RADIO CONTROLLED ELECTRIC POWERED SPECIAL RACING BUGGY

OFF-ROAD RACER

# ULTIMA PRO

- EXTENDED LENGTH FRONT/REAR SUSPENSION ARMS EVEN LONGER TRAVEL AND IMPROVED ROADHOLDING ON ALL SURFACES.
- TOP-QUALITY METAL-BODIED PRESSURE OIL-FILLED SHOCK ABSORBERS.
- ANTI-SWAY BARS FRONT AND REAR. FULL SET OF 14 BALL BEARINGS.
- QUICK ADJUST LINKAGE FOR TOE-IN AND CAMBER (F/R9.
- TOP-QUALITY RUNNING GEAR: ADJUSTABLE BALL-TYPE DIFFERENTIAL AND FINE-PITCH GEARS.
- SUPER-LIGHT FRP PLATE-TYPE CHASSIS FOR STIFFNESS AND STRENGTH.
- BATTERY (NOT INCLUDED): 7.2V/8.4V (1200mAh/1700mAh)
- MOTOR (NOT INCLUDED): MEGA, LE MANS 240 SERIES.
- RADIO (NOT INCLUDED): 2CHANNEL (AMP SPEC.)



## BEFORE YOU BEGIN ASSEMBLY!

Thank you for purchasing the Kyosho's R/C "EP Off-Road Car Ultima Pro".

In order to keep your Ultima Pro in the tip top condition to enjoy the most pleasure from the R/C world, you should throughly read through this instruction manual and the operation instruction of the radio control units to keep the correct way of assembling, and handling.

#### **《KIT FUTURES》**

- Extended-length front/rear suspension arms even longer travel and improved roadholding on all surfaces.
- Super-light FRP plate-type chassis for stiffness and strength.
- This kit was made to use the 2 channel radio controller and electrical speed control.

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#### BEFORE ASSEMBLY

O Read the instruction carefully.

You can assemble the kit more easily if you have grasped the general idea of steps and structure beforehand by reading it through to the end.

O Check the parts in the kits.

Check to see if all the parts are correctry bagged Instruction as the are listed in the "List of Bagged Parts" (page 4,5).

Your through understanding of the assembly will enable



Oh.

I see.

Куртно

Check the components in the kit prior to your startings of the assembly,

Any claims for replacements or refunds for the model in the process of assembly will not be accepted.

O Learn the marks described in the instruction.

It will prevent the screws and nuts get loosen by vibration while running.

It will reduce friction are assure smooth movement,



is required.

O Be well aware of the different types of screws,

1 The difference between the TP screw (short form of self-tapping screw) and the ordinaly screw is ...

TP Screw Ordinary Screw Some of them

2 The kinds of screws which will be used in this instruction,

pointed tips,

Finer Thread

Check up

Round Head Bind Screw Truss Screw Screw Screw Set Screw

8

O 0

No.2310 7.2V - 1200

There are two kinds of thread, finer and coarser ones,

O Pick up the correct parts and screw. Compare the shape and size of small parts, such as screws, nuts, and washers.

O Be sure about the location and direction of parts to install,

Double-Check the location and orientation of parts with the illustration before installation. When neccessary, assemble the parts themselves tentatively before proceeding to the next step.

 Do not tighten the self-tapping screw too tight.

Do not use excessive force when tightening the self-tapping screws, or you may strip the thread in the plastic.

No.2331 7.2V - 1200

It is recommended to stop tightening it when the thread part on the screw goes into the plastic part and you feel some resistance from the tightening.

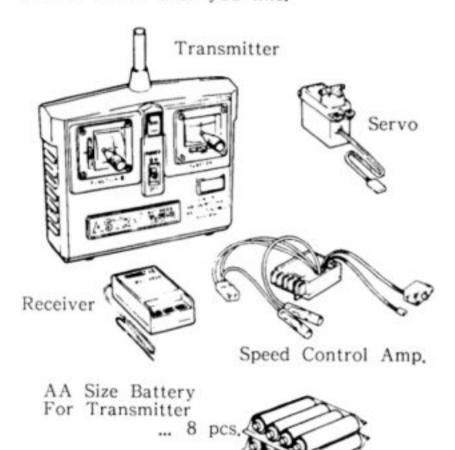
Good Over tighten may strip the thread in the plastic.

SCR Battery (Saddle Pack) Sprint Battery

#### THINGS NEED BESIDES THE KIT

<2 Channel Radio System>

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



<NiCd Battery>
"Ultima Pro" is designed to use a rechargeable 7.2V NiCd Battery pack.

7.2V Sprint Battery and 7.2V Saddle Pack are ideal for the purpose.

<Motor>

The Ultima Pro not come with a motor.

A Le Mans series type motor is recommended for top performance.

No. 1986 Le Mans Speed 240T No. 1926 Le Mans H-240S No. W1011 SPA 240WS No,2481 Le Mans Pro High Speed ( No,2483 Le Mans Pro High Torque

No.2472 Mega Dirt Oval No.2473 Mega Off-Road

< Charger for NiCd Battery>

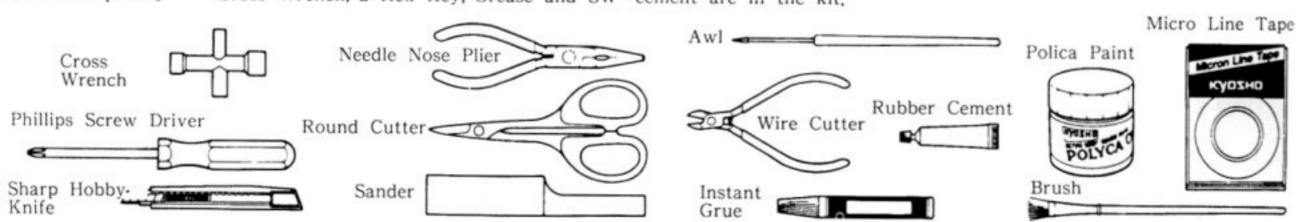
The Kyosho's NiCd battery is high performance.

If it is charged correctly, it will operate for a considerable period of time,

Model	Name	Time	Rate %	Features
No.2326	7,2V Power Charger	15 (min,)	70	For bigginer Built-in timer
No.1849	Multi Charger II	20 (min.)	100	Built in Timer, Ammeter
No.2246	EFT Auto Charger	20~30 (min,)	100	Trickle charging Automatic cut-oof

Use one of the chargers listed which suits your need.

(Tools Required) Cross Wrench, a Hex Key, Grease and SW-cement are in the kit,

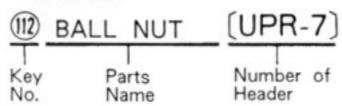


(Do not throw away a bag header)

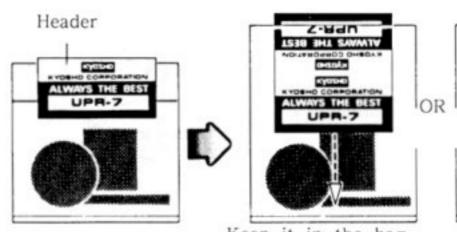
• The header is the only thing to rely upon when looking for a part. Do not discard it until you finish the assembly.

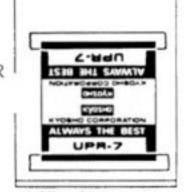
<EXAMPLE>

The header is indicated like this in the instruction.



Bag	Key #	Parts Name	Q'tv	Step
	3	4 ♥ × 8 Bearing	6	23 27
	4	5 \$\phi \times 10 \$	6	469
	5	Center Gear Collar	1	28
	37	Front Sus. Arm	2	113
	38	Rear Sus, Arm	2	9
	40	Gear Box (L)	1	6
	41	* (R)	1	4
	<b>★</b> 42	Stabilizer Link (L)	2	10
	<b>★</b> 43	• (S)	2	12
UPR-2	<b>★</b> 44	Stabilizer Stopper	2	7
100 to	46	Wing Stay	1	36
	47	Gear Cover Seal	1	25
	48	Double Sided Tape	1	30 31 35
	49	Strap (S)	2	30 32
	50	NiCd Strap	2	37
	51	Antenna Pipe	1	81
	52	Shock Oil (Green)	1	<b>E</b>
	53	Screw Locking Compound	1	
	54	Silicon Grease	1	
	109	6.8♥ Ball End	4	0
	56	Rear Wheel	2	26
UPR-3	57	Front Wheel	2	26
	33	Swing Shaft	2	9
	34	Wing Post	2	
	35	Drive Washer	2	20
	36	Rear Wheel Shaft		9
	<b>★</b> 39	Radio Plate (Red)	2	9 mm Spare
	58	Pinion Gear (20T)	8	906 Spare
	59	Center Gear Shaft	1	24
	60		1	23
	61	Counter Gear Shaft	1	4
		2¢ X11 Pin	2	4 Spare x 1
	62	Front Wheel Shaft	2	00
UPR-4		Servo Saver Shaft	2	18
	64	Wing Stopper	2	36
	65	3 ♥ ×40 Adjust Rod	4	0
	66	3 ♦ ×32 →	2	0
	67	3 <b>♦</b> ×50 <b>♦</b>	2	0
	68	5.8 φ Ball (Black)	8	0
	69	O-Ring (P3 · Black)	2	6 23
	70	Motor Guard Collar	2	22
	<b>★</b> 71	Shock Piston	4	_
	74		4	8
	113	5.8¢ Ball (Silver)	10	11 2
		M3x18 Cap Screw	4	7 12
	1	Front Shock Stay	1	02
	2	Rear Shock Stay	1	7
	7	Motor Plate	1	4
	45	Battery Holder Plate	2	322
UPR-5	55	Front Upper Plate	1	20
OF IT O	77	Front Stabilizer	1	14
	78	Rear Stabilizer	1	7
	79	Rear Sus, Shaft	2	9
		Rear Sus, Shaft Stabilizer Ball	2	9





Affix it on the

Rag	Kov #	Parts Name	Q'ty	with tape, Step
Bag	Key #		1	6 Step
		Sponge Cap		
LIDD 6	83	Motor Guard Plate	1	22
UPR-5	84	Servo Saver Spring	1	<b>1</b> 11
	100	Rear Upper Plate	1	20
	104	Servo Mount Plate	1	18
	85	Front Bulk Head	1	12
	86	Rear Axle Stopper	1	9
	87	Rear Bulk Head	1	7
	88	Gear Cover	1	25
	89	Bumper	1	113
	★ 90	Front Hub	2	100
	★ 91	Rear Hub (R)	1	9
	★ 92	Knuckle Arm (L)	1	00
	<b>★</b> 93	→ (R)	1	100
	★ 94	Servo Saver (A)	1	107
	<b>★</b> 95	* (B)	1	107
UPR-6	★ 96	• (C)	1	00
Plastic Part)		* (D)	1	100
	<b>★</b> 98	Servo Saver Collar	2	18
	<b>★</b> 99	Gearbox Hatch	1	8
	<b>★</b> 101	Servo Stay	4	Spare x
	<b>★</b> 102	Shock Collar	4	10 16
1	<b>★</b> 102	Antenna Post	1	
7				18
	<b>★</b> 105	Stopper Post	4	20
	<b>★</b> 106	Stopper Washer (Thiner one)	4	20
	<b>★</b> 107	→ (Thicker one)	4	Don't use,
	<b>★</b> 133	Body Hook	1	20
20	<b>★</b> 134	Rear Hub (L)	1	9
	<b>★</b> 135	Battery Holder	2	20
	★108	5.8♥ Ball End	14	0
	110	Hub Pin	4	9 13
	112	Ball Nut	2	14
	114	6.8 <b>⊅</b> Ball	4	9
UPR-7	115	Front Sus, Shaft	2	13
	116	King Pin	2	100
	117	Steering Rod	1	D
	118	Center Rod	1	00
	119	Motor Guard Joint	1	22
		8 ≠ ×14 Bearing	2	
	<b>0</b> 9	Differential Gear	1	1
120	<b>◎</b> 10	Diff, Shaft (A)	1	
	© 11	* (B)	1	
	© 12	Pressure Plate	2	0
	© 12			This Mark is assembled
No. Section 1	© 13	8 × 10 Collar	1	for ball diff.
UPR-8	_	Torque Keeper M2,6x15 Cap Screw_	-	6
	© 15	Tapered Washer	4	
	© 16	Diff, Ball	10	
	© 17	Thrust Ball	8	
		Thrust Washer	2	
	• 19	Front Shock Shaft	2	· ·
	• 20	Rear *	2	This Mark is assembled
	• 21	Front Shock Case	2	for pressure shock,
to be	• 22	Rear *	2	
continued		-		

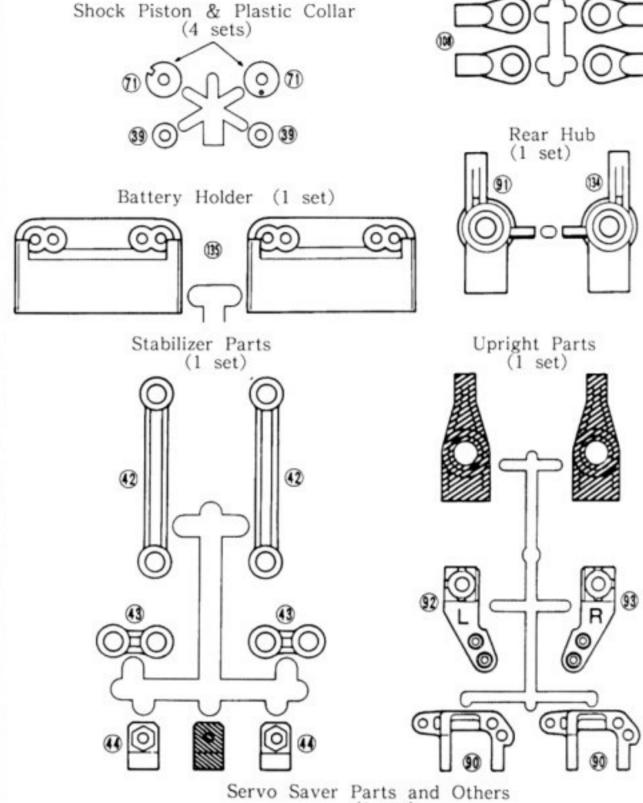
#### LIST OF BAGGED PARTS (2)

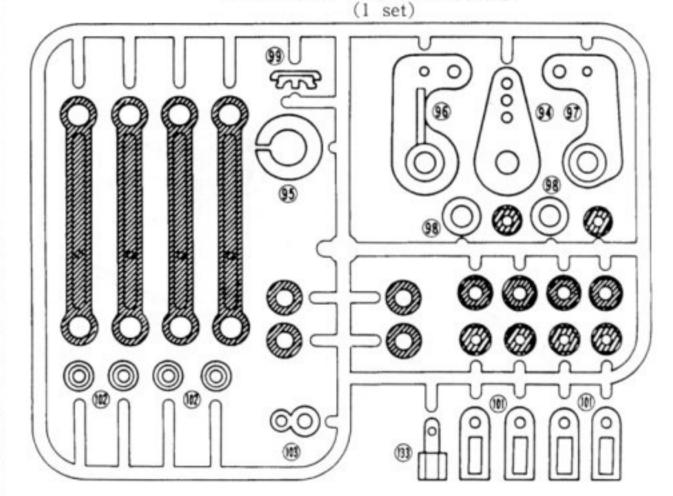
Bag	Key #	Parts Name		Q'ty	Step
	• 24	Rear Shock S	pring	2	
	• 25	Spring Holder		4	This Mark is
	• 26	Shock Cap		4	assembed
	• 27	Spring Stoppe	er	4	for pressure shock.
	• 28	Shock End		4	1
	• 71	Shock Piston		4	1
	• 72	Shock Collar	(White)	4	1
LIDD 0	• 73	*	(Black)	4	2
UPR-8	• 75	O Ring (P3 ·		8	
	• 76	C Ring		4	1
	• 29	E Ring (E2.5	5)	8	1
	6	Motor Guard		1	22
	30	Final Pinion		1	5
	31	Center Gear		1	23
	32	Counter Gear		1	4
	111	Cross Wrench	100	1	
	120	Body		1	33
	121	Wing		1	33
	122	Front Tire		2	26
	123	Rear Tire		2	26
	124	Main Frame		1	8
	125	Decal		1	35
	125	Instruction		1	- EE
	29	E Ring (E2.5	:)	10	9 13
	126		(Black)	3	10
	127	+ (E4)		2	
				_	6 .
	128	Hook Pin		4	25 32 -
	129	Body Pin		5	32 36 -
	130	Hex Key (1.8		1	1 24
	131	* (2m		1	56
65	132	* (2.5		1	7
		Bind Screw		6	
	-	,	M2.6×12	2	
		•	M3X6	9	
UPR-1		*	M 3 × 15	2	
		*	M 3 × 35	1	
		•	M3×45	2	
		Round Head Screw		1	
		Flat Head Screw		6	
		•	мз×6	3	
		*	M3×12	4	
		•	M3×15	4	
		•	M4×8	8	
		*	M 4 × 12	4	
		Truss Screw	M4×8	4	
		TP Bind Screv	M3X8	14	100000000000000000000000000000000000000
		TP Round Head S	7,100 2,100 2,000	1	
		TP Flat Head Scre	w M3x10	6	
		Nut	M2.6 (3 Kinds)	12	
		•	M3	8	
		Nylon Nut	М3	4	
		•	M 4	4	1
		Washer	M2.6 (Black)	-	
		*	M3X8X0.5	2	
		,	M4×10×0.5	_	1
		Shim	Φ8×12×0.2	-	
		Set Screw	M3X3	7	
		oct ocrew		-	-
		-	M3×16	2	-
		Flat Used C	M4X4	1	
		Flat Head Scr		2	

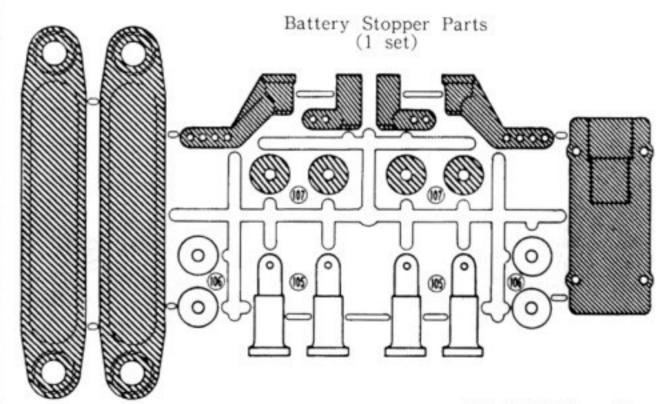
## LAYOUT DRAWING OF PLASTIC PARTS ON RUNNERS

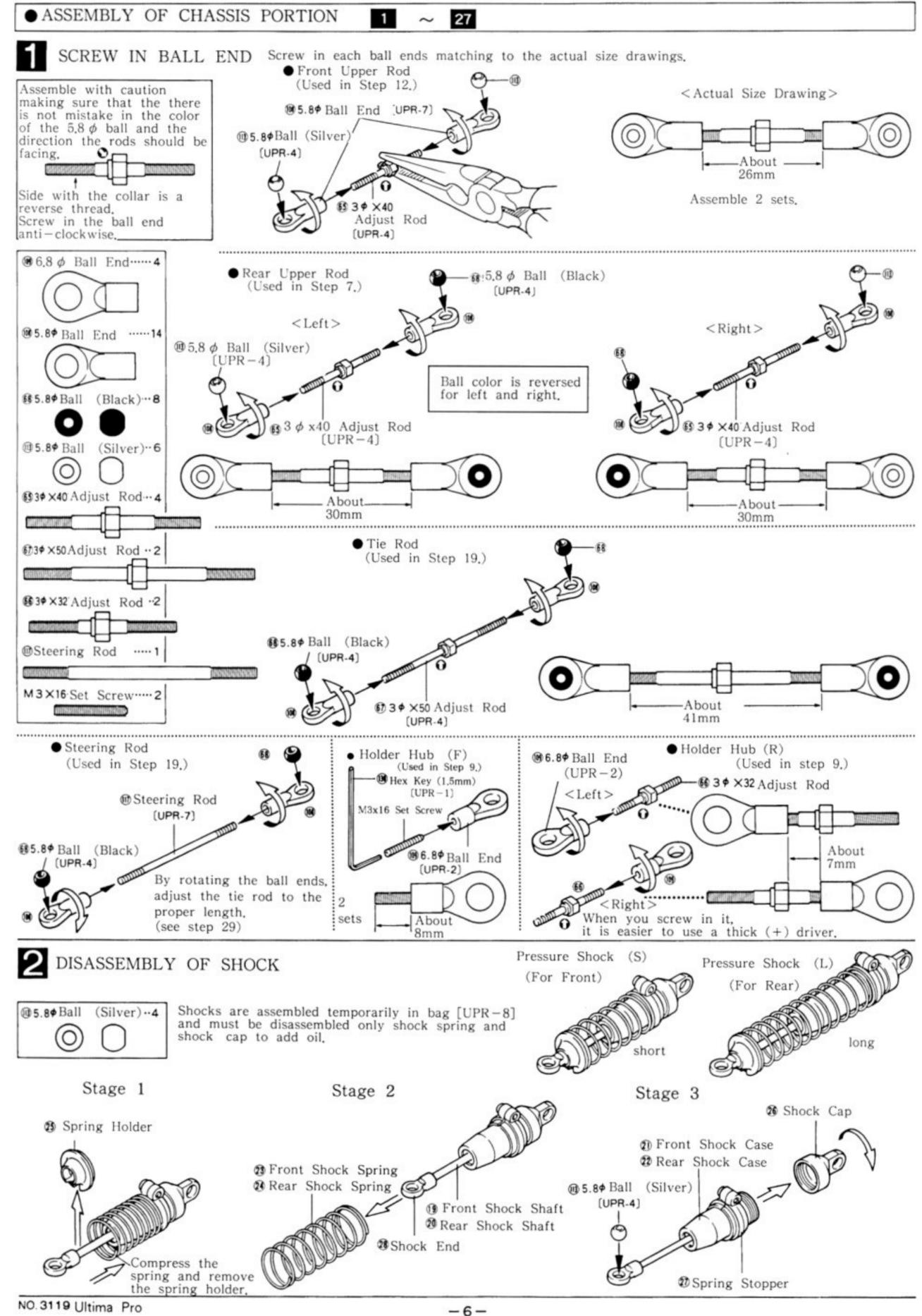
 $5.8 \cdot \varphi$  Ball End (4 sets)

These parts are not used.









## 3 FILLING OF SHOCK

#### Stage 1

Pull down the piston to the bottom and pour oil slowly.

Then move the piston up and down gently to get rid of air bubbles.

#### Stage 2

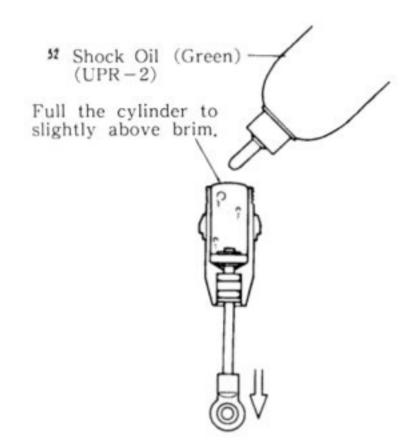
Keep the piston in the lowest position and tight 26 gradualy, then excessive oil will run over.

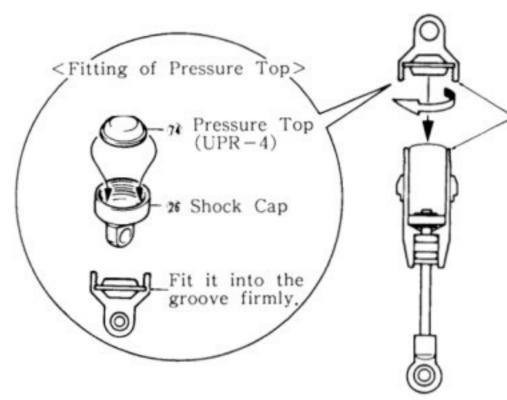
#### Stage 3

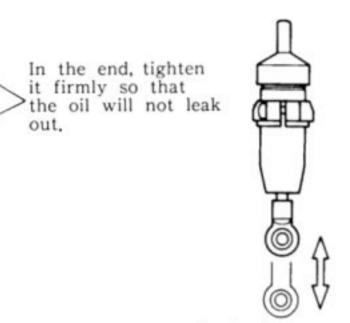
Confirm that it will work smoothly by moving the piston up and down,

It should move

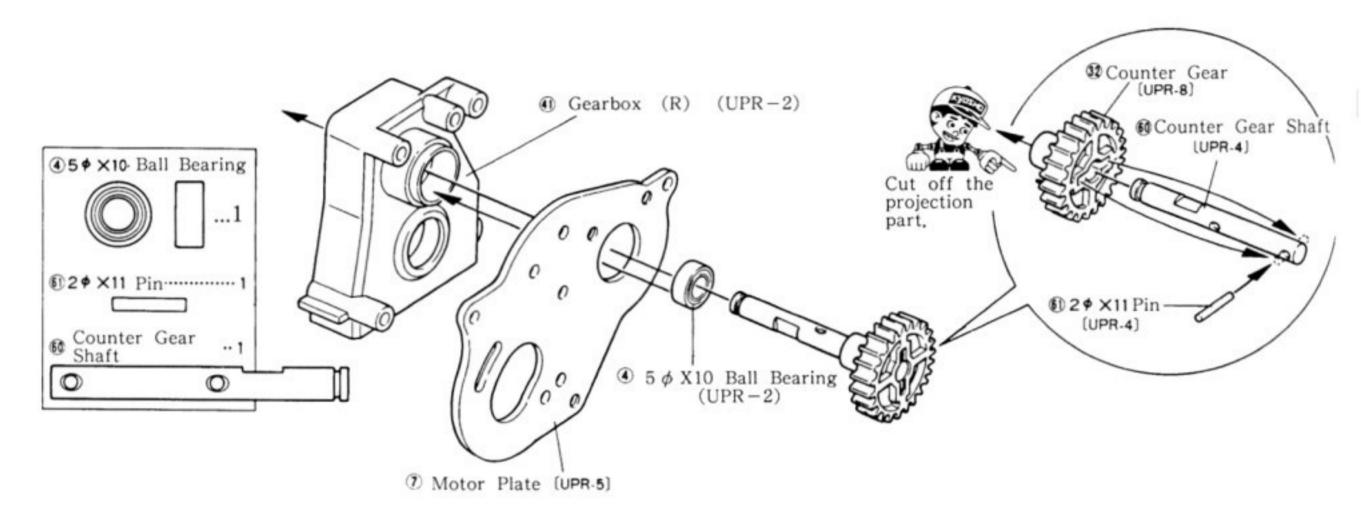
without any binding



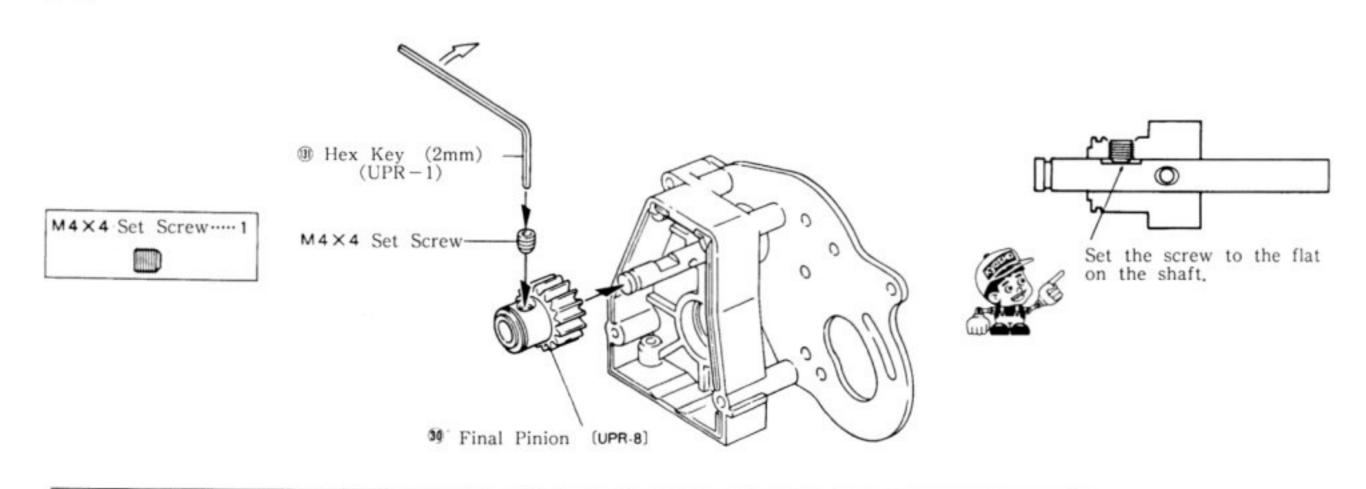


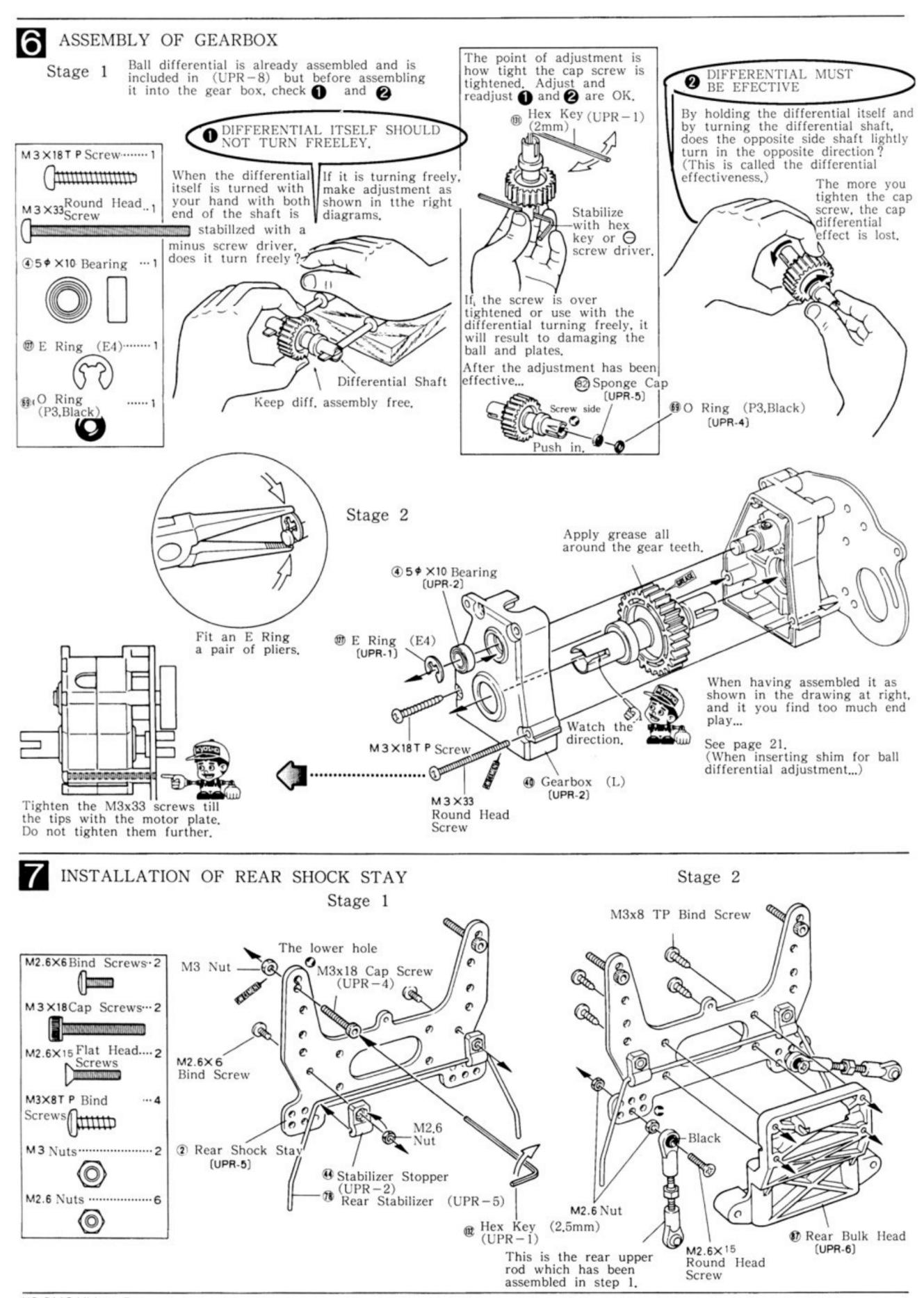


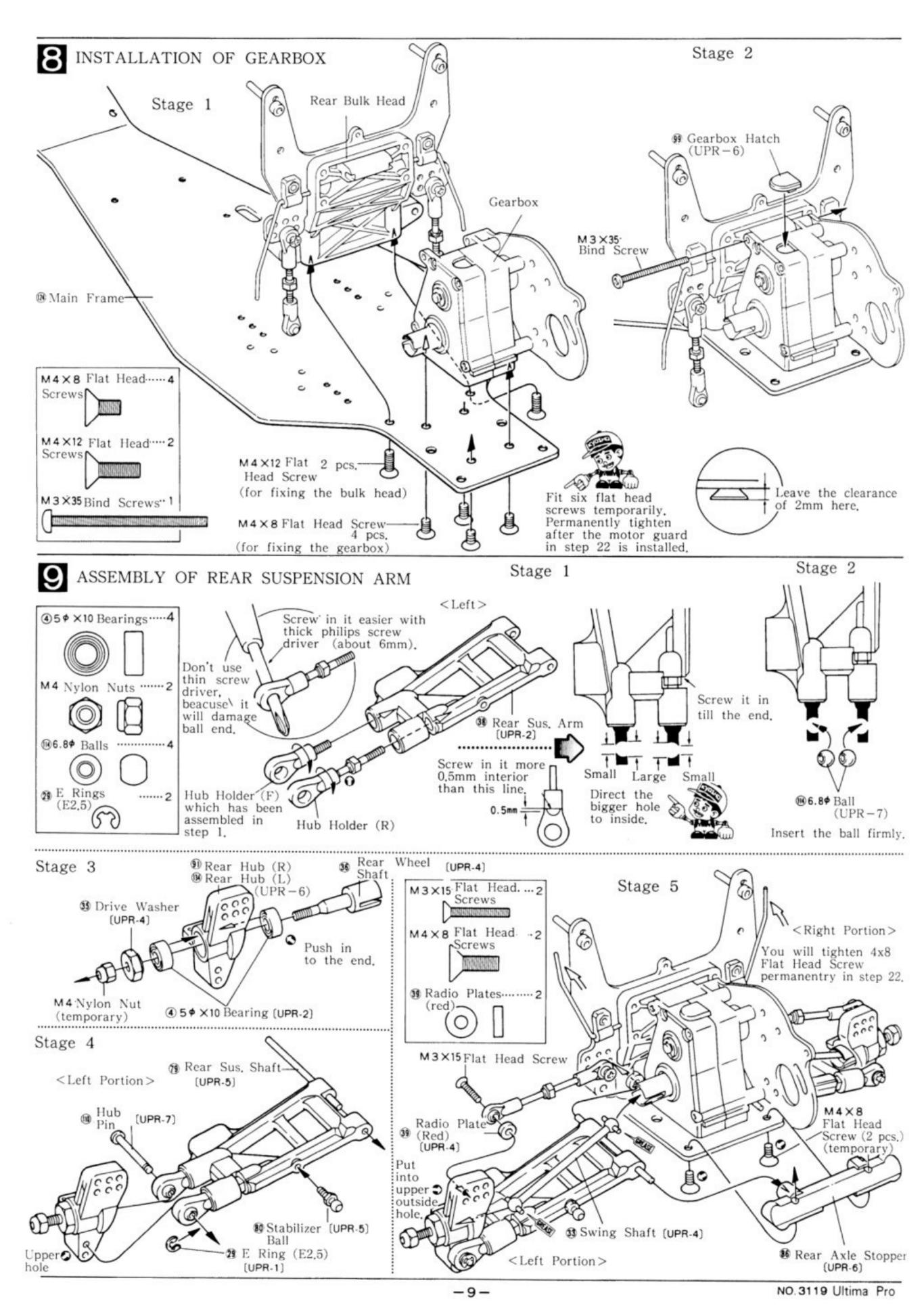
## INSTALLATION OF COUNTER GEAR

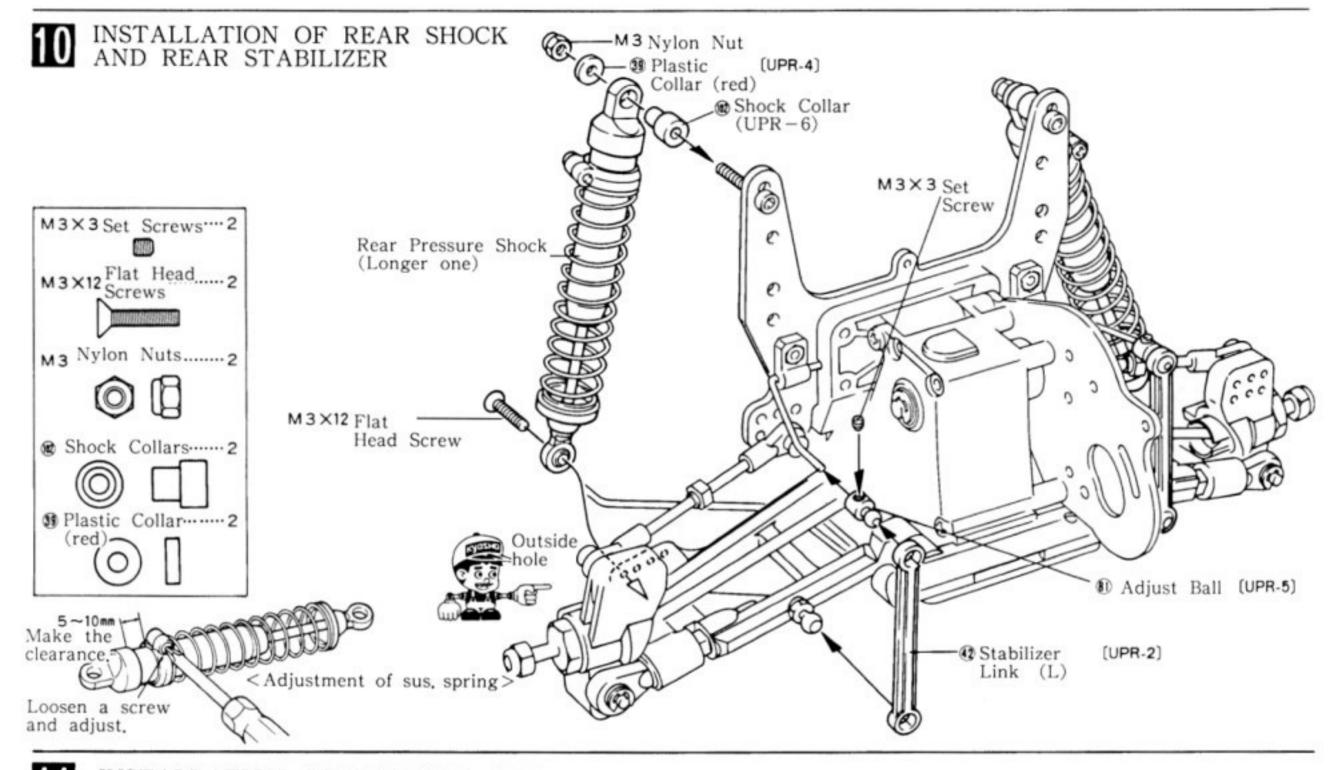


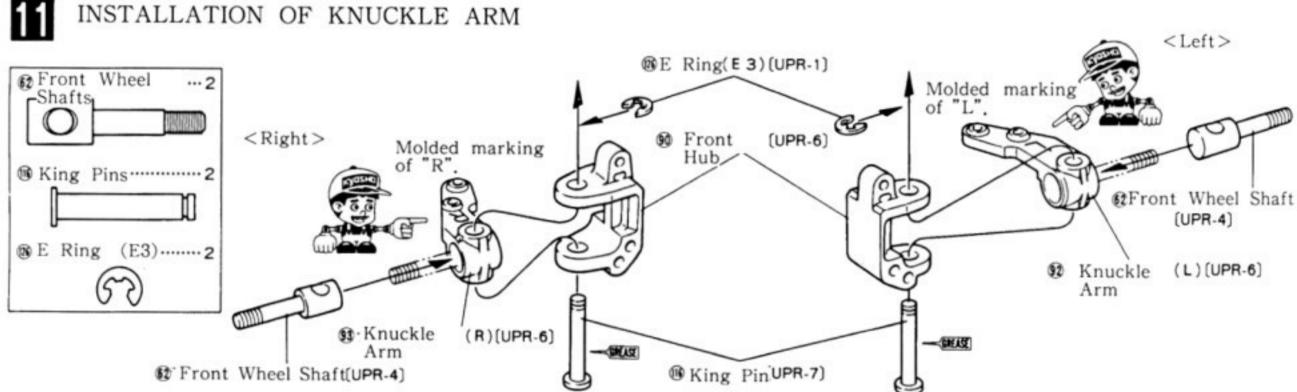
## INSTALLATION OF FINAL PINION GEAR

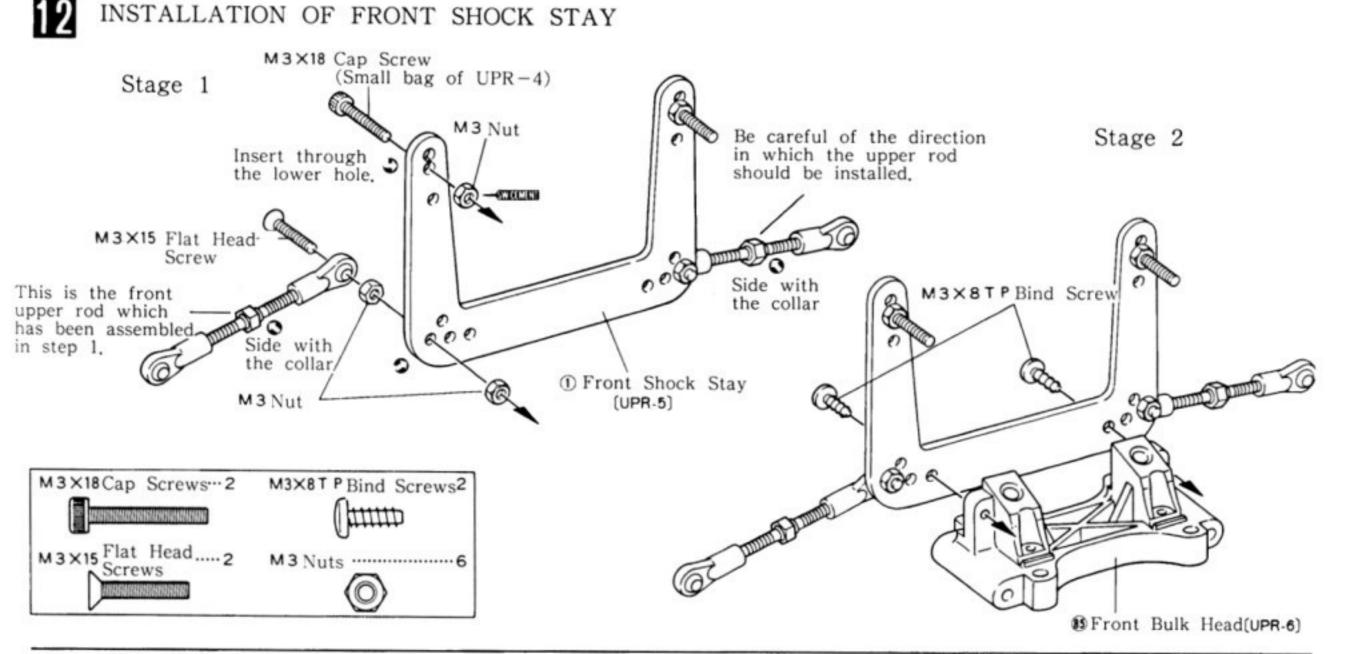


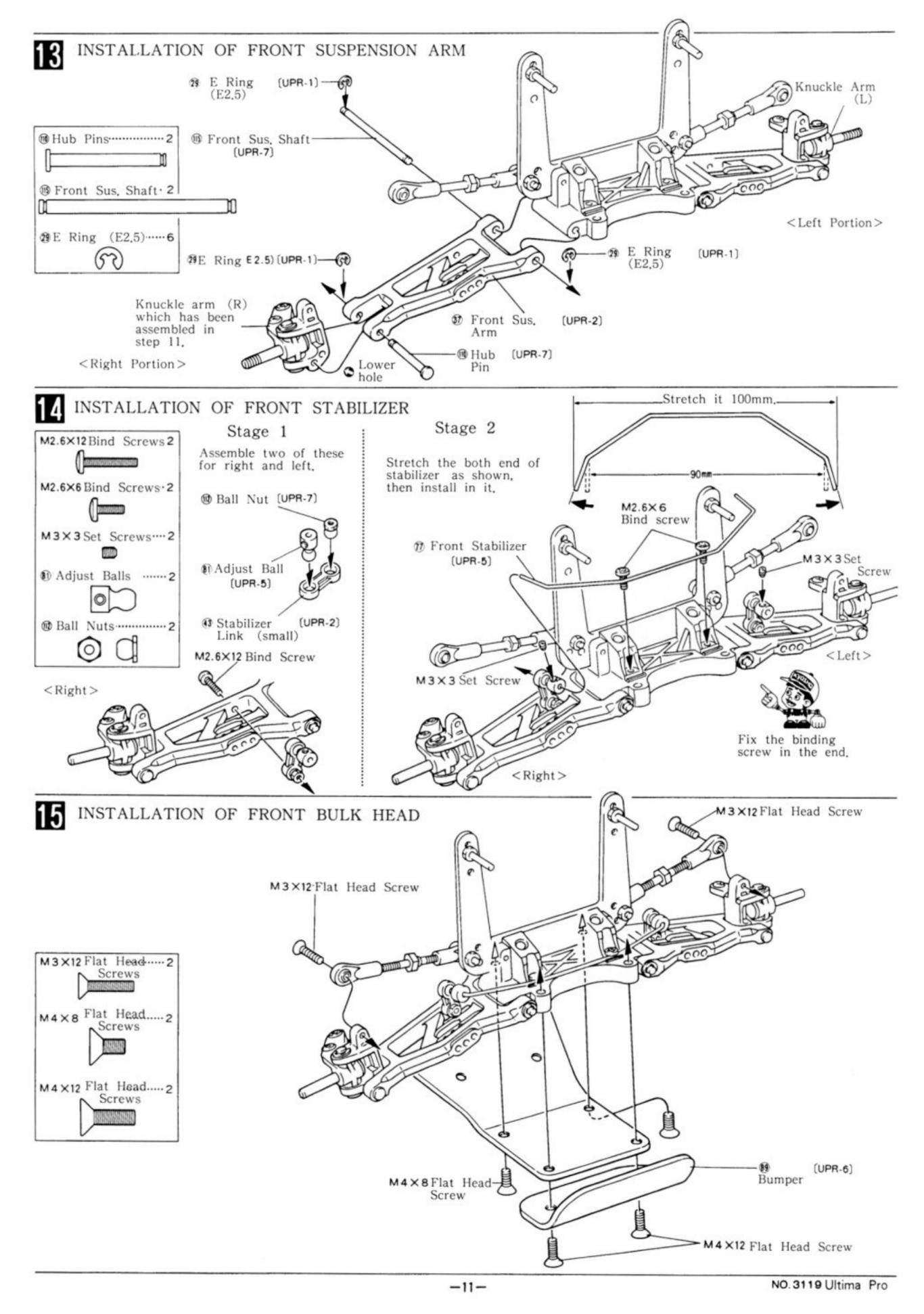


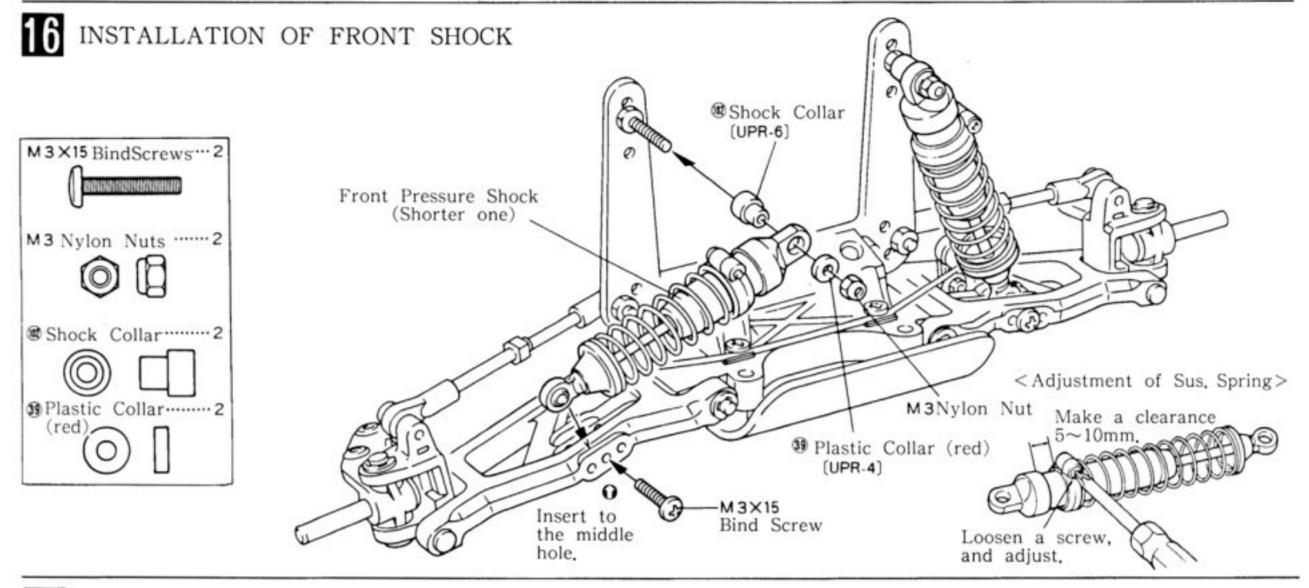




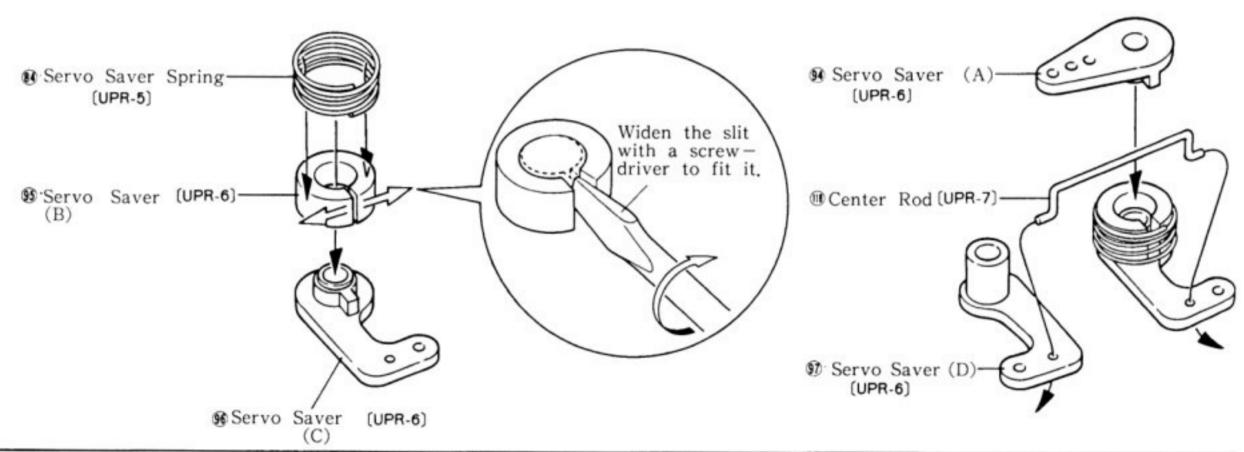


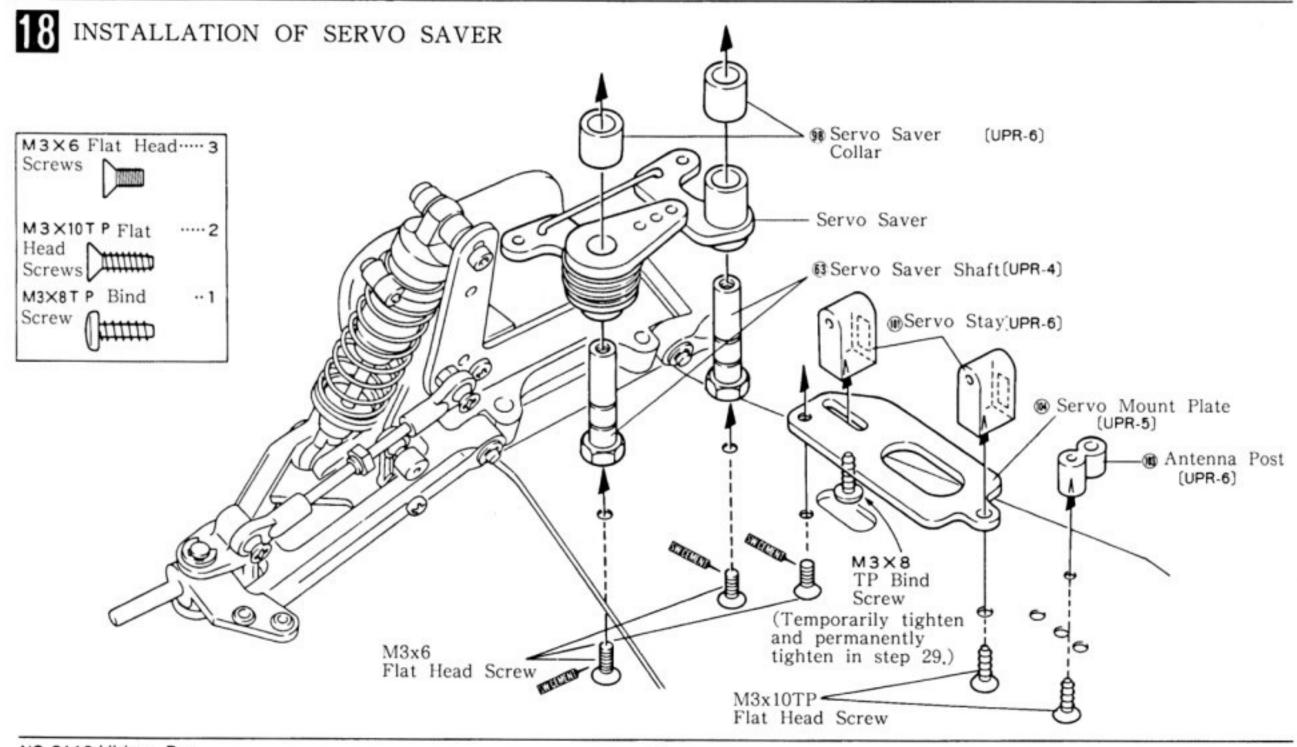


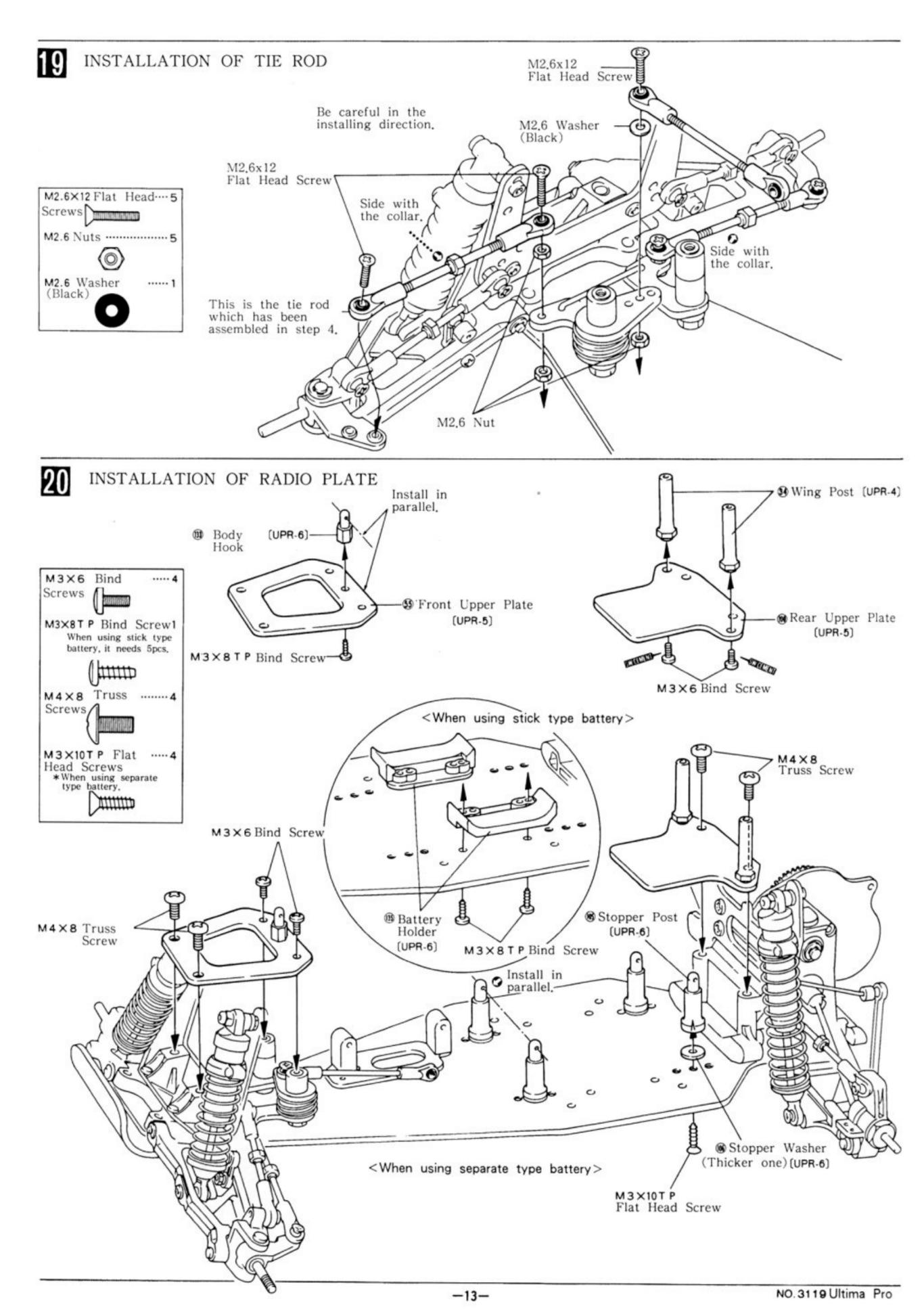




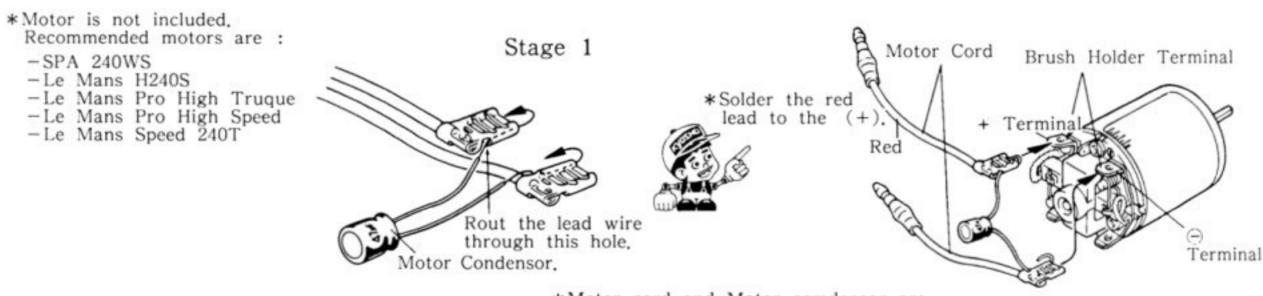
### 17 ASSEMBLY OF SERVO SAVER



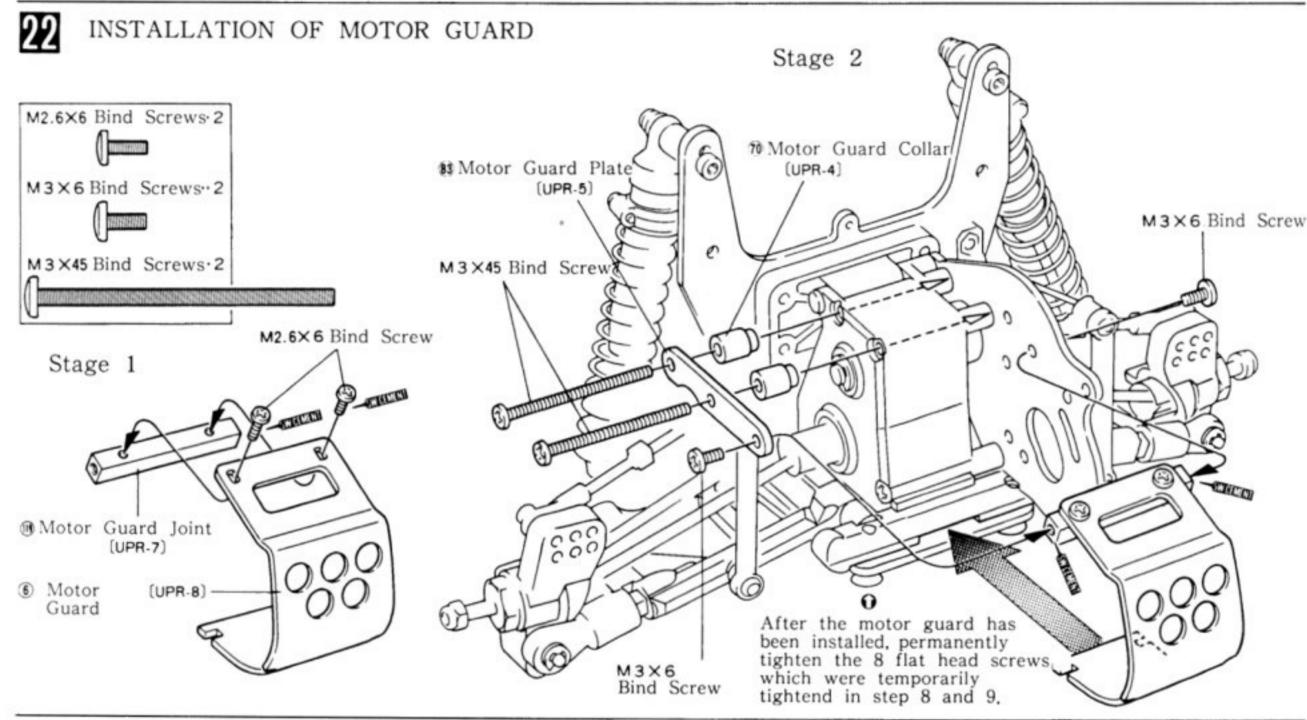


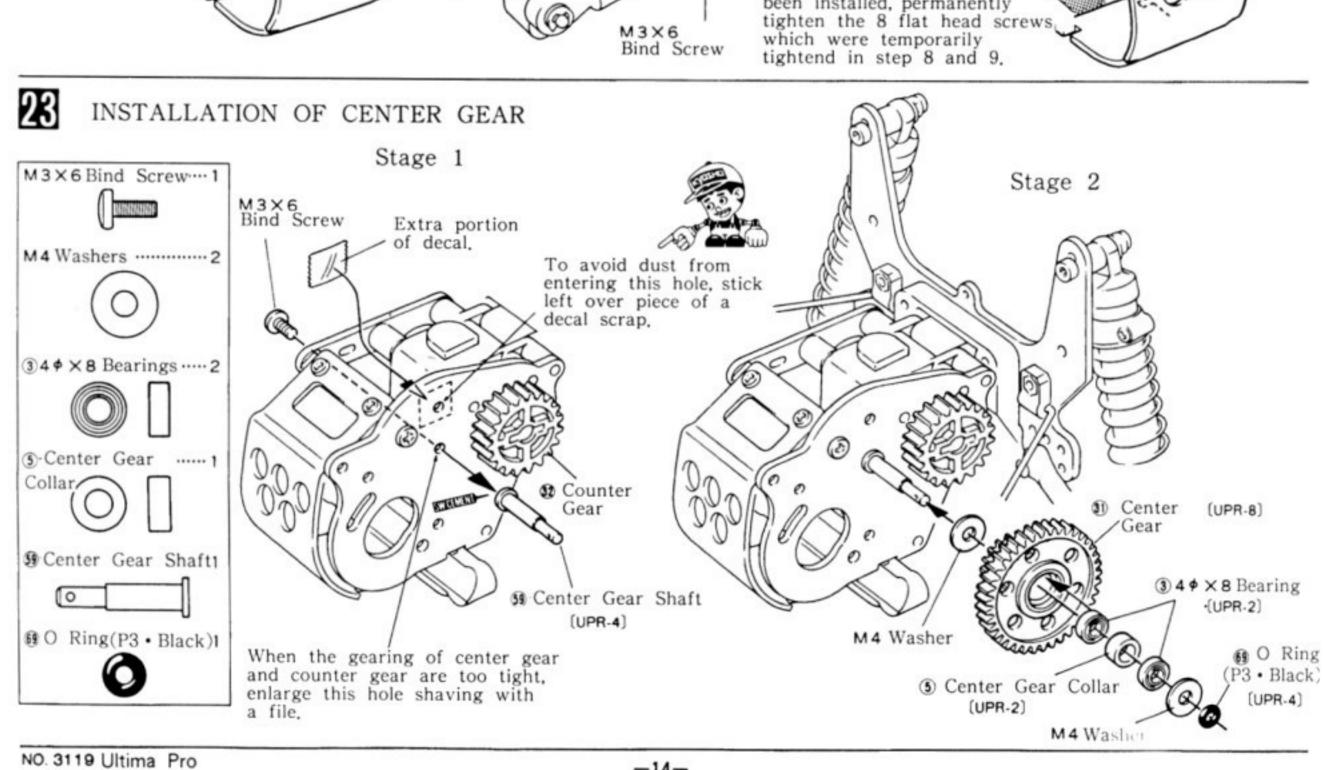


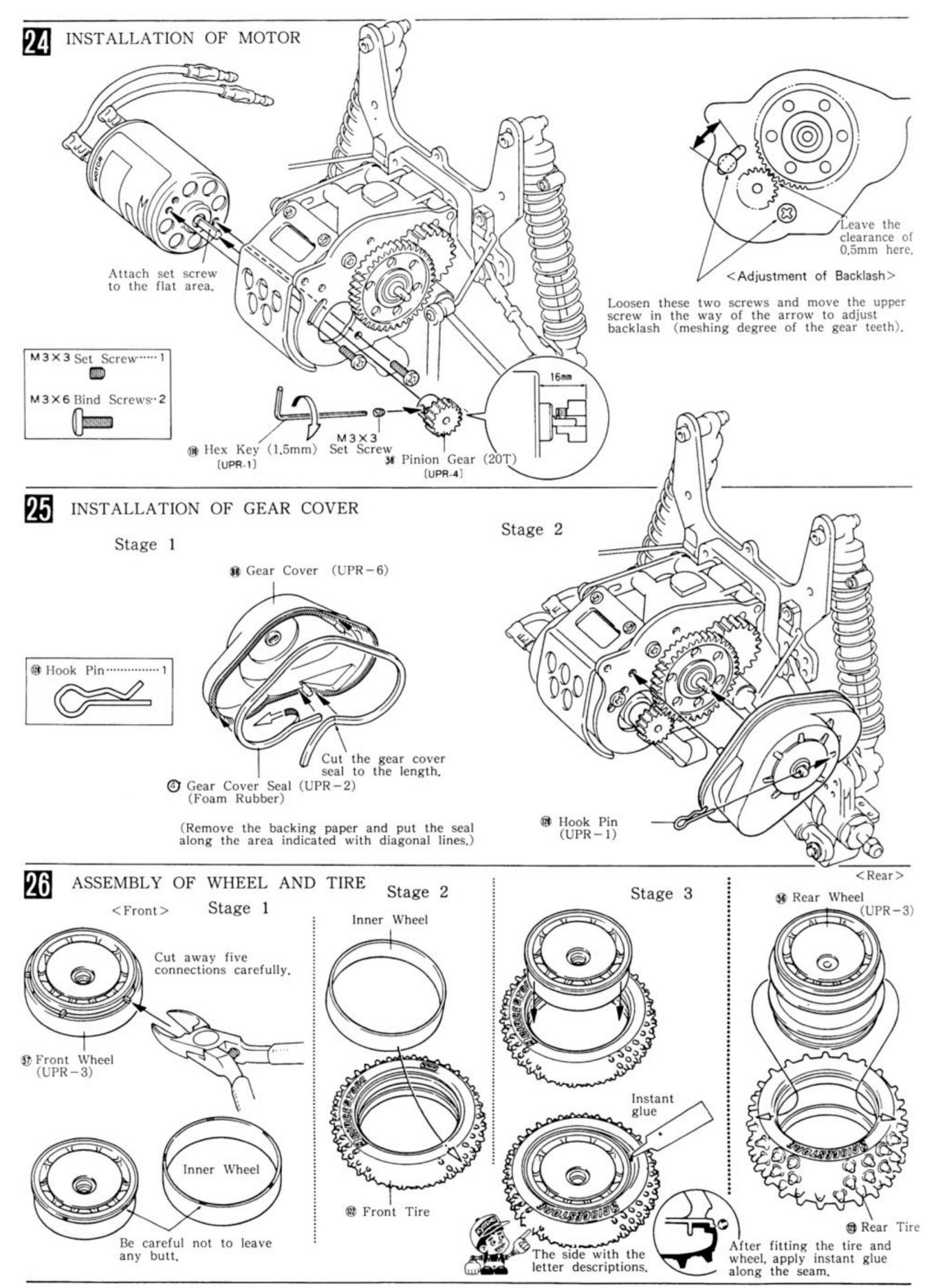


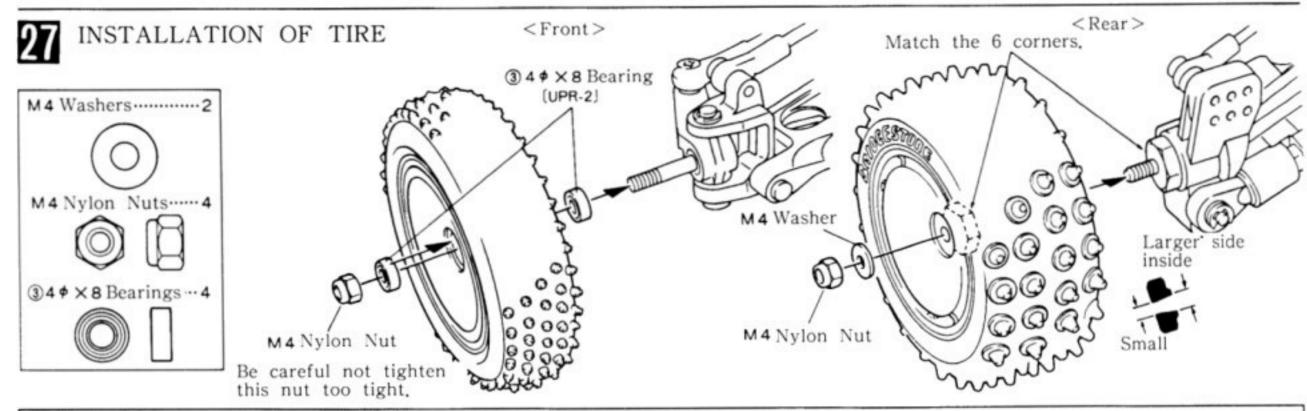


\*Motor cord and Motor comdensor are attached in the motor.

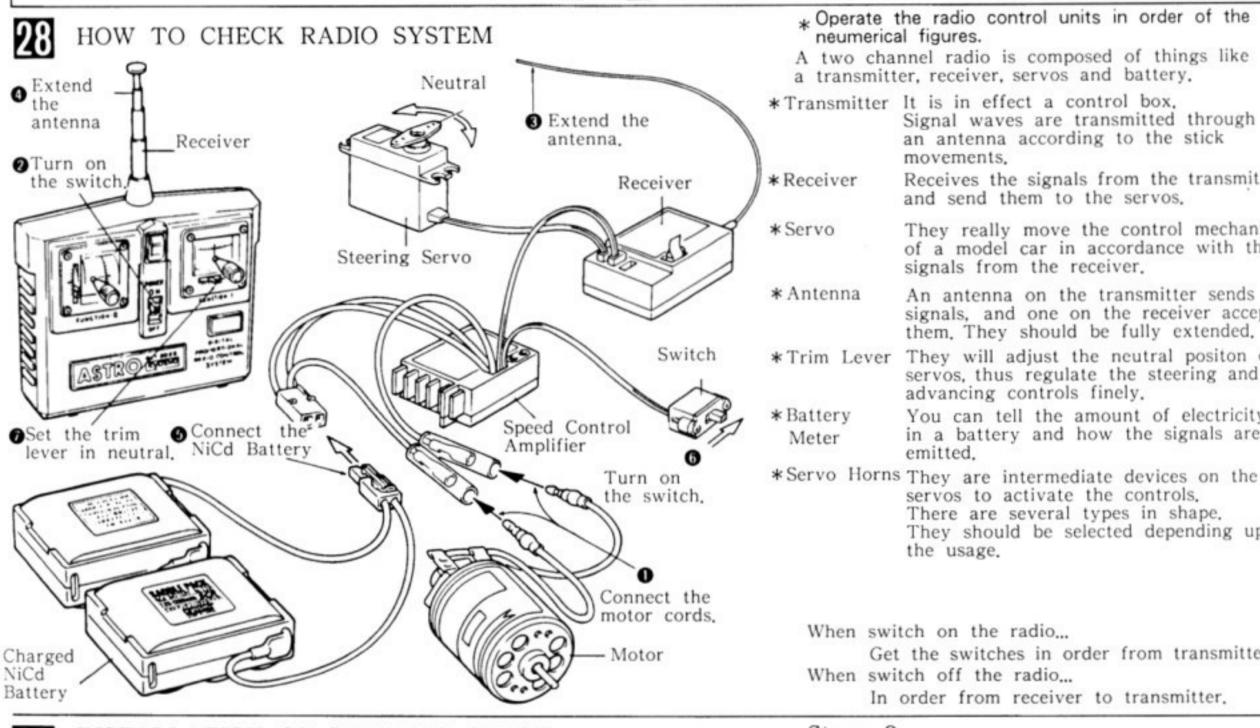








#### INSTALLATION OF RADIO UNIT · LINKAGE 28 - 32



\* Operate the radio control units in order of the

A two channel radio is composed of things like a transmitter, receiver, servos and battery.

\*Transmitter It is in effect a control box, Signal waves are transmitted through an antenna according to the stick

> Receives the signals from the transmitter and send them to the servos.

They really move the control mechanism of a model car in accordance with the

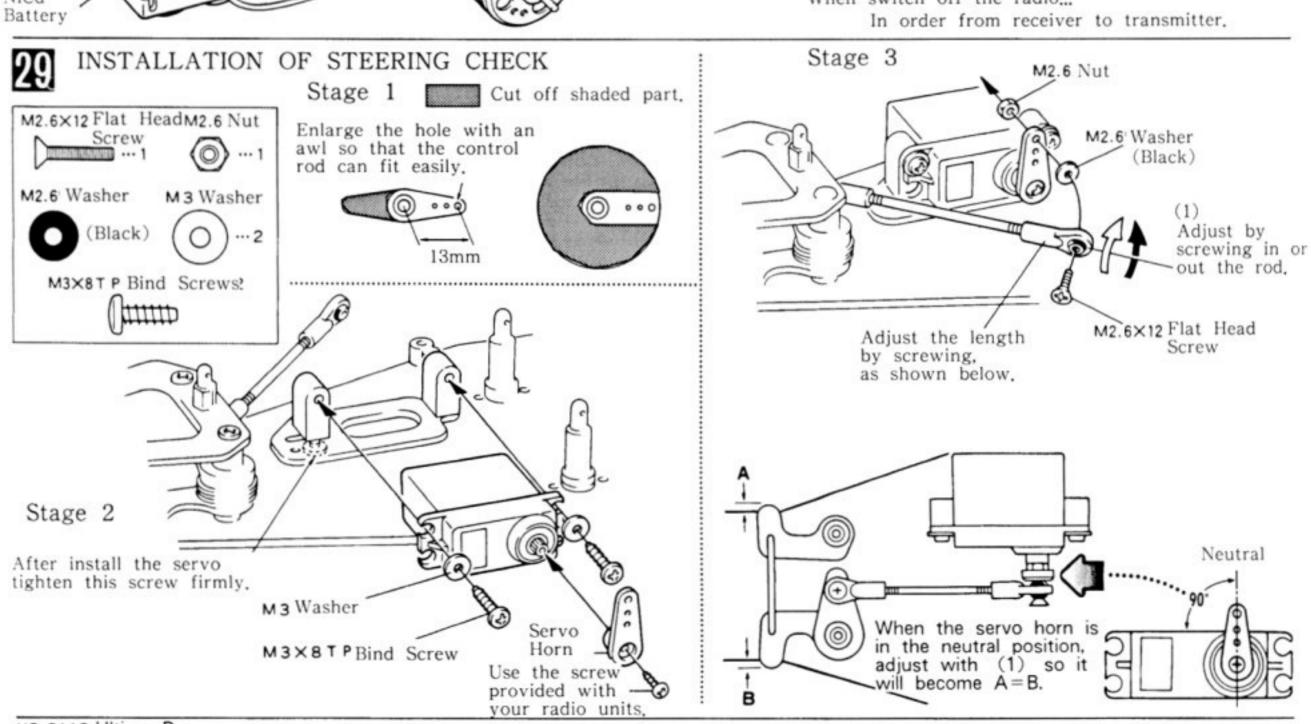
An antenna on the transmitter sends signals, and one on the receiver accepts

\*Trim Lever They will adjust the neutral positon of servos, thus regulate the steering and

You can tell the amount of electricity in a battery and how the signals are

\*Servo Horns They are intermediate devices on the servos to activate the controls. There are several types in shape. They should be selected depending upon

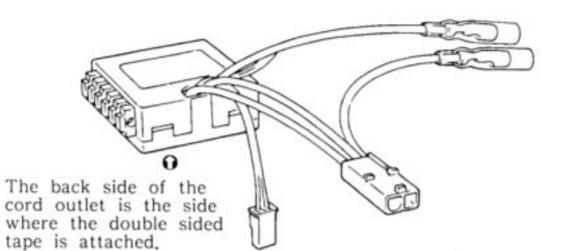
Get the switches in order from transmitter to

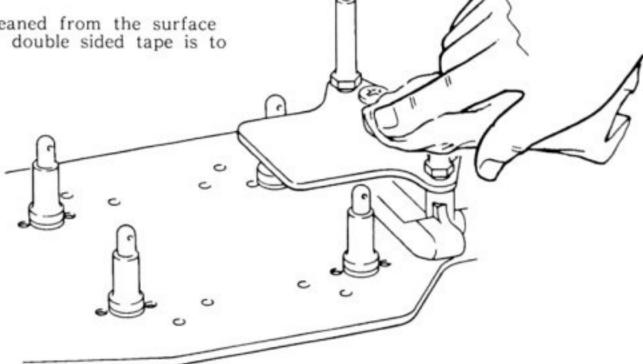


#### INSTALLATION OF AMP



Have finger prints and oils removed and cleaned from the surface of the amp and mechanism plate where the double sided tape is to be attached,



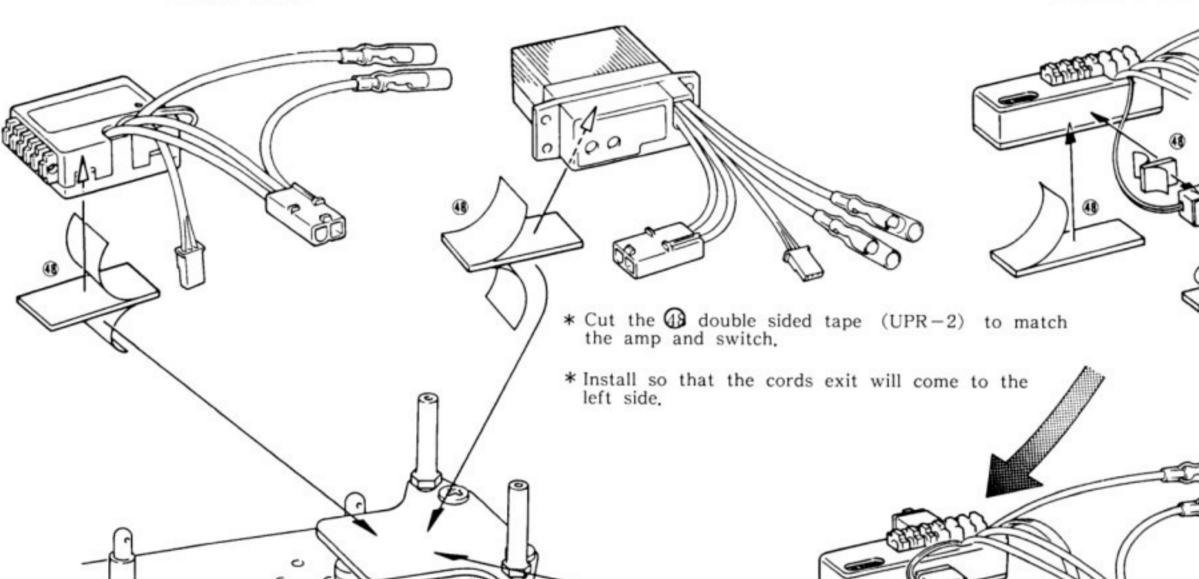


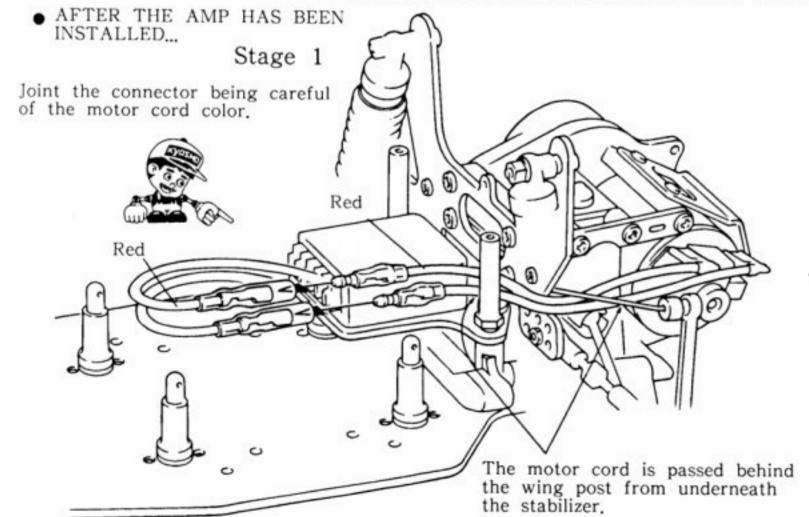
<SMALL TYPE>

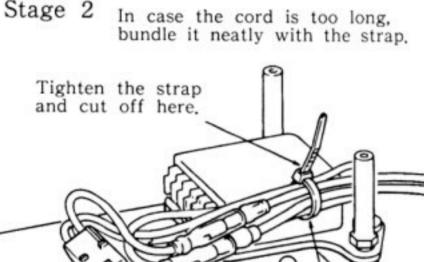
#### <SERVO TYPE>

<OBLONG TYPE>

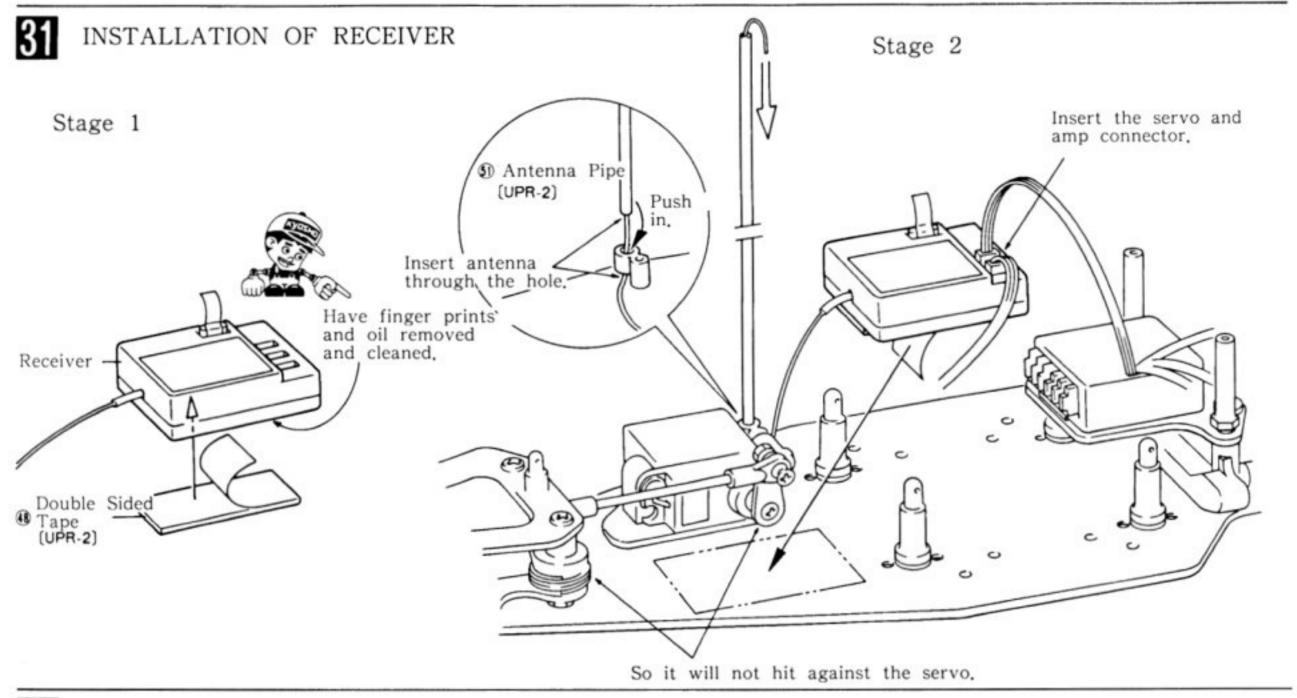
Mini Switch



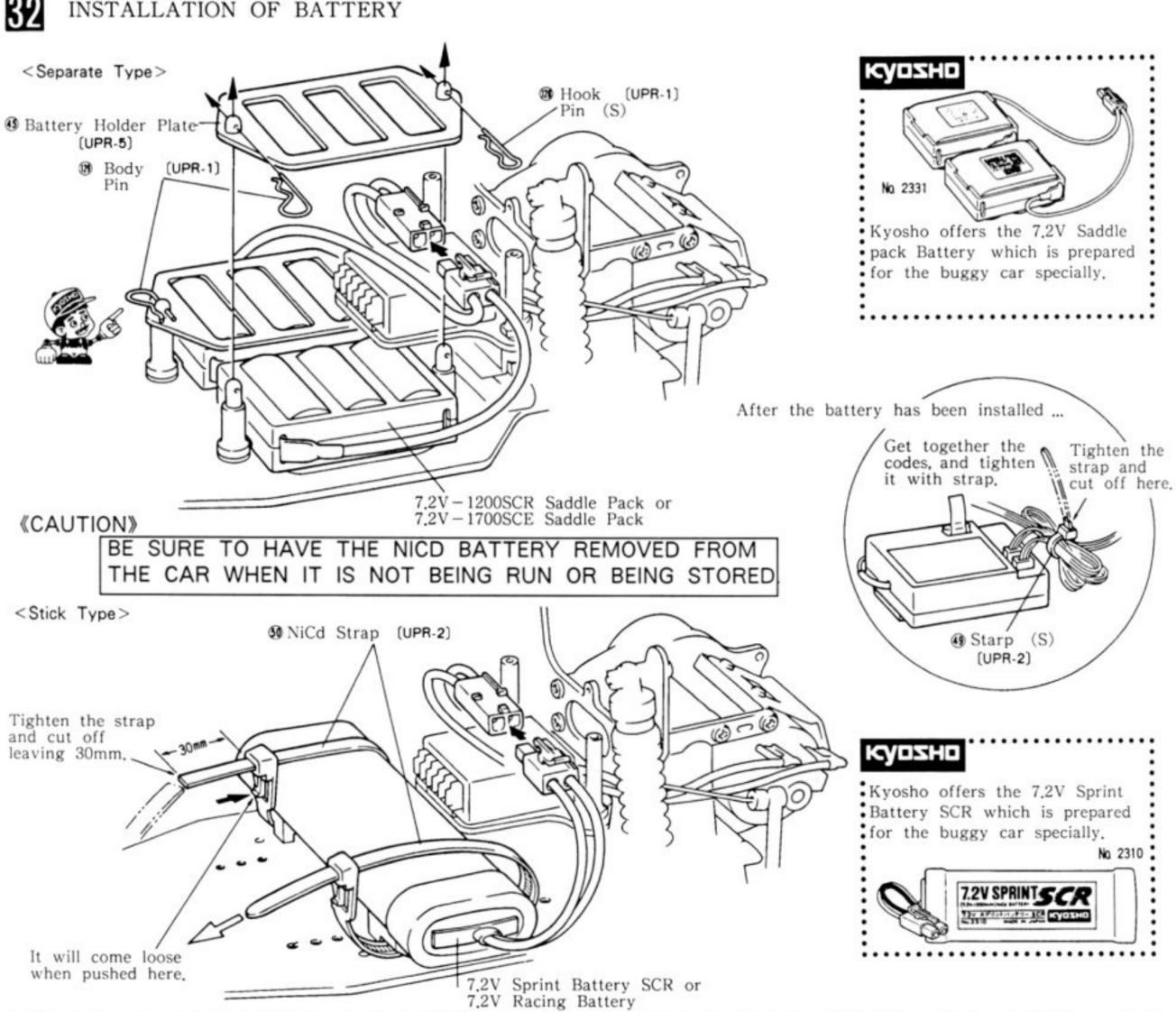


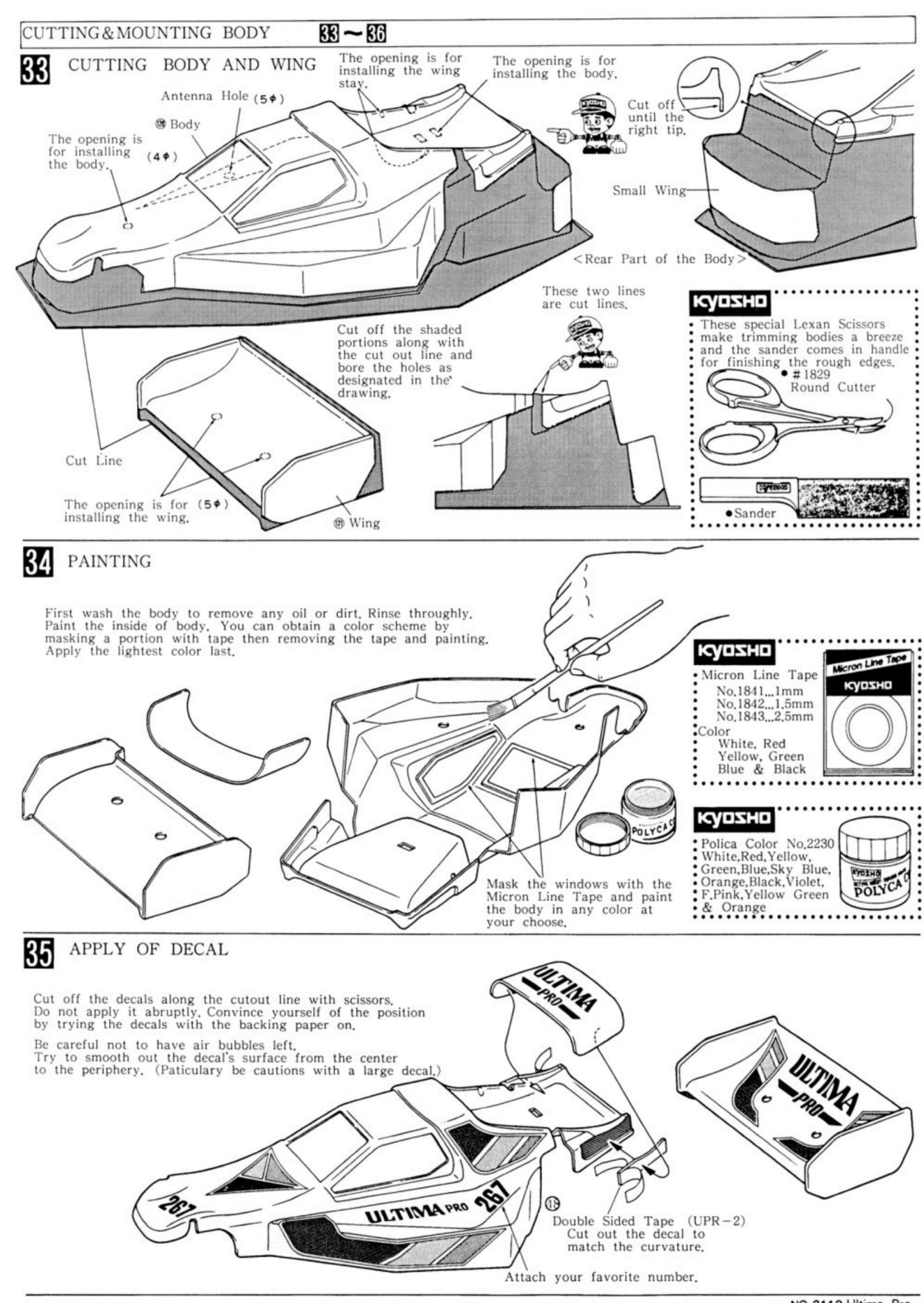


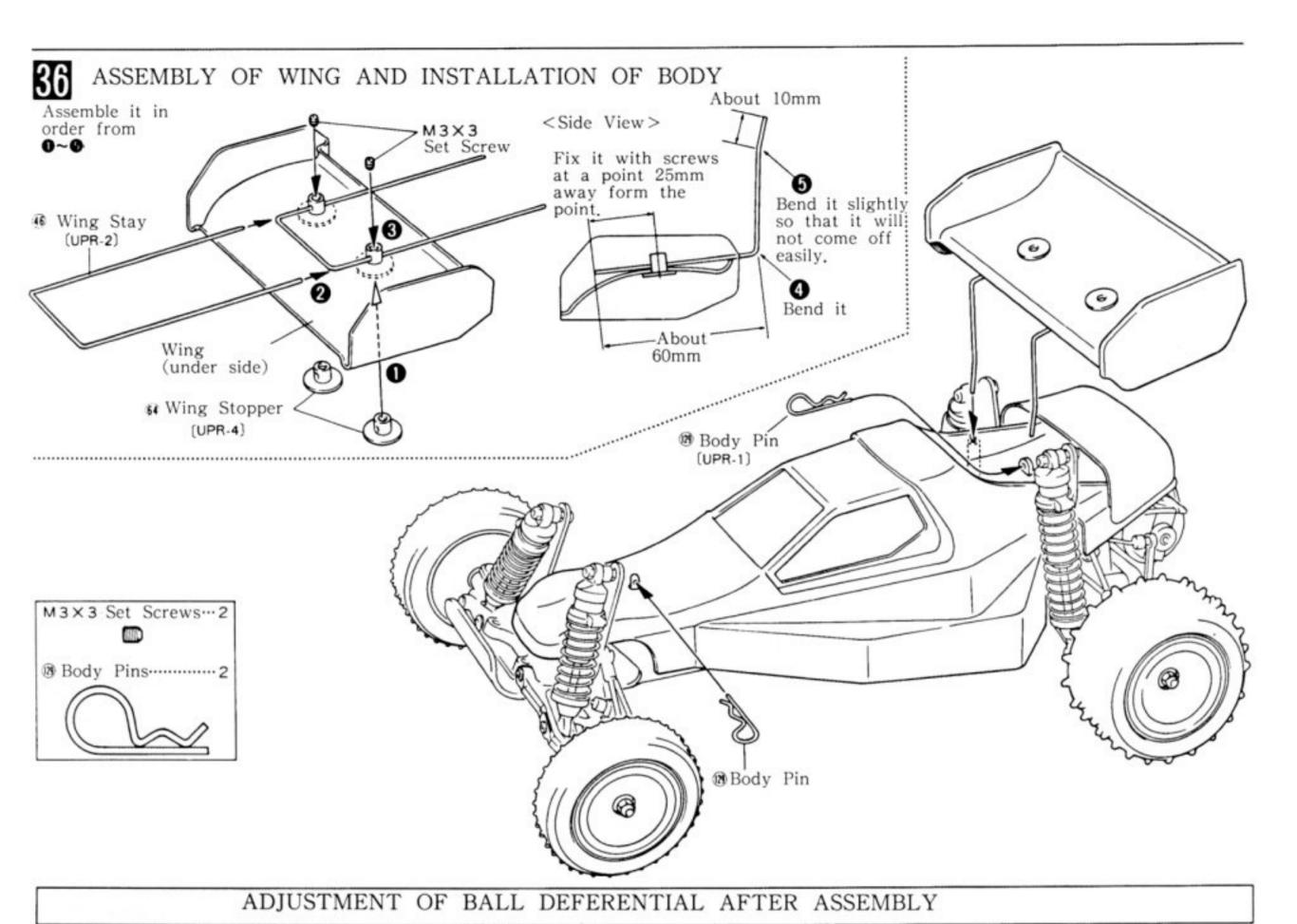
Stage 2







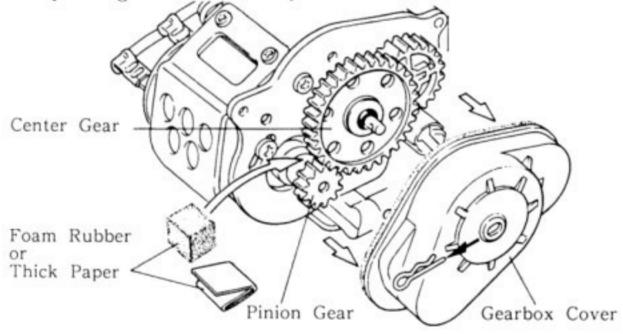




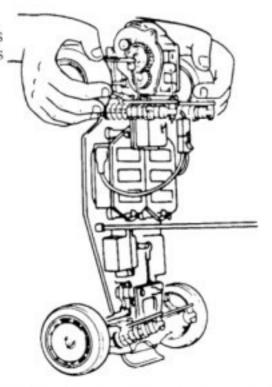
#### < Adjustment of Ball Differental>

The ball differential gear been adjusted as shown at the left column. But after the assembly, take a look in the following ways if the cap screw is tightened properly.

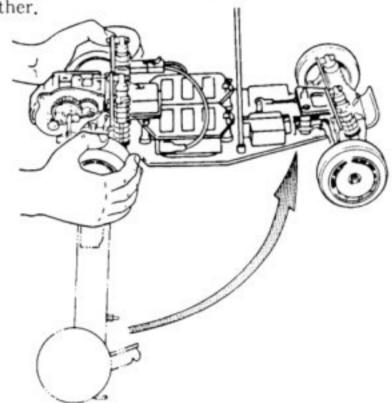
Remove the gearbox cover first, then put a piece of foam rubber or thick paper between the center gear and the pinion gear to lock them.



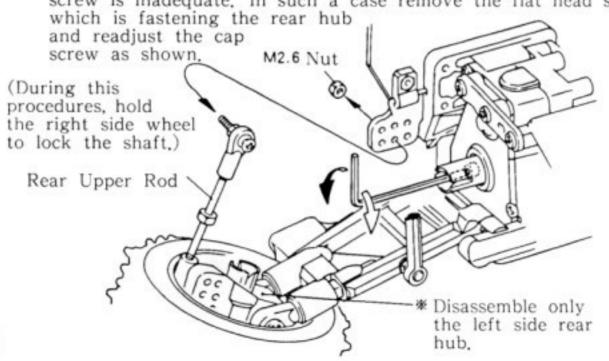
Hold the rear wheels with your both hands and raise the model vertically.



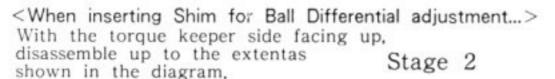
3 Swing the model car upward by holding the rear wheels. The best adjusted model will be raised to become horizontal and not farther.

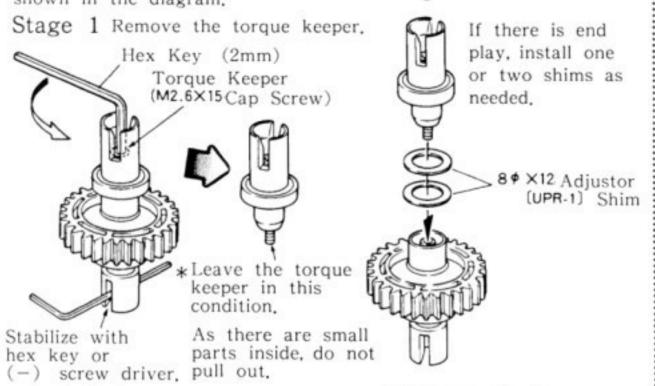


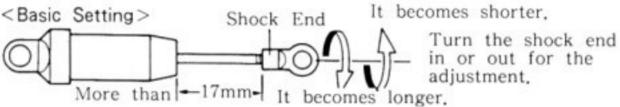
If the model goes up beyond the horizontal position, it indicates that the cap screw has been tightened excessively. Conversely if it does not reach to the horizontal line, tightening of the cap screw is inadequate. In such a case remove the flat head screw which is fastening the rear hub



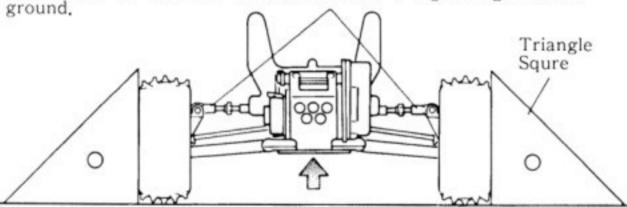
#### SETTING GUIDE

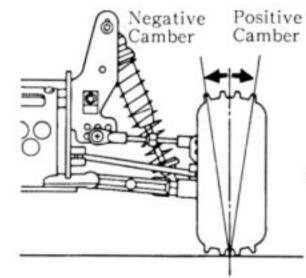






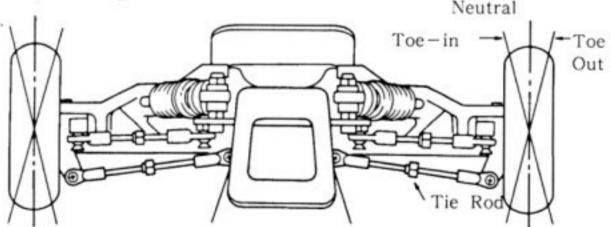
Place the model car on a flat surface, and keep the car with the maximum body clearance, and adjust length of the front and rear upper rods so that the wheels stand at a right angle to the ground





Positive \* By adjusting the upper rod shorter, you will have a trait of negative camber. With negative camber adjustment on the front wheels, you will have sharper steering tendency, while on the rear wheel, the gripping power becomes higher.

\* By lengthening the upper rod, positive camber adjustment is gained. With positive camber on the front wheels, you will have a trait of under steering, while on the rear wheel you will have the car with over steering traits.



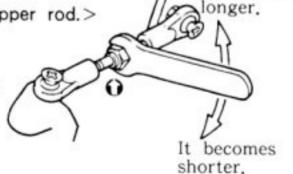
Adjust the tie rod longer.
 Become toe-in.
 Slower Response
 Over steer

<Toe-in Angle>

Adjsut the tie rod shorter
 Become toe-out
 Quicker Responce
 Under steer
 It becomes

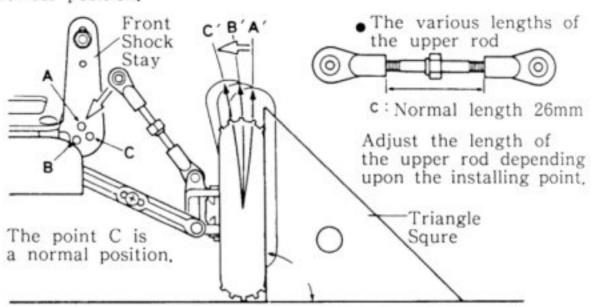
<The way of adjustment of upper rod.>

As same as tie rod, it can be adjusted in the way right picture,



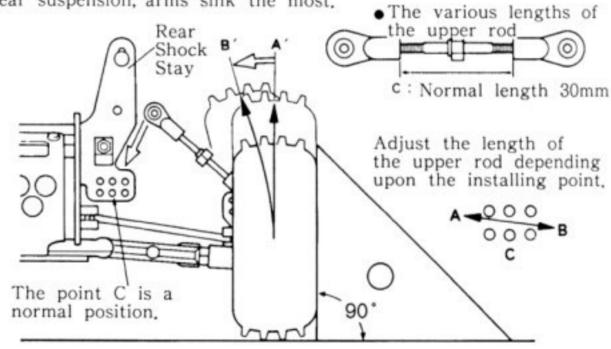
<Correlation between installing of Front Upper Rod and Camber Angle >

The installing points A, B and C on the front shock stay for the upper rod correspond to A', B' and C' which are the maximum camber angle when the front suspension arms swing down to the lowest position.



<Correlation between installing position of the Rear Uppoer Rod and Camber Angle>

The installing points A and B on the upper rod plate will result in the positions of the rear camber angle A' and B' when the rear suspension, arms sink the most.



< Relation between Gear Ratio and the Motor>

Pinio Gear No. of		15 T	16 T	17 T	18 T	19 T	20 T	21 T	22 T	23 T
	Ratio	11.1	10.4	9.8	9.2	8.7	8.3	7.9	7.5	7.2

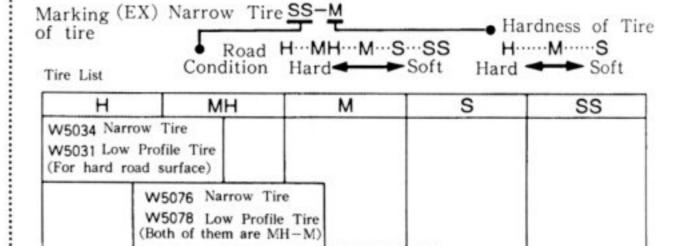
#### <Adjustment of Hardness of Shock Action>

No. 1915 Oil Set	Yellow	Green	Yellow	Red	Green	Red
Piston	50	50	503	50	63	0
Hardness	Hai	rder			Softe	r

\*Take this chart just as general indication.

#### <Setting of Tires>

Any of the tires listed below can be used with the "Ultima Pro". Choose the one most suitable for the road condition.



W5033 Narrow Tire
OT-66 Low Profile Tire
(Both are pin type)

W5032 Low Profile Tire
(for soft road surface)

W5075 Narrow Tire
W5077 Low Profile Tire
(Both of them are SS-M

#### INSTALLATION OF OPTIONAL WING STAY

Wing Stay (C)

Wing Washer

Wing Stay (C)

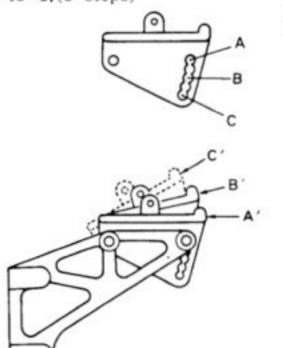
Wing Washer

Wing Stay (B)

Wing Stay (B)

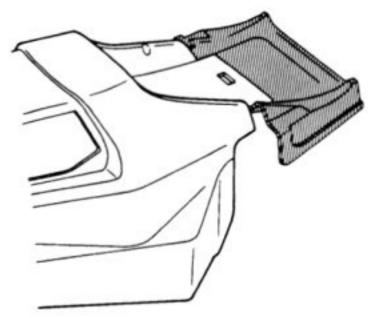
Wing Stay (A)

Rear Shock Stay M2.6×12T P Bind Screw



<Cutting of Body>

When set the wing stay, cut the diagonal part as shown under the picture,

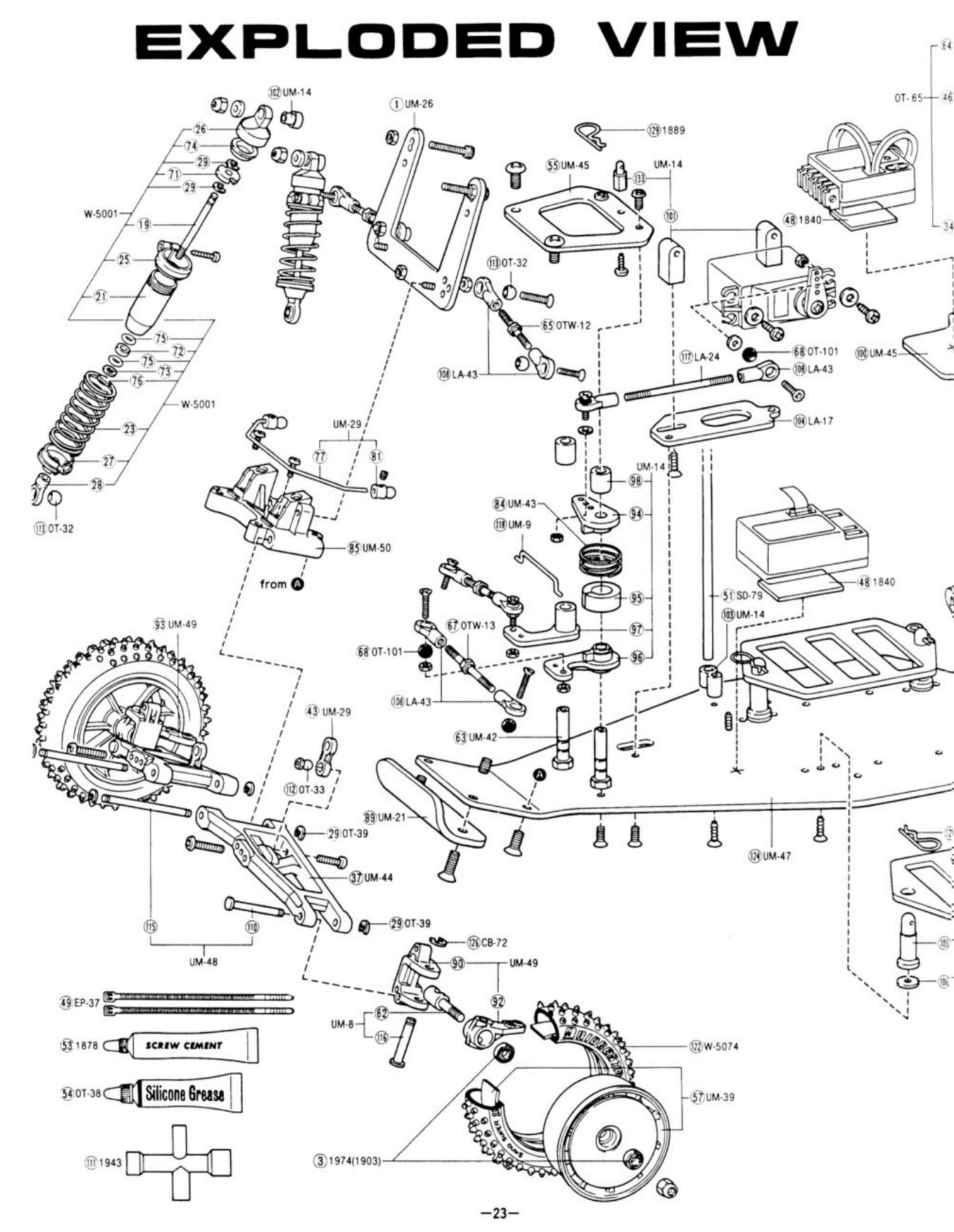


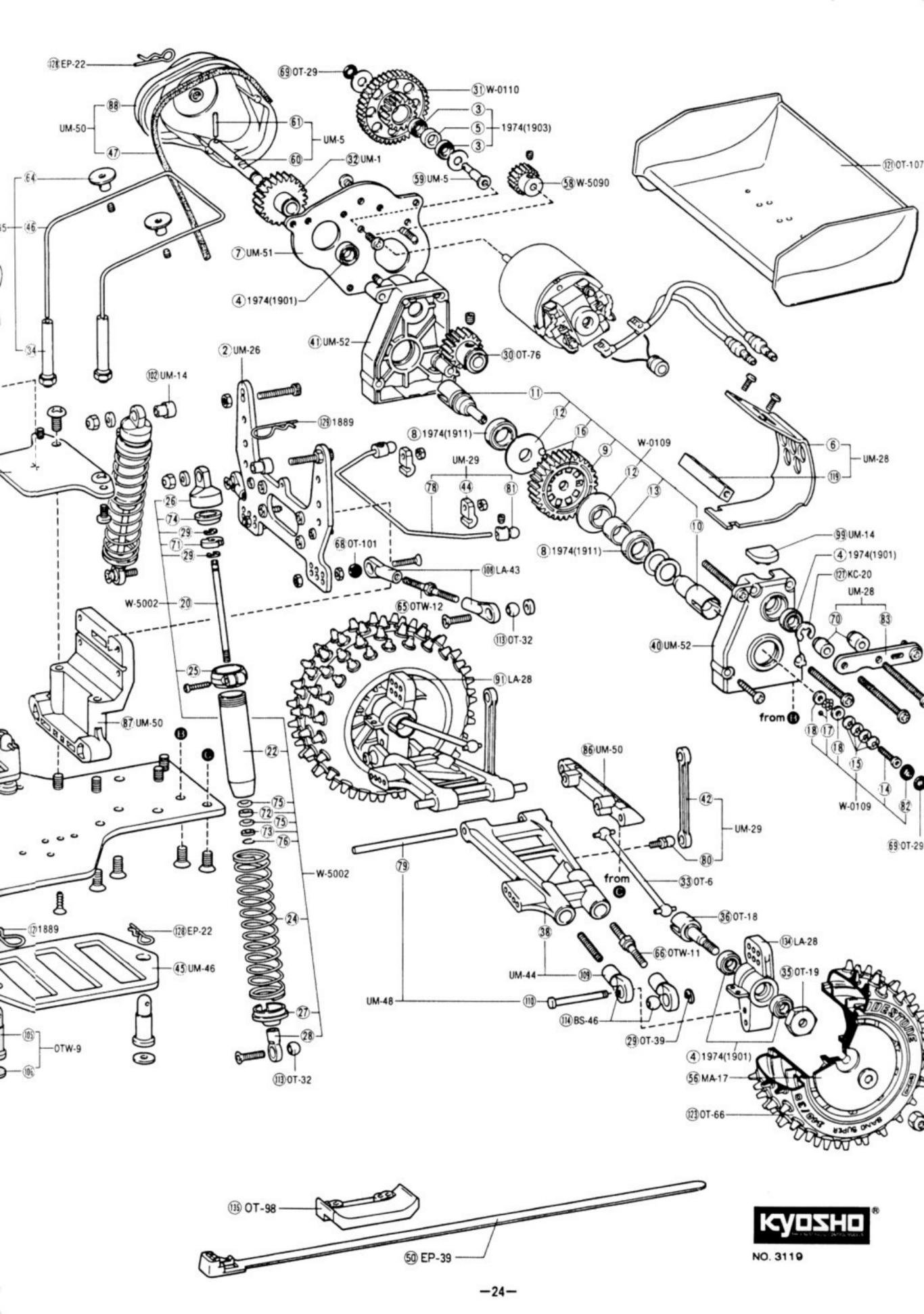
#### PARTS LIST

Key # Parts Name Q'ty	Key # Parts Name Q'ty	Key # Parts Name Q'ty	Key # Parts Name Q'ty  Main Frame
① Front Shock Stay1	Stabilizer Link (L)2	Motor Guard Plate1	S
② Rear Shock Stay1	(S)2	Servo Saver Spring "1	o been.
3 4 \$\times 8 \text{ Bearing } \text{6}	Stabilizer Stopper2	€ Front Bulk Head1	(B) E Ring (E3) (Balck) ⋅・・・・・・※ 2
④ 5 ♥ ×10 Bearing6	19 Battery Holder Plate "2	86 Rear Axle Stopper1	⊕
(5) Center Gear Collar1	(6) Wing Stay1	Rear Bulk Head ············· 1	(3) Hook Pin*3
6 Motor Guard1	@ Gear Cover Seal1	€ Gear Cover 1	Body Pin ⋯⋯※ 4
① Motor Plate1	Double Sided Tape 1	89 Bumper 1	(3) Hex Key (1.5mm)1
	Strap (S)2	(9) Front Hub2	(3) • (2 mm)············1
⑤ ⑨ Differential Gear	№ NiCd Strap	Rear Hub (R)  1	∰ * (2.5mm) ·······1
◎ ① Diff, Shaft (A)1	3 Antenna Pipe1		(B) Body Hook1
<b>◎</b> ①	Shock Oil (Green)		⊕ Rear Hub
⊚ Pressure Plate2	3 Screw Cement (Locktite) 1	Servo Saver (A) 1	⊕ Battery Holder ······2
◎ 13 8 \$ × 10 Collar ····· 1	Silicon Grease1	99 • (B)1	Cap Screw M3×18······4
ON Torque Keeper M2.6x15 ⋅1	3 Front Upper Plate1	96 ≁ (C)·······1	Bind Screw M2.6×6 ··· 6
◎ ③ Tapered Washer4	Rear Wheel → 2	⑨	
◎ 16 Differential Ball10	Front Wheel2	Servo Saver Collar ⋯⋯2	
	₱ Pinion Gear (20T) 1	Gear Box Hatch	
Thrust Washer	59 Center Gear Shaft1	Rear Upper Plate1	
• 19 Front Shock Shaft 2	60 Counter Gear Shaft 1	⊕ Servo Stay	≁ M3×45······2
● 20 Rear	⑥ 2 ♥ ×11 Pin ····· ※ 1	® Shock Collar4	Round Head Screw M3 X33······1
• 20 Front Shock Case 2	6 Front Wheel Shaft2	M Antenna Post ····· 1	Flat Head Screw M2.6×12 ··· 6
• 2 Rear • 2	6 Servo Saver Shaft 2	® Servo Mount Plate ·····1	* M3×63
● ② Front Shock Spring 2	Wing Stopper2	® Stopper Post ······4	
• ② Rear • ··· 2	65 3 ≠ ×40 Adjust Rod …4	Stopper Washer (Thiner one) 4	
● ② Spring Holder4	66 3 ∮ ×32	(Thicker one)	<i>M</i> 4 × 8 ······ 8
● ② Shock Cap4		® 5.8¢ Ball End 14	* M4×12·····4
• ② Spring Stopper4	68 5.8¢ Ball (Black)8	№ 6.8Ф •4	Thruss Screw M4×84
● 28 Shock End4	Ø O Ring (P3 • Black) · · · · · 2	10 Hub Pin4	TP. Bind Screw M3×8·····14
● 29 E Ring ( E 2.5)*16	Motor Guard Collar 2	(III) Cross Wrench1	T P Round Head M3 X181
30 Final Pinion 1	●⑩ Shock Piston ···········4	@ Ball Nut2	T PFlat Head Screw M3 X10 ······6
3 Center Gear1	●  Shock Collar (White) ····· 4	® 5.8¢ Ball (Silver)······10	Nut M2.612
3 Counter Gear1	●③ * (Black) ****** 4	® 6.8¢ Ball4	* M38
3 Swing Shaft2	1 Pressure Top4	® Front Suspension Shaft…2	Nylon Nut M34
3 Wing Post2	• 13 O Ring (P3 • Red)8	® King Pin2	* M44
3 Drive Washer2	●16 C Ring*4	® Steering Rod1	Washer M2.6 ··· 2
3 Rear Wheel Shaft 2	Tront Stabilizer1	@ Center Rod1	* M32
Tront Suspension Arm2	Rear Stabilizer1	® Motor Guard Joint1	• M44
3 Rear Suspension Arm 2	7 Rear Suspention Shaft 2	(2) Body1	Shim
39 Plastic Collar (Red) ·····* 6	Stabilizer Ball 2	① Wing1	Set Screw M3X3······7
Gear Box (L)1	Adjust Ball4	@ Front Tire2	→ M3×16······2
① • (R)1	® Sponge Cap1	@ Rear Tire2	* M4×4······1
	& oponge cap	e real life	Flat Head Screw M2.6x12 2
(Mand Amarked parts have been	assembled in UDD 0 Da- W	dead manta and included accuse	ather than to the fall and the X

© and ● marked parts have been assembled in UPR-8 Bag. ※ marked parts are included spare parts other than indicated quantity.)

## ULTIMA PRO





#### PURCHASABLE PARTS FOR YOUR KIT

You can purchase replacement and optional parts for your kit. All of the part identified by key number 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 with the manual.

Then consult out parts pack guide below. When referring to the parts you need, always use the Parts Pack Number. For example, if you need a Center Gear Shaft (Key #59) ask your dealer for Kyosho Parts UM-5 (Gear Shaft Set).

	Parts Name	Key No. & Q'ty
	Swing Shaft	<b>⅓</b> ×2
	Rear Shaft	®×2
OT-19	Drive Washer	39×4
O T -29	O Ring	<b>⊞</b> ×10
O T -32		®×10
OT-33	Ball Nut (M2.6)	@ ×10
	'Silicon Grease	90×1
	E Ring (E2.5)	29 ×10
		® ×1 № ® ×2
OT-66	'Wing Stay Set	
		®×2 (Pin Type)
-	Hard Final Pinion	50 × 1
O T -98	Darrery Horder Det	®×2 Sets
O T-101	-1- 7	♠ ×10 (Balck 2,6hole)
O T-107	Wing	®×1
O T W-9	Plastic Parts Set	® ®×2 ®×4
OTW-11	Adjust Rod (S)	€ × 2
OTW-12	+ (M)	<b>®</b> ×2
OTW-13	• (L)	€×2
	Wheel Set	96 × 4
UM-1	Gear Set	<b>⊕</b> ×1
	Gear Shaft Set	9 0×1 0×2
UM-8	The second secon	<b>®</b> ®×2
UM-9		@×1
UM-14		\$8\$99888X1 \$8X2 8@X4
UM-21	Front Bumper	19 × 1
UM-26	Trone Bumper	
UM-28	opecial officer oray	⑥ 18 ® × 1 70×2
UM-29		77 18 X 1 18 18 18 18 X 2 18 X 4
UM-34		
	body (Citima 110)	
UM-42	Front Wheel Set Saver Shaft Set	⑨×2 (Yellow)
UM-43		® × 2
UM-44		0 X 2
UM-45	and the control of	
UM-46	opper riate set	\$ ⊕ × 1
		⊕×2
UM-47	THE CHARGE (TITL)	® X 1
UM-48		19 19×2 19×4
UM-49	op signt oct	② ③ × 1
UM-50	Dain Head Oct	① 89 89 10 89 × 1 (for long Sus.)
UM-51		①×1
	Gear Box	<b>⊕</b> ⊕×1
	Decal (Ultima Pro)	®×1
UM-54	Screw Set	Screw, Nut, Wrench 1set
W-0109	Ball Differential	9 0 0 0 0 0 0 0 X1 0 0 X2
0103		19×4 19×8 16×10
W-0110	Special Super Gear	⑨×1
W-5001	Pressure Shock (\$)	0000000000000000
-5001	ressure SHOCK (S)	×2 29 73 76×4
W-5002		00000000000000
11-5002	• (L)	×2 9 9 7 7 ×4
W-5074	Front Tire	®×2
	H-99/012-950,0006-40,109/010690	10-10-10-10-10-10-10-10-10-10-10-10-10-1
E P -22	Double Sided Tape Hook Pin	®×5
E F -37		
E F -39	1 11	⊕×6
	med ottup	30 × 6
S D -79	Timemia Tipe	⑨×5
	E Ring (E3)	® × 4
C B -72		0
K C -20	• (E4)	®×4
K C -20		®×4 ®×5

Parts Name Ball Bearing (5 \$\phi\$ x10)  (4 \$\phi\$ x8)  (8 \$\phi\$ x14)  Screw Locking Compound  Cross Wrench 6.8 \$\phi\$ Ball Plate Set  Rear Hub Carrier 5.8 \$\phi\$ Ball End  Rod Set	3×2 5x1
• (4 \( \delta \times 8 \)) • (8 \( \delta \times 14 \)) Screw Locking Compound  Cross Wrench 6.8 \( \phi \) Ball Plate Set Rear Hub Carrier 5.8 \( \phi \) Ball End Rod Set	③ × 2 ⑤ x 1 ⑥ × 2 ⑤ X 2 ⑥ × 1 ⑥ × 1 ⑥ ※ 1 ⑥ ※ 1 ⑥ ※ 1
• (8 • ×14) Screw Locking Compound  Cross Wrench 6.8   Ball Plate Set Rear Hub Carrier 5.8  Ball End Rod Set	® × 2  ® × 2  ® × 2  ® × 1  ® × 1  ® × 1  ® × 1  ® × 1
Cross Wrench 6.8 \$\phi\$ Ball Plate Set Rear Hub Carrier 5.8 \$\phi\$ Ball End Rod Set	® X2 ® X1 ® X10 ® X1 ® X1 ® X1 ® X12
Cross Wrench 6.8 \$\phi\$ Ball Plate Set Rear Hub Carrier 5.8 \$\phi\$ Ball End Rod Set	® × 1 ® × 1 ® × 1 ® × 1 ® × 1
6.8 \$\phi\$ Ball  Plate Set  Rear Hub Carrier  5.8 \$\phi\$ Ball End  Rod Set	® × 1 ® × 1 © ® × 1 ® × 12
6.8 \$\phi\$ Ball  Plate Set  Rear Hub Carrier  5.8 \$\phi\$ Ball End  Rod Set	® × 1 ® × 1 © ® × 1 ® × 12
Plate Set Rear Hub Carrier 5.8 \$\phi\$ Ball End Rod Set	® X 1 ⑨ ® X 1 ® X 12
Rear Hub Carrier 5.8 Ø Ball End Rod Set	⑨ ⑩ × 1 ⑯ ×12
5.8 ¢ Ball End Rod Set	® ×12
Rod Set	
	⑩×2
OPTION P	
OPTION P	
OPTION P	
0, 1,0,1	ARTS
Wing Stay Set	made by nylon
Carbon Chassis	made by nyion
Wheel Set	Pear Front each 2 nos
	Rear, Front each 2 pcs.
	one-piece type 4 pcs.
	4 φ Silicon Code
	for Le Mans Motor
Sponsor Sticker	Decal Sponsor Mark
Sponge Tire (A)	for wet hard road surfa
	30cc
	Viscosity (Soft)
	• (Medium)
• (H)	• (Hard)
Shock Oil (S,M,H),	Soft,Medium,Hard
Mentenance Set	Mentenance Parts for motor
Ball Diff, Shaft Plate Set	0 0 0 1 X1 0 X2
Ball Diff, Ball Set	13 62 ×1 13 ×2 13 ×10 16 (7 ×12
Ball Diff. (Body)	●×1 others 4 pcs.
	others 1 pes,
	Silver Plate 2 nee
	Silver Plate 2 pcs.
	Yellow 2 pcs.
	2 pcs,
Low Profile Tire	for hard road surface x2
•	for soft road surface x2
Front Tire M-S	Soft Compound 2 pcs.
	core compound 2 pcs,
• M−H	Hand Comment of
2 88 830 850	Hard Compound 2 pcs.
. 9-9	Pin Spike
3-3	Soft Compound 2 pcs.
Low Pro. Tire SS-M	
→ MH-M	Multi Spike 2 pcs.
Hard Pinion Gear	Control Control Control Control Control
	Hard Aluminum
	Stronger Tune the (00)
	t
	3 9 9 9 9 0 × 2
Pressure Top Set	0.445
for Pressure Shock	®×10
O Ring Set	
for Pressure Shock	19 19 × 2 19 19 × 4
	Wheel Racing Wire Motor Cooling Plate Sponsor Sticker  Sponge Tire (A) Frontier Hobby Oil Silicon Oil (S)  (M) (H) Shock Oil (S,M,H), Mentenance Set Ball Diff, Shaft Plate Set Ball Diff, Ball Set Ball Diff, (Body) Adjustable Shock (S)  (L) Low Profile Wheel Low Profile Wheel Front Tire (A) Low Profile Tire  M—H  S—S  Low Pro, Tire SS—M MH—M  Hard Pinion Gear (15T~23T) Special Counter Gear Universal Swing Shaft Plastic Parts Set for Pressure Shock  Pressure Top Set for Pressure Shock  O Ring Set

## -The Super Hobby-



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