RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY

OFF-ROAD RACER TURBO SCORPION

★NEW SPECIALLY DESIGNED FRONT TREAD PATTERN
★NEW SUPER LIGHT WHEELS FOR TOP HANDLING IN THE ROUGH
★SPECIAL NEW FRONT SUSPENSION GEOMETRY FOR SUPER DIRECTIONAL STABILITY
★NEW OVERSIZE BALL JOINTS IN FRONT SUSPENSION FOR INCREASED STRENGTH
★NEW OVERSIZE 10mm OIL-FILLED SHOCK ABSORBERS FOR EVEN BETTER ROADHOLDING
★WATER/DUST RESISTANT RADIO AND BATTERY BOX
★NEW SPEED CONTROLLER GIVES THREE FORWARD SPEEDS PLUS REVERSE
★NEW SPORTY BODY STYLE: OPEN ENGINE/CONTOURED BODY
★NEW SPIKE REAR TIRES FOR BETTER TRACTION
★RUGGED DIECAST ALUMINUM SUSPENSION PARTS
★NEW HEATSINK-COOLED SPEED CONTROLLER RESISTOR
★DECORATIVE AND FUNCTIONAL WING
★POWERFUL MABUCHI RS-540S MOTOR(INCLUDED)

1:10 SCALE

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

PAT. P.

COX

COX HOBBIES, INC.
1525 E. Warner Ave., Santa Ana, CA 92705
Telephone (714) 546-2551 Telex 681-459

NO. 9082

RADIO SYSTEM

*Transmitter ..... This is the part of the system that you hold in your hands to control the model. Information is sent to the receiver and servos by radio waves.

*Receiver ..... Receives the radio signals from the transmitter and sends them to the appropriate servo.

*Servos ..... Can be thought of as the "muscle' of the system. They actually move the controls of the model. The receiver tells them which direction to move and how much.

*Antenna ..... The transmitter antenna broadcasts the radio signal. The receiver antenna (which is no more than a small wire tuned to a precise length) picks up the signals so that the receiver can decode them.

*Trim Levers ..... Adjust the neutral position of the servos from the transmitter. Trim Levers provide fine tuning of the steering and speed control.

*Battery Meter ... Allows you to see the condition of your transmitter batteries.

*Servo Horn ..... A small arm or wheel on a servo that transfers the movement of the servo.

BEFORE ASSEMBLY

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

*The bolts and nuts used in the assembly steps are illustrated actual size. Bolts nuts and screw sized are metric. For your reference 1mm equals approximately .039 inches.

*Apply "Screw Locking compound" to any point indicated with SW. LOCK mark.

1 INSTALLATION OF MOTOR COVER

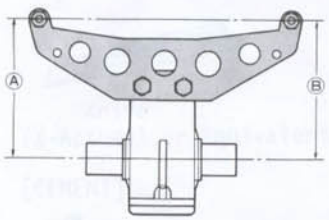
[Small Parts Needed]

M3 x 8 Allen Screw (2)

M3 x 8 Screw (2)

M3 Nut (2)

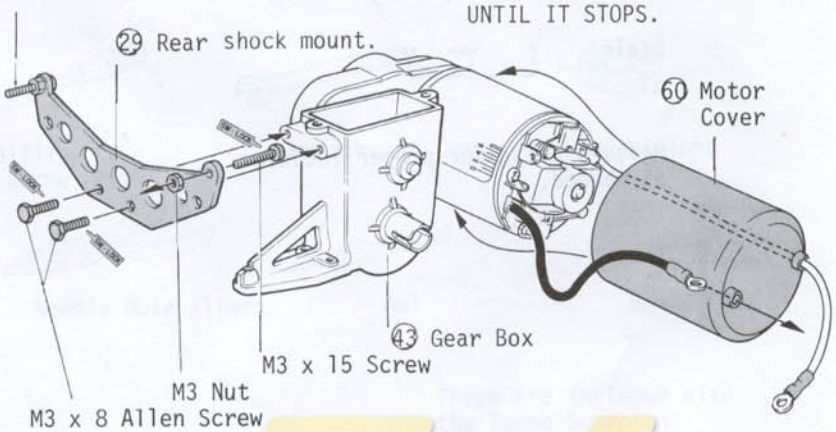
Install shock mount so that A and B are equal.



1 INSTALLATION OF MOTOR COVER

The rear shock will be mounted here.

NOTE:
SEAL THE MOTOR WITH THE MOTOR COVER ALL THE WAY UNTIL IT STOPS.



2 INSTALLATION OF FRONT SHOCK TOWERS

[Small Parts Needed]

M2.6 x 12 Screw(4)

M3 x 15 Screw (2)

M2.6 Nut (4)

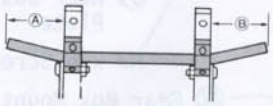
M3 Nut (2)

3 INSTALLATION OF ARM SHAFT

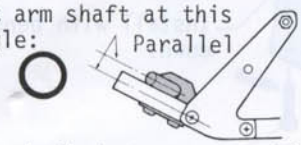
[Small Parts Needed]

M3 x 15 Screw(4)

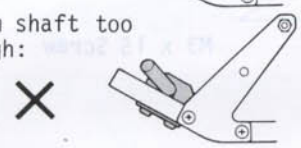
Make sure A and B are the same length



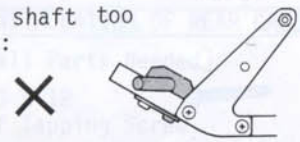
Set arm shaft at this angle:



Arm shaft too high:



Arm shaft too low:



4 INSTALLATION OF SERVO SAVER

[Small Parts Needed]

M2 x 10 Screw (1)

M4 x 30 Screw (1)

M2 Nut (1)

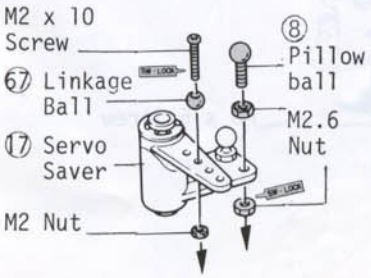
M2.6 Nut (4)

M4 Nut (2)

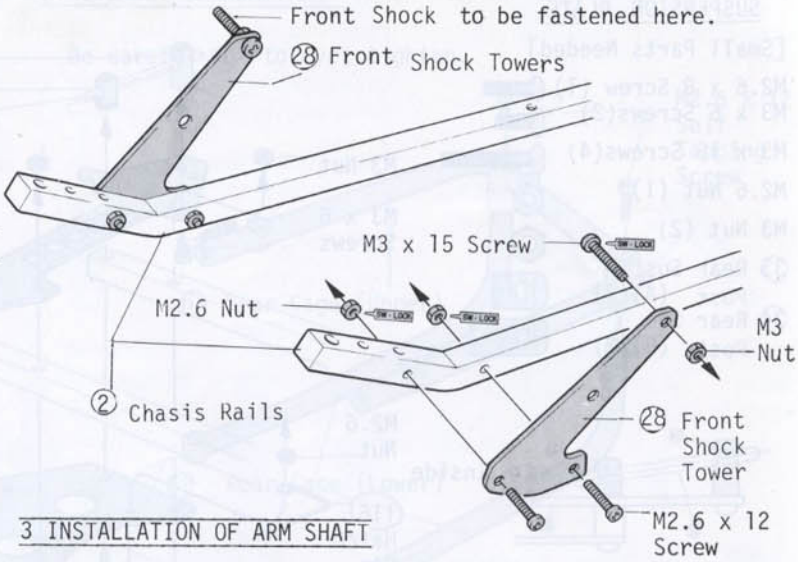
⑧ Pillow Ball (Black) (2)

67 Linkage Ball(1)

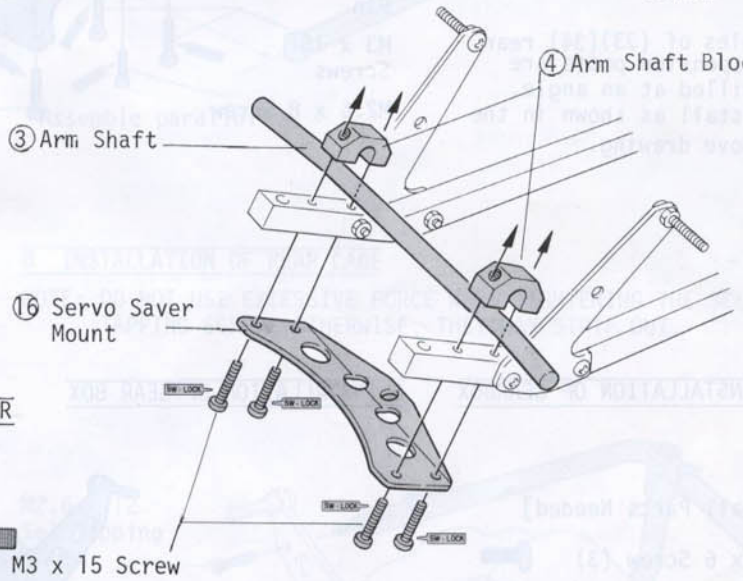
[Assembly of Servo Saver]



2 INSTALLATION OF FRONT SHOCK TOWERS

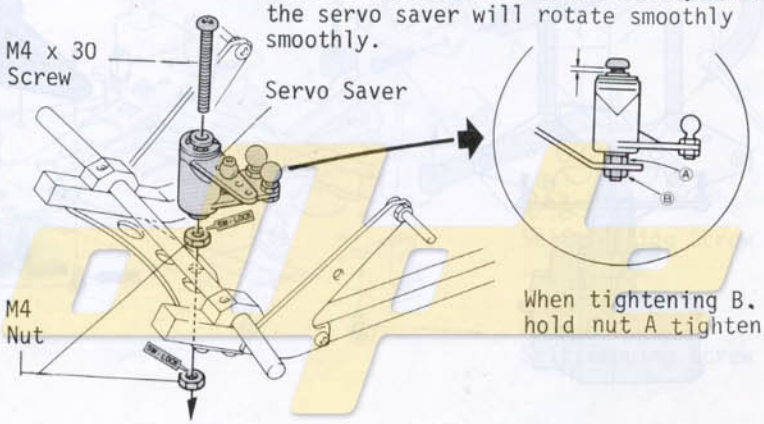


3 INSTALLATION OF ARM SHAFT



4 INSTALLATION OF SERVO SAVER

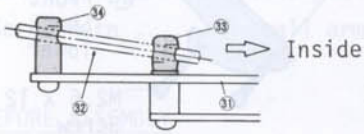
Leave a clearance of about 0.5mm, so that the servo saver will rotate smoothly smoothly.



5 INSTALLATION OF REAR SUSPENSION PLATE

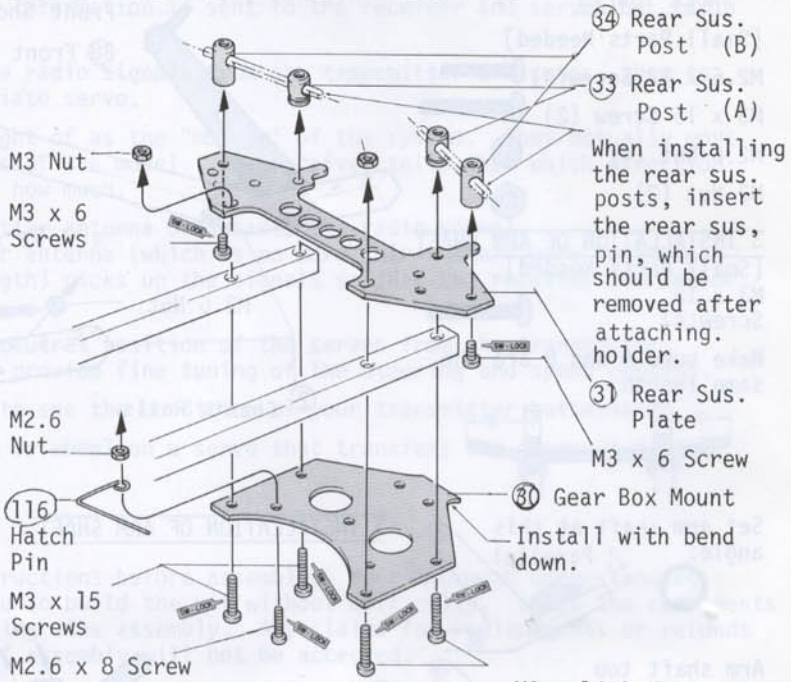
[Small Parts Needed]

M2.6 x 8 Screw (1)
M3 x 6 Screws(2)
M3 x 15 Screws(4)
M2.6 Nut (1)
M3 Nut (2)
㉝ Rear Sus. Post (A)(2)
㉞ Rear Sus. Post (B)(2)



Holes of (33)(34) rear suspension posts are drilled at an angle. Install as shown in the above drawing.

5 INSTALLATION OF REAR SUSPENSION PLATE

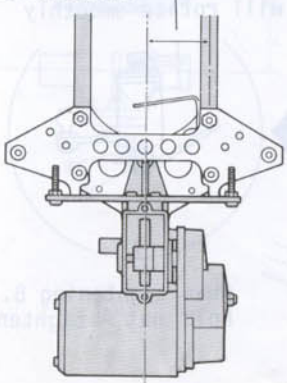


6 INSTALLATION OF GEARBOX

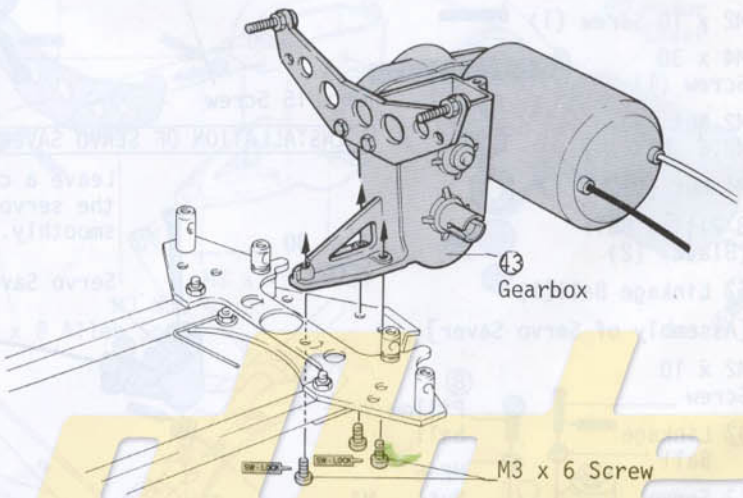
[Small Parts Needed]

3ø x 6 Screw (3)

Make sure the centerline of the gearbox is parallel with the chassis.



6 INSTALLATION OF GEAR BOX



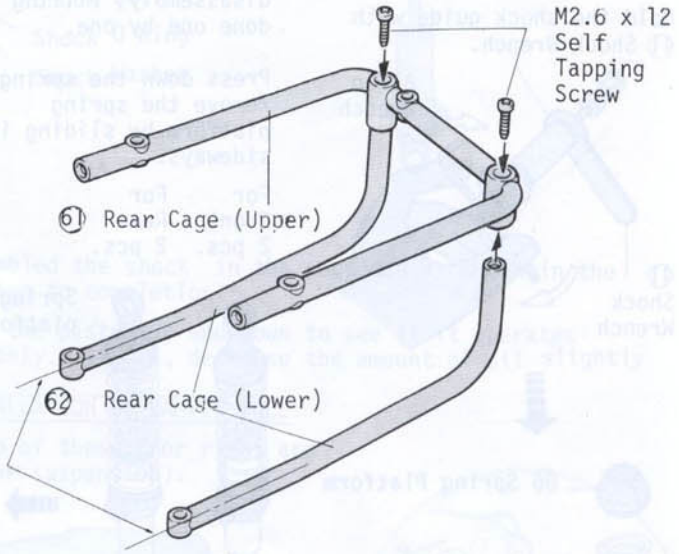
7 ASSEMBLY OF REAR CAGE

[Small Parts Needed]

M2.6 x 12
Self Tapping Screw
(2)

7 ASSEMBLY OF REAR CAGE

Be careful not to over tighten.



Assemble parallel.

8 INSTALLATION OF REAR CAGE

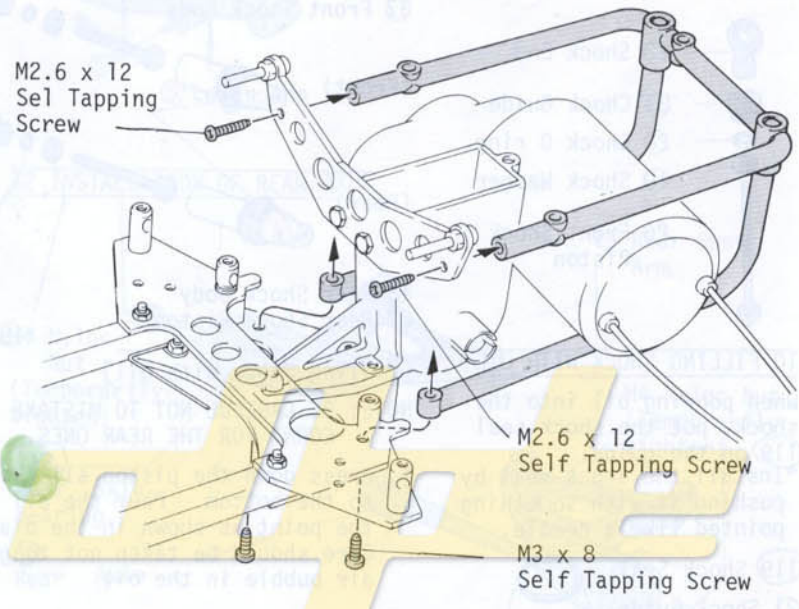
[Small Parts Needed]

M2.6 x 12
Self Tapping Screw
(2)

M3 x 8
Self Tapping Screw
(2)

8 INSTALLATION OF REAR CAGE

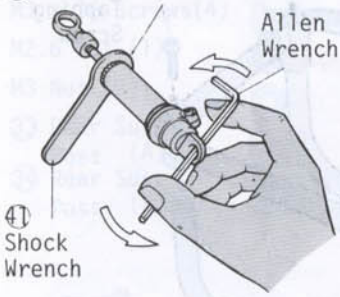
NOTE: DO NOT USE EXCESSIVE FORCE WHEN TIGHTENING THE SELF TAPPING SCREW, OTHERWISE, THEY MAY STRIP OUT.

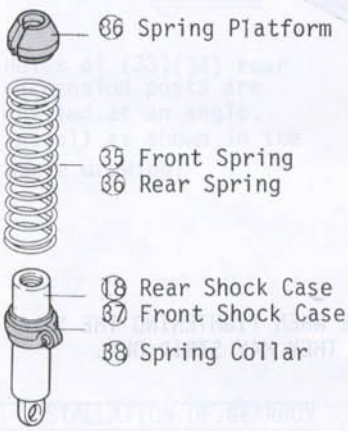


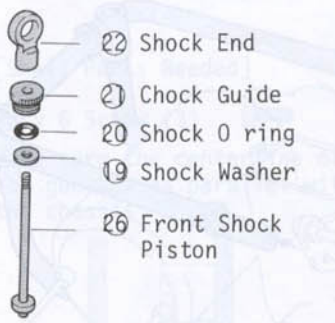
9 SHOCK ABSORBERS

Detach the shock and disassemble it a shown in the drawings.

Hold the shock guide with (41) Shock Wrench.



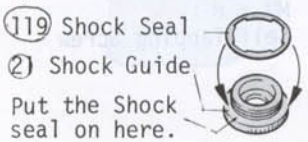




TO FILLING SHOCK WITH OIL

When pouring oil into the shock, put the shock seal (119) on the guide.

*Install the shock seal by pushing it with something pointed like a needle.



9 SHOCK ABSORBERS

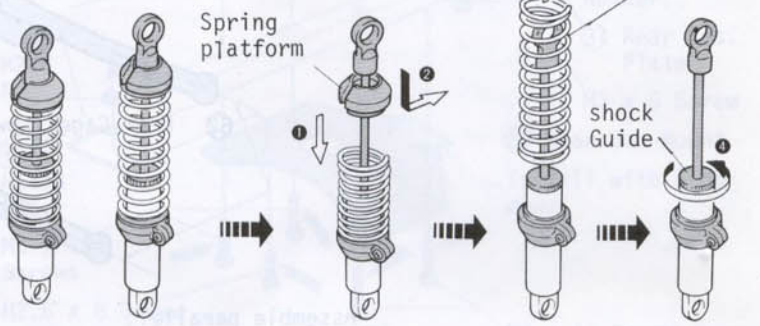
*The shocks are factory assembled, but disassembly is required when filling oil into them. Since different parts are employed for the front and rear shocks, the disassembly, filling with oil, and reassembly should be done one by one.

Press down the spring and remove the spring piatform by sliding it sideways.

For Front 2 pcs. For Rear 2 pcs.

Pull off the spring.

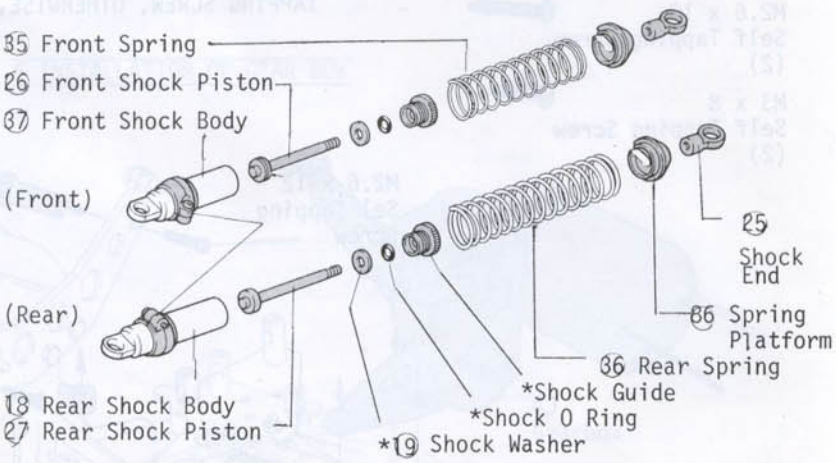
Remove the shock guide by unscrewing.



TO FILLING SHOCK WITH OIL

[Exploded View of the Shock]

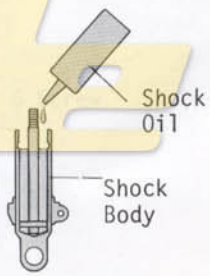
*All the parts with the * mark are in common use for the front and rear portions.



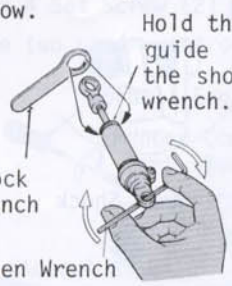
[Filling Shock with Oil]

NOTE: BE CAREFUL NOT TO MISTAKE THE FORNT FOR THE REAR ONES.

1. Press down the piston all the away to the bottom. Pour the oil to the point as shown in the diagram. Care should be taken not to get an air bubble in the oil

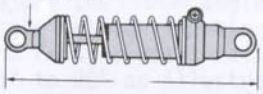


Put some oil into the shock as shown in the right hand drawings and tighten the stopper firmly as illustrated below.



After having poured the oil into the shock and assembled the whole as it was before, measure the length of the front and rear shock to make them in the same length.

Adjust the length by screwing the shock end out or in.



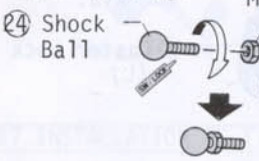
11 INSTALLATION OF SHOCK BALL

[Small Parts Needed]

24 Shock Ball (4)

M3 Nut (2)

Screw in the M3 nut on the shock ball 24.



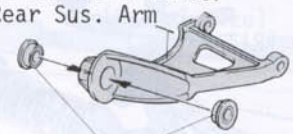
12 INSTALLATION OF REAR AXLE

[Samll Parts Needed]

M4 Nyloc Nut (2)

[Option Parts]
If you change the rear wheel axle bearings 112 for the optional part, MS-26 6mm Ball Bearins, the model would run more faster

15 Rear Sus. Arm



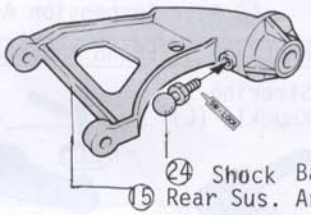
2.

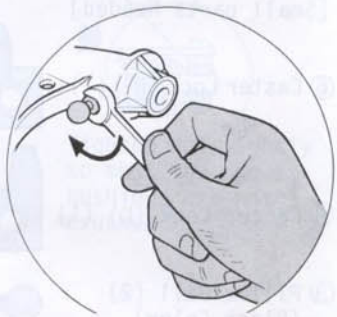
3.

2. Assembled the shock in the sequence as shown in the drawing to completion.
3. Move the piston up and down to see if it operates smoothly. If not, decrease the amount of oil slightly

11 INSTALLATION OF DAMPER BALL

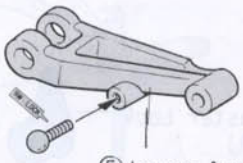
Make two of these (for right and left rear suspension).



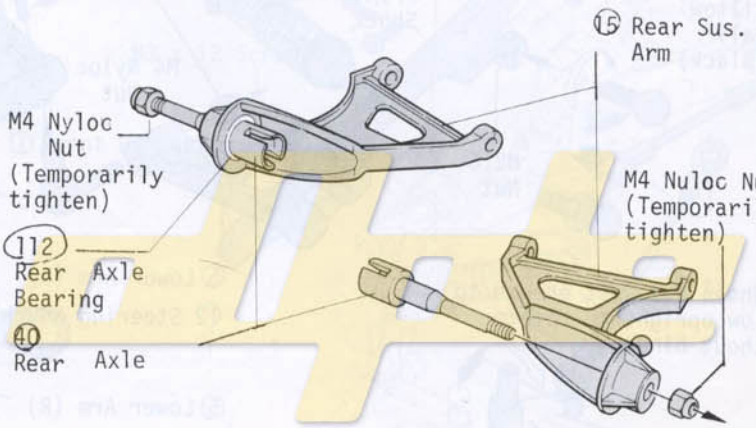


Tighten the 3ø nut with a wrench or pliers to lock the shock ball.

Make two of these (for right and left front suspension.)



12 INSTALLATION OF REAR AXLE

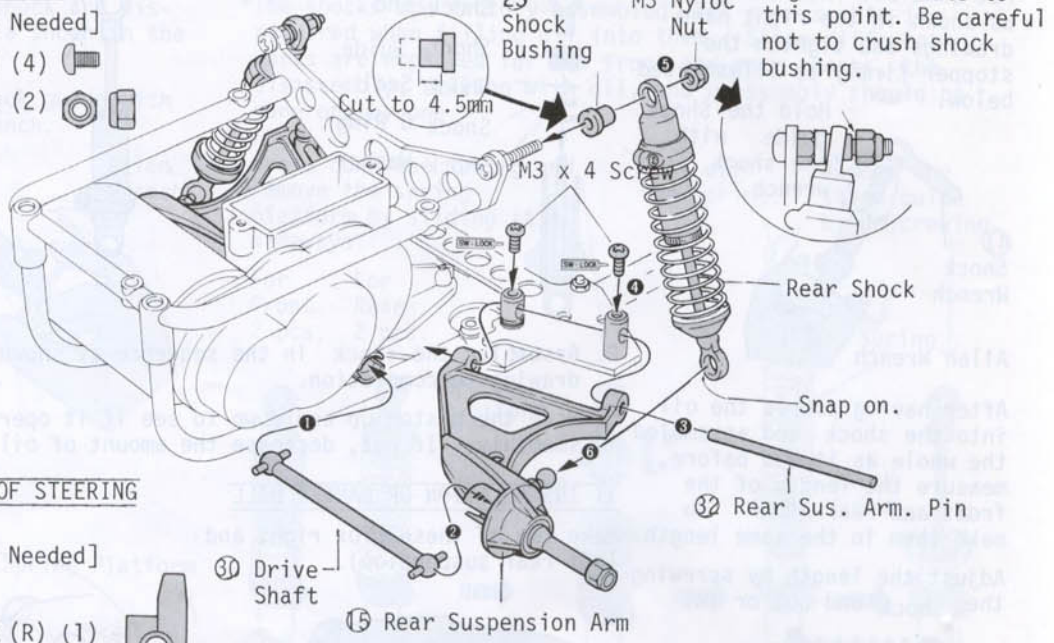


13 INSTALLATION OF REAR SUSPENSION ARM

[Small Parts Needed]

M3 x 4 Screw (4)

M3 Nyloc Nut (2)



14 ASSEMBLY OF STEERING KNUCKLE

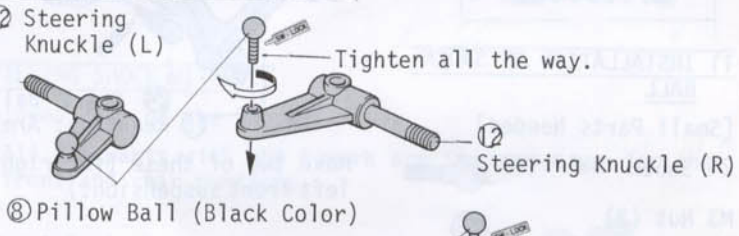
[Small parts Needed]

⑥ Caster Lock (R) (1)

⑥ Caster Lock (L) (1)

③ Pillow Ball (2) (Black Color)

14 ASSEMBLY OF STEERING KNUCKLE



15 INSTALLATION OF DAMPER BALL

[Small Parts Needed]

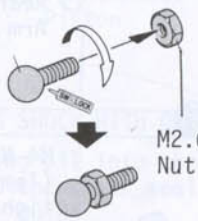
M2.6 Nut (2)

M3 Nyloc Nut (2)

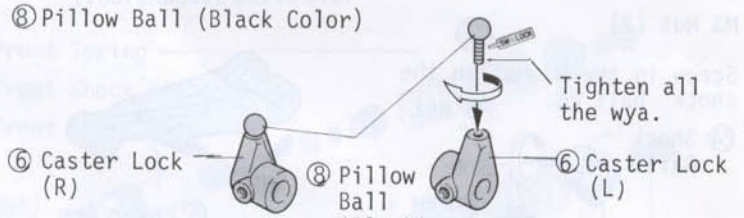
⑧ Pillow Ball (2) (Black Color)

Thread the nut onto the pillow Ball.

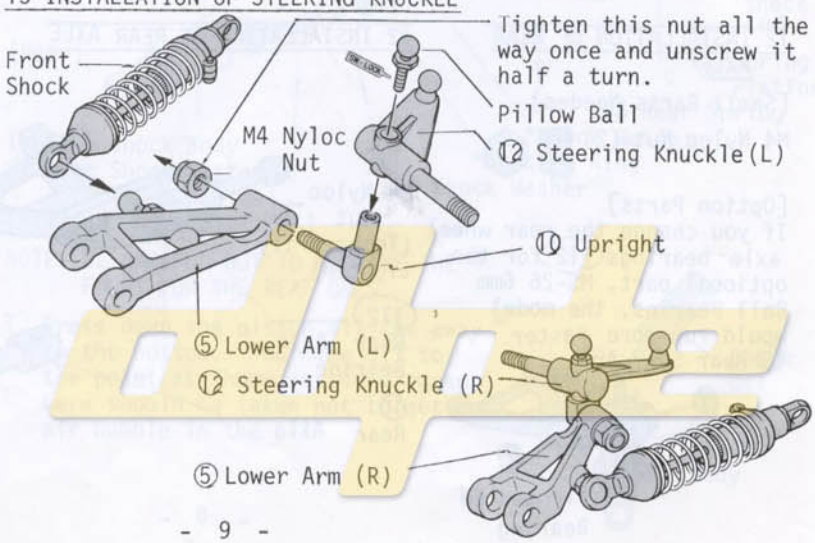
⑧ Pillow Ball (Black)



Tighten nut just enough to allow upright to rotate without binding.



15 INSTALLATION OF STEERING KNUCKLE



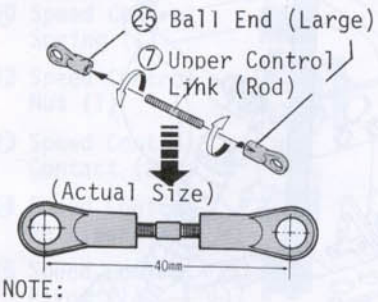
16 INSTALLATION OF LOWER ARM

[Small Parts Needed]

M3 Nyloc Nut (2)

M4 x 4 Set Screw (2)

Make two upper control Links.

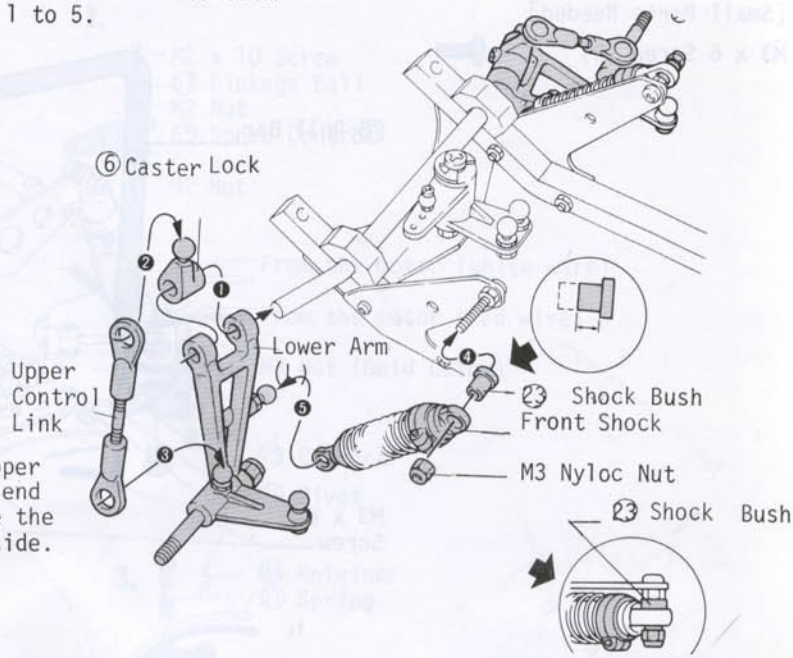


NOTE:

Screw-in thread part of the upper control link (7) into the ballend (L)(25). The length should be the same for both right and left side.

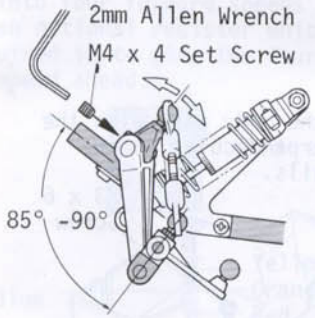
16 INSTALLATION OF LOWER ARM

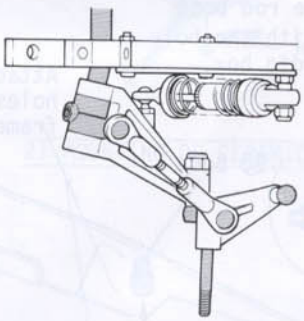
Install in order from 1 to 5.



Tighten nut lightly so that the shock bushings are not crushed.

Adjust the caster angle so the angle between the king pin and front chassis rail is 85° to 90° as illustrated.





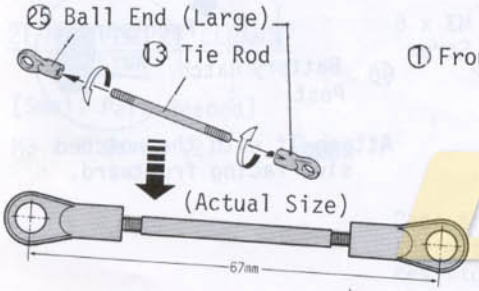
17 INSTALLATION OF TIE ROD

[Small Parts Needed]

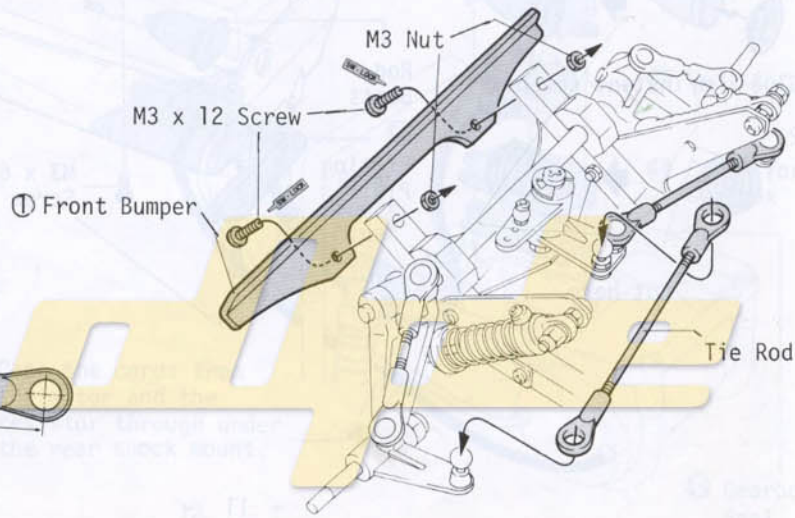
M3 x 12 Screw (2)

M3 Nut (2)

Make two tie rods.



17 INSTALLATION OF TIE ROD

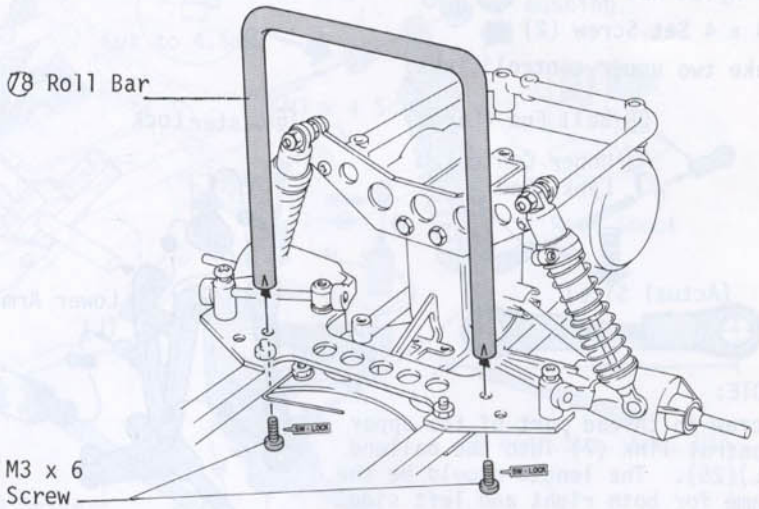


18 INSTALLATION OF ROLL BAR

[Small Parts Needed]

M3 x 6 Screw (2)

18 INSTALLATION OF ROLL BAR



19 INSTALLATION OF ROD BOOTS

[Small Parts Needed]

M3 x 6 Screw (2)

M3 x 8
Self Tapping Screw (2)

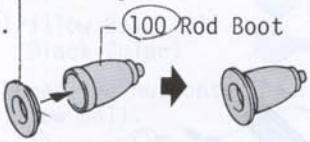
96 Battery Hatch Post (1)

98 Body Post (1)

[Assembly of Rod Boot]

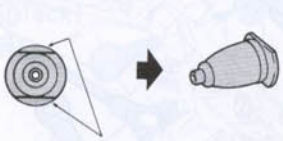
99 Rod Ring

1.



Glue with instant cement.

2.

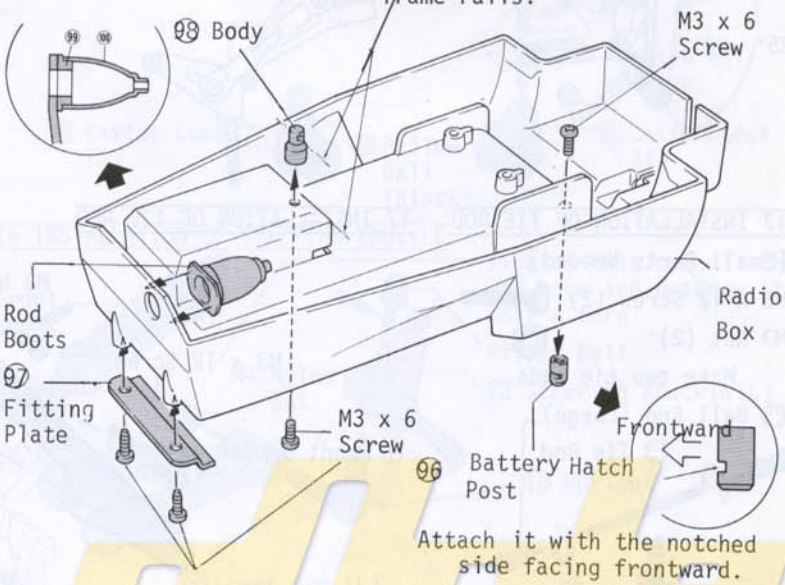


Cut here.

19 INSTALLATION OF ROD BOOTS

Cement the rod boot aligned with the hole on the Radio box.

Attach the body post with the holes perpendicular to the frame rails.



Attach it with the notched side facing frontward.

20 INSTALLATION OF SPEED CONTROL

M2 x 10 Screw (1)

M2.6 x 5 Screw (1)

67 Linkage Ball (1)

90 Speed Control Spring (1)

92 Speed Control Nut (1)

93 Speed Control Contact (2)

94 Speed Control Retainer (1)

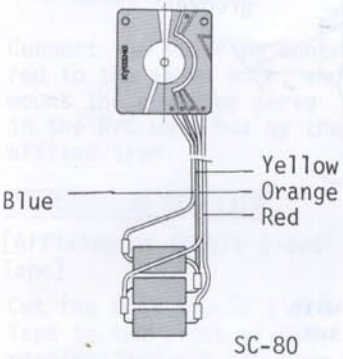
95 Speed Control Pivot (1)

M3 Nut (Gold Color) (2)

M2 Nut (2)

[How to convert into 4 speed]

This model is designed to go three speeds forward and one backward. You can modify it into four forward speeds with an optional resister which is wired in to give the fourth speed ahead.



SC-80

SOLDER THE OPTIONAL RESISTOR (5W-0.15 ohm x 3) as shown in the illustration.

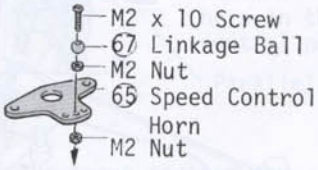
21 MOUNTING OF CERAMIC RESISTOR

[Small Part Needed]

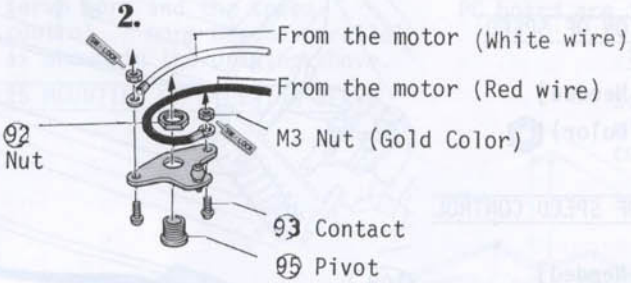
M3 x 8 Screw (2)

20 INSTALLATION OF SPEED CONTROL

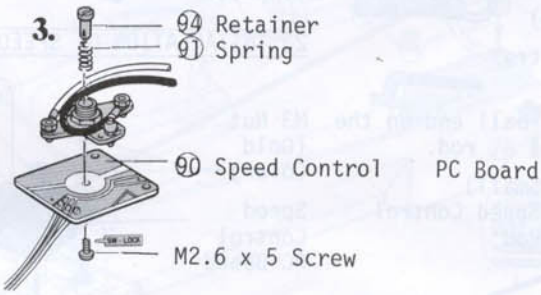
1.



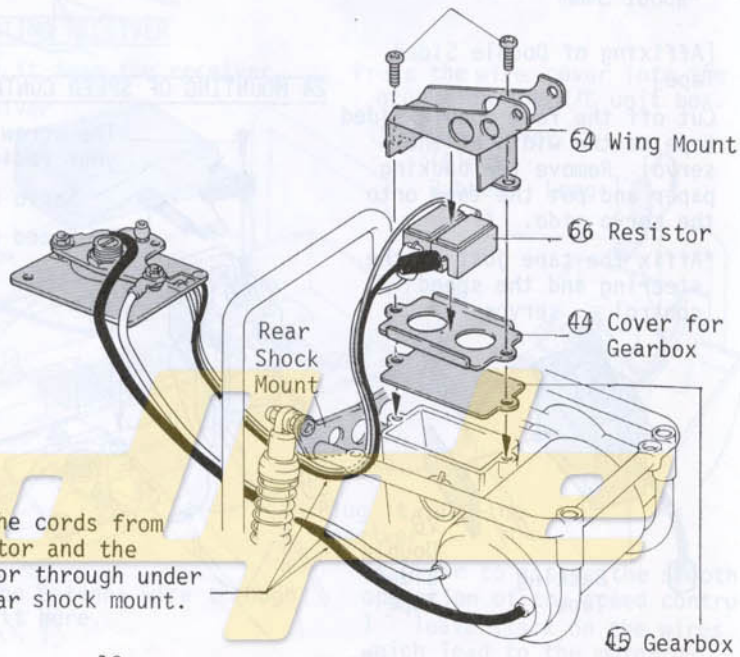
2.



3.



21 MOUNTING OF CERAMIC RESISTOR



Pass the cords from the motor and the resistor through under the rear shock mount.

22 MOUNTING OF RADIO BOX

[Small Parts Needed]

M2.6 x 8 Screw (2)

M3 x 15 Screw (Gold Color) (2)

M3 Nut (Gold Color) (2)

23 INSTALLATION OF SPEED CONTROLLER

[Small Parts Needed]

M3 Nut (Gold Color) (2)

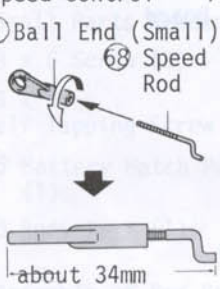
24 MOUNTING OF SPEED CONTROL SERVO

[Small Parts Needed]

⑨ Ball End (Small) (1)

68 Speed Control Rod (1)

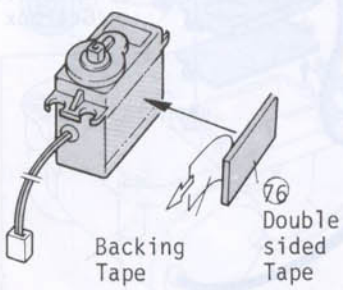
Screw in the ball end on the speed control rod.



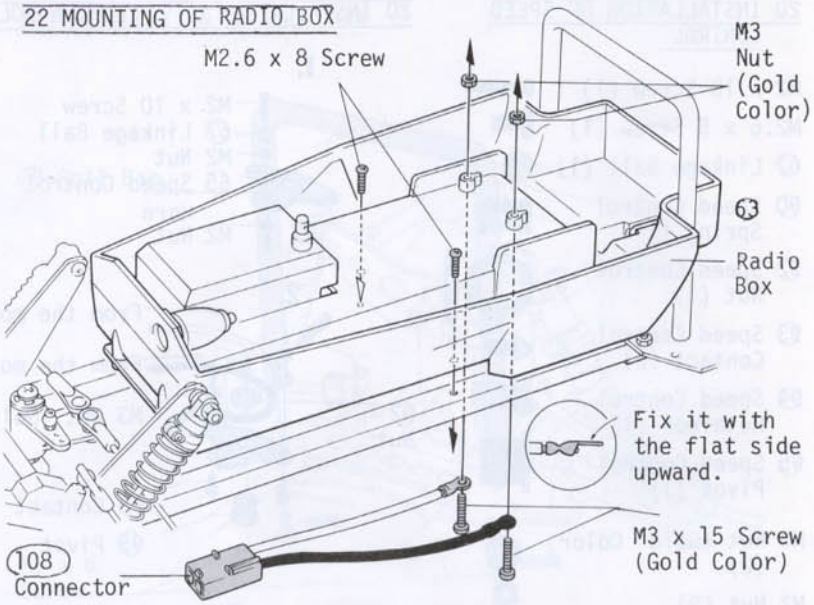
[Affixing of Double Sided Tape]

Cut off the foam double sided tape to the width of the servo. Remove the backing paper and put the tape onto the servo side.

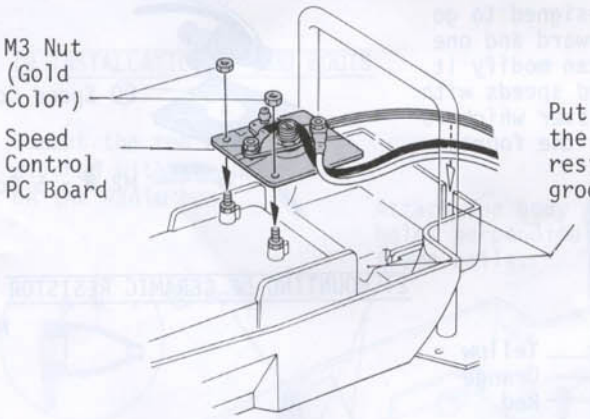
*Affix the tape just on the steering and the speed control servos.



22 MOUNTING OF RADIO BOX

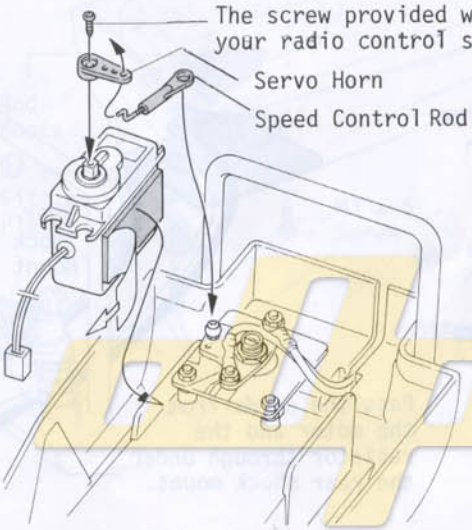


23 INSTALLATION OF SPEED CONTROL



Put the cords from the motor and the resistor into the groove.

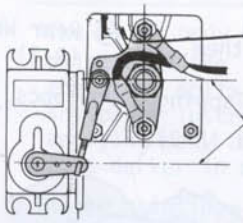
24 MOUNTING OF SPEED CONTROL SERVO



NOTE:

EXAMINE THE DRAWING TO LEARN ABOUT THE MOUNTING POSITION, THEM FIX THE SPEED CONTROL SERVO BY THE AFFIXED FOAM RUBBER TAPE IN THE R/C UNIT BOX.

[Top View] Neutral



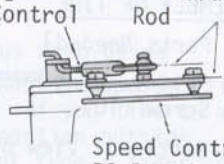
Keep the speed control servo horn in the neutral position.

Parallel

Adjust the servo so that the servo horn and the speed control horn become parallel as shown in the drawing above.

[Side View] 68 Speed Control Rod

Parallel



Speed Control PC Board

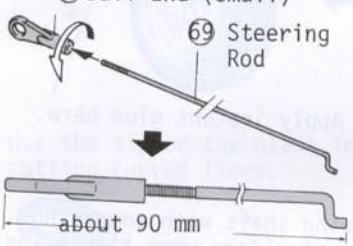
Adjust the height of the servo so that the speed control rod and the PC board are in parallel.

25 MOUNTING OF STEERING SERVO

[Small Parts Needed]

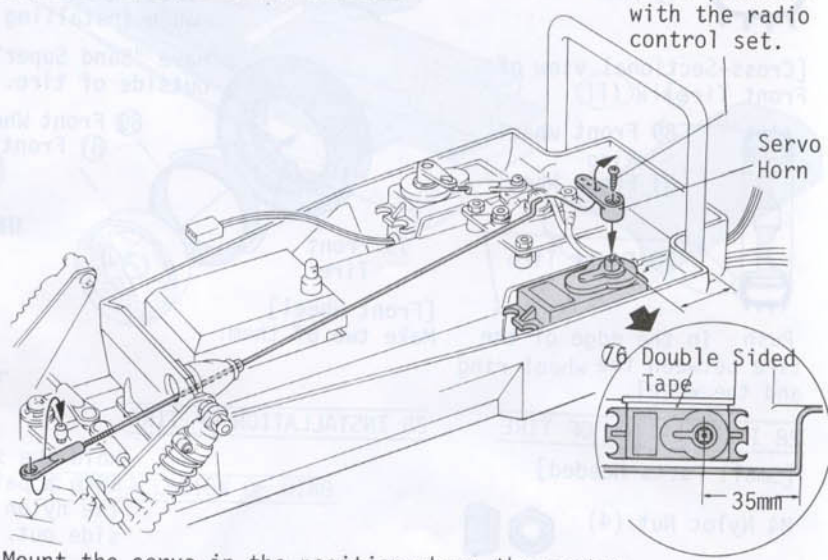
⑨ Ball End (Small) (1)

Screw ball end onto the Steering Rod.



Connect the steering control rod to the servo horn, and mount the steering servo in the R/C unit box by the affixed tape.

25 MOUNTING OF STEERING SERVO

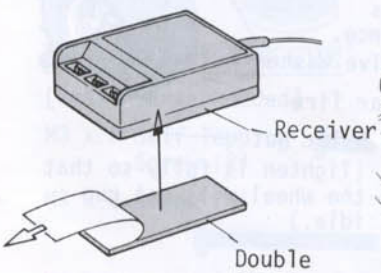


Mount the servo in the position where the center of the servo horn is away from the wall of the R/C unit box for 25 mm as shown in the drawing.

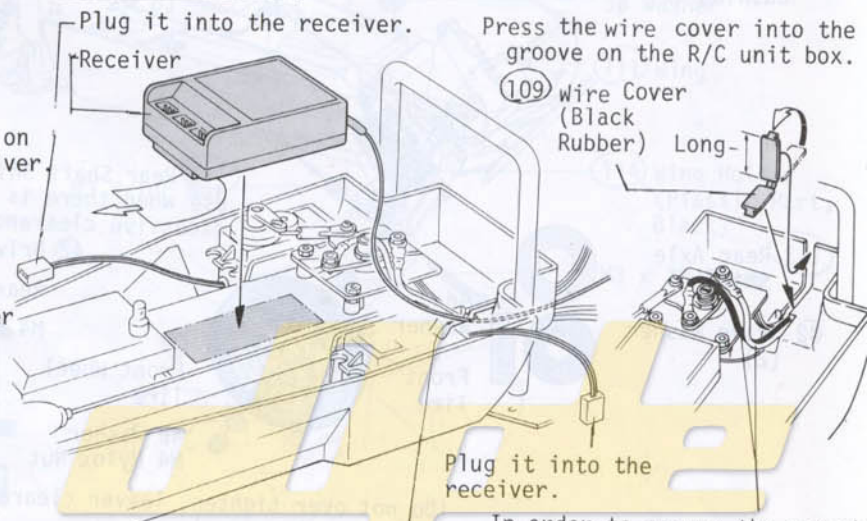
26 MOUNTING RECEIVER

[Affixing of Double Sided Tape]

Cut the foam Double Sided Tape to the width of the receiver and put the tape on the underside of the receiver.



26 MOUNTING RECEIVER

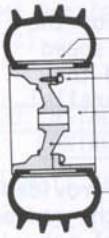


27 ASSEMBLY OF TIRE

[Small Parts Needed]

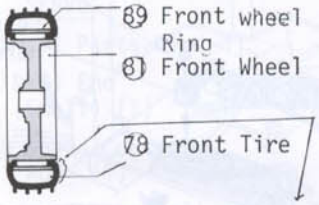
M2 x 8 Self Tapping Screw (10)

[Cross-Sectional View of Rear Wheel]



84 Rear Wheel (R-2)
M2 x 8 Self Tapping Screw
85 Rear Wheel (R-3)
83 Rear Wheel (R-1)
80 Rear Tire

[Cross-Sectional view of Front Tire]

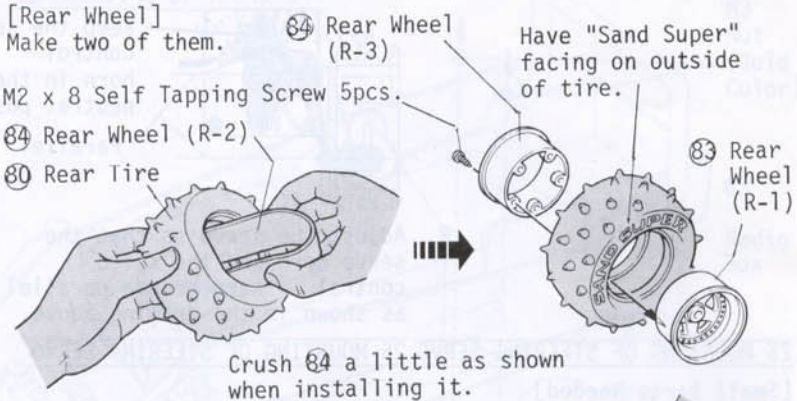


89 Front wheel Ring
81 Front Wheel
78 Front Tire

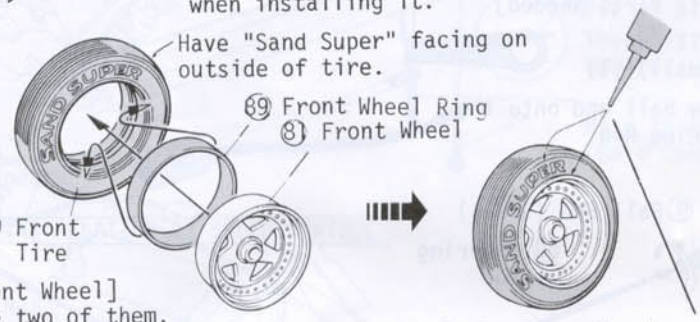
Push in the edge of the tire between the wheel ring and the wheel.

27 ASSEMBLY OF TIRE

[Rear Wheel]
Make two of them.



84 Rear Wheel (R-3)
Have "Sand Super" facing on outside of tire.
M2 x 8 Self Tapping Screw 5pcs.
84 Rear Wheel (R-2)
80 Rear Tire
83 Rear Wheel (R-1)
Crush 84 a little as shown when installing it.



Have "Sand Super" facing on outside of tire.
89 Front Wheel Ring
81 Front Wheel
79 Front Tire
[Front Wheel]
Make two of them.
Apply instant glue here.

28 INSTALLATION OF TIRE

[Small Parts Needed]

M4 Nyloc Nut (4)

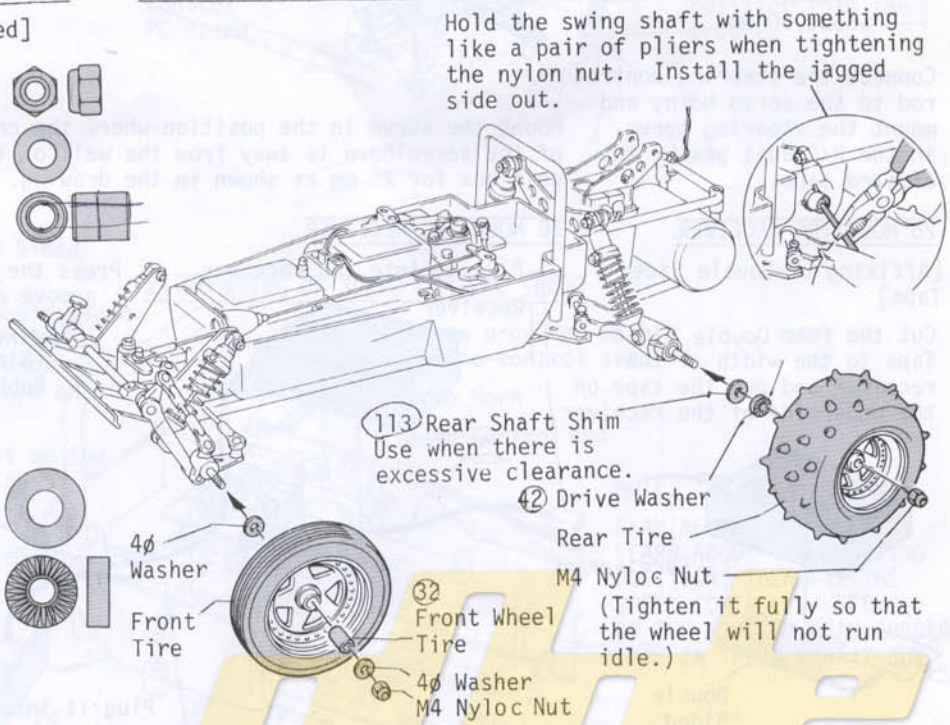
4ø Washer (4)

82 Front Wheel Bushing (2)

113 Rear Axle Shim (2)

42 Drive Washer (2)

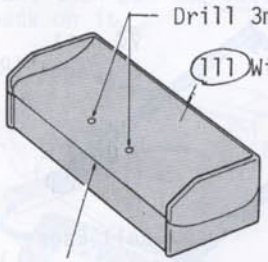
28 INSTALLATION OF TIRE



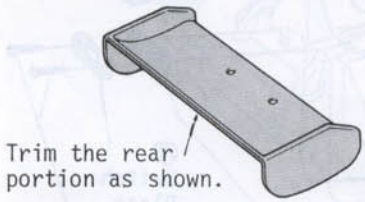
Hold the swing shaft with something like a pair of pliers when tightening the nylon nut. Install the jagged side out.
113 Rear Shaft Shim
Use when there is excessive clearance.
42 Drive Washer
Rear Tire
M4 Nyloc Nut
(Tighten it fully so that the wheel will not run idle.)
4ø Washer
Front Tire
82 Front Wheel Tire
4ø Washer
M4 Nyloc Nut
(Do not over tighten, leaver clearance so the wheel spins.)

29 PAINTING OF BODY AND WING

[Cutting out Wing]

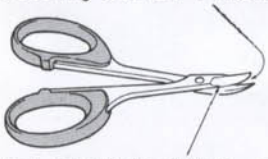


Cut off along the cutout line.



Trim the rear portion as shown.

Use the tip of the blade for cutting curved lines.



For straight lines, use the base of the blades.

Polyca Colors are paints composed exclusively for painting lexan.

They are very easy to use. Different colors are available.

30 INSTALLATION OF WING

[Small Parts Needed]

M3 x 8 Self Tapping Screw (2)

M3 x 8 Screw (1)

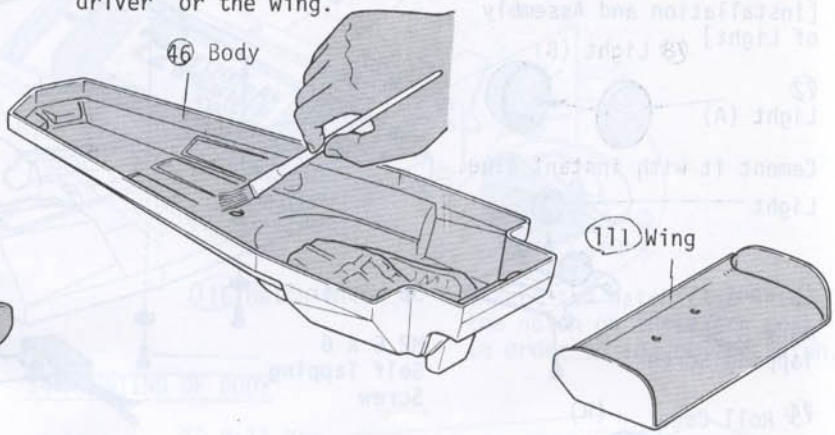
M3 Nyloc Nut (1)

3ø Washer (2)

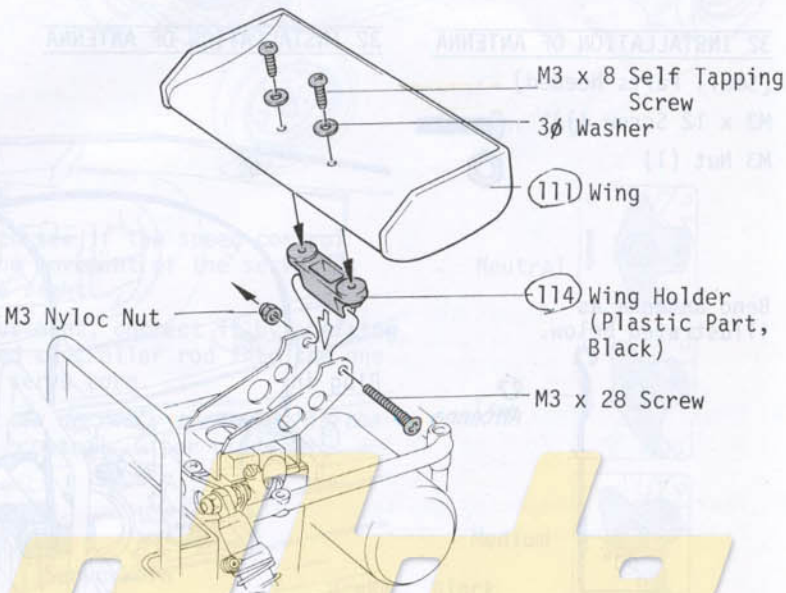
29 PAINTING OF BODY AND WING

*The lexan body will be more lustrous when being painted on the inside. So if you want it glossy all over the body, aplly all colors inside. If you like to make any place lustreless, paint that portion outside. When applying many colors, start to paint from a light color to a darker in order of darkness.

*After painting, affix any decals at your choice on the driver or the wing.



30 INSTALLATION OF WING



31 INSTALLATION OF ROLL CAGE GUARD

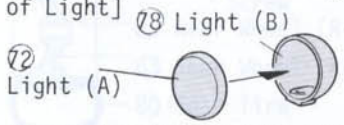
[Small Parts Needed]

M2.6 x 6 Self Tapping Screw (8)

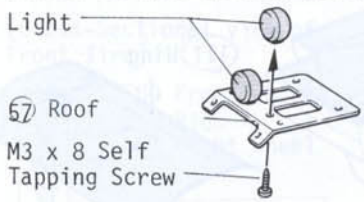
M3 x 8 Self Tapping Screw (4)

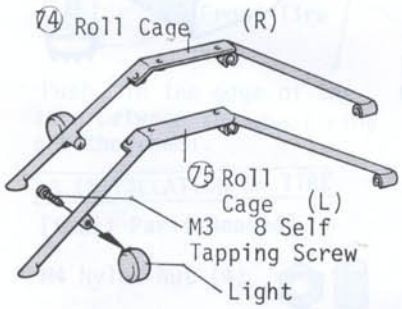
3ø Washer (2)

[Installation and Assembly of Light]

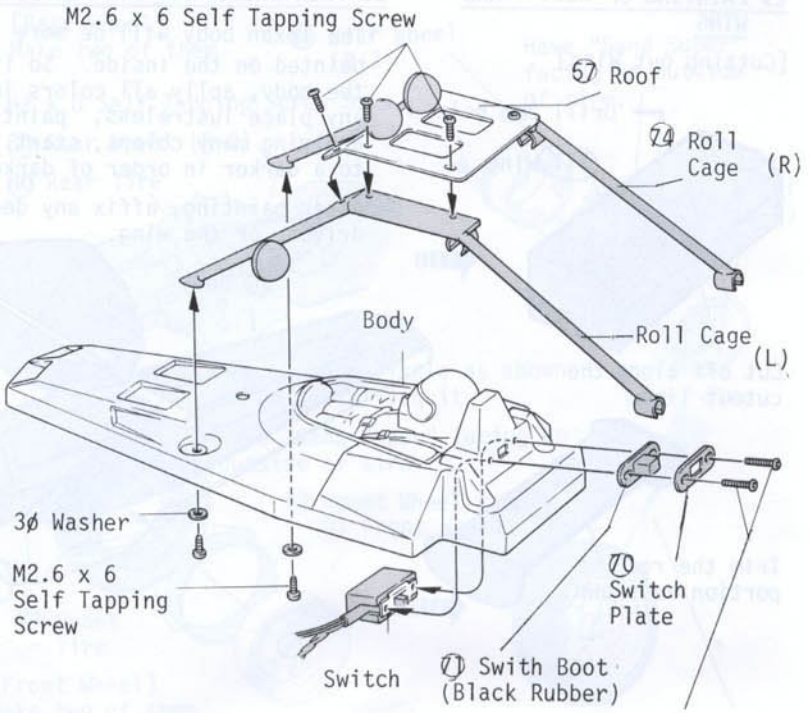


Cement it with instant glue.





31 INSTALLATION OF ROLL CAGE



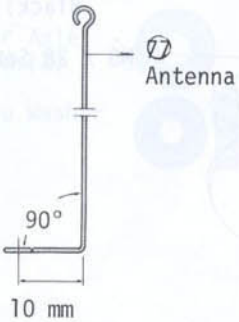
32 INSTALLATION OF ANTENNA

[Small Parts Needed]

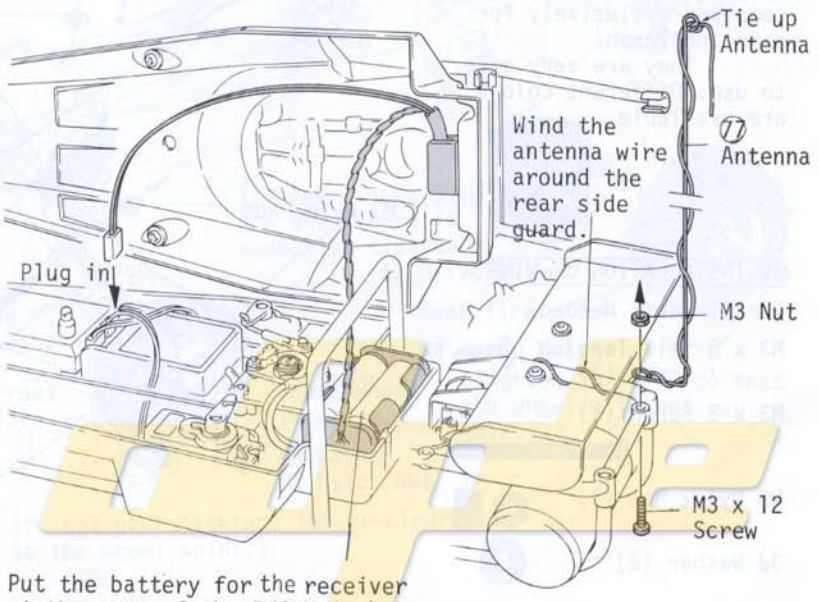
M3 x 12 Screw (1)

M3 Nut (1)

Bend antenna as illustrated below.



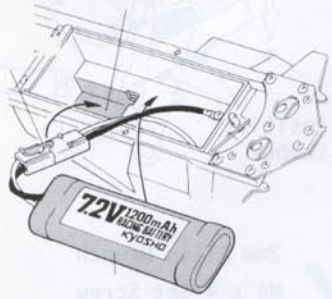
32 INSTALLATION OF ANTENNA



Put the battery for the receiver at the rear of the R/C Unit box.

33 INSTALLING BATTERY

House the connector into the square well of the R/C unit box, then put the battery pack on it.

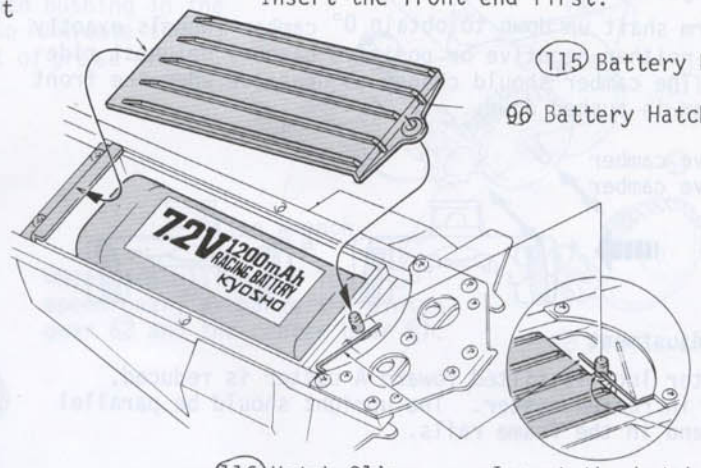


33 INSTALLING BATTERY

Insert the front end first.

(115) Battery Hatch

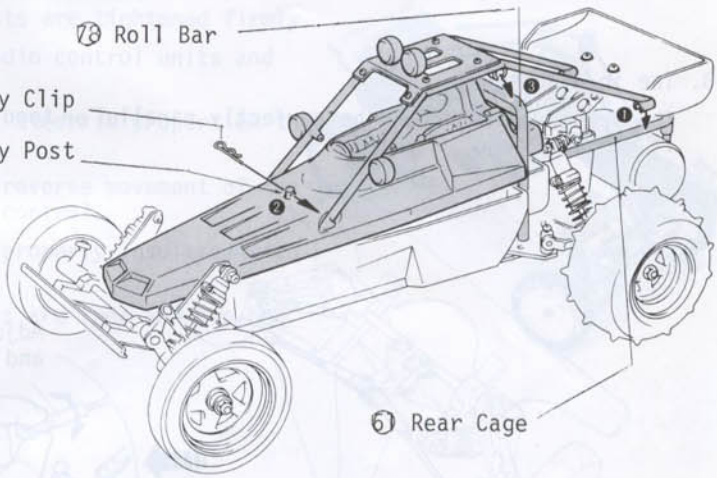
(96) Battery Hatch Post



(116) Hatch Clip

Insert the hatch clip into the notch on the hatch post in order to secure the hatch.

34 MOUNTING OF BODY



CHECK OF SPEED CONTROL OPERATION

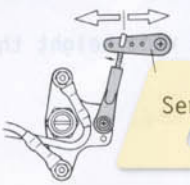
*Before running the car, check to see if the speed control works properly in relation to the movement of the servo, as shown in the illustration on the right.

*If you find anything out of adjustment, correct it by shifting the connecting point of the speed controller rod into the one step outer or inner hole on the servo horn.

To increase the swing of the control wiper blade.

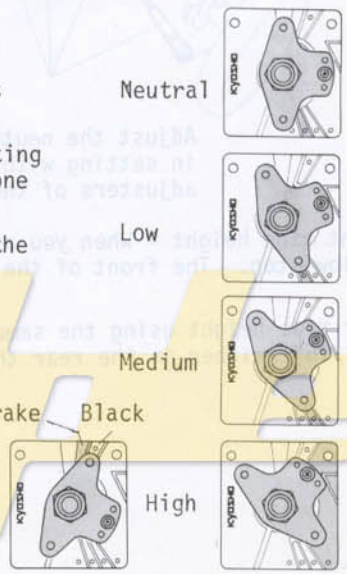
To decrease the swing of the control wiper blade.

Speed Controller Rod



Servo Horn

Brake Black

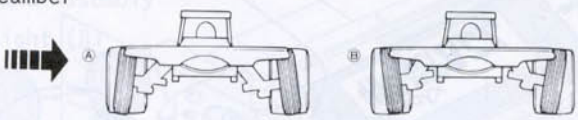


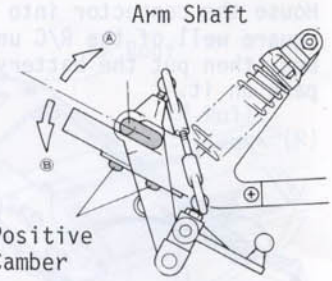
CHASSIS ADJUSTMENT

1. Camber Adjustment

Rotate arm shaft up down to obtain 0° camber (wheels exactly vertical neither negative or positive camber) heighest ride height. The camber should change to negative when the front of the car is pushed down.

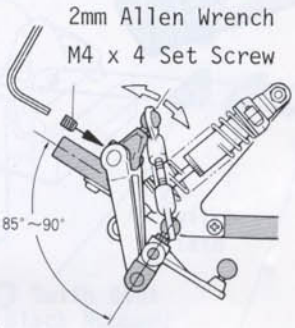
A Negative camber
B Positive camber





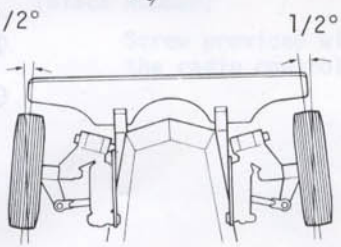
2. Caster Adjustment

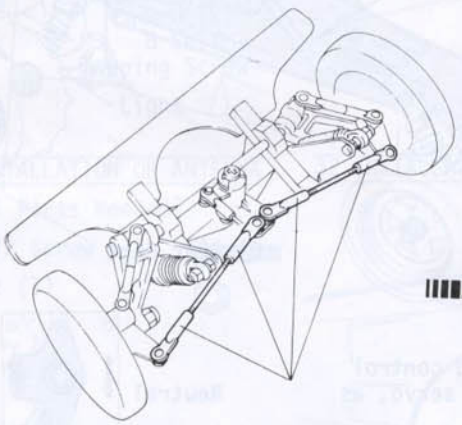
When caster lock is tilted foward A caster is reduced, toward B increases caster. The upright should be parallel to the bend in the frame rails.

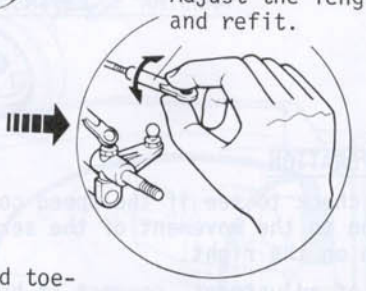


3. Toe in Adjustment

The front wheels should be perfectly parallel or toed-in 1° maximum.







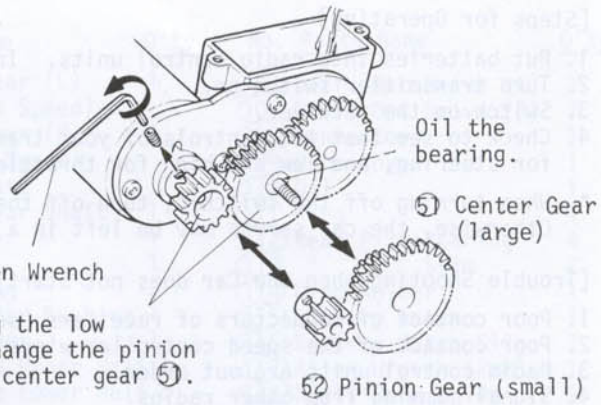
Adjust the neutral and toe-in setting with four ball fitted adjusters of the control rods.

4. Front ride height - When you are ready to run the car, drive it a few feet and come to a slow stop. The front of the car should be 1/16" below maximum possible ride height.

5. Rear ride height using the same procedure for front ride height the chasis rails should be 1/16" heigher in the rear than in the front.

BEFORE RUNNING

Place a drop of oil on each bushing in the gear box and wheels. Also lubricate the gears with a small amount of grease or oil.



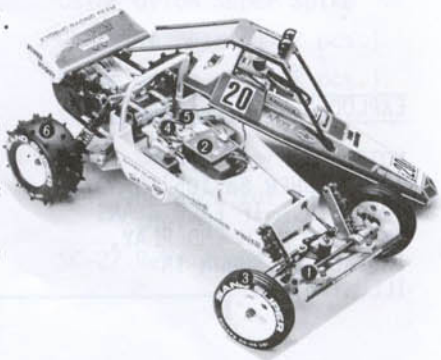
When installing the low speed gear, exchange the pinion gear 52 and the center gear 51.

CHECK BEFORE RUNNING

[Check before Running]

Before running the car, check the parts in order of the numbers as shown in the picture.

*Drive slowly the first time the car is run, Continue driving slowly until the battery needes recharging. Check all moving parts on the car.



1. Check to see if all bolts and nuts are tightened firmly.
2. Check to see if batteries for radio control units and the motor are charged fully.
3. Check to see if the front wheels steer in proportion to your control of the transmitter.
4. Check to see if the forward and reverse movement of the car responds accurately to your control.
5. Check to see that all wiring is properly insulated with vinyl tape.
6. Check to see that the rear wheels are free and can be turned by hand.

[Steps for Operating]

1. Put batteries into radio control units. Install main Ni-cad running battery.
2. Turn transmitter switch on.
3. Switch on the receiver.
4. Check to see that the controls of your transmitter operate correctly, right and left for steering, and low and high for throttle.

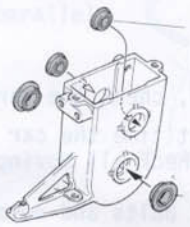
* When turning off the switches, turn off the receiver first then transmitter. Otherwise, the car servos may be left in a position other than neutral.

[Trouble Shooting when the Car does not Start]

1. Poor contact of connectors of receivers, servos, batteries or of electric wiring.
2. Poor contact of the speed controller wiper blade.
3. Radio control units are out order.
4. Signal jamming from other radios.

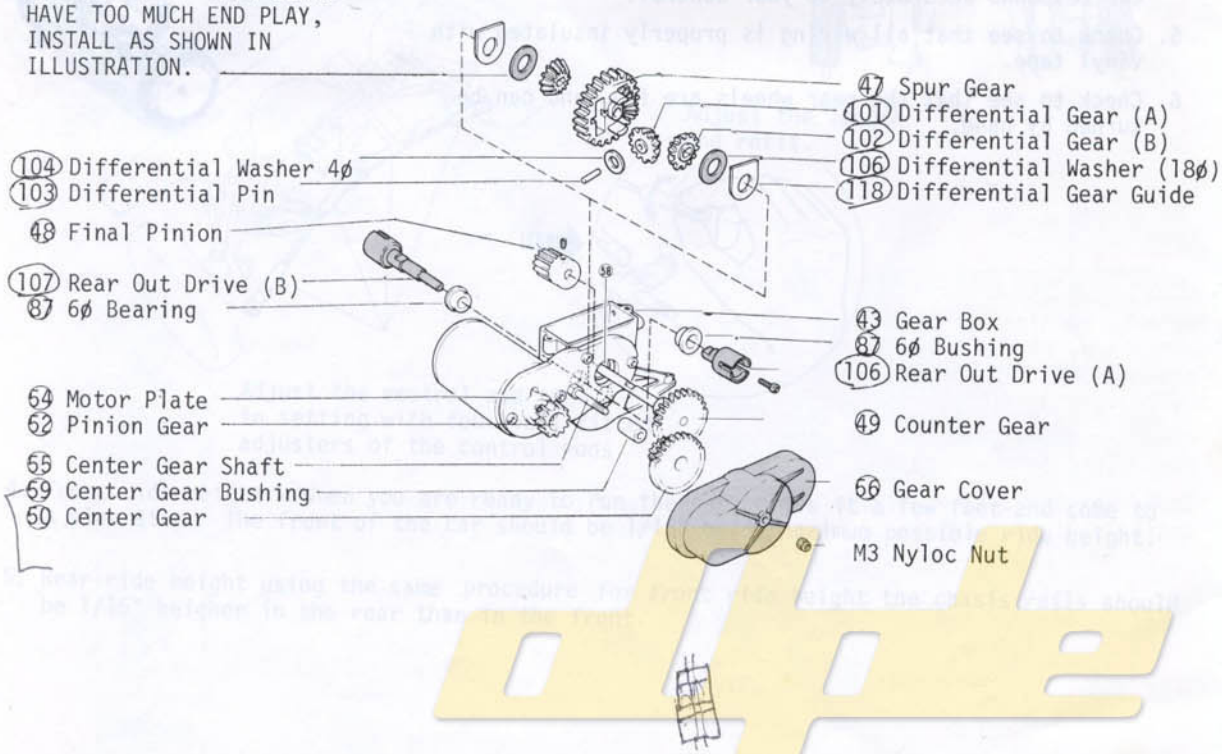
OPTIONAL PARTS

Plain bearings are installed in the gear box and the front wheels. For less friction, replace them with the ball bearings which are available as optional parts.



EXPLODED VIEW OF GEAR BOX

NOTE:
DIFF WASHER 8ø (105) IS NOT BUILT IN. IF EACH GEARS HAVE TOO MUCH END PLAY, INSTALL AS SHOWN IN ILLUSTRATION.



PARTS LIST

No.	Parts Name	Q'ty
1	Front Bumper	1
2	Chassis Rails	2
3	Arm Shaft	1
4	Arm Shaft Biocks	2
5	Lower Arm (L,R)	1set
6	Caster Locks	1 "
7	Upper Control Link (Rod)	2
8	Pillow Ball	8
9	Ball End (S)	2
10	Upright	2
11	Body Clip	1
12	Steering Knuckle	1set
13	Tie Rod (Rod)	2
14	Decal	1
15	Rear Sus. Arm	2
16	Servo Saver Mount	1
17	Servo Saver	1set
18	Rear Shock Body	2
19	Shock Washer	4
20	Shock O-Ring	4
21	Shock Guide	4
22	Shock End	4
23	Shock Bush	4
24	Shock Ball	4
25	Ball End (Large)	8
26	Shock Piston Rod (Front)	2
27	Shock Piston Rod (Rear)	2
28	Front Shock Fowers	2
29	Rear Shock Mount	1
30	Rear Chasis Plate	1
31	Rear Sus. Plate	1
32	Rear Sus. Shaft	2
33	Rear (suspension arm) Posts (S)	2
34	Rear (suspension arm) Posts (L)	2
35	Front Spring	2
36	Rear Spring	2
37	Front Shock Body	2
38	Spring Collar	4
39	Drive Shaft	2
40	Rear Axle	2
41	Shock Wrench	1
42	Rear Drive Hub	2
43	Gear Box	1
44	Gear Box Cover	1
45	Gear Box Seal	1
46	Body	1
47	Spur Gear	1
48	Final Pinion	1
49	Counter Gear (w/shaft)	1
50	Center Gear (for High Speed)	1
51	Center Gear (for Low Speed)	1
52	Pinion Gear (L) (for High Speed)	1
53	Pinion Gear (S) (for Low Speed)	1
54	Motor Plate	1
55	Center Gear Shaft	1
56	Gear Cover	1
57	Roof	1
58	4ø Bushing	2
59	Center Gear Bushing	1
60	Motor Cover	1
61	Rear Cage Upper Half	1
62	Rear Cage Lower Half	2
63	Radio Box	1
64	Wing Mount	1
65	Speed Control Horn	1
66	Resistor	2
67	Linkage Ball	2
68	Speed Control Rod	1
69	Steering Rod	1
70	Switch Plate	1
71	Switch Boot	1
72	Light (A)	4
73	Light (B)	4
74	Roll Cage (R)	1
75	Roll Cage (L)	1
76	Double Sided Tape	1
77	Antenna	1
78	Roll Bar	1
79	Front Tire	2
80	Rear Tire	2
81	Front Wheel	2
82	Front Wheel Bearing	2
83	Rear Wheel (R-1)	2
84	" (R-2)	2
85	" (R-3)	2
86	Spring Platform	4
87	6ø Bushing	2
88	Allen Wrench (1.5mm)	1
89	Front Wheel Ring	2
90	Speed Control PC board	1
91	Speed Control Spring	1
92	Speed Control Nut	1
93	Speed Control Contact	2
94	Speed Control Retainer	1
95	Speed Control Pivot	1
96	Battery Hatch Post	1
97	Fitting Plate	1
98	Body Post	1
99	Rod Ring	1
100	Rod Boot	1
101	Diff. Gear (A)	2
102	" " (B)	2
103	Diff Pin	2
104	Diff Washer (4ø)	2
105	Diff Washer (4ø,8ø)	2
106	Diff. Out Drive (A)	1
107	Diff. Out Drive (B)	1
108	Connector	1
109	Wire Cover	1
110	Oil	1
111	Wing	1
112	Rear Axle Bearing	4
113	" " Shim	2
114	Wing Holder	1
115	Battery Hatch	1
116	Battery Hatch Clip	1
117	Allen Wrench (2mm)	1
118	Diff. Gear Guide	2
119	Shock Seal	4

[OPTIONAL PARTS]

CB-86 Nylon Super Spike

CK-63 4ø Bearing (2 pcs.)

MS-26 6ø Bearing (2 pcs.)

SC-58 Heatsink

SC-61 Second Gear

SC-80 Resistor for 4 speed Control

SC-27 Rear Tire

SPARE PARTS LIST

Parts No.	Description	Includes these parts
SC- 2	Chassis Rails	2 x 2
3	Arm Shaft Set	3 x 1 4 x 2
4	Lower Arm Set	5 6 x 1 set
7	Steering Knuckle Set	12 x 1 set
9	Servo Saver Mount	16 x 1
12	Front Shock Towers	28 x 2
13	Rear Chassis Plate	29 x 1
14	Gear Box Mount	30 x 1
17	Drive Shaft	39 x 2
18	Rear Axle	40 x 2
19	Rear Wheel Bushings	112 x 4
20	Drive Hub	42 x 2
21	Rear Cage Set	61 x 1 62 x 2
84	Special Rear Tire	80 x 2
36	Gear Cover and Motor Plate Set	54 55 56 x 1
37	Gear Box Bushing Set	59 x 1 58 87 x 2
40	Motor Cover	60 x 1
41	Servo Saver	17 x 1
42	Rear Suspension Arm	15 x 2
45	Antenna Guide	77 x 1
46	Double Sided Tape	76 x 1
56	Differential	47 106 107 x 1 101 102 103 104 105 118 x 2
60	Diff. Replacement Gears	47 x 1 101 102 103 104 105 x 2
63	Front Wheel Bushing	82 x 2
64	Front Bumper	1 x 1
67	Speed Control	65 90 91 92 94 95 x 1 93 x 2
107	Connector	108 x 1
78	PC Board	90 x 1
79	Speed Control Contact Points	93 x 2
83	Final Pinion Gear	48 x 1
85	Rear Shocks (Special)	41 x 1 18 19 20 21 22 23 24 27 36 38 86 119x2
59	Diff. Rear Out Drives	106 107 x 1
86	Rear Suspension Plate Set	31 x 1 32 33 34 x 2
87	Upper Control Link Set (Turbo)	7 x 2 8 25 x 4
88	Upright Set	8 10 x 2
89	Tie Rod Set (Turbo)	13 x 2 8 25 x 4
9C	Special Front Tire	79 x 2
91	Front Wheel (Turbo)	81 89 x 2
92	Rear Wheel (")	83 84 85 x 2
93	Screw Set (")	Screw, Nut Wrench Set
94	Decal (")	14 x 1
95	Linkage Set (")	63 99 x 1 9 67 x 2
96	Radio Box (")	63 109 115 x 1
97	Roll Cage (")	57 74 75 x 1
98	Roll Bar (")	78 x 1
99	Body (")	46 x 1
100	Wing Set (")	64 111 114 x 1
101	Rear Axle Shim	113 x 10
102	Samll Parts Set (")	44 96 97 98 116 x 1
103	Special Gear Set (B)	50 51 52 53 x 1
105	Resistor	66 x 1
106	Oil	110 x 1
AB-20	Light Set	72 73 x 4
30	Front Shock (Special)	41 x 1 19 20 21 22 23 24 26 35 37 38 86 119 x 2
RS-13	Gear Case	43 45 x 1
16	Gear Set (A)	48 49 x 1
CB-124	Linkage Boots	70 71 99 100 x 1
EP-22	Body Clip	11 x 5

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