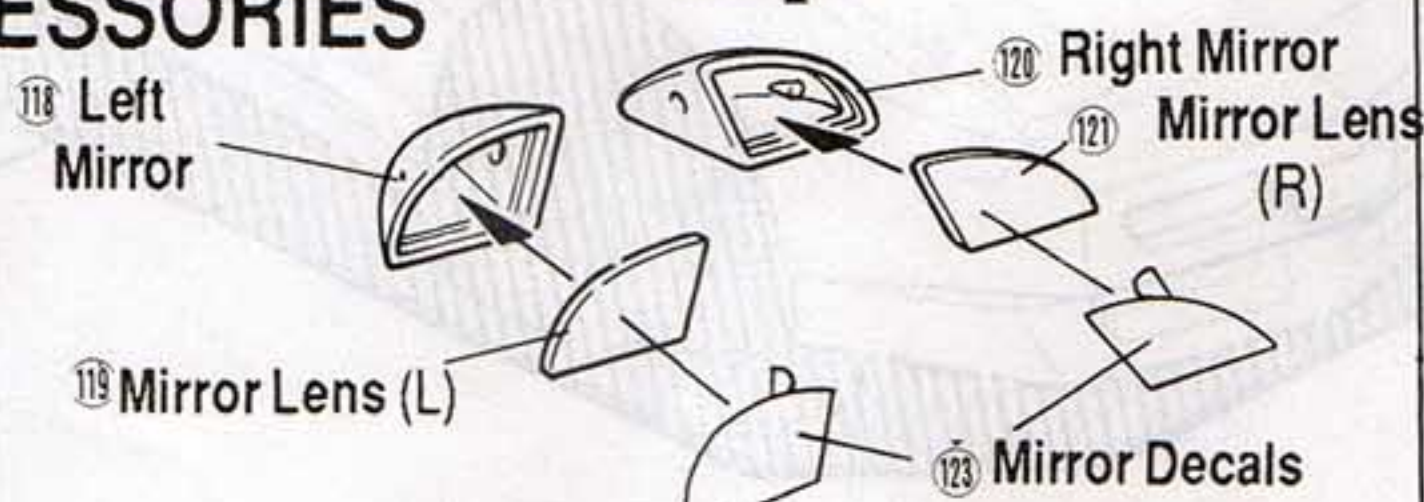
If you prefer that racer look, apply these decals were shown.



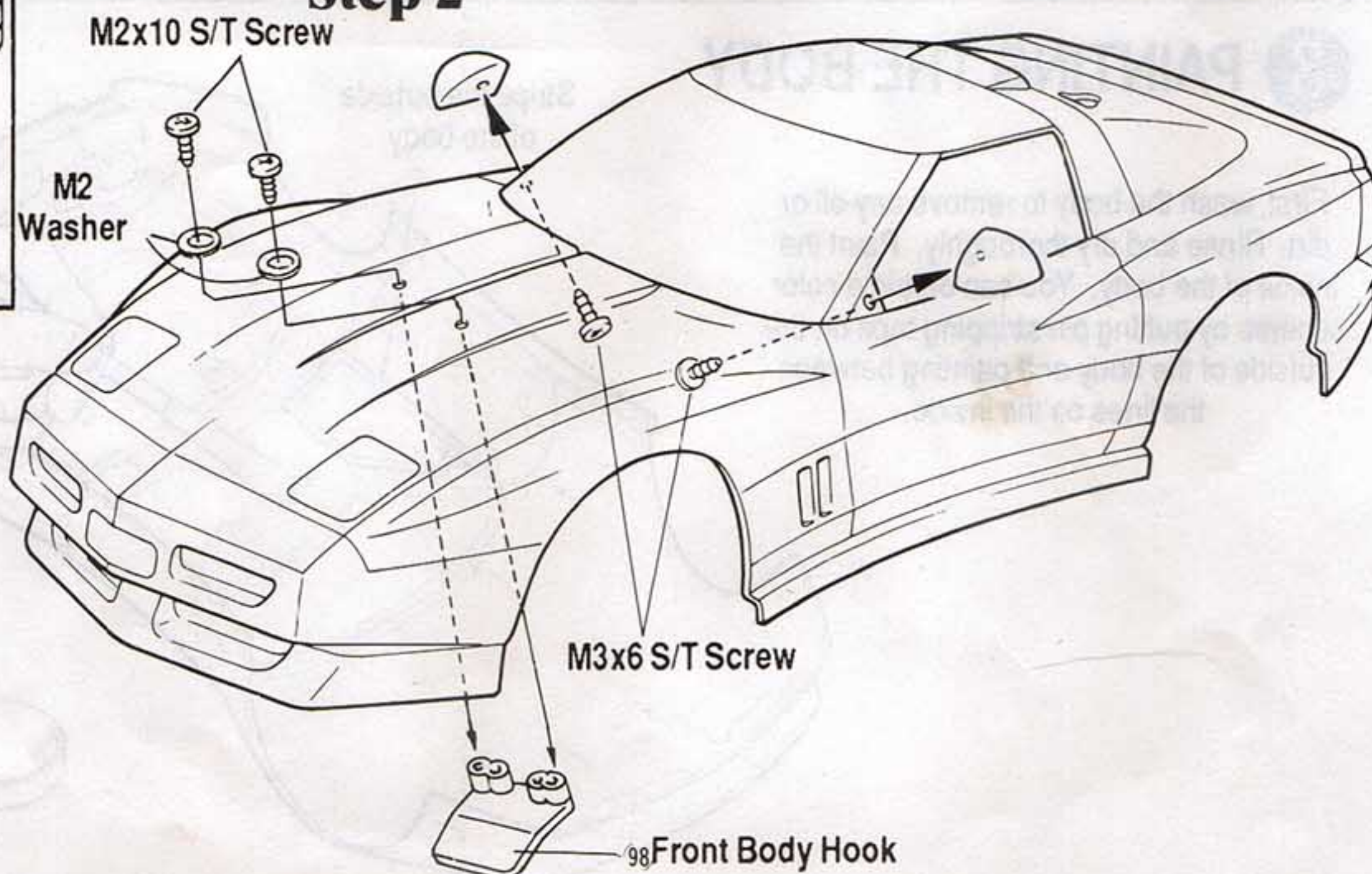
5 INSTALLING THE BODY ACCESSORIES



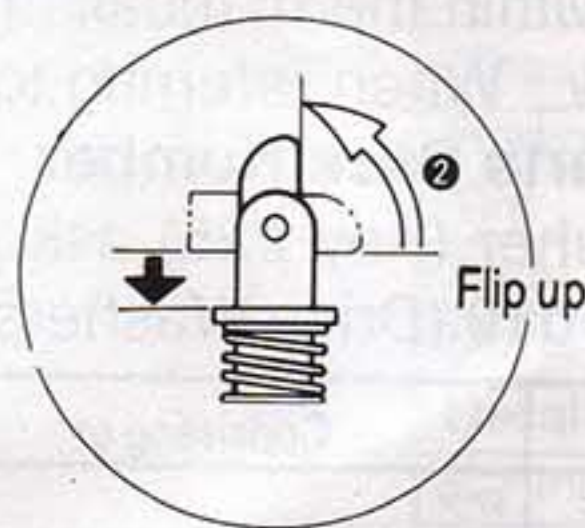
Step 1



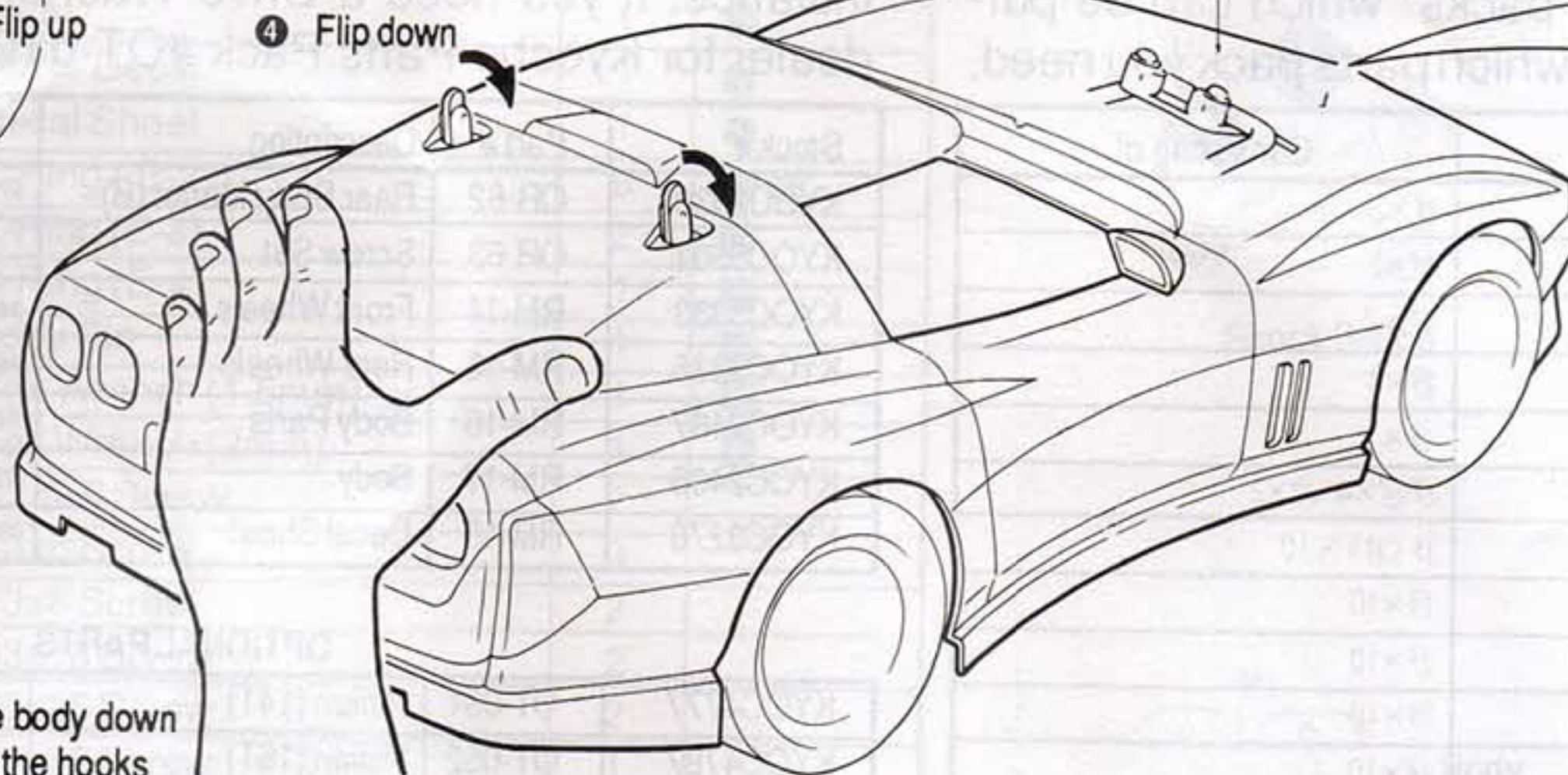
Step 2



MOUNTING THE BODY

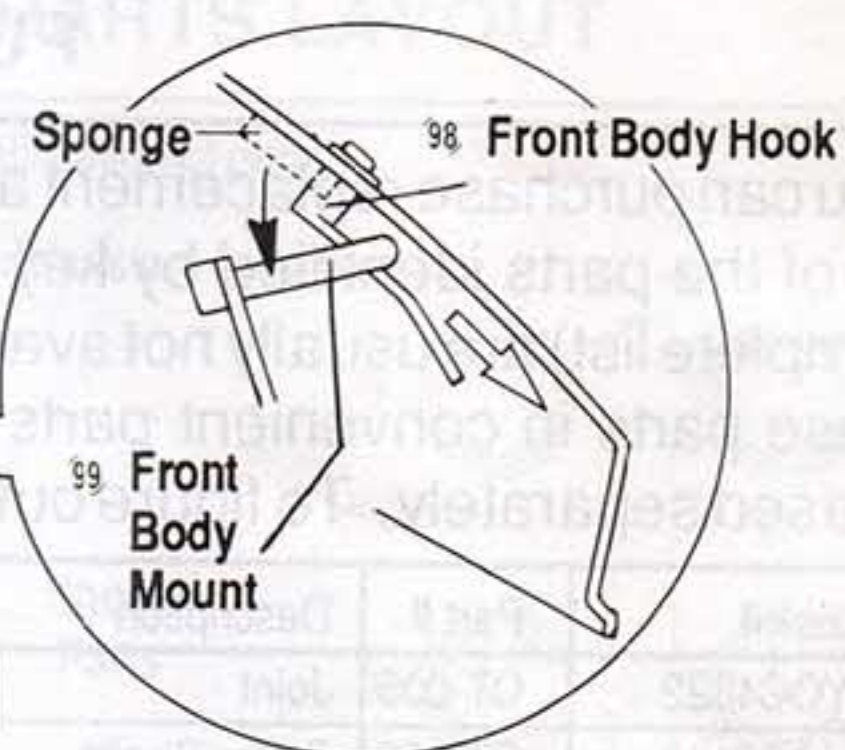


③ Set the body down over the hooks



① Slide the body onto the front mount

④ Flip down



If the body does not fit snug, attach a piece of sponge to each side of the Front Body Hook.

PARTS LIST

Key #.	Part	Qty.	Key #.	Part	Qty.	Key #.	Part	Qty.	Key #.	Part	Qty.
①	Shock Cap Retainer	4	③⑤	Pinion Gear	1	⑥⑨	Antenna Mount	1	⑩③	Battery Strap	2
②	Shock Cap	4	③⑥	Plate Post	2	⑦⑩	Shock Bushing	4	⑩④	Tie Straps	2
③	Spring Spacer	2	③⑦	O-Ring	1	⑦①	M3 Plastic Nut	4	⑩⑤	Double Sided Tape	1
④	Spring Retainer	2	③⑧	5x10mm Bushing	6	⑦②	M4 Plastic Nut	2	⑩⑥	Sponge	1
⑤	Front Shock Case	2	③⑨	10x14mm Bushing	2	⑦③	4x8mm Bushing	4	⑩⑦	Hobby Grease	1
⑥	Rear Shock Case	2	④①	Motor Plate	1	⑦④	Ball (5.8mm)	12	⑩⑧	Shock Oil	1
⑦	Shock Shaft (F)	2	④②	Front Shock Stay	1	⑦⑤	M2.6 Pivot Ball	4	⑩⑨	Chassis	1
⑧	Shock Shaft (R)	2	④③	Rear Shock Stay	1	⑦⑥	M4.8 Pivot Ball	1	⑪①	Radio Plate	1
⑨	Front Spring	2	④④	Rear Shaft (B)	2	⑦⑦	Ball Nut	1	⑪②	Tire	4
⑩	Rear Spring	2	④⑤	Hook	2	⑦⑧	King Pin	2	⑪③	E-Ring (E-3)	2
⑪	Shock Piston	4	④⑥	Hook Retainer	2	⑦⑨	Rear Shaft (A)	2	⑪④	E-Ring (E-4)	1
⑫	Shock End	4	④⑦	Hook Mount	2	⑧①	Susp. Shaft (C)	2	⑪⑤	Body Pin	1
⑬	Diaphragm	4	④⑧	Body Spring	2	⑧②	Susp. Shaft (D)	2	⑪⑥	Hex Wrench (1.5mm)	1
⑭	E-Ring (E-2.5)	8	④⑨	Gear Box (R)	1	⑧③	Tie Rod	2	⑪⑦	Hex Wrench (2mm)	1
⑮	O-Ring (Shocks)	2	⑤①	Gear Box (L)	1	⑧④	Servo Rod	2	⑪⑧	Rear Body Mount (B)	1
⑯	Main Gear	1	⑤②	Bumper	1	⑧⑤	Center Rod	1	⑪⑨	Left Mirror	1
⑰	Diff. Case	1	⑤③	Rear Bulk Head	1	⑧⑥	Ball End (Large)	4	⑪⑩	Mirror Lens (L)	1
⑱	Bevel Gear (A)	2	⑤④	Rear Stopper	1	⑧⑦	Ball End (Small)	2	⑪⑪	Right Mirror	1
⑲	Bevel Gear (B)	2	⑤⑤	Rear Susp. Arm	2	⑧⑧	Motor	1	⑪⑫	Mirror Lens (R)	1
⑳	Counter Gear	1	⑤⑥	Front Bulkhead	2	⑧⑨	Motor Leads	1	⑪⑬	Body	1
㉑	Final Pinion Gear	1	⑤⑦	Front Susp. Arm	1	⑧⑩	Capacitor	1	⑪⑭	Mirror Decal	1
㉒	Center Gear	1	⑤⑧	Rear Hub	2	⑧⑪	Speed Control	1	⑪⑮	Decals Sheet	1
㉓	Bushing (4x8mm) (L)	1	⑤⑨	Front Hub	2	⑧⑫	Resistor	1			
㉔	Bushing Collar	2	⑤⑩	Knuckle Arm (R)	1	⑧⑬	Heatsink	1			
㉕	Drive Washer	2	⑤⑪	Knuckle Arm (L)	1	⑧⑭	Heatsink Base	1			
㉖	Front Wheel Shaft	2	⑤⑫	Gear Cover	1	⑧⑮	Front Wheel Set	2			
㉗	Rear Wheel Shaft	2	⑤⑬	Gear Box Hatch	1	⑧⑯	Rear Wheel Set	2			
㉘	Joint	2	⑤⑭	Upper Rod	4	⑧⑰	Shock Spacer (A)	2			
㉙	Swing Shaft	2	⑤⑮	Servo Saver (A)	1	⑧⑱	Shock Spacer (B)	2			
㉚	Servo Saver Shaft	2	⑤⑯	Servo Saver (B)	1	⑧⑲	Body Hook	1			
㉛	Counter Gear Shaft	1	⑤⑰	Servo Saver (C)	1	⑧⑳	Front Body Mount	1			
㉜	Center Gear Shaft	1	⑤⑱	Servo Saver (D)	1	⑧㉑	Rear Body Mount (A)	1			
㉝	Bevel Gear Shaft	1	⑤㉑	Servo Mounts	4	⑧㉒	Antenna Tube	1			
㉞	Pin (2x11mm)	2	⑤㉒	Servo Saver Collars	2	⑧㉓	Gear Cover Seal	1			

LIST OF BAGGED PARTS (1) - CORVETTE

Bag #	Key #	Description	Qty	Step used in
Corvette 1	1	Shock Cap Retainer	4	2
	2	Shock Cap	4	2
	3	Spring Spacer	2	2
	4	Spring Retainer	2	2
	5	Front Shock Case	2	1
	6	Rear Shock Case	2	1
	7	Shock Shaft (F)	2	1
	8	Shock Shaft (R)	2	1
	9	Front Spring	2	2
	10	Rear Spring	2	2
	11	Shock Piston	4	1
	12	Shock End	4	1
	13	Diaphragm	4	2
	14	E-Ring (E-2.5)	8	1
	15	O-Ring (Shocks)	2	1
Corvette 3	16	Main Gear	1	3
	17	Diff. Case	1	3
	18	Bevel Gear (A)	2	3
	19	Bevel Gear (B)	2	3
	20	Counter Gear	1	5
	21	Final Pinion Gear	1	6
	22	Center Gear	1	23
	23	Bushing (4x8mm) (L)	1	23
	24	Bushing Collar	2	3
	25	Drive Washer	2	33
	26	Front Wheel Shaft	2	12
	27	Rear Wheel Shaft	2	10
	28	Joint	2	4
	29	Swing Shaft	2	11
	30	Servo Saver Shaft	2	17
	31	Counter Gear Shaft	1	5
	32	Center Gear Shaft	1	23
	33	Bevel Gear Shaft	1	3
	34	Pin (2x11mm)	2	5 6
	35	Pinion Gear	1	29
Corvette 4	36	Plate Post	2	25
	37	O-Ring	1	23
	38	5x10mm Bushing	6	5 7 10
	39	10x14mm Bushing	2	4
	40	Motor Plate	1	5
	41	Front Shock Stay	1	13
	42	Rear Shock Stay	1	3
	43	Rear Shaft (B)	2	10
	44	Hook	2	1
	45	Hook Retainer	2	1
Corvette 5	46	Hook Mount	2	1
	47	Body Spring	2	1
	48	Gear Box (R)	1	5
	49	Gear Box (L)	1	7
	51	Rear Bulk Head	1	3
	52	Rear Stopper	1	11
	53	Rear Susp. Arm	2	10
	54	Front Bulkhead	2	13
	55	Front Susp. Arm	1	14
	56	Rear Hub	2	10
	57	Front Hub	2	12
	58	Knuckle Arm (R)	1	12
	59	Knuckle Arm (L)	1	12
	60	Gear Cover	1	30
	61	Gear Box Hatch	1	9
	62	Upper Rod	4	3 13
	63	Servo Saver (A)	1	16
	64	Servo Saver (B)	1	16

Bag #	Key #	Description	Qty	Step used in
Corvette 5	65	Servo Saver (C)	1	16
	66	Servo Saver (D)	1	16
	67	Servo Mounts	4	20
	68	Servo Saver Collars	2	17
	69	Antenna Mount	1	22
	70	Shock Bushing	4	26 27
	71	M3 Plastic Nut	4	26 27
	72	M4 Plastic Nut	2	33
	73	4x8mm Bushing	4	33
	74	Ball (5.8mm)	12	1 3 13
Corvette 6	75	M2.6 Pivot Ball	4	16 12
	76	M4.8 Pivot Ball	1	22
	77	Ball Nut	1	16
	78	King Pin	2	12
	79	Rear Shaft (A)	2	10
	80	Susp. Shaft (C)	2	14
	81	Susp. Shaft (D)	2	14
	82	Tie Rod	2	13
	83	Servo Rod	2	20
	84	Center Rod	1	16
Corvette 7	85	Ball End (Large)	4	13
	86	Ball End (Small)	2	20
	87	Motor	1	29
	88	Motor Leads	1	29
	89	Capacitor	1	29
	90	Speed Control	1	22
	91	Resistor	1	24
	92	Heatsink	1	24
	93	Heatsink Base	1	24
	101	Antenna Tube	1	31
Corvette 8	102	Gear Cover Seal	1	30
	103	Battery Strap	2	34
	104	Tie Straps	2	29 31
	105	Double Sided Tape	1	31
	106	Sponge	1	7
	107	Hobby Grease	1	
	108	Shock Oil	1	2
	94	Front Wheel Set	2	32
	95	Rear Wheel Set	2	32
Corvette 9	50	Bumper	1	15
	96	Shock Spacer (A)	2	1
	97	Shock Spacer (B)	2	1
	98	Body Hook	1	1
	99	Front Body Mount	1	26
	100	Rear Body Mount (A)	1	1
	117	Rear Body Mount (B)	1	1
	118	Left Mirror	1	1
	119	Mirror Lens (L)	1	1
	120	Right Mirror	1	5 6
	121	Mirror Lens (R)	1	5 6

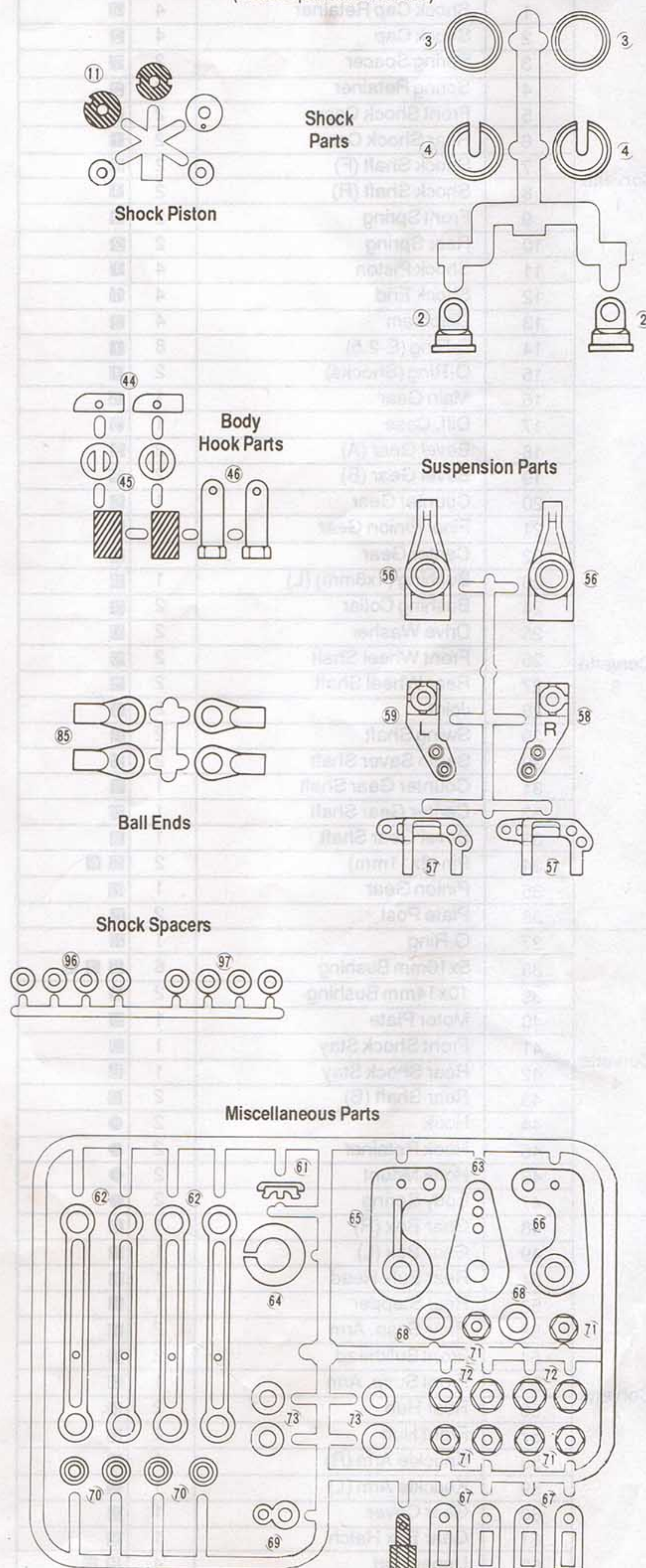
LIST OF BAGGED PARTS (1)

Bag #	Key #	Description	Qty	Step used in
	109	Chassis	1	9
	110	Radio Plate	1	22
	111	Tire	4	32 2
	122	Body	1	3
	133	Mirror Decal	1	5
	124	Decal Sheet	1	5
Corvette 2	14	E-Ring (E-2.5)	8	10 14
	112	E-Ring (E-3)	2	12
	113	E-Ring (E-4)	1	7
	114	Body Pin	1	30
	115	Hex Wrench (1.5mm)	1	29
	116	Hex Wrench (2mm)	1	4
		M2.6x6 Screw	2	
		M3x6 Screw	9	
		M3x8 Screw	2	
		M3x18 Screw	2	
		M3x25 Screw	2	
		M3x35 Screw	1	
		M4x8 Screw	4	
		M4x12 Screw	2	
		M2x4 Screw	1	
		M3x16 Screw	4	
		M3x33 Screw	3	
		M3x6 F/H Screw	4	
		M3x12 F/H Screw	6	
		M3x15 F/H Screw	4	
		M4x8 F/H Screw	8	
		M4x12 F/H Screw	2	
		M3x6 S/T Screw	2	
		M3x8 S/T Screw	12	
		M3x10 S/T Screw	5	
		M2x8 S/T Screw	3	
		M2x10 S/T Screw	4	
		M3x18 S/T Screw	1	
		M3x10 F/H, S/T Screw	1	
		M3x15 F/H, S/T Screw	5	
		M3x3 Set Screw	1	
		M4x4 Set Screw	2	
		M2.6 Nut	4	
		M3 Nut	18	
		M4 Nylon Nut	2	
		M2 Washer	2	
		M3 Washer	5	
		M4 Washer	2	
		M5 Washer	2	

PLASTIC PARTS LAYOUT

Refer the diagrams below for easy identification of parts.

(Shaded parts are not used)



PURCHASING PARTS FOR YOUR KIT-CORVETTE

You can purchase replacement and optional parts for your kit. All of the parts identified by key numbers (see page 3 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 Drive Washer (Key #25) ask your dealer for Kyosho Parts Pack #OT-019 (Drive Washers).

Stock #	Part #	Description	Consisting of
KYOC4322	OT-005	Joint	28×2
KYOC6122	OT-006	Swing Shafts	29×2
KYOC5658	OT-018	Shafts-Rear	27×2
KYOC3332	OT-019	Drive Washer	25×4
KYOC4782	OT-024	Pinion Gear	35×1
KYOC3297	OT-028	Diff. Gear Set	18 10×4 33×2
KYOC4707	OT-029	O-Ring	15 (37) ×10
KYOC2167	OT-032	Ball-5.8mm	74×10
KYOC2242	OT-033	Ball Ends-2.6mm	77×10
KYOC4822	OT-036	Pivot Ball-2.6	75×10
KYOC3392	OT-039	E-Ring (E-2.5)	14×10
KYOC4182	UM-01	Gear Set	16 17 20 21 22×1
KYOC2747	UM-02	Bushing Set	23×1 24 39×2 38×6
KYOC4184	UM-05	Gear Shaft Set	31 32×1 34×2
KYOC5696	UM-06	Shock Stay Set	41 42×1
KYOC6078	UM-07	Susp. Shaft Set	43 79 80 81×2
KYOC3737	UM-08	Shaft Set (Fr)	26 78 ×2
KYOC5387	UM-09	Rod Set	83 84×1 85×2
KYOC6069	UM-13	Susp. Rod Set	53 55×2
KYOC5653	UM-14	Servo Saver	61 63 64 65 66 69×1 62 67 70 73×4 68 72×2 71×6
KYOC5639	UM-42	Servo Saver Set	30 35 ×2
KYOC6301	UM-49	Upright Set	56 57×2 58 59×1
KYOC2626	UM-50	Bulk Head Set	51 52 54 60 12×1
KYOC4622	UM-51	Motor Plate	40×1
KYOC4034	UM-52	Gear Box	48 49×1
KYOC6297	UM-65	Upper Plate	10×1
KYOC4523	UM-66	Kelron Chassis	10×1
KYOC6025	EF-037	Tie Straps (Small)	10×6
KYOC6020	EF-039	Battery Straps	10×6
KYOC2055	SD-79	Antenna Tube	10×5
KYOC3395	CB-072	E-Ring (E-3)	11×4
KYOC3400	KC-20	E-Ring (E-4)	11×4
KYOC5721	FD-37	Shocks-Front	1 2 3 4 5 7 9 11 12 13×2 14×4
KYOC5722	FD-38	Shocks-Rear	1 2 3 4 6 8 10 11 12 13×2 14×4
KYOC4586	BB-26	Motor Cord	88 89 1
KYOC6222	SC-089	Tie Rod Set	82×2 85×4
KYOC2520	EP-22	Body Pins	114×5
KYOC2533	1806	Body Mount-Quick	44 45 46 47×2
KYOC5753	1815	Hvy Dty Spd Ctrl	76 90 1
KYOC5823	1819	15W. Resistor	91 92 93×1
KYOC6141	1840	Double Sided Tape	15×1
KYOC6242	W5053E	Tires	111×2
KYOC2538	OR-28	Body Mount Set	96 97×2 98 99 100 101×1
KYOC2657	OR-29	Bumper	50×1

Stock #	Part #	Description	Consisting of
KYOC2539	OR-62	Rear Body Mount (B)	117×1
KYOC5501	OR-63	Screw Set	
KYOC3933	RM-14	Front Wheels	94×2
KYOC5336	RM-15	Rear Wheels	95×2
KYOC2467	RM-16	Body Parts	118 119 120 121×1
KYOC2466	RM-17	Body	122×1
KYOC3276	RM-18	Decal Sheet	124×1

OPTIONAL PARTS

KYOC4777	OT-051	Pinion (14T)	
KYOC4787	OT-052	Pinion (16T)	
KYOC4792	OT-053	Pinion (17T)	
KYOC4797	UM-23	Pinion (18T)	
KYOC4802	UM-24	Pinion (19T)	
KYOC4807	UM-25	Pinion (20T)	
KYOC4604	UM-28	Motor Guard	
KYOC5944	UM-29	Stabilizer Set	
KYOG6700	LM-15	Heatsink Plate	Plus Filter
KYOG6740	LM-18	Maintenance Kit	For Motors
KYOC2176	W-0109	Ball Diff.	
KYOC5692	W-5001	Gold Shocks	Short
KYOC5693	W-5002	Gold Shocks	Long
KYOC5388	W-5005	Rod Set	Adjustable
KYOC6127	W-5061	Universal Swing Shafts	
KYOC3173	1863	Sponsor Decals	
KYOC4708	1883	Oil (Light Machine)	Frontier
KYOC5681	1951	Shock Oil Set	(L-M-H)
KYOC5736	1953	Silicone Shock Oil	Soft
KYOC5737	1954	Silicone Shock Oil	Medium
KYOC5738	1955	Silicone Shock Oil	Hard
KYOC5739	1956	Silicone Shock Oil	Extra Hard
KYOC2197	1901	5x10mm Bearing	(2)
KYOC2207	1903	4x8mm Bearing	(2)
KYOC2217	1911	8x14mm Bearing	(2)
KYOC3737	UM-08	Shaft Set	Front