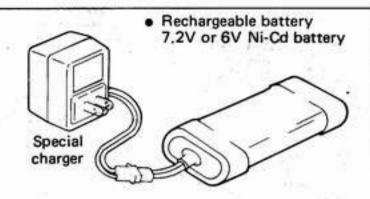


Most regular 2-channel proportional controllers may be used, but always test first. For those who are going to purchase a controller, the following models are recommended:

FUTABA: ATTACK, MAGNUM

K.O.: FX-II, EX-II

SANWA: NEW DASH S



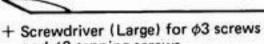
Either 7.2V or 6 V Ni-Cd battery may be used as the power supply for drive motor. A 6 V battery, however, will not deliver the full speed and torque designed into the BIG BEAR model, so we recommend a 7.2 V racing pack for those who are going to purchase a new battery.

A Ni-Cd battery may be recharged up to 300 times. Charging normally requires 15 to 16 hours, but quick-charge models requiring only 15 to 20 minutes are also available.

*Refer to the instructions included with the Ni-Cd battery for details.

((Tools Required h for Assr for Assembly))

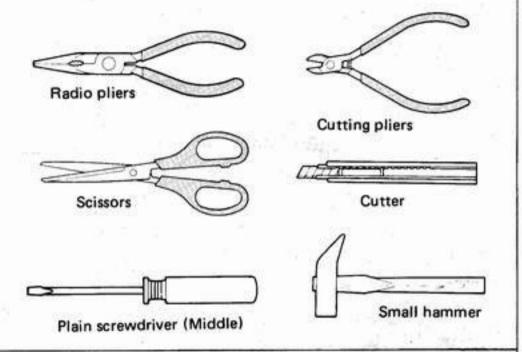
Only phillips type screwdrivers are shown in actual sizes.

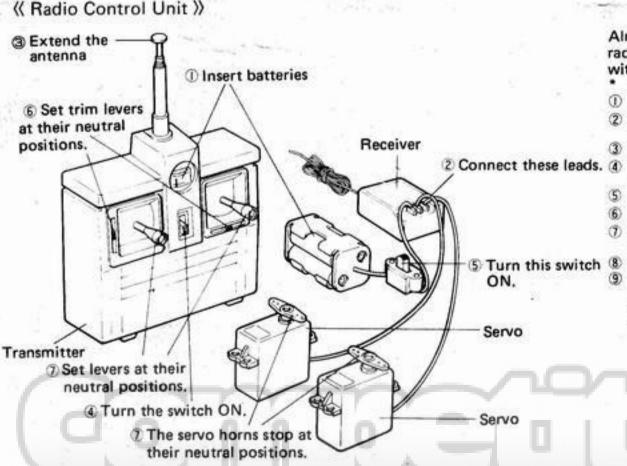


and \$\phi\$3 tapping screws

+Screwdriver (Middle) for damper shaft, φ2.6 screws, and φ2.6 tapping screws

This kit includes many tapping screws. Use the proper screwdriver and the proper tightening torque for each one. Release the turning pressure on the screwdriver when the screw no longer rotates easily. Be careful not to damage screws by applying too much torque.





Almost any 2-channel, 2-servo, digital proportional radio controller may be used, but some may not. Units with 3 or more channels are not suitable.

- Check the controller operation
- Insert batteries in the transmitter and receiver.
- Connect the servo and power supply leads to the receiver.
- Extend the transmitter antenna.
- Turn ON the transmitter switch. (Always turn ON the transmitter switch first.)
- Turn ON the receiver switch.
- 6 Set the trim levers at their neutral positions.
- Set the levers at their neutral positions. (The servo horns should stop at their neutral positions.)
 - Check servoes operation by moving the levers.
- Turn OFF the receiver first and then the transmitter when the test is complete.

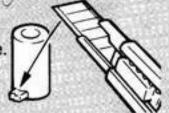
Refer to the radio control equipment instructions for further details.

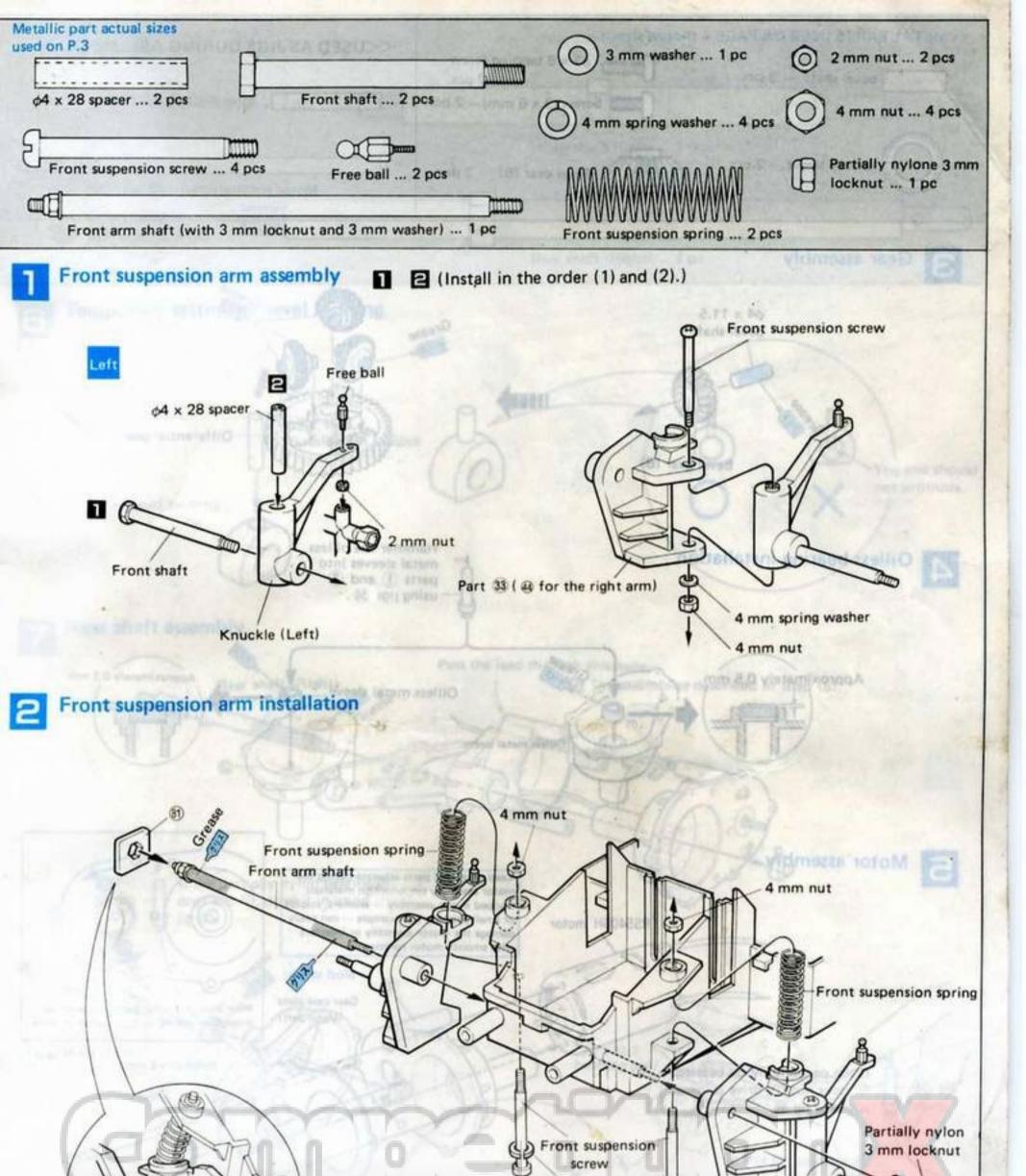
Read the following instructions carefully before assembly

- Read the entire assembly instructions before beginning assembly.
- A < TYX mark indicates a portion where the grease included in the kit must be applied. Similarly, a small hammer should be used when the |- mark appears.
- Some screws, nuts, and washers will be left over as more than the required numbers are included in the kit. Keep

them for use as spare parts.

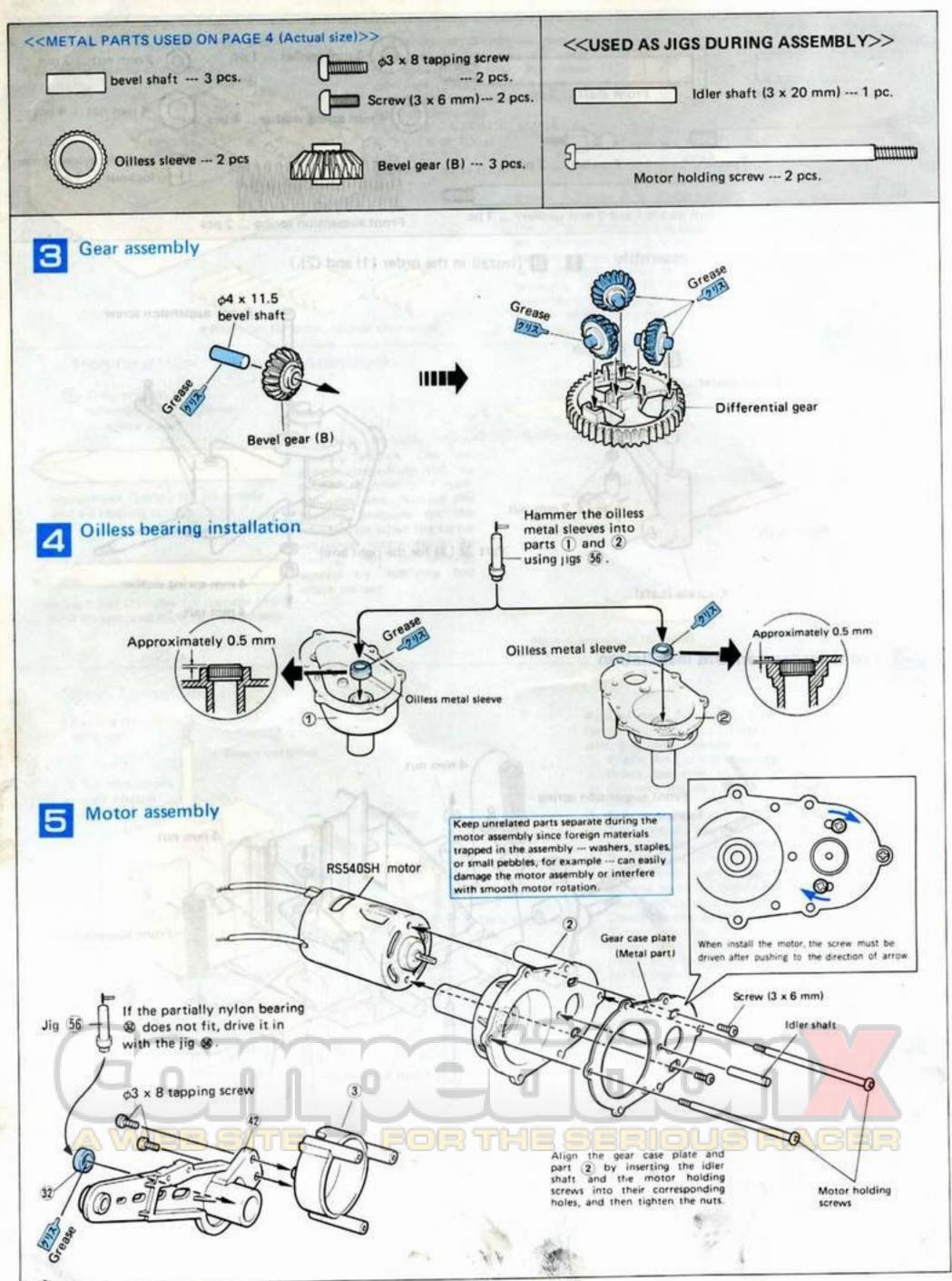
- Thoroughly remove plastic part burrs using a cutter.
- Strenghened nylon part burrs must be completely removed as they may impair driving performance. (Be careful not to cut your fingers with the cutter.)

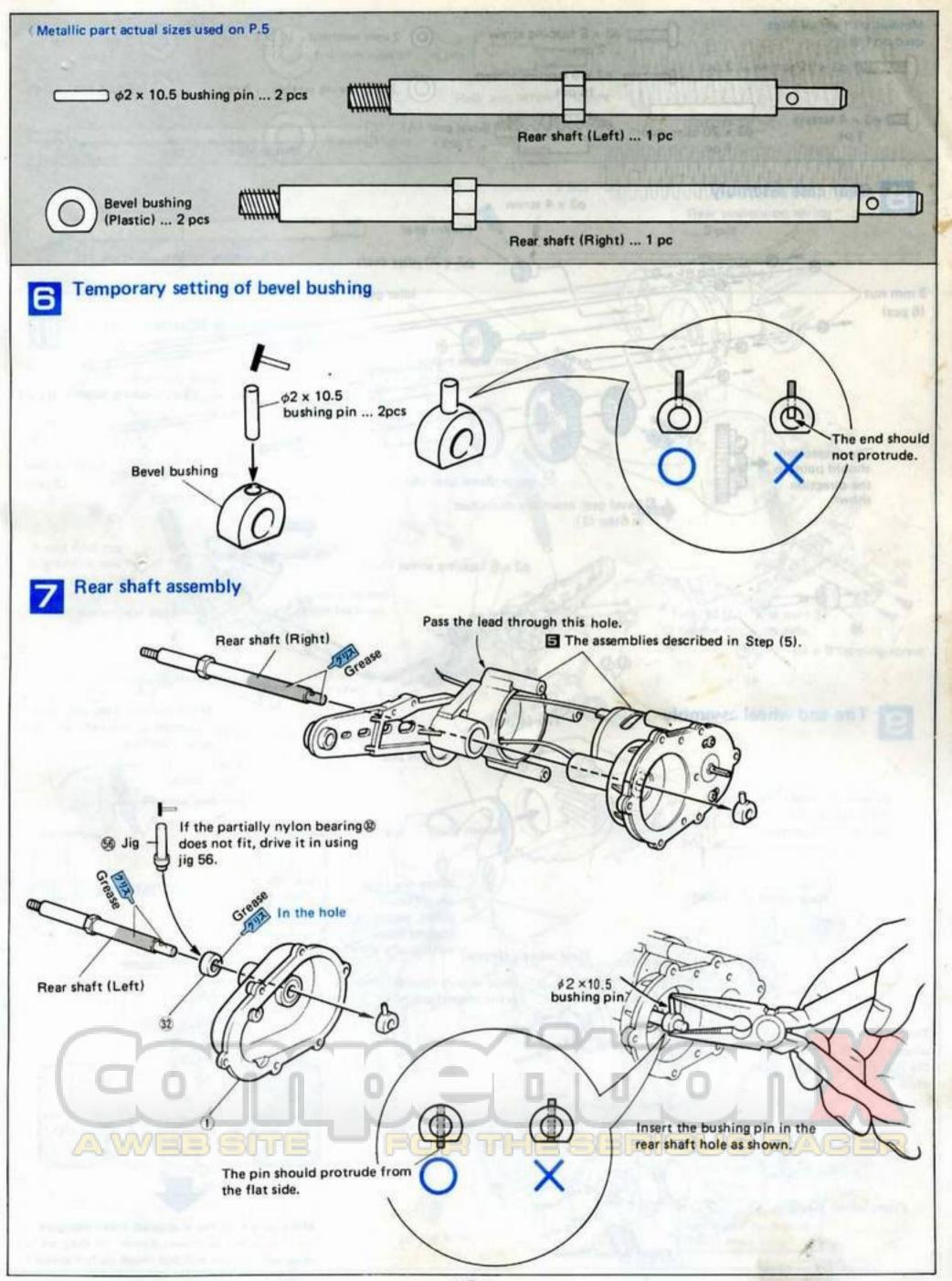


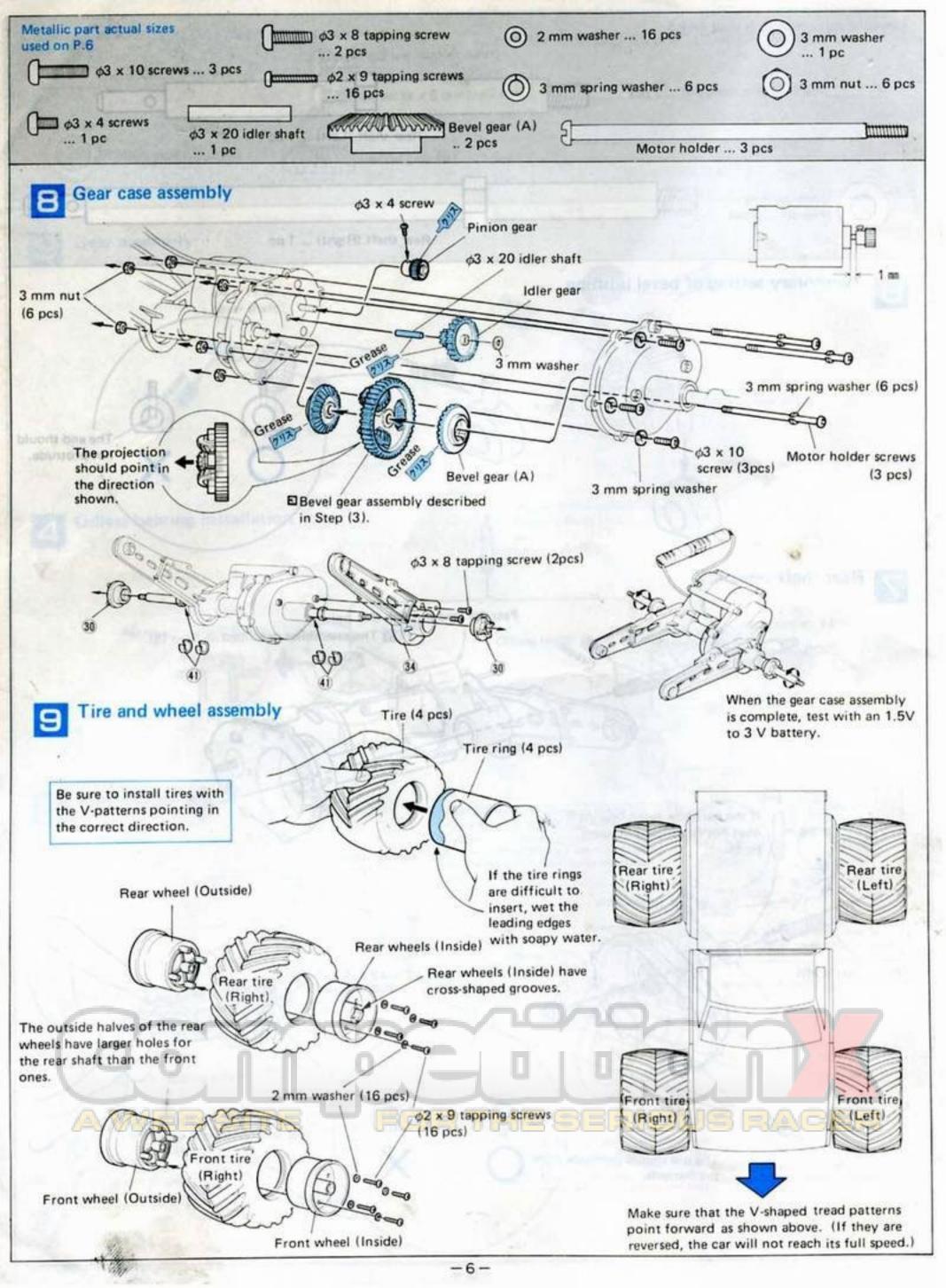


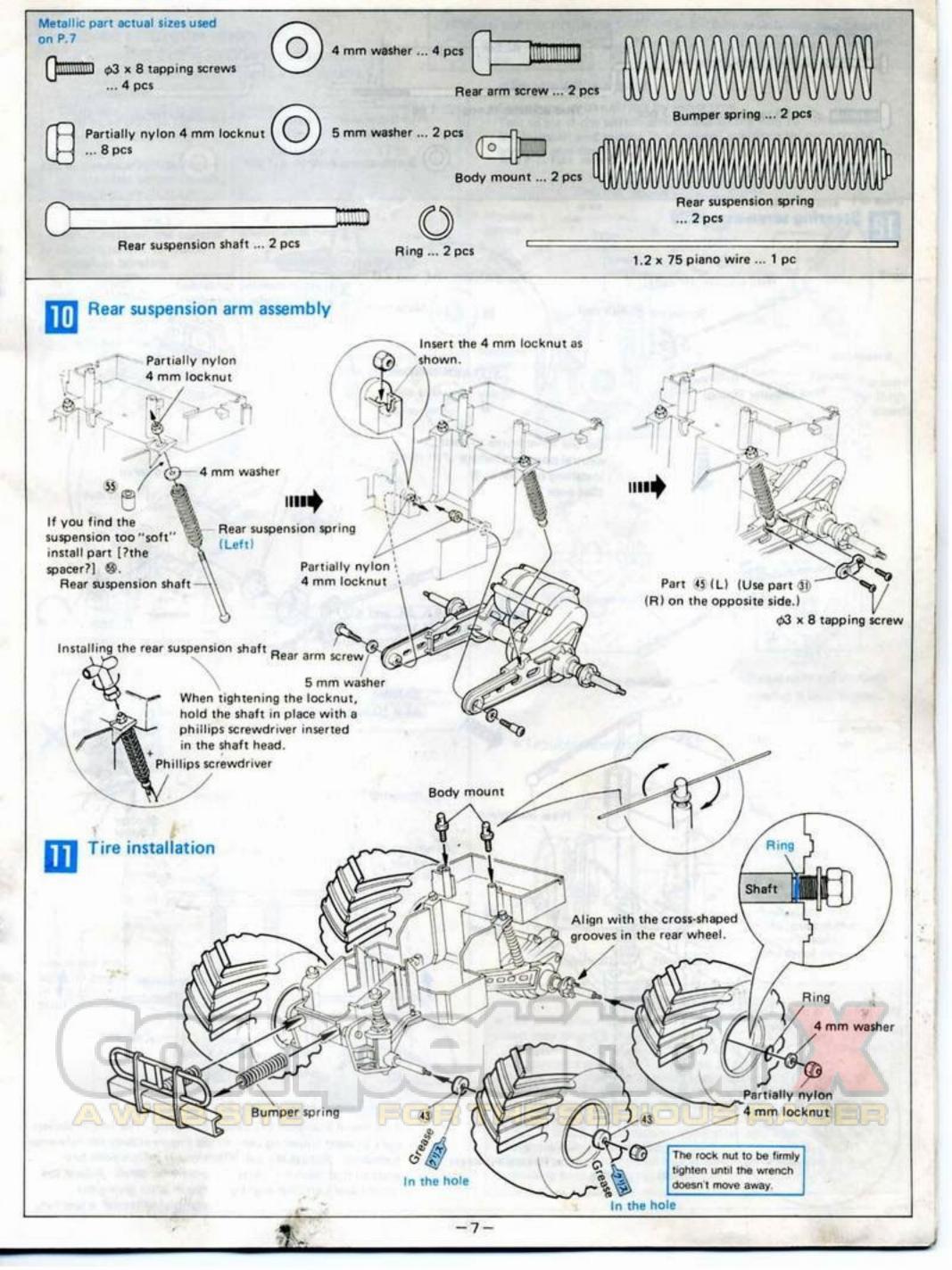
Install part 81 as shown and tighten the 3 mm locknut on the reverse side. (Remove it after tightening the locknut.) 4 mm spring washer

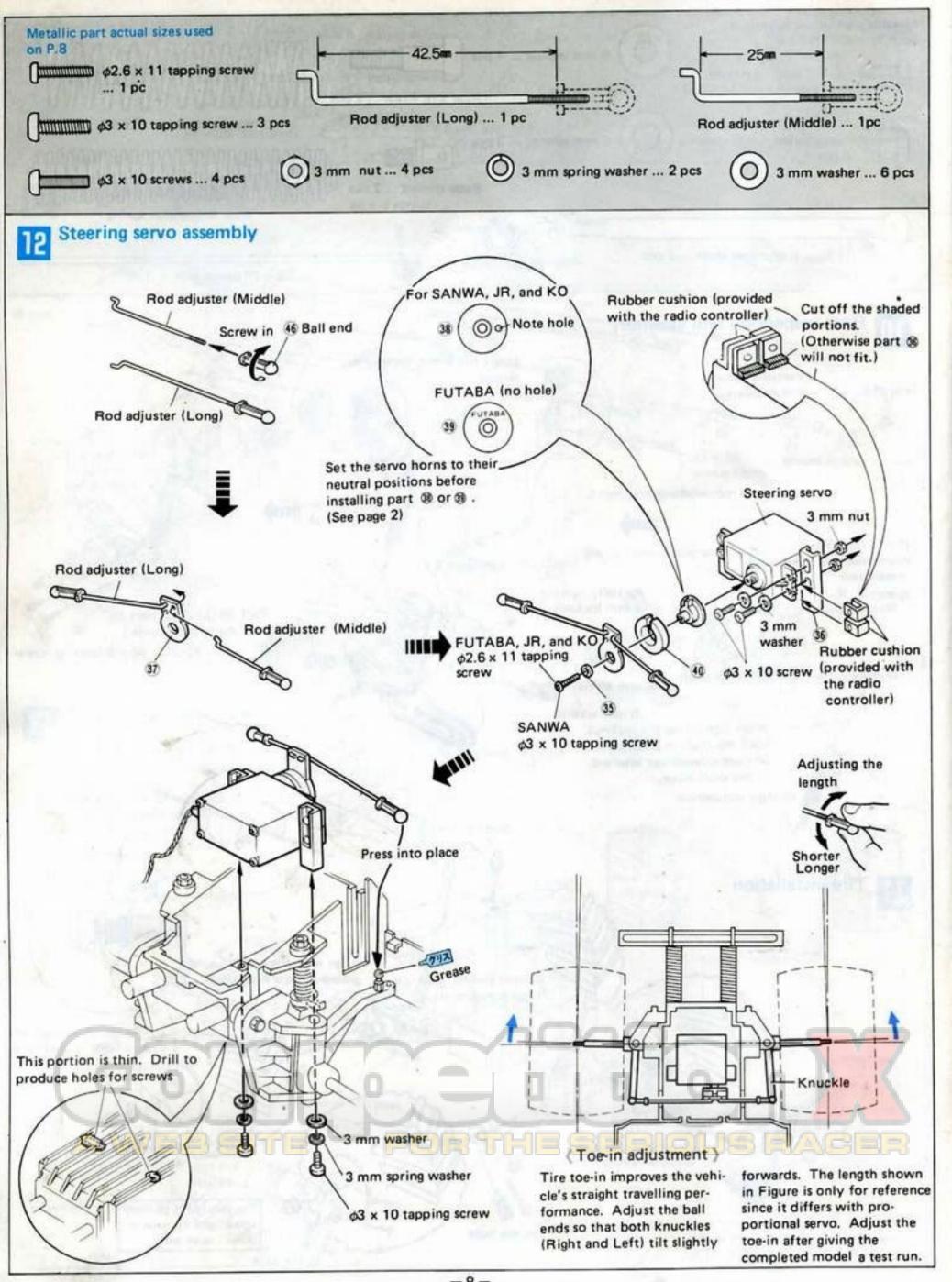
3 mm washer

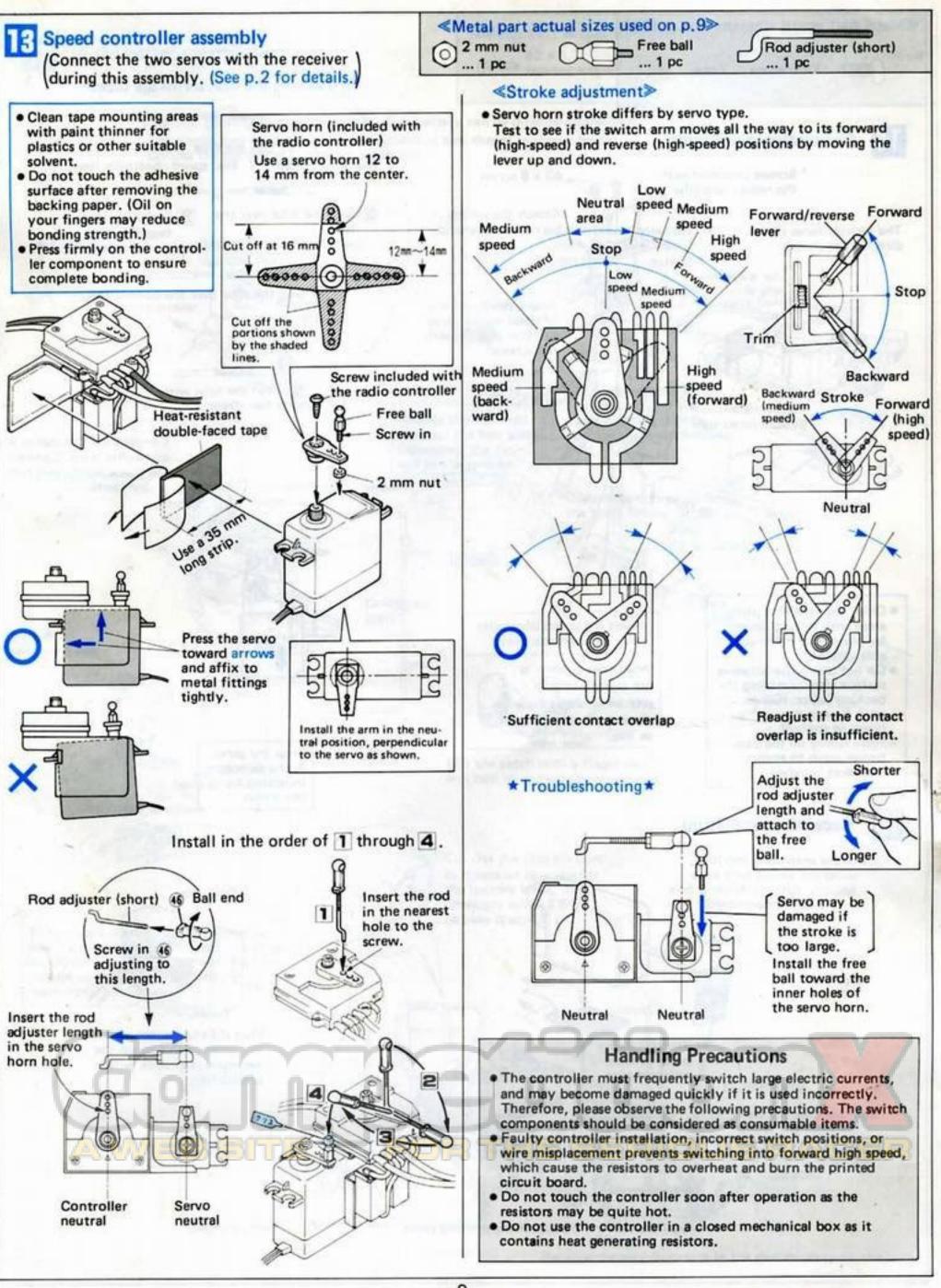


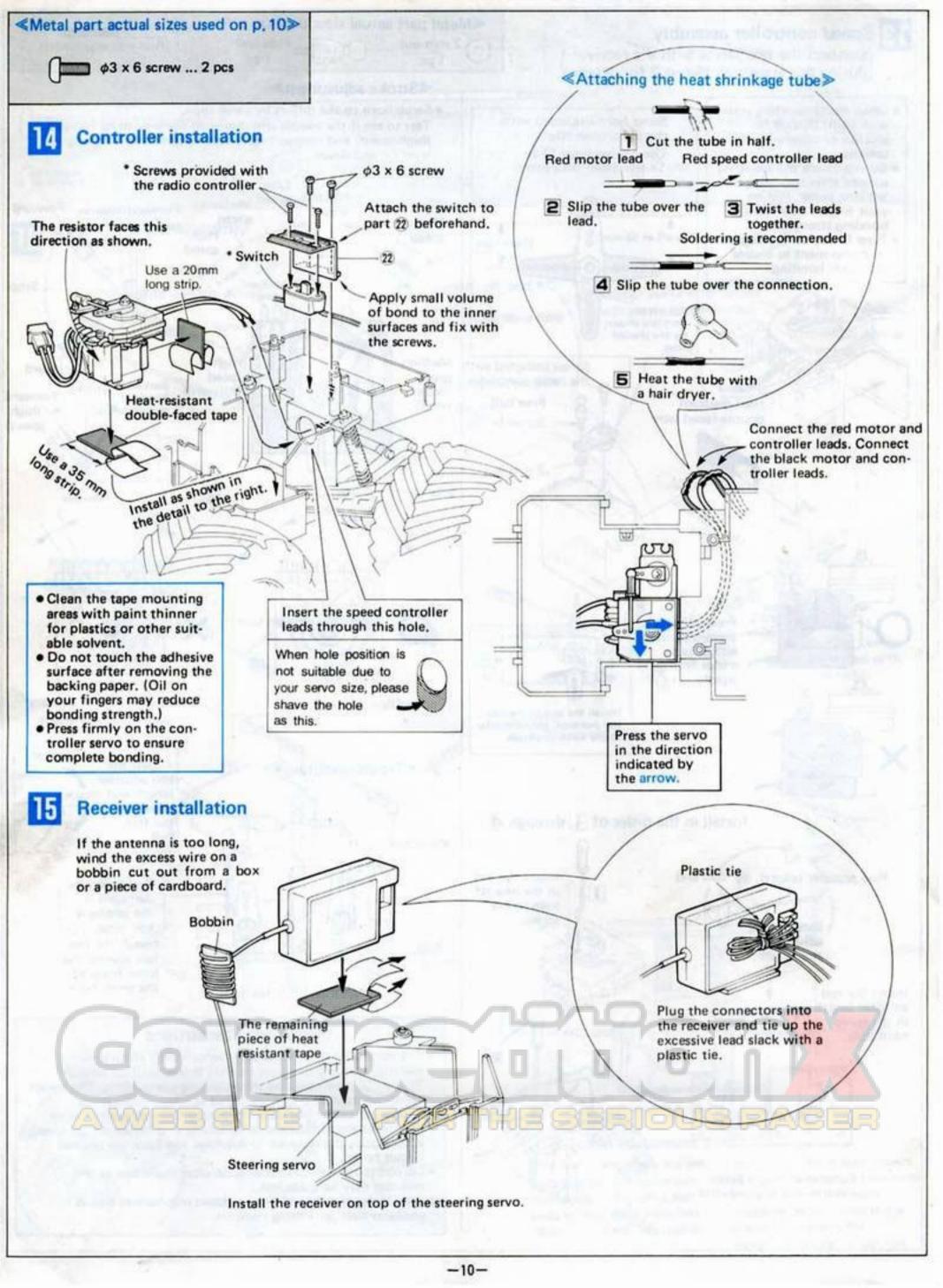


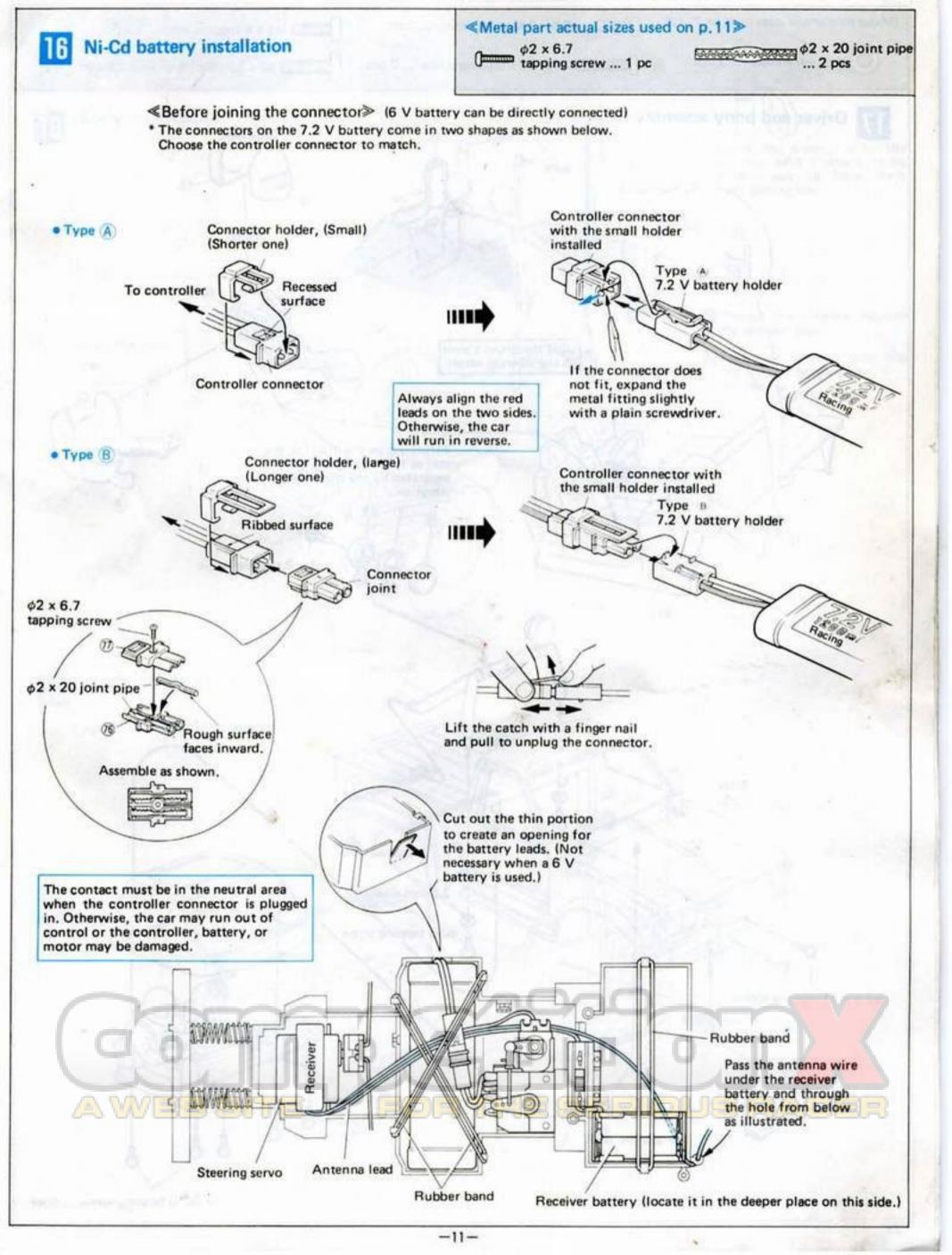


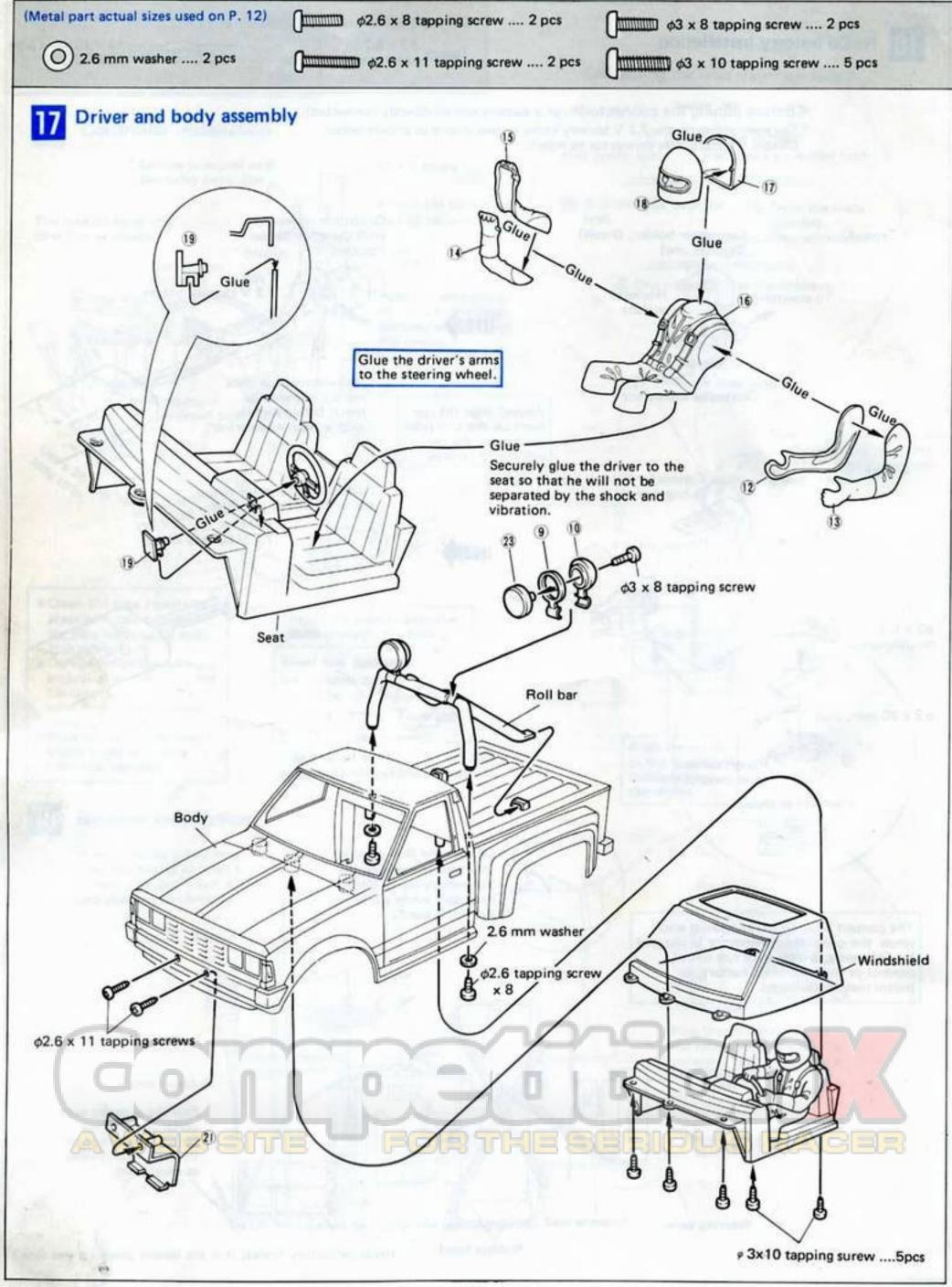


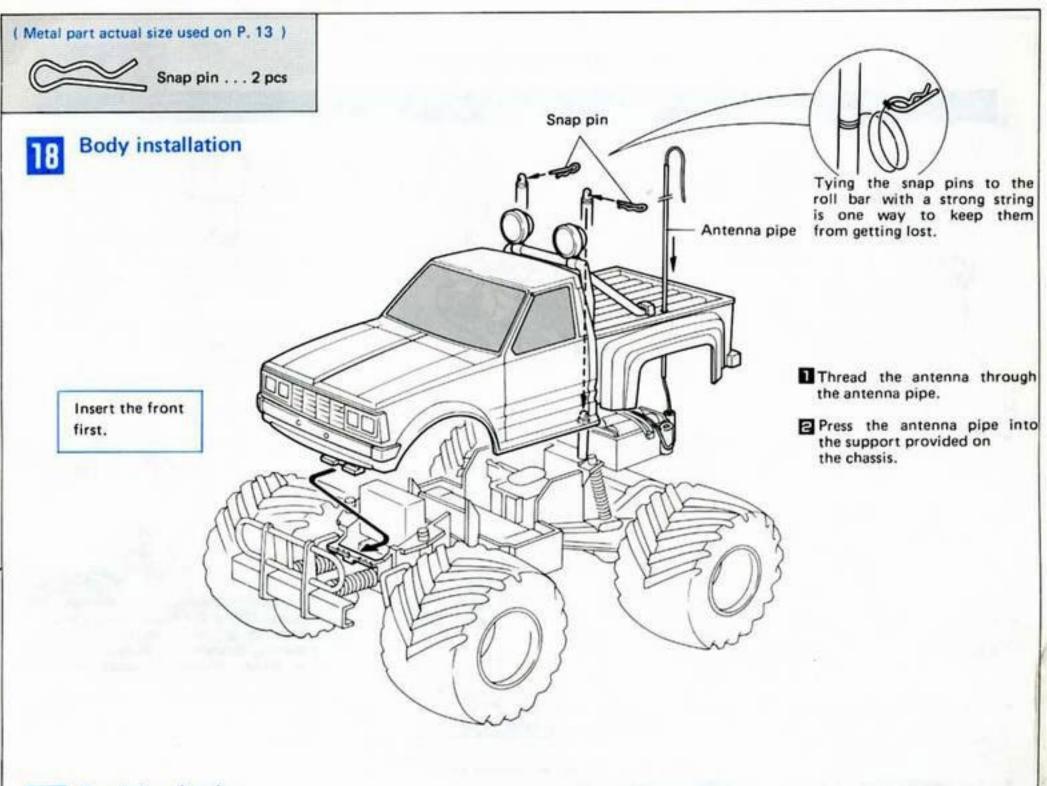






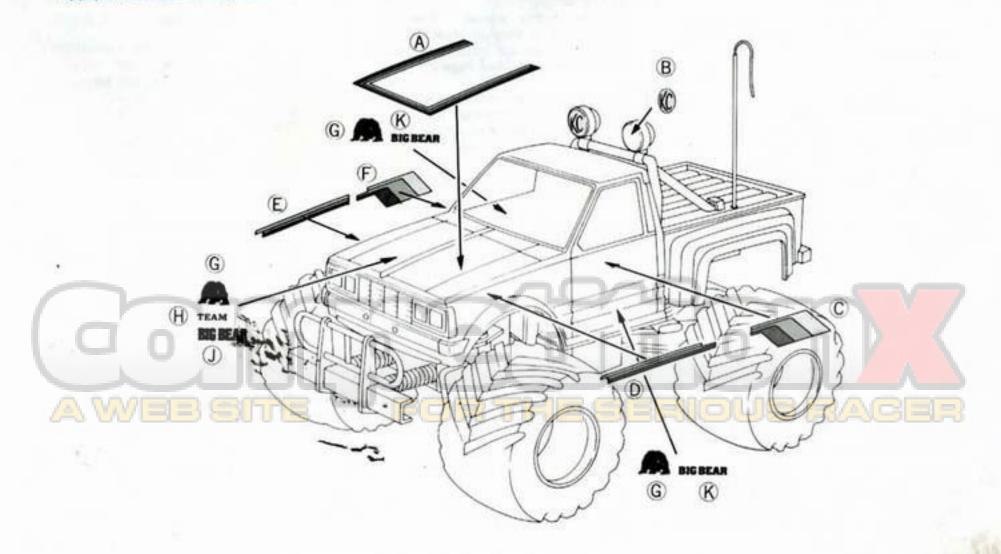






19 Applying decals

*Apply the decals in the positions.



BIC BEAR runs at high speed due to built-in tuning motor. Handle and operate with exreme care.



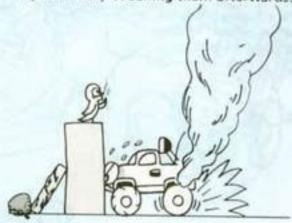
 Do not operate in a crowded location, in the presence of small children, or on roads.



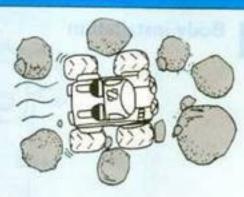
- When the car is trapped in deep sand, return the transmitter levers to their neutral positions and turn the controller off.
- Avoid grassy areas as long grass may become wound on drive shafts.



- Avoid puddles areas as water may damage the motor or proportional controller circuits.
- The controller and motor heat up during operation. Becareful not to burn yourself by carelessly touching them afterwards.



 When the car encounters an obstacle, do not try to continue driving. The excessive load may burn out the motor.



 Although this car has outsized tires for excellent performance on rough surfaces, avoid rough areas with many sizable stones.



- Incorrect jumping may damage the chassis. The BIG BEAR's weight balance allows it to land beautifully if it is travelling straight at full speed prior to the jump. (However, avoid excessive drops.)
- The BIG BEAR's outsized tires provide a high road grip, but also impose great loads on the motor when the car is operated in sand and grassy areas. Avoid long periods of continuous operation under such conditions. (The motor will overheat and burn out so give the motor frequent chances to rest.)

<Checks before operation>

Are all screws and nuts tight? Check especially those securing the driving components.



- Does the drive mechanism work smoothly? Place the car on suitable stand so that the tires do not contact the ground. Test-run the car for one or two minutes and check for faulty contacts of drive parts.
- Does the controller function sharply?
 (See the manufacturer's instructions and Page 9 for controller adjustment.)
- Does the steering operate correctly? If the car does not run straight, turn the steering lever trim toward the reverse direction of the car's drift. (See Page 8 for trim adjustment.)

- Do the proportional controller batteries have sufficient power? The receiver battery life is shorter than that of the transmitter. Earlier battery replacement is recommended. (See Page 2.)
- Are all lead connections tight? Faulty insulation or soldering may lead to shortcircuits. Repair with insulating tape (See Pages 2, 9, and 11.)
- Is the drive battery properly recharged? (See Page 2.)

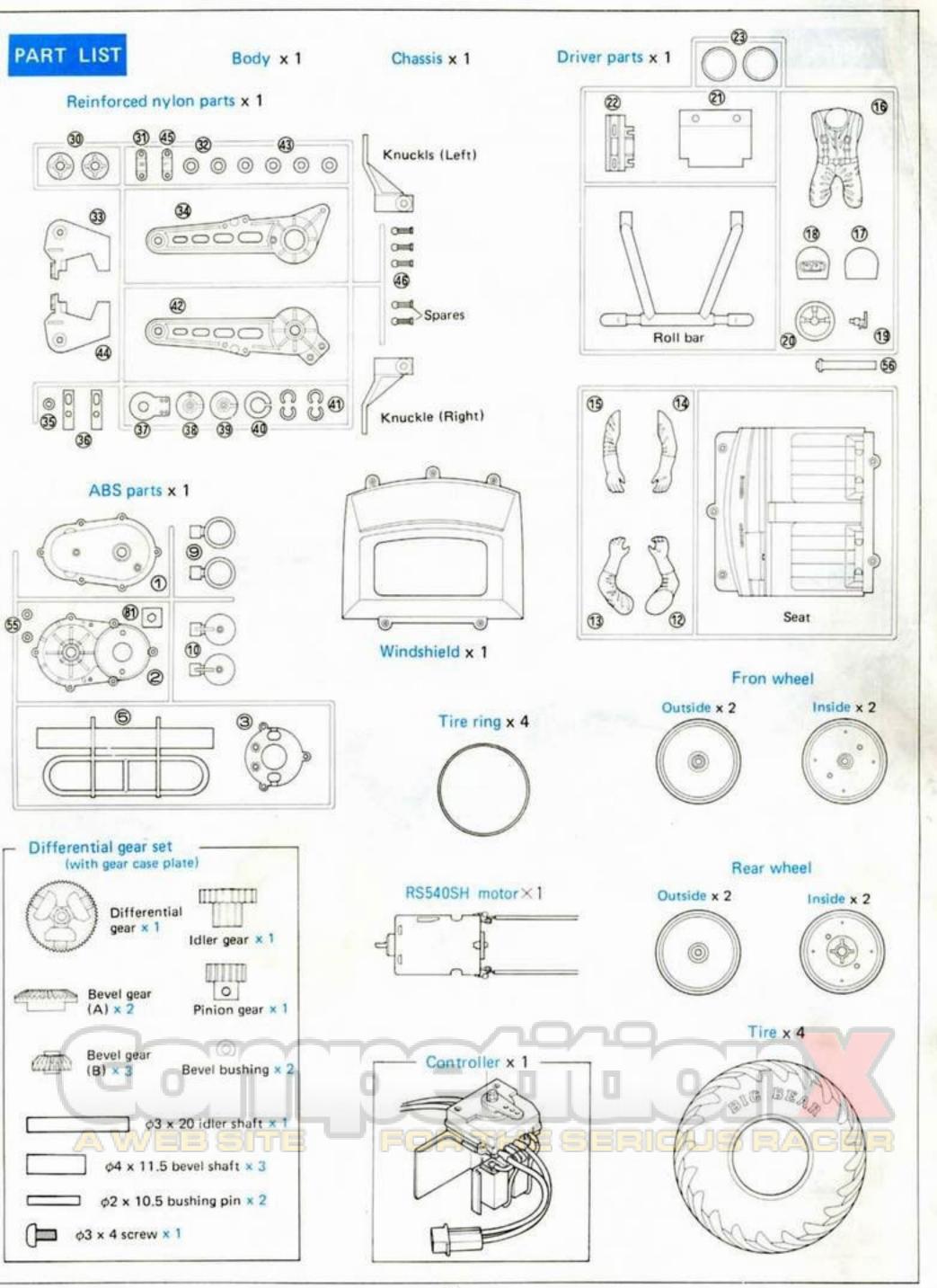
Troubleshooting>

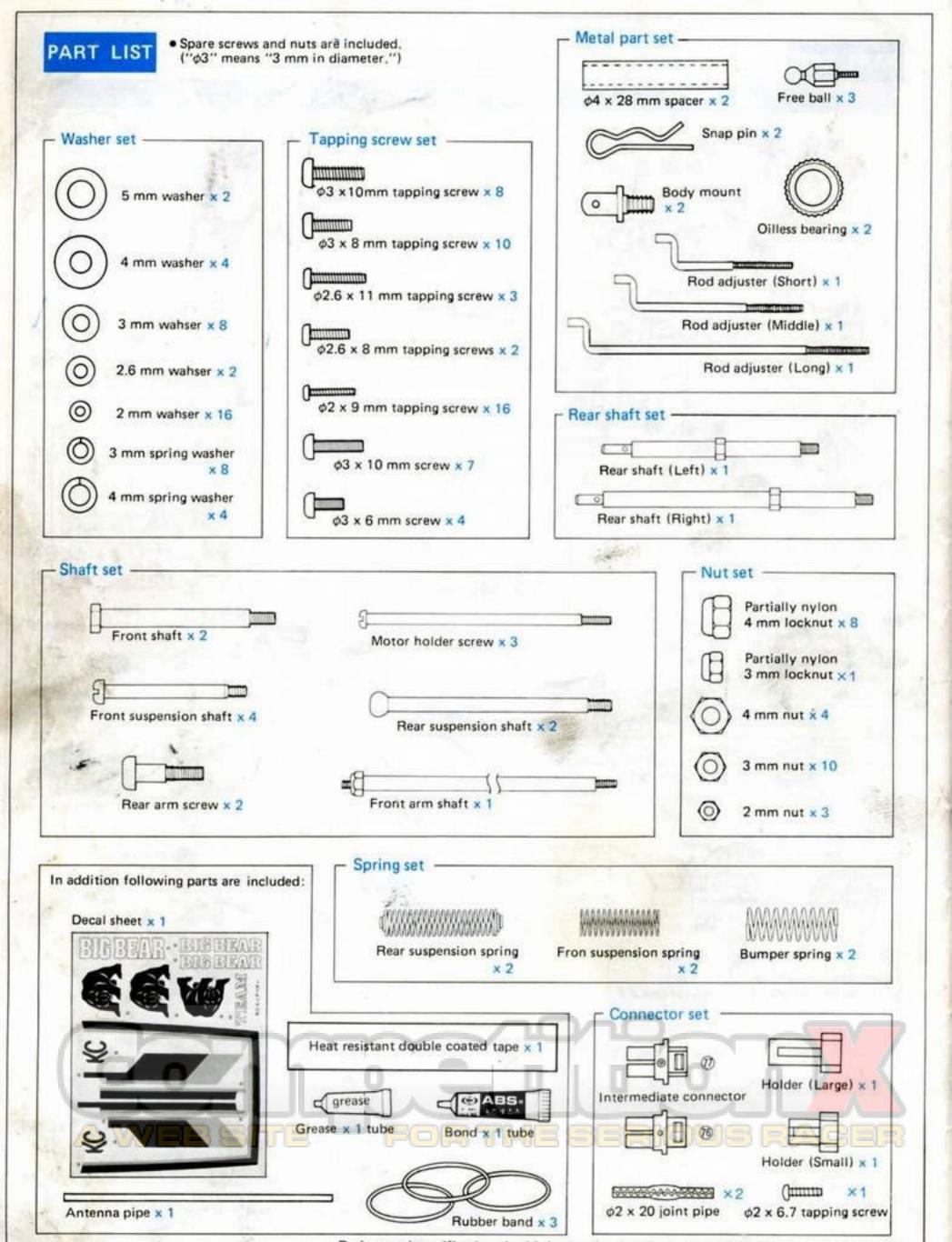
- The car does not move forward although the motor is operating. See Pages 5 and 6.
- 2 Abnormal motor or gear sound. Rear wheels do not rotate smoothly. See Page 6.
- 3 The car does not respond properly to the controller operation or performs erratically. See Pages 5 and 6.
- 4 The speed control is faulty on the car does not shift into top speed. See Page 9.
- 5 The car does not run straight or steering response differs on the right and left. See Page 8.

- The controller, drive battery, or lead overheats. See Pages 4, 5, 6, and 9.
- Proportional controller operation seems faulty—servoes do not operate, for example. Check: (1) the battery charge, (2) battery connections, and (3) electrical continuity of all wiring including each leads and connectors. If the faulty operation is not corrected even after the above checks, contact your radio controller dealer for repairs.

<Checks after operation>

- Through maintenance after use is important to maintaining performance and prolonging the service life.
- 2 Remove all accumulated dirt and sand.
- Always remove all batteries.
- Regularly apply grease to gears and other moving parts.
- Check all screws for looseness





-16-