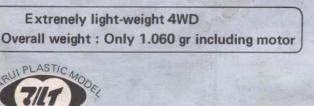
## THE SAMURAI

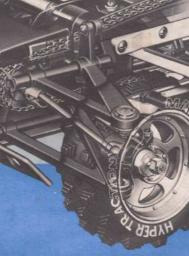
4WD

1/10 SCALE HIGH PERFORMANCE 4WHEEL DRIVE RADIO CONTROL

OFF-ROAD
RACING BUGGY







7.2 to 8.4 bottery pack (not included) with RS-540S motor

1/10 Electric R/C model No. 10

Racing baggy ≪THE SAMURAI 4WD≫





DOUBLE WISHBONE SYSTEM FRONT SUSPENSION / SWING ARM SYSTEM INDEPENDENT REAR SUSPENSION / FORWARD THREE STAGE SPEED CONTROL AND REVERSE ASSEMBLED SEALED TYPE SPEED CONTROLLER / DIECAST HEAT SINK FOR REFRIGERATE / THREE DIFFERENTIAL GEAR DRIVE SYSTEM / DURABLE NYLON SIDE GUARD / CHANGEABLE PINION GEAR RATIOS / DURABLE NYLON BIG BUMPER FOR SOFTEN SHOCK / HYPER TRACTION WART PATTERN SEMI PNEUMATIC RUBBER TIRES FRONT & REAR / ADJUSTABLE OIL FILLED MONO - SHOCK TYPE FRONT ABSORBER AND ADJUSTABLE OIL FILLED REAR SHOCK ABSORBERS / DRIVER FIGURE

TOKYO MARUI PLASTIC MODEL CO., LTD.

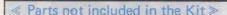
### HIGH PERFORMANCE R/C OFF-ROAD RACING BUGGY





### THE SAMURAI 4W





2-channel proportional controller

●7.2~8.4 VNi-Cd racing battery

Set trim levers at

their neutral

positions.

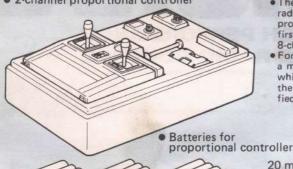
Transmitter

@ Set levers at their neutral

positions.

@ Extend the antenna

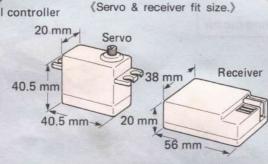
1 Install batteries



 The Model uses a 2-channel, proportional system radio controll mechanism. Most regular 2-channel proportional controllers may be used, but test first since some receivers and servoes of 3- to

a mini-servo and mini-receiver are recommended, which are best suited with the Model and allows the best performance. The overall weight specified is with the mini-servo and - receiver.

8-channel types do not fit. • For those who are going to purchase a controller,



 Use a 7.2~8.4 V Ni-Cd racing battery which may be recharged up to 300 times. Charging for normal battery requires 15 to 16 hours but quick-charge types using a 12V battery such as the cigarette lighter power supply requiring only Battery Pack (8.4 V) will 15 to 20 minutes are also available. soon be available from Marui.

#### ≪ Radio Control Unit ≫ Preparation and checking the neutral position ≫

Receiver

Special charger

The Hyper Racing

@ Extend the antenna

- Install batteries in the transmitter and receiver.
- Extend the transmitter and receiver antennas.
- Turn the transmitter switch ON. (Always turn ON the transmitter switch first.)
- @ Turn the receiver switch ON.
- Set trim levers at their neutral positions.
- @ Set the levers at their neutral positions. (The servo horns should stop at their neutral positions.)
- Operate the levers and check that servo horns move accordingly.
  - Turn the receiver switch OFF first and then the transmitter switch when the test is complete.
    - 4 Turn the switch ON
    - The servo horns stop at their neutral positions
      - •Refer to the radio control equipment instructions for further details.

#### Tools Required for Assembly >

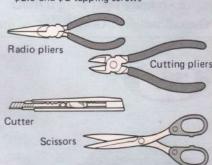
Phillips type screwdrivers are shown in actual sizes.

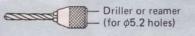


⊕ Screwdriver (Large) for \$\phi\$3 screws and φ3 tapping screws



Screwdriver (Middle) for φ2.6 and φ2 tapping screws







#### ≪ Tools included in the Kit ≫

For \$\phi\$ 2 nut (not used) M3 WRENCH×1 For ø4 nylon nut Pillow-ball (small) for φ3 nut and φ3 nylon nut For ≠2.6mm nut

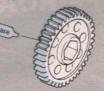
(not used) ø4 butt screw ø3 butt screw Hexagonal wrench

#### « Read the following instructions carefully before assembly »

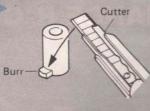
· Read the entire assembly instructions before beginning assembly.

Turn the switch ON.

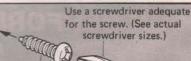
- Screws and some other parts are shown in actual sizes to avoid wrong useage.
- · Some screws, nuts, and washers will be left over as more than required numbers are included in the Kit. Keep them as spare parts.
- Parts lists are provided separately. Always keep them handy for convenience in finding a correct part.
- For completing a high-performance model car, follow the instructions in order and never be hasty.



· A Grease mark indicates a position where the grease included in the Kit must be applied. Never use any other grease which may result in a cracked polycarbonate gear box. Do not apply the grease on moving parts that are exposed. especially on the sprocket and chains, since it may cause mulfanction due to accumulated sand or other foreign matters.



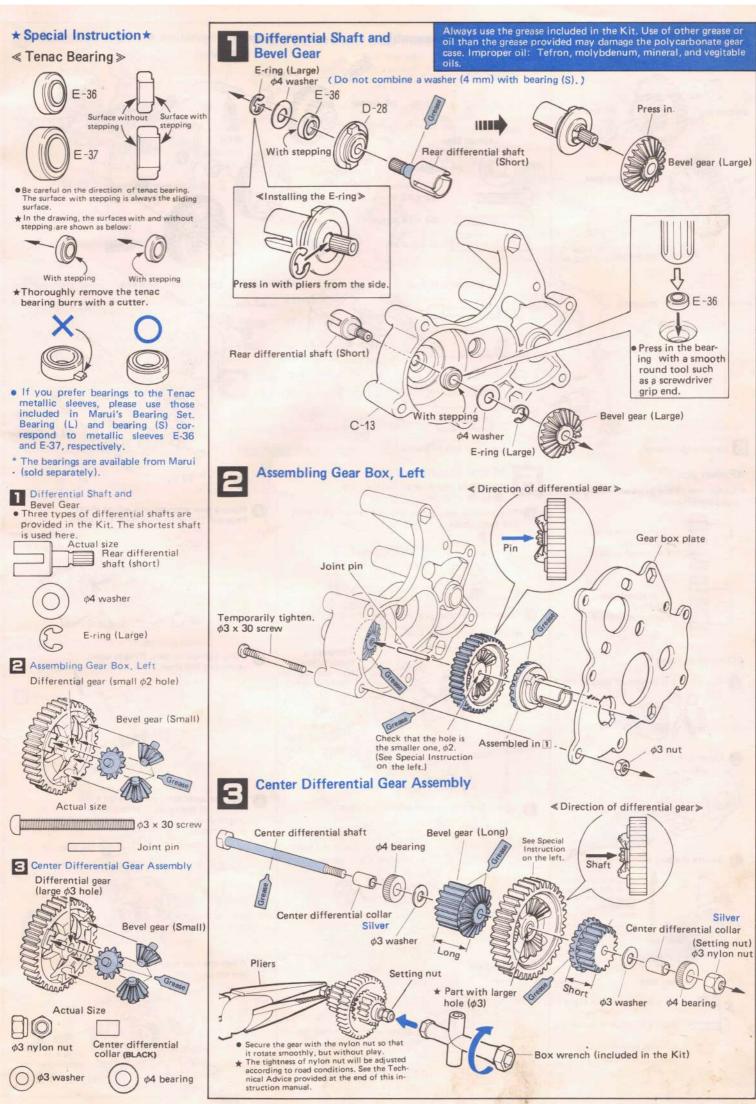
• Thoroughly remove plastic part burrs with a cutter. Especially, completely remove burrs on strengthened nylon parts. Otherwise, they may impair driving performance. (Be careful not to cut your fingers with the cutter.)

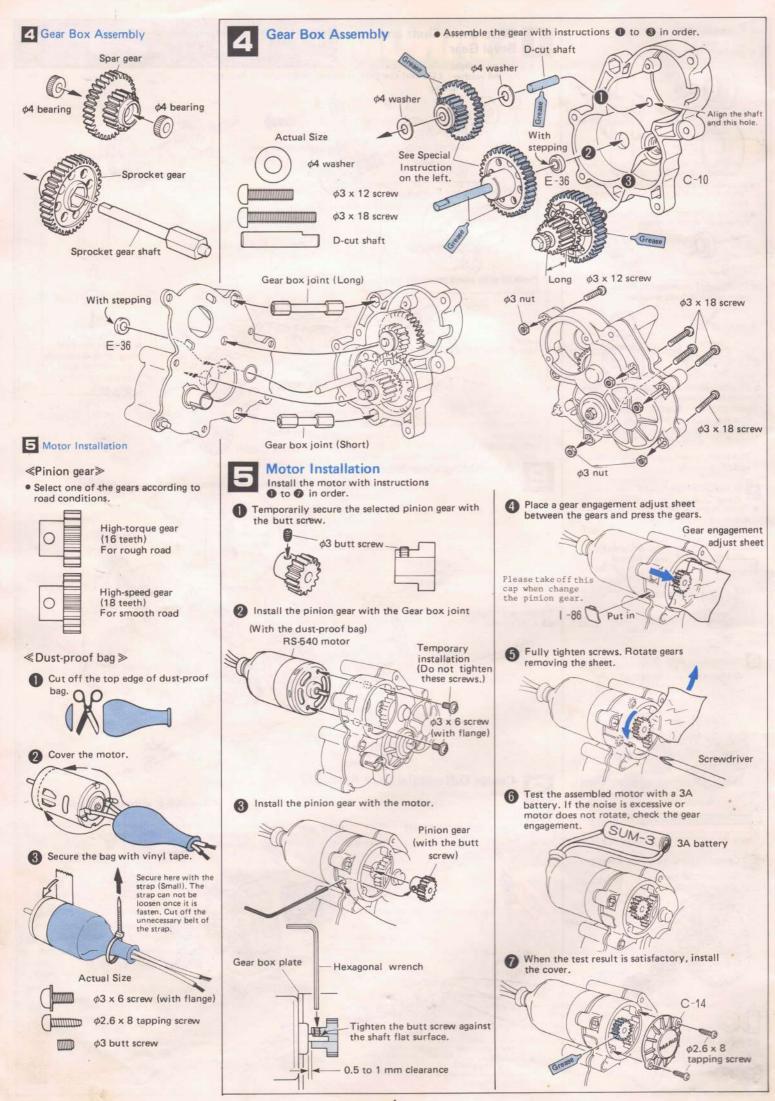


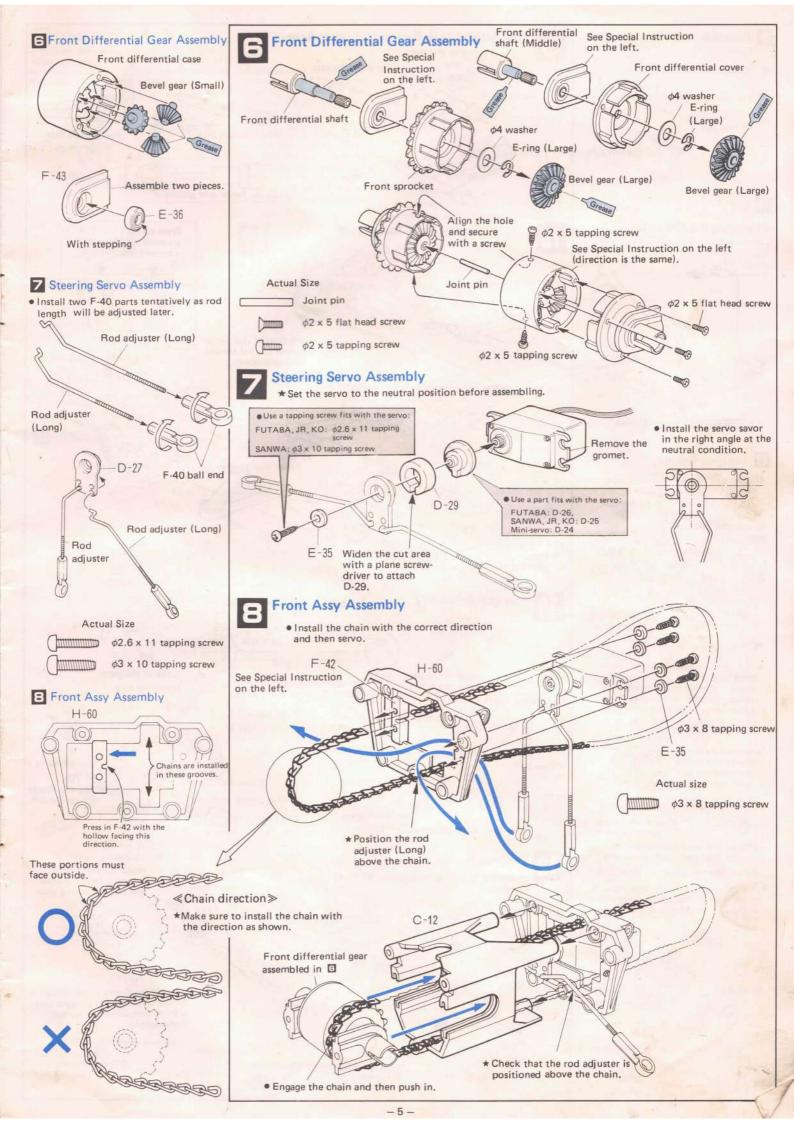
Tapping screw

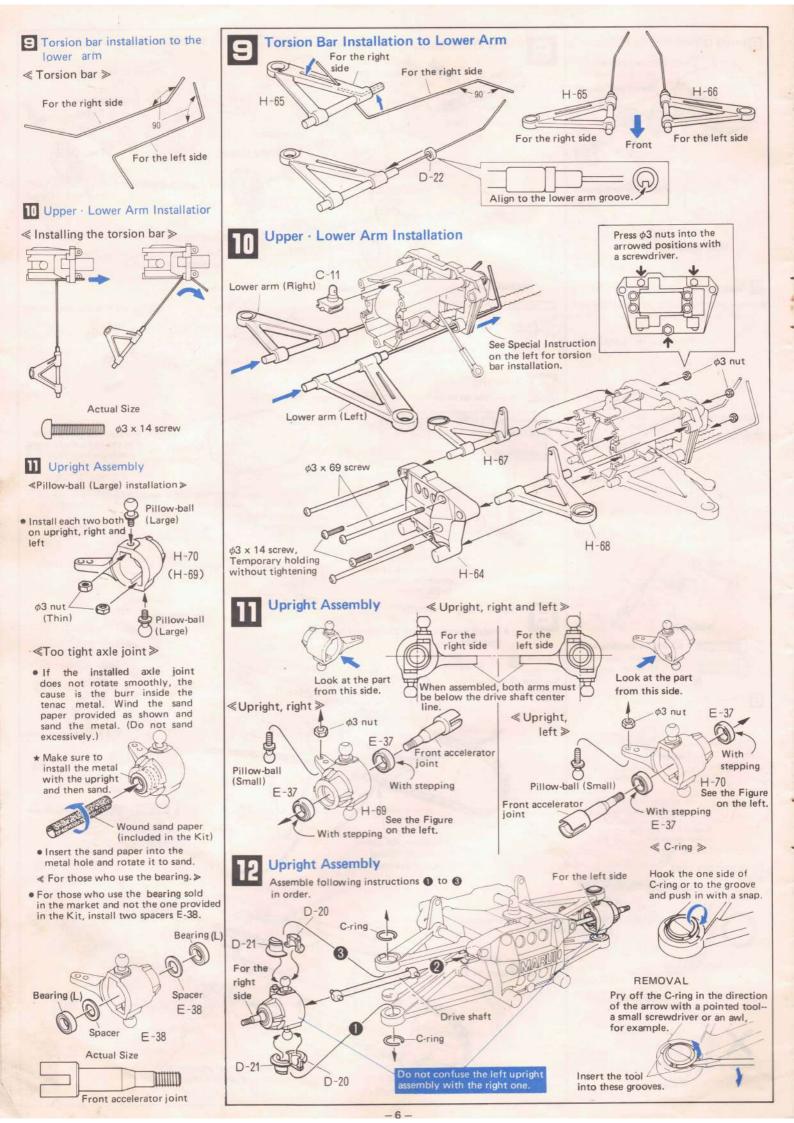
 Many tapping screws used for the Model require high torque. Use a screwdriver fits for the screw head.

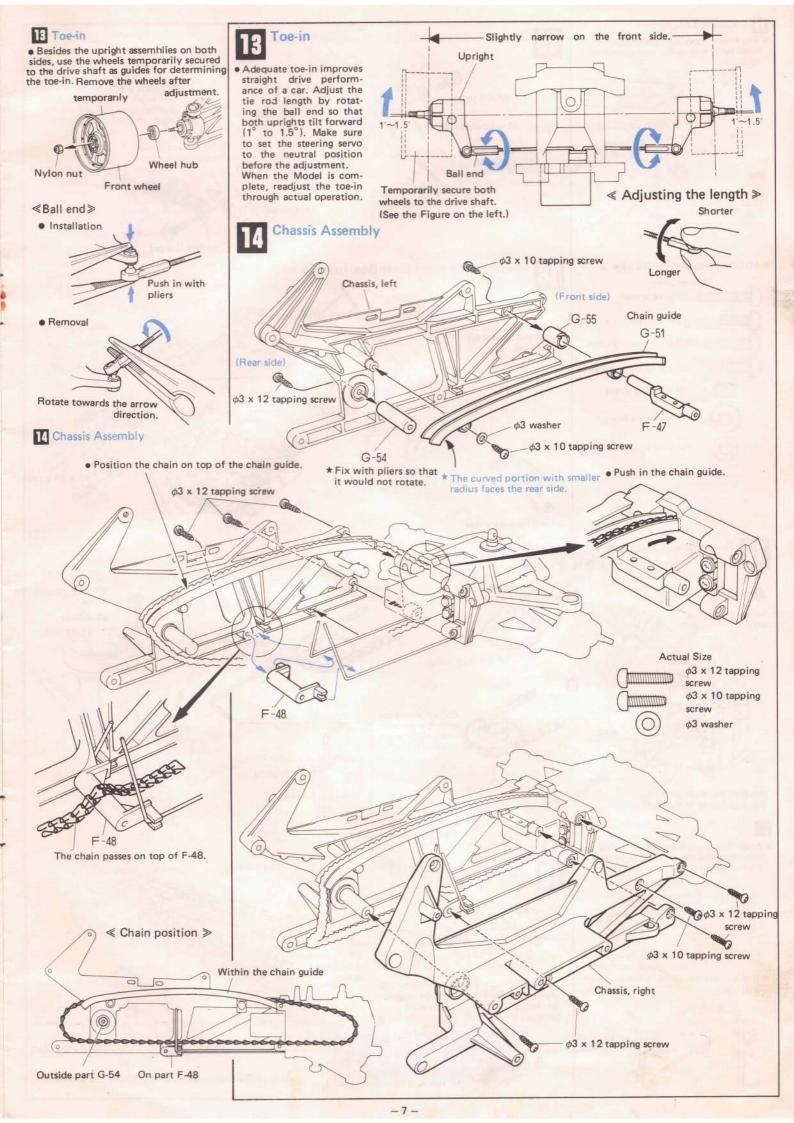
Release the turning power on the screwdriver when the screw no more rotates easily. If excessive torque has been applied and the tapping screw does not holds parts well, do not remove it but apply an instantaneous bonding agent.

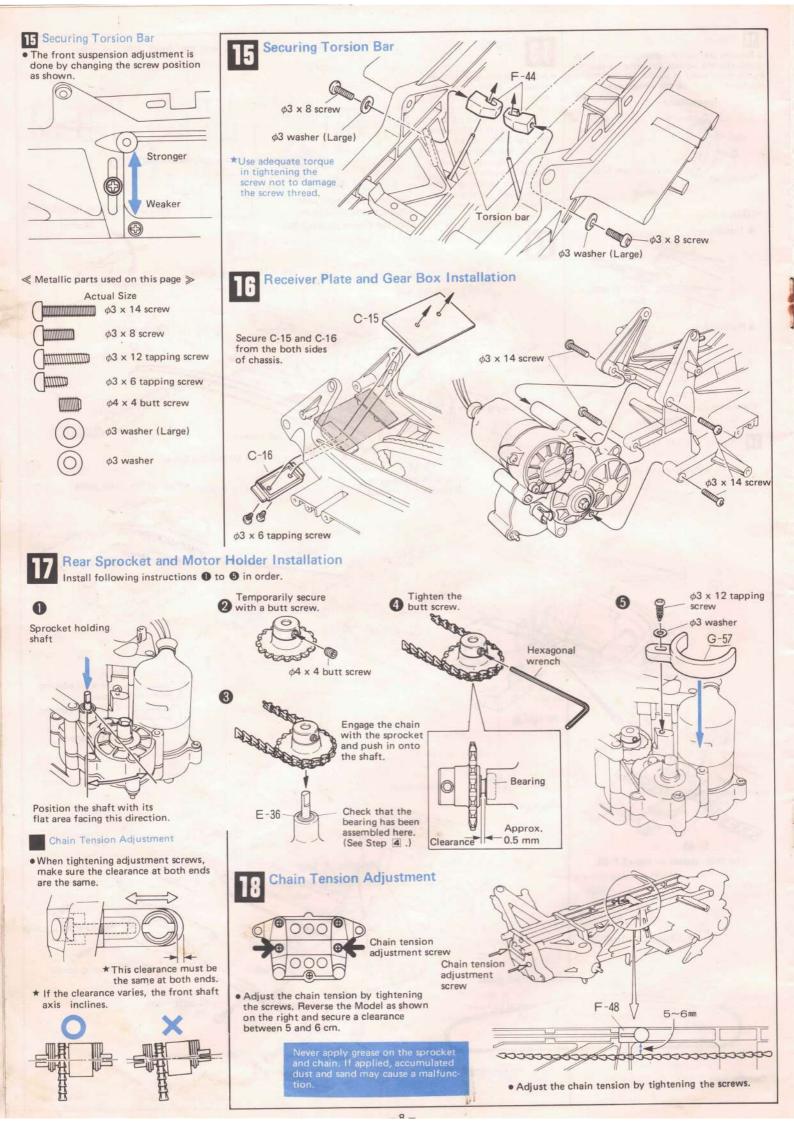


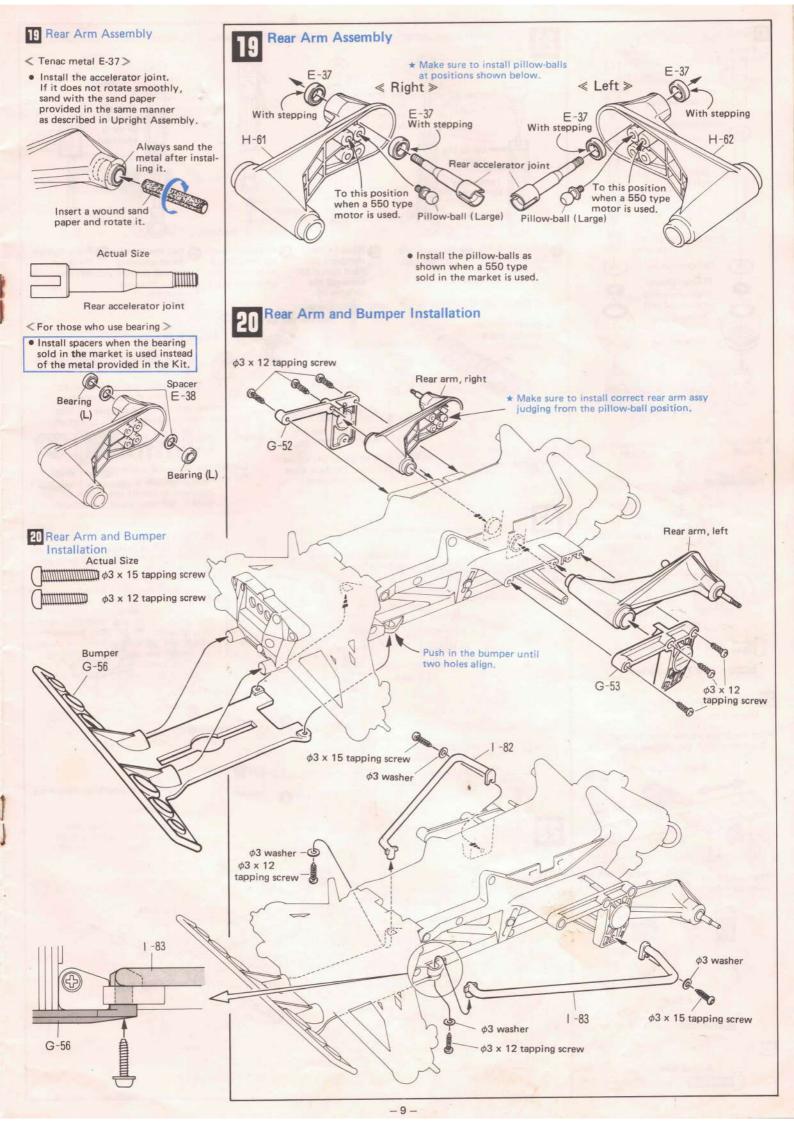


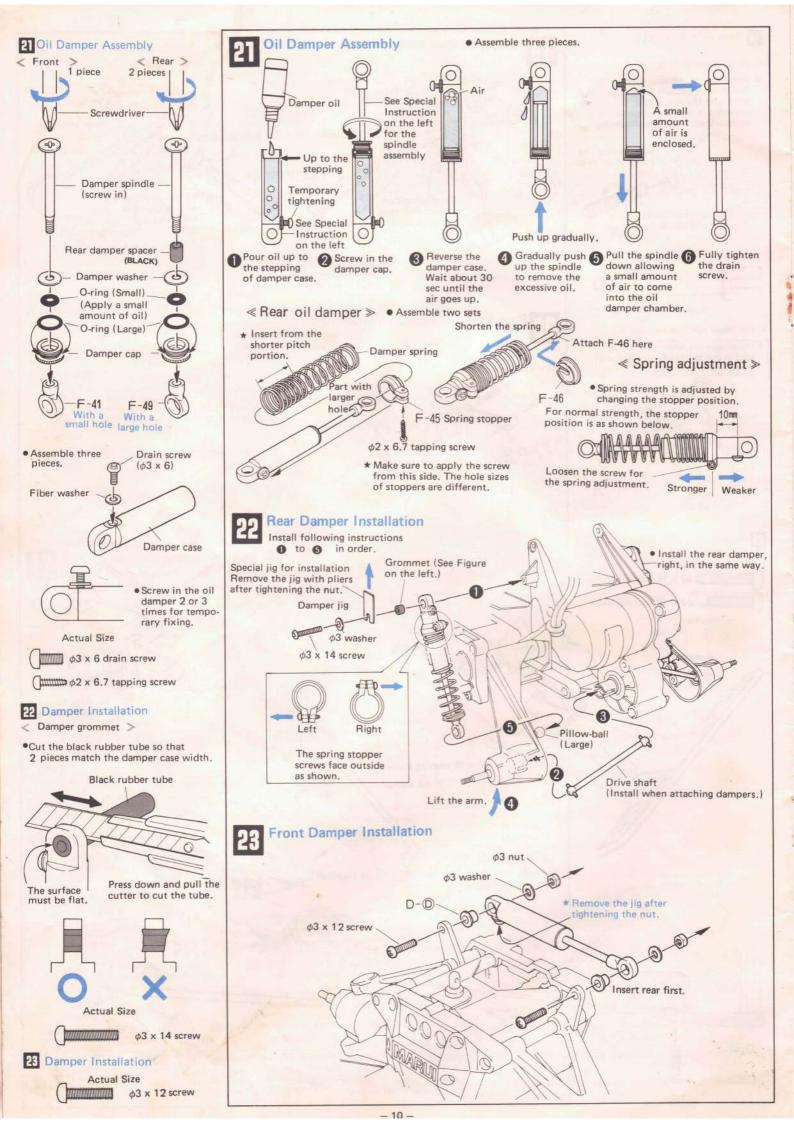


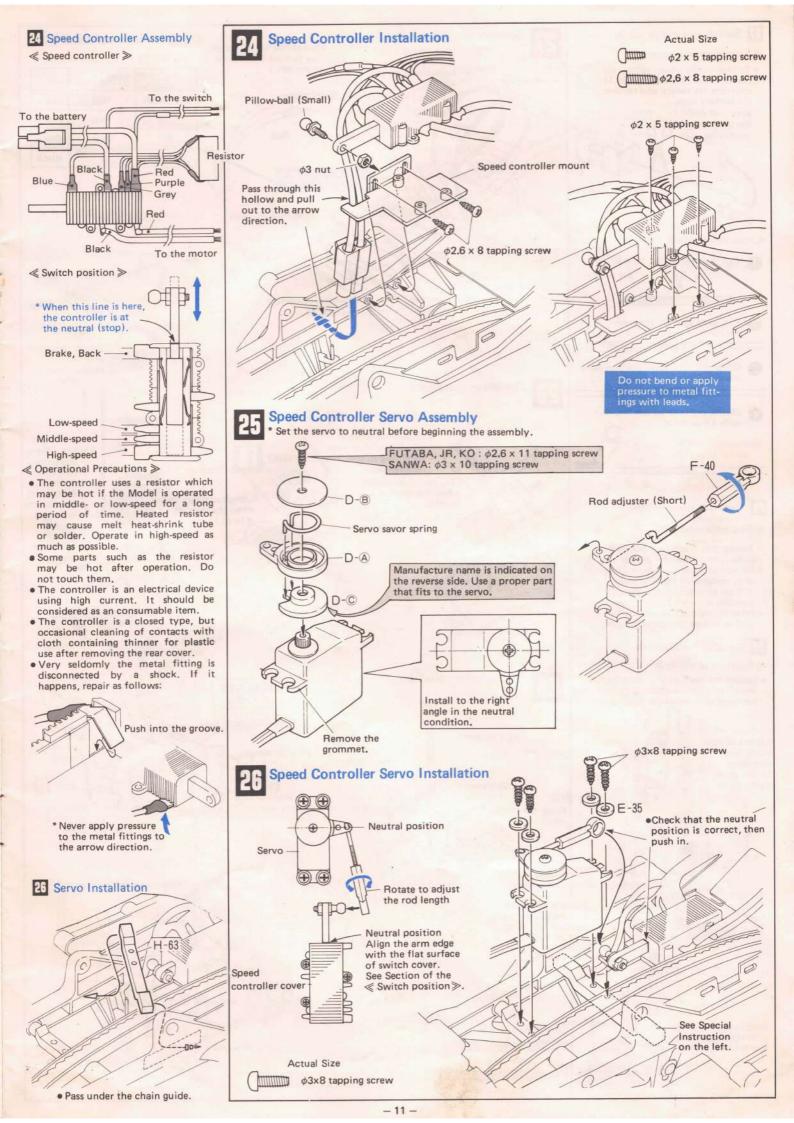


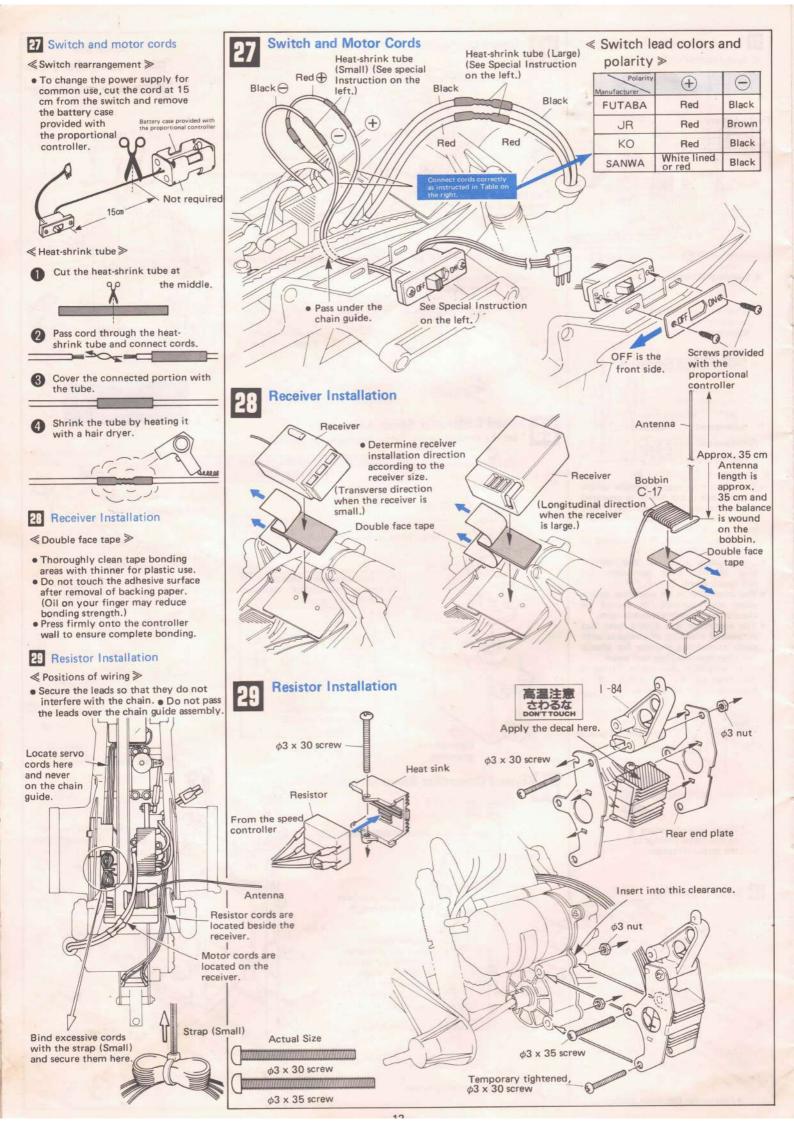


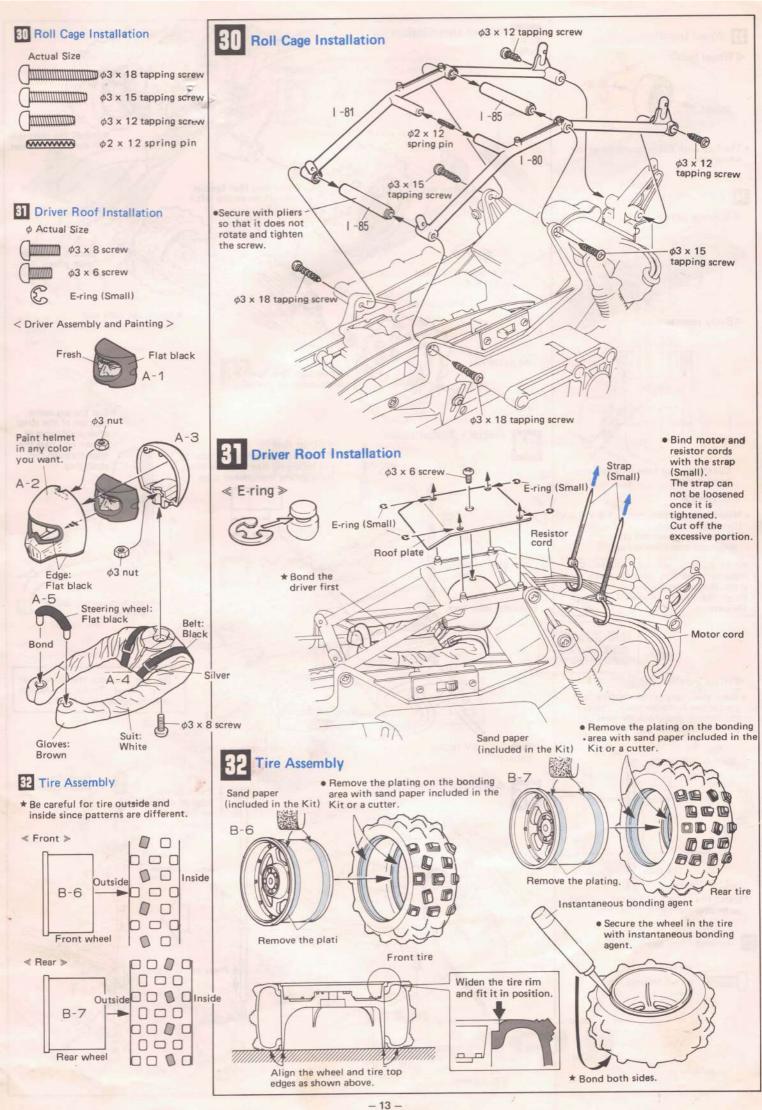


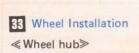










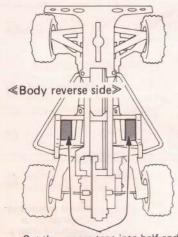




 The face with slide stopper faces the wheel side.

#### 34 Battery Installation

≪Sponge tape≫



Cut the sponge tape into half and bond it here.

≪Battery≫

 Nicad racing battery pack (7.2 V-8.4 V) (See P.2 for details.)

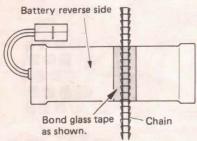
\*Always disconnect the connector when not operating the car.

When battery voltage reduces, the receiver does not operate correctly since the power supply is common. When the speed is reduced, recharge the battery.

注意 PUT OUT CONNECTOR AFTER DRIVING 走行後、バッテリーコネクターをはすす

#### ≪Glass tape≫

 Bond glass tape on the battery for protection from the chain. Install the battery and check the area to be protected with glass tape.

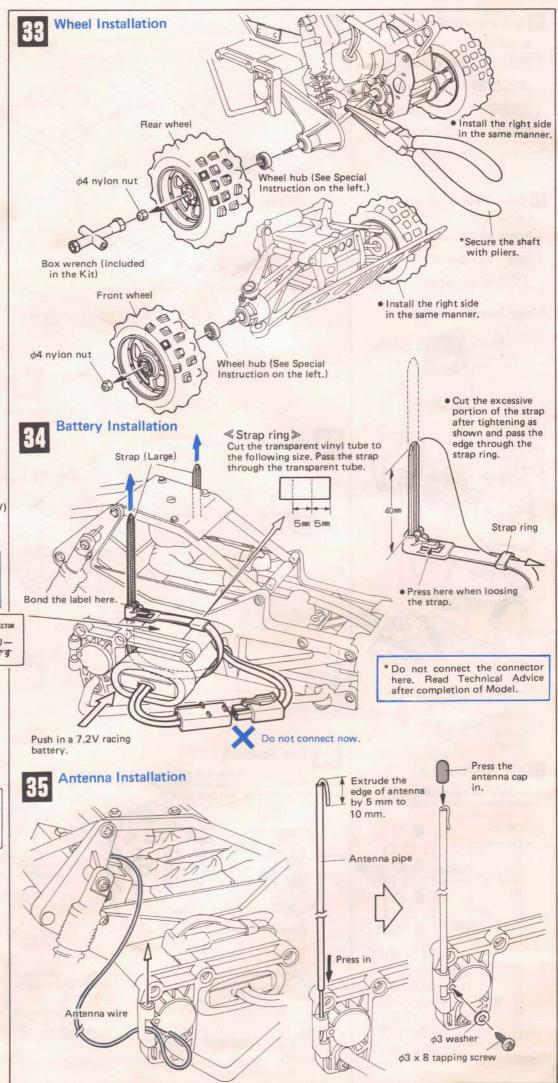


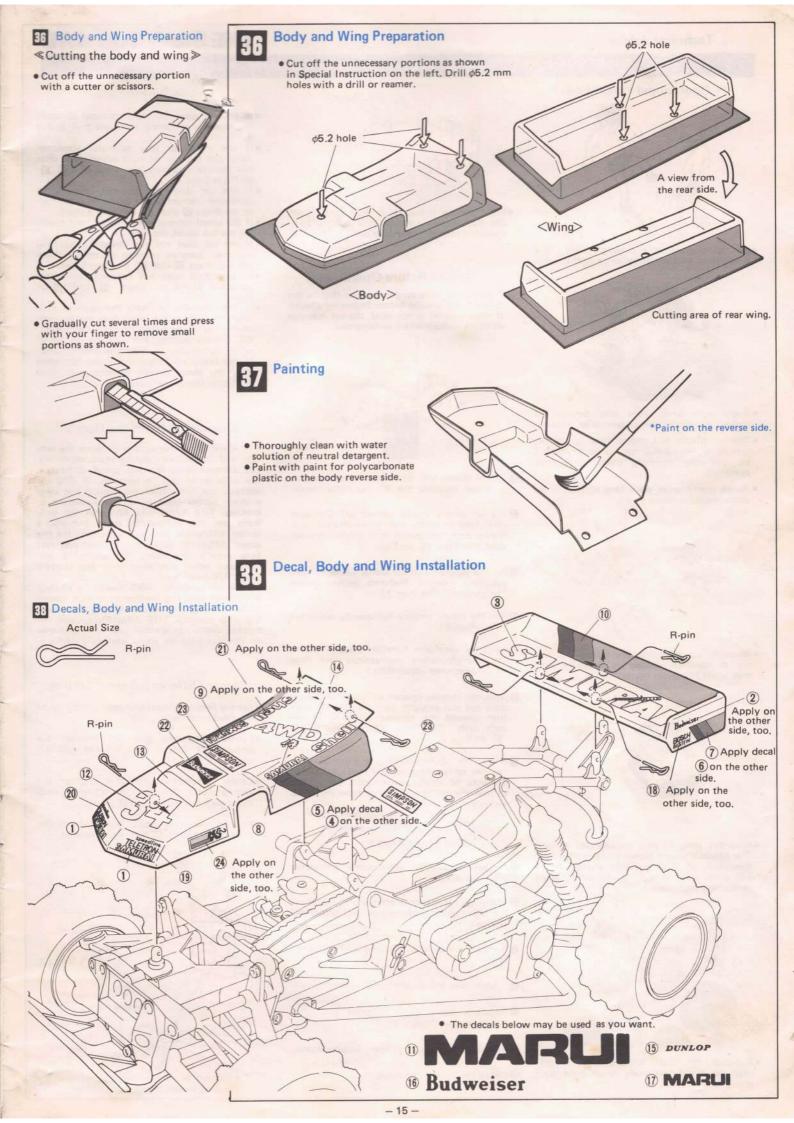
\*Install the battery and check the area to be protected with glass tape.

#### 35 Antenna Installation

Actual size

φ3 x 8 tapping screw





#### **THE SAMURAI 4WD**

THE SAMURAI 4WD runs at a high-speed. Special care must be paid when operating.

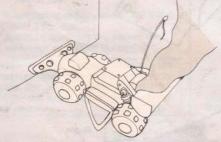
#### ≪ Operational Precautions ≫



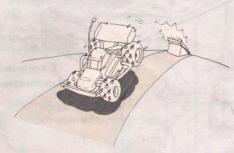
 Do not operate in a crowded place, in a presence of small children, or on traffic roads.



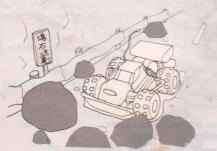
- Avoid puddles as water may damage the motor or proportional controller circuits.
- The controller and motor heat up during operation. Be careful not to burn yourself by carelessly touching them soon after operation.
- Avoid grassy areas since long grass may become wound on drive shafts.



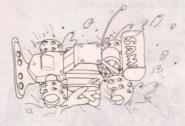
 When the car encounters and obstacle, do not try to continue driving as excessive load may result in a burnt motor.



Incorrect jumping may damage the chassis.
 The Model's weight balance allows it to land beautifully if it is travelling straight at its full speed prior to a jump. (However, avoid excessively high jump.)



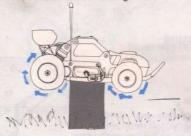
 Although the Model is designed as an offroad car, avoid excessively rough areas with many sizable stones.



 When the car is trapped in deep sand, return the transmitter levers to their neutral positions and turn the controller off.

#### ≪ Checks Before Operation ≫

Place the car on a proper stand so that no tire contacts the ground before beginning checks. If such a stand is not used, the car may run all of the sudden which is dangerous.



- Are all screws and nuts tight? Check.especially those securing the driving components.
- ② Are all wiring firmly connected? Damaged vinyl tape or solder may cause short-circuit. Repair such connection with insulation vinyl tape. (See Step ② on Page 12.)
- On the proportional controller batteries have sufficient power? Reduced power causes "no control." (See Page 2.)
- (34 Is the motor battery sufficiently recharged? (See Page 2.)
- Does the controller function sharply? (Refer the manufacturer's instructions and Page 11 for controller adjustment.)
- ⑤ Does the steering operate correctly? If the car does not run straight, turn the steering lever trim toward the opposit direction of the car's drift. (See Steps ☑ on Page 5 and ⑥ on Page 7.
- After the above checks, test-run the car for one to two minutes and check for faulty contacts of drive components. Be careful so that the car does not drop from the stand and run.

### ≪ Checks and Maintenance after Operation

- Always disconnect the battery connector after operation.
- Thorough maintenance after use is important for maintaining performance and prolonged service life.
- Remove accumulated dirt and sand completely.
- Always turn the proportional controller off.
- Regularly apply grease to gears and other moving parts.
- @ Replace damper oil after every 20 operations.
- O Check for loosen screws and nuts.

#### ▼ Troubleshooting >

- If the car does not move forward although the motor is operating, see Pages 3, 4, 5, and 8.
- If the motor or gear generates abnormal noise and the rear or front wheel chain does not operate smoothly, see Steps 
  ☐ and ☐ on Pages 4 and 8.
- If the car does not respond properly to controller instructions or performs abnormally, see Steps 

  and 

  on Pages 2 and 5.
- If the speed control abnormal without reaching the full speed, see Page 11.
- If the car does not run straight or steering response ravies on turns to the right and the left, see Steps 

  and 

  on Pages 5 and 7.
  If the chain does not rotate or generates
- If the chain does not rotate or generates abnormal sound, see Steps and on Page 8.
- If the controller is likely the cause of malfunction such as the servo does not operate, check: (1) if the battery power is sufficient, (2) battery wiring, and (3) the wiring of servo, connector, or motor is disconnected. If the faulty operation is still not corrected after the above checks, contact your radio controller dealer for repair.

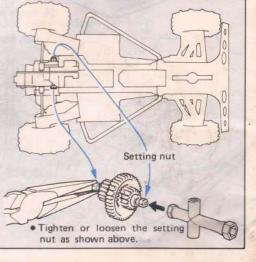
#### < Center Differential Gear >

Tire speed difference occurs between the outside and inside tires during sharp cornering. For compensating the tire speed difference, the differential gear is required. A R/C car without the differential gear would not clear a sharp corner because of under-steering or braking. THE SAMURAI 4WD has not only front and rear differential gears, but also a center differential gear to compensate the tire speed difference between the front and rear tires greatly improving the cornering performance when compared with the conventional R/C model cars.

tional R/C model cars.
In the conventional 4WD model cars, their front tires rotate at unnecessarily high speeds often causing the under-steering in sharp, high-grip corners. THE SAMURAI, with the built-in center differential gear, will give you satisfaction with its sharp cornering performance.

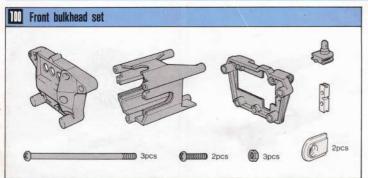
#### ≪ Center Differential Gear Setting≫

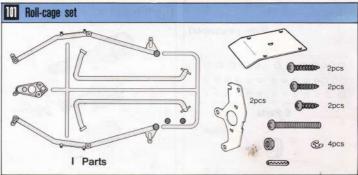
- Set the central differential gear according to the road conditions.
- Center differential gear ON (Loosen the setting nut): Effective for flat and rigid offroad.
- Center differential gear OFF (Tighten the setting nut): Effective for off-roads with many gaps or sandy off-road.
- For sprint competitions, setting the center differential gear to OFF is recommended.

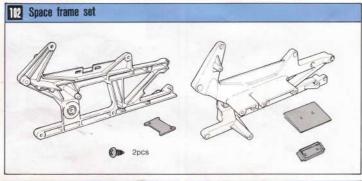


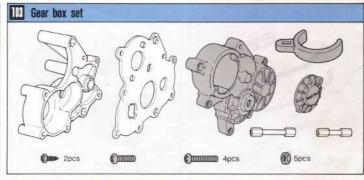
# RCTHE SAMURAI 4WD CONSPARE PARTS LIST

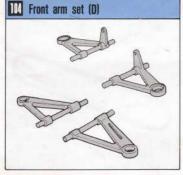
## MARUI RADIO CONTROL CAR

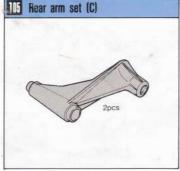






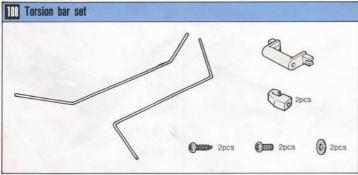






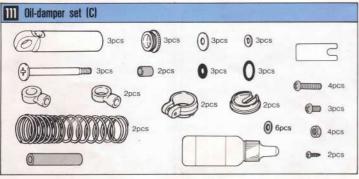


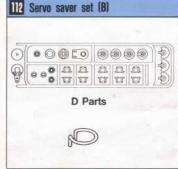














## RCTHE SAMURAI 4WD

## **MARUI RADIO CONTROL CAR**



