RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY

4WD OFF-ROAD RACER

# OPTIMA MID

- •FOUR-WHEEL DRIVE BY LIGHTWEIGT EFFICIENT TIMING BELT.
  - **EXTRA-LONG WHEEL TRAVEL FOR TOP HANDLING.**
- MID-SHIP MOTOR POSITION FOR BEST WEIGHT DISTRIBUTION.
  - **OSTRONG, LIGHT ALUMINUM-ALLOY PLATE CHASSIS.**
- OVERSIZE PRESSURE SHOCKS, POWERFUL 240ST MOTOR, AND SPEED CONTROLLER INCLUDED IN KIT.
- GLASS-REINFORCED SUSPENSION ARMS FOR STRENGTH WITH LIGHT WEIGHT.
   LOW-PROFILE, HIGH-GRIP TIRES.
  - •HIGH PERFORMANCE: LIGHT WEIGHT, TOP SUSPENSION ACTION.
    - EASY ASSEMBLY AND ADJUSTMENT. SIMPLE MAINTENANCE.

1:10 SCALE

BATTERY: 7.2V-1200mAh RADIO: 2ch. [NOT INCLUDED]





\*Read the instruction carefully.

You can assemble the kit more easily if you have grasped

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 correctry bagged as they are listed in the "List of Bagged Parts".

Your through understanding of the assembly will enable you to build the kit without any difficulty. Check the components in



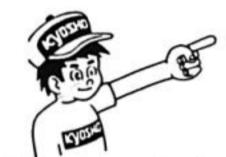
Any clams for replacements or refunds for the model in the process of assembly will not be accepted.

\*Lean the marks described in the instruction.

Points where grease should applied.

(It will reduce friction are assure smooth movements.)

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



Steps where you particular attention is required.

KYDZHD

\*Be well aware of the different types of screws.

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

Self Tapping Screw Ordinary Screw

Coarser Thread Pointed tips. Finer Thread

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

Truss Screw - A hexagonal hollow in place of screw head.

There are two Cap Screw

Bind Screw 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 with the attached sheet of "List of Small Parts."

ed sheet of "List of Small Check up small parts with the list.

מ-אפקינים זוכמיז

\*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 necessary, assemble the parts themselves tentatively before proceeding to the next step.

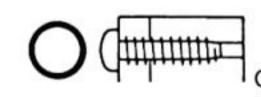
\*Do not tighten the self-tapping screw too tight.

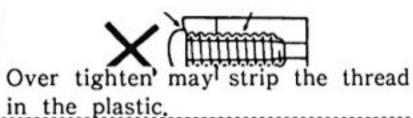
Do not use excessive force when tightening the self-tapping screws, or you may strip the thread in the plastic.

It is recommended to stop tightening it when the thread par

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.

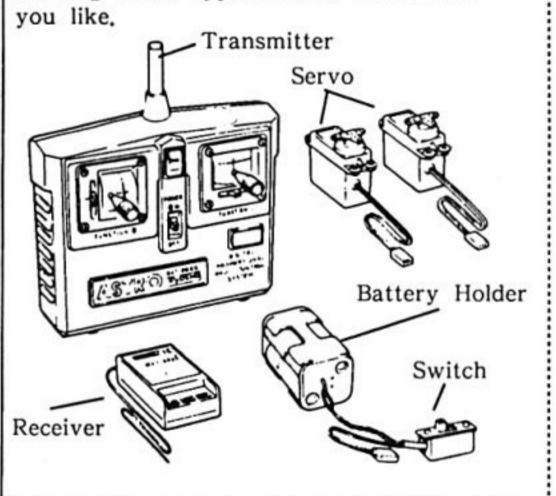
Good





\*Things need besides the kit.

(2 Channel Radio System)
Two types of radio control set are on
the market, the stick type and the
steering wheel type, Choose which ever



(Battery for radio System)
AA Size Battery
For Transmitter
..... 8 pcs
For receiver
..... 4 pcs.

(Ni-Cd Battery)

"Optima Mid" is designed to use a rechargeable 7.2V Ni-Cd Battery pack.

7.2V Racing Battery and 7.2V Power Battery are ideal for the purpose.

No.2306 7.2V Power Battery



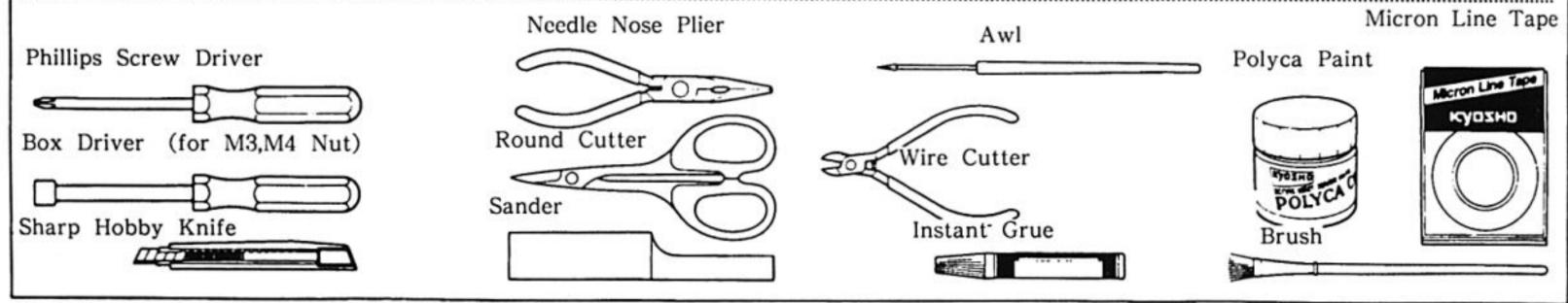


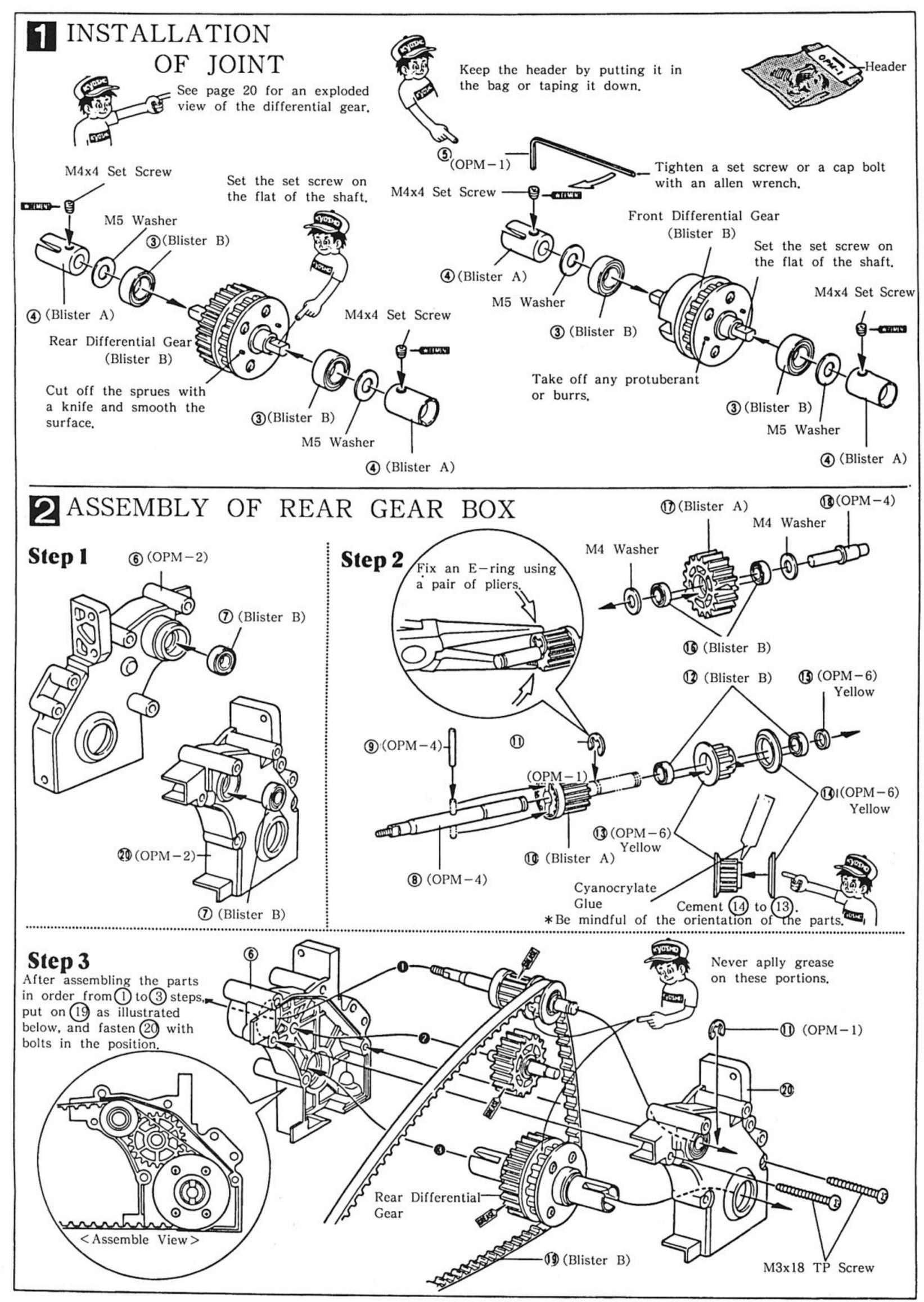
(Charger for Ni-Cd Battery)

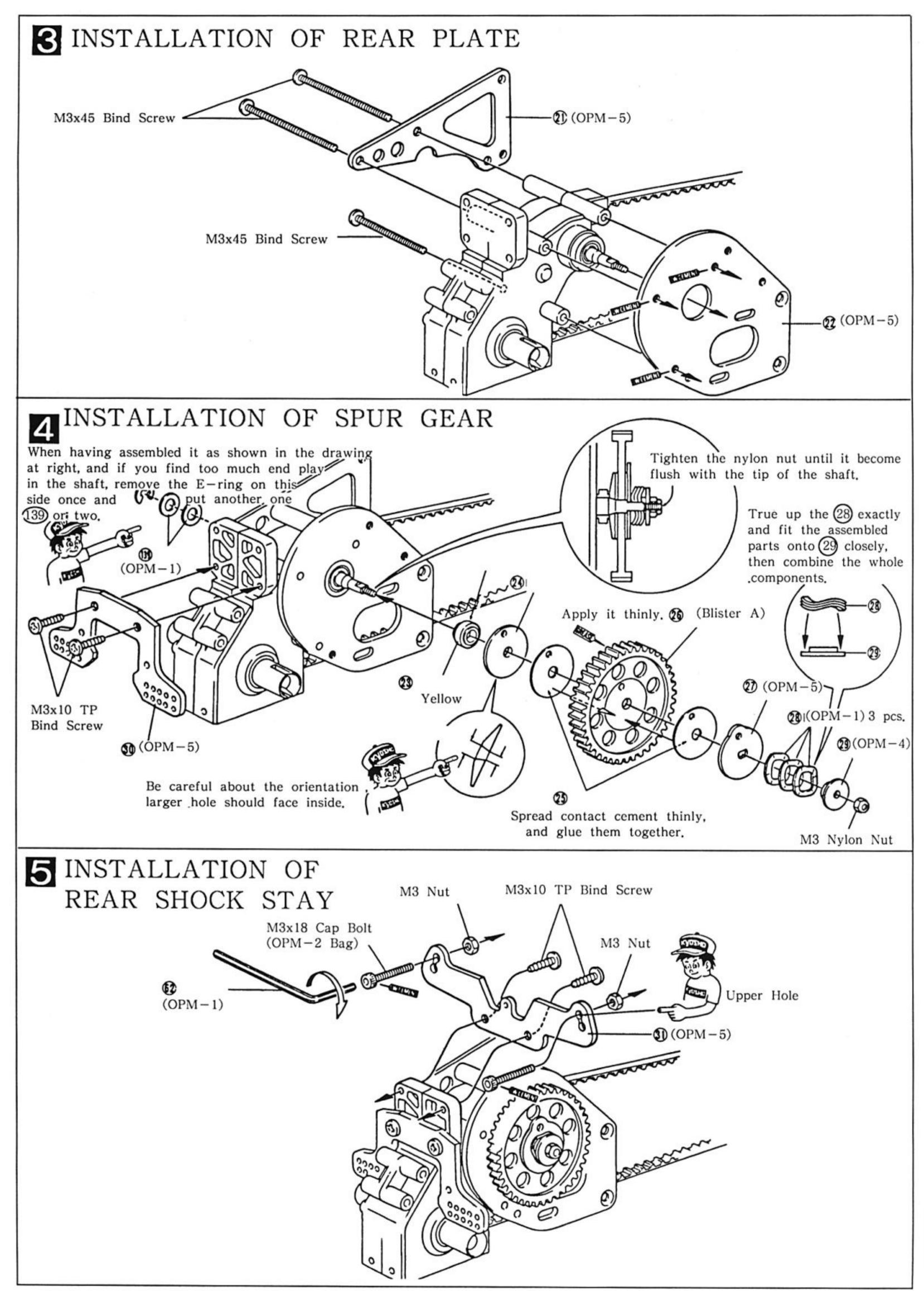
The Kyosho's Ni-Cd battery is of high performance. If it is charged correctly, it will operate for a considerable period of time.

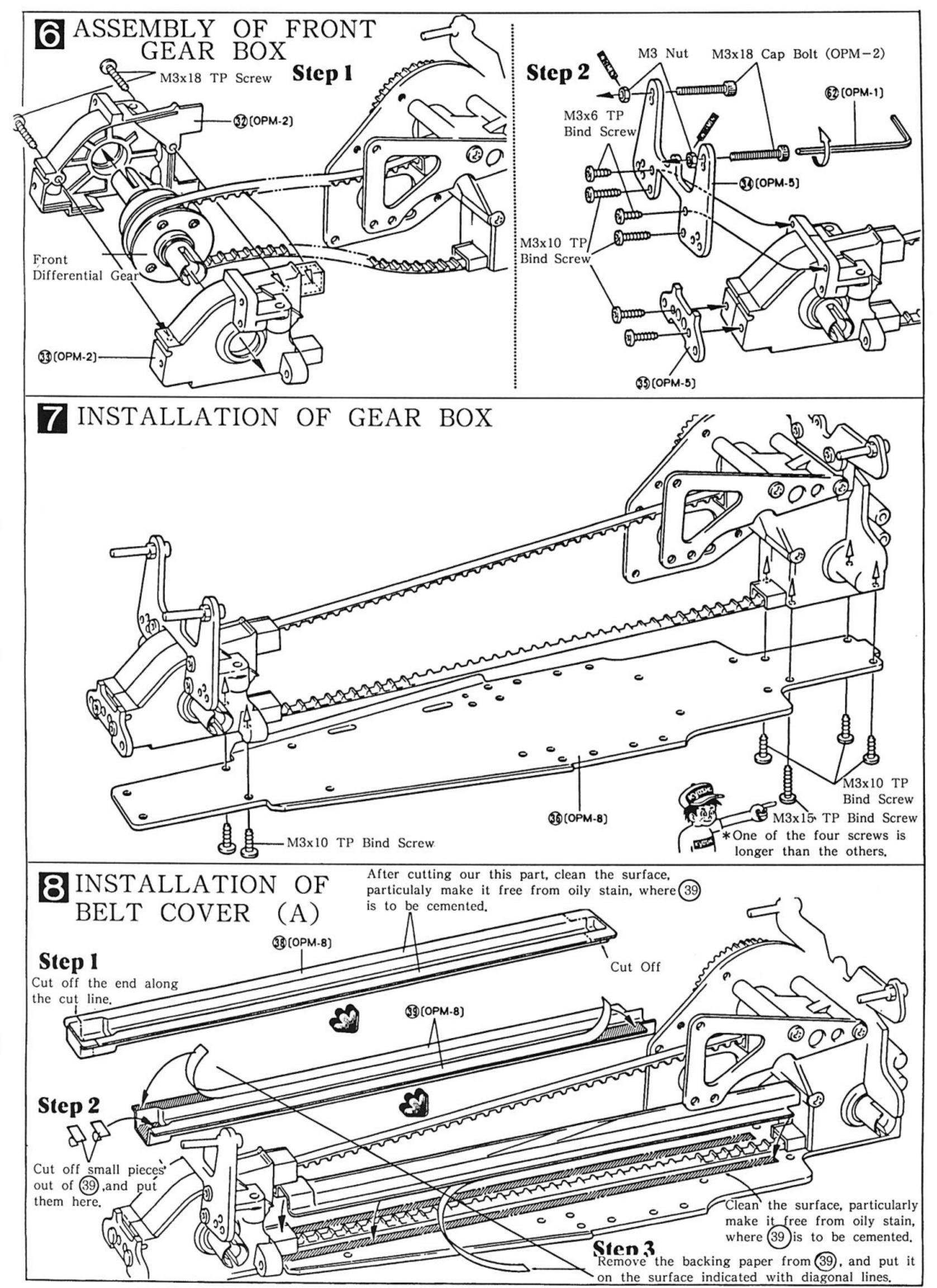
Use one of the Chargers listed below which suits your need.

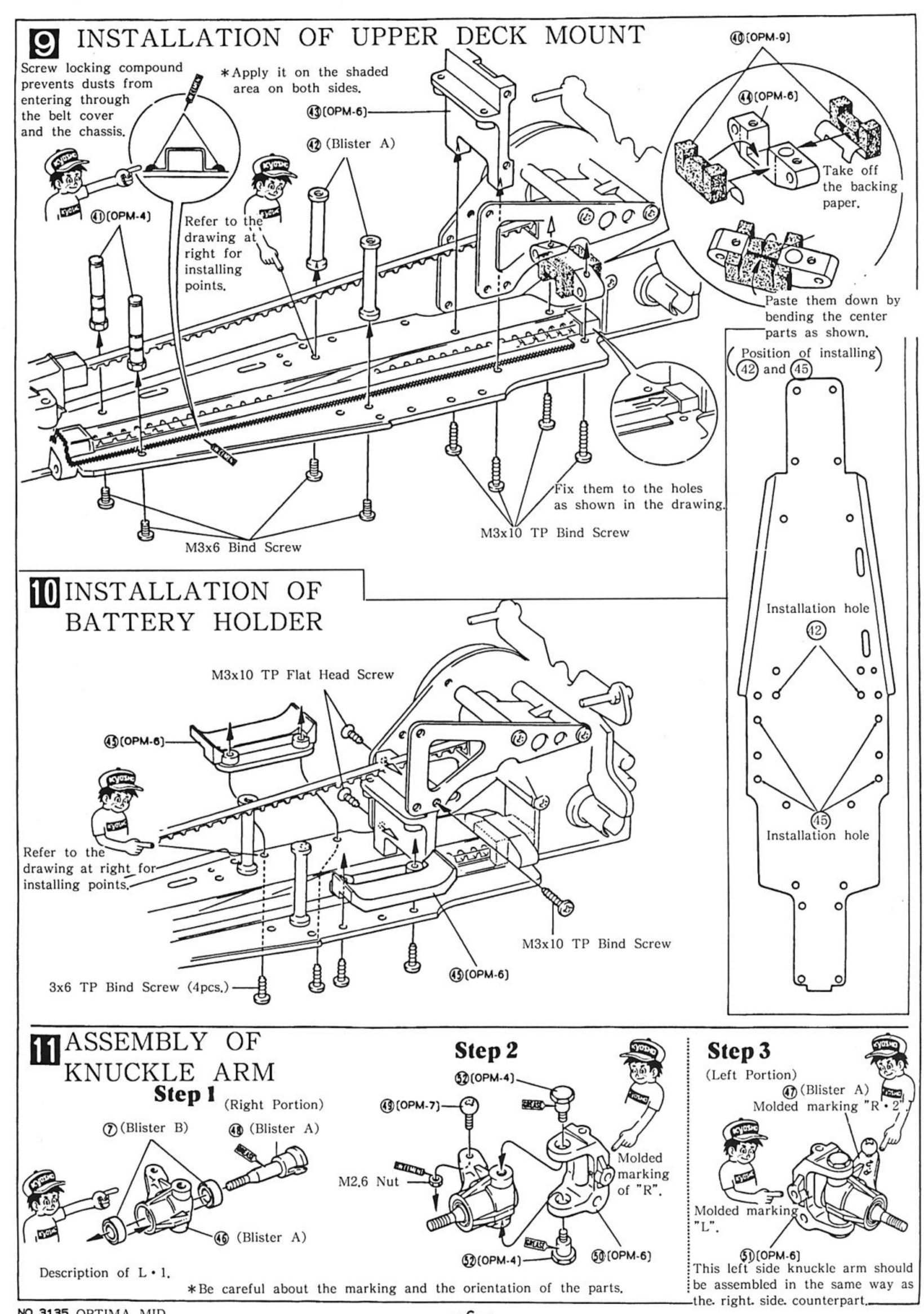
Model	Name	Time	Rate %	Features
No,2326	7.2V Power Quick Charger (DC12V)	15 (Min)	70 %	For biginners Built—in timer
No.1845	Lambda Quick Charger (DC12V)	20 (Min)	100 %	Trickle charging auto-cut off at peak charge.

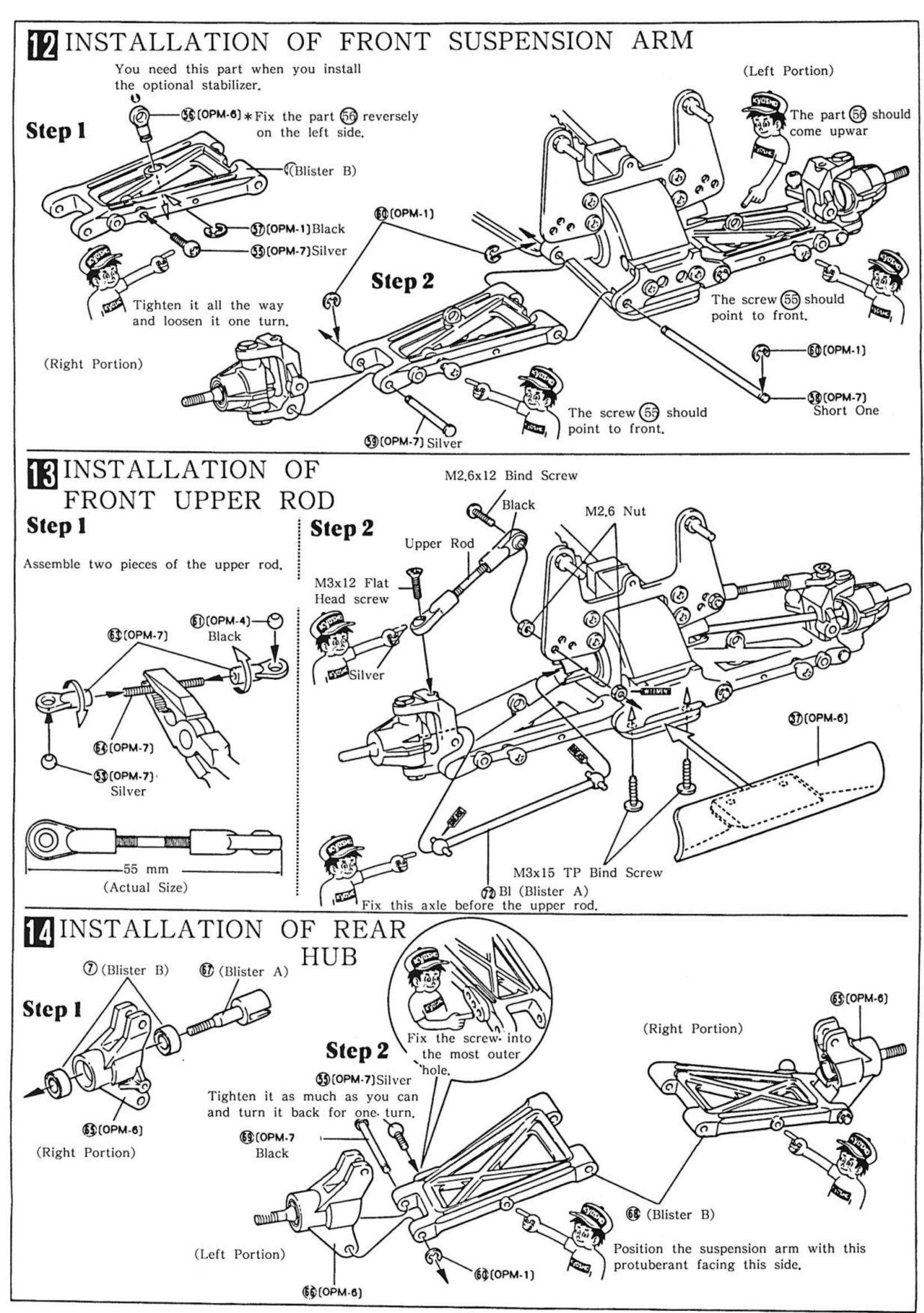


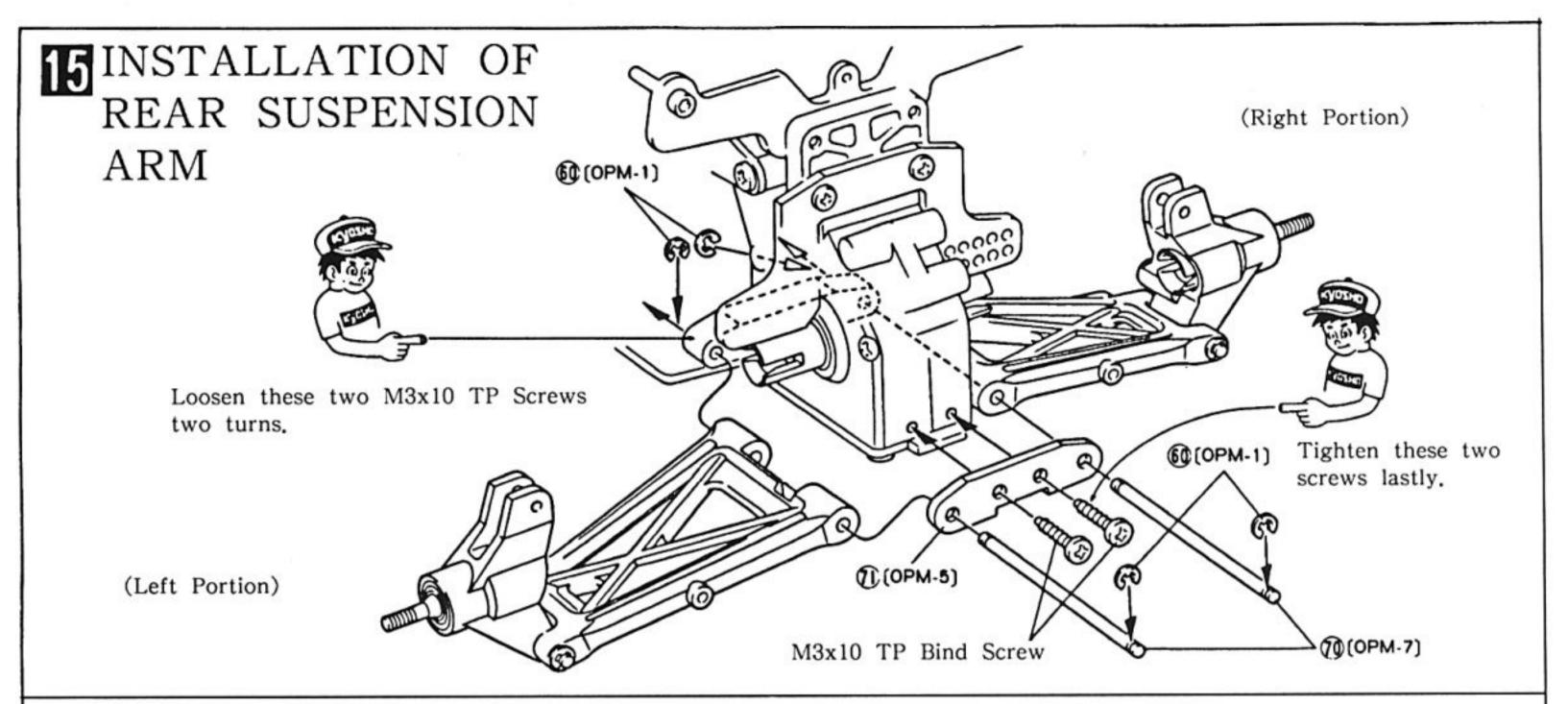


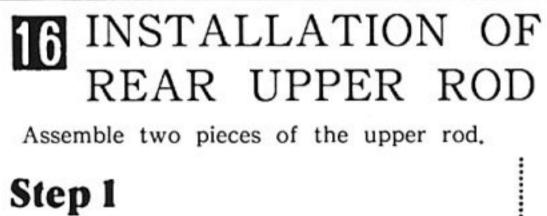


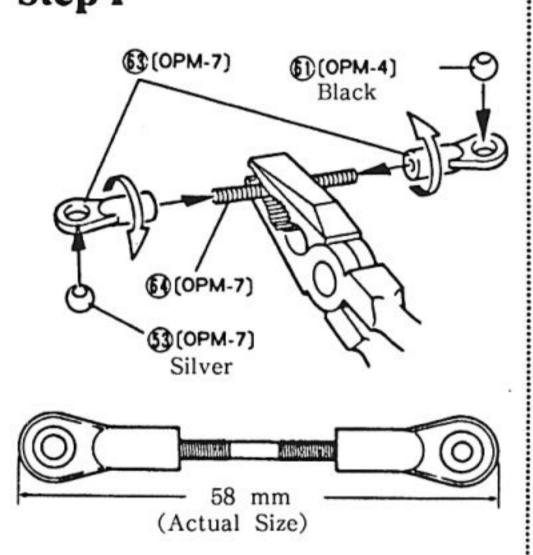


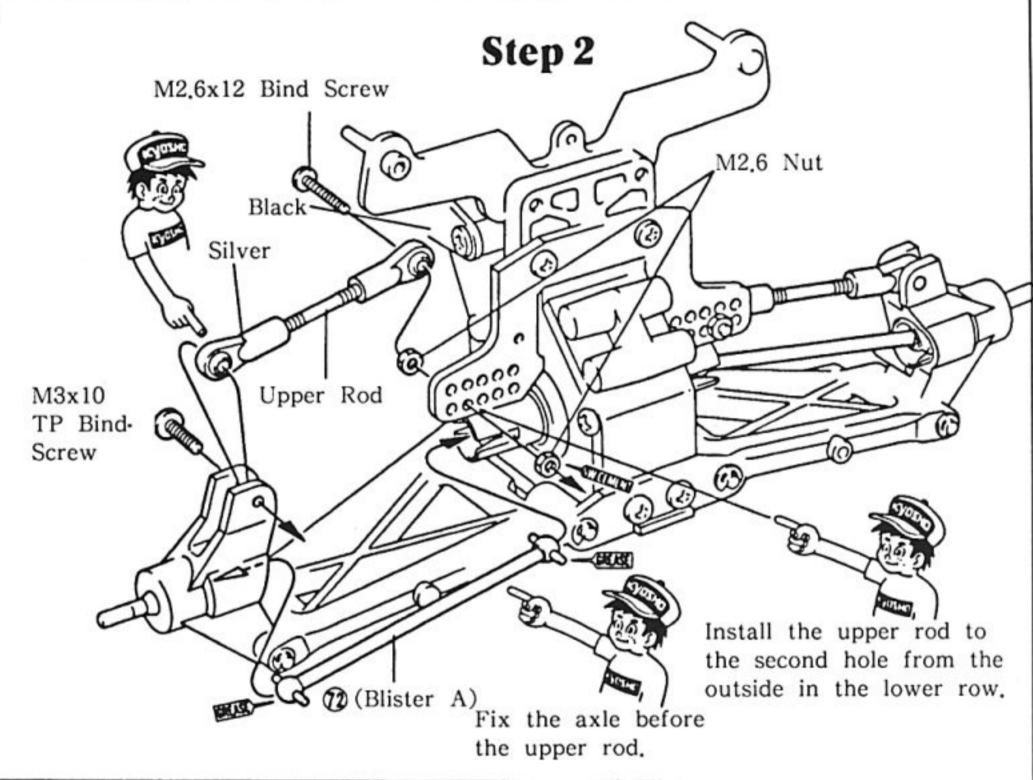


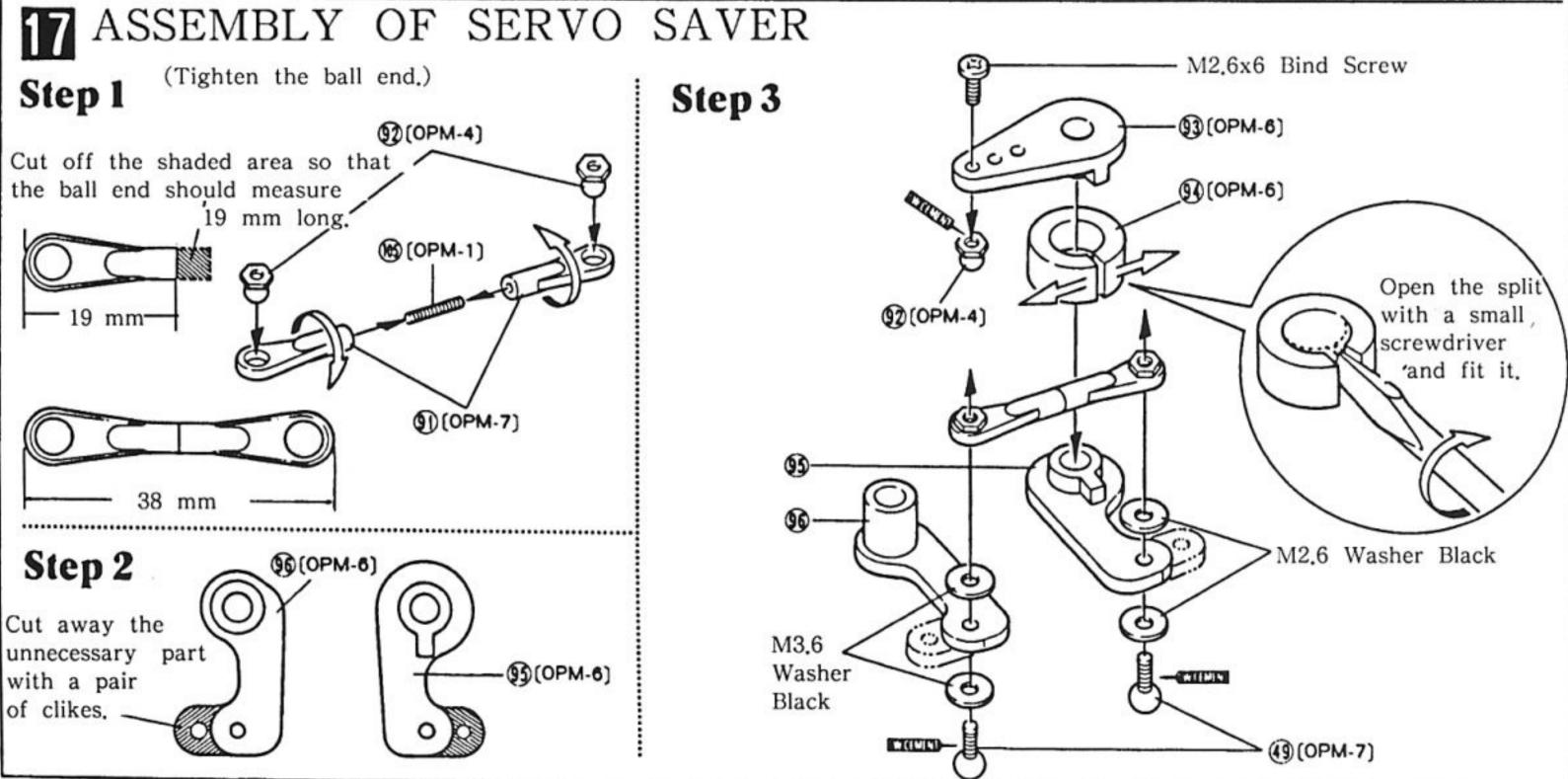


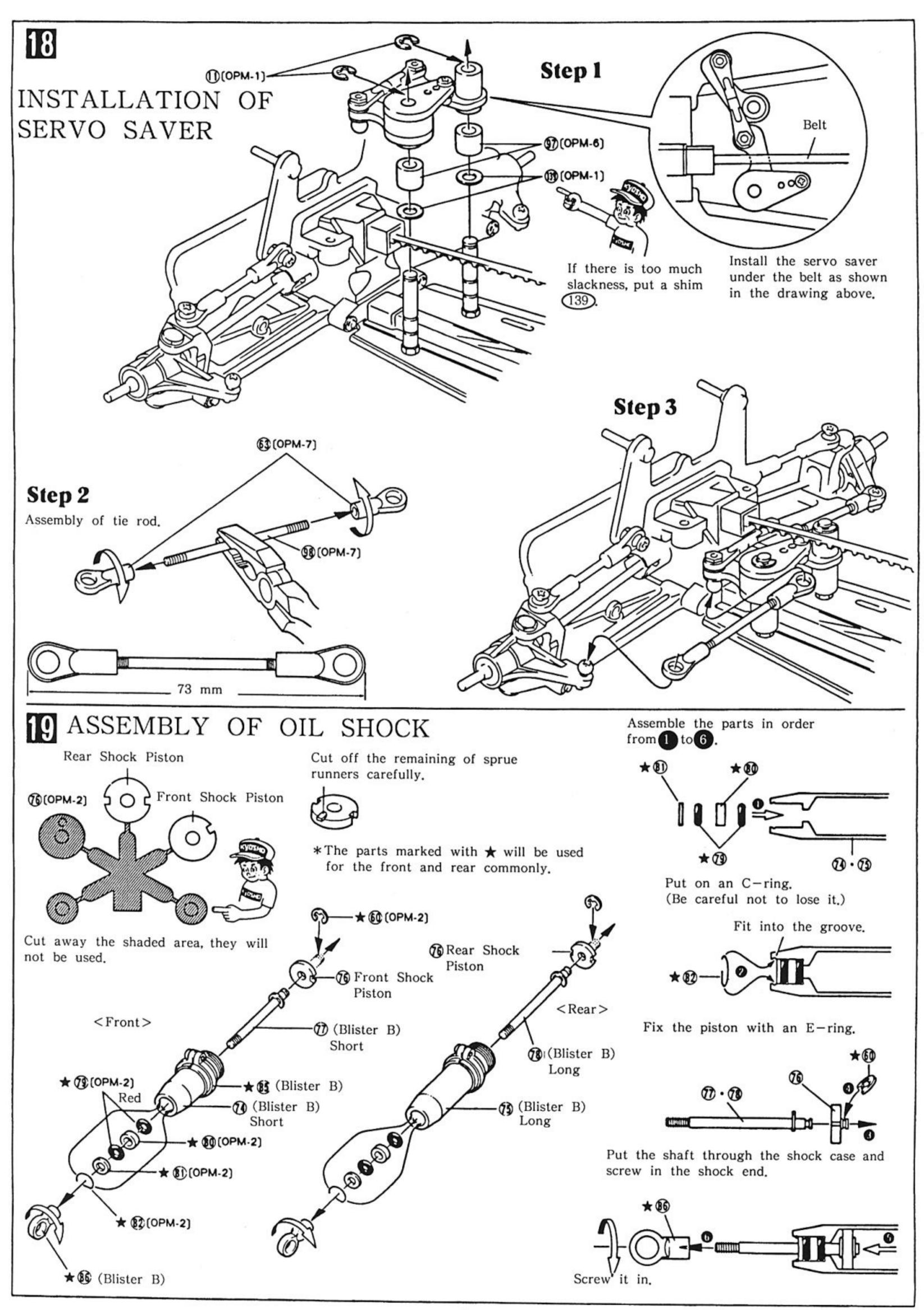


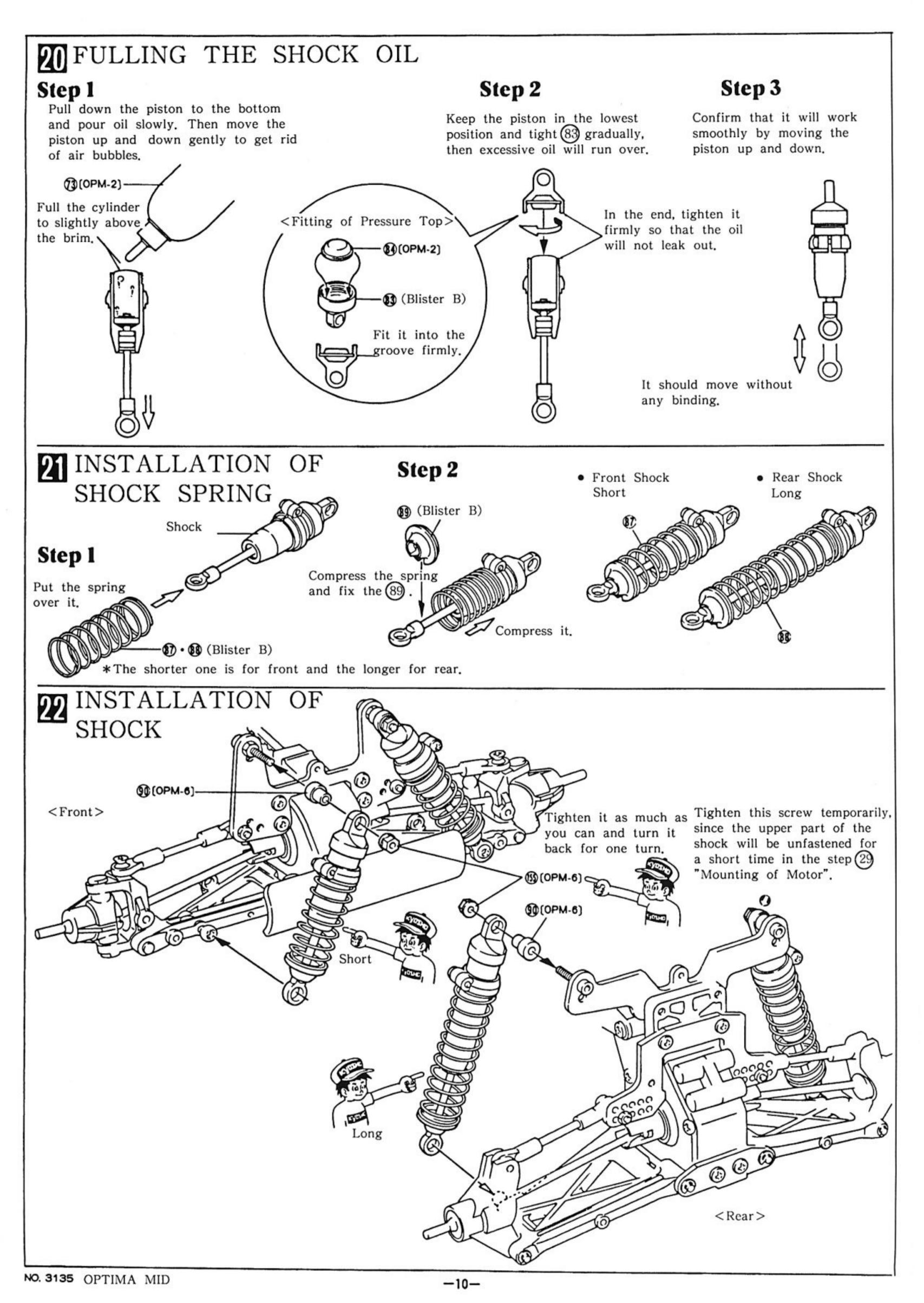


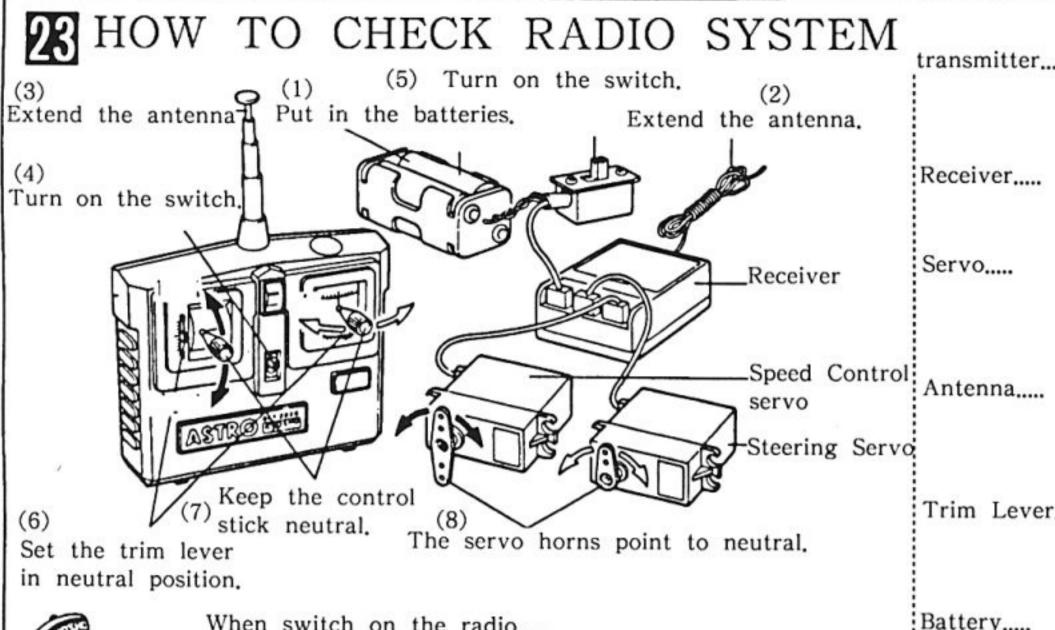












When switch on the radio.....

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

In order from receiver to transmitter.

\*Operate the radio units in numerical order. A two channel radio is composed of things like a transmitter, receiver, servos, and battery case.

transmitter.... It is in effect a control box, Signal waves are transmitted through an antenna according to the stick movements.

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

Servo.... They really move the control mechanism of a model car in accordance with the signals from the receiver.

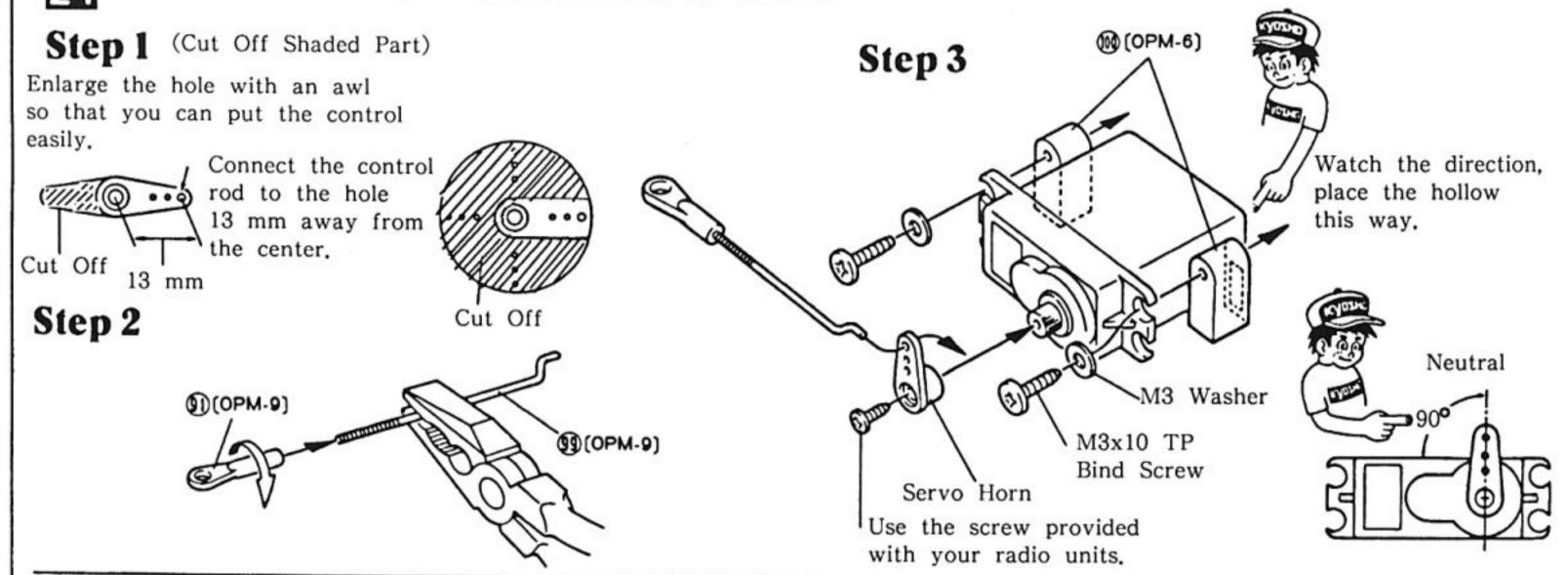
An antenna on the transmitter sends signals, and one on the receiver accepts them. They should be fully extended.

Trim Lever .... They will adjust the neutral position of servos, thus regulate the steering and advancing controls finely.

Battery..... You can tell the amount of electricity in a battery and how the signals are emitted. Meter

> They are intermediate devices on the servos to activate the controls. There are several types in shape. They should be selected depending upon the usage.

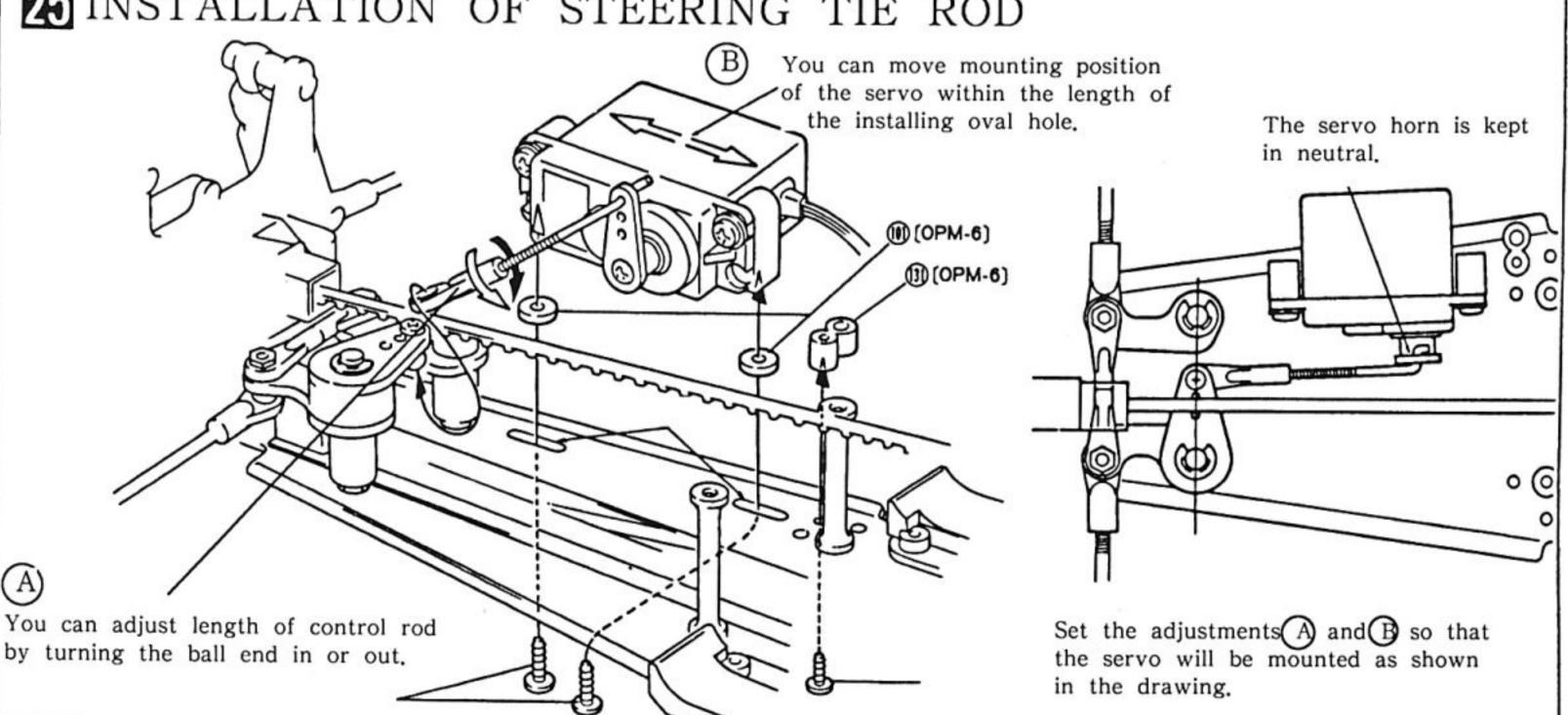


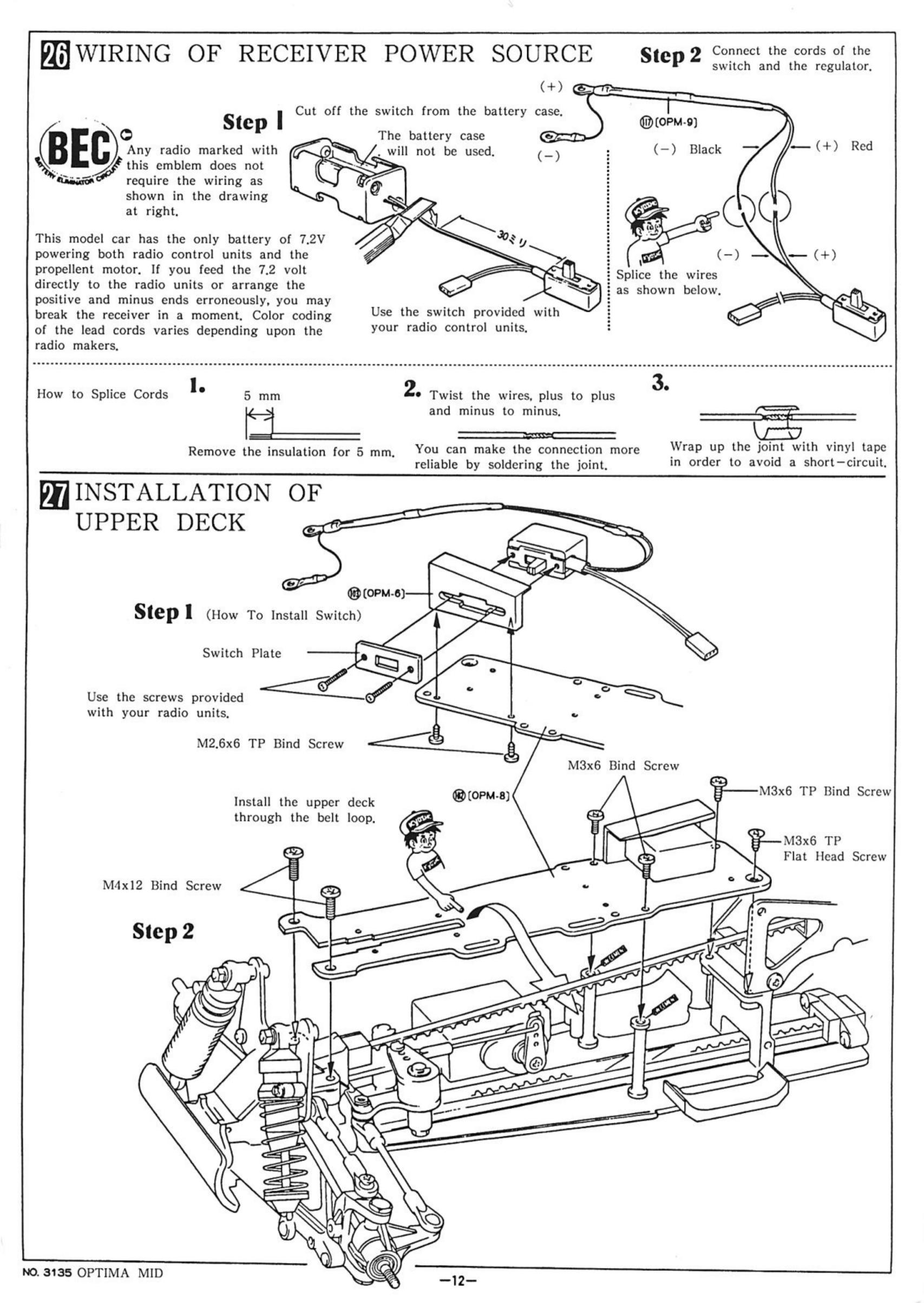


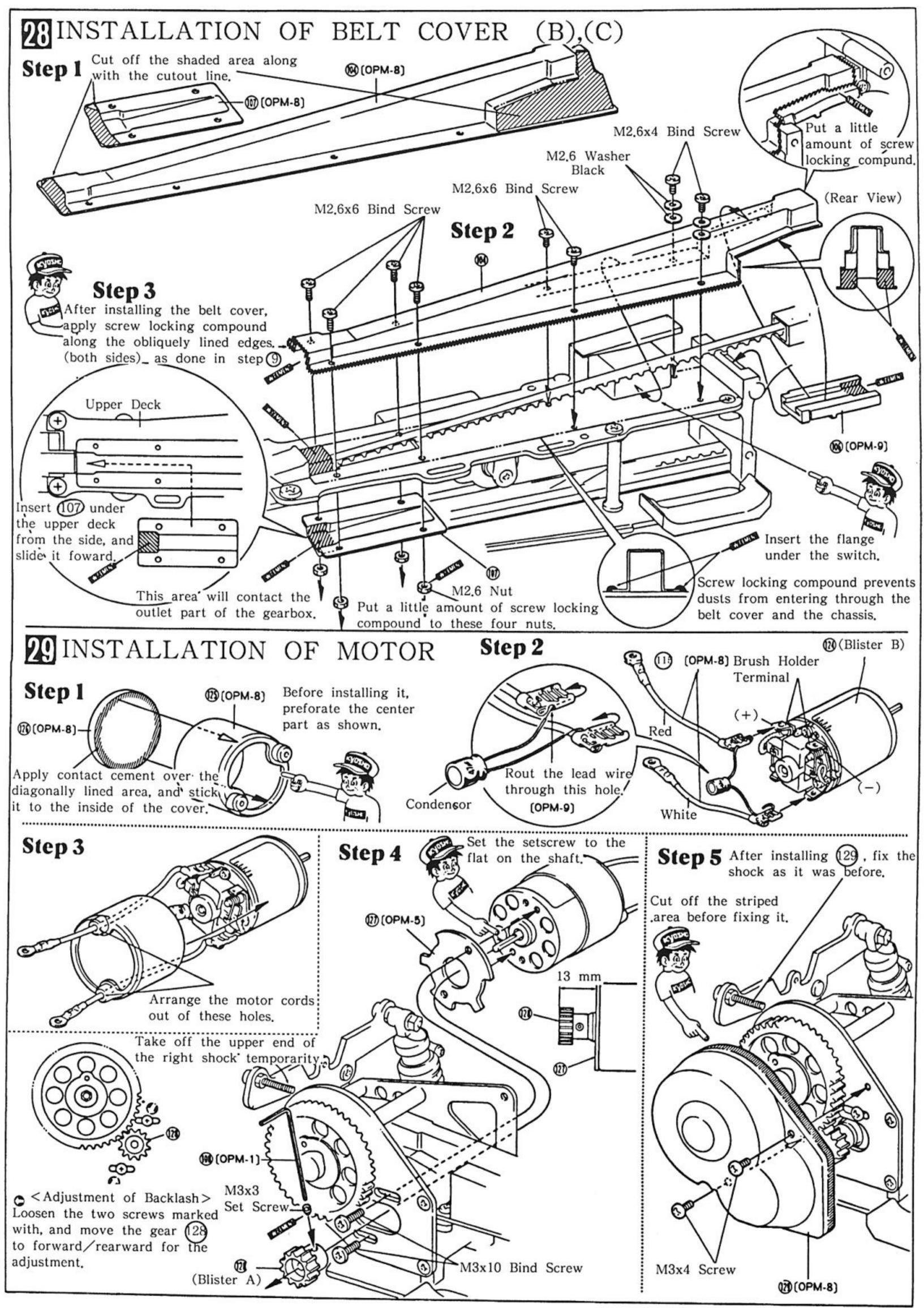
Servo....

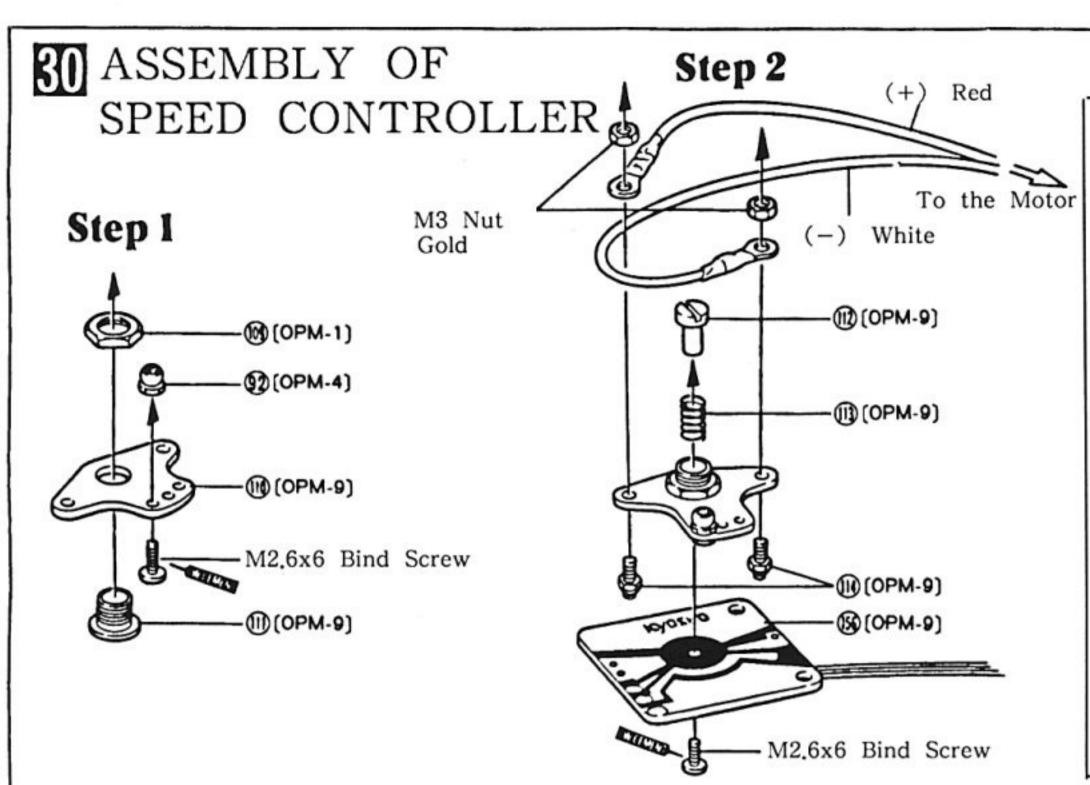
Horns

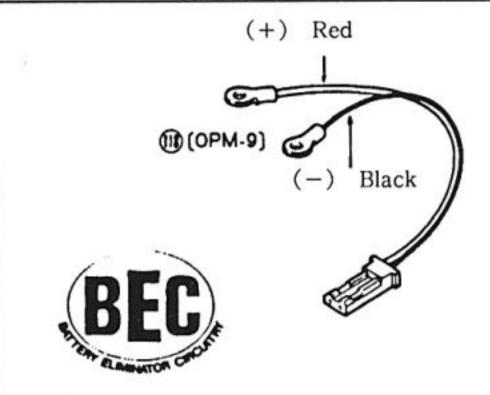
# INSTALLATION OF STEERING TIE ROD



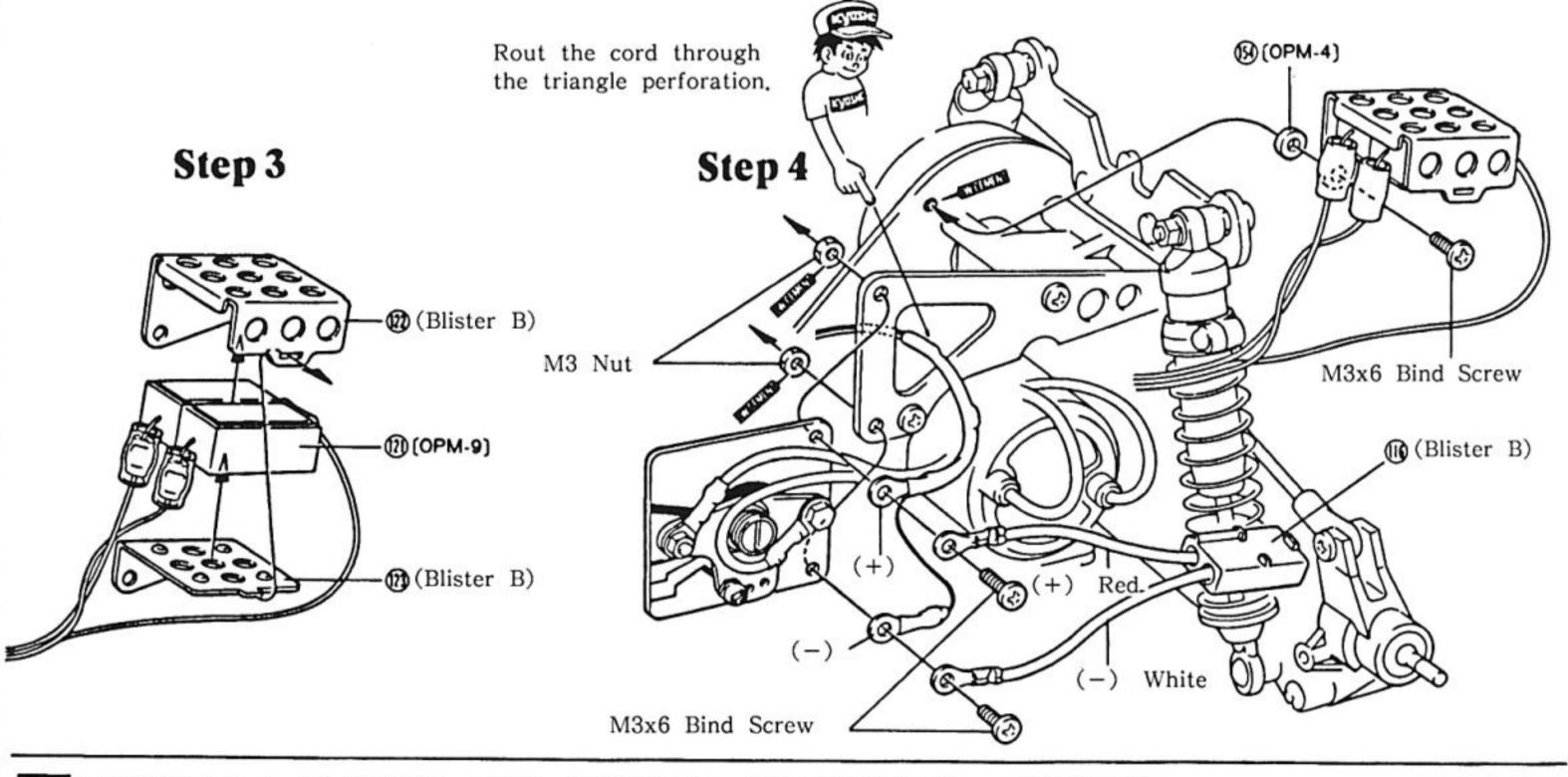




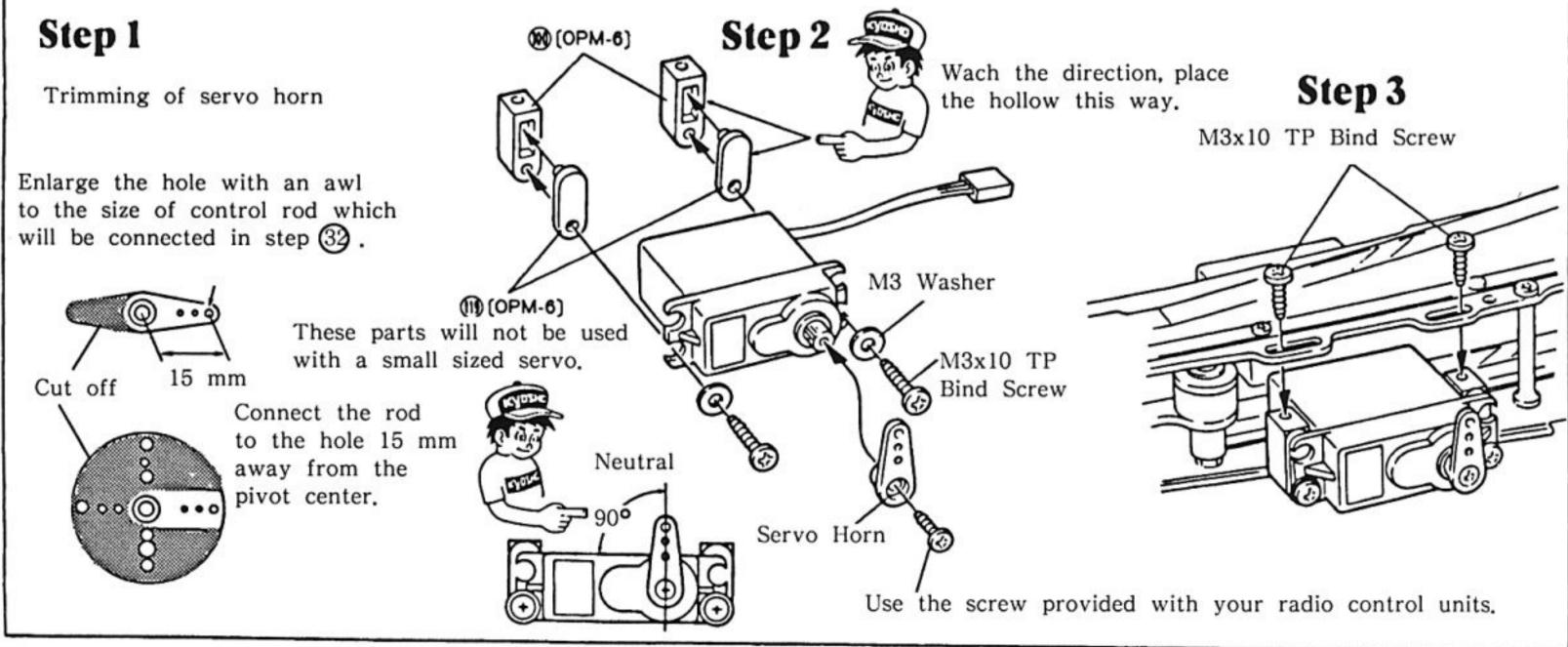


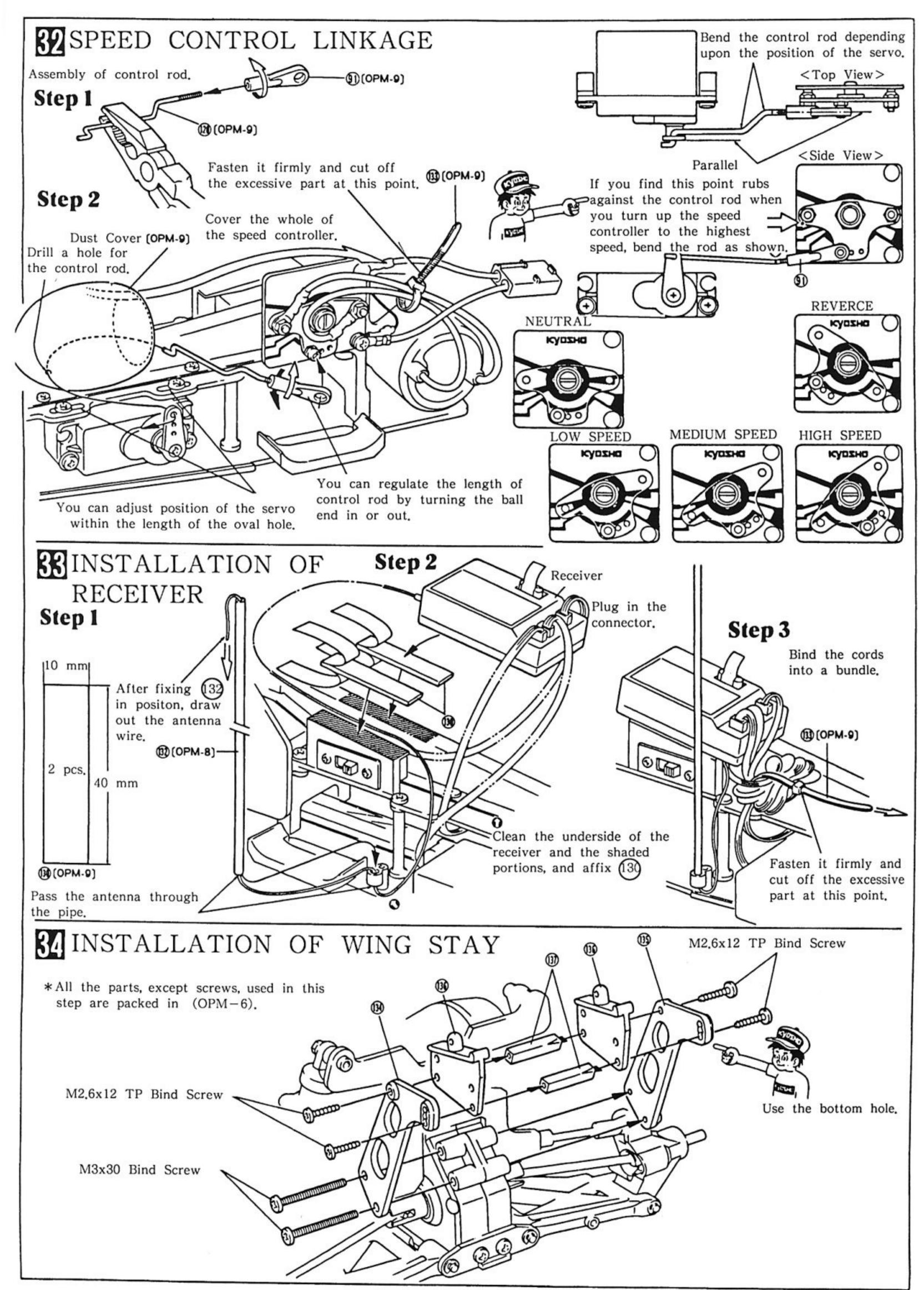


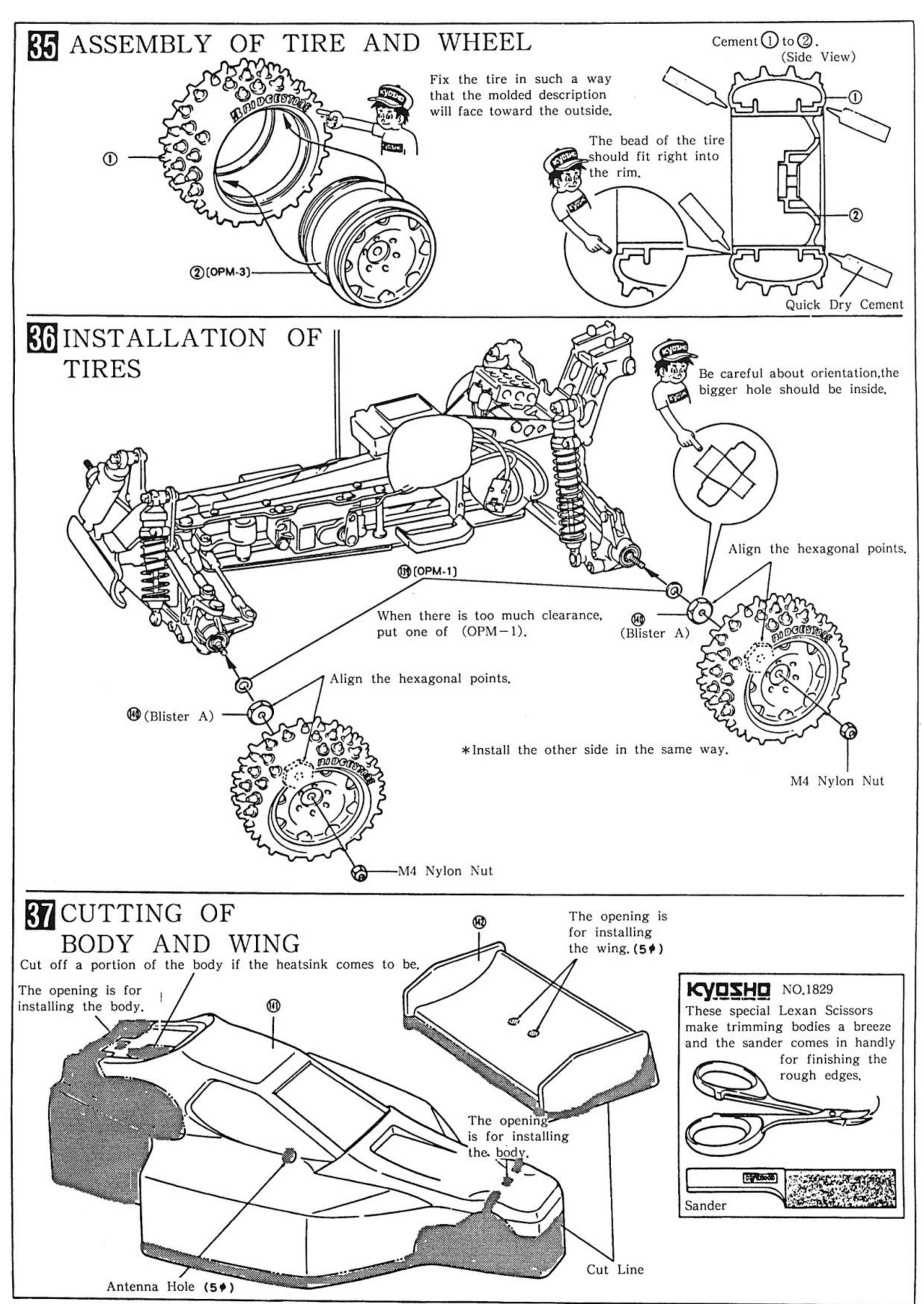
A set of radio control units contained in a box with this logogram is the BEC type. It does not need any regulator, or wiring illustrated in step 26 for the receiver. Be very sure not to make a mistake in connecting the positive and negative terminals.

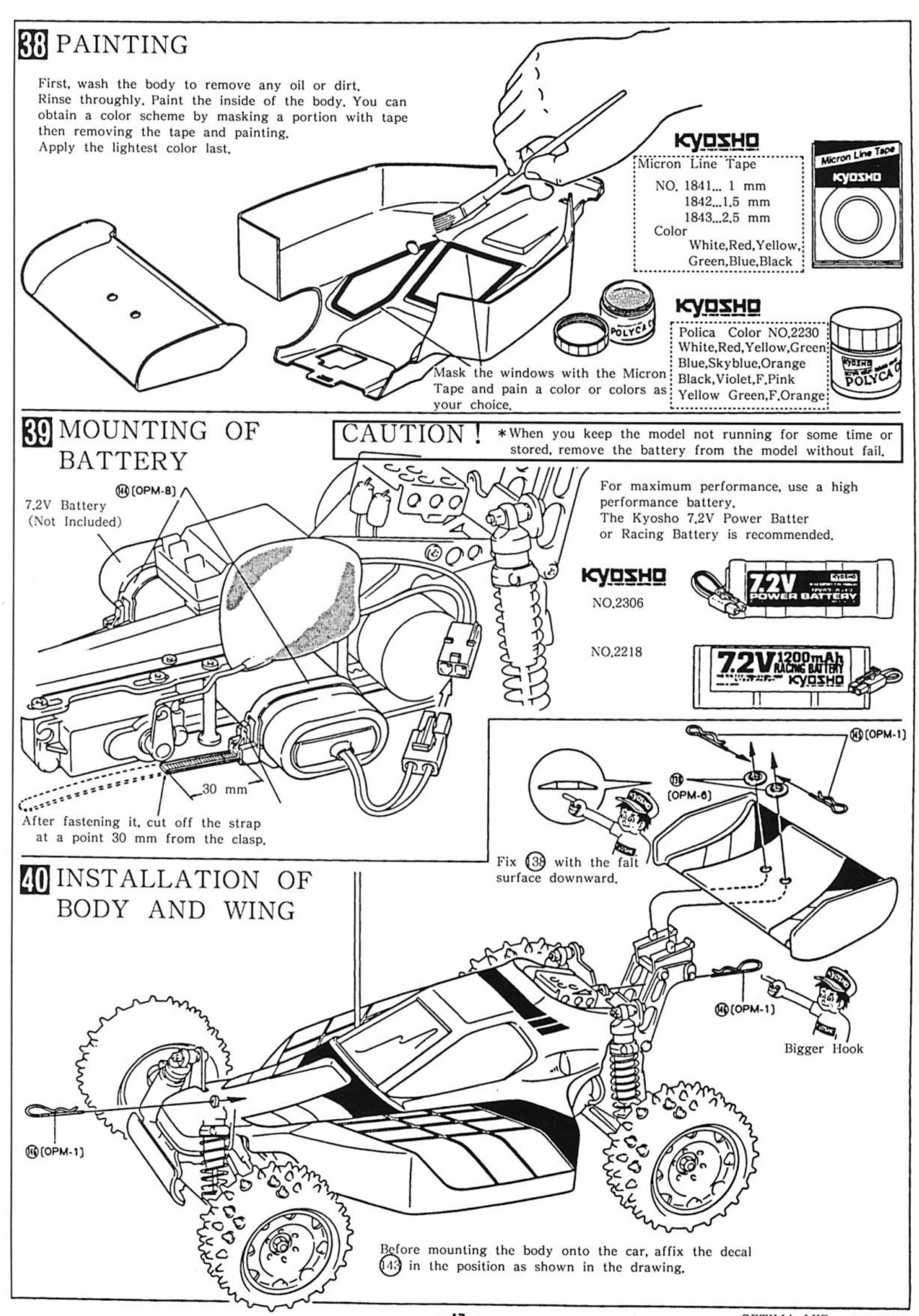


# 31 INSTALLATION OF SPEED CONTROL SERVO

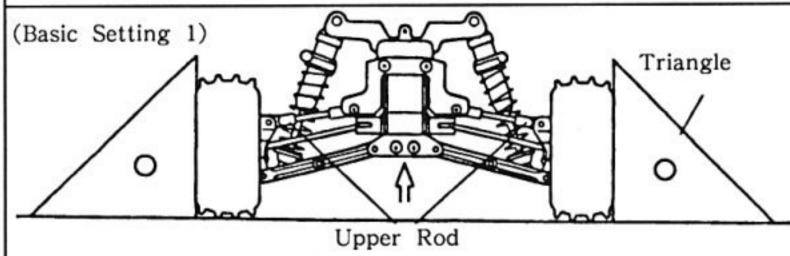




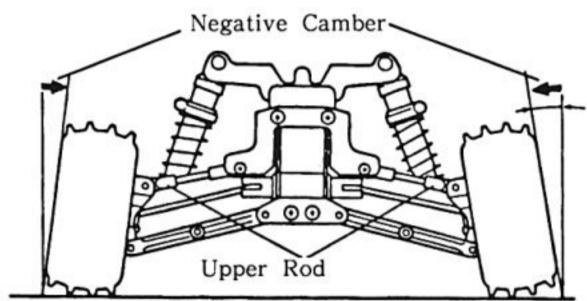




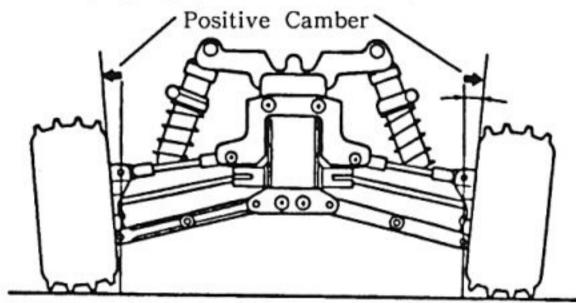
## Guide for Characterizing "Optima Mid"



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.

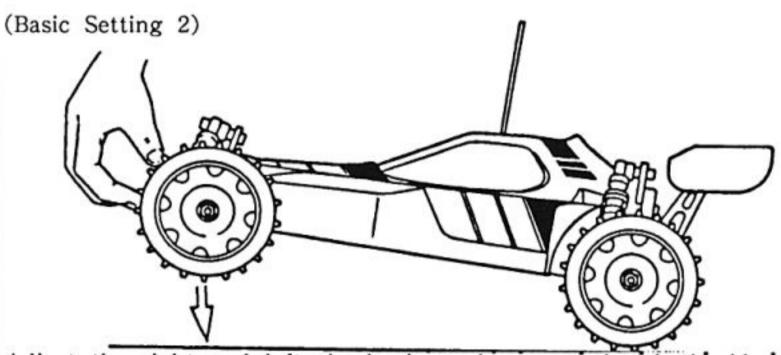


By adjusting the upper rod shorter, you will have a trait of negative camber. With negative camber adjustment on the front wheels, you will have sharper steering tendency, while on the rear wheel the gripping power becomes higher.

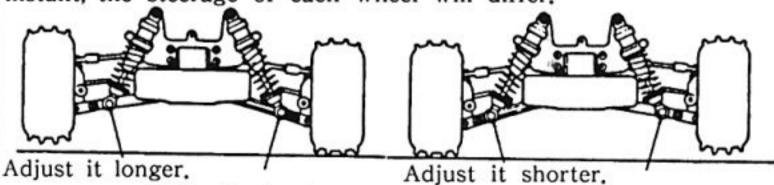


By lengthening the upper rod, positive camber adjustment is gained. With positive camber on the front wheels, you will have a trait of under steering, while on the rear wheels you will have the car with over steering traits.

> \*Excessive positve camber adjustment may make the swing shaft dislocated.



Adjust the right and left shocks in such a way that both sides of the front wheels will touch down the ground simultaneously when raising the front portion of the model and lowering it down gently. In the case the right and left side wheels land not in the same instant, the steerage of each wheel will differ.



Make it longer.

(Selection of Shock Oil and Adjustment of Spring)

Front	With lighter shock oil Lesser spring tension Sharper steering response
Front	With heavier shock oil Harder spring tension Slower steering response
Rear	With lighter shock oil Lesser spring tension Hi-gher gripping power
Rear	With heavier shock oil Harder spring tension Lower gripping power
nan managan and a same a	사용하다는 경기에 경기하면 하면 아직이 무슨 경기에 가장 살을 하면 먹었다. 이 가장 하는 것이 하면 하는 것이 하면 하는 것이 하는 것이 하는 것이 하는 것이다.

(Landing Attitude After a Leap)

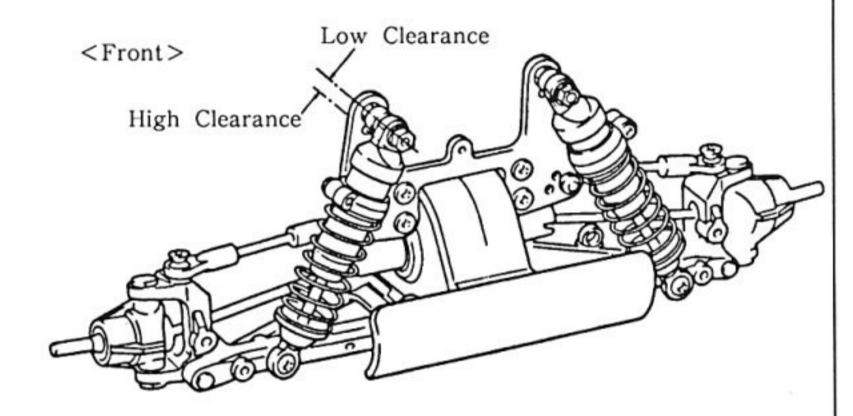
Harder spring tension of the front shocks and lighter oil in them will prevent a head down crash landing.

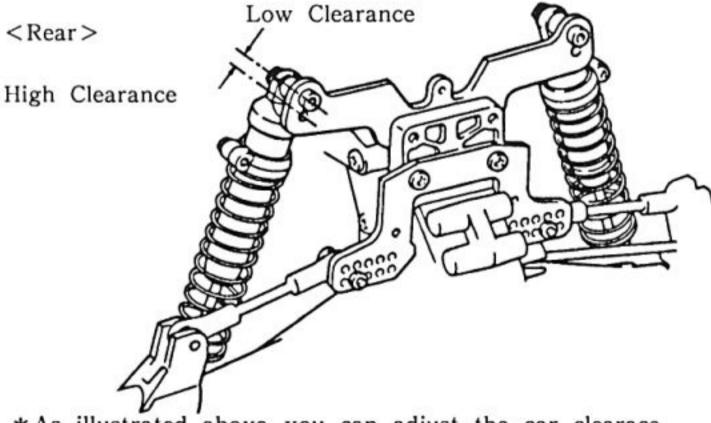
(Adjustment of Hardness of Shock Action)

NO.1951 Oil Set	Yellow	Green	Yellow	Red	Green	Red
Piston	60	9	9	9	9	9
Hardness	Har	der			Softer	

\*Take this chart just as general indication.

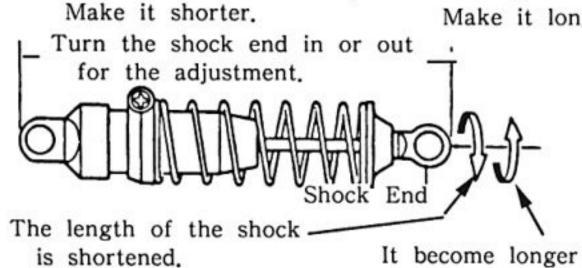
(Adjustment of Body Clearance)





\*As illustrated above, you can adjust the car clearace. A general hint is that you will make the car clearance lower on a turf course where it provides good gripping, and on a track which gives you poor gripping you will set the clearance higher.

(Gear Ratios and Optional Motors)



PinionGear	15	16	17	18	19	20	21	22	23	24	25
Gear Ratio	13.04	12,22	11.50	10.87	10.29	9.78	9.31	8.89	8.50	8.15	7.82
Pro-per		SPA	240	WS							
Motor				Le Mans H240S							
340343033113413460				L	e Man	s 240	ST				
			,					Le	Mans	360Gc	old

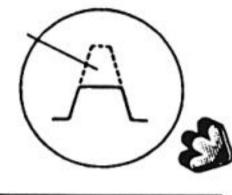
## Guide for Characterizing "Optima Mid" (2)

(Modification of Tire)

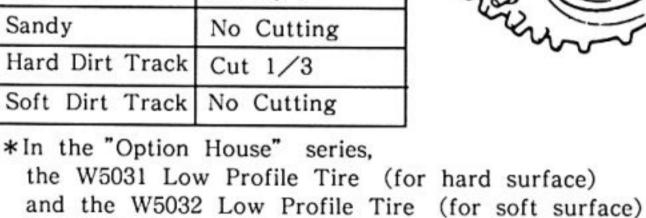
By changing the shape of the knobs on the tire, you can improve the running performance of the car.

\*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.

Let the knobs down.



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



#### (Adjustment of Differential Gear)

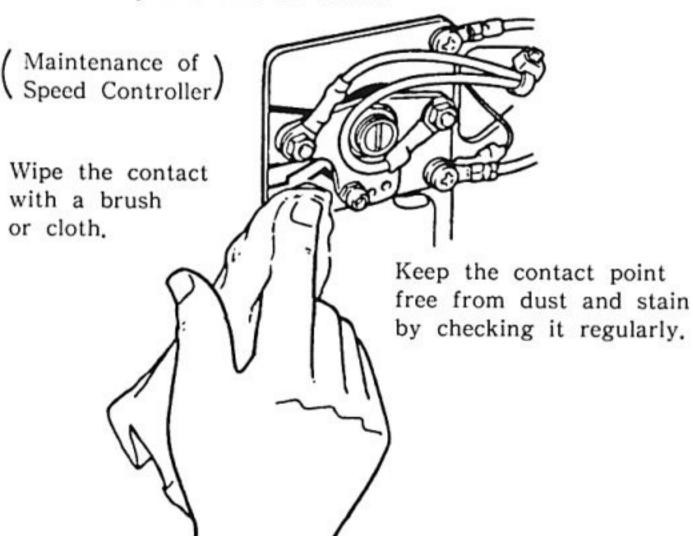
are available.

The working of the differential gear system depends on amount and viscosity of the oil in the system. When you like to make it heavier, put more the 1952 Differential Oil, and to the other way, mix 10% to 20 % shock oil with the differential oil in the system.

# (Change of Steering Characteristics ) by Adjustment of Differential

Adjustment of Differential		Steering Trait at High Speed Cornering
Front Differential (Heavier)	Neutral Steering	Under Steering
Rear Differential (Heavier)	Under Steering	Over Steering
Both Front and Rear (Lighter)	Over Steering	Neutral Steering

\*This is just a rule of thumb



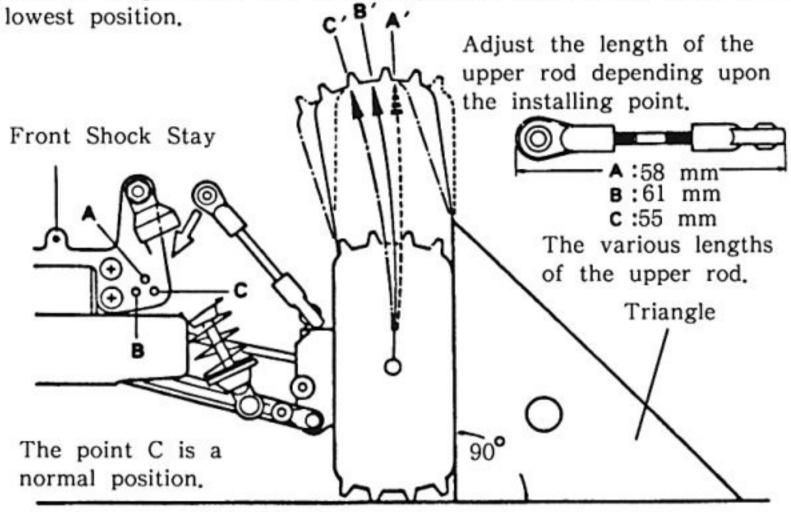
(Maintenance of Sprocket)

Dust or other foreign articles are subject to be accumulated on cogs of the sprockets in front and rear.

Check them from time to time.

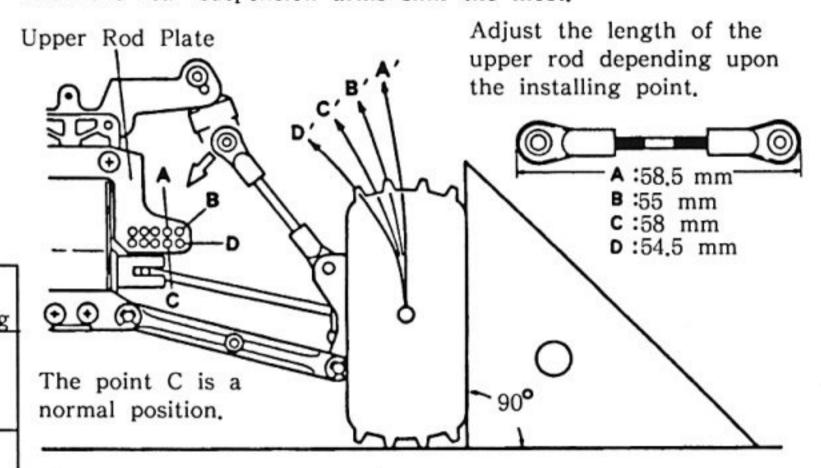
( Correlation between the Position of Front Upper Rod and Camber Angle)

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 chamber angle when the front suspension arms swing down to the



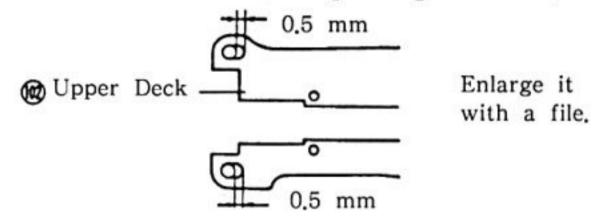
( Correlation between Installing Position of ) the Rear Upper Rod and Chamber Angle

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



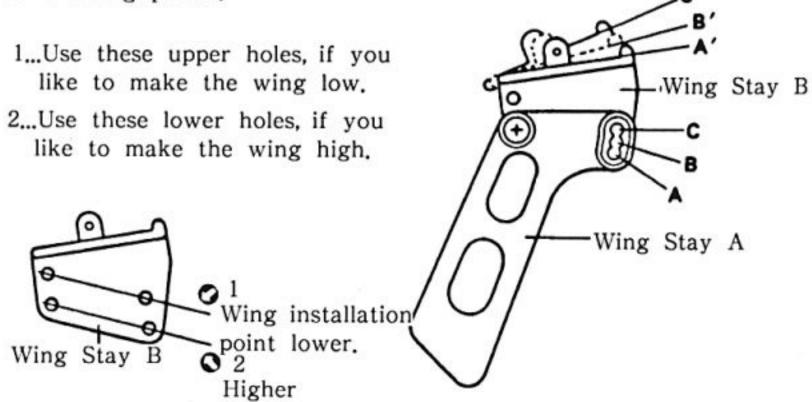
(Adjustment of Belt tension)

This model is so designed that the belt is engaged rather tightly. If you find it too tight to let it go smoothly, enlarge the hole on the upper deck toward the front end, and reassemble it by pushing the front gear box from the front and tightening the screw.



(Adjustment of Wing Stay)

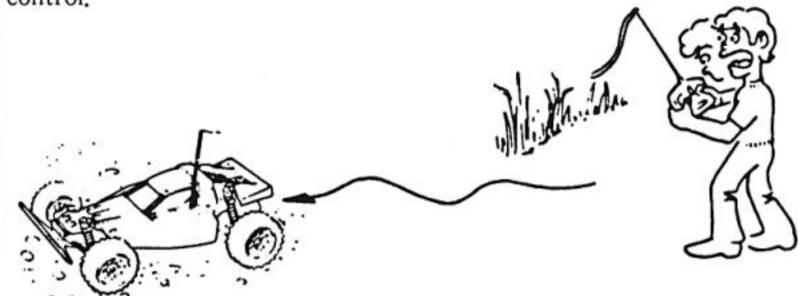
When fastening the wing stay B to the wing stay A, the assembled angle of the two components will be bigger in order from A to B to C fixing points.



### Things to Observe

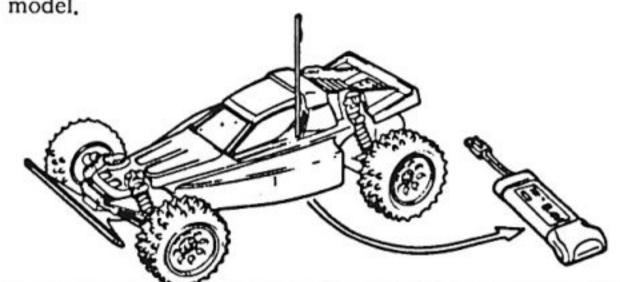
(Running the Optima Mid)

This model has only Ni-Cad battery powering the motor, receiver and servos at a time. Whenever you notice the car loosing the speed, discontinue the operation, otherwise your car will go out of control.



(After Running)

After you had a pleasure of running your car, unplug the connector from the battery. And store the battery separately from the model.



#### (Checking Your Car before Running)

- \*When you have your car run for the first time, drive it slowly for the duration of one to three charges of the Ni-Cad battery.
- (1) Check to see if all bolts and nuts are tightened firmly.
- (2) Check to see if Ni-Cad battery is fully charged.
- (3) Check to see if the steering and the speed control is in proportion to your control of the transmitter.
- (4) Check to see if all wiring are properly secured.
- (5) Check to see if all rotating parts move smoothly.

#### (Operation Procedures)

- (1) Turn on the switch of the transmitter.
- (2) Turn on the switch of the receiver.
- (3) Test the operation of the radio control units.
- \*When turning off the switches, turn off the receiver first, then the transmitter. If you don't keep this order, your model may start to run haphazardly.

#### (Trouble Shooting)

- (1) Poor contact of batteries, connectors, and speed controller.
- (2) Check to see if the Ni-Cad battery is properly charged.
- (3) Check to see shortage of battery power for the transmitter.
- (4) Check to see if there is no signal interference by other radios.

## Dos and Don'ts for Operation

Radio controlled model cars are powered by high effective Ni-Cad battery and can attain great speed. You are required to be very careful in handling them.

- Do not use the streets for running model cars.
- Two cars under the same frequency cannot run at a time.
   When there is another model going in the same time, compare the frequency of your radio with his.
- When your car stalled, or being caught by some obstacles, do not continue running forcibly. The motor and wiring may be burnt down or damaged.
- · Do not grab the rotating wheels.
- Before connecting the Ni-Cad battery, confirm that the speed controller is positioned in neutral.
- If the bearing in the driving train do not rotate smoothly, the motor and battery may be loaded excessively, resulting in loosing speed or overheating. Check always that the drive train will turn lightly and grease the bearings from time to time.
- The car with one battery for both motor and radio units will lose control as the battery power is falling. When the car slows down, stop the running.

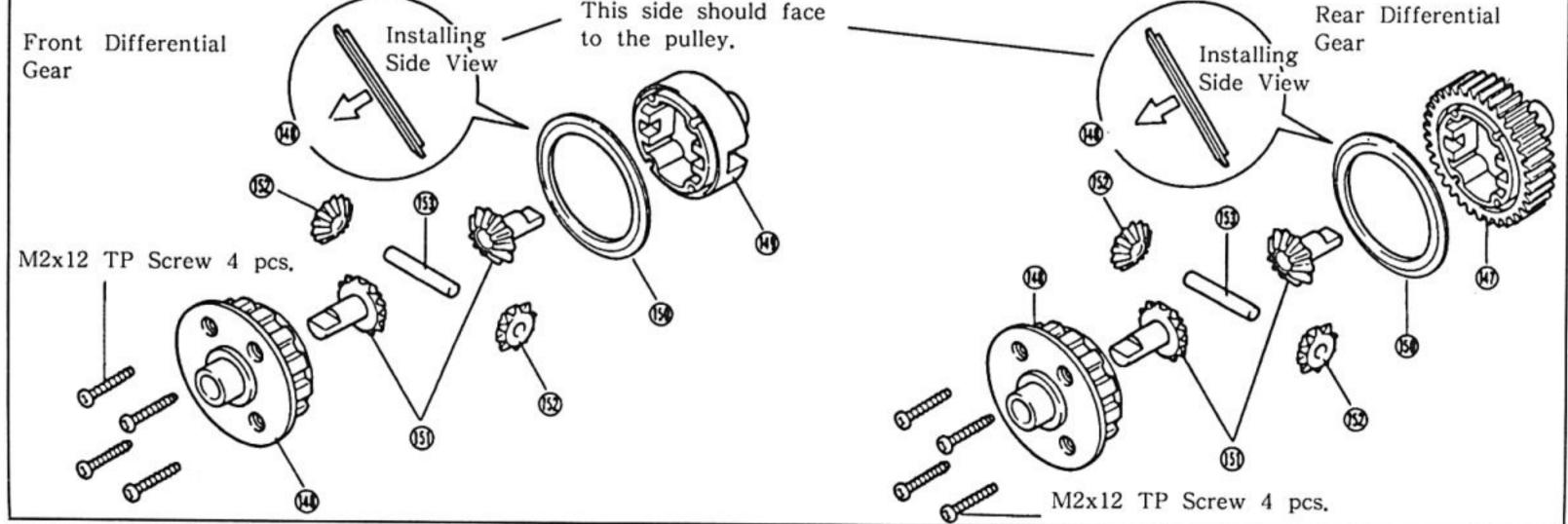
## Maintenance after Running The Car

- Remove the Ni-Cad battery from the car.
- · Wipe dirt and oily stain off the car.
- Turn off the switches of the radio control units.
- · Grease the moving parts periodically.
- Tighten the loose screws and nuts, if any.

## Handling the Motor

- The motor generates heat while it is running.
   A continuous running of the motor may shorten its span of life. Do not operate the motor until it cools off.
- Several times of running of the motor will decrease the power, since carbon has been accumulated on the commutator. Remove the pinion gear and run the motor without load under 7.2 volts for about 15 minutes for cleaning the commutator.
- Oil the motor bearings at regular intervals.

## Exploded View of Front & Rear Differential Gears



# "OPTIMA MID" KEY NUMBERS FOR PARTS

NO.	PARTS NAME	Q'TY	NO.	PARTS NAME	Q'TY	NO.	PARTS NAME	Q'TY
1	Tire	4	54	Front Suspension Arm	2	107	Rubber Cover (C)	1
2	Wheel	4	55	M3 Pillow Ball (Silver)	4	108	Allen Wrench (1,5 mm)	1
3	8 φ x14 Ball Bearing	4	56	Front Stabilizer End	2	109	Speed Control Nut	1
4	Joint	4	57	E Ring (E-3) (Black)	2	110	Speed Control Horn	1
5	Allen Wrench (2 mm)	1	58	Suspension Shaft (A)	2	111	Speed Control Pivot	1
6	Rear Gear Box (R)	1	59	: (B) (Silver)	2	112	Speed Control Stud	1
7	5 φ x10 Ball Bearing	10	60	E Ring (E-2.5)	20	113	Speed Control Spring	1
8	Spur Gear Shaft	1	61	5.8 φ Ball (Black)	4	114	Speed Control Contact	2
9 ,	2 φ x11 Pin	1	62	Allen Wrench (2.5 mm)	1	115	Motor Cord	2
10	Counter Gear	1	63	Ball End (L)	12	116	Connector (7.2V)	1
11	E Ring (E-4)	4	64	Upper Rod	4	117	Regulator	1
12	5 φ x8 Ball Bearing	2	65	Rear Hub (R)	1	118	BEC Connector	1
13	Pulley (Yellow)	1	66	Rear Hub (L)	1	119	Servo Spacer	2
14	Pulley Flange (Yellow)	1	67	Rear Shaft	2	120	Speed Control Rod	1
15	5 φ Collar (S) (Yellow)	2	68	Rear Suspension Arm	2	121	Resistor	1
16	4 φ x8 Ball Bearing	2	69	Suspension Shaft (C) Black	2	122	Heatsink (A)	1
17	Center Gear	1	70	Suspension Shaft (D)	2	123	Heatsink (B)	1
18	Center Gear Shaft	1	71	Rear Suspension Plate	1	124	Motor	1
19	Toothed Belt	1	72	Swing Shaft	4	125	Motor Cover	1
20	Rear Gear Box (L)	1	73	Shock Oil	1	126	Motor Cleaner	1
21	Rear Plate (L)	1	74	Front Shock Case	2	127	Motor Plate	1
22	Rear Plate (R)	1	75	Rear Shock Case	2	128	Pinion Gear (20T)	1
23	5 φ Collar (L) (Yellow)	1	76	Shock Piston	4	129	Gear Cover	1
24	Gear Protecter Plate (B)	1	77	Front Shock Shaft	2	130	Double Sided Tape	1
25	Gear Protecter Washer	2	78	Rear Shock Shaft	2	131	Antenna Post	1
26	Spur Gear	.1	79	Shock O Ring (Red)	8	132	Antenna Pipe	1
27	Gear Protecter (A)	1	80	Shock Collar (White)	4	133	Strap (S)	3
28	Wave Washer	3	81	Plastic Washer (Black)	4	134	Wing Stay (A) (L)	1
29	Gear Protecter Collar	1	82	C Ring	4	135	Wing Stay (A) (R)	1
30	Upper Rod Plate	1	83	Shock Cap	4	136	Wing Stay (B)	2
31	Rear Shock Stay	1	84	Pressure Top	4	137	Wing Stay Joint	2
32	Front Gear Box (R)	1	85	Spring Stopper	4	138	Wing Washer	2
33	Front Gear Box (L)	1	86	Shock End	4	139	5 φ Shim	8
34	Front Shock Stay	1	87	Front Spring	2	140	Drive Washer	4
35	Front Suspension Plate	1	88	Rear Spring	2	141	Body	1
37	Chassis	<del>                                     </del>	89	Spring Holder	4	142	Wing	1
38	Bumper  Dalt Course (A)	<del>                                     </del>	90	Shock Bushing	4	143	Decal	1
39	Belt Cover (A)	1	91	Ball End (S)	4	144	Ni-Cad Strap	2
40	One Touch Tape	2	92	Ball Nut	4	145	Wing Pin	2
41	Sponge Tape Saver Shaft	2	93	Servo Saver (A)	1	146	Body Pin	2
42	Upper Deck Post	2	94	Servo Saver (B)	1	147	Main Gear	1
43	Upper Deck Post Upper Deck Mount	1	95	Servo Saver (C)	1	148	Sprocket	2
44	Rear Suspension Pivot	<u>'</u>	96 97	Servo Saver (D)			Differential Gear Case	1
45	Battery Holder	2	98	Servo Saver Collar	2	150	Differential Gear Ring (Y)	2
46	Knuckle Arm (L)	1	99	Tie Rod	2	151	Bevel Gear (A)	4
47	Knuckle Arm (R)	1	100	Steering Rod Servo Stay	- 4	152	Bevel Gear (B)	4
48	Front Shaft	2	101	Servo Stay Spacer	2	153	Bevel Gear Shaft	2
49	M2,6 Pillow Ball (Black)	4	102	Upper Deck	1	154	Heatsink Collar M3 Plastic Nut	
50	Front Hub (R)	1	103	Switch Plate	1	156		1
51	Front Hub (L)	1	104	Belt Cover (B)	1	157	Speed Control PC Board	-
52	King Pin	4	105	M2 Shaft	1	158	Silicone Grease Screw Locking Compound	2
53	5.8 φ Ball (Silver)	4	106	Rubber Cover	1	130		1
	(5/1/01)	<u> </u>		Industri Cover	_ '		Motor Condencer OPTIMA MID	NO. 3135

-21-

OPTIMA MID NO. 3135

# "OPTIMA MID" BAGGED PARTS LIST (1)

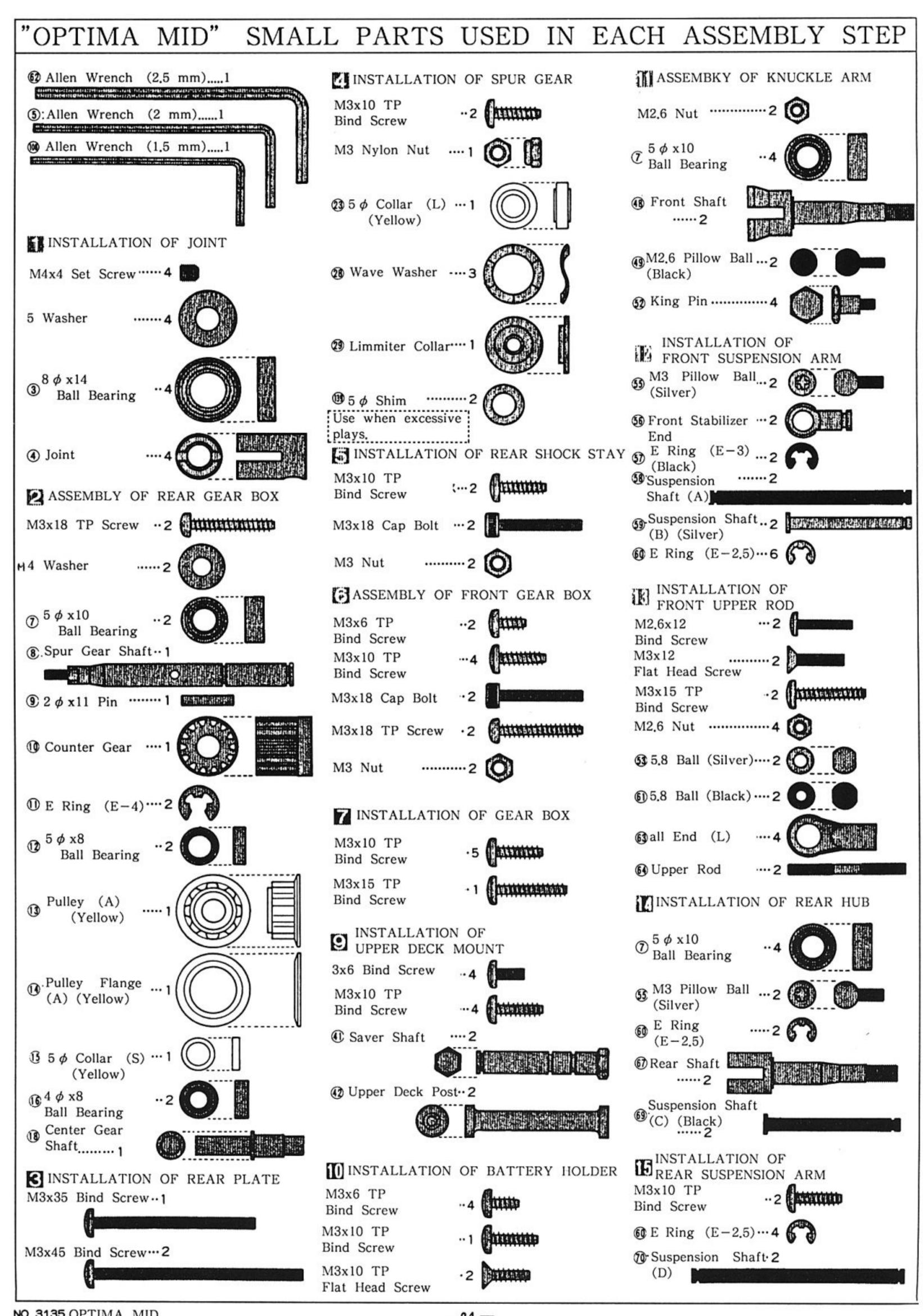
BAG.	NO.	PARTS NAME	Q'TY	Step
	4	Joint	4	D
	10	Counter Gear	1	22
	17	Center Gear	1	2
	26	Spur Gear	1	4
Blister	42	Upper Deck Post	2	9
(A)	46	Knuckle Arm (L)	1	10
	47	Knuckle Arm (R)	1	00
	48	Front Shaft	2	00
	67	Rear Shaft	2	14
ì	72	Swing Shaft	4	DE 003
	128	Motor Pinion Gear (20T)	1	29
	140	Drive Washer	4	86
	3	8 φ x14 Ball Bearing	4	П
	7	5 φ x10 Ball Bearing	10	22 00 00
	12	5 φ x8 Ball Bearing	2	2
	16	4 φ x8 Ball Bearing	2	22
	19	Toothed Belt	1	2
Blister	54	Front Suspension Arm	2	122
(B)	68	Rear Suspension Arm	2	14
	116	Connector (7.2V)	1	30
	122	Heatsink (A)	1	80
	123	Heatsink (B)	1	810
	124	Le Mans 240ST Motor	1	20
	Ass'y	Front Differential Gear	1	0
	Ass'y	Rear Differential Gear	1	0
	Ass'y	Pressure Oil Shock (S)	2	09
	Ass'y	Pressure Oil Shock (L)	2	100
	6	Rear Gear Box (R)	1	2
	20	Rear Gear Box (L)	1	2
	32	Front Gear Box (R)	1	6
	33	Front Gear Box (L)	1	6
	60	E Ring (E-2.5)	4	119
	73	Shock Oil	1	20
	76	Shock Piston	4	10
OPM-2	79	Shock O Ring (Red)	8	100
	80	Shock Collar (White)	4	ED
	81	Plastic Washer (Black)	4	<b>©</b>
	82	C Ring	4	19
	84	Pressure Top	4	20
		Cap Bolt M3x18	4	<b>5</b>
İ	157	Silicone Grease	1	2 4 29
-	158	Screw Locking Compound	2	
0PM-3	2	Wheel	4	835
	8	Spur Gear Shaft	1	<b>53</b>
OPM-4	9	2 φ x11 Pin	1	2
	18	Center Gear Shaft	'	
10.0405	OPTIM			2

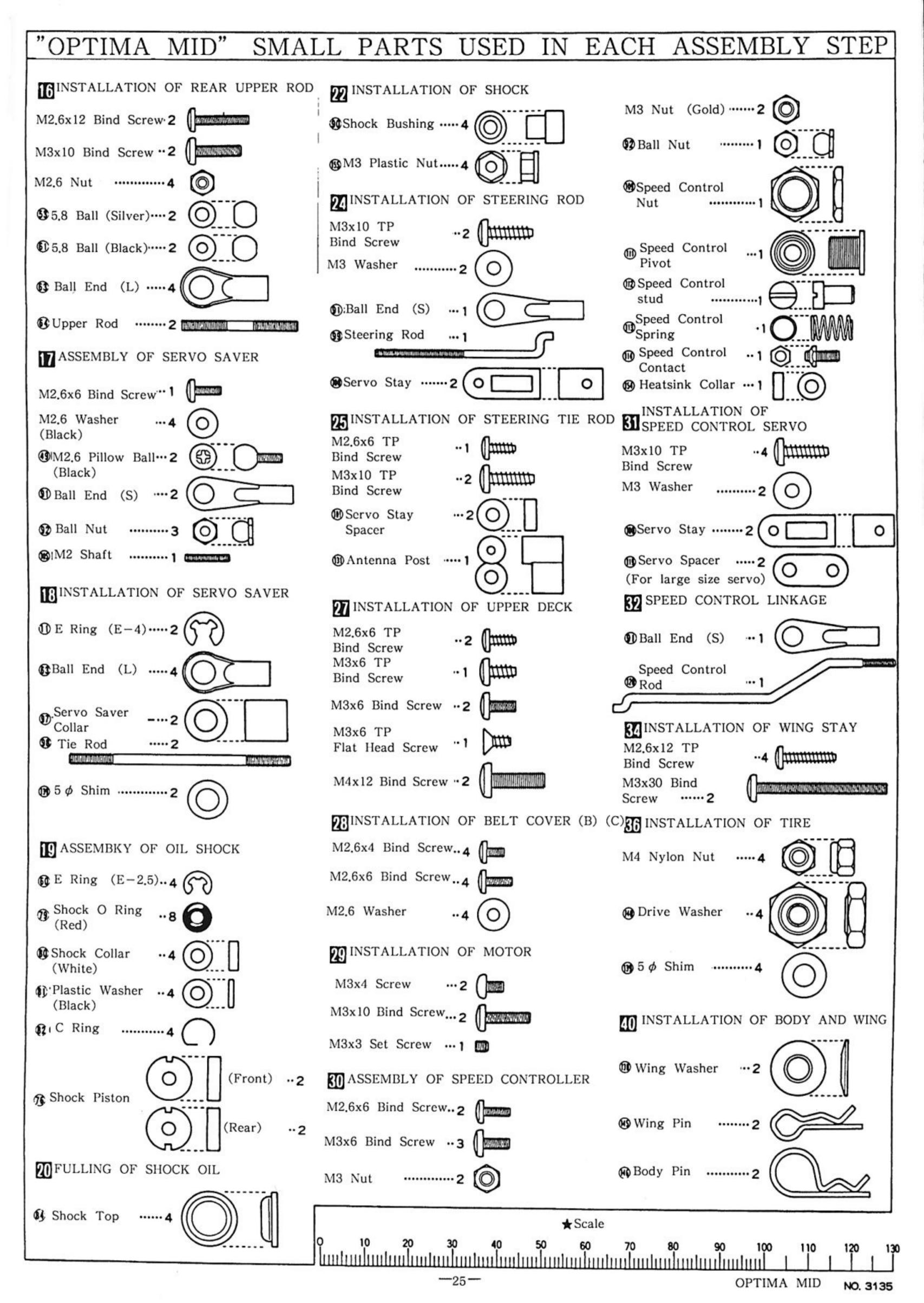
BAG	NO.	PARTS NAME	Q'TY	Step
	24	Gear Protector Plate (B)	1	4
	25	Gear Protector Washer	2	4
	29	Gear Protector Collar	1	4
OPM-4	41	Saver Shaft	2	<b>1</b>
OF M-4	52	KIng Pin	4	00
	61	5.8 φ Ball (Black)	4	03 03
	92	Ball Nut	4	DZ 830
	154	Heatsink Collar	1	ETO
	21	Rear Plate (L)	1	ß
	22	Rear Plate (R)	1	<b>E</b> 3
	27	Gear Protector Plate (A)	1	4
	30	Upper Rod Plate	1	4
орм-5	31	Rear Shock Stay	1	5
	34	Front Shock Stay	1	6
	35	Front Suspension Plate	1	15
	71	Rear Suspension Plate	1	115
	127	Motor Plate	1	29
	13	Pulley (Yellow)	1	2
	14	Pulley Flange (Yellow)	1	2
	15	5 φ Collar (S) (Yellow)	2	2
	23	5 φ Collar (L) (Yellow)	1	4
	37	Bumper	1	DE
	43	Upper Deck Mount	1	Ð
	44	Rear Suspension Pivot	1	<u> </u>
	45	Battery Holder	2	00
	50	Front Hub (R)	1	00
	51	Front Hub (L)	1	00
	56	Front Stabilizer End	2	02
	65	Rear Hub (R)	1	14
	66	Rear Hub (L)	1	121
	90	Shock Bushing	4	22
орм-6	93	Servo Saver (A)	1	002
	94	Servo Saver (B)	1	00
	95	Servo Saver (C)	1	00
	96	Servo Saver (D)	1	07
	97	Servo Saver Collar	2	08
	100	Servo Stay	4	22 11
	101	Servo Stay Spacer	2	25
	103	Switch Plate	1	27
	119	Servo Spacer	2	<u> </u>
	131	Antenna Post	1	25
	134	Wing Stay A (L)	1	REG.
	135	Wing Stay A (R)	1	134
	136	Wing Stay B	2	R
	137	Wing Stay Joint	2	83
	138	Wing Washer	4	<b>10</b> :
		1		

# "OPTIMA MID" BAGGED PARTS LIST (2)

		OFTIMA		<i>J</i> Dr
BAG	NO.	PARTS NAME	Q'TY	Step
орм-6	155	M3 Plastic Nut	4	22
	49	M2.6 Pillow Ball (Black)	4	DD 077
	53	5.8 φ Ball (Silver)	4	
	55	M3 Pillow Ball (Silver)	4	02) 02
	58	Suspension Shaft (A)	2	12
	59	Suspension Shaft (B) (silver)	2	12
0РМ-7	63	Ball End (L)	12	03 06 08
	64	Upper Rod	4	113 116
	69	Suspension Shaft (C) (Black)	2	123
	70	Suspension Shaft (D)	2	115
	91	Ball End (S)	2	107
	98	Tie Rod	2	18
	36	Chassis	1	Z
	38	Belt Cover (A)	1	В
	39	One Toutch Tape	2	8
	102	Upper Deck	1	9
	104	Belt Cover (B)	1	28
0014.0	107	Belt Cover (C)	1	223
OPM-8	115	Motor Cord	2	220
	125	Motor Cover	1	29
	126	Motor Cleaner	1	79
	129	Gear Cover	1	29
	132	Antenna Pipe	1	133
	144	Ni-Cad Strap	2	833
	40	Sponge Tape	2	28
	91	Ball End (S)	2	24
	99	Steering Rod	1	22
	106	Rubber Cover	1	28
	110	Speed Control Horn	1	800
	111	Speed Control Pivot	1	80
	112	Speed Contro Stud	1	800
OPM-9	113	Speed Control Spring	1	30
OPM-9	114	Speed Control Contact	2	30
	117	Regulator	1	223
	118	BEC Connector	1	ETO
	120	Speed Control Rod	1	122
	121	Resistor	1	RO
	130	Both Side Tape	1	100
ł	133	Strap (S)	3	12 E
	156	Speed Control PC Board	1	EU (EV)
		Motor Condencer	1	29
	1	Tire	4	835
041	141	Body	1	BZZ
Others	142	Wing	1	877
	143	Decal	1	38
		Instruction		

BAG	PARTS NAME	Q'TY	
	M2.6x4 Bind Screw	4	
	M2.6x6 Bind Screw	7	
	M2.6x12 Bind Screw	4	
	M3x6 Bind Screw	9	
	M3x10 Bind Screw	4	
	M3x30 Bind Screw	2	
	M3x35 Bind Screw	1	
	M3x45 Bind Screw	2	
	M4x12 Bind Screw	2	
	M3x4 Screw	2	
	M3x12 Flat Head Screw	2	
	M2.6x6 TP Bind Screw	3	
	M2.6x12 TP Bind Screw	4	
	M3x6 TP Bind Screw	7	
	M3x10 TP Bind Screw	28	
	M3x15 TP Bind Screw	3	
	M3x18 TP Screw	4	
	M3x6 TP Flat Head Screw	1	
	M3x10 TP Flat Head Screw	2	
OPM-1	M2.6 NUt	14	
	M3 NUt	6	
	M3 Nut (Gold)	2	
1	(109) Speed Control Nut	1	
	M3 Nylon Nut	1	
	M4 Nylon Nut	4	
	M2.6 Washer	8	
	M3 Washer	4	
	M4 Washer	2	
	M5 Washer	4	
	5 φ Shim	8	
	28) Wave Washer	3	
	M3x3 Set Screw	1	
	M4x4 Set Screw	4	
	60 E Ring (E-2.5)	13	
	57 E Ring (E-3) (Black)	3	
	11 E Ring (E-4)	5	
	(45) Wing Pin (S)	2	
	Body Pin (L)	2	
	(03) M2 Shaft	2	
	(1.5 mm)	1	
	(5) Allen Wrench (2.0 mm)	1	
	62 Allen Wrench (2,5 mm)	1	
	50/49/50	0.000.000.000	ALCON CHICAGO DESCRIPTION

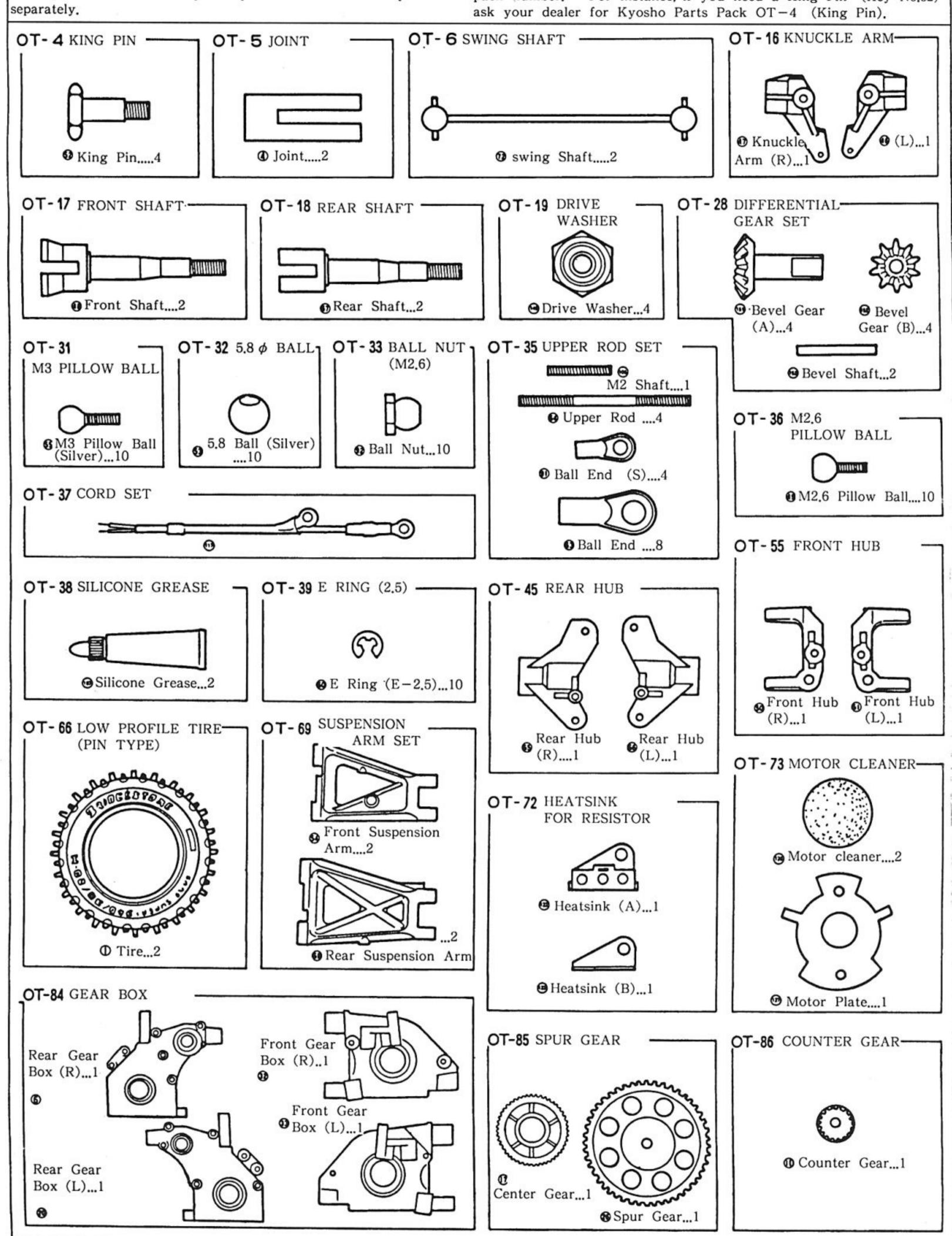


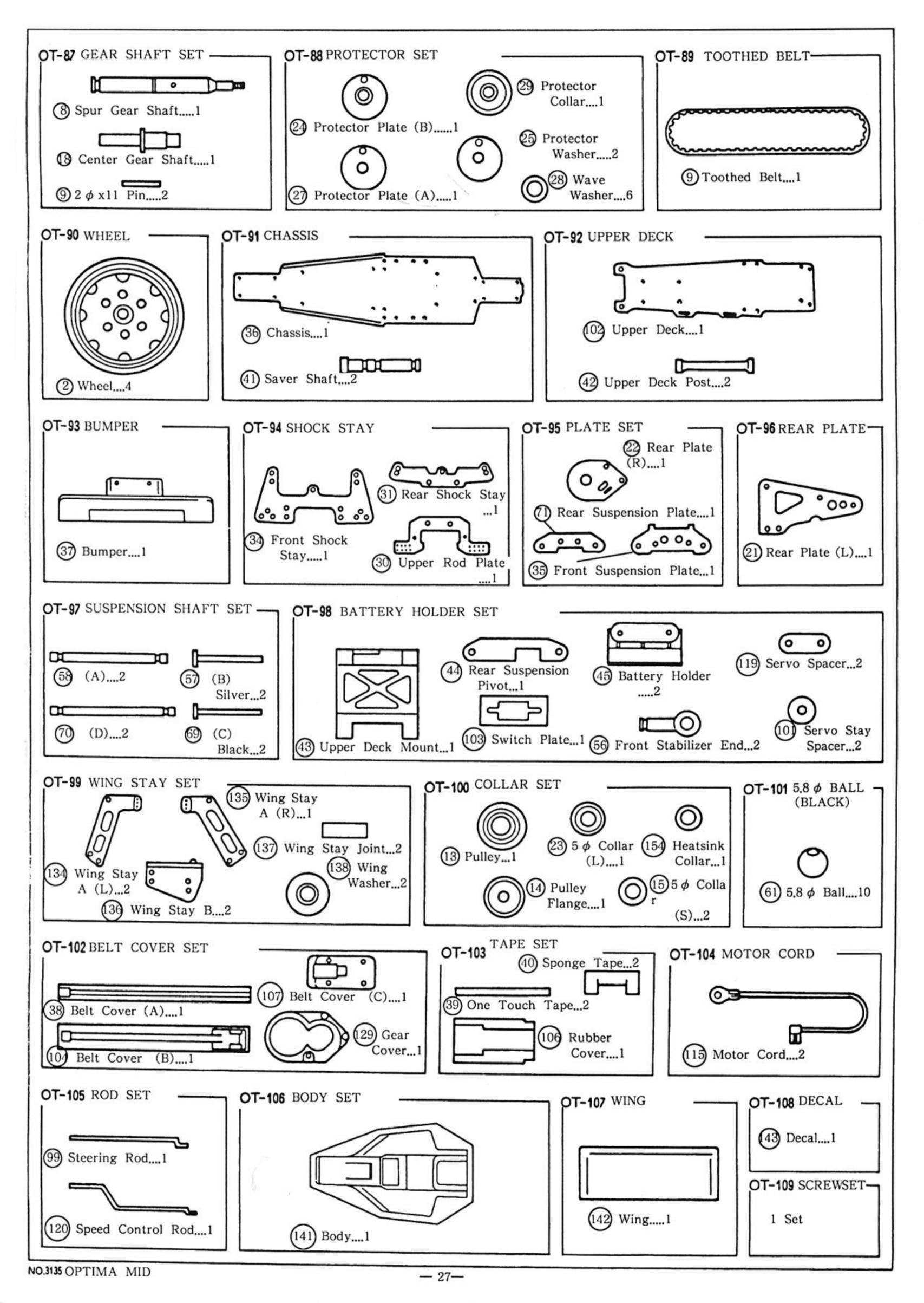


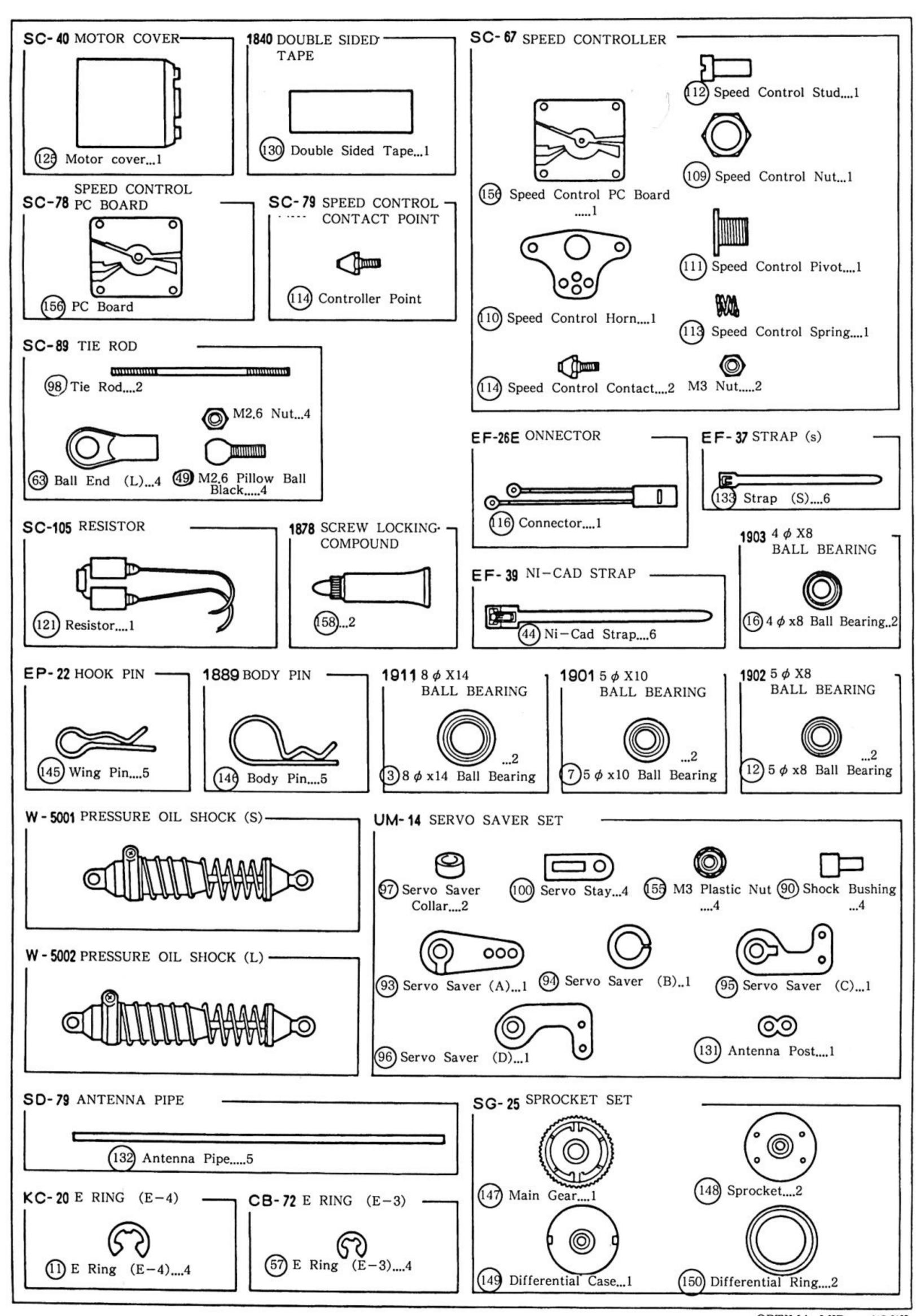
## PURCHASING PARTS FOR YOUR KIT

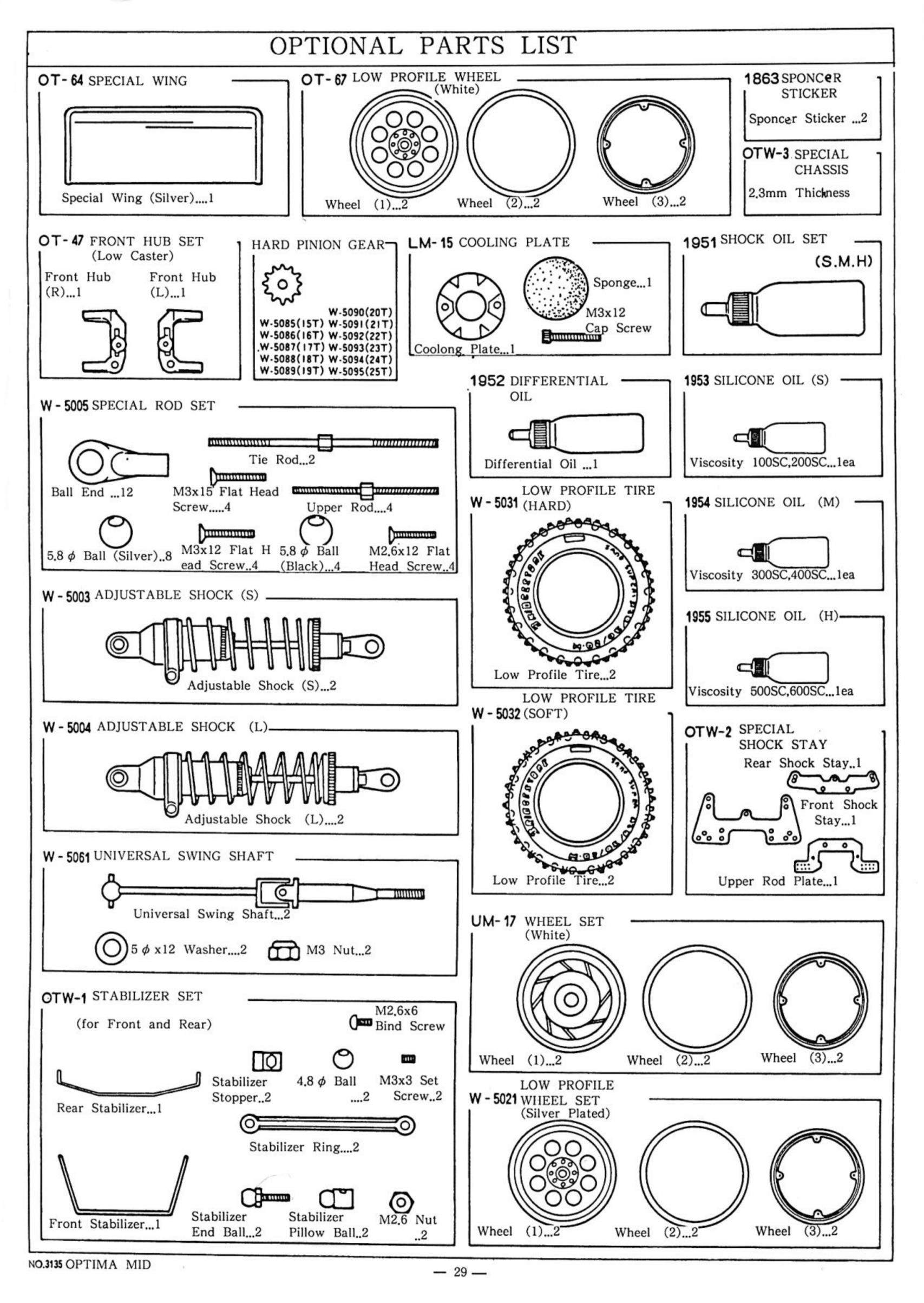
You can purchase replacement and optional parts for your kit. complete list) are usually not available singularly, but we offer

To figure out which parts pack you need, find the key number for All of the part indentified by key numbers (see page 21 for a that part within the manual. Then consult our parts pack guide, below. When referring to the parts you need, always use the parts these parts in convenient parts "packs" which can be purchased pack number. For instance, if you need a King Pin (Key No.52) ask your dealer for Kyosho Parts Pack OT-4 (King Pin).









-The Super Hobby-

