

RADIO CONTROLLED ELECTRIC POWERED SPECIAL RACING BUGGY.

**4WD OFF-ROAD RACER**

# **LAZER ZX**

- KYOSHO WORKS—MACHINE ENTERED IN THE IFMAR WORLD CHAMPIONSHIP CONTEST.
  - ULTRA LONG TRAVEL 4 WHEEL DOUBLE WISHBONE SUSPENSION PROVIDES OUT STANDING ROAD HOLDING CAPABILITY AND RUNNING ENDURANCE.
  - ADOPTED 3 DIFF. SYSTEM INCLUDING CENTER DIFF. AND ONE WAY CLUTCH.
  - DUAL BELT 4WD SYSTEM WITH MINIMUM DRIVE LOSS & HIGH DASH POWER.
  - IN ADDITION TO PRECISION BALL BEARINGS (15 PCS.), IT IS EQUIPPED WITH SPECIAL RACING COMPONENTS SUCH AS PRESSURE OIL SHOCKS ETC.
  - ADOPTED SUPER WEIGHT, HIGH RIGIDITY FRP PAN CHASSIS.
- 2 CHANNEL RADIO SYSTEM (WITH AMP.), 7.2V/8.4V (1200/1700mAh) NI-CAD BATTERY AND MOTOR ARE NOT INCLUDED.

**1:10 SCALE**



**KYOSHO**®  
THE FINEST RADIO CONTROL MODELS  
KIT NO.3146

BELT DRIVE  
**4WD**

**BEFORE YOU BEGIN ASSEMBLY !**

Thank you for purchasing the Kyosho's R/C 1/10 EP 4WD Off-Road Racer LAZER ZX". In order to keep your Lazer ZX in top condition to enjoy the most pleasure from the R/C world, you should thoroughly read this instruction manual and the operation instruction of the radio control units to keep the correct way of assembling.

### 《Kit Features》

- Kyosho works—machine entered in the IFMAR world championship contest.
- Ultra long travel 4 wheel double wishbone suspension provides out standing road holding capability and running endurance.
- Adopted 3 diff. system including center diff. and one way clutch.
- Dual belt 4WD system with minimum drive loss & high dash power.
- In addition to precision ball bearings (15 pcs.), it is equipped with special racing components such as pressure oil shocks etc.
- Adopted super weight, high rigidity FRP pan chassis.

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\*USING 8.4V NI-CAD BATTERY OR  
CHANGE TO OVAL ROAD RACER TYPE

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## BEFORE ASSEMBLY

○ 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.

○ Check the parts in the kit.  
Check to see if all the parts are  
correctly bagged as they are listed  
in the "Bagged Parts List" (page 4.5).  
Your thorough understanding of the  
assembly will enable you to build  
the kit without any difficulty.

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.

○ Learn the marks described in the instruction.

**SW CEMENT** ... Place to put some locktite.  
(It will prevent the screws and nuts to  
get loosen by vibration while running.)

**GREASE** ... Point where grease should  
be applied.  
(It will reduce friction and assure smooth  
movements.)

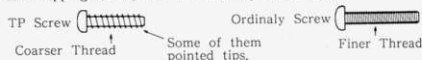
Steps where your  
particular attention  
is required.



Bagged Parts List

○ Be well aware of the different types of screws.

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



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



(There are two kinds of thread,  
finer and coarser ones.)

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

○ Be sure about the location and direction  
of parts to install.

Double-check the location and direction of  
parts with the illustration before installation.  
When necessary, 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. 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.

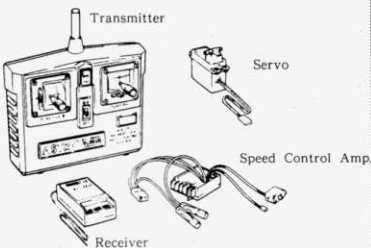
Over tighten may strip the thread in the plastic.



## 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.



### (Battery for Radio System)

For Transmitter...8 pcs.



### (Ni-Cad Battery)

No.2331  
7.2V-1200mAh  
SCR Saddle Pack

No.2310  
7.2V-1200mAh  
Sprint Battery SCR

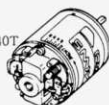
"Lazer ZX" is designed to  
use a rechargeable 7.2V  
Ni-Cad Battery Pack.



### (Motor)

The Lazer ZX not come with  
a motor. A Le Mans series type  
motor is recommended for top  
performance.

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



### (Charger for Ni-Cad Battery)

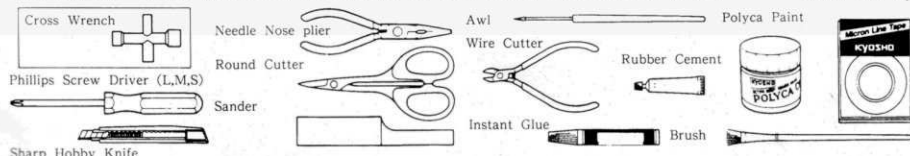
The Kyosho's Ni-Cad Battery is of high performance.  
If it is charged correctly, it will operate for a considerable period of time.

\* Use one of the Chargers listed below which suits your need.

No.	Name	Time	Rate	Features
2326	7.2V Power Charger (DC12V)	15 min.	70%	For Beginners Built-in Timer
1849	Multi Charger II (DC12V)	20 min.	100%	Timer, Ammeter built-in
2246	FET Auto-Charger (DC12V)	20 min.	100%	Trickle Charging Automatic cut-off at peak of charge

(Tools Required) A Allen Wrench, Cross Wrench, Grease and Screw Locking Compound are in the kit.

Micron Line Tape



## LIST OF BAGGED PARTS (1)

The key numbers with ★ indicated the plastic parts on a runner.  
See page 6.7 for the layout drawing.

(Do not throw away a bag header)

- The symbol in the brackets after a name of parts in this instruction is the header number in which the part is contained.
  - The header is the only thing to rely upon when looking for a part.
- Do not discard it until you finish the assembly.



Bag No.	Key #	Parts Name	Q'ty	Step
Blister	● 1	Front Shock Shaft	2	● Mark Pressure Shock Parts
	● 2	Rear Shock Shaft	2	
	● 3	Front Shock Case	2	
	● 4	Rear Shock Case	2	
	● 5	Front Shock Spring	2	
	● 6	Rear Shock Spring	2	
	● 7	Spring Holder	4	
	● 8	Shock Cap	4	
	● 9	Spring Stopper	4	
	● 10	Shock End	4	
	● 11	Shock Piston	4	
	● 12	Shock Collar (White)	4	
	● 13	Shock Collar (Black)	4	
	● 14	O Ring (P3 Red)	8	
	● 15	C Ring	4	
ZX-2	● 145	E Ring (E2.5)	8	● Mark Front & Rear Diff. Parts
	◎ 16	Diff. Case	2	
	◎ 17	Sprocket	2	
	◎ 18	Bevel Gear (A)	4	
	◎ 19	Bevel Gear (B)	4	
	◎ 20	Bevel Shaft	2	
	◎	M2x12 TP Screw	8	
	21	Main Gear	1	
	22	Front Drive Hub	1	
	23	Rear Drive Hub	1	
	24	Universal Swing Shaft	2	
	25	Front Drive Belt	1	
	26	Rear Drive Belt	1	
	27	Front Axle Box (A)	1	
	28	Front Axle Box (B)	1	
	29	Rear Axle Box (A)	1	
	30	• (B)	1	
	31	• (C)	1	
	32	• (D)	1	
	33	Drive Pulley	2	
	34	Pulley Flange	2	
	35	M3x25 Shaft	1	
	36	Needle Roller Shaft	3	
	37	Needle Roller	4	
	38	Thrust Bearing	1	
	39	4 φ Thrust Washer	2	
	40	Thrust Ball	15	
	41	Thrust Plate	2	
	42	4 φ x8 Plain Bearing	1	
	43	5 φ x10 Ball Bearing	8	

Bag No.	Key #	Parts Name	Q'ty	Step
ZX-2	44	8 φ x14 Ball Bearing	6	4 5 6
ZX-3	45	Front Wheel	2	7
	46	Rear Wheel	2	7
	47	Steering Shaft	2	9
	48	King Pin (L)	2	10
	49	King Pin (S)	2	10
	50	Main Gear Shaft	1	5
	51	Guide Plate	1	5
	52	Servo Saver Shaft	2	7
	53	3 φ x6 Flange Plain Bearing	2	9
	54	5.8 φ Ball (Silver)	10	1 2
ZX-4	55	5.8 φ Ball (Black)	8	1
	56	Limiter Collar	2	5 6
	57	Upper Deck Post	1	7
	58	Pressure Top	4	2
	59	4 φ x8 Collar	1	5
	100	Limiter Nut	1	5
	★ 156	Shock Collar (B) (Red)	8	10 20 spare x4
	157	Pinion Gear (20T)	1	2
		M3x18 Cap Screw	4	10 10
	60	Motor Plate (L)	1	5 5
ZX-5	61	• (S)	1	5
	62	Side Plate (L)	1	5
	63	Servo Mount Plate	1	20
	64	Steering Plate	1	9
	65	Front Shock Stay	1	10
	66	Rear Shock Stay	1	10
	★ 67	Rear Hub (R)	1	17
	★ 68	Rear Hub (L)	1	17
	★ 69	Front Hub	2	17
	★ 70	Bumper	1	15
ZX-6	★ 71	Front Arm Bracket (A)	1	10
	★ 72	• (B)	1	10
	★ 73	Rear Arm Bracket (A)	1	7
	★ 74	• (B)	1	10
	★ 75	• (C)	1	24 Page
	★ 76	Antenna Post	1	7
	★ 77	Servo Stay (S)	2	20
	★ 78	• (L)	2	20
	★ 79	Shock Collar (A)	4	10 20
	★ 80	Upper Rod End	2	1
	★ 81	Uni Crank Collar (B)	2	10
	★ 82	Wing Stay (A) (R)	1	20
	★ 83	• (L)	1	20
	★ 84	Wing Stay (B)	2	20

## LIST OF BAGGED PARTS (2)

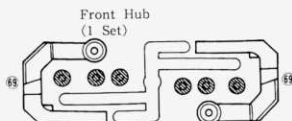
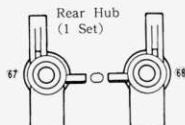
Bag No.	Key #	Parts Name	Step
ZX-6	★ 85	Wing Stay joint	2 <b>21</b>
	★ 86	Wing Washer	4 <b>37</b> Spare2
	★ 87	Uni Crank (A)	1 <b>9</b>
	★ 88	• (B)	1 <b>9</b>
	★ 89	• (C)	1 <b>9</b>
	★ 90	Uni Crank Collar (A)	2 <b>10</b>
	★ 91	Servo Saver	1 <b>27</b>
	★ 92	Saver Ring	1 <b>27</b>
	★ 93	Saver Horn (SL)	1 <b>27</b>
	★ 94	• (SS)	1 <b>27</b>
	★ 95	• (F)	1 <b>27</b>
	★ 96	Saver Washer	1 <b>27</b>
	★ 97	Stopper Post	4 <b>11</b>
ZX-7	★ 98	Stopper Washer (S)	4 <b>11</b>
	★ 99	• (L)	4 23 Page <sup>Spare x3</sup>
	101	3 φ x50 Shaft	2 <b>10</b>
	102	3 φ x55 Shaft	2 <b>10</b>
	★103	5,8 φ Ball End	12 <b>1</b>
	104	Hub Pin	4 <b>10 10</b>
	105	Rod (L30)	3 <b>1</b>
	106	• (L40)	2 <b>1</b>
	107	• (L51)	2 <b>1</b>
	108	Rear Wheel Shaft	2 <b>7</b>
	109	Drive Washer	4 <b>22</b>
	110	Joint	4 <b>2</b>
	111	Swing Shaft	2 <b>19</b>
ZX-8	112	Knuckle Arm (R)	1 <b>19</b>
	113	• (L)	1 <b>19</b>
	114	5 φ x8 Plain Bearing	4 <b>9</b>
	115	Saver Spring	1 <b>27</b>
	★116	Front Sus, Arm	2 <b>10</b>
	★117	Rear Sus, Arm	2 <b>10</b>
	★118	Belt Cover (A)	1 <b>13</b>
	★119	• (B)	1 <b>13</b>
	★120	• (C)	1 <b>13</b>
	★121	Rear Bulk Head	1 <b>0</b>
	★122	Upper Deck Mount (A)	1 <b>7</b>
	★123	• (B)	1 <b>7</b>
	★124	Mount Collar (A)	1 <b>11</b>
ZX-8	★125	• (B)	1 23 Page
	125	Stopper Plate (S)	2 <b>32</b>
	126	• (L)	1 <b>32</b>
	127	Upper Deck (S)	1 <b>11</b>
	128	• (L)	1 <b>11</b>
	129	Gear Cover	1 <b>33 22</b>
	130	Antenna Pipe	1 <b>31</b>
	131	Ni-Cad Strap	2 <b>32</b>
	132	Double Sided Tape	2 <b>30 31 32 31</b>
	133	Shock Oil Green	1 <b>2</b>
	134	Strap (S)	3 <b>30 31</b>
	135	Silicone Grease	1
	136	Screw Locking Compound	1
	137	Velcro	1 Set <b>35</b>

Bag No.	Key #	Parts Name	Q'ty	Step
<b>ZX-8</b>	159	Cross Wrench	1	<b>5</b>
Box	138	Main Chassis	1	<b>7</b>
	139	Front Tire	2	<b>20</b>
	140	Rear Tire	2	<b>20</b>
	141	Body (Lazer ZX)	1	<b>88</b>
	142	Wing	1	<b>88</b>
	143	Under Cowl	1	<b>88</b>
	144	Decal (Lazer ZX)	1	<b>88</b>
		Instruction	1	
ZX-1	145	E Ring (E2,5)	5	<b>10 10</b> Spare x1
	146	• (E3)	2	<b>5</b> Spare x1
	147	Hook Pin	4	<b>55 17</b>
	148	Body Pin	4	<b>55 17</b>
	149	Allen Wrench (1,5)	1	<b>6 22</b>
	150	• (2)	1	<b>4</b>
	151	• (2,5)	1	<b>10 11</b>
	152	Wave Washer	4	<b>5</b>
	153	4 $\phi$ x6,5 Shim	1	<b>6</b>
	154	5 $\phi$ x8,5 Shim	6	<b>17 17</b>
	155	8 $\phi$ x12 Shim	1	<b>5</b>
		M3x4 Round Head Screw	4	
		M3x6 Bind Screw	5	
		M3x12 Bind Screw	4	
		M3x30 Bind Screw	3	
Screws, Nuts, Washers & Others		M3x35 Bind Screw	1	
		M3x45 Bind Screw	2	
		M4x8 Bind Screw	5	
		M2,6x12 Flat Head Screw	8	
		M3x6 Flat Head Screw	4	
		M3x12 Flat Head Screw	6	
		M3x18TP Round Head Screw	2	
		M2,6x12 TP Bind Screw	5	
		M3x8 TP Bind Screw	6	
		M3x10 TP Bind Screw	9	
		M3x12 TP Bind Screw	2	
		M2,6x6TP FlatHeadScrew	1	
		M3x10TP FlatHeadScrew	22	
		M3x12TP FlatHeadScrew	4	
		M3x15TP FlatHeadScrew	2	
		M2,6 Nut (3 kinds)	11	
		M3 Nut	6	
		M2,6 Nylon Nut	2	
		M3 Nylon Nut	5	
		M4 Nylon Nut	4	
		M3x3 Set Screw	2	
		M4x4 Set Screw	4	
		M2,6 Washer (Black)	3	
		M3 Washer	4	
		M4 Washer	4	
		5 Washer	4	

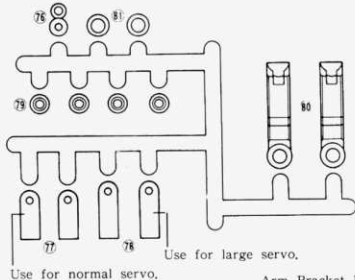
 These shaded parts are not used.

Shock Piston & Shock Collar  
(4 Sets)

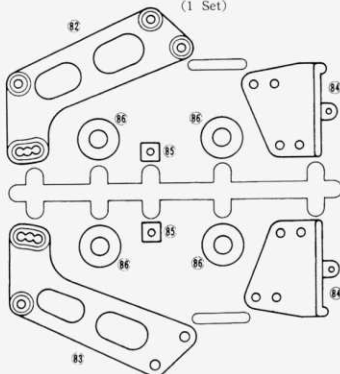
\*Use to change the hardness  
of shock. (See page 23)



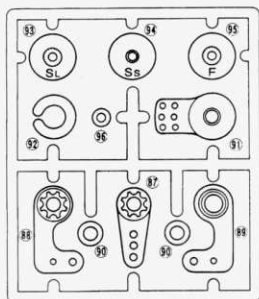
Upper Rod End Parts  
(1 Set)



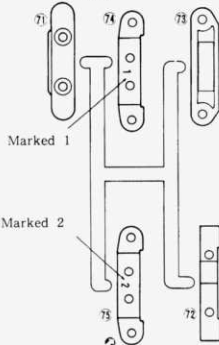
Wing Stay Parts  
(1 Set)



Servo Saver & Uni Crank Parts  
(1 Set)

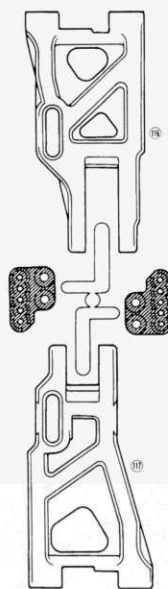


Arm Bracket Parts  
(1 Set)

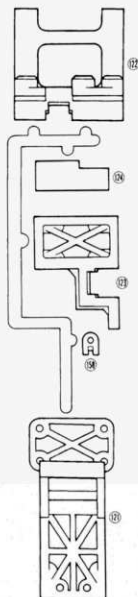


Use to increase the amount  
of toe-in. (See page 24)

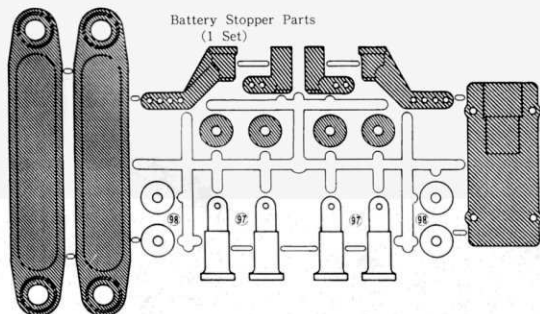
Sus. Arm Parts  
(2 Sets)



Upper Deck Mount Parts  
(1 Set)



Battery Stopper Parts  
(1 Set)



## Belt Cover Parts (1 Set)

**1 ~ 25**

- Screw in the ball ends, identifying the length with the actual size drawing.
- 5,8  $\phi$  balls are in bag [ZX-4].

1) Screw in the ball end.

- Tie Rod,,2 pcs.

5.8  $\phi$  Ball

(ZX-7)

- Rear Upper R

\_\_\_\_\_

⑪ Rod (L51)  
[ZX-7]

- Rear Upper Rod...2 pcs.

- Steering Rod...1 pc.

5.8  $\phi$  Ball (Black)



5.8  $\phi$  Ball  
(Black)

⑧ Upper

- Front Upper Rod...2 pcs

5,8  $\phi$  Bal

④ 5.8  $\phi$  Ball

● Rod (L30)  
[ZX-7] 《Adjustment of Length》  
Perform with the amount of  
ball end screwed in or out.  
Screw In...Become Short  
Loosened...Become Long

2) Installing location and actual size drawing of each rod.

- Steering Rod  
Installed with  
step 9.

\* Adjustment of length  
in step 24.

- Front Upper Rod  
Installed with  
step 13.

- Rear Upper Rod Installed with step 18.

10.5mm

- Tie Rod Installed with step 9.

—25.5m

NO. 3146

## 2 FILLING THE SHOCK OIL

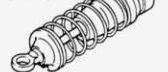
Pressure shocks are in blister pack.(Assembly)  
Remove the shock spring and shock cap to fill the shock oil.



At each assembly stage, a drawing shows screws and other fasteners used in the actual size. Identify those required in each stage.

{Front}  
Pressure Shock (S)

(Short)



{Rear}  
Pressure Shock (L)

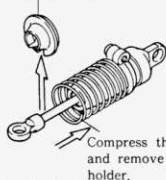
(Long)



Remove the shock spring .....  
and shock cap.

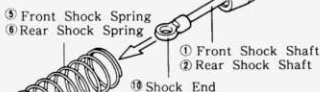
1

(7) Spring Holder



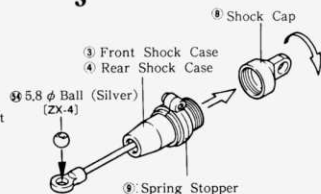
Compress the spring  
and remove the spring  
holder.

2



(5) Front Shock Spring  
(6) Rear Shock Spring  
(1) Front Shock Shaft  
(2) Rear Shock Shaft  
(10) Shock End

3



(9) Shock Cap  
(3) Front Shock Case  
(4) Rear Shock Case  
(8) 5.8 φ Ball (Silver) (ZX-4)  
(6) Spring Stopper

Fill the shock oil.....

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.

2

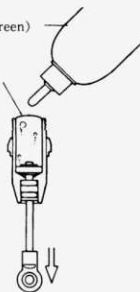
Keep the piston in the lowest position  
and tight 8 gradually, then excessive  
oil will run over.

3

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

(9) Shock Oil (Green)  
(ZX-8)

Fill the cylinder  
to slightly above  
brim.



{Assembly of shock head}  
(8) Pressure Top (ZX-4)  
(9) Shock Cap

Fit it into  
the groove  
firmly.



In the end, tighten it  
firmly so that the oil  
will not leak out.



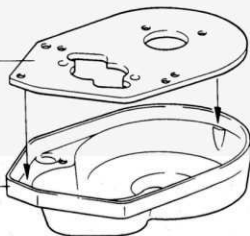
It should move without  
any binding.

## 3 CUTTING GEAR COVER

1

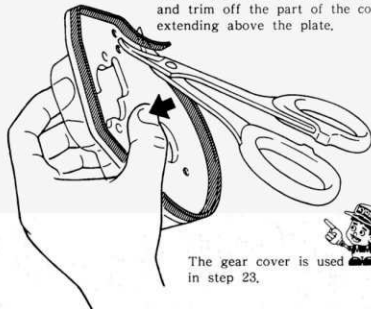
(8) Motor Plate (L) (ZX-5)

(9) Gear Cover  
(ZX-8)



2

Put the motor plate into the gear  
cover, hold them together firmly,  
and trim off the part of the cover  
extending above the plate.

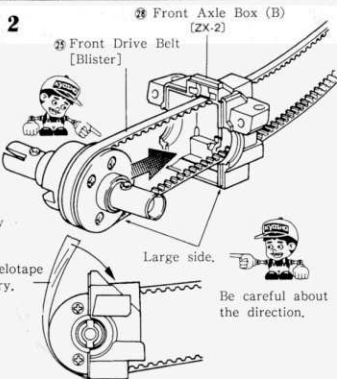
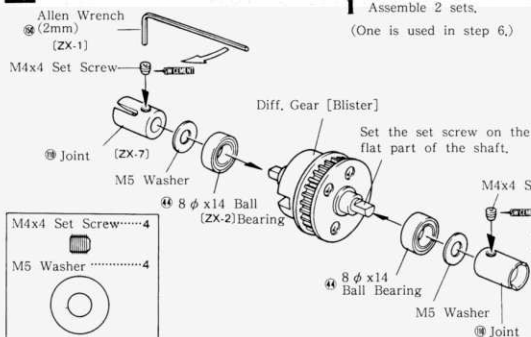


The gear cover is used  
in step 23.



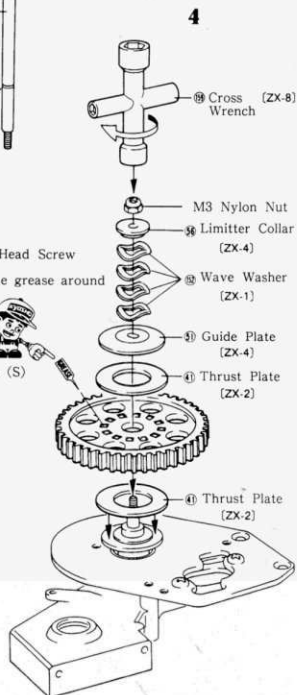
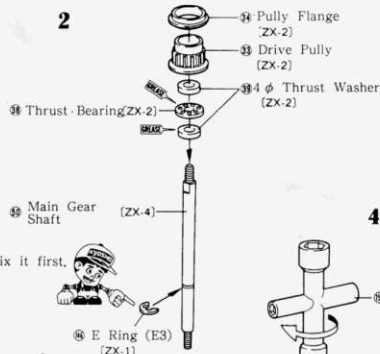
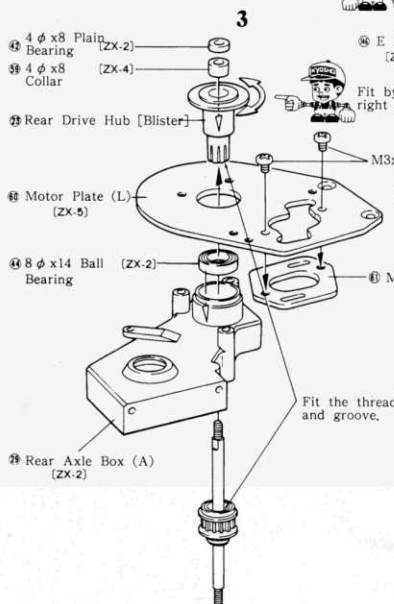
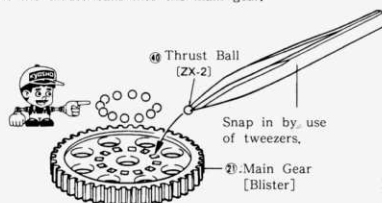


## 4 INSTALLATION OF FRONT DIFF.



## 5 ASSEMBLY OF MAIN SHAFT

1 Fit the thrust balls into the main gear.



# 6 ASSEMBLY OF REAR AXLE BOX

1

M3x10 TP Bind Screw	1	M3x45 Bind Screw	2
M3x18 TP Round Head Screw	2	M3x35 Bind Screw	1
M3x30 Bind Screw	1	M3x3 Set Screw	1
Needle Roller Shaft	2	4 φ x6.5 Shim	1
Needle Roller	3	8 φ x12 Shim	1
Limit Nut	1		

Assemble in order from ①~⑤

③ Rear Axle Box (B) (ZX-2)

③ Rear Drive Belt [Blister]

③ Needle Roller (ZX-2)

Hit gently with screw driver's head till the end.



The nut is locked by tightening the set screw with holding the nut.  
\*See page 23 for a provisional assemble and adjusting.

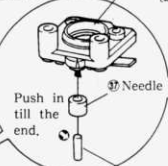
2

- M3x3 Set Screw
- ③ Limit Nut (ZX-4)
- ③ Limit Collar (ZX-4)
- ③ Front Drive Hub [Blister]
- ③ 8 φ x14 Ball Bearing (ZX-2)
- ③ 8 φ x12 Shim (ZX-1)
- M3x10 TP Bind Screw
- \*Be careful about the direction.
- ③ Pulley Flange (ZX-2)
- ③ Front Drive Belt
- ③ Drive Pulley (ZX-2)

Fit it by moving right and left.



③ Rear Axle Box (C) (ZX-2)



Push in till the end.

③ Needle Roller (ZX-2)

③ Needle Roller Shaft (ZX-2)

③ Side Plate (L) (ZX-5)

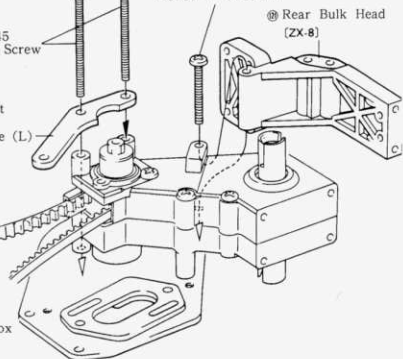
3

③ Needle Roller Shaft (ZX-2)  
Push in till the end.



M3x30 Bind Screw

③ Rear Bulk Head (ZX-8)



M3x45 Bind Screw

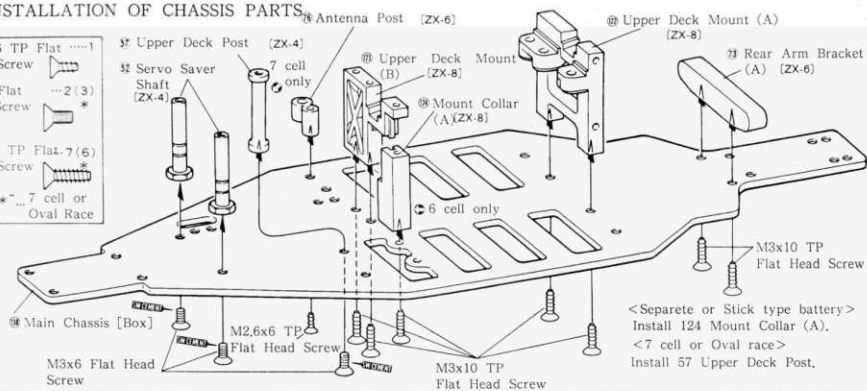
M3x18 TP Round Head Screw

③ Rear Axle Box (D) (ZX-2)

(Assembled View)

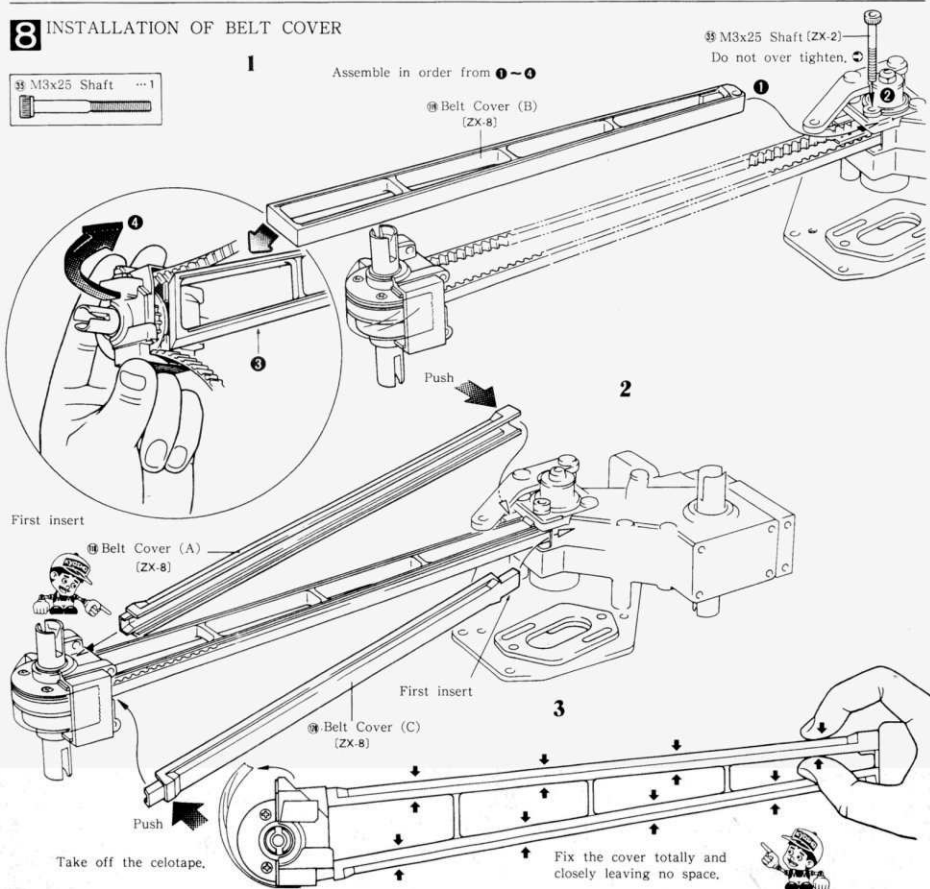
## 7 INSTALLATION OF CHASSIS PARTS

- M2,6x6 TP Flat Head Screw ..... 1  
 M3x6 Flat Head Screw ..... 2 (3)  
 M3x10 TP Flat Head Screw ..... 7 (6)  
 Mark "\*" ..... 7 cell or Oval Race

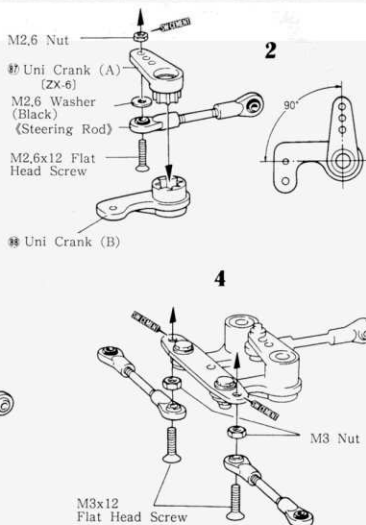
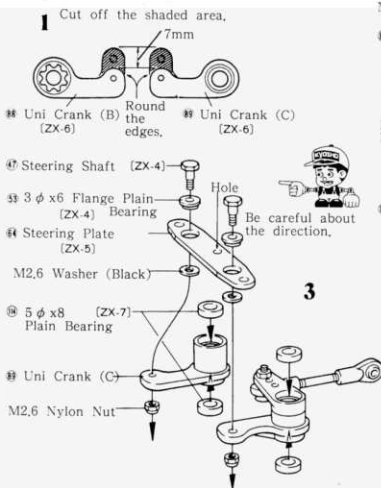


## 8 INSTALLATION OF BELT COVER

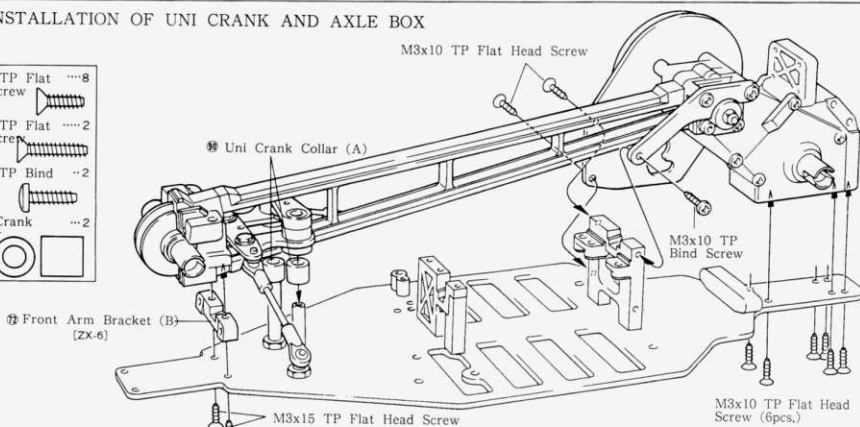
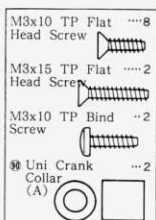
- M3x25 Shaft (ZX-2) ..... 1



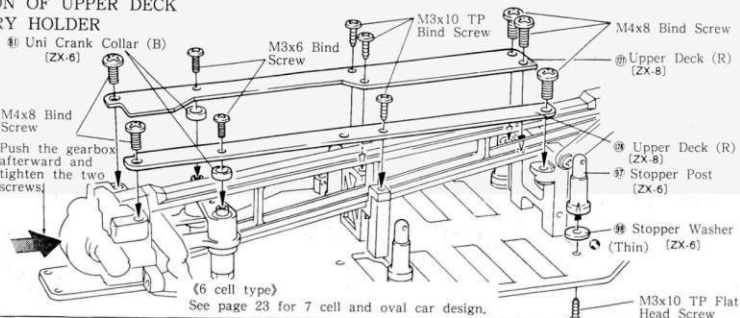
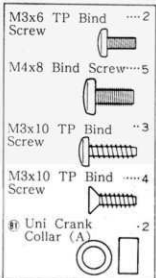
## 9 ASSEMBLY OF UNI CRANK



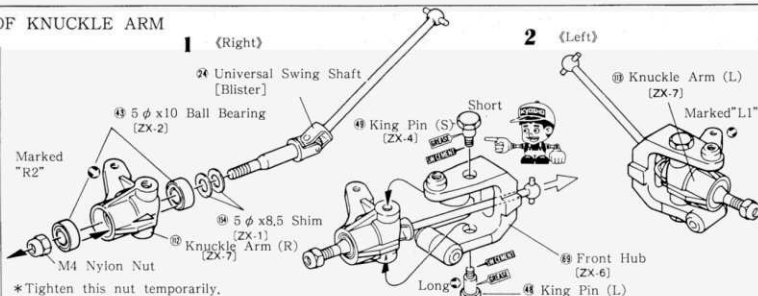
## 10 INSTALLATION OF UNI CRANK AND AXLE BOX



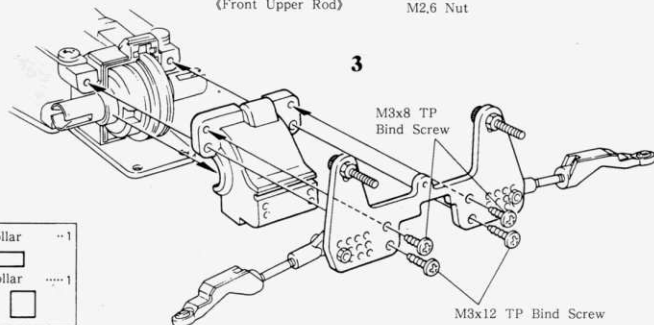
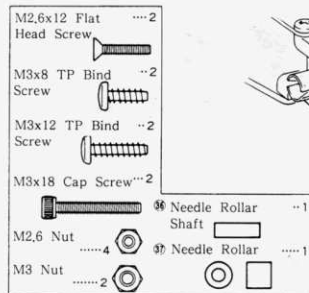
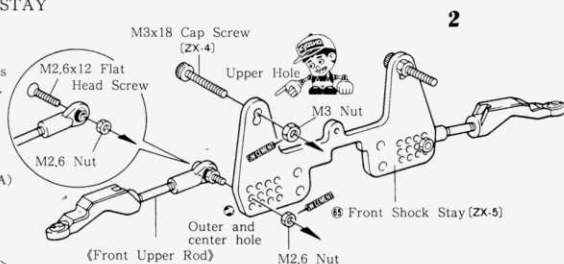
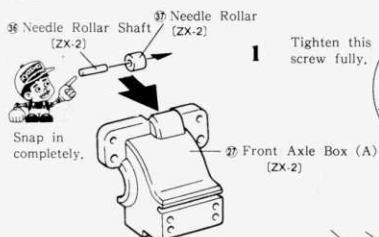
## 11 INSTALLATION OF UPPER DECK AND BATTERY HOLDER



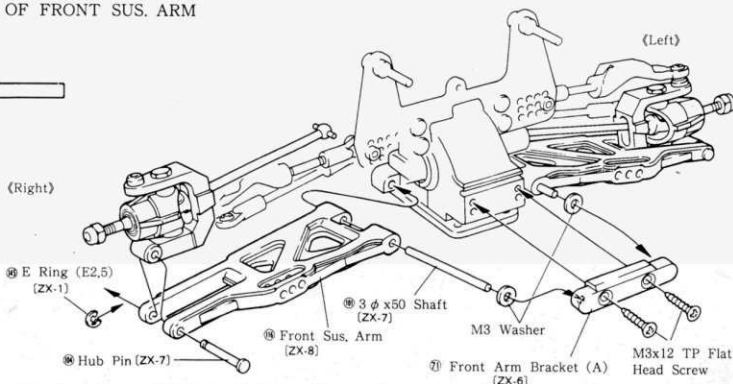
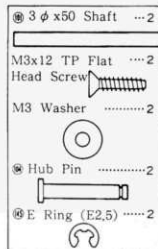
## 12 ASSEMBLY OF KNUCKLE ARM



## 13 INSTALLATION OF FRONT SHOCK STAY



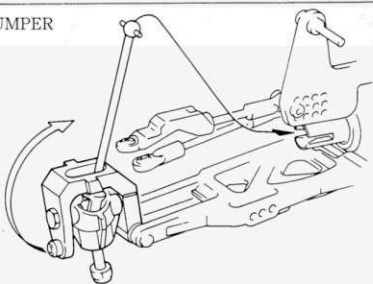
## 14 INSTALLATION OF FRONT SUS. ARM



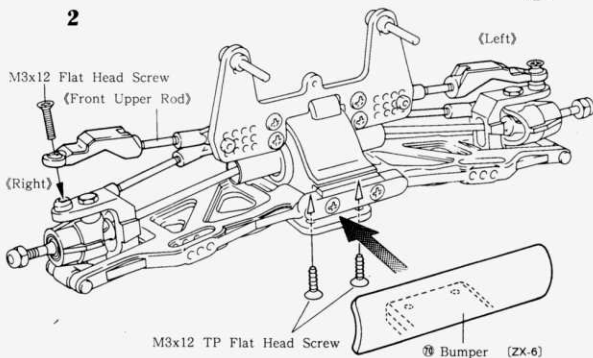
## 15 INSTALLATION OF KNUCKLE ARM AND BUMPER

M2.6x12 Flat Head Screw	.....2
M3x12 Flat Head Screw	.....2
M3x12 TP Flat Head Screw	.....2

1 (Right)

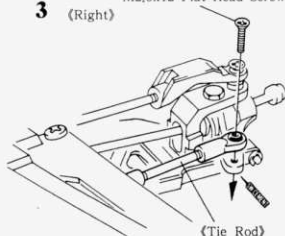


2



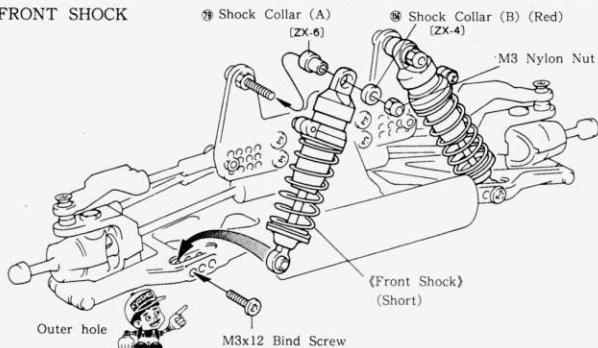
3 (Right)

M2.6x12 Flat Head Screw



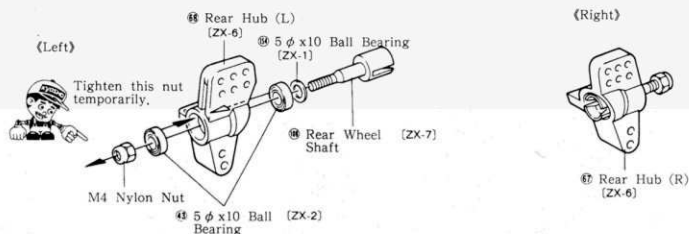
## 16 INSTALLATION OF FRONT SHOCK

M3x12 Bind Screw	.....2
M3 Nylon Nut	.....2
Shock Collar (A)	.....2
Shock Collar (B) (Red)	.....2



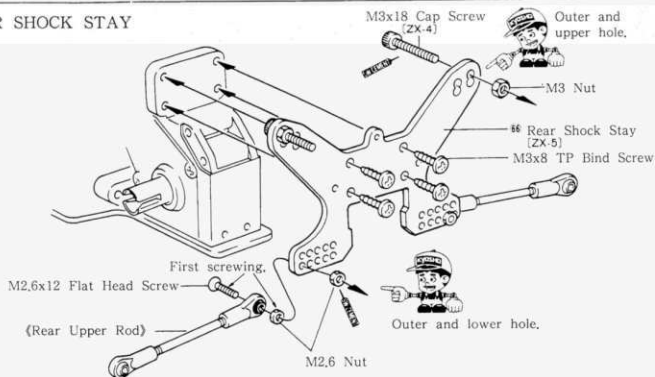
## 17 ASSEMBLY OF REAR HUB

M4 Nylon Nut	.....2
5 φ x10 Ball Bearing	.....4
5 φ x8.5 Shim	.....2



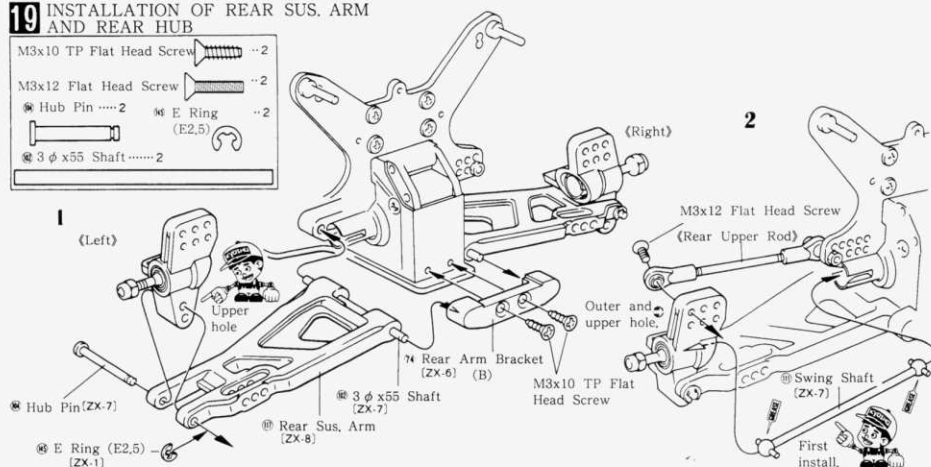
## 18 INSTALLATION OF REAR SHOCK STAY

M2,6x12 Flat Head Screw	2
M3x8 TP Bind Screw	4
M3x18 Cap Screw	2
2,6 Nut	4
M3 Nut	2



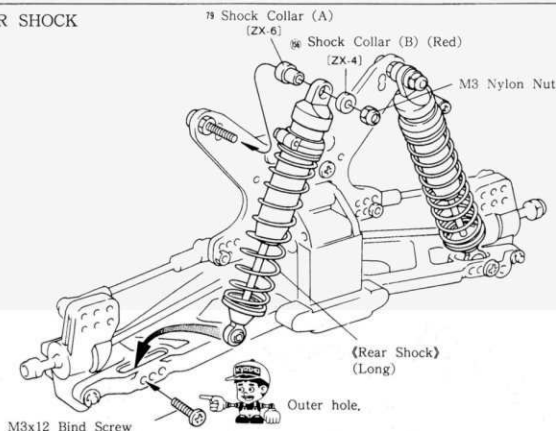
## 19 INSTALLATION OF REAR SUS. ARM AND REAR HUB

M3x10 TP Flat Head Screw	2
M3x12 Flat Head Screw	2
Hub Pin	2
E Ring (E2,5)	2
3 φ x55 Shaft	2

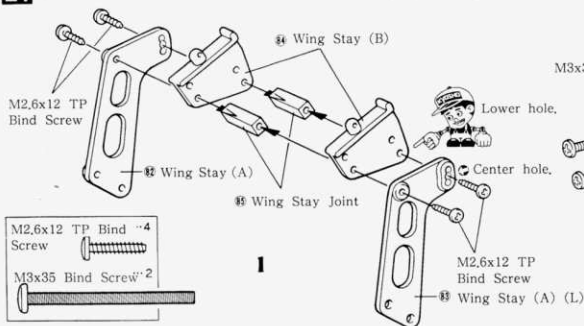


## 20 INSTALLATION OF REAR SHOCK

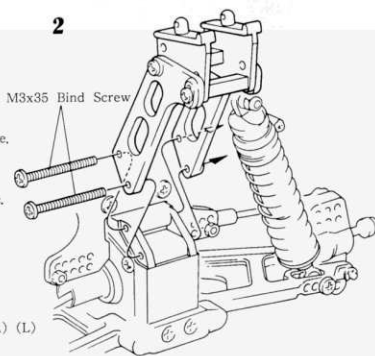
M3x12 Bind Screw	2
M3 Nylon Nut	2
Shock Collar (A)	2
Shock Collar (B) (Red)	2



## 21 ASSEMBLY AND INSTALLATION OF WING STAY



2



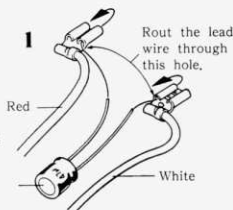
## 22 INSTALLATION OF MOTOR CORD

\*Motor (Not included)

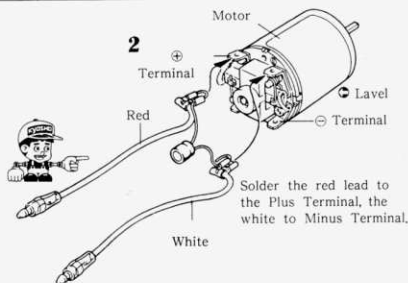
- SPA 240WS
- Le Mans H240S
- Le Mans Pro Hi-Torque
- Le Mans Hi-Speed
- Le Mans Speed 240T

Motor Cord (Red, White)...1 set

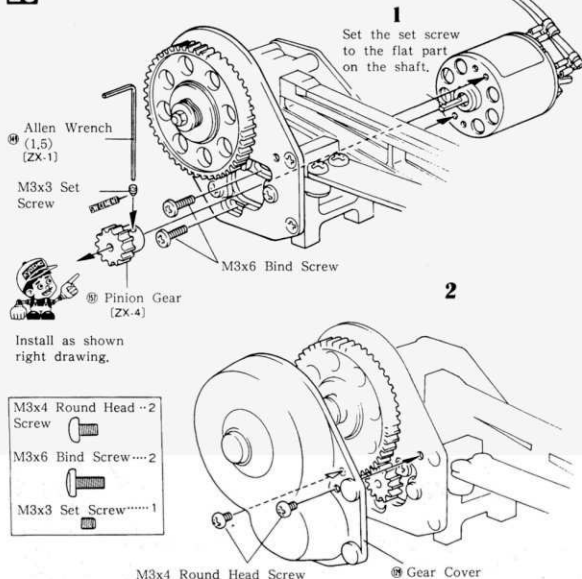
Electronics  
Condenser



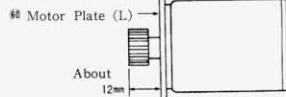
2



## 23 INSTALLATION OF MOTOR AND GEAR COVER



(Pinion Gear)



(Adjustment of Backlash)

1

Insert an empty parts bag between the gears and press the pinion gear strongly then tighten the two screws for the motor installation.

Motor installing screws.

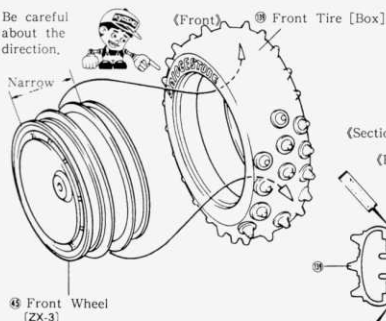
2

Turn the main gear and take off the parts bag.

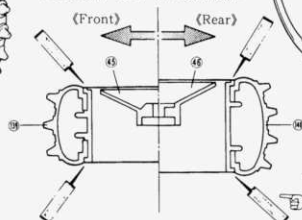


## 24 ASSEMBLY OF TIRE AND WHEEL

Be careful about the direction.



(Sectional View of Assembly)



④ Rear Wheel [ZX-3]

(Rear) ⑨ Rear Tire [Box]

After fitting them together completely, pour instant glue along the seam.

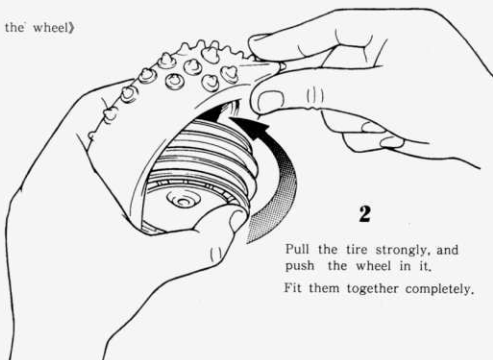
### 1 (How to set the wheel)

Set the wheel into the tire about half.



### 2

Pull the tire strongly, and push the wheel in it. Fit them together completely.



## 25 INSTALLATION OF TIRE

(Front) (Right)

\*Be careful about the orientation, the bigger hole should be inside.

Align the hexagonal points.



M4 Nylon Nut

⑤ Drive Washer [ZX-7]

M4 Nylon Nut .....4



M4 Nylon Nut

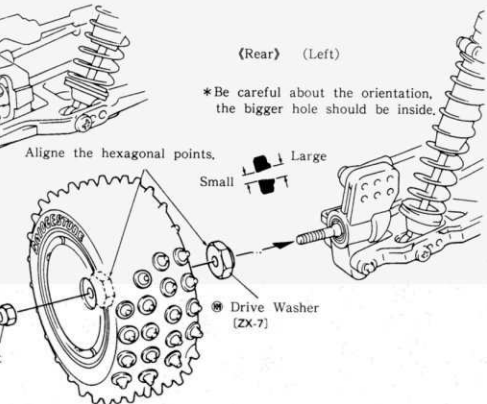
(Rear) (Left)

\*Be careful about the orientation, the bigger hole should be inside.

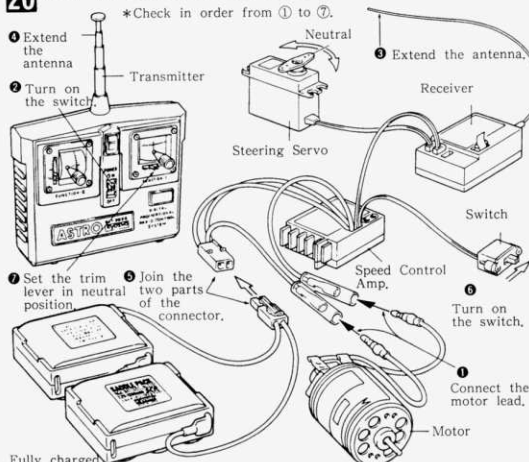
Align the hexagonal points.



⑤ Drive Washer [ZX-7]



## 26 HOW TO CHECK RADIO UNIT



Fully charged Ni-Cad battery.

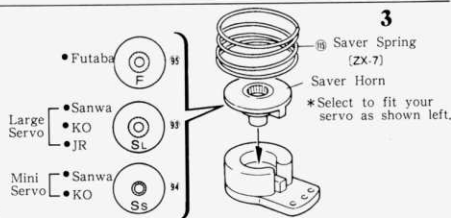
<The Lazer ZX is designed to use speed control amp.>  
A two channel radio is composed of things like a transmitter, receiver and servos.

- \*Transmitter... It is control box which manipulates by stick movements. Signal waves are transmitted through an antenna.
- \*Receiver... Receives the signals from the transmitter and send them to the servos.
- \*Servo... They move the control mechanism of a model car in accordance with the signals from the receiver.
- \*Antenna... An antenna on the transmitter sends signals, and one on the receiver accepts them. They should be fully extended.
- \*Trim Lever... They will adjust the neutral position of servos, thus regulate the steering and advancing controls finely.
- \*Battery ... Meter You can tell the amount of electricity in a battery and how the signals are emitted
- \*Servo ... Horn They are intermediate devices on the servos to activate the controls. There are several types in shape, they should be selected depending upon your usage.

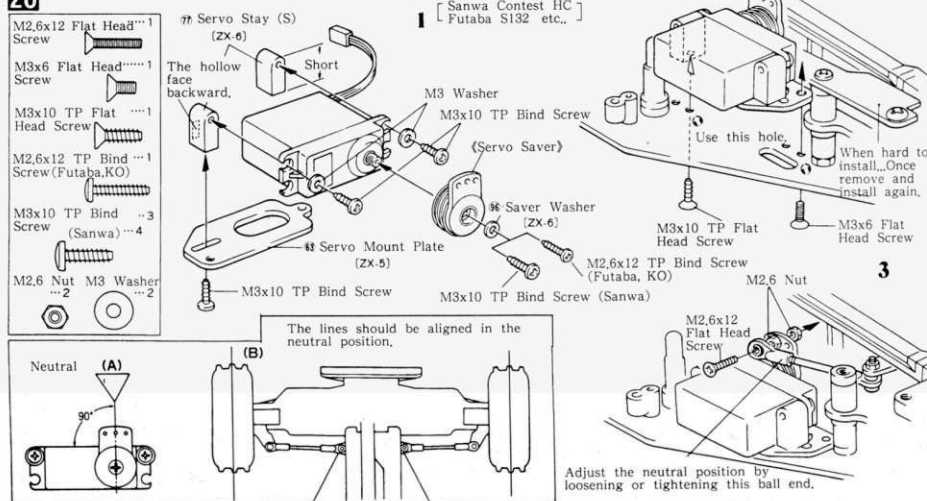
- When switch on the radio... Get the switches in order from transmitter to receiver.
- When switch off the radio... In order from receiver to transmitter.

## 27 ASSEMBLY OF SERVO SAVER

These parts used in this step are in bag [ZX-6].



## 28 STEERING LINKAGE (NORMAL SERVO) .....Sanwa, Futaba, KO (Normal servo)

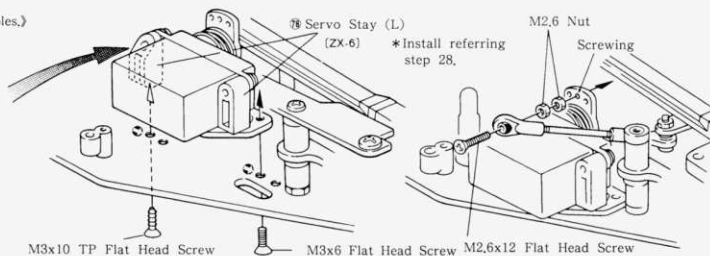
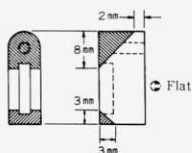


## 29 STEERING SERVO LINKAGE (LARGE SERVO) ....KO FET Servo PS-87, Futaba S-131H etc.

- \*Install the servo to the front holes.
- When the servo hit the body install the rear holes as shown below.

(When install to the rear holes,)

Cut off the shaded area of this servo stay.

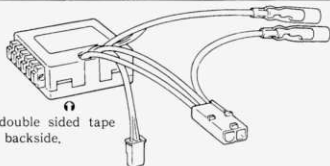


## 30 INSTALLATION OF SPEED CONTROL AMP.



Clean oil, fingerprints, etc., from case.

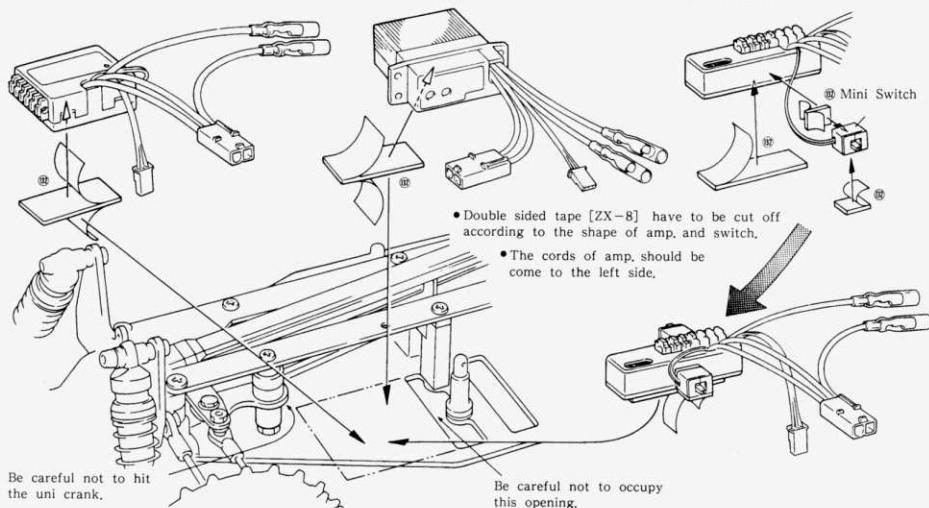
Apply double sided tape on the backside.



(Small Type)

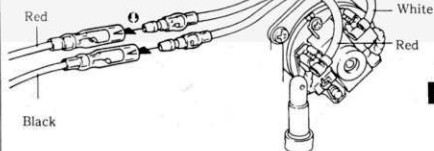
(Servo Type)

(Oblong Type)



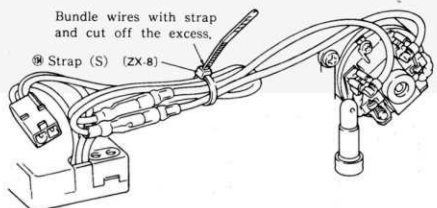
(Connect the motor connector)

Connect the lead red to red, and white to black.

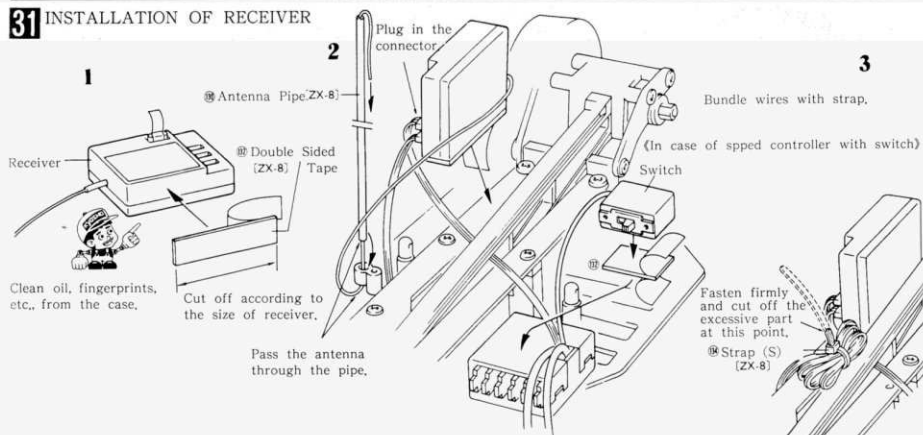


Bundle wires with strap and cut off the excess.

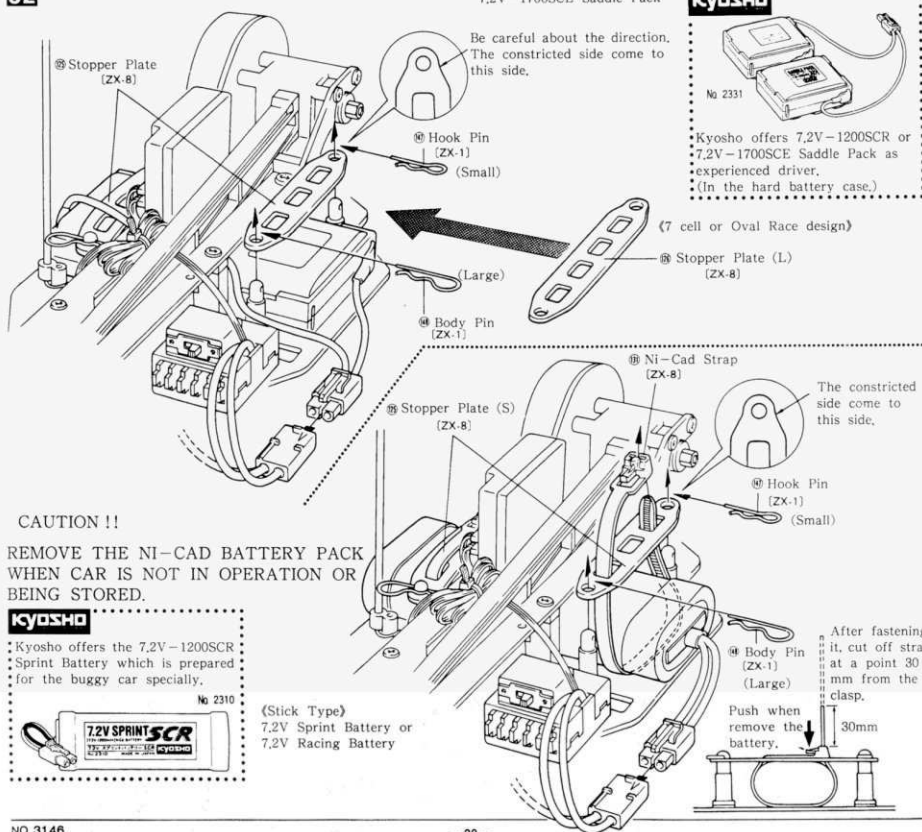
Ⓢ Strap (S) (ZX-8)



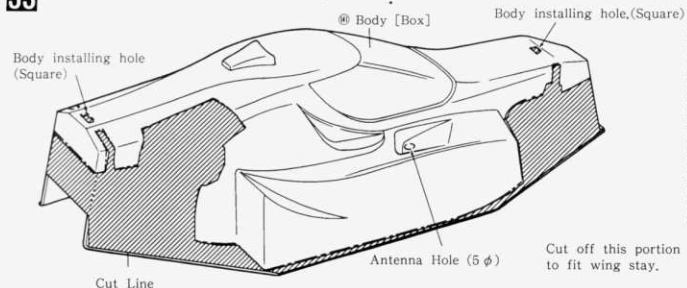
## 31 INSTALLATION OF RECEIVER



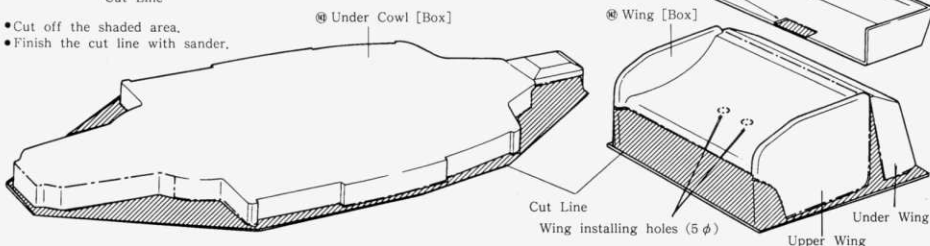
## 32 INSTALLATION OF BATTERY • Separate type (6 cell) 7.2V-1200SCR Saddle Pack or 7.2V-1700SCE Saddle Pack



### 33 CUTTING BODY, UNDER COWL, AND WING



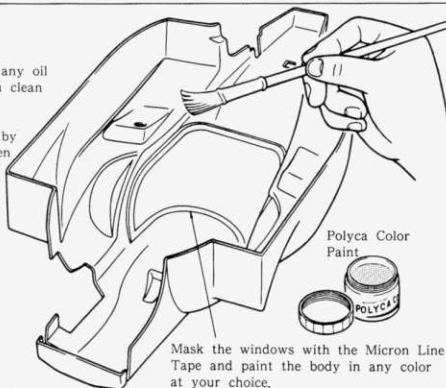
- Cut off the shaded area.
- Finish the cut line with sander.



### 34 PAINTING

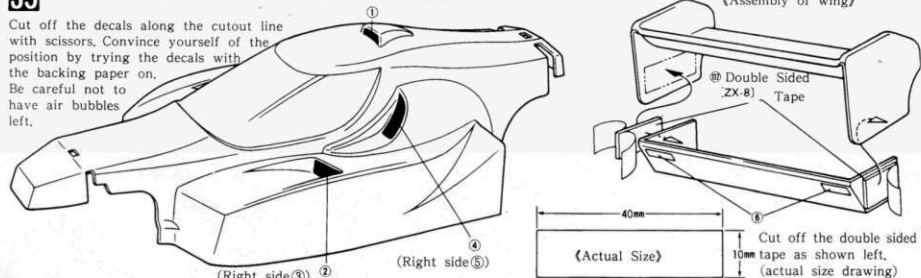
First wash the body to remove any oil or dirt and rinse thoroughly with clean water.

Paint the inside of body. You can obtain a color scheme by masking a portion with tape then removing the tape and painting. Apply the lightest color last.



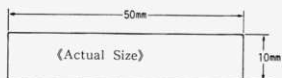
### 35 ASSEMBLY OF WING AND APPLYING DECAL

Cut off the decals along the cutout line with scissors. Convince yourself of the position by trying the decals with the backing paper on. Be careful not to have air bubbles left.



## 36 APPLYING VELCRO

- 1 Cut off 4 pcs. of velcro according to the actual size drawing.



⑧ Velcro [ZX-8] --- 1

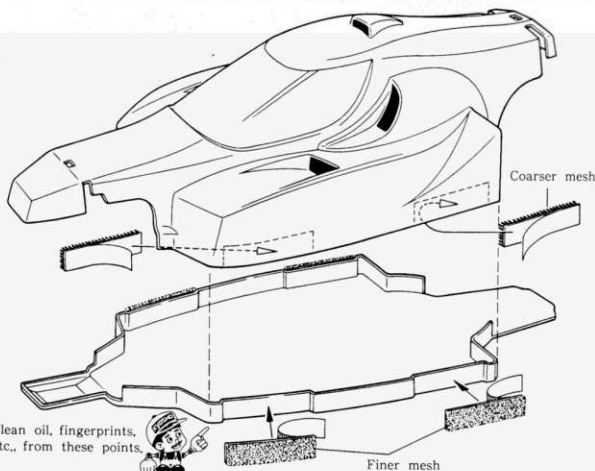
The piece with coarser mesh  
(For Body)

The piece with finer mesh  
(for Under Cowl)

- 2 First apply 4 pcs. with finer mesh to the under cowl.

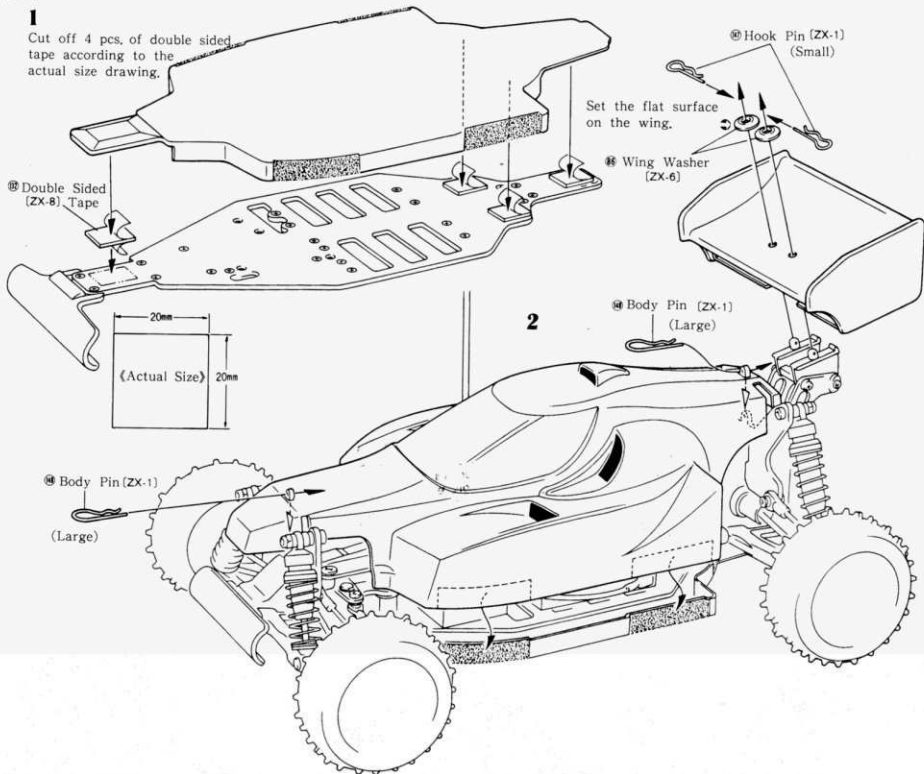
- 3 Apply 4 pcs. with coarser mesh to the body.

Clean oil, fingerprints, etc., from these points.



## 37 INSTALLATION OF UNDER COWL, BODY, WING

- 1 Cut off 4 pcs. of double sided tape according to the actual size drawing.

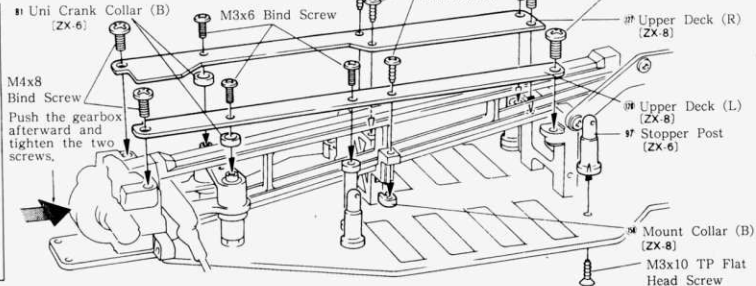


# 《7 CELL, OVAL RACE DESIGN》 INSTALLATION OF UPPER DECK AND BATTERY HOLDER

《Cutting Chassis》

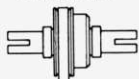
Cut off the shaded area.

These shaded parts are not used.



## GUIDE FOR SET UP (1) 《DRIVE UNIT》

<Front Diff.>



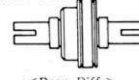
Front Drive Belt

\*Change front and rear belt to new ones periodically.

Limiter Nut

<Front Drive Hub>

Rear Drive Belt



<Rear Diff.>

<Center Diff.>

Type 1 This type will control the rear torque by tighten or loosen the M3 Nylon nut.

Loosening Weak (Under Steering) ..... M3 Nylon Nut ..... Tightening Strong (Over Steering)

Type 2 If rear torque is needed more, then use OT-88 Gear protector washer. Put this washer between the main gear and thrust plate.

Type 3 This type will control the front torque by tighten or loosen the M3 Nylon nut. Rear is fully locked by one way bearing.

Loosening Weak (Over Steering) ..... M3 Nylon Nut ..... Tightening Strong (Under Steering)  
 ◎Select type 1~3 to fit to the condition of track surface.

Slippy Type 1 ..... Track Condition ..... High Grip  
 ..... TYPE2 ..... Type 3

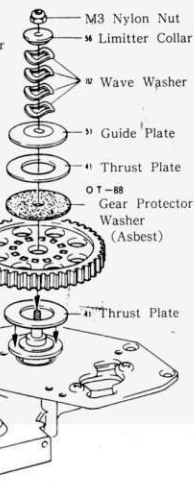
<Front Drive Hub>

Steering response can be changed by tighten or loosen the limiter nut shown in figure on left.

Loosening Quick (High Grip Surface) ..... Limiter Nut ..... Tightening Slow (Slippy Surface)  
 ..... Steering Response

<Option>

Possible to install ball differential for front and rear. Use Ball diff, pulley, Ball diff, flange in bag [ZX-2] with option parts WBD-1 Ball diff, shaft plate set and WBD-2 Ball diff, ball set together. Each combination set is required for front and rear installation.



### {Adjustment of Diff. Gear}

This model's diff. is gear type, and adjustable by the oil amount and hardness of the oil.

To make hard...Use 1956 silicone oil (Super Hard) a little bit more than usual.

To make softer...Mix 10~20% of the silicone oil (H) with diff. oil.

### {Steering Response}

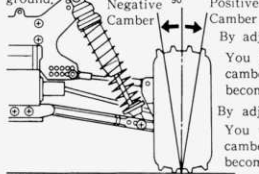
	Low Speed Corner	High Speed Corner
Front Diff.(Hard)	Neutral Steer	Under Steer
Rear Diff.(Hard)	Under Steer	Over Steer
Front, Rear (Soft)	Over Steer	Neutral Steer

\*Take this chart just as general indication.

## GUIDE FOR SET UP (2)

### {Basic Setting}

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.

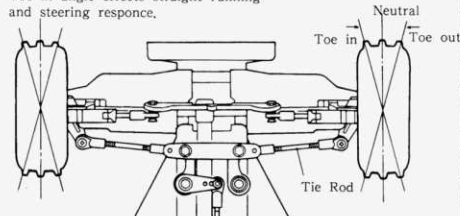


By adjusting the upper rod shorter... You will have a trait of negative camber, and the gripping power becomes bigger.

By adjusting the upper rod longer... You will have a trait of positive camber, and the gripping power becomes down.

### {Toe in angle}

Toe in angle effects straight running and steering response.



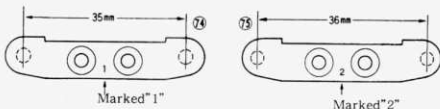
Make the length of tie rod longer...

Becomes toe in,  
Slower steering response,  
Becomes toe out,  
Quick steering response.

Make the length of tie rod shorter...

\*Basic setting...Make a little toe in.  
{Adjustment of Rear Toe In}

Toe in angle is adjustable by changing the part No.74 (printed no.1 on the part) and No.75 (printed no.2 on the part). In this manual part No.74 is used. For more toe in angle use part No.75.



### {Adjustment of Shock Oil and Spring}

Front	With lighter shock oil With less spring tension	→ Quick steering response
Front	With heavier shock oil With more spring tension	→ Slow steering response
Rear	With lighter shock oil With less spring tension	→ More traction
Rear	With heavier shock oil With more spring tension	→ Less traction

### {Maintenance of Diff. Gear}

Check and clear the diff. gear frequently.  
See page 25 "Maintenance Guide" that shows the necessary parts to take off and the steps for checking drive belt.

### {Gear Ratio}

Pinion Gear	15	16	17	18	19	20	21	22	23	24	25
Gear Ratio	12.99	12.18	11.46	10.83	10.26	9.74	9.28	8.86	8.47	8.12	7.79
Slow						Top Speed					Fast
Good						Acceleration					Not Good
Long						Running Time					Short

### {Adjustment of Hardness of Shock Action}

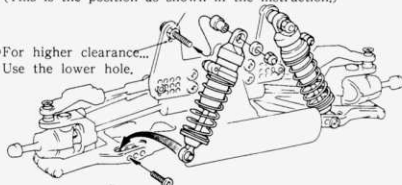
\*Take this chart just as general indication.

NO.1951 Oil Set	Yellow	Green	Yellow	Red	Green	Red
Piston						
Hardness	Harder			Softer		

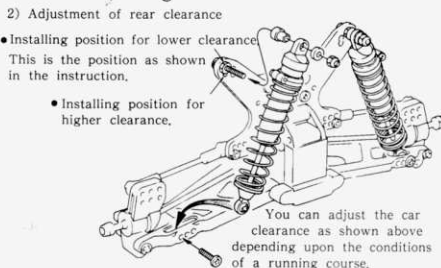
{Adjustment of Car Clearance} Adjust it with the binding screws.

### 1) Adjustment of front clearance

- Installing position for lower clearance.  
(This is the position as shown in the instruction.)



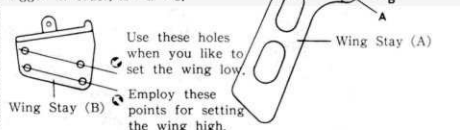
- For higher clearance... Use the lower hole.



Generally speaking, low clearance for turf or anywhere that gives you a good traction, a high clearance for a poor traction.

### {Adjustment of Wing Stay}

When assembling the wing stay (B) to the wing stay (A), fastening the part to the position A will place the part to the position A', B to B' and C to C'; that is the installation angle becomes bigger in order, A → B → C.





### (Modification of Tire)

By changing the shape of the knobs on the tire, you can improve the running performance of the car.

\*If your car displays the quick steering response, cut off the knobs by 1/2 to 1/3 then you can make it with milder response.

Type of Course Surface	Amount of Lowering Knob
Turf	Cut 1/2
Concrete	Cut 2/3
Sandy	No Cutting
Hard Dirt Track	Cut 1/3
Soft Dirt Track	No Cutting

If you change your tire to fit the condition of track surface, you can gain even wider setting range.

For example:

Narrow Tire      SS-M      Hardness of Tire  
Track Condition      H-MH-M-S      Hard      Hardness of Tire      H-M-S      Soft

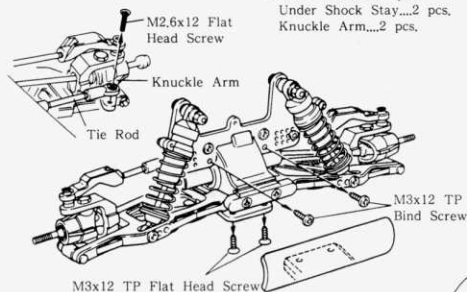
H	MH	M	S	SS
W5034 Narrow Tire W5031 Lowprofile Tire (Hard Dirt Track)				
	W5076 Narrow Tire W5078 Lowprofile Tire (MH-M)			
		W5033 Narrow Tire OT66 Lowprofile Tire (Pin Type Spike)		
			W5032 Lowprofile Tire (Soft Dirt Track)	
				W5075 Narrow Tire W5077 Lowprofile Tire (SS-M)

## MAINTENANCE GUIDE

### (Disassembly of Front Portion)

You can dismount the front portion by removing 6 pcs. of screws as shown in the drawing below.

\* Under Chassis...2 pcs.  
Under Shock Stay...2 pcs.  
Knuckle Arm...2 pcs.



### (How to remove belt cover)

Take off both steering shaft left and right.

Loosen this M2.6x12 Flat Head Screw.

Belt Cover (A)

M3x25 Shaft

Loosen this limiter nut and take off the drive pulley.

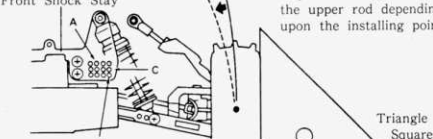
Take off the servo saver shaft.

### [Correlation between installing position of the 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 sus, arms swing down to the lowest position.

Front Shock Stay

Adjust the length of the upper rod depending upon the installing point.



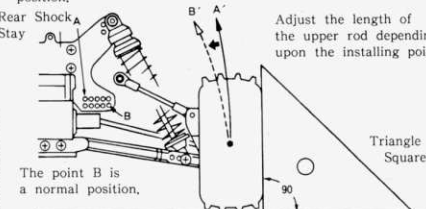
The point C is a normal position.

### [Correlation between installing position of the rear upper rod] and camber angle.

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

Rear Shock Stay

Adjust the length of the upper rod depending upon the installing point.

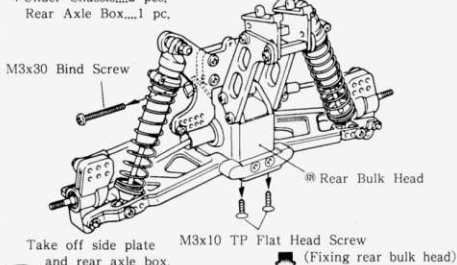


The point B is a normal position.

### (Disassembly of Rear Portion)

You can dismount the rear portion by removing 3 pcs. of screws as shown in the drawing below.

\* Under Chassis...2 pcs.  
Rear Axle Box...1 pc.



Take off side plate and rear axle box.

Also you can dismount the diff. gear by loosen the four screws.

Rear Axle Box (B)

M3x18 TP Round Head Screw

Rear Axle Box (D)

M3x10 TP Flat Head Screw (Fixing rear axle box D)

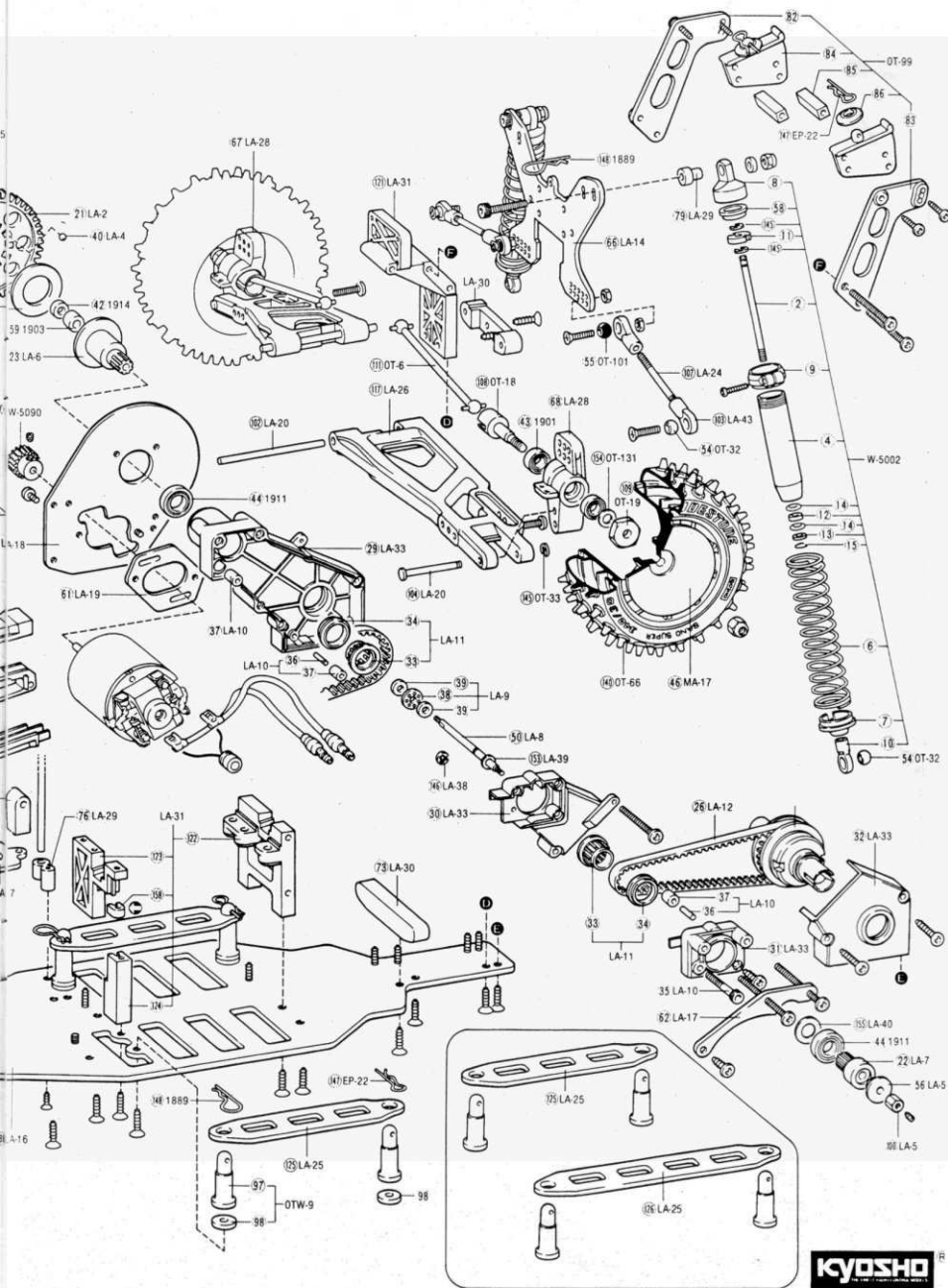
# KEY NUMBERS OF PARTS

Key No.	Parts Name	Q'ty	Key No.	Parts Name	Q'ty	Key No.	Parts Name	Q'ty	Key No.	Parts Name	Q'ty
● ①	Front Shock Shaft	...2	⑨	Main Gear Shaft	.....1	⑨	Stopper Washer (L)	...3	④	Body Pin	.....4
● ②	Rear Shock Shaft	...2	⑩	Guide Plate	.....1	⑩	Limiter Nut	.....1	⑤	Allen Wrench (1.5)	.....1
● ③	Front Shock Case	...2	⑪	Servo Saver Shaft	...2	⑪	3 φ x50 Shaft	.....2	⑥	Allen Wrench (2)	.....1
● ④	Rear Shock Case	...2	⑫	3 φ x6 Flange Plain Bearing	...2	⑫	3 φ x55 Shaft	.....2	⑦	Allen Wrench (2.5)	.....1
● ⑤	Front Shock Spring	...2	⑬	5.8 φ Ball (Silver)	.....10	⑬	5.8 φ Ball End	.....12	⑧	Wave Washer	.....4
● ⑥	Rear Shock Spring	...2	⑭	5.8 φ Ball (Black)	.....8	⑭	Hub Pin	.....4	⑨	4 φ x6.5 Shim	.....1
● ⑦	Spring Holder	.....4	⑮	Limiter Collar	...2	⑮	Rod (L30)	.....3	⑩	5 φ x8.5 Shim	.....6
● ⑧	Shock Cap	.....4	⑯	Upper Deck Post	.....1	⑯	Rod (L40)	.....2	⑪	8 φ x12 Shim	.....1
● ⑨	Spring Stopper	.....4	⑰	Pressure Top	.....4	⑰	Rod (L51)	.....2	⑫	Shock Collar (S) Red	...4
● ⑩	Shock End	.....4	⑱	4 φ x8 Collar	.....1	⑱	Rear Wheel Shaft	.....2	⑬	Pinion Gear (20T)	.....1
● ⑪	Shock Piston	.....4	⑲	Motor Plate (L)	.....1	⑲	Drive Washer	.....4	⑭	Mount Collar (B)	.....1
● ⑫	Shock Collar (White)	.....4	⑳	Motor Plate (S)	.....1	⑳	Joint	.....4	⑮	Cross Wrench	.....1
● ⑬	Shock Collar (Black)	.....4	㉑	Side Plate (L)	.....1	㉑	Swing Shaft	.....2			
● ⑭	O Ring (P3 Red)	.....8	㉒	Servo Mount Plate	.....1	㉒	Knuckle Arm (R)	.....1			
● ⑮	C Ring	.....4	㉓	Steering Plate	.....1	㉓	Knuckle Arm (L)	.....1			
● ⑯	Diff. Case	.....2	㉔	Front Shock Stay	.....1	㉔	5 φ x8 Plain Bearing	.....4			
● ⑰	Sprocket	.....2	㉕	Rear Shock Stay	.....1	㉕	Saver Spring	.....1			
● ⑱	Bevel Gear (A)	.....4	㉖	Rear Hub (R)	.....1	㉖	Front Sus. Arm	.....2			
● ⑲	Bevel Gear (B)	.....4	㉗	Rear Hub (L)	.....1	㉗	Rear Sus. Arm	.....2			
● ⑳	Bevel Shaft	.....2	㉘	Front Hub	.....2	㉘	Belt Cover (A)	.....1			
㉑	Main Gear	.....1	㉙	Bumper	.....1	㉙	Belt Cover (B)	.....1			
㉒	Front Drive Hub	.....1	㉚	Front Arm Bracket (A)	...1	㉚	Belt Cover (C)	.....1			
㉓	Rear Drive Hub	.....1	㉛	Front Arm Bracket (B)	1	㉛	Rear Bulk Head	.....1			
㉔	Universal Swing Shaft	...2	㉜	Rear Arm Bracket (A)	...1	㉜	Upper Deck Mount (A)	1			
㉕	Front Drive Belt	...1	㉝	Rear Arm Bracket (B)	...1	㉝	Upper Deck Mount (B)	1			
㉖	Rear Drive Belt	...1	㉞	Rear Arm Bracket (C)	...1	㉞	Mount Collar (A)	.....1			
㉗	Front Axle Box (A)	...1	㉟	Antenna Post	.....1	㉟	Stopper Plate (S)	...2			
㉘	Front Axle Box (B)	...1	㊱	Servo Stay (S)	.....2	㊱	Stopper Plate (L)	.....1			
㉙	Rear Axle Box (A)	...1	㊲	Servo Stay (L)	.....2	㊲	Upper Deck (R)	.....1			
㉚	Rear Axle Box (B)	...1	㊳	Shock Collar (A)	.....4	㊲	Upper Deck (L)	.....1			
㉛	Rear Axle Box (C)	...1	㊴	Upper Rod End	.....2	㊳	Gear Cover	.....1			
㉜	Rear Axle Box (D)	...1	㊵	Uni Crank Collar (B)	...2	㊴	Antenna Pipe	.....1			
㉝	Drive Pulley	.....2	㊶	Wing Stay (A) (R)	.....1	㊵	Ni-Cad Strap	.....2			
㉞	Pully Flange	.....2	㊷	Wing Stay (A) (L)	.....1	㊶	Double Sided Tape	.....2			
㉟	M3x25 Shaft	.....1	㊸	Wing Stay (B)	.....2	㊷	Shock Oil (Green)	...1			
㊱	Needle Roller Shaft	...3	㊹	Wing Stay Joint	...2	㊸	Strap (S)	.....3			
㊲	Needle Roller	.....4	㊺	Wing Washer	...2	㊹	Silicone Grease	.....1			
㊳	Thrust Bearing	.....1	㊻	Uni Crank (A)	.....1	㊺	Screw Locking Compound	.....1			
㊴	4 φ Thrust Washer	...2	㊼	Uni Crank (B)	.....1	㊻	Velcro	.....1			
㊵	Thrust Ball	...12	㊽	Uni Crank (C)	.....1	㊼	Main Chassis	.....1			
㊶	Thrust Plate	.....2	㊾	Uni Crank Collar (A)	...2	㊽	Front Tire	.....2			
㊷	4 φ x8 Plain Bearing	...1	㊿	Servo Saver	.....1	㊾	Rear Tire	.....2			
㊸	5 φ x10 Ball Bearing	...8	㊱	Saver Ring	.....1	㊿	Body (Lazer ZX)	.....1			
㊹	8 φ x14 Ball Bearing	...6	㊲	Saver Horn (SL)	.....1	㊱	Wing	.....1			
㊺	Front Wheel	.....2	㊳	Saver Horn (SS)	.....1	㊲	Under Cowl	.....1			
㊻	Rear Wheel	.....2	㊴	Saver Horn (F)	.....1	㊳	Decal (Lazer ZX)	.....1			
㊼	Steering Shaft	.....2	㊵	Saver Washer	.....1	㊴	E Ring (E2.5)	...12			
㊽	King Pin (L)	.....2	㊶	Stopper Post	.....4	㊵	E Ring (E3)	...1			
㊾	King Pin (S)	.....2	㊷	Stopper Washer (S)	...4	㊶	Hook Pin	.....4			

NOTE : The parts marked ● & ㉑ are temporary pre-assembled.

The parts marked \* are including spares besides indicated quantity.

[illegible]



# 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 the part within the manual.

Then consult out part pack guide below. When referring to the parts you need, always use the Parts Pack Number. For example, if you need a main gear (key no.21) ask your dealer for Kyosho Parts Pack LA-2 (Main Gear).

NO.	Parts Name	Key Number & Q'ty
LA-1	Diff. Case Set	(1/16" X1) Pulley Flange for Ball Diff. X1
LA-2	Main Gear	21 X1
LA-3	Thrust Plate	41 X2
LA-4	Thrust Ball	41 X15
LA-5	Guide Plate Set	51 X1 52 X2
LA-6	Rear Drive Hub (One way clutch)	22 X1
LA-7	Front Drive Hub (One way clutch)	22 X1
LA-8	Main Gear Shaft	59 X1
LA-9	Thrust Bearing Set	31 X1 32 X2
LA-10	Belt Roller Set	31 X1 32 X3 33 X4
LA-11	Drive Pulley Set	31 X2
LA-12	Rear Drive Belt	28 X1
LA-13	Front Drive Belt	28 X1
LA-14	Shock Stay	28 X1
LA-15	Upper Deck	21 X1 22 X1
LA-16	Main Chassis	28 X1
LA-17	Plate Set	28 X1 29 X1
LA-18	Motor Plate (L)	28 X1
LA-19	" (S)	28 X1
LA-20	Sus. Shaft Set	28 X2 29 X4
LA-21	King Pin (L)	28 X4
LA-22	Steering Pin	28 X2
LA-23	Saver Shaft Set	28 X2 29 X1
LA-24	Rod Set	28 X3 29 X2
LA-25	Stopper Plate Set	28 X1
LA-26	Sus. Arm Set	28 X2
LA-27	Front Hub Carrier	28 X2
LA-28	Rear Hub Carrier	28 X1
LA-29	Upper Rod End	28 X1 29 X2 30 X2 31 X4
LA-30	Arm Bracket	28 X1 29 X2 30 X1
LA-31	Upper Deck Mount	28 X1 29 X1
LA-32	Front Axle Box	28 X1
LA-33	Rear Axle Box	28 X1 29 X1
LA-34	Belt Cover	28 X1
LA-35	Gear Cover	28 X1
LA-36	Body (Lazer ZX)	28 X1
LA-37	Decal (Lazer ZX)	28 X1
LA-38	Screw (Lazer ZX)	28 X1
LA-39	4 φ Shim Set	28 X20
LA-40	8 φ Shim Set	28 X20
LA-41	Velcro	28 X2
LA-42	Double Wing	28 X1
LA-43	5.8 φ Ball End	28 X12
OT-4	King Pin	28 X4
OT-6	Swing Shaft	28 X2
OT-16	Knuckle Arm	28 X1
OT-18	Rear Shaft	28 X2
OT-19	Drive Washer	28 X4
OT-28	Diff. Gear Set	28 X4 29 X2
OT-32	5.8 φ Ball	28 X10
OT-38	Silicone Grease	28 X2
OT-39	E Ring (E2.5)	28 X10
OT-66	Lowprofile Tire (Pin Type)	28 X2
OT-93	Bumper	28 X1
OT-99	Wing Stay Set	28 X1 29 X2 30 X4
OT-121	Narrow Wheel	28 X2
OTW-9	Plastic Parts Set	28 X4
OTW-10	Uni Crank Servo Saver	28 X1 29 X1 30 X1 31 X1 32 X1 33 X1 34 X1 35 X1 36 X1 37 X1 38 X1 39 X1 40 X1 41 X1 42 X1 43 X1 44 X1 45 X1 46 X1 47 X1 48 X1 49 X1 50 X1 51 X1 52 X1 53 X1 54 X1 55 X1 56 X1 57 X1 58 X1 59 X1 60 X1 61 X1 62 X1 63 X1 64 X1 65 X1 66 X1 67 X1 68 X1 69 X1 70 X1 71 X1 72 X1 73 X1 74 X1 75 X1 76 X1 77 X1 78 X1 79 X1 80 X1 81 X1 82 X1 83 X1 84 X1 85 X1 86 X1 87 X1 88 X1 89 X1 90 X1 91 X1 92 X1 93 X1 94 X1 95 X1 96 X1 97 X1 98 X1 99 X1 100 X1 101 X1 102 X1 103 X1 104 X1 105 X1 106 X1 107 X1 108 X1 109 X1 110 X1 111 X1 112 X1 113 X1 114 X1 115 X1 116 X1 117 X1 118 X1 119 X1 120 X1 121 X1 122 X1 123 X1 124 X1 125 X1 126 X1 127 X1 128 X1 129 X1 130 X1 131 X1 132 X1 133 X1 134 X1 135 X1 136 X1 137 X1 138 X1 139 X1 140 X1 141 X1 142 X1 143 X1 144 X1 145 X1 146 X1 147 X1 148 X1 149 X1 150 X1 151 X1 152 X1 153 X1 154 X1 155 X1 156 X1 157 X1 158 X1 159 X1 160 X1 161 X1 162 X1 163 X1 164 X1 165 X1 166 X1 167 X1 168 X1 169 X1 170 X1 171 X1 172 X1 173 X1 174 X1 175 X1 176 X1 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