

# INTEGRA 4WD

# VANNING\*PRESTO

## RADIO CONTROLLED OFFROAD RACING BUGGY KIT

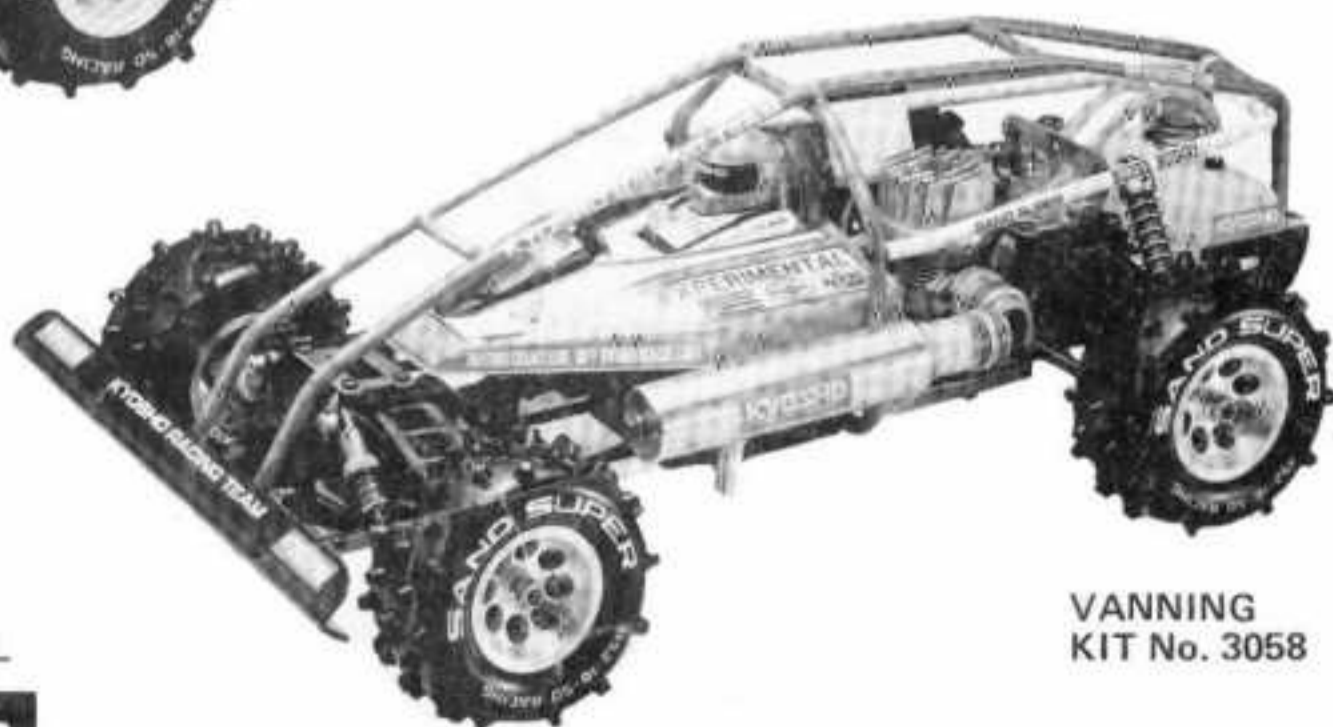
- Sophisticated double-wishbone independent suspension on all four wheels with four-wheel drive for maximum traction
- Race-proven square-section 17S aluminum alloy ladder frame is strong and light. Accurate alignment of all components is assured.
- Coil springs with special oversize oil-filled shock absorbers for top handling on even the roughest tracks.
- Front suspension has compound caster upper wishbone angle plus kingpin angle for top directional stability after jumps.
- Mid-ship engine position balances buggy perfectly, minimizes inertia for quick maneuverability, and optimizes weight transfer for acceleration.
- Special lightweight three-piece wheels, custom fuel tank, heavy-duty servo saver and special high-grip knobby tires are included.

1:8 SCALE

.21 SIZE  
BUGGY



PRESTO  
KIT No. 3059



VANNING  
KIT No. 3058

INSTRUCTION MANUAL

**KYOSHO**  
THE FINEST RADIO CONTROL MODELS

ENGINE .21 CLASS RADIO 2 CHANNEL MUFFLER & MANIFOLD NOT INCLUDED

THINGS YOU WILL NEED  
BESIDES THIS KIT

# VANNING★PRESTO

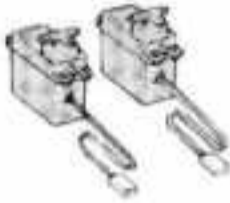
## 2 CHANNEL RADIO SYSTEM

A two channel, 2 servo radio control system is required for running this kit. The various components are pictured below.

### TRANSMITTER



### SERVOS



### BATTERY HOLDER



### SWITCH



### RECEIVER



This type of radio system can also be used for other models requiring only two channels of control.

### CARS



### AIRPLANES



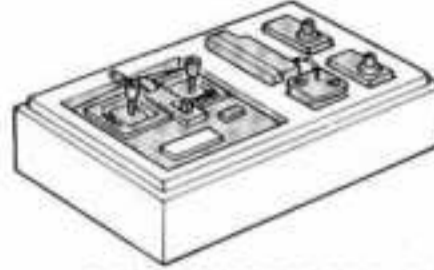
### BOATS

## CHECK YOUR RADIO SYSTEM

Follow the instructions that came with your radio system to check out its operation. 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.)



BATTERIES FOR RADIO

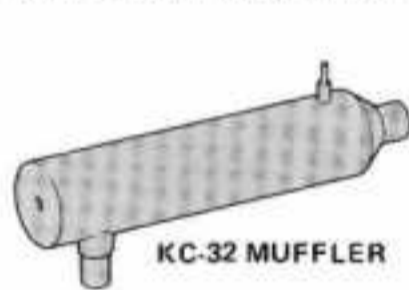


2 CHANNEL RADIO SYSTEM

## ENGINE AND EXHAUST SYSTEM

The OS Max 21VF-B, 21VF-C, 21FSR-C, 21FSR-B, Enya 21CX BUGGY and Irvine 20 or 25 CAR engines will mount with little or no modifications. Others will require either additional parts not listed here 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.

You will need to purchase a muffler and manifold. The Kyosho KC-32 Muffler is recommended and will work those engines listed above. You must choose the proper manifold based upon the engine you are using. For the OS 21VF-B and VF-C use the KC-31 Manifold. For OS and Enya side exhaust models, use the KC-44 Manifold and for Irvine engines use the KC-44A Manifold. See page 15 for more details on these items.



KC-32 MUFFLER



KC-31 RE MANIFOLD



KC-44  
KC-44A  
SE MANIFOLD

## REQUIRED TOOLS

These ARE included with the kit:

1.5mm allen wrench

2mm allen wrench

3mm allen wrench

These ARE NOT included with the kit:

Phillips screwdriver

5/16" nut driver

Scissors

Needle nose pliers

Awl

Sharp hobby knife

Standard pliers

Four-way Wrench

Cyanoacrylate glue (such as Jet, CA, Hot Stuff or Crazy Glue)

Polyurethane Paint



Masking tape

Paint Brush

## ITEMS YOU WILL NEED FOR RUNNING



Glow Fuel



Fuel Bulb



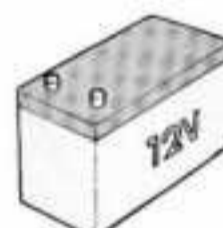
1.5 Volt  
Glow Plug Battery



Glow Plug  
Connector



Electric Starter  
w/hard foam  
"Do-Nut"



12 Volt Field  
Battery

## IMPORTANT! BEFORE YOU BEGIN

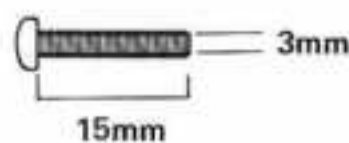
A WORD OF WARNING is necessary, especially if this happens to be your first gas-powered vehicle. Gas-powered cars are subjected to stress and strain due to high engine RPM, rough terrain and the racing/high performance usage that they receive. As a result, they need continual preventative maintenance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

This is a sophisticated model with a large number of moving parts. 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 bother you and the thrill of high performance driving is for you, then don't hesitate another minute! Read through this entire manual thoroughly to familiarize yourself with the parts and methods of construction used before actually starting to build.

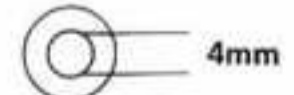
## METRIC NUTS AND BOLTS

All nuts and bolts used throughout this kit are metric size. Therefore, some of the notations may not be familiar to you. An M3 nut is a 3 millimeter (3mm) nut. An M3 x 15 screw is 15 mm long and 3mm in diameter. Some round parts may be labeled as a "4 $\phi$  Washer" (this would be a washer with a 4mm inside diameter) or a "3 $\phi$  Bushing" (a bushing with a 3mm inside diameter). At various points throughout the manual these parts are labeled and pictured in their actual size on the left hand side of the page. For your reference, 1 millimeter equals approximately .039 inches.

M3 x 15 SCREW



4 $\phi$  WASHER



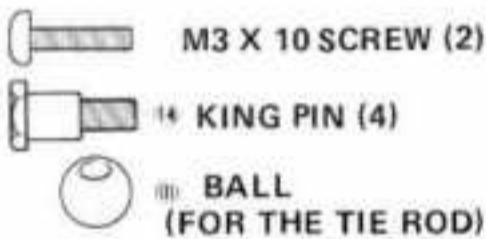
In addition to the damper oil and differential oil (red liquids) you will also find a small tube labeled "screw cement". This bluish-green locking compound should be used on all NUTS AND BOLTS in the car including those parts which are ALREADY ASSEMBLED to ensure reliability. If you do not use the screw

cement, all the nuts and bolts of the car WILL eventually fall out. 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.

### 1 SMALL PARTS USED



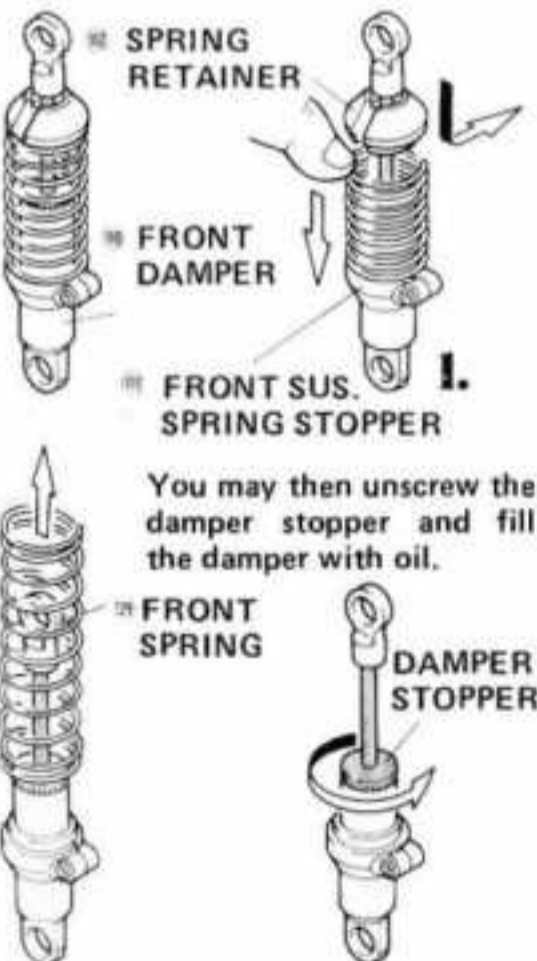
### 2 SMALL PARTS USED



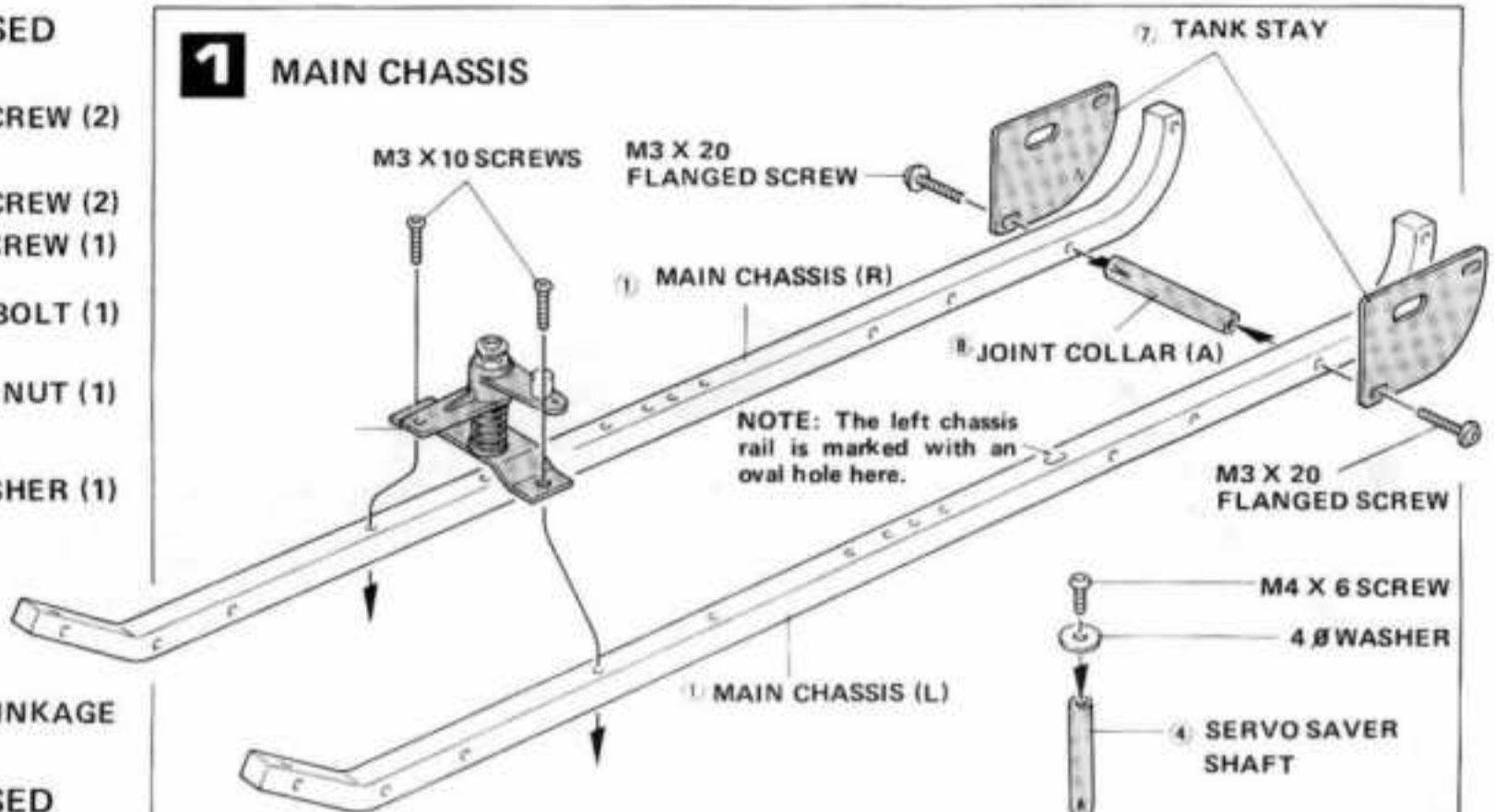
### 3 SMALL PARTS USED



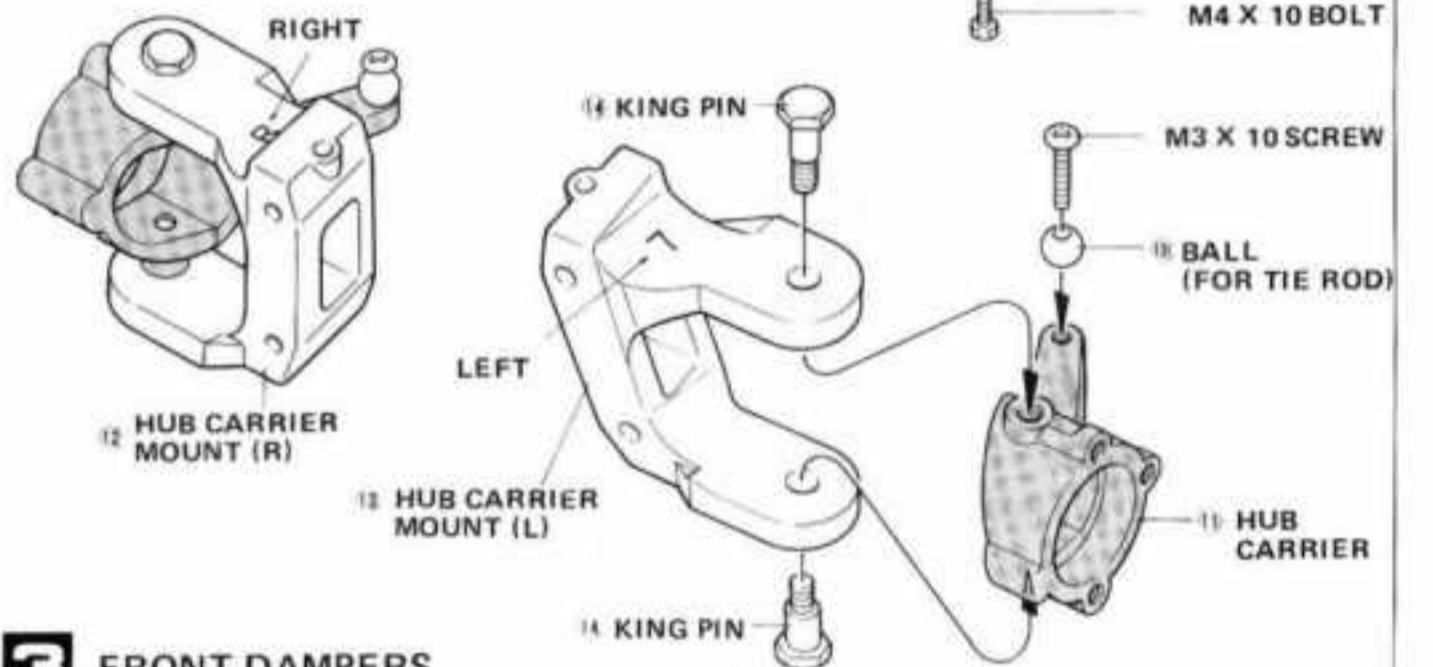
While the front dampers (shocks) are already assembled, you must fill them with oil. Disassemble the spring dampers by first removing the spring retainers, then the springs.



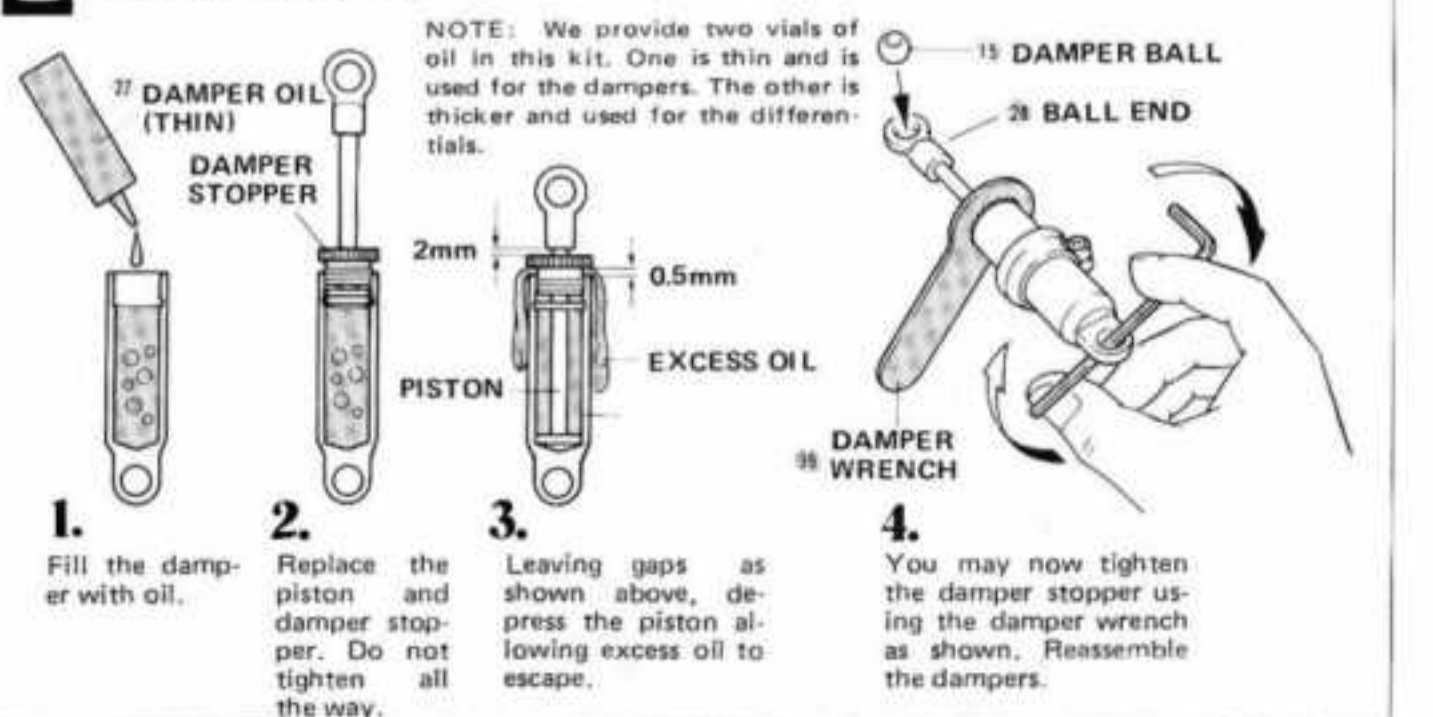
### 1 MAIN CHASSIS



### 2 HUB CARRIERS



### 3 FRONT DAMPERS

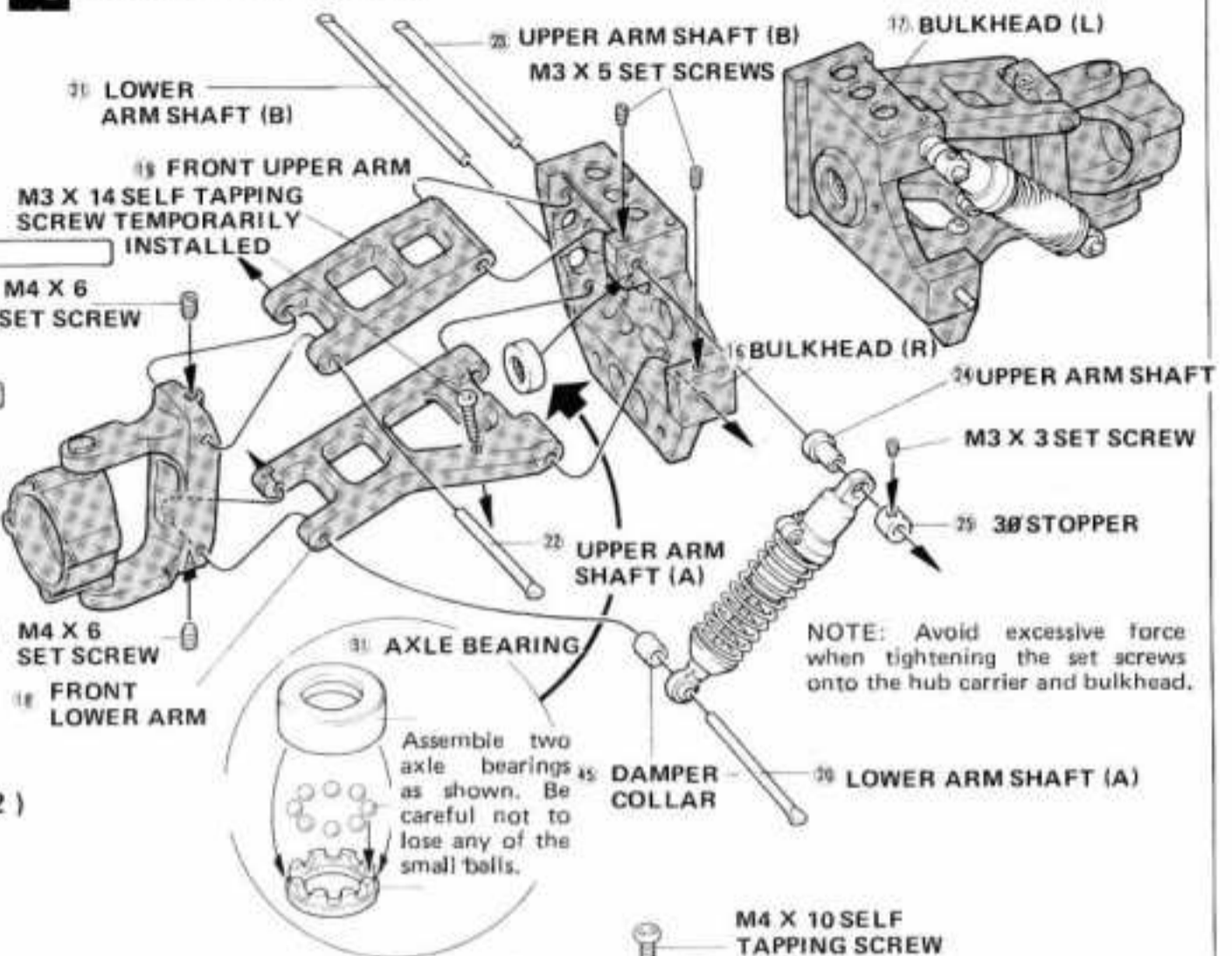


#### 4 SMALL PARTS USED

- M3 X 14 SELF TAPPING SCREW (2)
- M3 X 3 SET SCREW (2)
- M3 X 5 SET SCREW (4)
- M4 X 6 SET SCREW (4)

- LOWER ARM SHAFT A (2)
- LOWER ARM SHAFT B (2)
- UPPER ARM SHAFT A (2)
- UPPER ARM SHAFT B (2)
- DAMPER BUSHING (2)
- 3Ø STOPPER (2)
- DAMPER COLLAR (2)
- RING (2)
- 2mm BALLS (16)
- RETAINER (2)
- AXLE BEARING

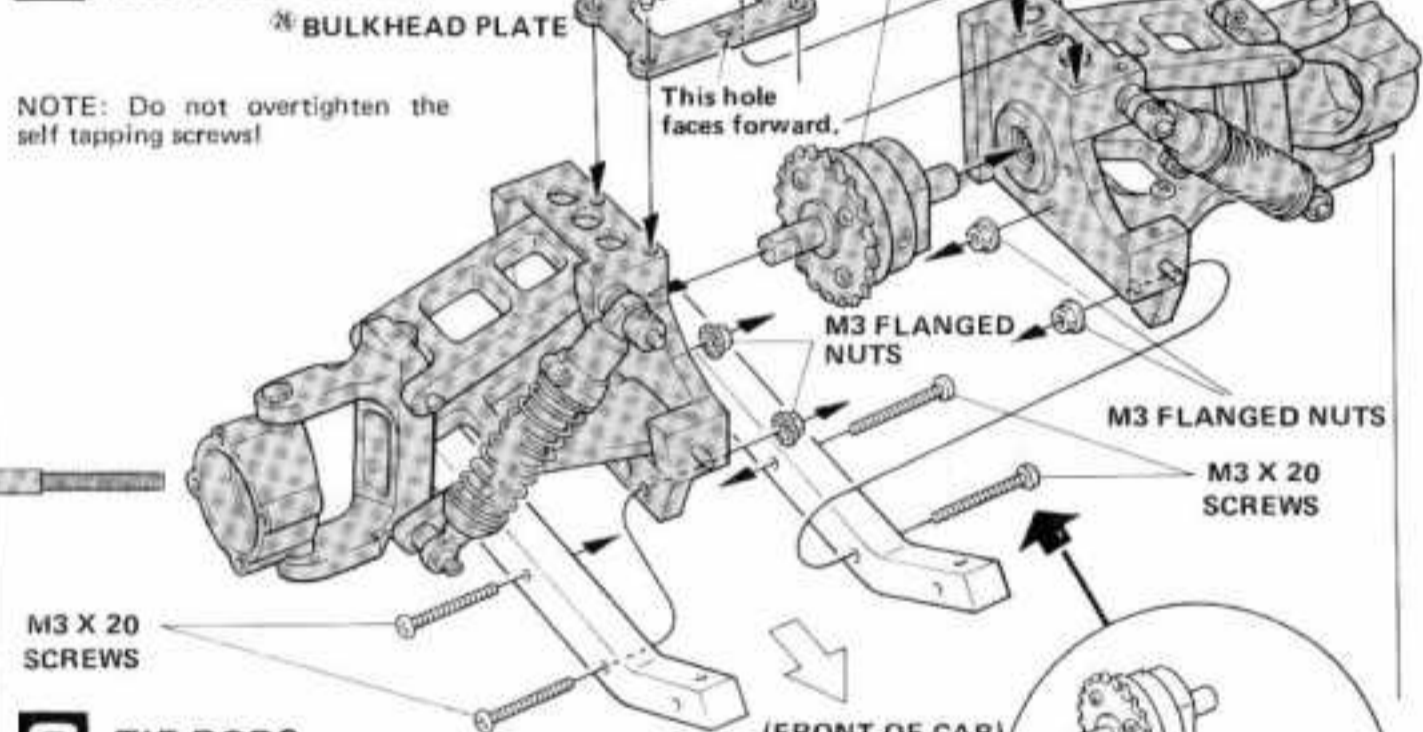
#### 4 FRONT SUSPENSION



#### 5 SMALL PARTS USED

- M3 X 20 SCREW (4)
- M4 X 10 SELF TAPPING SCREW (4)
- M3 FLANGED NUT (4)

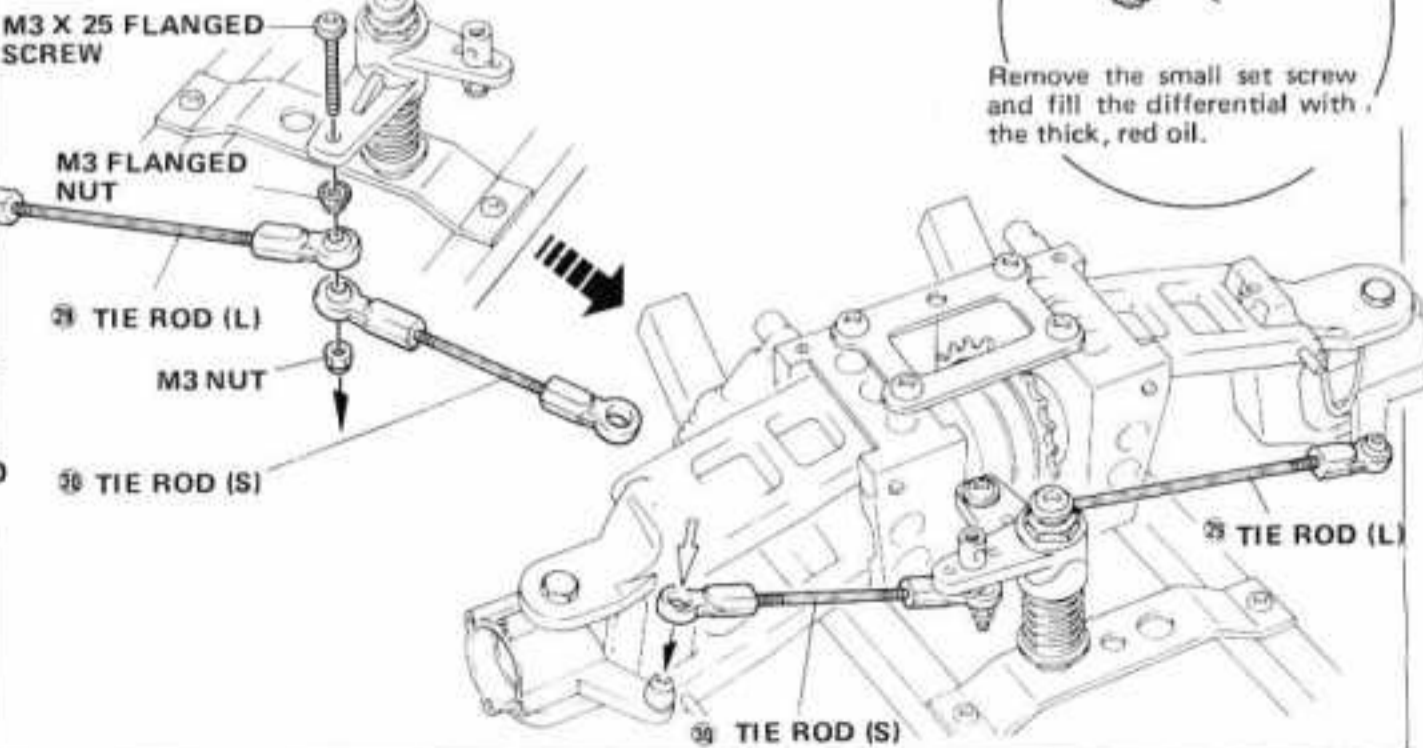
#### 5 FRONT SUSPENSION (INSTALLATION)



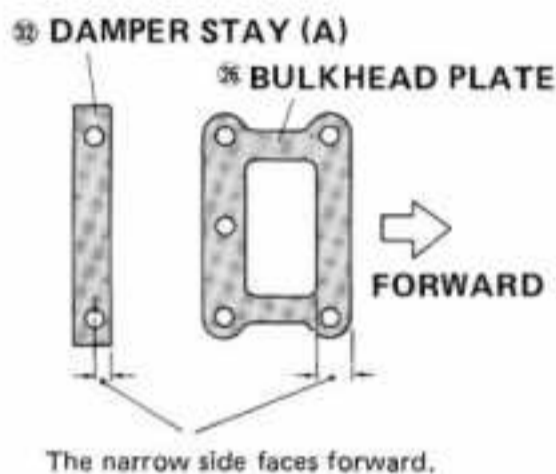
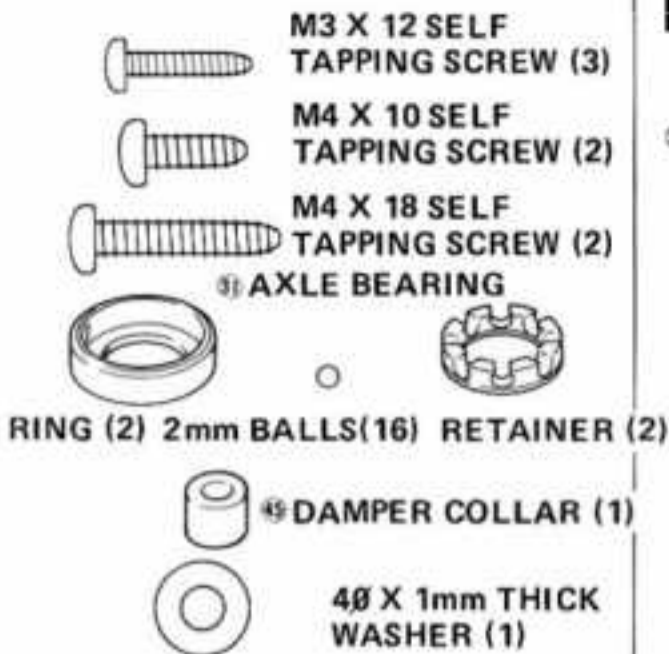
#### 6 SMALL PARTS USED

- M3 X 25 FLANGED SCREW (1)
- M3 NUT (1)
- M3 FLANGED NUT (1)
- TIE ROD L (1)
- TIE ROD S (1)
- TIE ROD END (4)
- TIE ROD BALL (2)

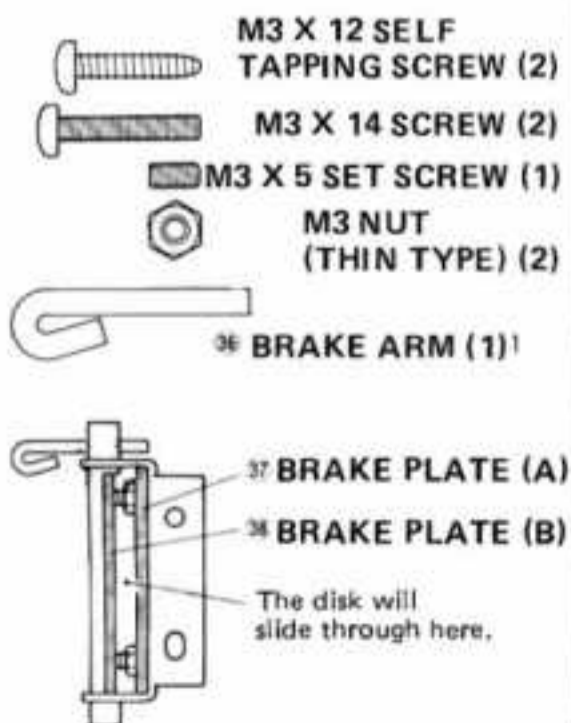
#### 6 TIE RODS



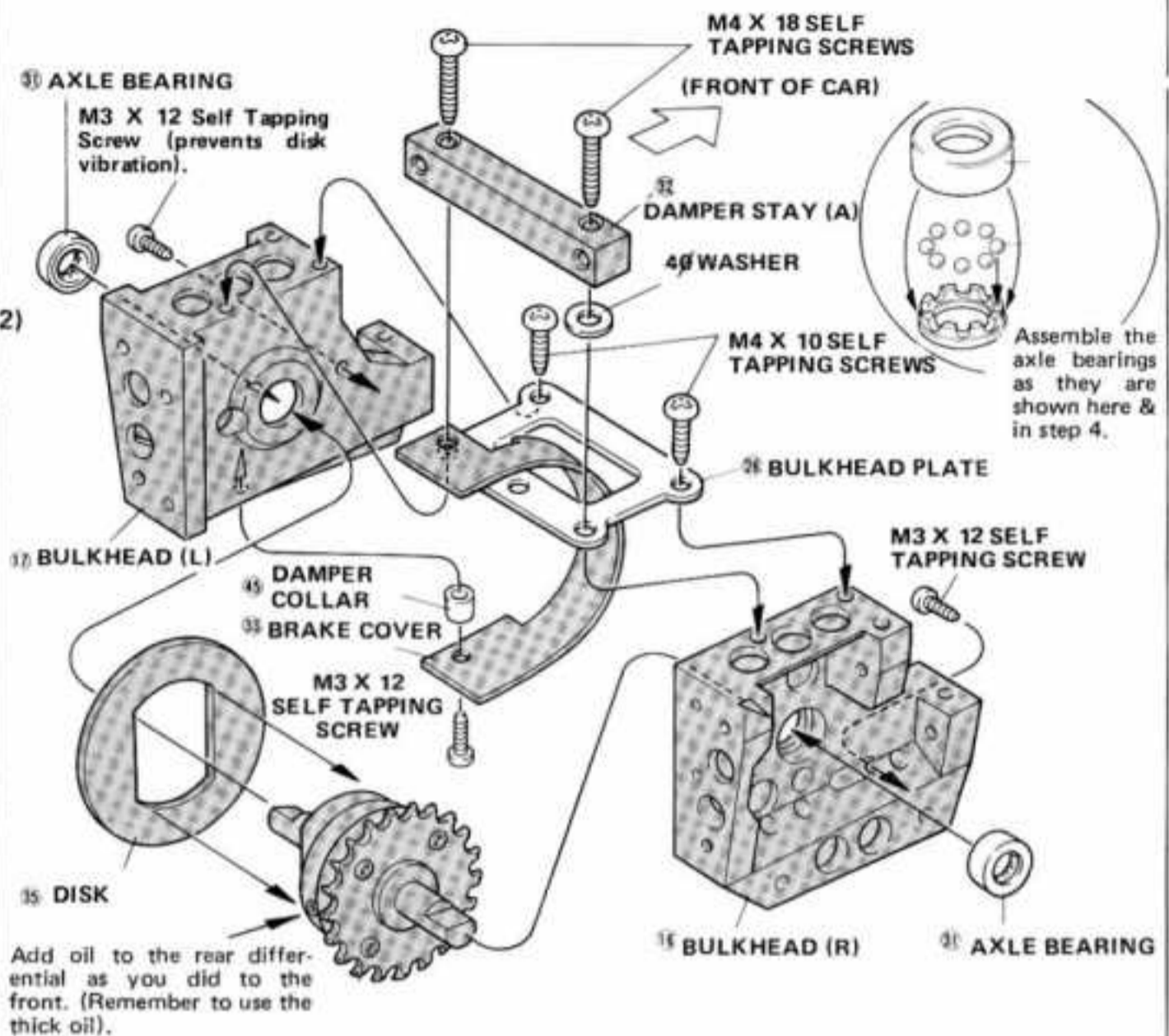
## 7 SMALL PARTS USED



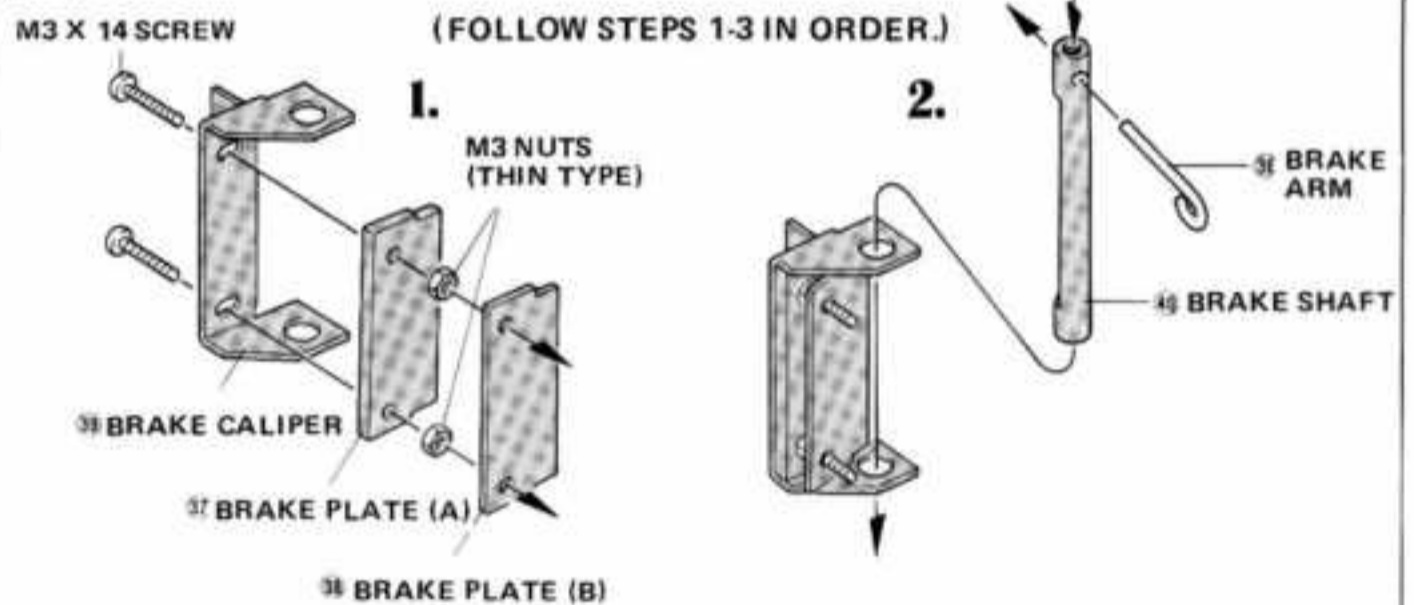
## 8 SMALL PARTS USED



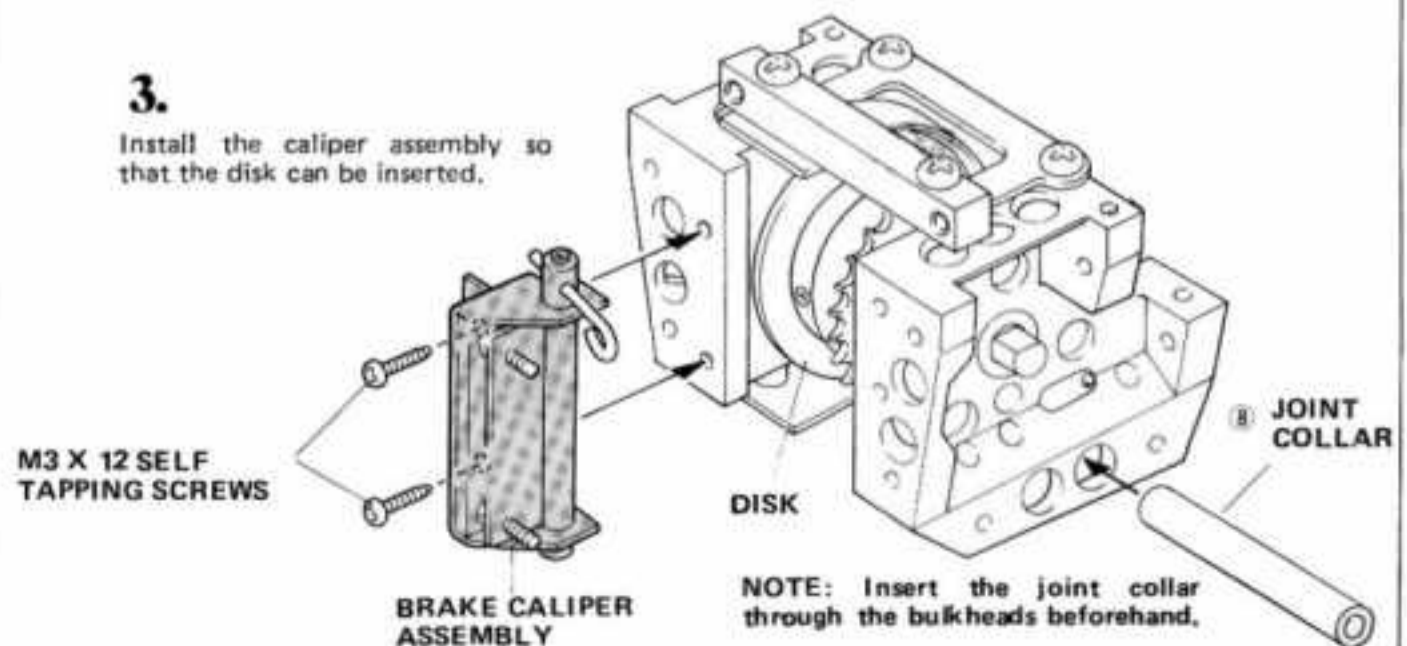
## 7 REAR AXLE






## 8 BRAKE CALIPER




3. Install the caliper assembly so that the disk can be inserted.



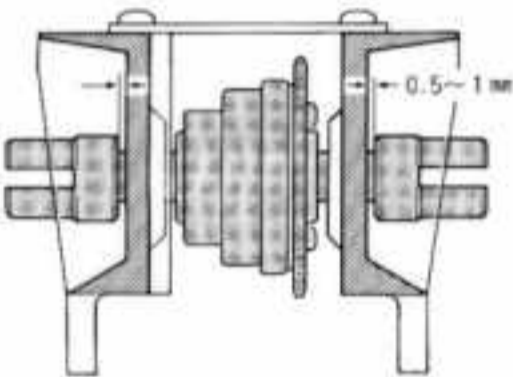
### 9 SMALL PARTS USED

-  M3 X 20 SCREW (4)
-  M3 FLANGED NUT (4)
-  3ø WASHER (1)

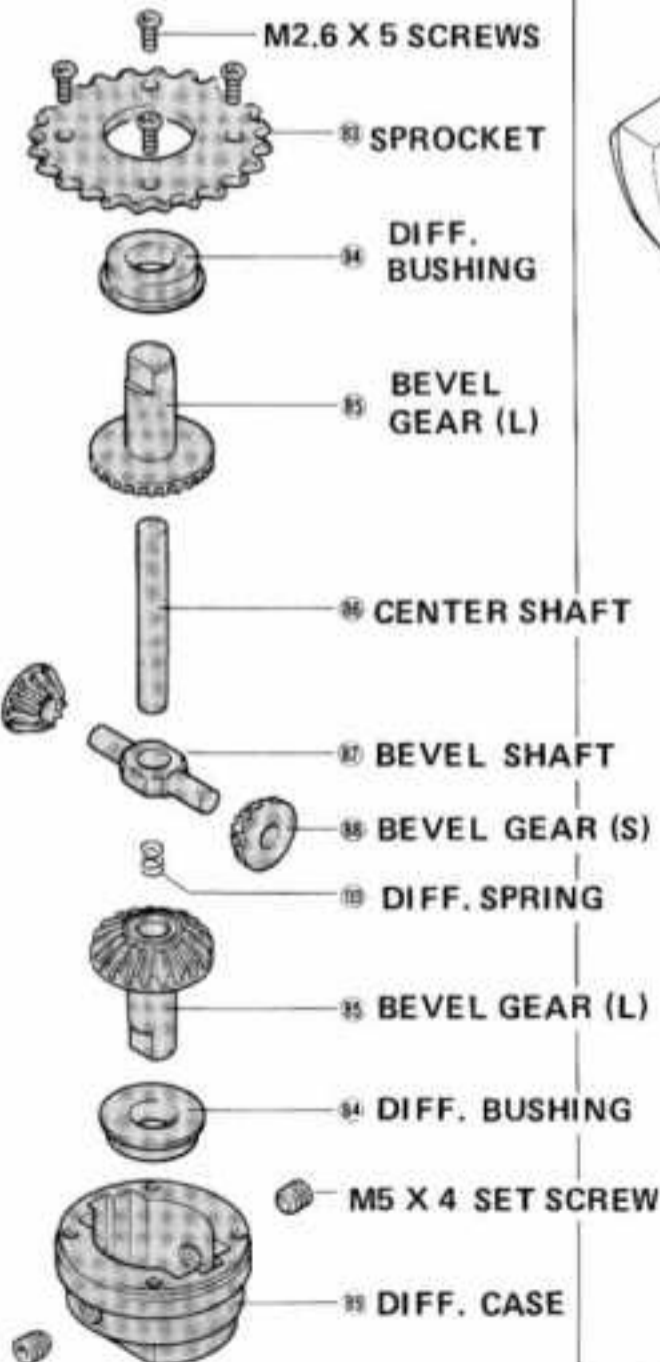
### 10 SMALL PARTS USED

-  M5 X 5 SET SCREW (4)

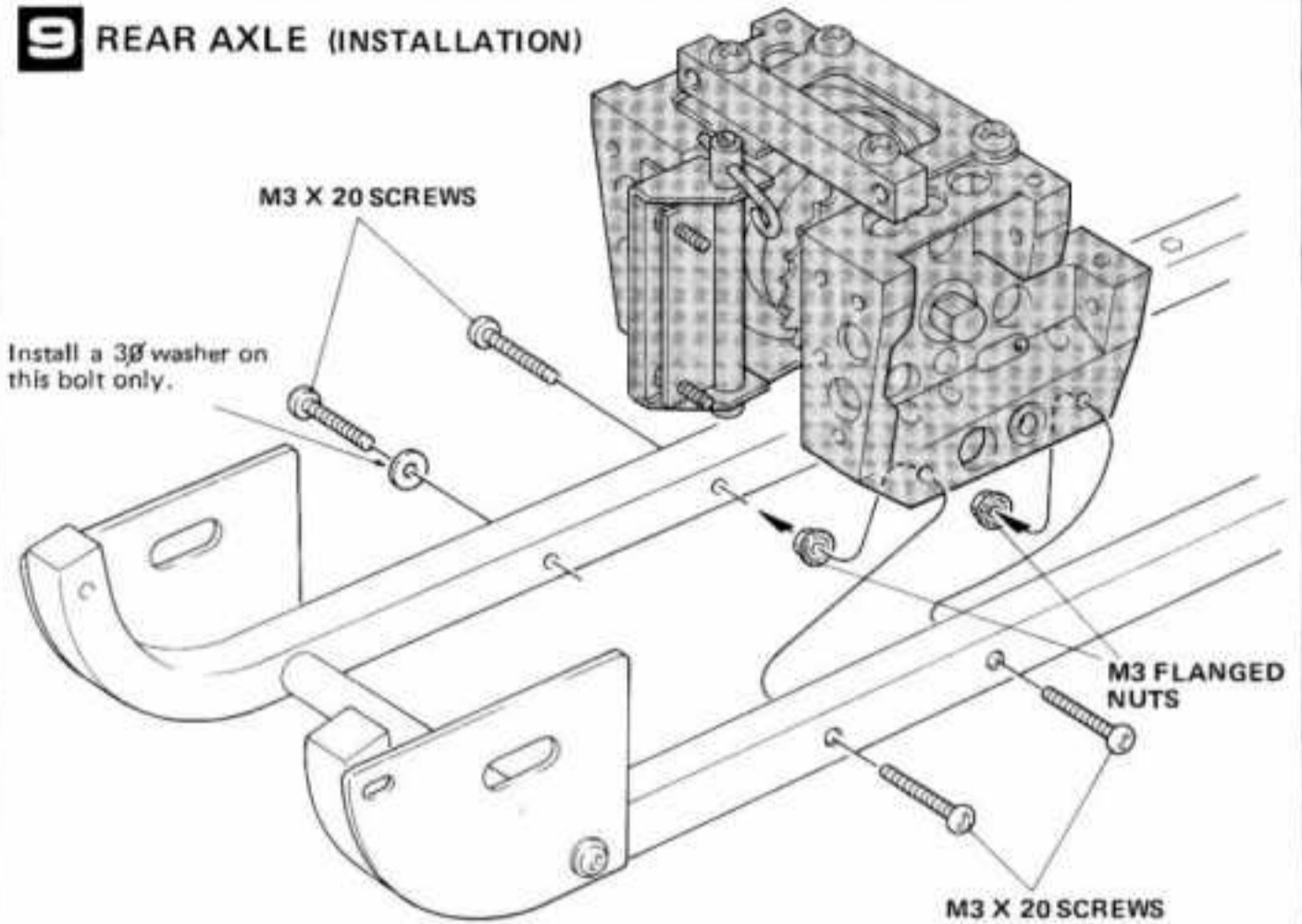
Install the joints with about .5 - 1mm play on each side as shown.



The differentials are factory assembled. This exploded view has been provided for your convenience.

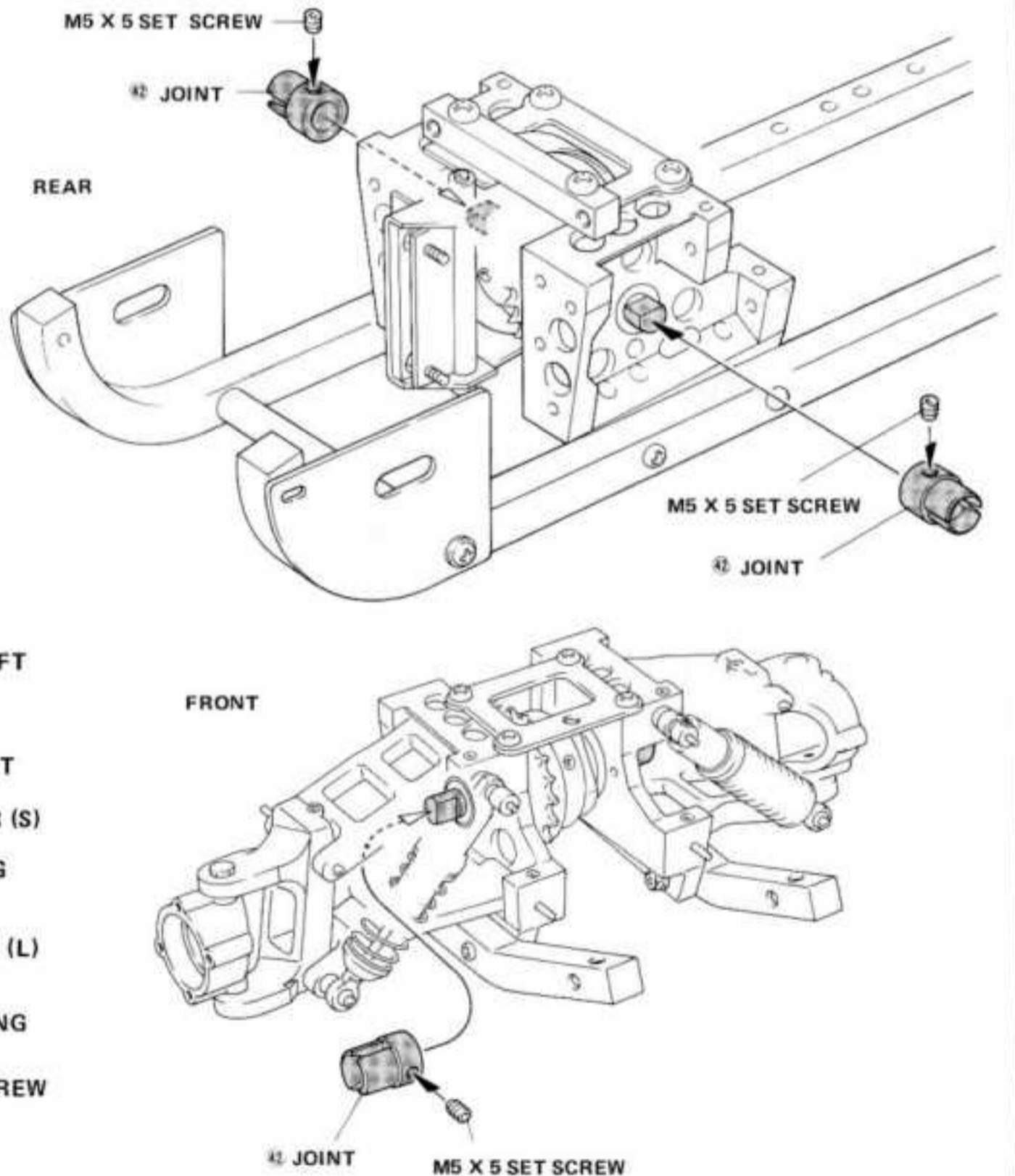


### 9 REAR AXLE (INSTALLATION)

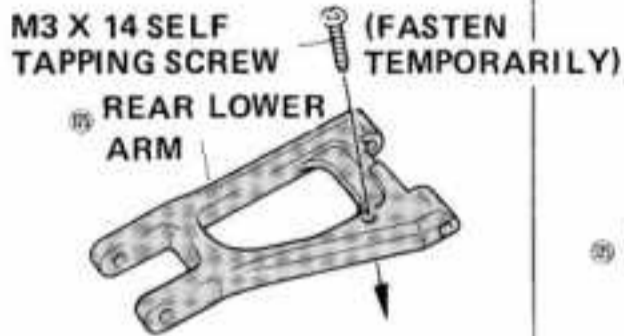


Install the M3 flanged nuts on the other side, as well.

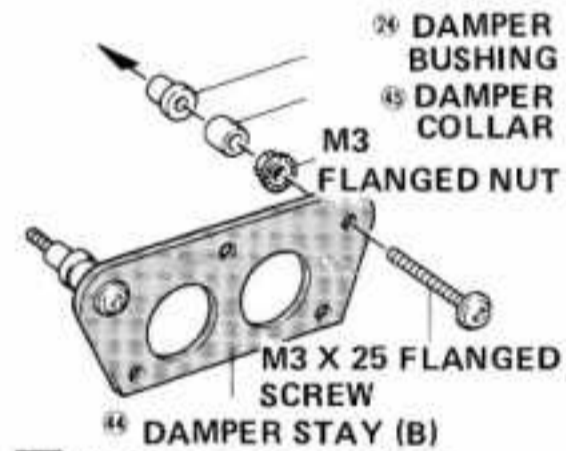
### 10 AXLE JOINT



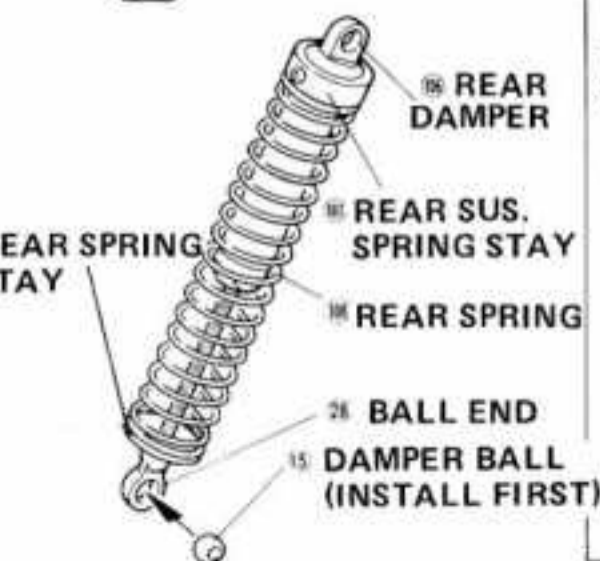
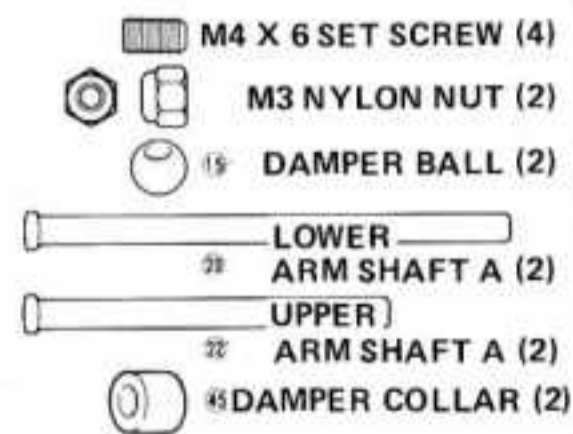
### 11 SMALL PARTS USED



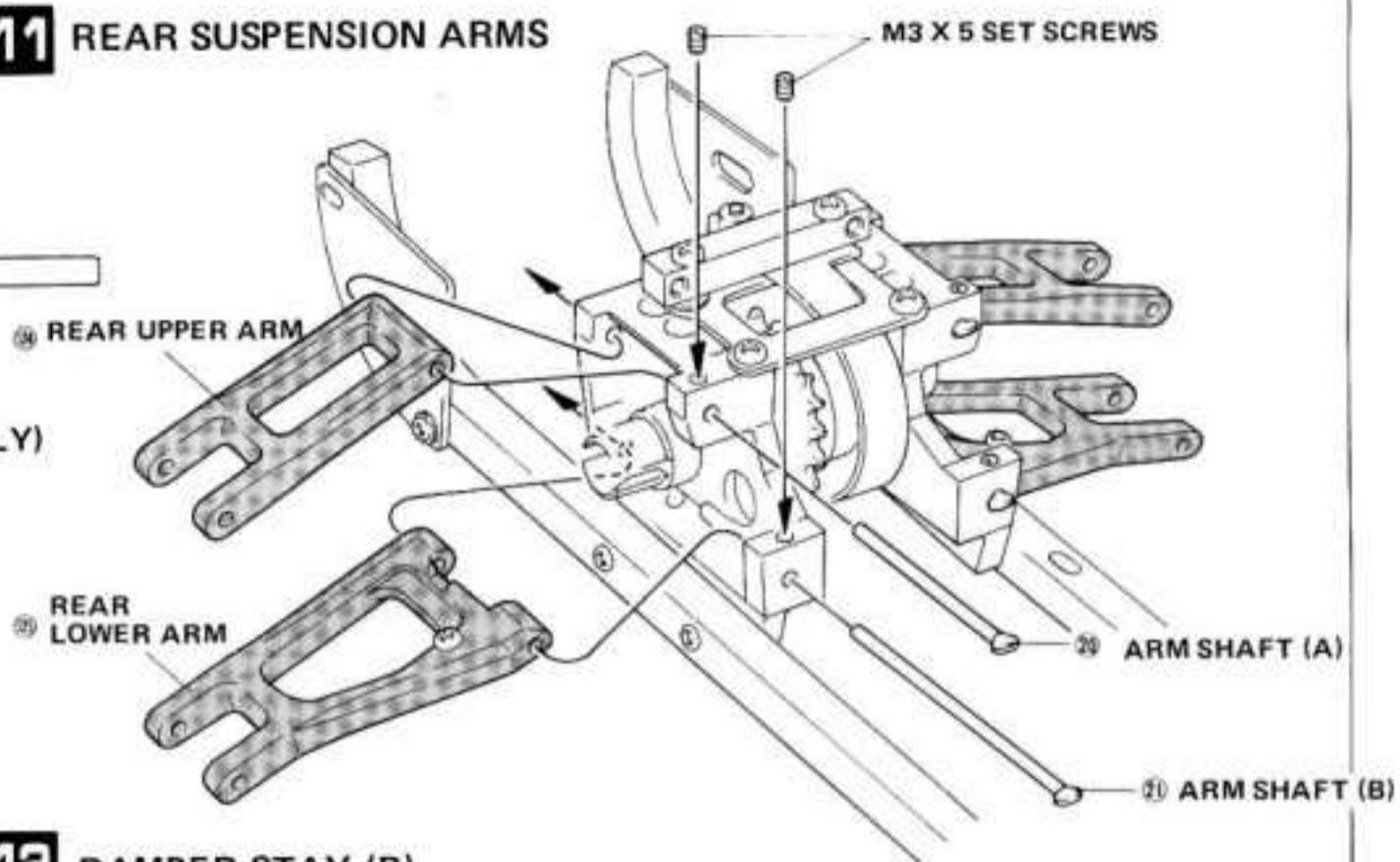
### 12 SMALL PARTS USED



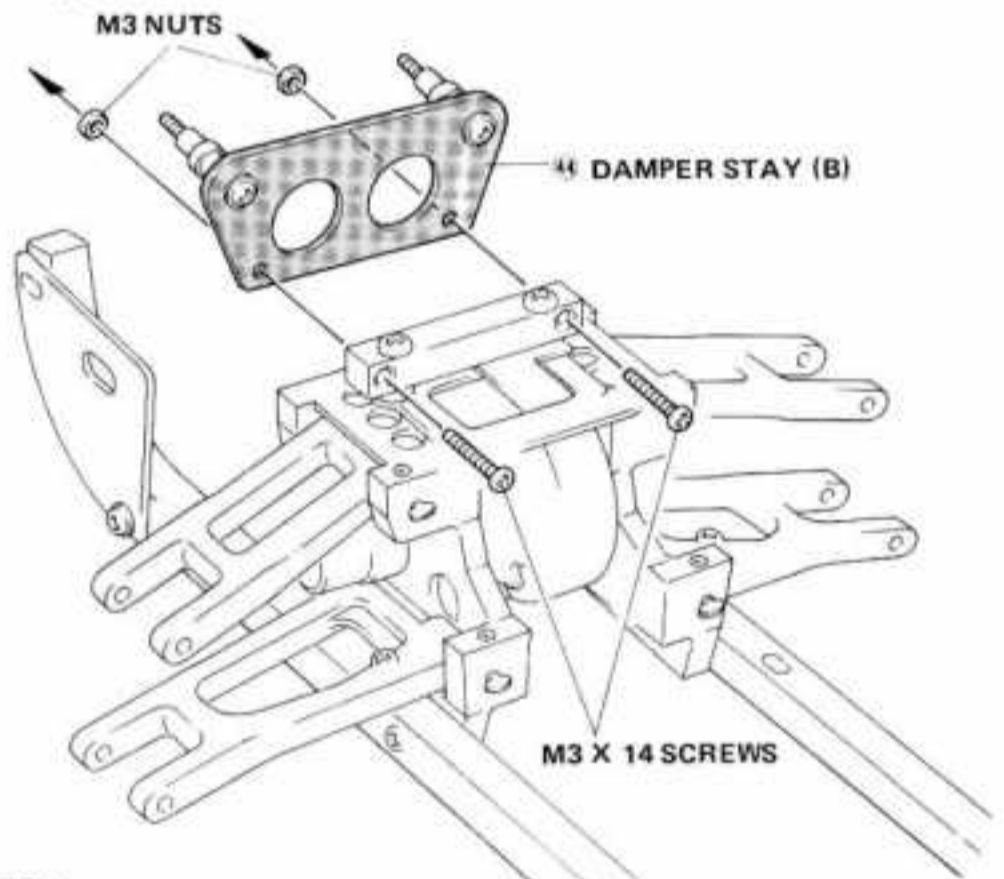
### 13 SMALL PARTS USED



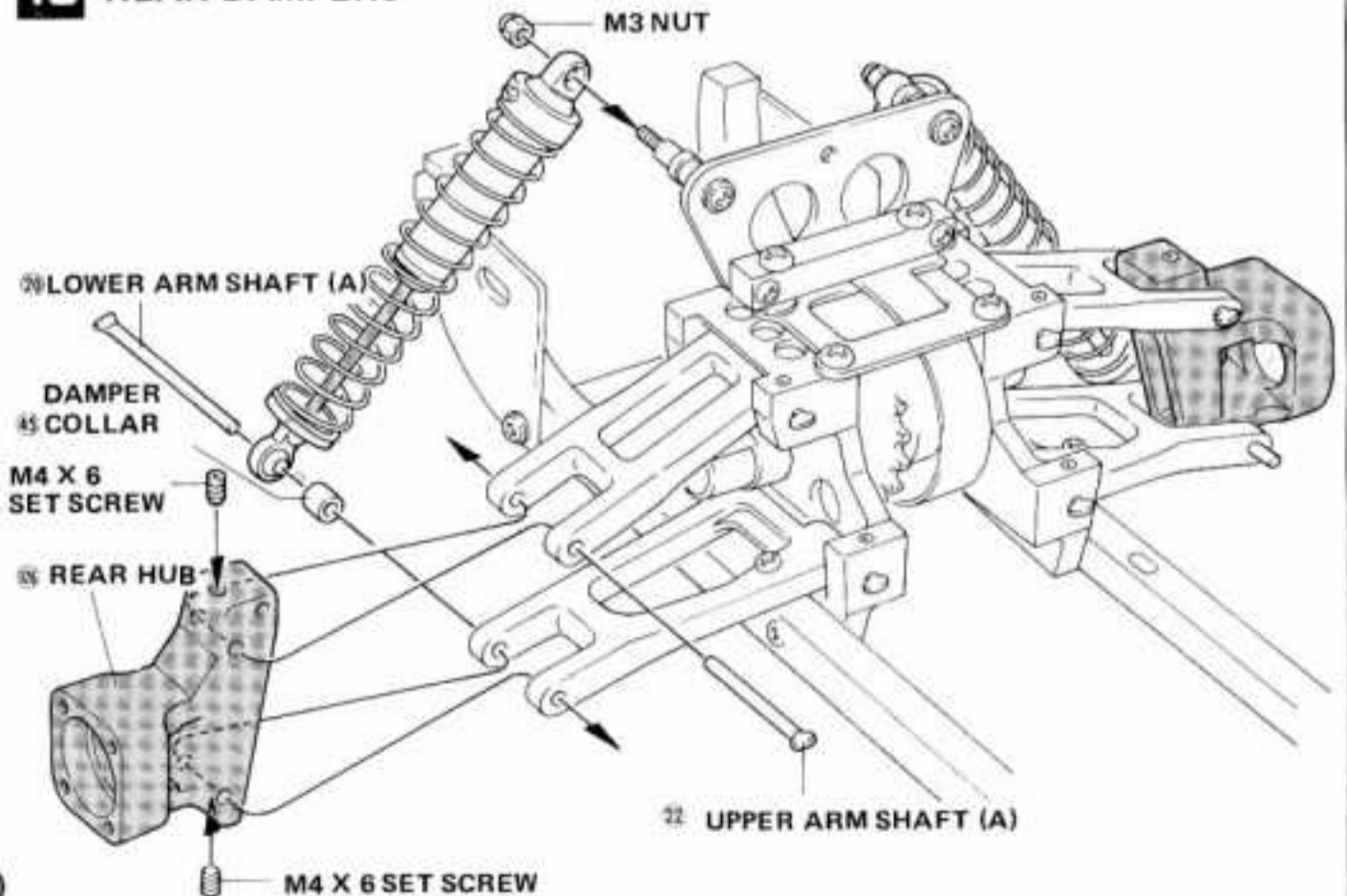
### 11 REAR SUSPENSION ARMS



### 12 DAMPER STAY (B)



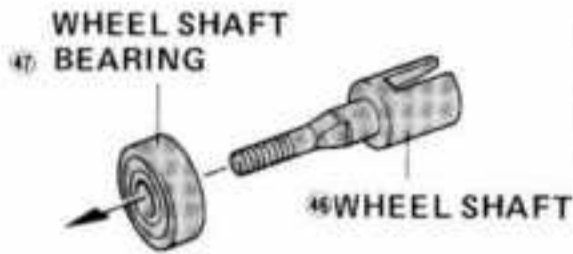
### 13 REAR DAMPERS



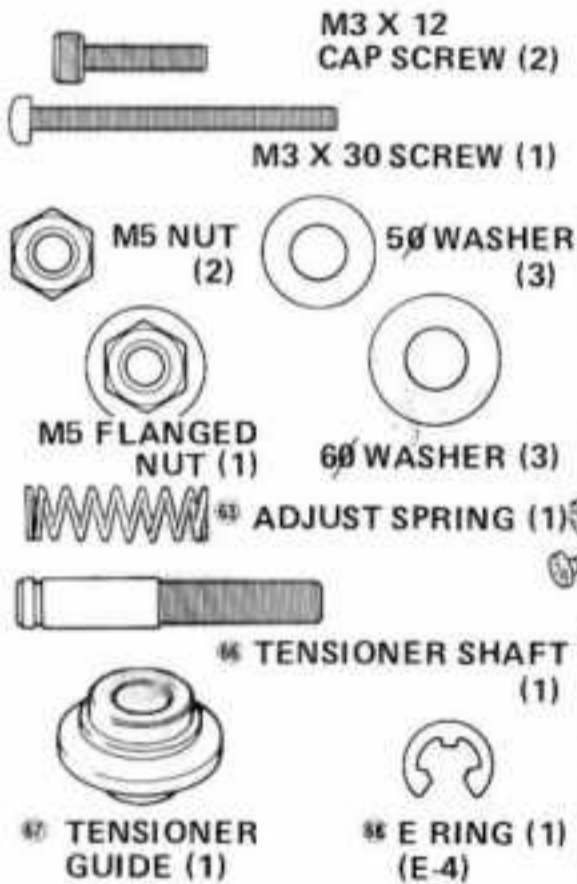
## 14 SMALL PARTS USED



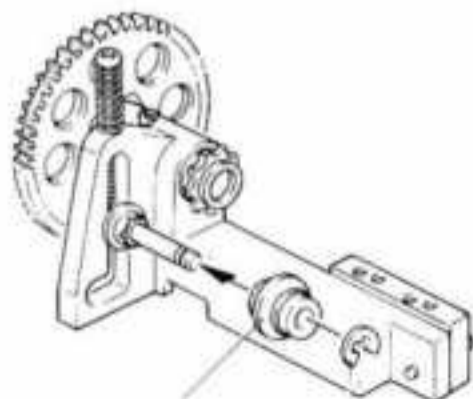
Place the four wheel shaft bearings onto the four wheel shafts as shown.



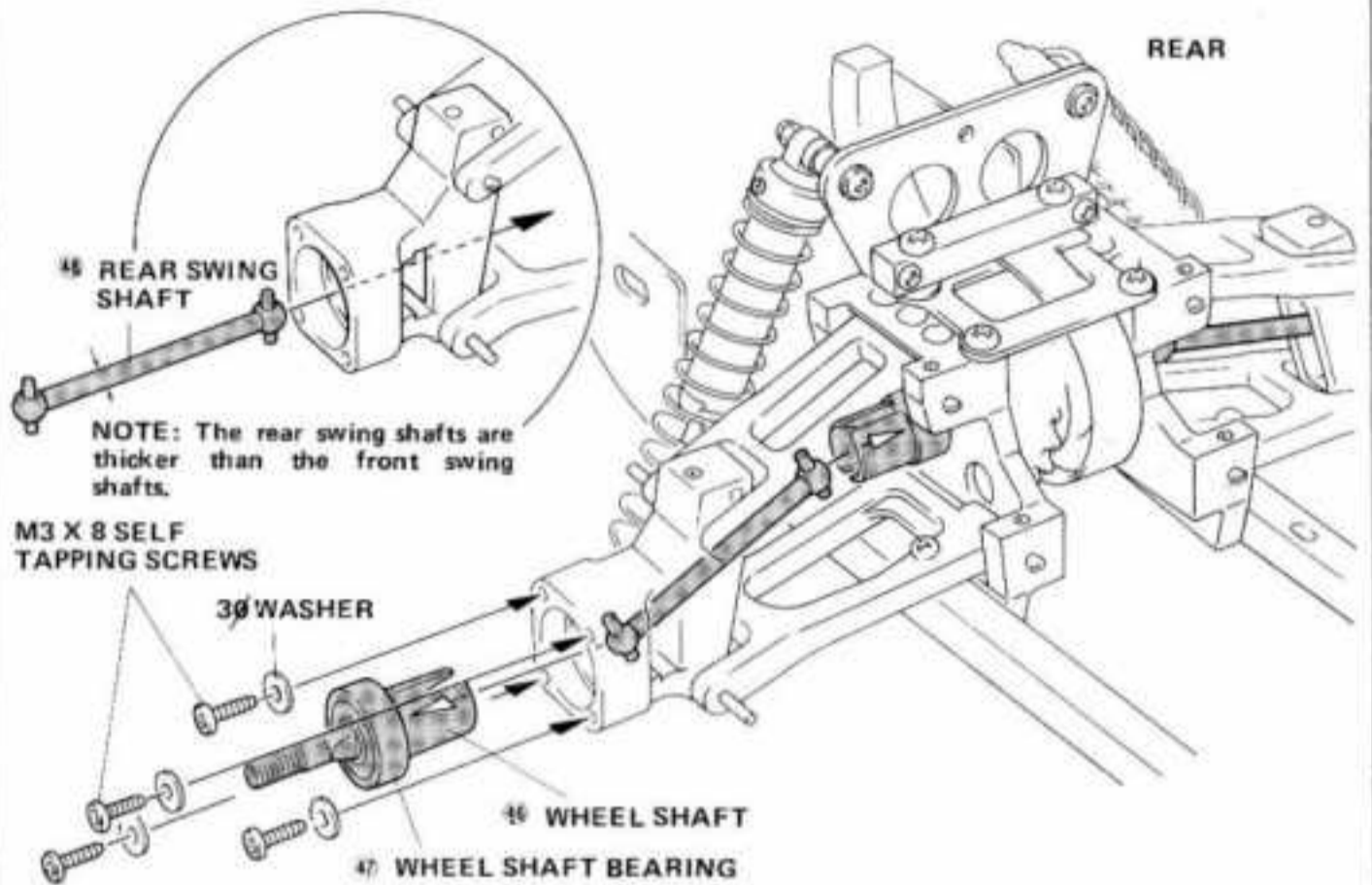
## 15 SMALL PARTS USED



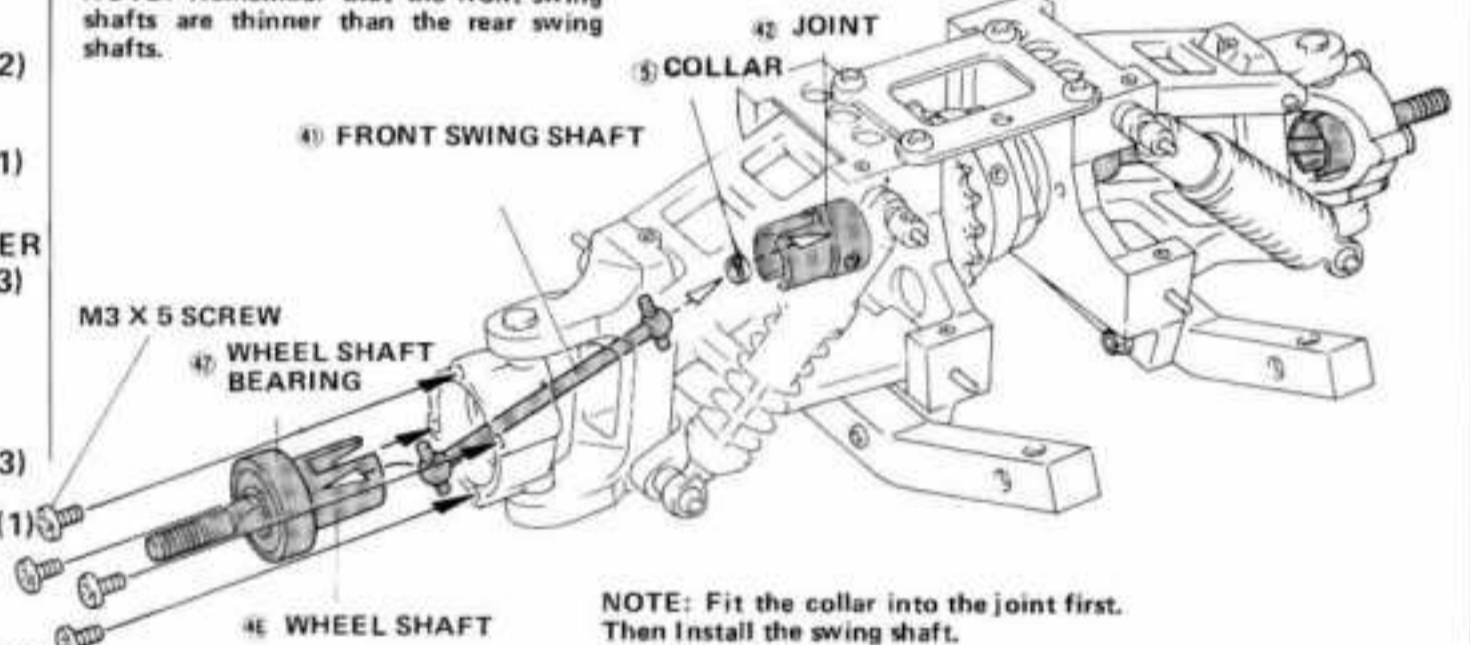
After completing the assembly shown at right, install the tensioner guide and E-Ring onto the tensioner shaft.



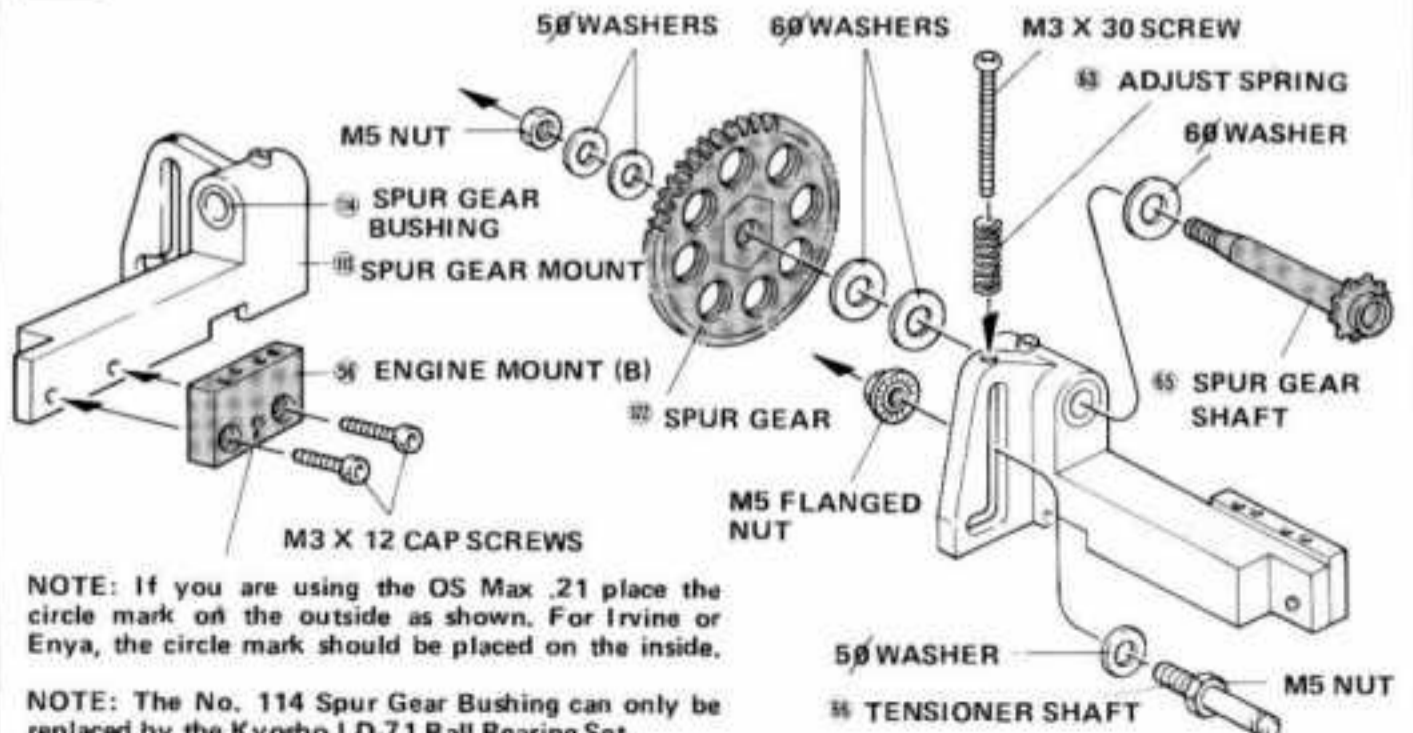
## 14 SWING SHAFTS



NOTE: Remember that the front swing shafts are thinner than the rear swing shafts.



## 15 SPUR GEAR MOUNT



### 16 SMALL PARTS USED



M3 X 16 CAP SCREW (2)

### 17 SMALL PARTS USED



M3 X 10 CAP SCREW (2)



CLUTCH PIN (S) FOR OS (2)

CLUTCH PIN (L) FOR IRVINE (2)

Drive the clutch pins into the flywheel as shown below.

NOTE: Use short pins for OS Max and long pins for Irvine or Enya.

49, 50

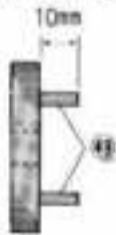


50

FLYWHEEL

SHORT PINS FOR OS

LONG PINS FOR IRVINE

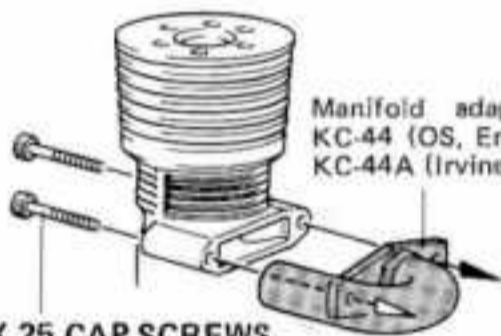


CLUTCH PIN (S)



CLUTCH PIN (L)

Once installed, the pins should project either 10mm or 12mm.



Manifold adapter KC-44 (OS, Enya) KC-44A (Irvine).

M3 X 25 CAP SCREWS

NOTE: If you plan to use a side exhaust engine such as the OS Max .21 FSR-B or Enya .21 Buggy engine you will need to purchase the No. KC-44 manifold adapter. (For Irvine use No. KC-44A). If you install the OS Max .21 VF-B rear exhaust engine, use the No. KC-31 adapter.

### 18 SMALL PARTS USED



59 CLUTCH BEARING (1)

ROLLER BEARINGS (6)



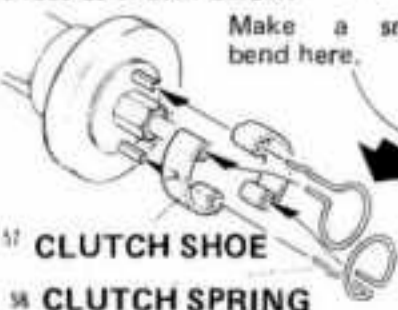
50 WASHER (1)

80 WASHER (1)

E Ring (E-3) (1)

Install the clutch spring and shoes as shown below.

Make a small bend here.

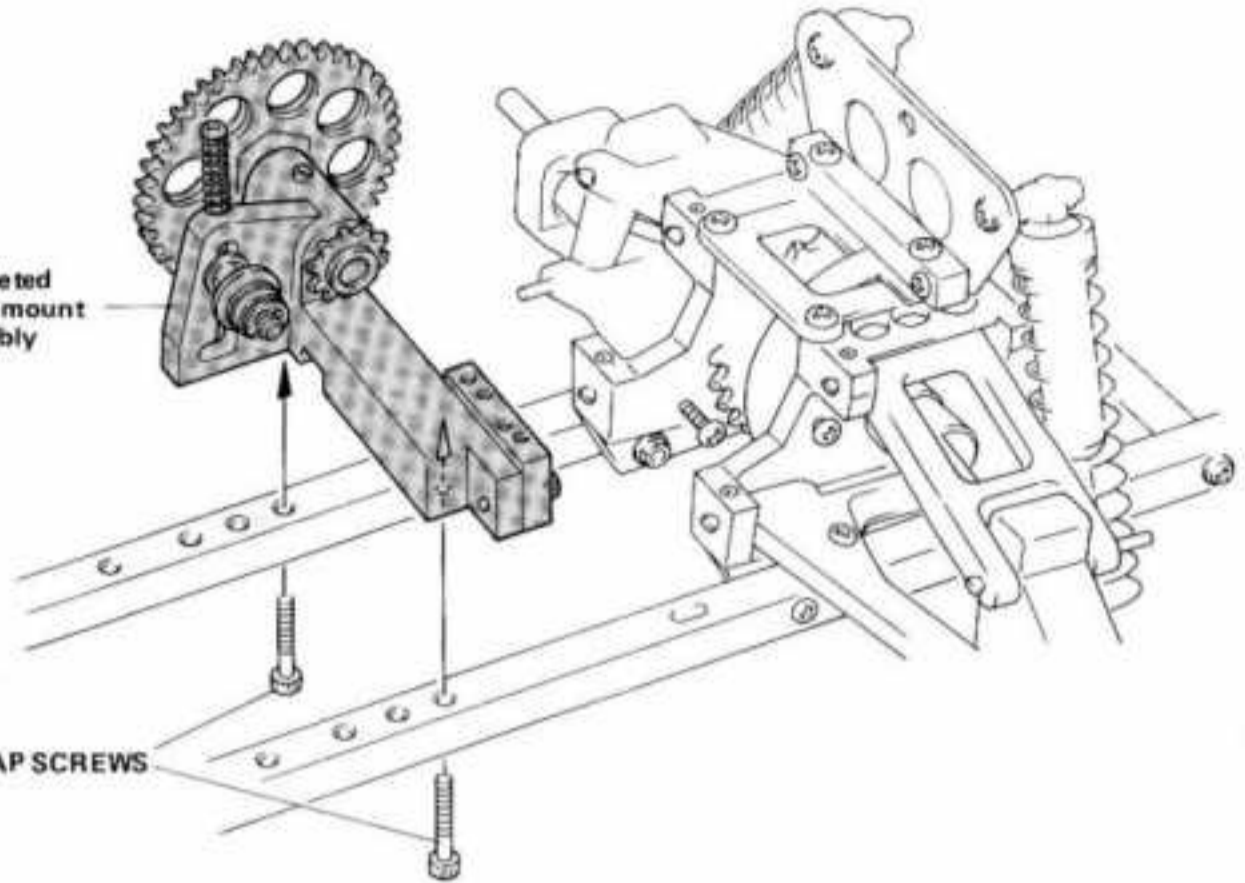


57 CLUTCH SHOE

58 CLUTCH SPRING

### 16 SPUR GEAR MOUNT (INSTALLATION)

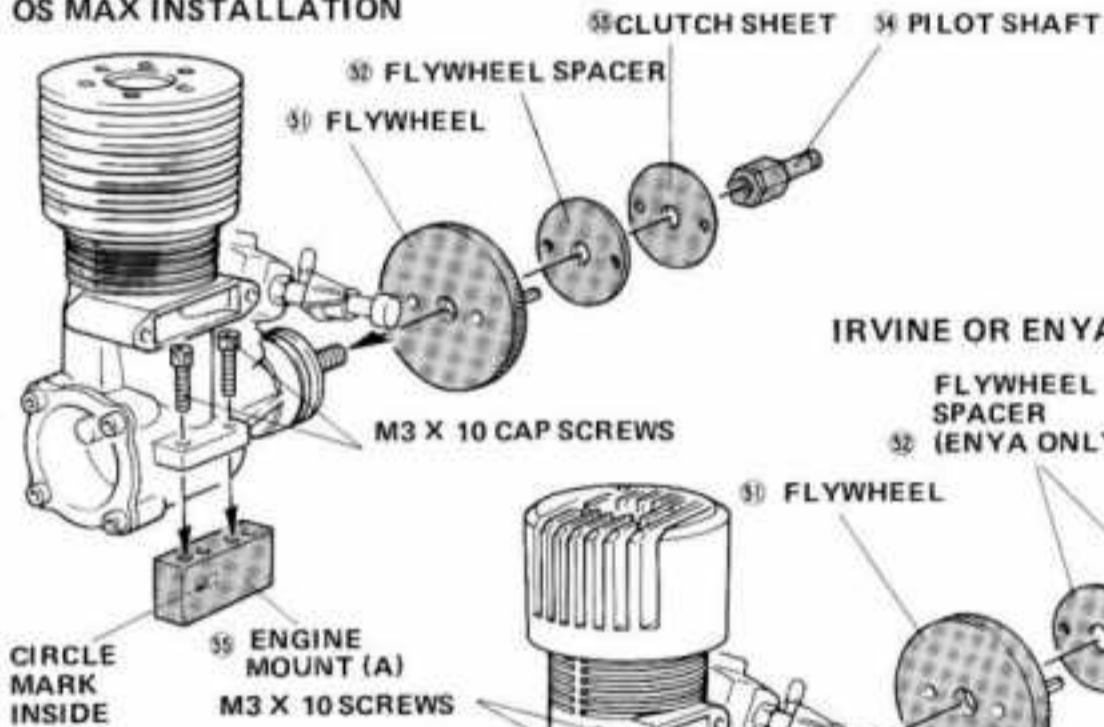
Completed spur gear mount assembly



M3 X 16 CAP SCREWS

### 17 FLYWHEEL

OS MAX INSTALLATION

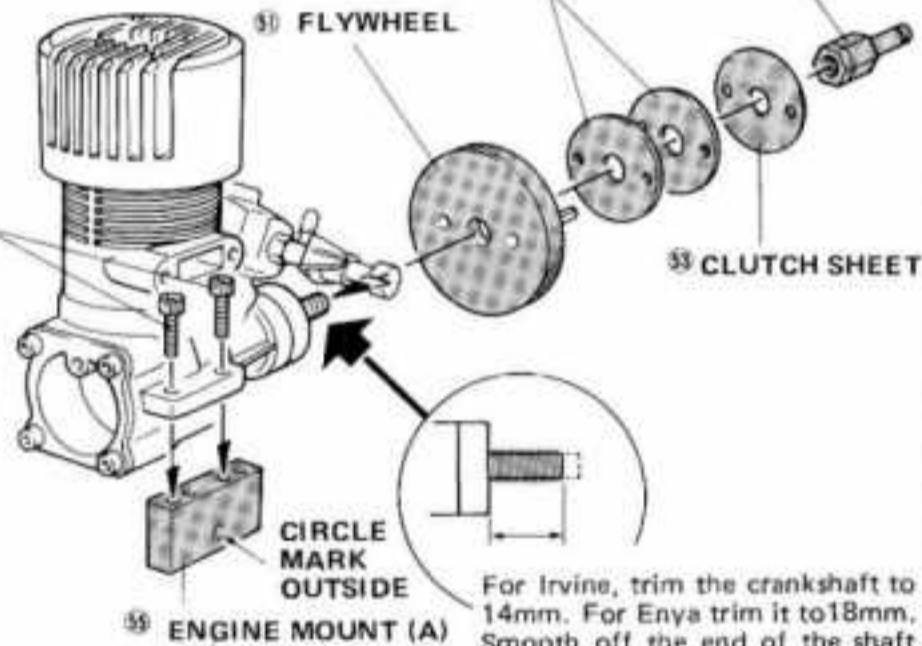


CIRCLE MARK INSIDE

59 ENGINE MOUNT (A) M3 X 10 SCREWS

IRVINE OR ENYA INSTALLATION

FLYWHEEL SPACER (ENYA ONLY) 54 PILOT SHAFT



CIRCLE MARK OUTSIDE

59 ENGINE MOUNT (A)

For Irvine, trim the crankshaft to 14mm. For Enya trim it to 18mm. Smooth off the end of the shaft before installing the pilot shaft.

### 18 CLUTCH

Insert 6 rollers into the clutch bearing as shown below.



Keep the clutch bearing oiled at all times.



54 PILOT SHAFT

59 CLUTCH BEARING

Do not cement the clutch lining. Simply press it into place.



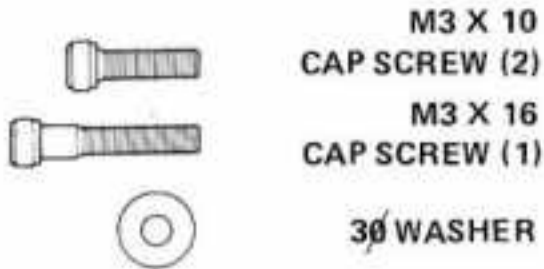
60 CLUTCH LINING

51 CLUTCH BELL (12T)

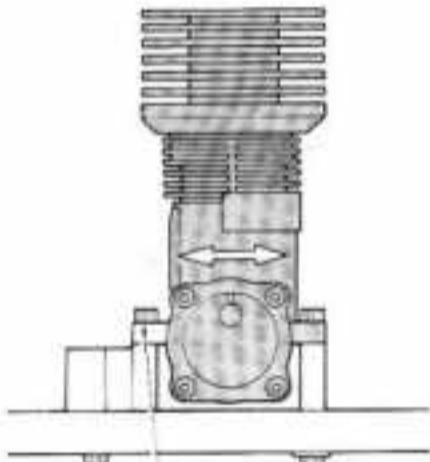
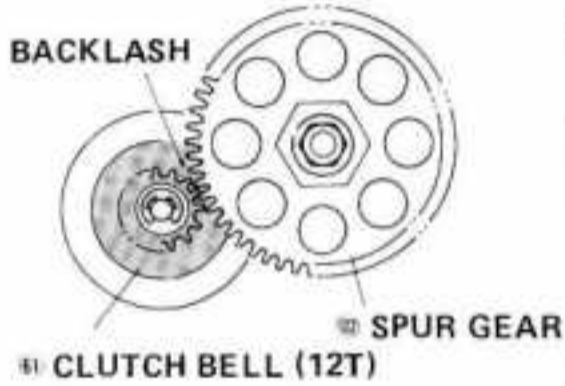
62 E RING (E-3)

50 WASHER

## 19 SMALL PARTS USED

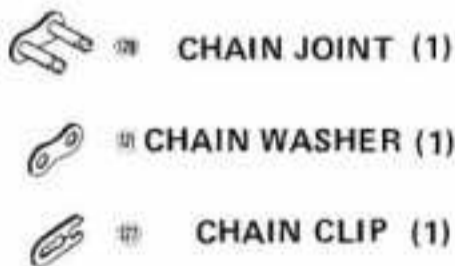


Adjust the meshing of the gears so that they move freely but still maintain good contact. "Backlash" is the amount of play in the gear mesh. You should have a small amount of backlash.

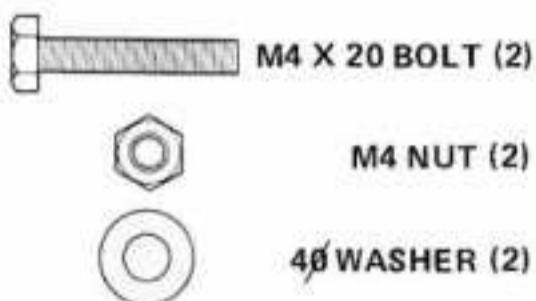


Barely loosen 3 motor bolts to make your backlash adjustments retighten when adjustments are complete.

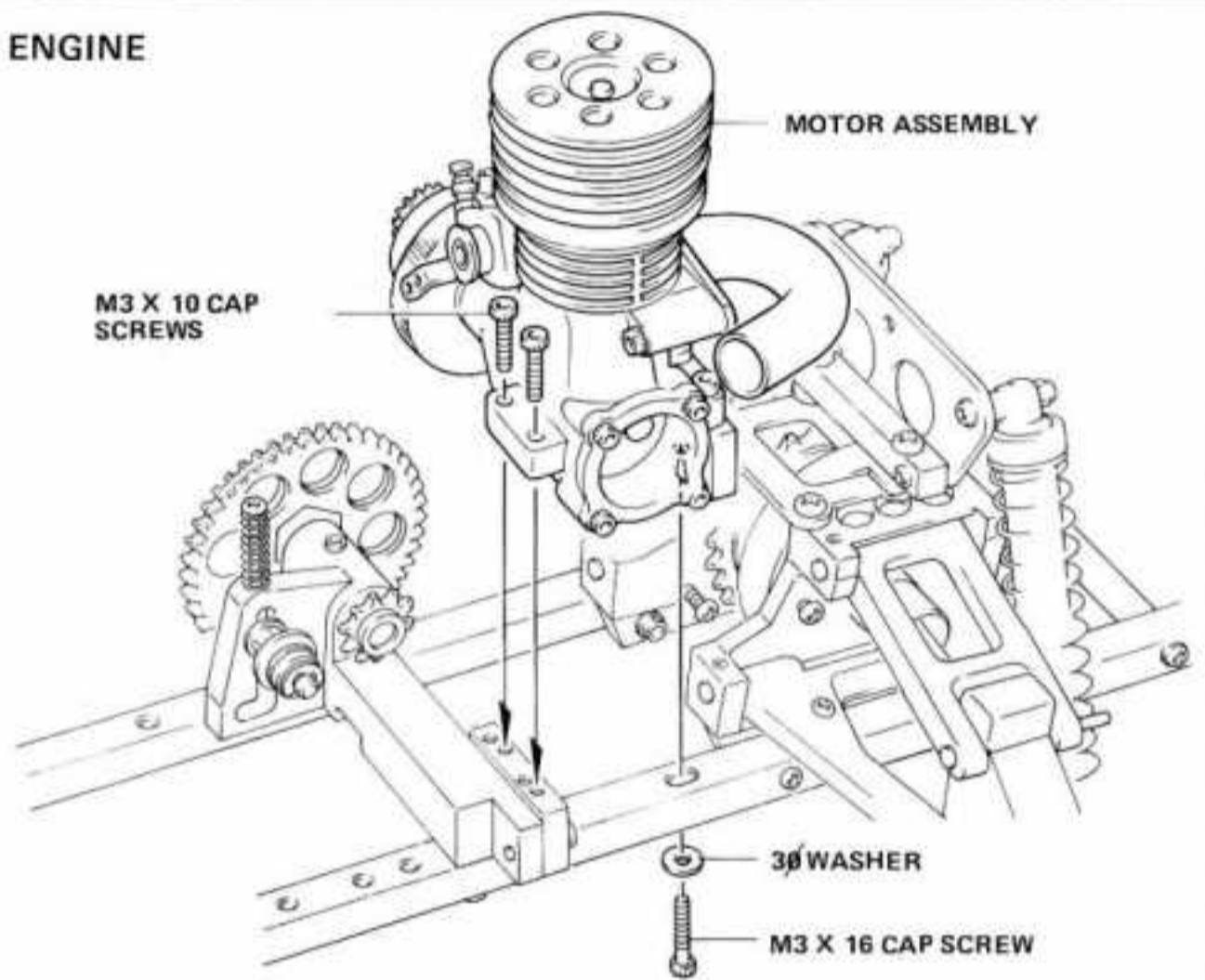
## 20 SMALL PARTS USED



## 21 SMALL PARTS USED

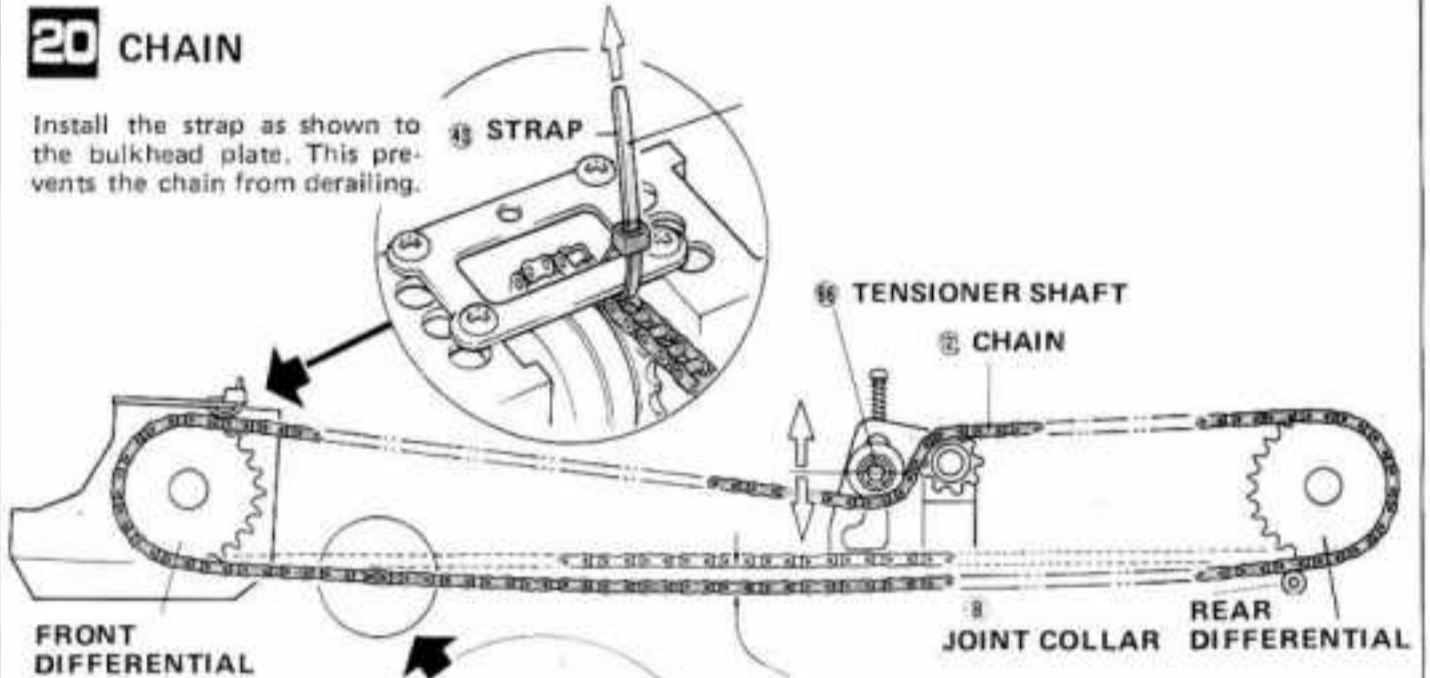


## 19 ENGINE

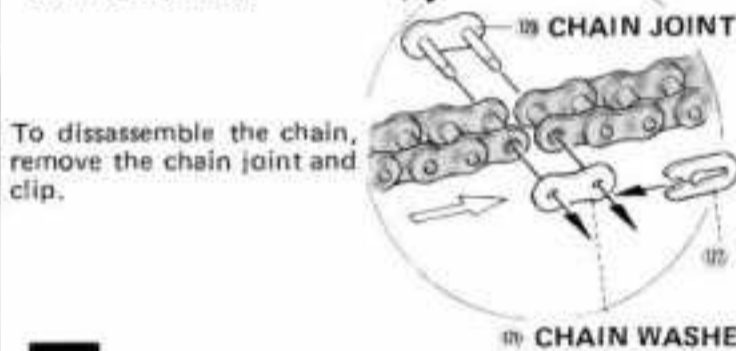


## 20 CHAIN

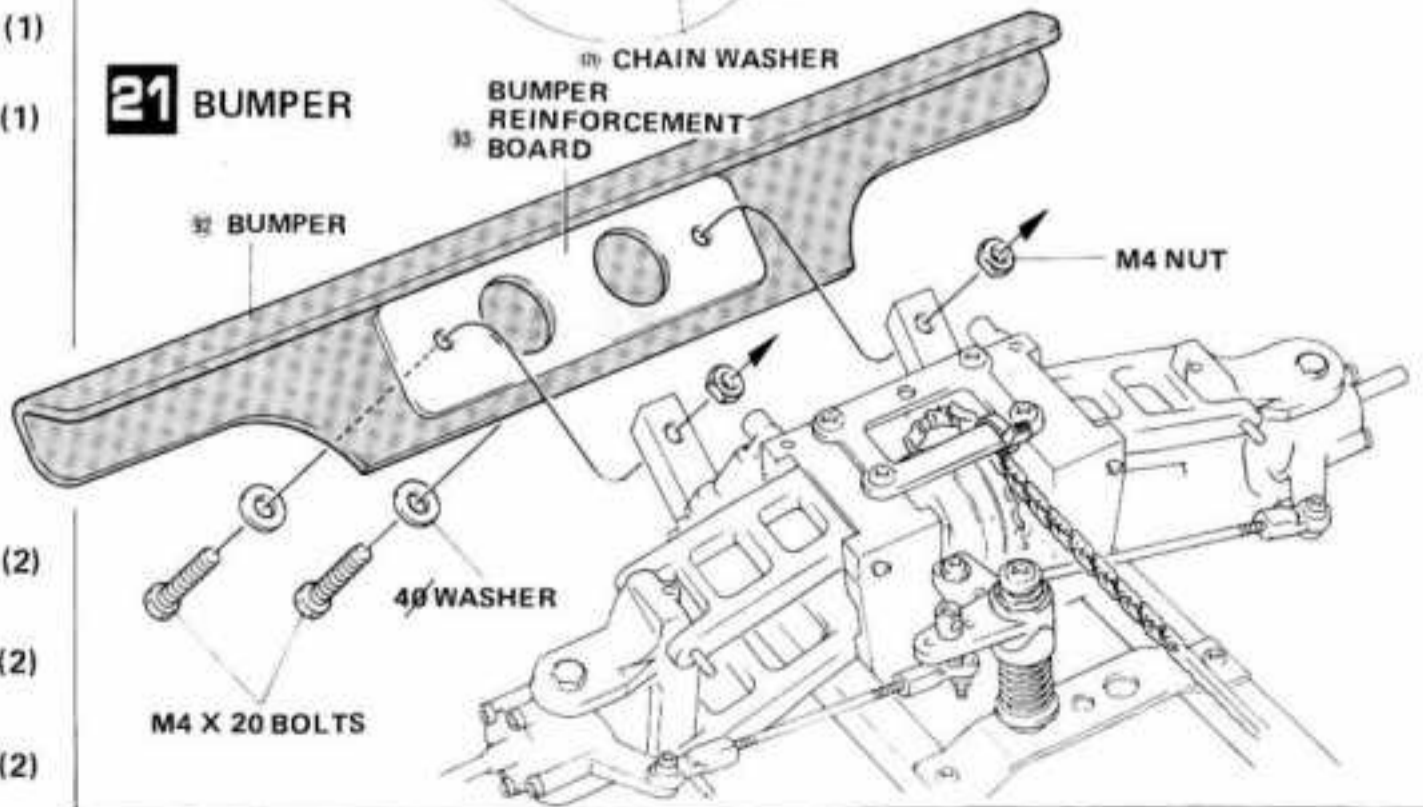
Install the strap as shown to the bulkhead plate. This prevents the chain from derailing.



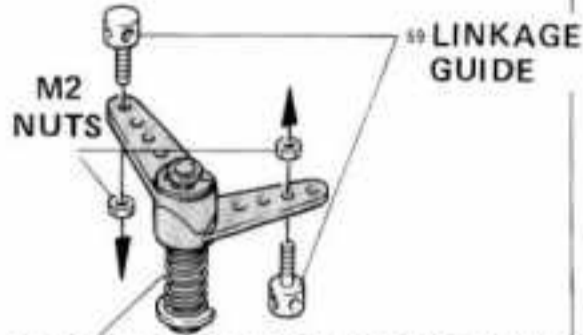
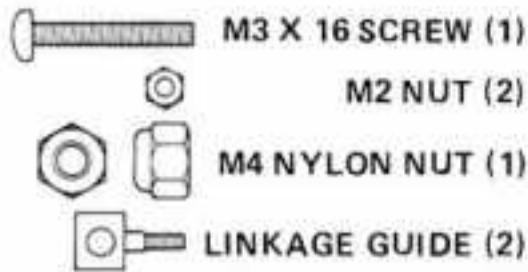
Adjust the tensioner shaft so that the chain has about 3mm of play or slack.



## 21 BUMPER

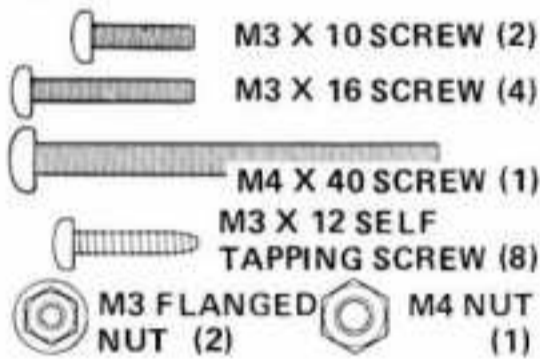


## 22 SMALL PARTS USED

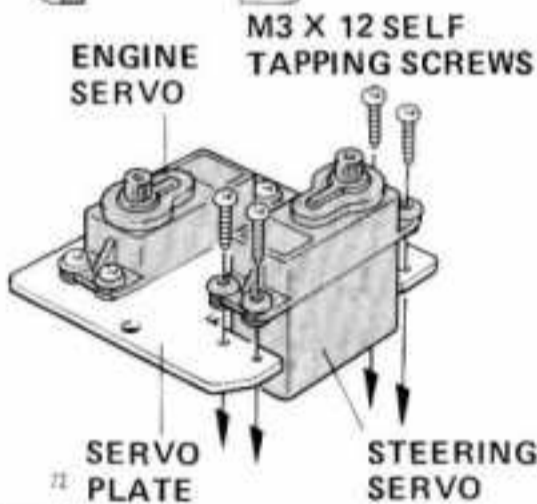
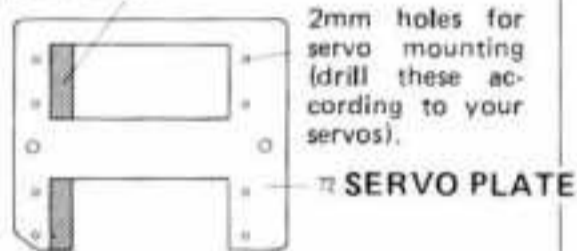


## 21 ENGINE CONTROL SERVO SAVER

## 23 SMALL PARTS USED



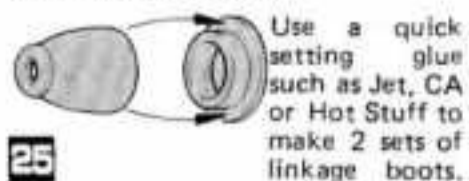
You may need to trim away some of the shaded portion of the servo plate to fit your servos.



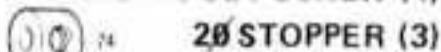
## 24 SMALL PARTS USED



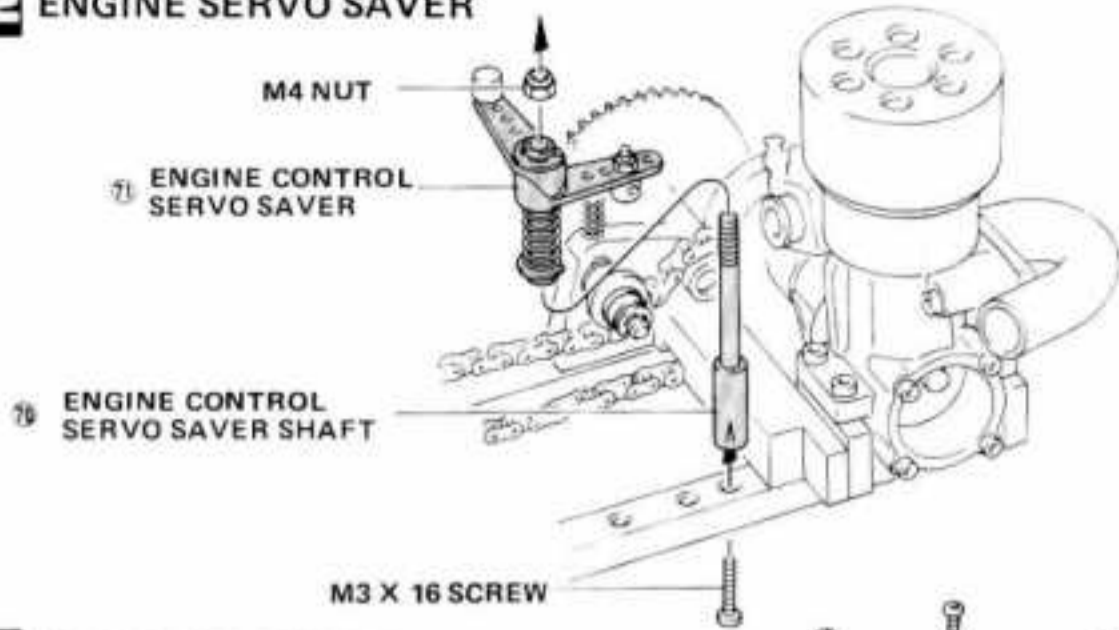
## 75 LINKAGE BOOT



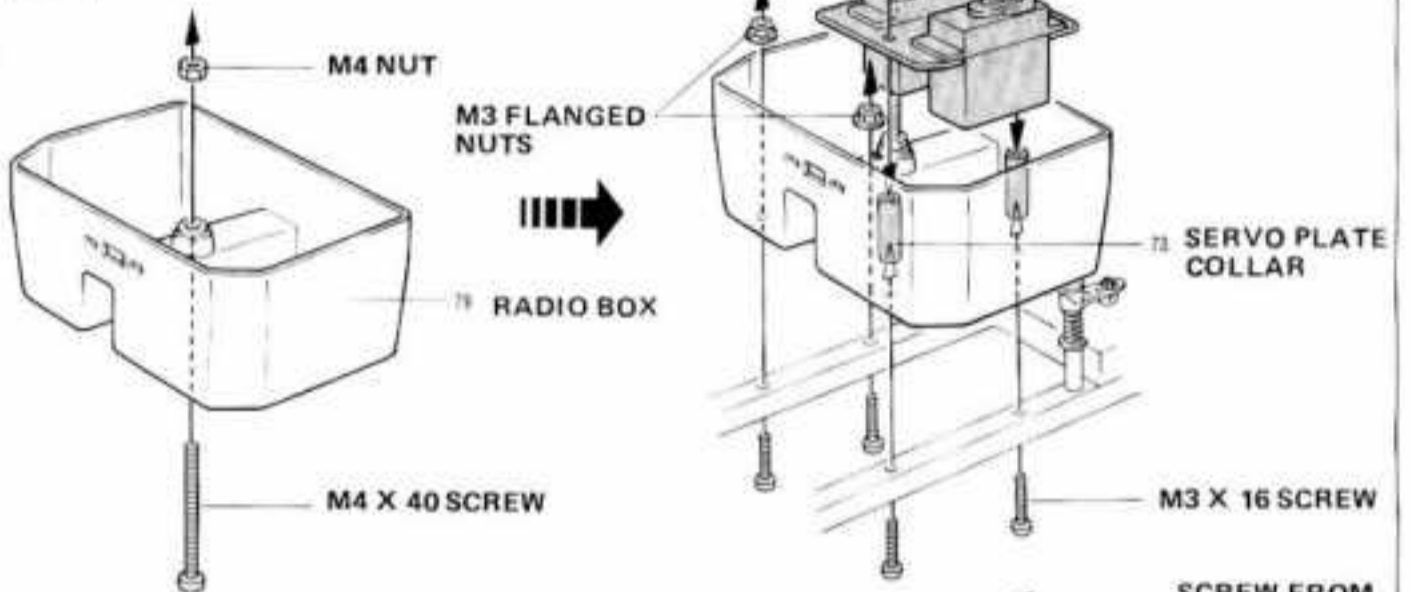
## 25



## 22 ENGINE SERVO SAVER



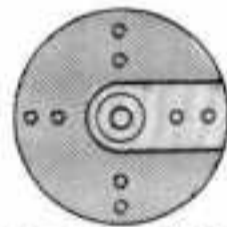
## 23 SERVO MOUNTING



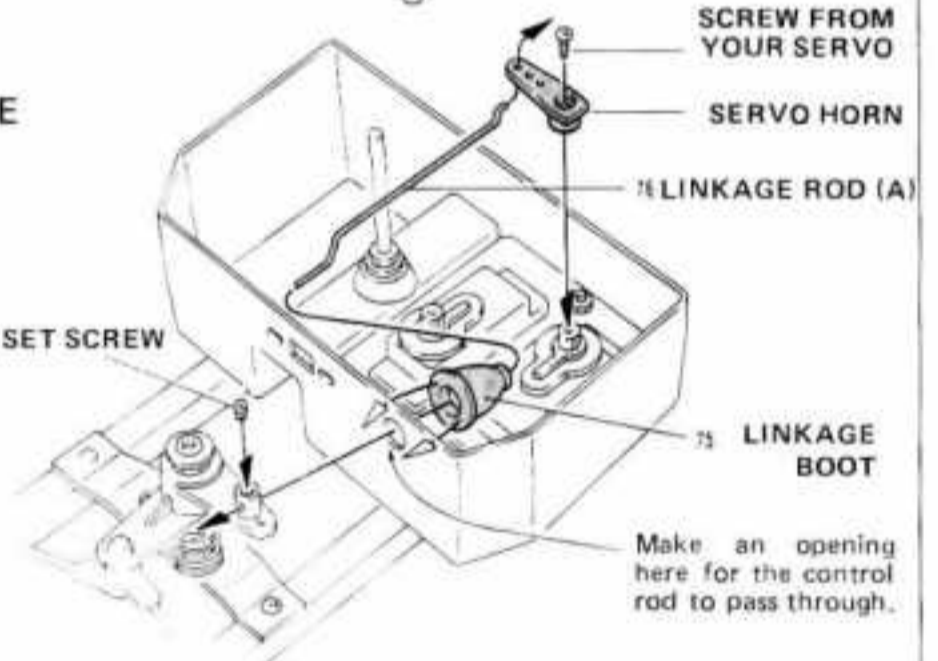
## 24 STEERING LINKAGE



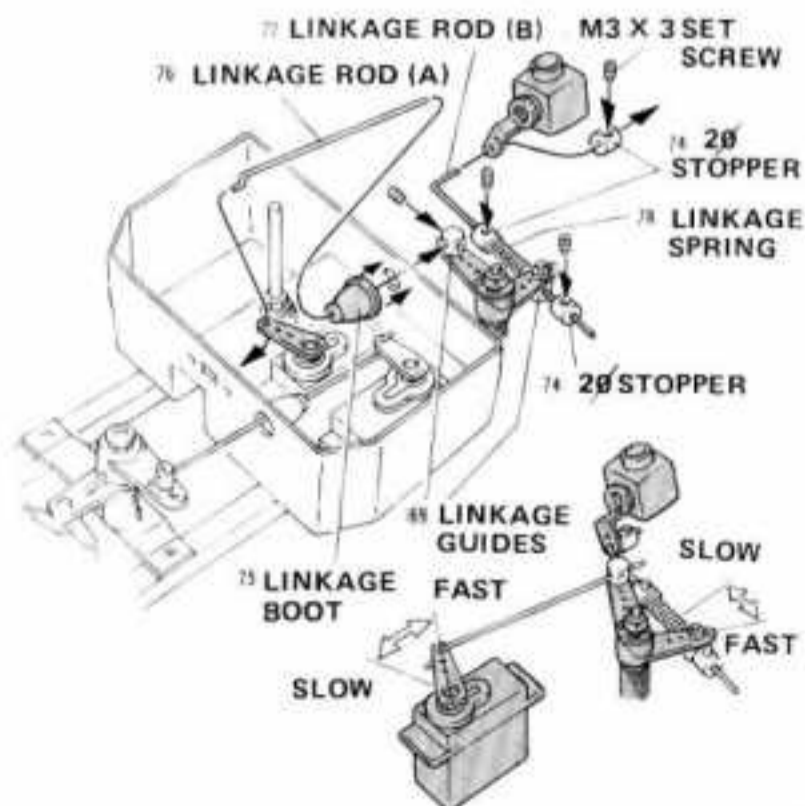
Trim away the shaded portions of your servo horns.



M3 X 3 SET SCREW



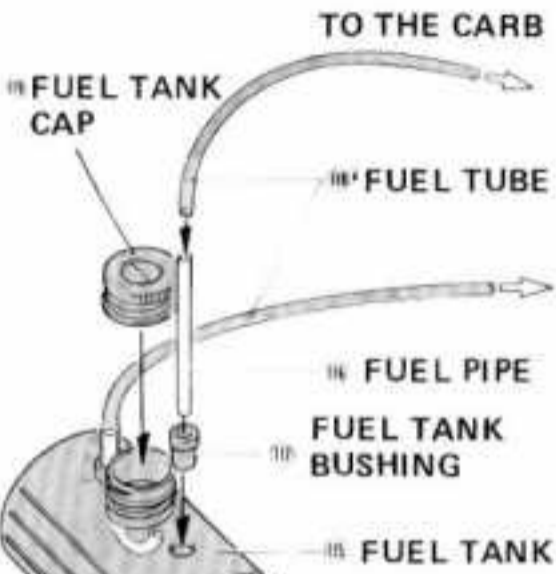
## 25 ENGINE LINKAGE



## 26 SMALL PARTS USED

- 10 M3 X 3 SET SCREW (2)
- 74 2Ø STOPPER (2)

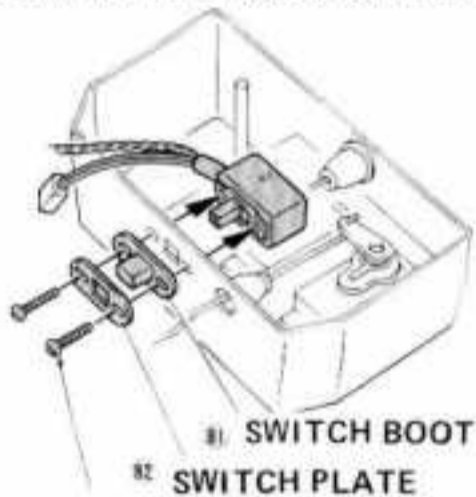
## 27 SMALL PARTS USED



Bend this air vent tube as shown.

Intake tube should be near the bottom.

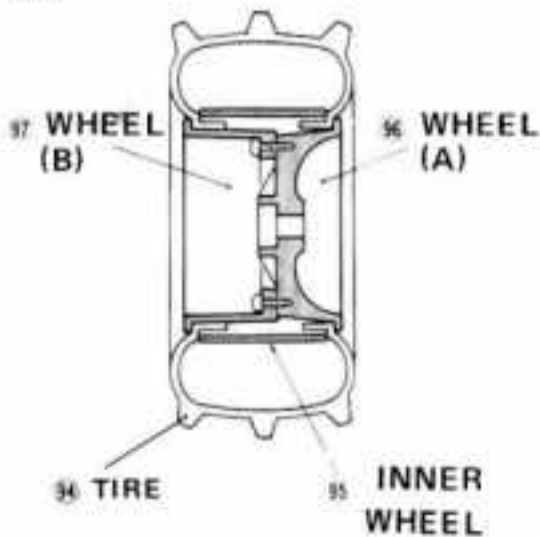
## 28 SMALL PARTS USED MOUNTING THE RADIO SWITCH



These screws come with your radio system.

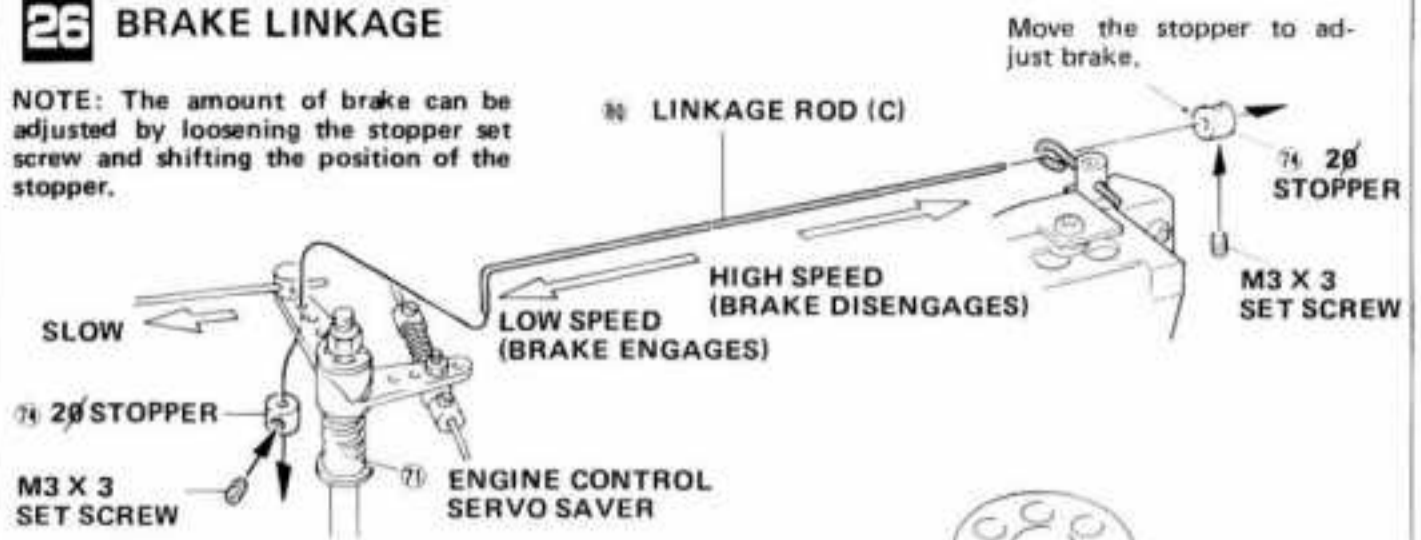
## 29 SMALL PARTS USED

- M2.6 X 12 SELF TAPPING SCREW (16)
- Cross-section view of assembled wheel/tire.

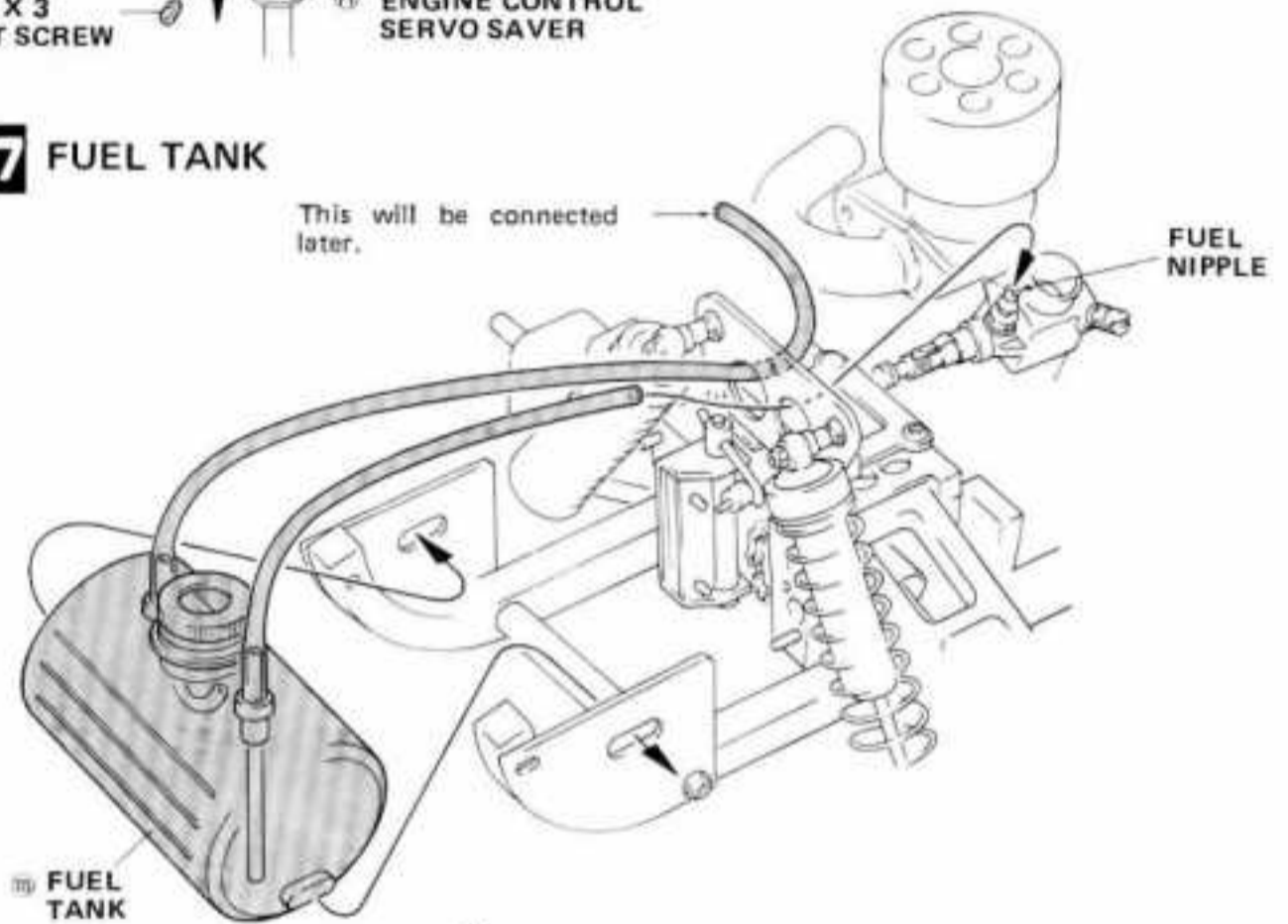


## 26 BRAKE LINKAGE

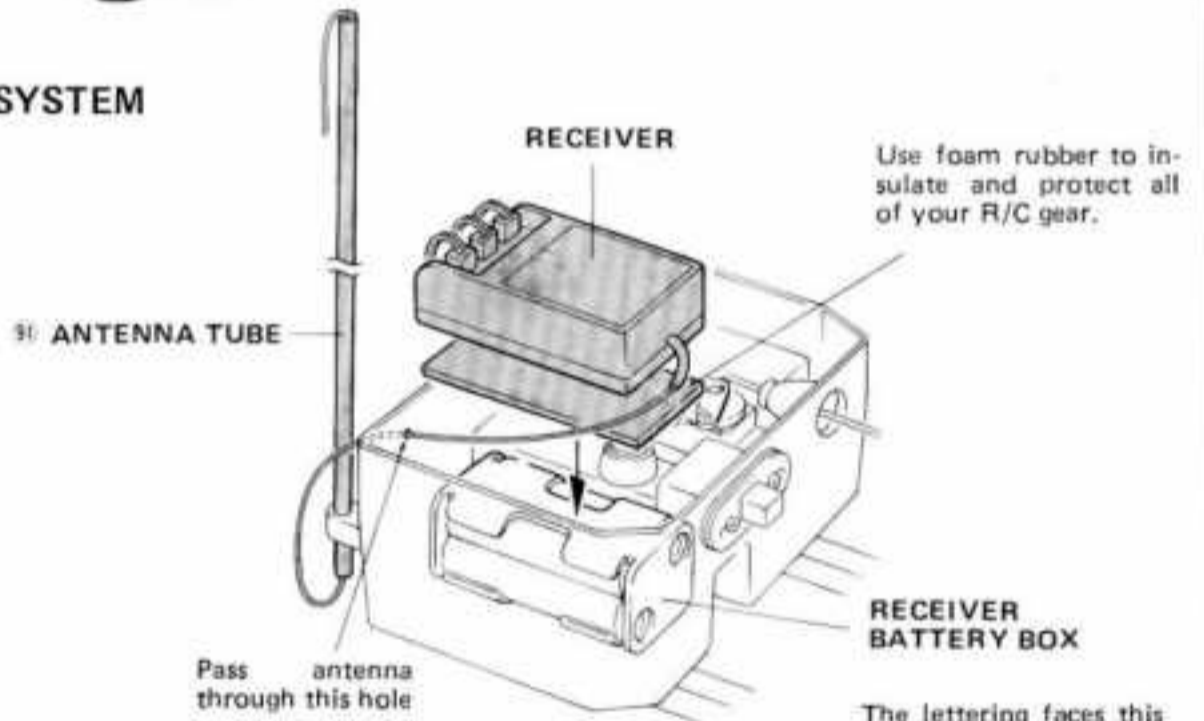
NOTE: The amount of brake can be adjusted by loosening the stopper set screw and shifting the position of the stopper.



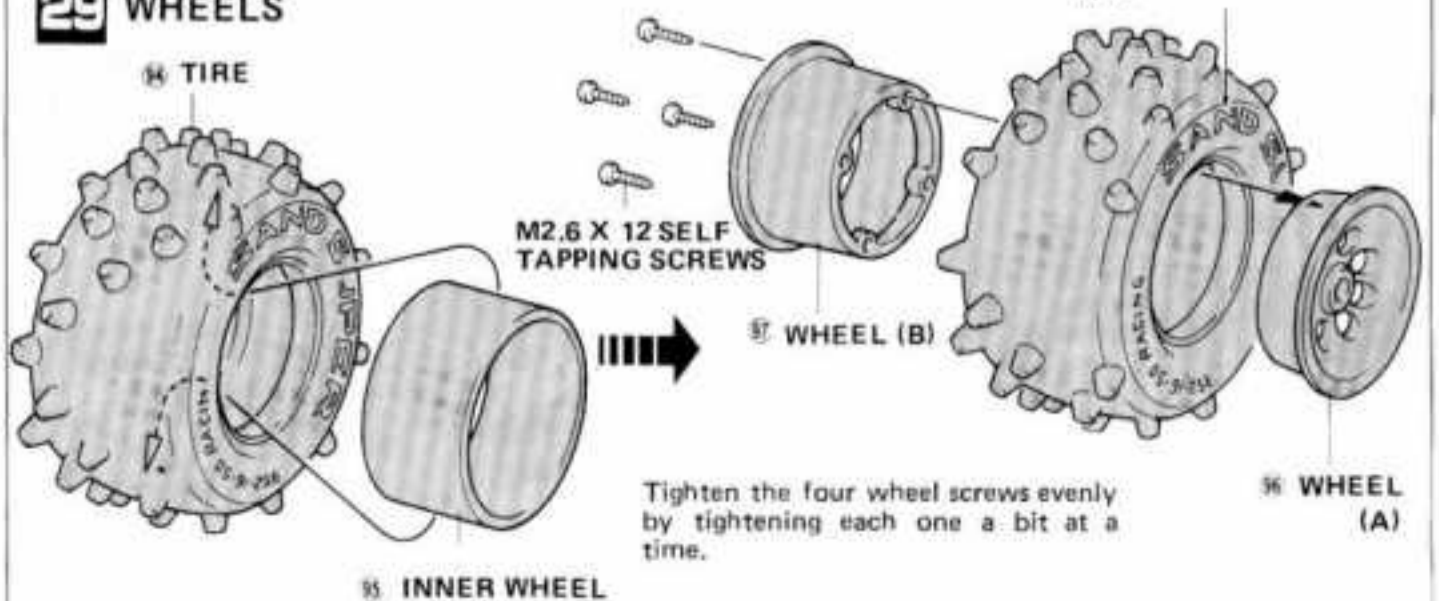
## 27 FUEL TANK



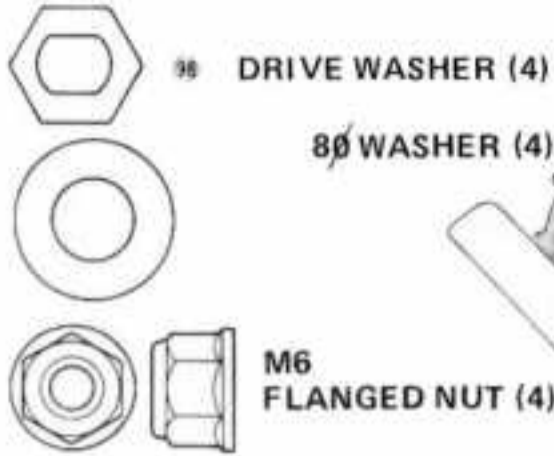
## 28 R/C SYSTEM



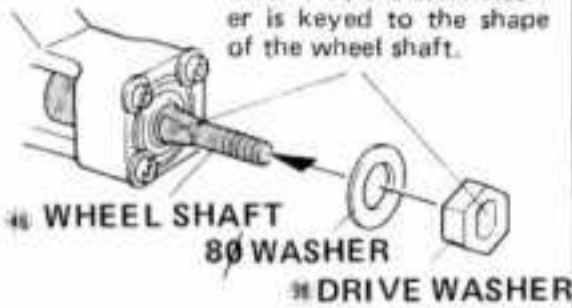
## 29 WHEELS



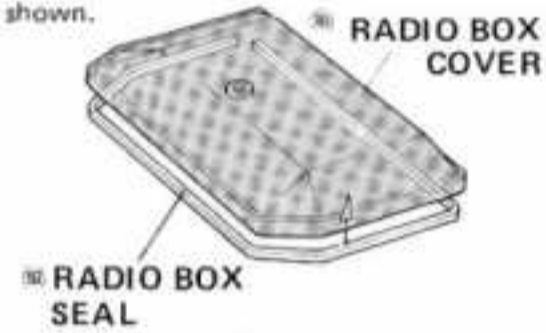
### 30 SMALL PARTS USED



Note that the drive washer is keyed to the shape of the wheel shaft.

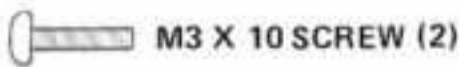


Install the radio box cover and seal as shown.



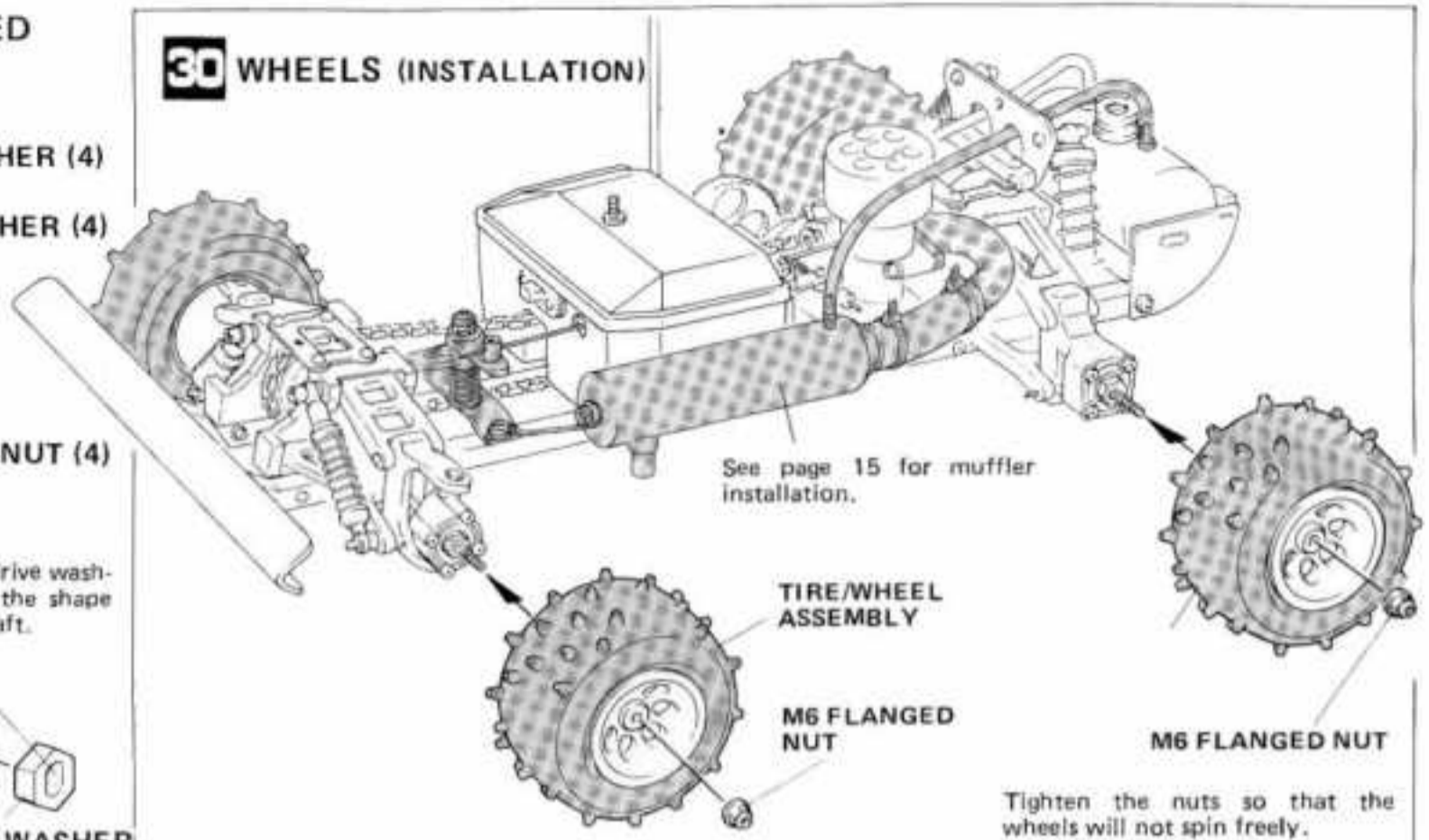
31 Use a high quality, fuel proof paint. Regular model enamels will dissolve and flake off.

### 32 SMALL PARTS USED



33 The driver is made from clear plastic. The best job can be had by painting the inside. Before painting, wash the inside with a mild detergent (like dish soap) and warm water to remove any manufacturing oils. Make sure the plastic is completely dry before painting.

### 30 WHEELS (INSTALLATION)

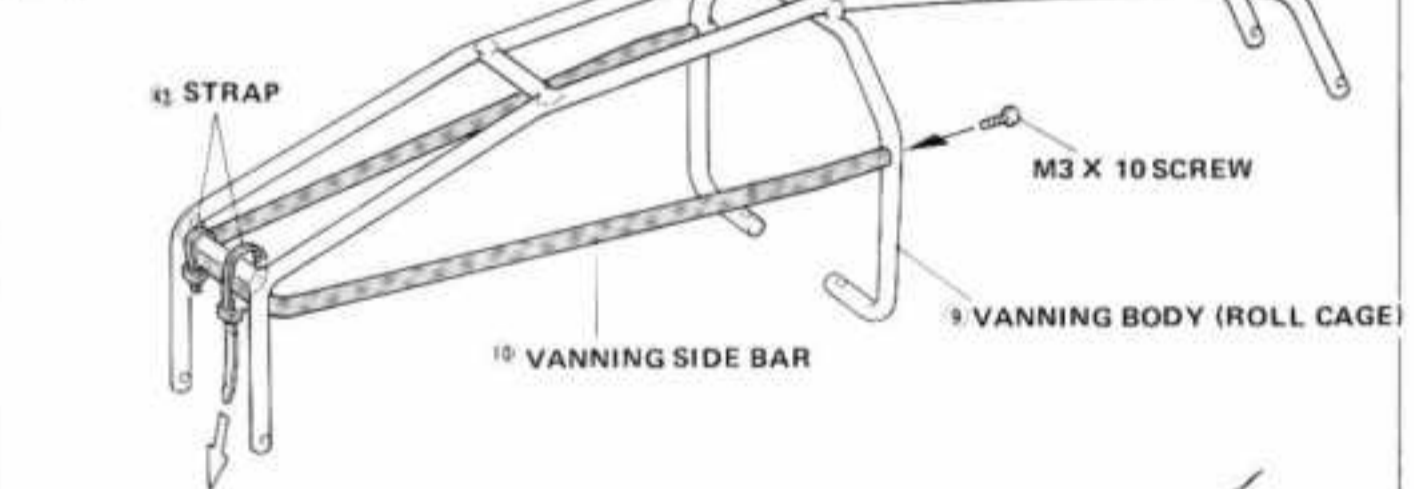


Tighten the nuts so that the wheels will not spin freely.

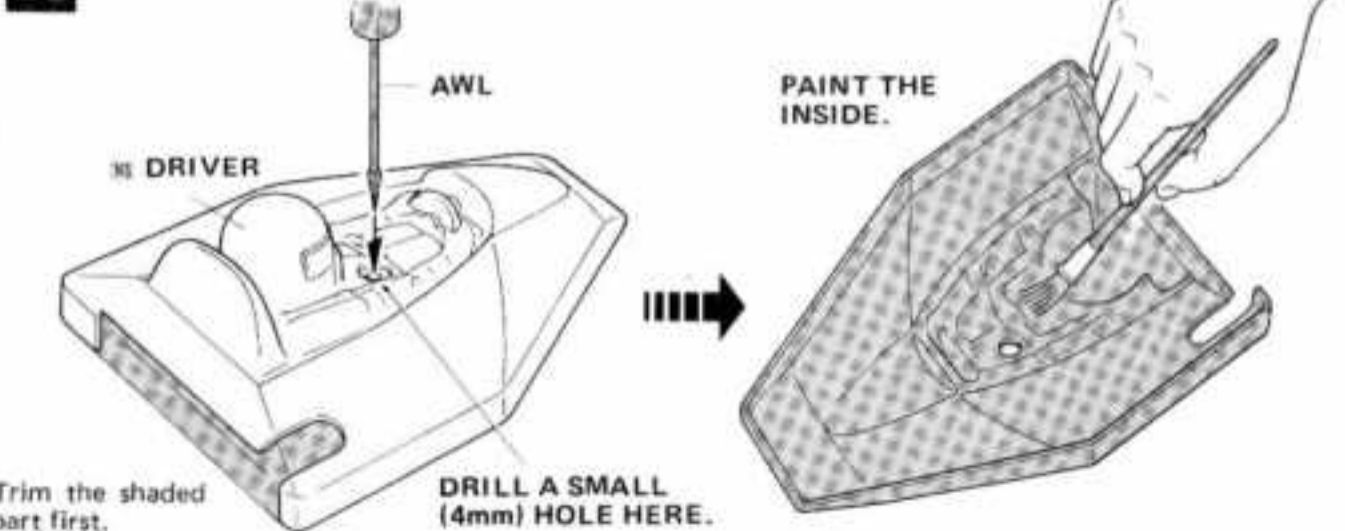
### 31 PAINTING (VANNING)



### 32 ROLL CAGE (VANNING)








### 33 DRIVER (VANNING)



Trim the shaded part first.

### 34 SMALL PARTS USED

-  M3 X 20 SCREW (2)
-  M3 X 25 SCREW (4)
-  M3 NUT (2)
-  3/8 WASHER (2)
-  INSTALL KNOB (1)

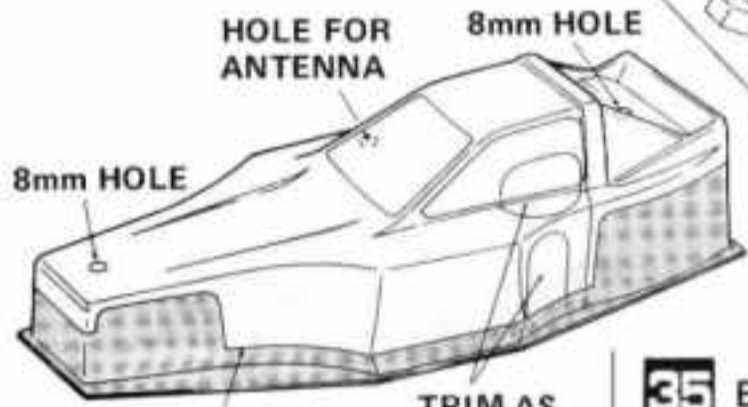
M3 X 25 FLANGED SCREW

### 35

Trim the shaded areas from the Presto's body. See step No. 33 for painting tips.

HOLE FOR ANTENNA  
8mm HOLE

8mm HOLE

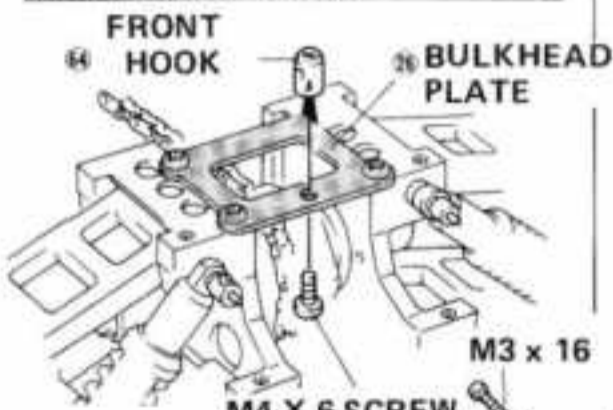


CUTOUT LINE TRIM AS NEEDED

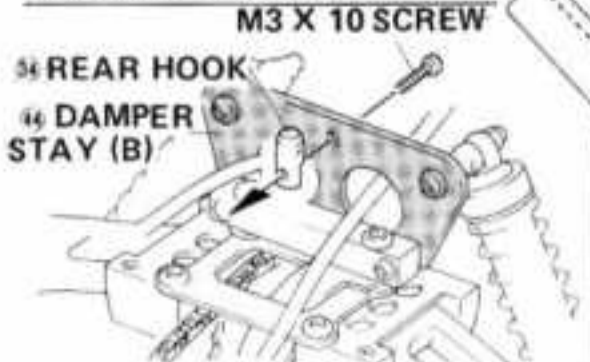
### 36 SMALL PARTS USED

-  M3 X 10 SCREW (1)
-  M3 X 16 SCREW (2)
-  M3 X 20 FLANGED SCREW (2)
-  M4 X 6 SCREW (1)
-  FRONT HOOK (1)
-  REAR HOOK (1)
-  HOOK PIN (2)
-  INSTALL KNOB (1)

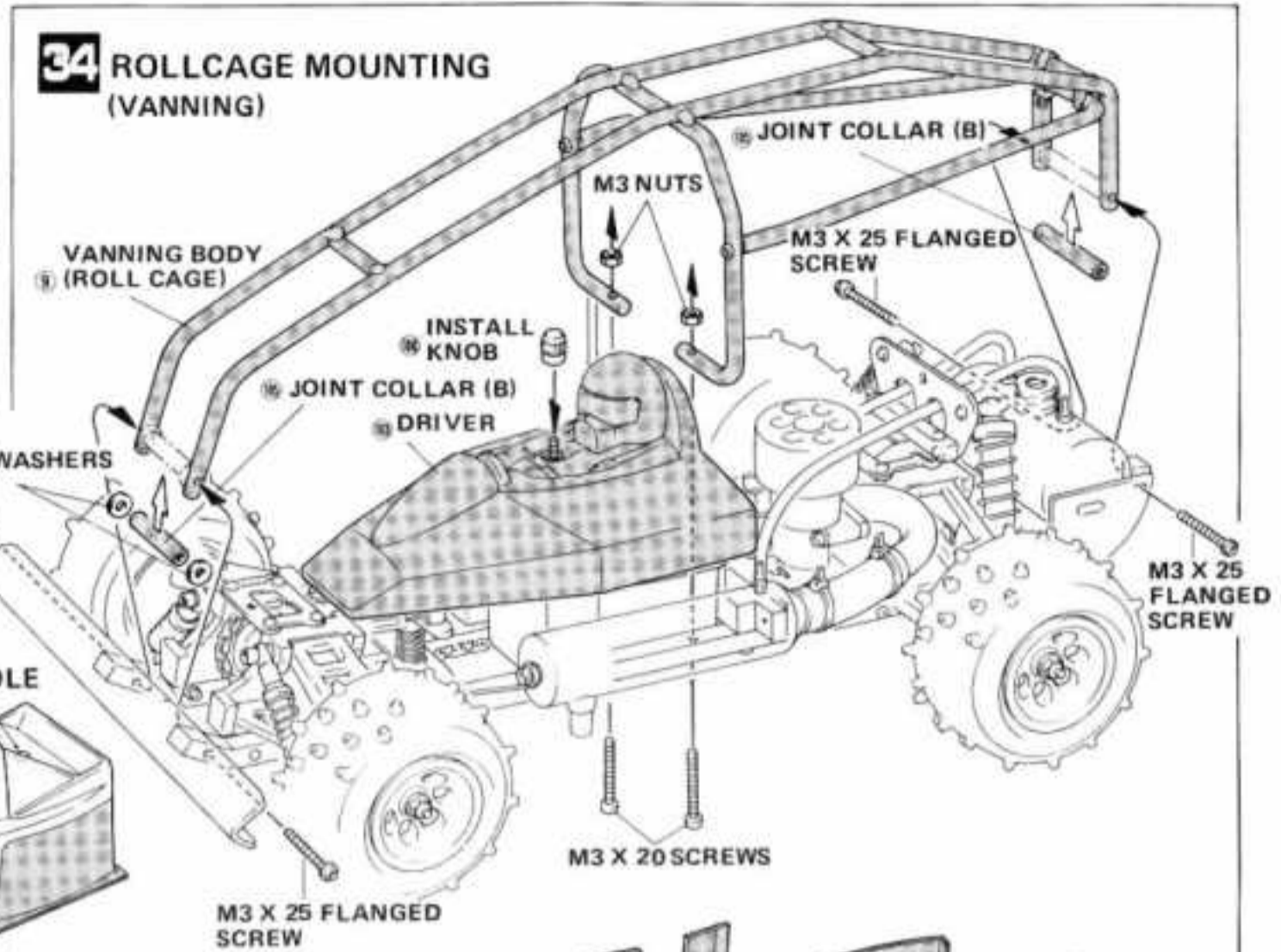
#### FRONT BODY HOOK



#### REAR BODY HOOK

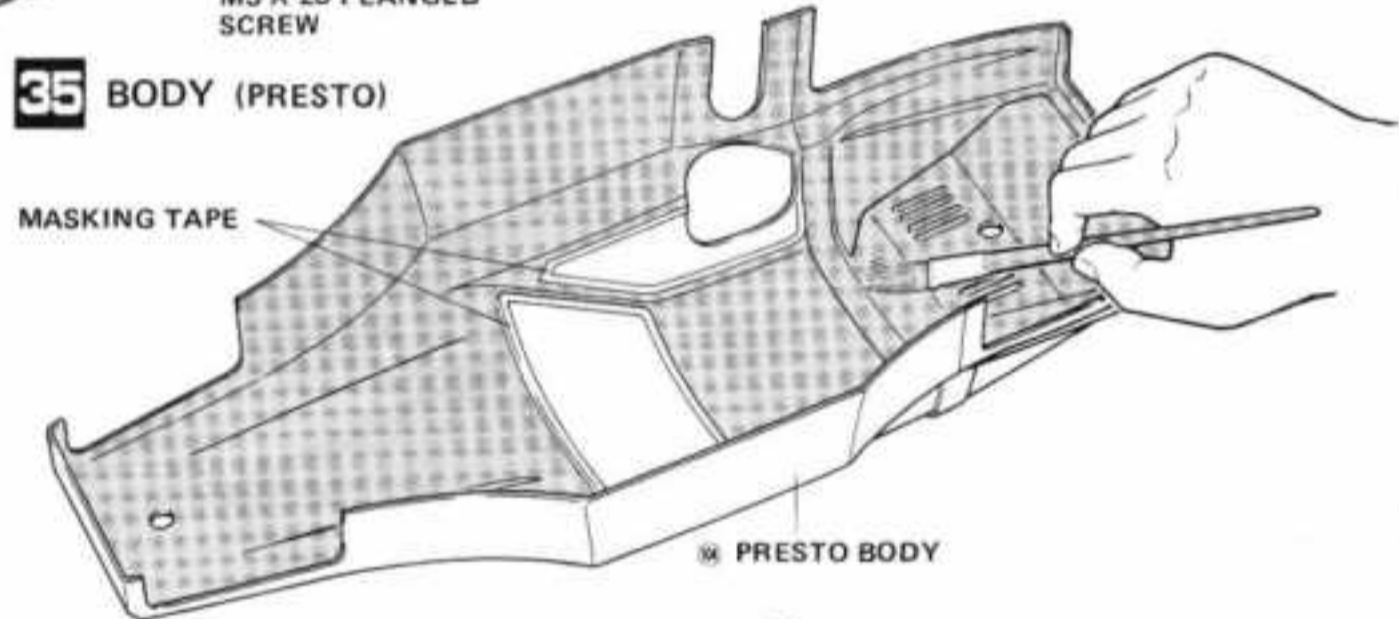


### 34 ROLL CAGE MOUNTING (VANNING)

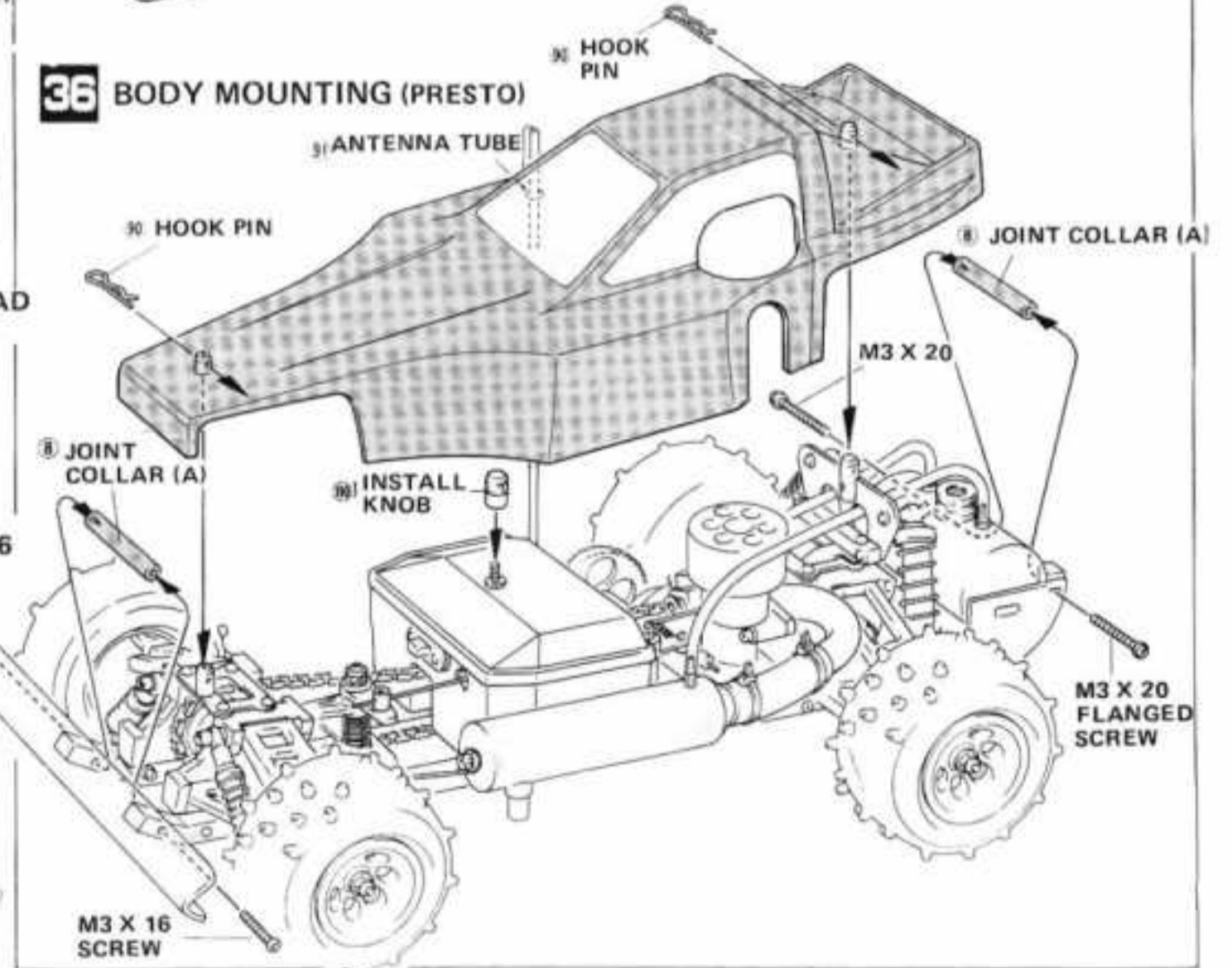


### 35 BODY (PRESTO)

MASKING TAPE

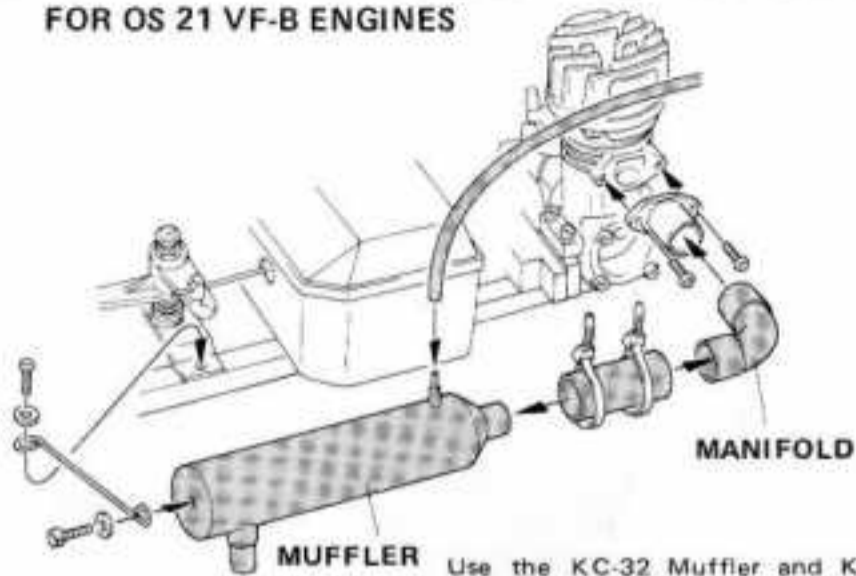


### 36 BODY MOUNTING (PRESTO)



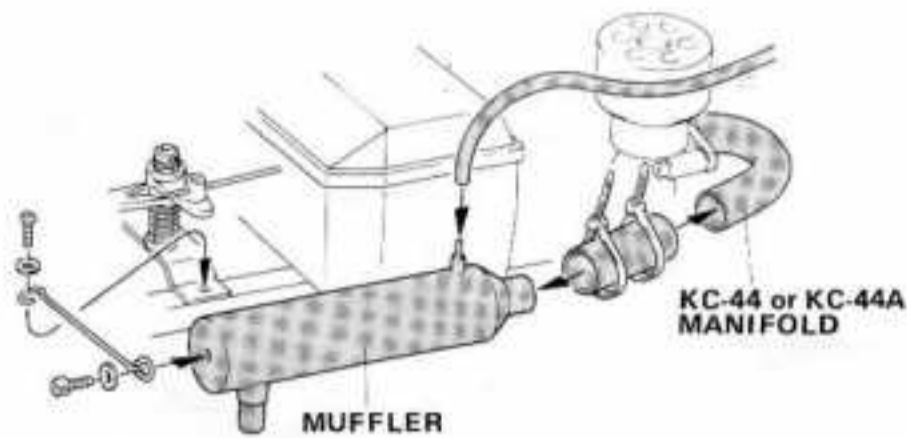
## OPTIONAL PARTS

### FOR OS 21 VF-B ENGINES



Use the KC-32 Muffler and KC-31 Manifold if you are installing the OS 21VF-B (or 21VF-C) rear exhaust engine. Install both as shown above.

### FOR OS 21FSR-B, IRVINE 21-25, ENYA .21 ENGINES



Use the KC-32 Muffler and KC-44 Manifold (for OS & Enya) or KC-44A Manifold (for Irvine) if you are installing any of the side exhaust engines listed above. Install as shown.

### USE AN AIR FILTER

#### AIR FILTER



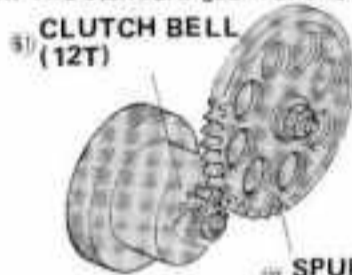
If your engine did not come with an air filter, you must use one! If not, dust and other contaminants will damage your engine. The Kyosho CB-110 Air Filter should do the job for most engines.

### DIFFERENT GEAR RATIOS

| Clutch Bell  | Spur Gear    | Ratio    |
|--------------|--------------|----------|
| 12T (S D-53) | 53T (L D-27) | 10.6 : 1 |
| 13T (S D-54) | 52T (L D-26) | 9.6 : 1  |
| 14T (S D-55) | 51T (L D-25) | 8.7 : 1  |

Three different clutch bell/spur gear combinations are available to tune the car to your specific driving situation. The standard gear ratio is 10.6:1 which is

#### CLUTCH BELL (12T)



best for climbing and handling. For more speed, try one of the others. Because of the way the gears mesh, the combinations shown should be the only ones used.

### 'ONE-TOUCH' FUEL CAP

#### 'ONE-TOUCH' CAP



The Kyosho CB-161 'One-Touch' fuel cap will make pit stops and fuel-ups a breeze. The cap's top is spring loaded and hinged for your convenience.

## ADJUSTMENTS

### SUSPENSION ARMS

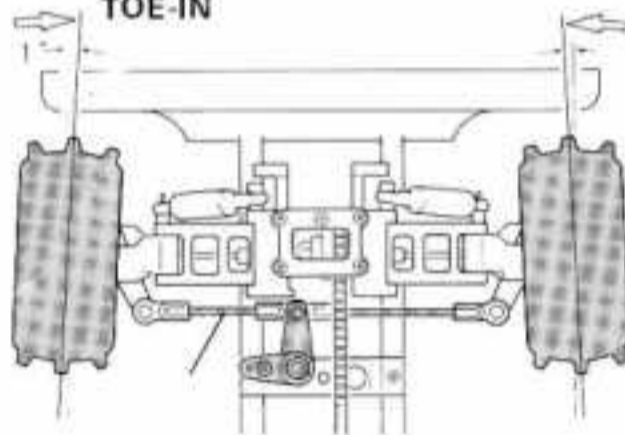
#### TURN SCREW



#### SUSPENSION ARM SELF TAPPING SCREW

To adjust the clearance height, turn the screw as shown clockwise to lower and counter-clockwise to raise.

### 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 length of the threaded tie rods. This model seems to run best with about 1 degree of toe-in on each side.

### STARTING THE ENGINE



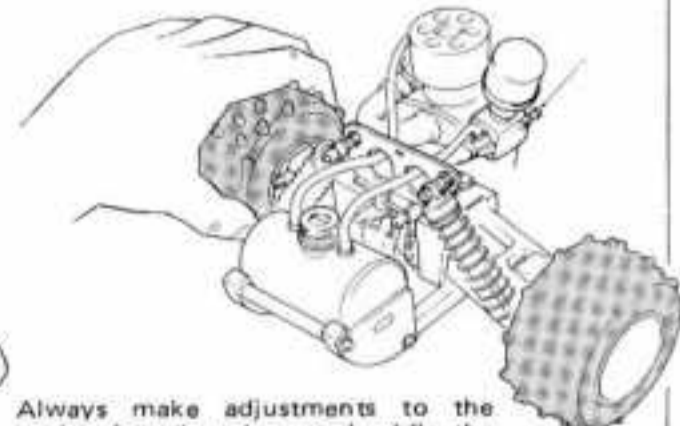
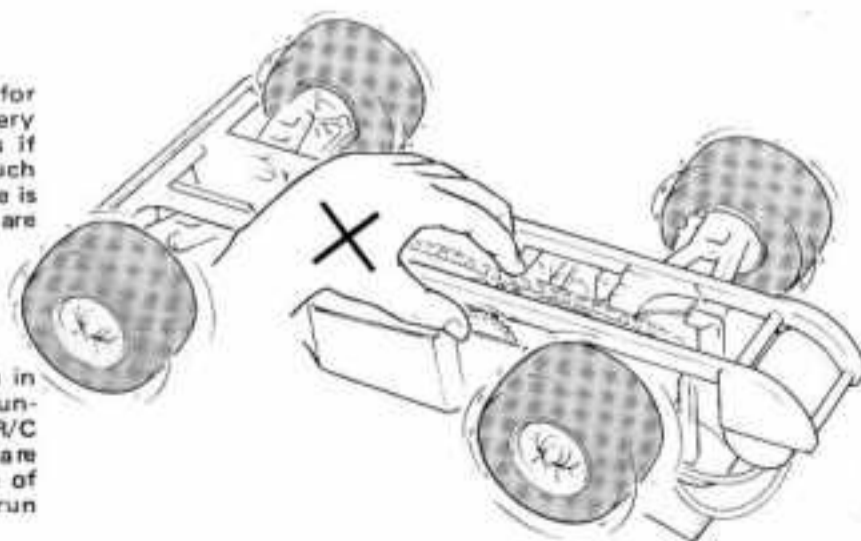
The engine is started by using an electric starter fitted with a rubber "donut". Pressing the starter against the flywheel causes the motor to spin (don't forget to hook up the glow plug to a power source). It may take you a few times to get the "hang" of this, but keep trying. After a short time, you'll be able to start the car on the first try almost every time.

### CAUTIONS

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).

Never allow young children to be in the immediate area that you are running your car. Kids love to chase R/C cars, BUT the Vanning and Presto are high performance vehicles capable of much damage and pain if they run into someone.

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



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.

## KEY NUMBERS LIST

## PURCHASING PARTS FOR YOUR KIT

|     |                             |       |
|-----|-----------------------------|-------|
| 1   | Main Chassis                | 1 Set |
| 2   | Servo Saver Mount           | 1     |
| 3   | Servo Saver                 | 1     |
| 4   | Servo Saver Shaft           | 1     |
| 5   | Collar                      | 2     |
| 6   | Steering Linkage Guide      | 1     |
| 7   | Tank Stay                   | 2     |
| 8   | Joint Collar (A) Presto     | 2     |
|     | (A) Vanning                 | 2     |
| 9   | Vanning Body (Roll cage)    | 1     |
| 10  | Vanning Side Bar            | 1     |
| 11  | Hub Carrier                 | 2     |
| 12  | Hub Carrier Mount (R)       | 1     |
| 13  | Hub Carrier Mount (L)       | 1     |
| 14  | King Pin                    | 4     |
| 15  | Damper Ball                 | 4     |
| 16  | Bulkhead (R)                | 2     |
| 17  | Bulkhead (L)                | 2     |
| 18  | Front Lower Arm             | 2     |
| 19  | Front Upper Arm             | 2     |
| 20  | Lower Arm Shaft (A)         | 6     |
| 21  | Lower Arm Shaft (B)         | 4     |
| 22  | Upper Arm Shaft (A)         | 4     |
| 23  | Upper Arm Shaft (B)         | 4     |
| 24  | Damper Bushing              | 4     |
| 25  | 30 Stopper                  | 2     |
| 26  | Bulkhead Plate              | 2     |
| 27  | Damper Oil                  | 1     |
| 28  | Ball End                    | 4     |
| 29  | Tie Rod (L)                 | 1     |
| 30  | Tie Rod (S)                 | 1     |
| 31  | Axle Bearing                | 4 Set |
| 32  | Damper Stay (A)             | 1     |
| 33  | Brake Cover                 | 1     |
| 34  | Rear Hook (Presto Only)     | 1     |
| 35  | Disk                        | 1     |
| 36  | Brake Arm                   | 1     |
| 37  | Brake Plate (A)             | 1     |
| 38  | Brake Plate (B)             | 1     |
| 39  | Brake Caliper               | 1     |
| 40  | Brake Shaft                 | 1     |
| 41  | Front Swing Shaft           | 2     |
| 42  | Joint                       | 4     |
| 43  | Strap Vanning               | 3     |
|     | Presto                      | 1     |
| 44  | Damper Stay (B)             | 1     |
| 45  | Damper Collar               | 7     |
| 46  | Wheel Shaft                 | 4     |
| 47  | Wheel Shaft Bearing         | 4     |
| 48  | Rear Swing Shaft            | 2     |
| 49  | Clutch Pin (S) for OS       | 2     |
| 50  | Clutch Pin (L) for Irvine   | 2     |
| 51  | Flywheel                    | 1     |
| 52  | Flywheel Spacer             | 2     |
| 53  | Clutch Sheet                | 1     |
| 54  | Pilot Shaft                 | 1     |
| 55  | Engine Mount (A)            | 1     |
| 56  | Engine Mount (B)            | 1     |
| 57  | Clutch Shoe                 | 2     |
| 58  | Clutch Spring               | 2     |
| 59  | Clutch Bearing              | 1 Set |
| 60  | Clutch Lining               | 1     |
| 61  | Clutch Bell (12T)           | 1     |
| 62  | E Ring (E-3)                | 1     |
| 63  | Adjust Spring               | 1     |
| 64  | Front Hook (Presto Only)    | 1     |
| 65  | Spur Gear Shaft             | 1     |
| 66  | Tensioner Shaft             | 1     |
| 67  | Tensioner Guide             | 1     |
| 68  | E Ring (E-4)                | 1     |
| 69  | Linkage Guide               | 2     |
| 70  | Eng. Con. Servo Saver Shaft | 1     |
| 71  | Eng. Con. Servo Saver       | 1 Set |
| 72  | Servo Plate                 | 1     |
| 73  | Servo Plate Collar          | 2     |
| 74  | 20 Stopper                  | 2     |
| 75  | Linkage Boots               | 2 Set |
| 76  | Linkage Rod (A)             | 2     |
| 77  | Linkage Rod (B)             | 1     |
| 78  | Linkage Spring              | 1     |
| 79  | Radio Box                   | 1     |
| 80  | Linkage Rod (C)             | 1     |
| 81  | Switch Boot                 | 1     |
| 82  | Switch Plate                | 1     |
| 83  | Sprocket                    | 2     |
| 84  | Diff. Metal                 | 4     |
| 85  | Bevel Gear (L)              | 4     |
| 86  | Center shaft                | 2     |
| 87  | Bevel Shaft                 | 2     |
| 88  | Bevel Gear (S)              | 4     |
| 89  | Diff. Case                  | 4     |
| 90  | Hook Pin (Presto Only)      | 2     |
| 91  | Antenna Tube                | 1     |
| 92  | Bumper                      | 1     |
| 93  | Bumper Reinforce Board      | 1     |
| 94  | Tire                        | 4     |
| 95  | Inner Wheel                 | 4     |
| 96  | Wheel (A)                   | 4     |
| 97  | Wheel (B)                   | 4     |
| 98  | Drive Washer                | 4     |
| 99  | Damper Wrench               | 1     |
| 100 | Install Knob                | 1     |
| 101 | Radio Box Cover             | 1     |
| 102 | Radio Box Seal              | 1     |
| 103 | Driver (Vanning Only)       | 1     |
| 104 | Presto Body (Presto Only)   | 1     |
| 105 | Joint Collar (B)(Van. Only) | 2     |
| 106 | Rear Damper                 | 2     |
| 107 | Rear Sus. Spring Stay       | 2     |
| 108 | Rear Spring                 | 2     |
| 109 | Rear Spring Stay            | 2     |
| 110 | Front Damper                | 2     |
| 111 | Spring Stopper              | 2     |
| 112 | Spring Retainer             | 2     |
| 113 | Spur Gear Mount             | 2     |
| 114 | Spur Gear Bushing           | 1     |
| 115 | Fuel Tank                   | 1     |
| 116 | Fuel Pipe                   | 2     |
| 117 | Fuel Tank Bushing           | 2     |
| 118 | Fuel Tube                   | 1     |
| 119 | Fuel Tank Cap               | 1     |
| 120 | Chain Joint                 | 2     |
| 121 | Chain Washer                | 2     |
| 122 | Spur Gear                   | 1     |
| 123 | Chain                       | 2     |
| 124 | Rear Upper Arm              | 2     |
| 125 | Lower Arm Set               | 2     |
| 126 | Rear Hub                    | 2     |
| 127 | Chain Clip                  | 2     |
| 128 | Decal                       | 4     |
| 129 | Front Spring                | 2     |
| 130 | Tie Rod End                 | 4     |
| 131 | Tie Rod Ball                | 4     |
| 132 | Diff. Oil                   | 1     |
| 133 | Diff. Spring                | 2     |

You can purchase replacement and optional parts for your kit. We offer these parts in convenient parts "packs" which can be purchased separately. To figure out which parts pack you need, find the part in the key number list on the left side of this page. Then consult our parts pack guide, below. When referring to the parts you need, always use the **Parts Pack Number**. For instance, if you need an Adjust Spring (Key No. 63) ask your dealer for Kyosho Parts Pack LD-22 (Chain Tensioner).

| PARTS NO.             | DESCRIPTION                  | CONTENTS                           |
|-----------------------|------------------------------|------------------------------------|
| LD-1                  | Bumper                       | 20 20 X 1                          |
| LD-5                  | Front Hub Carrier            | 11 X 2                             |
| LD-7                  | Tie Rod Set                  | 20 20 X 1 20 20 X 4                |
| LD-11                 | Front Swing Shaft            | 41 X 2                             |
| LD-17                 | Chain Set                    | 20 20 20 20 X 1                    |
| LD-18                 | Joint Link                   | 20 20 20 X 1                       |
| LD-20                 | Engine Mount                 | 30 30 X 1                          |
| LD-22                 | Chain Tensioner              | 20 20 20 20 X 1                    |
| LD-24                 | Spur Gear Shaft              | 25 X 1                             |
| LD-27                 | Main Gear (53T)              | 20 X 1                             |
| LD-35                 | Eng. Con. Servo Saver        | 20 20 X 1                          |
| LD-36                 | Tank                         | 20 20 20 X 1 20 20 X 2             |
| LD-38                 | Mech. Bx. Set (Rad. Bx)      | 20 20 20 20 20 20 20 X 1 20 20 X 2 |
| KC-43                 | Spike Tires                  | 20 X 2                             |
| LD-45                 | Linkage Set                  | 6 74 78 80 77 X 1 100 75 X 2       |
| LD-47                 | Servo Saver (Steering)       | 3 4 X 1                            |
| LD-70                 | Clutch Bearing               | 38 X 1                             |
| LD-74                 | Drive Washer                 | 28 X 4                             |
| LD-76                 | Damper Rubber Bushing        | 25 X 10                            |
| LD-79                 | Rear Differential            | 25 25 25 27 20 20 X 1 20 20 20 X 2 |
| CB-11                 | Swing Shaft                  | 48 X 2                             |
| CB-13                 | Rear Wheel Shaft             | 28 X 2                             |
| CB-15                 | Ball Bearing                 | 27 X 2                             |
| CB-28                 | Clutch Parts Set             | 20 X 1 20 20 20 X 2                |
| CB-52                 | Joint                        | 42 X 2                             |
| CB-67                 | Clutch Spring                | 38 X 4                             |
| CB-72                 | E Ring (E-3)                 | 22 X 4                             |
| KC-41                 | Ball Bearing                 | 25 X 2                             |
| CB-89                 | Rear Oil Damper              | 15 28 20 X 2                       |
| SD-53                 | Clutch Bell (12T)            | 21 X 1                             |
| SD-56                 | Lining                       | 20 X 5                             |
| SD-76                 | Flywheel                     | 30 X 1                             |
| SD-79                 | Antenna Set                  | 25 X 5                             |
| FM-20                 | Clutch Sheet                 | 22 X 5                             |
| FM-26A                | Flywheel Spacer              | 22 X 1                             |
| FM-29                 | Body Pin                     | 20 X 10                            |
| FM-73                 | Pilot Shaft                  | 24 X 1                             |
| SC-85                 | Front Damper                 | 15 28 28 20 20 20 X 2 20 X 1       |
| EF-38                 | Strap                        | 42 X 6                             |
| KC-1                  | Main Chassis                 | 1 X 1                              |
| KC-2                  | Plate Set                    | 2 X 1 2 20 X 2                     |
| KC-6                  | Hub Carrier Mount            | 12 13 X 1                          |
| KC-7                  | King Pin                     | 14 X 4                             |
| KC-8                  | Bulkhead                     | 16 17 X 1                          |
| KC-9                  | Front Arm Set                | 18 19 X 1                          |
| KC-10                 | Rear Arm Set                 | 20 20 20 X 1                       |
| KC-11                 | Arm Shaft Set                | 20 X 6 20 22 X 4 20 X 2            |
| KC-16                 | Spur Gear Mount              | 20 X 1 20 X 2                      |
| KC-17                 | Collar Set                   | 3 X 2 45 X 7                       |
| KC-18                 | 30 Stopper                   | 25 X 10                            |
| KC-19                 | Rear Spring Set              | 20 20 20 X 2                       |
| KC-20                 | E Ring (E-4)                 | 28 X 4                             |
| KC-21                 | Joint Collar (Presto)        | 8 X 3                              |
| KC-22                 | Joint Collar (Vanning)       | 8 X 1 26 X 2                       |
| KC-27                 | Brake Set Caliper            | 33 35 37 40 X 1                    |
| KC-30                 | Stainless Disc Set           | 35 37 38 X 1                       |
| KC-33                 | Body (Vanning)               | 9 10 X 1                           |
| KC-34                 | Body (Presto)                | 20 X 1                             |
| KC-35                 | Rear Spring Stay             | 32 44 X 1                          |
| KC-36                 | Body Hook (for Presto)       | 33 33 X 1                          |
| KC-37                 | Wheel Set                    | 25 26 27 X 2                       |
| KC-38                 | Screw Set & Wrench           | 1 Set                              |
| KC-39                 | Decal                        | 20 X 1                             |
| KC-42                 | Clutch Pin Set               | 48 30 X 2                          |
| <b>OPTIONAL PARTS</b> |                              |                                    |
| LD-25                 | Main Gear (51T)              | Use with SD-55 as a set (8.7:1)    |
| LD-26                 | Main Gear (52T)              | Use with SD-54 as a set (9.6:1)    |
| LD-71                 | Spur Gear Bearing            | Replaces Key No. 114 (2 Required)  |
| LD-82                 | Parts for OS, Picco Eng.     |                                    |
| CB-110                | Air Cleaner                  | New Foam Type                      |
| CB-161                | One Touch Cap                |                                    |
| SD-54                 | Clutch Bell (13Z)            | Use with LD-26 as a set            |
| SD-55                 | Clutch Bell (14Z)            | Use with LD-25 as a set            |
| KC-31                 | Manifold for OS rear exhaust | Fits OS 21VF-B & VF-C              |
| KC-32                 | Muffler                      |                                    |
| KC-44                 | Muff. Manifold-OS/Enya       | Side exhaust engines only          |
| 1 8 8 0               | Damper Oil                   |                                    |
| 1 8 0 1               | Hard Oil for Diff.           |                                    |
| CB-84                 | Ball Bearing                 | Replaces Key No. 31                |
| KC-45                 | Heavy Duty Clutch Parts      | Clutch Shoes, Springs and Pins     |
| KC-44A                | Muff. Manifold for Irvine    | Fits Irvine 20-25 side exhaust     |

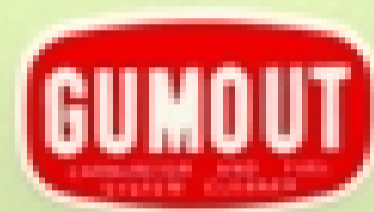
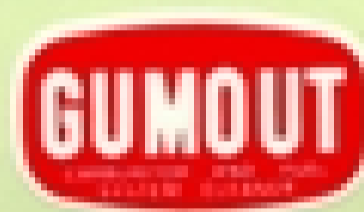


VANNING  
VANNING



FRONTIER  
FRONTIER

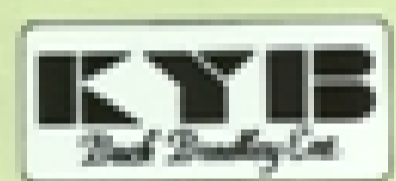
SUPER BUGGY  
SUPER BUGGY



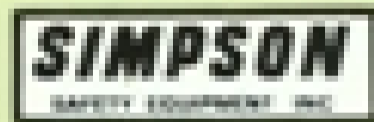
PRESTO  
PRESTO



INTEGRA 4WD



INTEGRA 4WD



BILSTEIN



BILSTEIN

T/W MADE T/W MADE



ENGINE & MACHINE TUNE

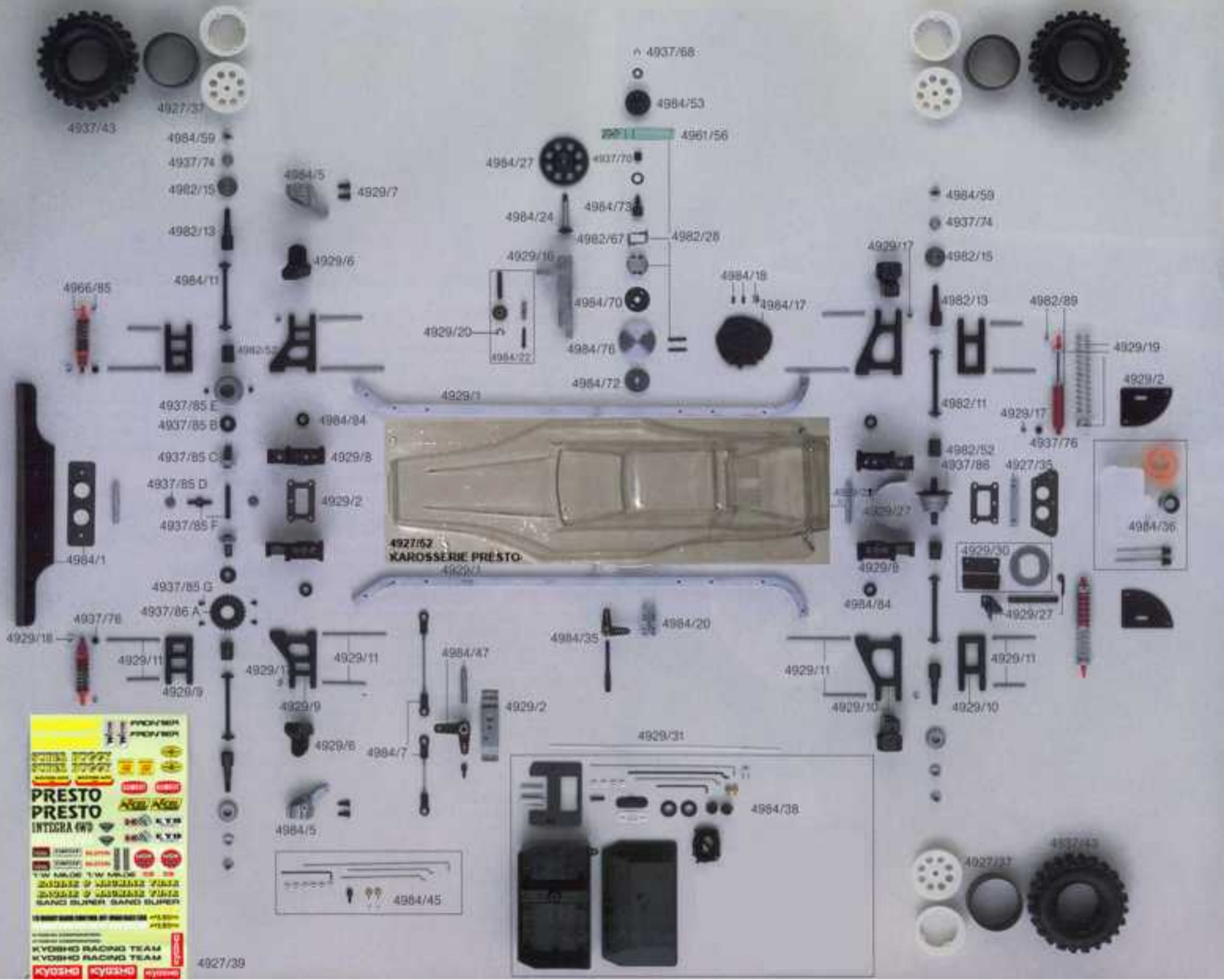
ENGINE & MACHINE TUNE

SAND SUPER SAND SUPER

SAND SUPER SAND SUPER

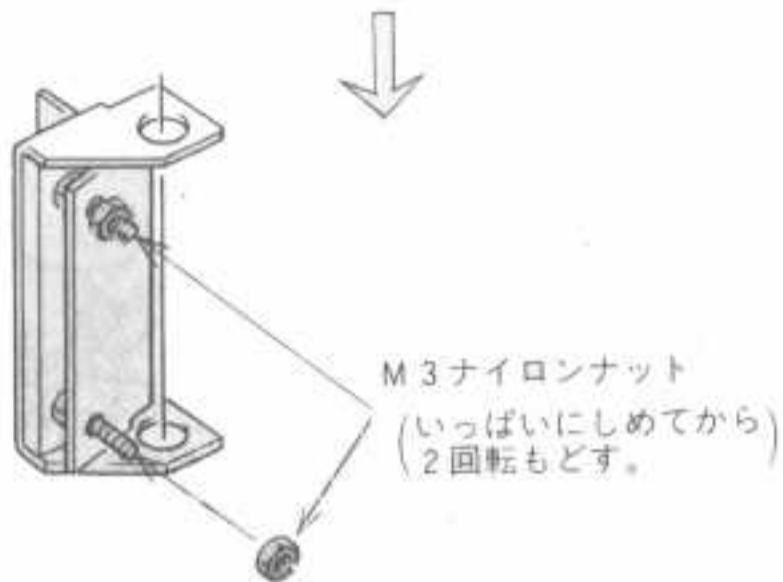
1/8 BUGGY RADIO CONTROL OFF ROAD RACE CAR







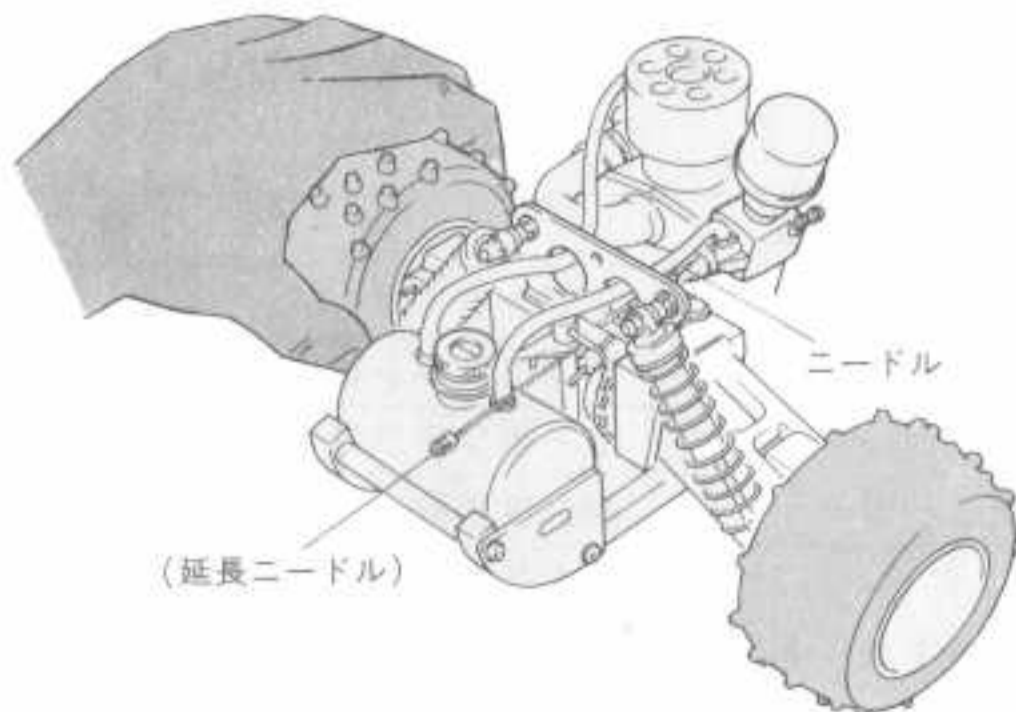
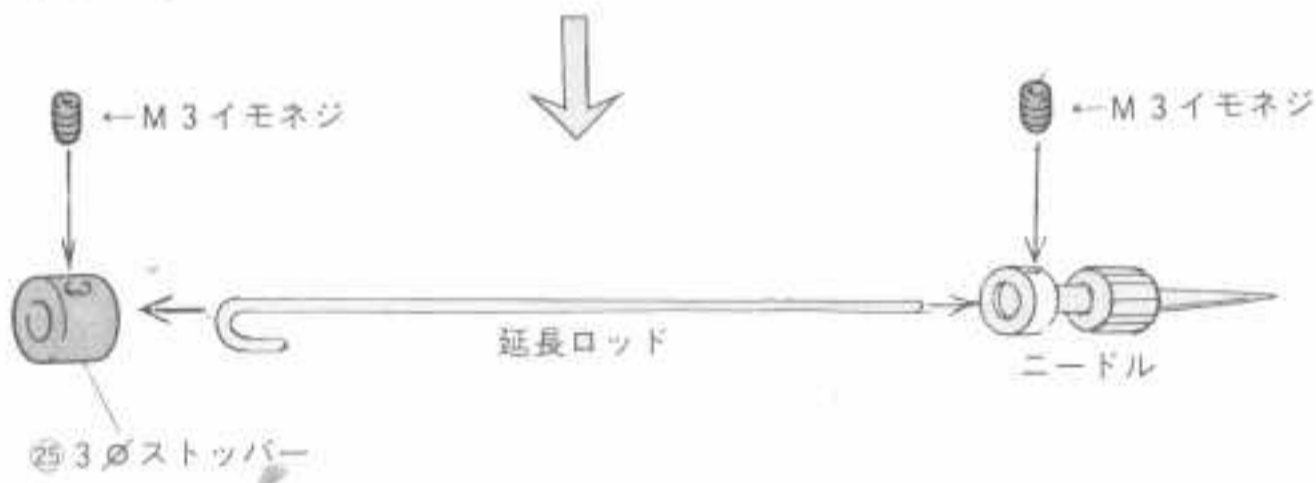
- 4.** 組立説明書5ページの⑧ブレーキキャリバーのくみつけ、の2の所で下図のようにM3ナイロンナットをいっぱいにしてから2回転位もどし、③⑧ブレーキパッド(B)が左右に少し遊ぶように、ナイロンナットをとりつけて下さい。このナイロンナットはブレーキパッド(B)が必要以上に左右に遊ばない役目をします。



- 5.** 組立説明書12ページの⑩ブレーキのリンケージの所で⑧⑩リンケージロッド(C)を右図と同じように曲げて下さい。



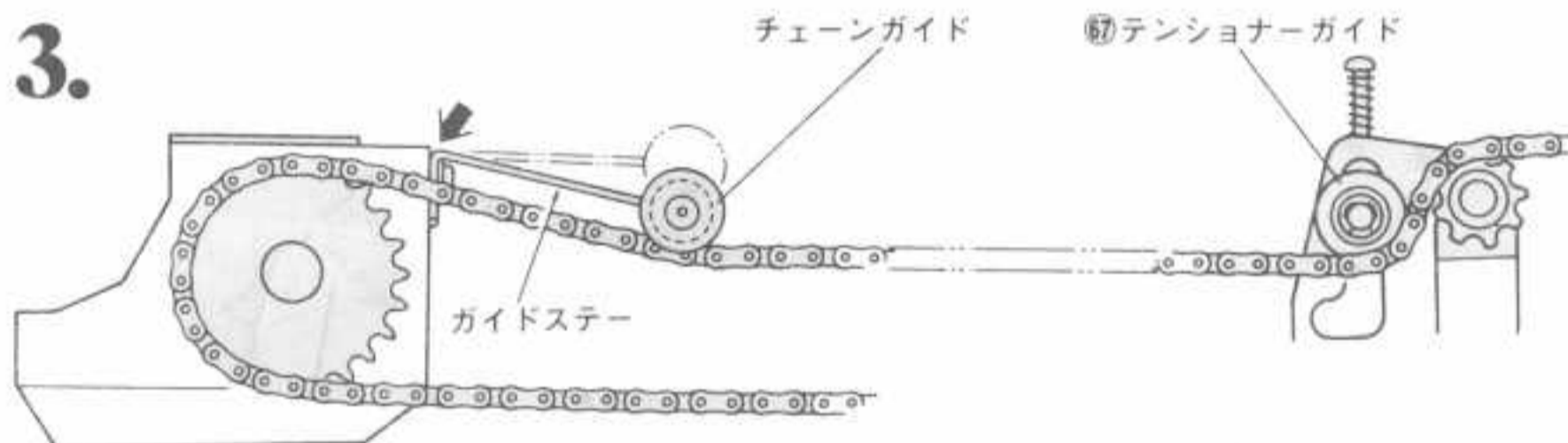
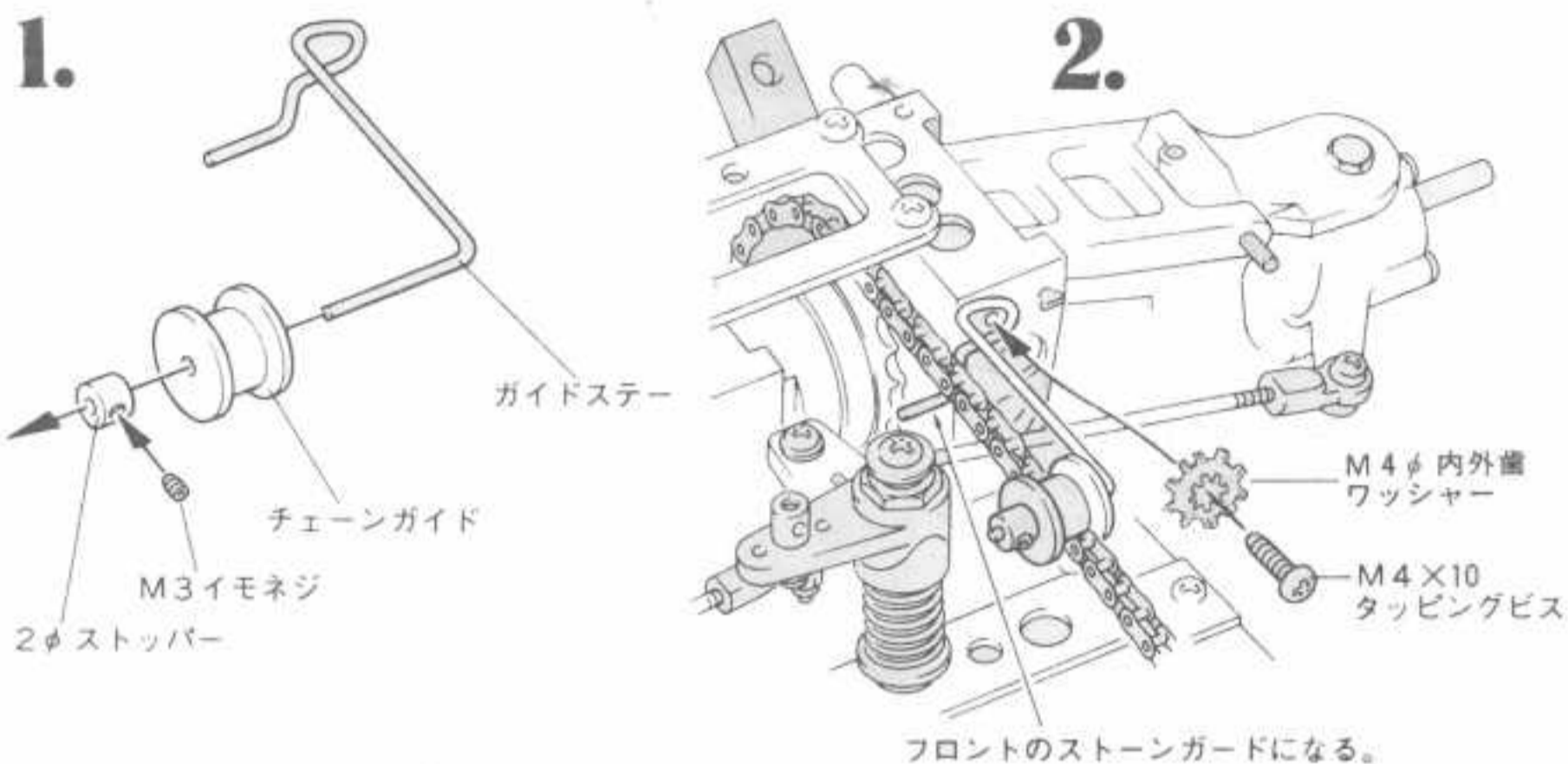
- 6.** エンジンをOS-21シリーズ使用で2K又は2Dキャブレターを使用する場合、ニードル調整が安全に出来るよう延長ニードルロッドを追加しました。下図のように組立、取付けして下さい。



# インテグラ4WD 補足説明書

〈チェーンガイドのとりつけ〉

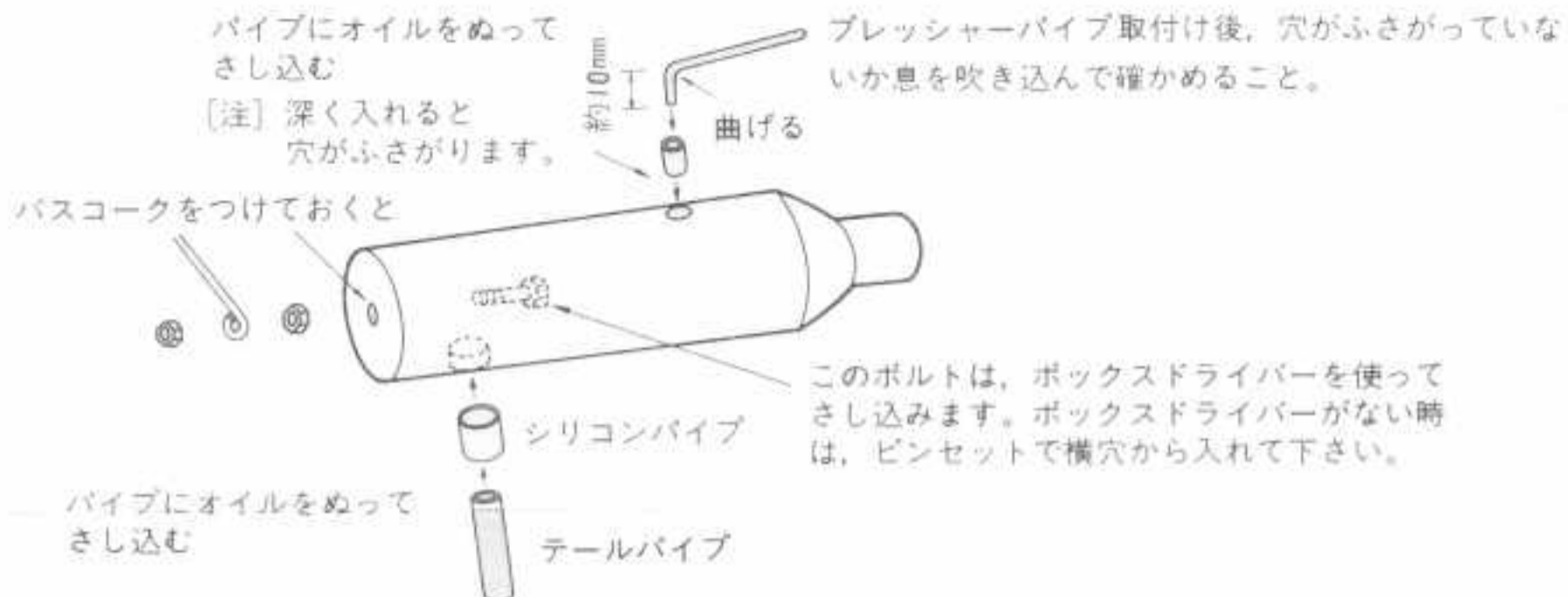
取扱説明書10ページ20図でチェーンをとりつけたら下図のようにチェーンガイドをとりつけて下さい。



※ガイドステーの←印のところを図のように少し下に曲げ、チェーンをチェーンガイドが常に押さえつけるよう、ガイドステーとテンショナーガイド67を調整し、チェーンがはずれないよう点検して下さい。

| 品番    | 部品名          | 内容   | 定価    | 送料  |
|-------|--------------|--|-------|-----|
| KC-43 | スパイクタイヤ      | ソフトタイプ   | 2,800 | 350 |
| KC-44 | マフラーマニホールド   | 側方エンジン専用   | 2,800 | 120 |
| KC-45 | スペシャルクラッチパーツ | カーボンテフロン製  | 1,300 | 120 |
| KC-46 | パイトンチューブ     | 耐久性抜群なマフラーチューブ   | 2,000 | 120 |
| KC-47 | チェーンガイドセット   | 2φストッパー、M4φ内外歯ワッシャー<br>ガイドステー、チェーンガイド、<br>M4×10タッピングビス 各1ヶ | 450   | 120 |

## KC-32 マフラーの組立方



## KC-31 マニホールドのつけ方

