

RADIO CONTROLLED .21ENGINE POWERED OFF-ROAD RECREATION VEHICLE
CAR CRUSHER

USA-1 NITRO CRUSHER

- REALISTIC SCALE MODEL OF EVERETT W. JASMER'S "USA-1" MONSTER TRUCK, THE MOST POWERFUL IN THE WORLD.
- SCALE CAR-CRUSHER PERFORMANCE WITH REAL ENGINE POWER AND SOUND.
- HUGE 6.5 INCH (165mm) TIRES CLIMB OVER HIGH OBSTACLES AND COPE WITH ROUGH TRACKS.
HIGH-GRIP TREAD PATTERN FOR TOP TRACTION.
- LING-TRAVEL ALL-INDEPENDENT SUSPENSION WITH DOUBLE WISHBONES AND DUAL SHOCKS TO SOAK UP THE BUMPS AND KEEP CONTROL.
- MANY REALISTIC CHROME, NO "A" - FINISH PARTS AND DECORATIVE SELF-ADHESIVE LOGO DECALS FOR SCALE APPEARANCE.
- TWO-CHANNEL W/TWO SERVOS, 21 SIZE ENGINE, RADIO CONTROL SET (NOT INCLUDED)



KYOSHO
THE FINEST RADIO CONTROL MODELS

KIT NO.3241

BEFORE ASSEMBLY

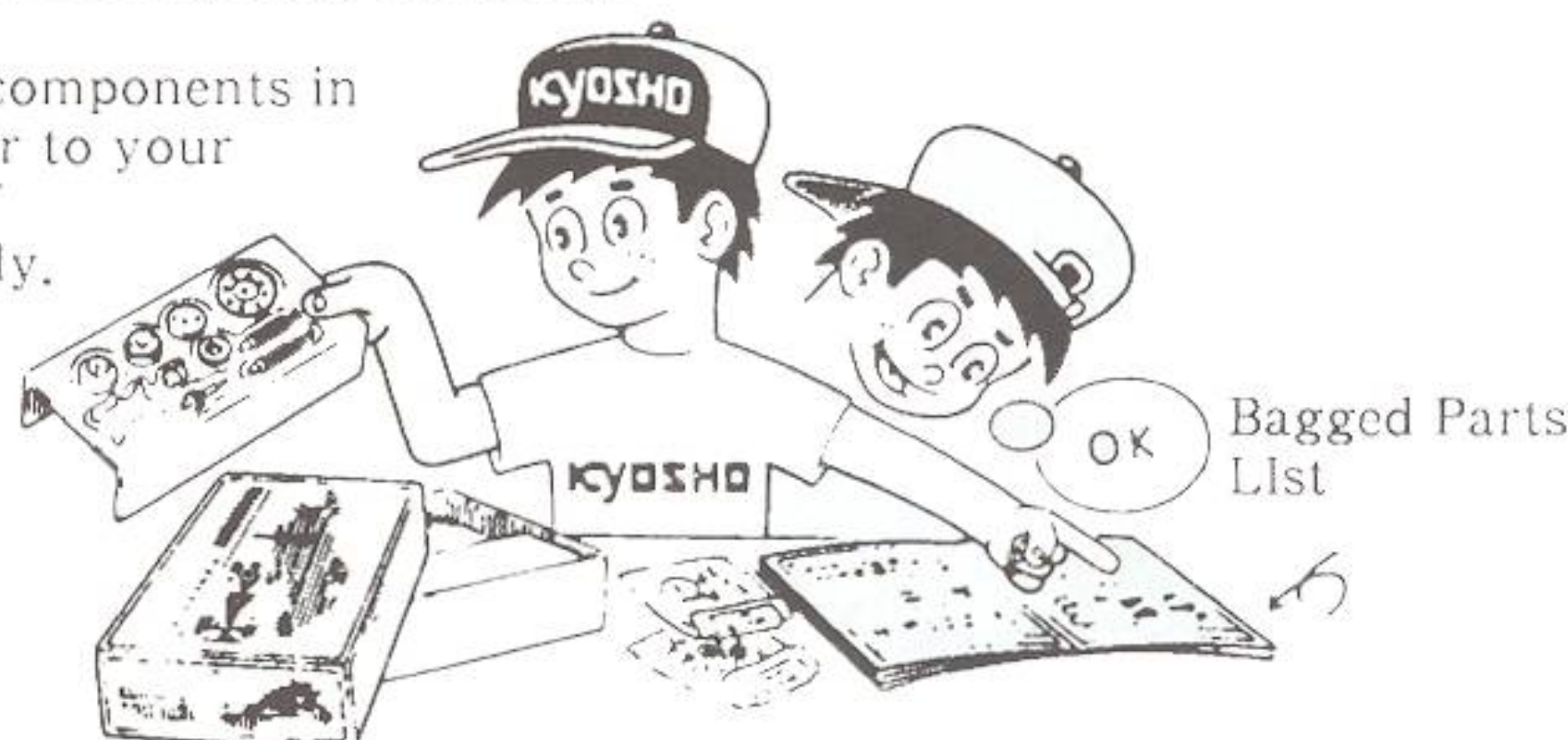
○ Read the instruction carefully.

You can assemble the kit more easily, if you have grasped the general idea of steps and structure beforehand by reading it through to the end.

○ Check the parts in the kit.

Check to see if all the parts are correctly bagged as they are listed in the "Bagged Parts List" (page 3, 4). Your thorough understanding of the assembly will enable you to build the kit without any difficulty.

Check the components in the kit prior to your startings of the assembly.



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

○ Learn the marks described in the instruction.

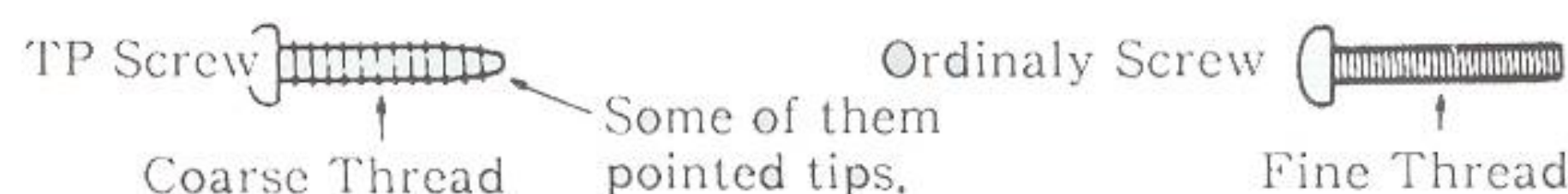
SW CEMENT ... Place to put some locktite,
(It will prevent the screws and nuts to get loosen by vibration while running.)

GREASEPoint where grease should applied
(It will reduce friction and assure smooth movements.)

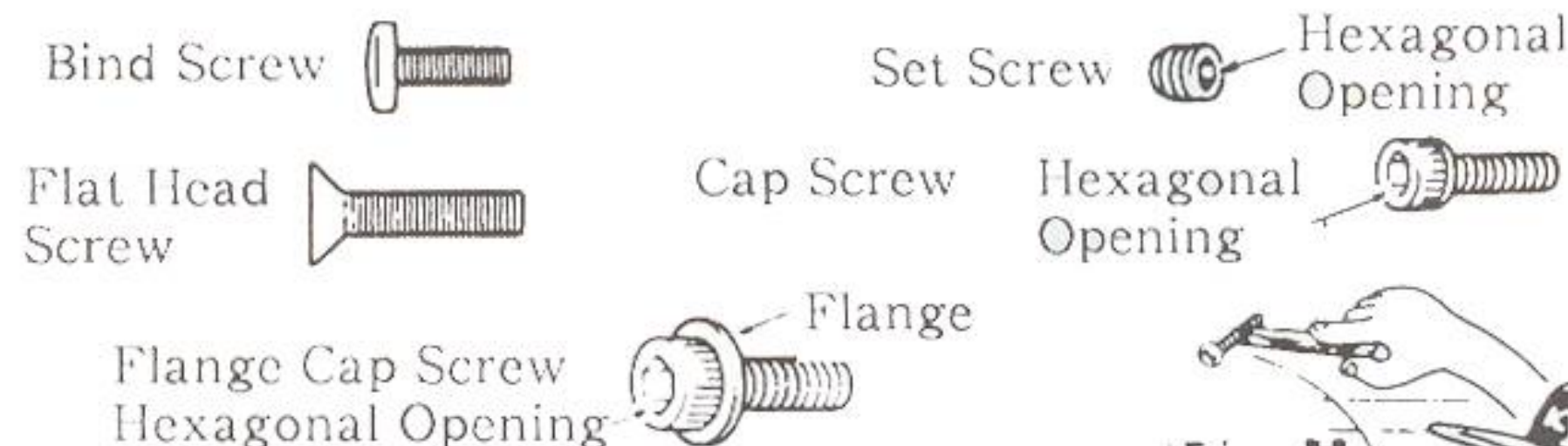


○ Be well aware of the different types of screws.

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



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



○ Pick up the correct parts and screw. Compare the shape and size of small parts, such as screws, nuts, and washers.

○ Be sure about the location and direction of parts to install.

Double-check the location and direction of parts with the illustration before installation. When necessary, assemble the parts themselves tentatively before proceeding to the next step.

○ Do not tighten the self-tapping screw too tight.

Do not use excessive force when tightening the self-tapping screws, or you may strip the thread in the plastic. It is recommended to stop tightening it when the thread part on the screw goes into the plastic part and you feel some resistance from the tightening.

Over tighten may strip the thread in the plastic.

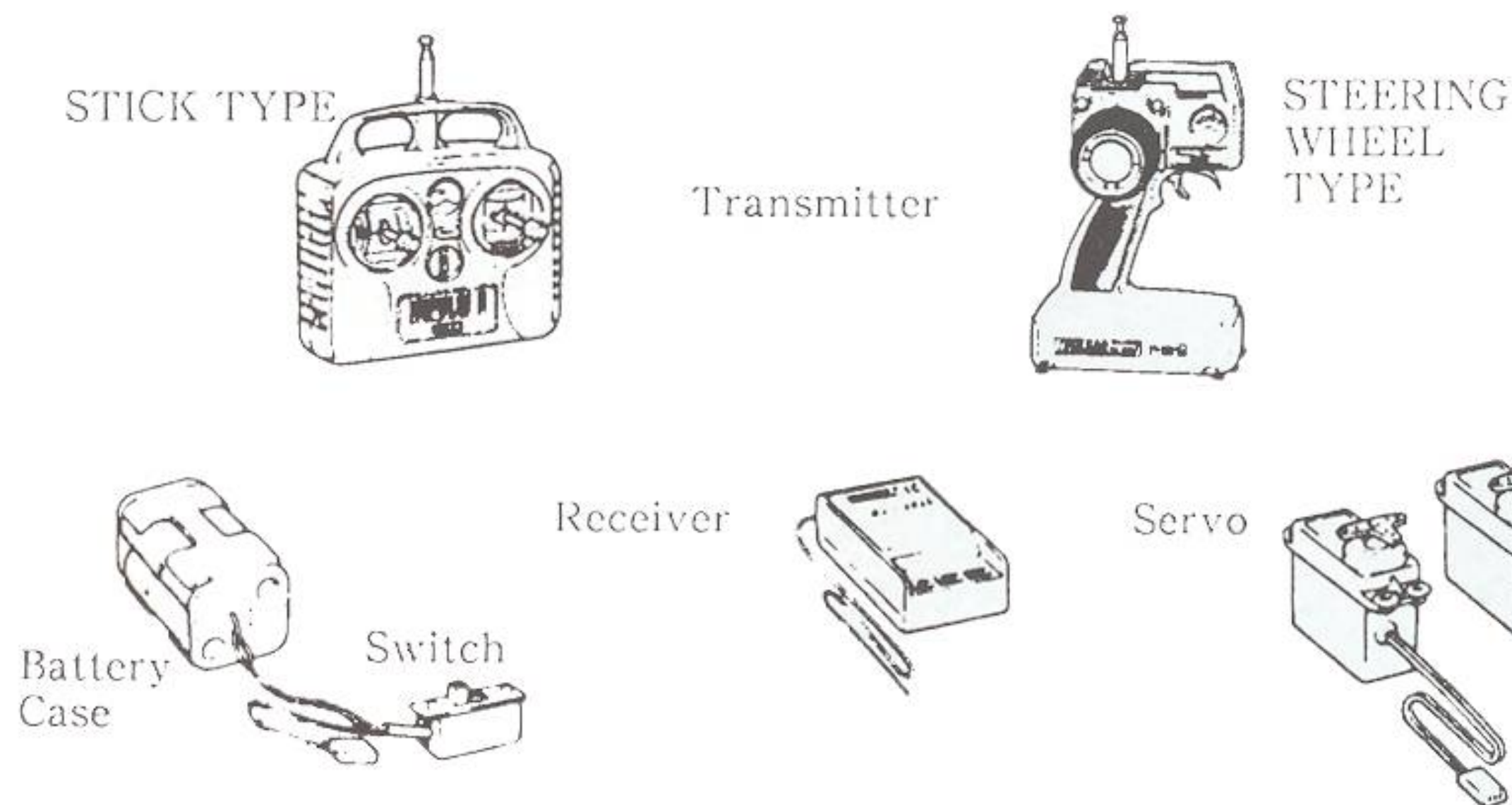


THINGS NEED BESIDES THE KIT

< 2 Channel Radio System >

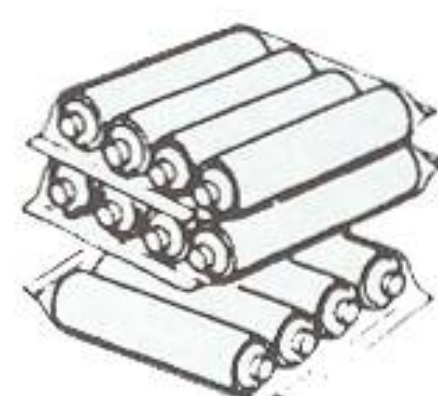
* Attention . . This servo for steering should be used the high-torque type.

Two types of radio control set are on the market, the stick and the steering wheel type. Choose which ever you like.



< Battery for Radio System >

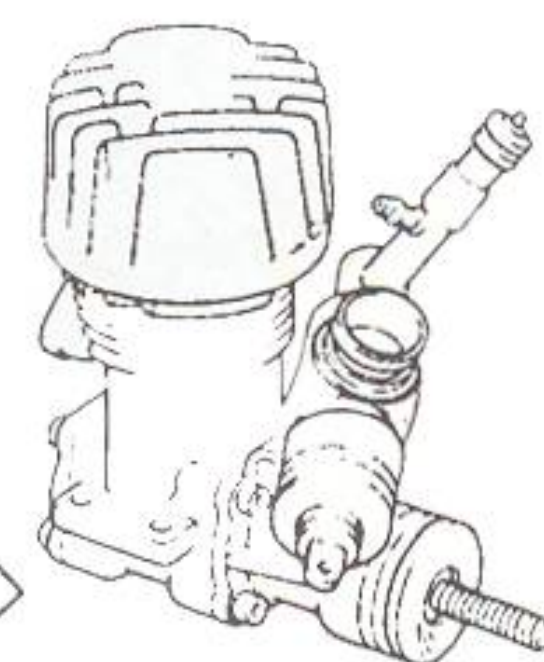
For Transmitter . . . 8 pcs.
For Receiver . . . 4 pcs.



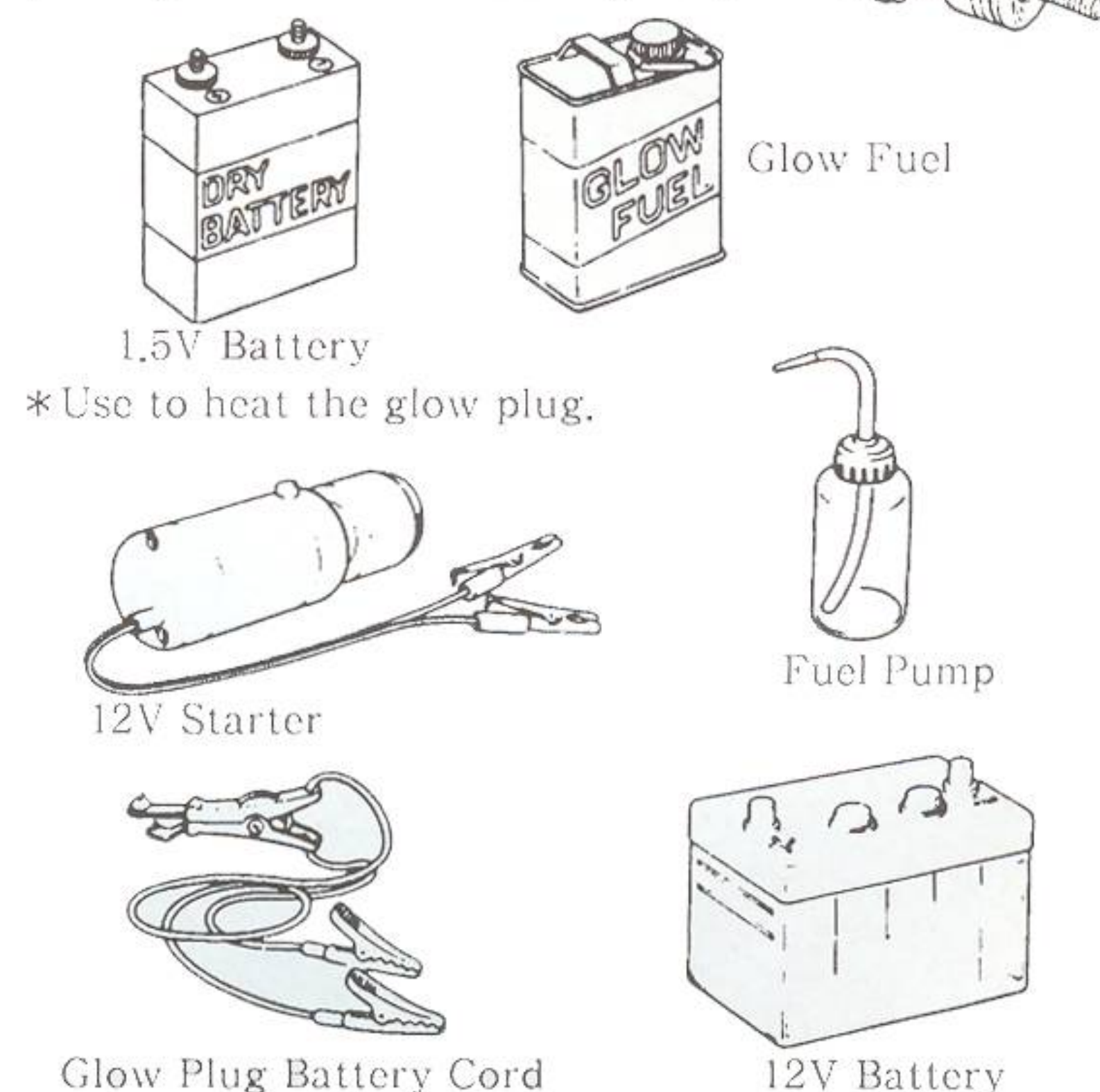
< Engine >

The following 21 size engines can be used for this model car.

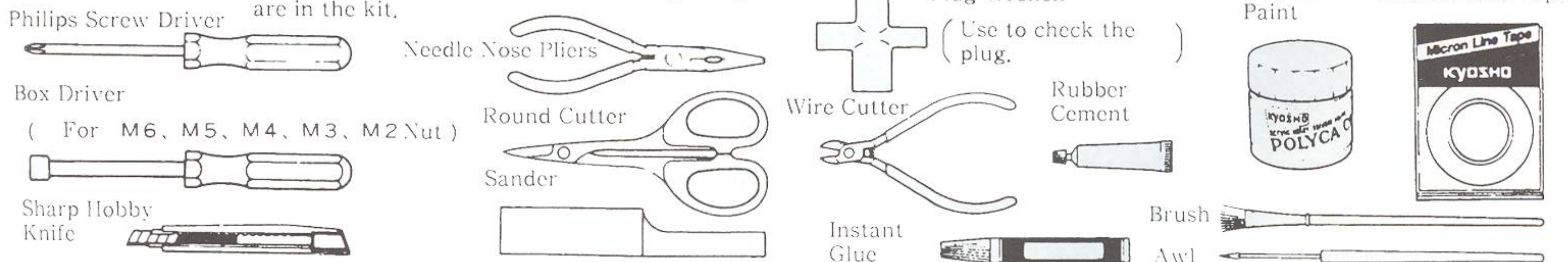
OS-21 RFB
ENYA 21 CXL



< Things need to start the engine >



< Tools Required > Hex Wrench, Grease and Screw Locking Compound are in the kit.

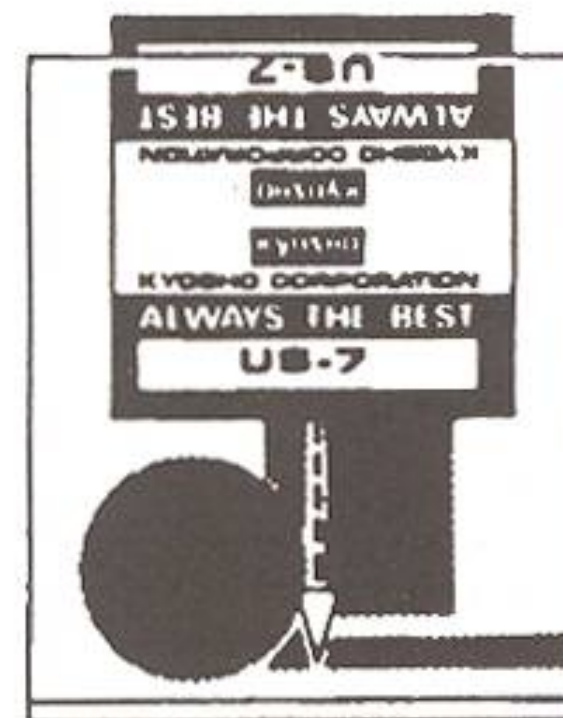


LIST OF BAGGED PARTS (1)



● DO NOT THROW AWAY
A BAG HEADER!!

The header is the only thing to rely upon
when looking for a part.
Do not discard until you finish the
assembly.



or



Keep it
in the bag.

Affix it on the
bag with tape.

Bag No.	Key #	Parts Name	Q'ty	Step
US-1	1	Shock Piston	8	1
	2	E Ring (E-2.5)	16	1
	3	Spring Holder	8	2
	4	Spring Adjuster	8	2
	5	Shock Ring	8	2
	6	Shock Spring	8	2
	7	Shock Case	8	1
	8	Shock End	8	1
	9	Pressure Top	8	2
	10	Shock Cap	8	2
	11	Shock Shaft	8	1
	181	Shock Oil	2	2
US-3		Center Diff. Assembly	1	Assembly
		Front Gear Box Assembly	1	"
		Rear Gear Box Assembly	1	"
US-4 Plastic Parts	★ 12	Shock Pivot (1)	1	8
	★ 13	" (2)	1	8
	★ 14	" (3)	1	5
	★ 15	" (4)	1	5
	★ 16	Front Body Mount	2	7
	★ 17	Rear "	2	4
	18	Rear Sus. Holder	1	3
	26	Rear Sus. Arm	2	4
	27	Rear Hub (R)	1	4
	★ 29	Upper Sus. (A)	2	3
	★ 30	" (B)	4	3 7
	★ 41	Shock Bush	8	5 8
	43	φ 6.8 Ball End	8	5 11
	52	Hub Carrier (R)	1	7
	53	" (L)	1	7
	57	Center Diff. Housing (A)	1	9
	58	" (B)	1	9
	★ 77	Radio Plate	1	12
	★ 79	Servo Fixing Post	4	12
	85	Fuel Tank Pivot	1	13
	86	Bumper	1	14 (Cutting)
	100	Servo Fixing Stay (A)	1	16
	101	" (B)	1	16
	133	Front Sus. Upper Holder	1	6
	136	Servo Spacer	2	16
	138	Front Sus. Arm	2	7
	141	Rear Hub (L)	1	4
	★ 144	Upper Sus. (C)	2	7
US-5	23	Joint	1	3
	32	Rear Wheel Shaft	2	4
	33	Swing Shaft	2	4
	34	Rear Shock Stay	1	3
	35	φ 3×27 Shaft	2	4
	36	φ 3×44 Shaft	4	3 4
	37	φ 4×77 Shaft	2	4

Bag No.	Key #	Parts Name	Q'ty	Step
US-5	39	φ 3 Stopper	2	4
	40	Rear Gear Cover	1	3
	42	φ 6.8 Ball	1	5
	55	M 3 Pivot Ball	4	5
	73	Tie Rod (A)	1	5
	81	φ 8×16 Bushing	4	4
US-6	23	Joint	1	6
	35	φ 3×27 Shaft	2	7
	36	φ 3×44 Shaft	4	7
	39	φ 3 Stopper	2	7
	49	Front Shock Stay	1	6
	50	Knuckle Arm (R)	1	7
	51	" (L)	1	7
	54	King Pin	4	7
	55	M 3 Pivot Ball	4	8
	67	Front Gear Cover	1	7
	116	Universal Joint	2	7
US-7	147	φ 4×64 Shaft	2	7
	42	φ 6.8 Ball	6	11
	44	φ 8 Aluminum Collar	2	17
	59	Disk Brake	1	9
	60	Brake Pads	2	9
	61	Brake Cam	1	9
	62	Brake Stopper	1	9
	63	Brake Lever	1	9
	64	Linkage Guide	1	11
	65	Servo Saver Shaft (A)	2	11
	66	" (B)	1	Assembly 11
	68	Servo Saver Spring	1	
	70	Servo Saver Horn (B)	1	
	71	" (C)	1	
	69	" (A)	1	11
	73	Tie Rod (A)	2	11
	74	" (B)	1	11
	75	φ 6 Aluminum Collar	2	11
	82	Center Shaft	2	13 14
US-8	84	Torque Rod Pivot	1	13
	115	Brake Lining	2	9
	155	φ 5×10 Bearing	2	9
	156	φ 5×10 Collar	1	9
	157	Counter Gear	1	9
	158	Counter Gear Mount	1	9
	159	Counter Gear Shaft	1	9
	38	E Ring (E-3)	1	15
	78	Switch Boot	1	12
	83	Mount Plate	2	16
	87	Manifold	1	15
	88	Engine Mount	1 set	15

LIST OF BAGGED PARTS (2)

Bag No.	Key #	Parts Name	Q'ty	Step
US-8	89	Fly Wheel	1	15
	90	Clutch Pin	2	Assembly
	91	Pilot Shaft	1	16
	92	Clutch Shoe	2	16
	93	Clutch Spring	1	Assembly
	94	Clutch Bearing Case	1	15
	95	Clutch Rollar	8	Assembly
	96	Clutch Bell (13T)	1	15
	102	Tank Cap	1	10
	103	Tank Seal	1	10
	104	Fuel Tank	1	10
	105	Aluminum Pipe	1	10
	106	Rubber Bush	1	10
	107	Fuel Tube	1	10
	109	Steering Rod	1	17
	110	φ 2 Stopper	5	13
	111	Engine Control Spring	1	13
	112	Linkage Guide (B)	1	13
	139	Silicone Grease	1	
	140	Screw Locking Compound	1	
	142	Engine Control Rod	1	13
	146	Air Cleaner	1 set	15
	153	Brake Rod	1	13
		φ 5 X 10 Washer	1	15
		φ 6 X 18 Washer	1	15
US-9	76	Antenna Pipe	1	12
	80	Strap (L)	1	12
	98	Muffler (A)	1	10
	99	• (B)	1	10
	108	Plate Joint	1	17
	117	φ 2.6 X 16 Shaft	4	20
	118	Wheel Stopper	4	20
	119	O Ring (L)	4	20
	134	Strap (M)	3	15 10
	135	Rear Shock	1	13
	148	φ 38 Muffler Baffle	1	10
	151	Radio Cover	1	12
	★160	Rear Shock (Plate)	1	20
	★161	Front Shock (Plate)	1	20
	★162	Front Grill	1	20
	★163	Front Grill Stopper	2	20
	★164	Headlight Lens (R)	1	20
	★165	• (L)	1	20
	★166	Position Light Lens	2	20
	★167	Door Mirror (R)	1	20
	★168	• (L)	1	20
	★169	Door Mirror Stopper	2	20
	★170	Roll Bar (F)	1	20
	★171	• (R)	1	20
	★172	Roll Bar Back Stay (R)	1	20
	★173	• (L)	1	20
	★174	Fog Light Cover	5	20
	★175	Fog Light	1	20
	★176	Dummy Air Cleaner Cover	3	20
	★177	Dummy Air Cleaner	3	20
	★178	Carburetor	1	20
	179	Double Sided Tape	1	20
	183	φ 8 X 16 Washer	4	20

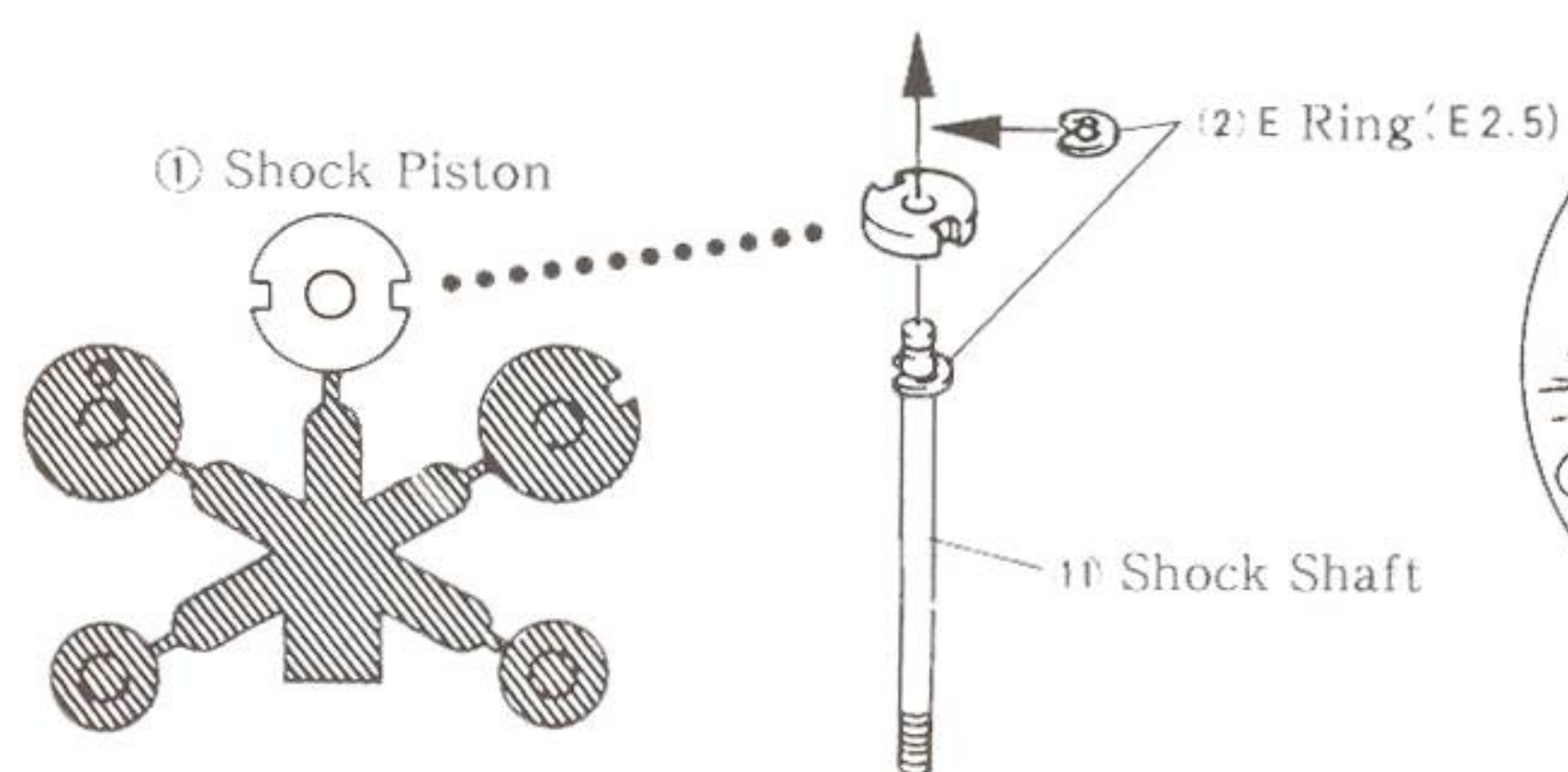
Bag No.	Key #	Parts Name	Q'ty	Step
BOX	113	Wheel	4	19
	114	Tire	4	19
SMALL BOX	121	Body	1	21
	143	Main Chassis	1	9
INSTRUCTION	145	Decal	1	25
	152	Side Guard	2	20
	180	Mirror Seal	1	25
		Instruction	1	
US-2	2	E Ring (E-2.5)	16	3 4 7
	38	• (E-3)	10	4 7
	97	• (E-4)	1	9
	120	Wheel Stopper Bolt	4	20
	122	Body Pin	8	27
	184	φ 5 Lock Ring	6	20
	31	M5 X 35 Shaft	4	3 7
		M3 X 8 T P Bind Screw	11	
		M3 X 10 •	19	
		M3 X 15 •	10	
		M4 X 15 •	16	
		M4 X 20 TP Flat Head Screw	6	
		M4 X 25 •	4	
		M2.6 X 8 TP Round Head Screw	10	
		M2.6 X 16 •	2	
		M2.6 X 18 •	6	
		M3 X 12 Flat Head Screw	2	
		M3 X 18 Round Head Screw	2	
		M3 X 10 Bind Screw	1	
		M3 X 15 •	2	
		M3 X 25 •	2	
		M4 X 8 •	9	
		M4 X 10 •	2	
		M4 X 15 •	2	
		M3 X 10 Cap Screw	5	
		M3 X 18 •	10	
		M3 X 25 •	1	
		M4 X 10 Flange Cap Screw	4	
		M3 X 3 Set Screw	11	
		M4 X 12 •	4	
		M5 X 4 •	2	
		M2 Nut	1	
		M3 Nylon Nut	12	
		M3 Flange Nut	10	
		M4 •	2	
		M5 •	1	
		M3 Washer	14	
		M5 X 10 Washer	1	
		M5 X 12 •	2	
		Hexagonal Wrench (1.5)	1	
		• (2)	1	
		• (2.5)	1	
		• (3)	1	

(1) The key numbers with ★ indicated the plastic parts on a runner.

(2) There are spare screws to assemble.

1 ASSEMBLY OF OIL SHOCK These parts are in the bag (US-1) .

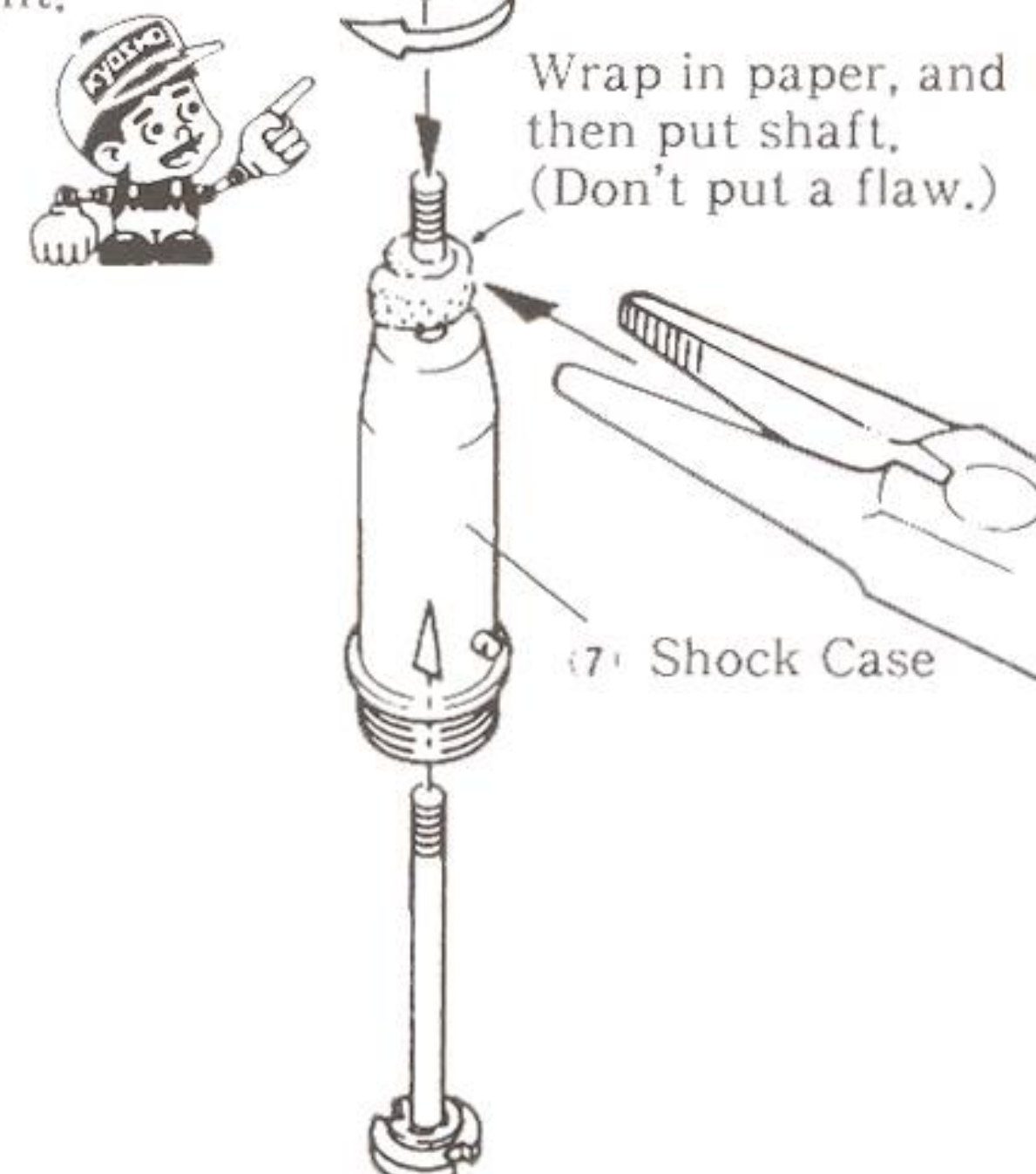
STAGE 1 Assemble 8 pieces.



Don't use the shaded area.

STAGE 2

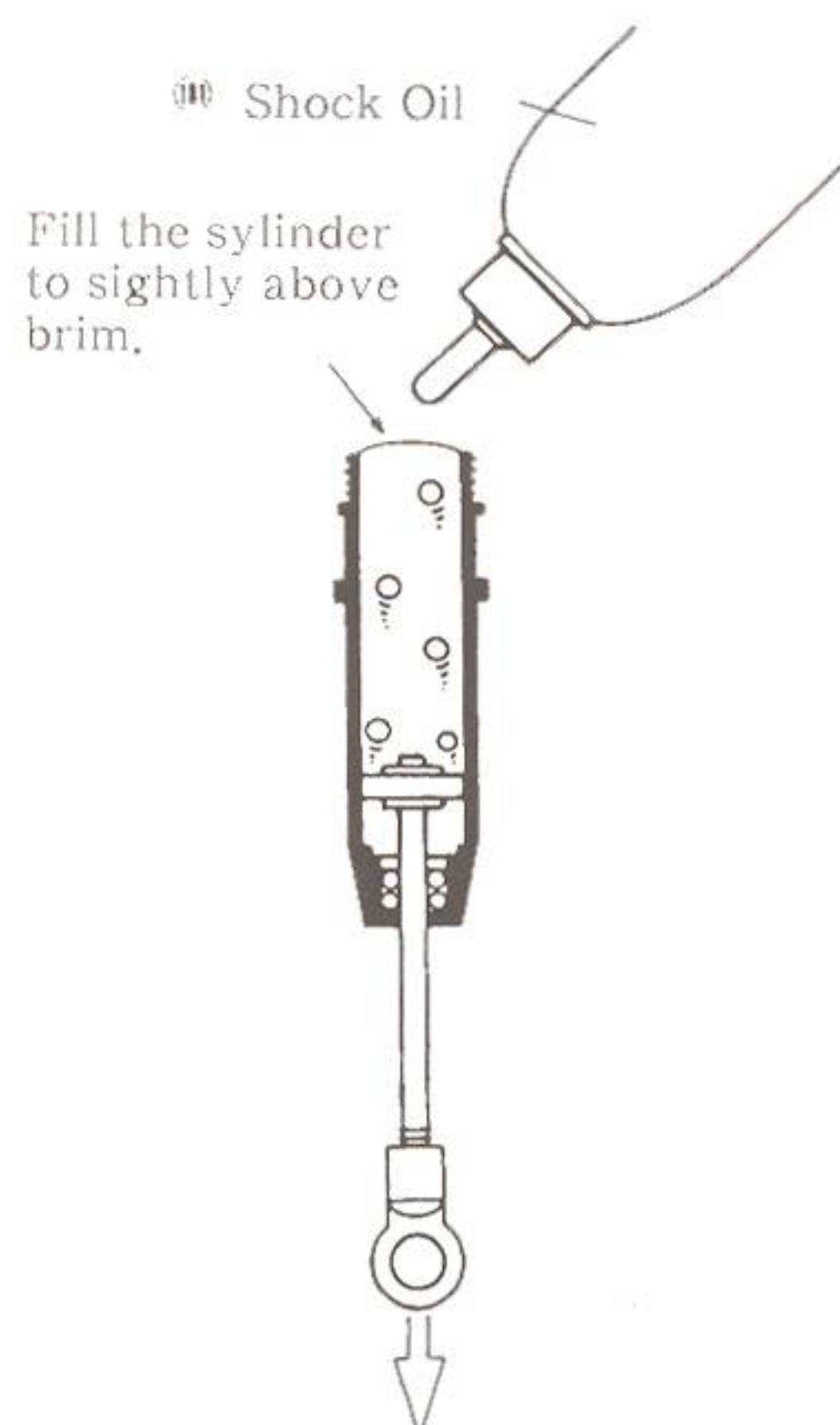
Be careful not to be tighten too tight.



2 FILLING SHOCK OIL These parts are in the bag (US-1) .

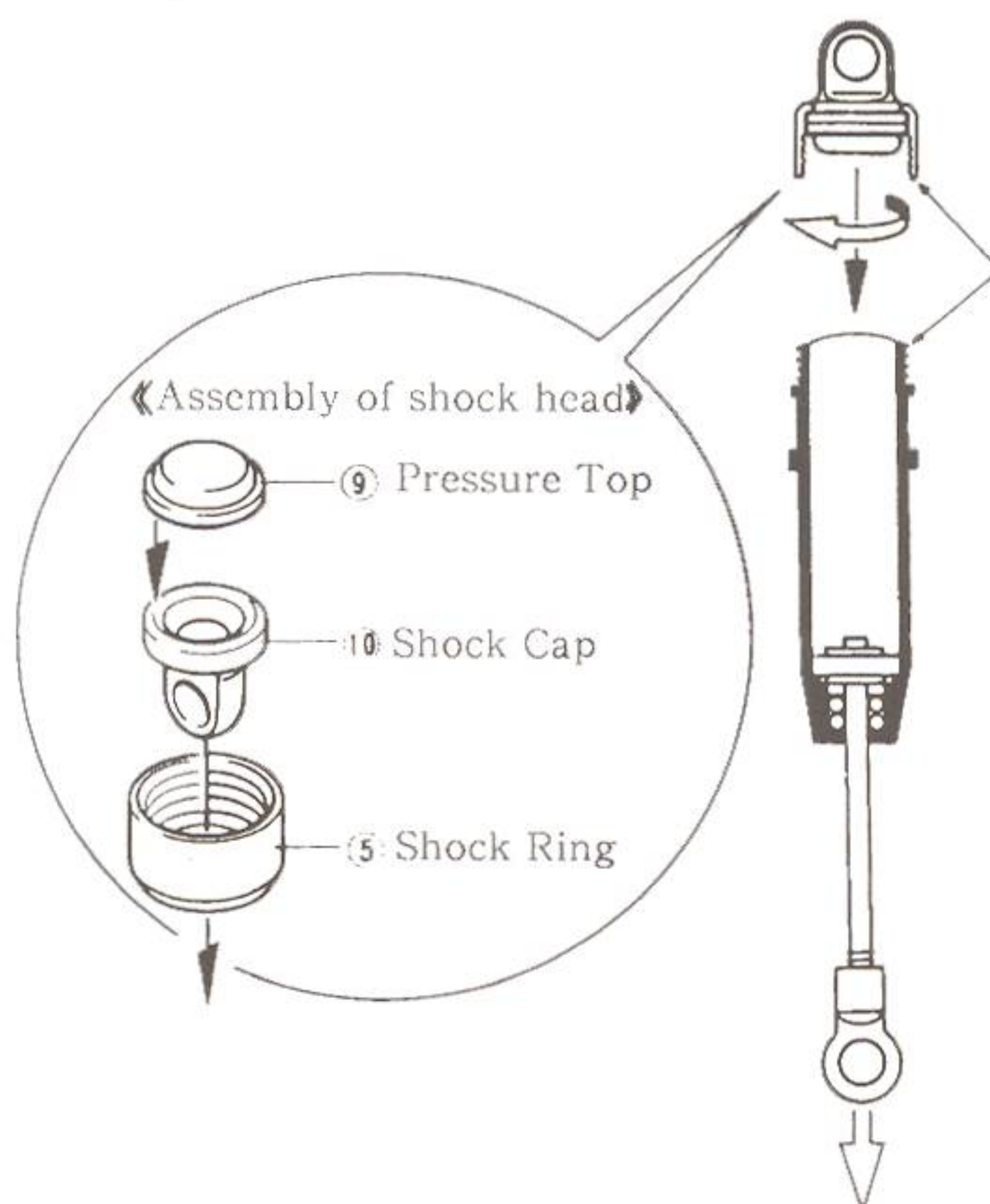
STAGE 1

Pull down the piston to the bottom and pour oil slowly. Then move the piston up and down gently to get rid of air bubbles.



STAGE 2

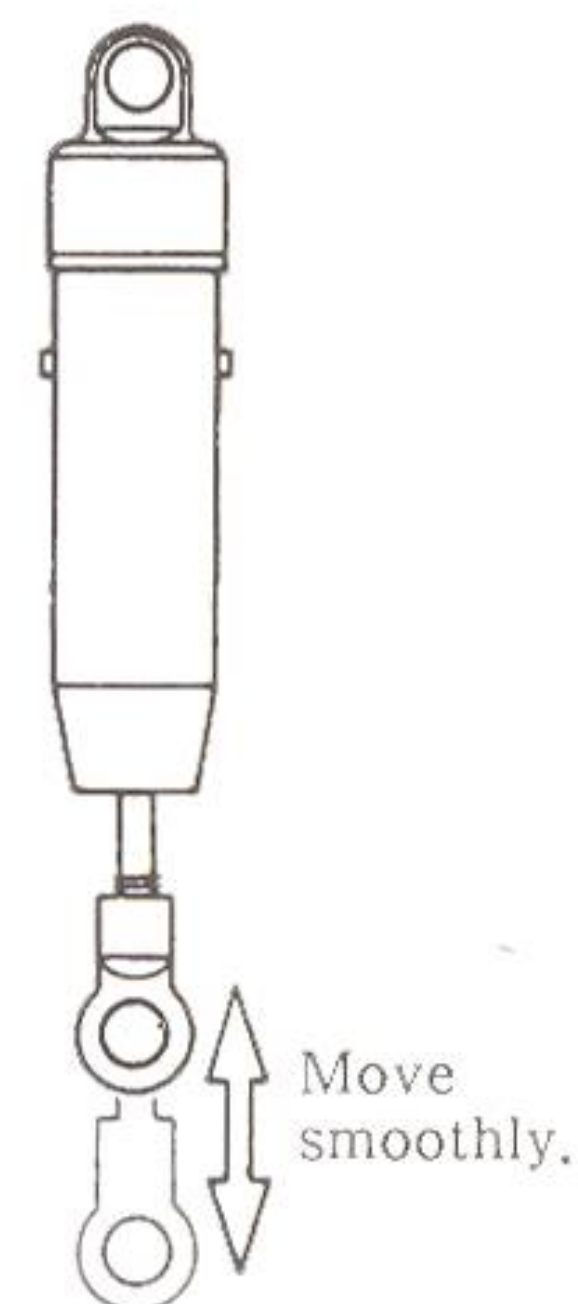
Keep the position in the lowest position and tighten the shock cap gradually, then excessive oil will spill over.



In the end, tighten it firmly so that the oil will not leak out.

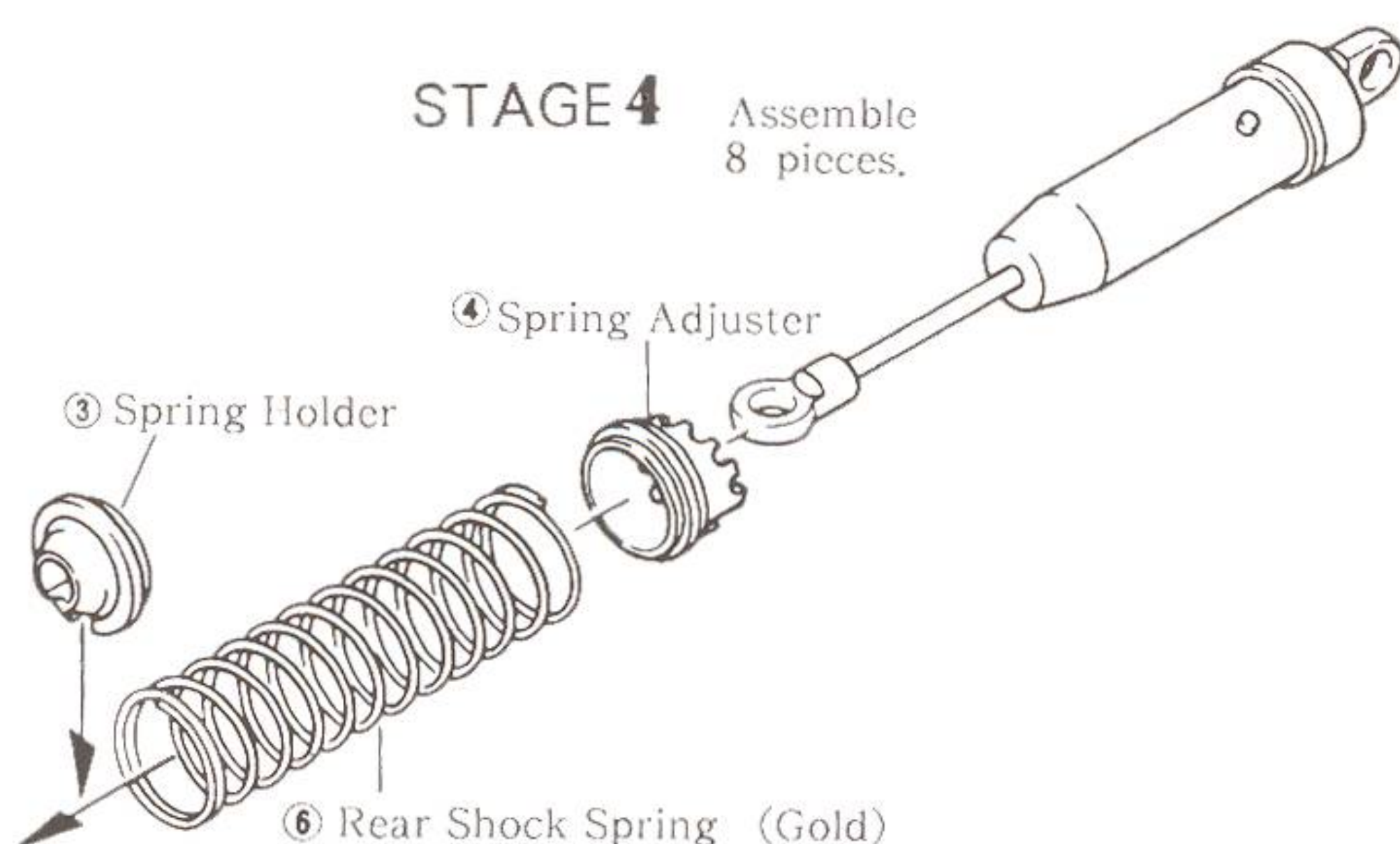
STAGE 3

Confirm that it will work smoothly by moving the piston up and down.

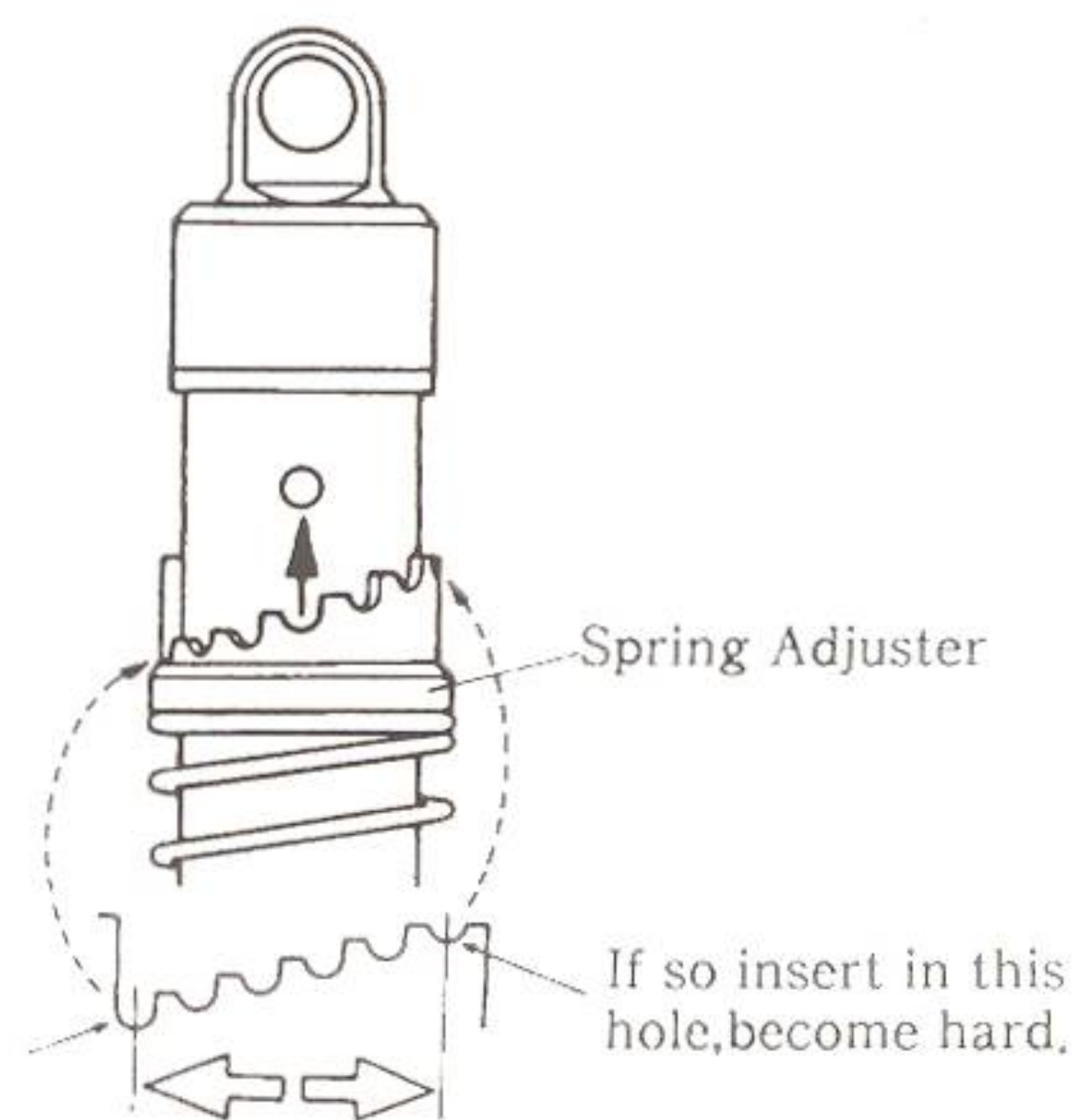


- Spring tension can be adjusted by high simply changing the hole position of the spring adjuster.

STAGE 4 Assemble 8 pieces.



If so insert in this hole, become soft.

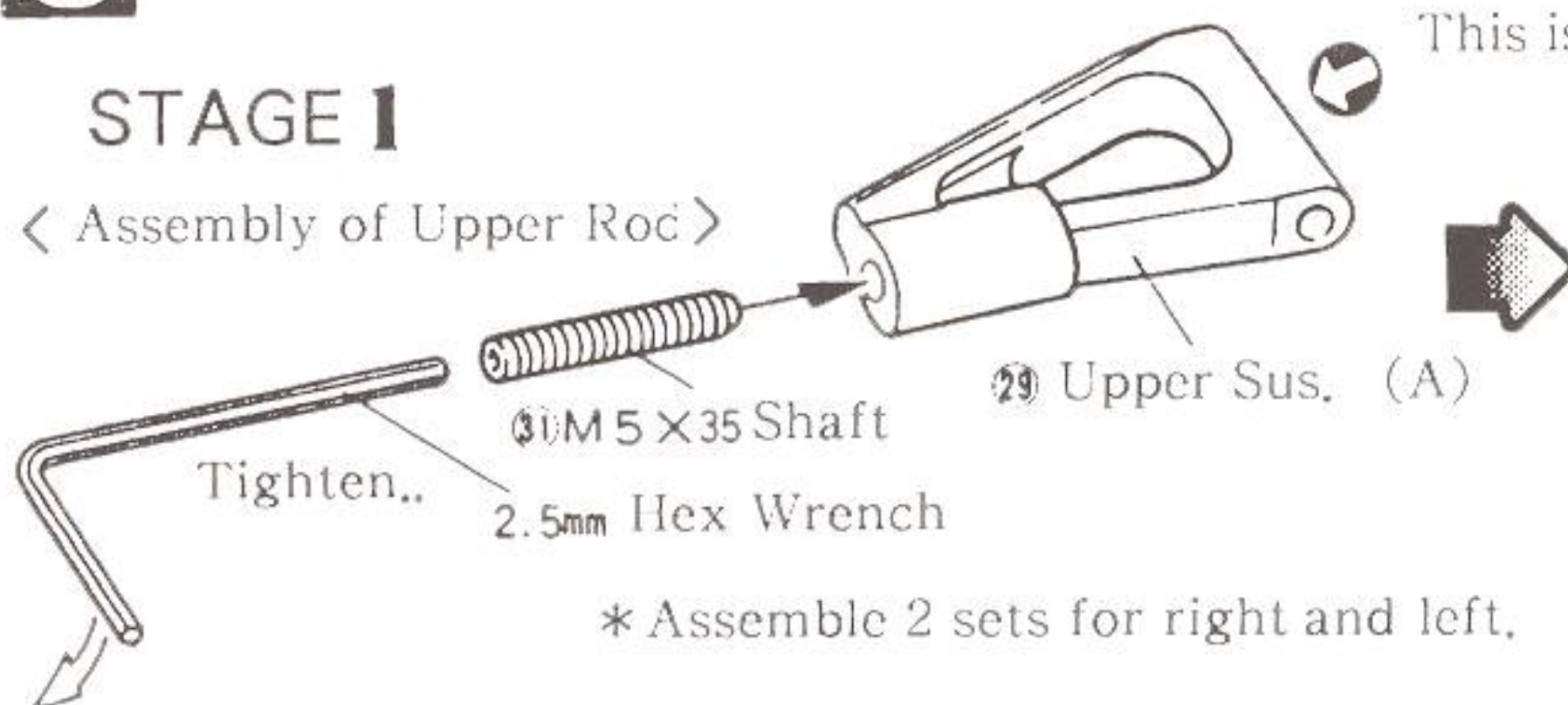


3 INSTALLATION OF REAR GEAR BOX PARTS

These parts are in the bag (2, 3, 4, 5) .

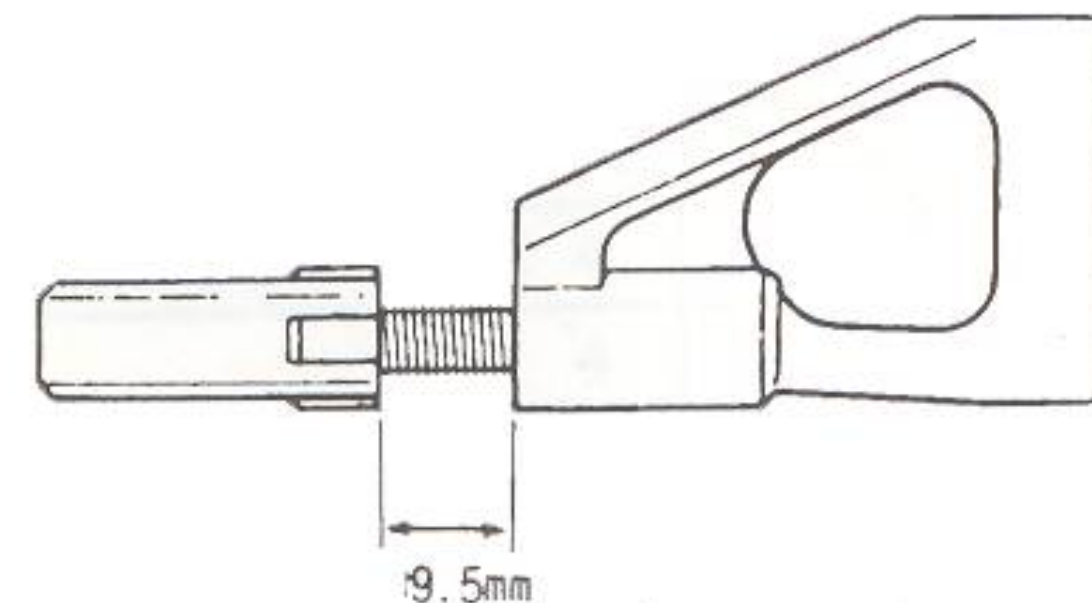
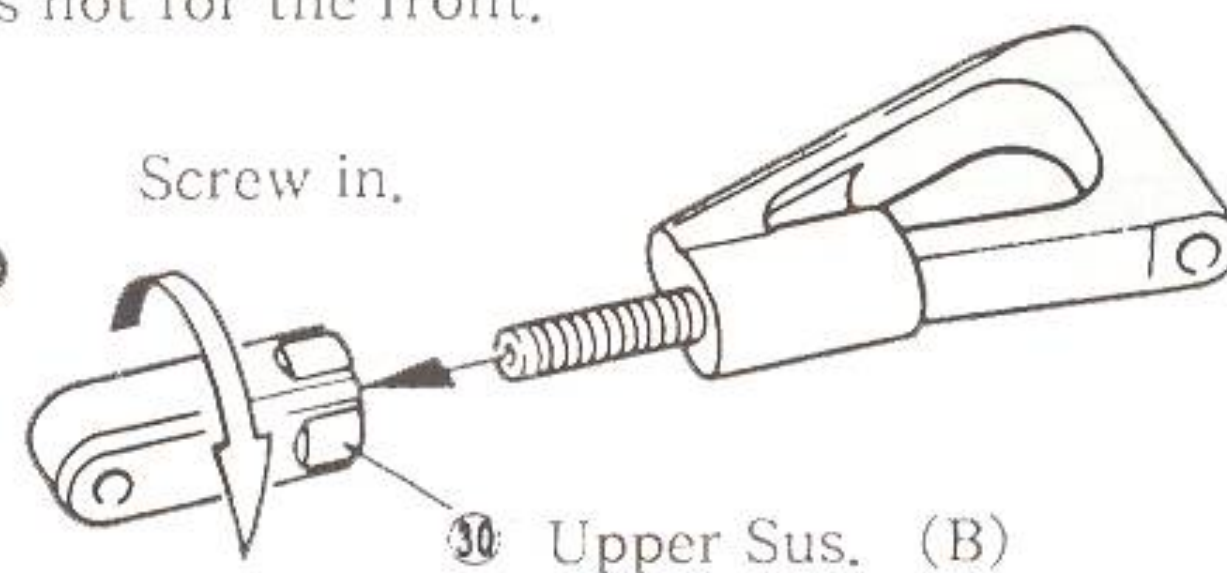
STAGE 1

< Assembly of Upper Rod >



This is not for the front.

Screw in.

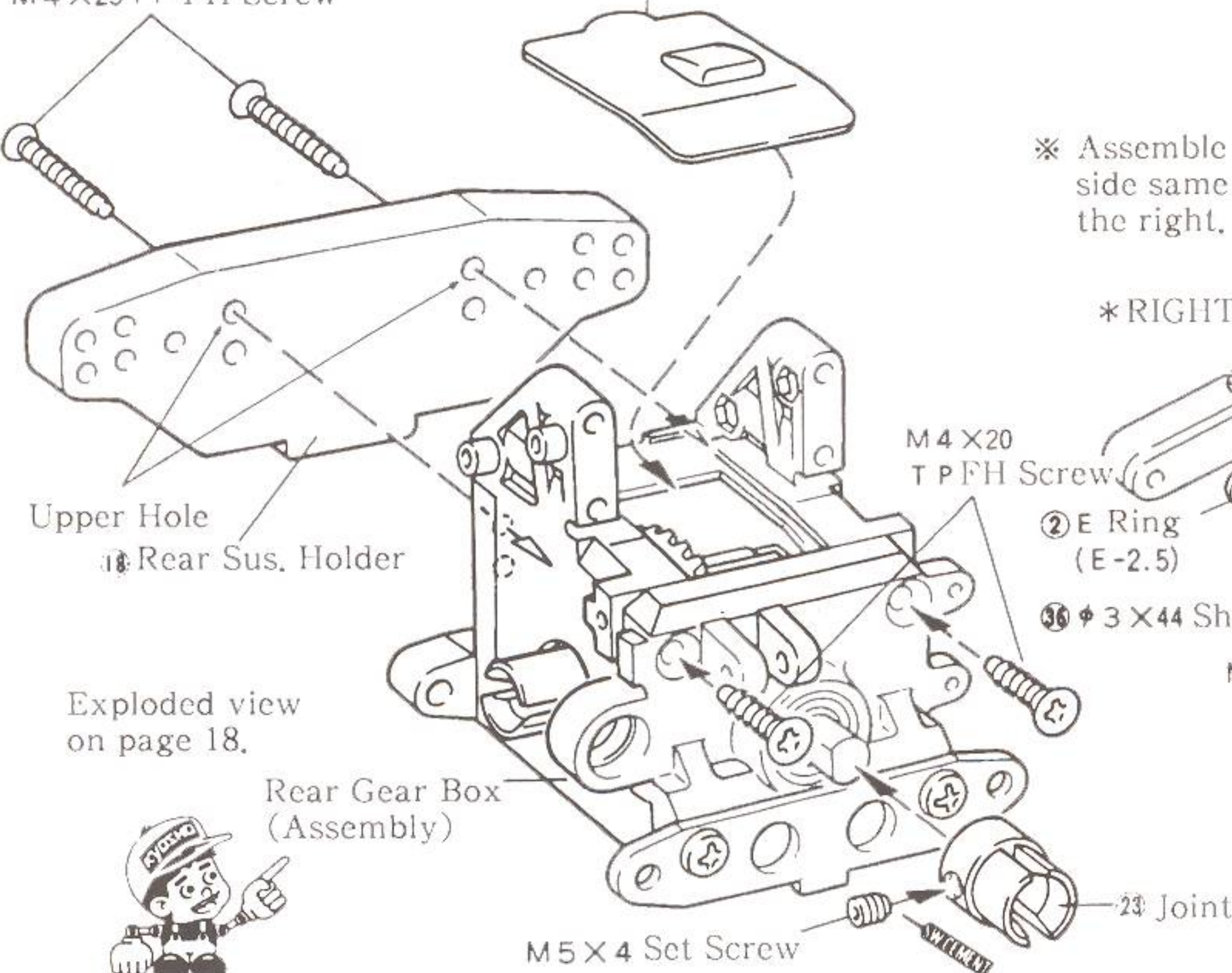


* Refer to Page 19 (actual size drawing) .

STAGE 2

M4 X 25 T P FH Screw

40 Rear Gear Cover



STAGE 3

34 Rear Shock Stay

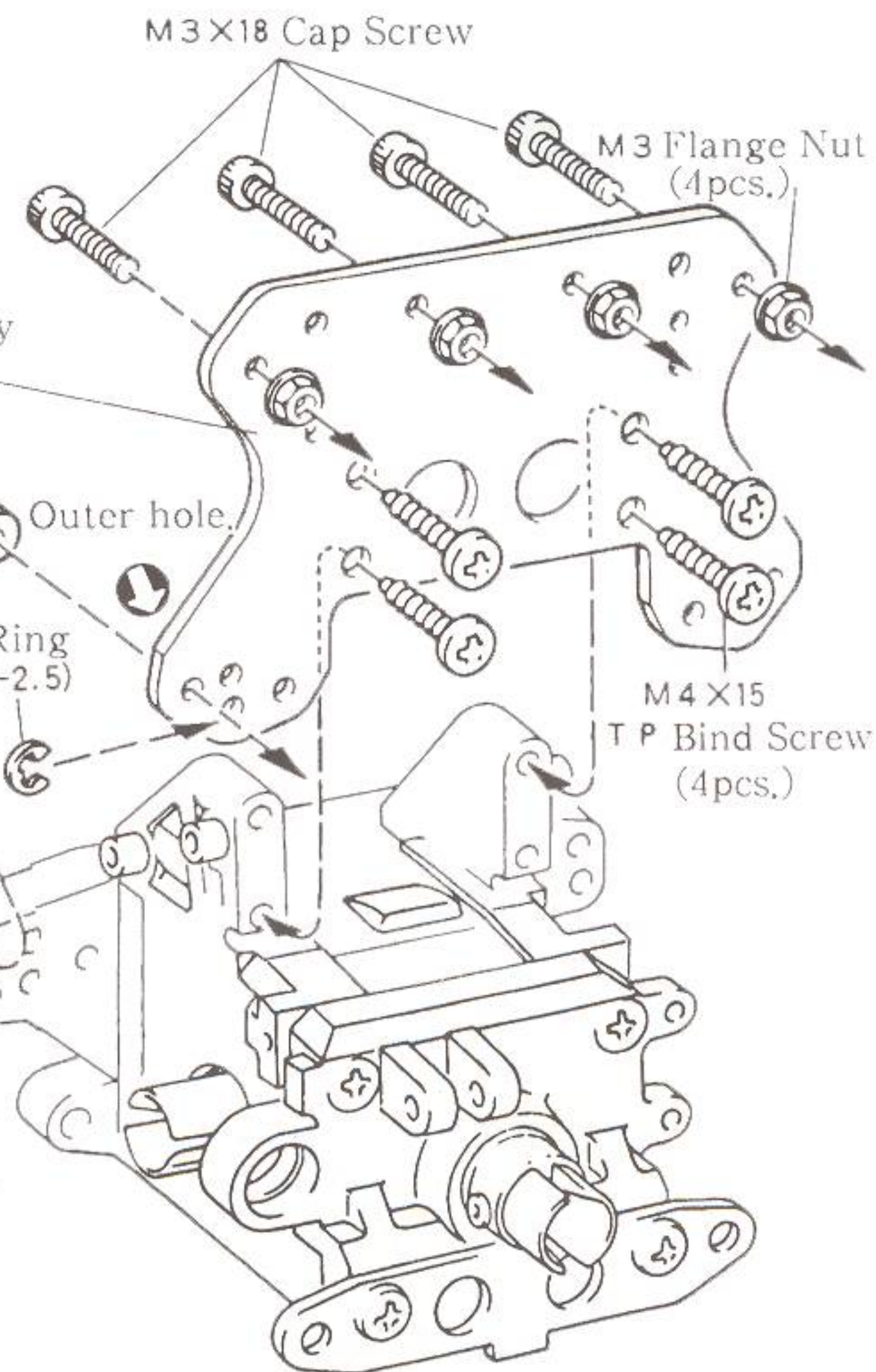
* Assemble the left side same as the right.

* RIGHT *

M4 X 20 T P FH Screw
② E Ring (E-2.5)
36 3 X 44 Shaft

M3 Washer

Upper and Outer hole.

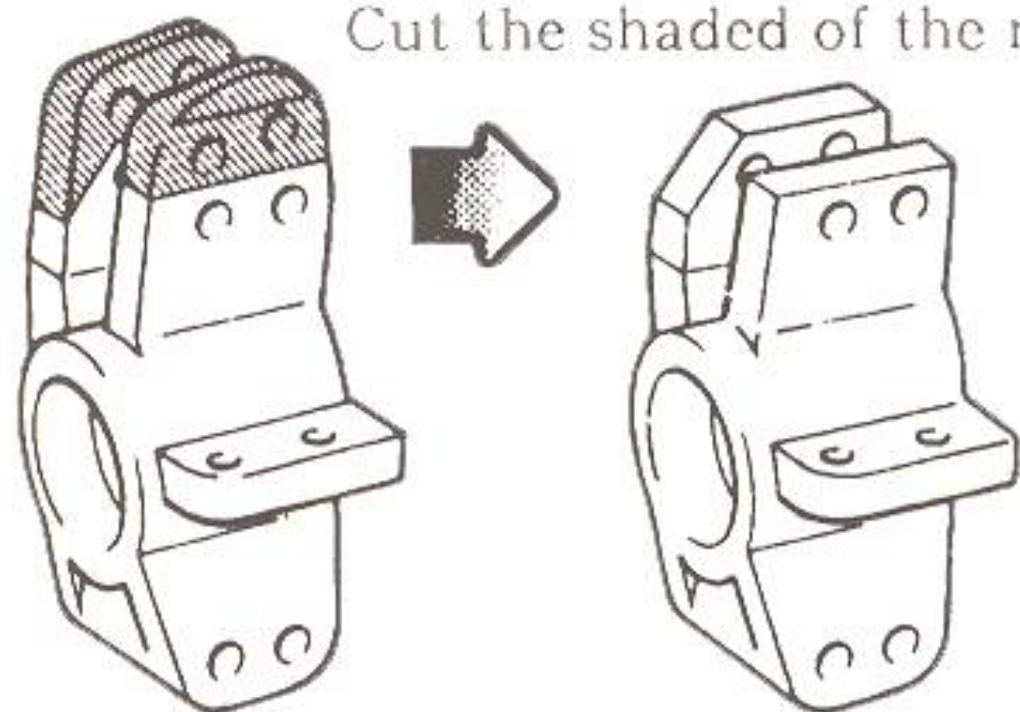


4 INSTALLATION OF REAR SUSPENSION ARMS

* These parts are in the bag (US-2, 4, 5) .

STAGE 1

Cut the shaded of the rear hub (R) and (L) .



STAGE 2

* Assemble the left side same as the right.

* RIGHT *

35 3 X 27 Shaft

27 Rear Hub (R)

39 3 Stopper

Inside hole.

M3 X 3 Set Screw

81 8 X 16 Busing

Inside Hole.

81 8 X 16 Busing

② E Ring (E-2.5)

36 3 X 44 Shaft

M3 Washer

② E Ring (E-2.5)

33 Swing Shaft

For Rear.

There are 7 holes.

17 Rear Body Mount

38 E Ring (E-3)

A

B

M3 X 10 T P Bind Screw

A

B

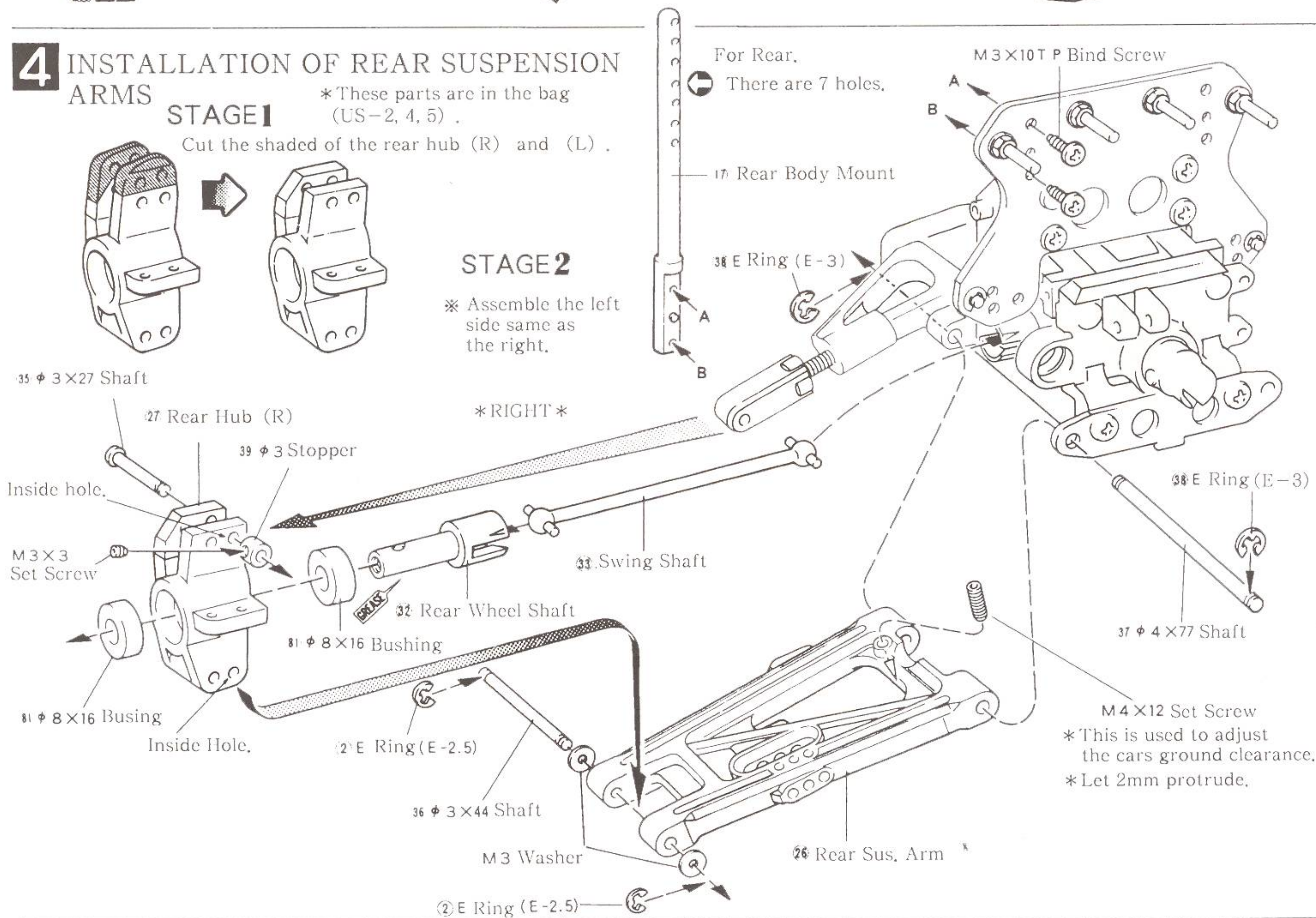
38 E Ring (E-3)

37 4 X 77 Shaft

M4 X 12 Set Screw

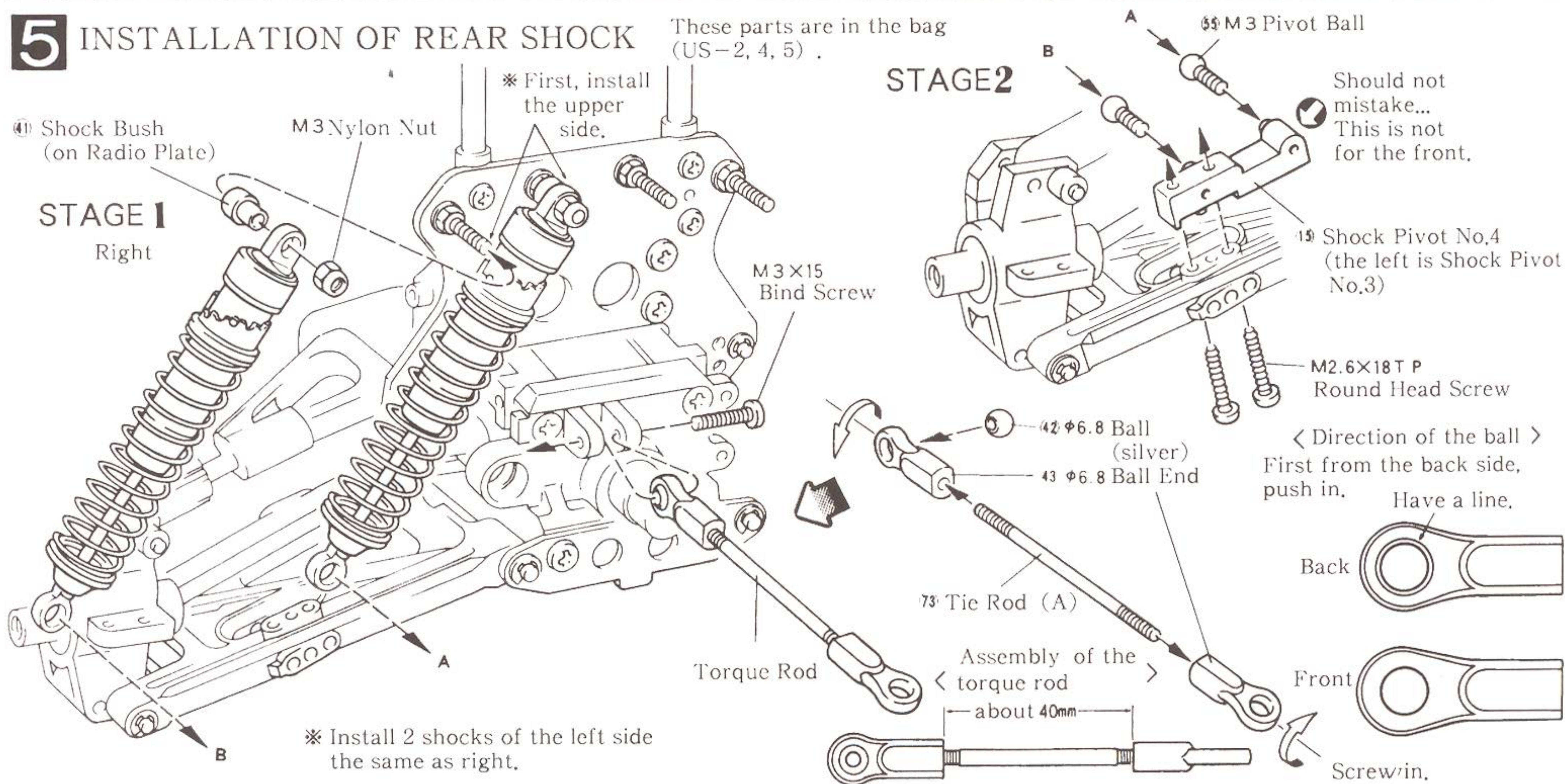
* This is used to adjust the cars ground clearance.
* Let 2mm protrude.

26 Rear Sus. Arm



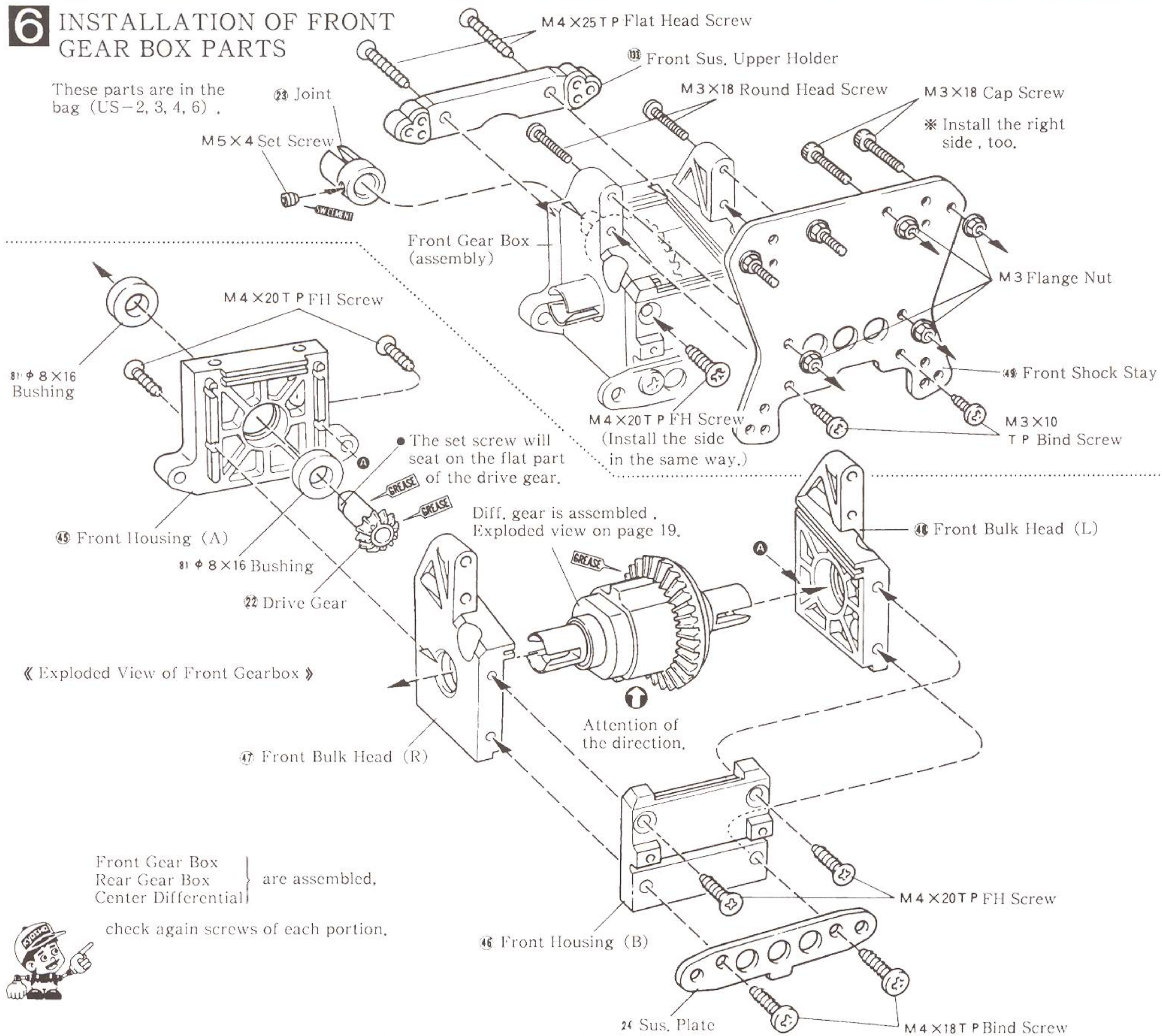
5 INSTALLATION OF REAR SHOCK

These parts are in the bag (US-2, 4, 5).



6 INSTALLATION OF FRONT GEAR BOX PARTS

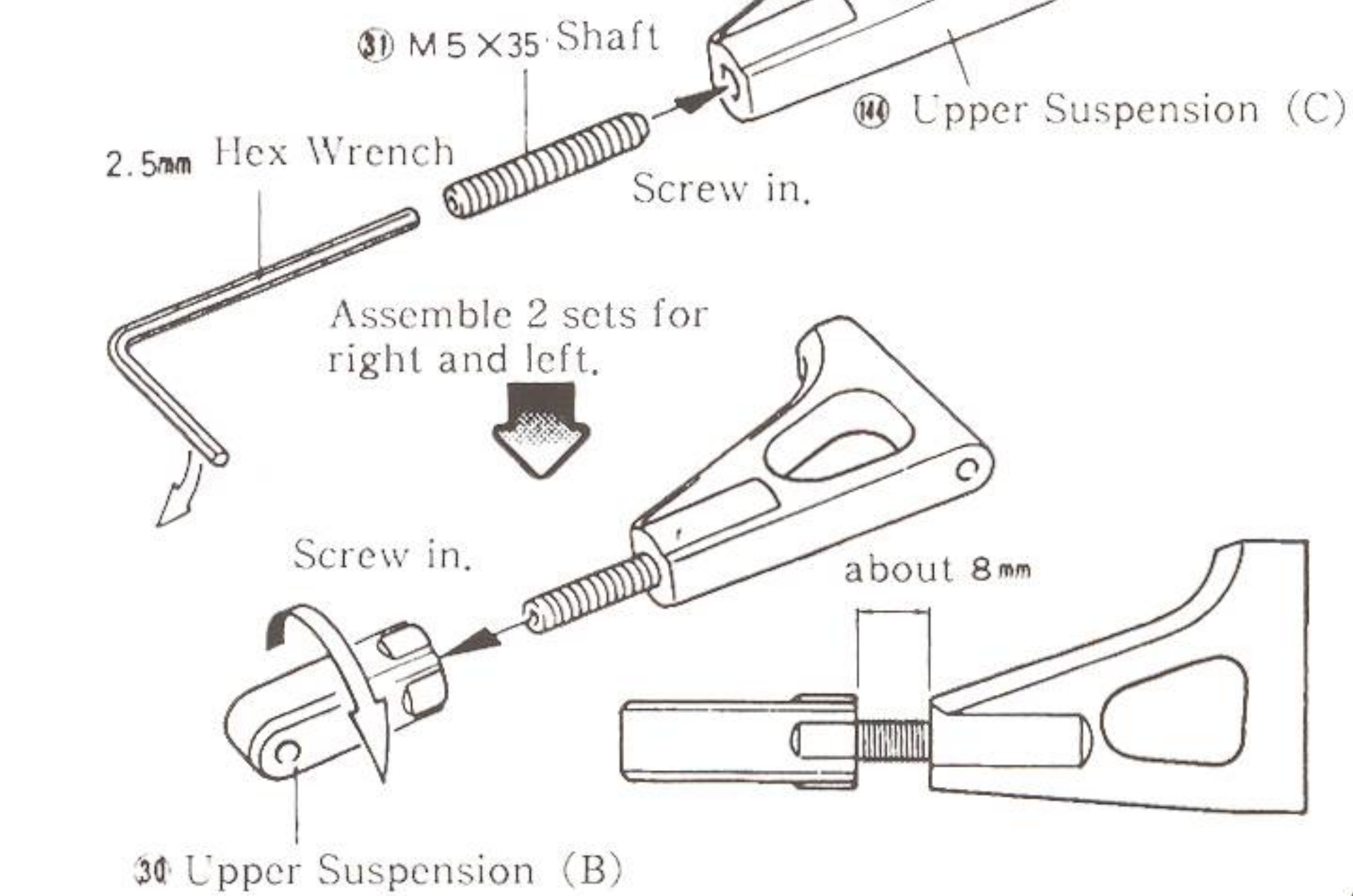
These parts are in the bag (US-2, 3, 4, 6).



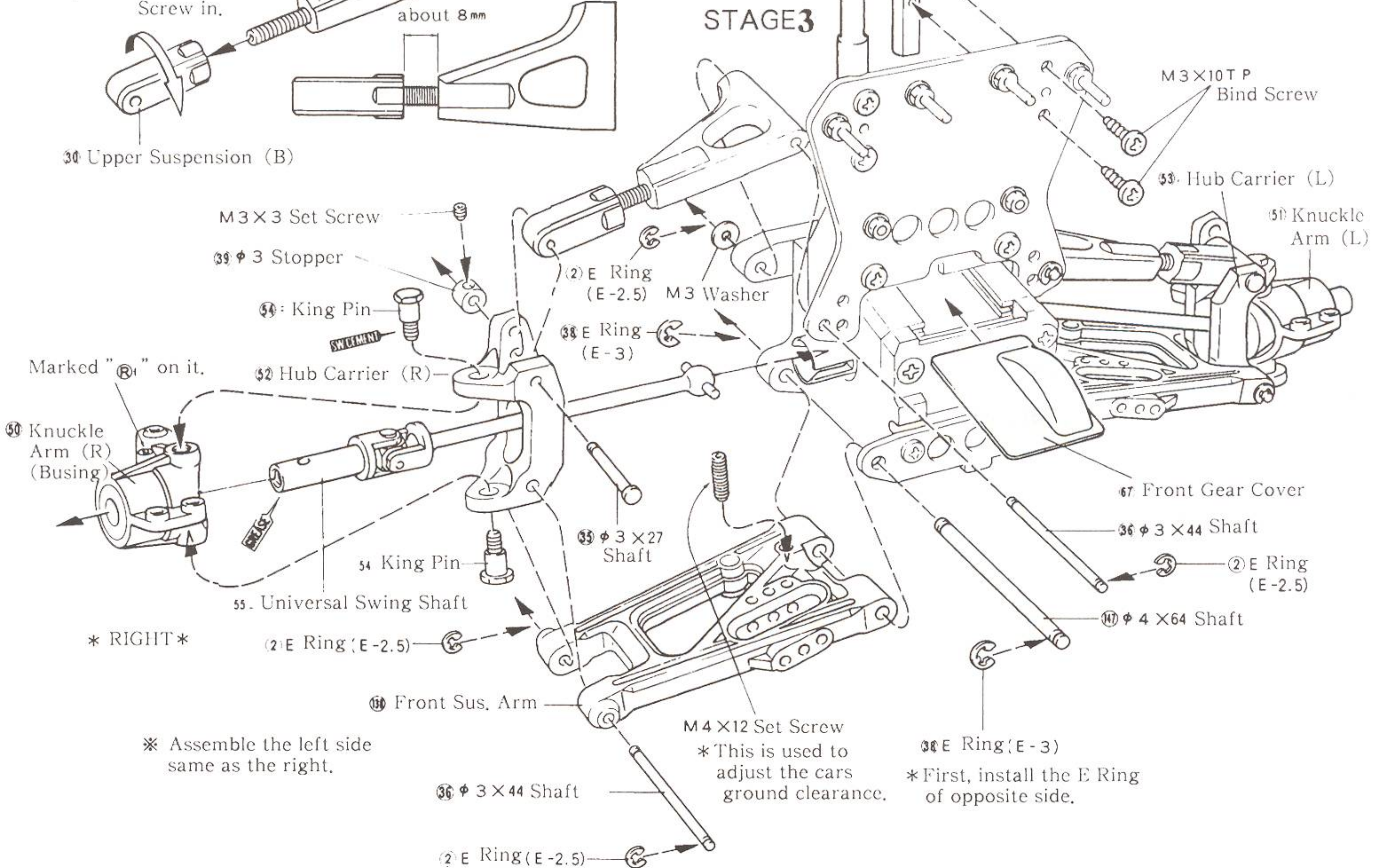
7 INSTALLATION OF FRONT SUSPENSION ARM

These parts are in the bag (US-2, 4, 6).

STAGE1 < Assembly of Upper Rod >



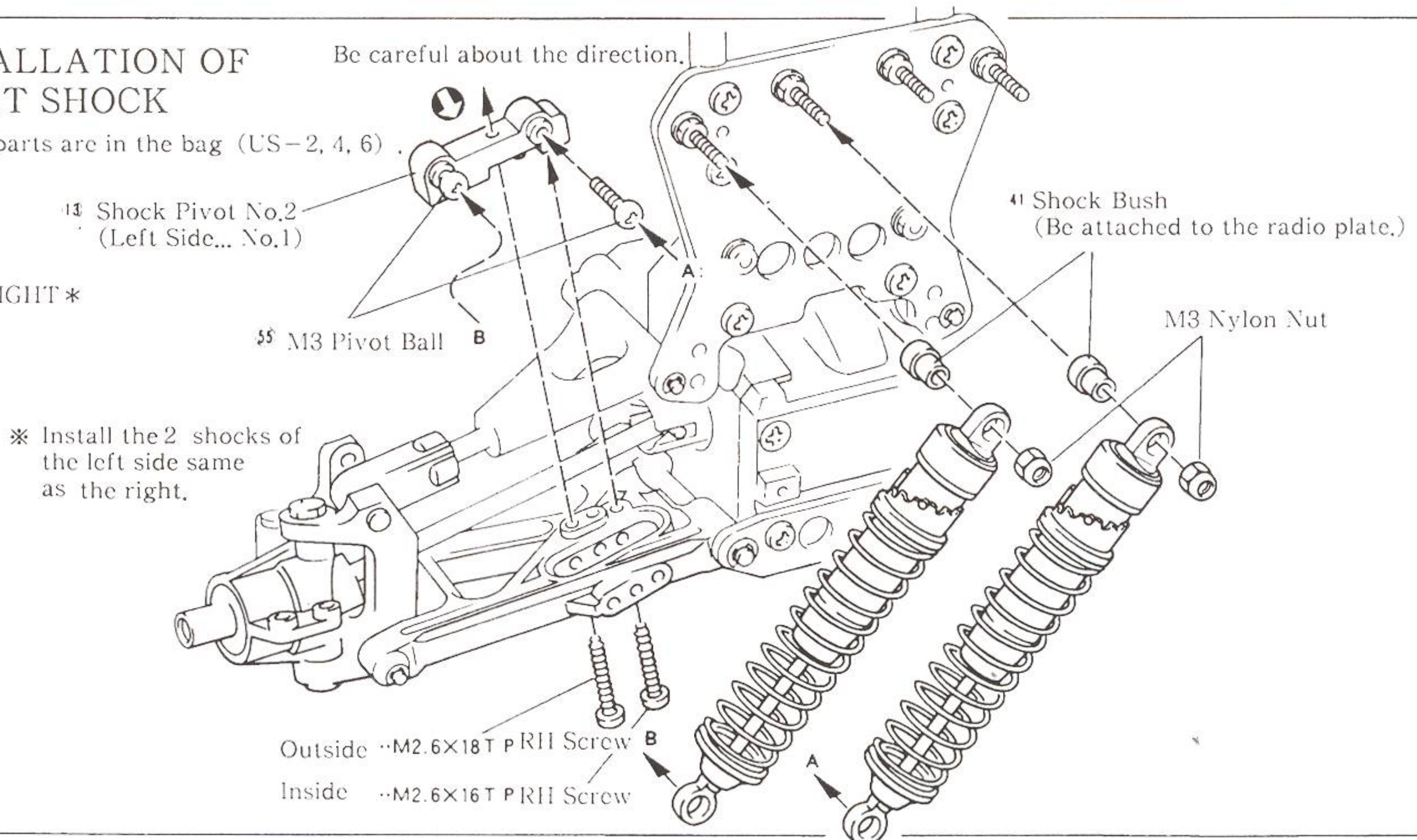
STAGE2



8 INSTALLATION OF FRONT SHOCK

These parts are in the bag (US-2, 4, 6).

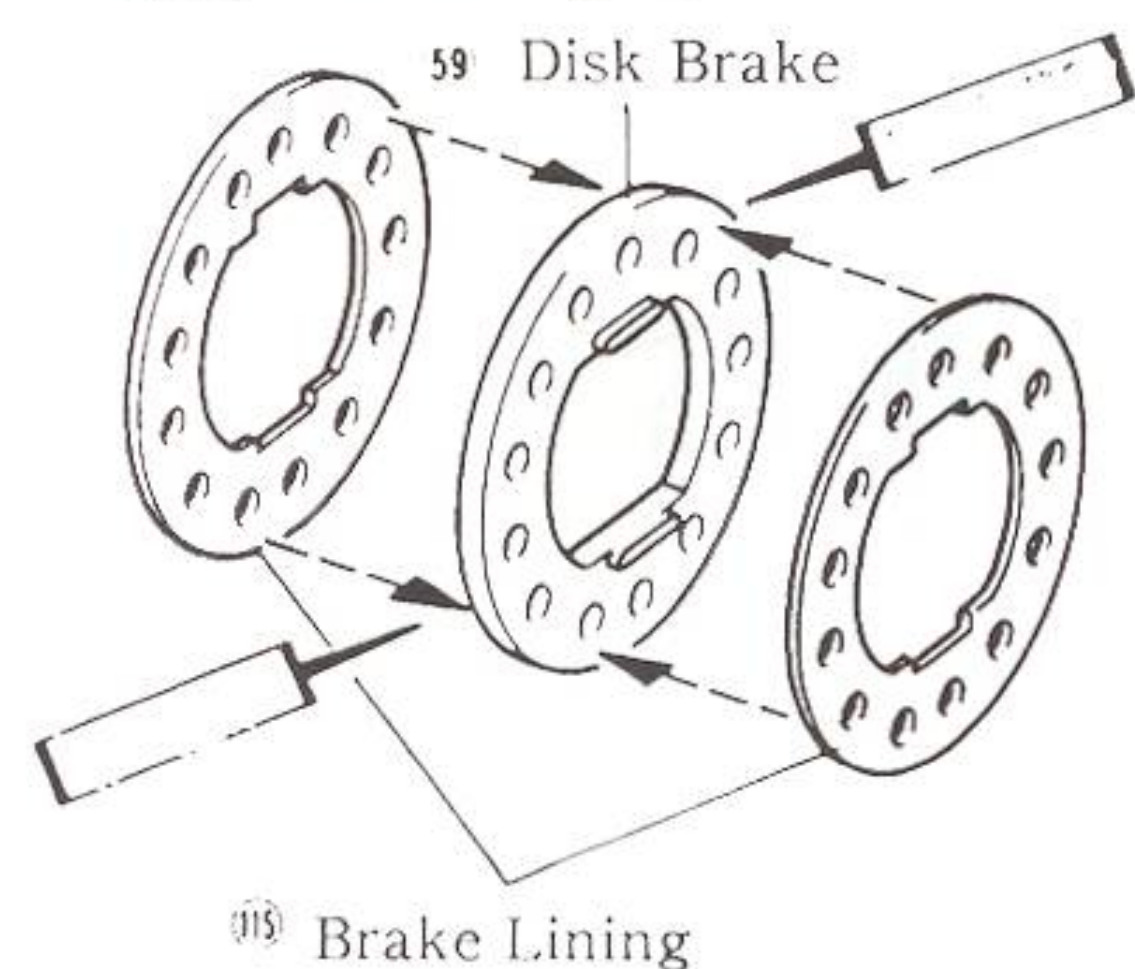
* RIGHT *



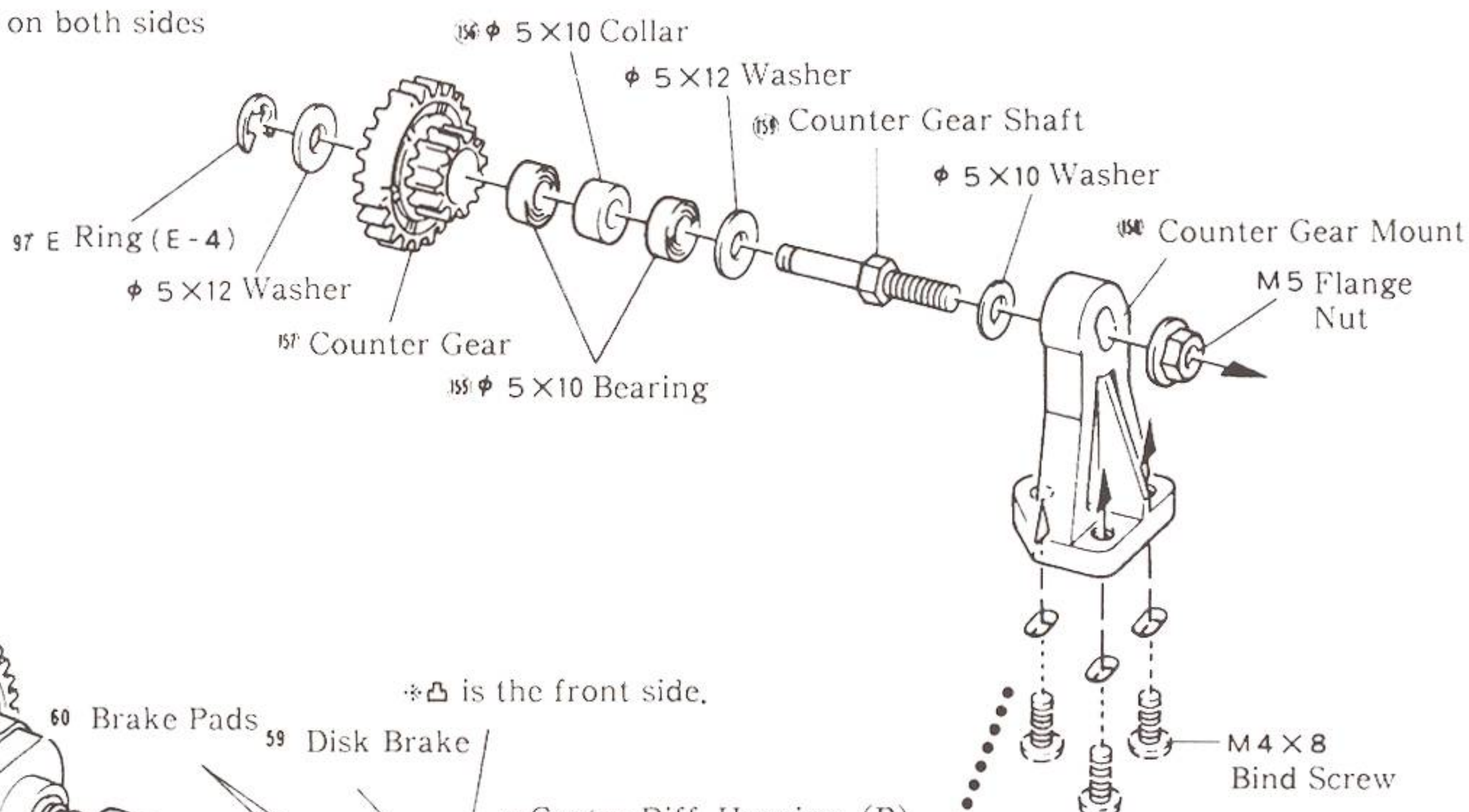
9 INSTALLATION OF BRAKE & COUNTER GEAR

STAGE 1 < Applying of Brake Lining >

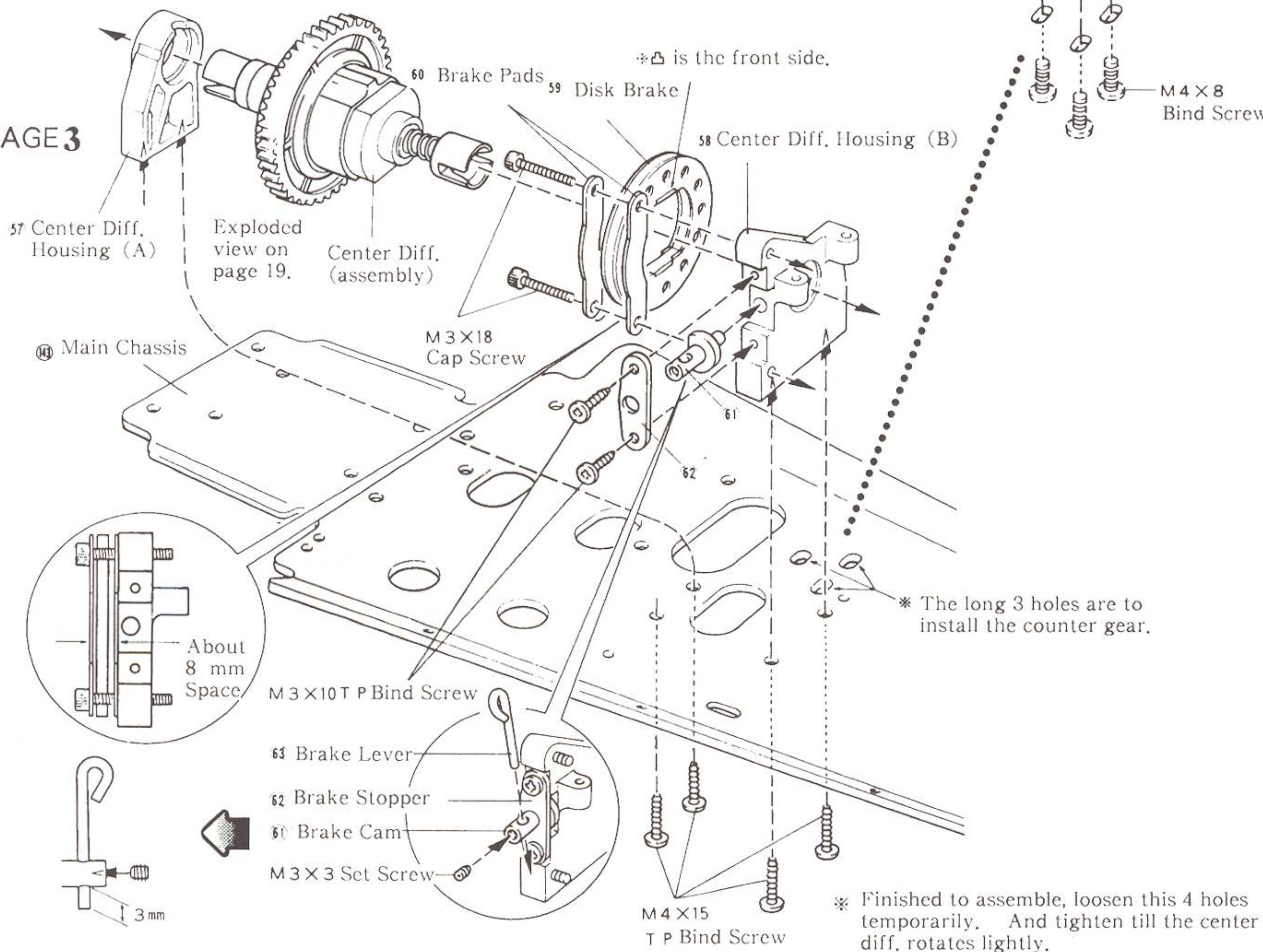
Affix the brake lining to the disk brake on both sides with a instant glue.



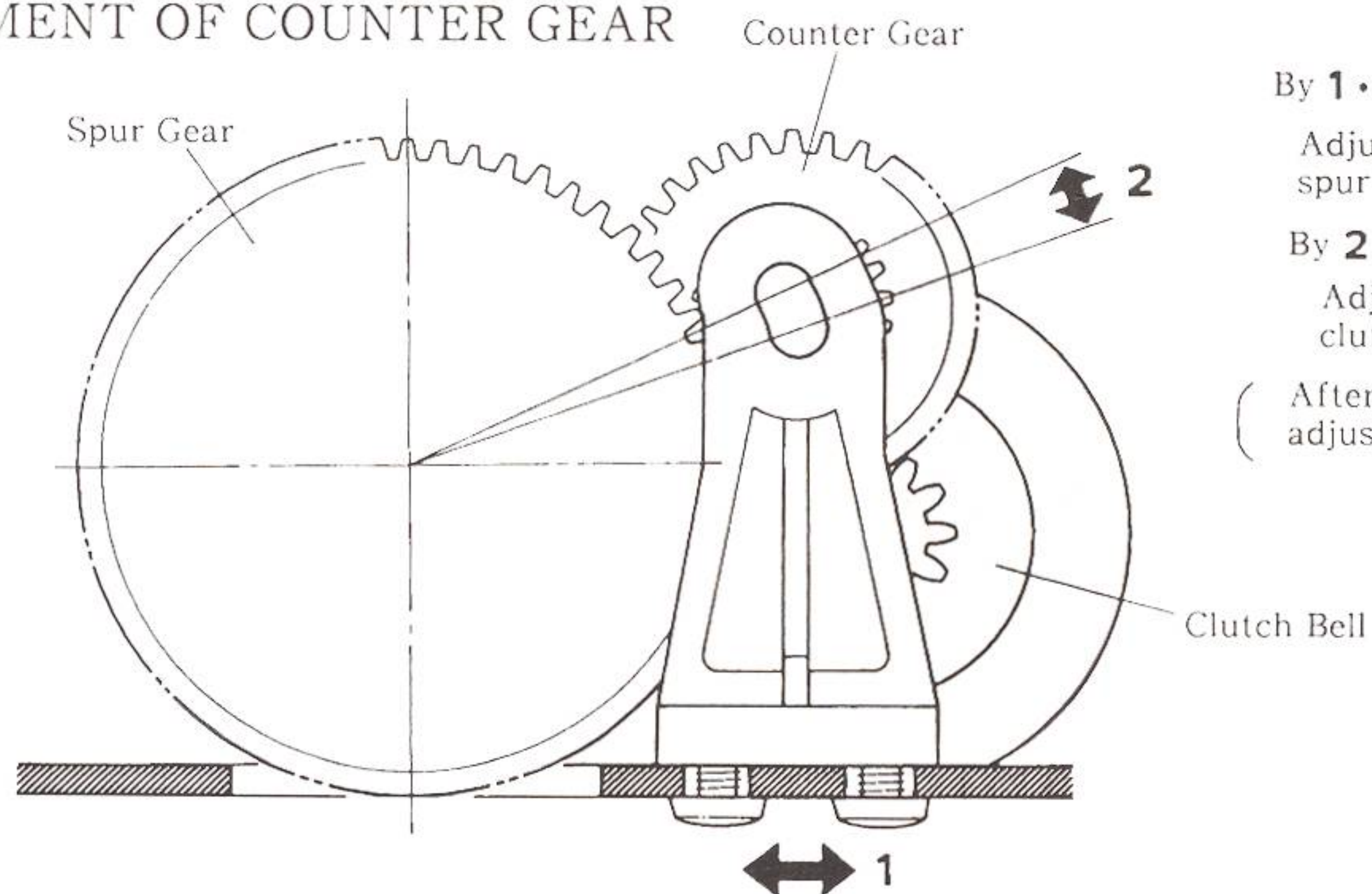
STAGE 2 < Assembly of Counter Gear >



STAGE 3



10 ADJUSTMENT OF COUNTER GEAR



By 1...

Adjust the backlash between the spur gear and the counter gear.

By 2...

Adjust the backlash between the clutch bell and the counter gear.

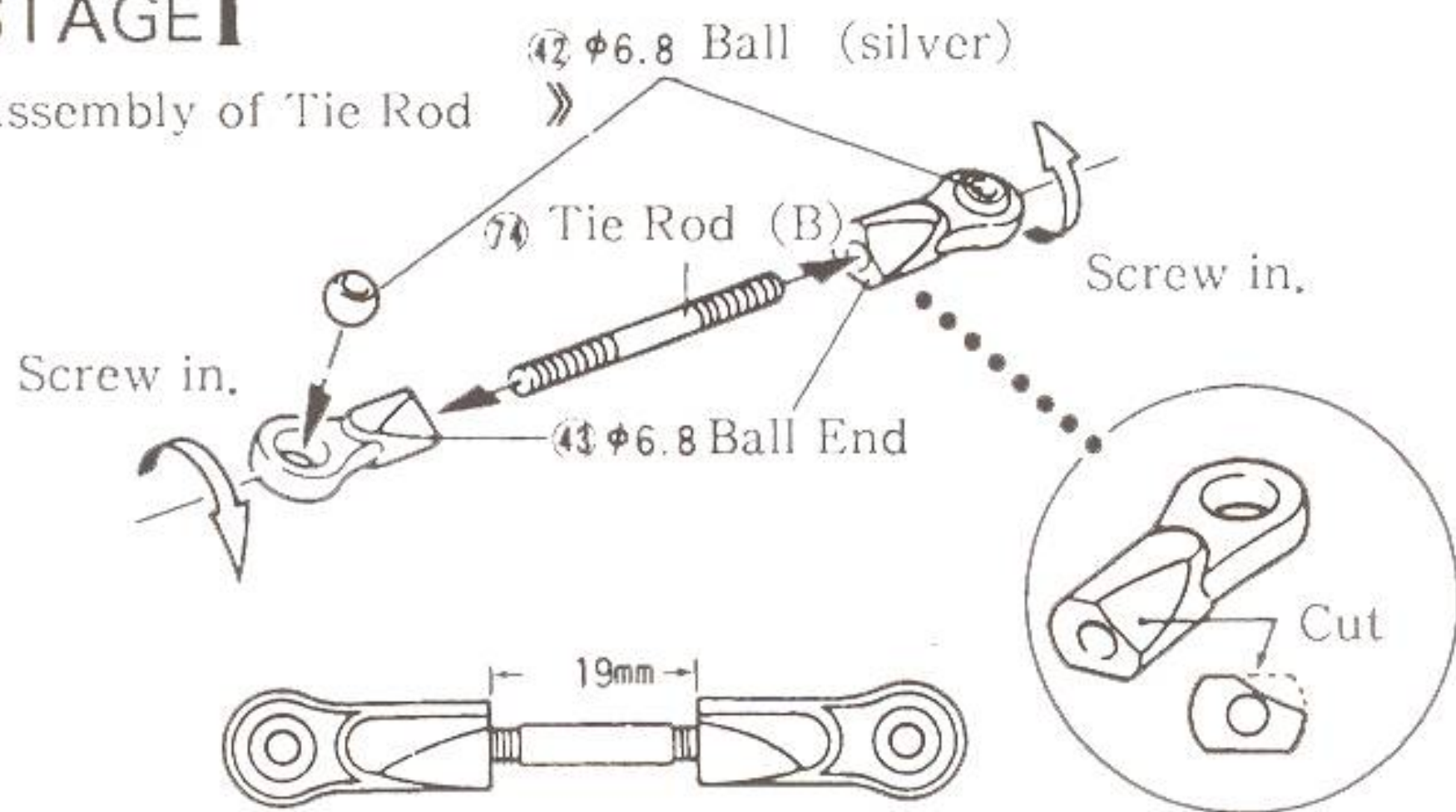
(After 16 (installation of engine), adjust at 2 .)

11 ASSEMBLY OF STEERING PORTION

These parts are in the bag (US-2, 4, 7) .

STAGE1

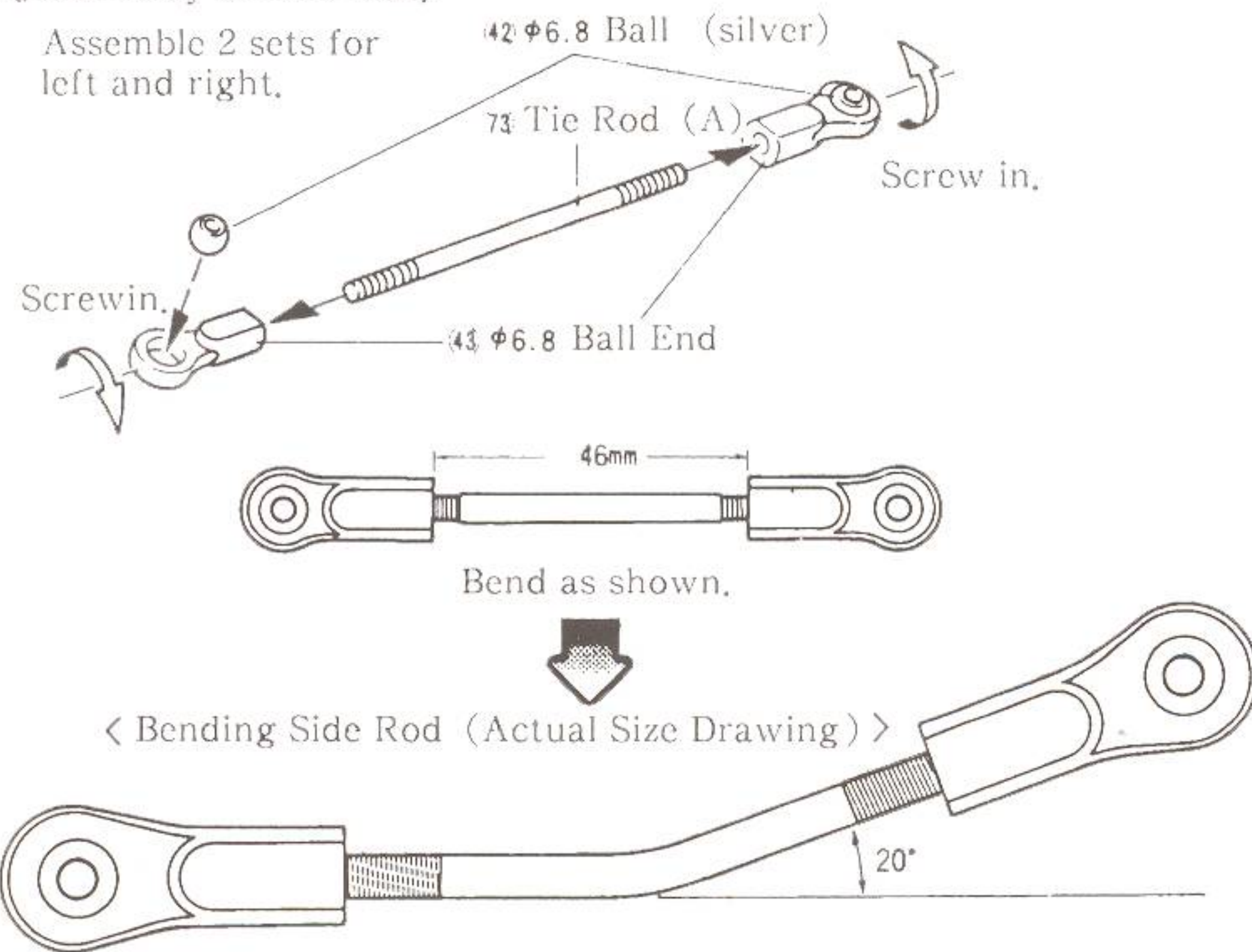
《 Assembly of Tie Rod 》



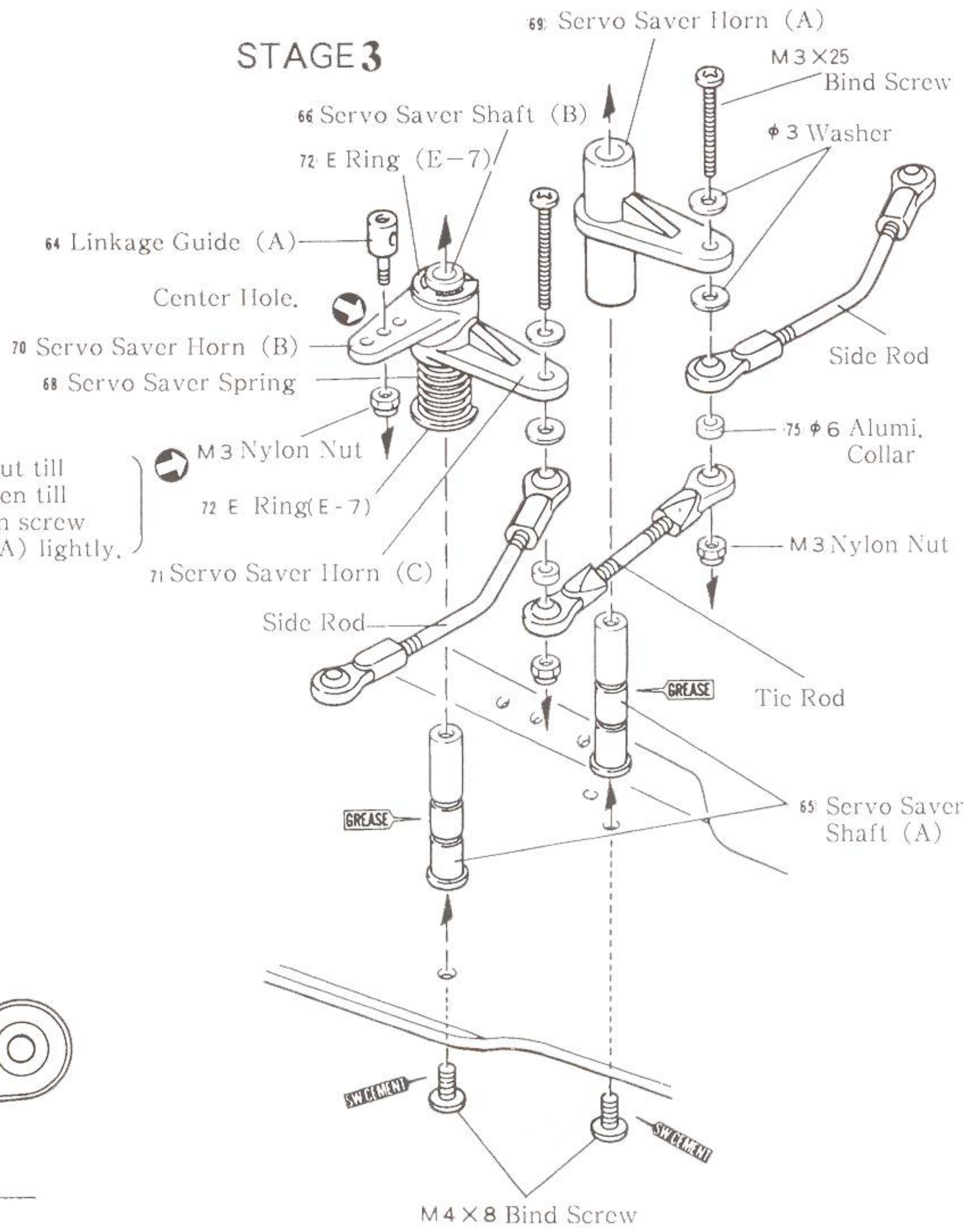
STAGE2

《 Assembly of Side Rod 》

Assemble 2 sets for left and right.



STAGE3



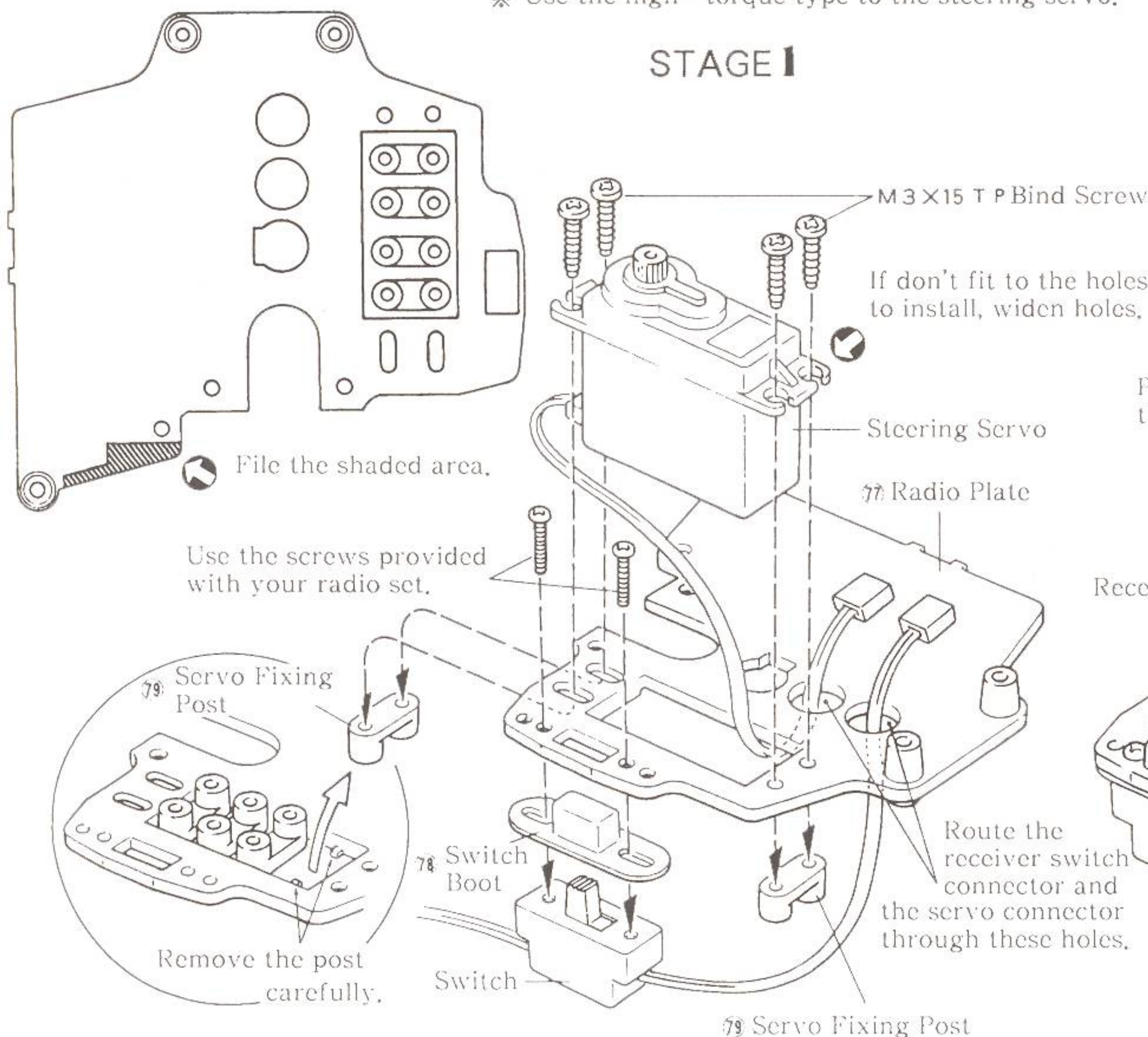
12 INSTALLATION OF RADIO SYSTEM

These parts are in the bag (US-2, 4, 8, 9) .

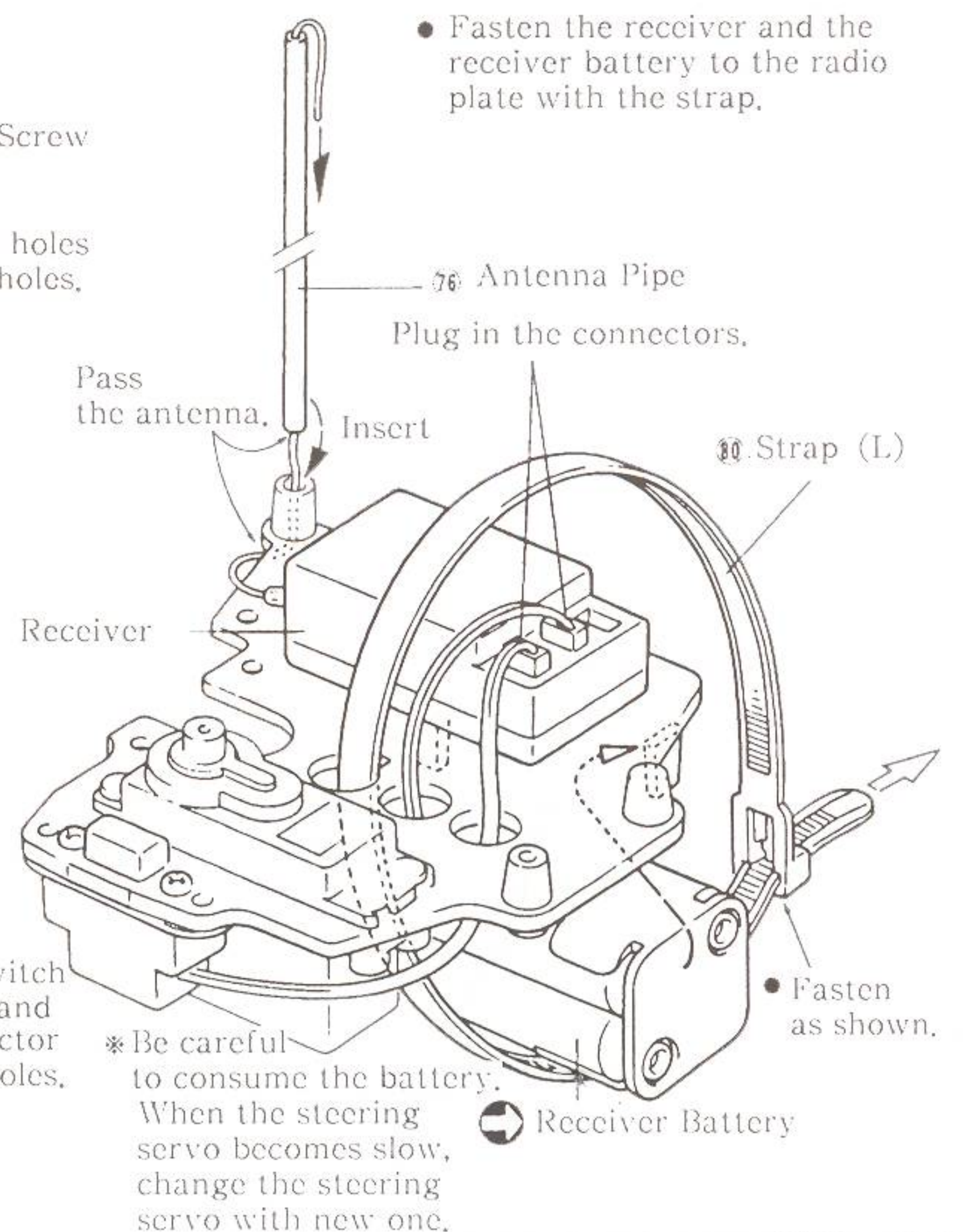
※ Use the high-torque type to the steering servo.

※ When the car runs on the soiled road, it is better to put the radio cover to the receiver.

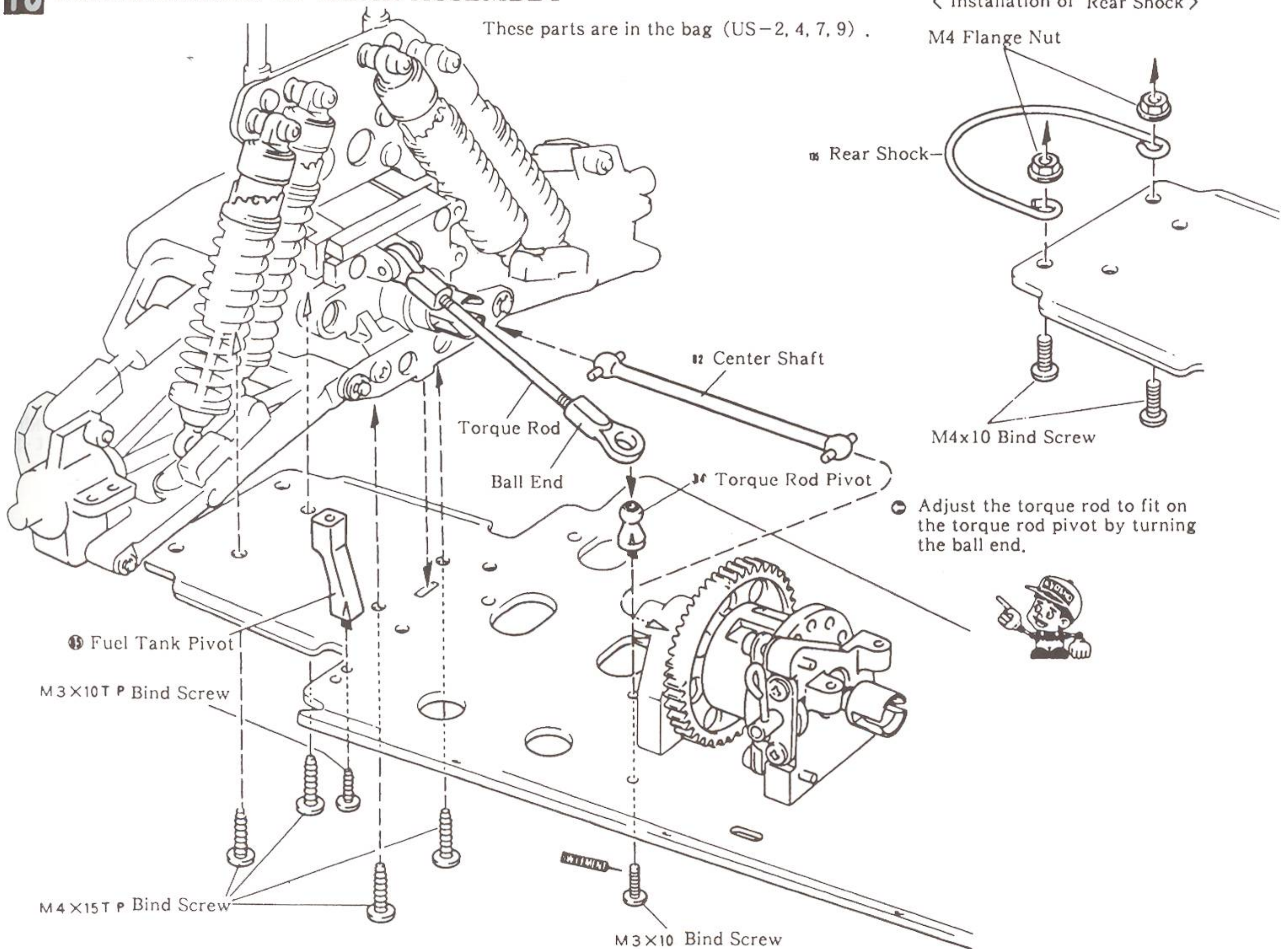
STAGE 1



STAGE 2

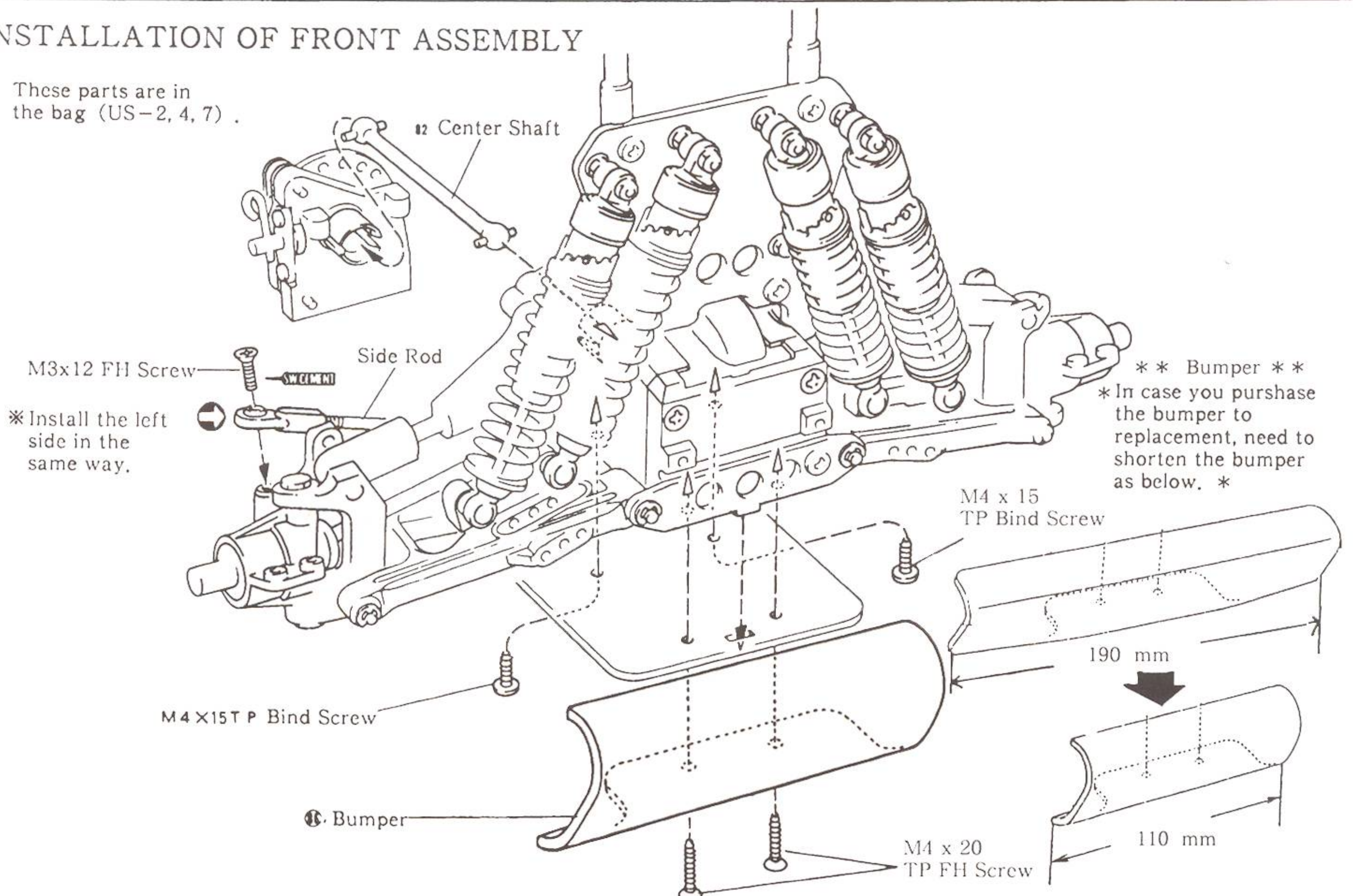


13 INSTALLATION OF REAR ASSEMBLY



14 INSTALLATION OF FRONT ASSEMBLY

These parts are in the bag (US-2, 4, 7) .



15 INSTALLATION OF CLUTCH

These parts are in the bag (US-2, 8, 9).

M3X25 Cap Screw

M3X10 Cap Screw

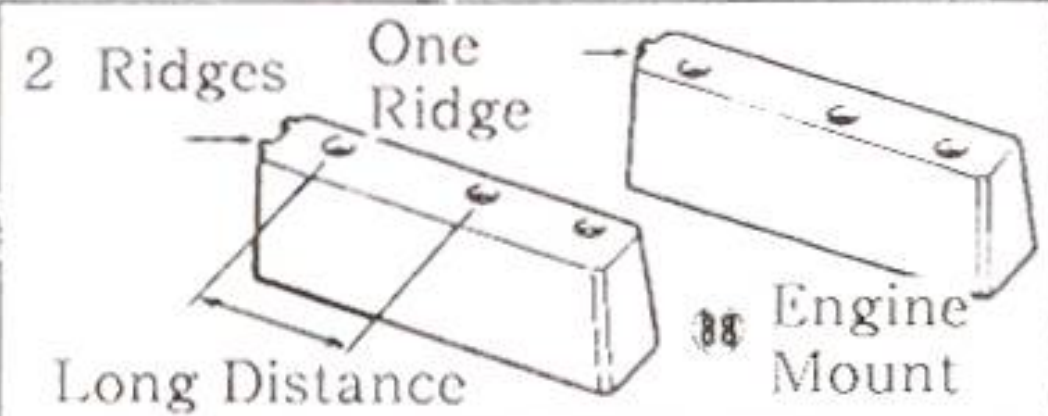
87 Manifold

M3X10 Cap Screw

- Mount the carb at an angle as shown, make sure it does not rub on anything.

(For ENYA Engine)

88 Engine Mount



Short Distance (For OS Engine)

One Ridge

89 Flywheel

2 Ridges

90 Clutch Pin

91 Pilot Shaft

92 Clutch Shoe

93 Clutch Spring

94 Clutch Bearing Case

95 Clutch Rollar

96 Clutch Bell (13T)

97 Tube

98 Muffler (A)

99 Muffler (B)

100 Tank Cap

101 Tank Seal

102 Tank

103 Fuel Tank

104 Servo Spacer

105 Servo Fixing Stay (A)

106 Servo Fixing Stay (B)

107 Tube

108 Muffler Baffle

109 Muffler (B)

110 Tube

111 Tube

112 Tube

113 Tube

114 Tube

115 Tube

116 Tube

117 Tube

118 Tube

119 Tube

120 Tube

121 Tube

122 Tube

123 Tube

124 Tube

125 Tube

126 Tube

127 Tube

128 Tube

129 Tube

130 Tube

131 Tube

132 Tube

133 Tube

Cement with rubber cement.

Insert the hex wrench, tighten the pilot shaft firmly.

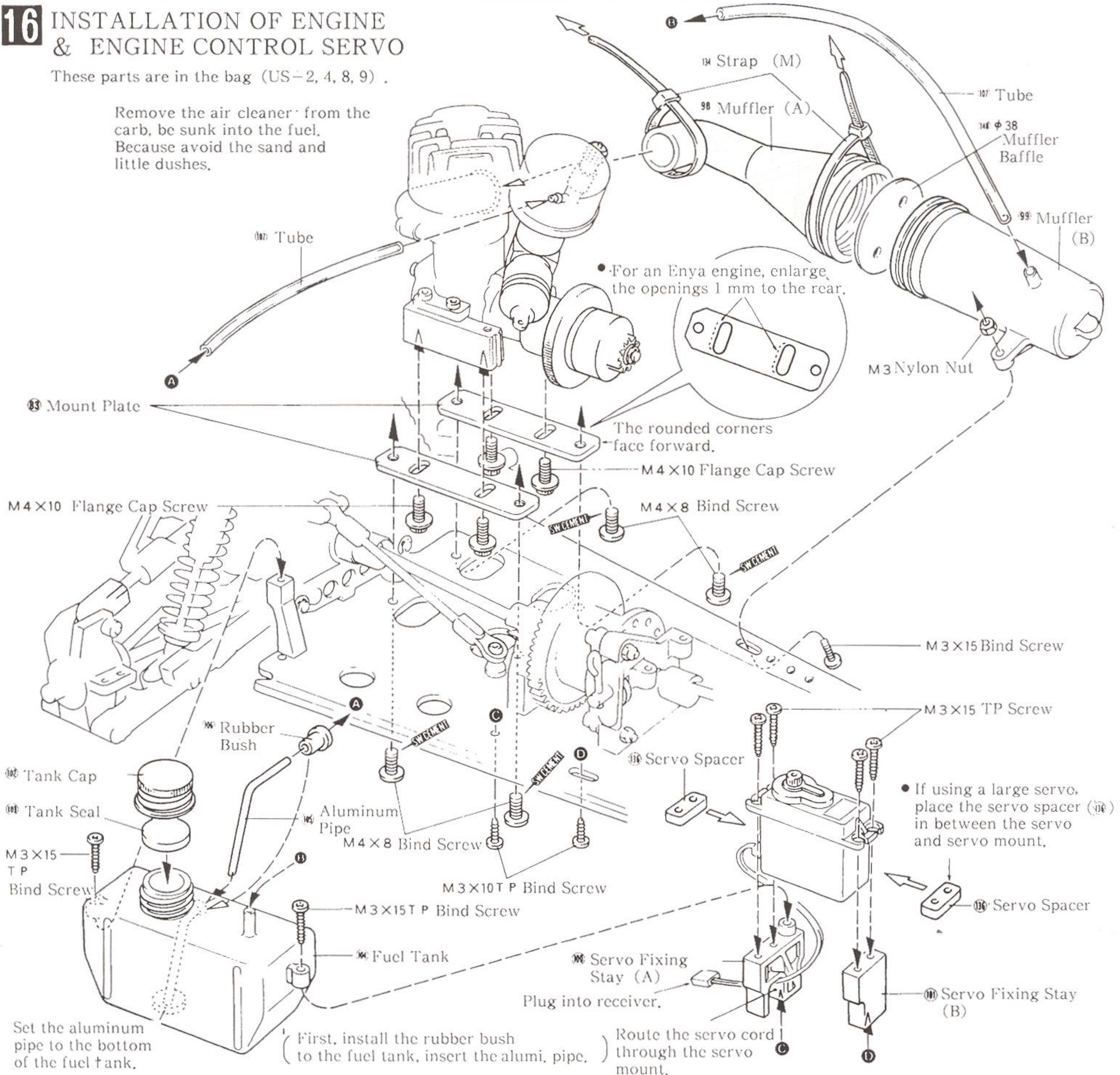
(Note) If your transmitter does not have servo reversing, install the carb in the opposite direction. This illustration shows how the carb is installed with a radio that has servo reversing.



16 INSTALLATION OF ENGINE & ENGINE CONTROL SERVO

These parts are in the bag (US-2, 4, 8, 9).

Remove the air cleaner from the carb, be sunk into the fuel. Because avoid the sand and little dushes.



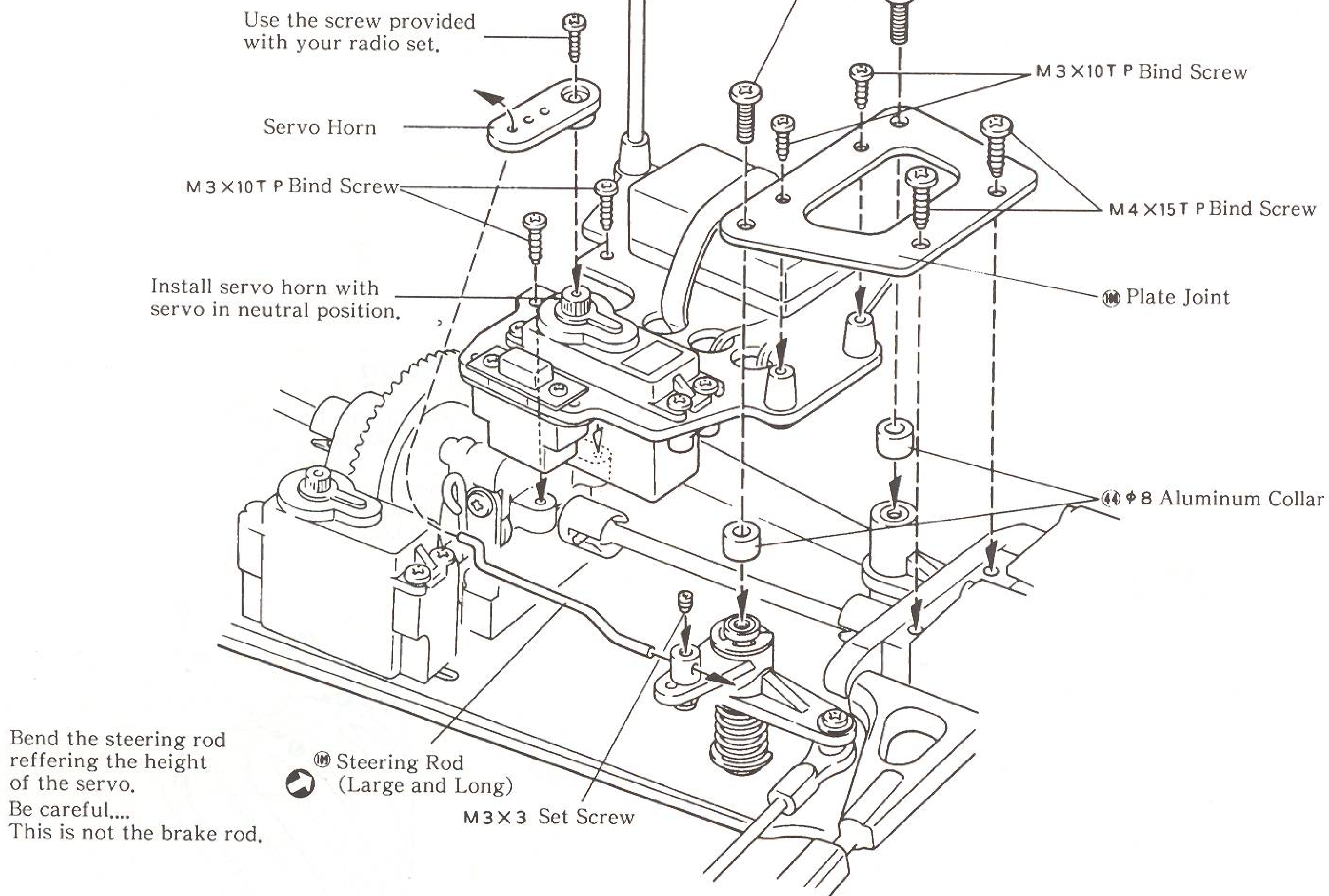
Set the aluminum pipe to the bottom of the fuel tank.

First, install the rubber bush to the fuel tank, insert the alumi. pipe.

Route the servo cord through the servo mount.

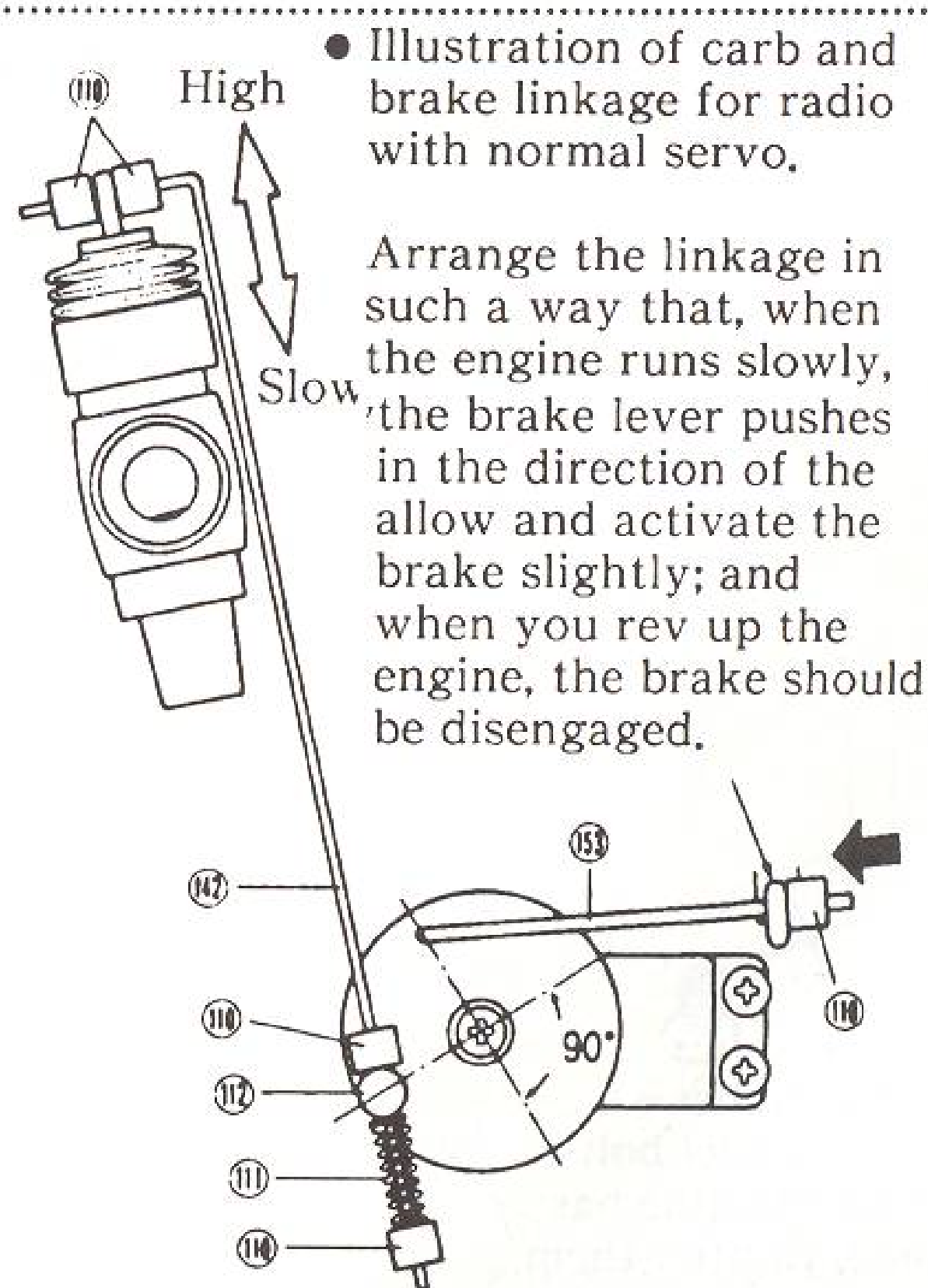
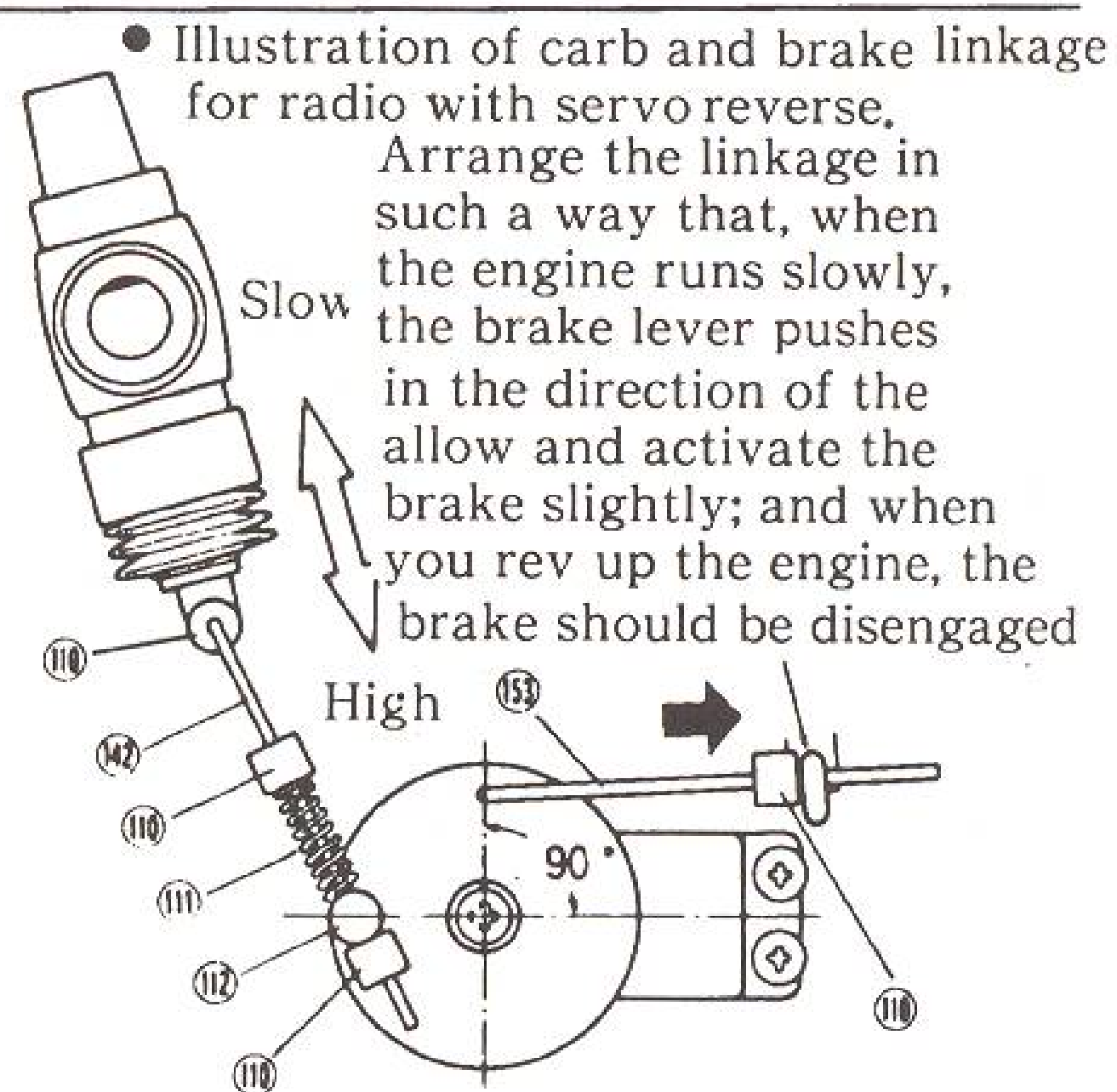
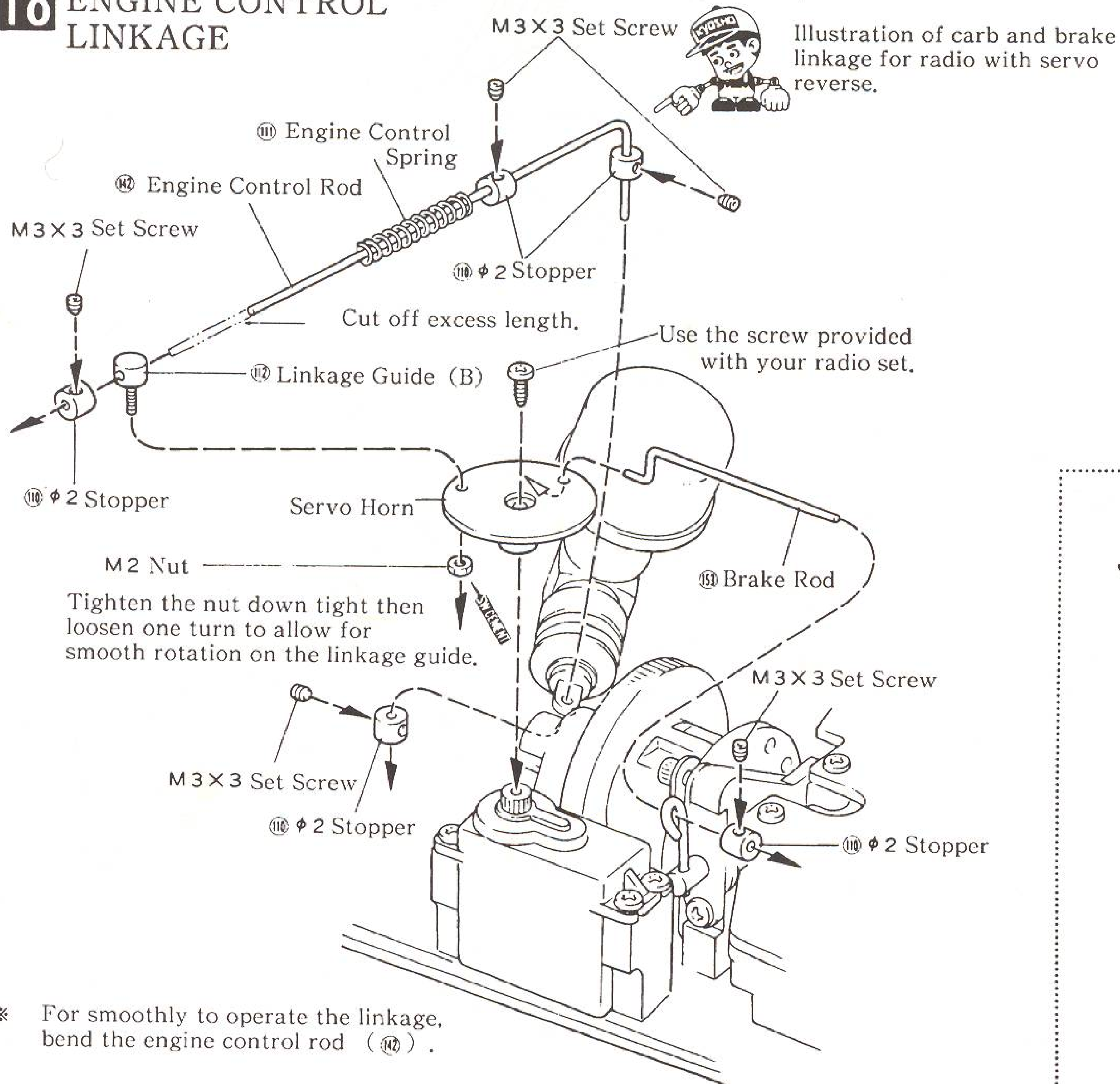
17 INSTALLATION OF RADIO PLATE

These parts are in the bag (US-2, 7, 8, 9)



18 ENGINE CONTROL LINKAGE

These parts are in the bag (US-2)



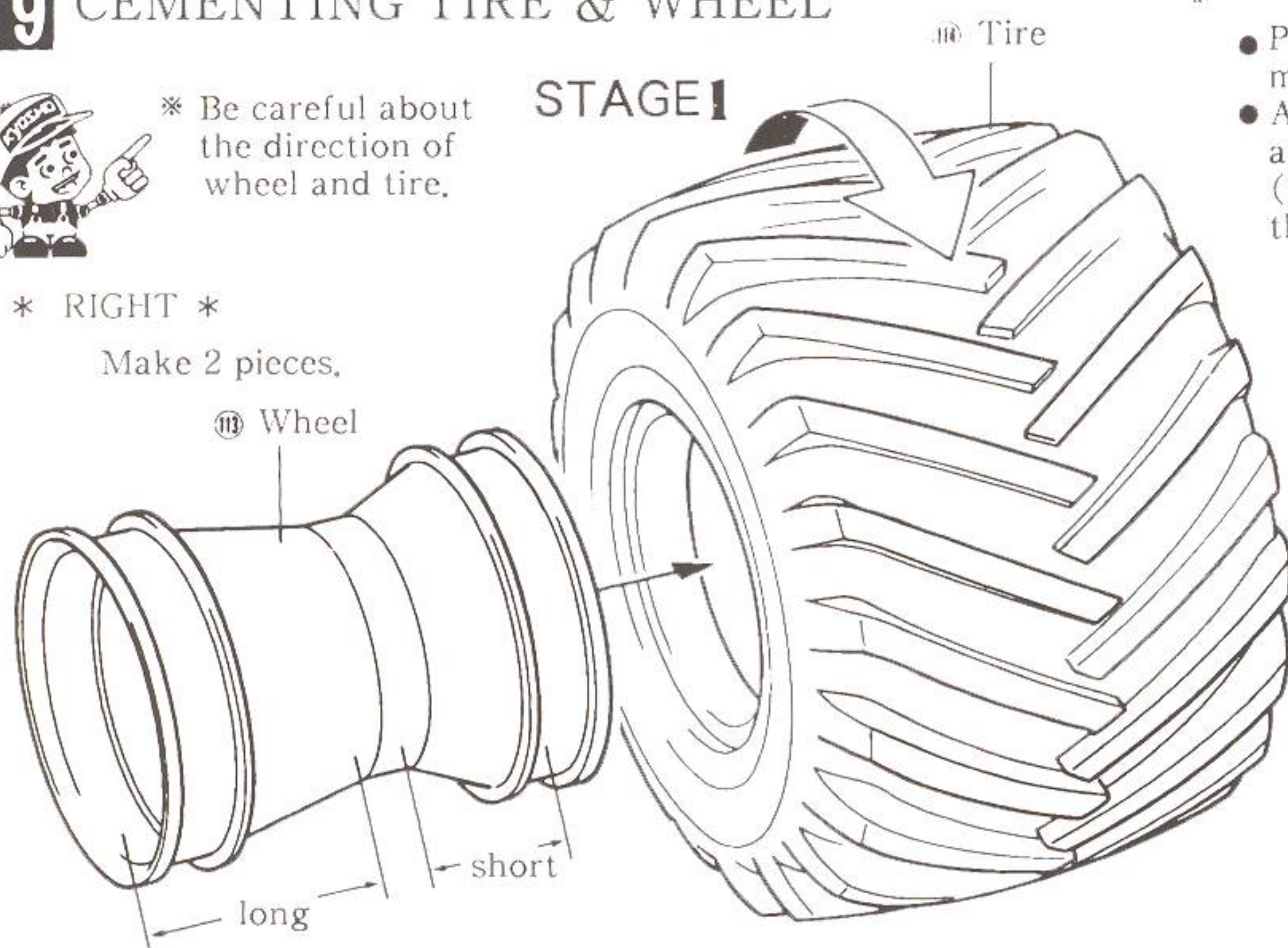
※ For smoothly to operate the linkage, bend the engine control rod (117).

19 CEMENTING TIRE & WHEEL



* Be careful about the direction of wheel and tire.

STAGE 1



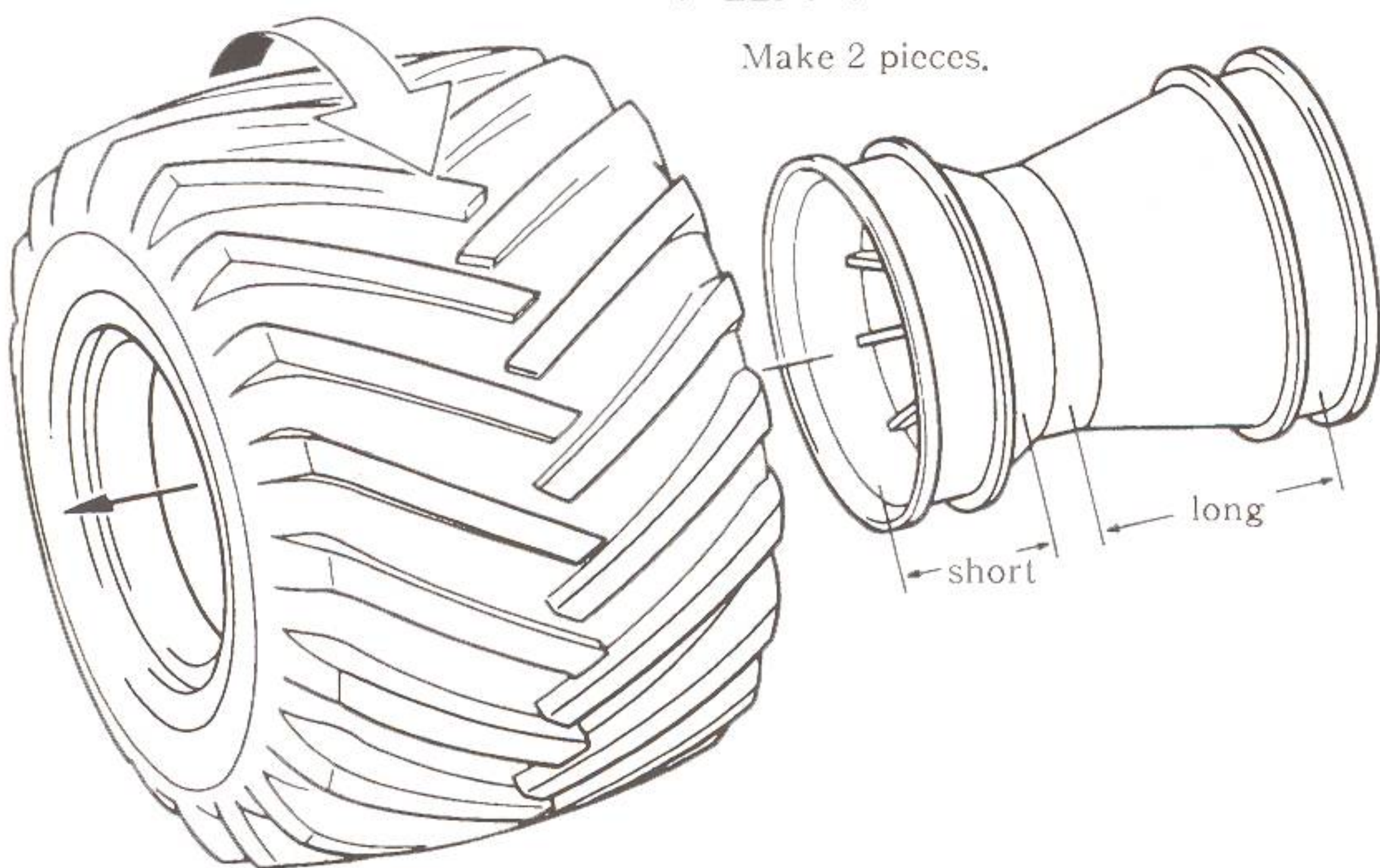
* RIGHT *

Make 2 pieces.

Wheel

* LEFT *

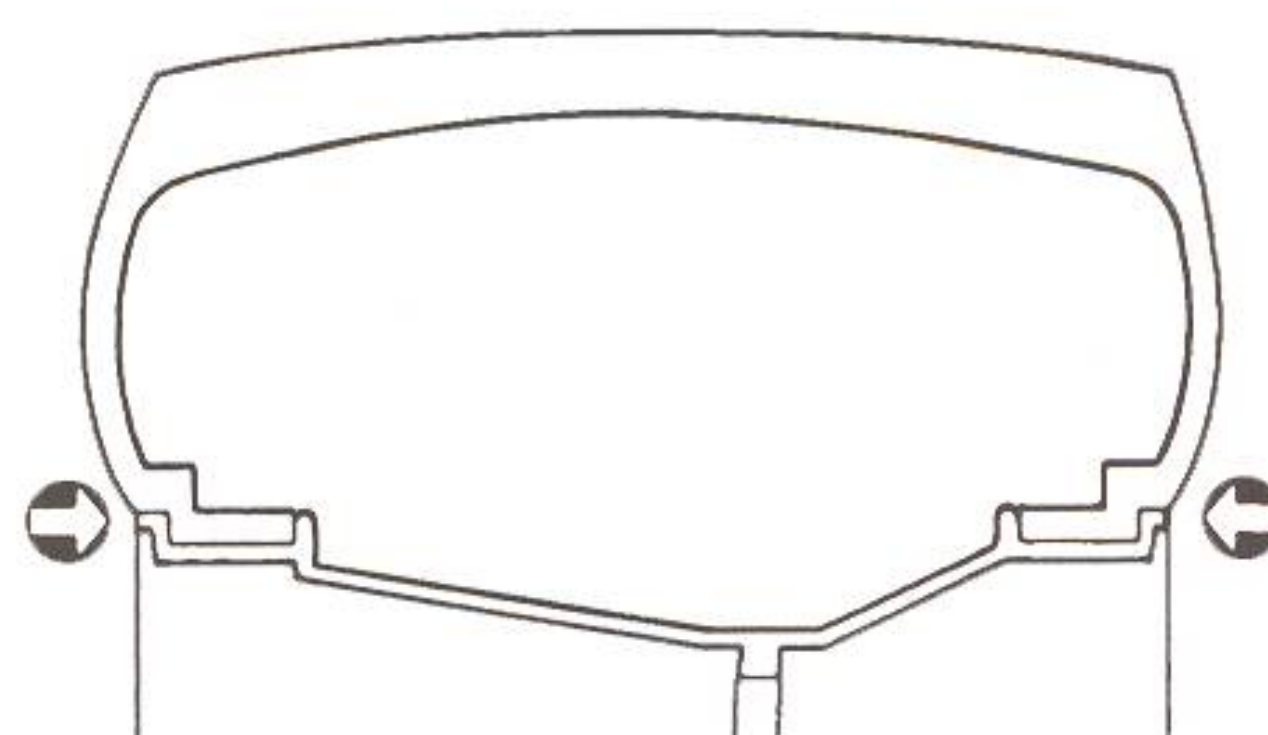
Make 2 pieces.



《 PLATE OF WHEEL 》

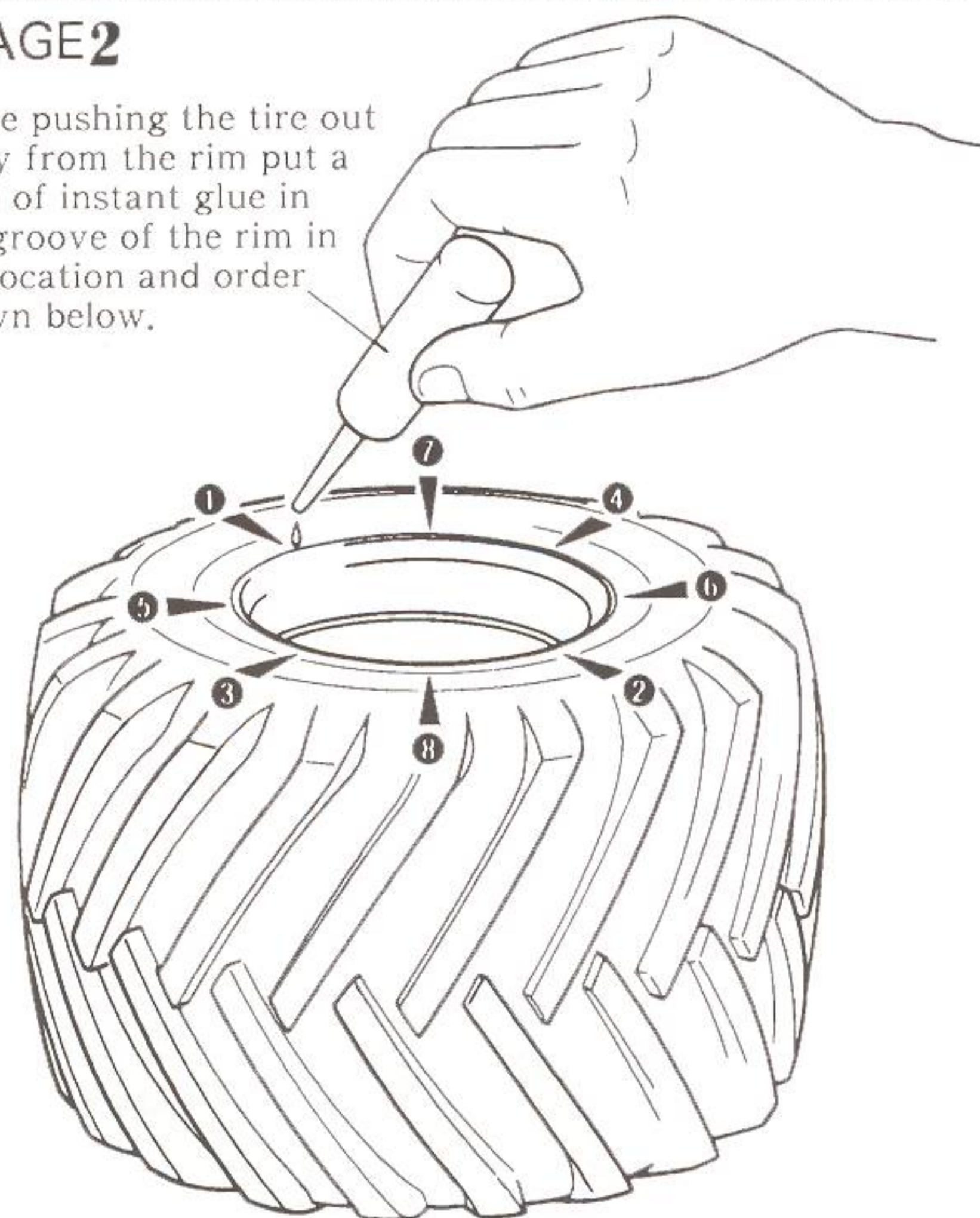
- Paint surface can be damaged by fuel, coating with fuel-resistant material is recommended.
- As the plate portion to apply hard to put a instant glue, file it by a sandpaper.
(Wash the applying portion of tire to remove any oil and rinse thoroughly with clean water.)

Fit the tire into the groove.



STAGE 2

While pushing the tire out away from the rim put a drop of instant glue in the groove of the rim in the location and order shown below.



20 INSTALLATION OF TIRE These parts are in the bag (US-2, 9) .

* RIGHT *

《 Front 》

Φ 8×16 Aluminum Washer

Wheel Stopper Bolt

Be careful about the direction of tire.

Wheel Stopper Bolt

Φ 8×16 Aluminum Washer

● Use a rubber-based glue to the wheel bolts. After the glue has dried, tighten them.

Wheel Stopper

O Ring (L)

* Fit a dent of wheel stopper with the shaft. And then push in.

* RIGHT *

《 Rear 》

Wheel Stopper

O Ring (L)

* Fit a dent of wheel stopper with the shaft.

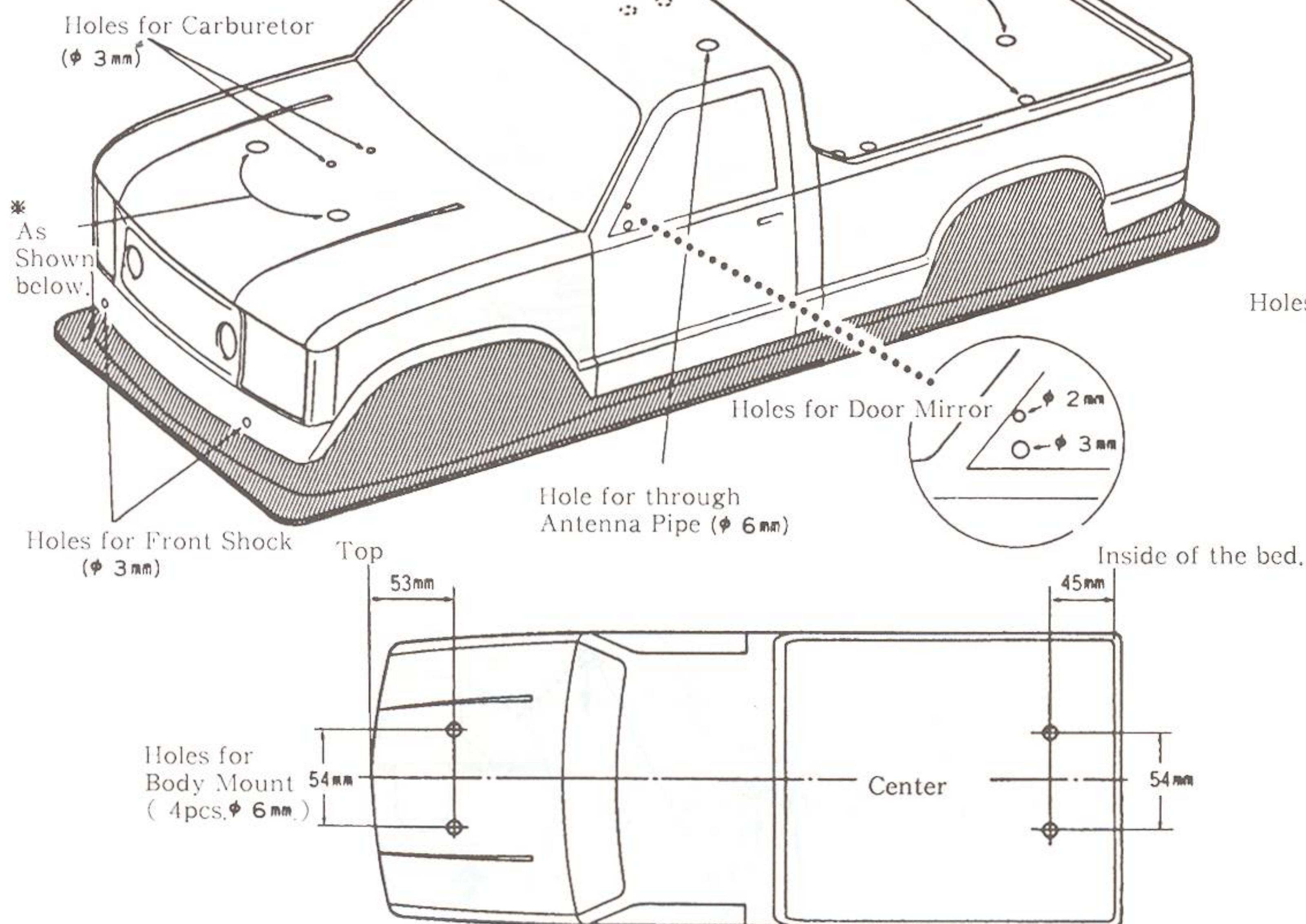
And then push in.

Φ 2.6×16 Shaft

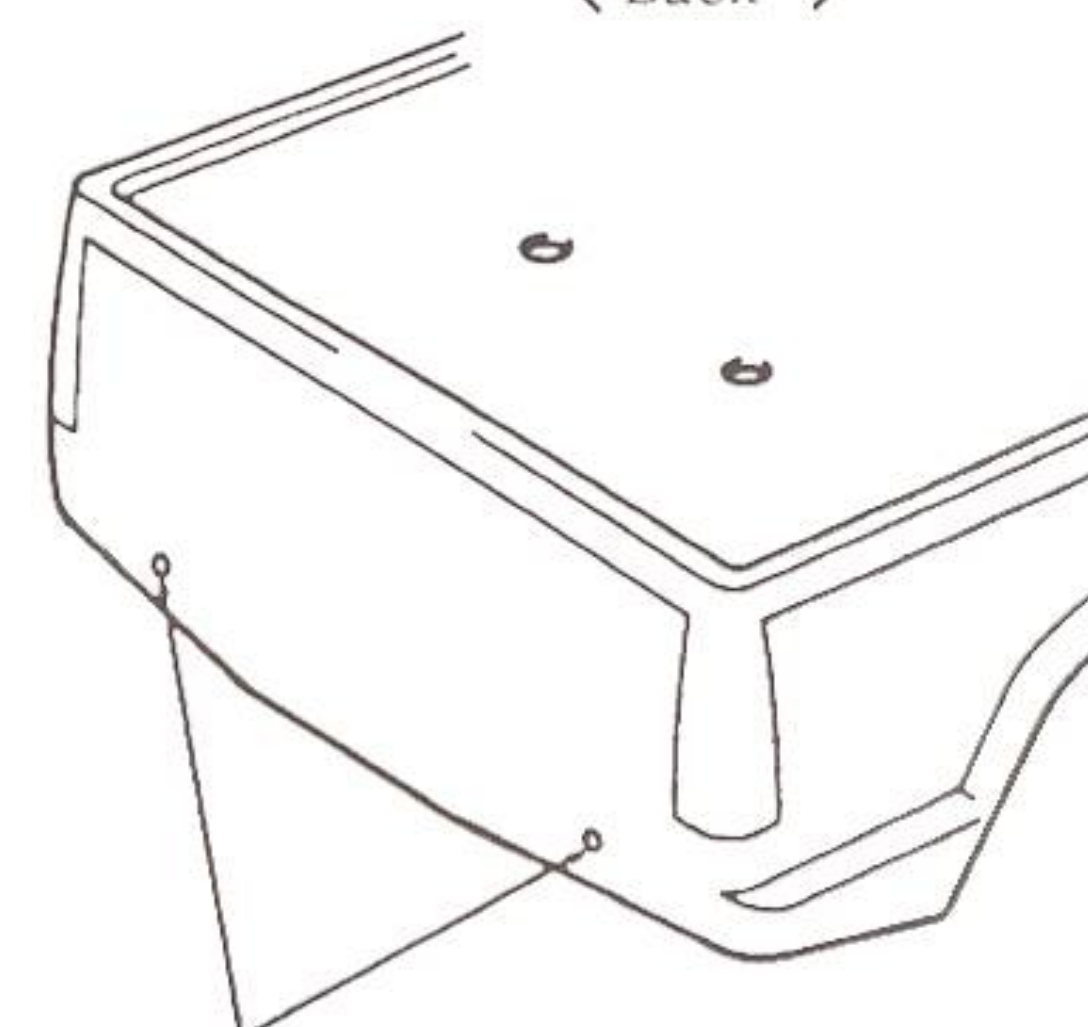
* Install the left side same as the right.

21 CUTTING BODY

- Cut the shaded area with a round cutter. Make holes with a awl.
- Finish the rough edges with a sander.



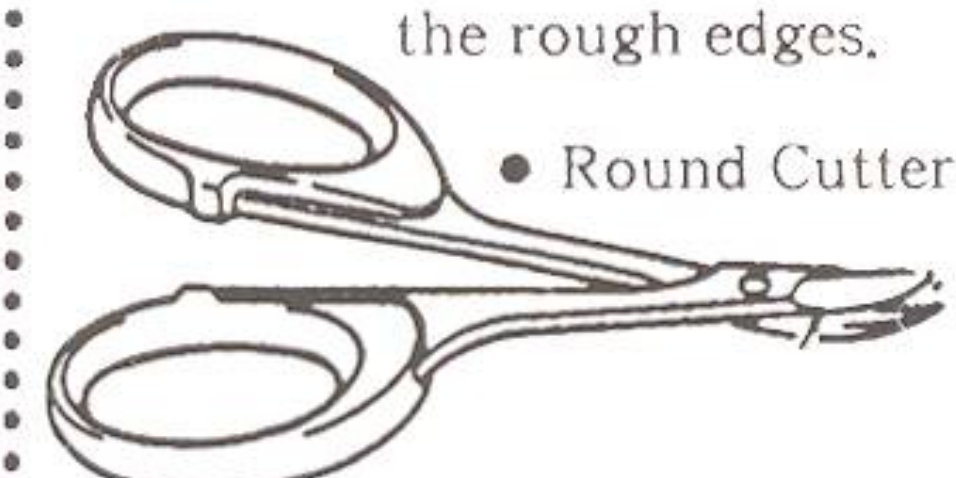
< Back >



Holes for Rear Shock ($\phi 3\text{mm}$)

KYOSHO No 1829

These special Laxan Scissors make trimming bodies a breeze and the sander comes in handy for finishing the rough edges.



• Round Cutter



• Sander

22 PAINTING

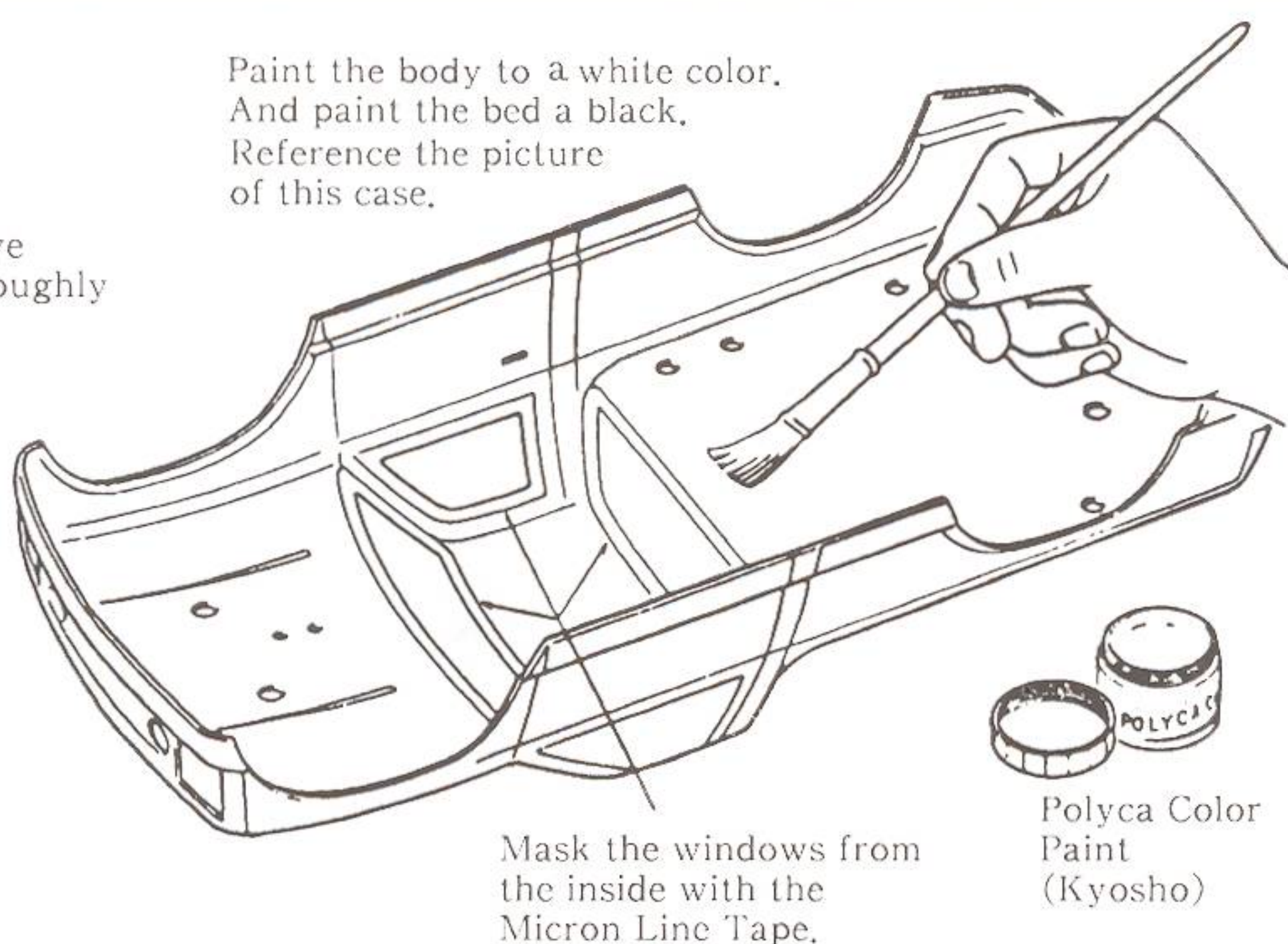
First wash the body to remove any oil or dirt and rinse thoroughly with clean water.

Paint the inside of body.

You can obtain a color scheme by masking a portion with tape then removing the tape and painting.

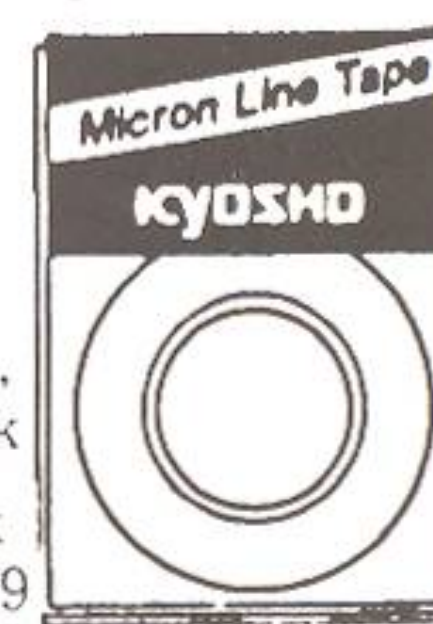
Apply the lightest color last.

Paint the body to a white color. And paint the bed a black. Reference the picture of this case.



KYOSHO No 1841 ~ 3

- No. 1841 ... 1mm
- No. 1842 ... 1.5mm
- No. 1843 ... 2.5mm
- Color: White, Red
- Yellow, Green, Blue and Black
- For border ... Black
- 0.4mm ... No. 1859
- 0.7mm ... No. 1860



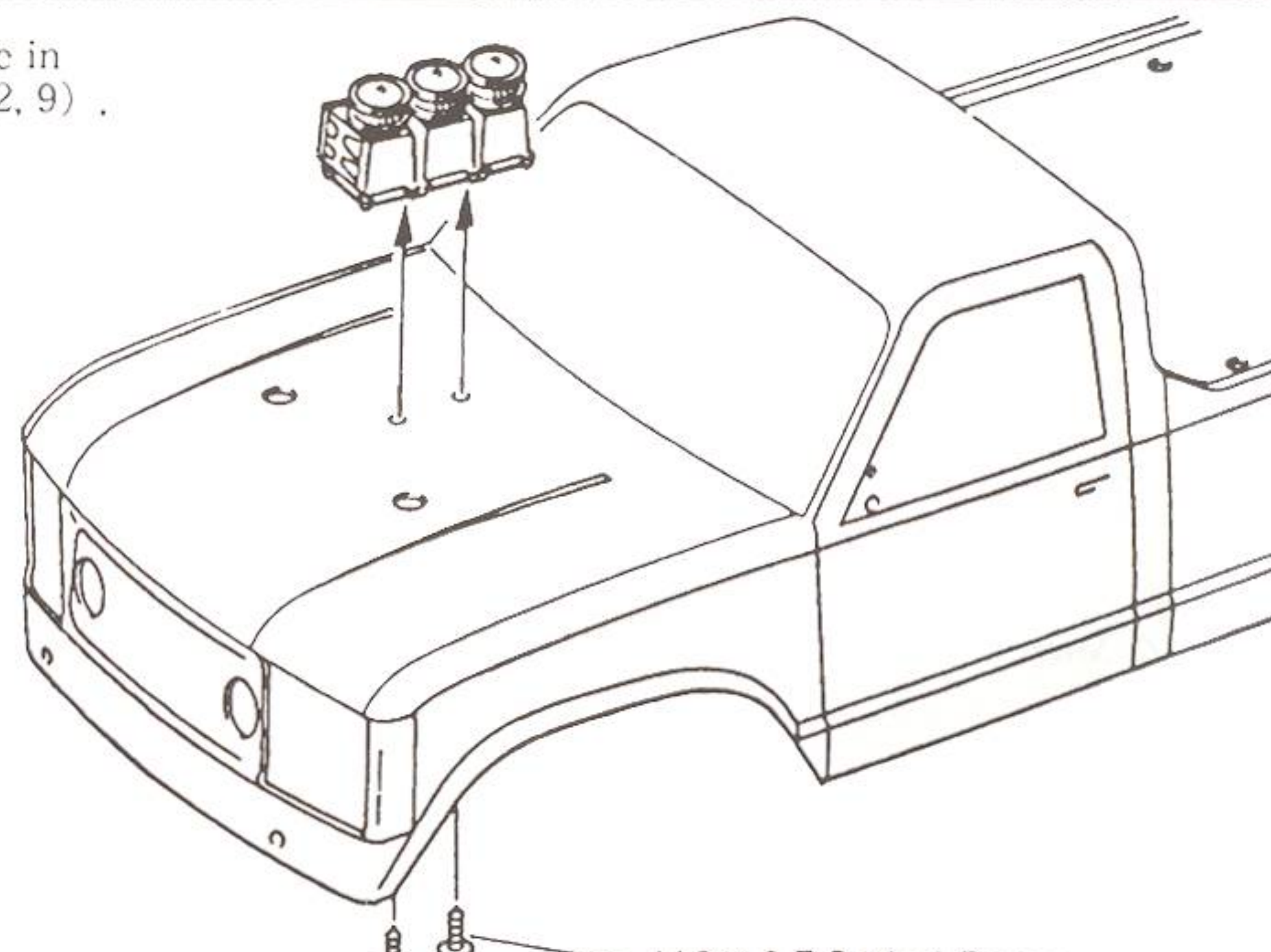
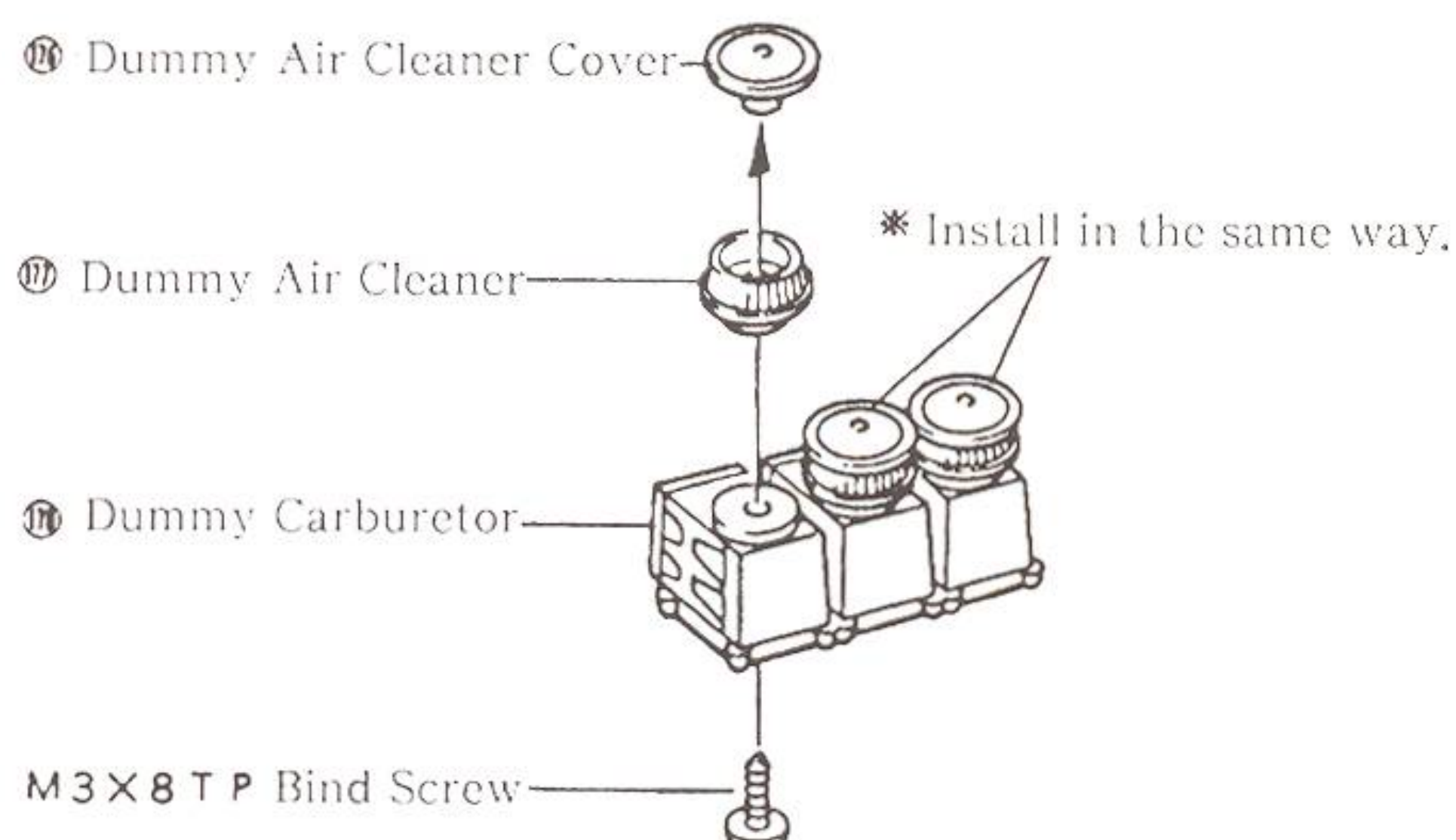
KYOSHO No 2230

- White, Red, Yellow, Blue, Skyblue, Green, Orange, Black, Violet, F. Orange, F. Pink, Yellow Green and Calsonic Blue



23 INSTALLATION OF CARBURETOR

These Parts are in the bag (US-2, 9).



24

These parts are in the bag (US-2, 9) .

Apply instant
glue and push in.
(5pcs.)

⑪ Fog Light

② Roll Bar Back Stay (R)

M2.6X8 T P
RH Screw (silver)

⑪ Fog Light Cover

⑦ Roll Bar (F)

M2.6X8 T P RH Screw
(silver)

M2.6X8 TP RH Screw
(silver)

* Install Roll Bar Back Stay (R) & (L) first.

《 PLATE OF BODY PARTS 》

Paint surface can be damaged by fuel, coating with fuel-resistant material is recommended.

※ Put on the lock ring of the right side same as the left.

Be careful about
the direction.

Push in.

25

These parts are in the bag (US-2, 9) .

Apply instant glue
then push in.

①④ Head Light Lens (R) ①⑥② Front Grill

①62 Front Grill

⑩. Head Light Lens
(L)

Upper

< direction
of lens >

Apply instant glue
then push in.

⑩ Position Light Lens

①⑥ Front Shock (Plate)

⑬ Front Grill Stopper

® Door Mirror (R)

①69 Door Mirror Stopper.

M3X8TP Bind Screw

⑩ Mirror Seal

① Door Mirror (L)

[◀ Back ▶](#)

M3X8TP Bind Screw

 Inside Body

※ Make should become inside.

< Mirror Seal Actual Size Drawing >

Cut 2 pieces
same as the actual
size drawing.

⑩ Rear Shock (Plate)

M3 X 8 T P Bind Screw

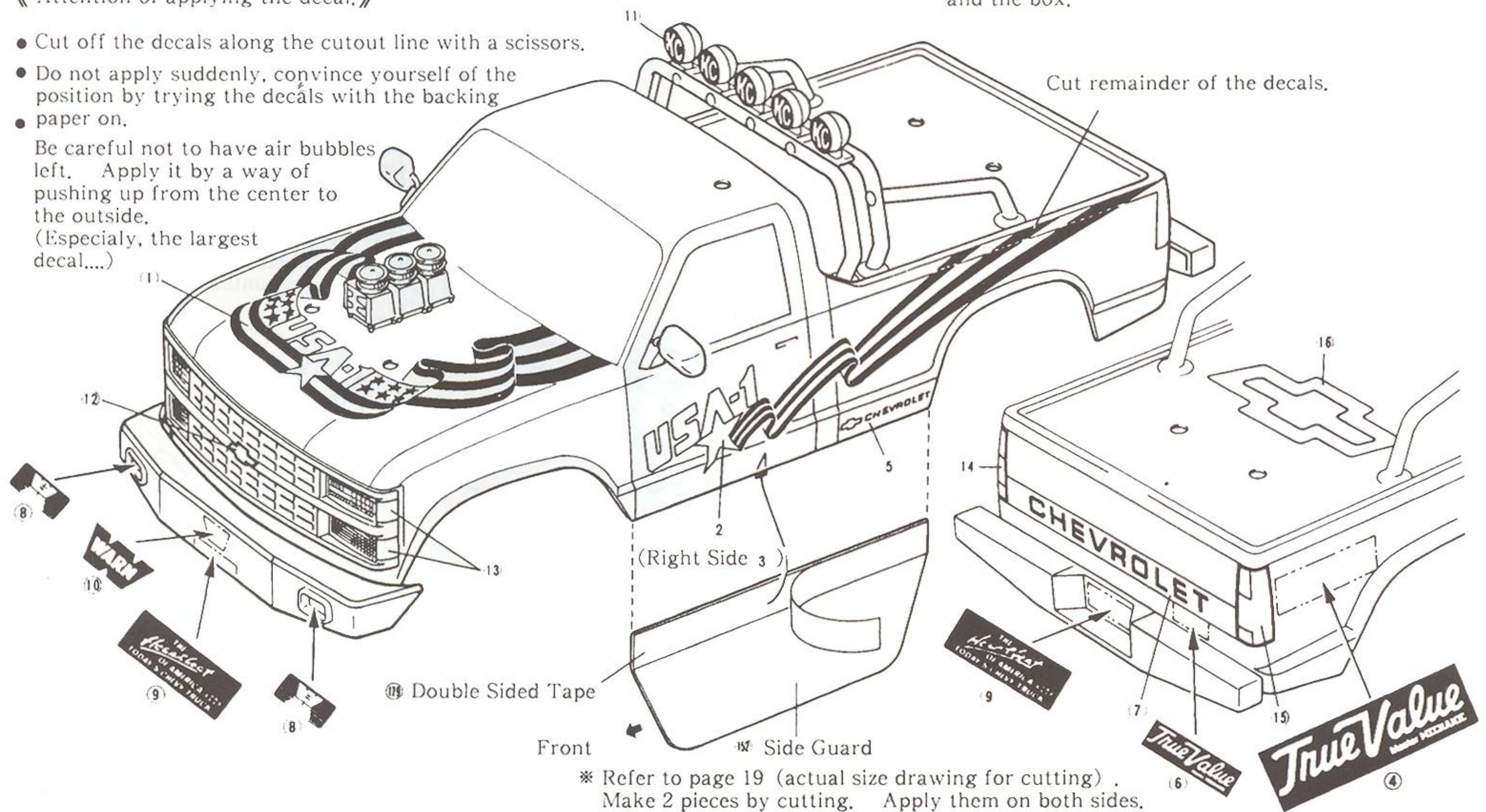
26 APPLING DECAL AND INSTALLATION OF SIDE GUARD

« Attention of applying the decal. »

- Cut off the decals along the cutout line with a scissors.
- Do not apply suddenly, convince yourself of the position by trying the decals with the backing paper on.

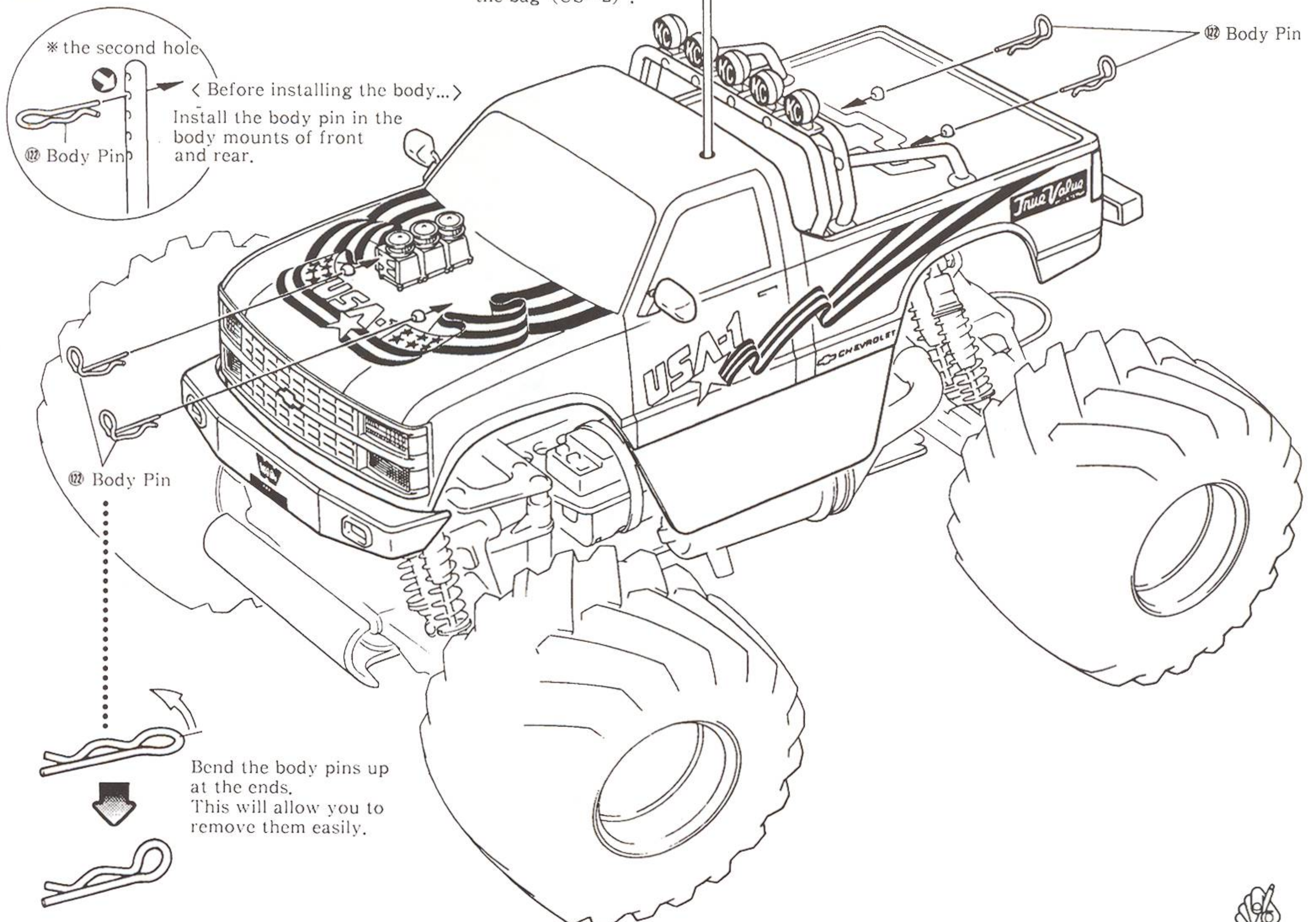
Be careful not to have air bubbles left. Apply it by a way of pushing up from the center to the outside.
(Especially, the largest decal...)

These parts are in the bag (US-9) and the box.



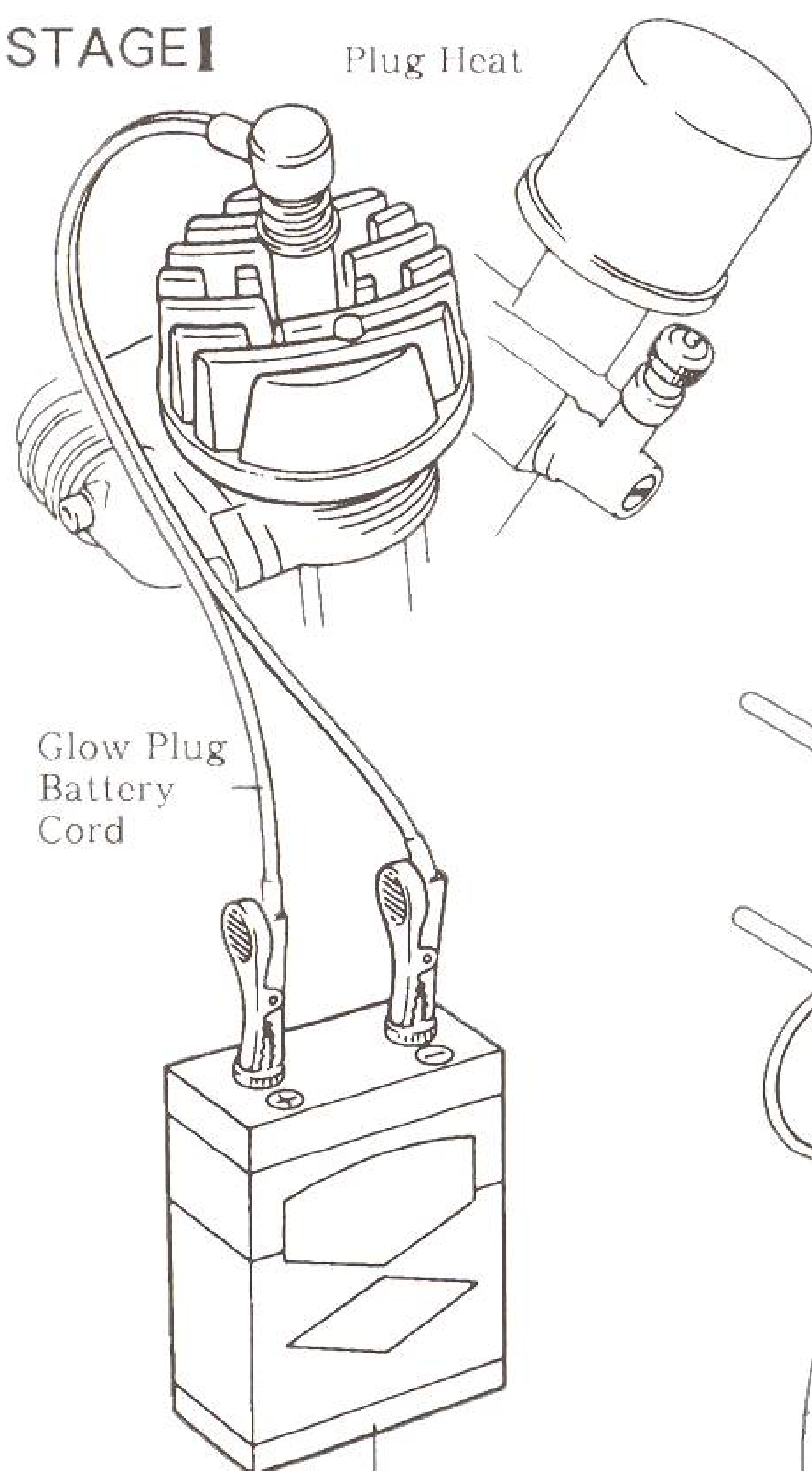
27 INSTALLATION OF BODY

These parts are in the bag (US-2).

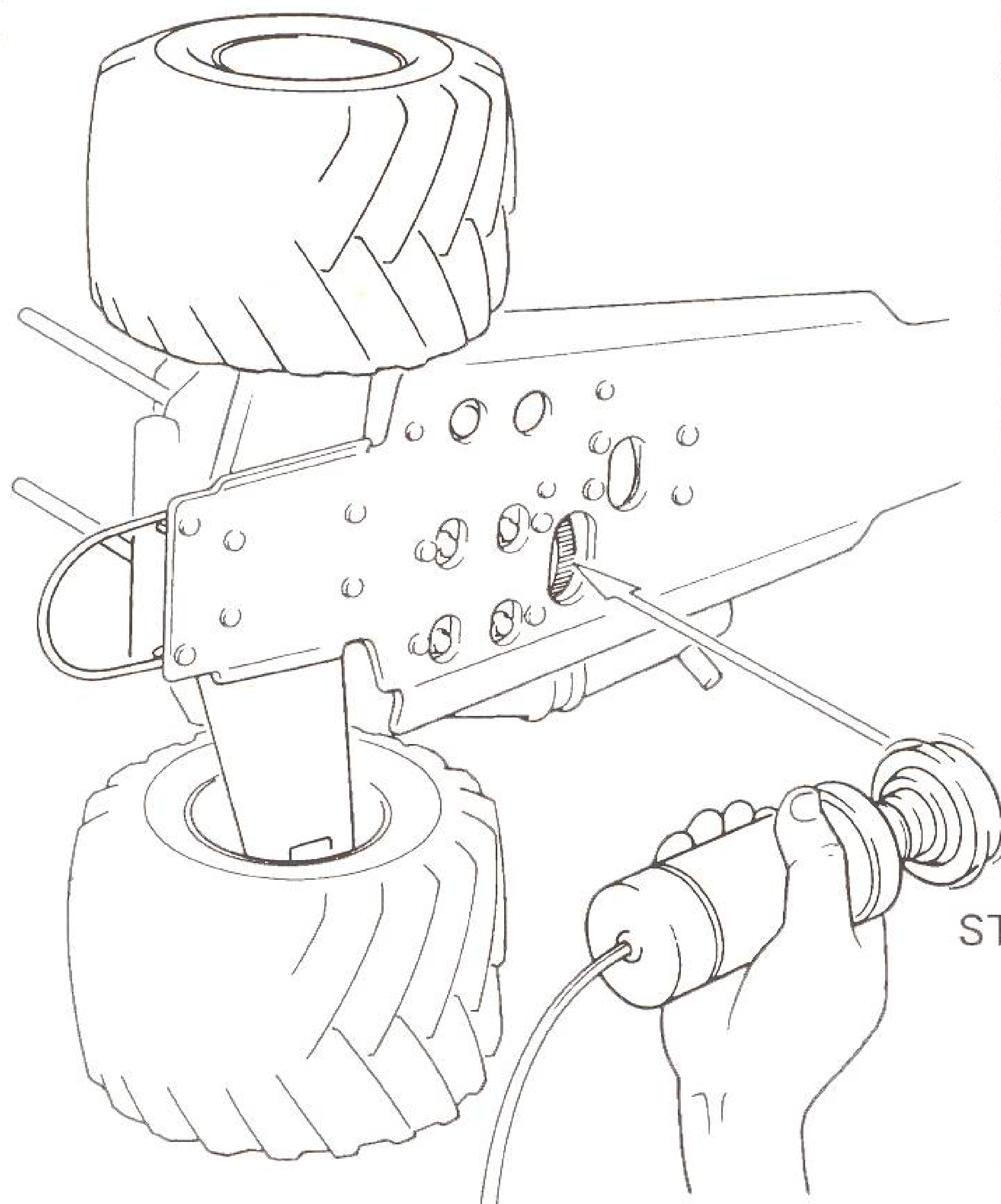


● STARTING ENGINE

STAGE I

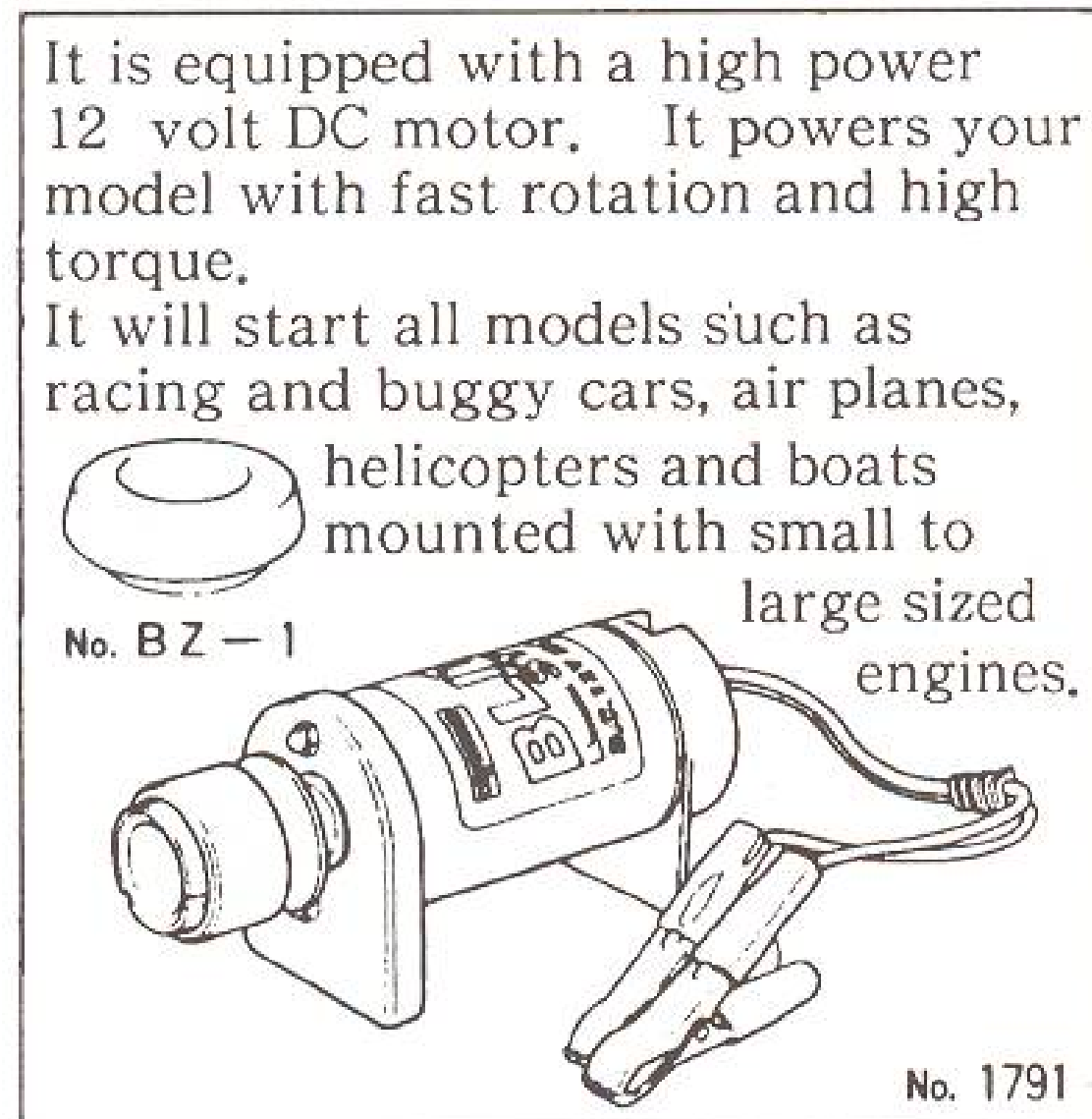


1.5V Battery for Plug Heat

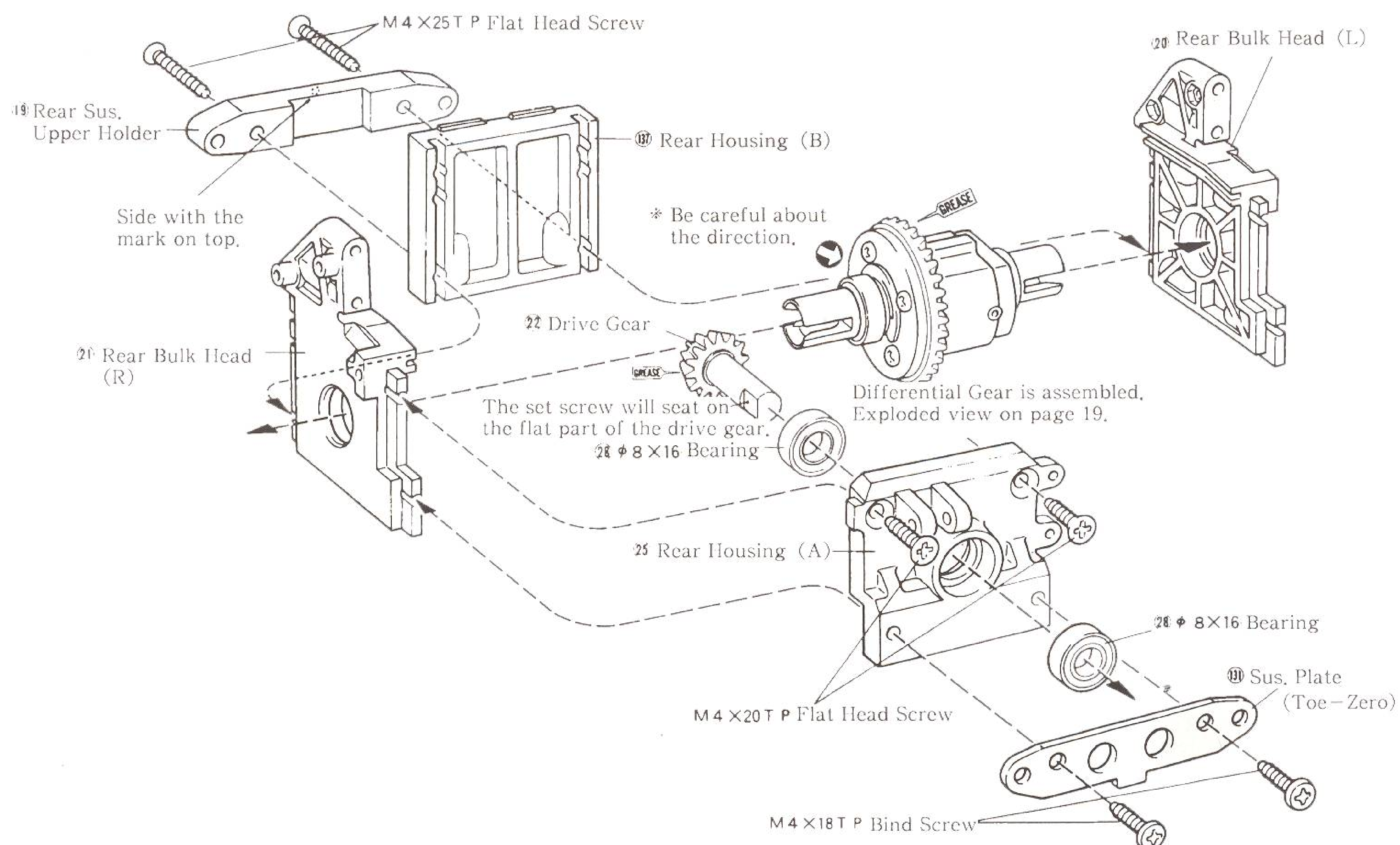


STAGE 2

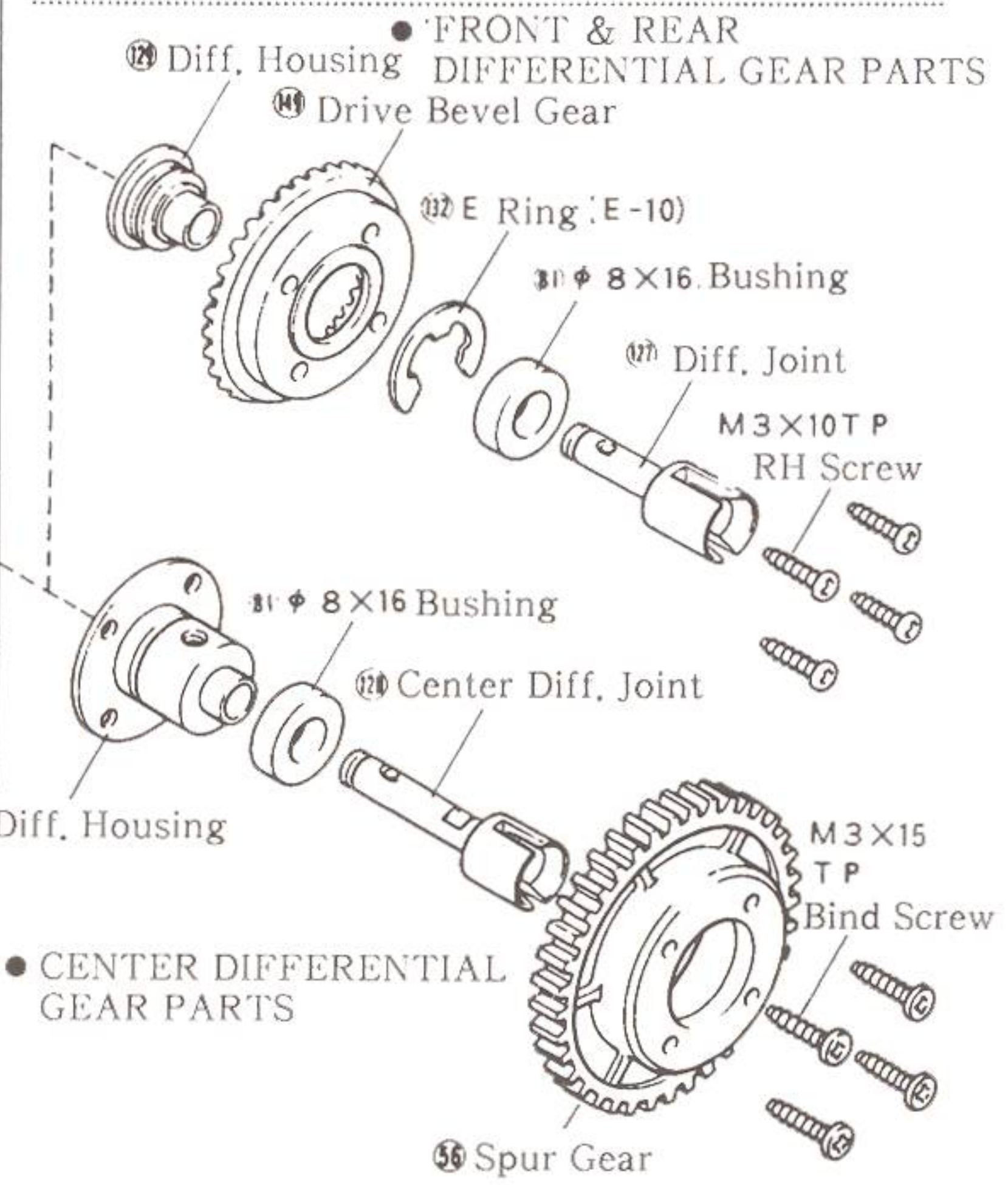
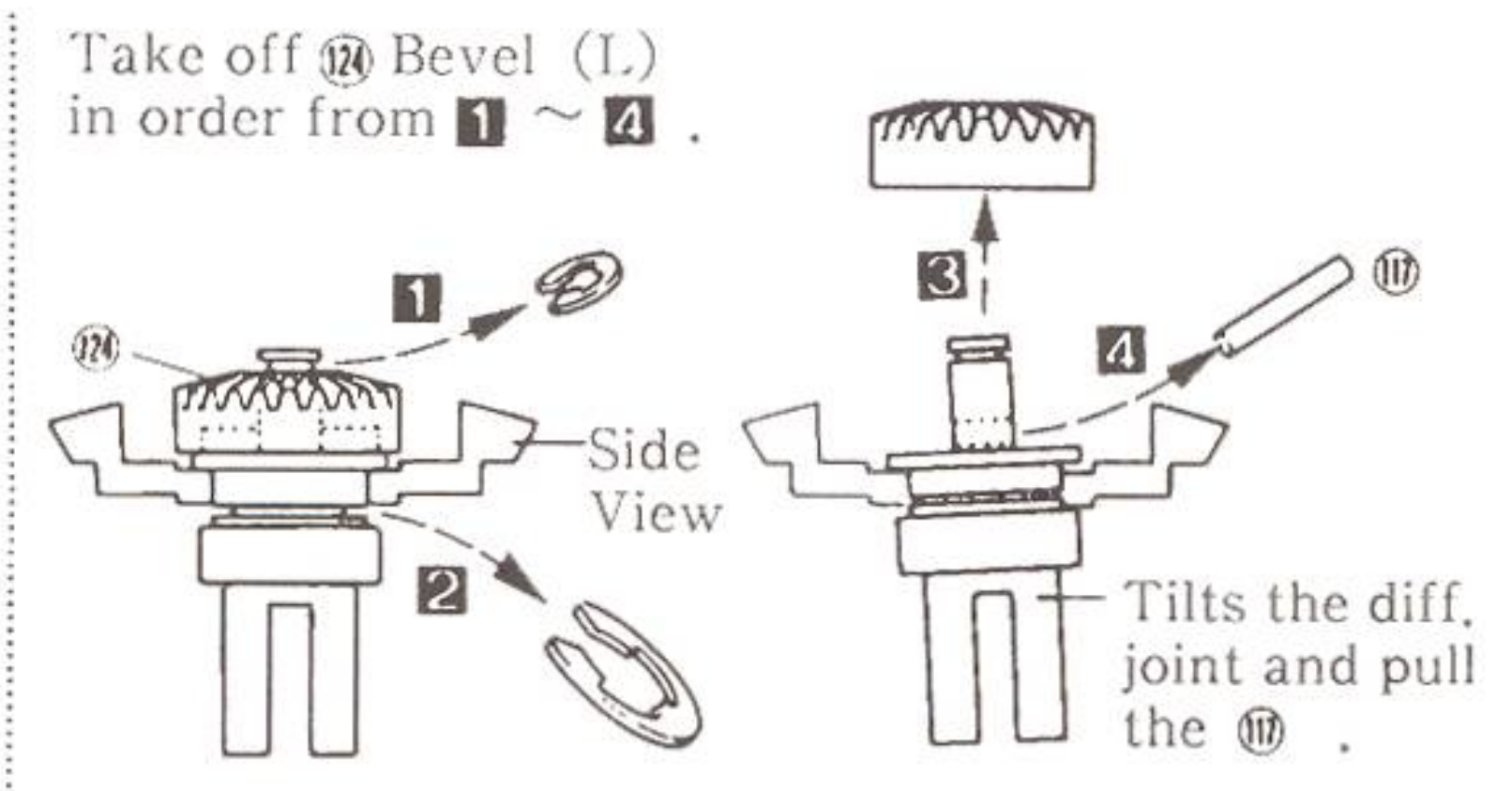
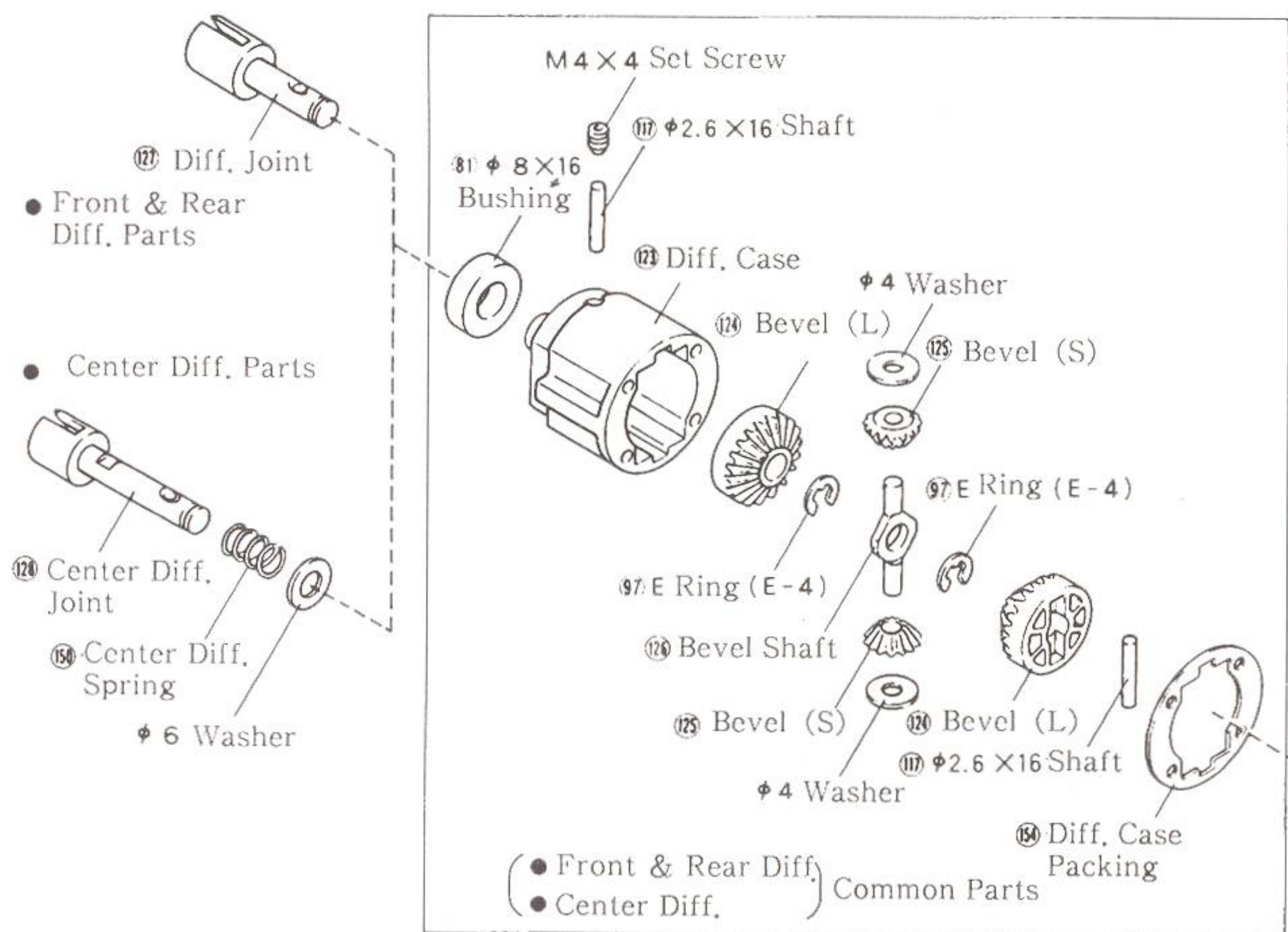
Spin the flywheel with the starter.



● EXPLODED VIEW OF REAR GEAR BOX

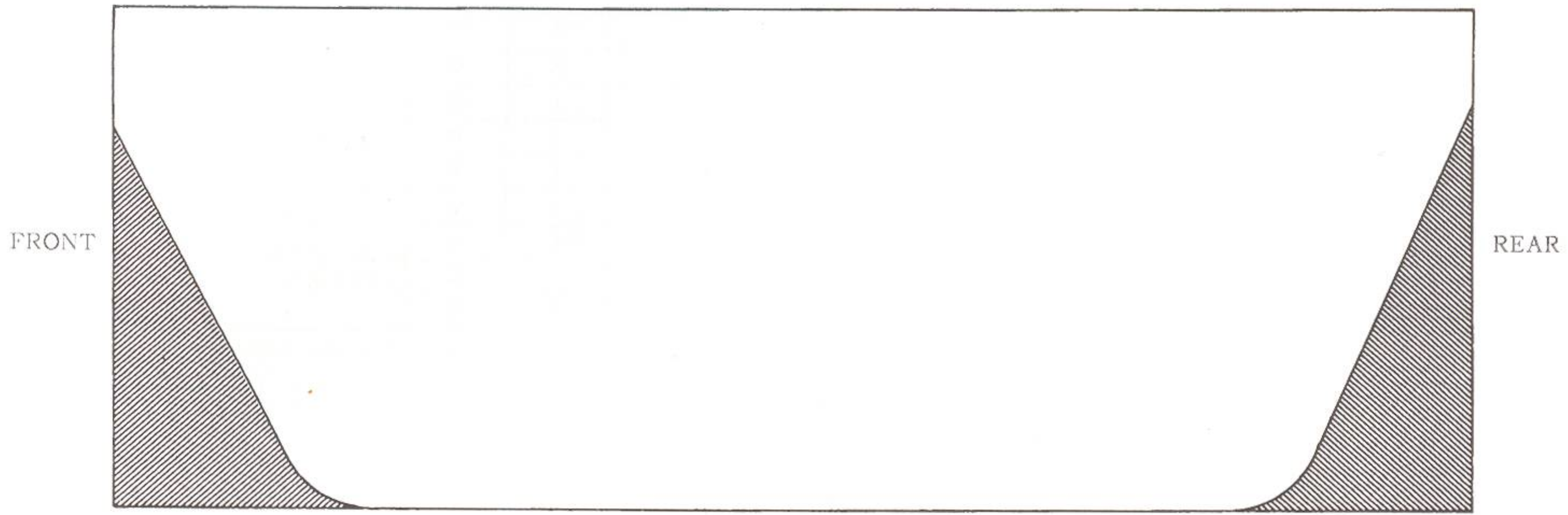


● EXPLODED VIEW OF DIFFERENTIAL GEARS.



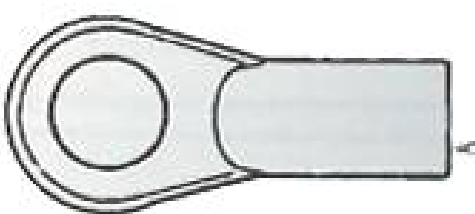
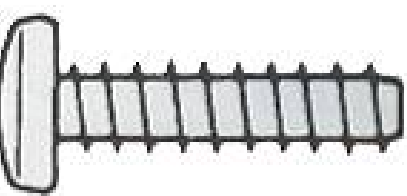
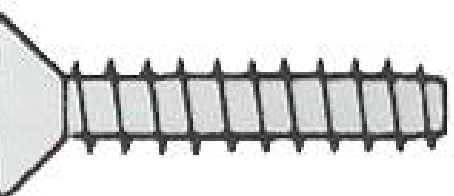
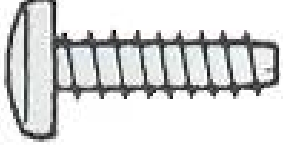
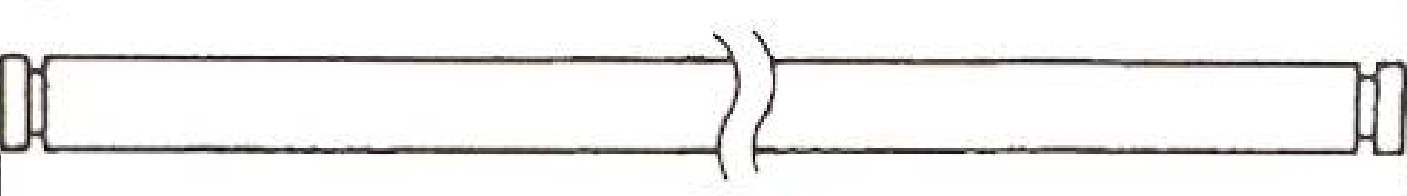
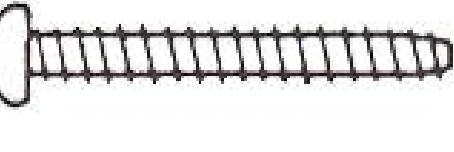
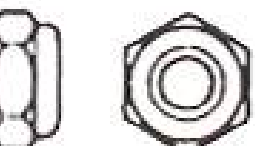
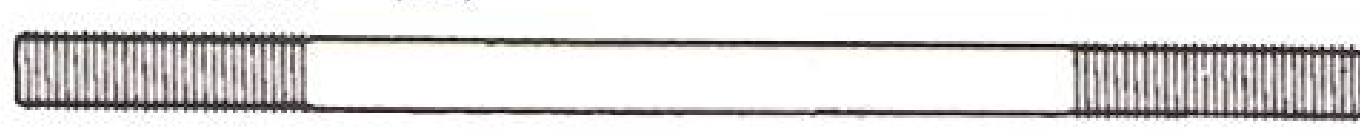
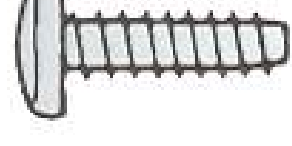
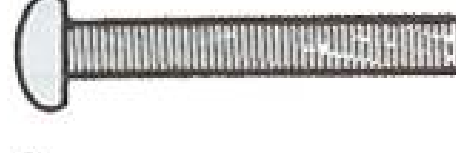
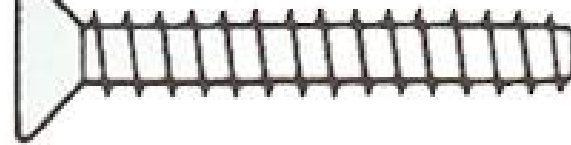
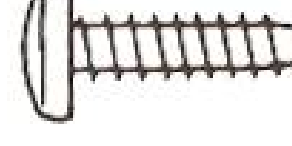
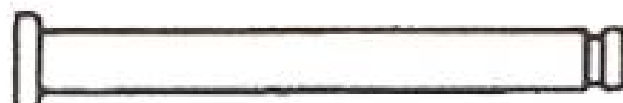
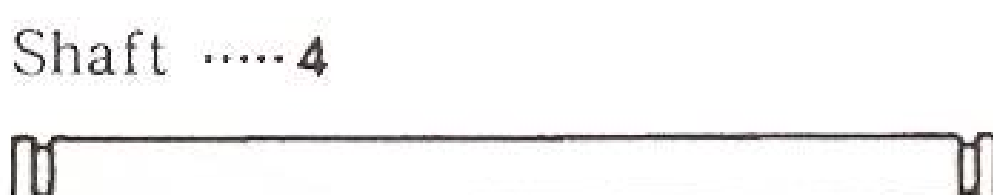
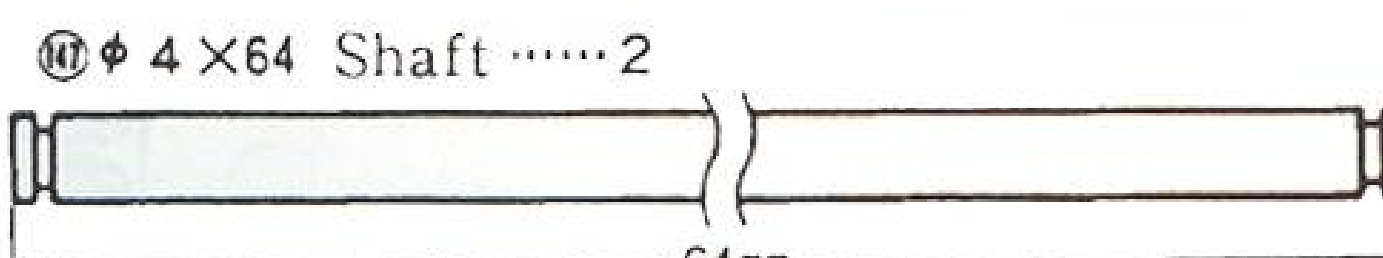
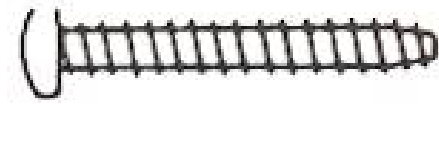
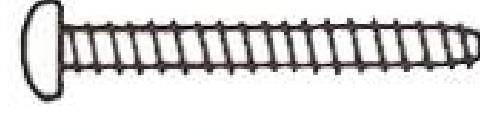
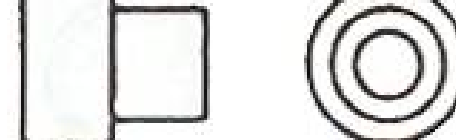
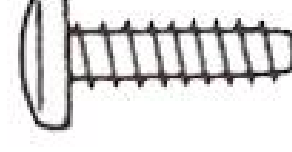
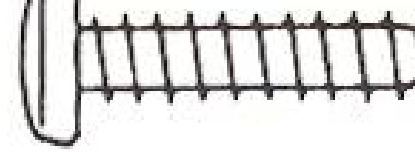
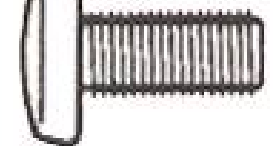
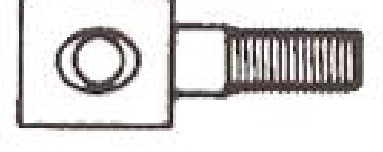
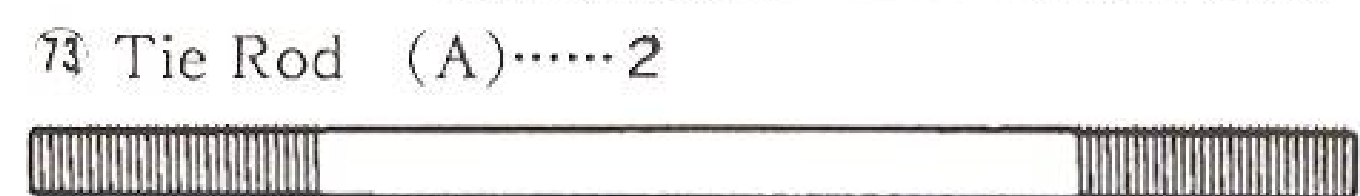
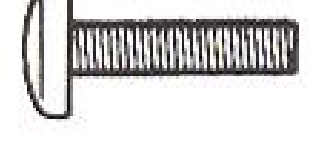
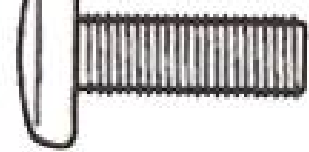
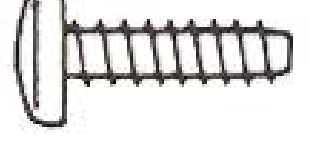
● SIDE GUARD ACTUAL SIZE DRAWING FOR CUTTING

Cut off the shaded area.



KEY NUMBER PARTS LIST

Key #	Parts Name	Q'ty	Key #	Parts Name	Q'ty	Key #	Parts Name	Q'ty
①	Shock Piston	8	⑥4	Linkage Guide (A)	1	⑫7	Differential Joint	4
②	E Ring (E-2.5)	32	⑥5	Servo Saver Shaft (A)	2	⑫8	Center Diff. Joint	2
③	Spring Holder	8	⑥6	(B)	1	⑫9	Differential Housing	2
④	Spring Adjuster	8	⑥7	Front Gear Cover	1	⑬0	Center Diff. Housing	1
⑤	Shock Ring	8	⑥8	Servo Saver Spring	1	⑬1	Sus. Plate (Toe-zero)	1
⑥	Shock Spring (gold)	8	⑥9	Servo Saver Horn (A)	1	⑬2	E Ring (E-10)	2
⑦	Shock Case	8	⑦0	(B)	1	⑬3	Front Sus. Upper Holder	1
⑧	Shock End	8	⑦1	(C)	1	⑬4	Strap (M)	3
⑨	Pressure Top	8	⑦2	E Ring (E-7)	2	⑬5	Rear Shock	1
⑩	Shock Cap	8	⑦3	Tie Rod (A)	3	⑬6	Servo Spacer	2
⑪	Shock Shaft	8	⑦4	(B)	1	⑬7	Rear Housing (B)	1
⑫	Shock Pivot No 1	1	⑦5	φ 6 Aluminum Collar	2	⑬8	Front Suspension Arm	2
⑬	No 2	1	⑦6	Antenna Pipe	1	⑬9	Silicone Grease	1
⑭	No 3	1	⑦7	Radio Plate	1	⑭0	Screw Locking Compound	1
⑮	No 4	1	⑦8	Switch Boot	1	⑭1	Rear Hub (L)	1
⑯	Front Body Mount	2	⑦9	Servo Fixing Post	4	⑭2	Engine Control Rod	1
⑰	Rear	2	⑧0	Strap (L)	1	⑭3	Main Chassis	1
⑱	Rear Suspension Holder	1	⑧1	φ 8×16 Bushing	16	⑭4	Upper Suspension (C)	2
⑲	Rear Sus. Upper Holer	1	⑧2	Center Shaft	2	⑭5	Decal	1
⑳	Rear Bulk Head (L)	1	⑧3	Mount Plate	2	⑭6	Air Cleaner	1 set
㉑	(R)	1	⑧4	Torque Rod Pivot	1	⑭7	φ 4×64 Shaft	2
㉒	Drive Gear	2	⑧5	Fuel Tank Pivot	1	⑭8	φ 38 Muffler Baffle	1
㉓	Joint	2	⑧6	Bumper	1	⑭9	Drive Bevel Gear	2
㉔	Suspension Plate	1	⑧7	Manifold	1	⑮0	Center Diff. Spring	1
㉕	Rear Housing (A)	1	⑧8	Engine Mount	2	⑮1	Radio Cover	1
㉖	Rear Suspension Arm	2	⑧9	Flywheel	1	⑮2	Side Guard	2
㉗	Rear Hub (R)	1	⑨0	Clutch Pin	2	⑮3	Brake Rod	1
㉘	φ 8×16 Bearing	2	⑨1	Pilot Shaft	1	⑮4	Diff. Case Packing	3
㉙	Upper Suspension (A)	2	⑨2	Clutch Shoe	2	⑮5	φ 5×10 Bearing	2
㉚	(B)	4	⑨3	Clutch Spring	1	⑮6	φ 5×10 Collar	1
㉛	M 5×35 Shaft	4	⑨4	Clutch Bearing Case	1	⑮7	Counter Gear	1
㉜	Rear Wheel Shaft	2	⑨5	Clutch Roller	8	⑮8	Counter Gear Mount	1
㉝	Swing Shaft	2	⑨6	Clutch Bell (13T)	1	⑮9	Counter Gear Shaft	1
㉞	Rear Shock Stay	1	⑨7	E Ring (E-4)	1	⑯0	Rear Bumper (Plate)	1
㉟	φ 3×27 Shaft	4	⑨8	Muffler (A)	1	⑯1	Front Bumper (Plate)	1
㊱	φ 3×44	8	⑨9	(B)	1	⑯2	Front Grill	1
㊲	φ 4×77	2	⑩0	Servo Fixing Stay (A)	1	⑯3	Front Grill Stopper	2
㊳	E Ring (E-3)	9	⑩1	(B)	1	⑯4	Headlight Lens (R)	1
㊴	φ 3 Stopper	4	⑩2	Tank Cap	1	⑯5	(L)	1
㊵	Rear Gear Cover	1	⑩3	Tank Seal	1	⑯6	Position Light Lens	2
㊶	Shock Bush	8	⑩4	Fuel Tank	1	⑯7	Door Mirror (R)	1
㊷	φ 6.8 Ball	7	⑩5	Aluminum Pipe	1	⑯8	(L)	1
㊸	φ 6.8 Ball End	8	⑩6	Rubber Bush	1	⑯9	Door Mirror Stopper	2
㊹	φ 8 Aluminum Collar	2	⑩7	Tube	1	⑰0	Roll Bar (F)	1
㊺	Front Housing (A)	1	⑩8	Plate Joint	1	⑰1	(R)	1
㊻	(B)	1	⑩9	Steering Rod	1	⑰2	Roll Bar Back Stay (R)	1
㊼	Front Bulk Head (R)	1	⑪0	φ 2 Stopper	5	⑰3	(L)	1
㊽	(L)	1	⑪1	Engine Control Spring	1	⑰4	Fog Light Cover	5
㊾	Front Shock Stay	1	⑪2	Linkage Guide (B)	1	⑰5	Fog Light	1
㊿	Knuckle Arm (R)	1	⑪3	Wheel	4	⑰6	Dummy Air Cleaner Cover	3
51	(L)	1	⑪4	Tire	4	⑰7	Dummy Air Cleaner	3
52	Hub Carrier (R)	1	⑪5	Brake Lining	2	⑰8	Carburetor	1
53	(L)	1	⑪6	Universal Joint	2	⑰9	Double Sided Tape	1
54	King Pin	4	⑪7	φ 2.6×16 Shaft	4	⑱0	Mirror Seal	1
55	M 3 Pivot Ball	8	⑪8	Wheel Stopper	4	⑱1	Shock Oil	2
56	Spur Gear	1	⑪9	O Ring (L)	4			
57	Center Diff. Housing (A)	1	⑫0	Wheel Stopper Bolt	4	⑱3	φ 8×16 Washer (Alumi.)	4
58	(B)	1	⑫1	Body	1	⑱4	φ 5 Lock Ring	6
59	Disk Brake	1	⑫2	Body Pin	8			
60	Brake Pads	2	⑫3	Differential Case	3			
61	Brake Cam	1	⑫4	Bevel (L)	6			
62	Brake Stopper	1	⑫5	(S)	6			
63	Brake Lever	1	⑫6	Bevel Shaft	3			

1 ASSEMBLY OF SHOCK② E Ring (E-2.5) 16 ⑧ Shock End 8 **3 ASSEMBLY OF REAR GEAR BOX**M4X15TP Bind Screw.....4 M3X18 Cap Screw 4 M4X20TP Flat Head Screw 2 M4X25TP Flat Head Screw 2 M3 Flange Nut 4 ② E Ring (E-2.5) 4 M5X4 Set Screw..... 1 ③ M5X35 Shaft 2 ③⑥ φ 3X44 Shaft 2 **4 INSTALLATION OF REAR SUSPENSION ARM**M3X10TP Bind Screw 4 M3X3 Set Screw..... 2 M4X12 Set Screw..... 2 ② E Ring (E-2.5) 4 ③⑧ E Ring (E-3) 4 ③③ φ 3X27 Shaft 2 ③⑥ φ 3X44 Shaft 2 ③⑦ φ 4X77 Shaft 2 **5 INSTALLATION OF REAR SHOCK**M2.6X18TP Round Head Screw 4 M3X15 Bind Screw 1 M3 Nylon Nut 4 ③⑤ M3 Pivot Ball (silver) 4 ⑦③ Tie Rod (A) 1 ④① Shock Bush 4 ④③ φ 6.8 Ball End 2 **6 ASSEMBLY OF FRONT GEAR BOX**M3X10TP Bind Screw 2 M3X18 Cap Screw 4 M3X18 Round Head Screw 2 M4X20TP Flat Head Screw 2 M4X25TP Flat Head Screw 2 M5X4 Set Screw 1 M3 Flange Nut 6 **7 INSTALLATION OF FRONT SUSPENSION ARM**M3X10TP Bind Screw 4 M3X3 Set Screw 2 M4X12 Set Screw 2 ② E Ring (E-2.5) 8 ③⑧ E Ring (E-3) 4 ③① M5X35 Shaft 2 ③⑤ φ 3X27 Shaft 2 ③⑥ φ 3X44 Shaft 4 ⑩ φ 4X64 Shaft 2 **8 INSTALLATION OF FRONT SHOCK**M2.6X16TP Round Head Screw 2 M2.6X18TP Round Head Screw 2 M3 Nylon Nut 4 (B) ③⑤ M3 Pivot Ball (silver) 4 ④① Shock Bush 4 **9 INSTALLATION OF BRAKE & COUNTER GEAR**M3X10TP Bind Screw 2 M4X15TP Bind Screw 4 M4X8 Bind Screw 3 M3X18 Cap Screw 2 M3X3 Set Screw 1 M5 Flange Nut 1 ⑨⑦ E Ring (E-4) 1 φ 5X10 Washer 1 φ 5X12 Washer 2 ③⑥ φ 5X10 Collar 1 **11 ASSEMBLY OF STEERING PORTION**M3X25 Bind Screw 2 M4X8 Bind Screw 2 M3 Nylon Nut 3 ⑥④ Linkage Guide (A) 1 φ 3 Washer 4 ⑦⑤ φ 6 Aluminum Collar 2 ④③ φ 6.8 Ball End 6 ⑦④ Tie Rod (B) 1 ⑦③ Tie Rod (A) 2 **12 INSTALLATION OF RADIO SYSTEM**M3X15TP Bind Screw 4 ⑦⑨ Servo Fixing Post 2 **13 INSTALLATION OF REAR ASSEMBLY**M3X10 Bind Screw 1 M4X10 Bind Screw 2 M3X10TP Bind Screw 1 M4X15TP Bind Screw 4 M4 Flange Nut 2 **14 INSTALLATION OF FRONT ASSEMBLY**M3X12 Flat Head Screw 2 M4X20TP Flat Head Screw 2 M4X15TP Bind Screw 4 

(ACTUAL SIZE DRAWING)

SMALL PARTS USED IN EACH ASSEMBLY STEP (2)

15 INSTALLATION OF CLUTCH

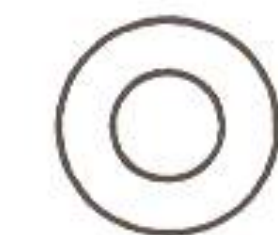
M3X10 Cap Screw...5



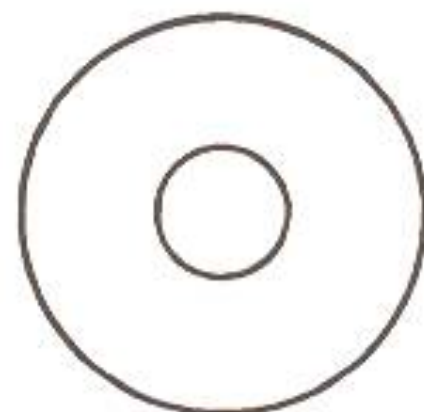
M3X25 Cap Screw...1



φ 5X10 Washer...1



φ 6X18 Washer...1



E Ring (E-3)...1



16 INSTALLATION OF ENGINE & ENGINE CONTROL SERVO

M3X10 T P.
Bind Screw...2



M3X15 T P.
Bind Screw...6



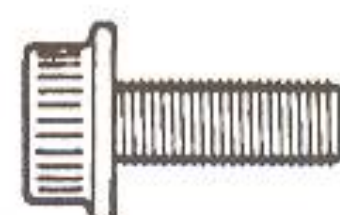
M3X15
Bind Screw...1



M4X8
Bind Screw...4



M4X10
Flange Cap Screw...4



M3 Nylon Nut...1



φ 6 Rubber Bush...1



φ 6 Aluminum
Pipe...1



• In case of large servo...

⑬ Servo Spacer...2



17 INSTALLATION OF RADIO PLATE

M3X10 T P.
Bind Screw...4



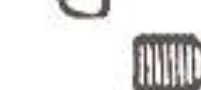
M4X15 T P.
Bind Screw...2



M4X15
Bind Screw...2



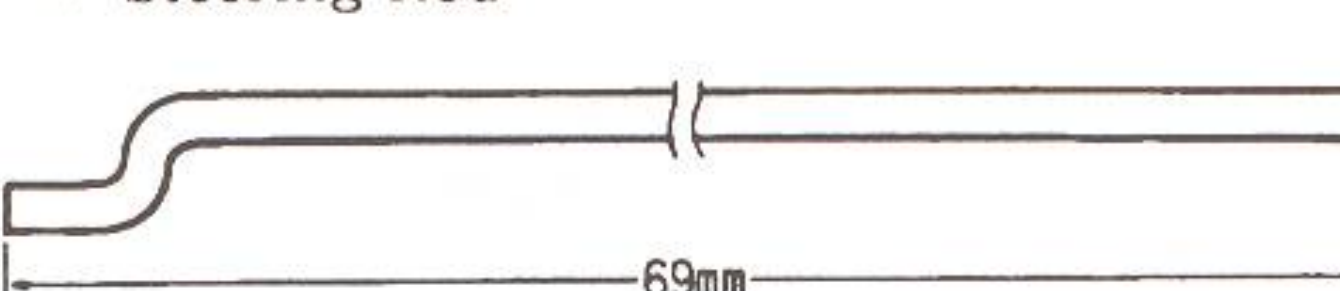
M3X3 Set Screw...1



④ 8 φ Aluminum...2
Collar



⑩ Steering Rod...1



18 LINKAGE OF ENGINE CONTROL

M3X3 Set Screw...5



M2 Nut...1



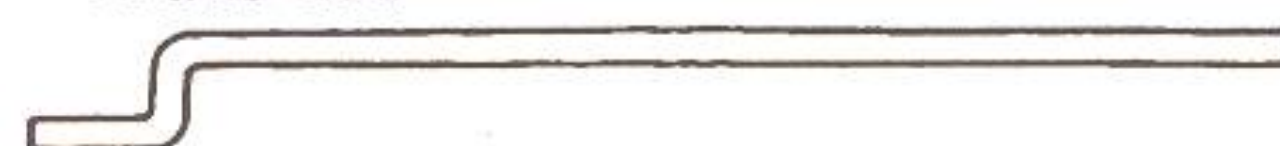
φ 2 Stopper...5



⑫ Linkage Guide...1
(B)

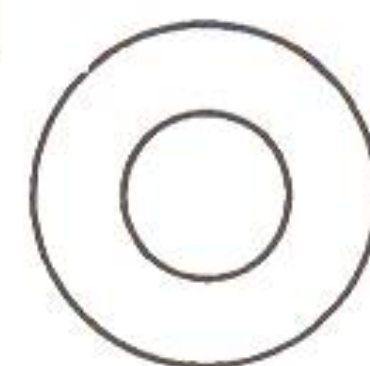


⑬ Brake Rod...1

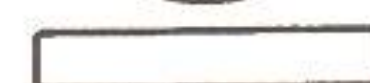


20 INSTALLATION OF TIRE

φ 8X16 Washer...4
(Aluminum)



φ 2.6X16 Shaft...4



O Ring (L)...4



23 INSTALLATION OF CARBURETOR

M3X8 T P Bind Screw...5



24 ASSEMBLY OF ROLL BAR

M2.6X8 T P (silver) ...10
Round Head Screw



25 INSTALLATION OF ACCESSORIES PARTS

M3X8 T P
Bind Screw...6

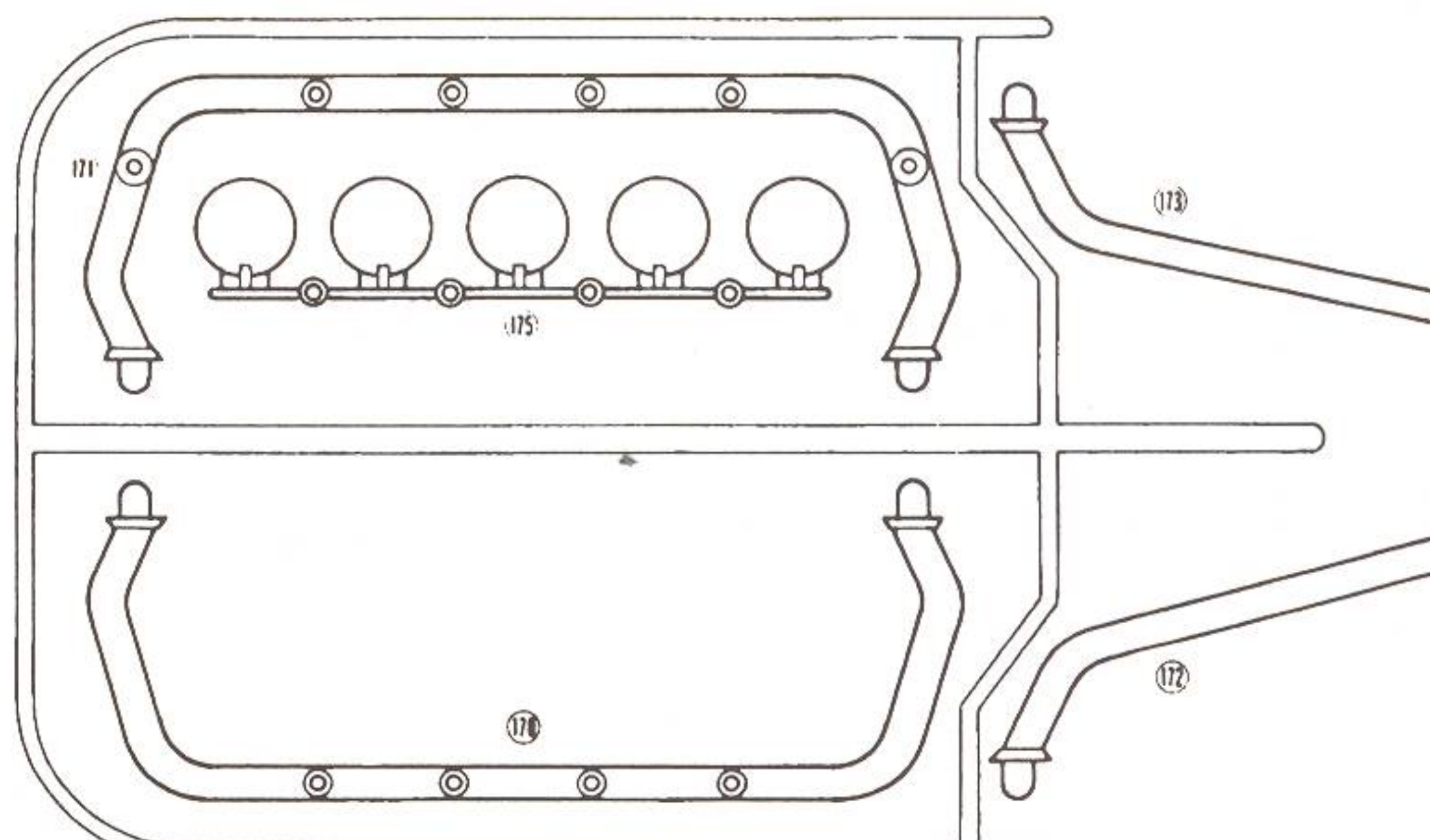
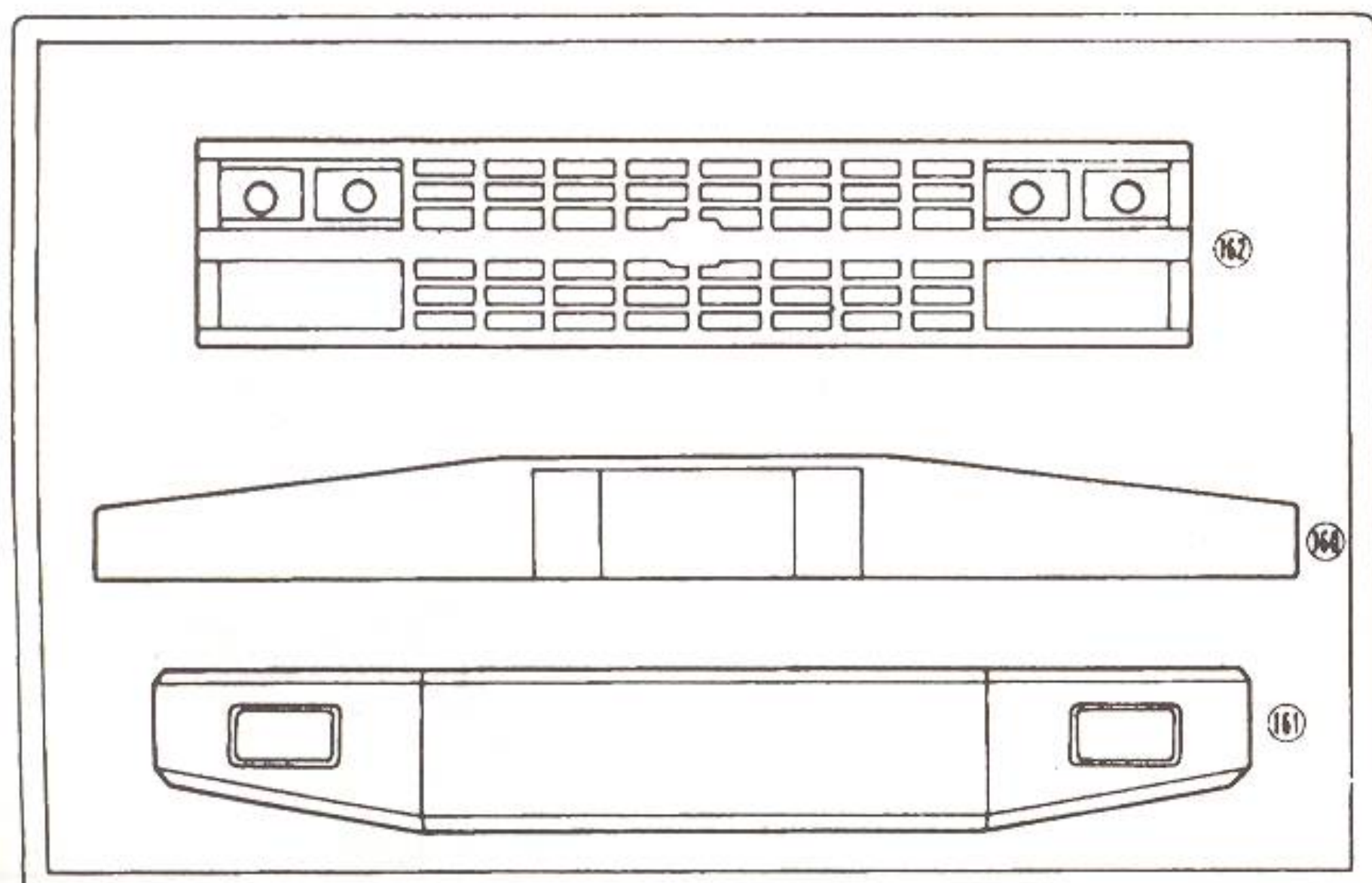
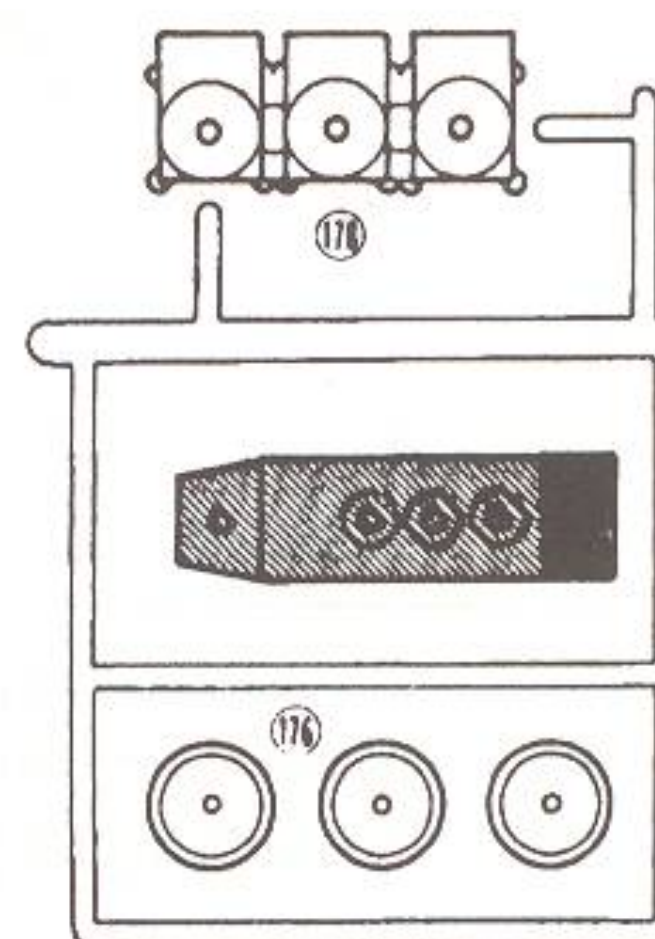
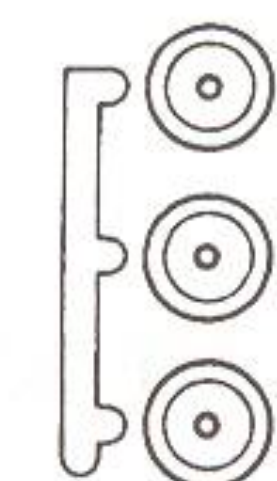
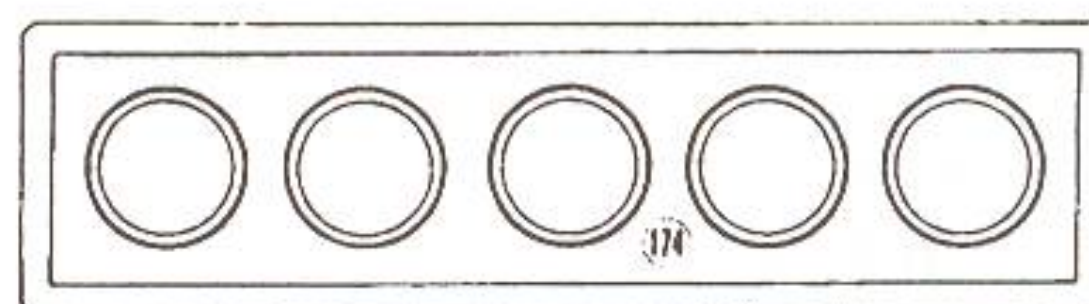
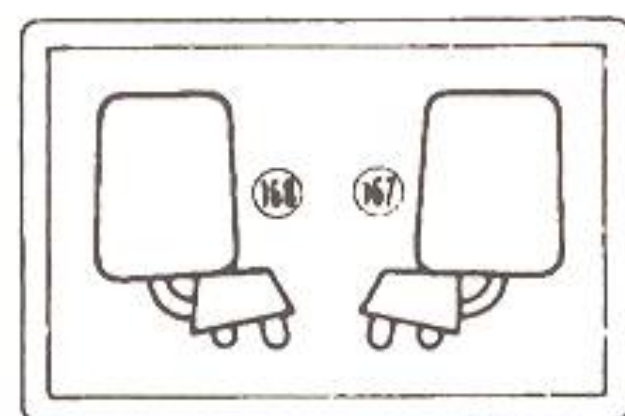
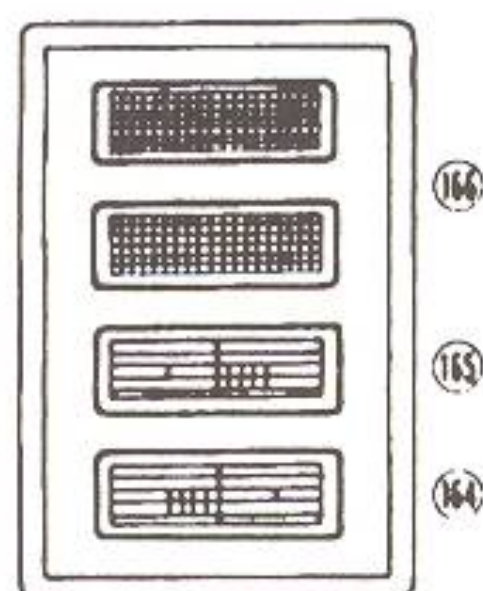
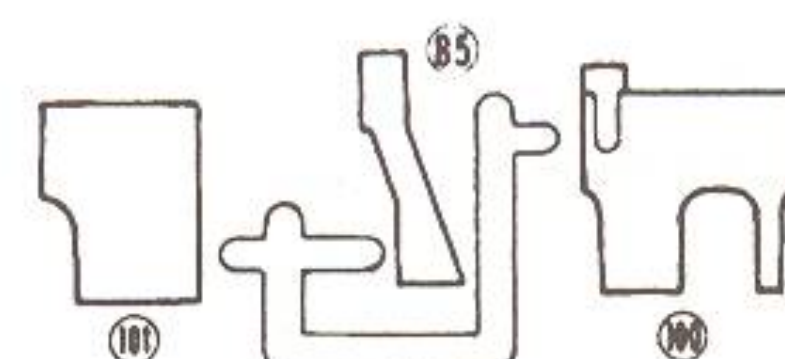
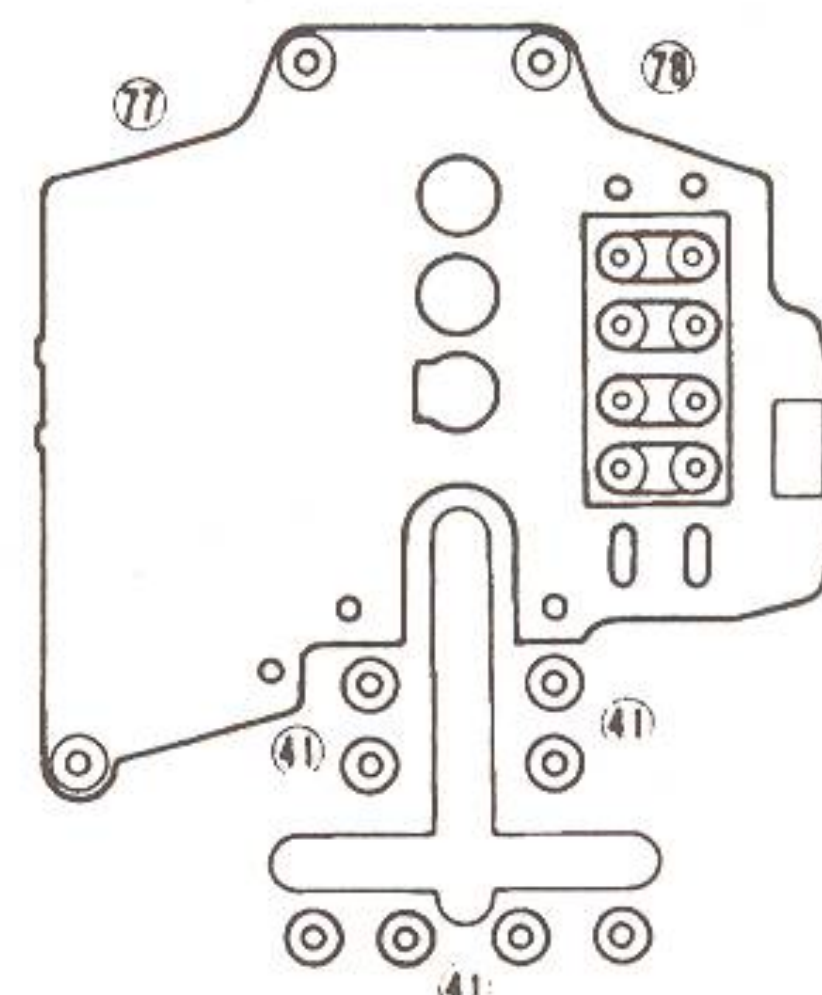
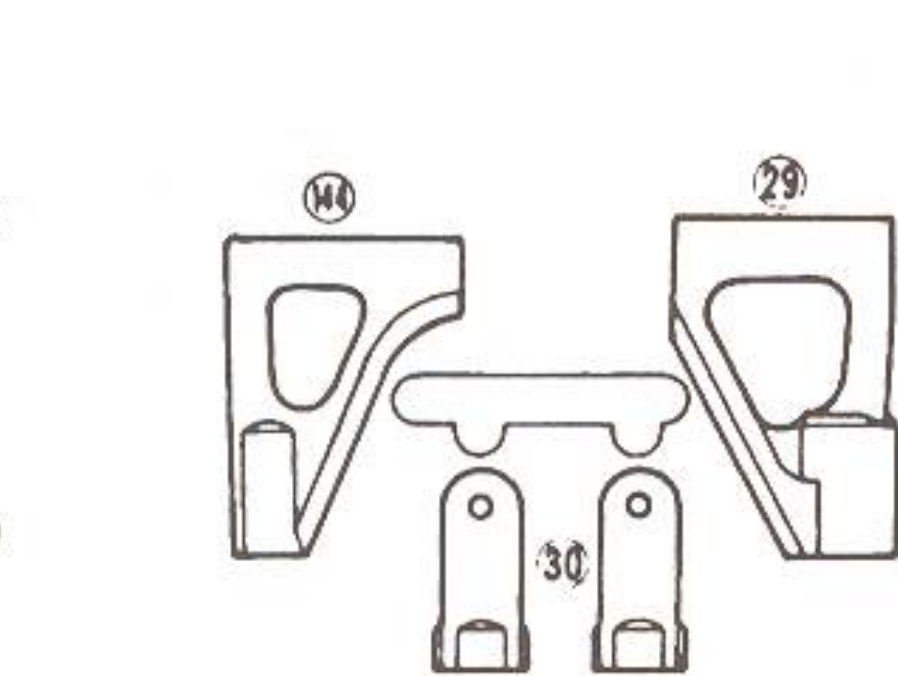
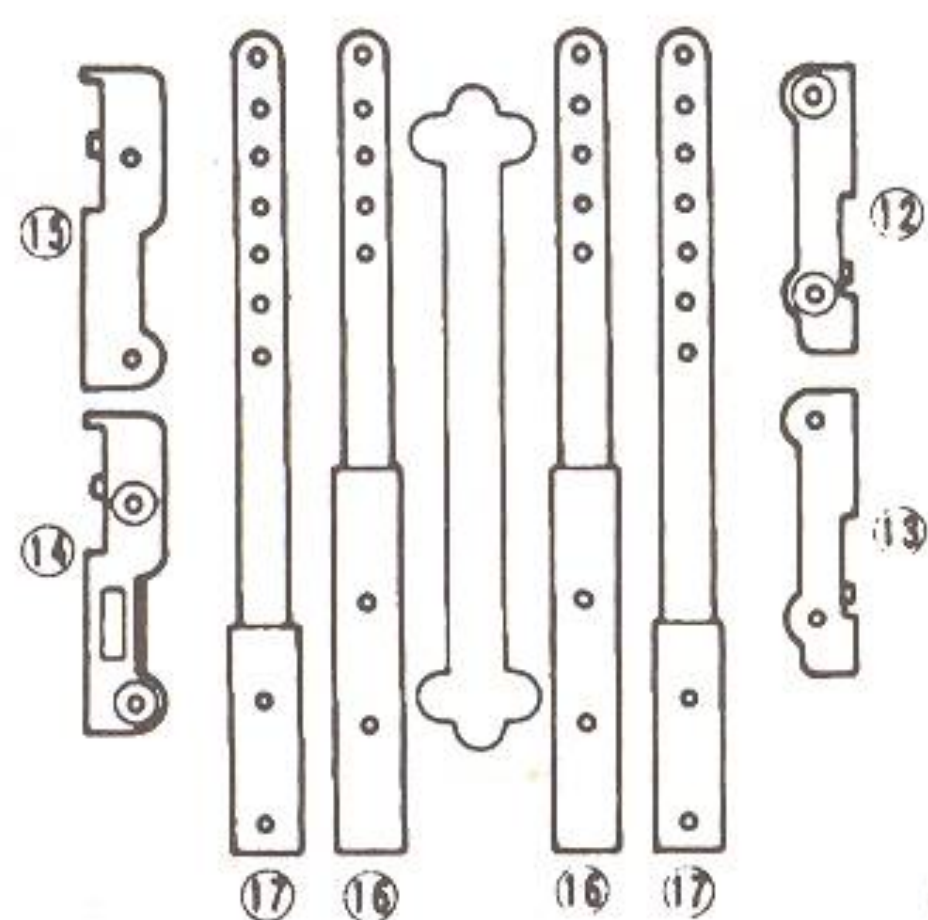


⑩ Door Mirror
Stopper...2



DRAWING OF PLASTIC PARTS WITH RUNNERS

※ Do not use the shaded parts.



PURCHASABLE PARTS FOR YOUR KIT

You can purchase replacement optional parts for your kit. All of the part identified by key number are usually not available singularly, but we offer these parts in convenient parts "packs" which can be purchased separately. To figure out which parts pack you need, find the key number for that part within the manual.

Then consult out part guide below. When referring to the parts you need, always use the Parts Pack Number. For example, if you need a King Pin (Key # 34) ask your dealer for Kyosho Parts Pack KC-7 (King Pin) .

No.	Parts Name	Key # & Q'ty
BS-3	Sus. Holder Set	18-19-37-38-39-40-41-42 X1 43 X2
BS-4	Rear Bulk Head	20-21-25-26 X1
BS-5	Front Bulk Head	43-46-47-48 X1
BS-6	Lower Sus. Arm Set	26-27 X2
BS-7	Upper Sus. Arm Set	29-30 X2 31 X4
BS-8	Front Hub Carrier	52-53 X1
BS-9	Rear Hub Carrier	27-28 X1
BS-10	Front Shock	36 X1
BS-12	Radio Plate	77 X1 41-79 X4
BS-13	Shaft Set	35-36 X8 37-38 X2
BS-14	Drive Bevel Gear Set	22-23 X1
BS-16	φ 8X16 Bearing	28 X2
BS-17	Rear Wheel Shaft	32 X2
BS-18	Gear Cover	40-41 X1
BS-21	Brake Set	59-61-62-63-64 X1 60-65 X2
BS-22	Servo Saver Set	66-68-69-70-71 X1 65 X2 72 X4
BS-23	Tie Rod Set	74 X1 73 X2 42-43 X6
BS-25	Engine Mount	83-88 X2
BS-26	Manifold	87 X1
BS-27	Muffler	98-99-100 X1 101 X2
BS-28	Fuel Tank Set	102-103-104-105-106-107 X1
BS-33	Wheel Stopper Set	107-108-109 X4
BS-35	Diff. Case	123 X1 124 X1
BS-36	Diff. Bevel (L)	125 X2
BS-37	• (S)	126 X2
BS-38	Bevel Shaft	127 X2
BS-39	Diff. Joint	128 X2
BS-40	Center Diff. Joint	129 X2
BS-41	Diff. Housing	130 X1
BS-42	Center Diff. Housing	131-132 X1
BS-43	Linkage Set	64-65-66-67-68 X1 69 X6
BS-44	Flywheel	89 X1 90 X2
BS-45	Swing Shaft	33 X2
BS-46	φ 6.8 Ball	42 X10
BS-47	E Ring(E-10)	103 X10
BS-50	Aluminum Collar Set	84 X1 44-75 X2
BS-51	Main Chassis	10 X1
BS-52	φ 2.6X16 Shaft	107 X10
BS-55	Wheel Stopper Bolt	120-121 X6
BS-20	Universal Joint	116 X2
BS-76	Cut Knuckle Arm	50-51 X1
BS-77	φ 8X16 Bushing	81 X2
BS-78	Radio Cover	150 X1
BS-79	Switch Boot	78 X3
BS-80	Shock Stay (USA-1)	24-34-49-100 X1 GP
BS-81	Rear Bumper (")	133 X1 GP
BS-82	Body (USA-1)	122 X1 GP
BS-83	Tire (USA-1)	119 X2 GP Hard Type
BS-84	Counter Gear Set	56-57-58 X1
BS-85	Counter Gear Shaft	59 X1
BS-86	Counter Gear Mount	60 X1
BS-87	Wheel (USA-1)	118 X2 GP
BS-88	Screw Set (USA-1)	1 set GP

No.	Parts Name	Key # & Q'ty
BSW-49	Toe-Zero Rear Plate	101 X1
FM-29	Body Pin	122 X10
FM-73	Pilot Shaft	91 X1
FM-185	Joint	23 X2
KC-7	King Pin	34 X4
KC-18	φ 3 Stopper	39 X10
KC-20	E Ring(E-4)	97 X4
KC-45	Special Clutch Shoe	93 X1 92 X2
LD-70	Clutch Bearing	94 X1 95 X8
SD-54	Clutch Bell (13T)	96 X1
SD-79	Antenna Pipe	76 X5
OT-31	M3 Pivot Ball	55 X10
OT-38	Silicone Grease	109 X2
OT-39	E Ring(E-2.5)	(2) X10
EF-38	Strap	110 X6
EF-39	NiCd Strap	111 X6
CB-72	E Ring(E-3)	38 X4
CB-110	Air Cleaner	140 X1
CB-151	Center Shaft	82 X2
FD-38	Black Shock (L)	(1)(3)(4)(5)(6)(7)(8)(9)(10)(11) X2 (2) X4
TB-51	Body Mount	12-13-14-15 X1 16-17 X2
UM-84	Side Guard	152 X2
DA-19	Carburetor Set	176-177 X3 178 X1
DA-30	Accessories Set	160-161-162-163-164-165-166-167-168 X1 169-170 X2
DA-31	Roll Bar Set	171-172-173-174-175 X1 176 X5
DA-35	Decal (USA-1)	143-144 X1
1840	Double Sided Tape	179 X1
1878	ScrewLockingCompound	145 X2
1901	Ball Bearing (5x10)	153 X2

Optional Spare Parts

FM-75	Clutch Bearing	Full Ball Type
FM-82	Clutch Bell(12Z)	
SD-53	• (12T)	
SD-55	• (14T)	
FM-222	• (15T)	
FM-160	Special Engine Mount	17S
BS-20	Universal Joint	32 + 33
BS-65	Fuel Tank	
BSW-1	Drive Bevel (S)	Steel
BSW-2	• (L)	Steel
BSW-3	Special Manifold	OS-ENYA
BSW-22	Flywheel	OS-21EX,OPS
BSW-48	Custom Silencer	
1951	Shock Oil (S•M•H)	x 3
1953	Silicone Oil (S)	Viscosity 100SC,200SC
1954	• (M)	• 300SC,400SC
1955	• (H)	• 500SC,600SC
1956	• (Super Hard)	Diff.
BS-53	Shim Set	φ 4X10, φ 6X18, φ 12X16, φ 8X12
NB-13	Light Set	Light 2 Battery Case

The Super Hobby



This products is not to be sold in the United States. If you have purchased this product in the United States, please contact Kyosho U. S. A. phone number (217) 398-3630.

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