# CIRCUIT 2000 SERIES

RADIO CONTROLLED OFF-ROAD RACING BUGGY KIT

# IMPACTA BAJA MINT LAS VEGAS

MID ENGINE PLACEMENT ASSURES TOP HANDLING CHARACTERISTICS AND OPTIMUM BALANCE FOR GREATER ROAD HANDLING AND REAR WHEEL TRACTION.

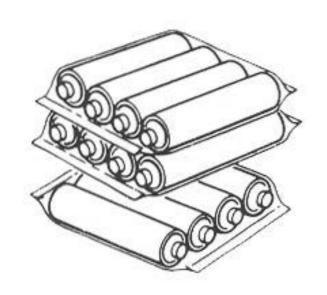
FRONT OIL FILLED/COIL SPRING AND REAR LONG TRAVEL SHOCKS ARE STANDARD EQUIPMENT FOR EFFECTIVE TERRAIN CONTROL



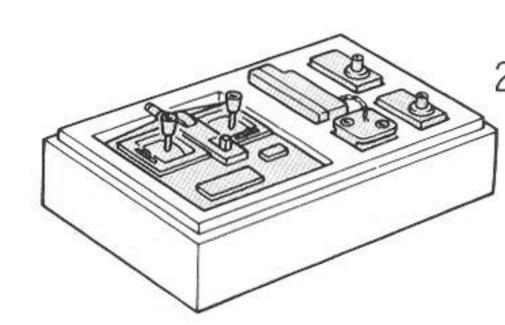
#### THINGS YOU WILL NEED BESIDES THIS KIT

#### [2 channel radio system]

A two channel, 2 servo radio control unit is required for running this car. This type of radio system can also be used for other models requiring only two channels of control. You will also need to supply your radio with the proper number of batteries (Usually 7 or 8 in the transmitter and 4 for the receiver.) A system with servo reversing (or simply using a reverse servo on the steering control) will be necessary.



#### Batteries

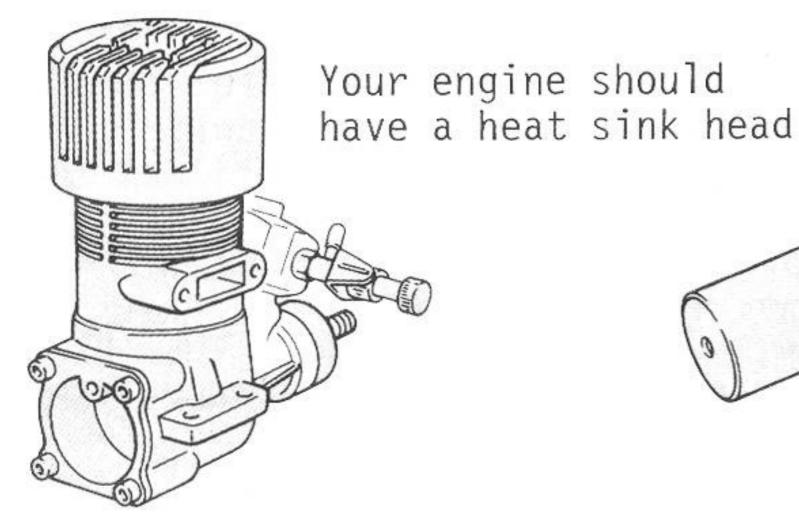


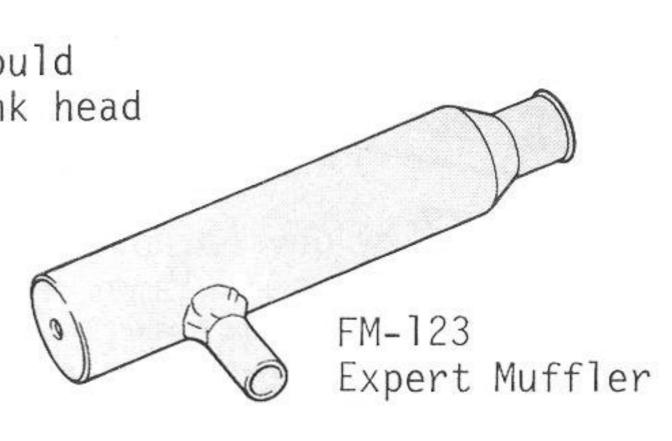
2 Channel Radio System

#### [Engine]

The Irvine 20 or 25 car engines, or the OS Max 21 FSR-B side exhaust car engine will mount with little or no modifications. The OS 21VF-B, OS 21VF-C, PICCO 3.5, Enya 21CX, 21CXS, 19X HP .25VT/car and others will require either additional parts or more than slight modifications. If you are planning to use an aircraft type engine you MUST supply it with a heat sink device to help cool the engine. Without a heatsink, the engine will overheat and be destroyed.

If you plan to use an OS MAX rear exhaust engine such as the 21VF-B or 21VF-C you will need the two parts listed below (See page 23.)



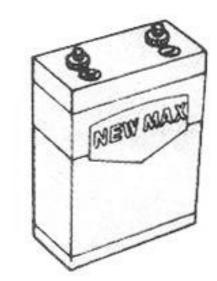


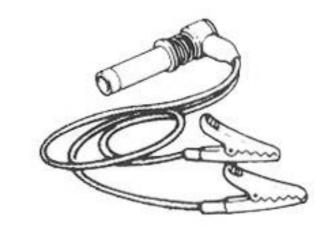
FM-130 Manifold

These two items are required for OS Max rear exhaust engines.

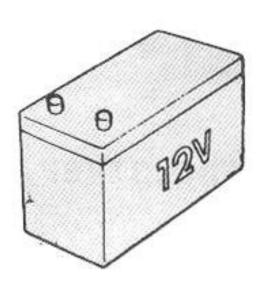
#### [Items Required for Running]











Glow Fuel Fuel Bulb

1.5V Battery for Glow Plug

Glow Plug Cord

Starter w/"DONUT"

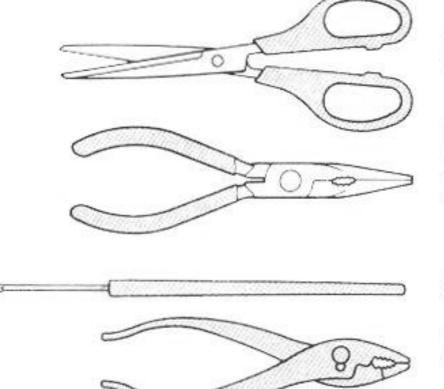
12V Battery (FOR STARTER)

#### TOOLS REQUIRED

The following tools are The follwing tools are required for assembly. included in kit. Scissors 1.5mm Alle Wrench

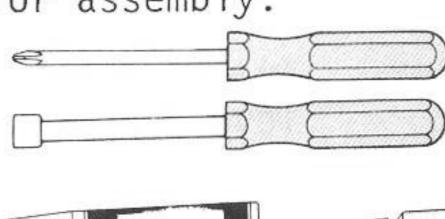
2mm Allen Wrench

2.5mm Allen Wrench





Aw1 Pliers



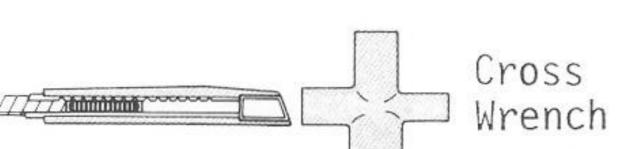
+ Driver(L,S) 5.5mm & 7mm HEX Driver



Rubber Cement Instant Cement



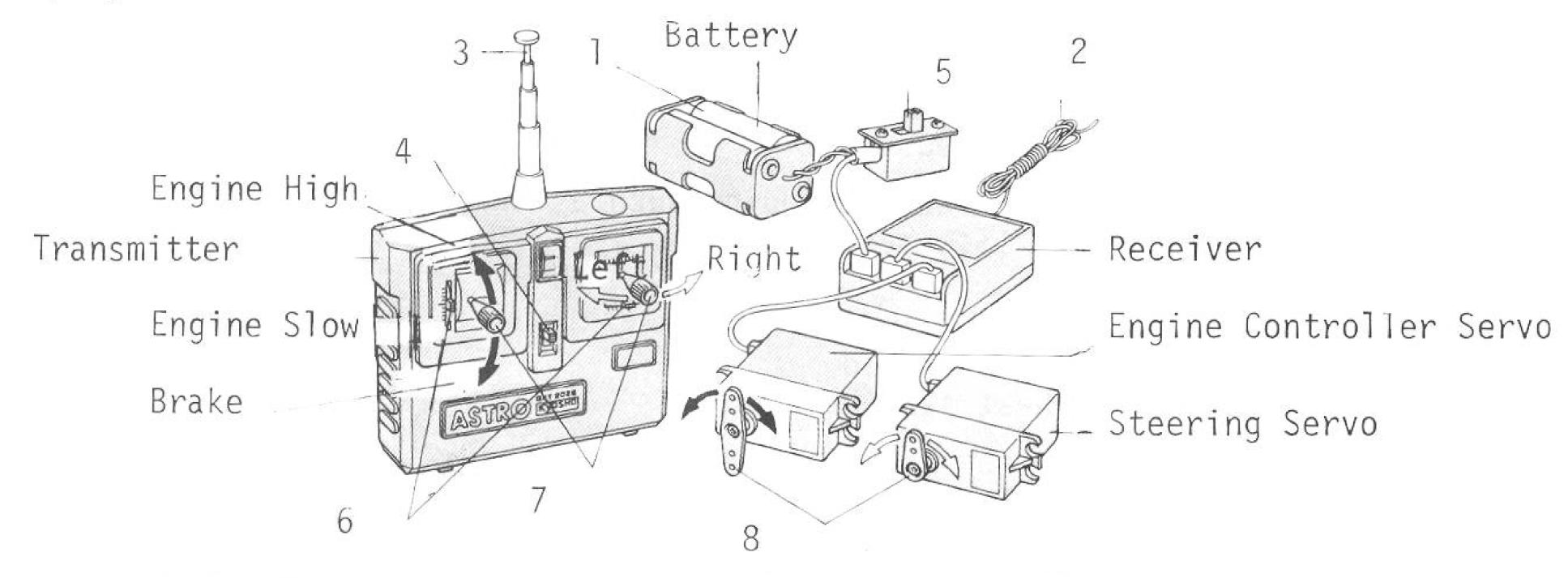
Masking Tape



#### HOW TO CHECK YOUR RADIO SYSTEM

Follow steps 1-8 in order.

- 1. Install the batteries into both the transmitter and receiver. If your radio is a reachargeable system, charge it as outlined in the manual that came with your set.
- 2. Unravel the receiver antenna and plug the servo and battery connectors into the receiver.
- 3. Extend the transmitter antenna.
- 4. Turn ON the power switch at the transmitter.
- 5. Turn ON the power switch for the receiver.
- 6. Set the small trim levers to the center position and make sure that both main control sticks are also centered.
- 7. Move both main control sticks slowly through their full travel. The servo horns should move in proportion to the movement of your sticks.
- 8. When the trim levers and sticks are at their neutral positions, the servo horns should be centered. You may now turn off the transmitter, then the receiver and unplug the servos and battery from the receiver.



\*IT IS IMPORTANT TO ALWAYS SWITCH THE TRANSMITTER ON FIRST ... THEN THE RECEIVER. WHEN TURNING OFF THE SYSTEM TURN OFF THE RECEIVER FIRST AND THEN THE TRANSMITTERS.

A 2-channel radio control system is composed of a transmitter, a receiver, two servos, and a battery holder (for the receiver.)

\*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 via 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.

#### IMPORTANT! BEFORE YOU BEGIN

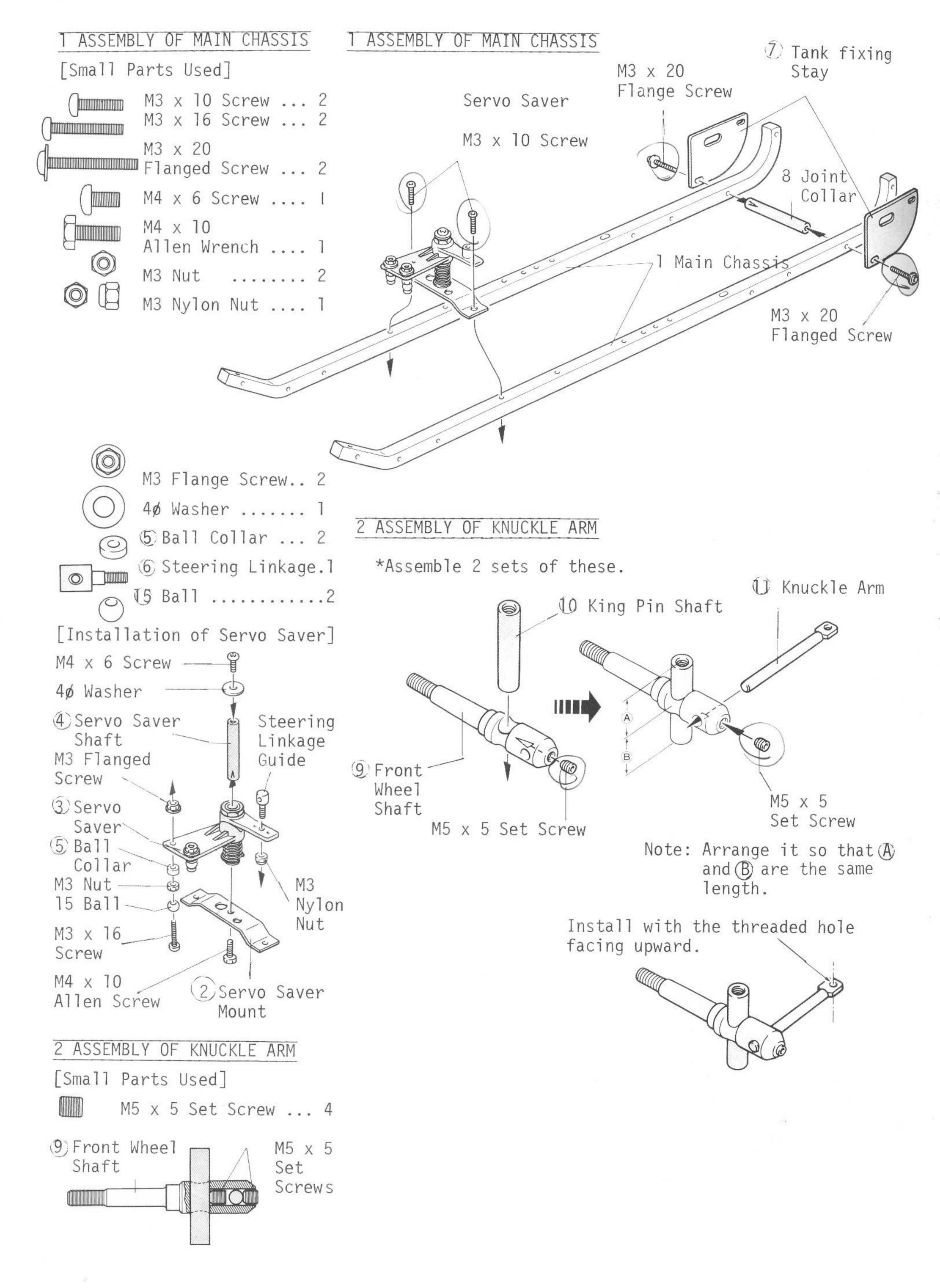
A WORD OF WARNING is necessary, especially if this happens to be your first gaspowered vehicle. Gas-powered cars are subjected to unbelievable stress and strain due to high engine RPM, rough terrain and the racing/high performance usage that they receive. As a result, they need continual preventative maintenance to keep them in operating condition.

This is an extremely sophisticated model with a large number of moving parts. Assembly of the model by a completely inexperienced builder could turn out to be a very frustrating experience. Before you begin assembly, take a look through the box and these instructions carefully to decide whether or not you are ready for this challenge! If you do not feel that this type of model is for you, it may be returned to the dealer as long as it is NEW and UNUSED. UNDER NO CIRCUMSTANCES CAN YOUR DEALER ACCEPT A KIT FOR RETURN IF ASSEMBLY HAS ALREADY BEGUN! If this is not what you bargained for, then go no further and return this kit to the dealer immediately. BUT, if a little maintenance doesn't brother you and the thrill of high performance driving is for you, then don't hesitate another minute! Read through this entire manual thoroughly to familarize yourself with the parts and methods of construction used before actually starting to build.

- \*All nuts and bolts used throughout this kit are metric sized.

  Therefore, some of the notations may not be familiar to yoo. An M3 nut is a 3 millimeter (3mm) nut. An M3 x 12 screw is 12mm long and 3mm in diameter. At various points throughout the manual these parts are labeled and pictured in their actual size. For your reference, 1mm equals approximately .039 inches.
- \*In addition to the damper oil (red liquid) you will also find a small tube of "screw cement". This bluish-green cement should be used on all nuts and bolts in the car including those parts which are ALREADY ASSEMBLED. If you do not use the screw cement, all the nuts and bolts of the car WILL eventually fall out. This particular formula is safe for both nylon and metal parts. Use this type of cement only on the nuts and bolts. When it calls for cement in the manual, use an "instant" type of glue such as Jet, CA or Hot Stuff.

\_ 4 \_



#### [Small Parts Used]

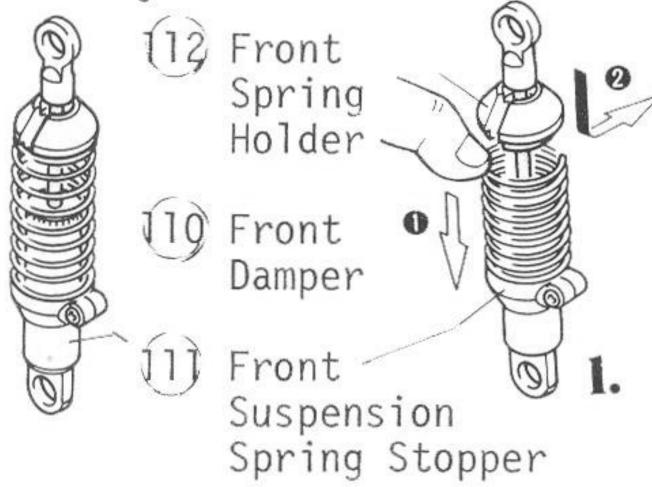
	M3	Χ	12	Sc	r	e	W	•				2
	МЗ	Nu	ıt							•	*	4
(O)	4ø	Wa	she	er								4

(5) Ball ..... 2

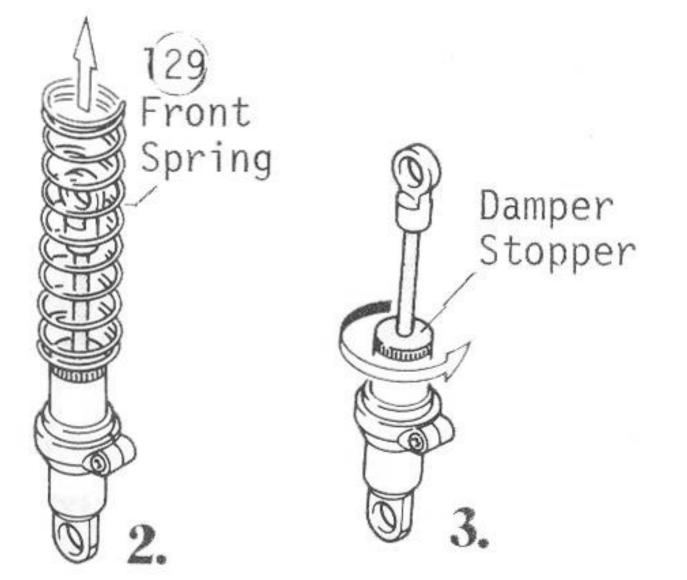
# 4 POURING OIL INTO FRONT DAMPER

The front dampers are factory assembled, but not filled with oil. Disassemble the front shocks by first removing the coil spring retainer and then the springs. Unscrew the damper stopper and remove it.

Note: the rear dampers are already oil-filled.

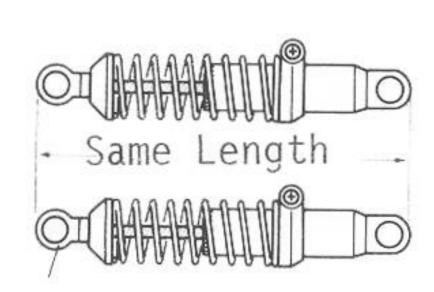


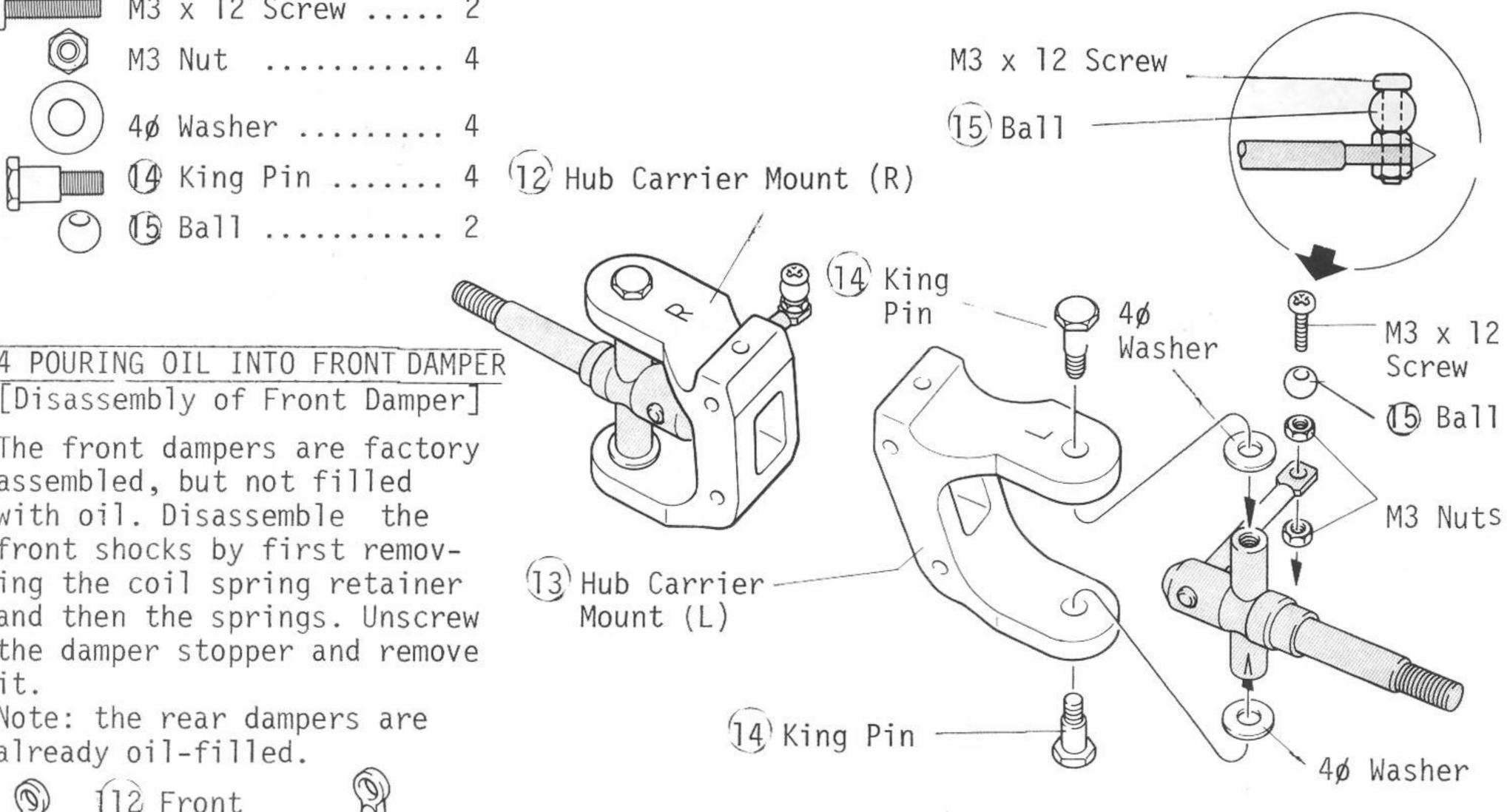
(Compress the spring as shown, then slide the spring holder sideways to remove it)



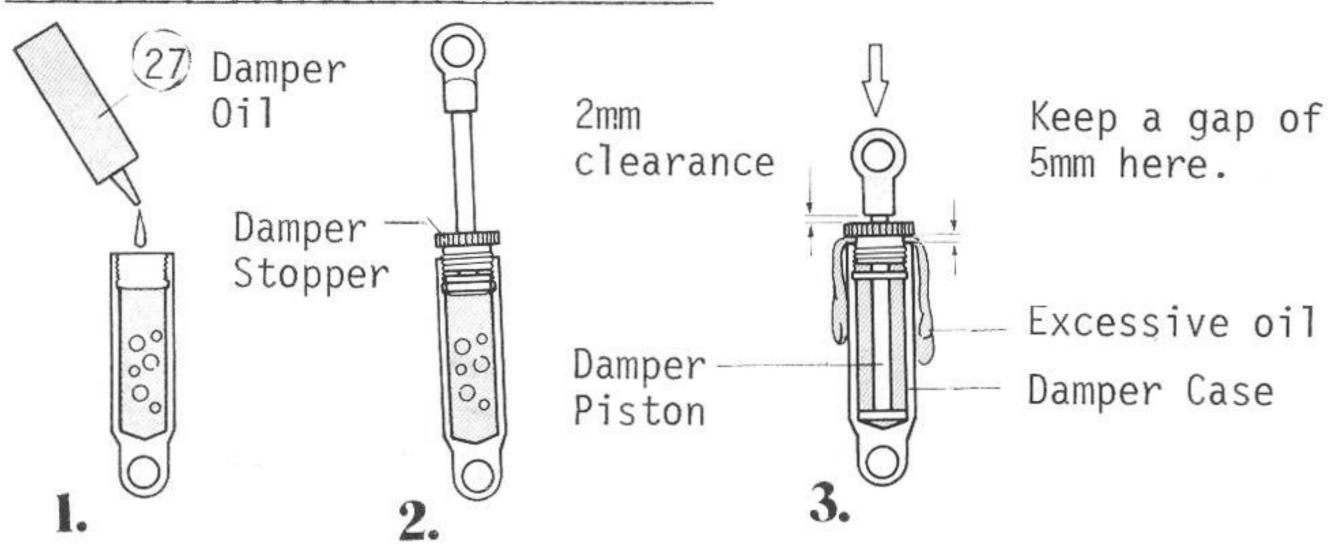
Detach the spring.

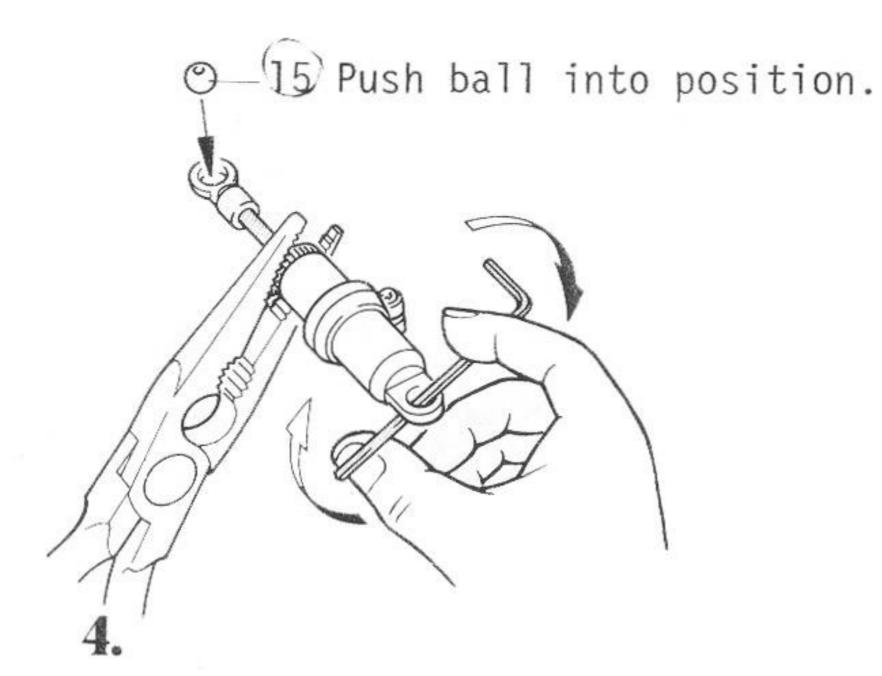
Remove the damper stopper and pull out the piston.



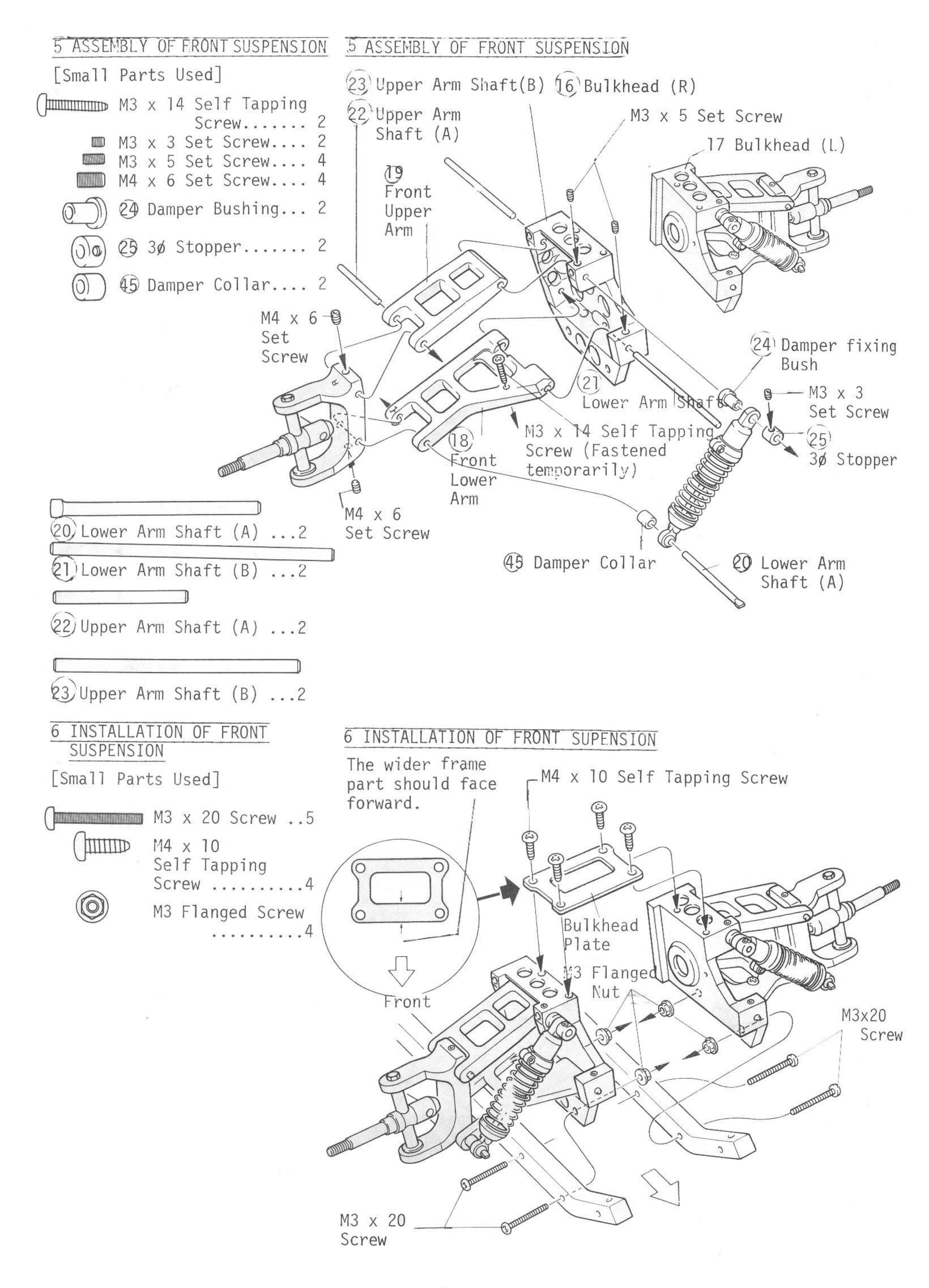


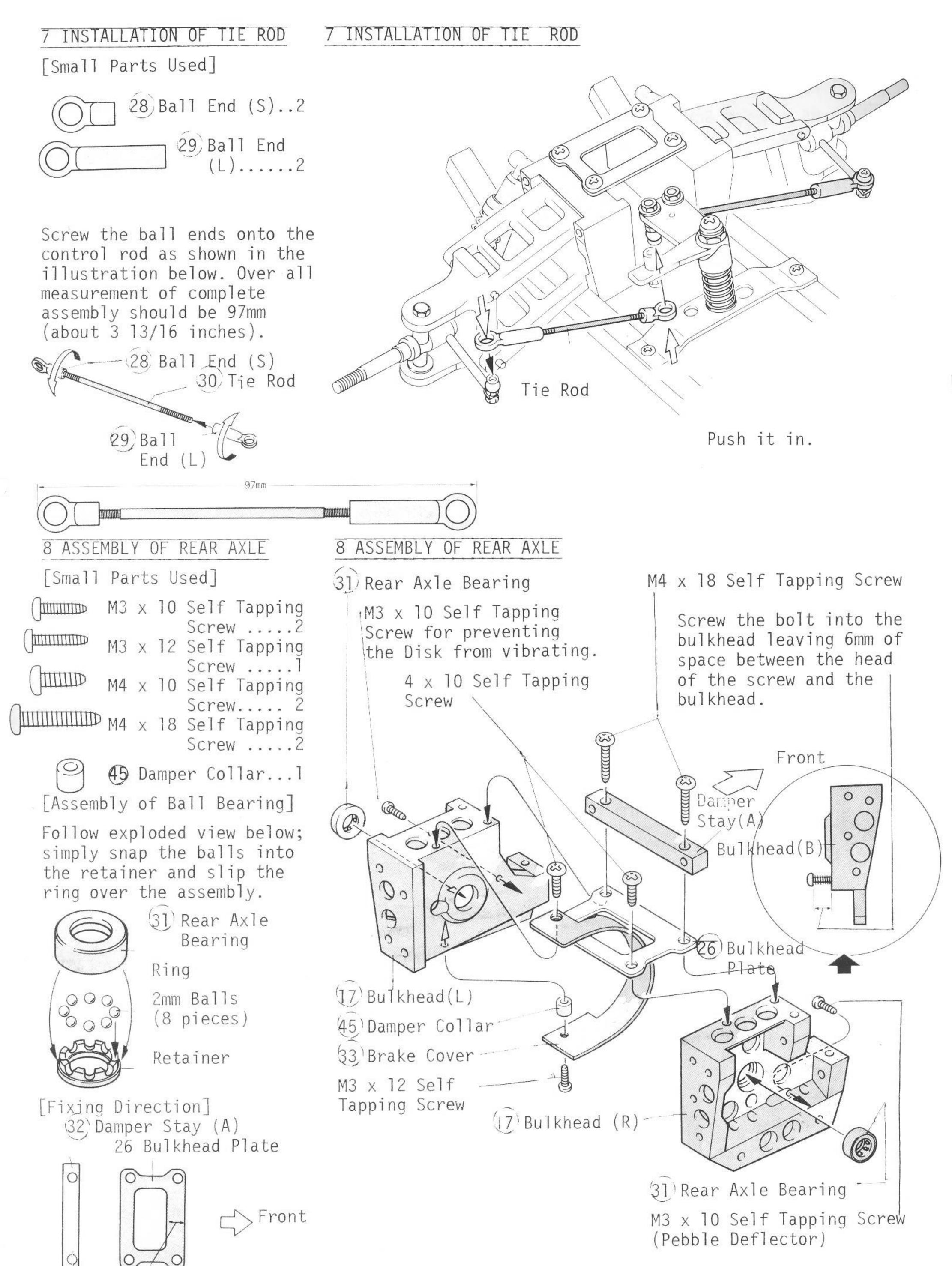
#### POURING OIL INTO DAMPER



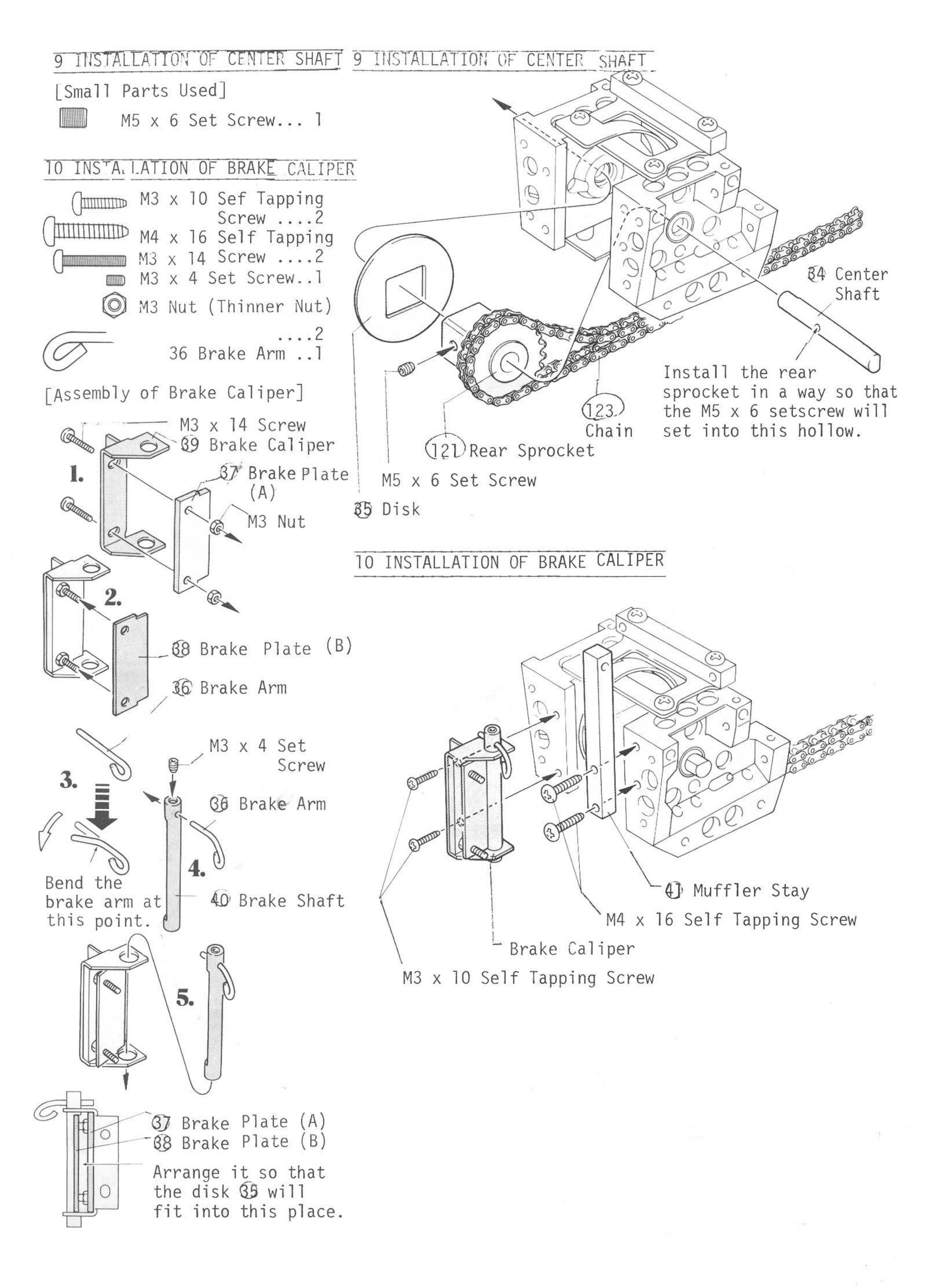


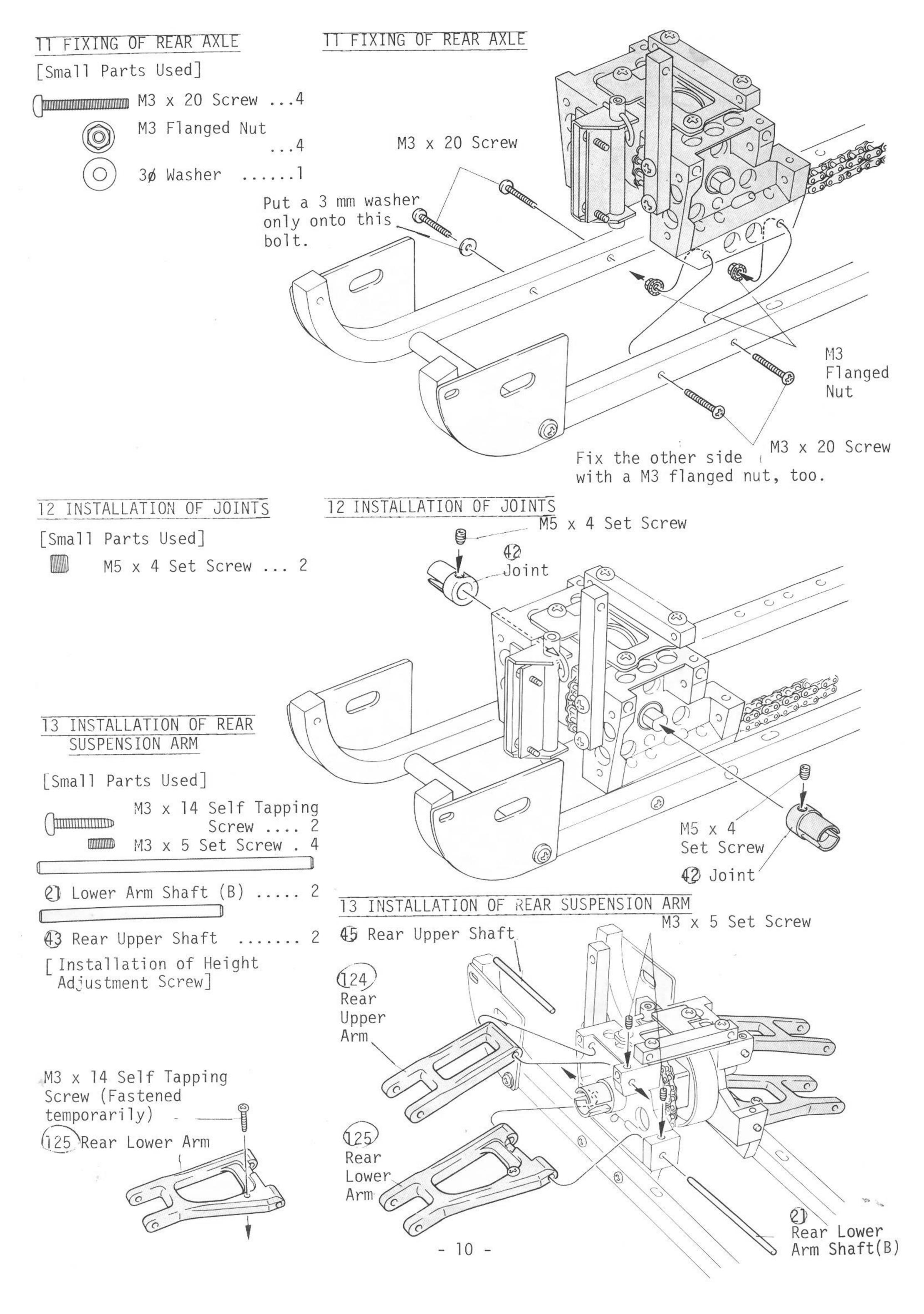
- 1. Pour the oil (red liquid) into the damper up to the point shown above.
- 2. Screw in the damper stopper.
- 3. Keep a gap of about 5mm between the damper stopper and the damper case and push the piston all the way down to squeeze out any excess.
- 4. Screw in the damper tightly by holding it with pliers as shown above. You may then install a ball into each front shock ball end.





The narrower edge should be set forward.

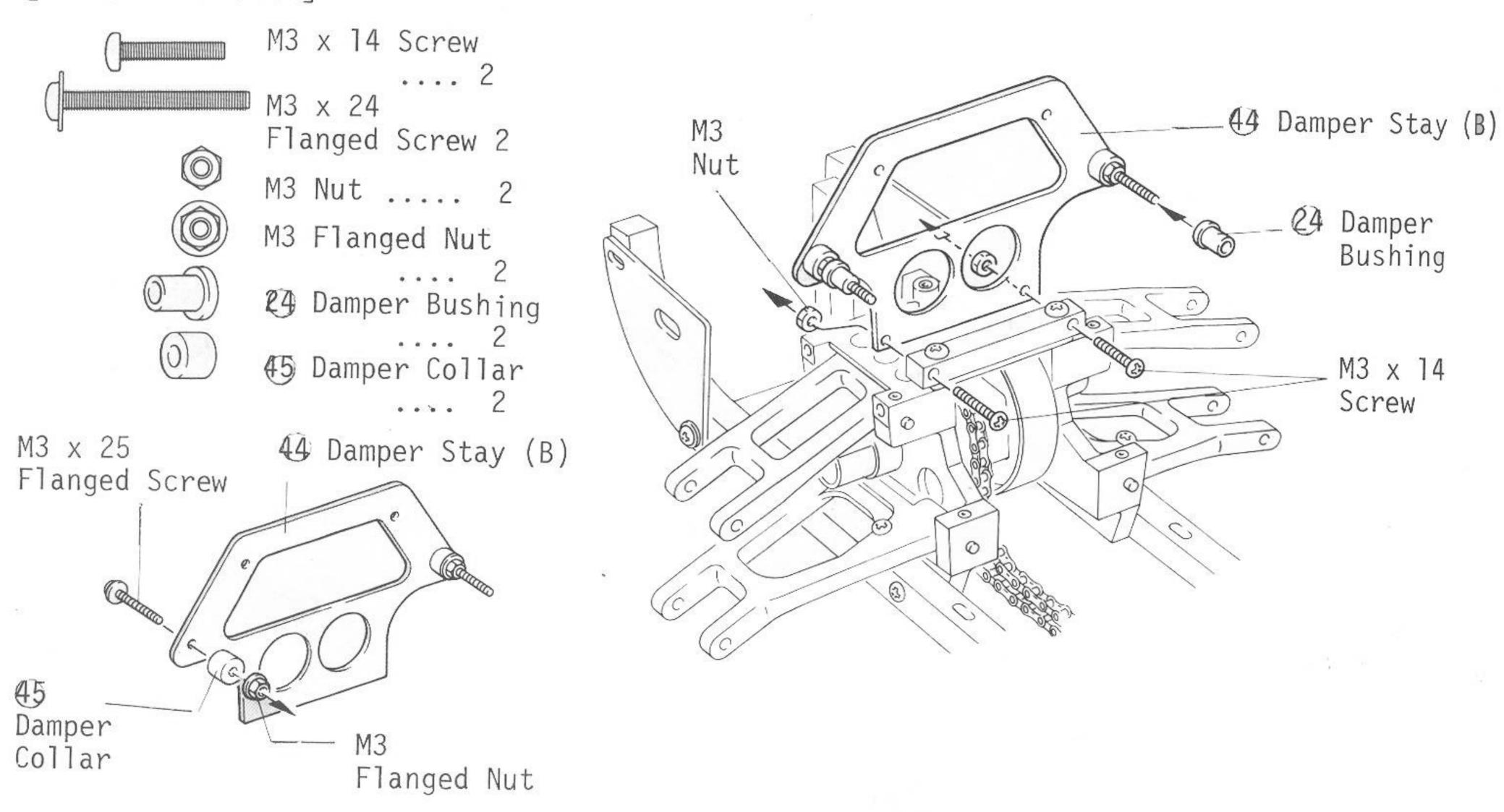




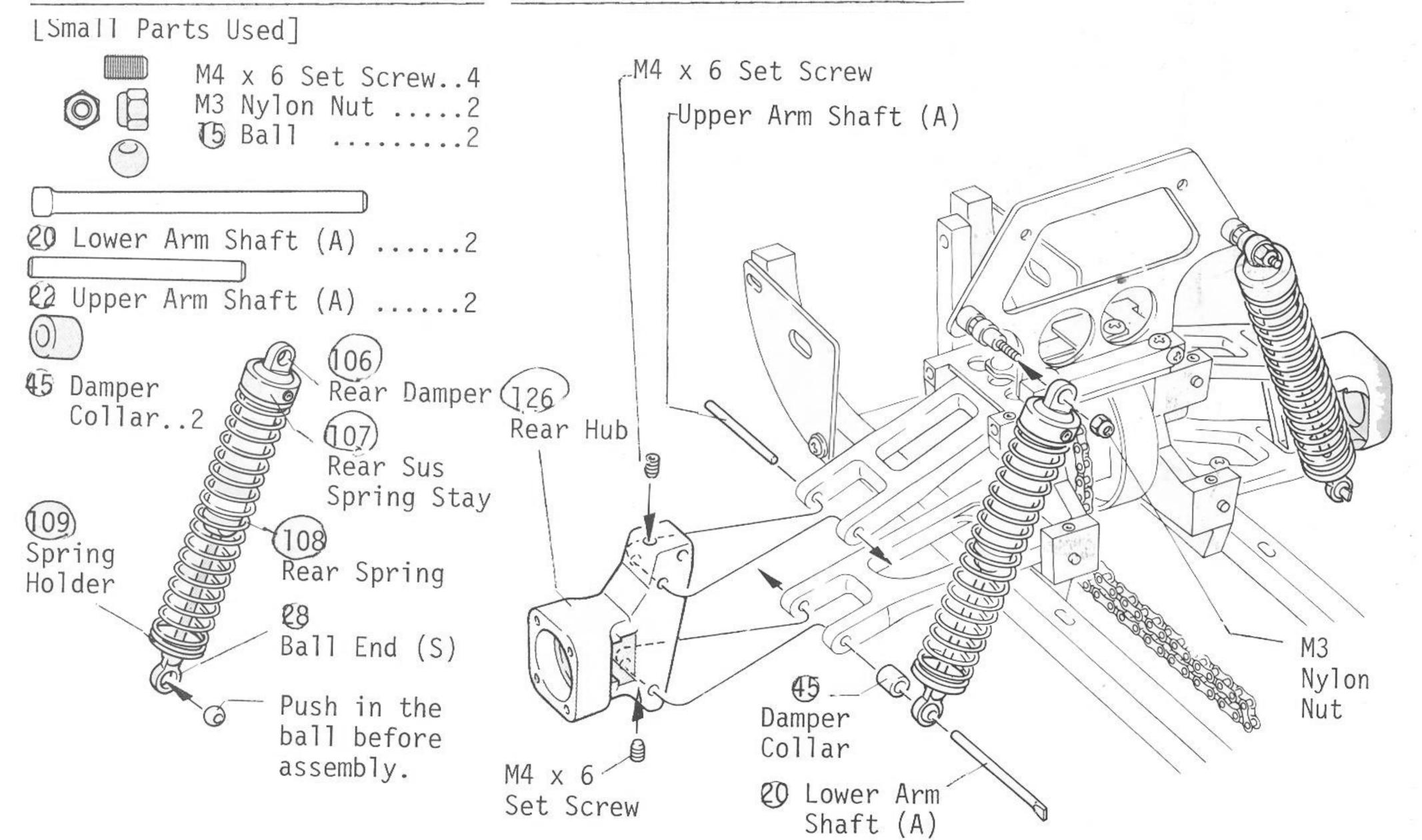
#### 14 ASSEMBLY OF REAR DAMPER

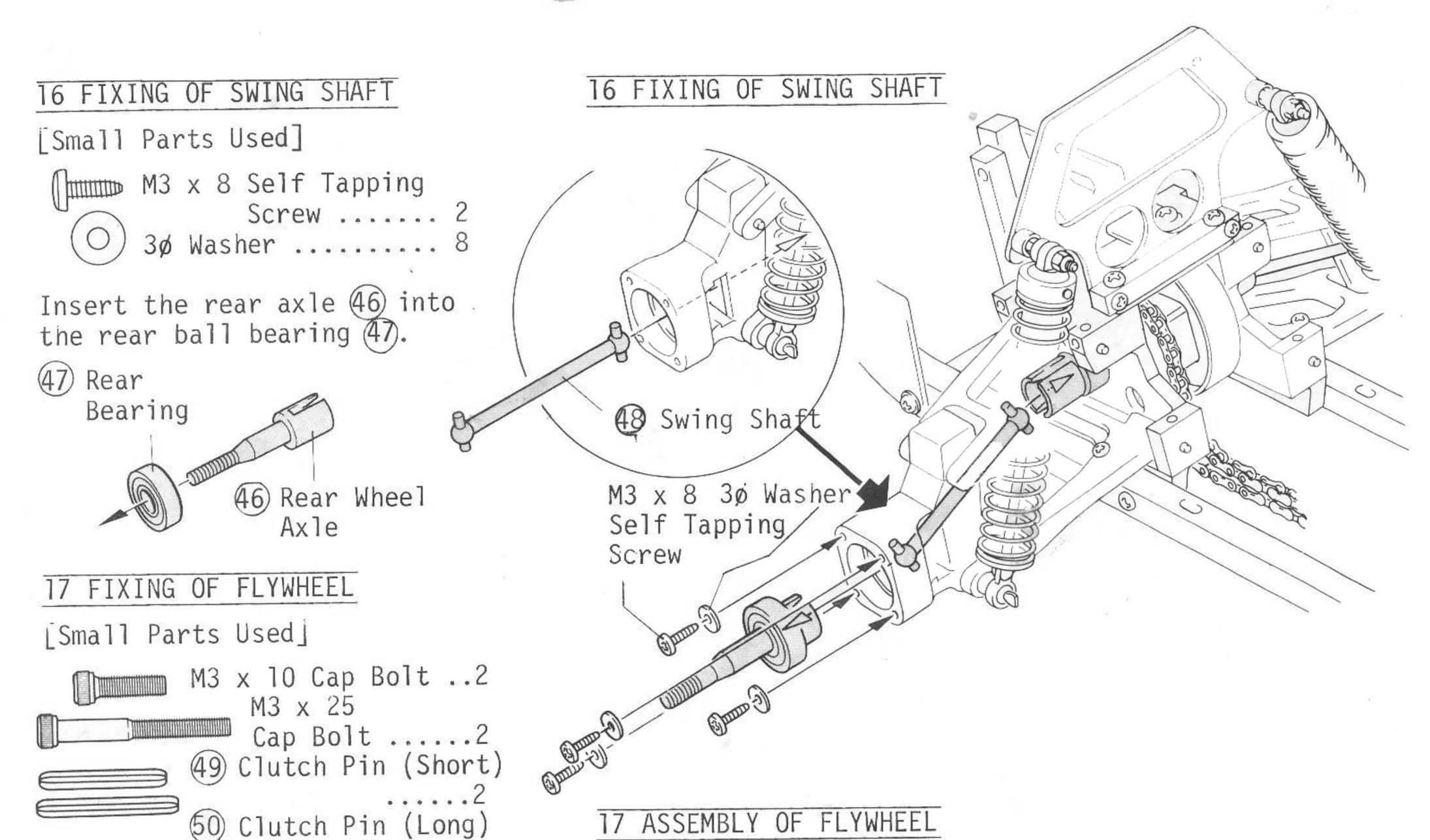
#### 14 ASSEMBLY OF REAR DAMPER

[Small Parts Used]



#### 15 INSTALLATION OF REAR DAMPER 15 INSTALLATION OF REAR DAMPER



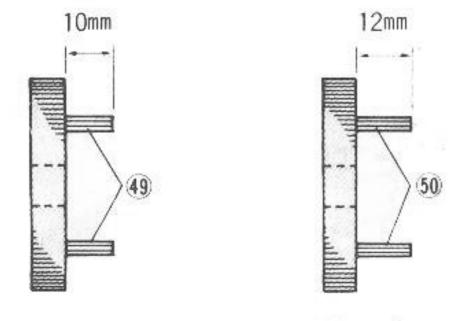


[Assembly of Flywheel]
Drive in the clutch pin into the flywheel 51.

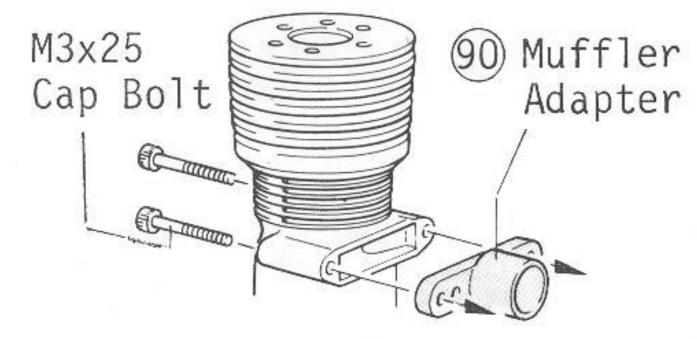
49 60 Clutch Pin

(Note) Use the long clutch pins for Irvine, Enya & HP.25VT engines. Use the short pins for the OS Max.

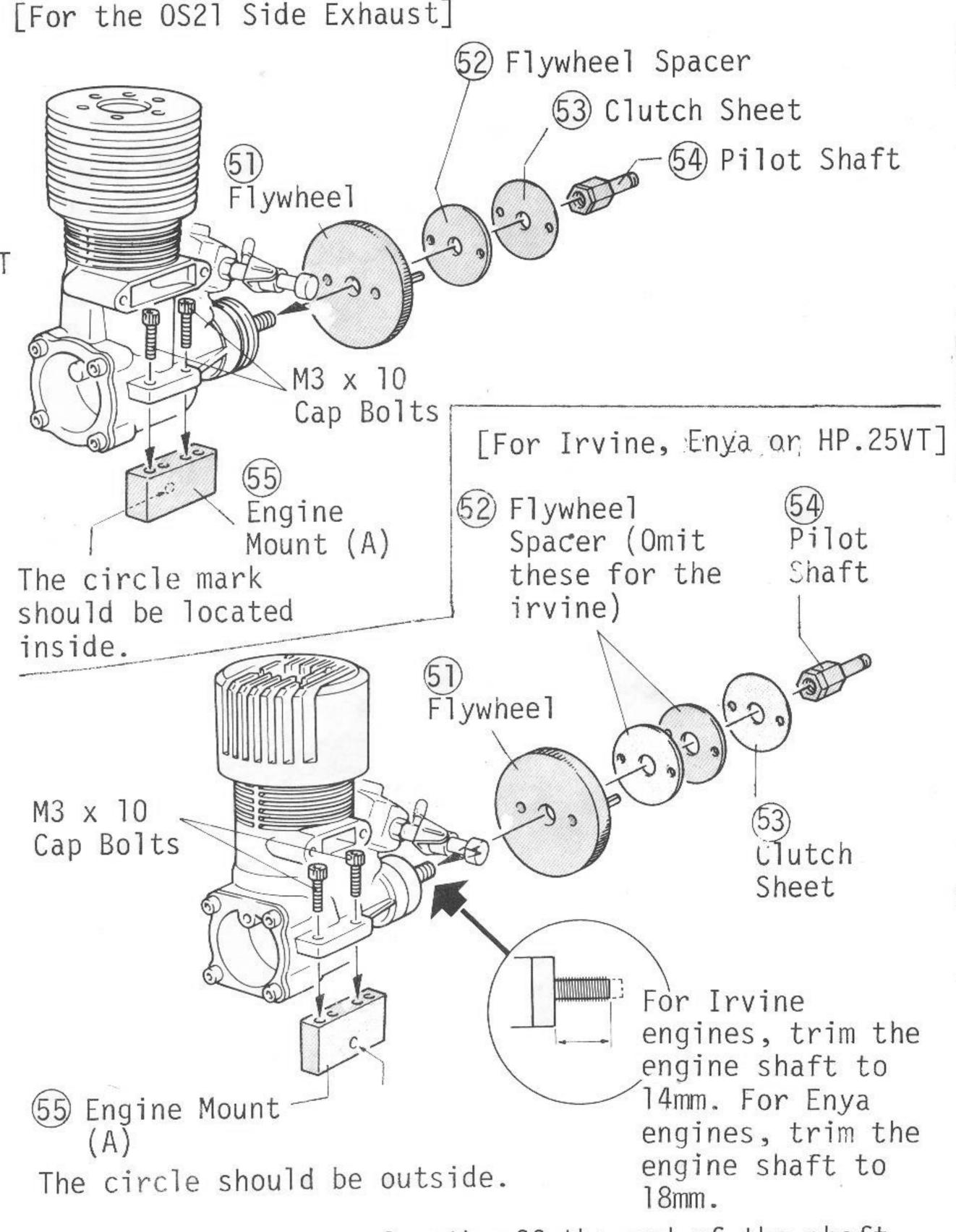
[Short pins for [Long pins for OS21] Irvine and Enya]



After assembling the flywheel parts as shown, bolt the muffler adapter to the engine as shown.



Note: For Enya engines you will have to widen one or both of the holes on the muffler adapter. For the Irvine, use the muffler screws provided with your engine.



Smooth off the end of the shaft before installation. No trimming is necessary with the HP.25VT.

#### 18 INSTALLATION OF CLUTCH

[Small Parts Used]



**59** Clutch Bearing

Housing ... —

Roller..6 5ø Washer ....1

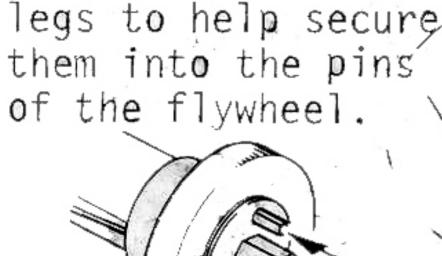


E Ring ....1

8ø Washer ... ]

[Assembly of Clutch]

Make a small "U" bend in the longer of the two clutch spring legs to help secure



37 Clutch Shoe / 58

Clutch Spring

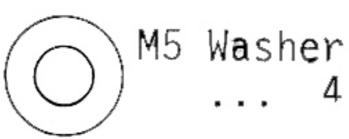
#### 19 ASSEMBLY OF SPUR GEAR

[Small Parts Used]

M3  $\times$  12 Cap Bolt..2 M3 x 20 Screw ...1



M5 Nut



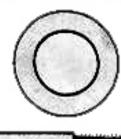


M5 Flanged Nut

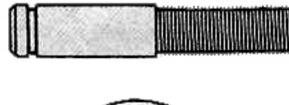
6ø Washer .. 2



MWW 63 Adjust Spring.... 1



64 Nylon Washer .... 1

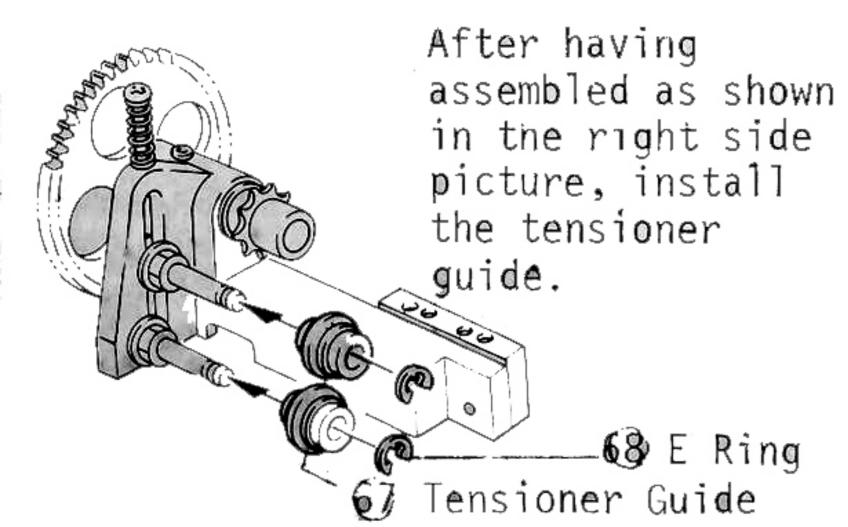


**36** Tensioner Shaft .... 2



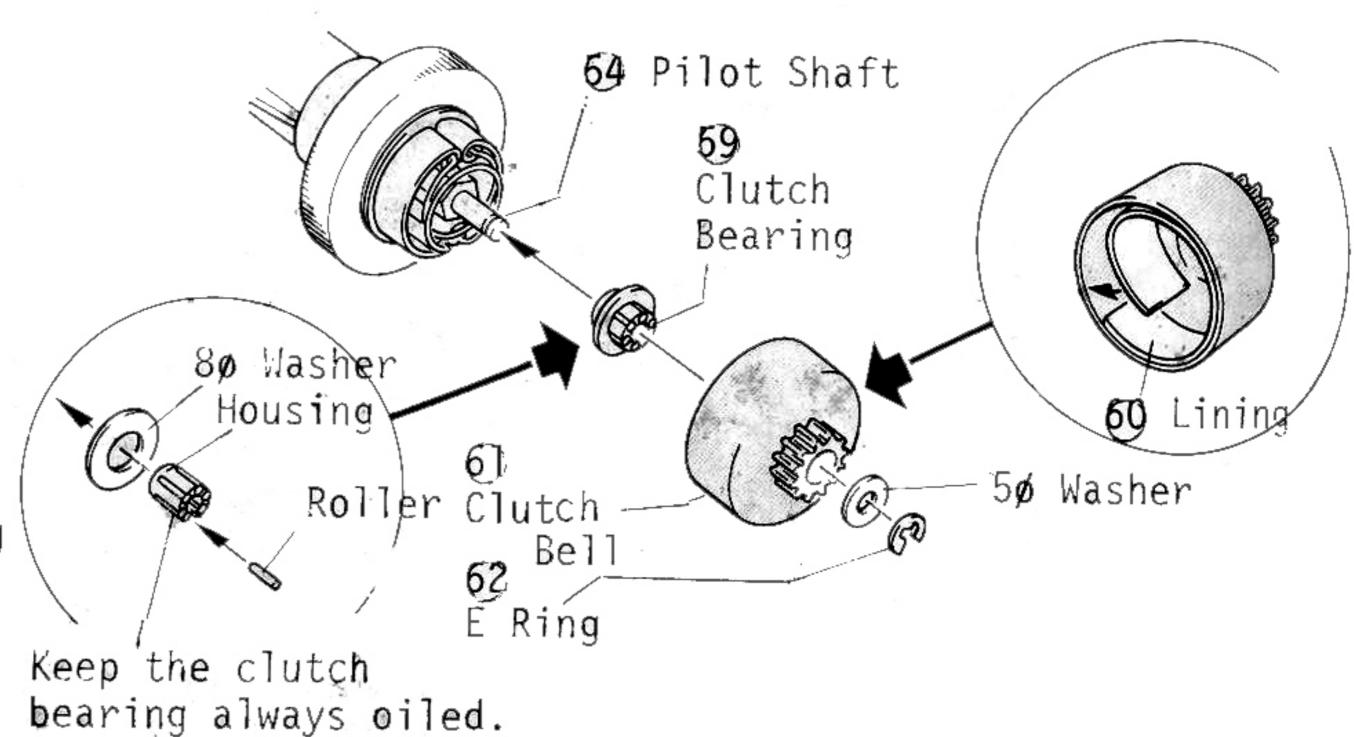


7 Tensioner & E Ring .. 2 Guide..2

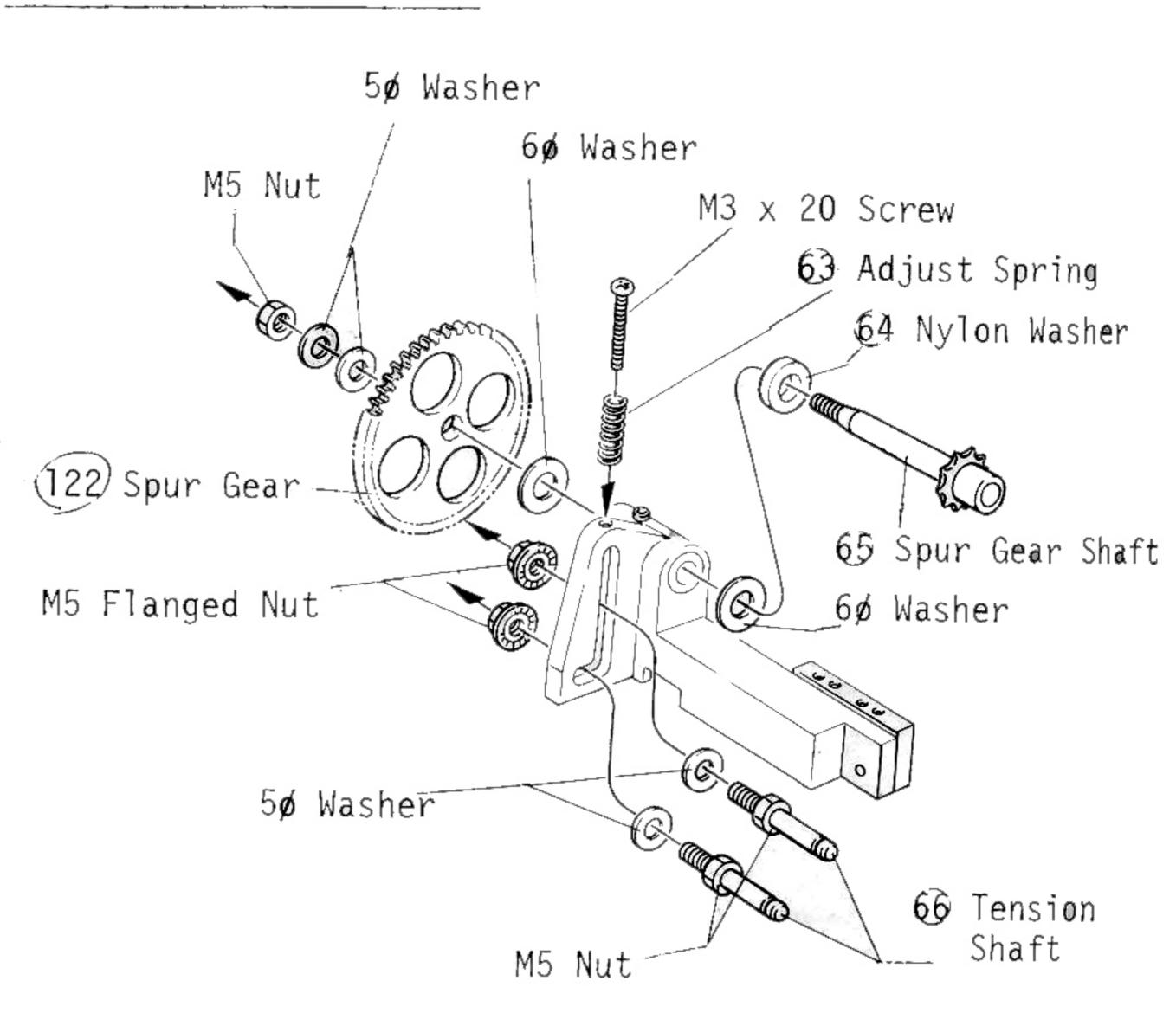


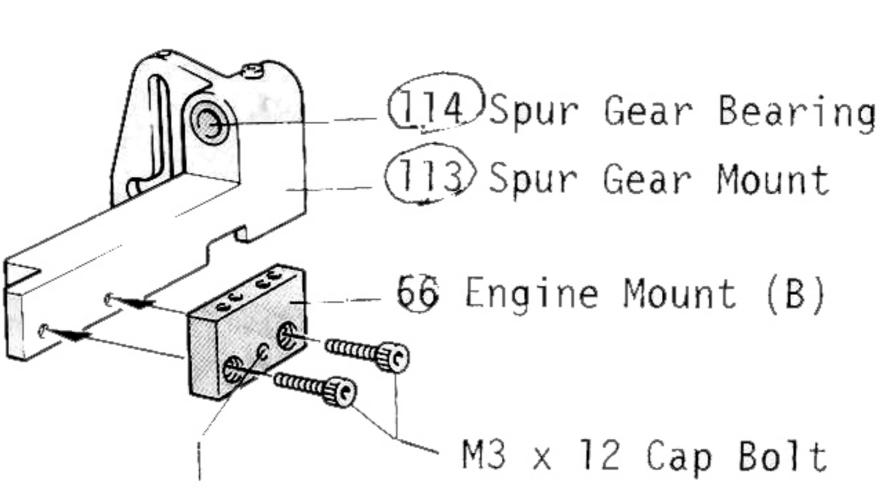
#### 8 INSTALLATION OF CLUTCH

Do not cement the lining, just press it into the clutch bell.



#### 19 ASSEMBLY OF SPUR GEAR





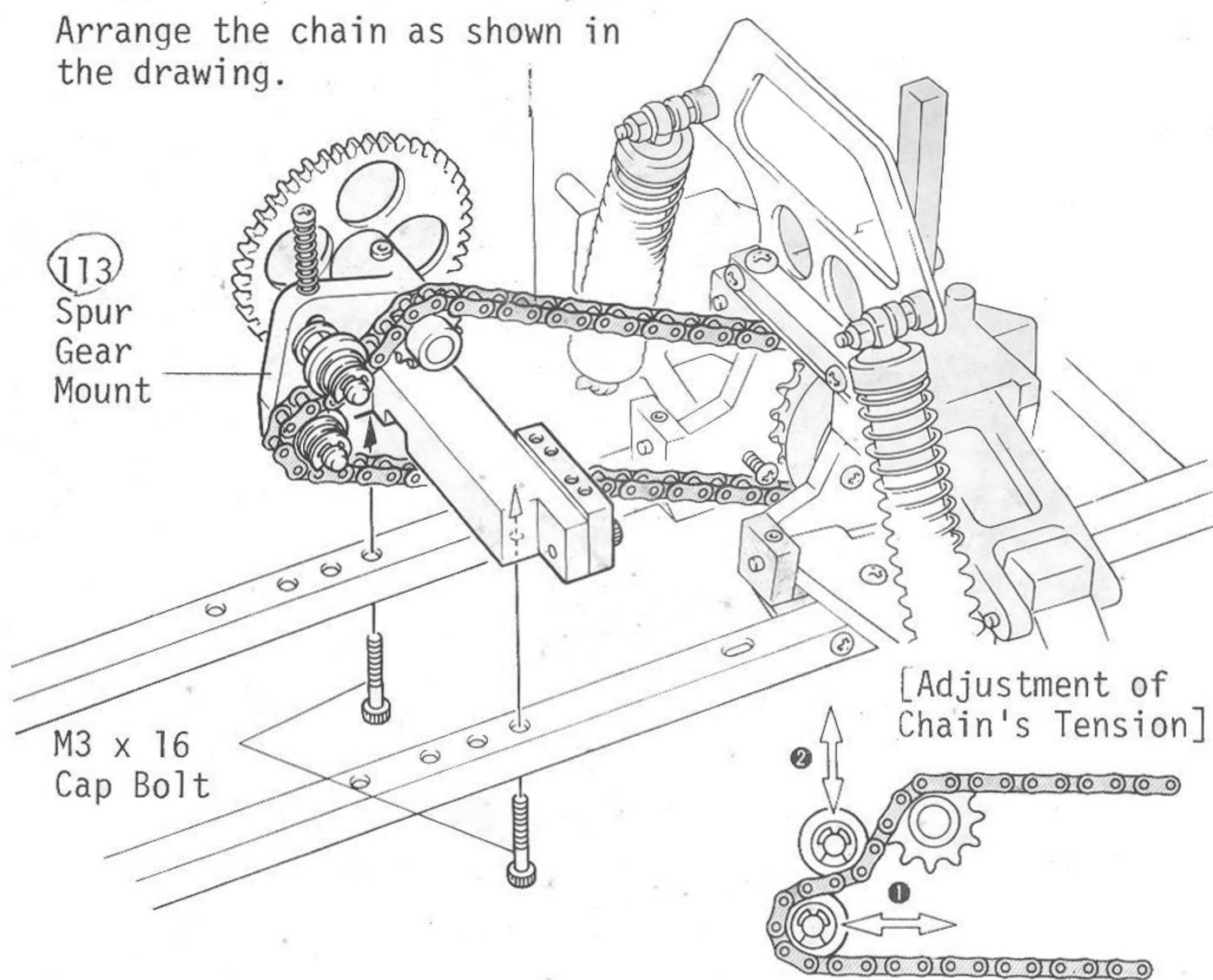
With the engine OS21, fix the engine mount with the circle mark facing outside; and with the Irvine, Enya 21CX or HP .25VT, put it the other way around.

#### 20 ASSEMBLY OF SPUR GEAR MOUNT

[Small Parts Used]

M3 x 16 Cap Bolt..2

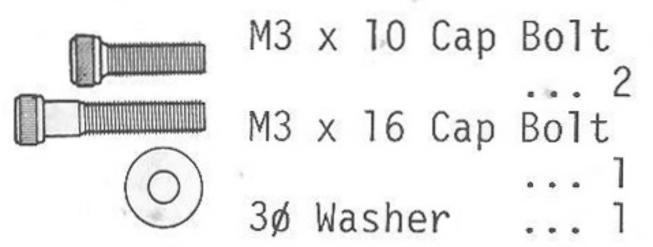
#### 20 ASSEMBLY OF SPUR GEAR MOUNT



Adjust the tension of the chain by sliding the tensioner shafts 66 toward 1 and 2. (See page 22 for details)

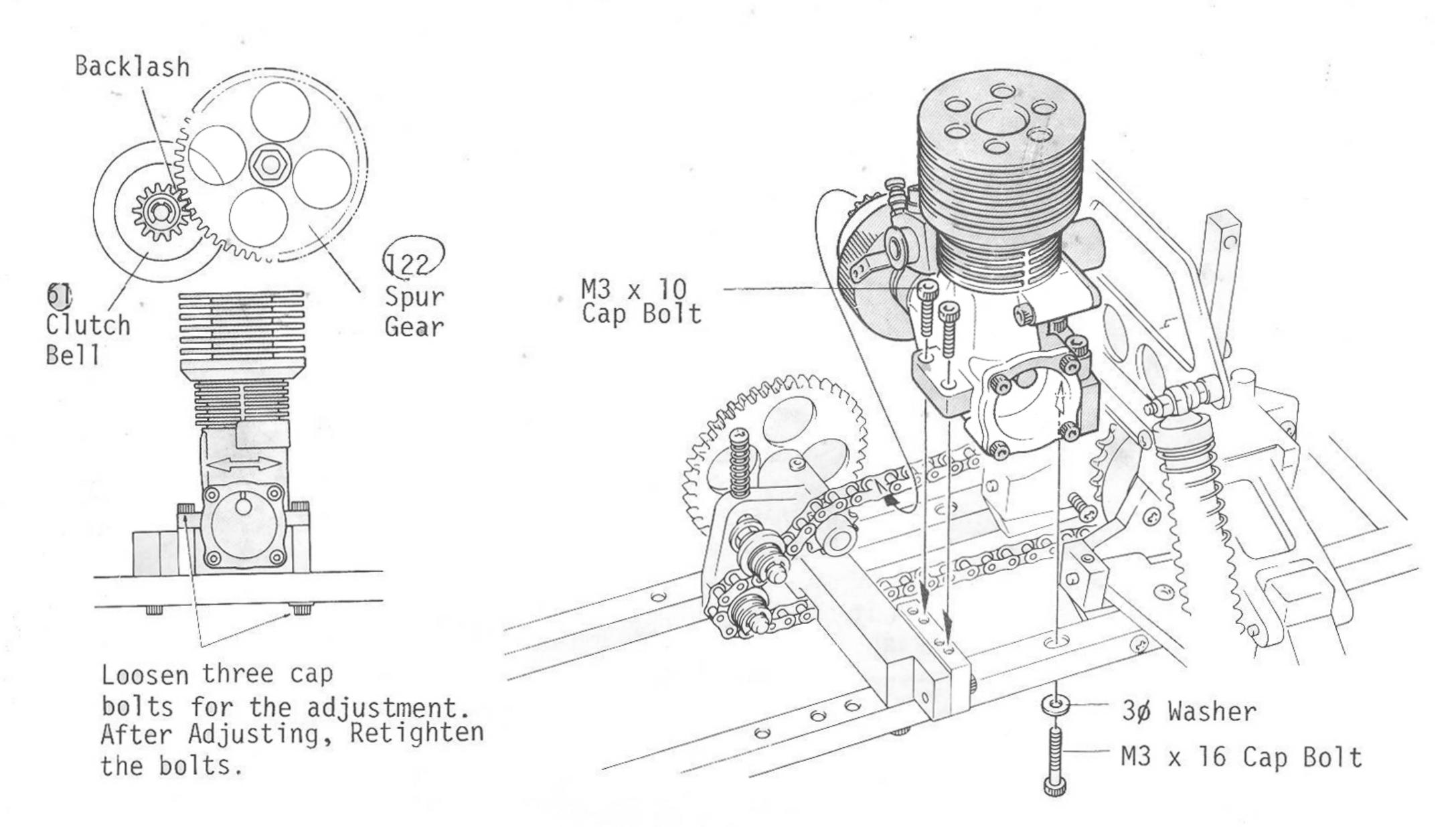
#### 21 MOUNTING OF ENGINE

[Small Parts Used]



Adjust the backlash between the clutch bell 6 and the spur gear (22 by loosening the engine mounting bolts.

#### 27 MOUNTING OF ENGINE



# 22 INSTALLATION OF ENGINE CONTROL SERVO SAVER

[Small Parts Used]

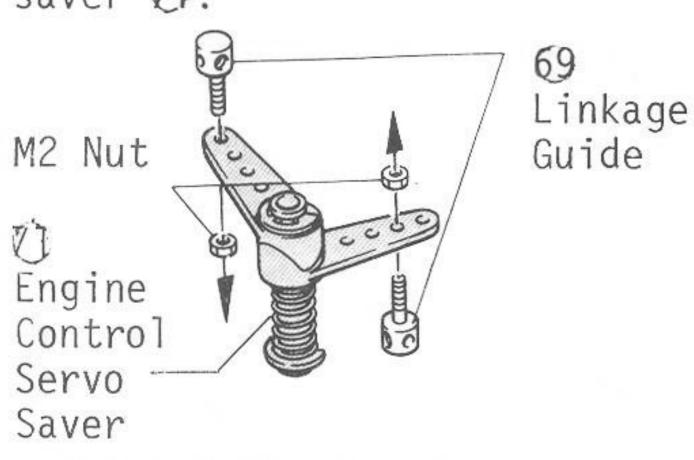
M3 x 16 Screw .... 1

M2 Nut .... 2

M4 Nylon Nut .... 1

69 Linkage Guide . 2

Fix the linkage guide 69 to the engine control servo saver 21.



#### 23 MOUNTING OF SERVOS

[Small Parts Used]

M3 x 10 Screw ... 2

M4 x 40

M4 x 40

Screw. 1

M3 x 12

Self Tapping Screw 8

M4 Nut ... 2

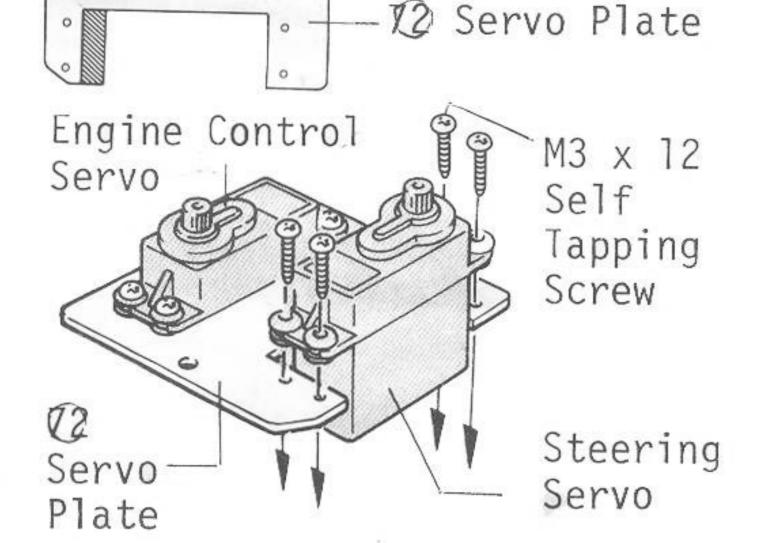
Cut off part of the shaded portion according to the servo, and drill the holes for the mounting bolts.

0

Drill small holes

of about 2 mm

diameter

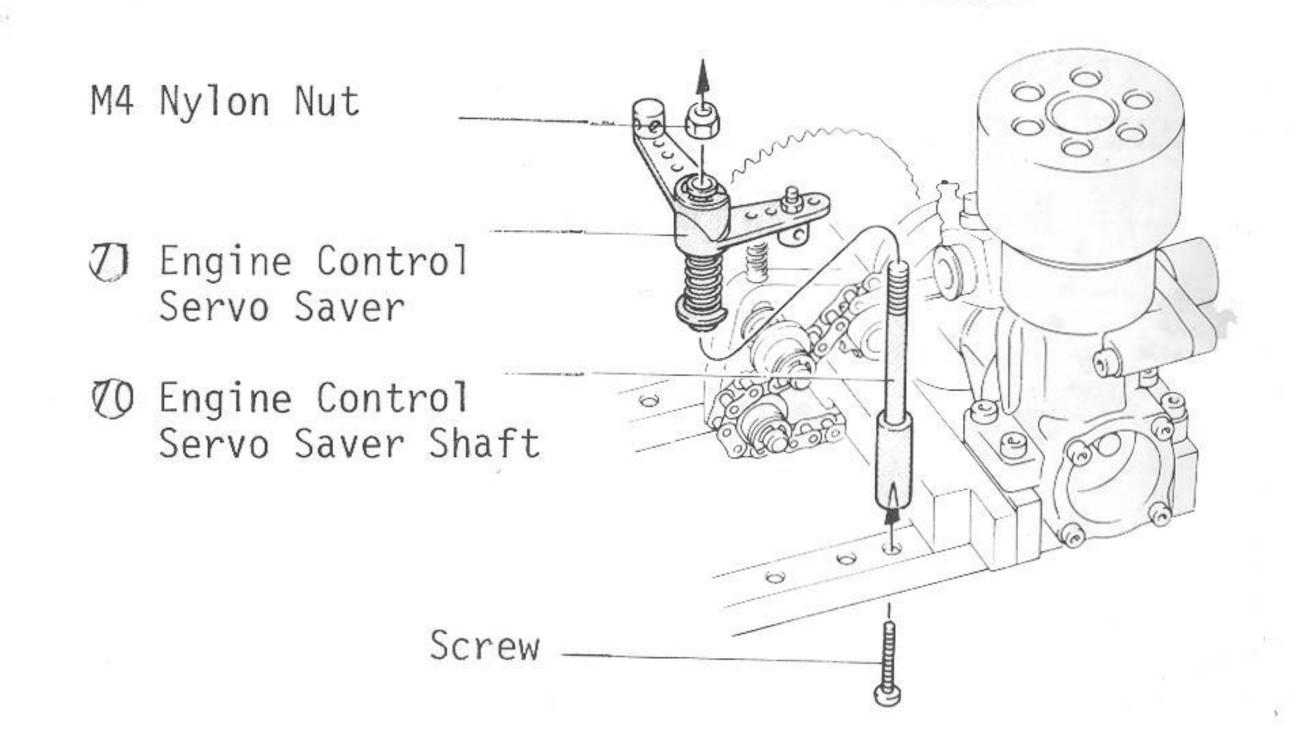


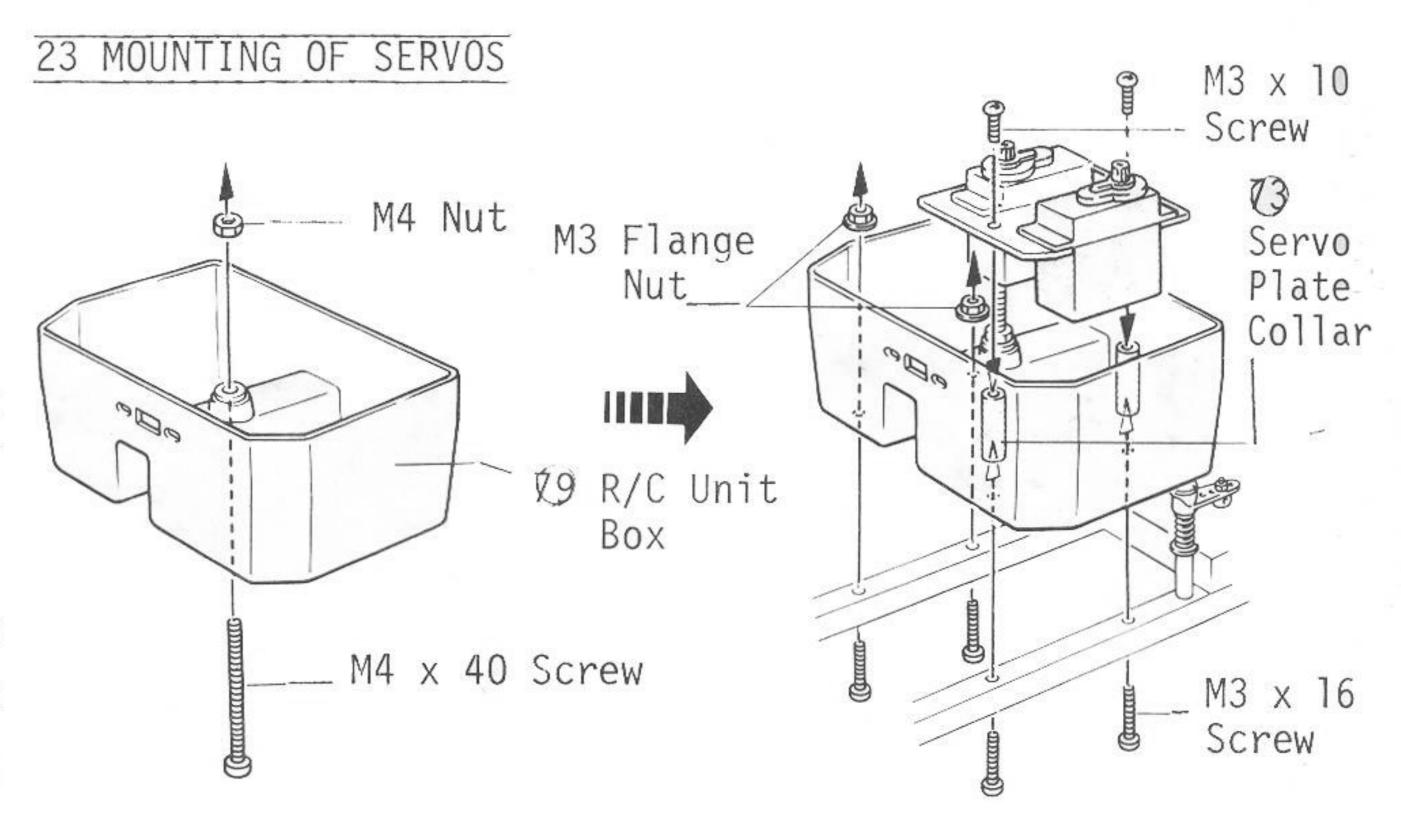
### 24 LINKAGE OF STEERING CONTROL [Small Parts Used]

M3 x 3 Set Screw ....1

(Note) Arrange the linkage of the control rods while keeping the servo and front wheels in the neutral position.

#### 22 INSTALLATION OF ENGINE CONTROL SERVO SAVER

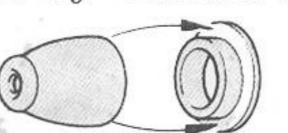




#### 24 LINKAGE FOR STEERING CONTROL

Screw provided with Your Radio [Cutting of Servo Horn] Servo Horn 16 Linkage 000 Rod (A)  $M3 \times 3$ Set . Screw 75 Rod Boots Cut off the shaded portion. Make an opening for the control rod.

Put together the rubber boot for the control rod by cementing the parts.



\*Assemble two sets of them.

#### 25 LINKAGE OF ENGINE CONTROL

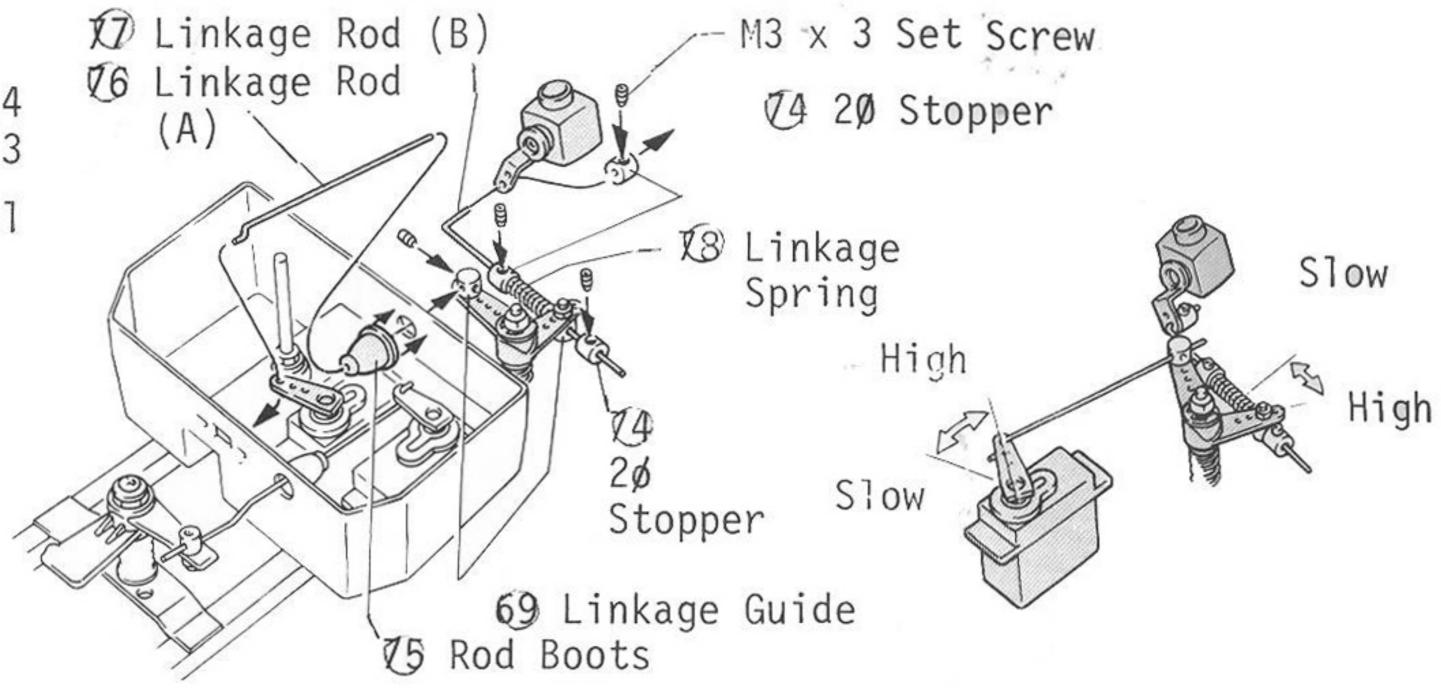
[Small Parts Used]

M3 x 3 Set Screw ...4
(74) 2ø Stopper ....3

WWW 78 Linkage Spring...1

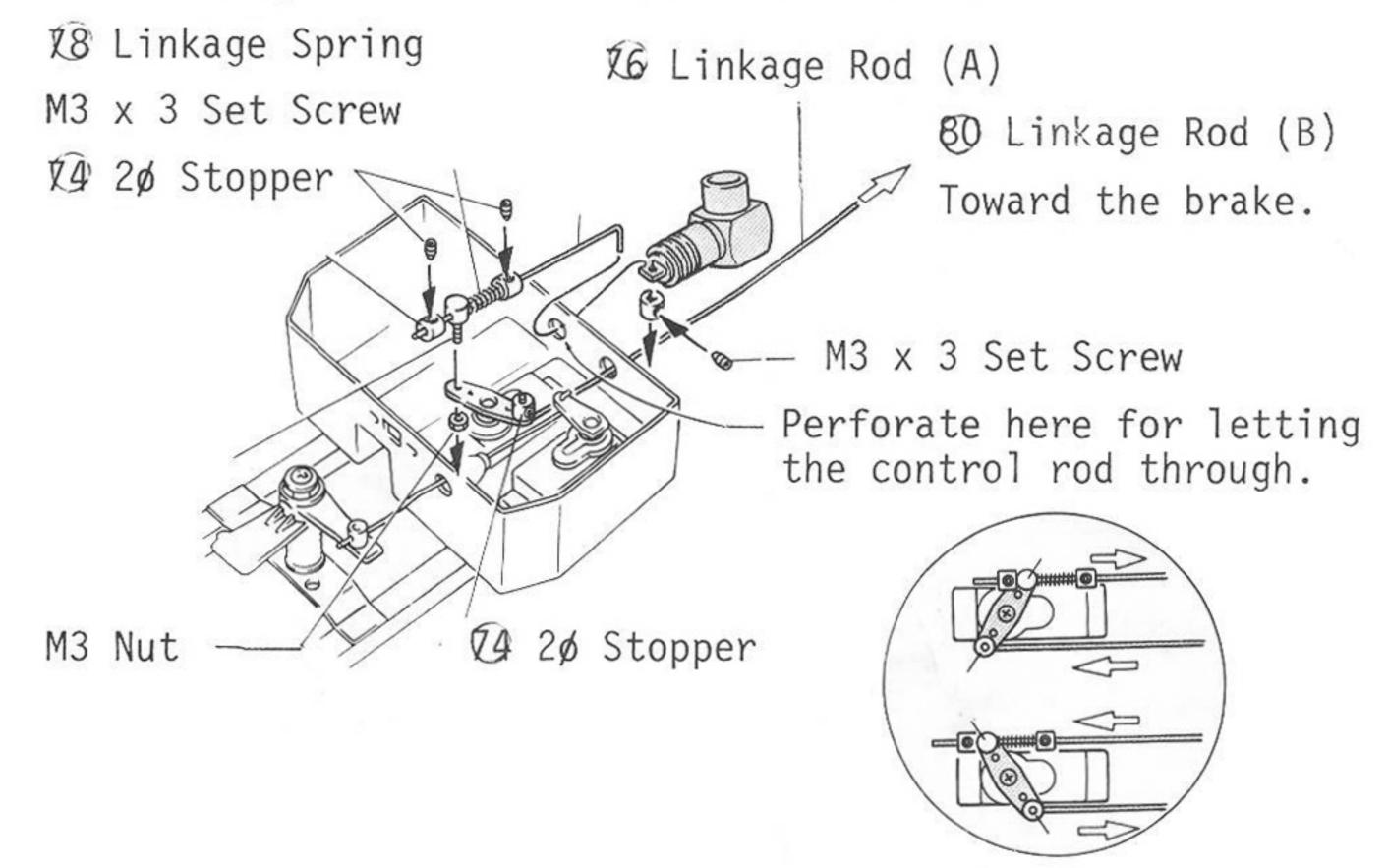
If you have an HP .25 VT/car engine you must use a ball link similar to the dubro #191 for the carb linkage. It would then hook up similar to the Enya installation shown at right.

#### 25 LINKAGE OF ENGINE CONTROL



[Linkage for Enya Slide Carb]

(Note:)When slide carburator is employed, arrange the linkage as shown in the drawing below; the servo, in this case, should be reverse rotation.



#### 26 LINKAGE OF BRAKE SYSTEM

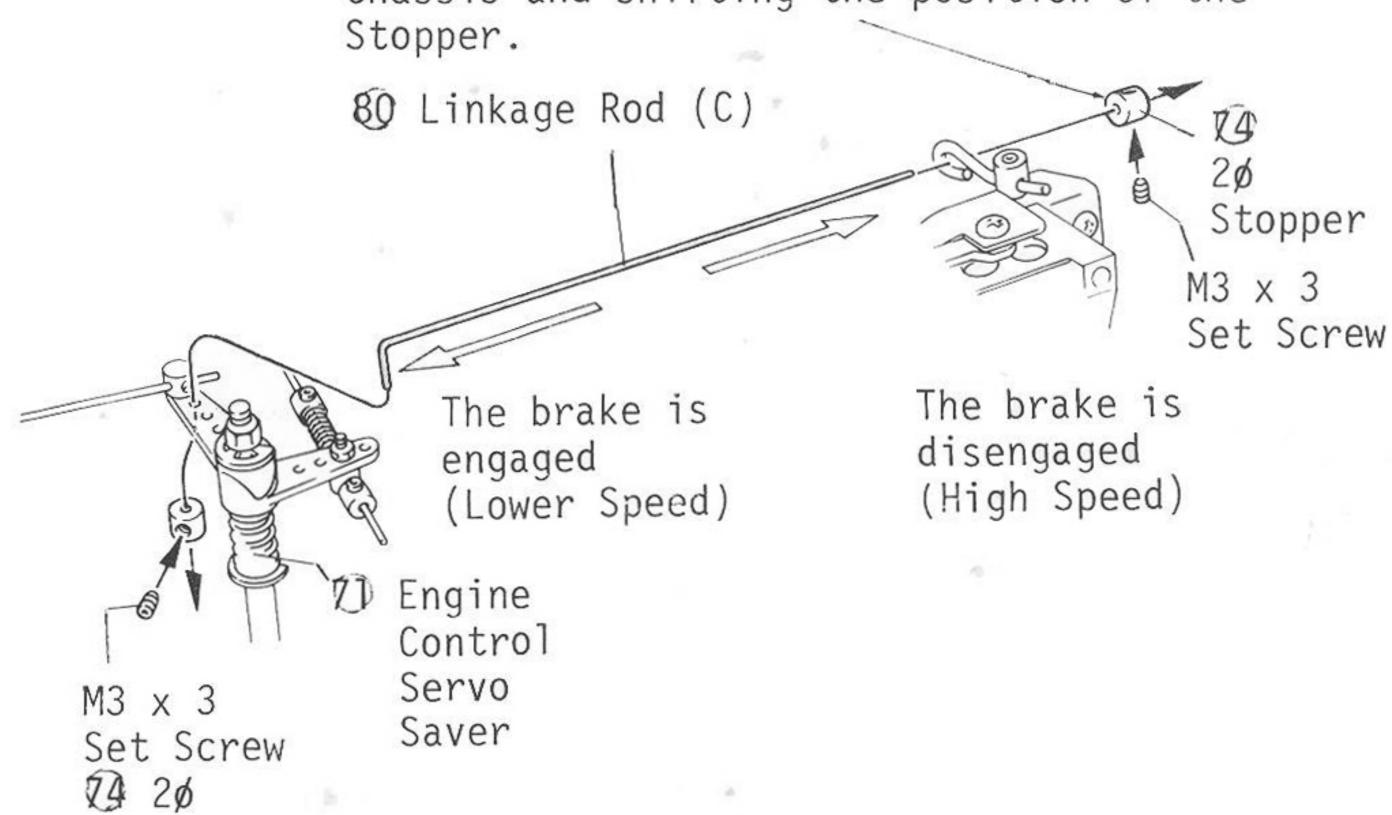
[Small Parts Used]

M3 x 3 Set Screw ..2

() The stopper of the

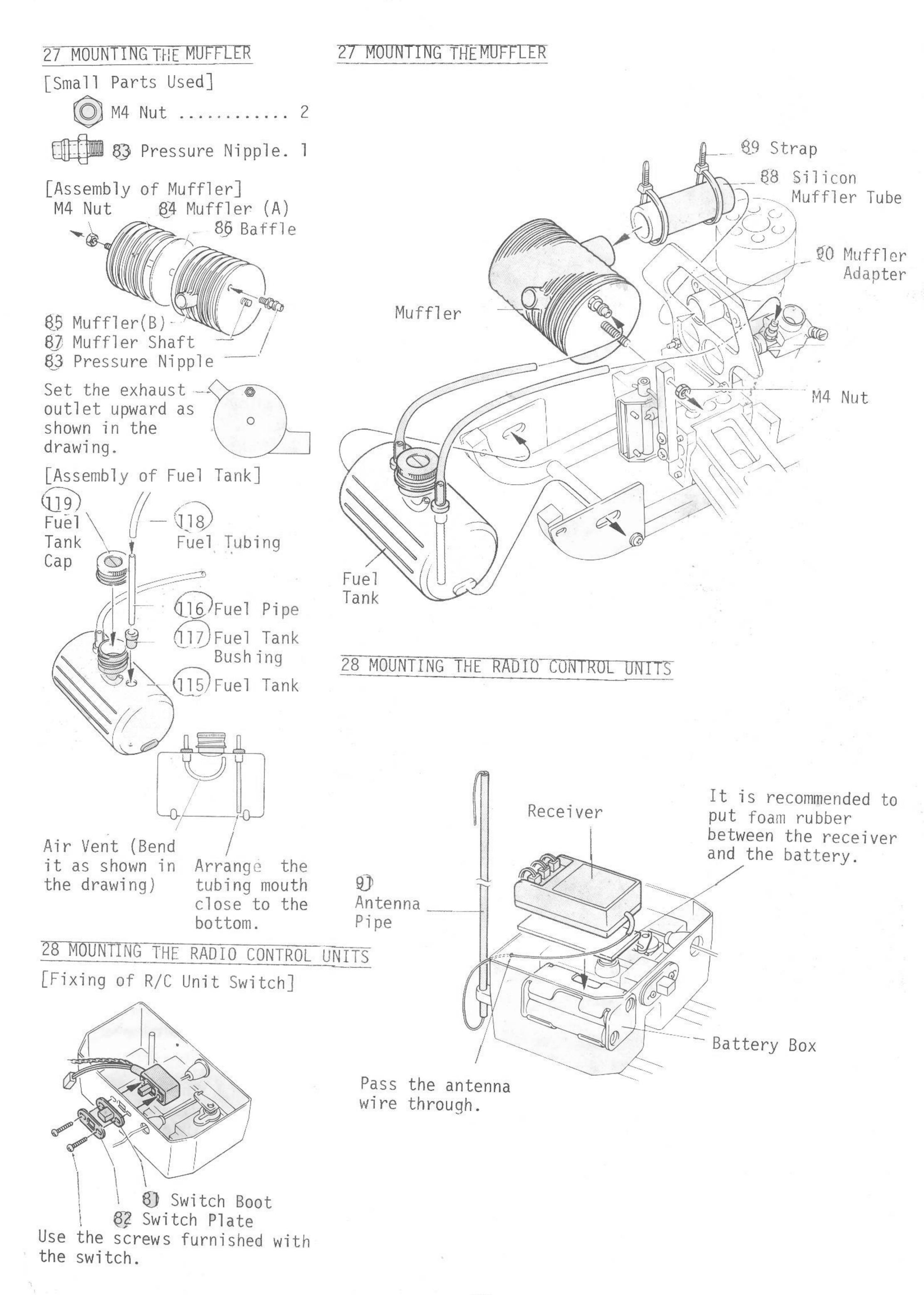
#### 26 LINKAGE OF BRAKE SYSTEM

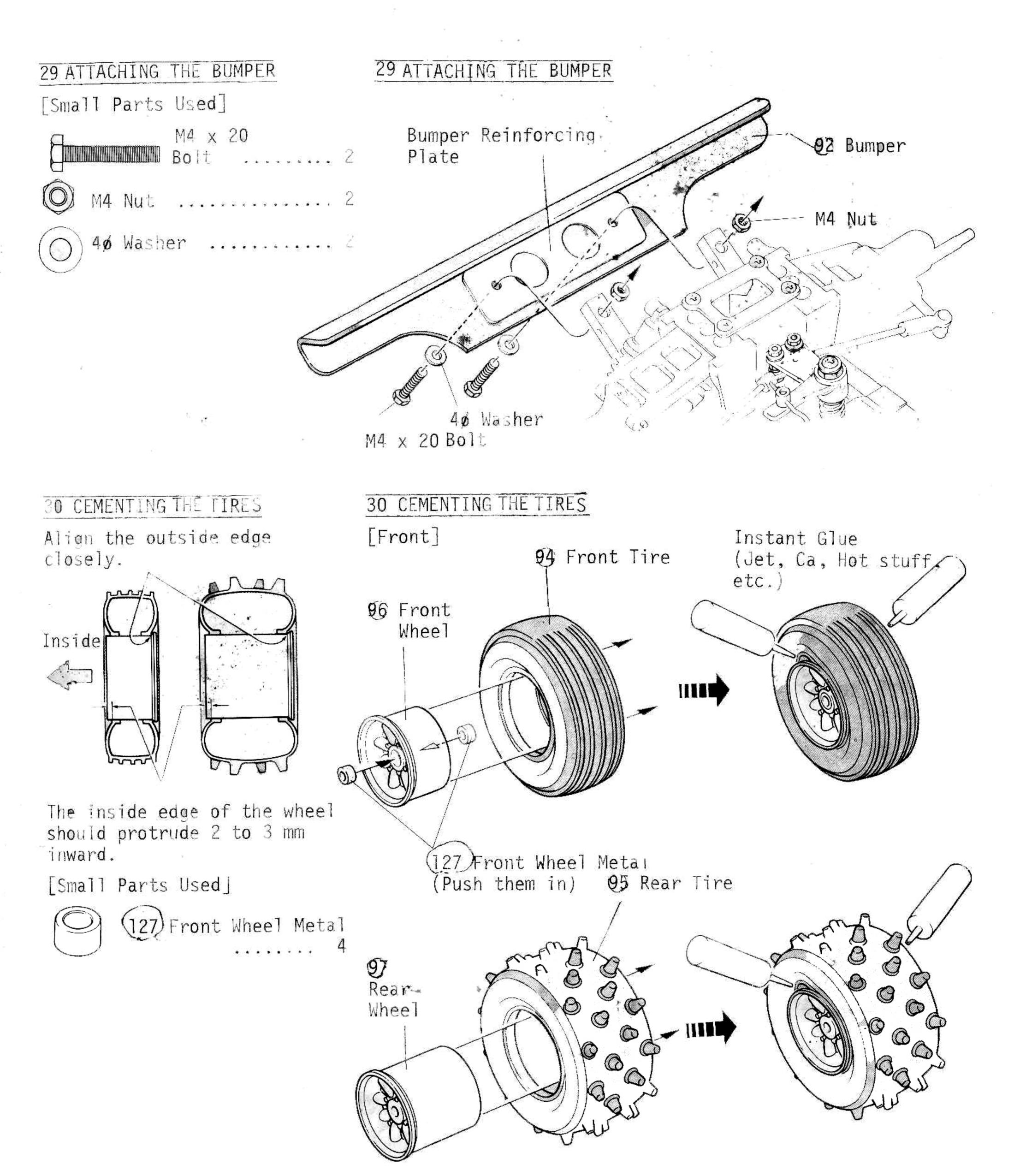
The braking effect can be adjusted by loosening the stopper setscrew under the chassis and shifting the position of the Stopper.

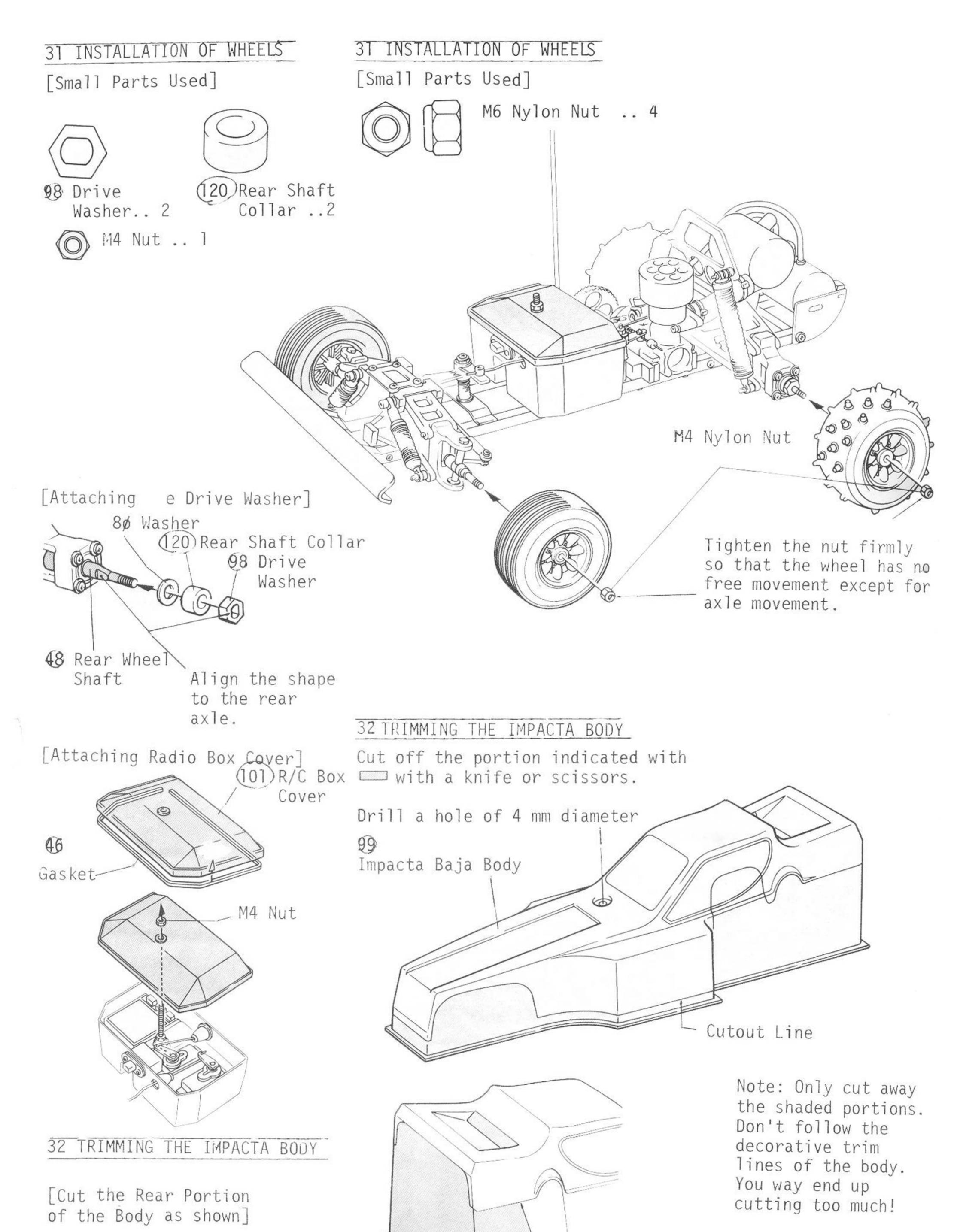


- 16 -

Stopper





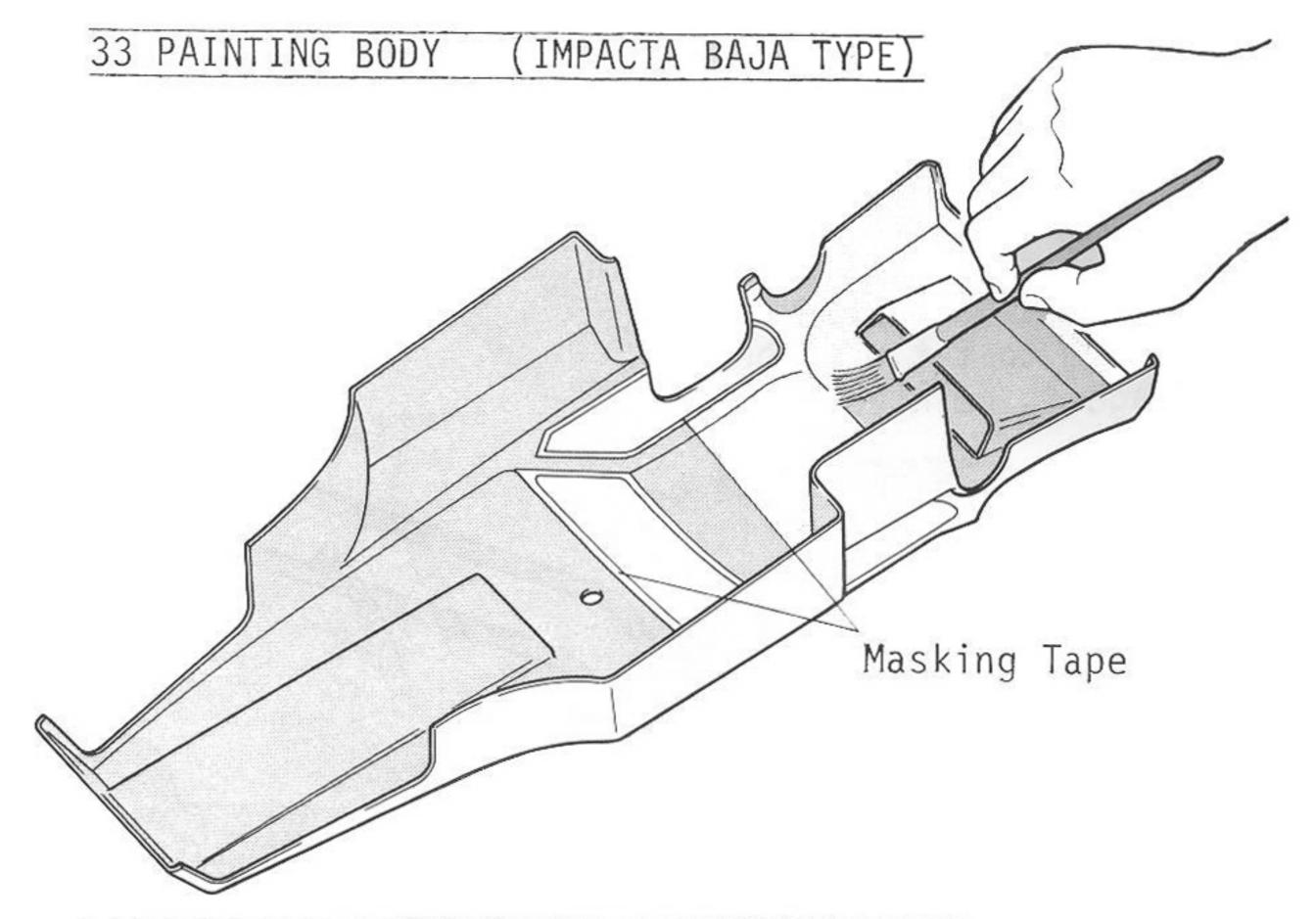


Cutout Line

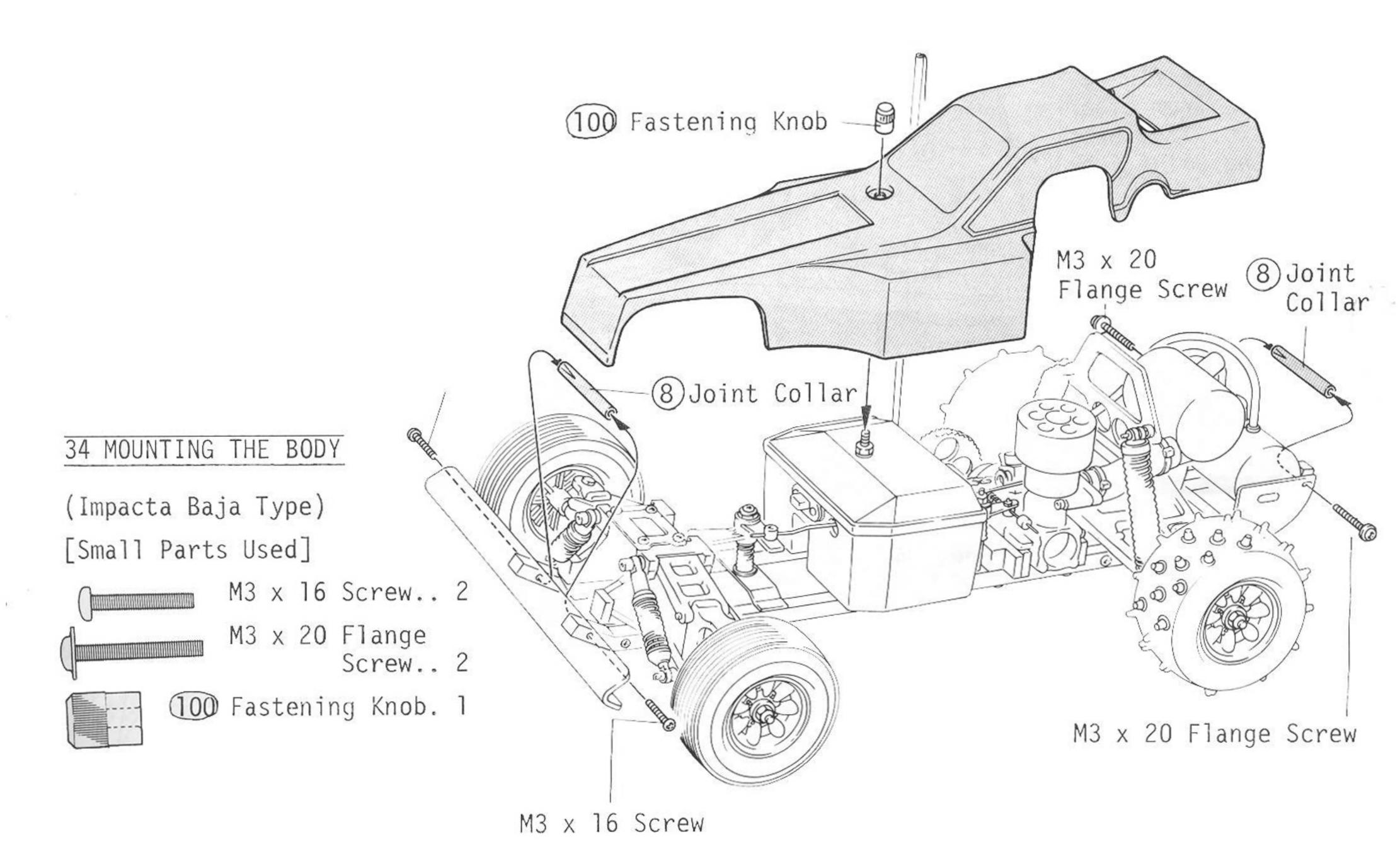
## 33 PAINTING BODY (IMPACTA BAJA TYPE)

The body of the Impacta (the Mint features a roll cage) is made from clear plastic. The best looking paint job can be had by painting the INSIDE of the body. Before painting, wash the body with a mild detergent (like dishsoap) and warm water to remove any residual manufacturing oils. Make sure the body is completely dry before painting.

Use a high quality, fuel proof, plastic-type paint (such as pactra's Formula-U). Regular model enamels will dissolve and flake off.



34 MOUNTING THE BODY (IMPACTA BAJA TYPE)

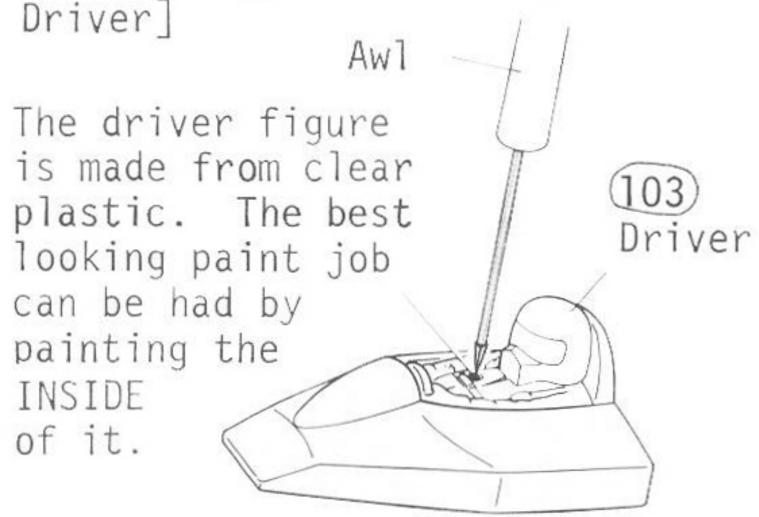


#### 35 PAINTING THE MINT ROLLCAGE

Before painting the rollcage of the Mint Baja, be sure that all of the mounting holes on the cage align properly with those on the chassis. If they do not line up, it is easier to bend them to fit now, before the cage is painted.

Before painting, wash the cage with a mild detergent (like dishsoap) and warm water to remove any residual manufacturing oils. Make sure the cage is completely dry before painting. Use a high quality, fuel proof paint (such as pactra's Formula-U). Regular model enamels will disolve and flake off.

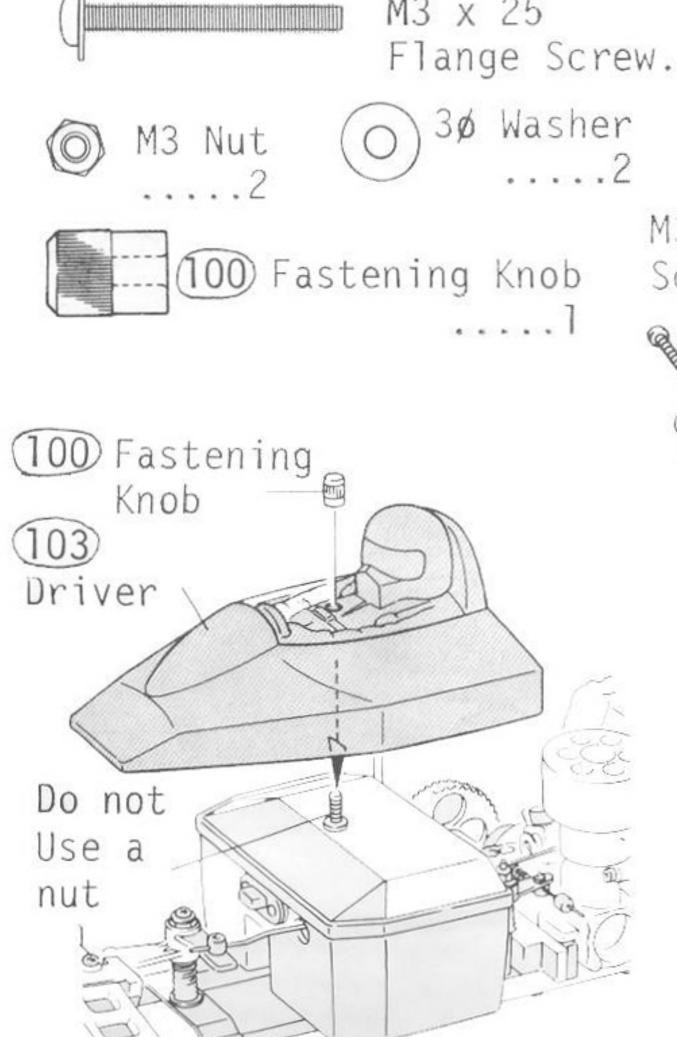
[Processing and Painting the



#### 36 INSTALLATION OF ROLL CAGE

(Mint Baja Type)

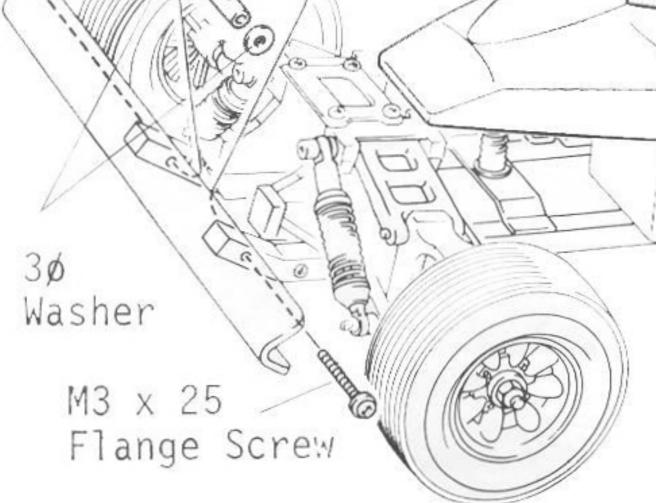
[Small Parts Used]



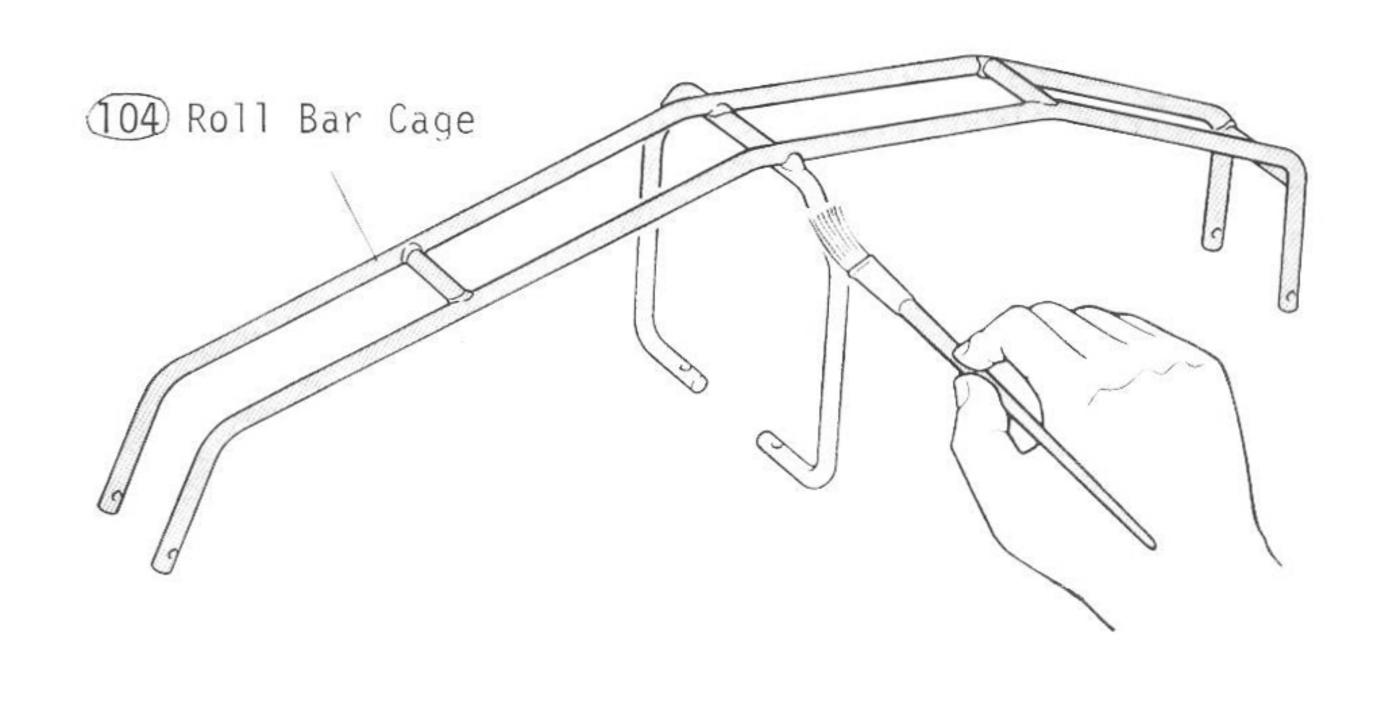
M3 x 20 Screw..2  $M3 \times 25$ 

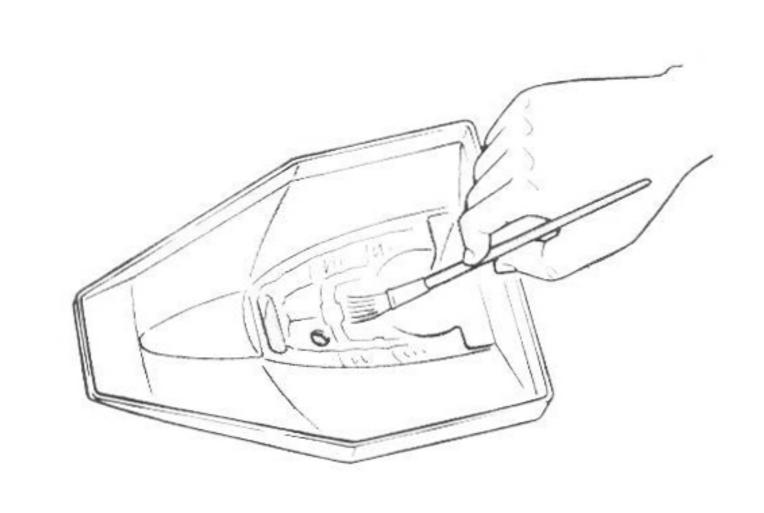
Flange Screw...4

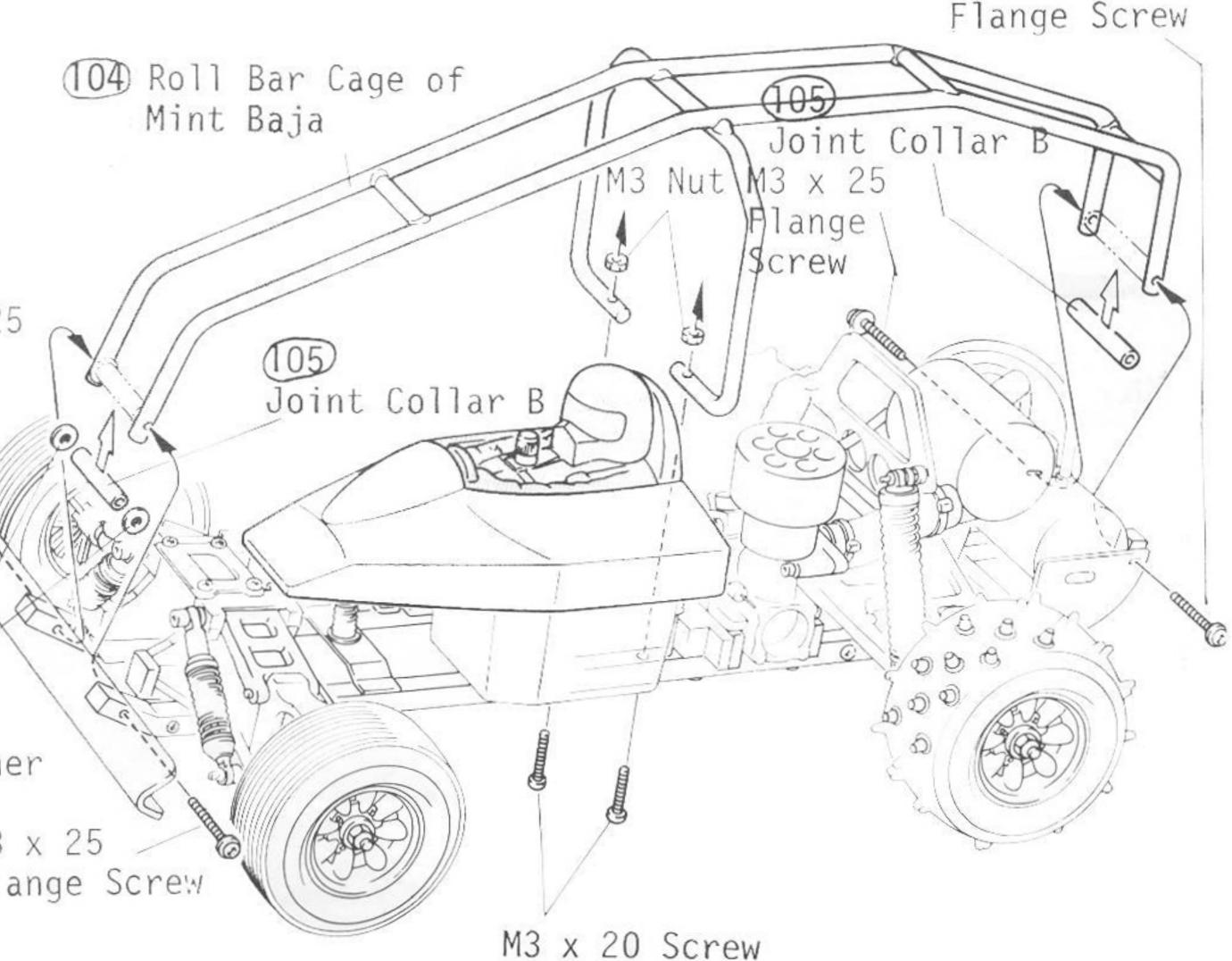
 $M3 \times 25$ Screw



35 PAINTING THE MINT ROLLCAGE

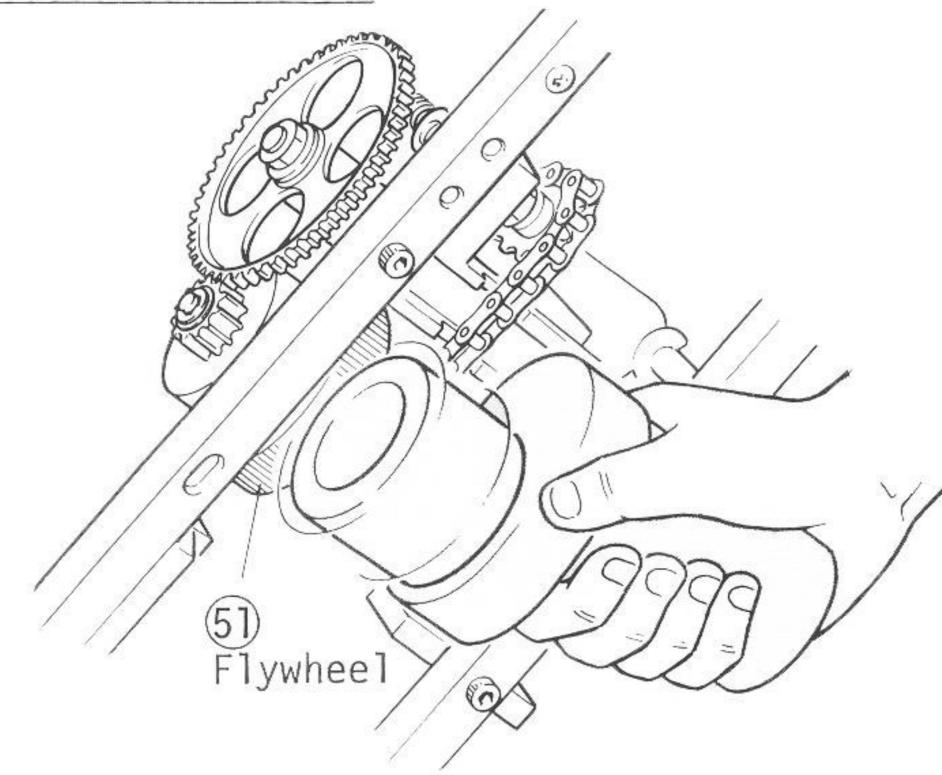






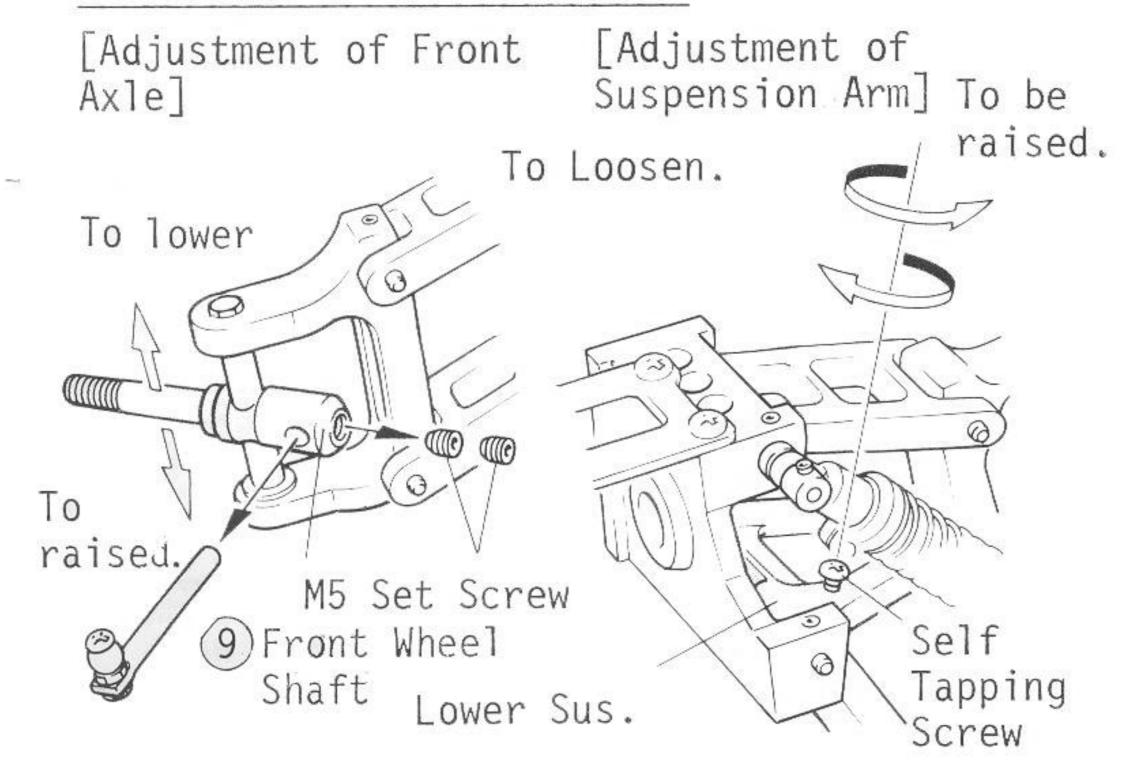
 $M3 \times 25$ 

#### HOW TO START ENGINE



The engine of the Circuit 2000 cars is started by using an electric starter fitted with a rubber "donut". Pressing the starter up against the flywheel (from the bottom of the car) causes the motor to spin (don't forget to hook up the glow plug to a power source). It may take you a few times to get the "hang" of this, but keep trying. After a short time, you'll be able start the car on the first try almost every time. The easiest way to stop the engine is to pinch the fuel tubing with your fingers until the engine runs out of gas.

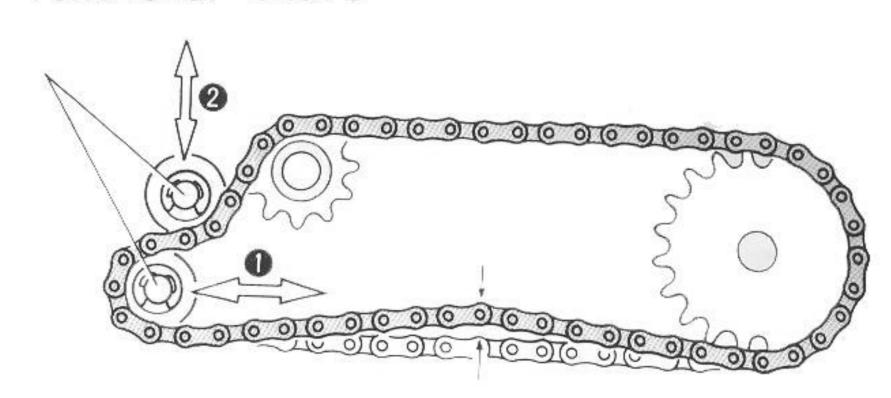
#### ADJUSTMENT OF CAR CLEARANCE



Remove the M5 setscrew which is holding the front axle 9 and move the axle up or down to adjust the car clearance. Be sure to have the same clearance on the right and left sides. You can also adjust the clearance with the suspension arm by turning the self tapping screw right or left.

#### CHECK UP OF CHAIN

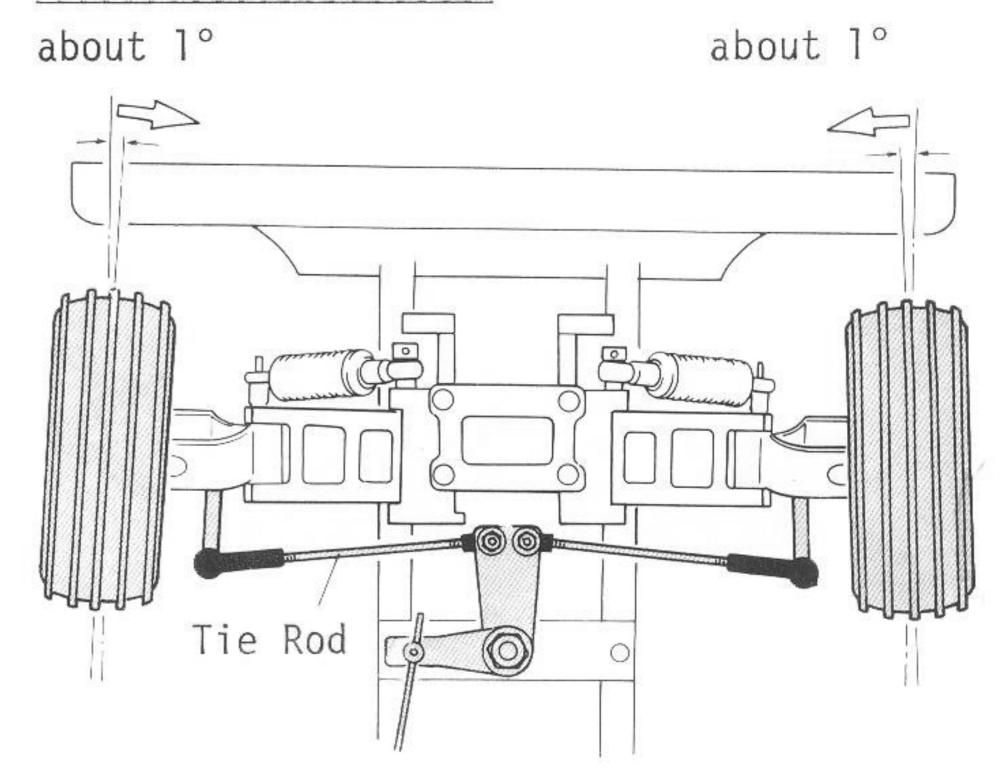
#### 66 Tensioner Shaft



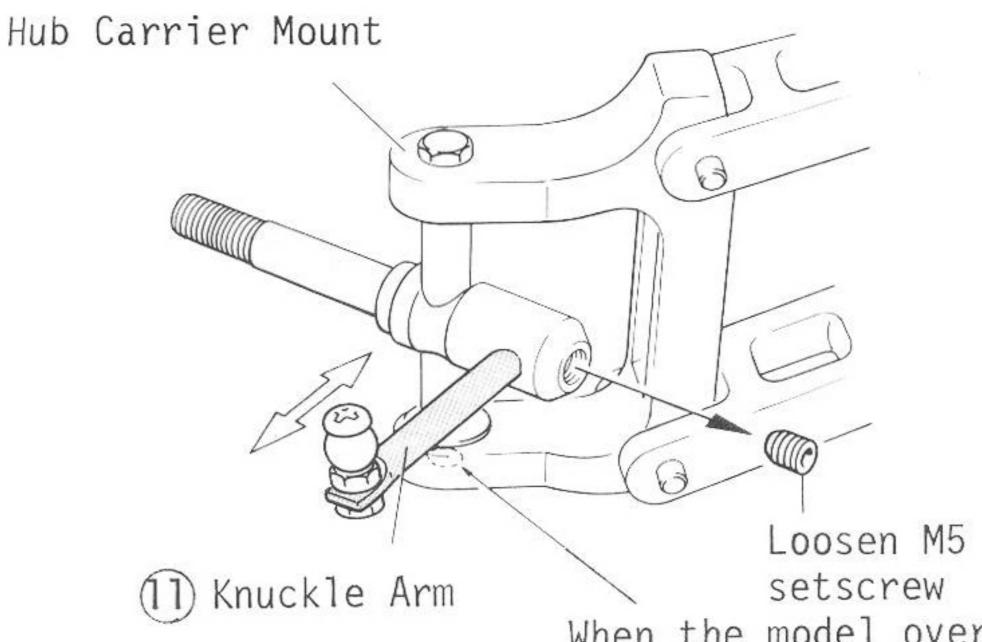
About 3 mm

The chain will stretch the first few times that you run the car. The slack can be adjusted by sliding the tensioner shaft (66) horizontally and vertically. When the chain is properly adjusted, it will have about 3mm of play.

#### ADJUSTMENT OF TOE-IN



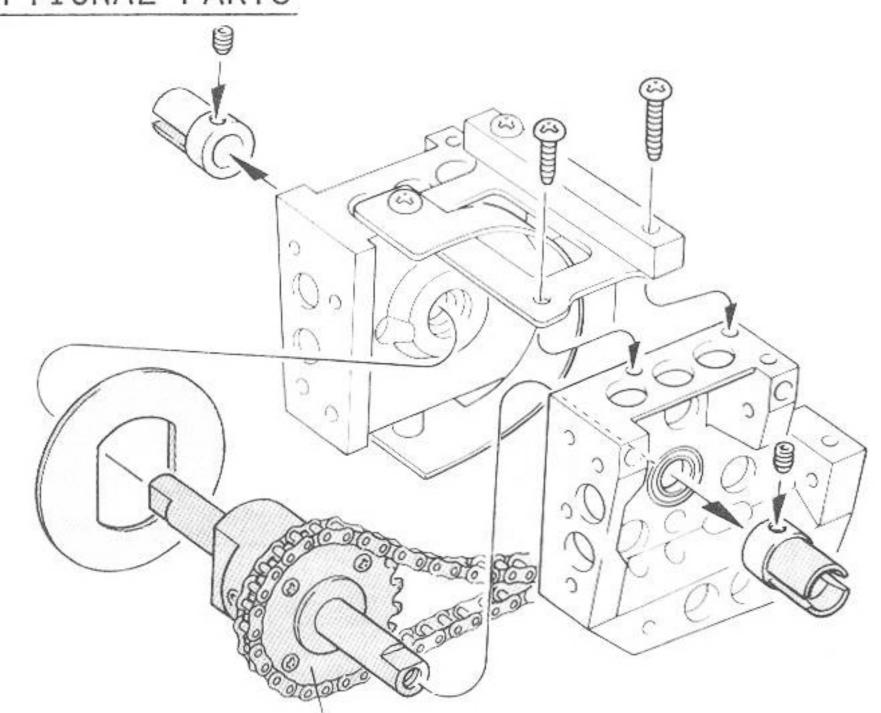
Toe-in is an adjustment of the front wheels that makes them converge slightly toward the front. This helps the model run in a straight line. Toe-in can be adjusted by changing the threaded tie rods. This model seems to run best with about 1 degree of toe-in on each side.



The Akkerman effect is a difference in the steering between the right and left wheels. This adjustment can be made by shifting the length of the knuckle arm; by making it shorter, the car will oversteer accordingly and by making it longer the car will understeer accordingly.

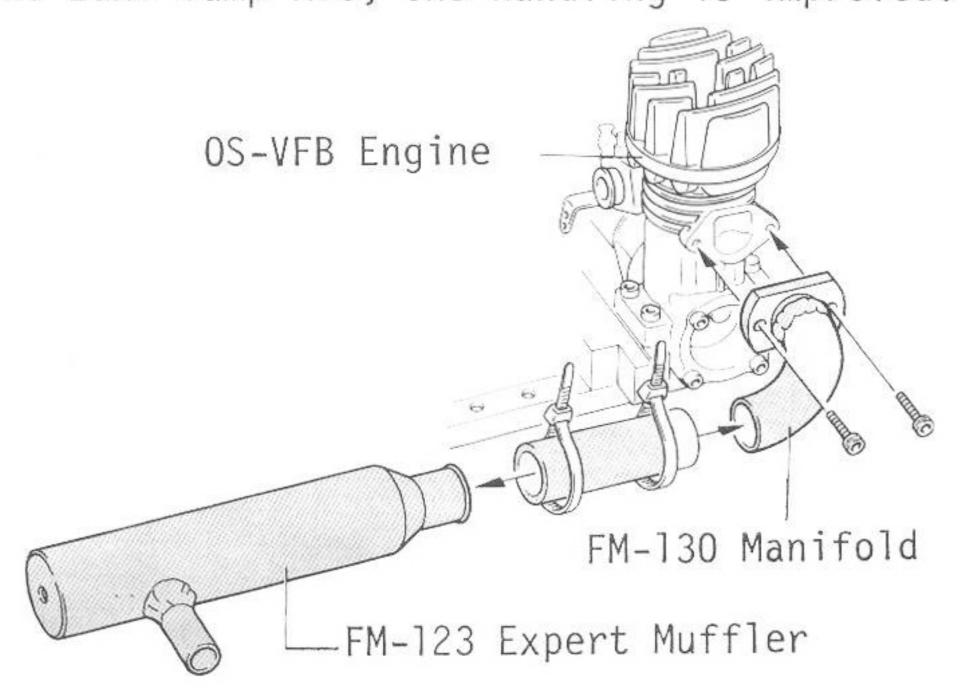
When the model oversteers, correct it by enlarging the hole for the kind pin on the hub carrier mount.

#### OPTIONAL PARTS

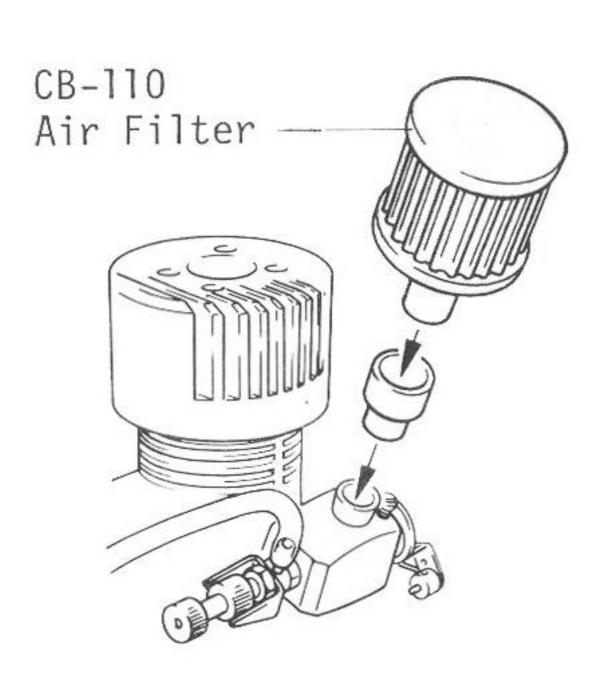


LD-79 Differential for Land Jump

With the LD-79 Rear Differential Gear for the Land Jump Kit, the handling is improved.



With the OS Max -21 VF-B rear exhaust engine, use the manifold and muffler combination shown, above.



#### [Using an Air Filter]

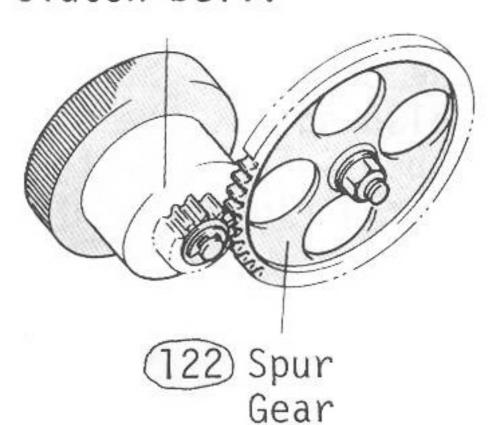
To keep the engine free from dust, use an air filter to the carburetor without fail. It is available as an optional part.

Clut	ch Bell	Spur	Gear	Gear	Ratio
12T	(SD-53)	53T	(LD-27)	10.6	: 1
13T	(SD-54)	52T	(LD-26)	9.6	: 1
14T	(SD-55)	51T	(LD-25)	8.7	: 1

The above combination is the only way possible to mesh the spur gear with the clutch bell.



Clutch bell.



[Changing Gear Ratios]

The 13 tooth clutch bell (61) and 52 tooth spur gear (122) are included with the kit and produce a gear ratio of 9.6:1.

Optional gears will provide either 8.7:1 or 10.6:1 ratios.

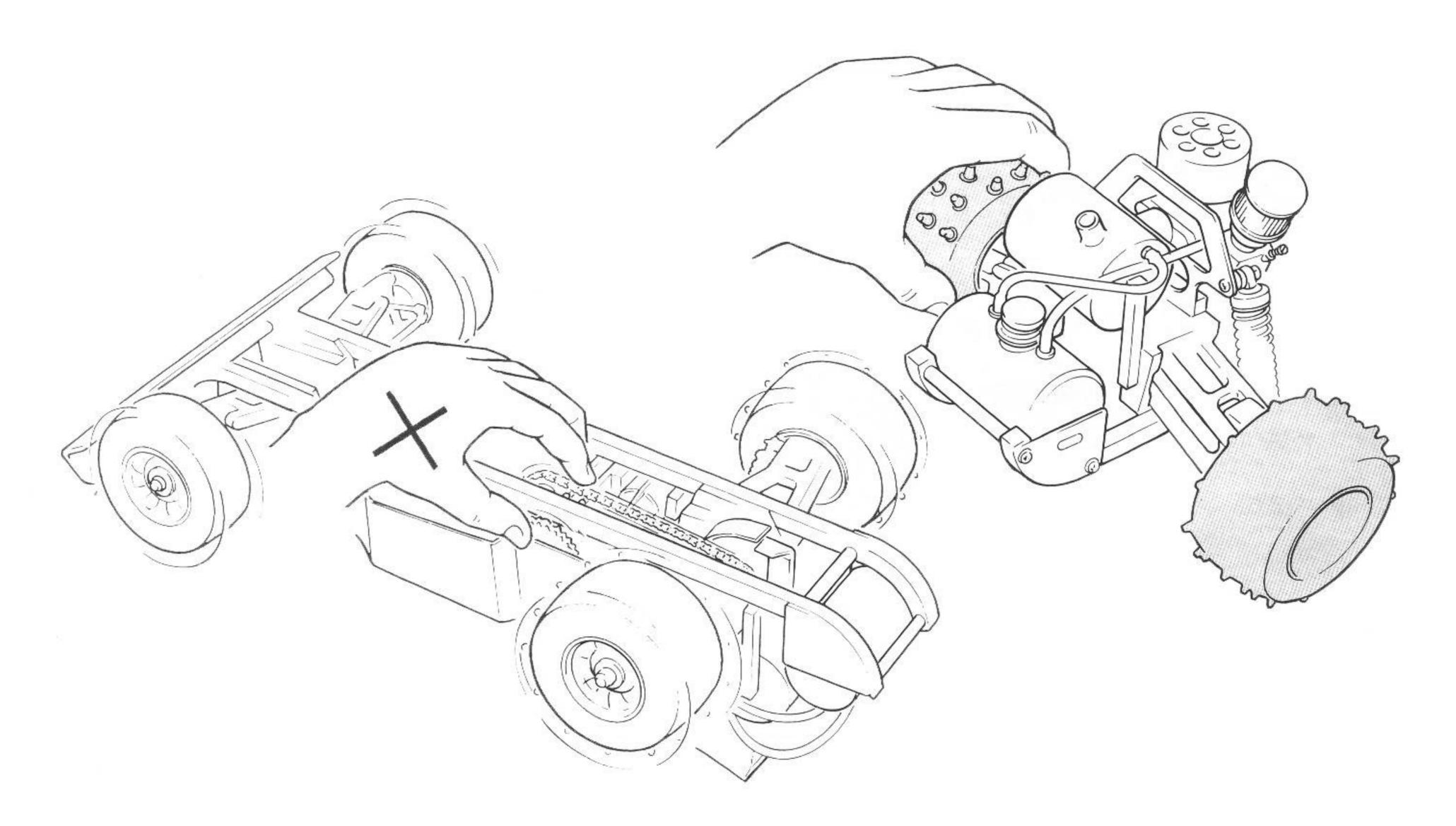
The 8.7:1 ratio will provide higher speed.

The 10.6:1 ratio will improve handling and climbing.

#### CAUTION

This car uses a chain and gearing for the drive system that moves at a very high speed and can be dangerous if not handled properly. NEVER touch the chain or gears while the engine is running (even if the drive parts are not turning).

Always make adjustments to the engine (needle valve, etc.) while the engine is at idle. Hold the rear wheels firmly (or have a friend do it for you) so that if they start to move, the car won't get away from you or get tangled in your cords or clothing. After making the adjustments, put the car down and DRIVE it to see if the adjustment is correct.



Never allow children to be in the immediate area that you are running your car. Kids love to chase RC cars (which is usually not too dangerous with the small electric types), BUT the Circuit 2000 is a high performance vehicle capable of much damage and pain if it runs into someone.

<sup>\*</sup>If the car overturns, do not touch the chain or gears. Try to pick it up by the front bumper.

PARTS LIST

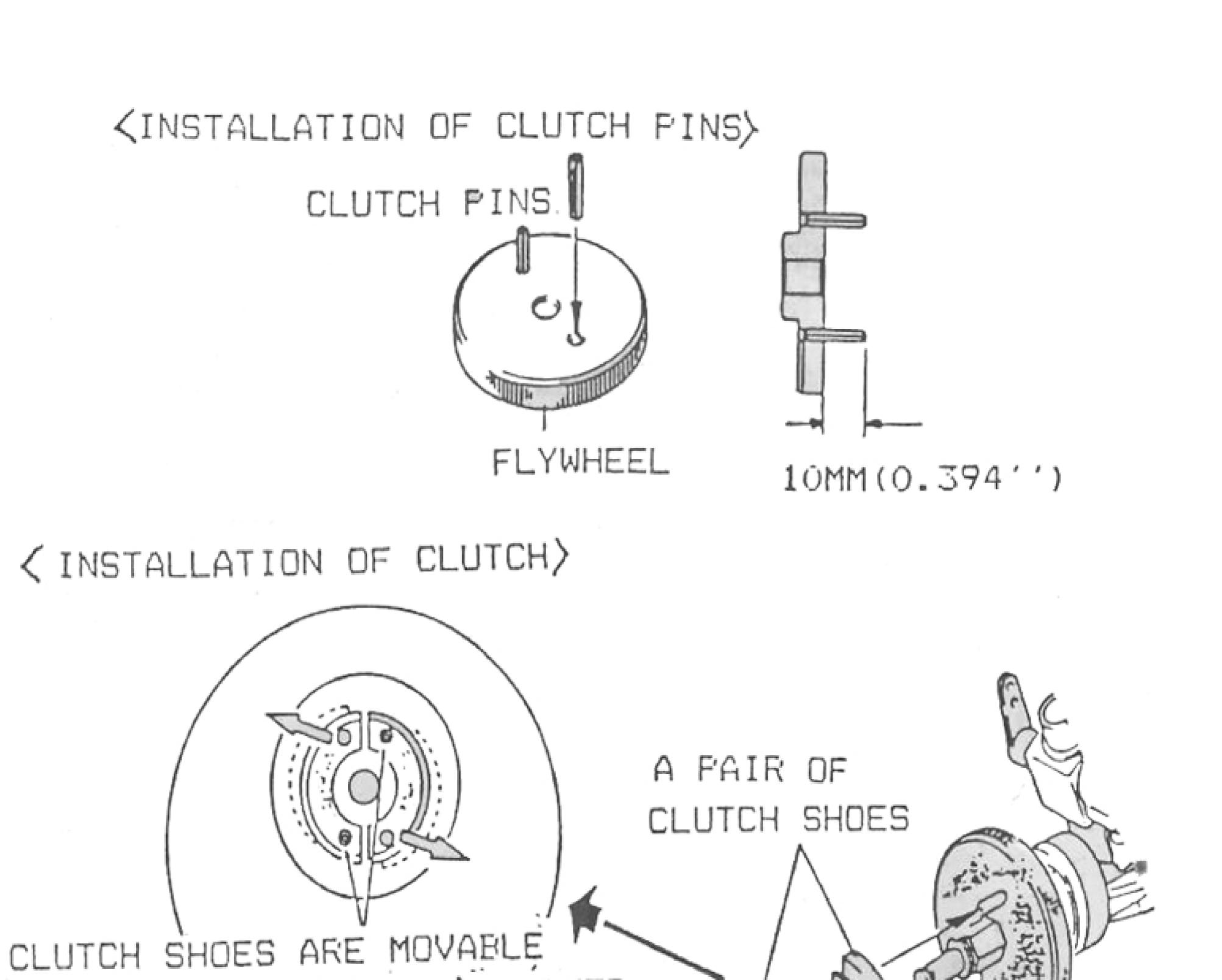
PARI.	5 L151				
No.	Parts Name	Qty	No.	Parts Name	Qty
1	Main Chassis	2	59	Clutch Bearing	1 set
2	Servo Saver Mount	1	60	Lining	1 300
3	Servo Saver	1	61	Clutch Bell (13Z)	1
4	Servo Saver Shaft	1	62	E-ring (E-3)	i
5	Ball Collar	2	63	Adjust Spring	i
6	Steering Linkage Guide	1	64	Nylon Washer	i
7	Stay for Tank Installation	2	65	Spur Gear Shaft	i
8	Joint Collar		66	Tensioner Shaft	2
	For Impacta Baja	3	67	Tensioner Guide	2
	For Mint Baja	1	68	E-Ring (E-4)	2
9	Front Wheel Shaft	2	69	Linkage Guide	2
10	King Pin Shaft	2	70	Engine Control Servo Sav	
11	Knuckle Arm	7	/1	Engine Control Servo Sav	ver 1
12	Hub Carrier Mount (R)	1	72	Servo Plate	1
14	King Pin	4	73 74	Servo Plate Collar	2
15	Ball Ball	8	74 75	2 ø Stopper Rod Boots	2 cot
16	Bulk Head (R)	2	76	Linkage Rod (A)	2 set
17	" (L)	2	77	" (B)	1
18	Front Lower Arm	2	78	Linkage Spring	i
19	Front Upper Arm	2	79	Mechanism Box	i
20	Lower Arm Shaft (A)	4	80	Linkage Rod (C)	i
21	" (B)	4	81	Switch Boots	j
22	Upper Arm Shaft (A)	4	82	Switch Plate	1
23	" (B)	2	83	Pressure Nipple	]
24	Bushing for Damper Installa	ition 4	84	Muffler (A)	1
25	3 ø stopper	2	85	Muffler (B)	1
26	Bulk Head Plate	2	86	Baffle	]
27	Damper Oil	6	87	Muffler Shaft	
28	Ball End (S)	2	88	Muffler Pipe	1
29 30	Tie Rod	2	89	Strap Muffles Adaptes	2
31	Rear Axle Bearing	2 set	90 91	Muffler Adapter	1
32	Damper Stay (A)	1	92	Antenna Pipe Bumper	1
33	Brake Cover	i	93	Reinforcement Plate for	Rumnerl
34	Center Shaft	7	94	Front Tire	2
35	Disk Plate	]	95	Rear Tire	2
36	Brake Arm	7	96	Front Wheel	2
37	Brake Pad (A)	]	97	Rear Wheel	2
38	" (B)	1	98	Drive Washer	2
39	Brake Caliper		99	Body for Impacta	1
40	Brake Shaft	1 7	100	Installation Knob	]
41 42	Muffler Stay	2	101	Mechanism Box Cover	1
43	Joint Rear Upper Shaft	2	102	Mechanism Box Seal	1
44	Damper Stay (B)	1	103 104	Doll (Mint	1
45	Damper Collar	7	104	Body for Mint Joint Collar (D)	2
46	Rear Wheel Shaft	2	106	Rear Damper	2
47	Rear Bearing	2	107	Rear Suspension Spring S	itav 2
48	Swing Shaft	2	108	Rear Spring	2
49	Clutch Pin (S) for OS	2	109	Spring Holder	2
50	" (L) for Enya &	Irvine2	110	Front Damper	2
51	Flywheel	1	111	Front Suspension Spring	Stopper 2
52 53	" Spacer	2	112	Front Spring Holder	2
	Clutch Sheet	1	113	Spur Gear Mount	1
54	Pilot Shaft	l T	114	Spur Gear Metal	2
55 56	Engine Mount (A)	1	115	Fuel Tank	
56 5 <b>7</b>	· Clutch Shoe	2	116	Fuel Tank Pipe	2
58	Clutch Spring	2	117	Fuel Tank Bushing	2
30	oracen spring	_	118	Fuel Tank Tube	1

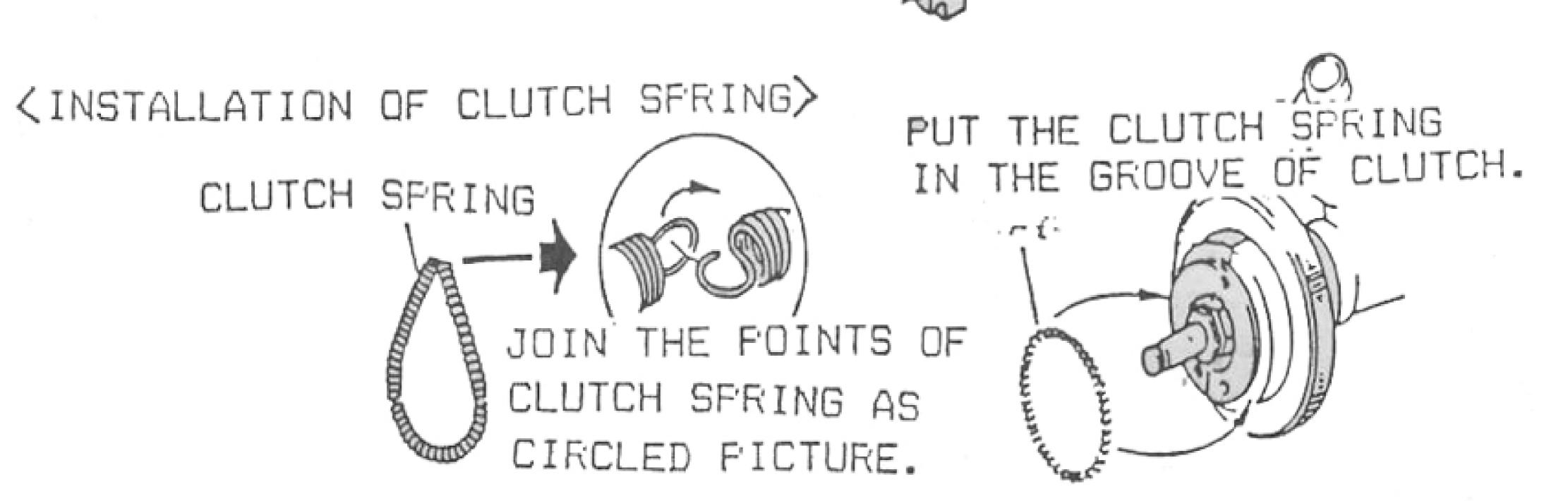
119	Fuel Tank Cap	1
120	Rear Shaft Collar	2
121	Rear Sprocket	1
122	Spur Gear	1
123	Chain	1
124	Rear Upper Arm	2
125	Rear Lower Arm	2
126	Rear Hub	2
127	Front Wheel Metal	4
128	Decal	1
129	Front Spring	2

LD-20	No.	Description	Key No. & Consisting of
LD-22	LD- 1	Bumper	92 93 x 1
LD-24	LD-20	Engine Mount	55 56 x 1
LD-26	LD-22	Chain Tensioner	63 66 67 68 x 1
LD-28			
LD-29			
LD-32			
LD-35			
LD-36			
LD-38		· .	
LD-45			그 그리고 그 그리고 그리고 그리고 그리고 그리고 그리고 있다면 그리
LD-70   Clutch Bearing   LD-76   Damper Rubber Bush   24 x 10			
Damper Rubber Bush			
CB-11       Swing Shaft       48 x 2         CB-15       Ball Bearing       47 x 2         CB-28       Clutch Parts       60 x 1, 49 57 58 x 2         CB-51       Center Shaft       34 x 1         CB-52       Joint       42 x 2         CB-67       Clutch Spring       58 x 4         CB-72       E-Ring (E-3)       62 x 4         CB-80       Front Wheel       96 x 2, 127 x 4         CB-81       Rear Wheel       97 98 x 2         CB-89       Oil Damper (R)       15 28 106 x 2         SD-76       Flywheel       51 x l         SD-54       Clutch Bell (13Z)       61 x l         SD-55       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilott Shaft       54 x l         FM-28A       Flywheel Spacer       52 x l         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 5       Knuckle Arm Set       10 11 x 2			
CB-15       Ball Bearing       47 x 2         CB-28       Clutch Parts       60 x 1, 49 57 58 x 2         CB-51       Center Shaft       34 x 1         CB-52       Joint       42 x 2         CB-67       Clutch Spring       58 x 4         CB-72       E-Ring (E-3)       62 x 4         CB-80       Front Wheel       96 x 2, 127 x 4         CB-81       Rear Wheel       97 98 x 2         CB-84       Ball Bearing       31 x 2 (Sealed Type)         CB-89       0il Damper (R)       15 28 106 x 2         SD-76       Flywheel       51 x 1         SD-54       Clutch Bell (13Z)       61 x 1         SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x 1         FM-28A       Flywhee! Spacer       52 x 1         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 5       Knuckle Arm Set       10 11 x 2			
CB-28			
CB-51       Center Shaft       34 x 1         CB-52       Joint       42 x 2         CB-67       Clutch Spring       58 x 4         CB-72       E-Ring (E-3)       62 x 4         CB-80       Front Wheel       96 x 2, 127 x 4         CB-81       Rear Wheel       97 98 x 2         CB-84       Ball Bearing       31 x 2 (Sealed Type)         CB-89       Oil Damper (R)       15 28 106 x 2         SD-76       Flywheel       51 x 1         SD-54       Clutch Bell (13Z)       61 x 1         SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x 1         FM-28A       Flywheel Spacer       52 x 1         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4			
CB-52       Joint       42 x 2         CB-67       Clutch Spring       58 x 4         CB-72       E-Ring (E-3)       62 x 4         CB-80       Front Wheel       96 x 2, 127 x 4         CB-81       Rear Wheel       97 98 x 2         CB-84       Ball Bearing       31 x 2 (Sealed Type)         CB-89       Oil Damper (R)       15 28 106 x 2         SD-76       Flywheel       51 x 1         SD-54       Clutch Bell (13Z)       61 x 1         SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x 1         FM-28A       Flywheel Spacer       52 x 1         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4     <			
CB-67       Clutch Spring       58 x 4         CB-72       E-Ring (E-3)       62 x 4         CB-80       Front Wheel       96 x 2, 127 x 4         CB-81       Rear Wheel       97 98 x 2         CB-84       Ball Bearing       31 x 2 (Sealed Type)         CB-89       Oil Damper (R)       15 28 106 x 2         SD-76       Flywheel       51 x l         SD-54       Clutch Bell (13Z)       61 x l         SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x l         FM-28A       Flywhee! Spacer       52 x l         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 9       Front Arm Set       18 19 x 1			
CB-72       E-Ring (E-3)       62 x 4         CB-80       Front Wheel       96 x 2, 127 x 4         CB-81       Rear Wheel       97 98 x 2         CB-84       Ball Bearing       31 x 2 (Sealed Type)         CB-89       Oil Damper (R)       15 28 106 x 2         SD-76       Flywheel       51 x 1         SD-54       Clutch Bell (13Z)       61 x 1         SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x 1         FM-28A       Flywheel Spacer       52 x 1         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 9       Front Arm Set       18 19 x 1			
CB-80       Front Wheel       96 x 2, 127 x 4         CB-81       Rear Wheel       97 98 x 2         CB-84       Ball Bearing       31 x 2 (Sealed Type)         CB-89       0il Damper (R)       15 28 106 x 2         SD-76       Flywheel       51 x 1         SD-54       Clutch Bell (13Z)       61 x 1         SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x 1         FM-28A       Flywhee! Spacer       52 x 1         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
CB-84 Ball Bearing 31 x 2 (Sealed Type) CB-89 0il Damper (R) 15 28 106 x 2 SD-76 Flywheel 51 x 1 SD-54 Clutch Bell (13Z) 61 x 1 SD-56 Lining 60 x 5 FM-20 Clutch Sheet 53 x 5 FM-73 Pilot Shaft 54 x 1 FM-28A Flywheel Spacer 52 x 1 SC-85 Front Damper 15 28 110 111 112 129 x 2 EF-38 Strap (M) 89 x 6 KC- 1 Main Chassis 1 x 2 KC- 2 Plate Set 2 x 1, 7 26 x 2 KC- 3 Servo Saver 3 4 x 1 KC- 4 Front Wheel Shaft 9 x 2 KC- 5 Knuckle Arm Set 10 11 x 2 KC- 6 Hub Carrier Mount 12 13 x 1 KC- 7 King Pin 14 x 4 KC- 8 Bulk Head 16 17 x 1 KC- 9 Front Arm Set 18 19 x 1			96 x 2, 127 x 4
CB-89	CB-81	Rear Wheel	97 98 x 2
SD-76       Flywheel       51 x 1         SD-54       Clutch Bell (13Z)       61 x 1         SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x 1         FM-28A       Flywhee! Spacer       52 x 1         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1	CB-84		31 x 2 (Sealed Type)
SD-54       Clutch Bell (13Z)       61 x 1         SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x 1         FM-28A       Flywheel Spacer       52 x 1         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1	CB-89	Oil Damper (R)	15 28 106 x 2
SD-56       Lining       60 x 5         FM-20       Clutch Sheet       53 x 5         FM-73       Pilot Shaft       54 x 1         FM-28A       Flywhee! Spacer       52 x 1         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1	SD-76		
FM-20		[사람이 보통 전기 및 기계에서 기계 등 기계	
FM-73  Pilot Shaft			
FM-28A       Flywheel Spacer       52 x l         SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x l         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x l         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x l         KC- 9       Front Arm Set       18 19 x l			
SC-85       Front Damper       15 28 110 111 112 129 x 2         EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
EF-38       Strap (M)       89 x 6         KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
KC- 1       Main Chassis       1 x 2         KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
KC- 2       Plate Set       2 x 1, 7 26 x 2         KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
KC- 3       Servo Saver       3 4 x 1         KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
KC- 4       Front Wheel Shaft       9 x 2         KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			2018 - 1922 No. 17 - 구성을 No 1888 No 1888 No 1888 No 1888
KC- 5       Knuckle Arm Set       10 11 x 2         KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
KC- 6       Hub Carrier Mount       12 13 x 1         KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
KC- 7       King Pin       14 x 4         KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			
KC- 8       Bulk Head       16 17 x 1         KC- 9       Front Arm Set       18 19 x 1			14 x 4
KC-9 Front Arm Set			16 17 x 1
KC-10 Rear Arm Set 124 125 126 x 1	KC- 9	Front Arm Set	
	KC-10	Rear Arm Set	124 125 126 x 1

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23 43 x 2, 20 21 22 x 4
KC-11
           Arm Shaft Set
                                                       28 29 30 x 2 , 15 x 4
           Tie Rod Set
KC-12
                                                       32 41 44 x 1
           Damper Stay Set
KC-13
                                                       46 120 x 2
           Rear Wheel Shaft
KC-14
                                                       123 x 1
KC-15
           Chain
                                                       113 x 1, 114 x 2
KC-16
           Spur Gear Mount
                                                       5 x 2, 45 x 7
KC-17
           Collar Set
                                                       25 x 10
           3ø Stopper
KC-18
                                                       107 108 109 x 2
KC-19
           Rear Spring Set
                                                       68 x 4
           E-Ring (E-4)
KC-20
                                                       8 x 3
KC-21
           Joint Collar (Impacta Baja)
                         (Mint Las Vegas)
                                                       8 x 1, 105 x 2
KC-22
KC-23
           Screw Set
                                                       99 x 1
KC-24
           Body (Impacta Baja)
                                                       104 \times 1
           Body (Mint Las Vegas)
KC-25
                                                       128 x 1
KC-26
           Decal
                                                       33 36 39 40 x 1
KC-27
           Brake Caliper Set
                                                       94 x 2
KC-28
           Front Tire
                                                       95 x 2
KC-29
           Rear Tire
                                                       35 37 38 x 1
           Stainless Disk Set
KC-30
                             OPTIONAL PARTS
                                                       Use with SD-53 (10.6:1)
           Main Gear (53T)
LD-27
                                                       Use with SD-55 (8.7:1)
           Main Gear (51T)
LD-25
                                                       Use with LD-27
           Clutch Bell (12Z)
SD-53
                                                       Use with LD-25
           Clutch Bell (14Z)
SD-55
                                                       Exchange with Key No.114
           Spur Gear Bearing
LD-71
           Rear Differential Gear
LD-79
CB-161
           Quick Tank Cap
CB-110
           Air Cleaner
           Hard Oil for Differential
1881
1880
           Damper 0il
                                                       Mount & Flywheel for OPS & Pico
           Engine Parts for OPS & Pico
LD-82
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IN DIRECTIONS OF \_\_\_\_\_ MARKED

PIVOTING ON THE CLUTCH FINS