RADIO CONTROLLED ELECTRIC POWERED SPECIAL RACING BUGGY

4WD OFF-ROAD RACER

# TURBO OPTIMA MID

• FOUR-WHEEL DRIVE BY LIGHTWEIGHT, EFFICIENT TOOTHED BELT.

**EXTRA-LONG SUSPENSION TRAVEL FOR TOP HANDLING.** 

• MID-SHIP MOTOR POSITION FOR BEST WEIGHT DISTRIBUTION.

• STRONG, LIGHT ALUMINUM-ALLOY PLATE CHASSIS.

OVERSIZE PRESSURE SHOCKS. ANTI-SWAY BARS F/R.

•GLASS-REINFORCED SUSPENSION ARMS FOR STRENGTH WITH LIGHT WEIGHT.

**OLOW-PROFILE HIGH-GRIP TIRES.** 

•HIGH PERFORMANCE: LIGHT WEIGHT WITH TOP SUSPENSION ACTION.

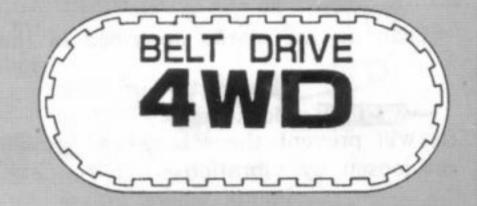
#### 1:10 SCALE

BATTERY: 7.2V-1200mAh

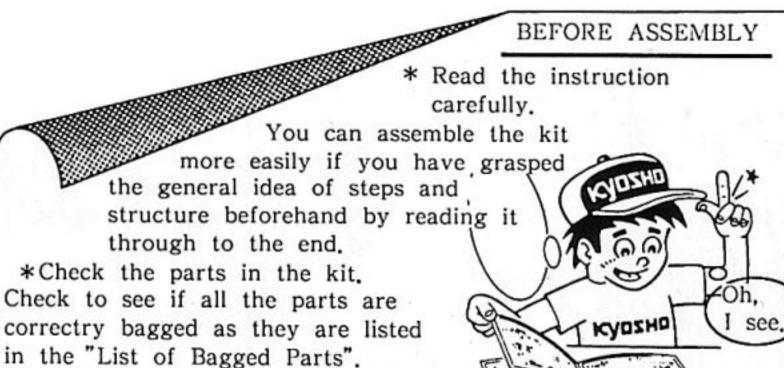
RADIO: 2ch.

MOTOR: LeMMANS 240/360 TYPE

[NOT INCLUDED]







assembly will enable you to build the kit without any difficulty. Check the components in the kit prior to your startings of the assembly.

Your through understanding of the



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

\*Lean on the marks described in the instruction.

Places to put some - locktite. (It will prevent the screws and nuts get loosen by vibration while running.) Points where grease

GREASE ... should applied. (It will reduce friction are assure smooth movements.)

\*Things need besides the kit.

Steps where you particular attention is required.

(Ni-Cd Battery)

"Turbo Optima Mid" iturbuigned to use a rechargeable Ni-Cad Battery pack.

7.2VSprint Battery and 7.2V Racing Battery are ideal for the purpose. (Motor)

The Turbo Optima Mid not come with a motor. A Le Mans series type motor

is recommended for top performance. (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.

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.

Two types of radio control set are on the market, the stick type and the steering wheel type. Choose which ever you like. Transmitter Servo Speed Control Amp. (2 Channel Radio System) Receiver

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

Self Tapping Screw Coarser Thread 2 The kinds of screws which will be used in this instruction. Truss Screw-( Bind Screw\_ Flat Head Screw

\*Be well aware of the different types of screws. 1 The difference between the TP screw (short form of self-tapping screw) and the ordinarly screw is .....

Ordinary Screw Some of them Pointed tips. Finer Thread

> Set Screw A hexagonal hollow in place

of screw head.

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

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Cap Screw F Small Parts

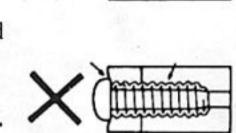
Check up small parts with the list.

\*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.

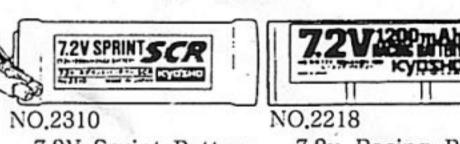
\*Do not tighten the self-tapping screw too tight.

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 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.

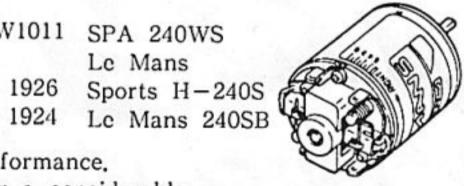
Good



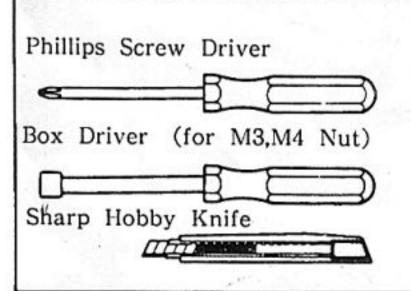
NO.W1011 SPA 240WS

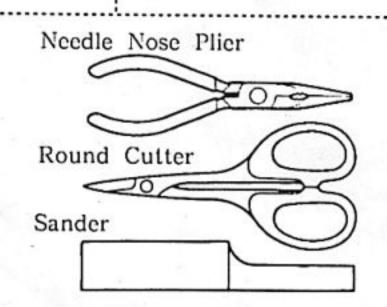
Le Mans

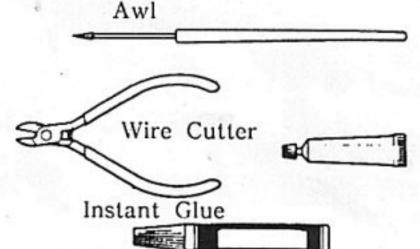
7.2V Sprint Battery 7.2v Racing Battery

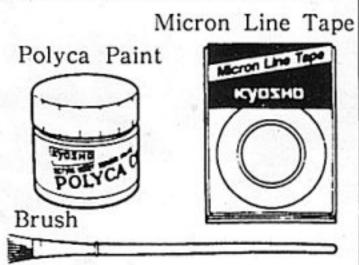


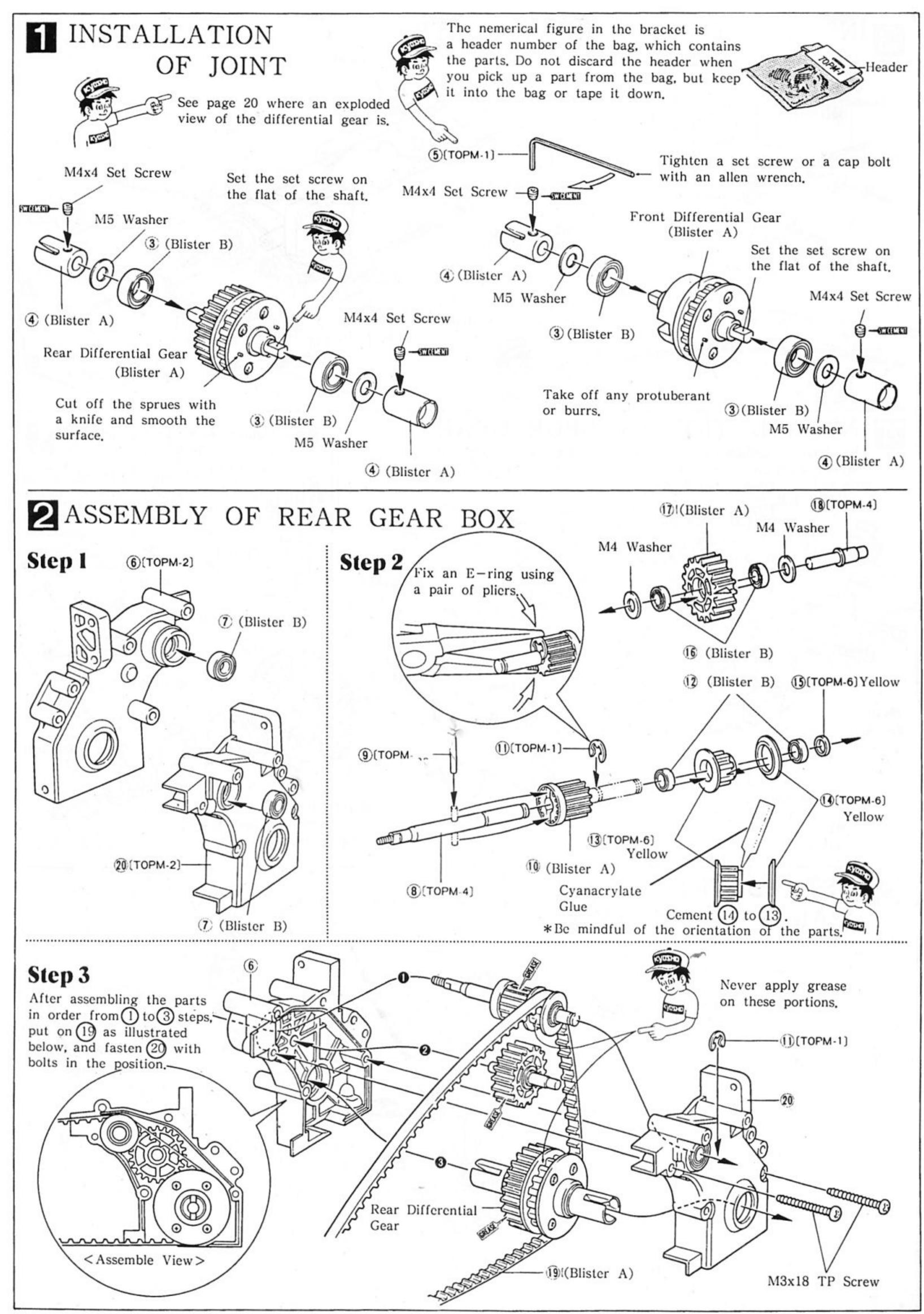
Use one of the Chargers listed below which suits your need.

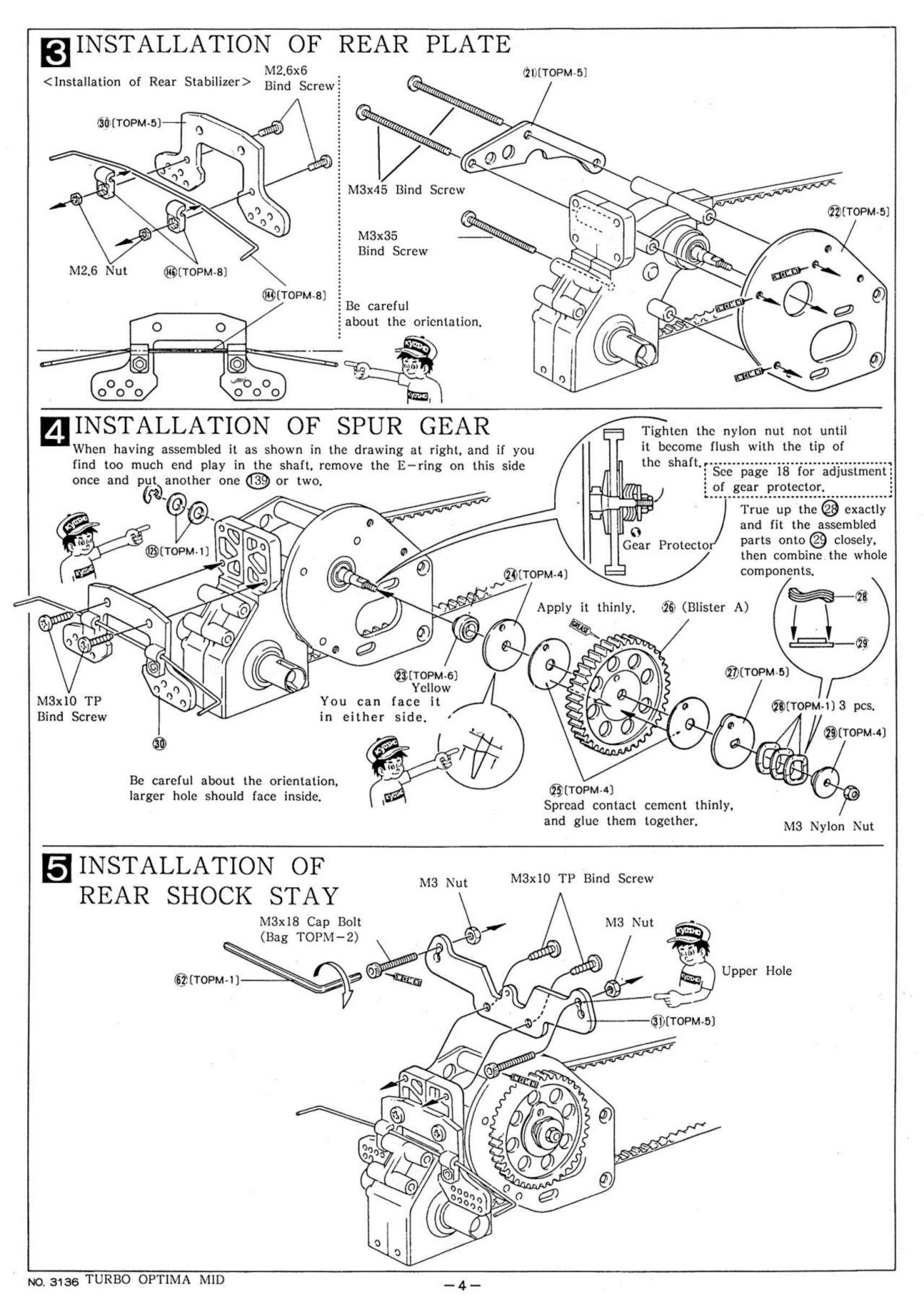


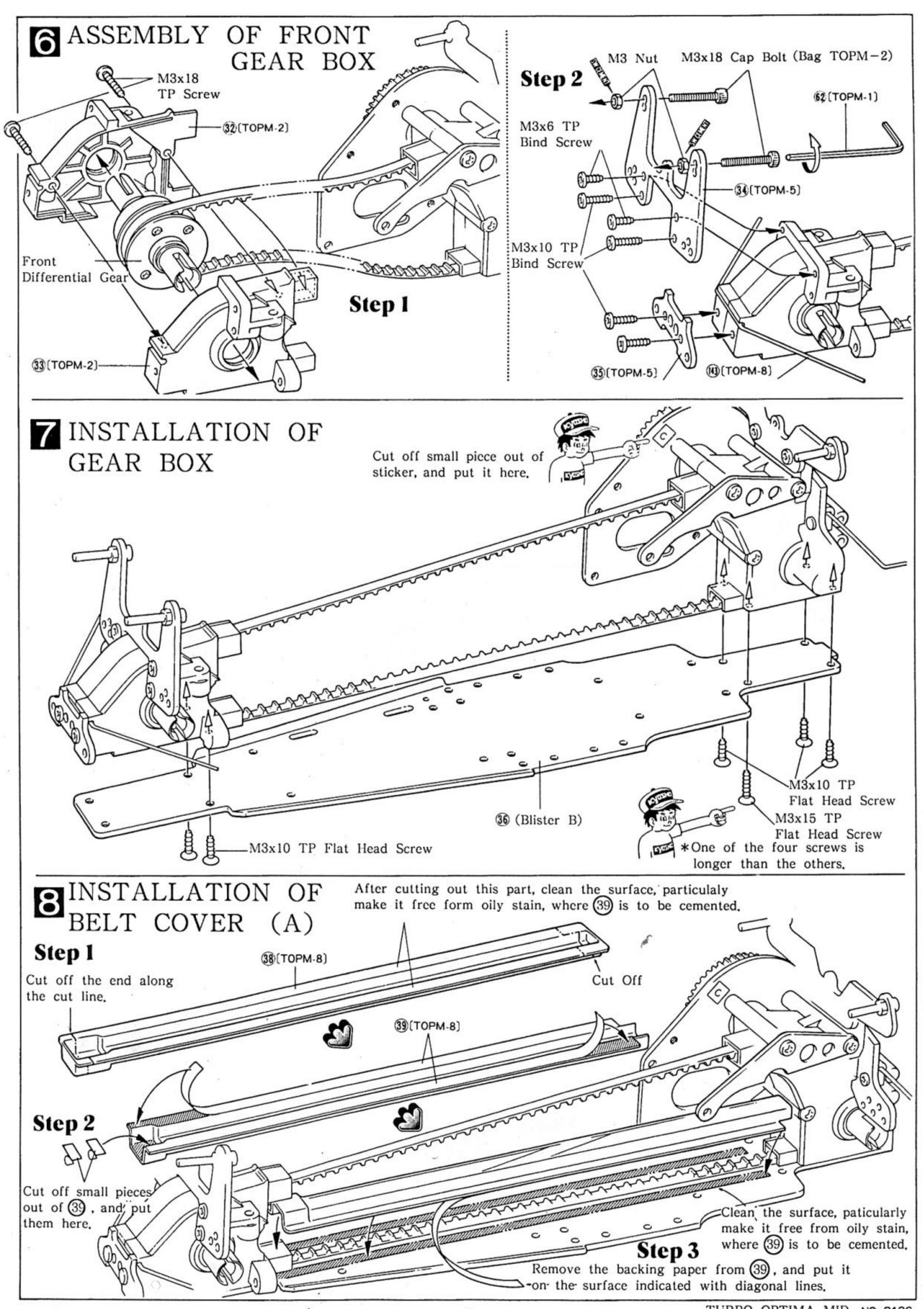


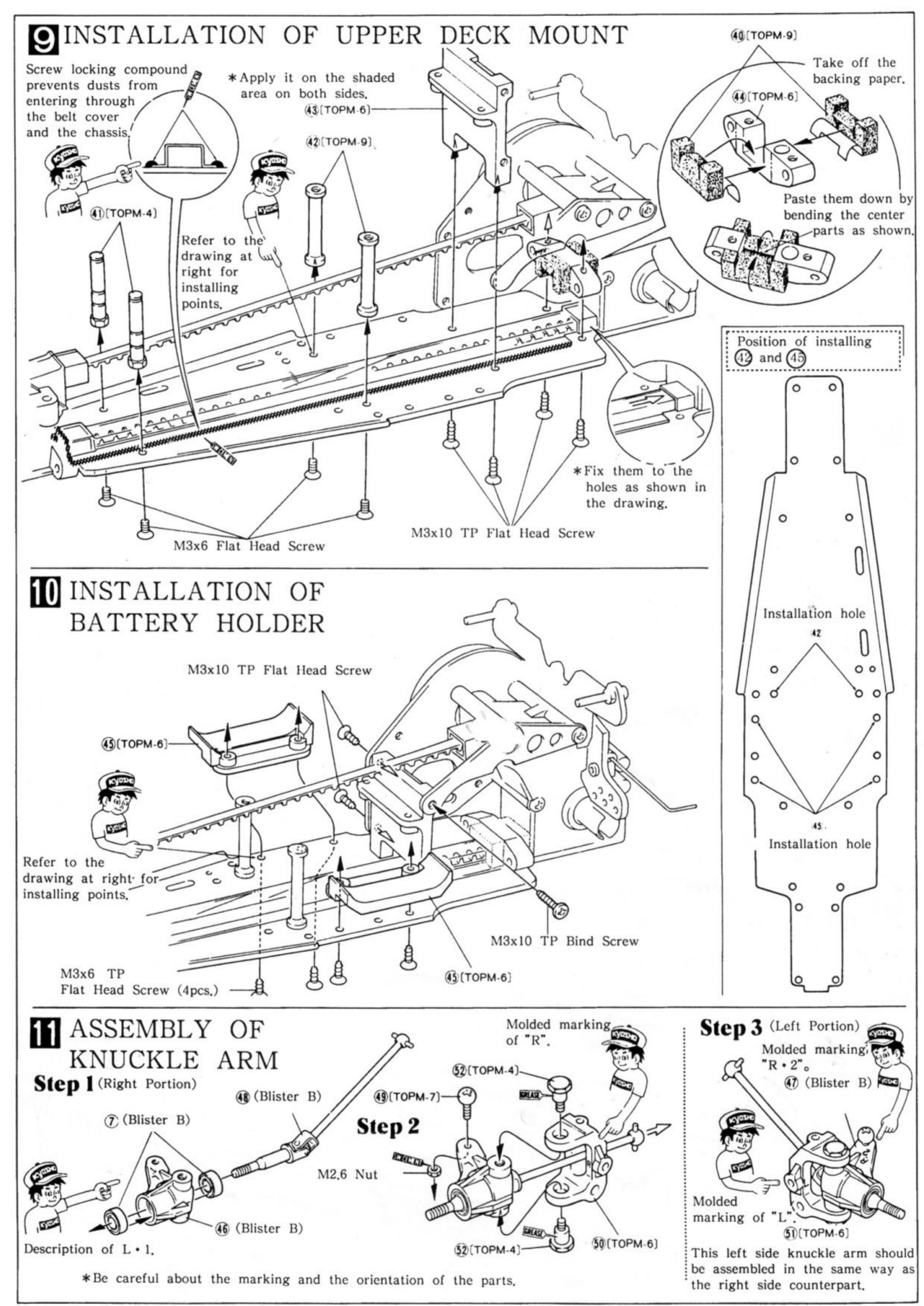


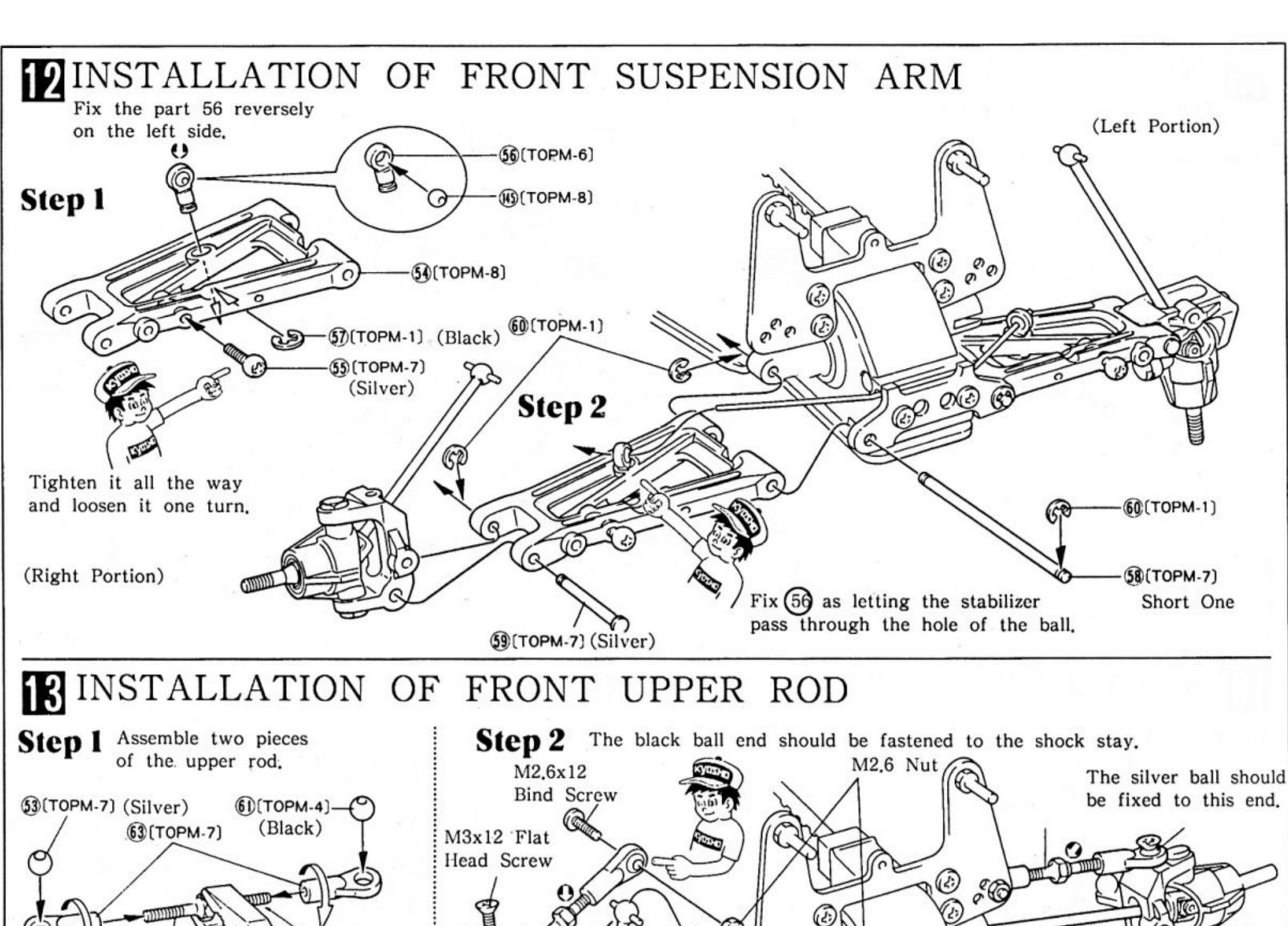


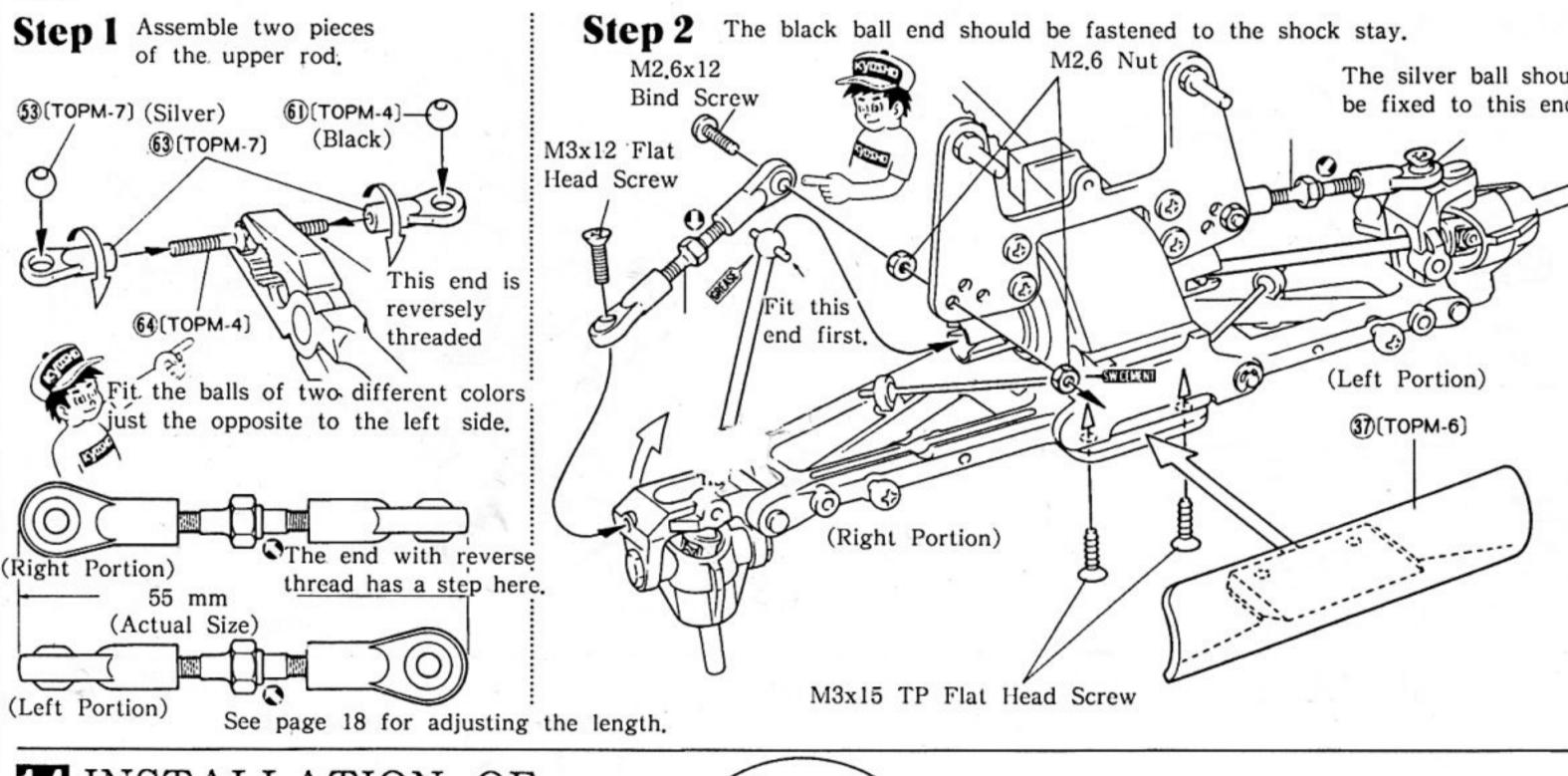


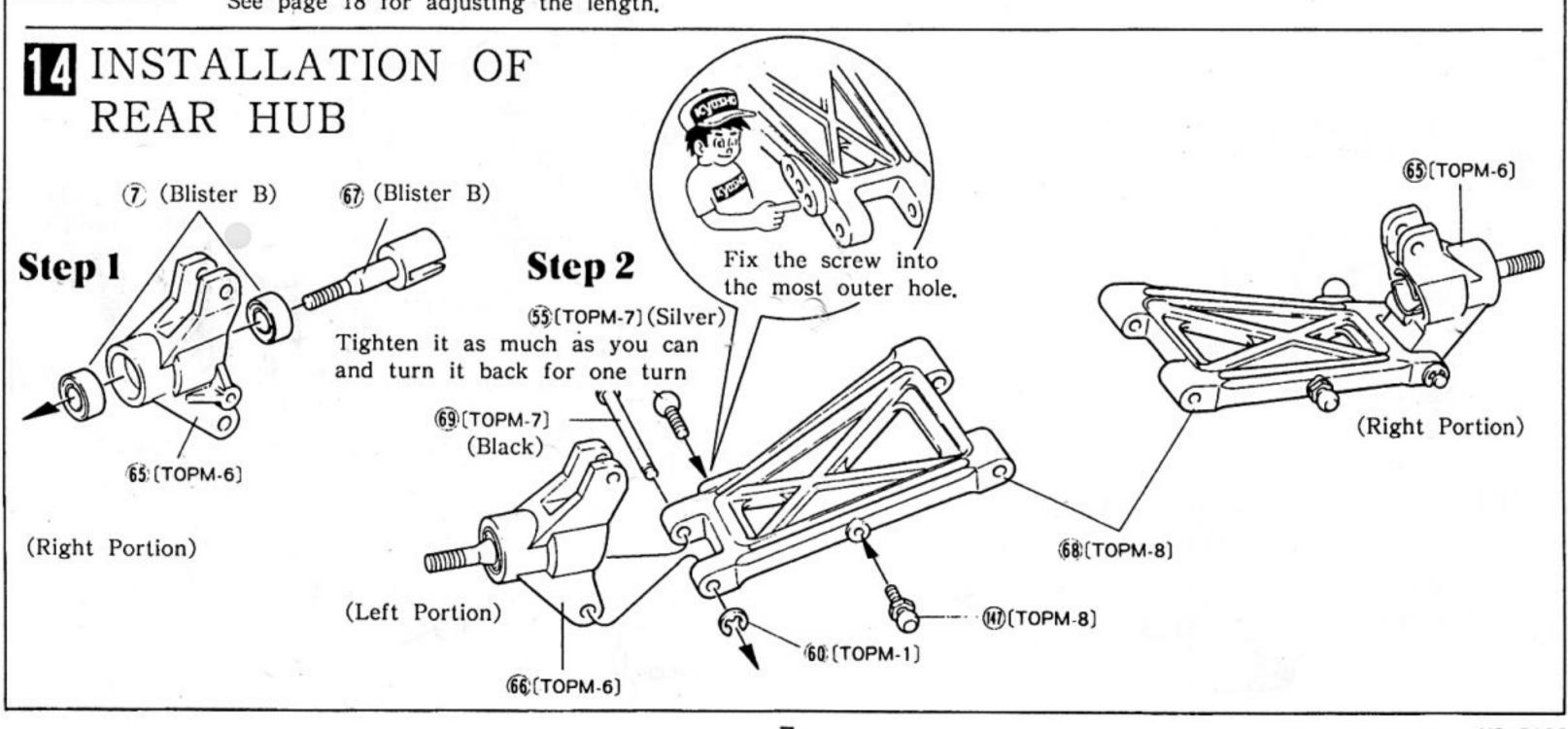


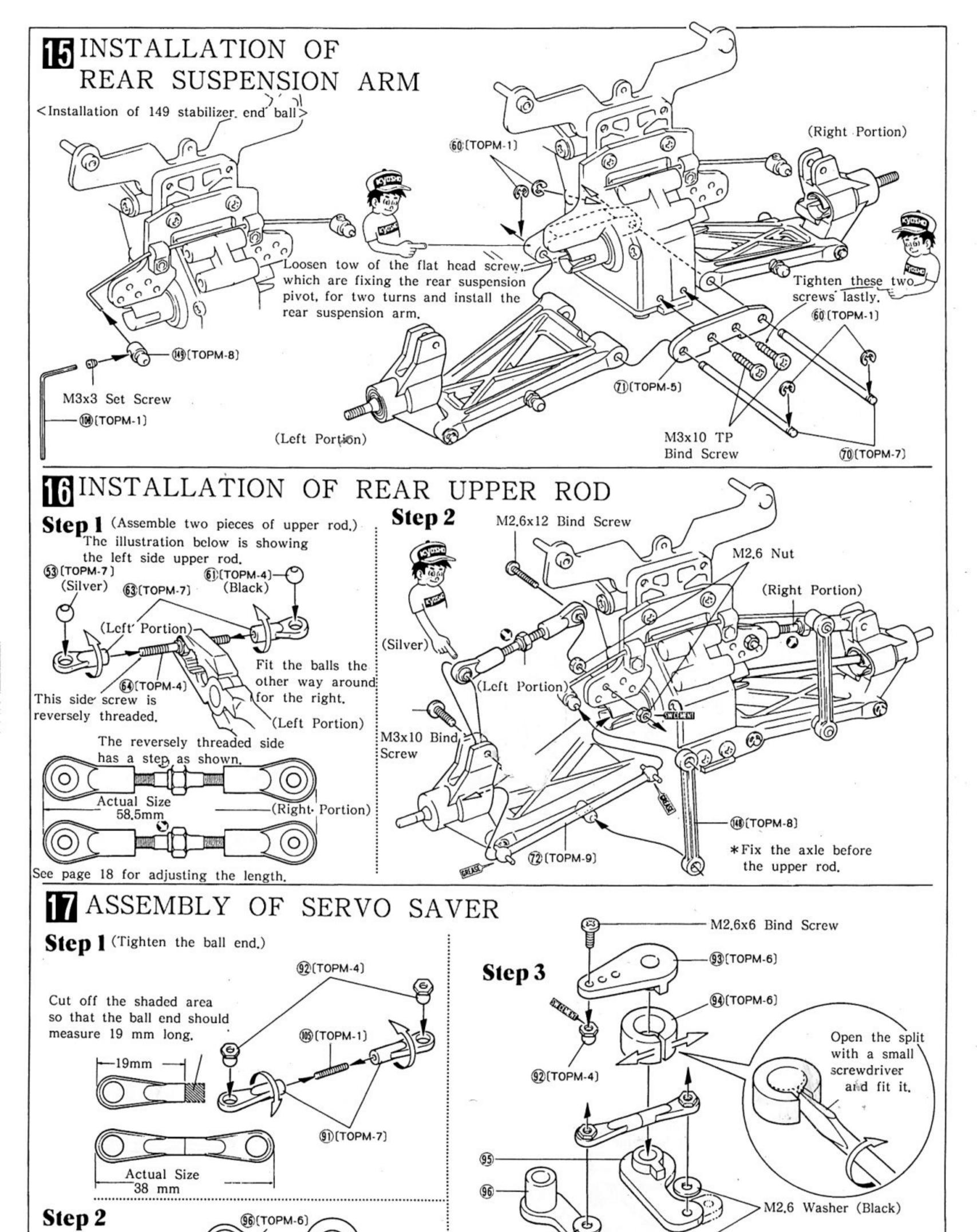












Cut away the unnecessary

part with a pair of clikes.

STEED-

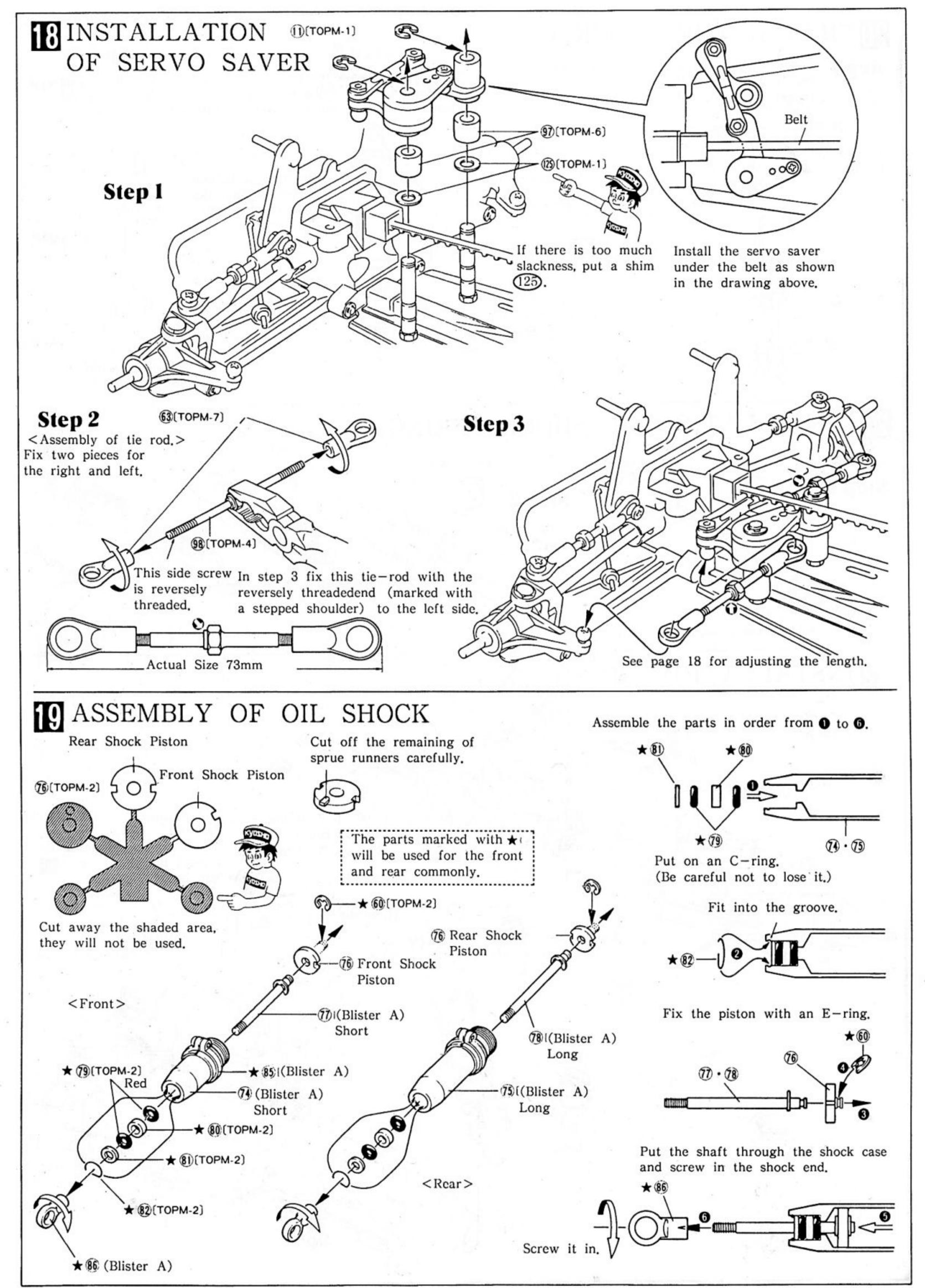
-STEELEN

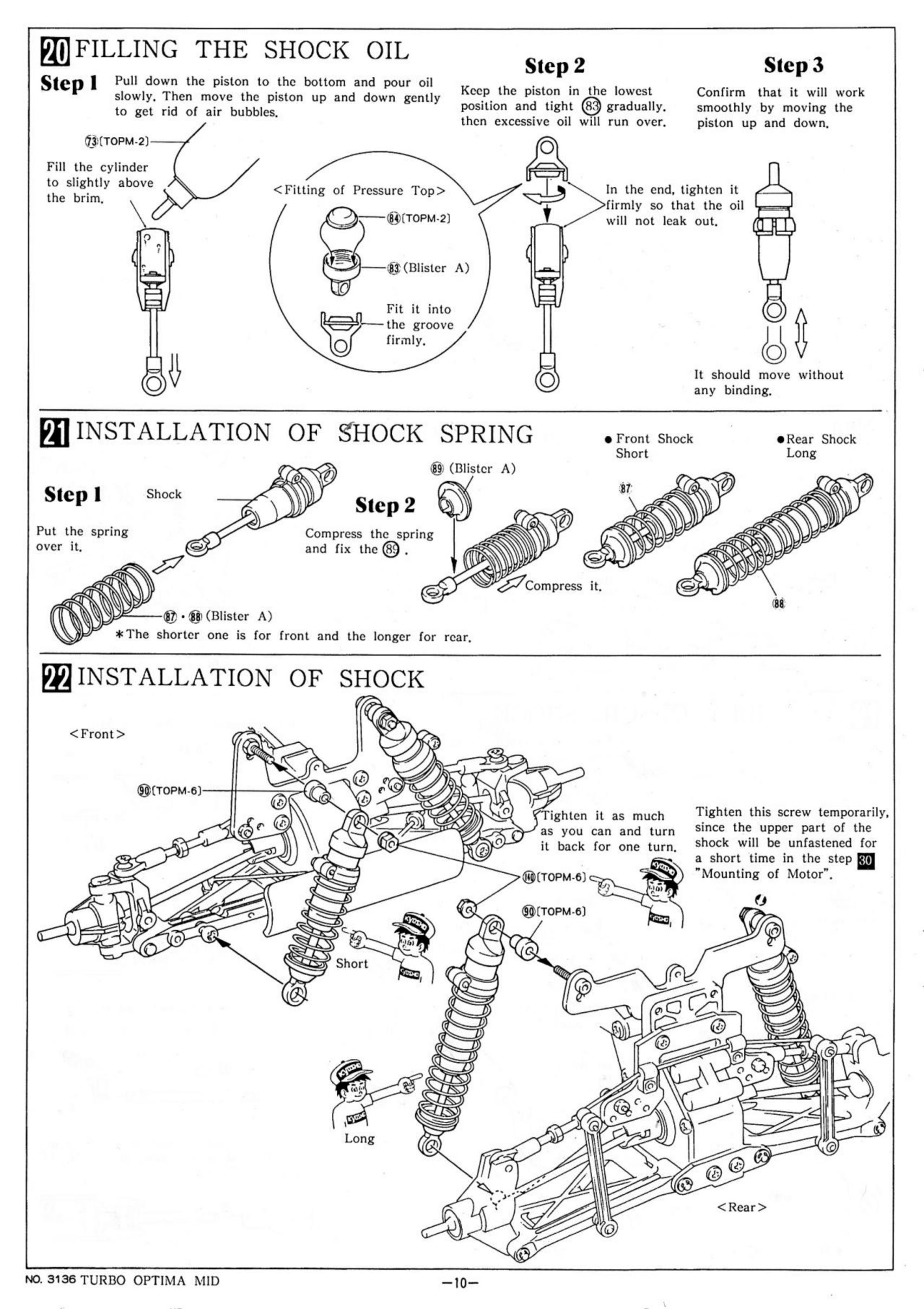
49 (TOPM-7)

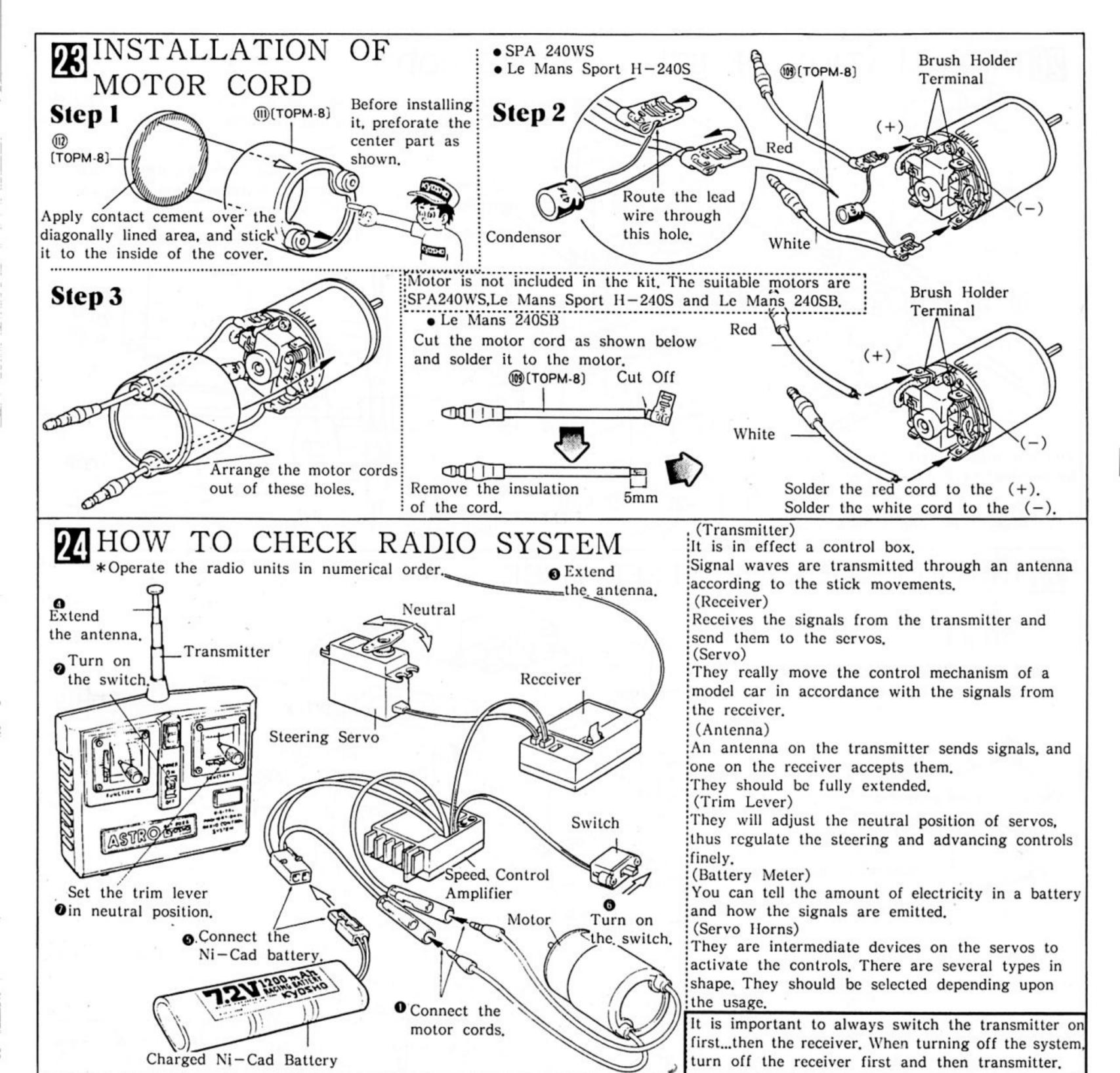
M2.6

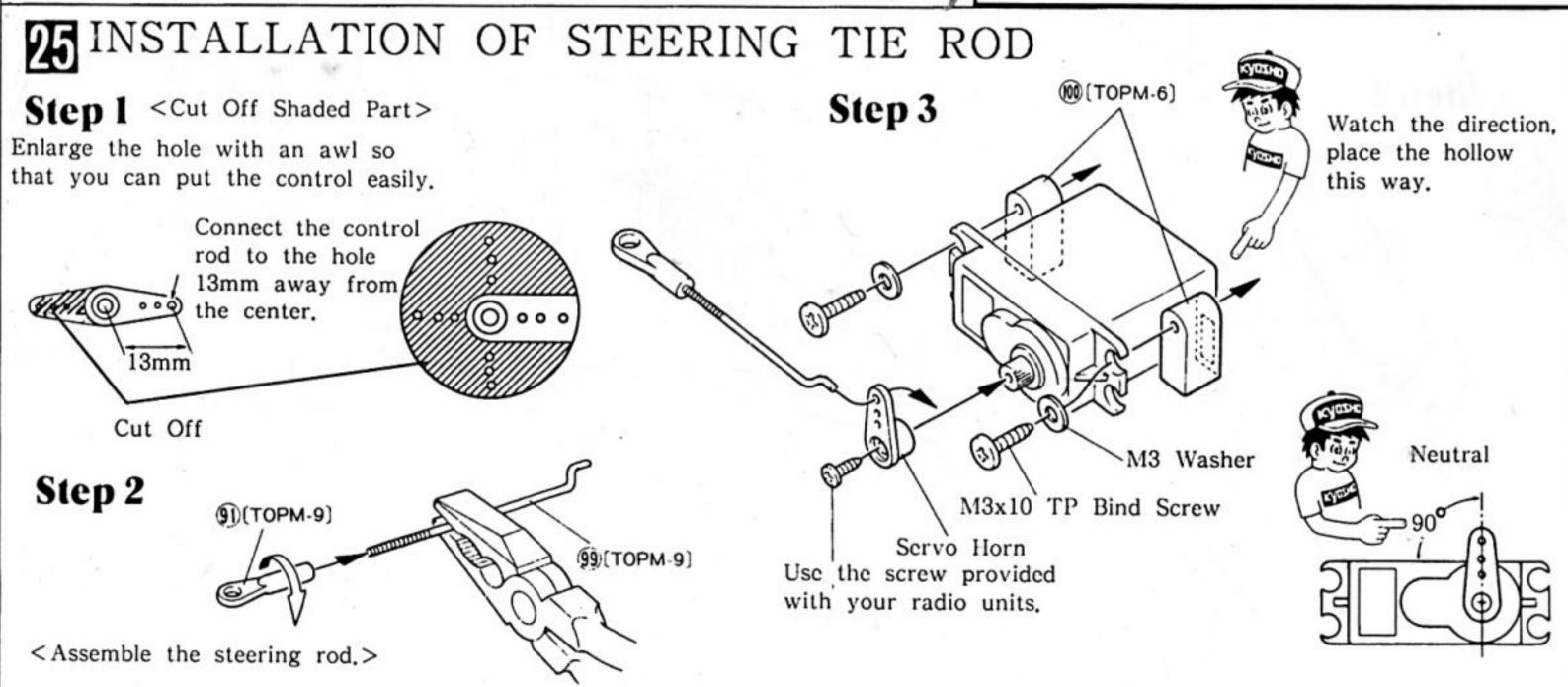
(Black)

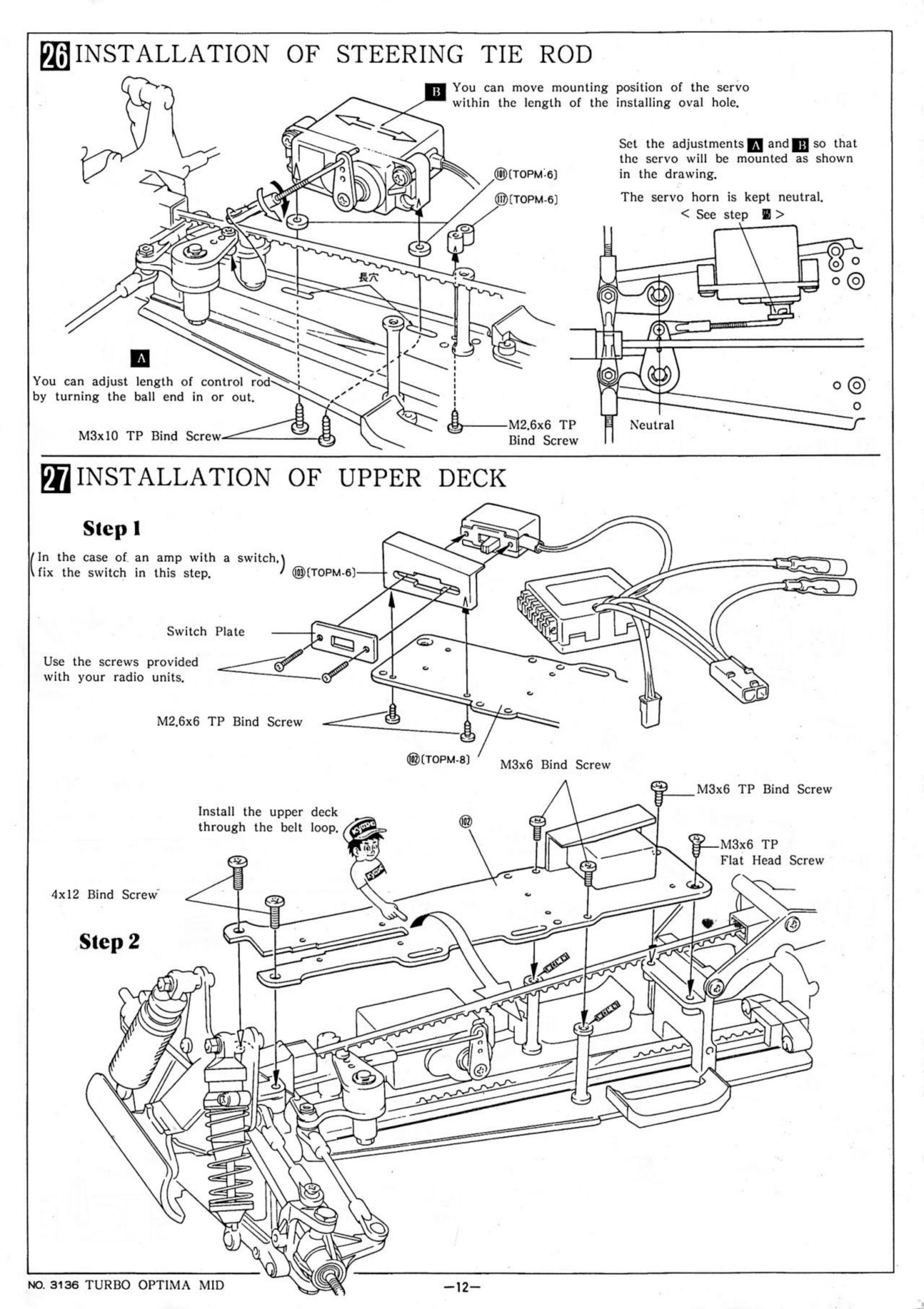
(95)(TOPM-6) Washer

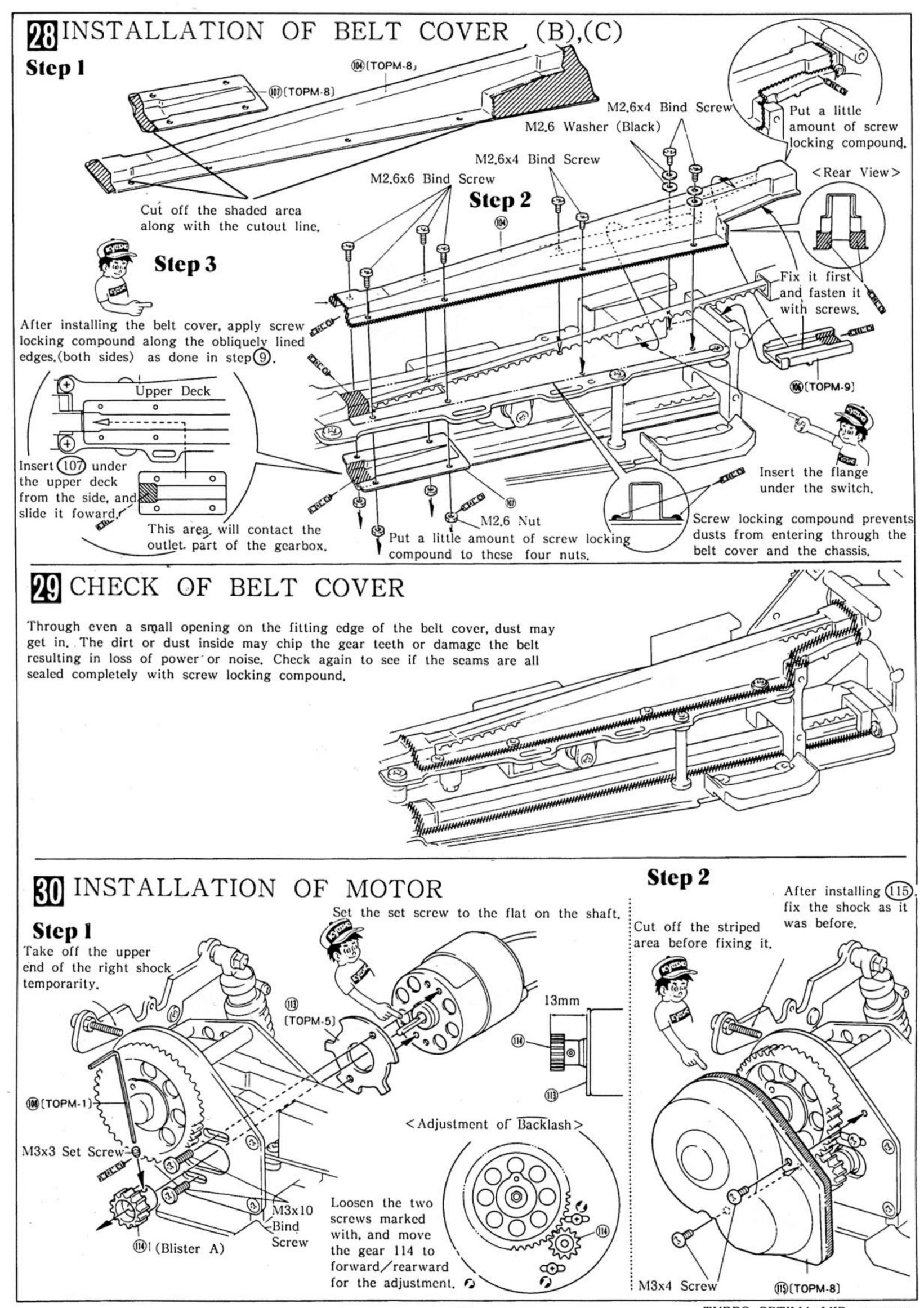


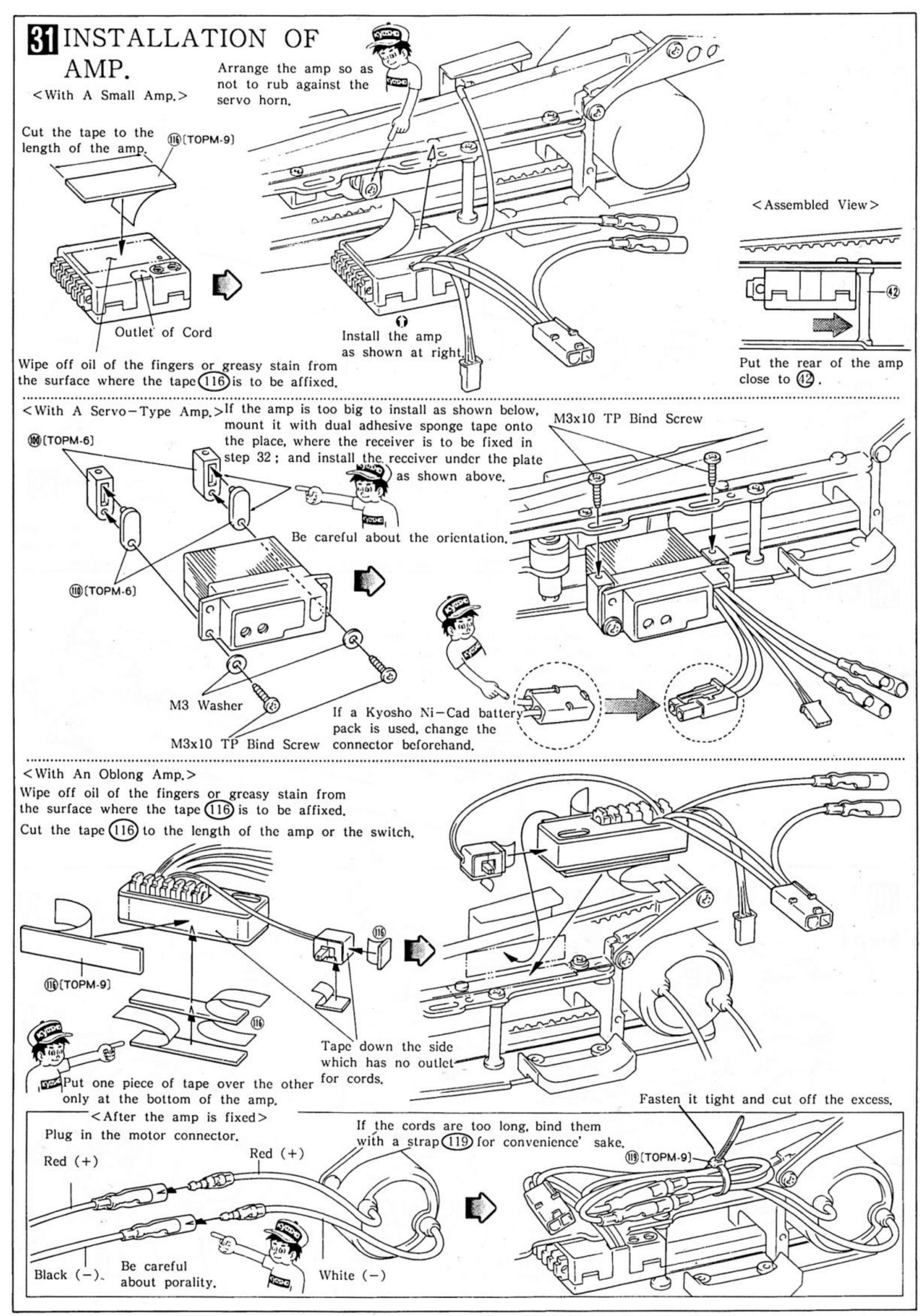


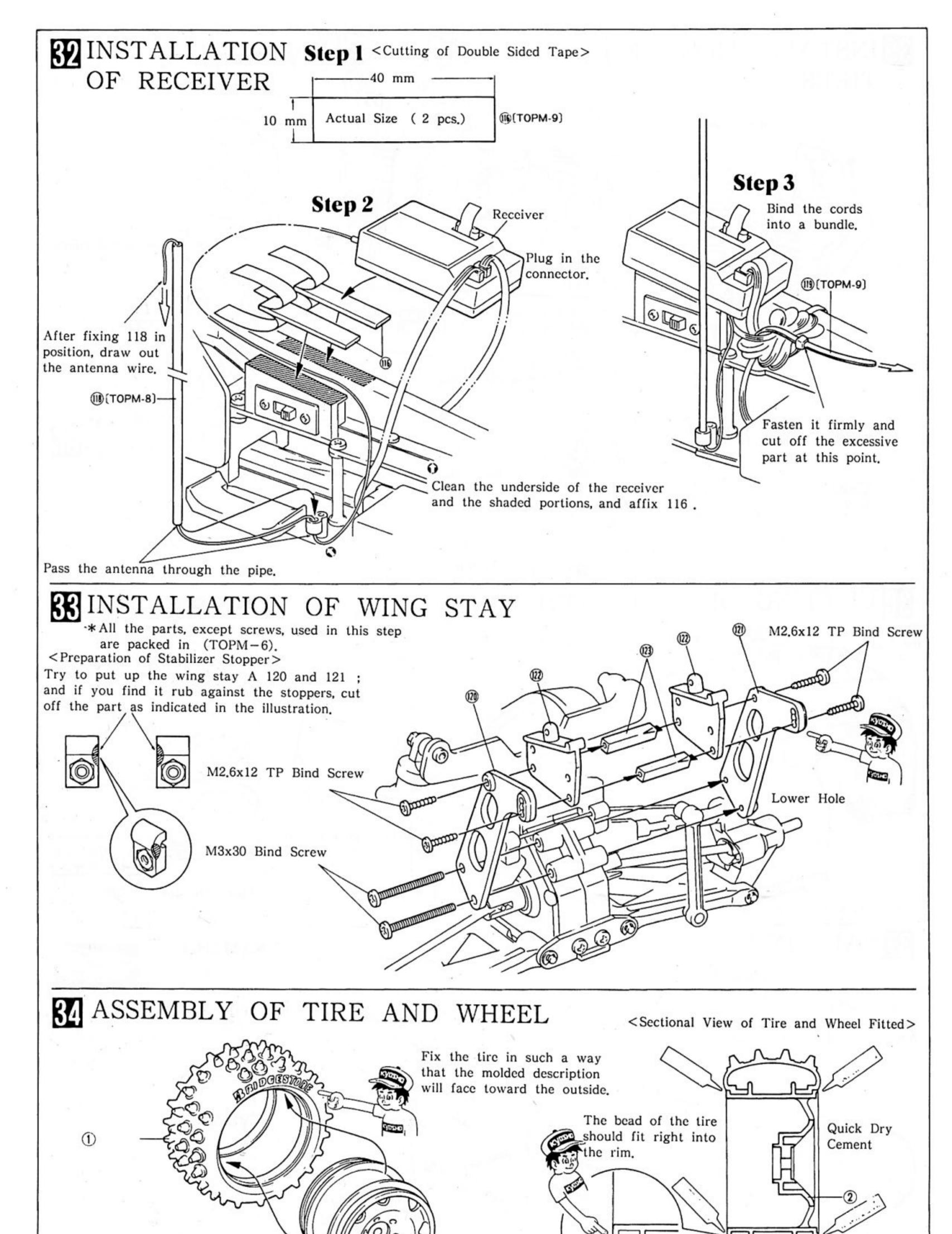






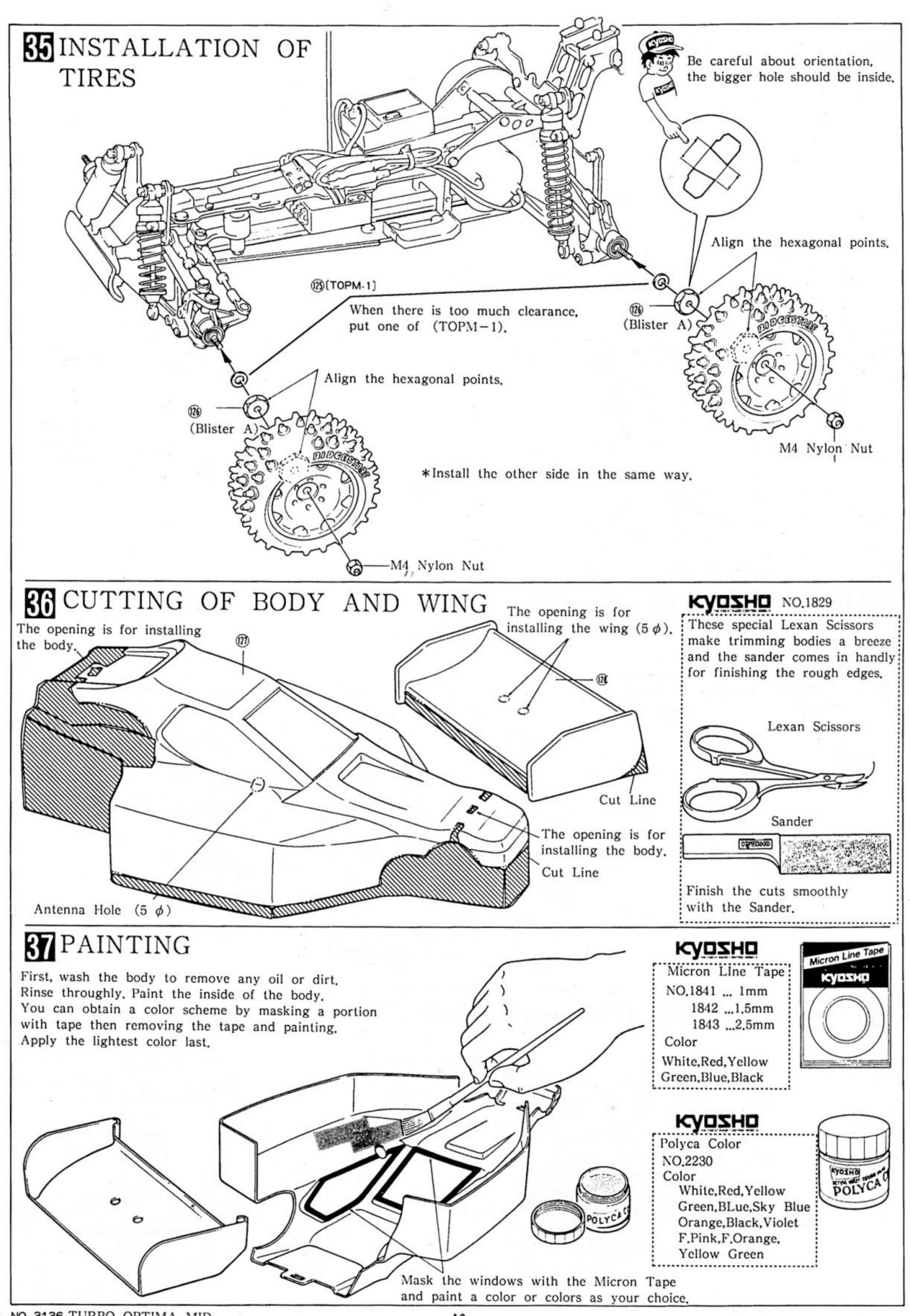


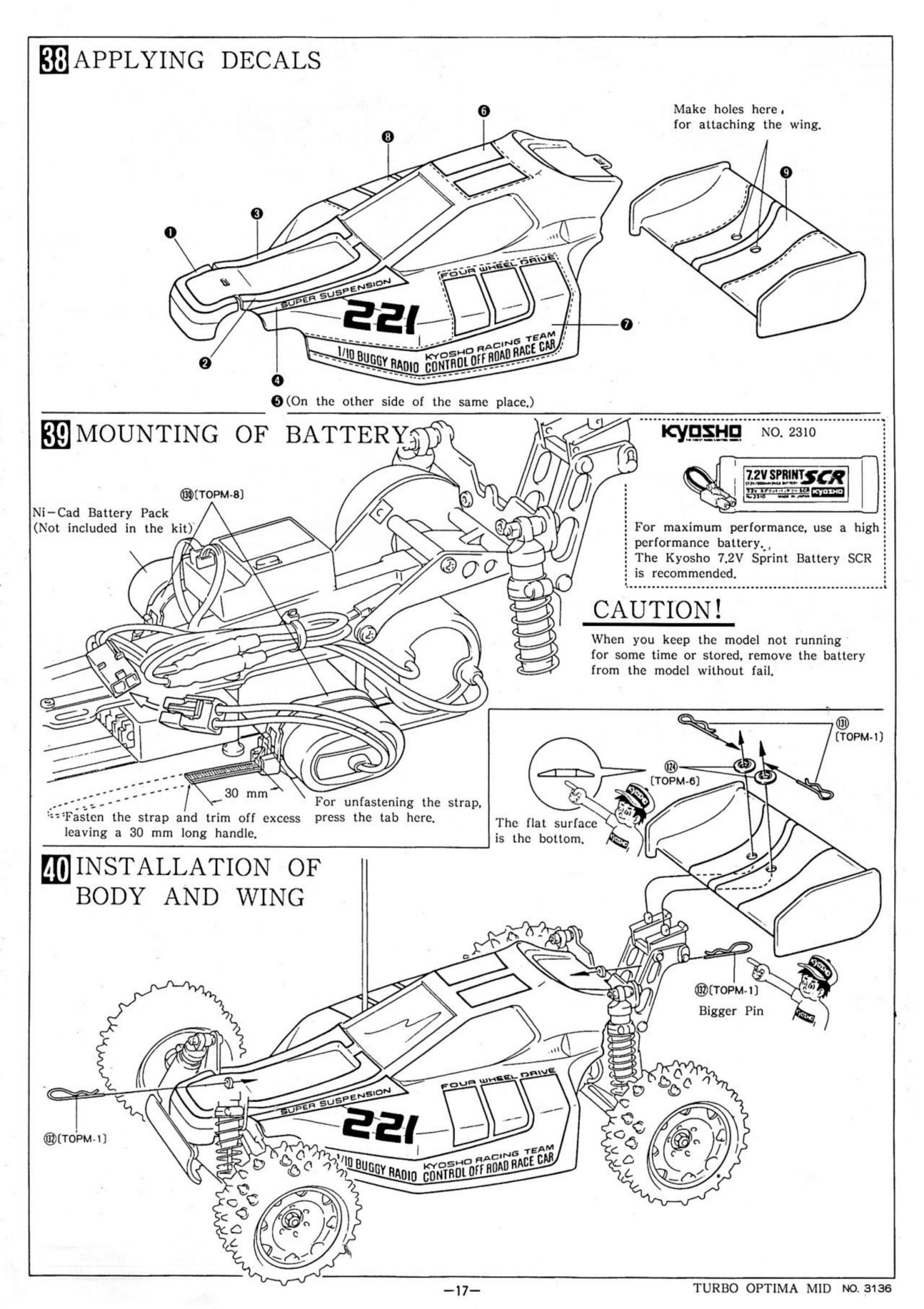


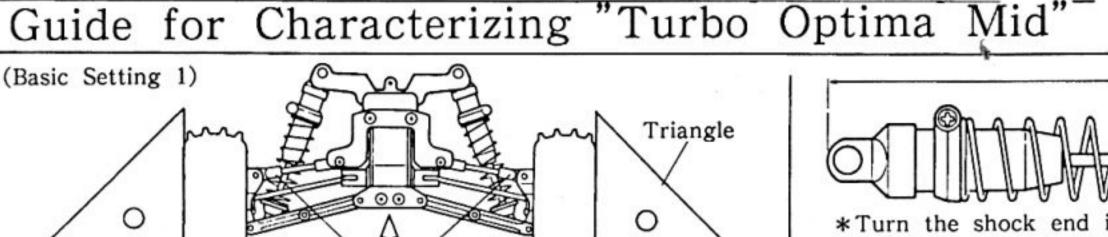


Cement 1 to 2.

(2)(TOPM-3)-







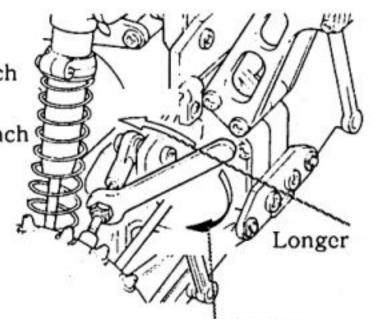
Place the model car on a flat surface, and keep the car with the maximum body clearance, and adjust length of the front and rear upper rods so that the wheels stand at a right angle to the ground.

Upper Rod

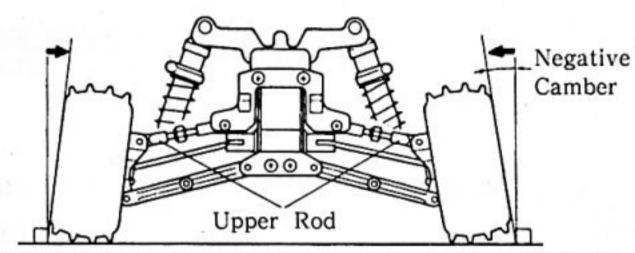
(Adjustment of Upper Rod) To get rod longer: Turn wrench forward.

To get rod shorter: Turn wrench reverse.

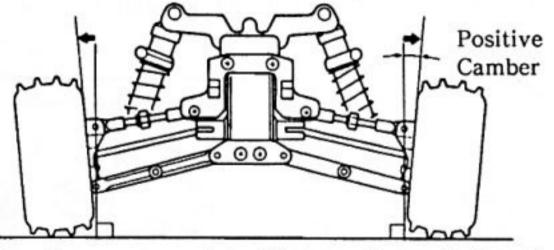
\*Tie rod can be adjusted in the same way.



shorter

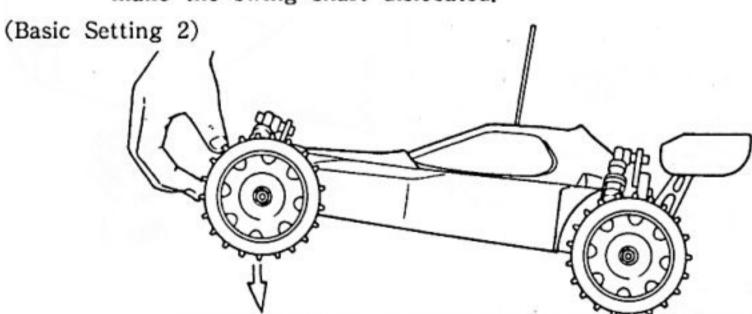


By adjusting the upper rod shorter, you will have a trait of negative camber. With negative camber adjustment of the front wheels, you will have sharper steering tendency, while on the rear wheel the gripping power bocomes higher.

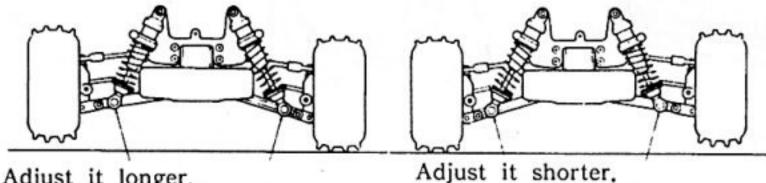


By lengthening the upper rod, positive camber adjustment is gained. With positive camber on the front wheels, you will have a trait of under steering, while on the rear wheels you will have the car with over steering traits.

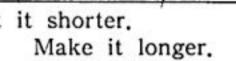
> \*Excessive positive camber adjustment may make the swing shaft dislocated.

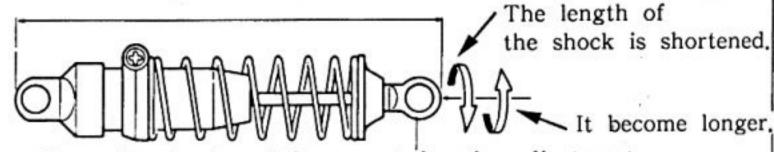


Adjust the right and left shocks in such a way that both sides of the front wheels will touch down the ground simultaneously when raising the front portion of the model and lowering it down gently. In the case the right and left side wheels land not in the same instant, the steerage of each wheel will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

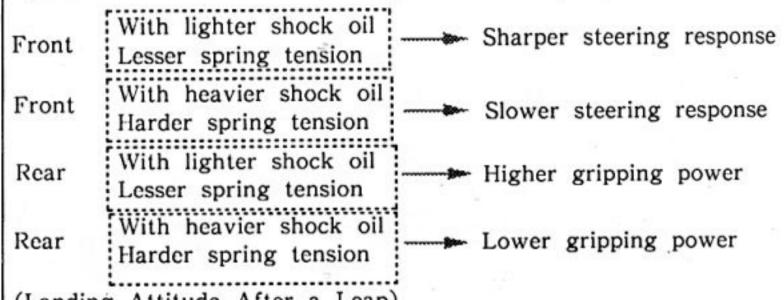


Adjust it longer. Make it shorter.





\*Turn the shock end in or out for the adjustment. (Selection of Shock Oil and Adjustment of Spring)

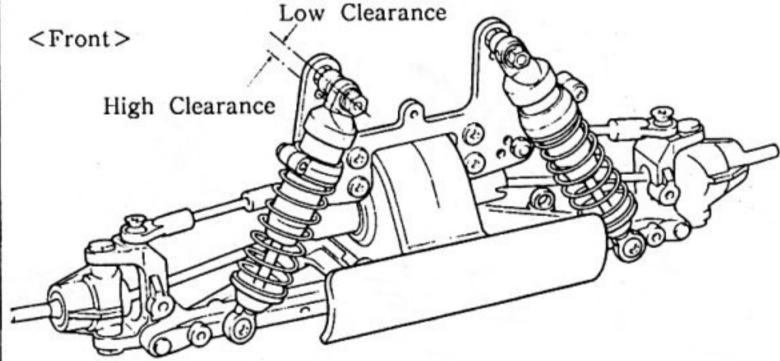


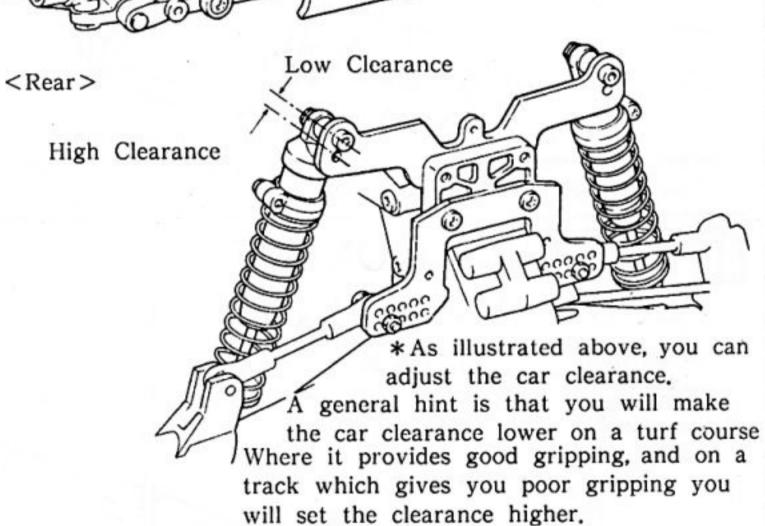
(Landing Attitude After a Leap) Harder spring tension of the front shocks and lighter oil in them will prevent a head down crash landing.

(Adjustment of Hardness of Shock Action)

NO.1951 Oil Set	Yellow	Green	Yellow	Red	Green	Red
Piston	60	9	503	50	63	60
Hardness		Harder		S	ofter	

\*Take this chart just as general indication.





(Gear Protector)

This function is to protect gear from emergent shock when after jump or crashed in accident. When the car is started, the gear tends to skid, then be sure to tighten M3 nylon nut a quarter of turn at each time. Otherwise shall take some trouble causing by heat. M3 nylon nut which put in at step 4 on page 4.

(Coar Ratio and Ontional 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
	5	SPA :	240 V	VS							
Proper Motor			Le	Mar	s H-	-2405	3				
				Le	Man	s 240	OST				
		1.0				1873	Le I	Mans	3600	old	

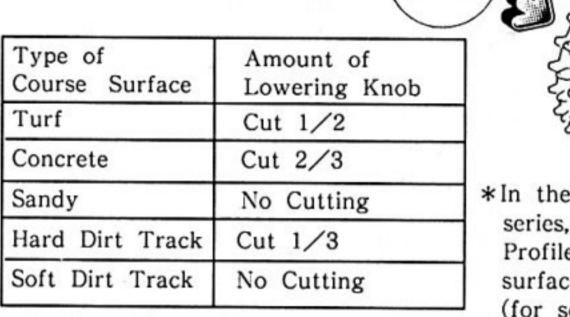
Guide for Characterizing "Turbo Optima Mid" (2)

(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.



\*In the "Option House" series, the W5031 Low Profile Tire (for hard surface) and the W5032 (for soft surface) are available.

(Adjustment of Differential Gear)

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

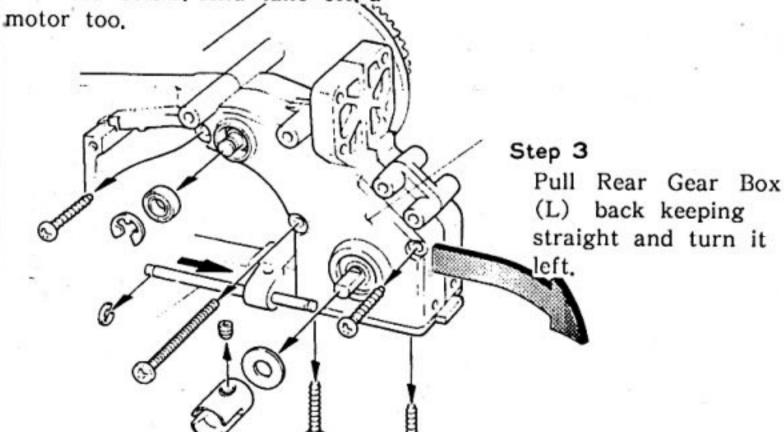
\*This is just a rule of thumb.



Take off the screw and E ring which illustrated in a red color.

( Maintenance of inside the Rear Gear Box

Step 2
Take off the screw and E ring indicated below. And take off a



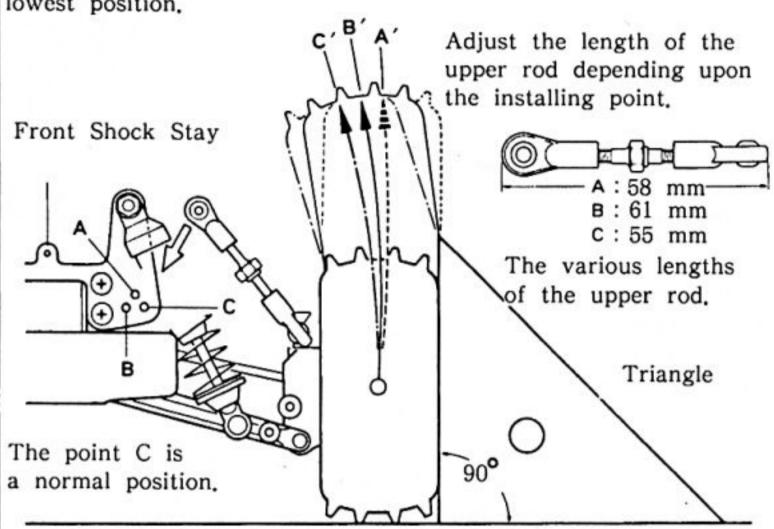
(Maintenance of Sprocket)

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

Check them from time to time.

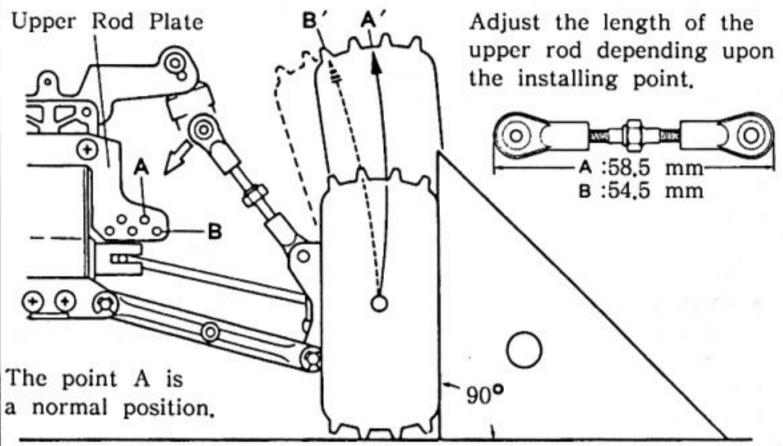
(Correlation between the Position of Front Upper Rod and Camber Angle)

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 camber angle when the front suspension arms swing down to the lowest position.



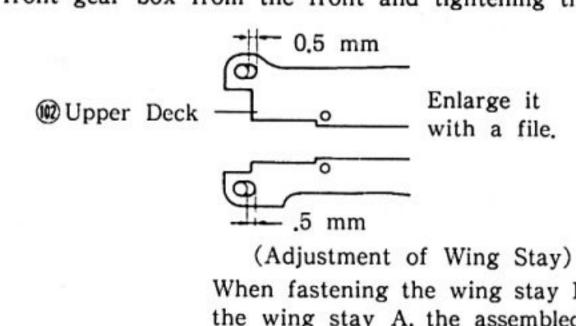
(Correlation between Installing Position of the Rear Upper Rod and Camber Angle)

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.

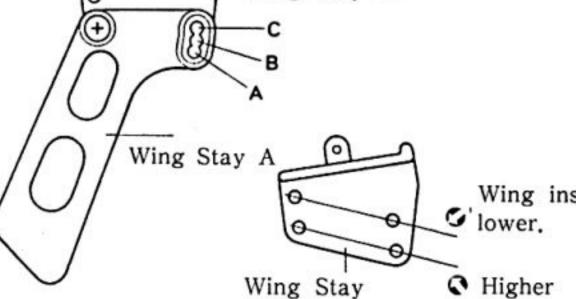


(Adjustment of Belt tension)

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.



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,



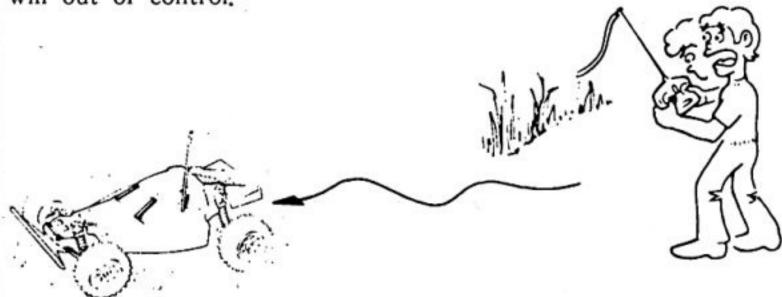
Wing Stay B

Wing installation point lower.

#### Things to Observe

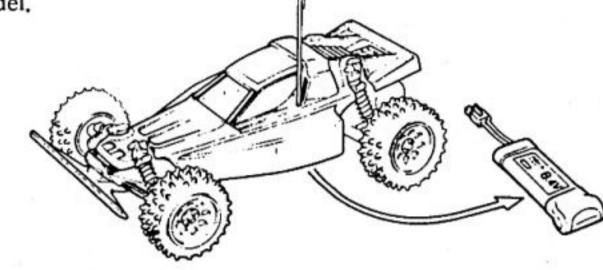
(Running the Turbo Optima Mid)

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 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 switch, 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 wheel.
- 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.

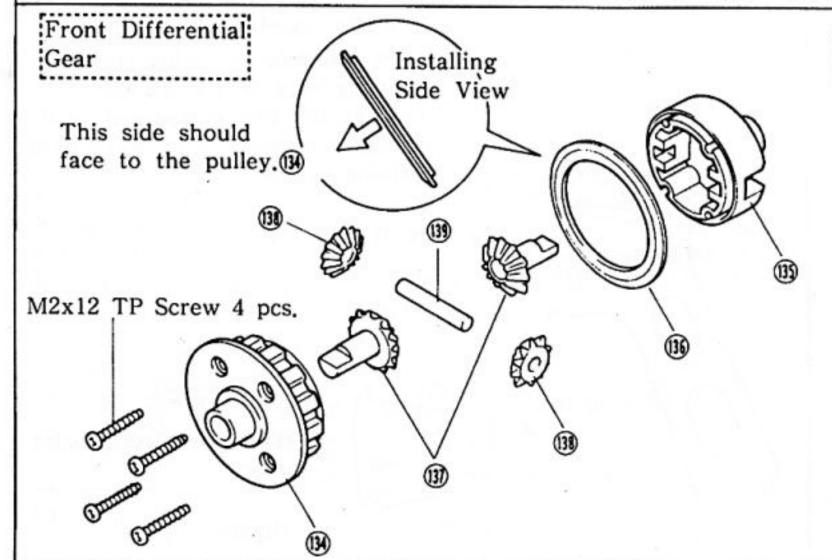
# Maintenance after Running The Car

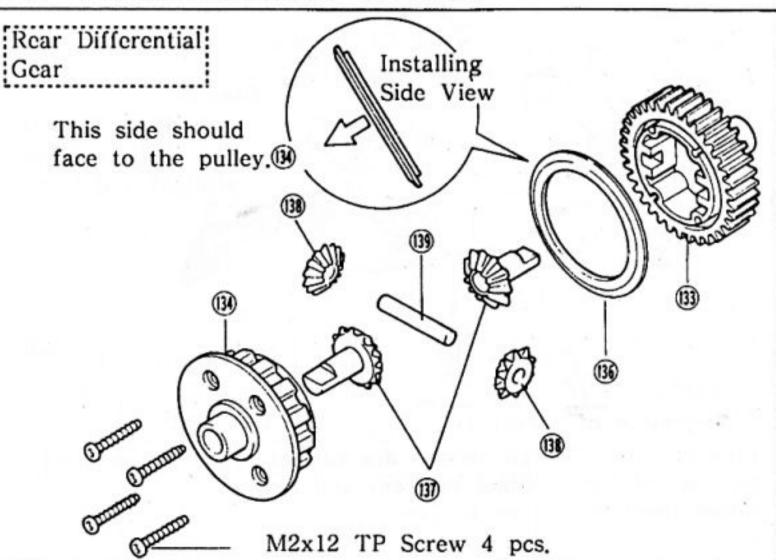
- Remove the Ni-Cad battery from the car.
- Wipe dirt and oily stain off the car.
- · Turn off the switches of the radio control units.
- · Grease the moving parts periodically.
- · Tighten the loose screws and nuts, if any.

#### 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





#### "TURBO OPTIMA MID" KEY NUMBERS FOR PARTS

NO.	DADTE NAME	Q'TY	NO	DADTE NAME	Q'TY	NO	DADTE NAME	Q'TY
NO.	PARTS NAME Tire		NO.	PARTS NAME King Pin		NO.	PARTS NAME	QII
2	Wheel	4	52	5.8 φ Ball (Silver)	4	103	Switch Plate Belt Cover (B)	
3		4	53	Front Suspension Arm	4	104	M2 Shaft	1
4	8 φ x14 Ball Bearing  Joint	4	54	M3 Pillow Ball (Silver)	2	105	Rubber Cover	2
5	Allen Wrench (2 mm)	4	55	Front Stabilizer End	4	106		
	Rear Gear Box (R)		56	E Ring (E-3) (Black)	2	107	Belt Cover (C)	1
6		1	57		2	108	Allen Wrench (1.5 mm)	1
7	5 φ x10 Ball Bearing	10	58	Suspension Shaft (A)	2	109	Motor Cord	2
8	Spur Gear Shaft 2 φ x11 Pin	1	59	Suspension shaft (B)	2	110	Motor Spacer	2
9		2	60	E Ring $(E-2.5)$ 5.8 $\phi$ Ball (Black)	20	111	Motor Cover	1
10	Counter Gear	. 1	61		4	112	Motor Cleaner	1
11	E Ring (E-4)	4	62	Allen Wrench (2,5 mm)	1	113	Motor Plate	1
12	5 φ x8 Ball Bearing	2	63	Ball End (L)	12	114	Pinion Gear (20T)	1
13	Pulley (Yellow)	1	64	Upper Rod	4	115	Gear Cover	1
14	Pulley Flange (Yellow)	1	65	Rear Hub (R)	1	116	Double Sided Tape	1
15	5 φ Collar (S) (Yellow)	2	66	Rear Hub (L)	1	117	Antenna Post	1
16	4 φ x8 Ball Bearing	2	67	Rear Shaft	2	118	Antenna Pipe	1
17	Center Gear	1	68	Rear Suspension Arm	2	119	Strap (S)	3
18	Center Gear Shaft	1	69	Suspension Shaft (C)	2	120	Wing Stay (A) (L)	1
19	Toothed Belt	1	70	Suspension Shaft (D)	2	121	Wing Stay (A) (R)	1
20	Rear Gear Box (L)	1	71	Rear Suspension Plate	1	122	Wing Stay B	2
21	Rear PLate (L)	1	72	Swing Shaft	2	123	Wing Stay Joint	2
22	Rear Plate (R)	1	73	Shock Oil	1	124	Wing Washer	4
23	5 φ Collar (L) (Yellow)	1	74	Front Shock Case	2	125	5 φ Shim	8
24	Gear Protector Plate (B)	1	75	Rear Shock Case	2	126	Driver Washer	4
25	Gear Protector Washer	2	76	Shock Piston	4	127	Body	1
26	Spur Gear	1	77	Front Shock Shaft	2	128	Wing	1
27	Gear Protector Plate (A)	1	78	Rear Shock Shaft	2	129	Decal	1
28	Wave Washer	3	79	Shock O Ring (Red)	8	130	Ni-Cad Strap	2
29	Gear Protector Collar	1	80	Shock Collar (White)	4	131	Wing Pin	2
30	Upper Rod Plate	1	81	Plastic Washer (Black)	4	132	Body Pin	2
31	Rear Shock Stay	1	82	C Ring	4	133	Main Gear	1
32	Front Gear Box (R)	1	83	Shock Cap	-	134	Sprocket	2
33	Front Gear BOx (L)	1	84	Pressure Top	4		Differential Gear Case	2
34	Front Shock Stay	<u> </u>	85	Spring Stopper	4	135	Diff. Gear Ring (Yellow)	
35	Front Suspension Plate	1	86	Shock End	4	136	Bevel Gear (A)	2
36	Chassis	1	87	Front Spring	4	137		4
37	Bumper	1			2	138	Bevel Gear (B)	4
38	Belt Cover (A)	1	88	Rear Spring Spring Holder	2	139	Bevel Shaft M3 Plastic Nut	2
	One Touch Tape	1	89		4	140	M3 Plastic Nut	4
39		2	90	Shock Bushing	4	141	Silicone Grease	1 .
40	Sponge Tape	2	91	Ball End (S)	3	142	Screw Locking Compound	2
41	Saver Shaft	2	92	Ball Nut	3	. 143	Front Stabilizer	1
42	Upper Deck Post Upper Deck Mount	2	93	Servo Saver (A)	1	144	Rear Stabilizer	1
43		1	94	Servo Saver (B)	1	145	4.8 φ Ball	2
44	Rear Suspension Pivot Battery Holder	1	95	Servo Saver (C)	1	146	Stabilizer Stopper	2
45		2	96	Servo Saver (D)	1	147	Stabilizer Pillow Ball	2
46	Knuckle Arm (L)	1	97	Servo Saver Collar	2	148	Stabilizer Ring	2
47	Knuckle Arm (R)	1	98	Tie Rod	2	149	Stabilizer End Ball	2
48	Universal Swing Shaft	2	99	Steering Rod	1			
49	M2.6 Pillow Ball (Black)	4	100	Servo Stay	4			
50	Front Hub (R)	1	<sup>3</sup> 101	Servo Stay Spacer	2	and the lift who as to the orion		
51	Front Hub (L)	1	102	Upper Deck	1			

### "TURBO OPTIMA MID" BAGGED PARTS LIST (1)

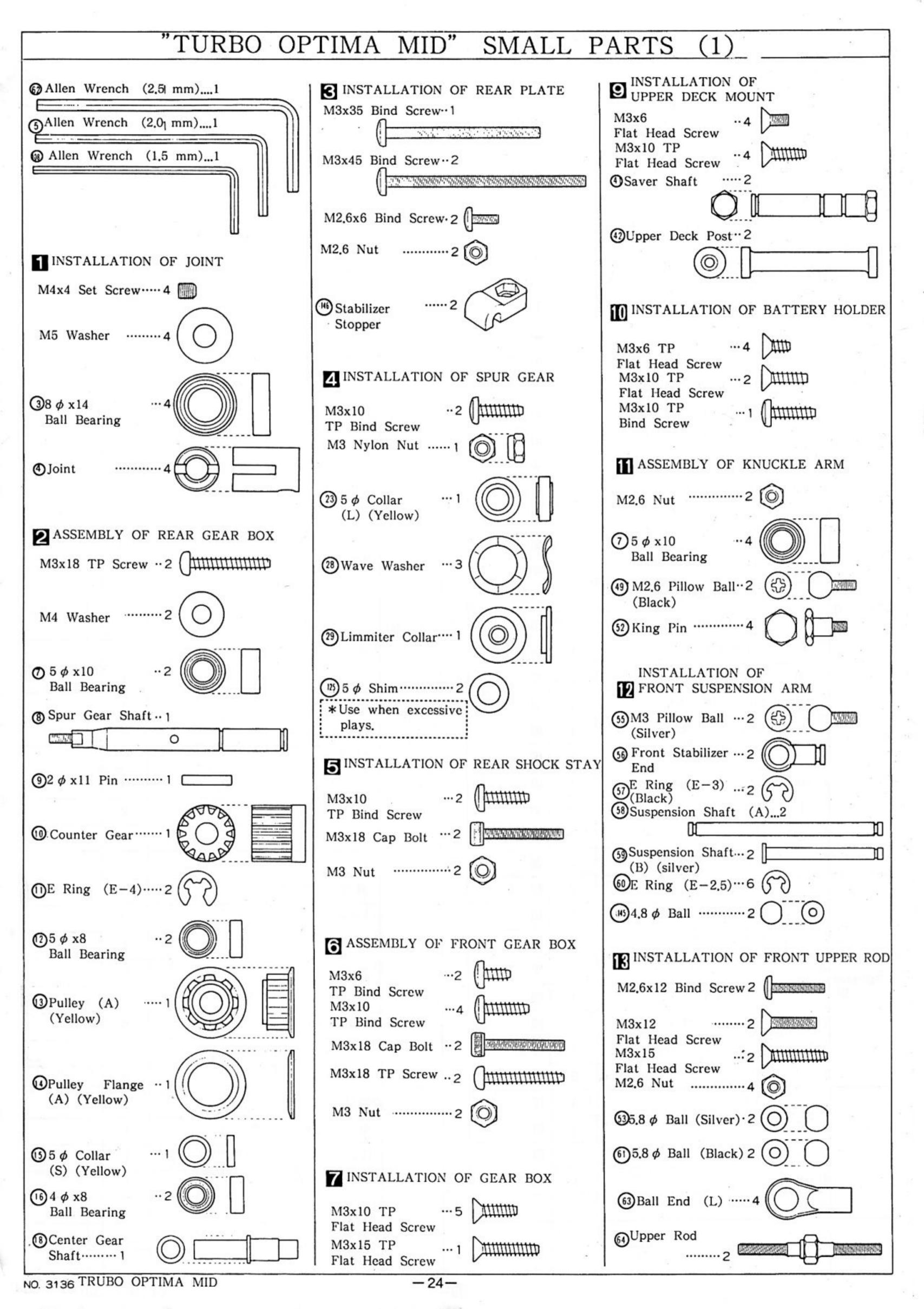
BAG.	NO.	PARTS NAME	Q'TY	STEP
	4	Joint	4	0
	10	Counter Gear	1	2
Blister	17	Center Gear	1	2
	19	Toothed Belt	1	2
(A)	26	Spur Gear	1	4
	114	Motor Pinion Gear (20T)	1	800
	126	Drive Washer	4	835
		Front Differential Gear	1	Ð
-		Rear Differential Gear	1	i)
		Pressure Oil Shock (S)	2	19
		Pressure Oil Shock (L)	2	19
	3	8 φ x14 Ball Bearing	4	0
	7	5 φ x10 Ball Bearing	10	200
Blister	12	5 φ x8 Ball Bearing	2	2
(B)	16	4 φ x8 Ball Bearing	2	2
	36	Chassis	1	7
	46	Knuckle Arm (L)	1	00
	47	Knuckle Arm (R)	1	00
	48	Universal Swing Shaft	2	00
	67	Rear Shaft	2	02
TOPM-I		Screw Set (See Page 23)		
	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	19
TOPM-2	79	Shock O Ring (Red)	8	109
	80	Shock Collar (White)	4	19
	81	Plastic Washer (Black)	4	100
	82	C Ring	4	100
	84	Pressure Top		
	- 04	Cap Bolt M3x18	4	20
	141	Silicone Grease	4	56
	141	Screw Locking Compound		
TORM	142	Wheel	2	
ТОРМ-З	2	Spur Gear Shaft	4	B
	8	2 φ x11 Pin		2
	9	Center Gear Shaft	2	2
T0014	18		1	2
ТОРМ-4	24	Gear Protector Plate (B)	1	4
	25	Gear Protector Washer  Gear Protector Collar	2	4
	29		1	4
1	41	Saver Shaft OPTIMA MID	2	9

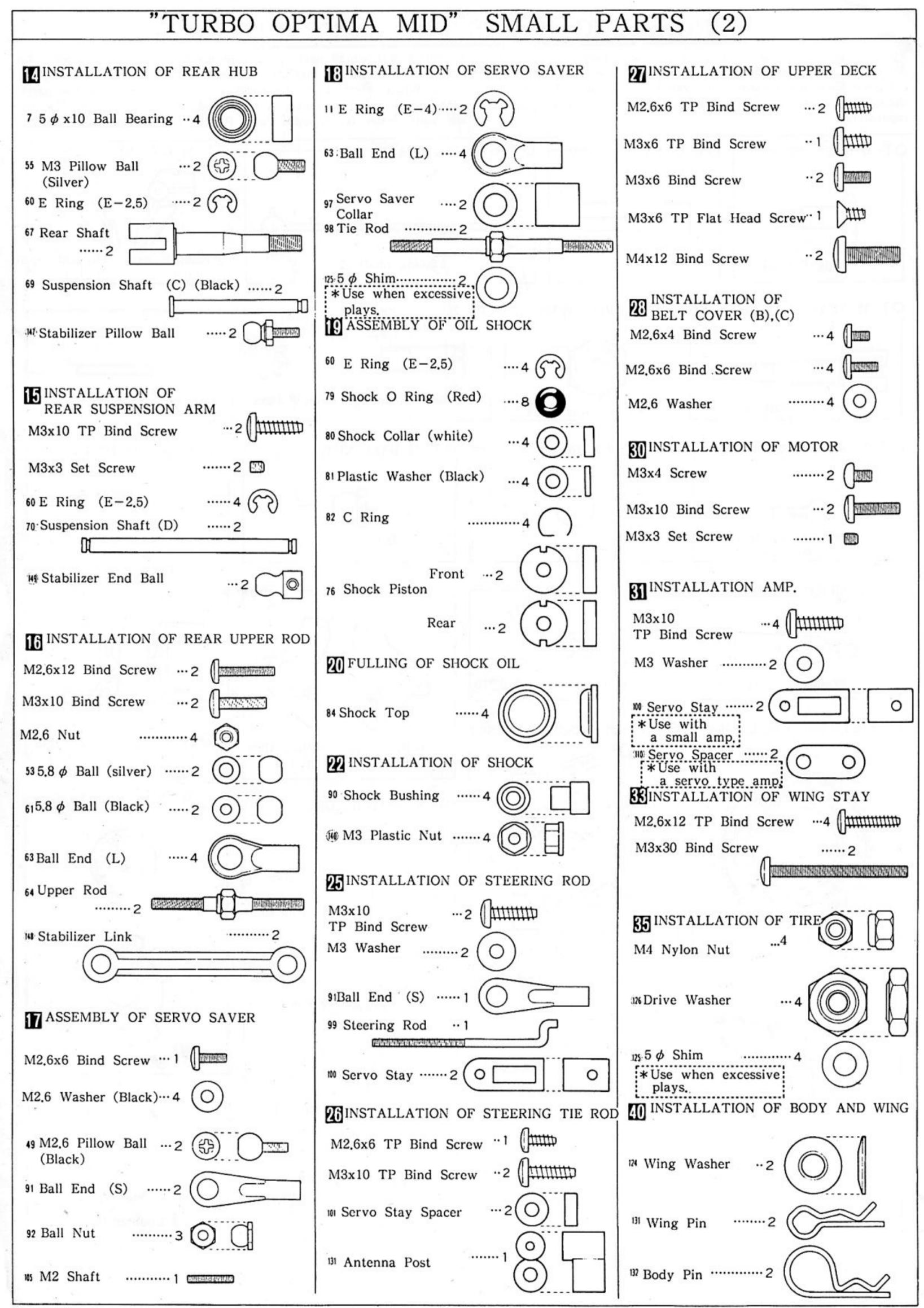
BAG.	NO.	PARTS NAME	Q'TY	STEP
	52	King Pin	4	00
	61	5,8 φ Ball (Black)	4	13 16
орм-4	64	Upper Rod	4	13 16
	92	Ball Nut	3	100
	98	Tie Rod	2	118
	21	Rear Plate (L)	1	8
	22	Rear Plate (R)	1	3
	27	Gear Protector Plate (A)	1	4
	30	Upper Rod Plate	1	8
горм-5	31	Rear Shock Stay	1	5
	34	Front Shock Stay	1	6
	35	Front Suspension Plate	1	6
	71	Rear Suspension Plate	1	15
	113	Motor Plate	1	30
	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	113
	43	Upper Deck Mount	1	9
	44	Rear Suspension Pivot	1	9
	45	Battery Holder	2	100
	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	120
	90	Shock Bushing	4	22
	93	Servo Saver (A)	1	100
орм-6	94	Servo Saver (B)	1	00
	95	Servo Saver (C)	1	00
	96	Servo Saver (D)	1	00
	97	Servo Saver Collar	2	18
	100	Servo Stay	4	25 31
	101	Servo Stay Spacer	2	26
	103	Switch Plate	1	27
	110	Servo Spacer	2	811
	117	Antenna Post	1	26
	120	Wing Stay (A) (L)	1	833
j	121	Wing Stay (R) Wing Stay (R)	1	333
TO 1	122	Wing Stay (B)	2	33
	123	Wing Stay Joint	2	33
	123	Wing Washer	4	
		M3 Plastic Nut		40
	140	Mo Flastic Nut	4	22

## "TURBO OPTIMA MID" BAGGED PARTS LIST (2)

TOPM-8	49 53 55 58 59 63 69 70 91 38 39 54 68 102 104 107 109 111 112	M2.6 Pillow Ball (Black) 5.8 φ Ball (silver)  M3 Pillow Ball (Silver)  Suspension Shaft (A)  Suspension Shaft (B) (Silver)  Ball End (L)  Suspension Shaft (B) (Black)  Suspension Shaft (D)  Ball End (S)  Belt Cover (A)  One Touch Tape  Front Suspension Arm  Rear Suspension Arm  Upper Deck  Belt Cover (B)  Belt Cover (C)  Motor Cord  Motor Cord  Motor Cover  Antenna Pipe	4 4 4 2 12 2 12 2 1 2 1 1 1 1 1 1 1	110 177 13 166 12 144 12 144 13 166 188 13 166 188 135 167 137 168 138 169 189 139 169 169 139 169 169
TOPM-8	55 58 59 63 69 70 91 38 39 54 68 102 104 107 109 111 112 115 118	M3 Pillow Ball (Silver) Suspension Shaft (A) Suspension Shaft (B) (Silver) Ball End (L) Suspension Shaft (B) (Black) Suspension Shaft (D) Ball End (S) Belt Cover (A) One Touch Tape Front Suspension Arm Rear Suspension Arm Upper Deck Belt Cover (B) Belt Cover (C) Motor Cord Motor Cord Motor Cover Motor Cleaner Gear Cover Antenna Pipe	4 2 12 2 2 1 2 2 2 1 1 1 1	12 14 12 12 12 13 16 18 15 15 16 18
TOPM-8	58 59 63 69 70 91 38 39 54 68 102 104 107 109 111 112	Suspension Shaft (A) Suspension Shaft (B) (Silver) Ball End (L) Suspension Shaft (B) (Black) Suspension Shaft (D) Ball End (S) Belt Cover (A) One Touch Tape Front Suspension Arm Rear Suspension Arm Upper Deck Belt Cover (B) Belt Cover (C) Motor Cord Motor Cord Motor Cover  Motor Cleaner Gear Cover Antenna Pipe	2 12 2 2 1 2 2 2 1 1 1 2	12 12 13 16 18 15 15 17 8 8 8 12 14 27 28 28 28 28 28 23 23
TOPM-8	59 63 69 70 91 38 39 54 68 102 104 107 109 111 112	Suspension Shaft (B) (Silver)  Ball End (L)  Suspension Shaft (B) (Black)  Suspension Shaft (D)  Ball End (S)  Belt Cover (A)  One Touch Tape  Front Suspension Arm  Rear Suspension Arm  Upper Deck  Belt Cover (B)  Belt Cover (C)  Motor Cord  Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	2 12 2 2 1 2 2 1 1 1 2	12 13 16 18 15 17 8 8 8 12 14 27 28 28 28 28 28 28 23 23 30
TOPM-8	63 69 70 91 38 39 54 68 102 104 107 109 111 112 115	Ball End (L) Suspension Shaft (B) (Black) Suspension Shaft (D) Ball End (S) Belt Cover (A) One Touch Tape Front Suspension Arm Rear Suspension Arm Upper Deck Belt Cover (B) Belt Cover (C) Motor Cord Motor Cord Motor Cover Motor Cleaner Gear Cover Antenna Pipe	12 2 2 1 2 2 1 1 1 2	13 16 18 15 15 15 17 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19
TOPM-8	69 70 91 38 39 54 68 102 104 107 109 111 112 115	Suspension Shaft (B) (Black) Suspension Shaft (D) Ball End (S) Belt Cover (A) One Touch Tape Front Suspension Arm Rear Suspension Arm Upper Deck Belt Cover (B) Belt Cover (C) Motor Cord Motor Cord Motor Cover Motor Cleaner Gear Cover Antenna Pipe	2 2 1 2 2 2 1 1 1 2	155 177 183 183 192 194 297 298 298 298 298 298 298 298 298 298 298
TOPM-8	70 91 38 39 54 68 102 104 107 109 111 112 115	Suspension Shaft (D)  Ball End (S)  Belt Cover (A)  One Touch Tape  Front Suspension Arm  Rear Suspension Arm  Upper Deck  Belt Cover (B)  Belt Cover (C)  Motor Cord  Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	2 1 2 2 2 1 1 1 2	15 17 8 8 12 14 27 28 28 28 23 23 23 23
TOPM-8	91 38 39 54 68 102 104 107 109 111 112 115	Ball End (S)  Belt Cover (A)  One Touch Tape  Front Suspension Arm  Rear Suspension Arm  Upper Deck  Belt Cover (B)  Belt Cover (C)  Motor Cord  Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	2 1 2 2 1 1 1 2	177 183 183 192 114 277 278 278 278 278 278 278 278 278 278
TOPM-8	38 39 54 68 102 104 107 109 111 112 115	Belt Cover (A) One Touch Tape Front Suspension Arm Rear Suspension Arm Upper Deck Belt Cover (B) Belt Cover (C) Motor Cord Motor Cord Motor Cover  Motor Cleaner Gear Cover Antenna Pipe	1 2 2 1 1 2 1	83 83 112 114 27 28 28 28 23 23 23 23
TOPM-8	39 54 68 102 104 107 109 111 112 115	One Touch Tape Front Suspension Arm Rear Suspension Arm Upper Deck Belt Cover (B) Belt Cover (C) Motor Cord Motor Cord Motor Cover  Motor Cleaner Gear Cover Antenna Pipe	2 2 1 1 1 2	83 112 114 27 28 28 23 23 23 23
торм-8	54 68 102 104 107 109 111 112 115	Front Suspension Arm  Rear Suspension Arm  Upper Deck  Belt Cover (B)  Belt Cover (C)  Motor Cord  Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	2 1 1 1 2 1	112 114 27 28 28 23 23 23 30
торм-8	68 102 104 107 109 111 112 115	Rear Suspension Arm  Upper Deck  Belt Cover (B)  Belt Cover (C)  Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	2 1 1 2 1	114 27 28 28 23 23 23 23
TOPM-8	102 104 107 109 111 112 115	Upper Deck  Belt Cover (B)  Belt Cover (C)  Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	1 1 2 1	27 28 28 23 23 23 30
торм-8	104 107 109 111 112 115	Belt Cover (B)  Belt Cover (C)  Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	1 2 1	28 28 23 23 23 23 30
торм-8	107 109 111 112 115	Belt Cover (C)  Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	1	28 23 23 23 23 30
торм-8	109 111 112 115 118	Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	1	23 23 23 30
торм-8	111 112 115 118	Motor Cord  Motor Cover  Motor Cleaner  Gear Cover  Antenna Pipe	1	23 23 23 30
торм-8	112 115 118	Motor Cleaner  Gear Cover  Antenna Pipe	1	23 30
TOPM-8	115 118	Gear Cover Antenna Pipe		80
	118	Antenna Pipe	1	80
	-	-	1	32
	130			
		Ni-Cad Strap	2	39
	143	Front Stabilizer	1	6
_	144	Rear Stabilizer	1	8
	145	4.8 φ Ball	2	122
	146	Stabilizer Stopper	2	3
	147	Stabilizer Pillow Ball	2	14
	148	Stabilizer Link	2	16
	149	Stabilizer End Ball	2	15
	40	Sponge Tape	2	9
	42	Upper Deck Post	2	9
	72	Swing Shaft	2	06
	91	Ball End (S)	1	25
торм-9	99	Steering Rod	1	25
-	106	Rubber Cover	1	28
	116	Double Sided Tape	1	31 32
	119	Strap (S)	3	<b>31 32</b>
	1	Tire	4	34
	127	Body	1	36
	128	Wing	1	36
	129	Decal	1	38
		Instruction	1	

	PARTS NAME	Q'TY	STEP
	M2.6x4 Bind Screw	4	
	M2.6x6 Bind Screw	7	
	M2.6x12 Bind Screw	4	
	M3x6 Bind Screw	2	
	M3x10 Bind Screw	4	
	M3x30 Bind Screw	2	
	M3x35 Bind Screw	1	
	M3x45 Bind Screw	2	
	M4x12 Bind Screw	2	
	M3x4 Screw	2	
	M3x6 Flat Head Screw	4	
	M3x12 Falt Head Screw	2	
	M2.6x6 TP Bind Screw	3	
	M2.6x12 TP Bind Screw M3x6 TP Bind Screw	4	-
		3	
	M3x10 TP Bind Screw M3x18 TP Screw	19	
		4	
	M3x6 TP Flat Head Screw	5	
	M3x10 TP Flat Head Screw	11	
TOPM-I	M3x15 TP Flat Head Screw	3	
	M2.6 Nut	16	
	M3 Nut	4	
	M3 Nylon Nut	1	
	M4 Nylon Nut	4	
	M2.6 Washer	8	
	M3 Washer	4	
	M4 Washer	2	
	M5 Washer	4	
	②5 5 φ Shim	8	
	Wave Washer	3	
	M3x3 Set Screw	3	4
	M4x4 Set Screw	4	
	60 E Ring (E−2.5)	13	<u> </u>
	5) E Ring (E-3 Black)	3	
	① E Ring (E-4)	5	<del> </del>
	(B) Wing Pin (S)	2	
	Body Pin (L)	2	
	®M2 Shaft		
		2	
	(a) Allen Wrench (1.5 mm) (b) Allen Wrench (2.0 mm)	1	-
	(2.5 mm)	1	
	(2.5 min)	+1	
		1	1
		_	-

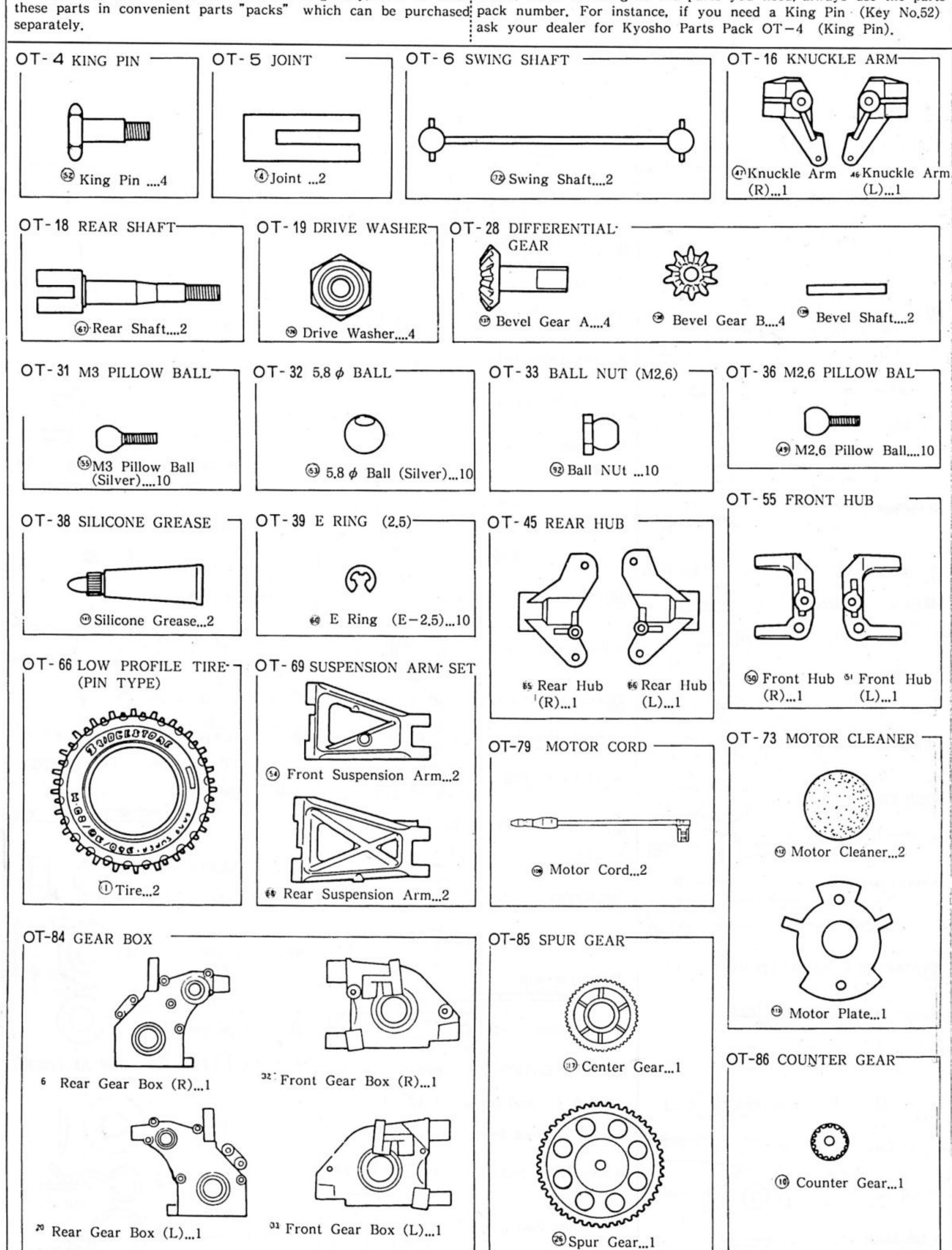




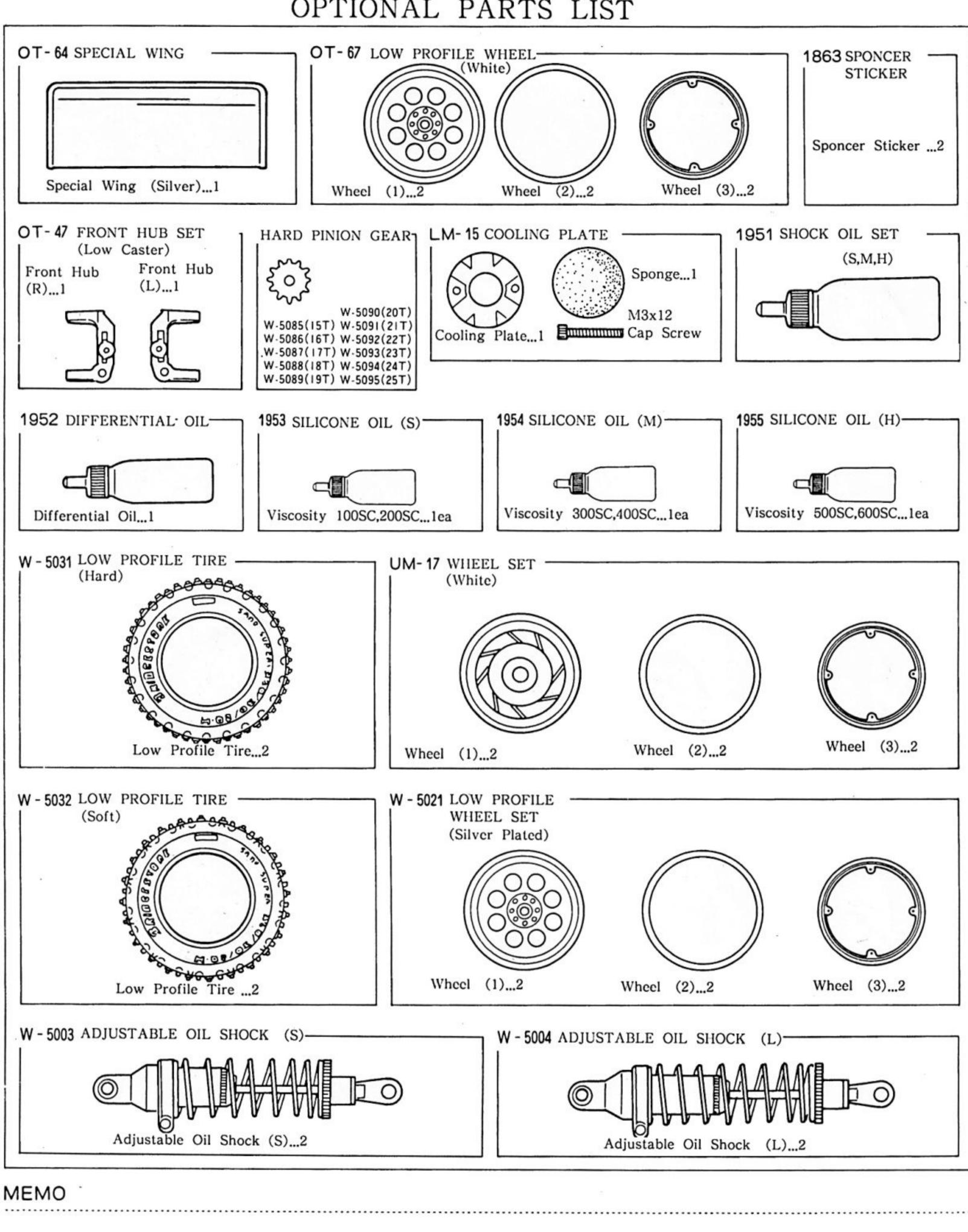
#### PURCHASING PARTS FOR YOUR KIT

You can purchase replacement and optional parts for your kit. To figure out which parts pack you need, find the key number for

All of the part identified by key numbers (see page 21 for a that part whithin the manual. Then consult our parts pack guide, complete list) are usually not available singularly, but we offer below. When referring to the parts you need, always use the parts ask your dealer for Kyosho Parts Pack OT-4 (King Pin).



#### OPTIONAL PARTS LIST



# -The Super Hobby-

