RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY

OFF-ROAD RACER
SHADOW4WD

- MIDSHIPS-MOUNTED MOTOR AND BATTERY FOR BEST BALANCE.
- SHAFT DRIVE TO FRONT WHEELS FOR MINIMUM-WEIGHT 4-WHEEL DRIVE.
- DOUBLE-WISHBONE INDEPENDENT SUSPENSION ON ALL WHEELS.
- LARGE CAPACITY SHOCKS ON ALL WHEELS.
- SIMPLY ASSEMBLY AND ADJUSTMENT. REQUIRES NO SPECIAL SKILLS.
- FRONT AND REAR DIFFERENTIALS FOR EFFICIENT POWER DELIVERY.
- POWERFUL LeMANS "STOCK 05" MOTOR INCLUDED IN KIT.
- EXCELLENT ENTRY-LEVEL BUGGY. GOOD PERFORMANCE AT REASONABLE COST.

1:10 SCALE

BATTERY : 7.2V-1200mAh
RADIO : 2ch
(NOT INCLUDED)

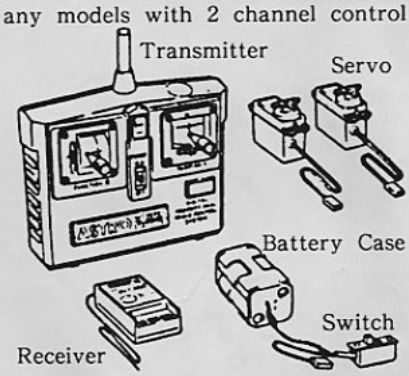
KYOSHO
THE FINEST RADIO CONTROL MODELS

No.3181

OFF-ROAD RACER SHADOW 4WD

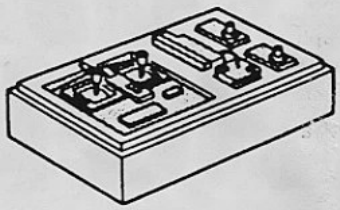
NOTE ON RADIO CONTROL SET

A 2 channel, 2 servo digital proportional radio control unit is required for driving this model car. A unit of such a radio can be used for any models with 2 channel control system.



ITEMS REQUIRED TO COMPLETE THE MODEL

〈2 channel Radio Control System〉



〈Car Battery〉

Shadow is disigned to use a rechargeable 7.2V-1200mAh NiCd battery pack or 7.2V Power battery. A Kyosho Racing Battery, part number 2218, Power Battery 2306 (and some other brands) may be recharged at a wide range of rates. The charging rate depends on the type of charger used.

7.2V Power Battery

7.2V Racing Battery

Model	Name	Charging Time	Charging Rate	Features
No. 2221	Super NiCd Charger (AC100V)	14 to 16 hrs.	100%	For biginners
No. 2326	7.2V Power Charger (DC12V)	15 minutes	about 70%	For biginners ; Timer built in
No. 1846	Multi Charger (DC12V)	20 minutes	100%	Timer, Ammeter built in
No. 1845	Lambda Quick Charger (DC12V)	about 20 minutes	100%	Trickle charging Automatic cut-off at peak of charge.
No. 2232	Super NiCd AC Rapid Charger (AC100V)	about 40 minutes	about 100%	Chargeable from Household outlet.

No.1845

No.2232

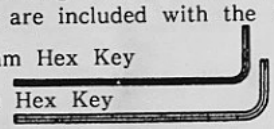
No.2221

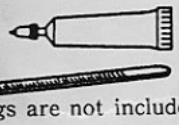
No.1846

No.2326

REQUIRED TOOLS

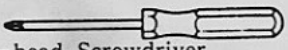
Several tools are required for assembling Shadow. The follow-ings are included with the kit.



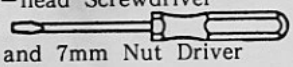


*The followings are not included.

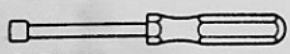
Philips-head Screwdriver (L,S)



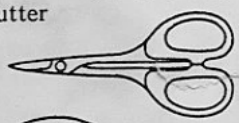
Slot-head Screwdriver



5.5 and 7mm Nut Driver

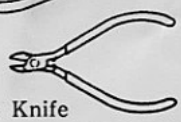


Round Cutter



Pliers

Wire Cutter

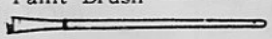


Hobby Cutter Knife

Polyca (or similar) acrylic paint

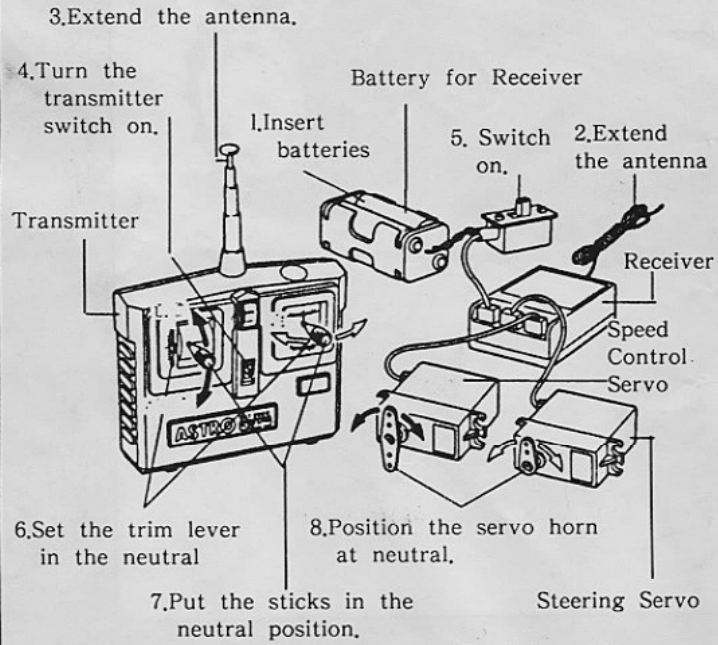
Micron-line Tape

Small Paint Brush



HOW TO CHECK THE RADIO CONTROL UNIT

Manipulate the radio in order of the number 1 to 8.



*Always switch the transmitter on first, followed by the receiver.

A 2 channel radio control set is composed of a transmitter, a receiver, two servos, and a battery box.

Transmitter ------- This is to control the needle The operation of the contrl sticks sends a signal via the antenna in the form of radio waves.

Receiver ---------- Transmits the wave signals received to the servos.

Servos ------------ Operate the controls by means of motor and gears according to signals provided from the receiver.

Antenna ----------- Plays an important role of emitting the wave signals from the transmitter antenna, and the receiver antenna catches them. They must be fully extended when in operation.

Trim Lever -------- Adjust the neutral position of the servos and fine tuning of steering, and of the speed controller.

Battery Meter------ This indicates the power of the transmitter battery.

Servo Horn-------- This is to transfer the movements of the servo to a controlled component. There are several types of shapes.

*Please read through these instructions before assembly. Your through understanding of the assembly will enable you to build the kit without difficulty. Check the components in the kit prior to your startings the assembly. Any claims for replacements or refunds for the model in the process of assembly will not be accepted.

〈Please understand the following points before assembly〉

1. Learn the marks described in the instruction

Points where grease should be applied. (It will reduce friction and assure smooth movement.)

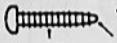
Steps where your particular attention is required.

2. Some Hints when screwing in a self-tapping-screw, (hereinafter referred to as TP Screw.) This model uses a lot of plastic parts. And many TP Screws will be used for assembling. 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 threaded part on the screw goes into the plastic parts and you feel some resistance from the tightening.

3. Shape of Screw

You can distinguish the ordinary screw form the self-tapping one by the shape of points and thread.

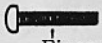
*TP Screw



The points is sharpened.

Coarse Thread

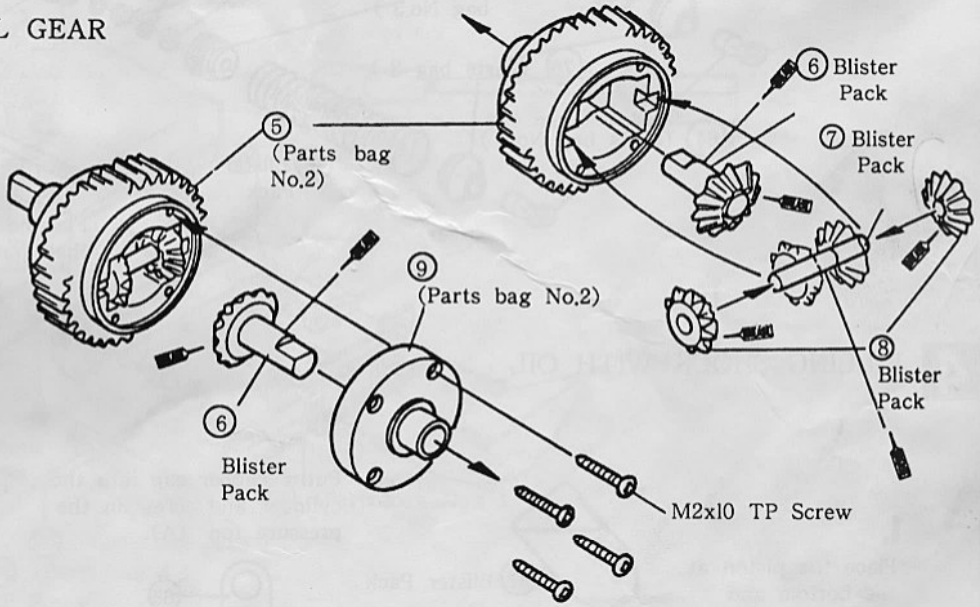
*Ordinary Screw



Finer Thread

1 ASSEMBLY OF DIFFERENTIAL GEAR

*Assemble two differential gears for the front and rear.



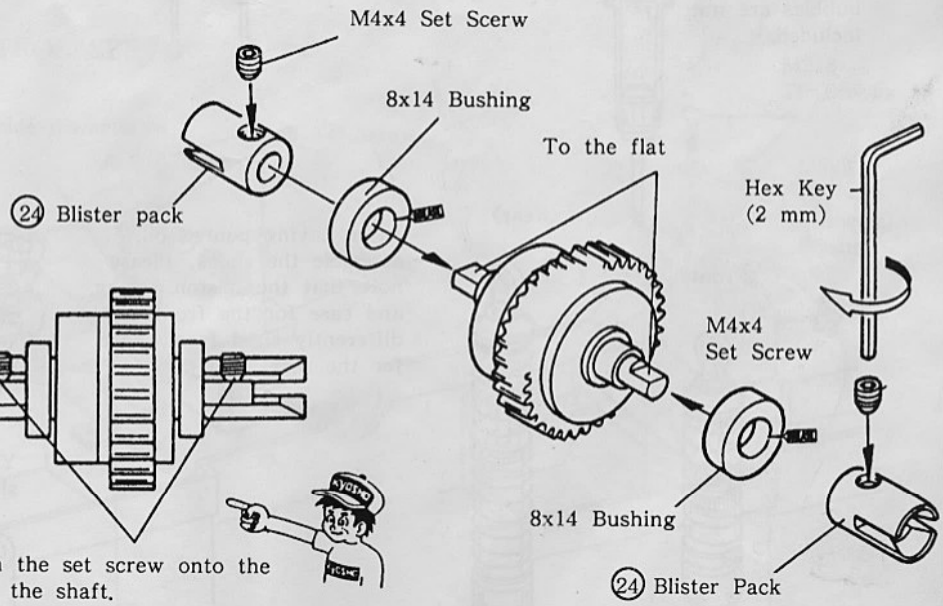
M2x10 TP Screws (8)

⑥ Bevel Gears (A) (4)

⑧ Bevel Gears (B) (4)

⑥ Bevel Shafts (2)

2 FIXING JOINT



M4x4 Set Screws (4)

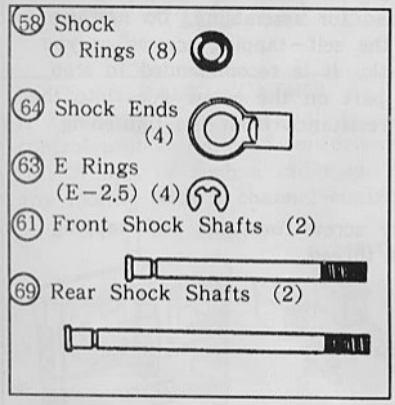
㉔ Joints (4)

⑪ 8 φ x14 φ Bushings (4) (Gold Color)

Allen Wrenchs (2)

Tighten the set screw onto the flat on the shaft.

3 ASSEMBLY OF SHOCK



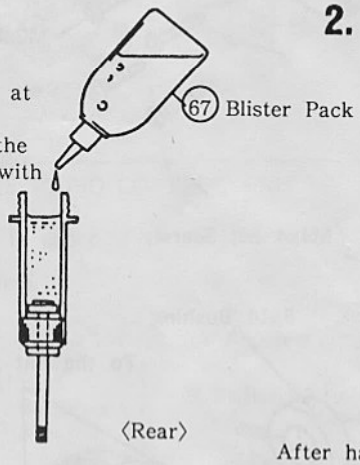
When removing plastic parts, cut them neatly out from the sprue runner using something like a round cutter.

The parts with * marks are commonly used for the front and rear.

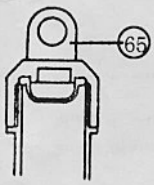
Fix the spindle to the piston, and then put an E−ring.

4 FILLING SHOCK WITH OIL

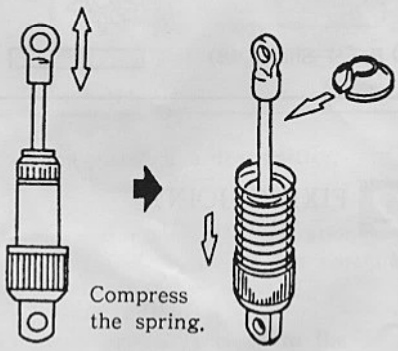
1. Place the piston at the bottom and pour oil up to the point as shown with care so that air bubbles are not included.



2. Put a rubber cap into the cylinder and screw in the pressure top (A).

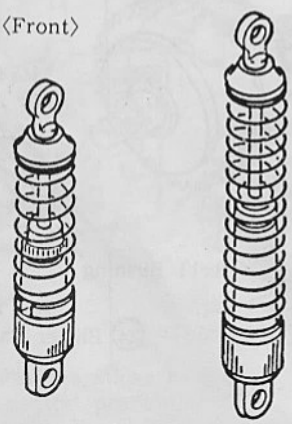


3. Confirm if the piston will move smoothly up and down, and put the spring and the spring holder.



Compress the spring.

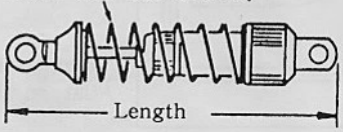
〈Front〉 〈Rear〉



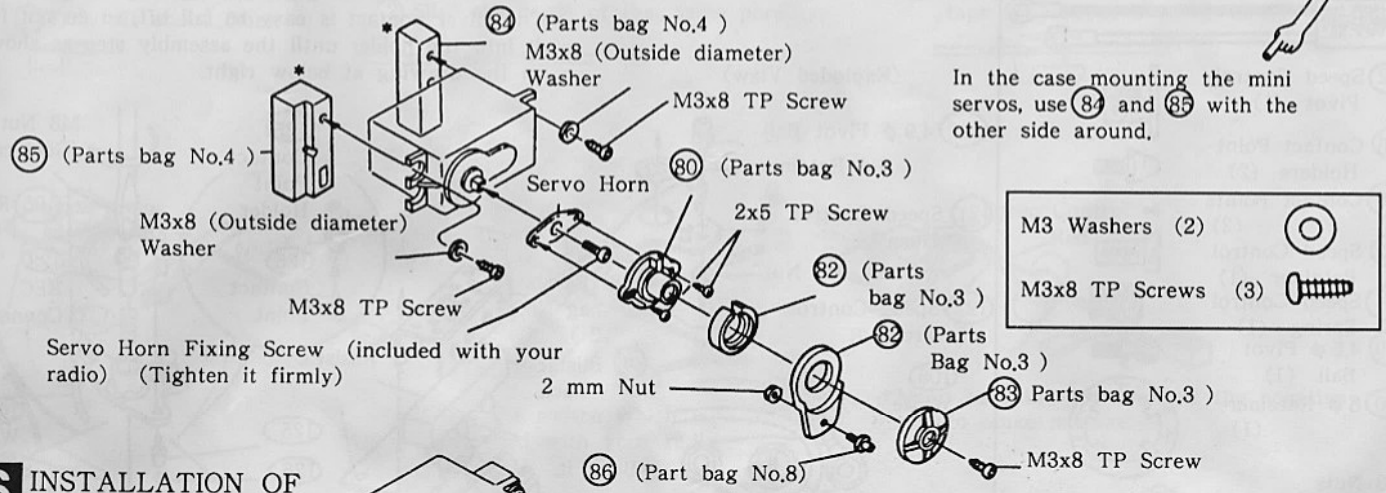
After having poured oil, assemble the shock. Please note that the piston, spring, and case for the front are differently sized from those for the rear.

4. Adjust it so that the right and left shocks become of the same length.

You can shift the length by thruning the shock end out and in.



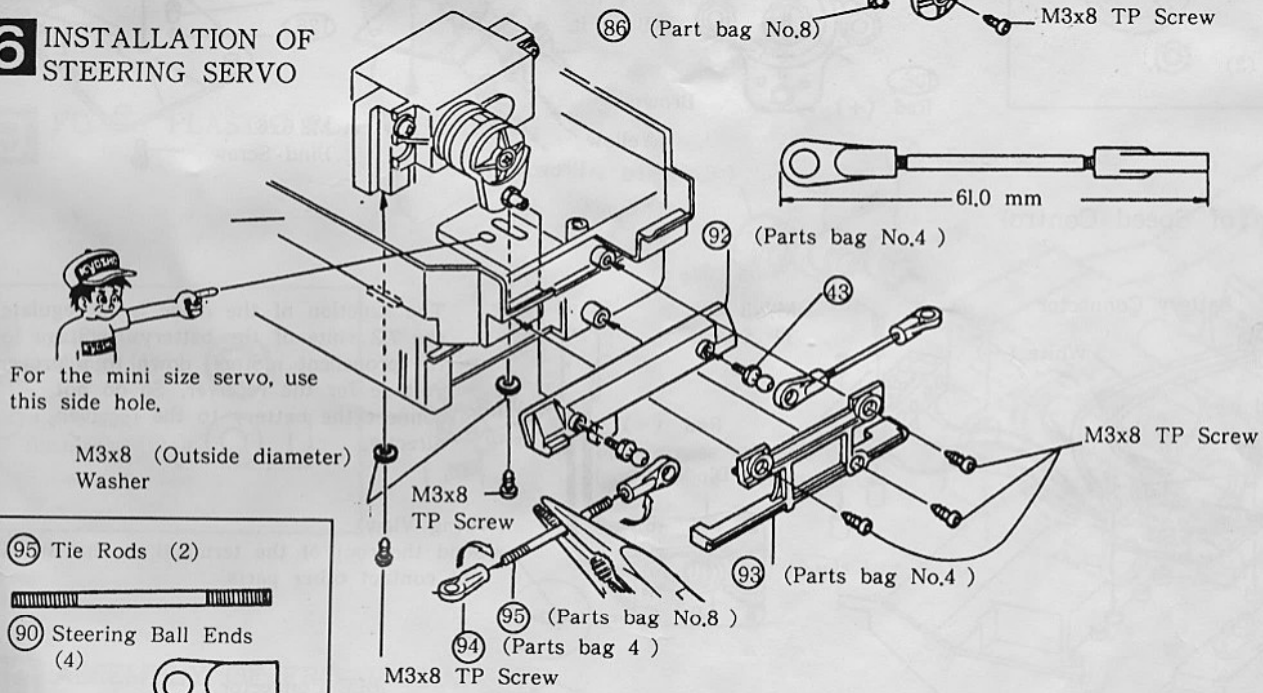
5 ASSEMBLY OF SERVO SAVER



In the case mounting the mini servos, use (84) and (85) with the other side around.

M3 Washers (2)	
M3x8 TP Screws (3)	

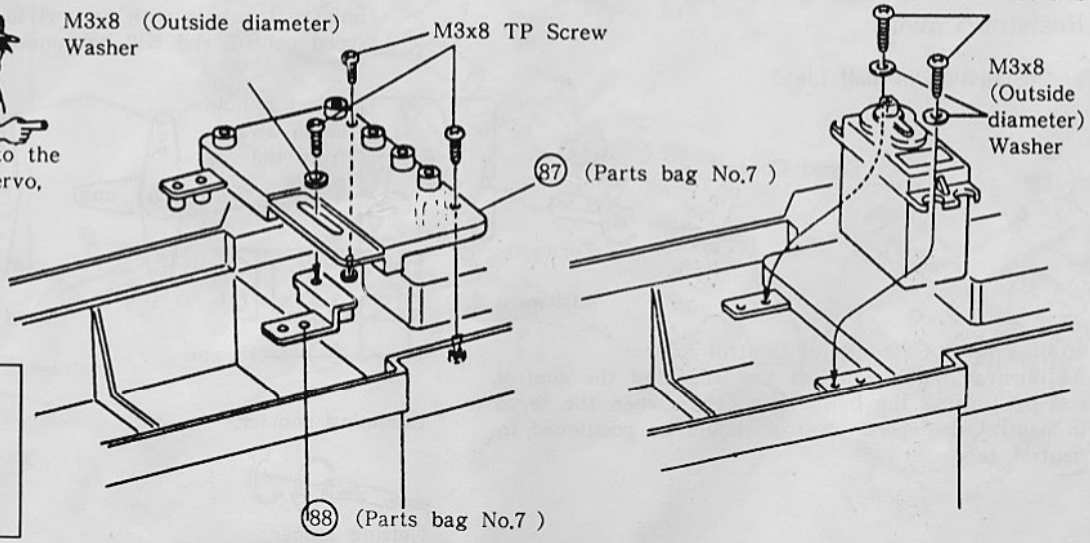
6 INSTALLATION OF STEERING SERVO



(95) Tie Rods (2)	
(90) Steering Ball Ends (4)	

7 INSTALLATION OF SPEED CONTROL SERVO

Arrange the servo stay C to the size of the speed control servo, then install the stay.



M3x8 TP Screws (5)	
M3 Washers (3)	

8 ASSEMBLY OF SPEED CONTROL PORTION

BEC

*This model is designed for the BEC type radio. When you use any radio other than the BEC type, refer to 8 -4

(127) 7.2V Connector

(122) Speed Control Pivot (1)

(125) Contact Point Holders (2)

(126) Contact Points (2)

(122) Speed Control Retainer (1)

(124) Speed Control Spring (1)

(119) 4.5 φ Pivot Ball (1)

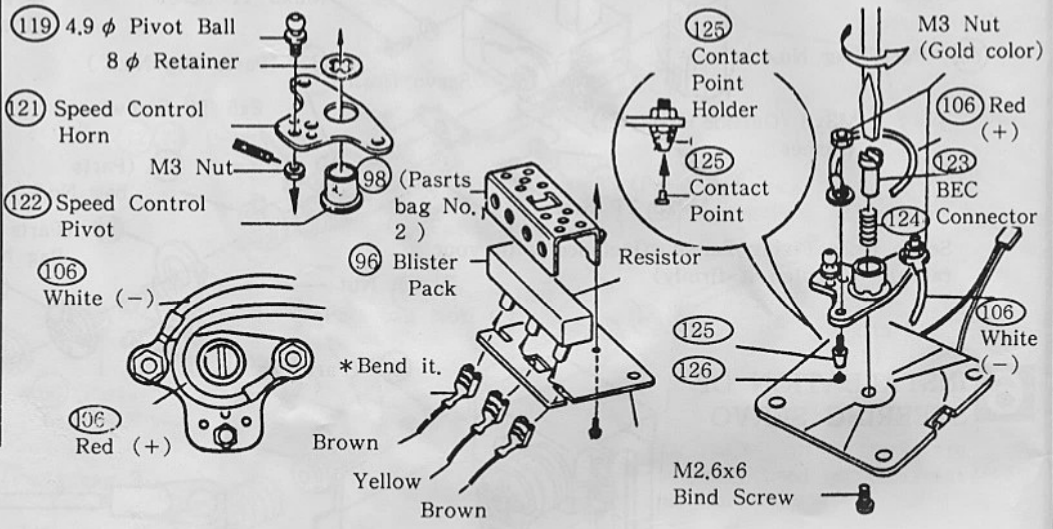
(120) 8 φ Retainer (1)

M3 Nuts (Gold Color) (2)

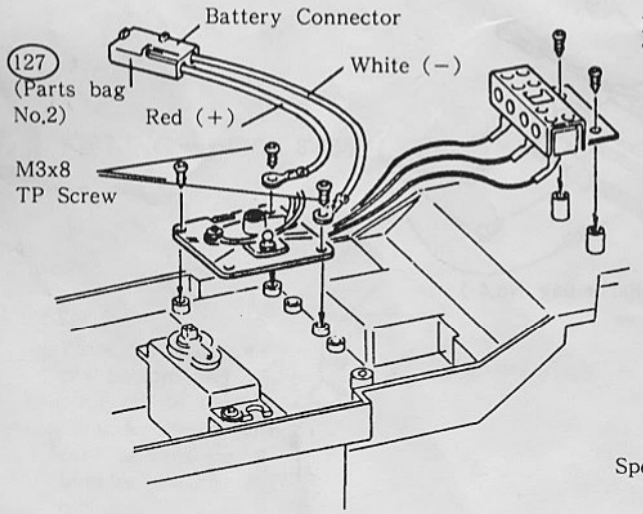
1. Assembly of Control

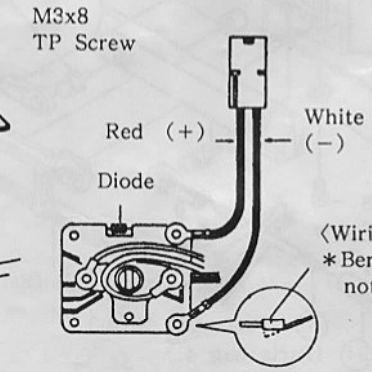
*The silver contact is easy to fall off, so do not fit it into the holder until the assembly step as shown in the drawing at below right.

〈Exploded View〉



2. Installation of Speed Control

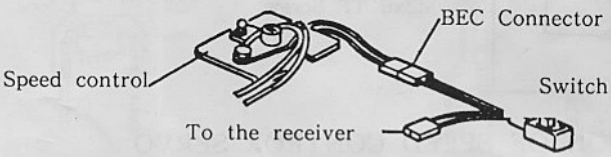




The function of the diode is to regulate the 7.2 volts of the battery (voltage for the propellent motor) down to a proper voltage for the receiver. So do not connect the battery to the receiver directly.

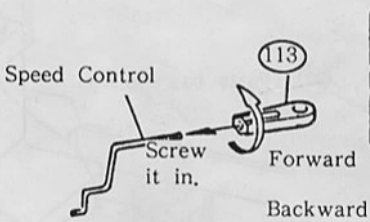
〈Wiring View〉

*Bend the root of the terminal so that it will not contact other parts.



3. Installation of Speed Control Rod and Resistor Cover

〈Installation of Ball Link〉

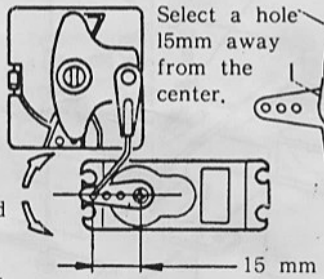


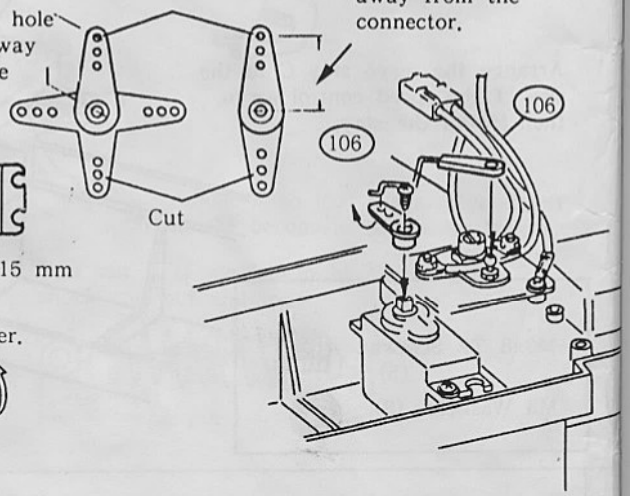
〈Adjustment of Length of Control Rod〉

As illustrated above, adjust the length of the control rod by turning the ball link so that, when the servo is in neutral, the speed control should be positioned in neutral, too.

〈Preparation of Servo Horn for Speed Control〉

Enlarge the hole with an awl to which the speed control rod will be connected.





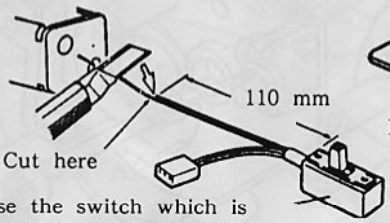
BEC For those who use a BEC type radio, please skip the step 4, and proceed to the next step.

〈How to Connect the Lead Wire〉

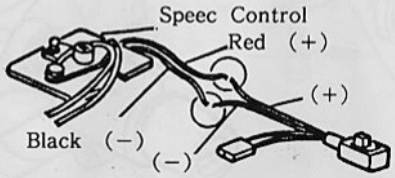
① Trim off about 5mm.

② Slice the cords of the same porality.

③ Insulate the connection points with vinyl tape to prevent a short−circuit.

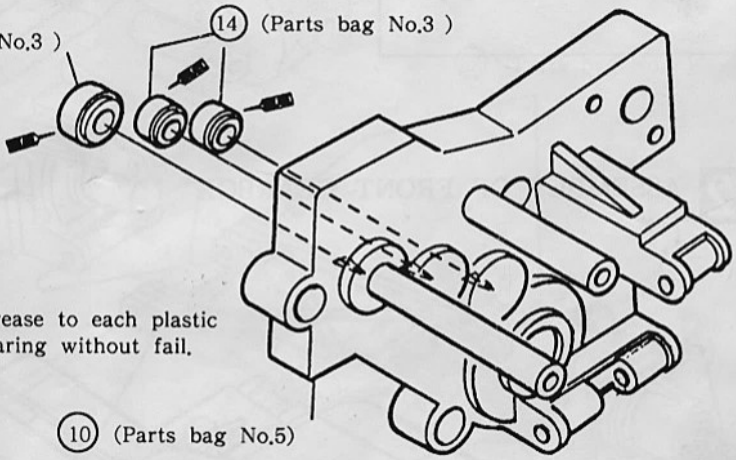


Use the switch which is provided with your radio.



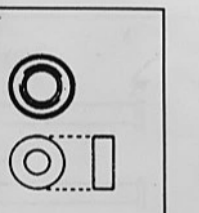
*Make sure the positive and the negative not to make mistake.

9 FIXING PLASTIC PLAIN BEARING



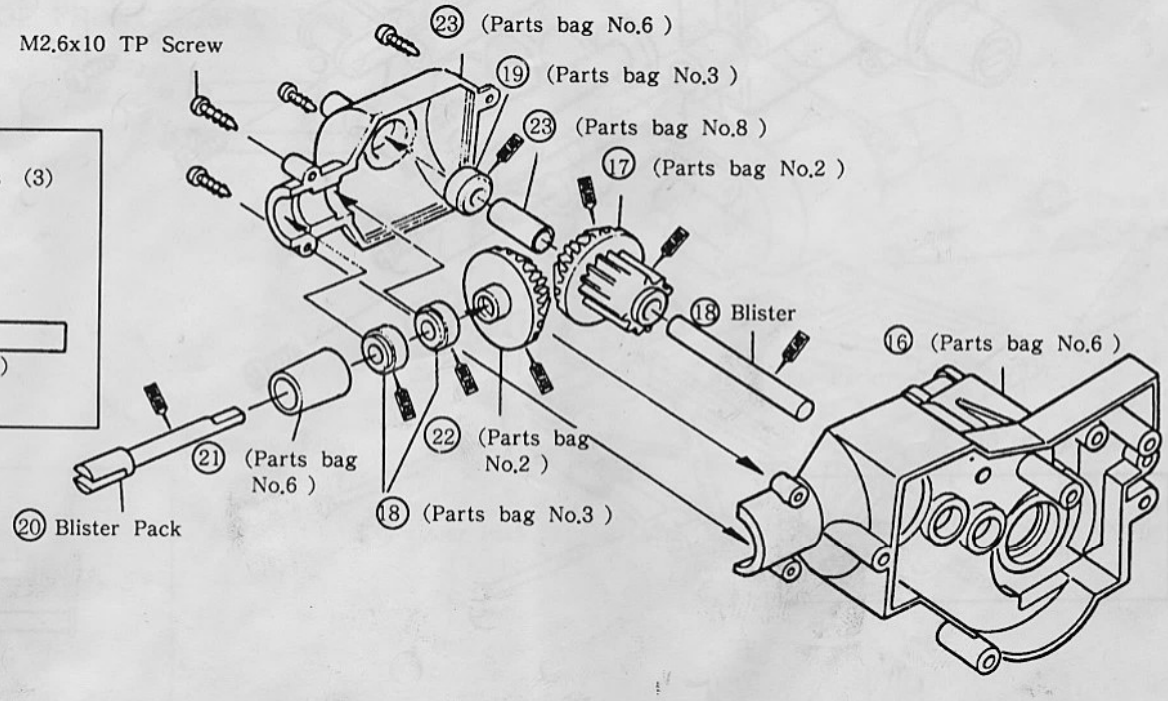
⑲ 5 φ Plastic Bushing (1)

⑭ 4 φ Plastic Bushings (2)



*Apply grease to each plastic plain bearing without fail.

10 ASSEMBLY OF FRONT TRANSFER

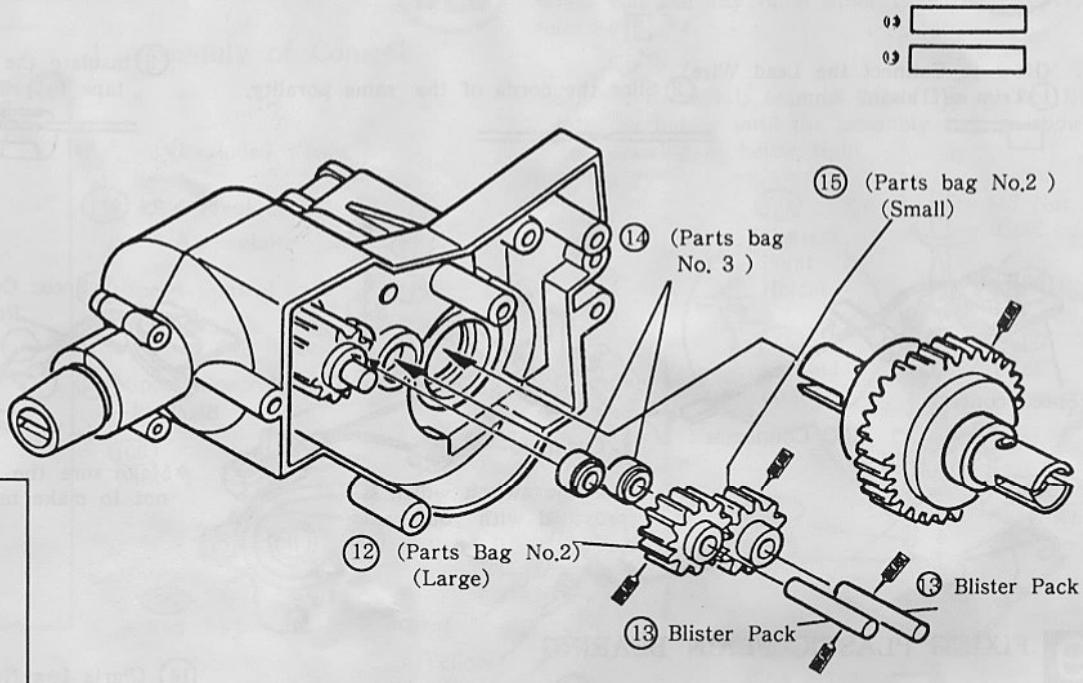


⑲ 5 φ Plastic Bushings (3)

⑱ Gear Shaft D (1)

M2.6x10 TP Screws (4)

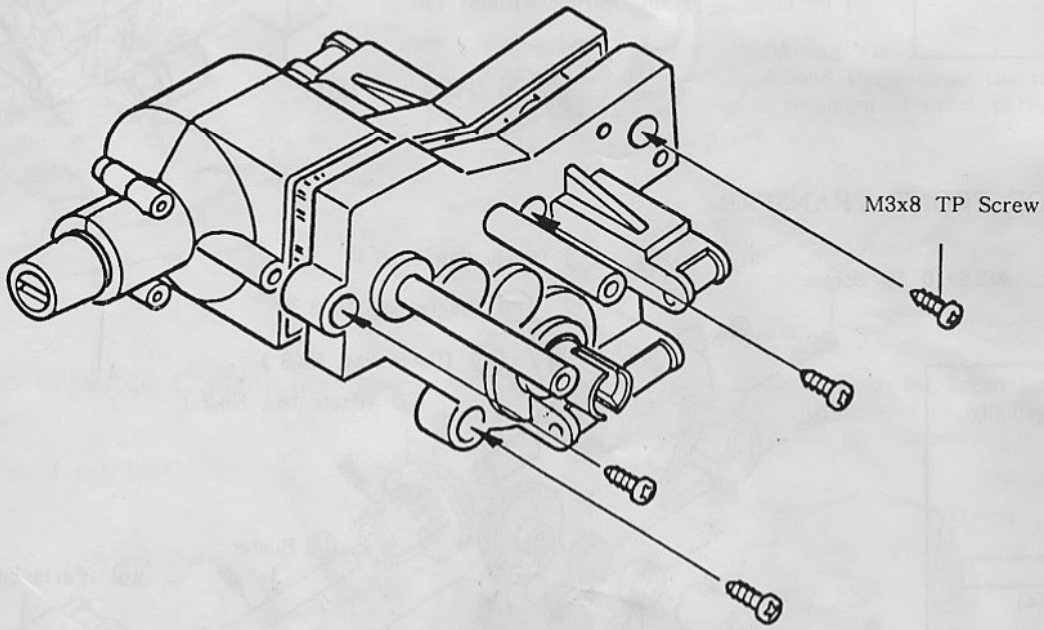
11 ASSEMBLY INSIDE COMPONENTS OF FRONT GEARBOX



⑭ 4 ϕ Plastic Bushings (2)

⑬ Gear Shafts A (2)

12 ASSEMBLY OF FRONT GEARBOX



M3x8 TP Screws (4)

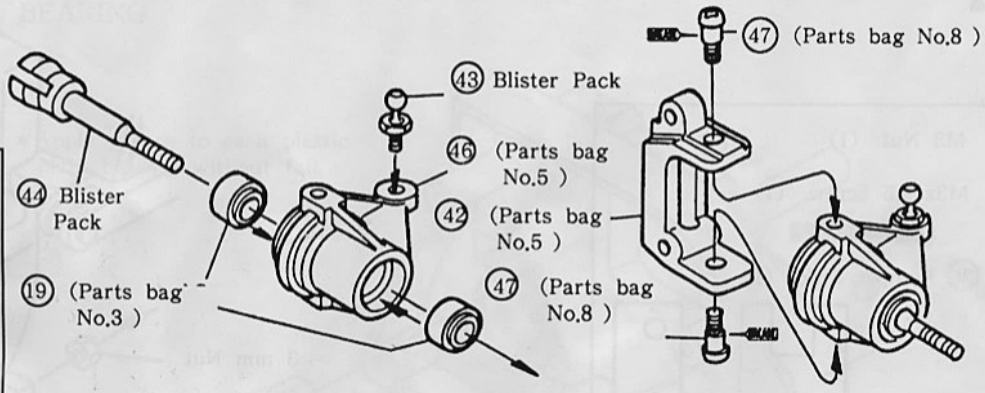
13 ASSEMBLY OF FRONT KNUCKLE ARM

* Assemble the right side counterpart in the same way.
* (L) is described on the left side portion, and (R) on the right side one.

(44) Wheel Shafts (2)

(19) 5 φ Plastic Bushings (4)

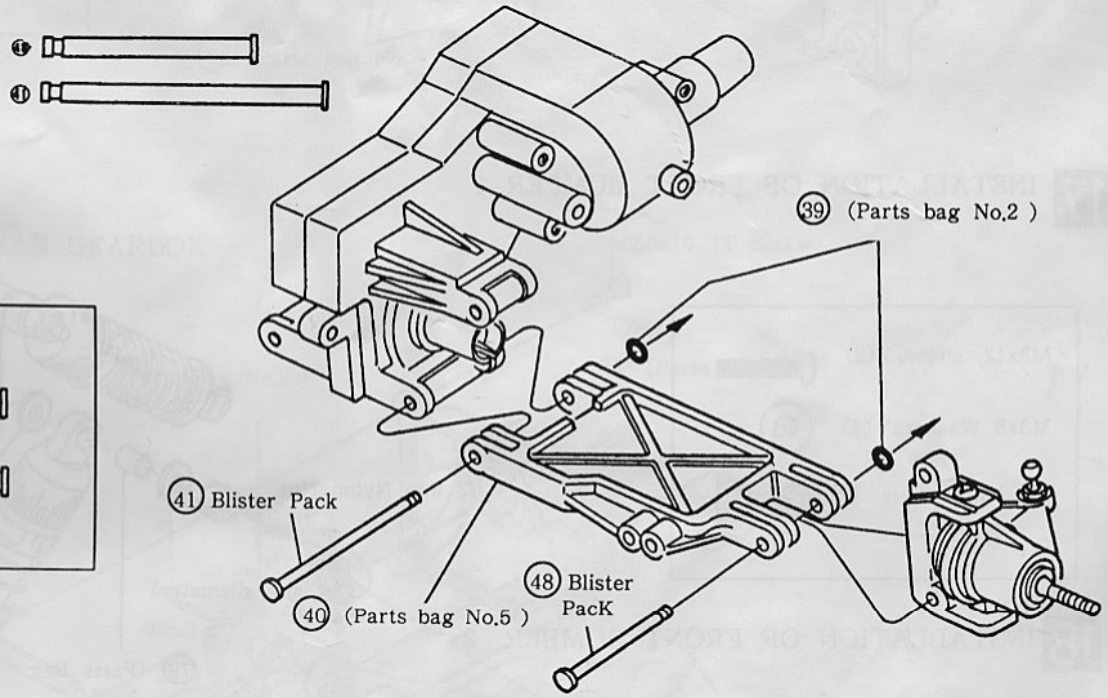
(47) King Pins (4)



14 INSTALLATION OF FRONT LOWER ARM

(48) Sus. Shasfts C (2)

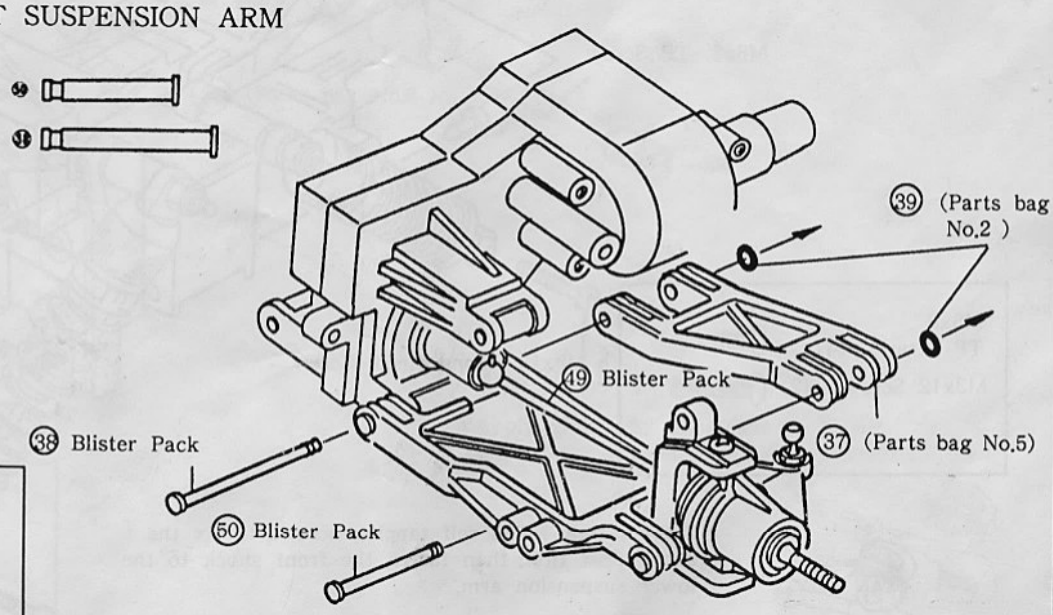
(41) Sus. Shafts E (2)



15 ASSEMBLY OF FRONT SUSPENSION ARM

(50) Sus. Shafts A (2)

(38) Sus. Shafts B (2)

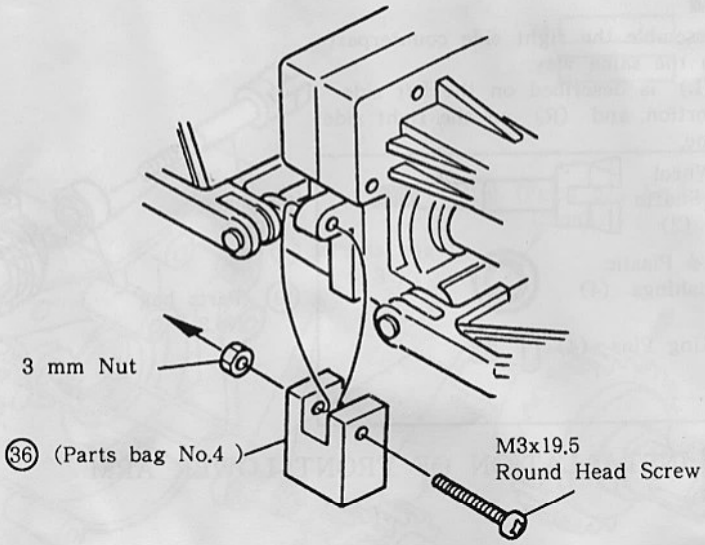


16 INSTALLATION OF BUMPER

M3 Nut (1)

M3x19.5 Screw (1)

36 Bumper Stay (1)

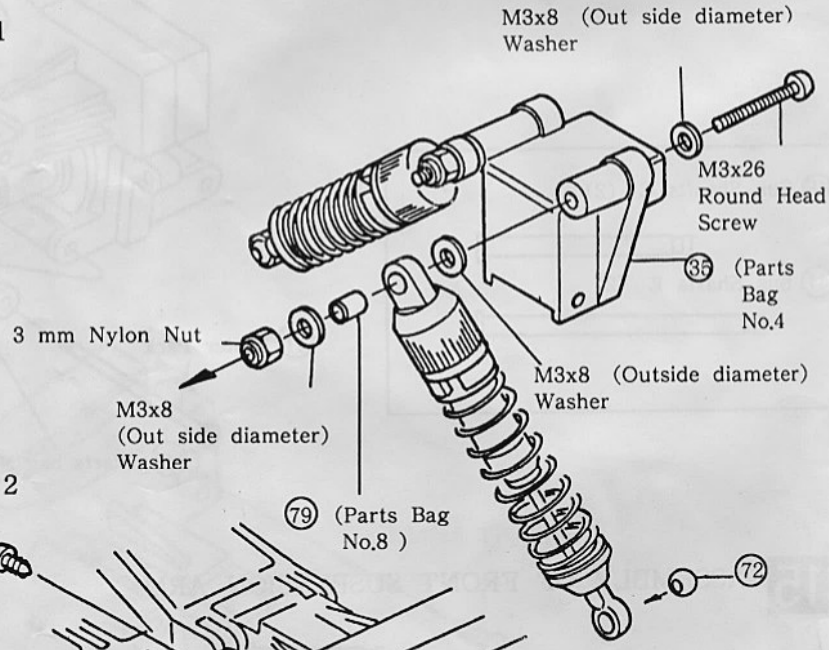


17 INSTALLATION OF FRONT BUMPER 1

M3x12 Screws (2)

M3x8 Washers (4)

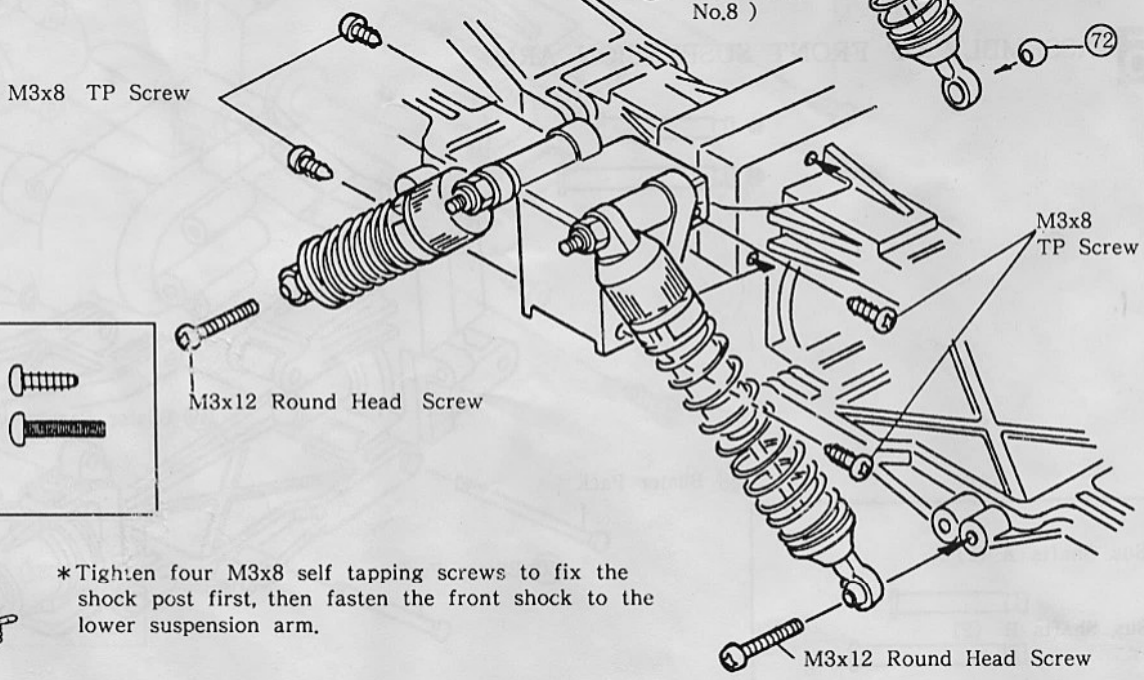
M3 Nylon Nuts (2)



18 INSTALLATION OF FRONT BUMBER 2

M3x8
TP Screws (4)

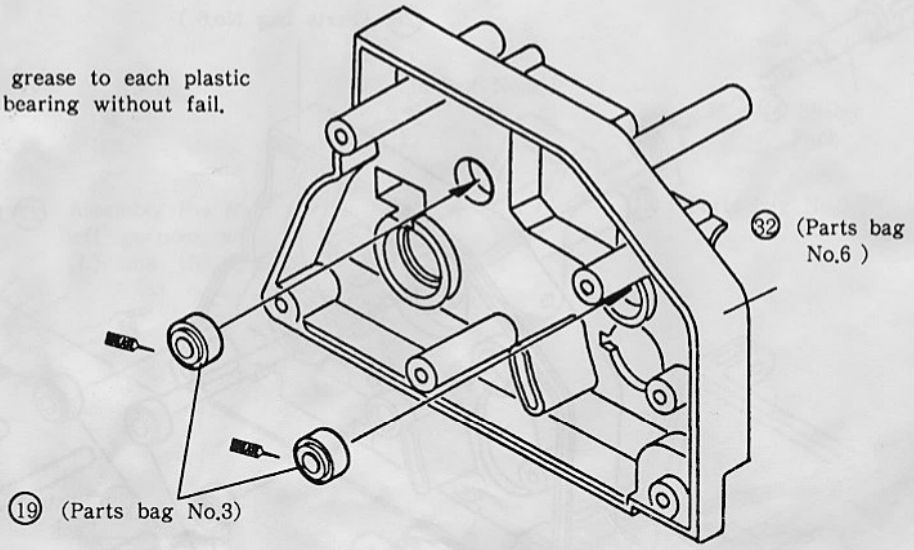
M3x12 Screws (2)



*Tighten four M3x8 self tapping screws to fix the shock post first, then fasten the front shock to the lower suspension arm.

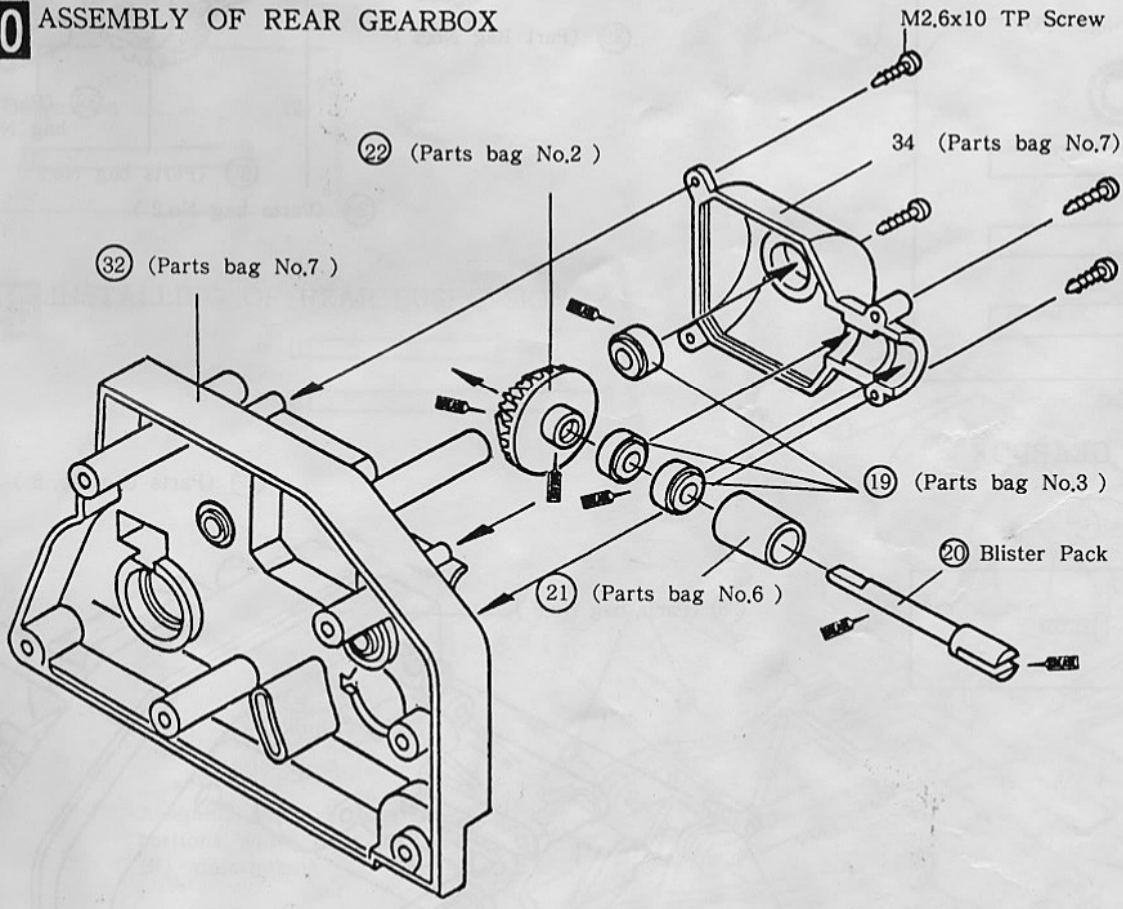
19 FIXING PLASTIC PLAIN BEARING

*Apply grease to each plastic plain bearing without fail.



⑲ 5 φ Plastic Plain Bearings (2)	

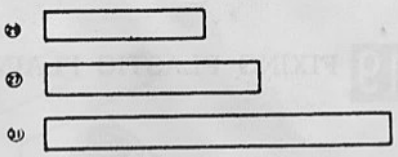
20 ASSEMBLY OF REAR GEARBOX

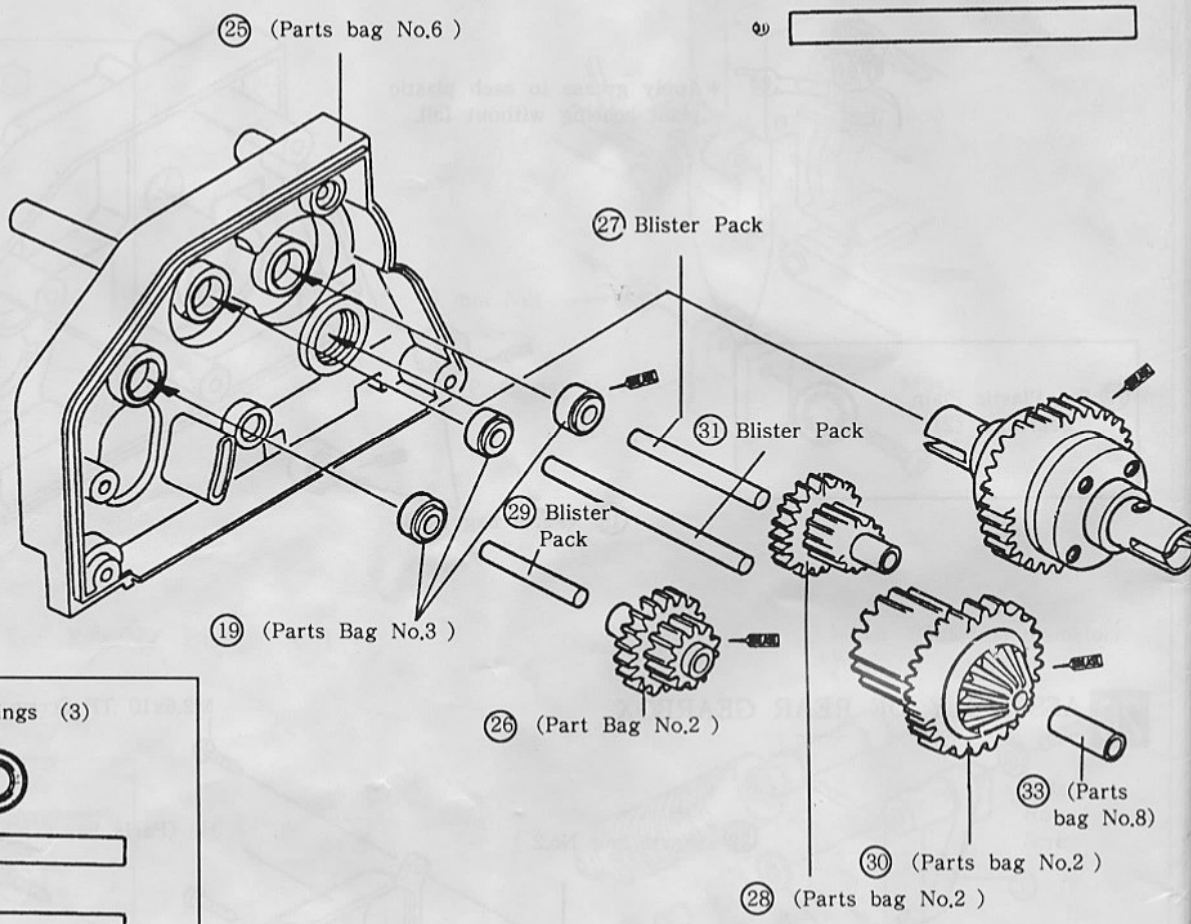


*Apply grease by all means to plastic plain bearings, shafts, and the gearbox.

⑲ 5 φ Plastic Plain Bushings (3)	
M2.6x10 TP Screws (4)	

21 ASSEMBLING INSIDE COMPONENTS OF GEARBOX

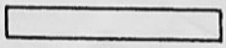




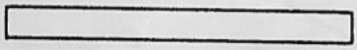
⑲ 5 φ Plastic Plain Bearings (3)

㉙ Gear Shaft B (1)

㉗ Gear Shaft C (1)

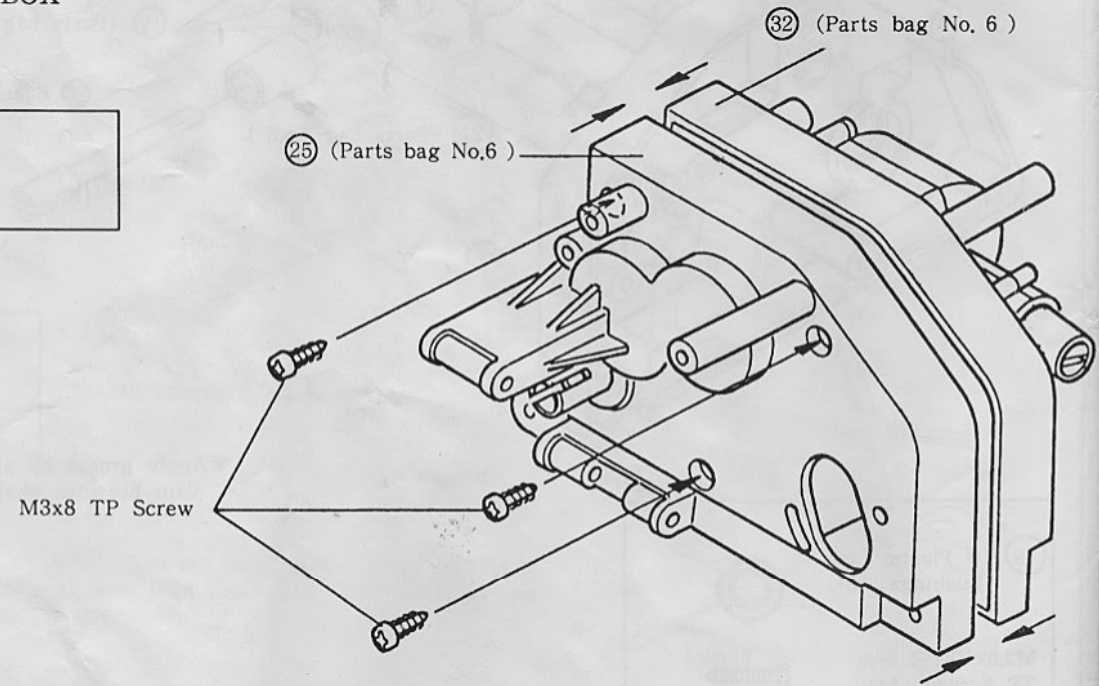


㉛ Gear Shaft E (1)



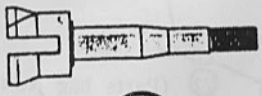
22 ASSEMBLY OF GEARBOX

M3x8 TP Screws (3)

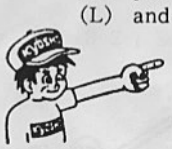


23 ASSEMBLING OF REAR HUB

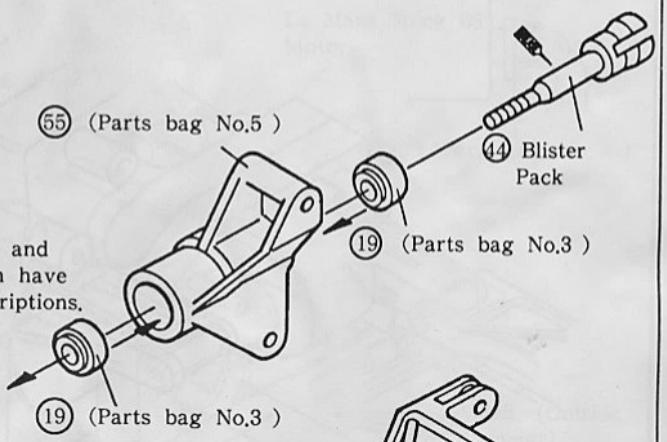
(44) Wheel Shafts (2)



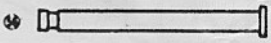
(19) 5 φ Plastic Plain Bearings (4)

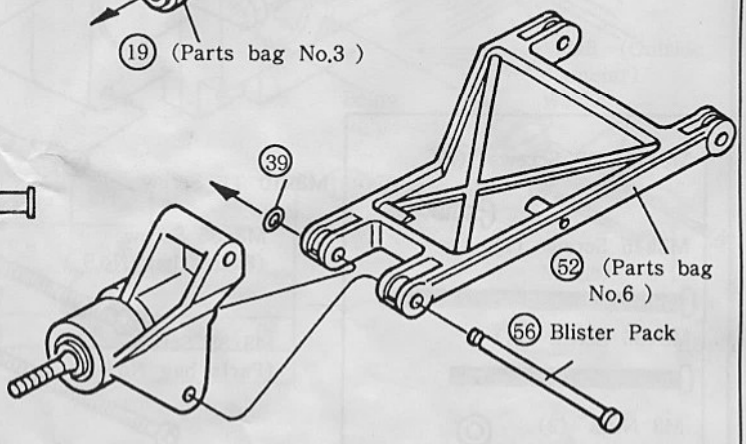


Assembly the right and left portions, which have (L) and (R) descriptions.

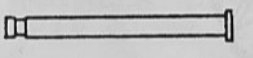


24 INSTALLING OF REAR HUB

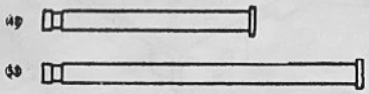




(56) Suspension Shafts (D) (2)

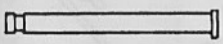


25 INSTALLING OF REAR SUSPENSION

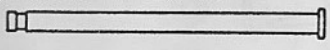


Assembly the right and left portions, which have (L) and (R) descriptions.

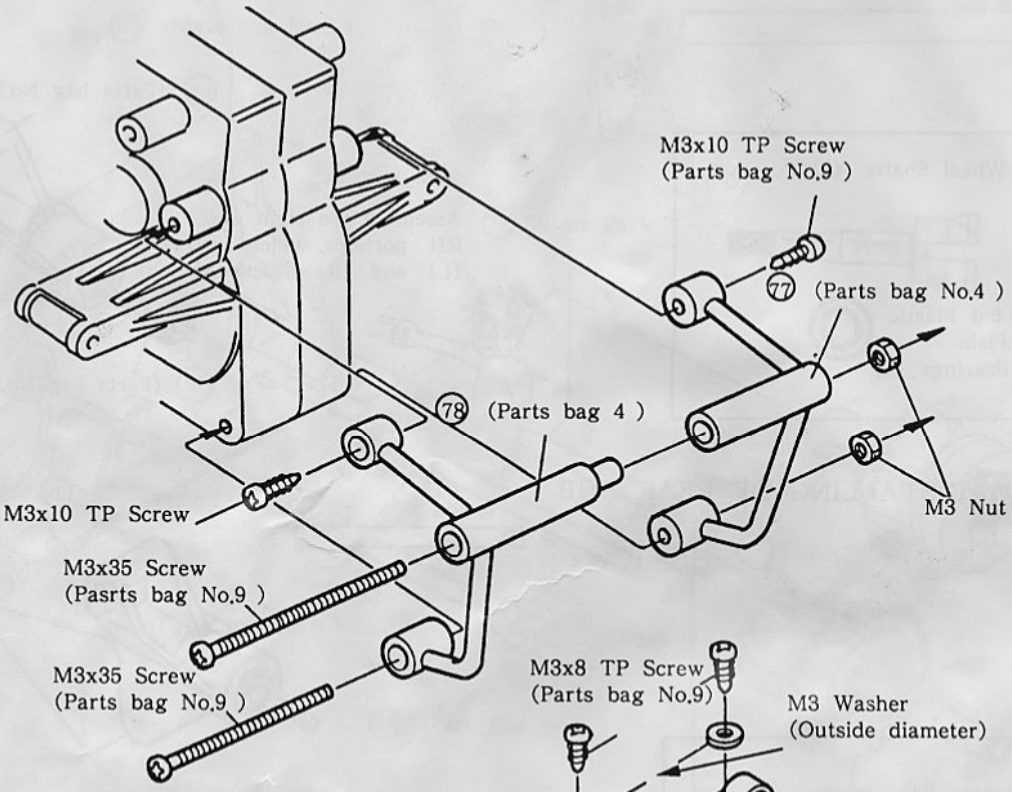
(48) Sus. Shafts (C) (4)



(53) Sus. Shafts (F) (2)



26 INSTALLATION OF REAR GUARD



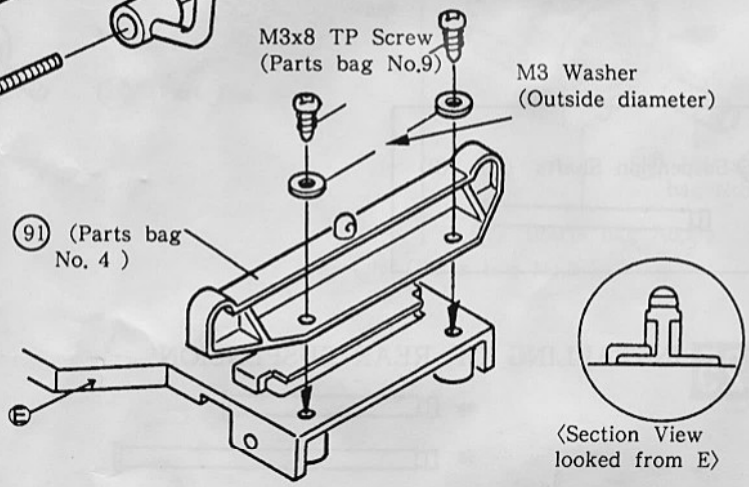
M3x10 TP Screws (2)

M3x45 Screw (1)

M3x35 Screw (1)

M3 Nuts (2)

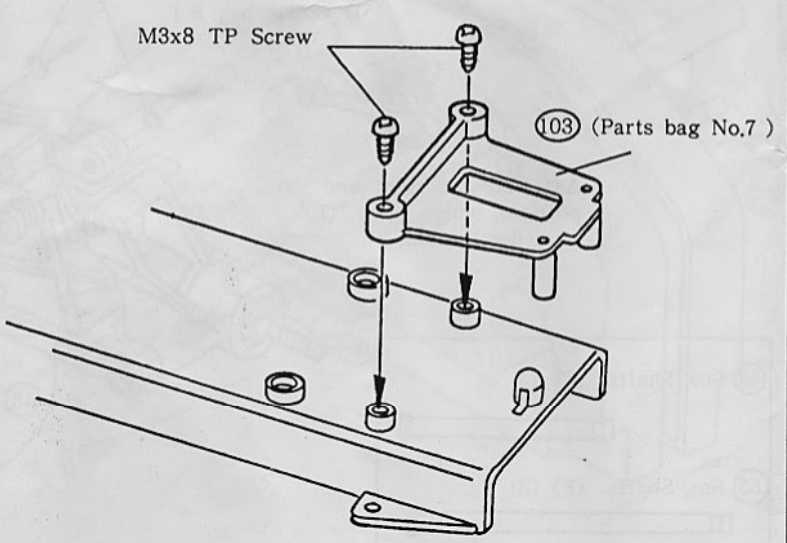
27 INSTALLATION OF REAR SHOCK



M3x8 TP Screws (2)

M3 Washers (2)

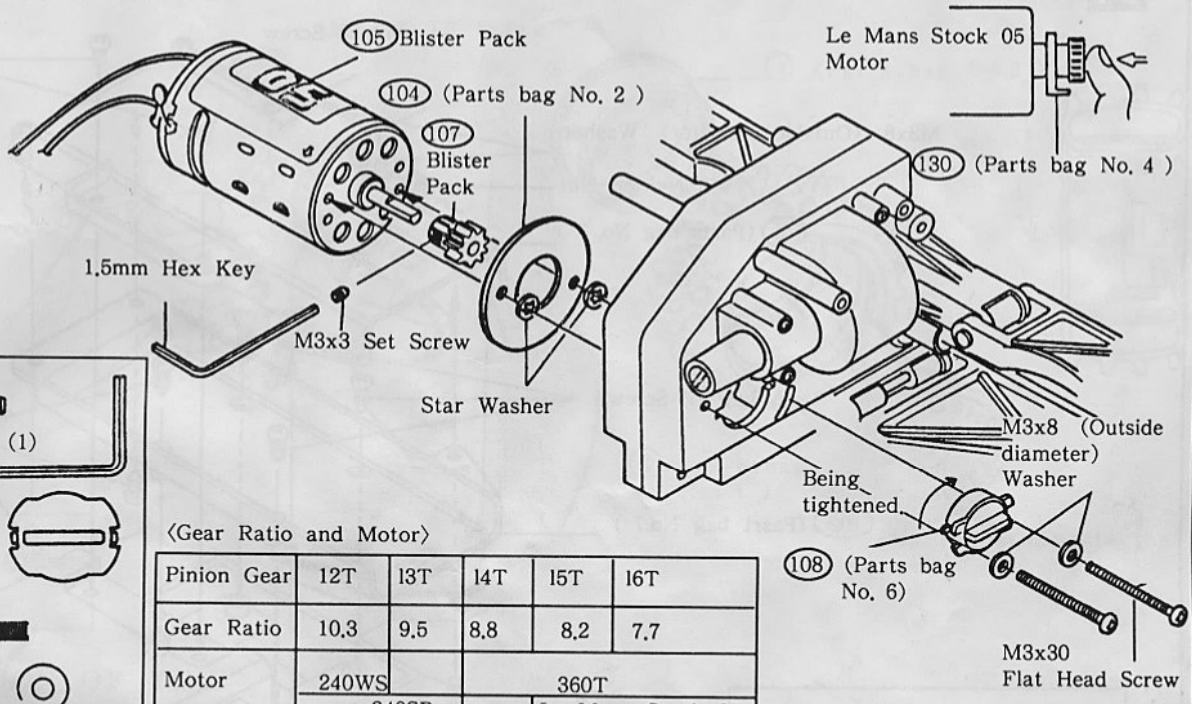
28 INSTALLATION OF BATTERY STOPPER



M3x8 TP Screws (2)

29 INATALLATION OF MOTOR

Set the M3x3 setscrew as you are pushing the gear, then pull off 130.



M3x3 Set Screw (1)

Allen Wrench (1.5) (1)

108 Pinion Cover (1)

M3x30 Screws (2)

M3 Washers (2)

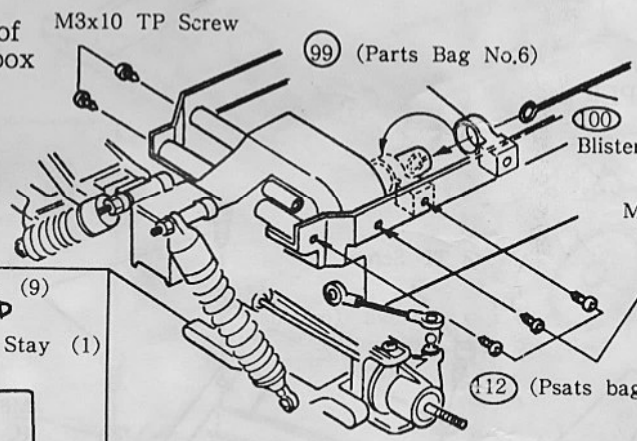
〈Gear Ratio and Motor〉

Pinion Gear	12T	13T	14T	15T	16T
Gear Ratio	10.3	9.5	8.8	8.2	7.7
Motor	240WS		360T		
	240SB			Le Mans Stock 05	
	H240S				

30 INSTALLATION OF FRONT GEARBOX, REAR GEARBOX AND REAR SHOCK

1. Installation of Front Gearbox

Fit the front gearbox to the chassis and bolt it down with the specified screws.

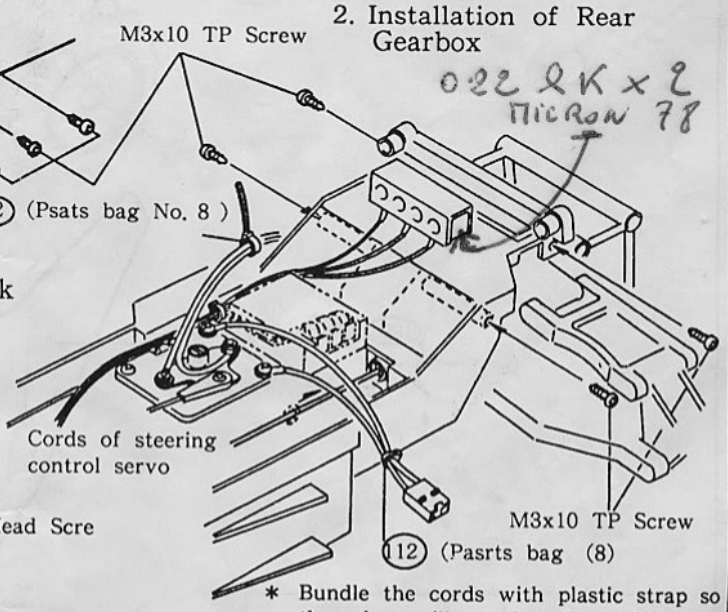


M3x10 TP Screws (9)

99 Front Gearbox Stay (1)

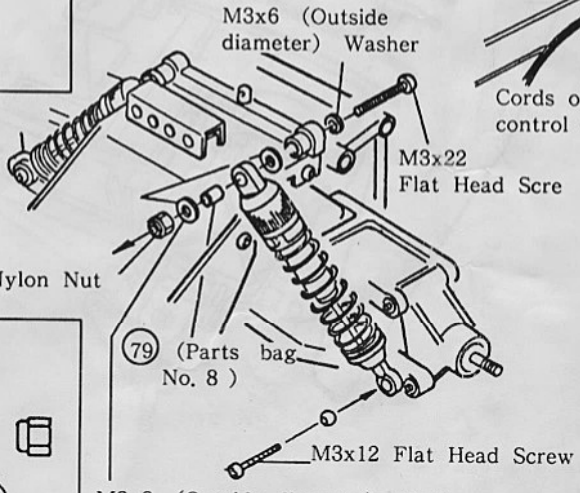
M3x12 Screws (2)

2. Installation of Rear Gearbox



* Bundle the cords with plastic strap so that they will not interfere with the moving parts.

3. Installation of Rear Shock



M3x22 Screws (2)

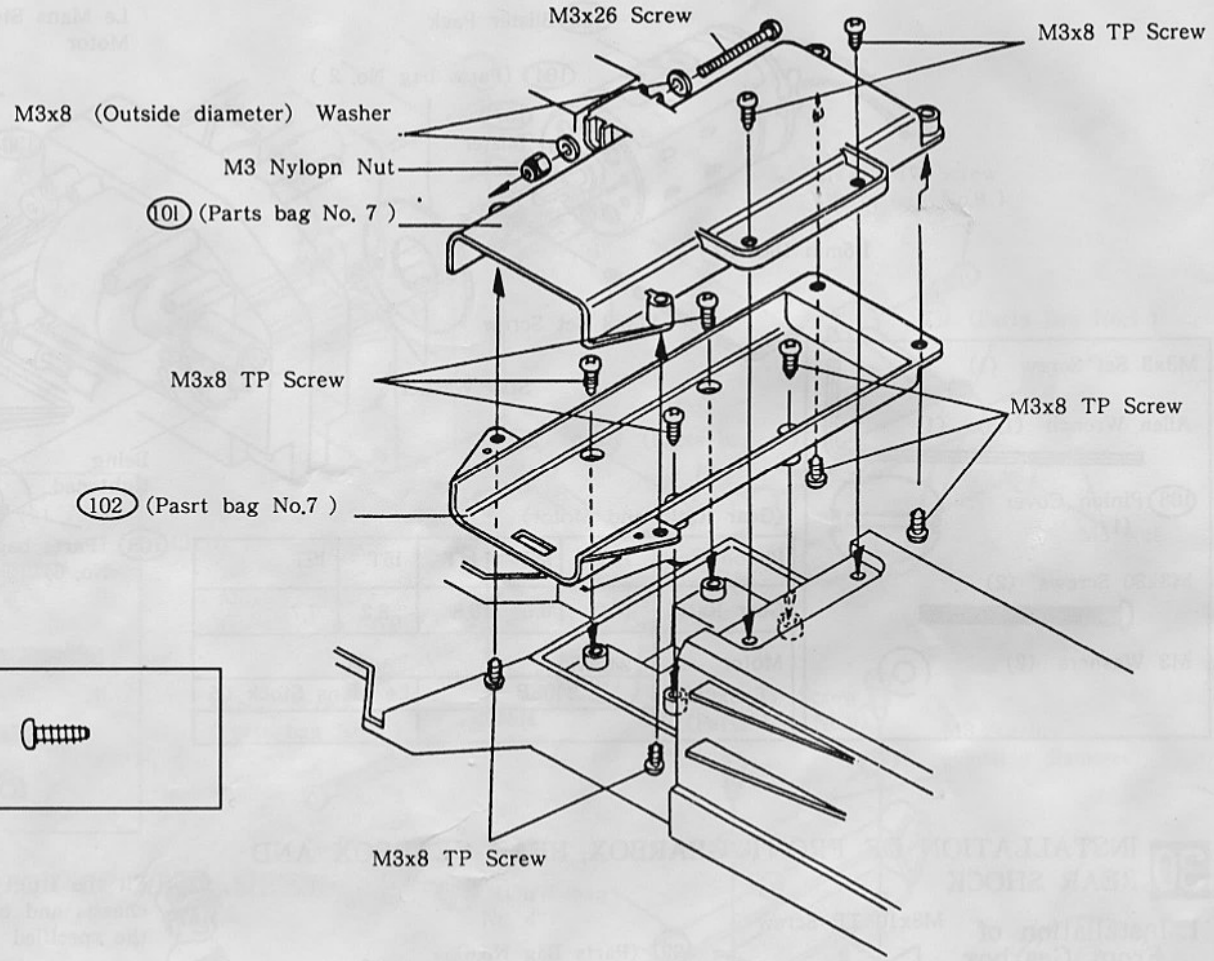
M3 Nylon Nuts (2)

M3 Washers (4)

* Fix the rear gearbox to the chassis while you are putting the center shaft into the center joint.

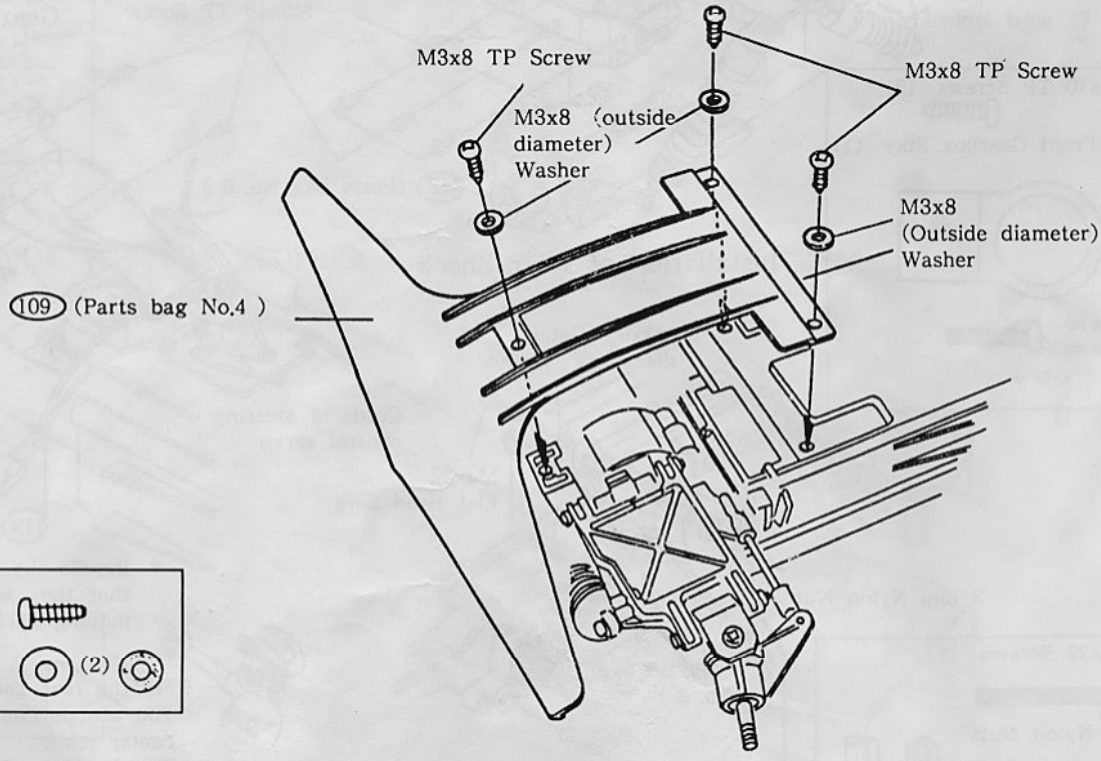
* The receiver will be mounted in step 37.

31 ASSEMBLY OF BATTERY BOX



M3x8 TP Screws (10)

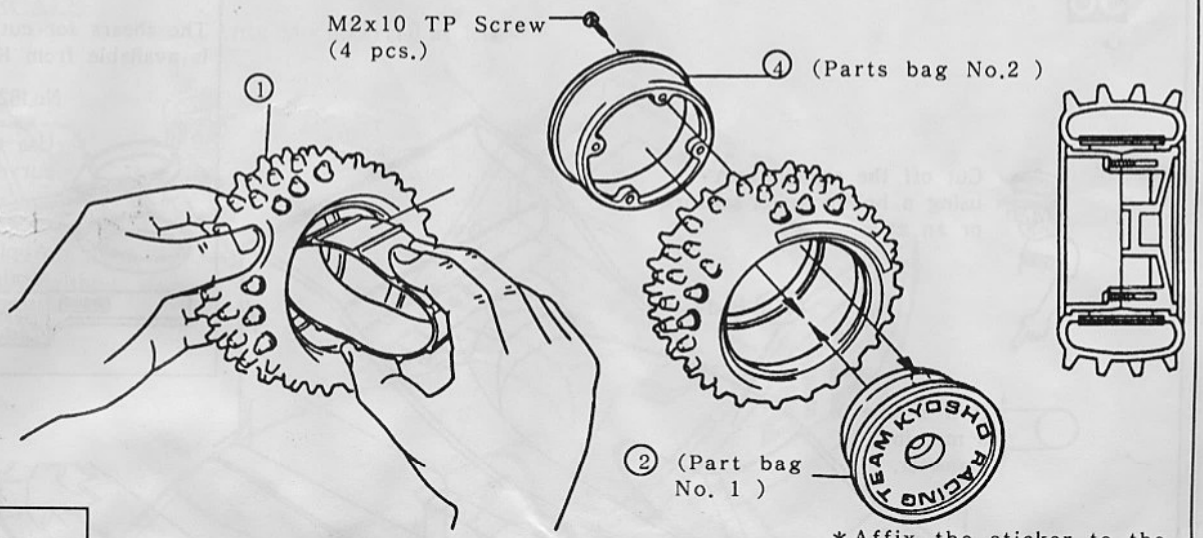
32 INSTALLATION OF FRONT BUMPER



M3x8 TP Screws (3)

M3 Washers (3) (2)

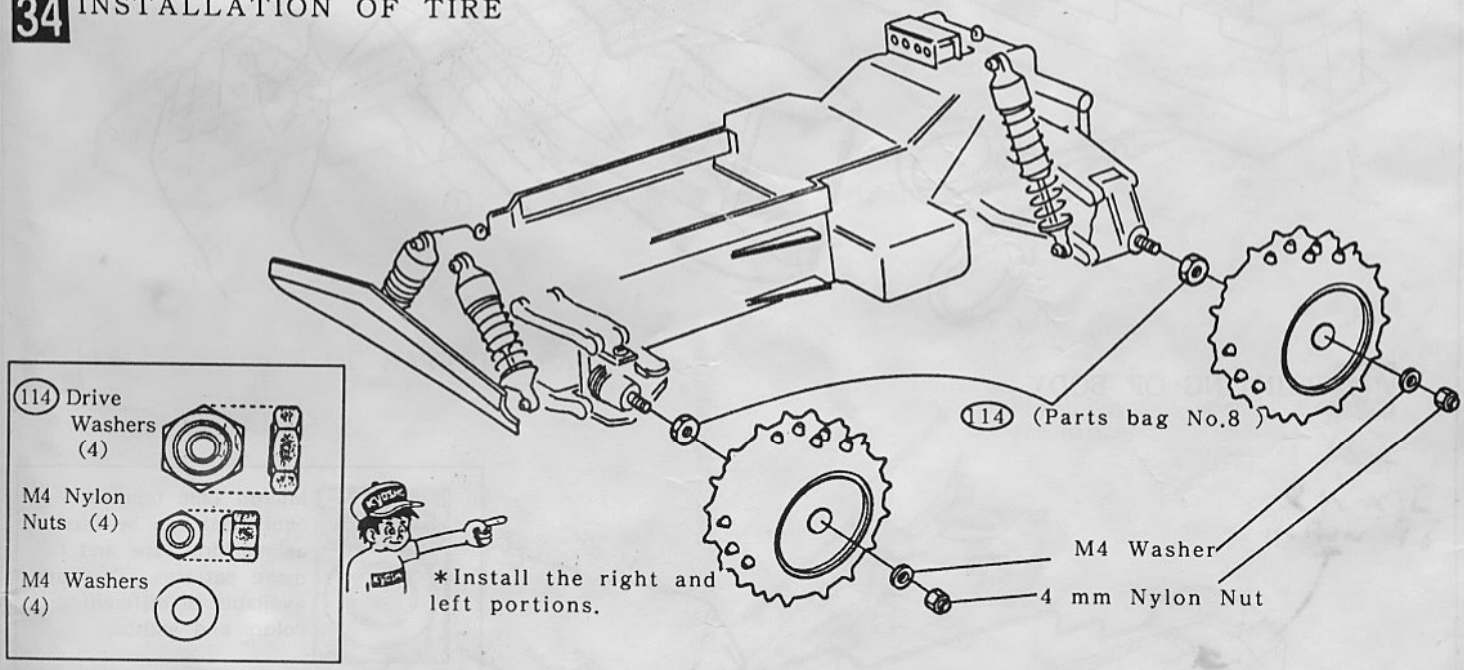
33 ASSEMBLY OF WHEEL



*Affix the sticker to the wheel.

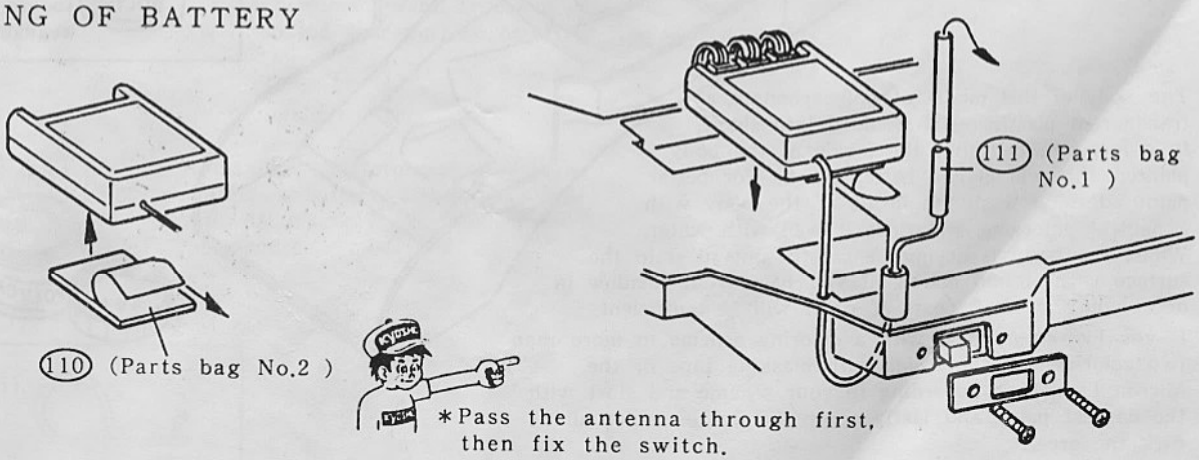
M2x10 TP Screws (16)

34 INSTALLATION OF TIRE



*Install the right and left portions.

35 MOUNTING OF BATTERY



*Pass the antenna through first, then fix the switch.

36 CUTTING OUT BODY

Cut off the shaded area using a hobby knife, scissors, or an awl.

(115) Body

Drill a hole of 6 mm in diameter.

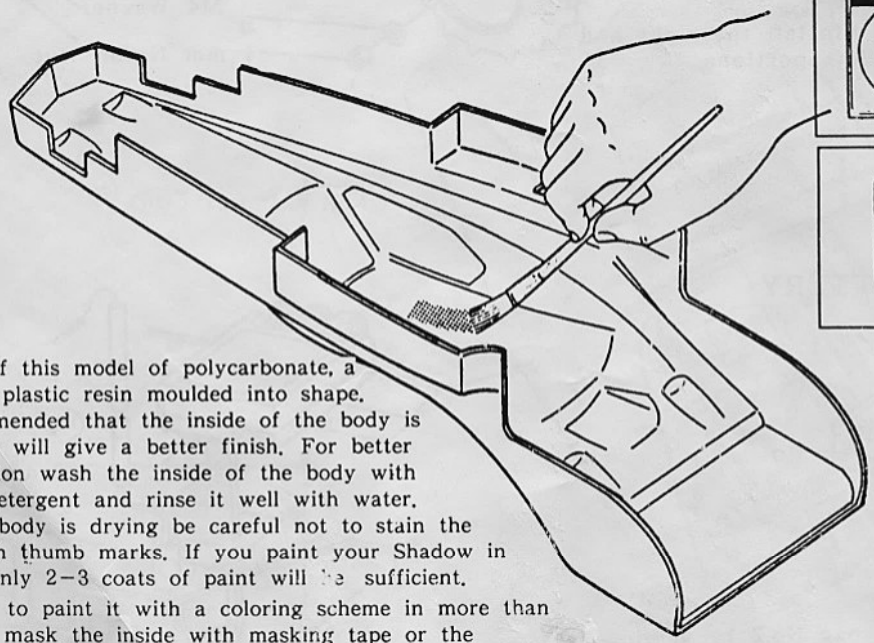
The shears for cutting polycarbonate is available from Kyosho.

No.1829

Use the curved lay for curved lines.

Apply the straight blades for straight lines.

37 PAINTING OF BODY



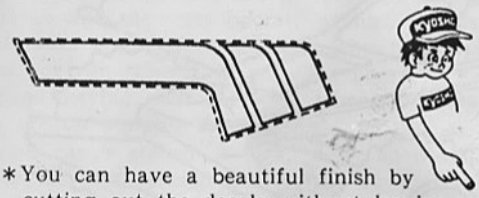
Micron Line tape or equivalent can be used as masking tape and to make patterns. They are available in different colors and widths.

Polyca Colors are paints composed exclusively for painting polycarbonate resin. They are very easy to use. Different colors are available.

The body of this model of polycarbonate, a transparent plastic resin moulded into shape. It is recommended that the inside of the body is painted, this will give a better finish. For better paint adhesion wash the inside of the body with a neutral detergent and rinse it well with water. Whilst the body is drying be careful not to stain the surface with thumb marks. If you paint your Shadow in one color only 2–3 coats of paint will be sufficient.

If you like to paint it with a coloring scheme in more than two colors, mask the inside with masking tape or the Micron Line Tape according to your scheme and start with the darkest paint, and lastly apply the lightest color all over the area.

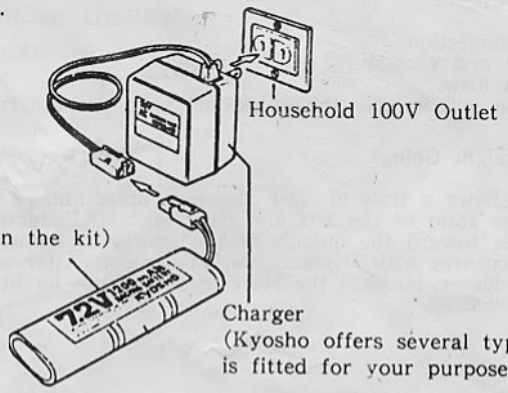
38 APPLYING DECALS

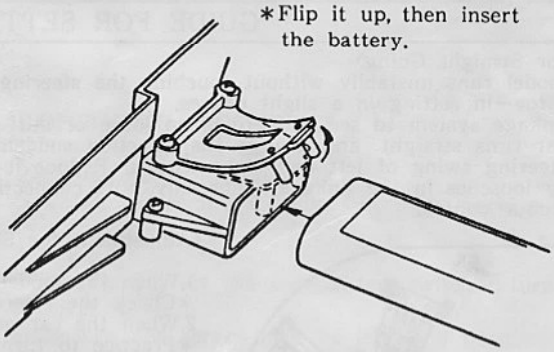


*You can have a beautiful finish by cutting out the decals without leaving margin.

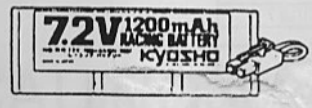
39 INSTALLATION OF BATTERY PACK

〈Charging NiCad Battery〉
Use always a fully charged battery.

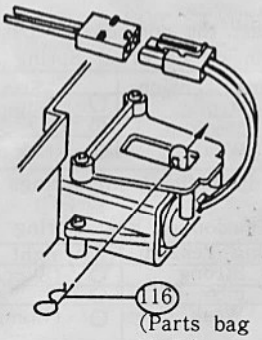




*Flip it up, then insert the battery.



For maximum performance, usea high performance battery. The Kyosho 7.2V Power Battery or Racing Battery is recommended.



(116) Body Pin (1)

KEY NUMBERS OF PARTS

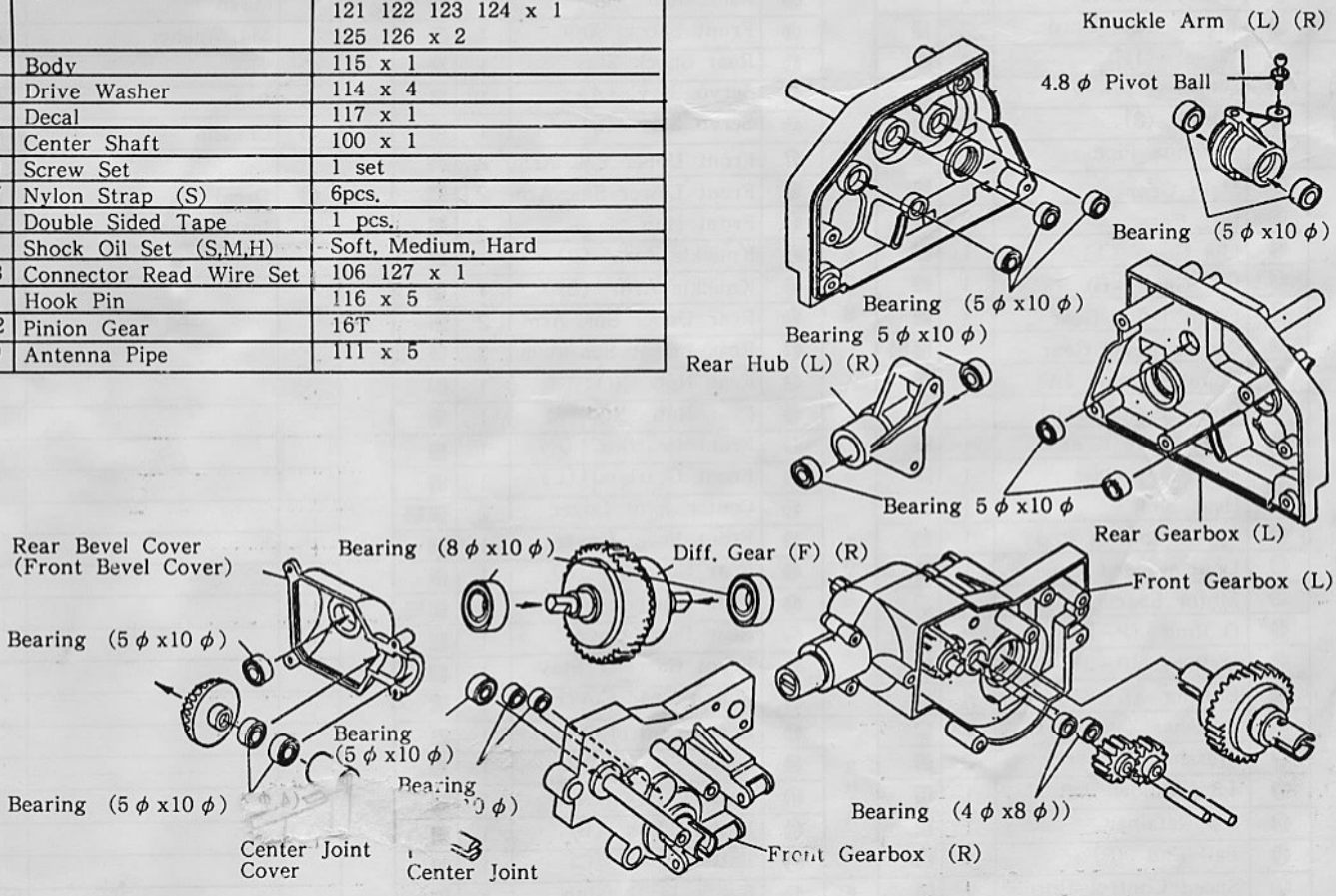
KEY #	NAME	QTY	KEY #	NAME	QTY	KEY #	NAME	QTY
①	Tire	4	㊸	Sus. Shaft (F)	2	㊾	Motor	1
②	Wheel (1)	4	㊹	Rear Hub (R)	1	㊿	Motor Lead Cord	2
③	Wheel (2)	4	㊺	Rear Hub (L)	1	(51)	Pinion Gear (16T)	1
④	Wheel (3)	4	㊻	Sus. Shaft (D)	2	(52)	Pinion Cover	1
⑤	Main Gear	2	㊼	Front Shock Case	2	(53)	Bumper	1
⑥	Bevel Gear (A)	4	㊽	O Ring (P-3)	8	(54)	Double Sided Tape	1
⑦	Bevel Shaft	2	㊾	Shock Collar	8	(55)	Antenna Pipe	1
⑧	Bevel Gear (B)	4	㊿	Shock Cap (A)	4	(56)	Nylon Strap	3
⑨	Diff. Case	2	(51)	Front Shock Shaft	2	(57)	Ball End (S)	1
⑩	Front Gearbox (R)	1	(52)	Shock Piston	4	(58)	Drive Washer	4
⑪	8 φ x14 Bushing	4	(53)	E Ring (E-2.5)	4	(59)	Body	1
⑫	Idle Gear (A)	1	(54)	Shock End	4	(60)	Body Pin	3
⑬	Gear Shaft (A)	2	(55)	Presser Top (A)	2	(61)	Decal	1
⑭	4 φ Plastic Plain Bushing	4	(56)	Shock Cap (B)	4	(62)	hobby Grease	1
⑮	Idle Gear (B)	1	(57)	Shock Oil	1	(63)	4.5 φ Pillow Ball	1
⑯	Front Gearbox (L)	1	(58)	Rear Shock Case	2	(64)	8 φ Retainer	1
⑰	Front Drive Gear	1	(59)	Rear Shock Shaft	2	(65)	Speed Control Horn	1
⑱	Gear Shaft (D)	1	(70)	Presser Top (B)	2	(66)	Speed Control Pivot	1
⑲	5 φ Plastic Plain Bushing	20	(71)	5.8 φ Ball	4	(67)	Speed Control Stud	1
⑳	Center Joint	2	(72)	Spring Spacer (A)	4	(68)	Speed Control Spring	1
㉑	Center Joint Cover	2	(73)	Spring Spacer (B)	4	(69)	Contact Point Holder	2
㉒	Center Bevel Gear	2	(74)	Front Spring	2	(70)	Contact Point	2
㉓	Front Bevel Cover	1	(75)	Rear Spring	2	(71)	7.2V Connector	1
㉔	Joint	4	(76)	Spring Holder	4	(72)	BEC Connector	1
㉕	Rear Gearbox (R)	1	(77)	Rear Guard (R)	1	—	M3 Nut	1
㉖	Counter Gear (A)	1	(78)	Rear Guard (L)	1	—	M3 Nut Gold Color	2
㉗	Gear Shaft (C)	1	(79)	Shock BusheSaver Base	4	(73)	Chassis	1
㉘	Counter Gear	1	(80)		1	(74)	Thickness Guage	1
㉙	Gear Shaft (B)	1	(81)	Saver Shock	1			
㉚	Rear Drive Gear	1	(82)	Saver Arm	1			
㉛	Gear Shaft (E)	1	(83)	Saver Cap	1			
㉜	Rear Gearbox (L)	1	(84)	Servo Stay (A)	1			
㉝	Bevel Collar	2	(85)	Servo Stay (B)	1			
㉞	Rear Bevel Cover	1	(86)	Steering Pin	1			
㉟	Front Shock Stay	1	(87)	Speed Control Base	1			
㊱	Bumper Stay	1	(88)	Servo Stay (C)	1			
㊲	Front Upper Sus. Arm	2	(89)	Speed Control PC Plate	1			
㊳	Sus. Shaft (B)	2	(90)	Speed Control Rod	1			
㊴	O Ring (P-2.3)	16	(91)	Rear Shock Stay	1			
㊵	Front Lower Sus. Arm	2	(92)	Steering Lluck	1			
㊶	Sus. Shaft (E)	2	(93)	Steering Plate	1			
㊷	Front Hub	2	(94)	Ball End	4			
㊸	4.8 φ Pillow Ball	4	(95)	Tie Rod	2			
㊹	Wheel Shaft	4	(96)	Resistor	1			
㊺	Knuckle Arm (R)	1	(97)	Heat Sink Base	1			
㊻	Knuckle Arm (L)	1	(98)	Heat Sink.	1			
㊼	King Pin	4	(99)	Front Gearbox Stay	1			
㊽	Sus. Shaft (C)	6	(100)	Center Shaft	1			
㊾	Swing Shaft	4	(101)	Battery Box (A)	1			
㊿	Sus. Shaft (A)	2	(102)	Battery Box (B)	1			
(51)	Rear Upper Sus. Arm	2	(103)	Battery Box (C)	1			
(52)	Rear Lower Sus. Arm	2	(104)	Motor Spacer	1			

PURCHASING PARTS FOR YOUR KIT

You can purchase replacement and optional parts for your kit. All of the part identified by key numbers are usually not available singularly, but we offer these parts in convenient parts `packs´ which can be purchassed separately. To figure out which parts pack you need, find the key number for that part within the manual. Then consult our parts pack guide, below. When refering to the parts you needs, always use the parts pack number. For instance, if you need a Main Gear (key #5) ask your dealer for Kyosho Parts Pack SB−6 (Diff. Gear Set).

No.	Name	Includes Key No.
SB− 1	Front Gearbox Set	10 16 21 23 99 x 1
SB− 2	Rear Gearbox Set	104 21 25 32 34 108 x 1
SB− 3	Bumper Stay Set	35 91 77 78 109x1
SB− 4	Wheel Set	2 3 4 x 2
SB− 5	Gear Set	12 15 17 26 28 30 x 1 22 x 2
SB− 6	Diff. Gear Set	5 7 9 x 2 6 8 x 4
SB− 7	Front Sus. Arm Set	37 40 x 2
SB− 8	Rear Sus. Arm Set	51 52 x 2
SB− 9	Knuckle Hub Set	42 x 2 45 46 54 55 x 1
SB−10	Chassis	129 87 88 84 86 36 x 143
SB−11	Steering Set	94 x 4 92 93 x 1 95 x 2
SB−12	Servo Saver Set	80 81 82 83 86 x 1
SB−13	Battery Box Set	101 102 103 x 1
SB−14	Tire Set	1 x 2
SB−15	Gear Shaft Set	13 33 x 2 4 18 27 29 31 x 1
SB−16	Sus. Shaft Set	48 x 6 39 x 16 38 41 50 53 56 x 2
SB−17	Front Shock Set	58 59 x 4 57 60 61 62 63 64 65 66 71 72 73 74 76 79 x 2
SB−18	Rear Shock Set	58 59 x 4 60 62 63 64 66 68 69 70 71 72 73 75 76 79 x 2
SB−19	Bushing Set	11 14 x 4 19 x 20
SB−20	Joint	24 x 2
SB−21	Center Joint	20 x 2
SB−22	Wheel Shaft	44 x 2
SB−23	King Pin	47 x 4
SB−24	Swing Shaft	49 x 2
SB−25	Speed Control Set	88 90 96 97 98 119 128 120 121 122 123 124 x 1 125 126 x 2
SB−26	Body	115 x 1
SB−27	Drive Washer	114 x 4
SB−28	Decal	117 x 1
SB−29	Center Shaft	100 x 1
SB−30	Screw Set	1 set
EF−37	Nylon Strap (S)	6pcs.
1840	Double Sided Tape	1 pcs.
1951	Shock Oil Set (S,M,H)	Soft, Medium, Hard
PG−43	Connector Read Wire Set	106 127 x 1
1889	Hook Pin	116 x 5
OT−52	Pinion Gear	16T
SD−79	Antenna Pipe	111 x 5

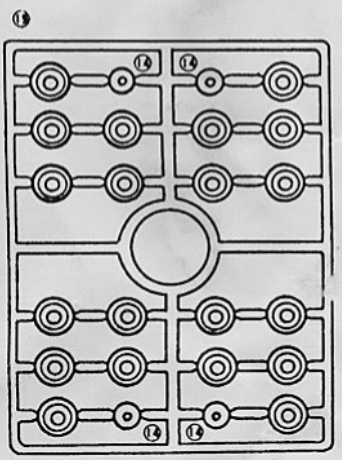
	Optional Parts	
1911	8 φ x14 Bearing	2pcs. Replacement for Bushing 11
1901	5 φ x10 Bearing	2 pcs. Replacement for Bushing 19
1903	4 φ x8 Bearing	2 pcs. Replacement for Bushing 14
OT−50	Pinion Gear 13T	
OT−51	Pinion Gear 14T	
OT−24	Pinion Gear 15T	
OT−53	Pinion Gear 17T	
W−5021	Low profile Wheel	Silver
W−5001	Pressure Oil Shock (S)	High performance, Large 12 φ shock
W−5002	Pressure Oil Shock (L)	High performance, large 12 φ shock
W−5003	Adjustable Shock (S)	Adjustable damping action
W−5004	Adjustable Shock (L)	Adjustable damping action
W−5031	Low Profile Tire, Allround type	For Hard Truck 2pcs.
W−5032	Low Profile Tire High Grip type	For Soft Truck 2 pcs.
W−5061	Universal Swing Shaft	Wheel Shaft (2pcs.) Swing Shaft Set
1863	Sponser Sticker	1 pc.

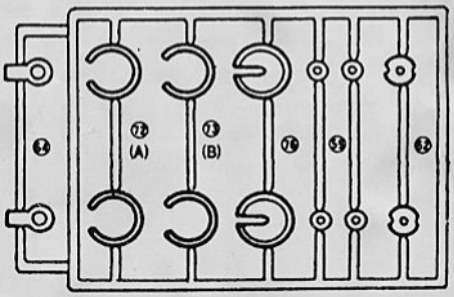


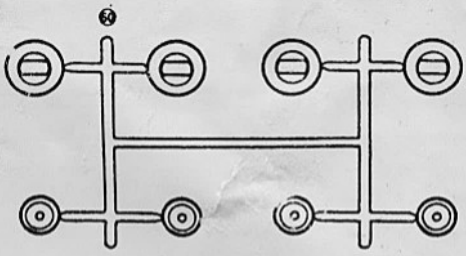
"SHADOW 4WD" BAGGED PARTS LIST

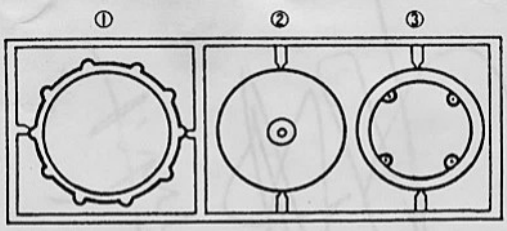
Bag #	Key #	Name	Qty	Step
BLISTER	⑱	Motor	1	3
	㊾	Swing Shaft	4	15
	㊹	Wheel Shaft	4	14
	㉔	Joint	4	5
	⑥	Bevel Gear (A)	4	11
	⑧	Bevel Gear (B)	4	9
	⑦	Bevel Shaft	2	11
	⑬	Gear Shaft (A)	2	11
	㉙	Gear Shaft (B)	1	7
	㉗	Gear Shaft (C)	1	7
	⑱	Gear Shaft (D)	1	11
	㉛	Gear Shaft (E)	1	7
	㉚	Center Joint	2	11 12
	㊴	Speed control PC Board	1	8
	㊸	4.8 φ Pillow Ball	4	13 6
	㉑	5.8 φ Ball	4	12
	⑩	Pinion Gear (16T)	1	7
	⑭	Center Shaft	1	8
	㊻	Resistor	1	8
	㉛	Front Shock Shaft	2	3
	㊾	Rear shock Shaft	2	4
	㉔	Front Spring	2	4
	㉕	Rear Spring	2	3
	㊵	Sus. Shaft (A)	2	11
	㊽	Sus. Shaft (B)	2	11
	㊶	Sus. Shaft (C)	6	11 12
	㊺	Sus. Shaft (D)	2	11
	㊶	Sus. Shaft (E)	2	11
	㊸	Sus. Shaft (F)	2	11
	㊼	Shock Oil	1	1
	⑪	hobby Greases	1	
	⑯	Motor Lead Cord	2	7
SHI-1	②	Wheel (1)	4	3
	③	Wheel (2)	4	3
	④	Wheel (3)	4	3
	⑪	Antenna Pipe	1	3
SHI-2	⑤	Main Gear	2	11
	⑨	Diff. Case	2	11
	⑫	Idle Gear (A)	1	11
	⑮	Idle Gear (B)	1	11
	⑰	Front Drive Gear	1	10
	㉒	Center Bevel Gear	2	10 20
	㉖	Counter Gear (A)	1	7
	㉘	Counter Gear (B)	1	7
	㉚	Rear Drive Gear	1	7
	㊼	Heat Sink Base	1	8
	㊽	Heat Sink	1	8
	㊿	Speed Control Rod	1	8
	⑲	Double Sided Tape	1	8
	⑭	Motor Spacer	1	7
	㊴	O Ring (P-2.3)	16	14 15
	㊽	O Ring (P-3)	8	3
	㊸	E Ring (E-2.5)	4	3
	㊺	Pressher Top (A)	2	3
	㊿	Pressher Top (B)	2	3
	⑬	4.5 φ Pillow Ball	1	8
	㉘	8 φ Retainer	1	8
	⑬	Ball End (S)	1	8
	㉑	Speed Control Horn	1	8
	㉒	Speed Control Pivot	1	8
SHI-2	㉓	Speed Control Stud	1	8
	㉔	Speed Control Spring	1	8
	㉕	Contact point Holder	2	8
	㉖	Contact Point	2	8
	㉗	7.2V connector	1	8
	–	M3 Nut	1	8
	–	M3 Nut (Gold Color)	2	8
SHI-3	㉚	Saver Base	1	5
	㉛	Saver Shock	1	5
	㉜	Saver Arm	1	5
	㉝	Saver Cap	1	5
	㉔	4 φ Plastic Plain Bushing	5	4
	㉕	5 φ Plastic Plain Bushing	0	
	㊼	Front Shock Case	2	3
	㊾	Shock Collar	8	3
	㊿	Shock Cap (A)	4	3
	㊷	Shock Piston	4	3
	㊹	Shock End	4	3
	㊻	Shock Cap (B)	4	3
	㊽	Rear Shock Case	2	3
	㊷	Spring Spacer (A)	4	3
	㊸	Spring Spacer (B)	4	3
	㊻	Spring Holder	4	3
SHI-4	㊴	Thickness Guage	1	2
	㊷	Steering Luck	1	6
	㊸	Steering Plate	1	6
	㊹	Ball End	4	6
	㊻	Bumper Stay	1	8
	㊽	Bumper	1	11
	㊼	Rear Guard (R)	1	7
	㊽	Rear Guard (L)	1	7
	㊵	Front Shock Stay	1	7
	㊶	Rear Shock Stay	1	7
	㊹	Servo Stay (A)	1	5
	㊺	Servo Stay (B)	1	5
SHI-5	㊼	Front Upper Sus. Arm	2	15
	㊿	Front Lower Sus. Arm	2	14
	㊷	Front Hub	2	13
	㊺	Knuckle Arm (R)	1	13
	㊻	Knuckle Arm (L)	1	13
	㊶	Rear Upper Sus. Arm	2	14
	㊷	Rear Lower Sus. Arm	2	14
	㊹	Rear Hub (R)	1	13
	㊺	Rear Hub (L)	1	13
SHI-6	⑩	Front GearBox (R)	1	10
	⑯	Front Gearbox (L)	1	10
	㉑	Center Joint Cover	2	10 20
	㉓	Front Bevel Cover	1	10
	㉕	Rear Gearbox (R)	1	10
	㉜	Rear Gearbox (L)	1	10 22
	㉔	Rear Bevel Cover	1	20
	㉙	Front Gearbox Stay	1	10
	⑭	Pinion Gear Cover	1	7
SHI-7	㉗	Speed control Base	1	7
	㉘	Servo Stay (C)	1	7
	⑩	Battery Box (A)	1	8
	⑫	Battery Box (B)	1	8
	⑬	Battery Box (C)	1	8
SHI-8	⑪	8 φ x 14 Bushing	4	2
	㉝	Bevel Collar	2	10 8

Bag #	Key #	Parts	Qty	Step
SHI-8	㉙	Shock Bush	4	12 20
	㊻	Steering Pin	1	6
	㊼	King Pin	4	10
	⑪	Body Pin	3	2
	㊴	Tie Rod	2	6
	⑭	Drive Washer	4	8
	⑫	Nylon Strap	3	1
SHI-9		M2x5 TP Screw	2	
		M2x10 TP Screw	24	
		M2,6x10 TP Screw	8	
		M3x10 TP Screw	11	
		M3x8 TP Screw		
		M2x6 Round Head		
		M3x12 〃		
		M3x19.5 〃	1	
		M3x22 〃		
		M3x26 〃		
		M3x30 〃		
		M3x35 〃	1	
		M3x45 〃	1	
		M3x3 Set Screw	1	
		M4x4 〃	4	
		1.5mm Hex Key	1	
		2.0mm Hex Kye	1	
		2mm Nut	1	
		3mm Nut	3	
		3mm Nylon Nut	5	
		4mm Nylon Nut	4	
		M3x6 O.D. Washer	4	
		M3x8 〃	24	
		M4 Washer	4	
	①	Tire	4	
	⑮	Body	1	
	⑱	Chassis	1	
	⑰	Decal	1	
	–	Instruction Manual	1	
	–		–	




(A)
(B)

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