RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY

OFF-ROAD RACER

ULTIMA II™

- SUPER LIGHTWEIGHT FOR QUICK ACCELERATION.
- LONG SUSPENSION TRAVEL FOR TOP HANDLING ON EVEN THE WORST TRACKS.
- NEW KELRON-TYPE CHASSIS FOR HIGH STRENGTH AND LIGHT WEIGHT.
- PERFECT COMBINATION OF SUSPENSION DESIGN AND WEIGHT DISTRIBUTION FOR TOP HANDLING.
- INDEPENDENT SUSPENSION ON ALL FOUR WHEELS WITH NEW RACE-TESTED GEOMETRY.
- OIL-FILLED SHOCK ABSORBERS ON ALL FOUR WHEELS.
- TRUE GEAR-TYPE DIFFERENTIAL.
- A QUALITY DESIGN FOR SIMPLE MAINTENANCE.
- MANY HIGH PERFORMANCE OPTIONAL PARTS ARE AVAILABLE.

1:10 SCALE

BATTERY: 7.2V-1200mAh NiCd
RADIO: 2-Channel
(Not Included)

KYOSHO® THE FINEST RADIO CONTROL MODELS

Kit No. 3118

Entire Contents © 1990, HOBBICO®, Inc.

V1.0

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 "Ultima II" 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 pruchaser 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 "Ultima II" 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 employes 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.

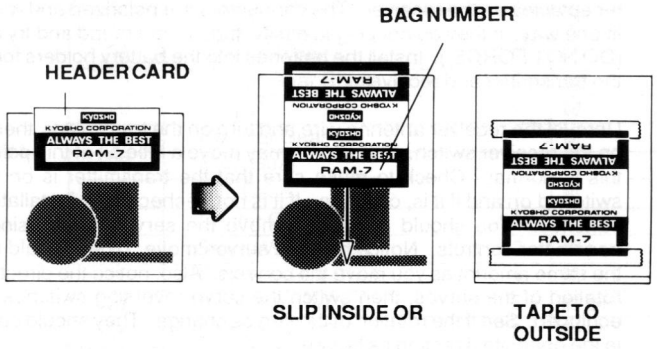
ULTIMA II™

IMPORTANT! BEFORE YOU BEGIN

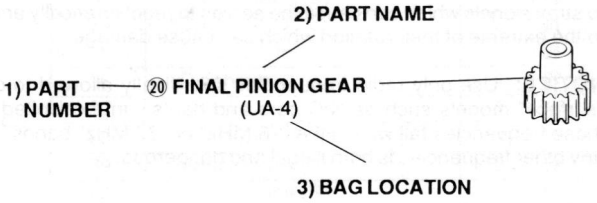
This is a sophisticated model with a large number of moving parts. Before you begin assembly, take a look through the box and these instructions carefully to decide whether or not you are ready for this challenge! If you do not think that this type of model is for you, it may be returned to the dealer 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

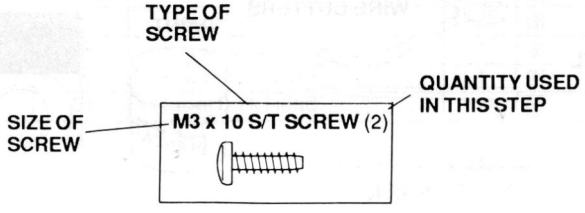
This Kyosho instruction manual uses a unique cross reference system to help you locate all of the bagged parts. DO NOT open each bag and dump out the parts. Carefully remove the header card from the bag and discard the staple. Slip the header card into the bag or tape it to the outside of the bag so that the bag number shows. These bag numbers will be used throughout the assembly process and will prove invaluable when locating parts.



In each step of assembly each part will be labeled with 1) The part number, 2) Part name, 3) Bag location.



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.



On page 26 you will find a complete list of parts used in this kit including the part number and total quantity supplied in the kit. On pages 5 and 6 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 25 for a complete listing of parts and stock numbers.

HELPFUL TIPS AND PRECAUTIONS

Some precautions need to be observed when building your model 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.

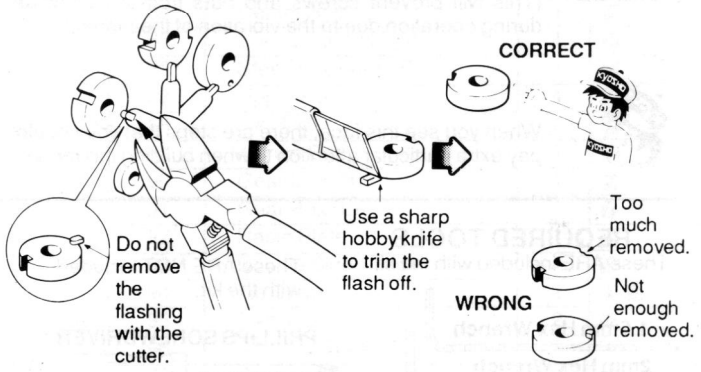
2. Place a mat or towel on the work surface where you will be building the kit. This will prevent parts from rolling off and will protect the work surface at the same time.

3. Try to avoid working over a shag carpet. In the event that a small part of 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.

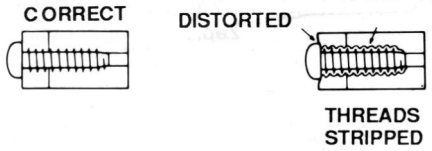
5. Avoid running the "Ultima II" in very cold temperatures. Both plastic and metal parts become brittle at low temperatures. In addition, grease and oil become very thick causing premature wear and deficent performance.

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.

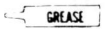
11. Take your time and read the directions thoroughly. It's not how fast you can assemble the kit but how fast it goes once it is assembled.

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 labled 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 labled 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.)

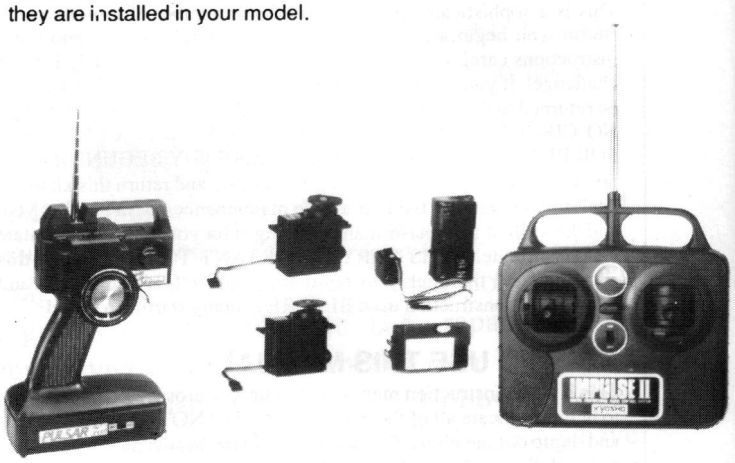
Places where Locktite (Zap Lock, etc.) should be applied. (This will prevent screws and nuts from loosening up during operation due to the vibration of the model.)

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 proir 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.

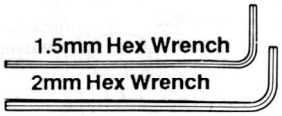
Unravel the receiver antenna wire and turn on the transmitter, then turn on the receiver switch. The servos may move a little bit at this point but this is normal. Check to make sure that the transmitter is on when switched on and if it is, continue. If it is not, recheck your installation of batteries. 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.

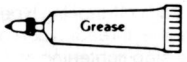
NOTICE: Use only radio frequencies specifically allowed to operate "surface" models such as R/C cars and boats. In the United States those frequencies fall with in the "75 MHz" or "27 MHz" bands. Use of any other frequencies is both illegal and dangerous.

REQUIRED TOOLS

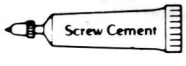
These ARE included with the kit.



Silicone Grease



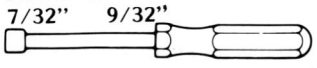
Screw Locking Compound



These ARE NOT included with the kit.

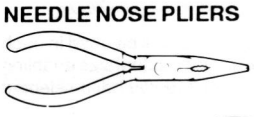
PHILLIPS SCREWDRIVER

5.5mm & 7mm NUT DRIVER
7/32" 9/32"

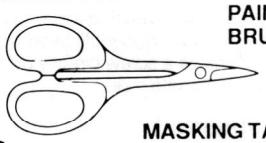


CYANOACRYLATE GLUE (such as Jet, Zap, Hot Stuff, or Krazy Glue.)

NEEDLE NOSE PLIERS

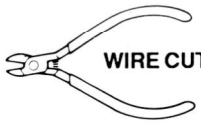


LEXAN SCISSORS

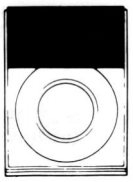


PAINT BRUSH

WIRE CUTTERS

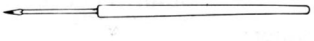


MASKING TAPE



PAINT

AWL



HOBBY KNIFE

LIST OF BAGGED PARTS (1)

Before assembly, open each bag one at a time and compare the parts in each bag to the parts listed below. Check the bag for the part and correct quantity. If you are not familiar with the names of some parts, turn to the step where that part is used, and refer to the labeled diagrams. Return all parts to the correct bag after checking the list. **NOTE:** The parts with a ★ by them are contained on a molded parts tree.

Bag #	Key #	Description	Qty	Step used in
UA-2	1	Rear Shaft (B)	2	11
	2	Motor Plate	1	5
	3	5.8mm Ball	2	2
	4	Front Shock Stay	1	14
	5	Rear Shock Stay	1	9
	6	4 x 8mm Bushing	4	35
	7	5 x 10mm Bushing	6	5 7 11
	8	10 x 14mm Bushing	2	4
UA-3	9	Front Rim	2	34
	10	Rear Rim	2	34
UA-4	11	Joint	2	4
	12	Rear Wheel Shaft	2	11
	13	Drive Washer	2	11
	14	Bevel Gear (A)	2	3
	15	Bevel Gear (B)	2	3
	16	Bevel Gear Shaft	1	3
	17	Pinion Gear	1	28
	18	Swing Shafts	2	12
	19	Center Gear Shaft	1	27
	20	Final Pinion Gear	1	6
	21	Counter Gear	1	5
	22	Main Gear	1	3
	23	Diff. Case	1	3
	24	Center Gear	1	27
	25	Front Wheel Shaft	2	13
	26	Counter Gear Shaft	1	5
	27	2 x 11mm Pin	3	5 6
	28	Servo Saver Guides	2	18
	29	Plate Post	2	25
	30	Bushing Collar	2	3
	31	4 x 8mm Bushing (L)	1	27
UA-5	32	O-Ring	1	27
	33	Shock Shaft (S)	2	1
	34	Shock Shaft (L)	2	1
	★ 35	Shock Piston Tree	4	1
	36	Diaphram	4	2
	37	Shock Spring (F)	2	2
	38	Shock Spring (R)	2	2
	39	Shock Case (F)	2	1
	40	Shock Case (R)	2	1
	★ 41	Shock Cap	4	2
	★ 42	Spring Retainer	4	2
	★ 43	Spring Spacer	4	2
	44	Cap Retainer	4	2
	45	Shock End	4	1
UA-6	46	E-Ring (E-2.5)	10	1
	★ 47	Front Hub	2	13
	★ 48	Rear Hub	2	11
	★ 49	Knuckle Arm (R)	1	13
	★ 50	Knuckle Arm (L)	1	13
	51	Front Bulk Head	1	14

Bag #	Key #	Description	Qty	Step used in
UA-6	52	Rear Axle Stopper	1	12
	53	Rear Bulk Head	1	9
	54	Gear Cover	1	29
	55	Front Sus. Arms	2	15
	56	Rear Sus. Arms	2	11
	★ 57	Servo Saver (A)	1	17
	★ 58	Servo Saver (B)	1	17
	★ 59	Servo Saver (C)	1	17
	★ 60	Servo Saver (D)	1	17
	★ 61	Servo Saver Collar	2	18
	★ 62	Gear Box Hatch	1	10
	★ 63	Servo Mounts	4	21
	★ 64	Shock Bushing	4	30 32
	★ 65	Antenna Mount	1	25
	★ 66	Front Body Mount	1	23
	★ 67	Wing Mount	2	31
	★ 68	Wing Adjuster	2	31
	★ 69	Adjuster Retainer	2	31
	★ 70	Wing Washer	4	40
	★ 71	Battery Holder	2	36
	★ 72	Battery Mount	4	36
	★ 73	Battery Mount Spacer (A)	4	36
	★ 74	Battery Mount Spacer (B)	4	36
UA-7	121	Bumper	1	30
	75	Ball End (LG)	12	8
	76	Ball End (SM)	2	21
	77	Ball Nut	1	17
	78	2.6mm Pivot Ball	6	9 13 17
	79	3mm Pivot Ball	8	11 13 14 32
	80	Rear Shaft (A)	2	11
	81	Front Shaft (A)	2	15
	82	Front Shaft (B)	2	15
	83	King Pin	2	13
	84	Center Rod	1	17
	85	Speed Control Rod	1	21
	86	Steering Control Rod	1	21
	87	Upper Rod	4	8
	88	Tie Rod	2	8
	89	4.8mm Ball	1	23
UA-8	90	Gear Box (R)	1	5
	91	Gear Box (L)	1	7
	92	Radio Plate	1	23
	93	Double Sided Tape	1	33
	94	Tie Strap	2	23 33
	95	Battery Strap	2	36
	96	Antenna Tube	1	33
	97	Shock Oil	1	2
	98	Screw Cement	1	
	99	Silicone Grease	1	
	100	4-Way Wrench	1	
	101	Gear Cover Seal	1	29

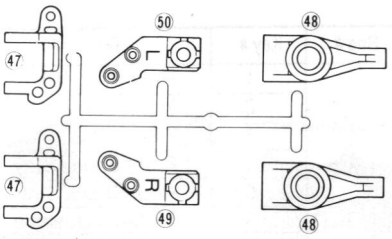
LIST OF BAGGED PARTS (2)

Bag #	Key #	Description	Qty	Step used in
UA-8	102	Speed Control	1	
	103	Resistor	1	
	104	Resistor Heatsink	1	
	105	Resistor Base	1	
	106	Resistor Bracket	1	
	107	Motor	1	
	108	Motor Leads	1	
	109	Front Tire	2	
	110	Rear Tire	2	
	111	Body	1	
	112	Chassis	1	
	113	Wing	1	
	114	Decal Sheet	1	
			1	
UA-1	46	E-Ring (E-2.5)	9	
	115	E-Ring (E-3)	3	
	116	E-Ring (E-4)	2	
	117	Body Pin (small)	7	
	118	Body Pin (large)	2	
	119	Hex Wrench (1.5)	1	
	120	Hex Wrench (2)	1	
		M2 x 4 Screw	1	
		M3 x 16 Screw	4	
		M3 x 33 Screw	3	
		M2.6 x 6 Screw	1	
		M3 x 6 F/H Screw	10	
		M3 x 1 F/H Screw8	4	
		M3 x 35 F/H Screw	1	
		M4 x 8 S/T Screw	4	
		M3 x 6 S/T Screw	4	
		M4 x 8 S/T Screw	8	
		M4 x 12 S/T Screw	4	
		M2 x 8 S/T Screw	1	
		M2 x 10 S/T Screw	4	
		M3 x 18 S/T Screw	1	
		M2.6 x 12 S/T Screw	4	
		M3 x 8 S/T Screw	18	
		M3 x 10 F/H, S/T Screw	3	
		M3 x 10 F/H, S/T Screw	2	
		M3 x 15 S/T Screw	5	
		M3 x 3 Set Screw	1	
		M4 x 4 Set Screw	2	
		M2.6 Nut	8	
		M3 Nut	10	
		M3 Nylon Nut	4	
		M4 Washer	4	
		M3 Washer	1	
		M4 Washer	2	
		M5 Washer	2	

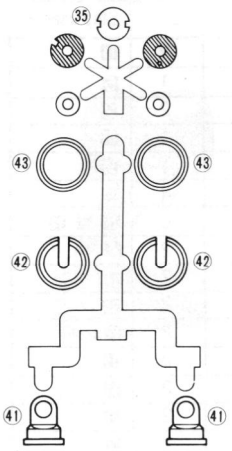
PLASTIC PARTS TREE LAYOUTS

The plastic parts trees are shown below to help identify the location of parts on the trees.

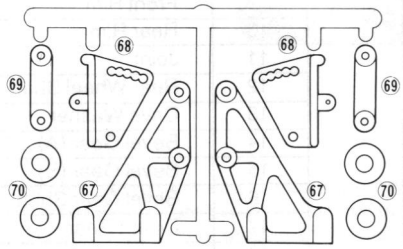
KNUCKLE ARMS



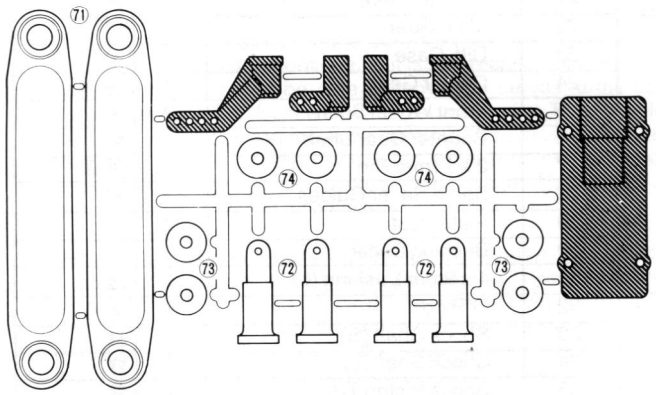
SHOCK PISTONS



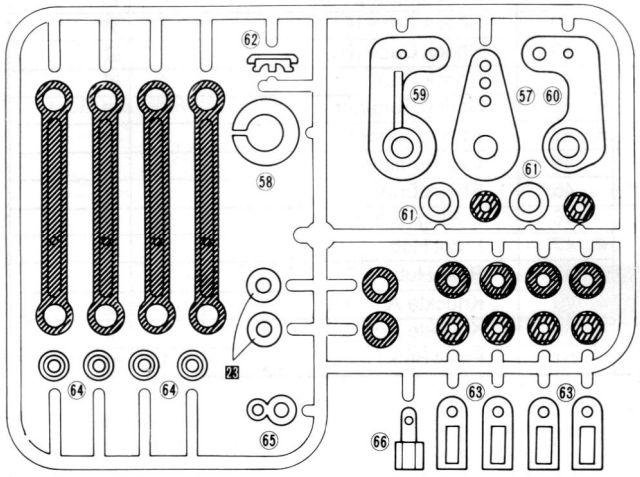
WING MOUNT



BATTERY MOUNTING ACCESSORIES

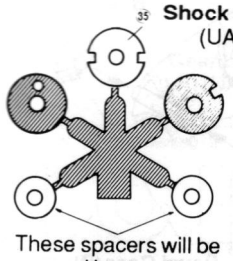


SERVO ACCESSORIES



1 SHOCK ASSEMBLY

Step 1

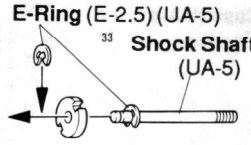


35 **Shock Piston** (UA-5)

The shaded area will not be used.

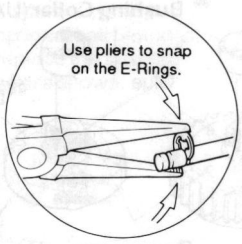
These spacers will be used in step 23.

46 **E-Ring** (E-2.5) (8)

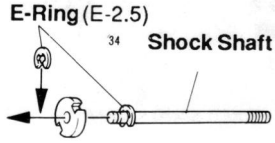


46 **E-Ring** (E-2.5) (UA-5)

33 **Shock Shaft** (S) (UA-5)



Use pliers to snap on the E-Rings.



46 **E-Ring** (E-2.5)

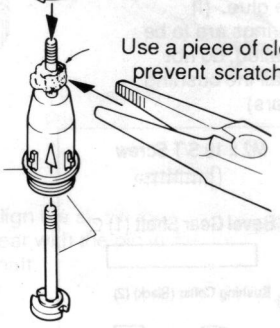
34 **Shock Shaft** (L) (UA-5)

Step 2

Install the shock end.

45 **Shock End** (UA-5)

Use a piece of cloth to prevent scratching.



39 **Shock Case** (F) (UA-5)

40 **Shock Case** (R) UA-5

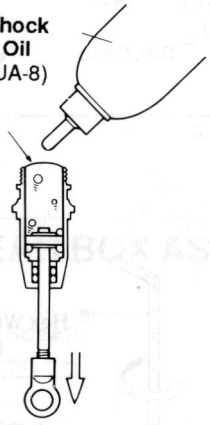
2 FILLING THE SHOCKS WITH OIL

Step 1

Pull the piston all the way down and slowly add oil. When full, slowly move the piston up and down. This will help eliminate air bubbles.

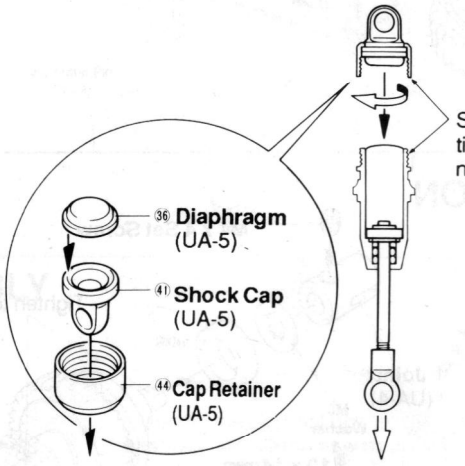
97 **Shock Oil** (UA-8)

Fill to the rim.



Step 2

Pull the piston all the way down. Now, gently screw on the cap assembly.



Screw on tightly so it will not leak.

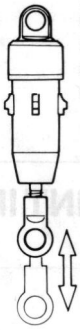
36 **Diaphragm** (UA-5)

41 **Shock Cap** (UA-5)

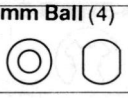
44 **Cap Retainer** (UA-5)

Step 3

Check the shock's operation. It should be smooth and quiet. If not, remove the cap and repeat the steps.

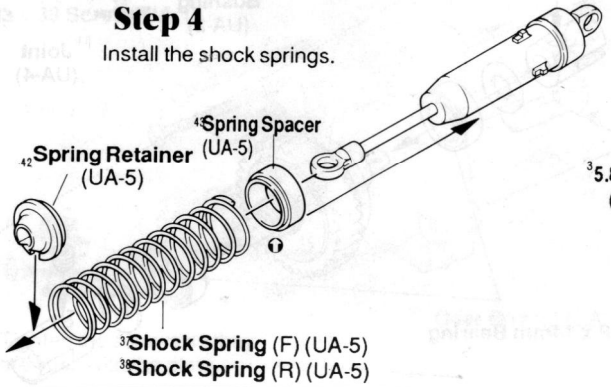


3 **5.8mm Ball** (4)



Step 4

Install the shock springs.



4 **Spring Spacer** (UA-5)

42 **Spring Retainer** (UA-5)

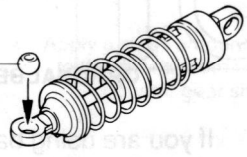
37 **Shock Spring** (F) (UA-5)

38 **Shock Spring** (R) (UA-5)

Step 5

Install the 5.8mm ball.

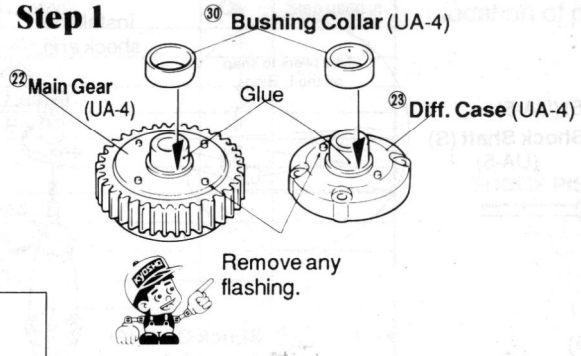
3 **5.8mm Ball** (UA-2)



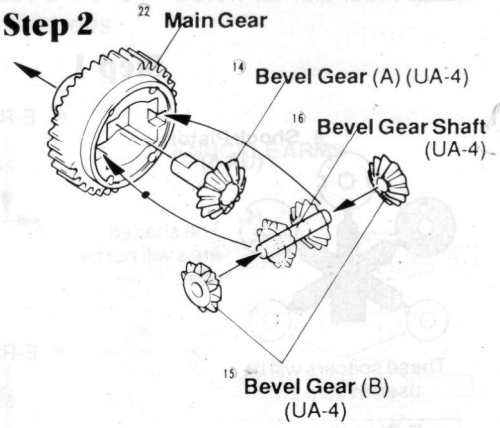
3 DIFFERENTIAL ASSEMBLY

Glue the bushing collars to the main gear and to the differential case using an instant type glue. (If bearings are to be installed, do not install the bushing collars)

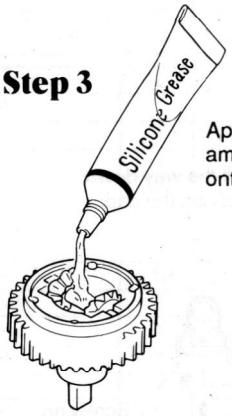
Step 1



Step 2

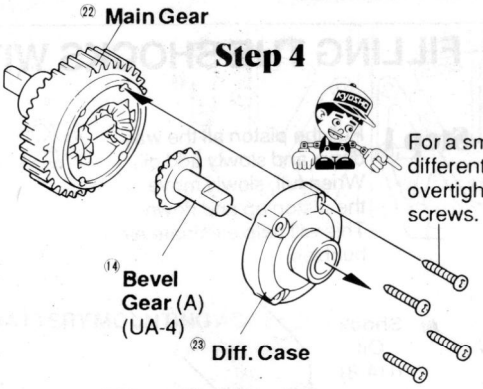


Step 3

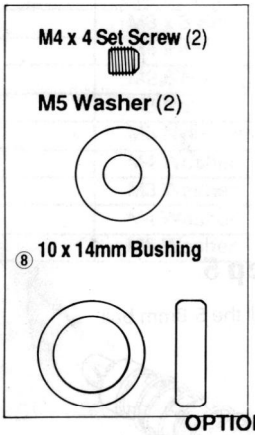


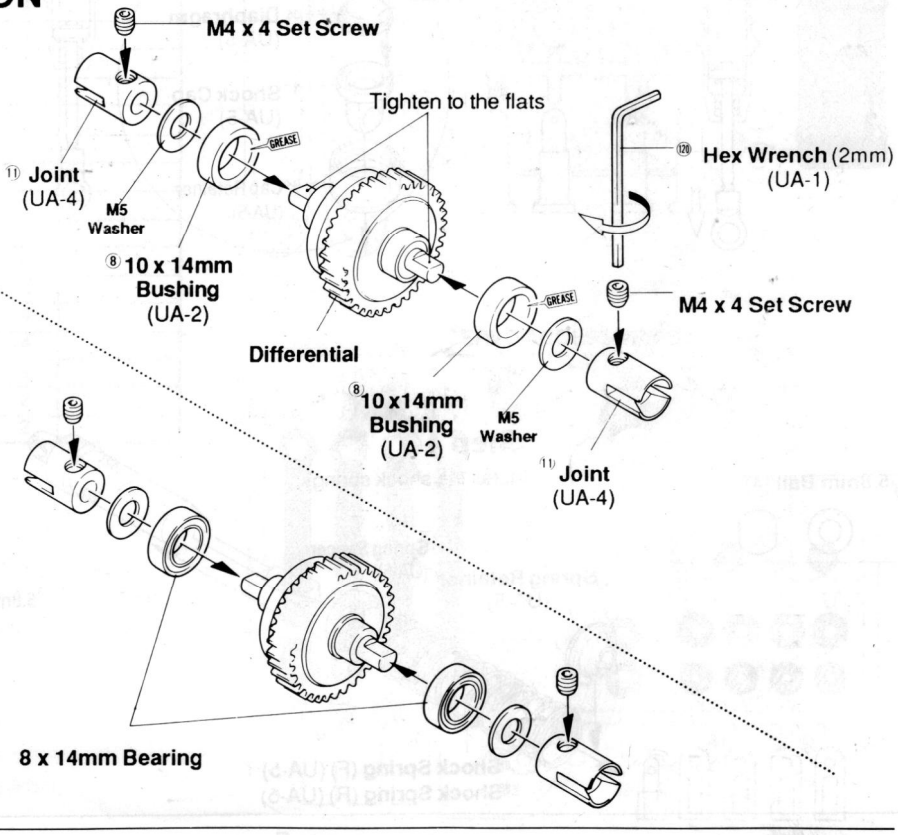
Apply a liberal amount of grease onto the gears.

Step 4



4 JOINT INSTALLATION



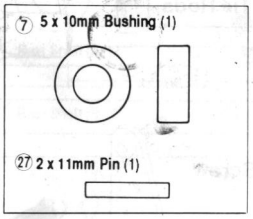


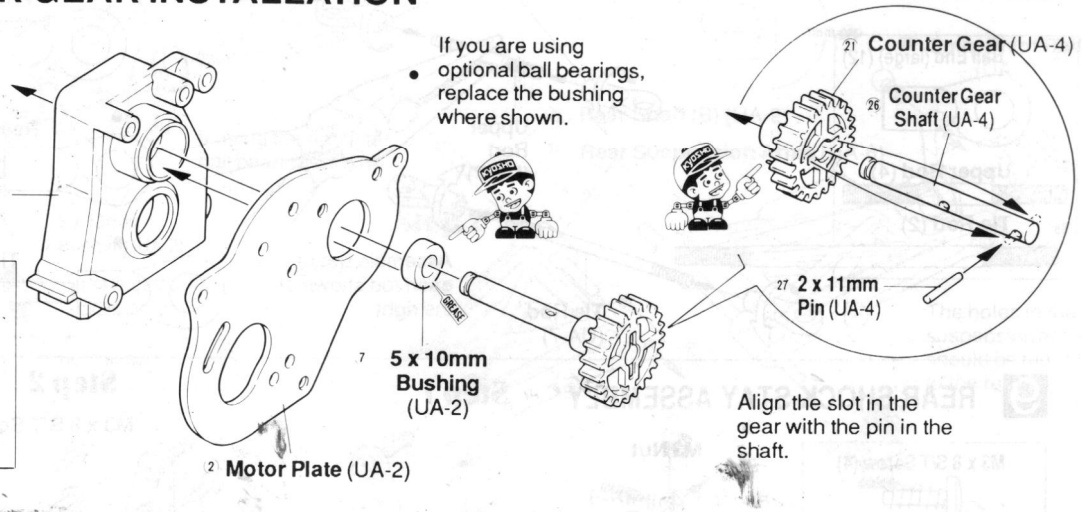
OPTIONAL BEARINGS

If you are using ball bearings, install them now.

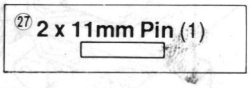
#1911 8 x 14mm Bearing

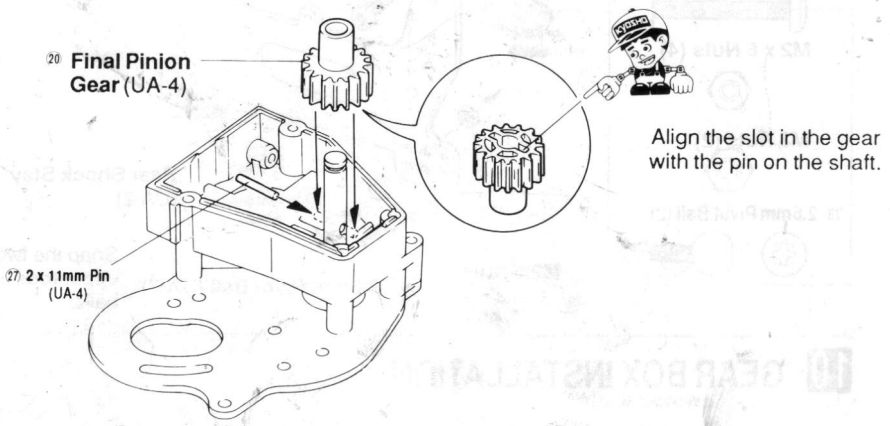
5 COUNTER GEAR INSTALLATION



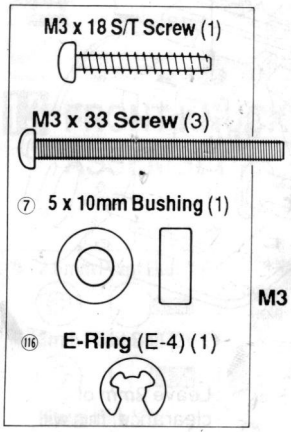


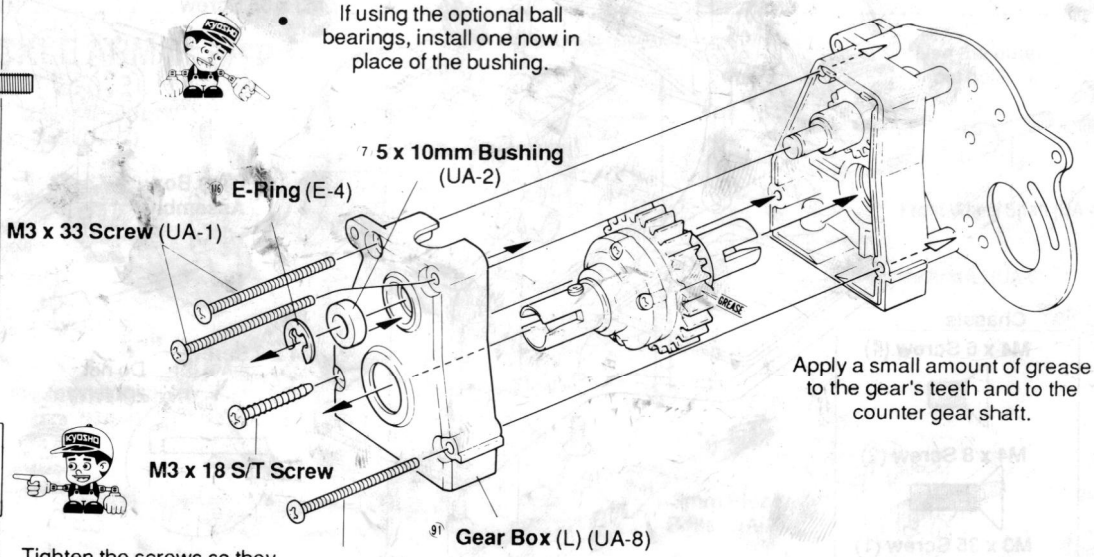
6 FINAL PINION INSTALLATION

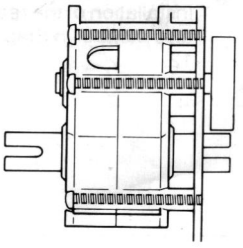




7 GEAR BOX ASSEMBLY

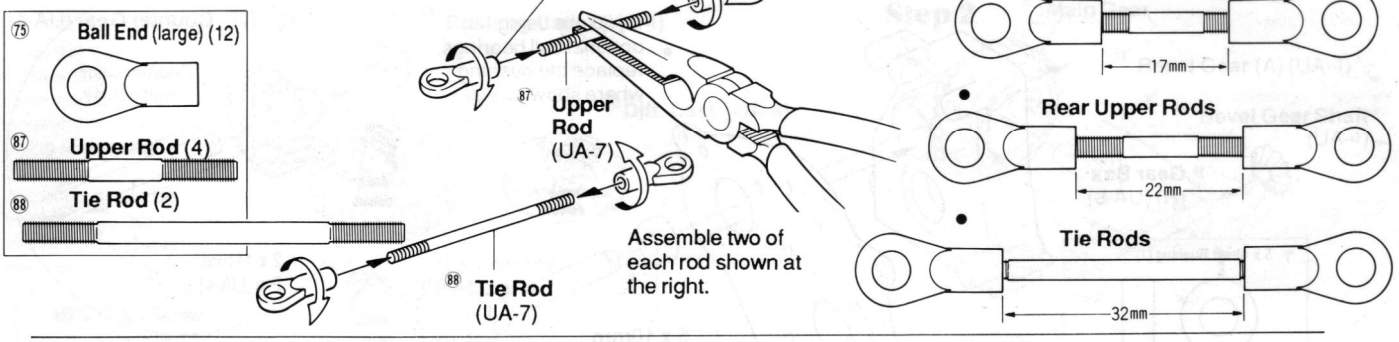




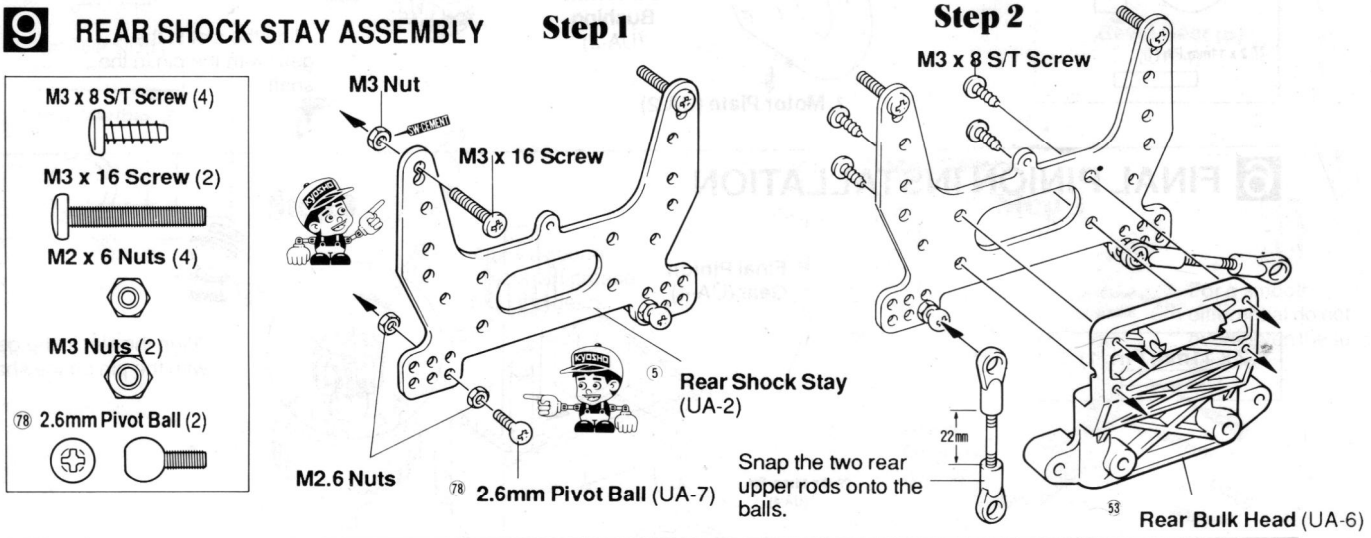


Tighten the screws so they are flush with the plate.

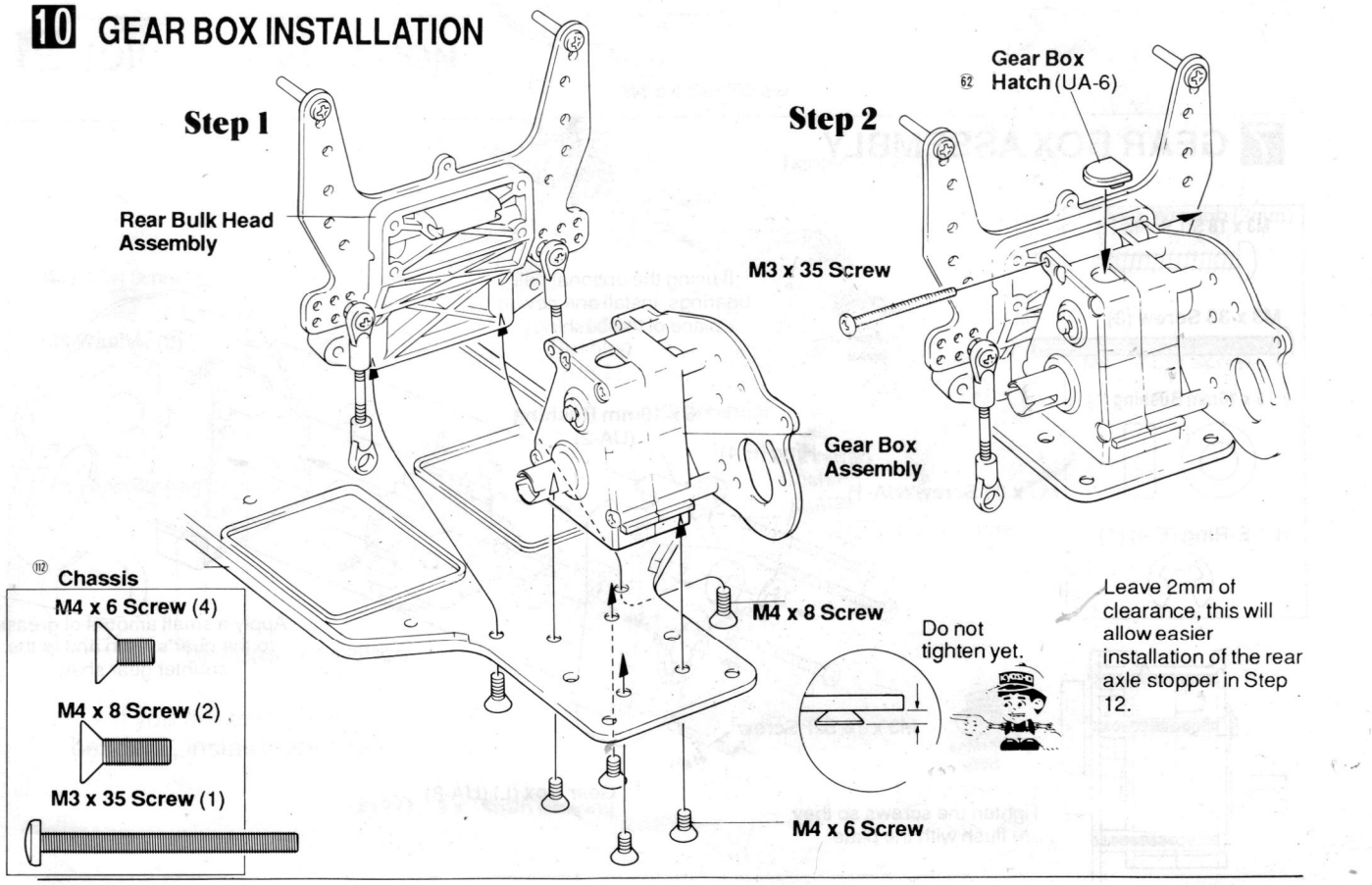
8 CONTROL ROD ASSEMBLY



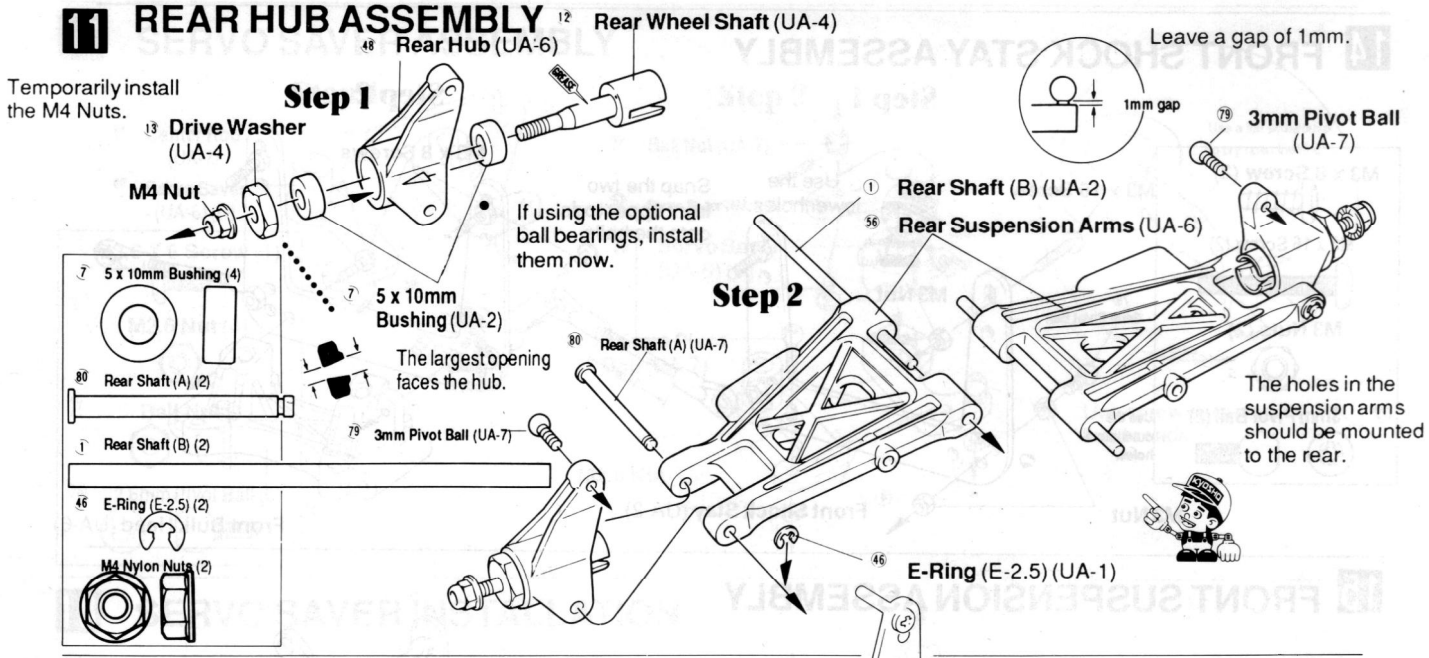
9 REAR SHOCK STAY ASSEMBLY



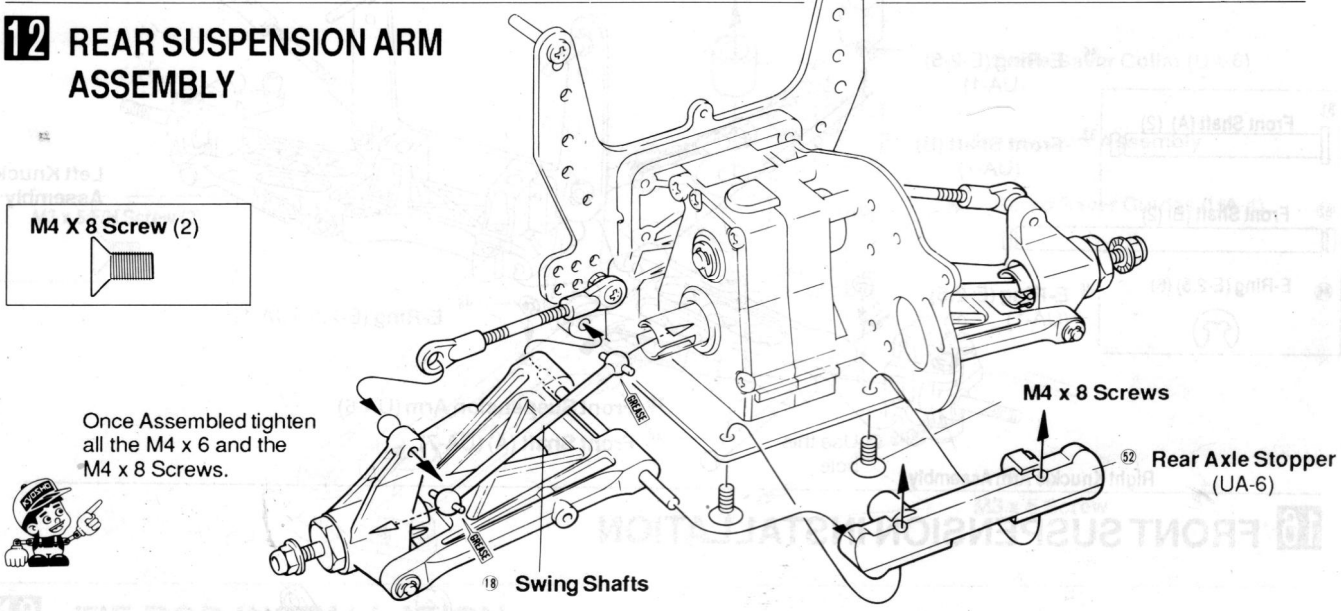
10 GEAR BOX INSTALLATION



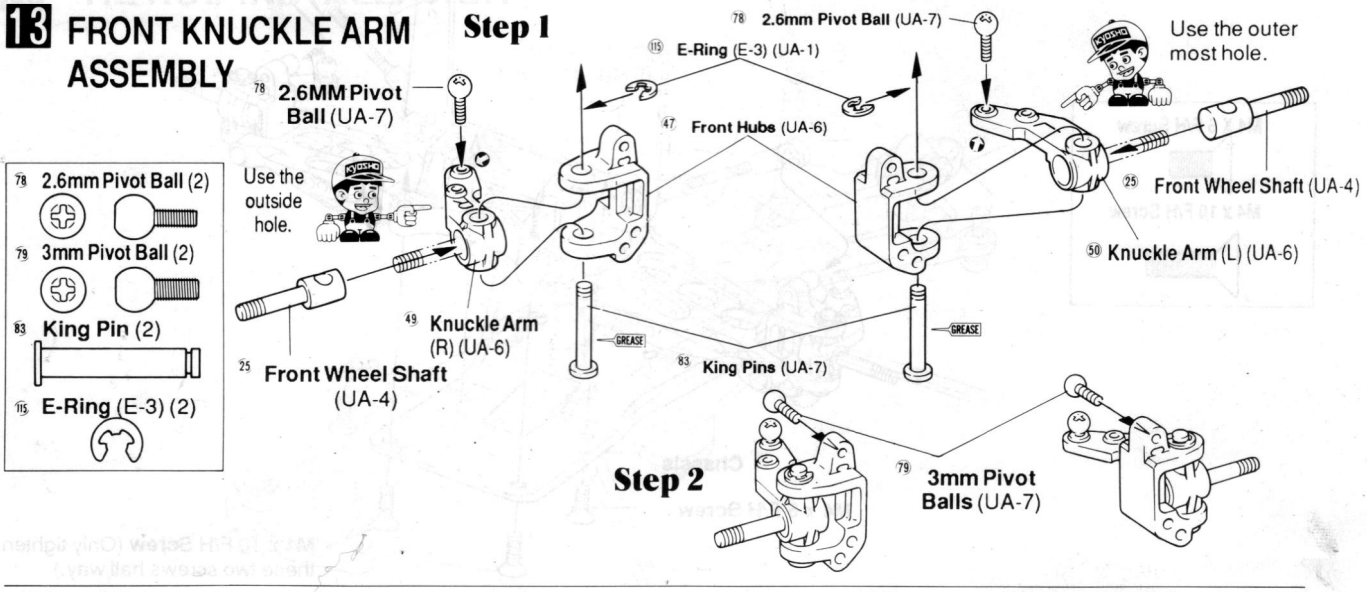
11 REAR HUB ASSEMBLY



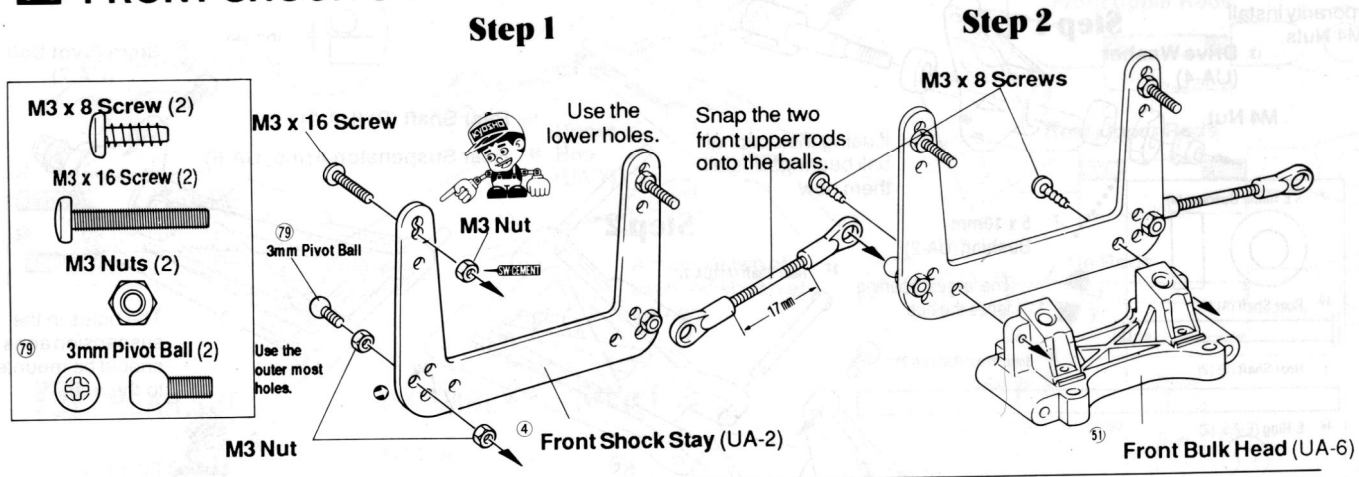
12 REAR SUSPENSION ARM ASSEMBLY



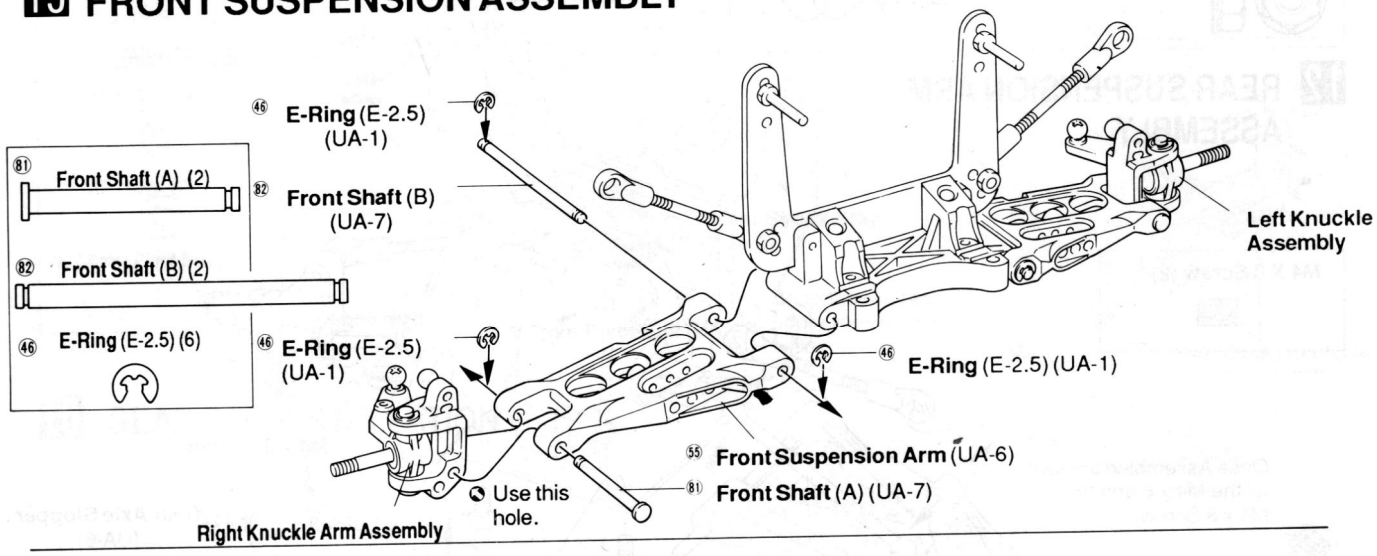
13 FRONT KNUCKLE ARM ASSEMBLY



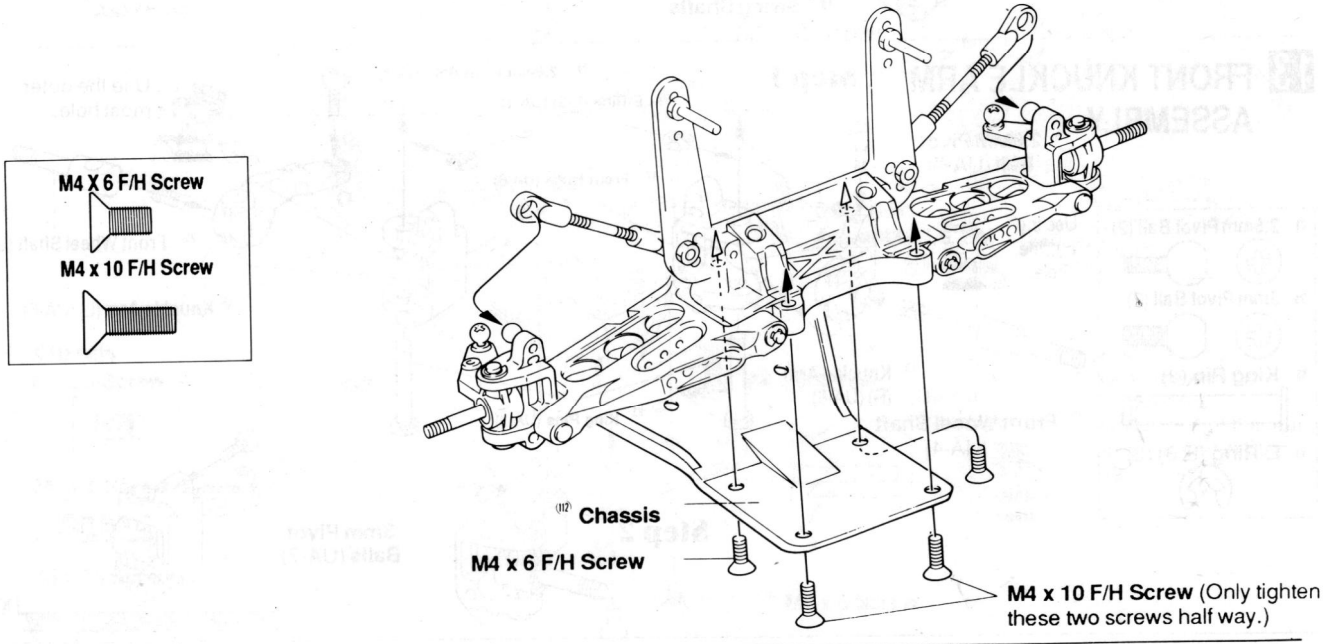
14 FRONT SHOCK STAY ASSEMBLY



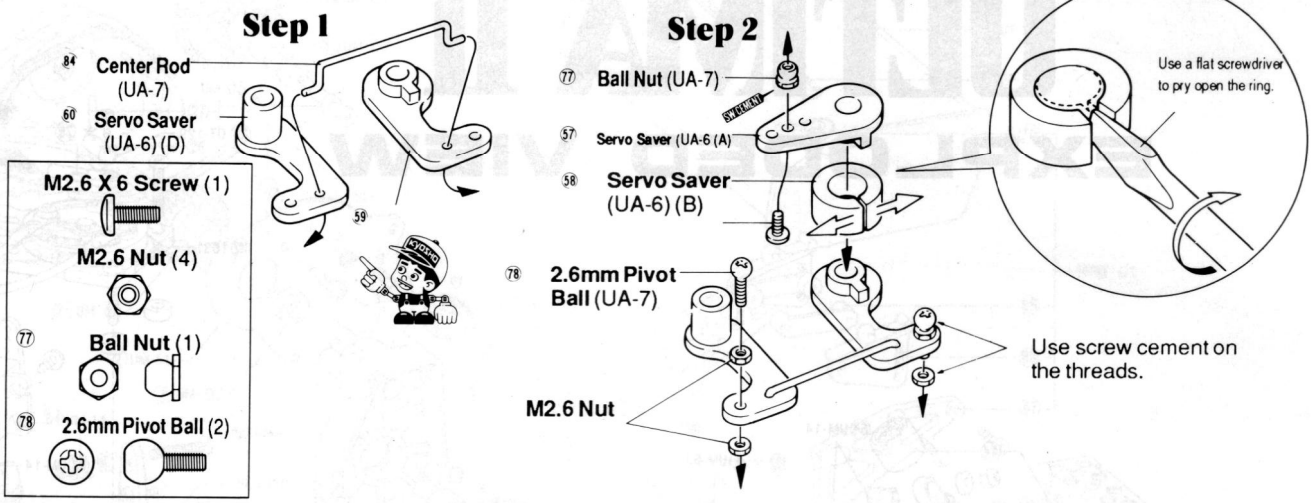
15 FRONT SUSPENSION ASSEMBLY



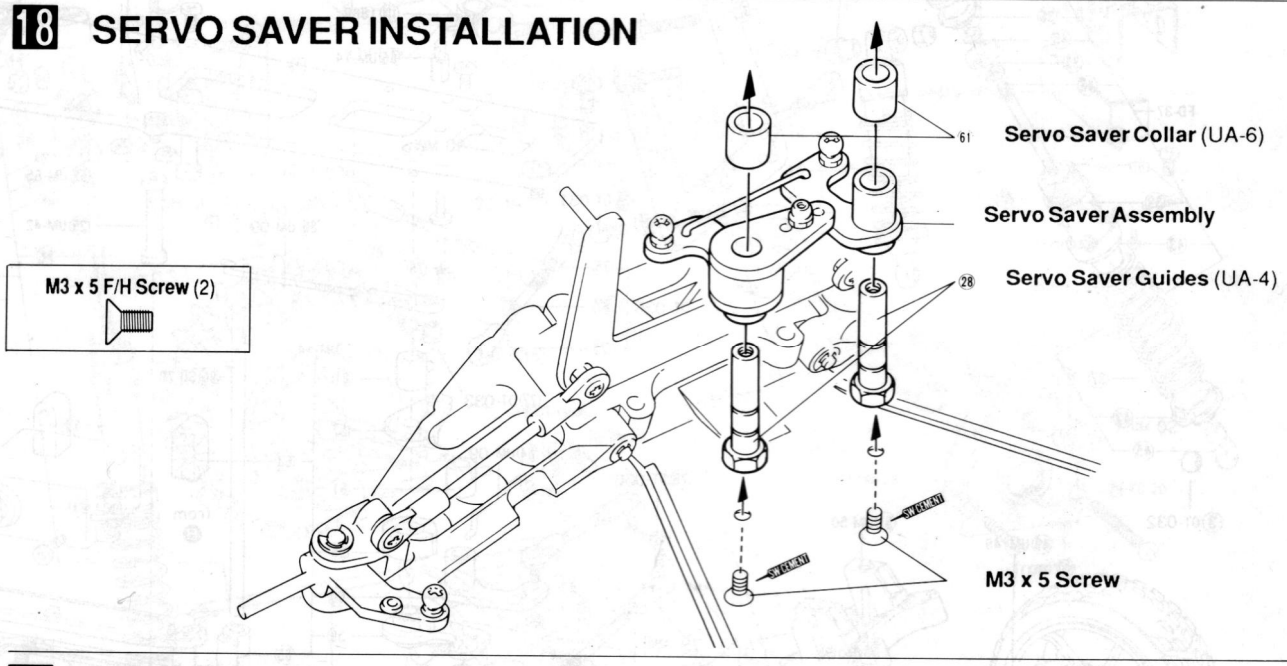
16 FRONT SUSPENSION INSTALLATION



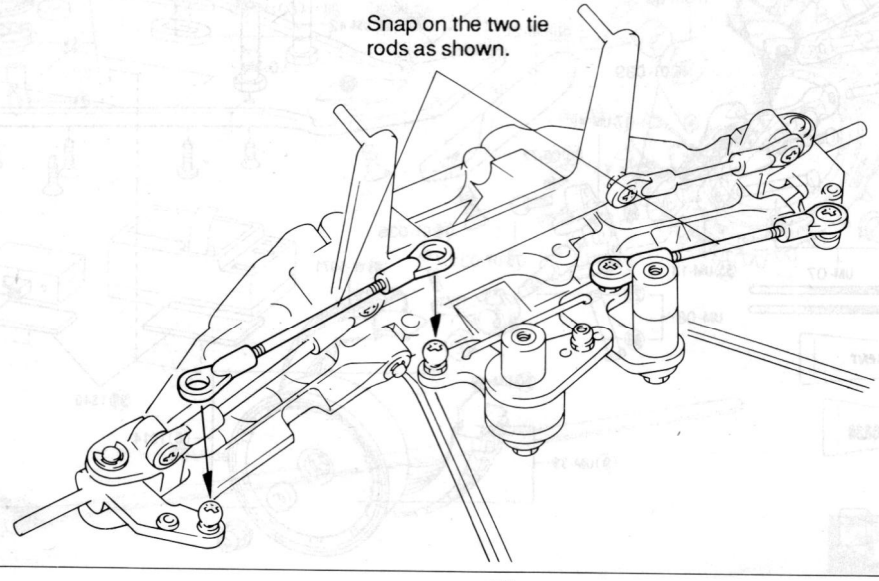
17 SERVO SAVER ASSEMBLY



18 SERVO SAVER INSTALLATION



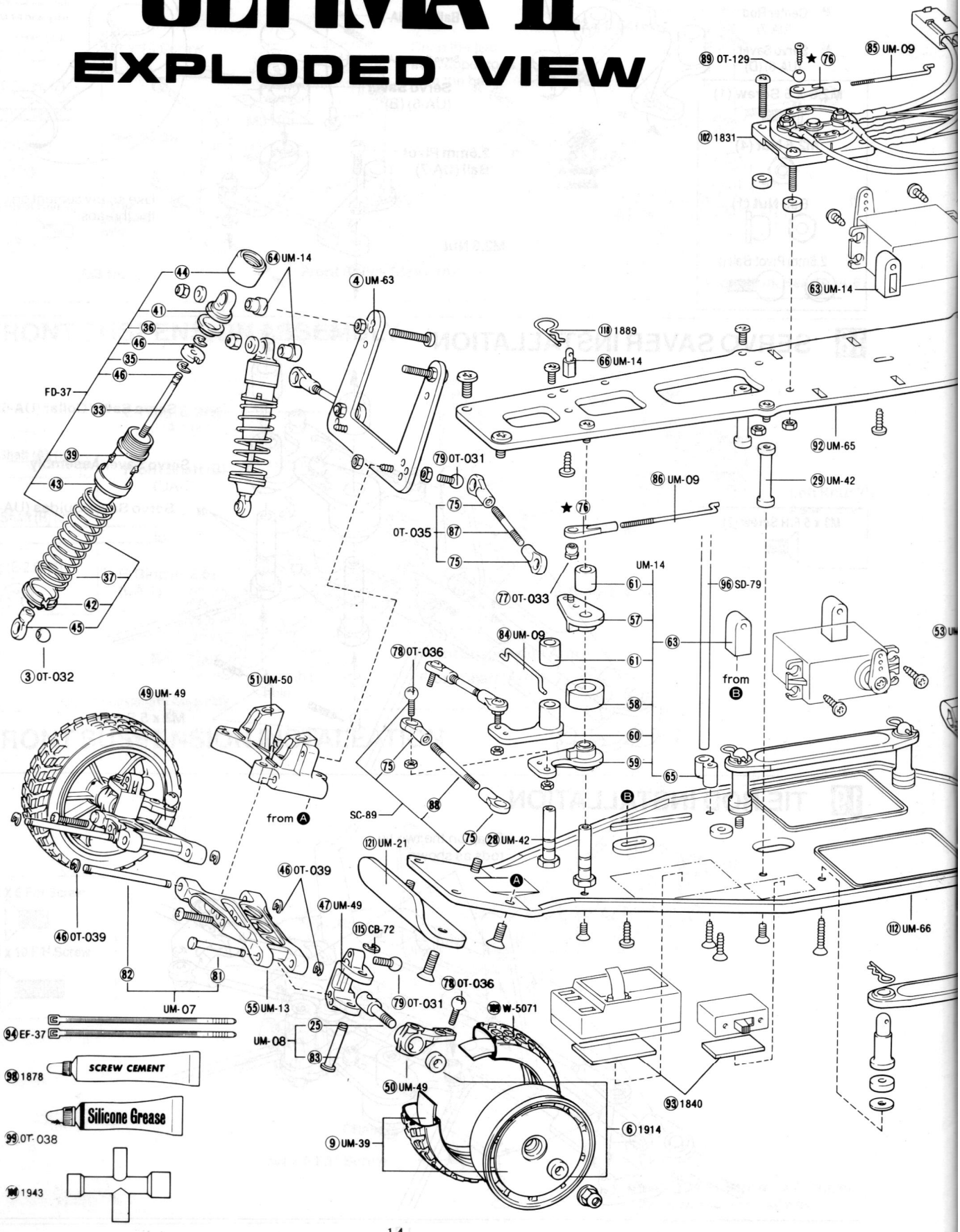
19 TIE ROD INSTALLATION

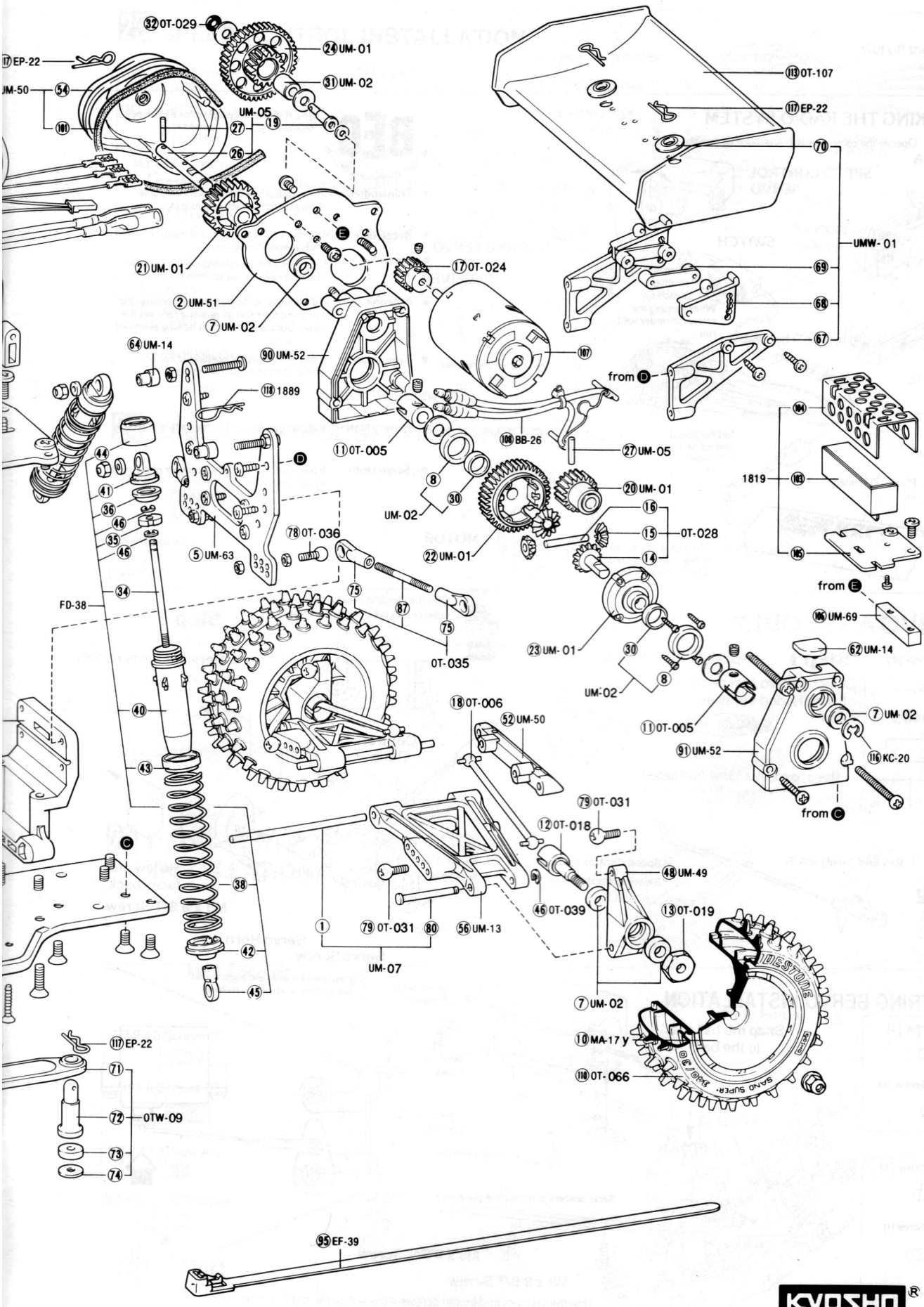


OFF-ROAD RACER

ULTIMA II™

EXPLODED VIEW

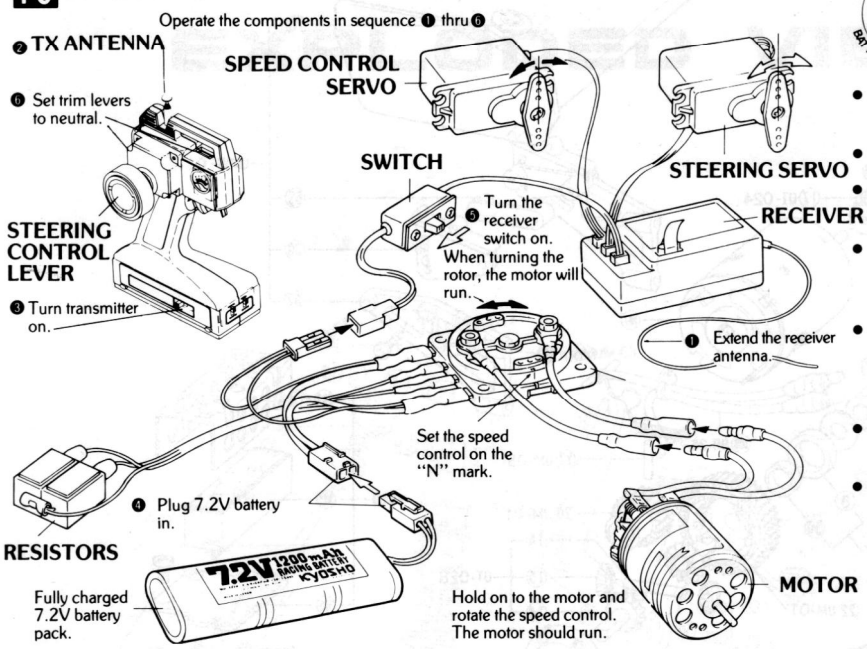




KYOSHO®

NO. 3118

19 CHECKING THE RADIO SYSTEM



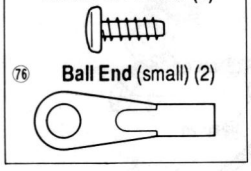
BEC — BATTERY ELIMINATOR CIRCUITRY

The R/C car is designed for BEC type receiver only.

- **Transmitter** ···· It is a control box that produces a signal according to the stick movement.
- **Receiver** ····· It receives the signal from the transmitter and sends a signal to the servo.
- **Servo** ····· They move the mechanism of the car in accordance with the signal from the receiver.
- **Antenna** ····· The antenna on the transmitter transmits the signal and the receiver antenna receives the signal. Both antennas must be fully extended.
- **Trim Lever** ····· It adjusts the neutral position of the servo and allows fine tuning of the servo position.
- **Battery Meter** It allows you to monitor the battery power.
- **Servo Horn** It transmits the mechanical power of the servo to the control rod.

21 SERVO ASSEMBLY

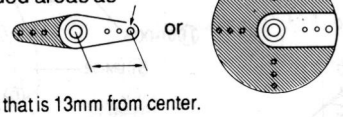
M3 x 8 S/T Screw (4)



⑯ Ball End (small) (2)

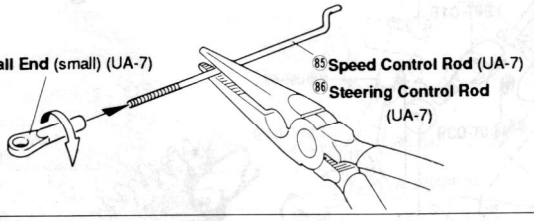
Step 1 Repeat this step for both servos.

Select a servo arm and trim off the shaded areas as shown.



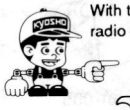
Use a hole that is 13mm from center.

Step 2



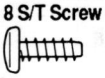
Step 3

With the servo in neutral postion with the radio on, install the arm as shown.



22 STEERING SERVO INSTALLATION

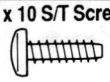
M3 x 8 S/T Screw (1)



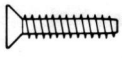
M3 x 8 F/H, S/T Screw (1)

OPTIONAL

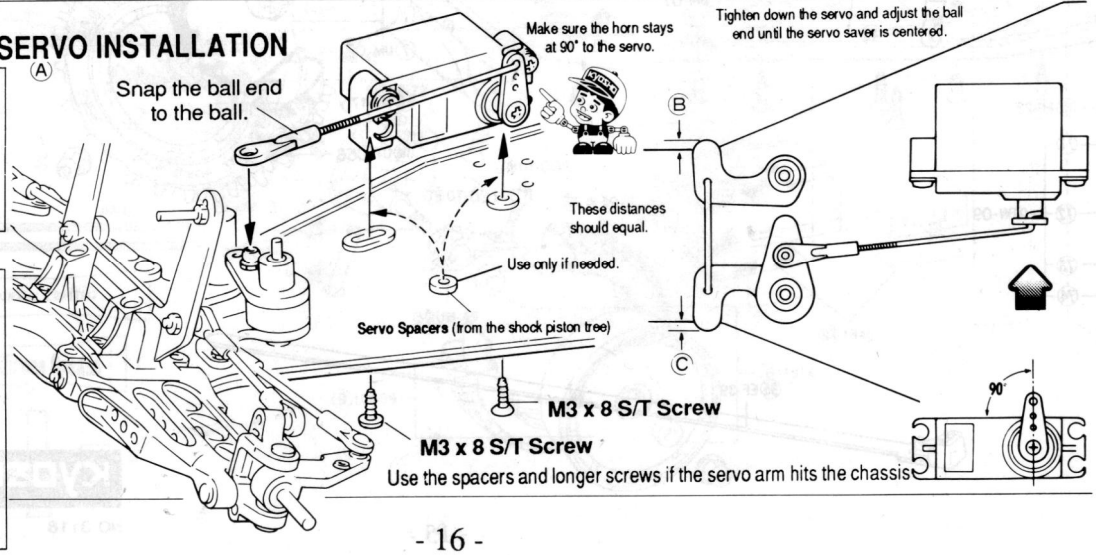
M3 x 10 S/T Screw (1)



M3 x 12 F/H, S/T Screw (1)

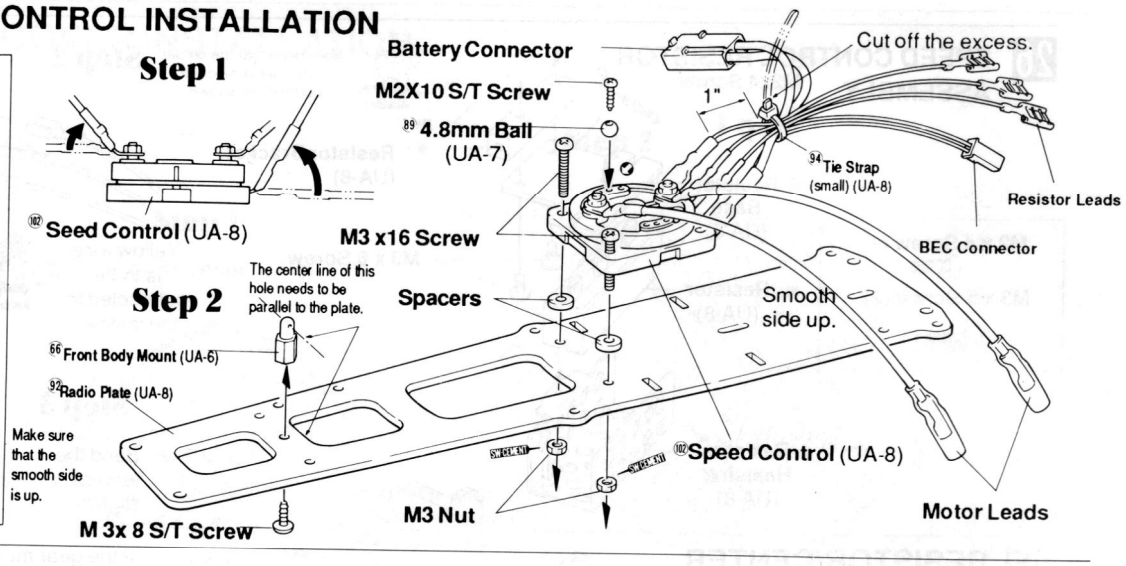


(㉟) Servo Spacers (2)



23 SPEED CONTROL INSTALLATION

M2 X 10 S/T Screw (1)
M3 x 8 S/T Screw (1)
M3 x 16 Screw (2)
M3 Nut (2)
Spacers (2)
From Step 1
89 4.8mm Ball (1)

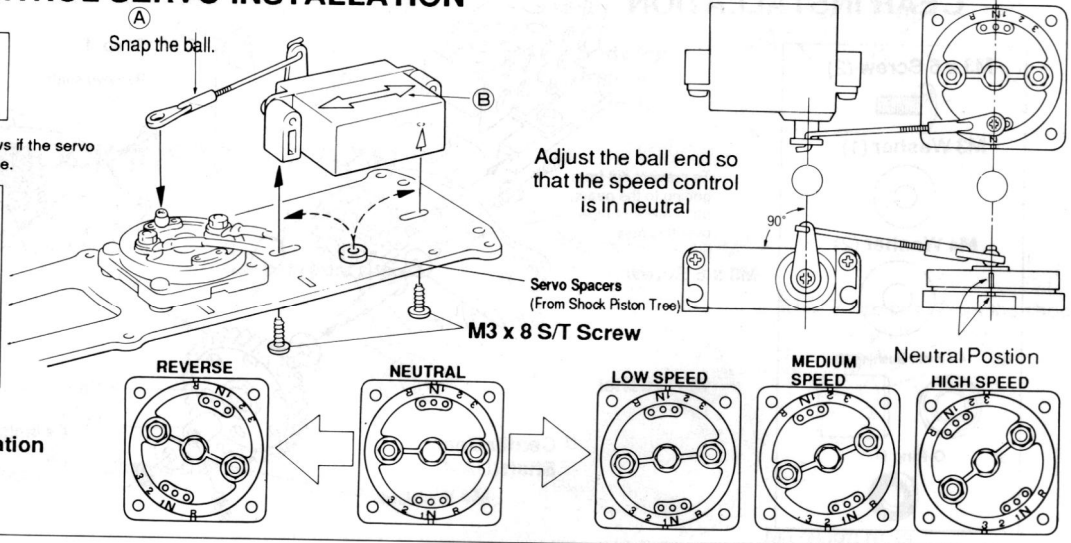


24 SPEED CONTROL SERVO INSTALLATION

M3 x 8 S/T Screw(2)

Use the spacers and longer screws if the servo horn hits the radio plate.

M3 x 10 S/T Screw (2)
Servo Spacers (2)



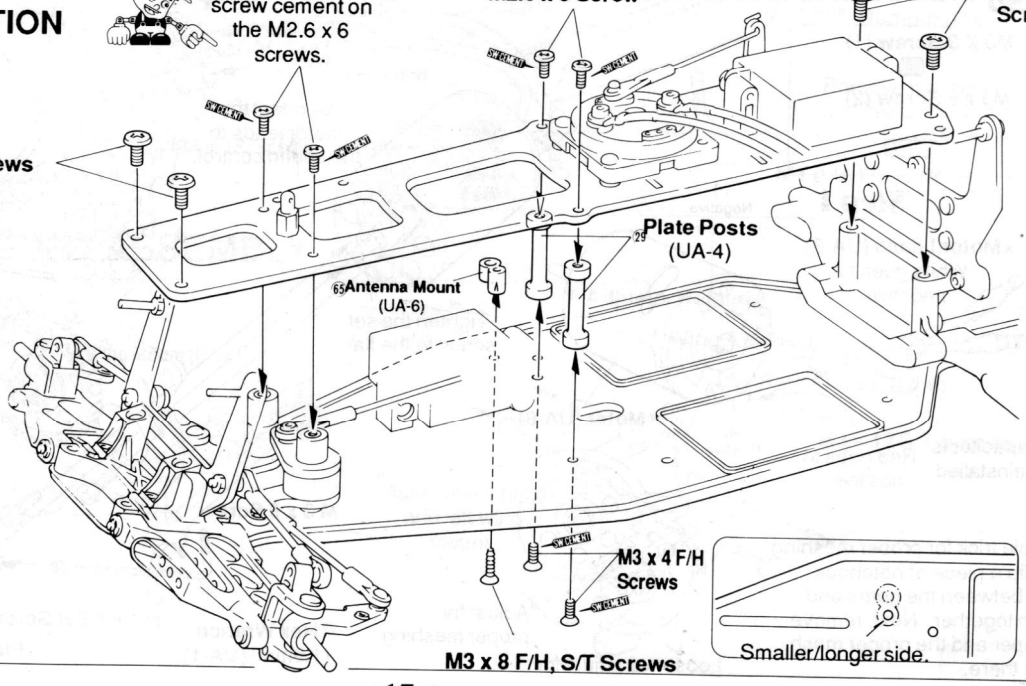
Speed Control Operation

25 RADIO PLATE INSTALLATION

Be sure to use screw cement on the M2.6 x 6 screws.

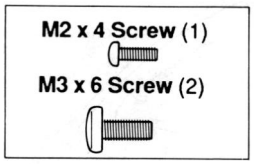
M2.6 x 6 Screw
M4 x 8mm Screws
M4 X 8 Screws

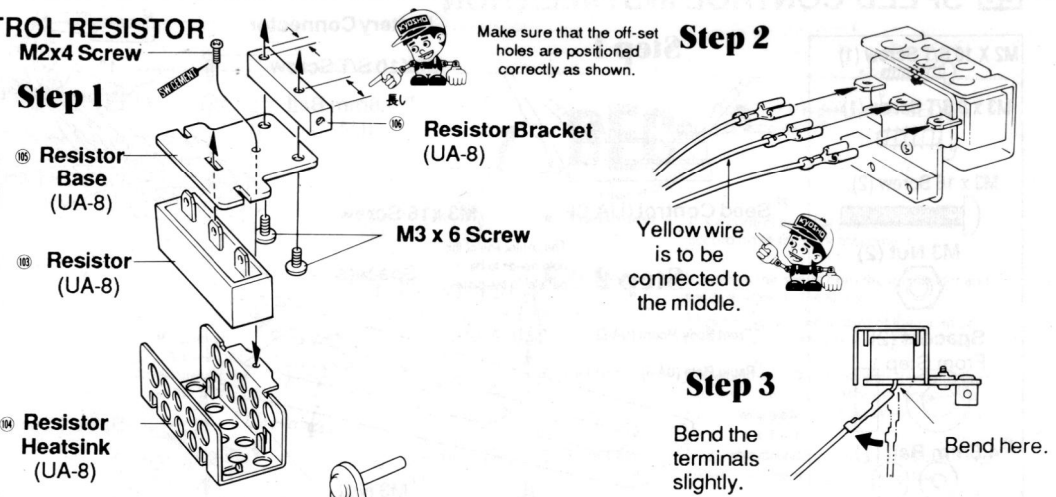
M2.6 x 6 Screws (4)
M4 x 8 Screws (4)
M3 x 4 F/H Screw (2)
M3 x 8 F/H, S/T Screw (1)



26 SPEED CONTROL RESISTOR ASSEMBLY

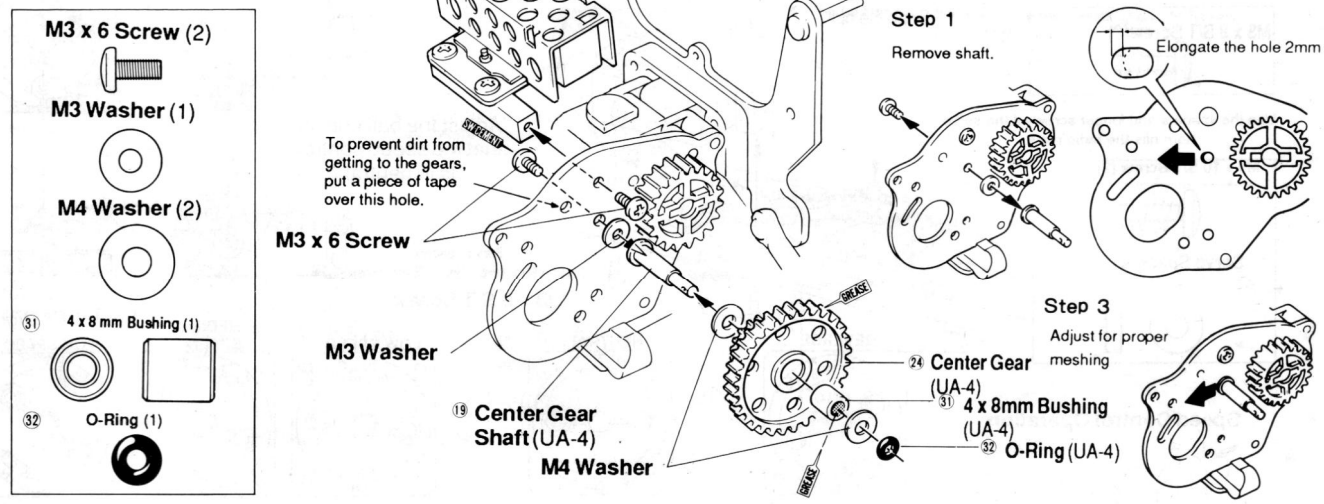
M2 x 4 Screw (1)
M3 x 6 Screw (2)





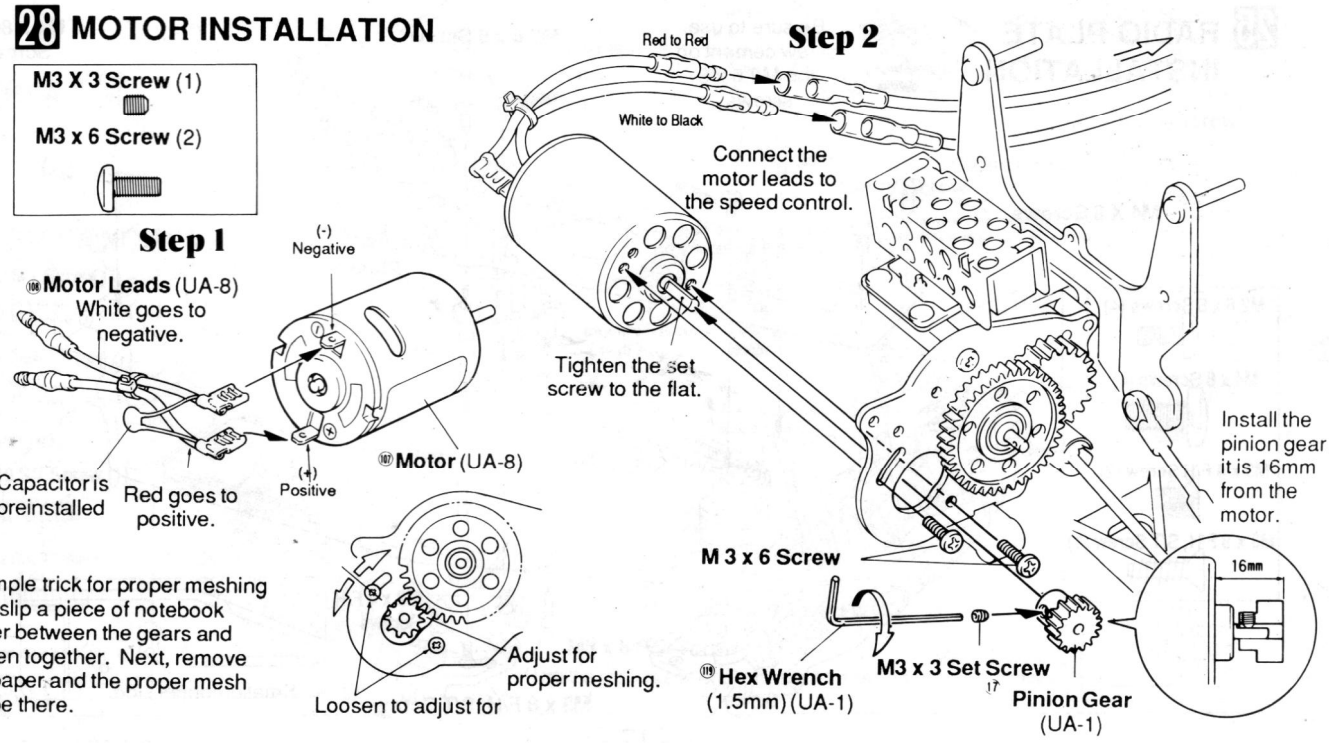
27 RESISTOR/CENTER GEAR INSTALLATION

M3 x 6 Screw (2)
M3 Washer (1)
M4 Washer (2)
31 4 x 8 mm Bushing (1)
32 O-Ring (1)



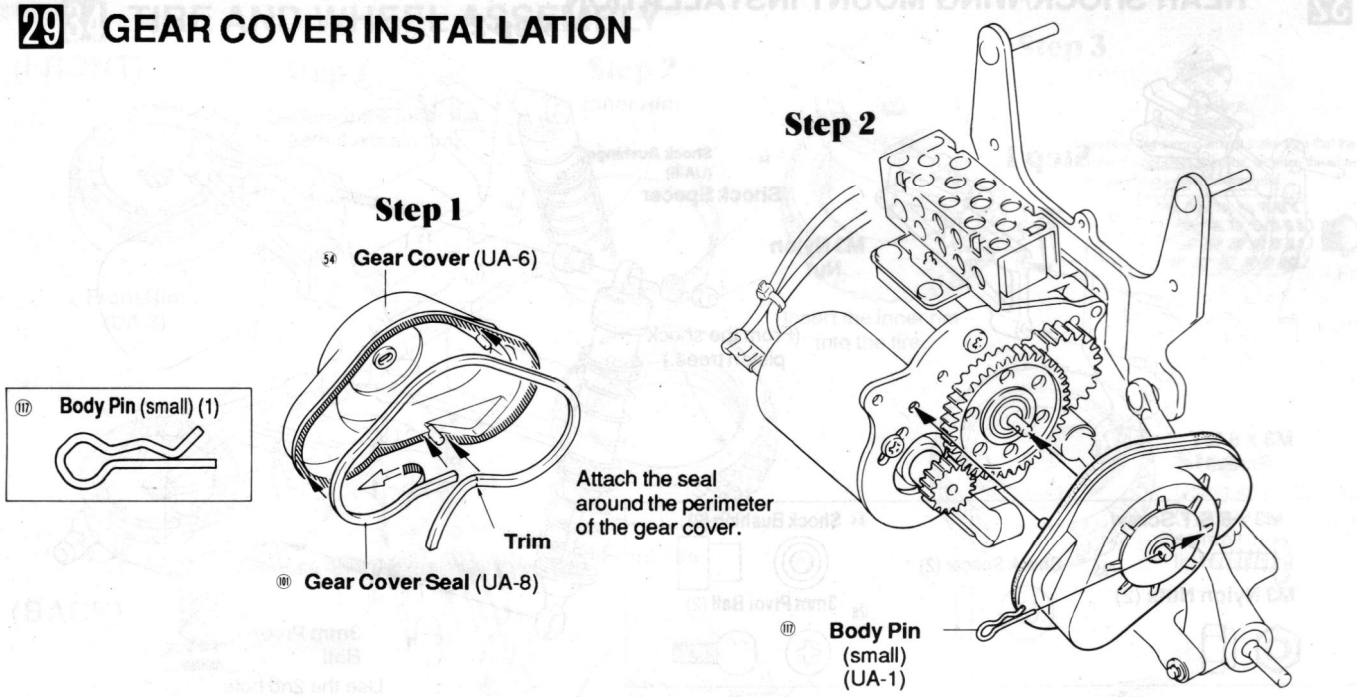
28 MOTOR INSTALLATION

M3 X 3 Screw (1)
M3 x 6 Screw (2)

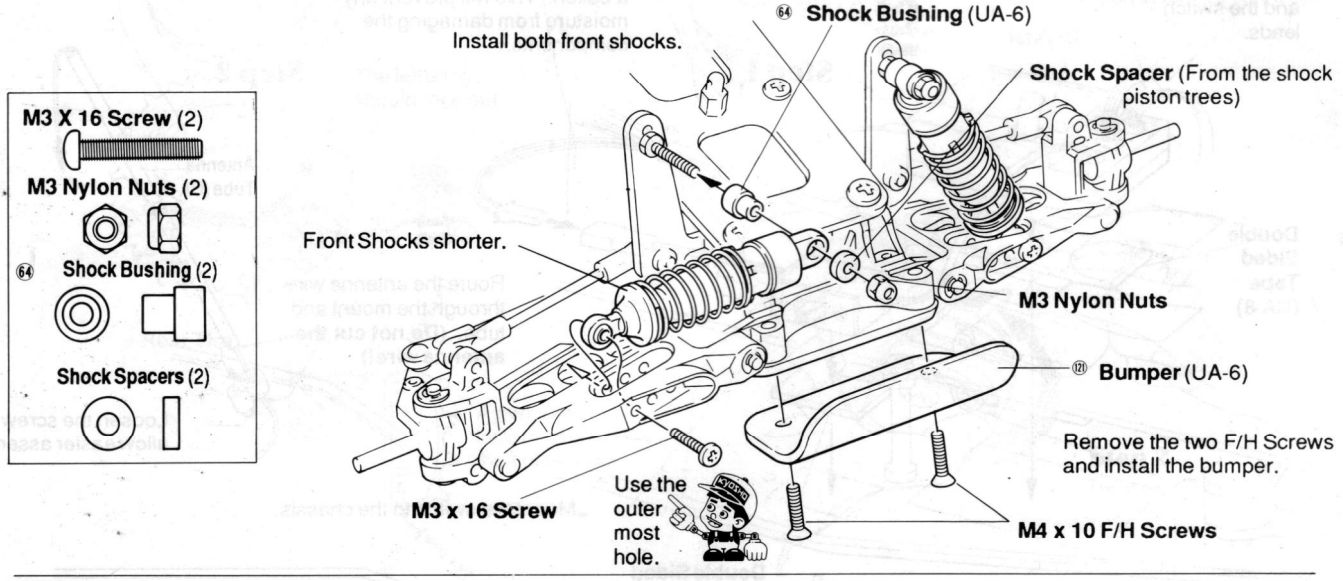


A simple trick for proper meshing is to slip a piece of notebook paper between the gears and tighten together. Next, remove the paper and the proper mesh will be there.

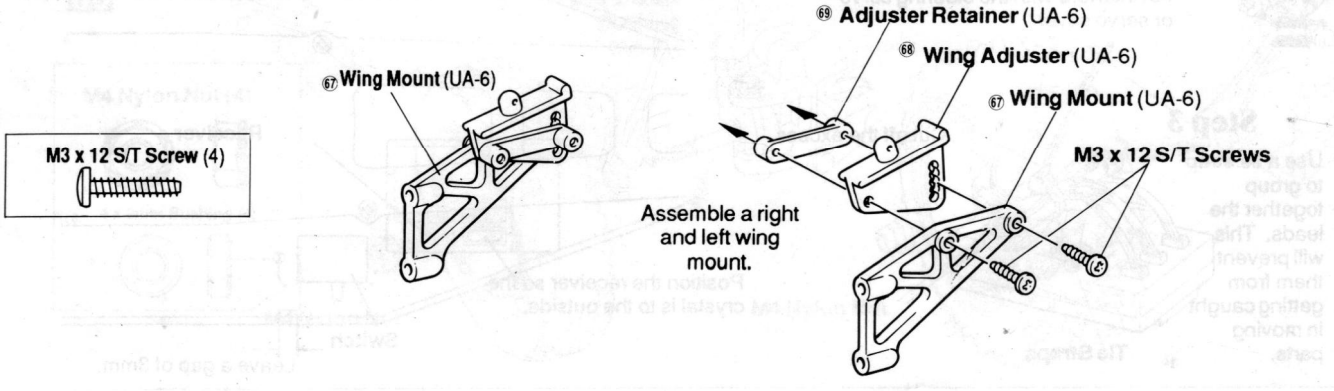
29 GEAR COVER INSTALLATION



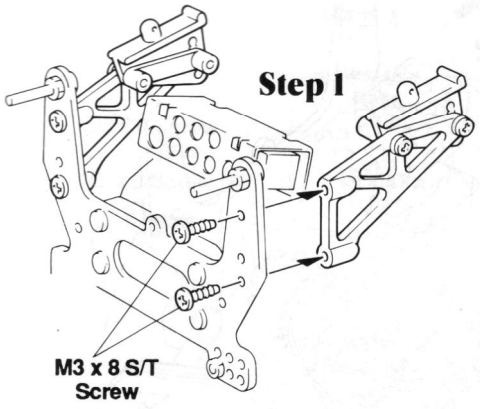
30 FRONT SHOCK INSTALLATION

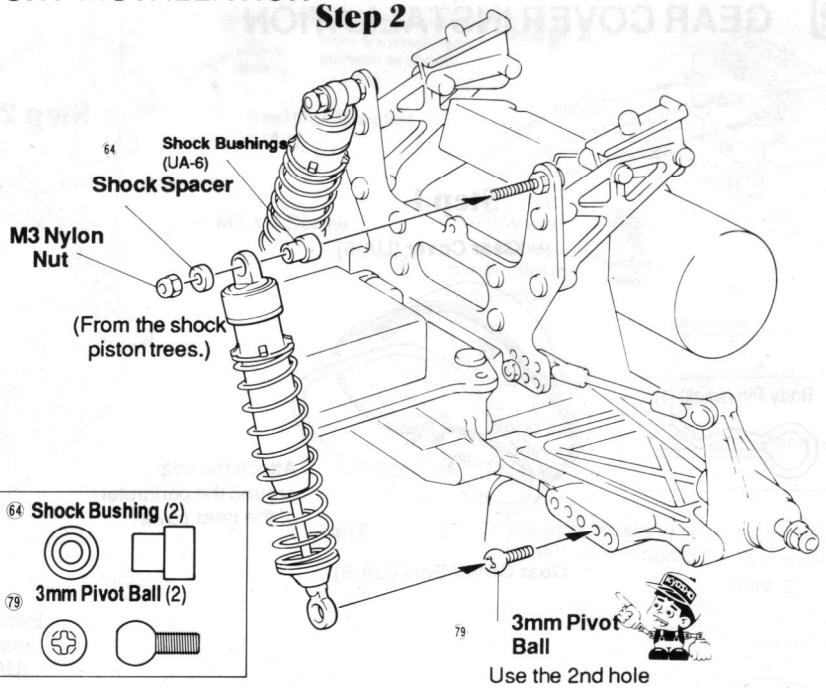


31 WING MOUNT ASSEMBLY



32 REAR SHOCK/WING MOUNT INSTALLATION





M3 x 8 S/T Screw

M3 Nylon Nuts (2)

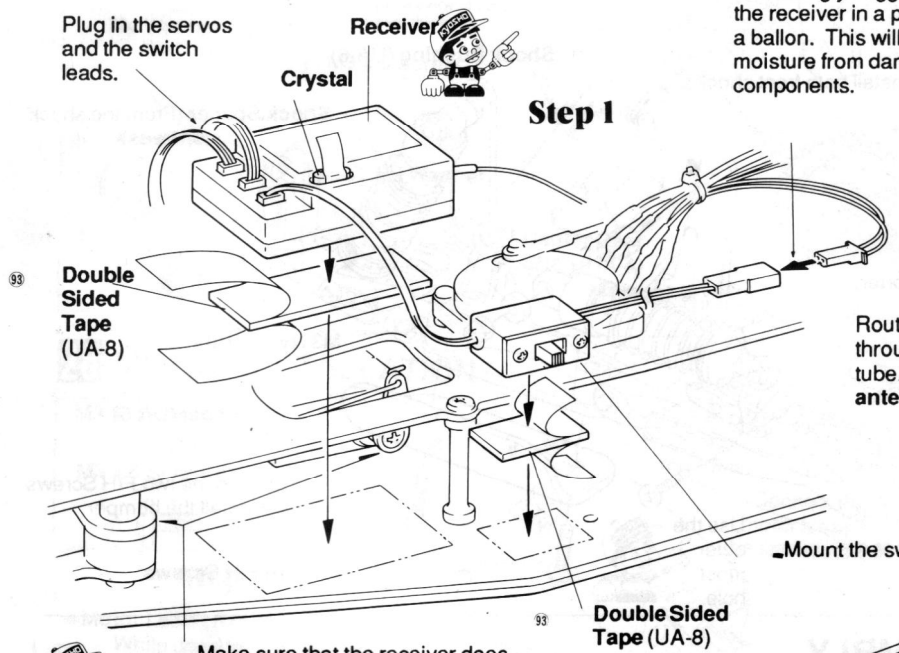
(35) Shock Spacer (2)

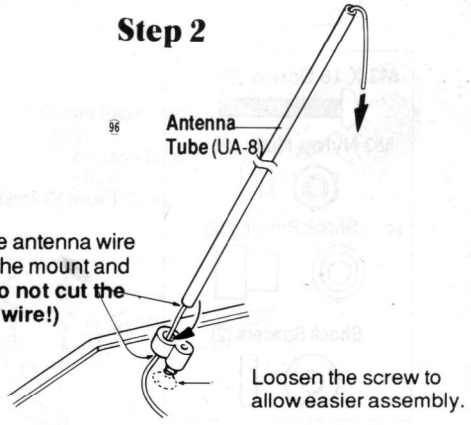
(64) Shock Bushing (2)

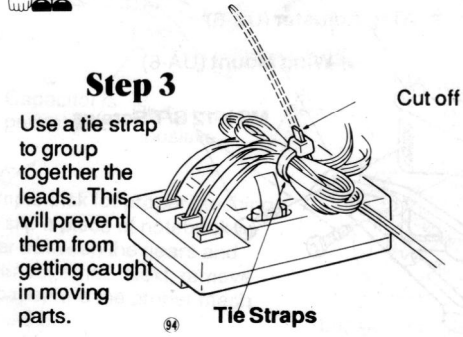
(79) 3mm Pivot Ball (2)

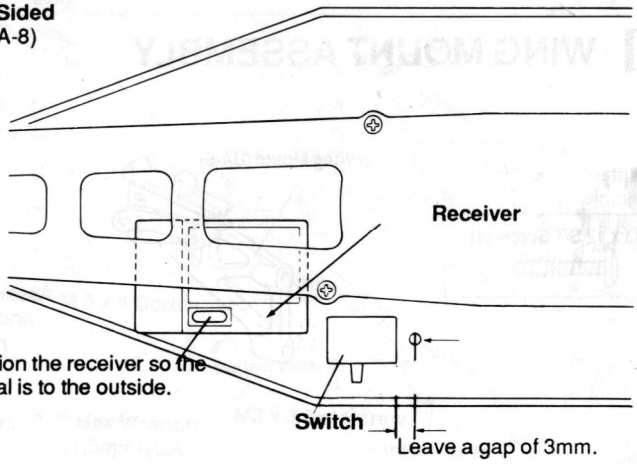
33 RECEIVER/SWITCH INSTALLATION

We strongly suggest that you wrap the receiver in a plastic bag or inside a ballon. This will prevent any moisture from damaging the components.







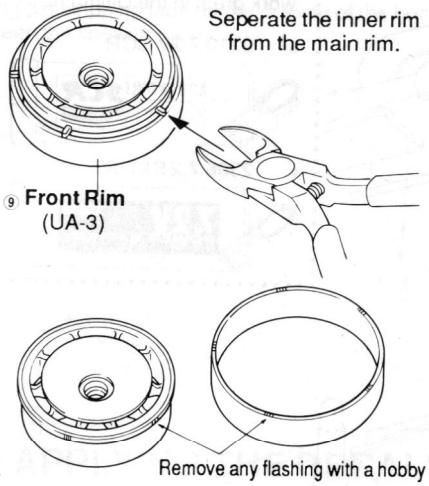


34 TIRE AND WHEEL ASSEMBLY

(FRONT)

Step 1

Seperate the inner rim from the main rim.

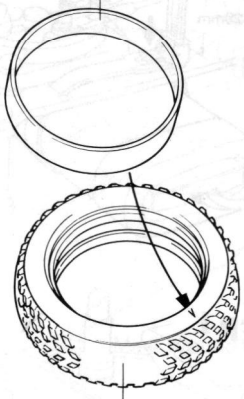


⑨ Front Rim (UA-3)

Remove any flashing with a hobby knife

Step 2

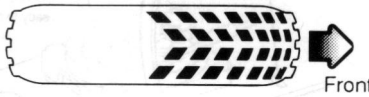
Inner Rim



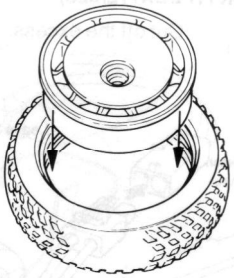
⑩⑨ Front Tire

Step 3

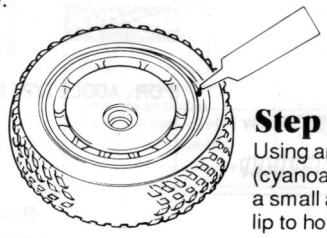
When assembling the second wheel, make sure that the threads are mounted in the opposite direction, so when the wheels are mounted the tread pattern will be the same.



Front



Insert the inner rim into the tire.

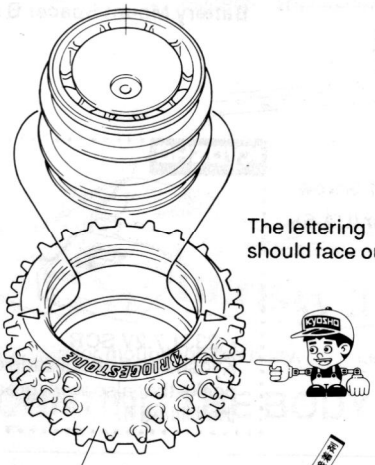


Step 4

Using an instant type (cyanoacrylate) glue, apply a small amount inside the lip to hold the tire in place.

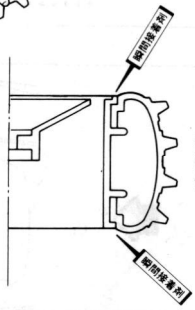
(BACK)

⑩ Rear Rim (UA-3)

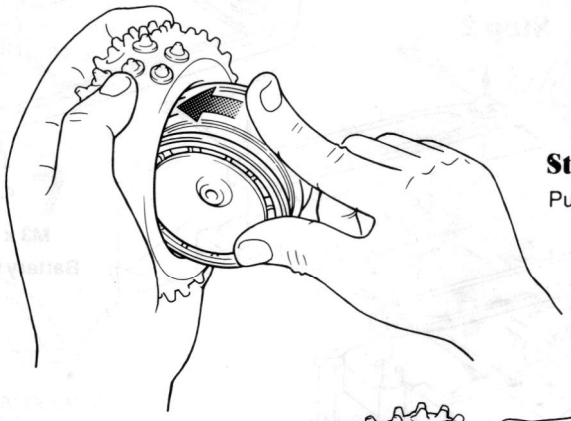


The lettering should face out.

⑩ Rear Tire

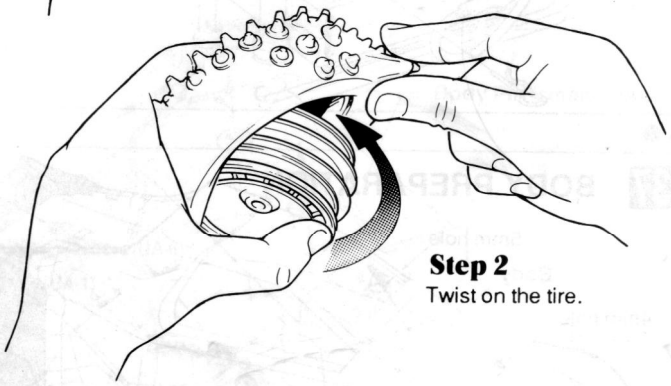


Again, use an instant glue to hole the tire in place.



Step 1

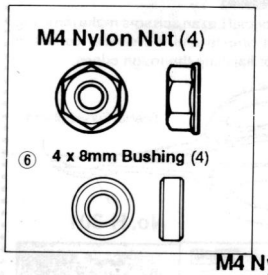
Push in the rim sideways.



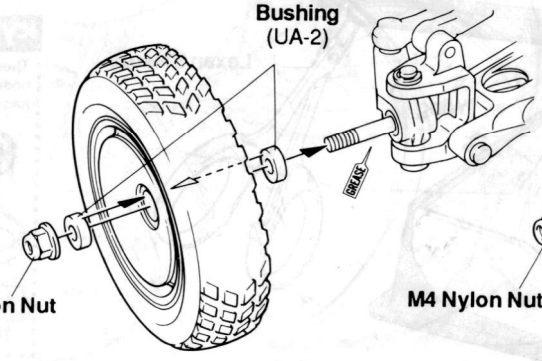
Step 2

Twist on the tire.

35 WHEEL INSTALLATION

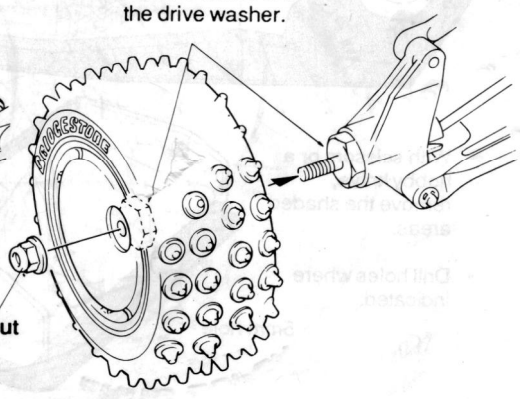


⑥ 4 x 8mm Bushing (UA-2)



M4 Nylon Nut

Install the wheel onto the drive washer.



M4 Nylon Nut

36 BATTERY INSTALLATION

(FOR STICK TYPE BATTERIES)

Step 1

⑮ **Battery Strap** (UA-8)

Route through the slots.

Connect when ready to run.

Cut off the excess.

Leave 20mm.

Step 2

Press down to release the strap.

KYOSHO

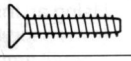
Kyosho offers a wide variety of stick type batteries which will work great in the Ultima II.

- **2310 7.2V SCR**

- **2306 7.2 SPORT**

(FOR SADDLE TYPE BATTERIES)

M3 x 12 S/T Screw (4)



Step 1

Body Pins (small) (UA-1) ⑰

⑫ **Battery Mount** (UA-6)

⑭ **Battery Mount Spacer** (B) (UA-6)

⑬ **Battery Mount Spacer B** (A) (UA-6)

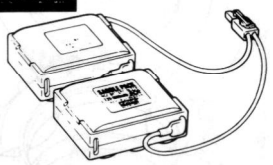
Step 2

Connect when ready to race.

M3 x 12 S/T Screw

⑪ **Battery Holder** (UA-6)

KYOSHO



- **2331 7.2V SCR**

Kyosho also offers saddle packs that also work great in the Ultima II.

37 BODY PREPARATION

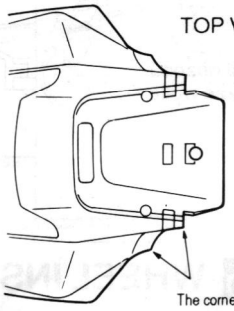
⑪ **Body**

5mm hole

4mm hole

5mm hole

TOP VIEW



The corners should look like this.

Lexan Sissors

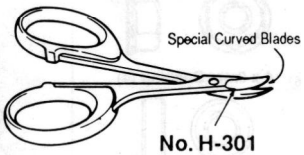
⑬ **Wing**

5mm hole

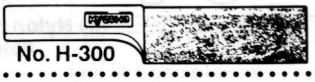
- With scissors or a hobby knife, remove the shaded areas.
- Drill holes where indicated.

KYOSHO

These special Lexan scissors make trimming bodies a breeze and the sander comes in handy for finishing the rough edges.



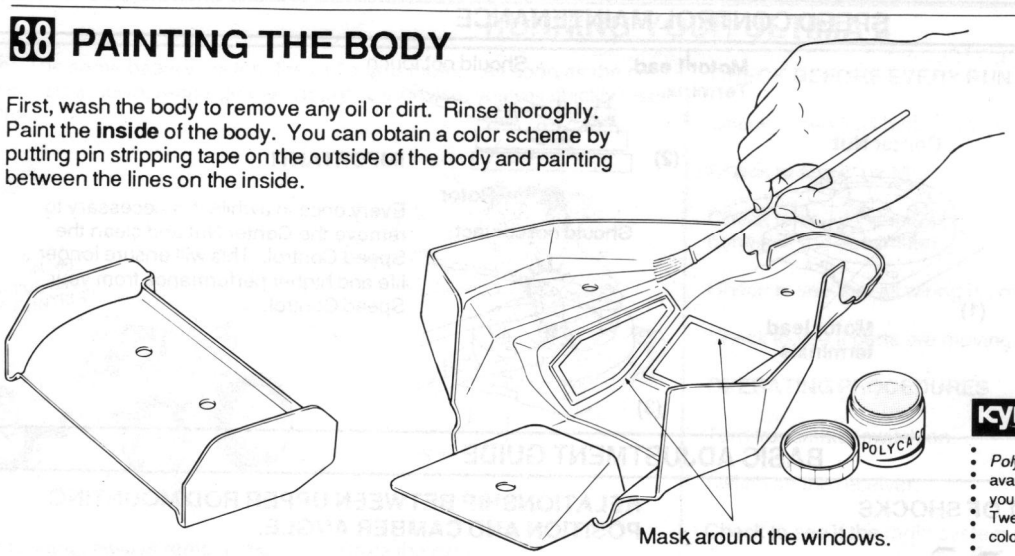
No. H-301



No. H-300

38 PAINTING THE BODY

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 putting pin stripping tape on the outside of the body and painting between the lines on the inside.



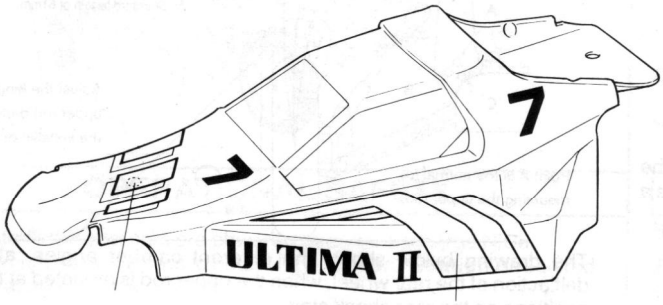
Mask around the windows.

KYOSHO

Polyca Color Paint is available for painting your Lexan bodies. Twelve great looking colors are available.

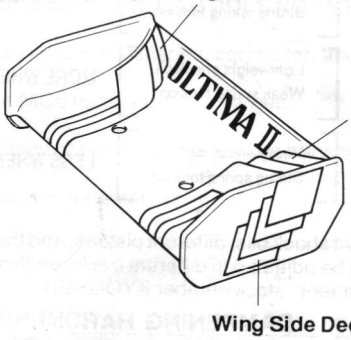
39 APPLYING THE DECALS

Cut out the decals as close to the lines as possible. You can use the box lid for the placement of the decals on the body.



Cut a hole for mounthing the body.

Left Body Decal

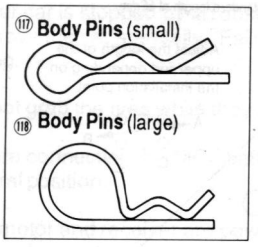


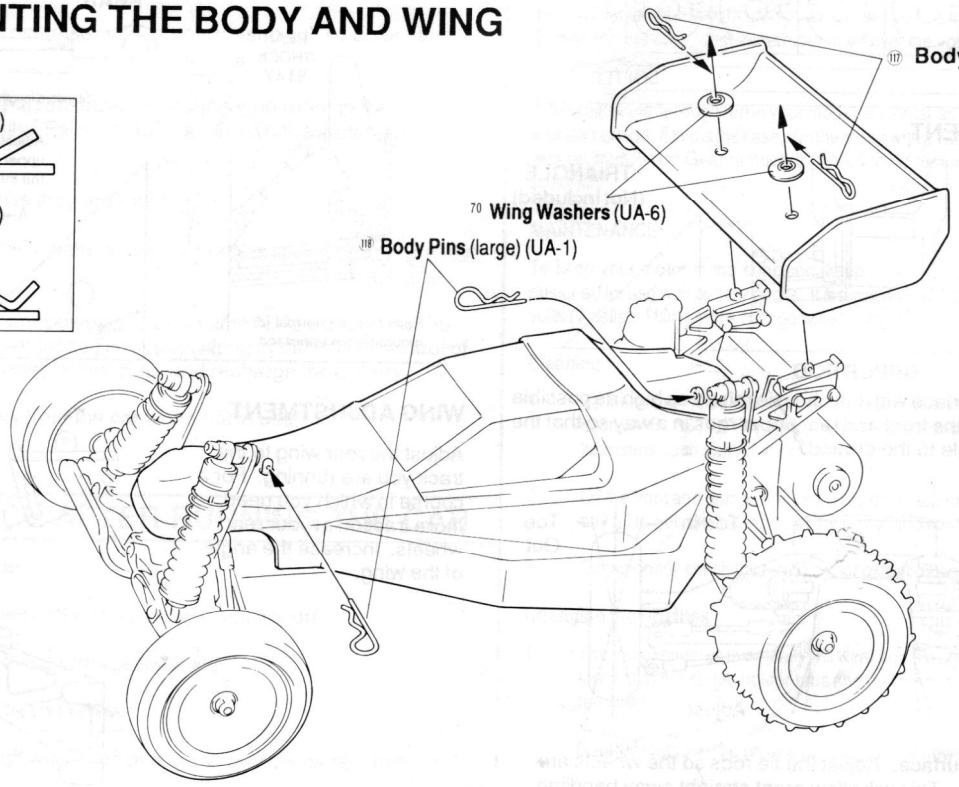
Right Wing Decal

Left Wing Decal

Wing Side Decal

40 MOUNTING THE BODY AND WING

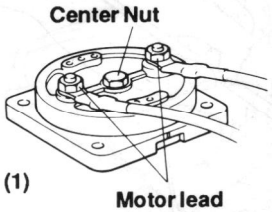


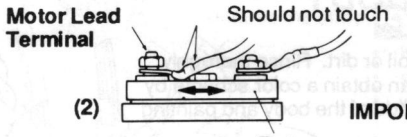


SPEED CONTROL MAINTENANCE

Check the following points before running the 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.

BASIC ADJUSTMENT GUIDE

ADJUSTMENT OF SHOCKS

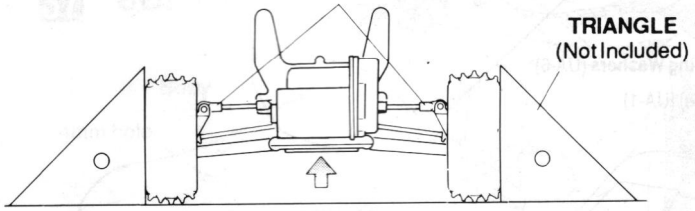
FRONT	Lightweight shock oil Weak spring tension	SHARP STEERING RESPONSE
FRONT	Heavy shock oil Strong spring tension	SLOW STEERING RESPONSE
REAR	Lightweight shock oil Weak spring tension	MORE WHEEL TRACTION
REAR	Heavy shock oil Strong spring tension	LESS WHEEL TRACTION

By using different shock oils, different pistons, and the spring spacer, the dampening can be adjusted to different track conditions. Kyosho sells a shock oil assortment: stock number KYOC5681.

DAMPENING HARDNESS

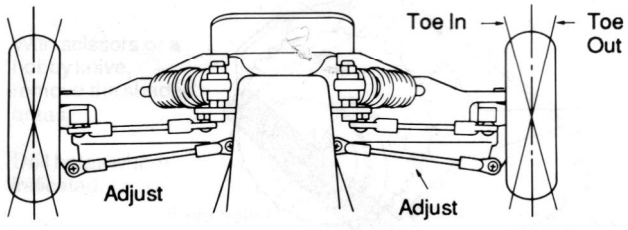
OIL	YELLOW	GREEN	YELLOW	RED	GREEN	RED
PISTON						
HARDNESS	← SOFTER					

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.

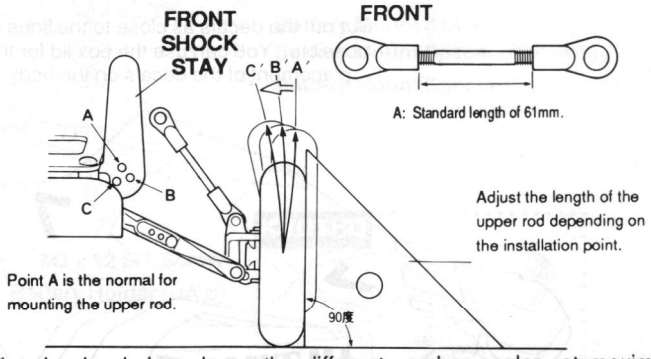
TOE ADJUSTMENT



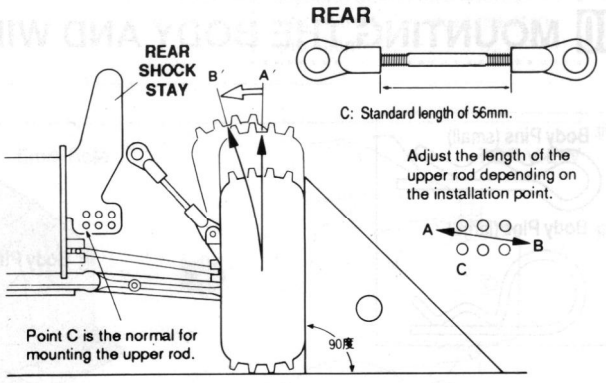
Place the car on a flat surface. Adjust the tie rods so the wheels are slightly (1° or 2°) toed in. This will allow great straight away handling.

RELATIONSHIP BETWEEN UPPER ROD MOUNTING POSITION AND CAMBER ANGLE.

The drawing below shows the different camber angles, at maximum deflection of the front wheel, when the upper rod is mounted at the different positions on the front shock stay.

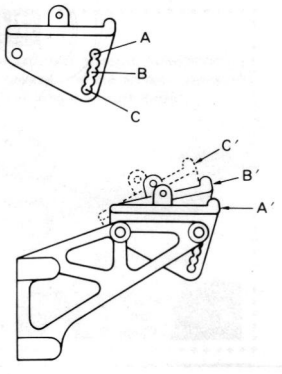


The drawing below shows the different camber angles, at maximum delflection of the rear wheel, when the upper rod is mounted at the different positions on the rear shock stay.



WING ADJUSTMENT

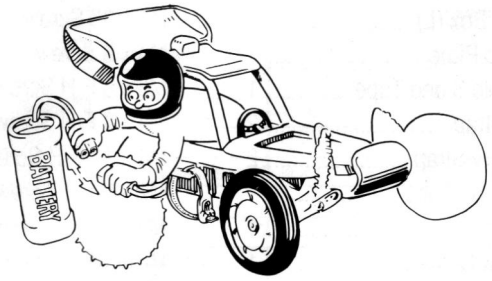
Adjust the rear wing to the track you are running. For a course in which you need more traction at your rear wheels. Increase the angle of the wing.



RUNNING YOUR ULTIMA II

Note: 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.



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.

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 looses 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.

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.

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 SHOOTHING IF THE CAR DOES NOT START

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

Check to see if the NiCd battery is fully charged.

Check to see 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(Pinion Gear removed). 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 suppled 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 contaminates.

Changing the Brushes

1. The motor brushes eventually will wear out. To replace them, slide the brush springs forward at the spring holder tabs and pull them back so that the brushes can be removed.
2. Carefully remove the brushes and install the new ones.
3. You will now have to break-in the motor again to allow the brushes to seat.

PARTS LIST

① Rear Shaft (B) 2
② Motor Plate 1
③ 5.8mm Ball 2
④ Front Shock Stay 1
⑤ Rear Shock Stay 1
⑥ 4 x 8mm Bushing 4
⑦ 5 x 10mm Bushing 6
⑧ 10 x 14mm Bushing 2
⑨ Front Rim 2
⑩ Rear Rim 2
⑪ Joint 2
⑫ Rear Wheel Shaft 2
⑬ Drive Washer 2
⑭ Bevel Gear (A) 2
⑮ Bevel Gear (B) 2
⑯ Bevel Gear Shaft 1
⑰ Pinion Gear 1
⑱ Swing Shafts 2
⑲ Center Gear Shaft 1
⑳ Final Pinion Gear 1
㉑ Counter Gear 1
㉒ Main Gear 1
㉓ Diff. Case 1
㉔ Center Gear 1
㉕ Front Wheel Shaft 2
㉖ Counter Gear Shaft 1
㉗ 2 x 11mm Pin 3
㉘ Servo Saver Guides 2
㉙ Plate Post 2
㉚ Bushing Collar 2
㉛ 4 x 8mm Bushing (L) 1
㉜ O-Ring 1
㉝ Shock Shaft (S) 2
㉞ Shock Shaft (L) 2
㉟ Shock Piston Tree 4
㊱ Diaphram 4
㊲ Shock Spring (F) 2
㊳ Shock Spring (R) 2
㊴ Shock Case (F) 2
㊵ Shock Case (R) 2
㊶ Shock Cap 4
㊷ Spring Retainer 4
㊸ Spring Spacer 4
㊹ Cap Retainer 4
㊺ Shock End 4
㊻ E-Ring (E-2.5) 10
㊼ Front Hub 2
㊽ Rear Hub 2
㊾ Knuckle Arm (R) 1
㊿ Knuckle Arm (L) 1
(51) Front Bulk Head 1
(52) Rear Axle Stopper 1
(53) Rear Bulk Head 1
(54) Gear Cover 1
(55) Front Sus. Arms 2
(56) Rear Sus. Arms 2
(57) Servo Saver (A) 1
(58) Servo Saver (B) 1
(59) Servo Saver (C) 1
(60) Servo Saver (D) 1
(61) Servo Saver Collar 2
(62) Gear Box Hatch 1
(63) Servo Mounts 4
(64) Shock Bushing 4
(65) Antenna Mount 1
(66) Front Body Mount 1
(67) Wing Mount 2
(68) Wing Adjuster 2
(69) Adjuster Retainer 2
(70) Wing Washer 4
(71) Battery Holder 2
(72) Battery Mount 4
(73) Battery Mount Spacer (A) 4
(74) Battery Mount Spacer (B) 4
(75) Ball End (LG) 12
(76) Ball End (SM) 2
(77) Ball Nut 1
(78) 2.6mm Pivot Ball 6
(79) 3mm Pivot Ball 8
(80) Rear Shaft (A) 2
(81) Front Shaft (A) 2
(82) Front Shaft (B) 2
(83) King Pin 2
(84) Center Rod 1
(85) Speed Control Rod 1
(86) Steering Control Rod 1
(87) Upper Rod 4
(88) Tie Rod 2
(89) 4.8mm Ball 1
(90) Gear Box (R) 1
(91) Gear Box (L) 1
(92) Radio Plate 1
(93) Double Sided Tape 1
(94) Tie Strap 2
(95) Battery Strap 2
(96) Antenna Tube 1
(97) Shock Oil 1
(98) Screw Cement 1
(99) Silicone Grease 1
(100) 4-Way Wrench 1
(101) Gear Cover Seal 1
(102) Speed Control 1
(103) Resistor 1
(104) Resistor Heatsink 1
(105) Resistor Base 1
(106) Resistor Bracket 1
(107) Motor 1
(108) Motor Leads 1
(109) Front Tire 2
(110) Rear Tire 2
(111) Body 1
(112) Chassis 1
(113) Wing 1
(114) Decal Sheet 1
(115) E-Ring (E-3) 3
(116) E-Ring (E-4) 2
(117) Body Pin (small) 7
(118) Body Pin (large) 2
(119) Hex Wrench (1.5) 1
(120) Hex Wrench (2) 1
(121) Bumper 1
M2 x 4 Screw 1
M3 x 16 Screw 4
M3 x 33 Screw 3
M2.6 x 6 Screw 1
M3 x 6 Screw 10
M3 x 18 Screw 4
M3 x 35 Screw 1
M4 x 8 Screw 4
M3 x 6 F/H Screw 4
M4 x 8 F/H Screw 8
M4 x 12 F/H Screw 4
M2 x 8 S/T Screw 1
M2 x 10 S/T Screw 4
M3 x 18 S/T Screw 1
M2.6 x 12 S/T Screw 4
M3 x 8 S/T Screw 18
M3 x 10 F/H, S/T Screw 3
M3 x 10 F/H, S/T Screw 2
M3 x 15 S/T Screw 5
M3 x 3 Set Screw 1
M4 x 4 Set Screw 2
M2.6 Nut 8
M3 Nut 10
M3 Nylon Nut 4
M4 Nylon Nut 4
M3 Washer 1
M4 Washer 2
M5 Washer 2

MEMO

PARTS LIST

You can purchase replacement and optional parts for your kit. All of the parts identified by key numbers (see page 26 for complete list) are usually not available singularly, but we offer these parts in convenient parts "packs" which can be purchased sparately. 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#19) ask your dealer for Kyosho Parts Pack UM-05 (Gear Shaft Set).

STOCK #	Part #	DESCRIPTION	CONTAINS
KYOC4182	UM-01	Gear Set	⑳ ㉑ ㉒ ㉓ ㉔ × 1
KYOC2747	UM-02	Bushing Set	㉛ × 1 ⑧ ㉚ × 2 ⑦ × 6
KYOC4184	UM-05	Gear Shaft Set	⑲ ㉖ × 1 ㉗ × 2
KYOC6078	UM-07	Susp. Shaft Set	① ㊵ ㊶ ㊷ × 2
KYOC3737	UM-08	Shaft Set-Frt.	㉕ ㉝ × 2
KYOC5387	UM-09	Rod Set	㉞ ㉟ ㊱ × 1 ㊻ × 2
KYOC6069	UM-13	Susp. Arm Set	㉟ ㊱ × 2
KYOC5653	UM-14	Servo Saver	㊲ ㊳ ㊴ ㊵ ㊷ ㊺ ㊻ × 1 ㊶ × 2 ㊸ ㊹ × 4
KYOC2677	UM-21	Bumper	㉑ × 1
KYOC2486	UM-34	Body	⑪ × 1
KYOC6319	UM-39	Wheels-Frt.	⑨ × 2
KYOC5639	UM-42	Servo Saver Set	㉘ ㉙ × 2
KYOC6301	UM-49	Upright Set	㊾ ㊿ × 1 ㊼ ㊽ × 2
KYOC2626	UM-50	Bulk Head Set	㉛ ㉜ ㉝ ㉞ ⑩ × 1
KYOC4622	UM-51	Motor Plate	② × 1
KYOC4034	UM-52	Gear Box	㊿ ㊾ × 1
KYOC5769	UM-63	Shock Stay Set	④ ⑤ × 1
KYOC6297	UM-65	Upper Plate Set	㉒ × 1
KYOC4523	UM-66	Kelron Chassis	㉒ × 1
KYOC3259	UM-67	Decal	⑭ × 1
KYOC5472	UM-68	Screw Set	
KYOC5372	UM-69	Resistor Stay	⑯ × 1
K YOC2258	UMW-01	Wing Stay Set	㊼ ㊽ ㊾ × 2 ㊿ × 4
KYOC4322	OT-005	Joints	⑪ × 2
KYOC6122	OT-006	Swing Shafts	⑱ × 2
KYOC5658	OT-018	Shafts-Rear	⑫ × 2
KYOC3332	OT-019	Drive Washer	⑬ × 4
KYOC4782	OT-024	Pinion Gear (15T)	⑰ × 1
KYOC3297	OT-028	Diff. Gear Set	⑯ × 2 ⑭ ⑮ × 4
KYOC4707	OT-029	O-Ring	㉜ × 10
KYOC4823	OT-031	Pivot Ball-3mm	㊾ × 10
KYOC2167	OT-032	Balls-5.8mm	③ × 10
KYOC2242	OT-033	Ball Rcptl.-2.6mm	⑰ × 10
KYOC6292	OT-035	Upper Rod Set	㊻ ㊼ × 4 ㊺ × 8
KYOC4822	OT-036	Pivot Ball 2.6mm	㊽ × 10
KYOC5732	OT-038	Silicone Grease	㊾ × 1
KYOC3392	OT-039	E-Ring (E-2.5)	㊻ × 10
KYOC6246	OT-066	Tires-Low Pro	⑩ × 2
KYOC6363	OT-107	Wing	⑬ × 1
KYOC4485	OT-129	Linkage Set	㊻ × 2 ㊾ × 1
KYOC4827	OTW-09	Plastic Parts	㊶ × 2 ㊷ ㊸ ㊹ × 4
KYOC5721	FD-37	Shocks-Front	㉝ ㉟ ㊱ ㊲ ㊴ ㊶ ㊷ ㊸ ㊹ ㊺ × 2 ㊻ × 4
KYOC5722	FD-38	Shocks-Rear	㉞ ㉟ ㊱ ㊳ ㊵ ㊶ ㊷ ㊸ ㊹ ㊺ × 2 ㊻ × 4
KYOC6253	W-5071	Tires Front	㊾ × 2
KYOC5823	1819	Resistor-15W	㊸ ㊹ ㊺ × 1
KYOC5785	1831	Speed Control	㊷ × 1
KYOC6141	1840	Double Sided Tape	㊸ × 1
KYOC5451	1878	Screw Cement	㊽
KYOC2517	1889	Body Pins (Large)	⑩ × 5
KYOC2701	1914	4 x 8mm Bushing	⑥ × 10
KYOC6395	1943	Wrench	㊿ × 1
KYOC6222	SC-089	Tie Rod Set	㊽ × 2 ㊺ ㊽ × 4

STOCK #	Part #	DESCRIPTION	CONTAINS
KYOC2520	EP-22	Body Pins (small)	㊼ × 5
KYOC6347	MA-17	Wheel Set	⑩ × 4
KYOC6025	EF-037	Straps (small)	㊹ × 6
KYOC6020	EF-039	Battery Straps	㊺ × 6
KYOC2055	SD-79	Antenna Tube	㊻ × 5
KYOC3395	CB-072	E-Ring (E-3)	㊺ × 4
KYOC3400	KC-20	E-Ring (E-4)	㊻ × 4
KYOC4586	BB-26	Motor Cord Stock 05 Motor	㊿ 1

OPTIONAL PARTS

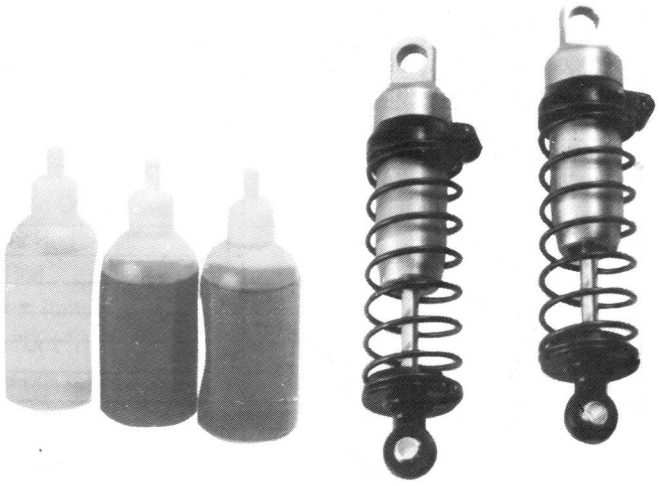
KYOC4767	OT-050	Pinion Gear (13T)	Ratio 9.5 : 1
KYOC4777	OT-051	Pinion Gear (14T)	Ratio 8.8 : 1
KYOC4787	OT-052	Pinion Gear (16T)	Ratio 7.7 : 1
KYOC4792	OT-053	Pinion Gear (17T)	Ratio 7.3 : 1
KYOC4797	UM-23	Pinion Gear (18T)	Ratio 6.9 : 1
KYOC4802	UM-24	Pinion Gear (19T)	Ratio 6.5 : 1
KYOC4807	UM-25	Pinion Gear (20T)	Ratio 6.2 : 1
KYOC5694	UM-26	Shock Stay-spl	
KYOC4604	UM-28	Motor Guard	
KYOC5944	UM-29	Stabilizer Set	
KYOC3830	SC-026	Front Tires	
KYOC3882	SC-090	Front Tires	
KYOC4708	1883	Oil-Frontier	
KYOC2197	1901	5 x 10mm Bearings (2)	
KYOC2207	1903	4 x 8mm Bearings (2)	
KYOC2217	1911	8 x 14mm Bearings (2)	
KYOC5681	1951	Oil Set (S, M, H)	Shock Oil
KYOC5736	1953	Shock Oil (S)	
KYOC5737	1954	Shock Oil (M)	〃
KYOC5738	1955	Shock Oil (H)	〃
KYOC2176	W-0109	Ball Differential	
KYOC5897	W-0110	Spur Gear	
KYOC3089	W-0111	Counter Gear	
KYOC5692	W-5001	Gold Shocks (S)	
KYOC5693	W-5002	Gold Shocks (L)	〃
KYOC5703	W-5003	Platinum Shocks (S)	
KYOC5704	W-5004	Platinum Shocks (L)	〃
KYOC5388	W-5005	Rod Set-Adjustable	
KYOC6236	W-5031	Tires-Hard	Low-Pro Rears
KYOC6237	W-5032	Tires-Soft	Low-Pro Rears
KYOC6127	W-5061	Swing Shafts	Universal (2)
KYOC6254	W-5072	Tires Block	Front-Hard
KYOC6223	W-5073	Tires-Pin Spike	Front-Soft
KYOC6224	W-5074	Tires-Pin Spike	Front-Hard
KYOC6227	W-5077	Tires-Pin Spike	Low Profile
KYOC6228	W-5078	Tires-Block	Low Profile
See Your Local Hobby Dealer For Listing	W-5085 thru W-5093	(15T - 23T) Pinion Gears	Hardened Performance Gears

Ball Bearings

KYOC2194 1974 Complete Bearing Set

The addition of ball bearings to your kit will reduce friction and wear resulting in faster speeds and longer running times.

Gold Shocks and Shock Oils



KYOC5692	W-5001	Gold Shocks-Short (2)
KYOC5693	W-5002	Gold Shocks-Long (2)
KYOC5681	1951	Shock Oil Set (L-M-H)

Kyosho Gold Shocks will easily install on your Ultima II and will greatly increase your handling characteristics. The Shock Oil Set will make the "Golds" even more versatile by allowing you to "tune" the car for any track.

The Super Hobby

KYOSHO®
THE FINEST RADIO CONTROL MODELS

PRINTED IN JAPAN

Entire Contents © 1990, HOBBICO®, INC.