MUGEN-BULLDOG AWDS

1/10th SCALE ELECTRIC POWERED RADIO CONTROLLED SPECIAL OFFROADER



good performance even in the hands of a beginner high-traction tires give good roadholding and stability

■2CH. RADIO ■ MABUCHI RS540S ■7.2V-1200mAh NICAD BATTERY

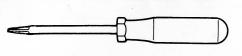
INSTRUCTION MANUAL



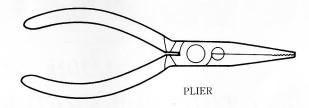
Mugen Engineering Co.,Ltd.

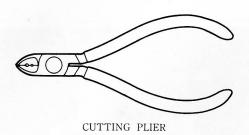
1395 TAKANE-CHO FUNABASHI, CHIBA 273, JAPAN TEL: O474-3O-1663 FAX: O474-3O-1665

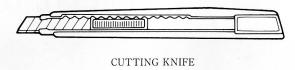
• NECESSARY TOOLS FOR ASSEMLING

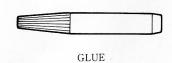


SCREW DRIVERS (for both Slotted Head Screw & Cross Head Screw)



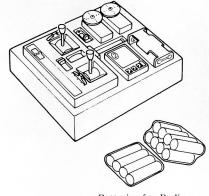




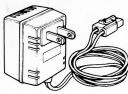


2 NECESSARY THINGS OTHER THAN THE KITS

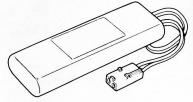
2-Channel Radio



Batteries for Radio



Battery Charger



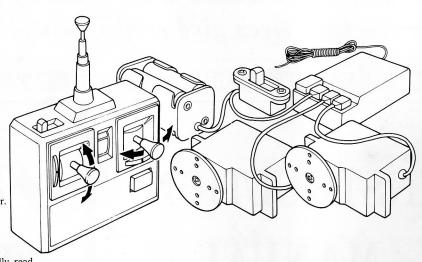
Ni-Cd Battery either $7.2\mathrm{V}$ or $6\mathrm{V}$

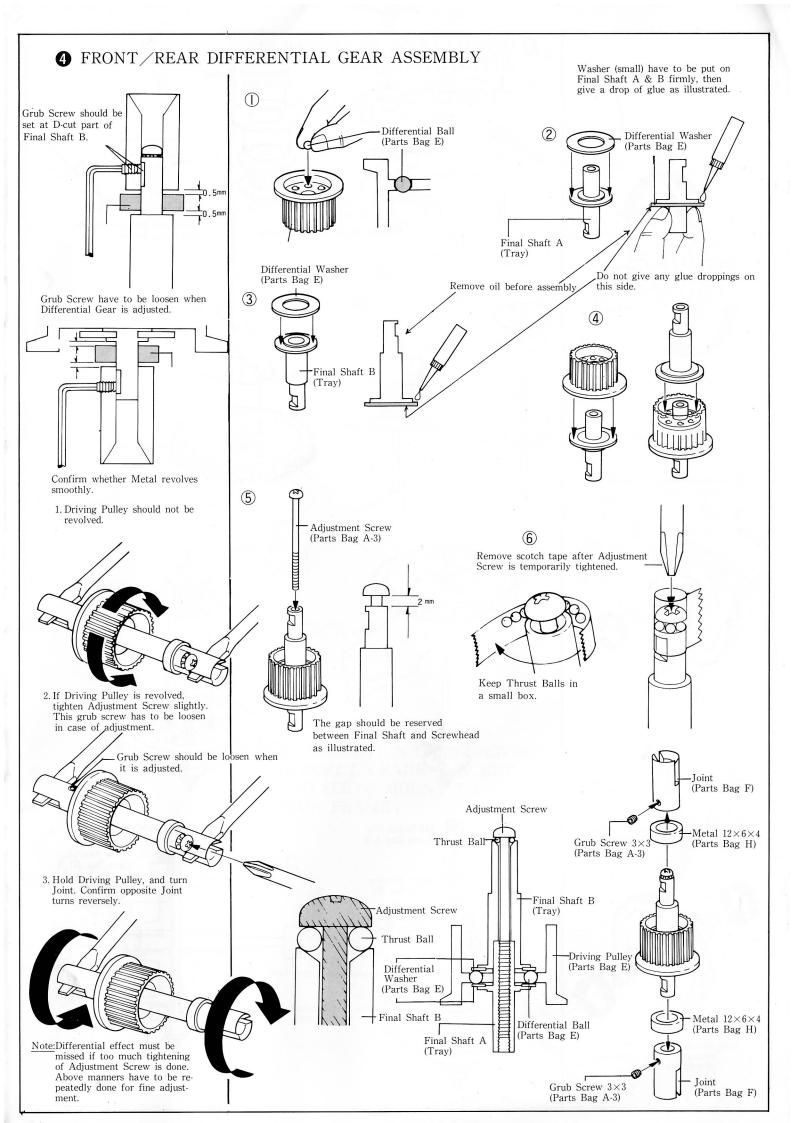
3 NEUTRAL SETTING OF THE RADIO

Radio has to be NEUTRAL when installing to the kit.

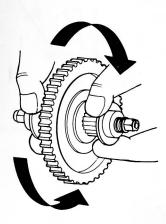
- Sequence to set the neutral:
 1. Power switch of the transmitter and the receiver ON.
 2. Trim lever of the transmitter has to be set at the center.
 3. Power switch of the receiver OFF.
- 4. Power switch of the transmitter OFF.

Instruction manual of the 2-channel radio should be carefully read before using.

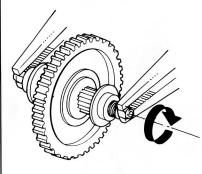




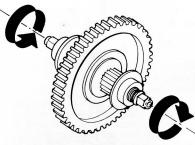
Spur Gear should not revolve after completion.



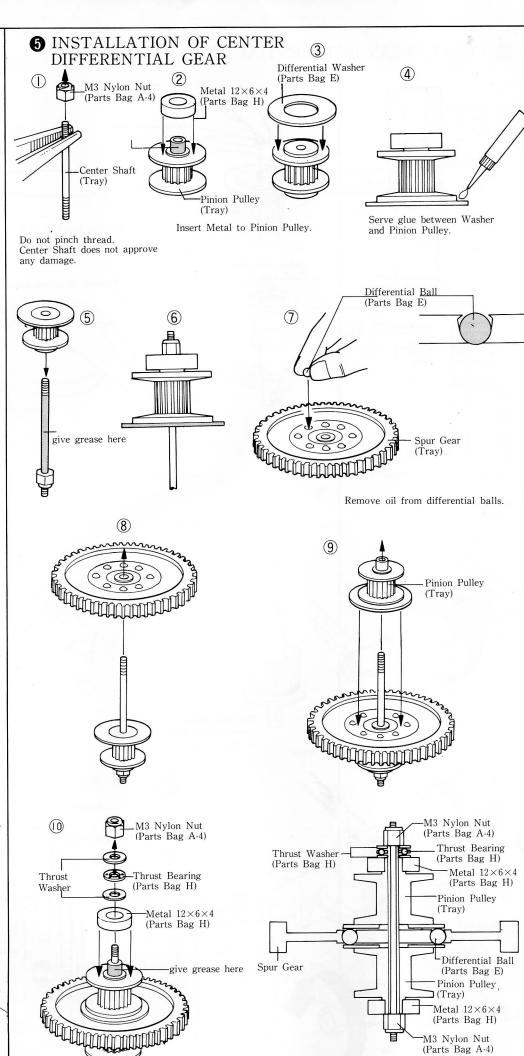
If the Spur Gear revolves, tighten nuts as illustrated.

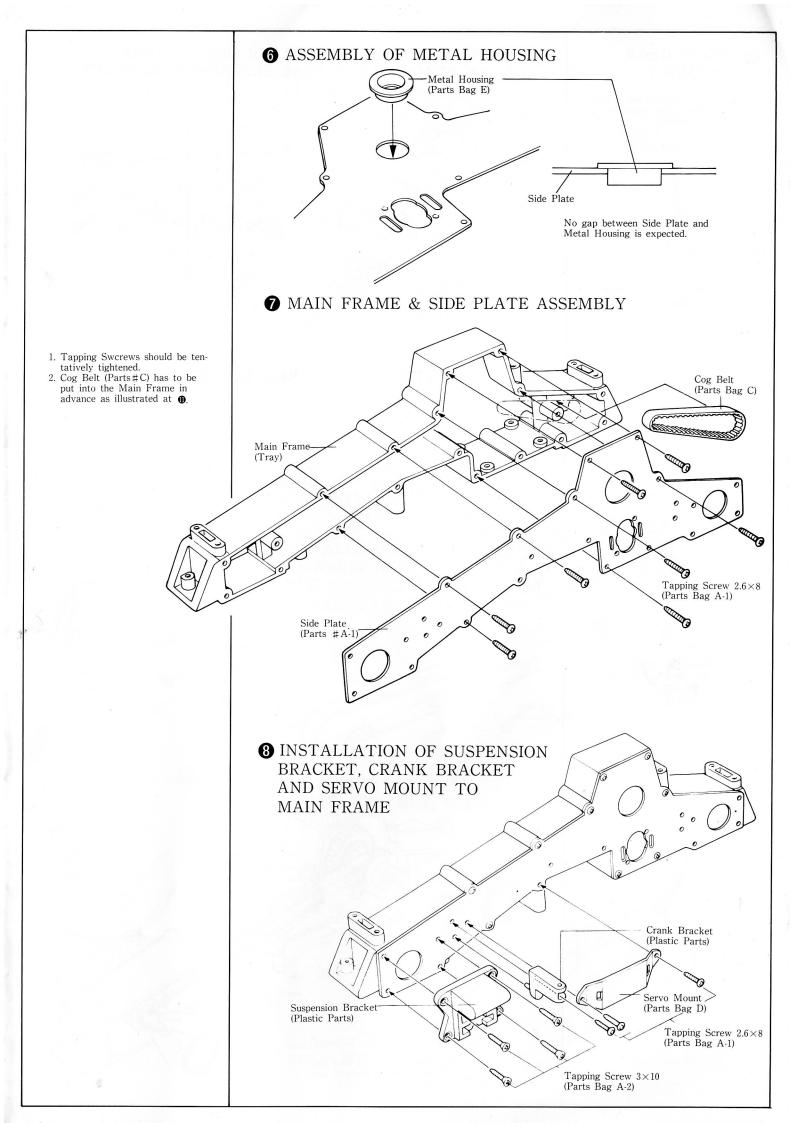


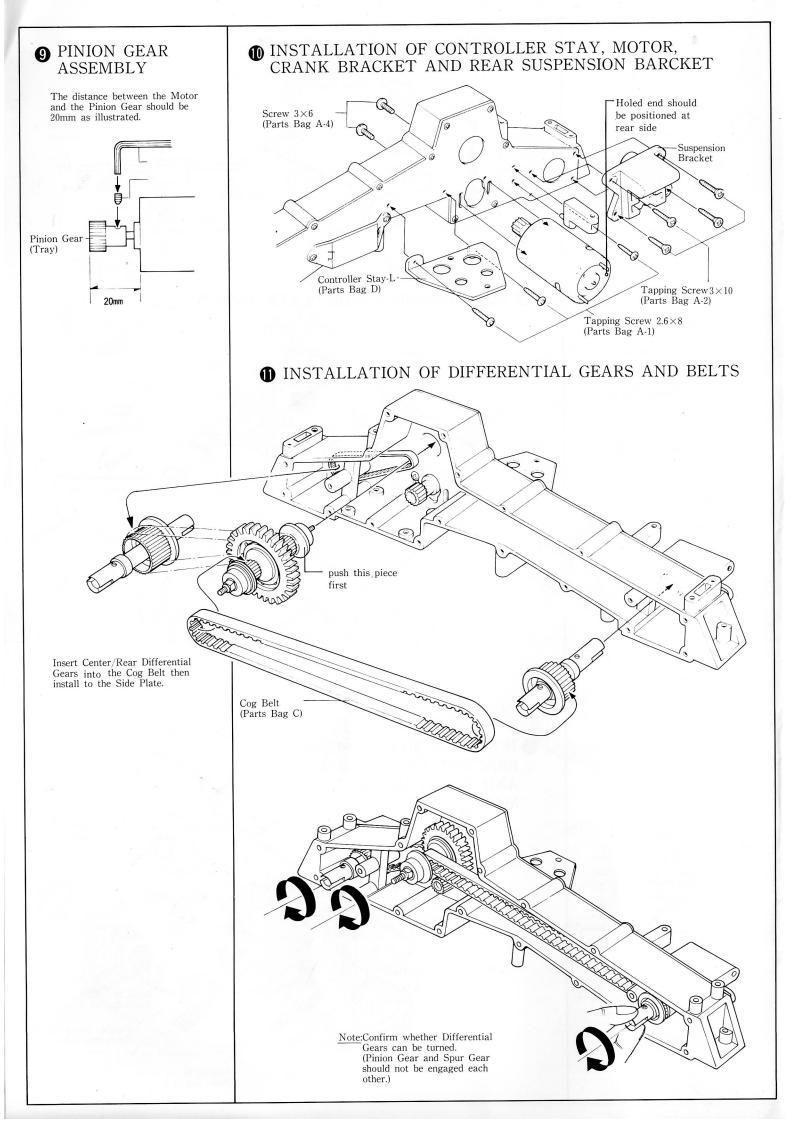
Hold the Spur Gear, and confirm whether Pinion Pulley turns rever-sely when opposite Pinion Pulley is turned.

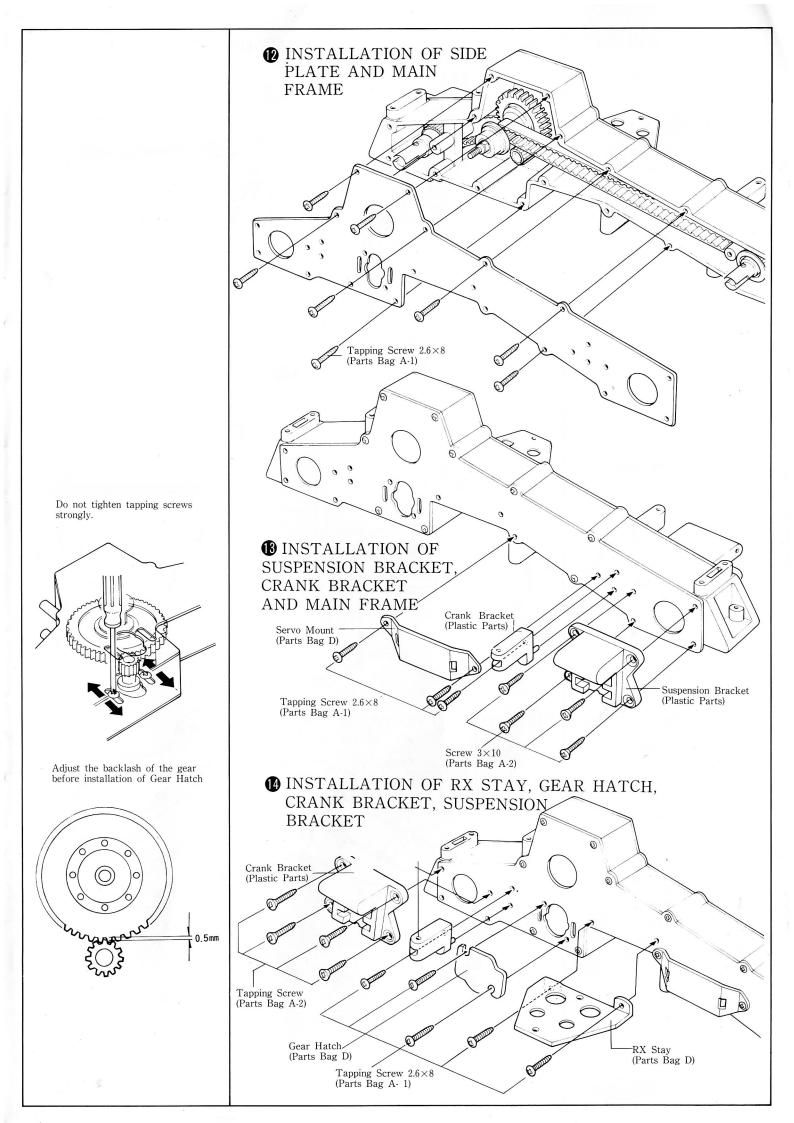


Note:Differential effect must be missed if excess tightenings of nuts are done.







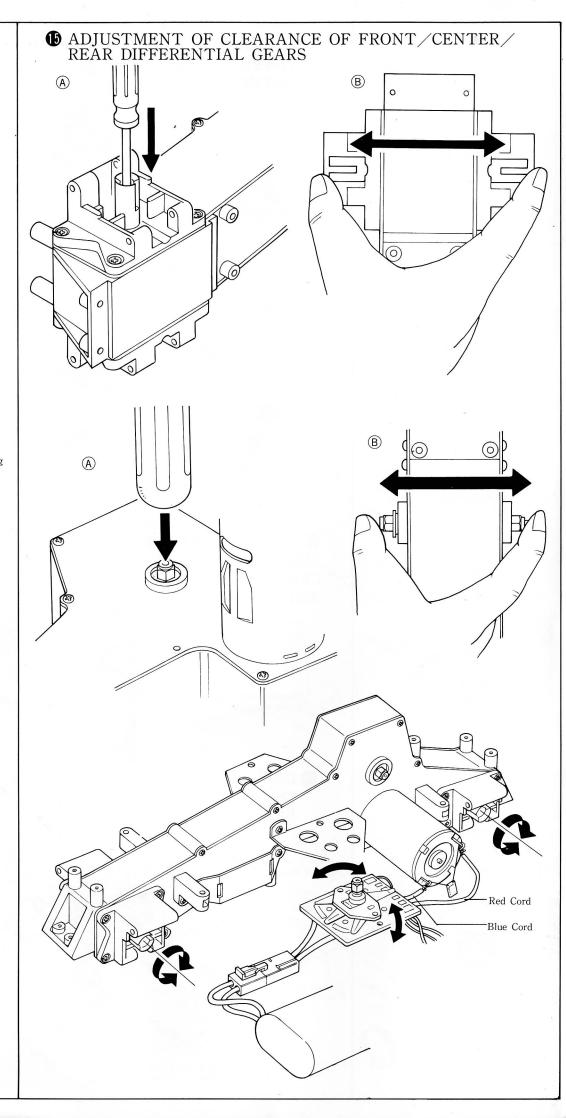


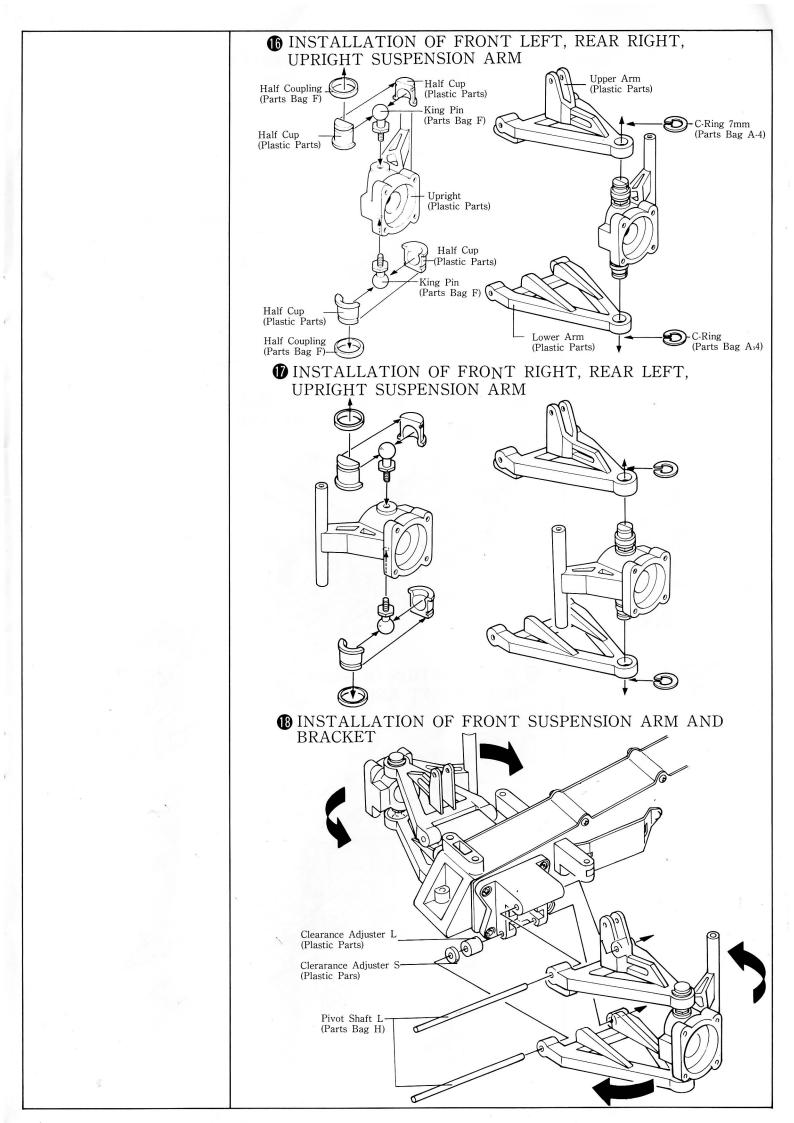
1. Press Front/Rear Differentials strongly with Screw Driver or with similar tools (illustration A), and confirm whether Differentials slightly move (illustration B).

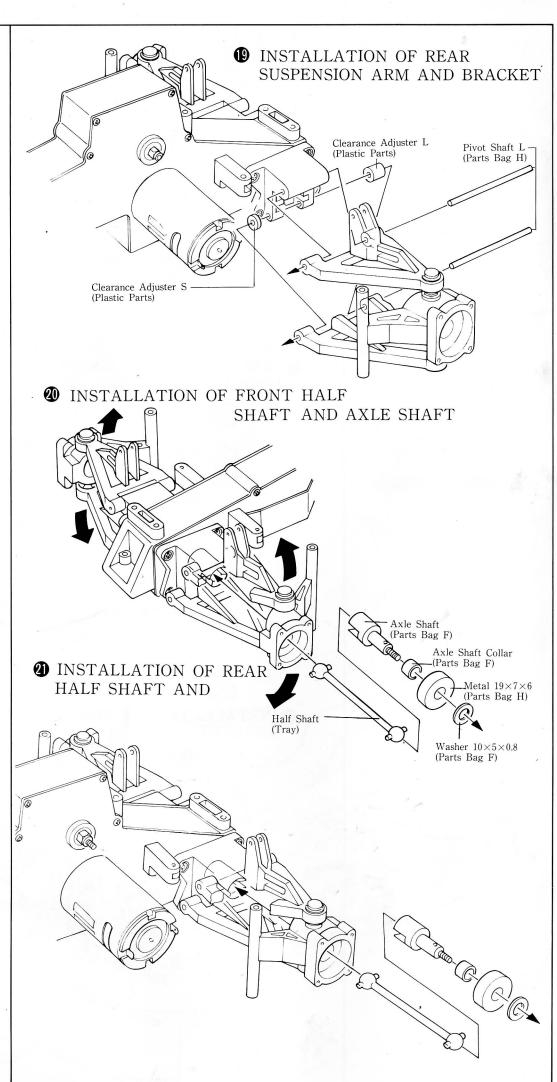
2. Press Center Differential Assembly gently with handle of crew driver. (illustration A), and confirm moving of Differential.

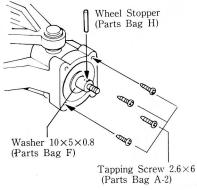
3. After finished of above process, tentatively install Controller and Battery to Main Frame. Manually operate Controller, and confirm revolving of Front and Rear Joints.

If the revolving does not work smoothly, repeat processes 11 through 15.

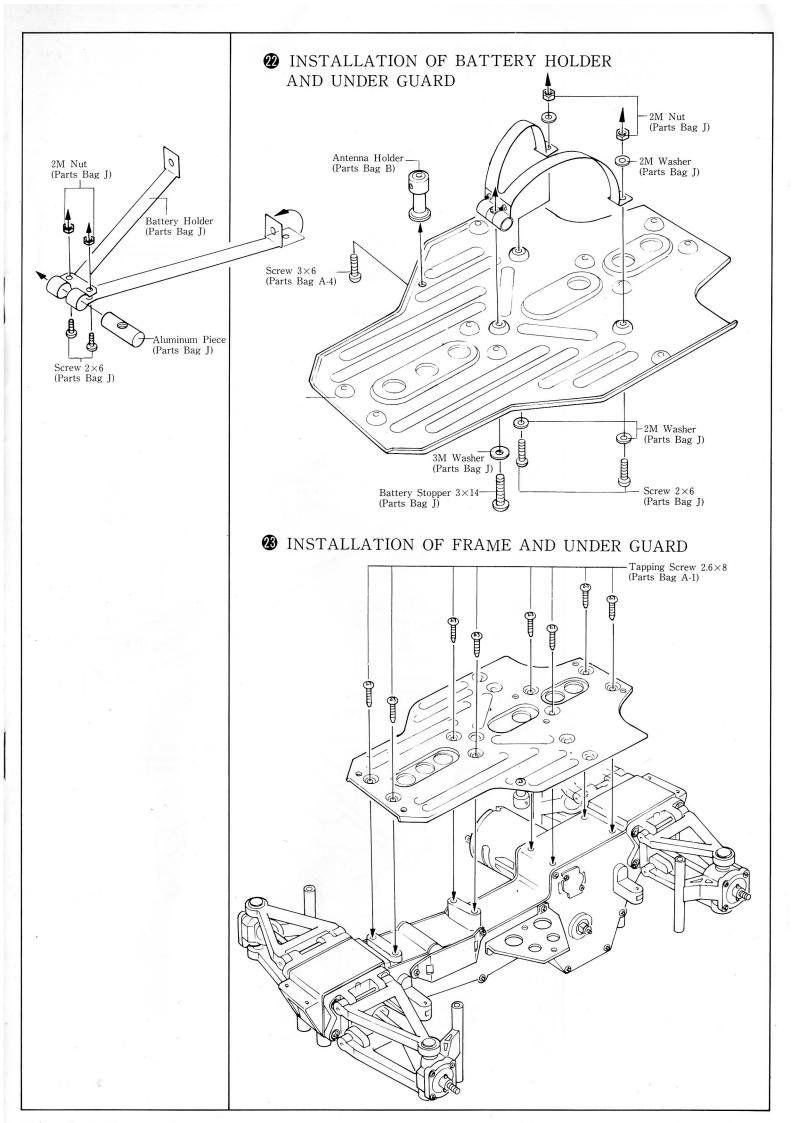


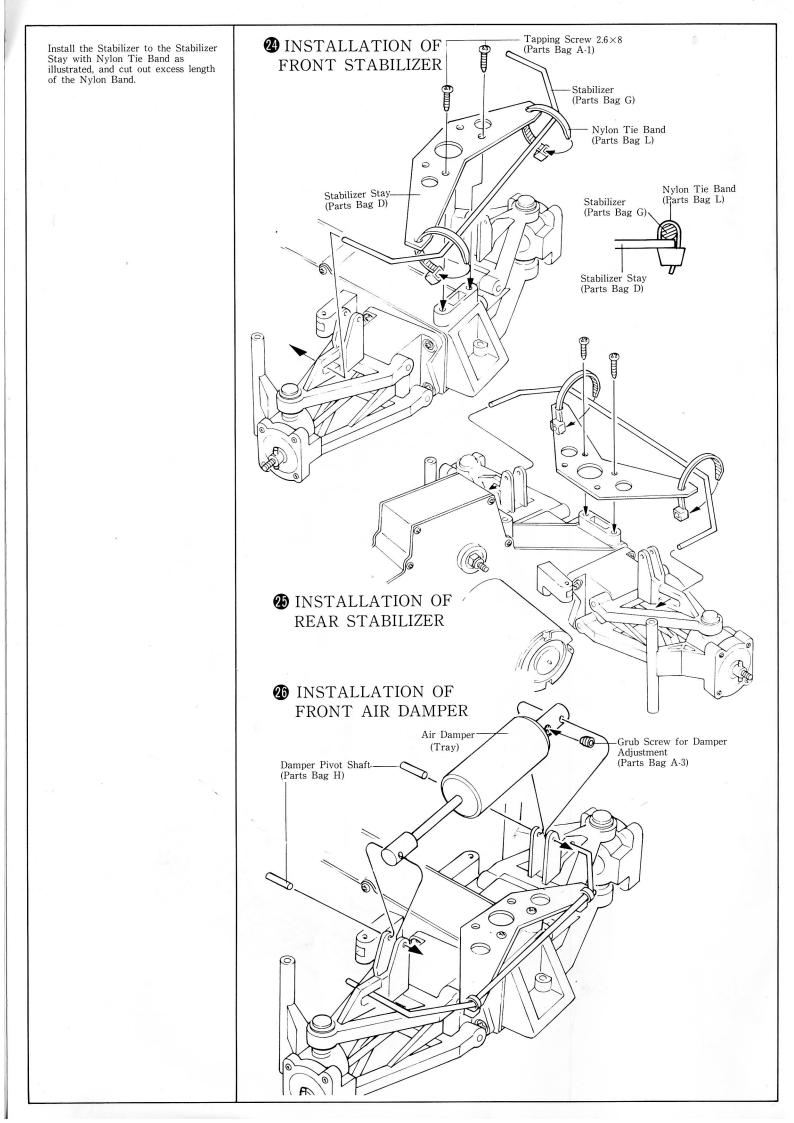




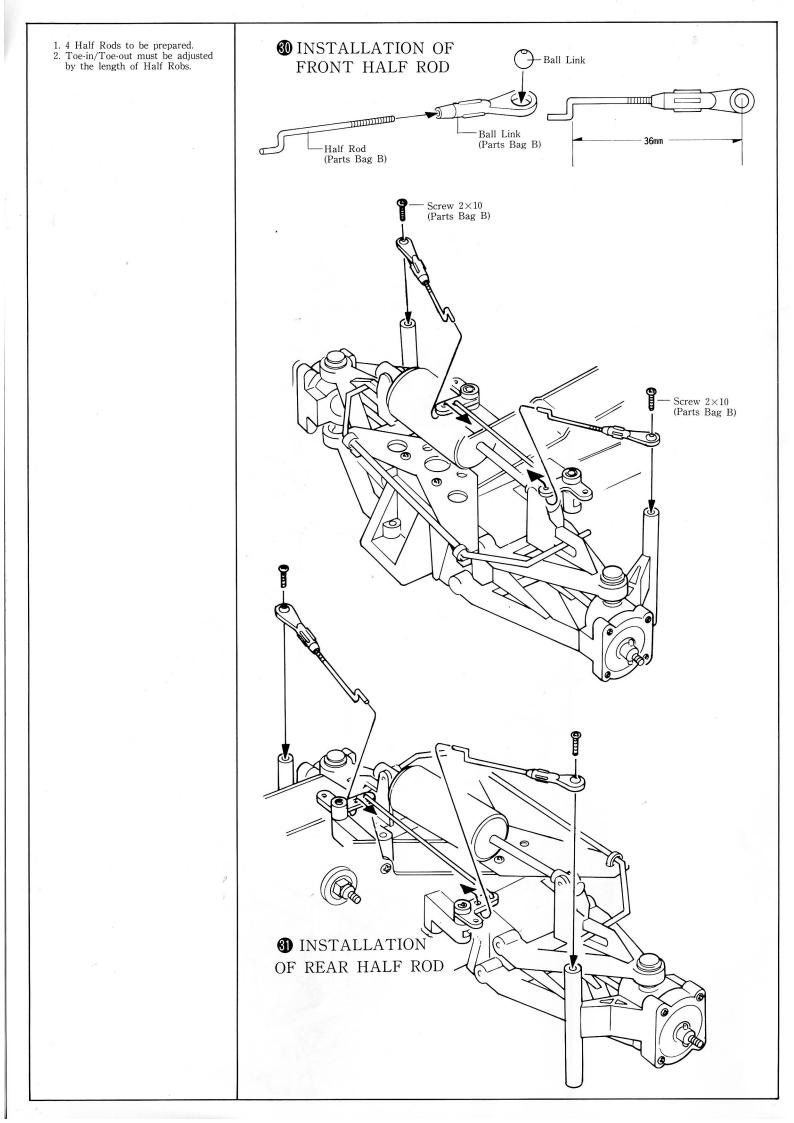


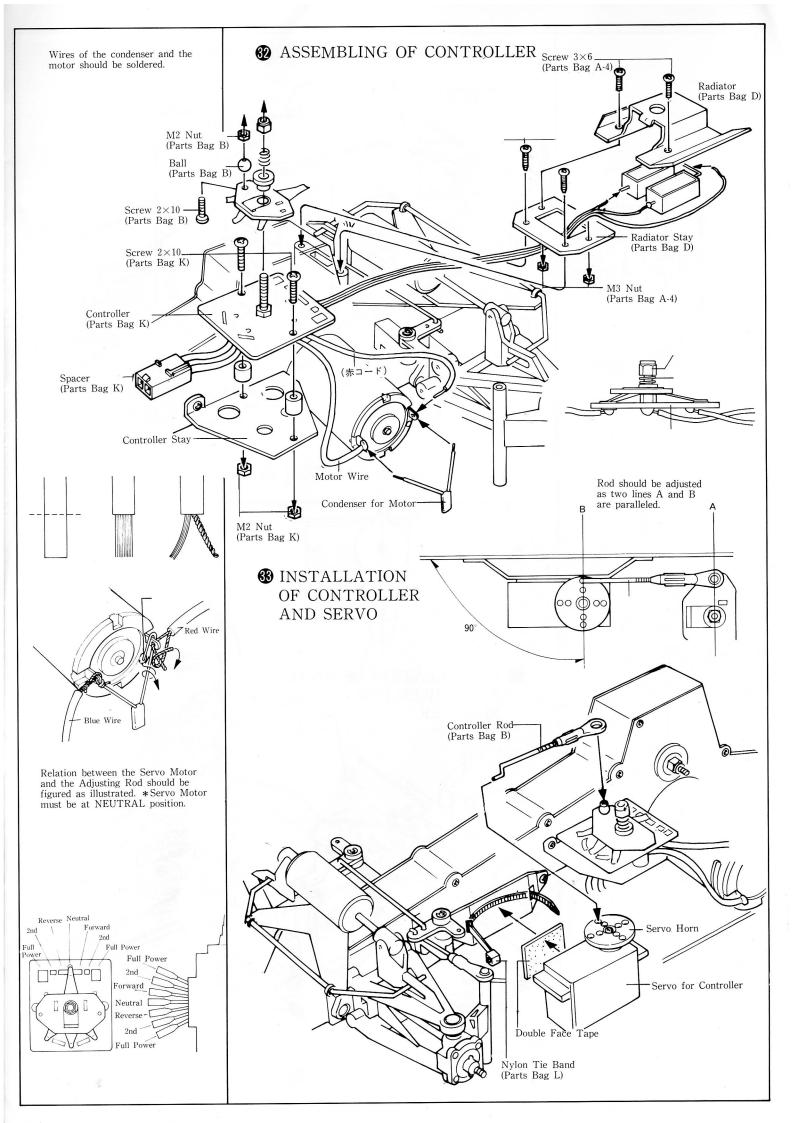
 $\frac{\underline{Note:}}{\text{Suspension actions, indicated}} \\ \underbrace{Suspension}_{\text{by arrows, have to be confirmed after completion.}}$

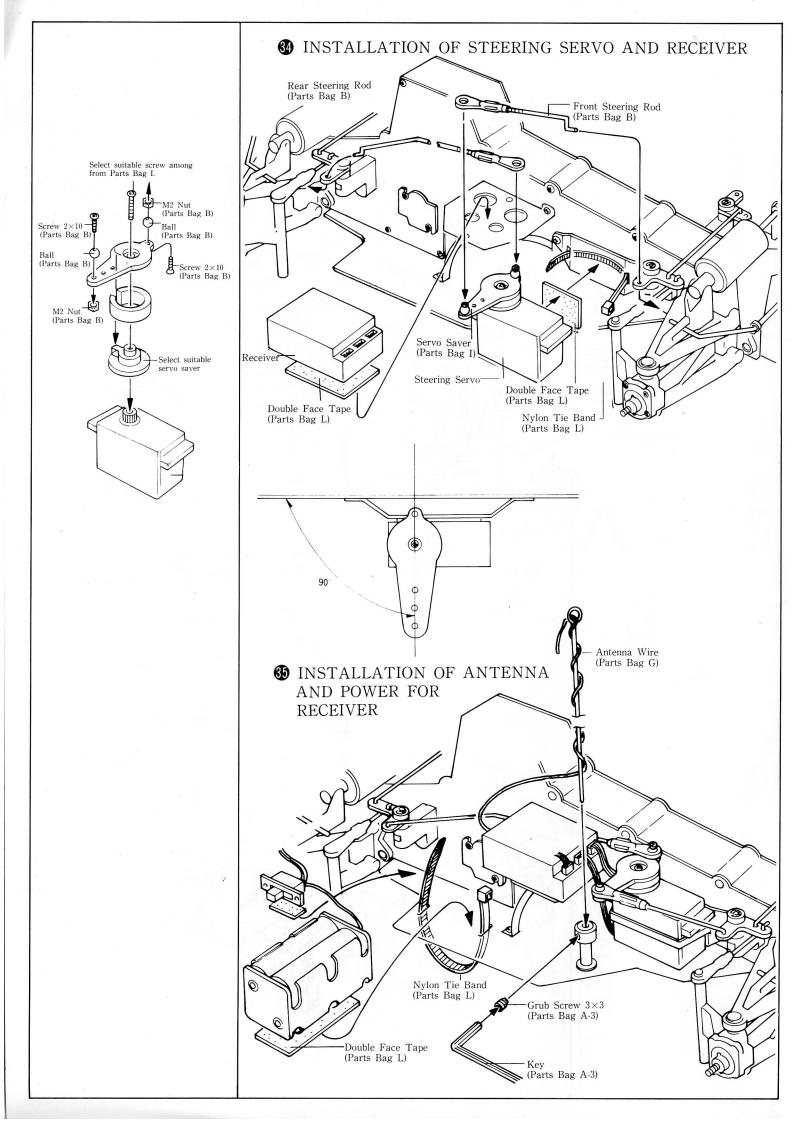


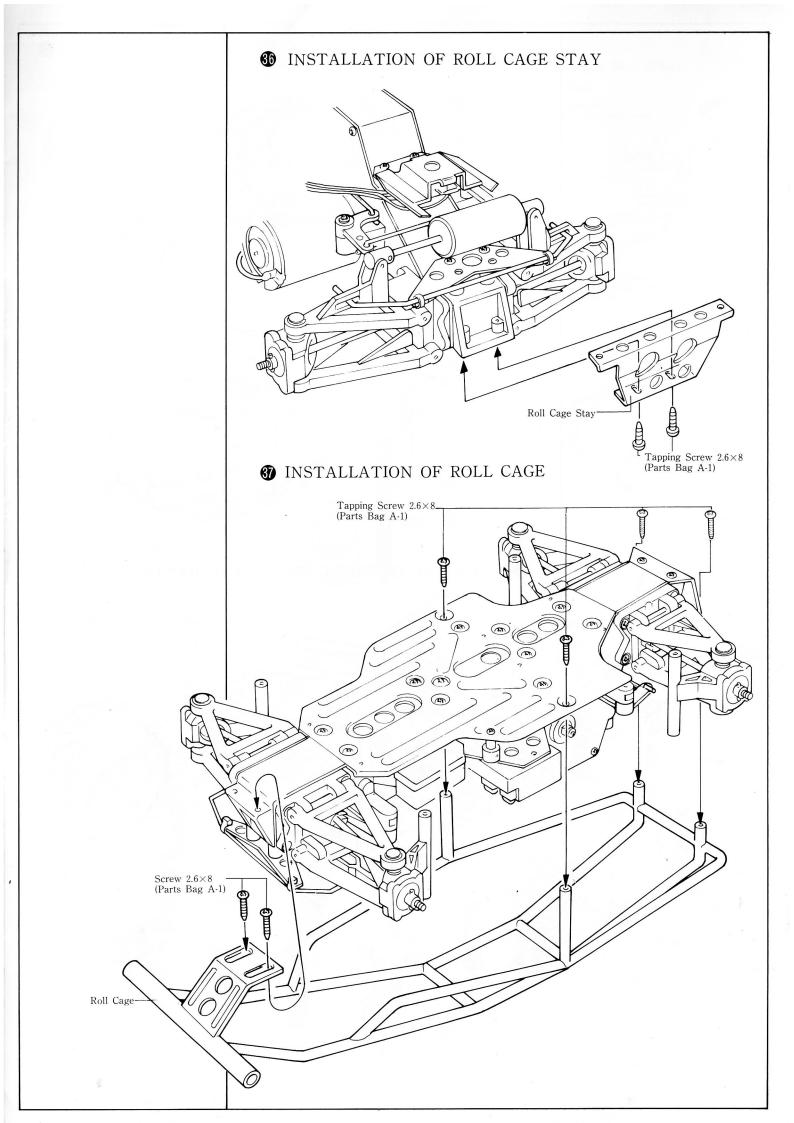


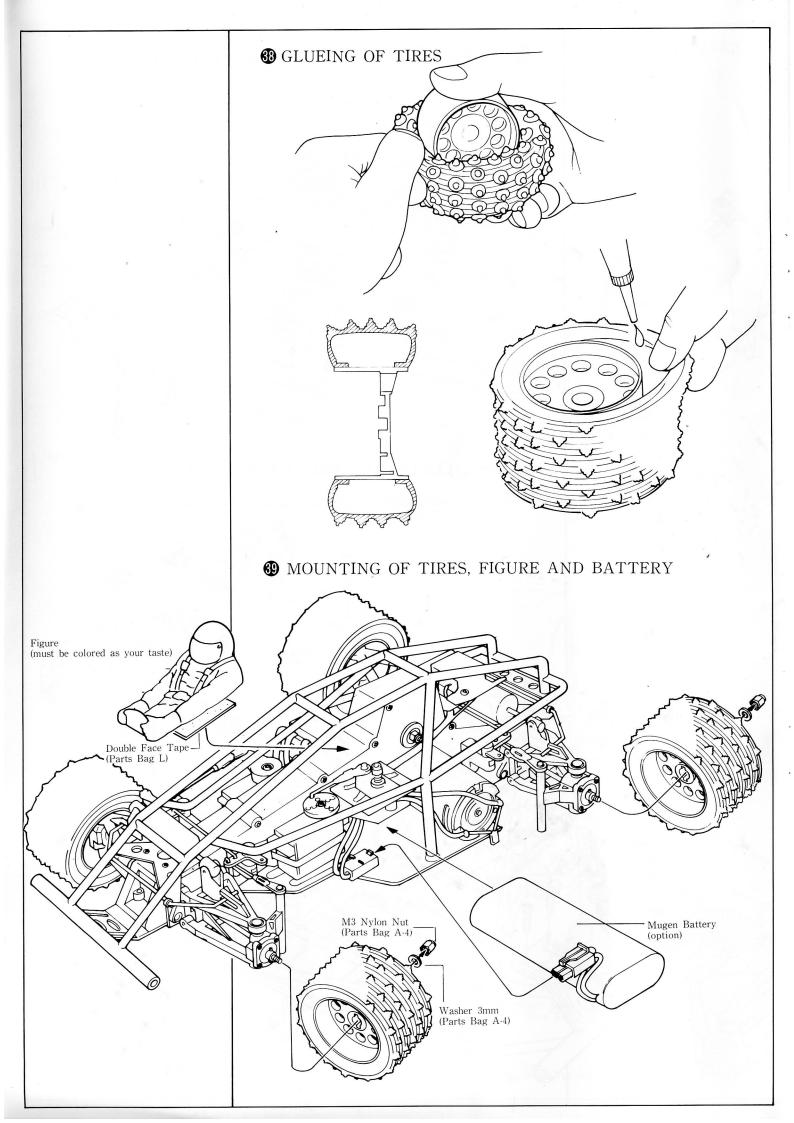
7 INSTALLATION OF Damper is hardened if the grub screw is tightened, and is softened if the screw is loosened. Proper damper function, matching to the road condition, has to be selected. Air Damper REAR AIR DAMPER (Tray) Grub Screw for Damper Adjustment (Parts Bag A-3) Damper Pivot Shaft (Parts Bag H) **3** (25) INSTALLATION OF REAR CENTER TIE ROD Center Tie Rod (Parts Bag B) E-Ring 1.5mm (Parts Bag A-4) Crank (Plastic Parts) Crank Bracket E-Ring 1.5mm (Parts Bag A-4) **②** INSTALLATION OF FRONT CENTER TIE ROD





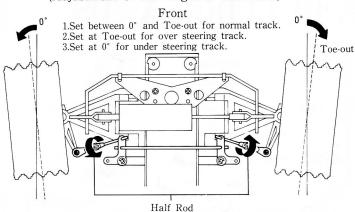




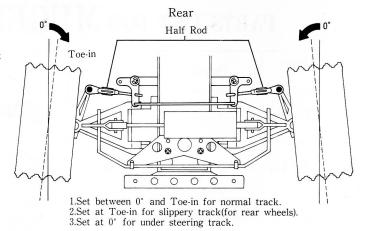




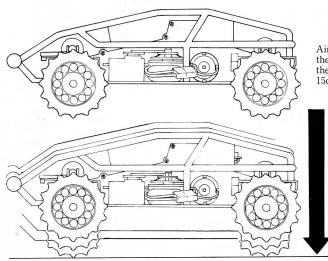
Adjustment of Toe Angle of Front Wheel (Adjustment of the length of Half Rod)



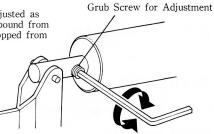
Adjustment of Toe Angle of Rear Wheel



Adjustment of Air Damper

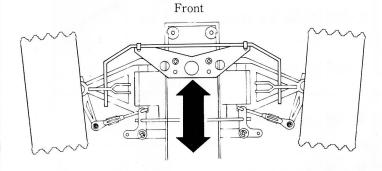


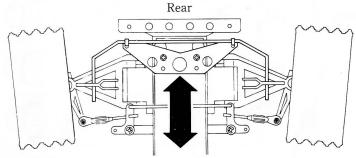
Air Damper should be adjusted as the car body does not rebound from the ground when it is dropped from 15cm high.



air pressure will be stronger when screw is turned clockwise.

Setting of Front/Rear Stabilzers

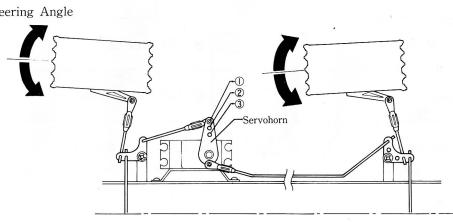




Adjustment of Steering Angle

Guidance of Servohorn Holes

- ① Maximum Steering
- Medium Steering Minimum Steering



PARTS LIST FOR MUGEN BULLDOG AWDS

Parts Nos.	Descriptions	Q'ty		Parts Nos.	Descriptions	Q'ty	
B-1M	Main Frame	1 pc.	OT S	X-13A	Wire for Antenna	2 pcs.	
B-1S	Side Plate	2 pcs.	0	B-14A	Half Shaft	2 pcs.	
B - 2	Under Guard	1 pc.		B-14B	Driving Belt Set	2 pcs.	
B - 3	Controller	Ass'y		B-14C	Center Differential Gear	Ass'y	
B-5A	Suspension Arm	1 Set.		B-14FR	Front/Rear Differential Gear	Ass'y	
B-5B	Pivot Pin	1 Set.		B-14J	Joint	4 pcs.	
B-811T	Pinion Gear	1 pc.		B - 17	Linkage Set	1 Set.	
12T	,	"		C - 18	Servo Guard	1 pc.	
13T	"	"		C-20 A	Battery Holder	1 Set.	8 <u>1</u>
14T	"	"		X -20 B	Nylon Tie Band	8 pcs.	
15T	"	"		X -20 C	Nylon Tie Band	8 pcs.	
.16T	"	"		X - 21	Double Face Tape	2 pcs.	1
B - 10	Tire/Wheel	2 sets		B - 25	Air Damper	2 pcs.	
B - 11	Axle Shaft	1 Set.		B - 26	Stabilizer Set	1 Set.	
B - 12	Oiless Metal	1 Set.	99	B-101	Roll Cage	1 Set.	
B-12S	Bearing	2 pcs.		B-100	Sticker Label	1 sheet	
X - 13	Antenna Set	1 set		B-OS	Screw Set	1 set	