1/10 SCALE RADIO CONTROL OFF-ROAD RACING BUGGY

READY TO ASSEMBLE RADIO CONTROL OFF-ROAD RACING CAR MODEL KIT/REQUIRES TWO CHANNEL, TWO SERVO CONTROL EQUIPMENT AND 7.2V RACING PACK Ni-Cd BATTERY/INCLUDES MABUCHI RS540S POWERFUL MOTOR

## With RS-540S High Speed Motor

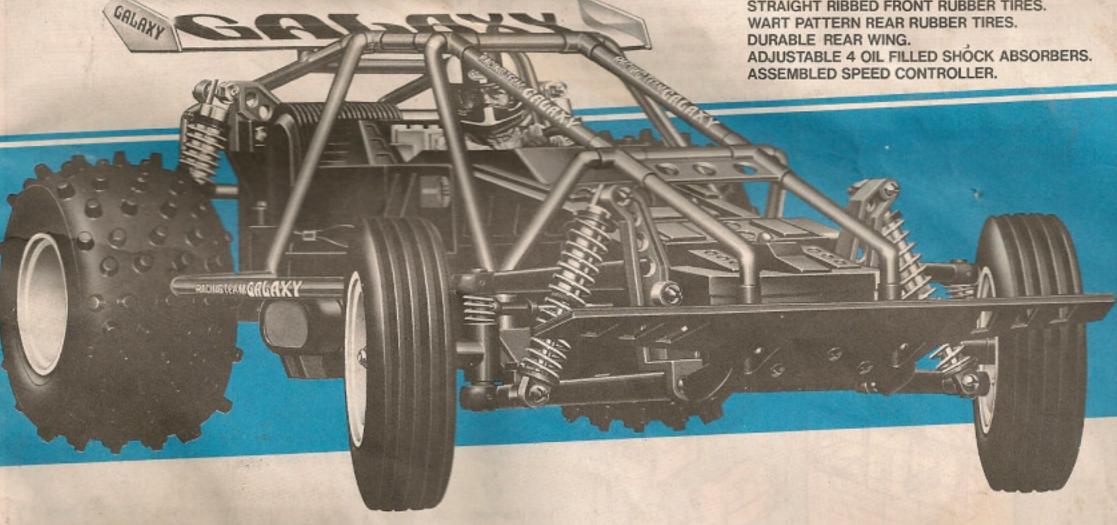
1/10 Size, Electrically Powered, Radio Controlled Buggy Racing Model





# MODELLING SKILLS HELPFUL IF UNDER 10 YEARS OF AGE.

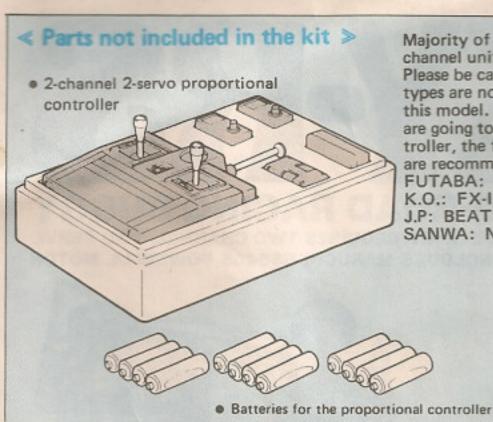
DIFFERENTIAL GEAR DRIVE SYSTEM. CHANGEABLE PINION GEAR RATIOS. STRAIGHT RIBBED FRONT RUBBER TIRES. WART PATTERN REAR RUBBER TIRES. DURABLE REAR WING.



Tokyo Marui Plastic Model Co., Ltd.

# RACING CAR HIGH PERFORMANCE





Majority of general type 2channel unit is acceptable. Please be careful as some types are not suitable for this model. For those who are going to purchase a controller, the following models are recommended:

FUTABA: ATTACK, MAGNUM

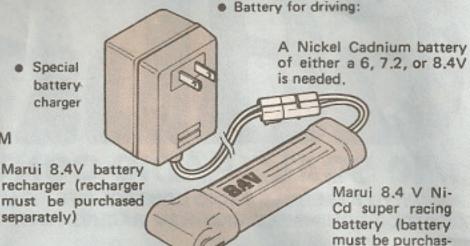
Unplug the

after use.

battery connector

K.O.: FX-II EX-II J.P: BEAT 2

SANWA: NEW DASH S



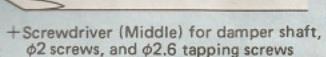
6 to 8.4V Ni-Cd battery can be used to power the car. This battery can be recharged over 300 times. One type of recharger uses 100V household current to charges the battery in 4 to 16 hours. The other, a quick type recharger, uses a car's 12V cigarette lighter as a power source to charge the battery in 15 to 20 minutes.

# ≪ Tools required for assembly >>

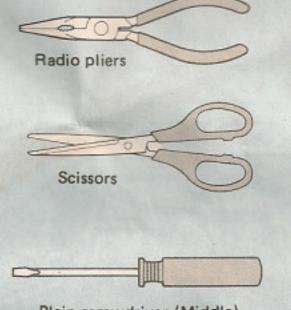
Only phillips type screwdrivers are shown in actual sizes.

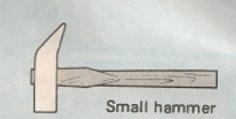


 + Screwdriver (Large) for φ3 screws and \$\phi 3\$ tapping screws



This kit includes many tapping screws. Use the proper screwdriver for tapping screws. Use adequate torque to tighten screws. Release turning pressure on the screwdriver when the screw becomes tight and does not rotate any more. Be careful not to damage screws by applying too much torque.





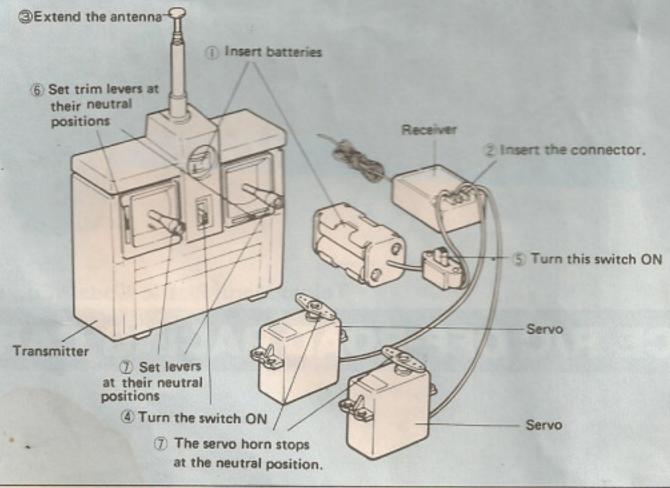
Cutting pliers

Cutter

ed separately)

Plain screwdriver (Middle)

# ≪ Radio control unit ≥



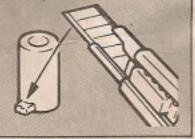
This model uses a 2-channel 2-servo digital method radio control mechanism. Any maker's brand may be used. However, please note some types of controllers have more than 3 channels, and they cannot be utilized for this kit's receiver and servo.

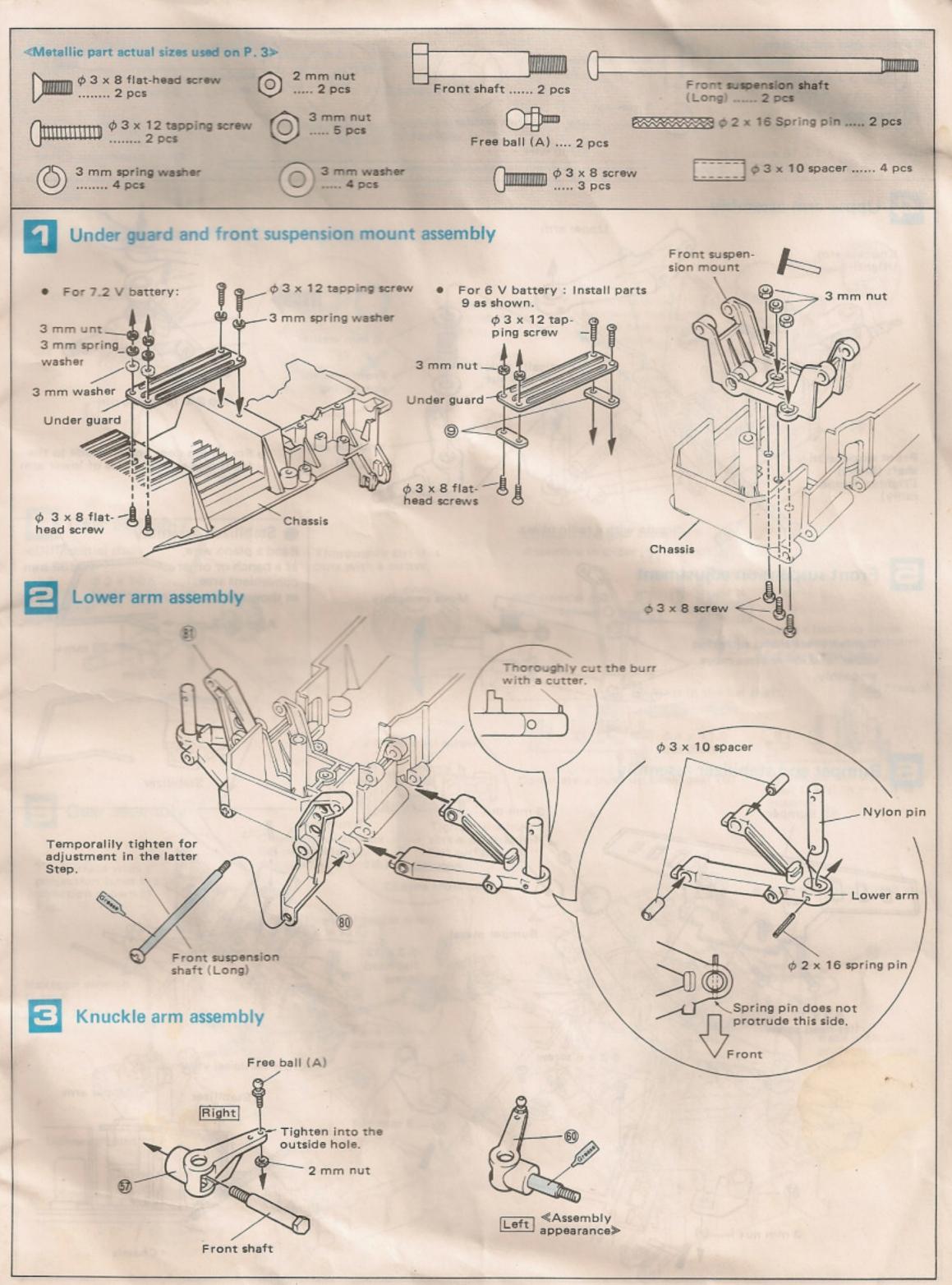
- Check the 2-channel proportional controller for correct operations as follows:
- 1 Insert batteries in the transmitter and receiver.
- 2 Connect the receiver's power and servo leads to the receiver.
- 3 Extend the transmitter antenna.
- 5 Turn this switch ON (4) Turn ON the transmitter switch, (Always turn ON the transmitter switch.)
  - 5 Turn ON the receiver switch.
  - 6 Set the trim levers at their neutral positions.
  - 7) Set the levers at their neutral positions. (The servo horns should stop at their neutral positions.)
  - ® Check servoes operation by moving the levers.
  - 9 Turn OFF the receiver first and then the transmitter when the test is complete. Refer to the radio control equipment instructions

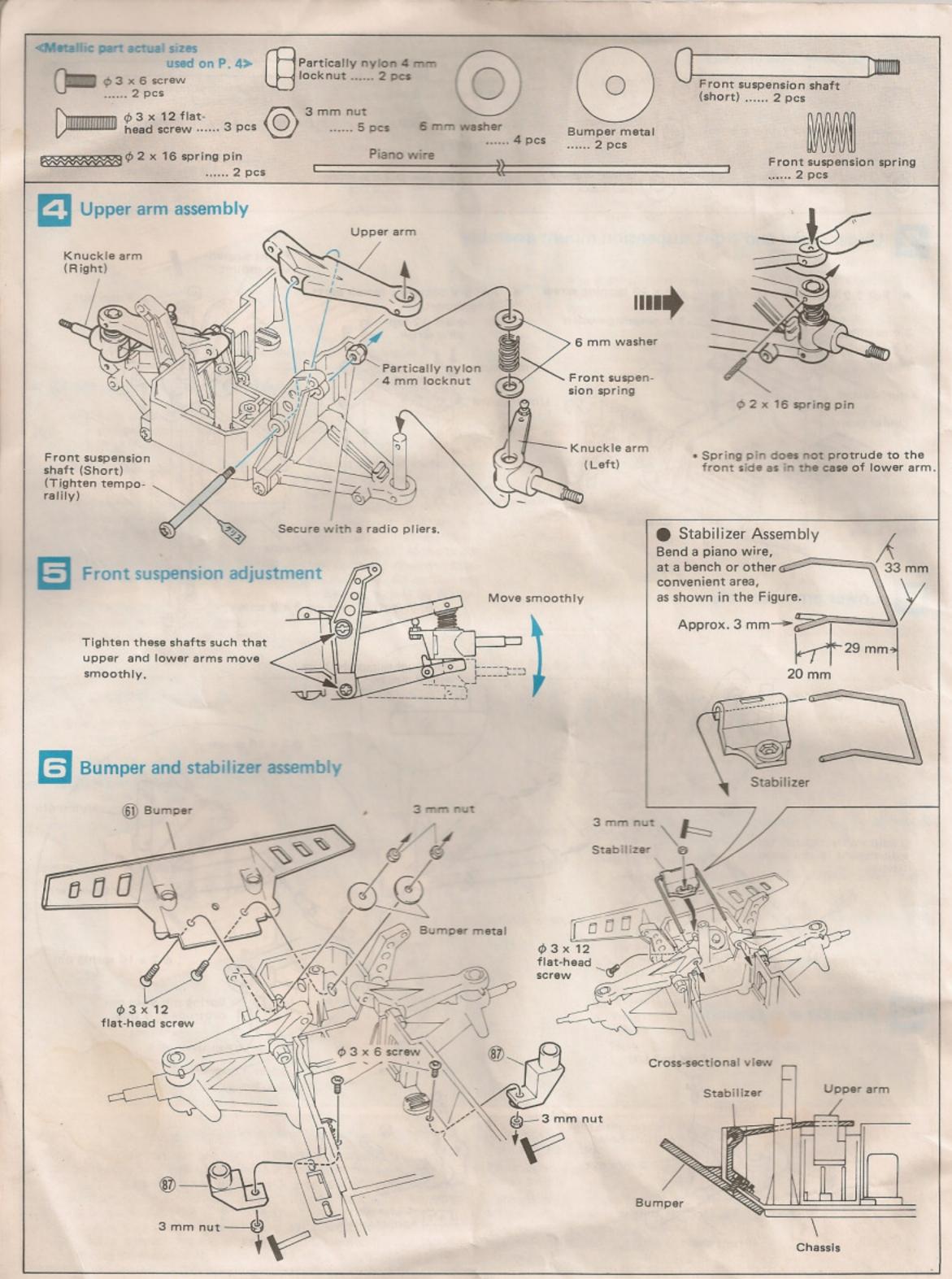
for further details.

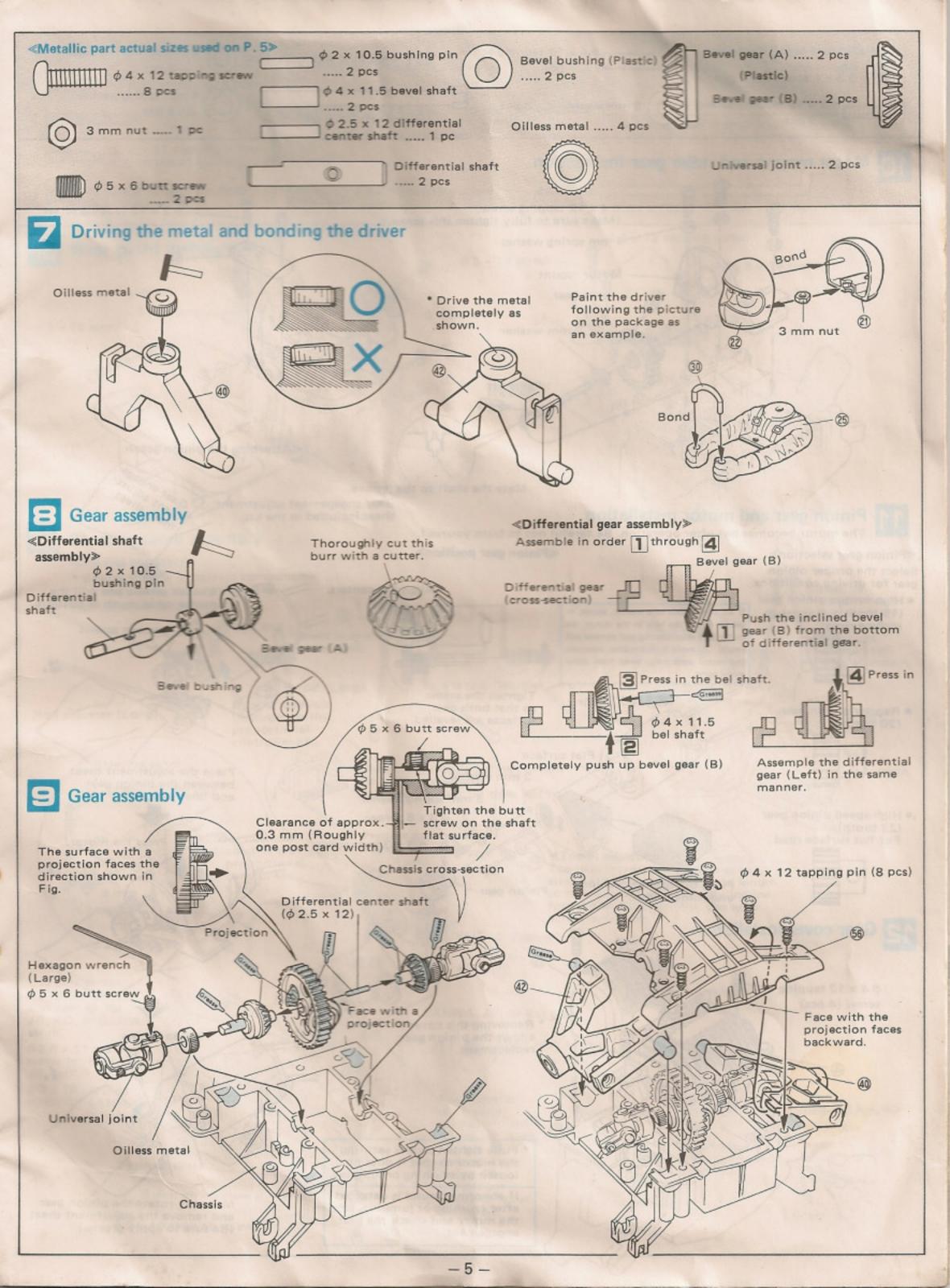
#### \* Read the following instructions carefully before assembly

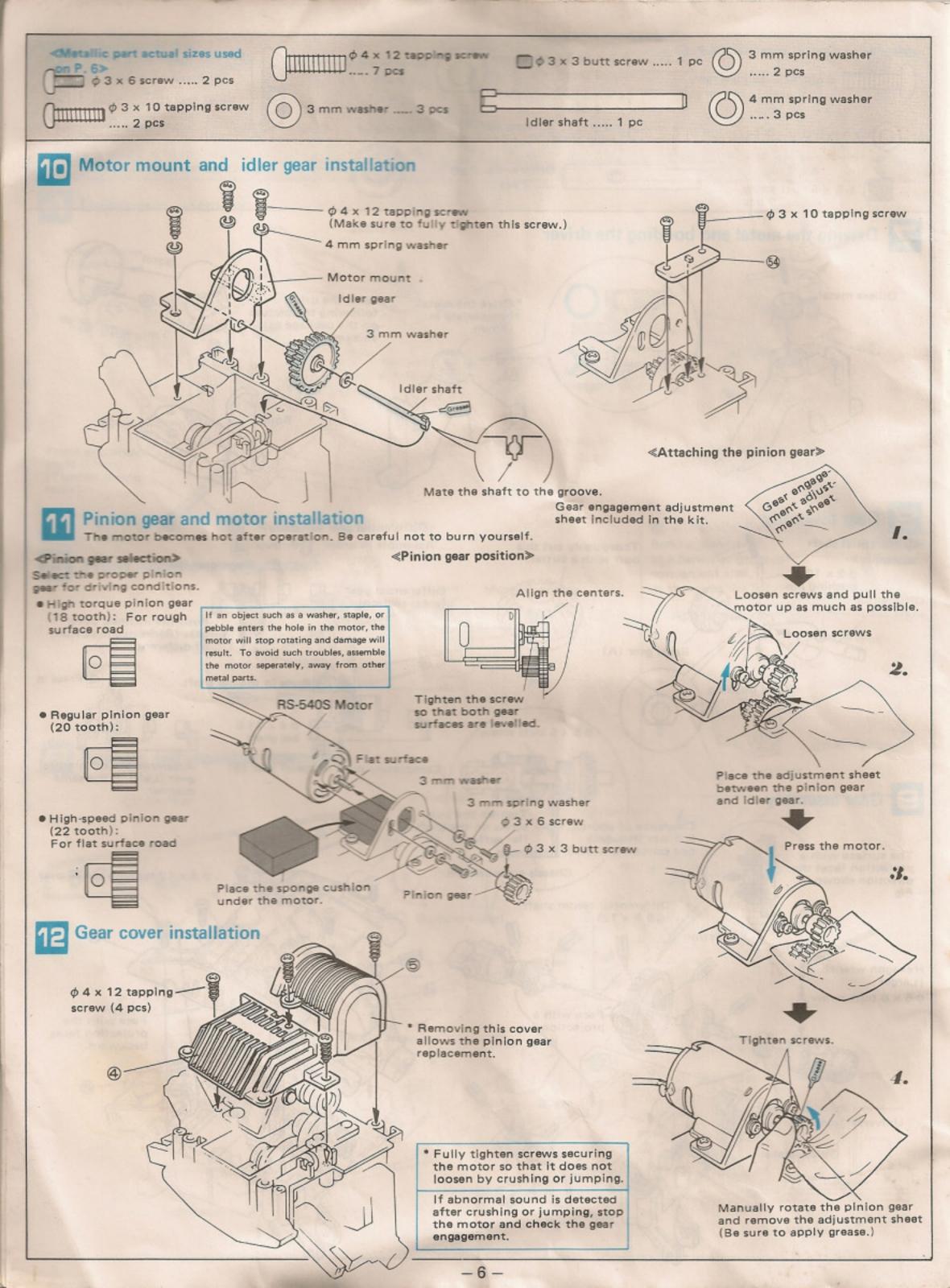
- Read the entire instructions carefully and understand the structure well before starting assembly. This ensures smooth assembly.
- A < <□112 grease> mark indicates a portion where the grease included in the kit must be applied. Similarly, a small hammer should be used when the < | hammer > mark appears.
- The screws and washers to be used for assembly are shown in actual sizes. Ensure the use of correct components by comparing their actual sizes according to the chart before assembly.
- Some screws, nuts, and washers may be left over as more than required numbers are included in this kit. Use them as spare parts.
- Thoroughly remove plastic part burrs using a cutter knife.
- \* Strengthened nylon part burrs must be completely removed as they may impair driving performance. (Be careful not to cut your fingers with a cutter knife.)

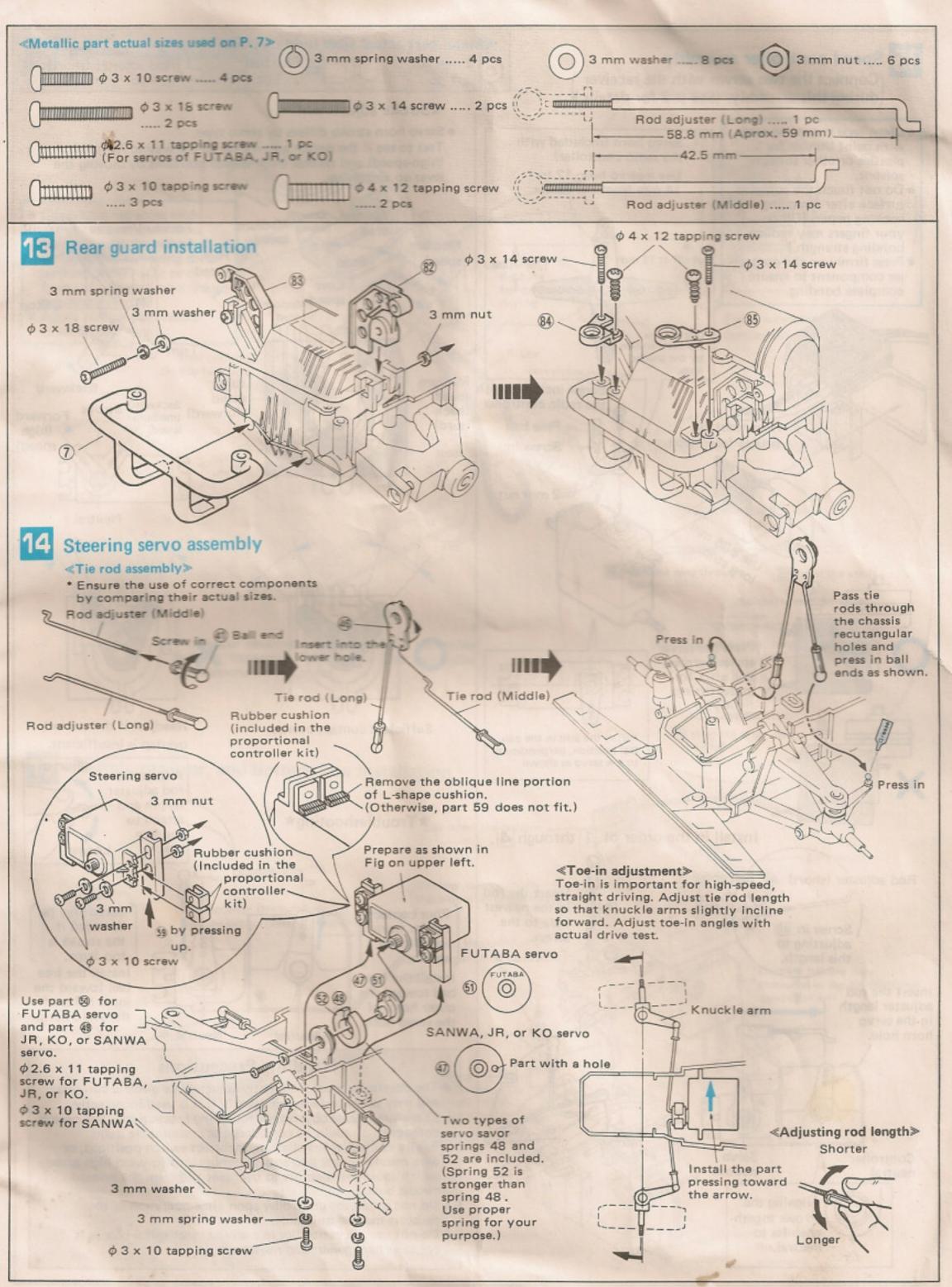


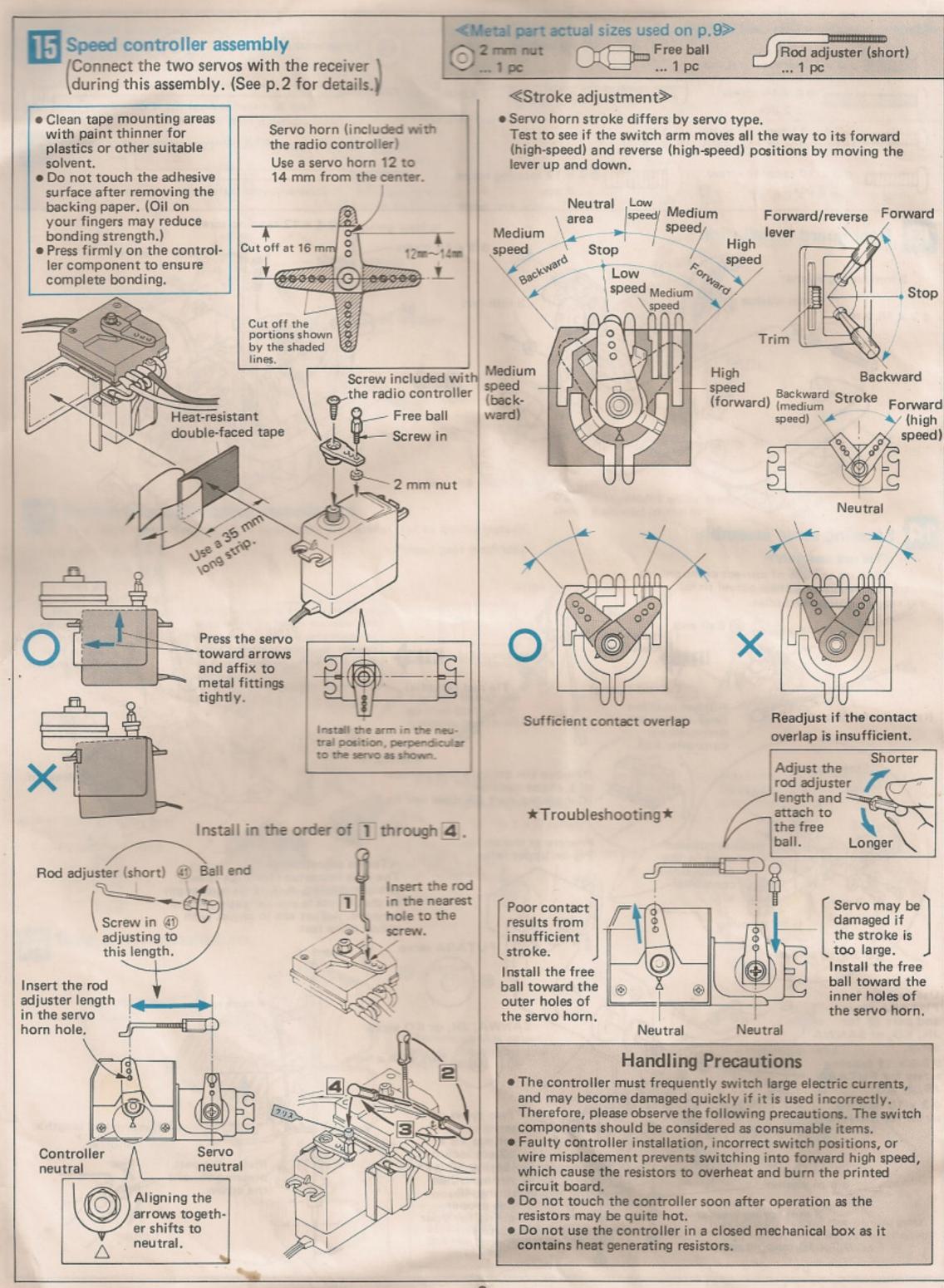


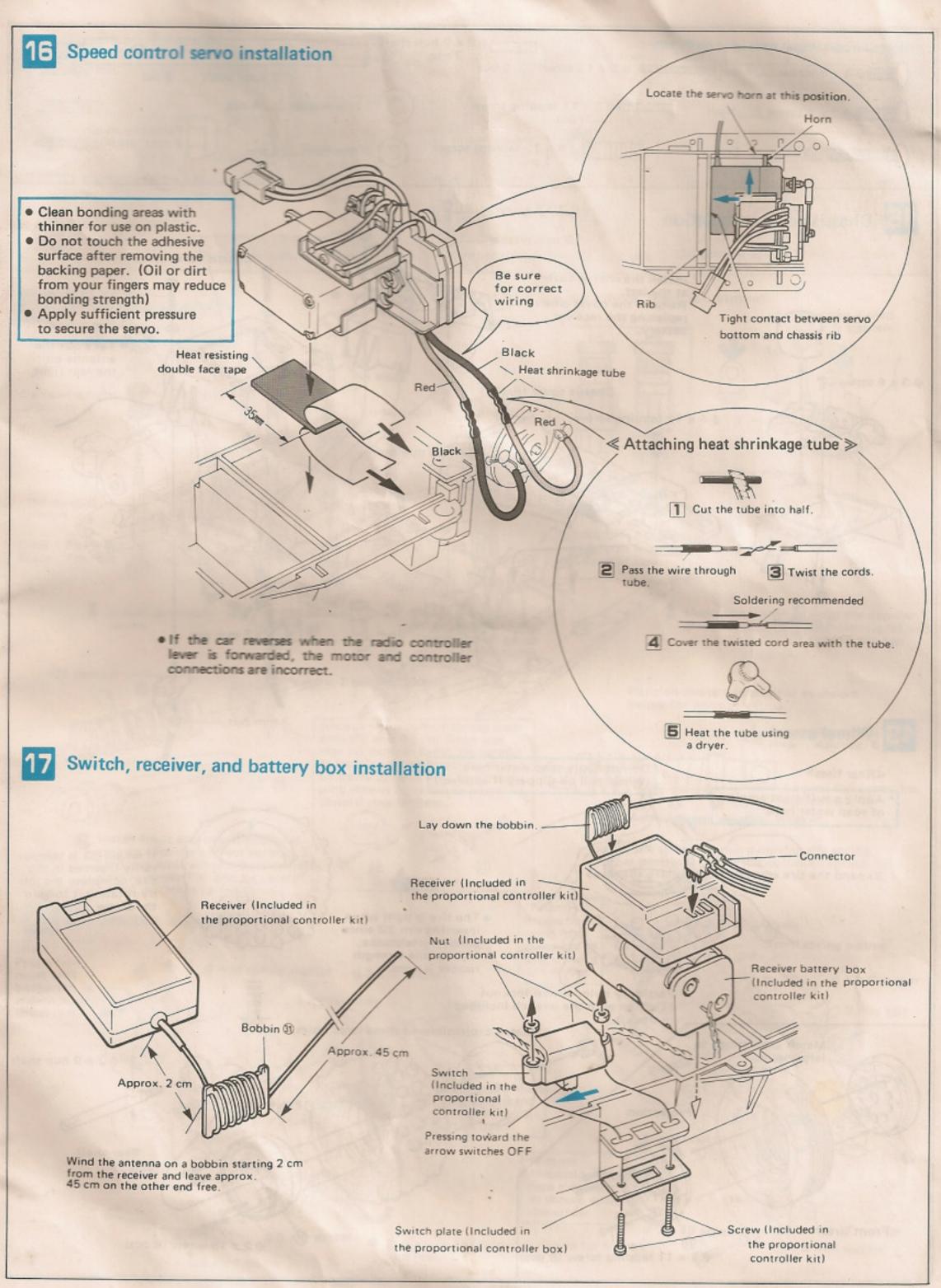


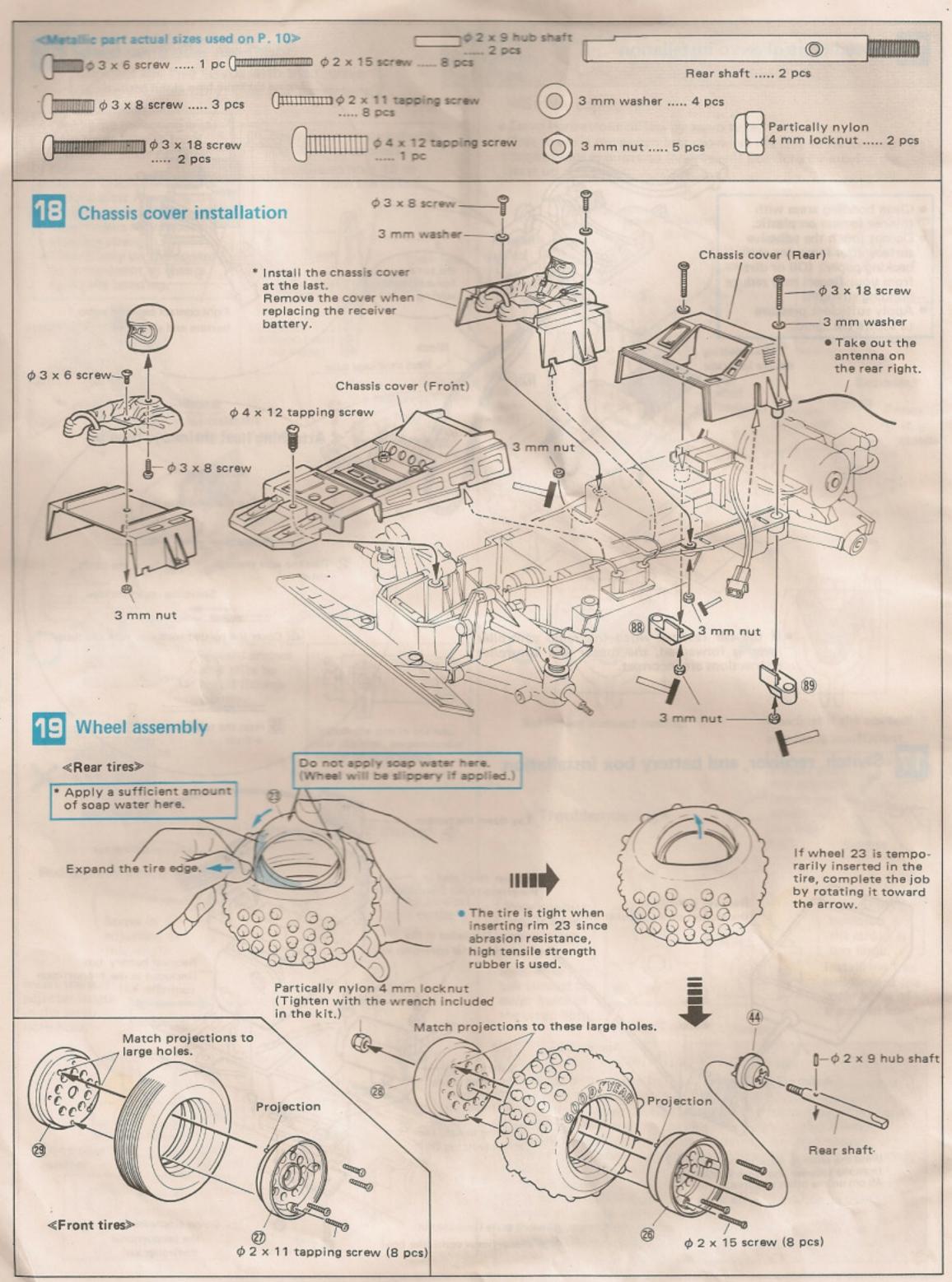


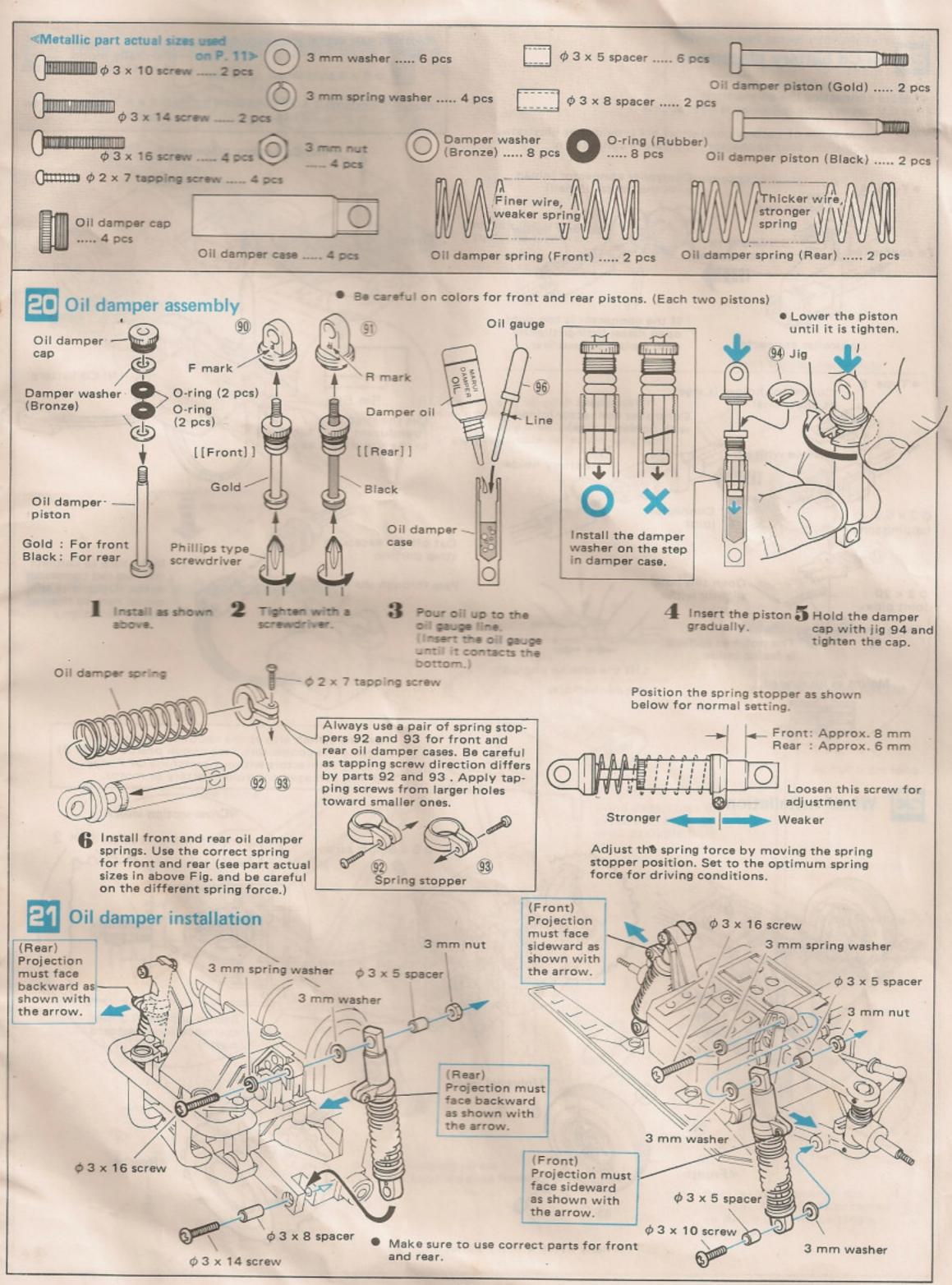


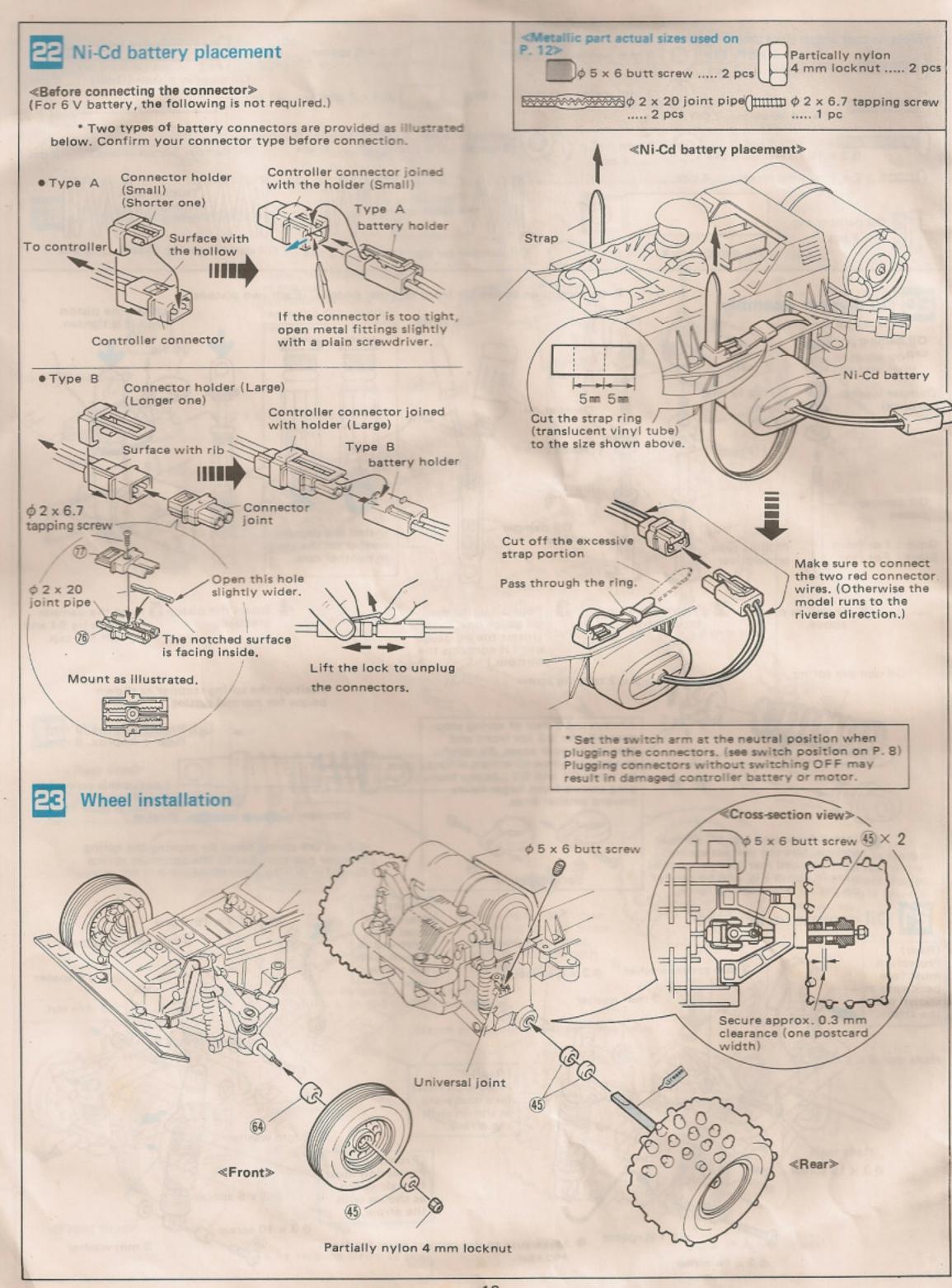


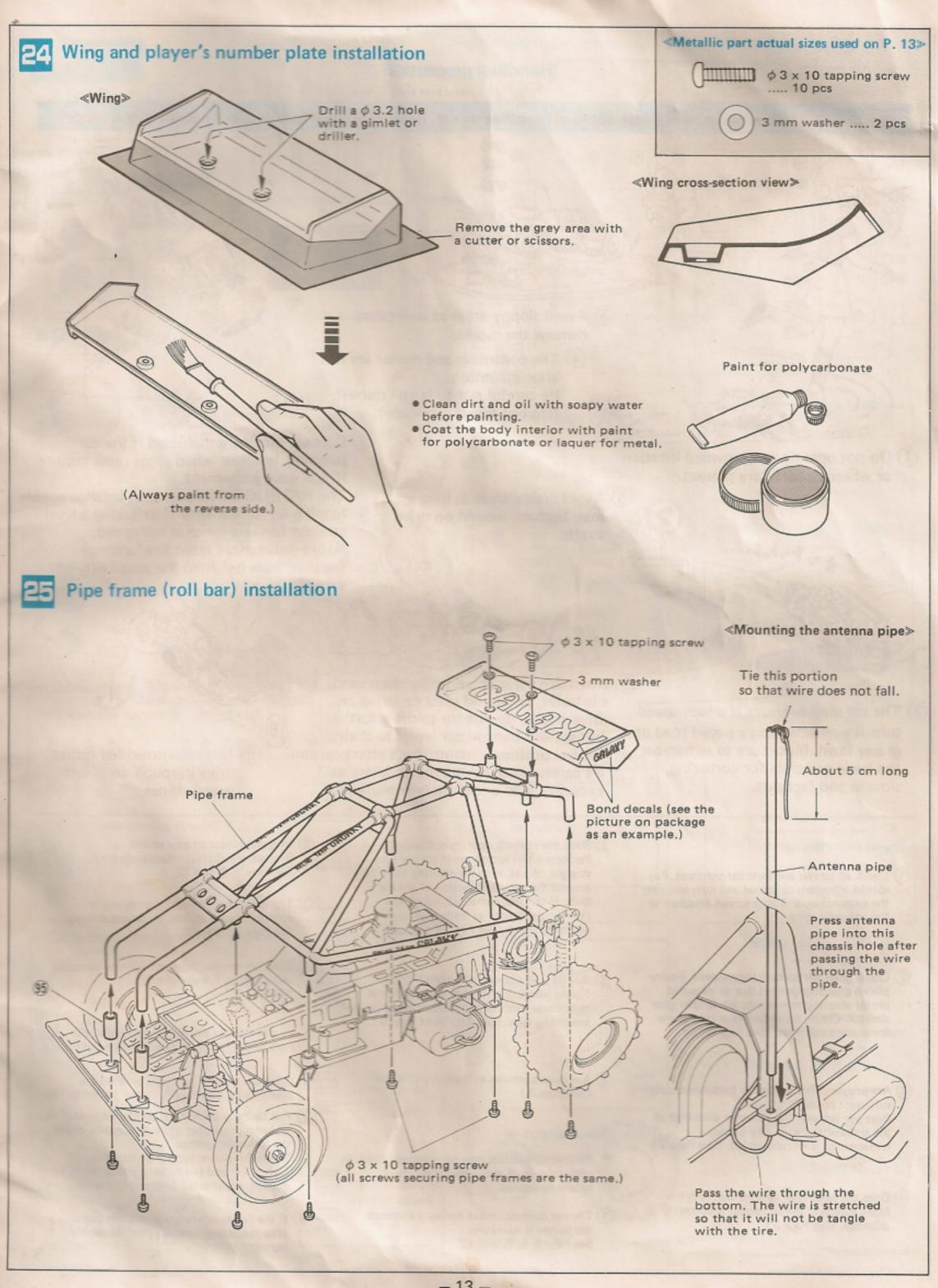






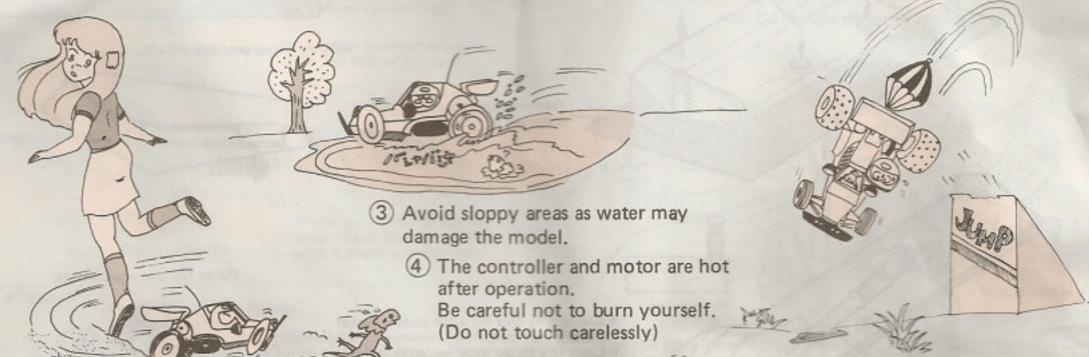






# Handling precaution

# The R/C BUGGY is designed as a high-speed off-road racing car. Be careful while handling and operating this model.



Do not operate at a crowded location or where children are present.

4 ", koh.h ....

S Avoid grassy areas as long grass may become wound on drive shafts.

7 Damage may be anticipated if the car jumping, however when some races require it, use your judgement.

The R/C BUGGY ideal weight balance enable landing on its rear tires after taking a level straight forward jump at full-speed.

Avoid unbalanced front tire landings because these heighten the possibility of

damage.

2 The car may overturn if a high-speed turn is performed on a paved road or grassy lawn. Make sure to remember the basic principle for cornering, slow in and fast out.

6 When driving is impaired by deep sand, obstacles, or wound grass or string on drive shafts, do not try to drive further, but set the transmitter levers to their neutral positions (controller's stop position). Be careful because the motor bears an excessive load under these conditions.

8 It is recommended not to drive in rough areas with many stones.

### Checks before driving

- Check all screws and nuts for tightness. Pay special attention to screws and nuts securing the suspension, and butt screws attached to the universal joint.
- 2 Check gears for correct engagement, Faulty pinion gear engagement due to loosened motor securing screws may cause idler gear damage. Check the pinion gear butt screw for correct tightness. (See Page 6.)
- 3 Are proportional controller batteries supplying sufficient power? Receiver battery life is shorter than that of the transmitter, and early battery replacement is recommended. (See Page 2.)
- 4 Does the controller operate correctly? Make sure that the controller is correctly adjusted. (See Page 8.)

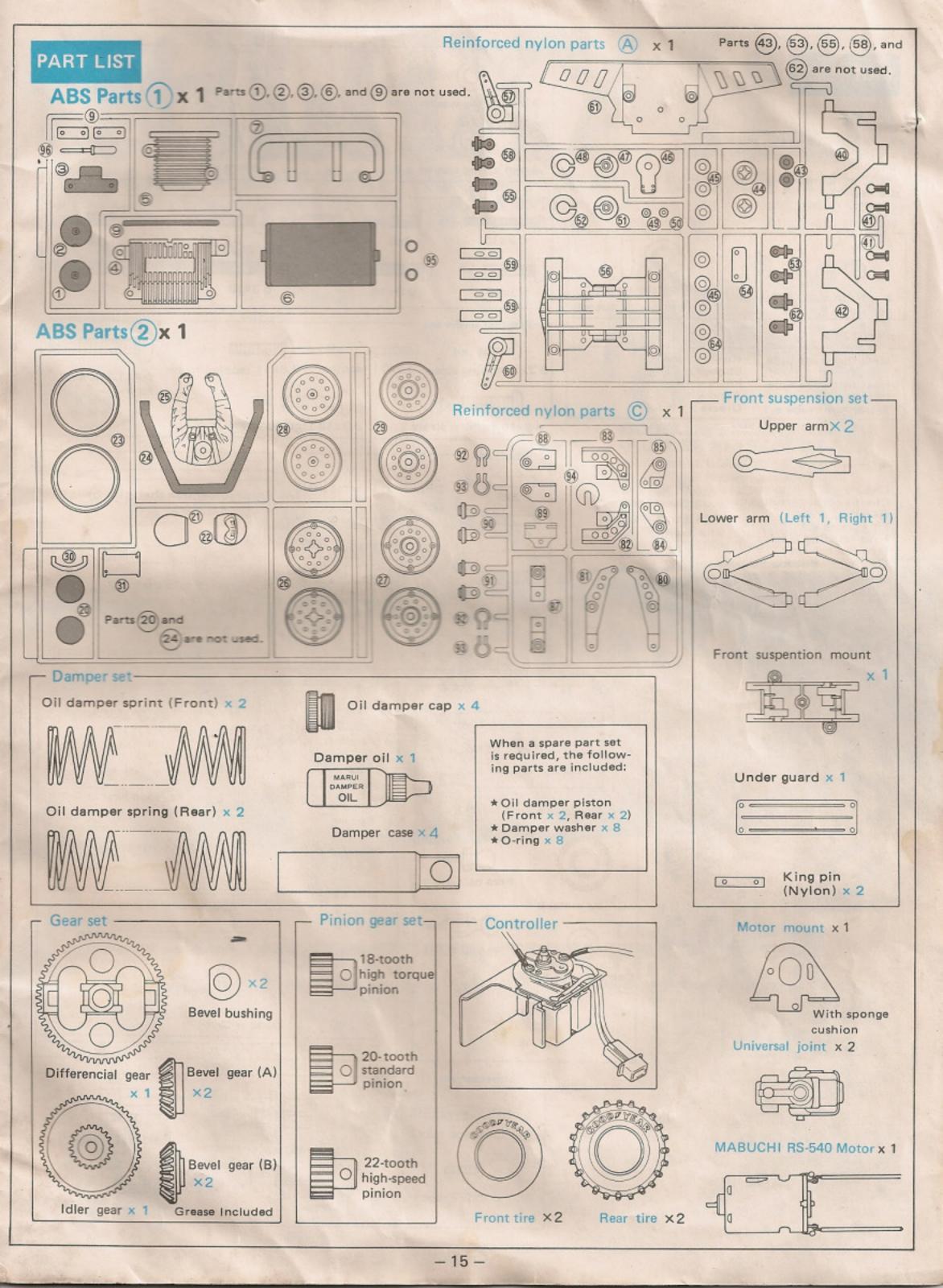
- 5 Does the steering operate correctly?

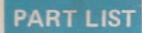
  Perform a test run to see if the car runs straight. If not, turn the steering lever trim toward the reverse direction of the car's drift. If still not corrected, adjust the steering rod length as instructed in the assembly sheet. (See Fig. 14 of page 7.)
- Are all wire connections tight?
   Faulty insulating vinyl or soldered areas may cause short circuit. Repair using vinyl insulating tape. (See Fig. 18 of Page 9.)
- 7 Are drive batteries sufficiently charged? (See Page 2.)

### Troubleshooting

- Following troubles may be corrected through performance of above described checks before operation.
- 1 The car does not move forward although the motor is operating. See Page 5, 6, 8, and 12.

- 2 Irregular motor or gear sound, Rear wheels do not rotate smoothly, See Page 5, 6, and 12,
- The car does not respond properly to control or runs at random during driving. See Page 2, 7, and 8.
- 4 Speed controller does not operate correctly including no full-speed drive. See Page 8.
- (5) Faulty straight driving, or turning to the right and left differs. See Fig. 14 to of Page 7.
- 6 Controller, drive batteries, or wires are over-heated. See Page 8.
- Tor faulty proportional controller operation including improper servo movement, check the following points: Sufficient power supply by batteries, correct (+) and (-) battery connections, an discontinuous servo or connector wires.
- 8 If the faulty operation is still not correcte after the above, contact your dealer for repair.





 Some types of screws and nuts are included excessively for spare part use.

("φ3" in figures represents "3 mm diameter")







Partially nylon

2 mm nut x 3 3 mm nut x 26

4 mm lock nut x 6

- C Set

Heat shrinkage tube (Large) x 1 Heat shrinkage tube (Small) x 1

Translucent tube x 1

Rubber tube x 1 Sponge x 1 Pliers x 1 Bond x 1 Grease x 1

Other Parts

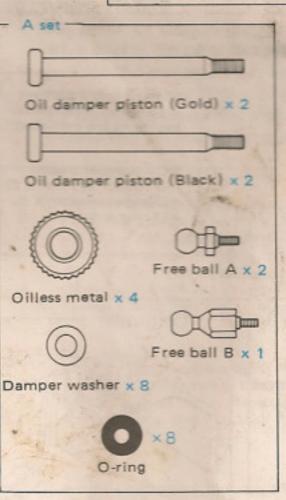
sheet x 1

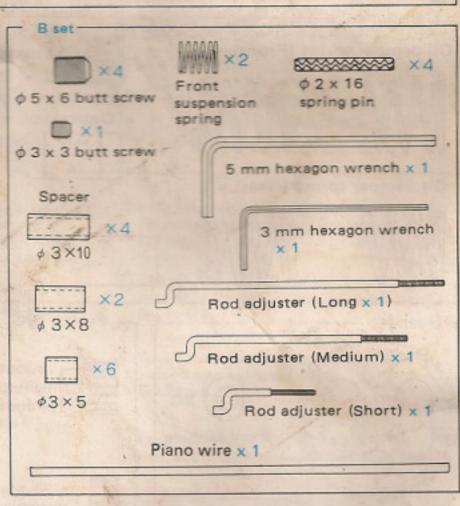
Chassis x 1 Chassis cover (Front, Middle, Rear) ..... 1 each Pipe frame x 1 Heat resisting, double face tape (Black) x 1 Gear engagement adjustment

Wing x 1 Decal sheet x 1 Strap x 2

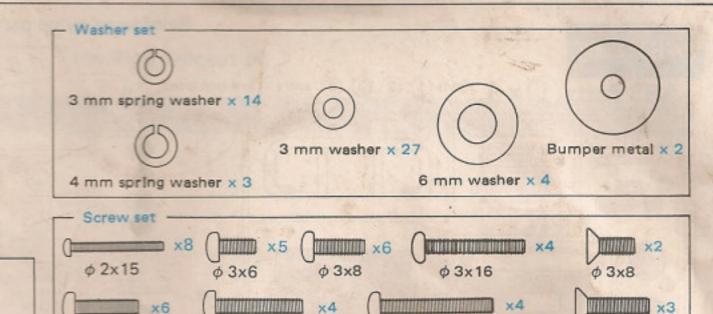
\* Spare parts may be purchased separately.

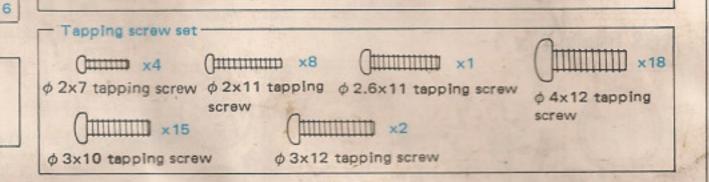






Intermediate connector





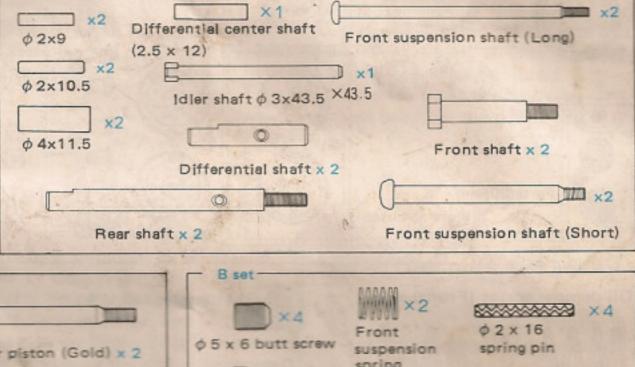
φ3×14

φ3x10

Shaft set -

φ3x18

φ3x12



\*2

φ 2x6.7 tapping screw

Joint pipe \$2x20

(mmm

Connector set

Holder (Large)

Holder (Small)