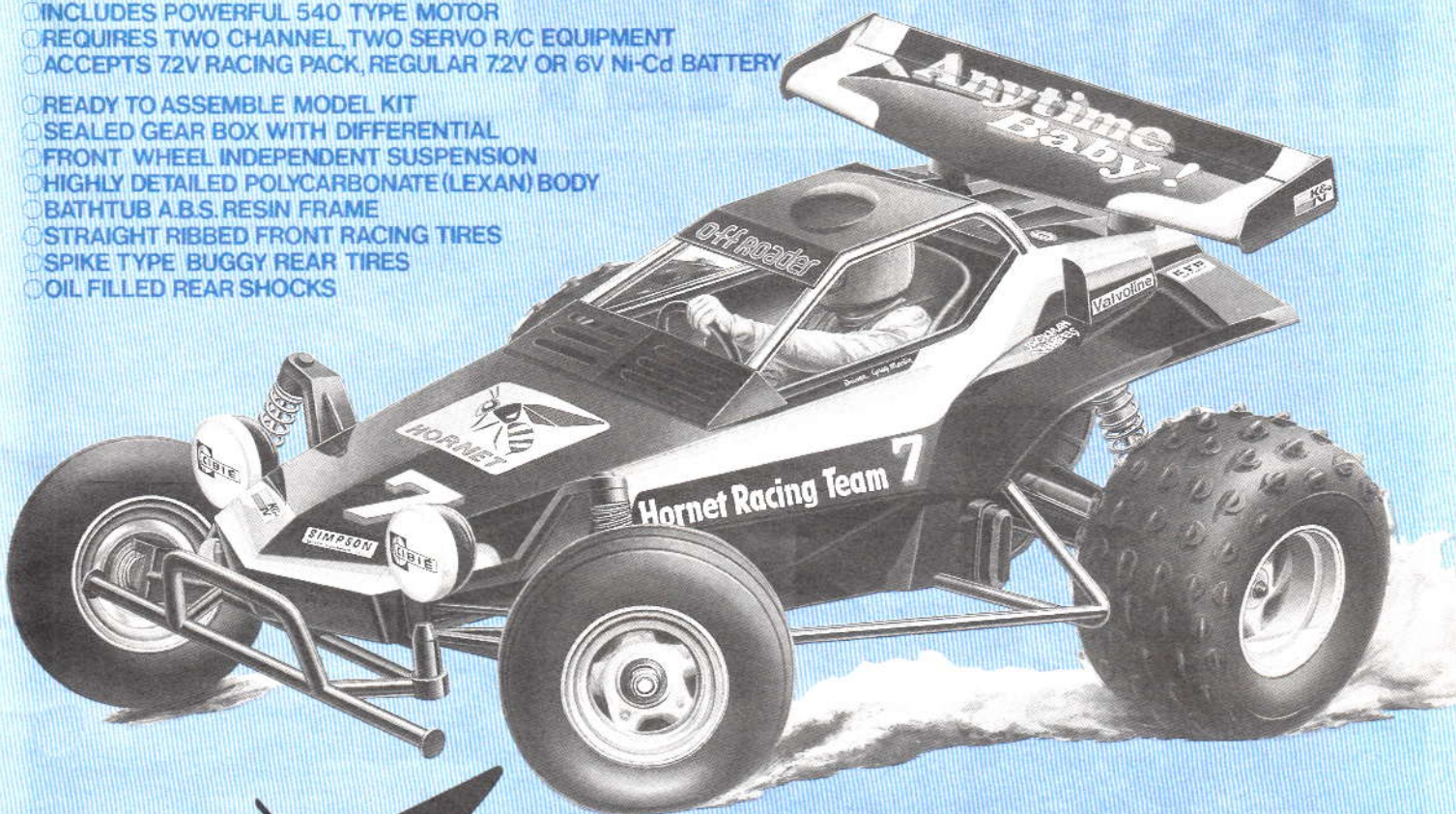


- THREE STEP FORWARD AND REVERSE SPEED CONTROL
- INCLUDES POWERFUL 540 TYPE MOTOR
- REQUIRES TWO CHANNEL TWO SERVO R/C EQUIPMENT
- ACCEPTS 7.2V RACING PACK, REGULAR 7.2V OR 6V Ni-Cd BATTERY
- READY TO ASSEMBLE MODEL KIT
- SEALED GEAR BOX WITH DIFFERENTIAL
- FRONT WHEEL INDEPENDENT SUSPENSION
- HIGHLY DETAILED POLYCARBONATE (LEXAN) BODY
- BATHTUB A.B.S. RESIN FRAME
- STRAIGHT RIBBED FRONT RACING TIRES
- SPIKE TYPE BUGGY REAR TIRES
- OIL FILLED REAR SHOCKS



1/10 SCALE



R/C HIGH PERFORMANCE OFF ROAD RACER

The HORNET



TAMIYA PLASTIC MODEL CO.



OSHIKA, SHIZUOKA-CITY, JAPAN.

The HORNET



RADIO CONTROL UNIT

This kit is designed for a 2 channel 2 servo digital proportional type of radio control system. Almost any 2 channel radio can be used. There are some older 2 channel and 3 to 8 channel sets that are unsuitable because their servos and receiver will not fit into the space provided.

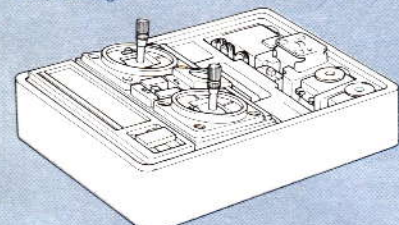
Funkfernsteueranlage

Dieses Modell ist für den Einbau einer 2 Kanal-Anlage mit 2 Servos ausgelegt. Versch. Fabrikate haben jedoch Bauteile (Servo, Empfänger etc.) die grössenmässig nicht verwendet werden können.

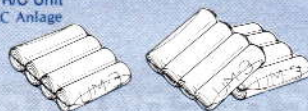
Necessary Items

Folgende Teile werden benötigt:

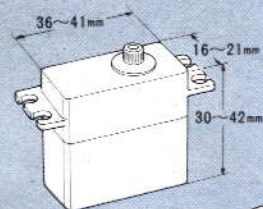
2 channel radio control unit
2 Kanal-Anlage



Batteries for R/C Unit
Batterien für RC Anlage



«Suitable Servo and Receiver Size»
«Grösse der Servos und des Empfängers»



★ Longer and wider receivers can be employed.
★ Es können auch längere und breitere Empfänger eingebaut werden.

Under 23mm
Unter 23mm

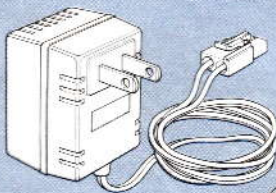
Longer type: Under 34mm
Wider type: Under 40mm
In der Länge bis 34mm — In der Breite bis 40mm

Longer type: Under 61mm
Wider type: Under 54mm
In der Länge bis 61mm — In der Breite bis 54mm

«Power Source»

«Stromversorgung»

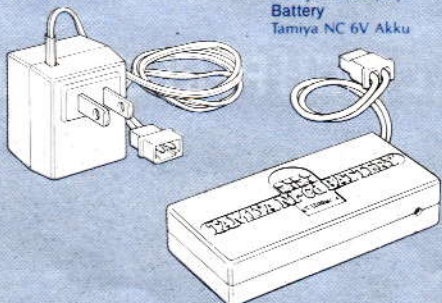
★ This kit is designed to use a Tamiya Ni-Cd 7.2V-1200mAh battery or the 7.2V racing pack. Purchase it separately. When using Tamiya Ni-Cd 6V-1200mAh battery, use 6V battery adapter (50264).



Tamiya Ni-Cd (7.2V) Battery
Tamiya NC 7.2V Akku



Tamiya Ni-Cd (7.2V) Racing Pack
Tamiya NC 7.2V Racing Pack

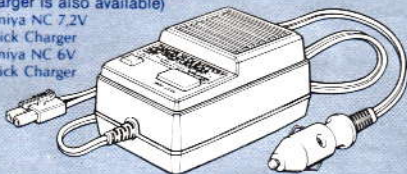


Tamiya Ni-Cd (6V) Battery
Tamiya NC 6V Akku

The optional nickel cadmium battery contains either 5 or 6 cells of 1200mAh capacity. This battery gives your model excellent accelerating ability, etc. Also, it is economical because it can be charged more than 500 times.

Die Tamiya NC Akku's haben entweder 5 oder 6 Zellen mit 1200mAh. Mit diesen Akku's kann das Fahrzeug einmalig beschleunigt werden, sie sind wirtschaftlich, denn die Akku's können ca. 500 mal aufgeladen werden.

Tamiya Ni-Cd 7.2V Quick Charger (6V charger is also available)
Tamiya NC 7.2V Quick Charger
Tamiya NC 6V Quick Charger



«Tamiya Ni-Cd 6V Mini Pack»

The Tamiya Mini Pack 6V Ni-Cd battery is an ideal substitute for your existing receiver battery. It is



Tamiya 6V Ni-Cd Mini Pack
Tamiya 6V NC Mini Pack

Battery Charge Wire
Akku-Ladekabel

quickly rechargeable from the Tamiya 7.2V battery, is light in weight, and will provide about 20 minutes of operation with each quick charge (15 minutes).

«Tools in this kit»

«Werkzeug im Kasten»

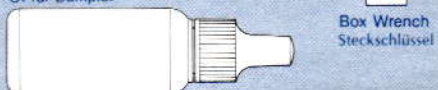
Allen Key
Imbus-Schlüssel



Grease (2g)
Fett (2g)



Damper Oil
Öl für Dampter



Box Wrench
Steckschlüssel



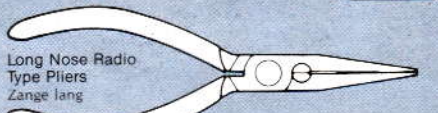
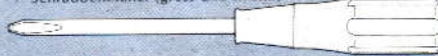
Nylon Band
Nylon-Clipse



«Not included in kit»

«Im Kasten nicht enthalten.»

+ Screwdrivers (large and middle)
+ Schraubenzieher (gross und mittlere)



Long Nose Radio Type Pliers
Zange lang



Side Cutter
Zwickzange



Instant Cement
Schnellkleber



Modeling Knife
Messer



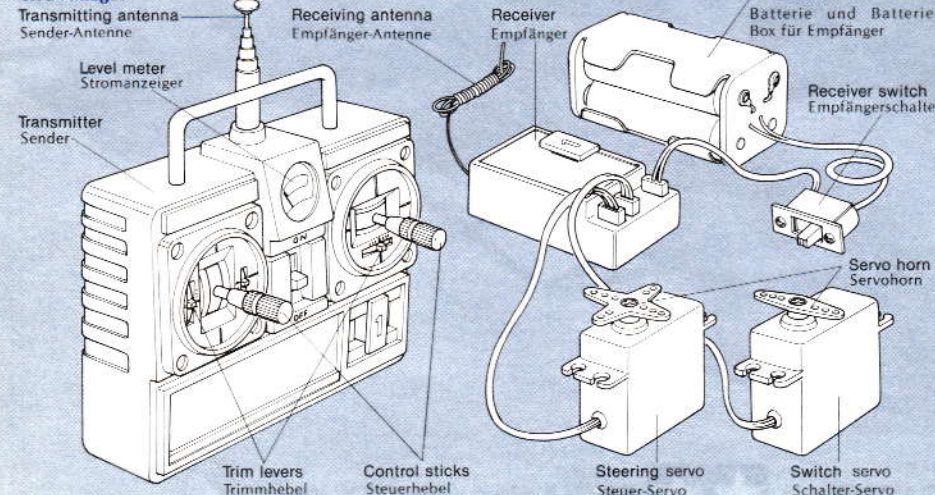
Spray Oil
Ölkännchen

★ Tweezers and cellophane tape will also assist in construction.

★ Pinzette und Tesafilm erleichtern das Bauen.

«RC Equipment»

«RC Anlage»



Transmitting antenna
Sender-Antenne

Receiving antenna
Empfänger-Antenne

Receiver
Empfänger

Batteries and battery box for receiver
Batterie und Batterie-Box für Empfänger

Receiver switch
Empfängerschalter

Level meter
Stromanzeiger

Transmitter
Sender

Servo horn
Servohorn

Trim levers
Trimmhebel

Control sticks
Steuerhebel

Steering servo
Steuer-Servo

Switch servo
Schalter-Servo

«Composition of Digital Proportional System»

The digital proportional system comprises a transmitter, receiver, servos, etc.

Transmitter : Serves as a control box. Stick movements are transformed into radio wave signals which are transmitted through the antenna.

Receiver : Receives signal from the transmitter.

Servos : Servo transforms signals received by the receiver into mechanical movements and actuates the control portion of the car.

«Funkfernsteueranlage»

Für RC Elektromodelle wird eine 2 Kanal Anlage mit 2 Servos empfohlen. Die 2 Kanal Anlage besteht aus:

Sender : Hebelbewegungen werden in Funkwellen umgesetzt und geben über einen Empfänger Impulse an die im Auto eingebauten Servos.

Empfänger : Empfängt Signale vom Sender.

Servos : Signale vom Empfänger werden im Servo mechanisch übersetzt.

READ BEFORE ASSEMBLY.
ERST LESEN — DANN BAUEN.



★This kit is designed to use a Tamiya Ni-Cd 6V or 7.2V-1200mAh battery for power source.
 ★There are many small screws, nuts and similar parts. Assemble them carefully referring to the drawings. To prevent trouble and finish the model with good performance, it is necessary to assemble each step exactly as shown.

★Für diesen Kit kann man den Tamiya 6 Volt oder 7,2 Volt Akku verwenden.
 ★Viele kleine Schrauben und Muttern etc. müssen genau der Anleitung nach eingebaut werden. Exaktes Bauen bringt ein gutes Modell mit bester Leistung.
 Stellen mit diesem Zeichen erst fetten, dann zusammenbauen.

Grease Apply grease to the places shown by this mark. Apply grease first, then assemble.
NOTE: DO NOT USE ANY TYPE OF METAL CEMENT OR LIQUID THREAD LOCK FOR ASSEMBLY OF THIS KIT.

«Screwdrivers»

«Schraubenzieher»
 You should have at hand the two types of screwdrivers as shown below. Use only the correct driver to prevent damage to the screws.
 Man sollte 2 verschiedene Schraubenzieher haben, um Beschädigung der Schraubenköpfe zu vermeiden.

+ Screwdriver large (Full-sized)
 + Schraubenzieher gross (Originalgröße)



For 3mm self tapping screw and 3mm screw
 Für 3mm Blechschrauben und 3mm Schrauben

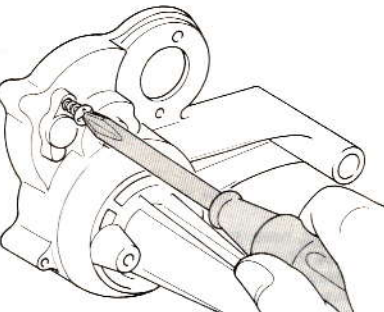
+ Screwdriver middle
 + Schraubenzieher mitte



For 2.6mm self tapping screw, 2mm screw and damper shaft
 Für 2.6mm Blechschrauben, 2mm Schrauben und Dämpfer-Welle

«Self Tapping Screws»

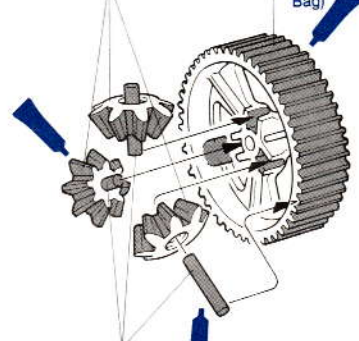
«Blechschrauben (Selbsttreiberschrauben)»
 Self tapping screws require more power to fasten. Use a driver with a large grip. Stop screwing when the threads are no longer seen. Using force may break off heads. Zum Anziehen der Blechschrauben braucht man mehr Kraft. Der Schraubenzieher sollte einen guten Griff haben. Wenn Gewinde nicht mehr sichtbar ist, mit Schrauben aufhören, es könnte sonst der Schraubenkopf abbrechen.



★ Use a screwdriver that matches the screw to tighten up.
 ★ Verwenden Sie einen Schraubenzieher, der zum Schrauben passt.

2 «Assembly of Differential Spur Gear»
 «Zusammenbau des Differentials»

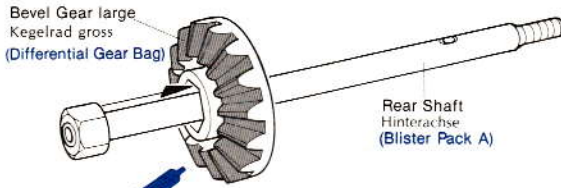
Bevel Gears small (Differential Gear Bag)
 Differential Spur Gear (Differential Gear Bag)



3mm x 14 Shafts (Screw Bag D)

1 Assembly of Rear Shaft
 Zusammenbau der Hinterachse

«Attaching Bevel Gear large» Make 2 sets.
 «Kegelrad gross» 2 Sätze machen.



Counter Gear (Metal Parts Bag)

«Gear Box left»
 «Getriebe-Gehäuse links»

850 Metal Bearing (Plastic Bearing Bag)

Rear Shaft (Hinterachse)

«Gear Box right»
 «Getriebe-Gehäuse rechts»

5mm x 5.5 Spacer (Screw Bag D)

1150 Plastic Bearing (Plastic Bearing Bag)

5mm x 30 Shaft (Screw Bag B)

1150 Plastic Bearing (Plastic Bearing Bag)

3mm Self Tapping Screw (Screw Bag B)

1150 Plastic Bearing (Plastic Bearing Bag)

1150 Plastic Bearing (Plastic Bearing Bag)

1150 Plastic Bearing (Plastic Bearing Bag)

1150 Plastic Bearing (Plastic Bearing Bag)

1150 Plastic Bearing (Plastic Bearing Bag)

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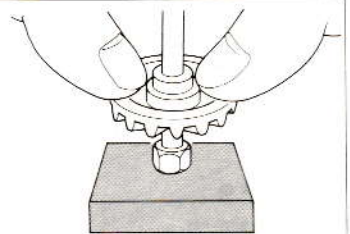
1150 Plastic Bearing (Plastic Bearing Bag)

1150 Plastic Bearing (Plastic Bearing Bag)

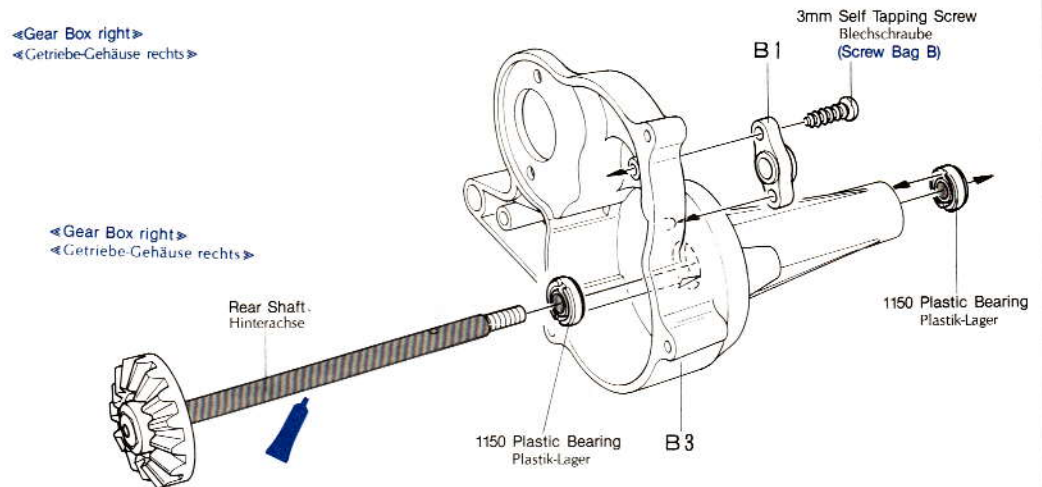
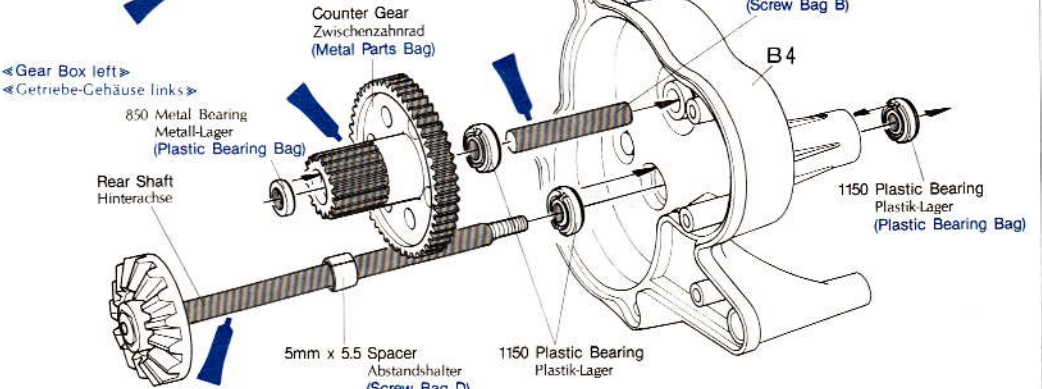
1150 Plastic Bearing (Plastic Bearing Bag)

1150 Plastic Bearing (Plastic Bearing Bag)

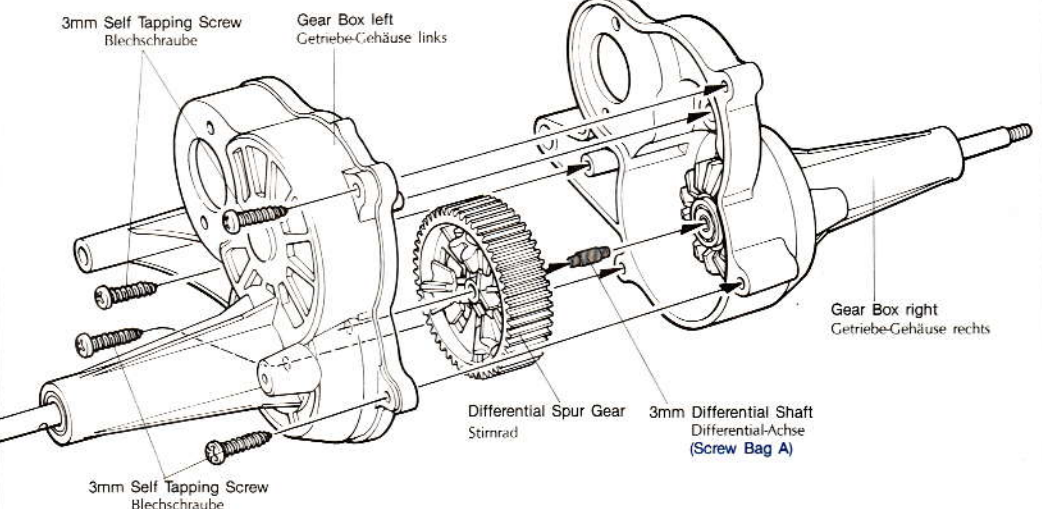
1150 Plastic Bearing (Plastic Bearing Bag)



★ Push completely.
 ★ Voll eindrücken.

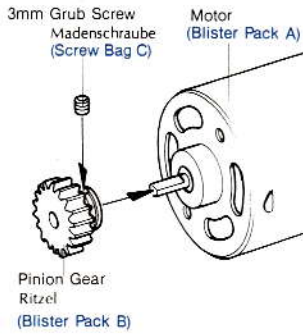


2 Assembly of Gear Box
 Zusammenbau des Getriebes



★ 1150 plastic bearings can be replaced with ball bearings (50036 or 50073)
 ★ Anstelle der 1150 Plastik-Lager können die Kugellager verwendet werden.

3 «Pinion Gear» «Ritzel»



Tighten up with allen-key.
Mit Imbus Schlüssel einschrauben.

* Space 16mm.
* Abstand 16mm

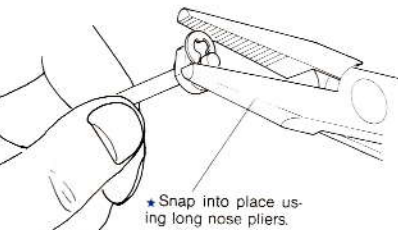
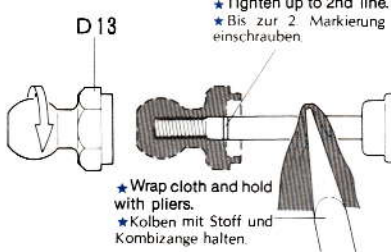
4 «Adjustable Shock Absorber» «Einstellbarer Stossdämpfer»

Assemble adjustable shock absorber in order of 1, 2 and 3. After step 1, fill with oil and then progress to step 2 and 3. Der Dämpfer wird genau der Reihe nach - 1, 2, 3 - zusammengebaut. Nach Baustufe 1 Öl füllen, dann mit Baustufe 2 und 3 fortfahren.

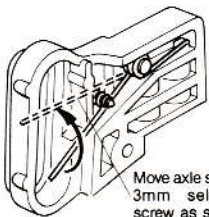
«Free Piston» «Freier Kolben»



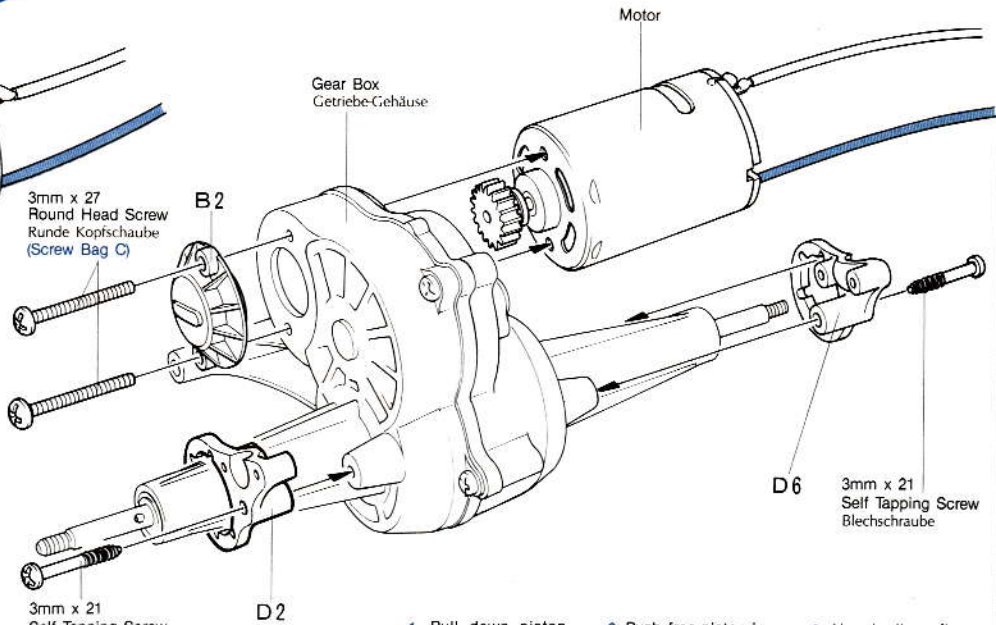
«Attaching D13» «Einbau D13»



5 «Rear Axle Stay» «Hinteres Achslager»

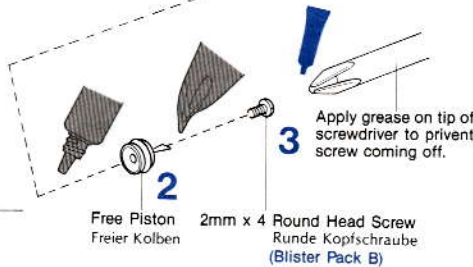
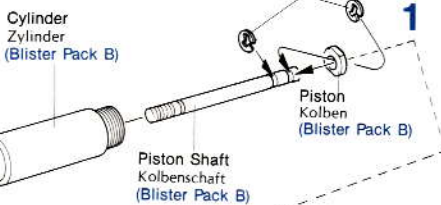


3 Attaching Motor Einbau des Motors



4 Adjustable Shock Absorber Einstellbarer Stossdämpfer

Make 2 sets.
2 Sätze machen



1. Pull down piston and pour oil into cylinder. Remove air bubbles by moving piston up and down.

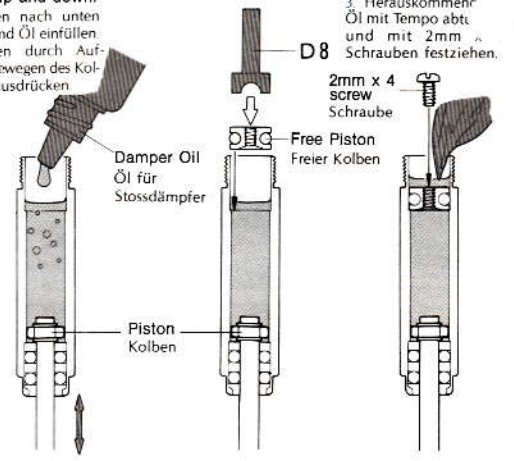
1. Kolben nach unten ziehen und Öl einfüllen. Luftblasen durch Auf- und Abbewegen des Kolben herausdrücken.

2. Push free piston in cylinder with D8.

2. Freien Kolben mit D8 eindrücken.

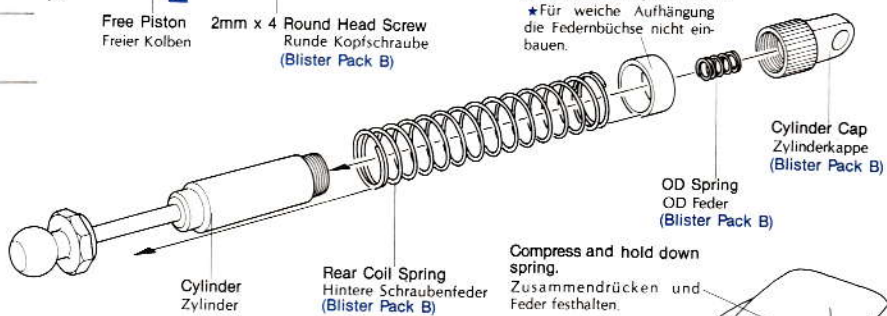
3. Absorb oil overflow with tissue paper, and then tighten up 2mm x 4 screw.

3. Herauskommen Öl mit Tempo abt. und mit 2mm x 4 Schrauben festziehen.



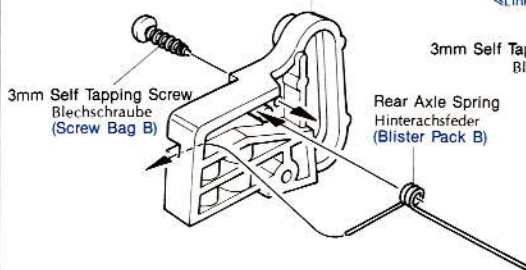
D3

* When you want to make suspension soft, remove it.
* Für weiche Aufhängung die Federbüchse nicht einbauen.



5 Assembly of Rear Axle Stay Zusammenbau der hinteren Achslager

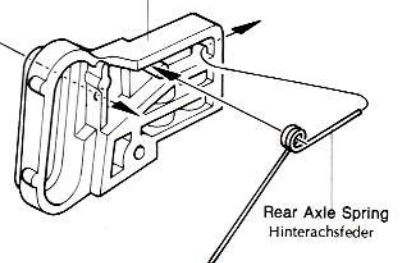
«Right»
«Rechts»



«Left»
«Links»

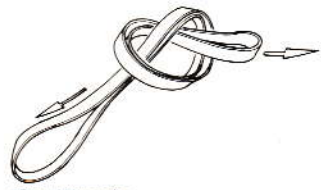
3mm Self Tapping Screw
Blechschaube

D12



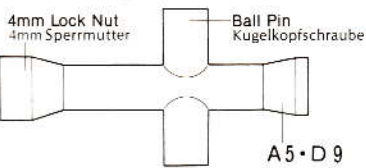
6 «Urethane Band»
«Urethane-Band»

Tie a knot as shown if band is too long.
Wenn Band zu lang, einen Knoten machen.



«Box Wrench»
«Steckschlüssel»

Use box wrench for part A5 and D9, 4mm Lock Nut and Ball Pin.
Steckschlüssel für Teil A5 und D9, 4mm Sperrmutter und Kugelkopfschraube verwenden.



«Test Rotation of Gear»
«Testlauf des Motorritzels»

After assembling gear box, make a rotation test using one dry cell. Check position of shafts, gears and bearings, if gears don't rotate well.

Nach Zusammenbau des Getriebegehäuses prüfe die Drehung des Ritzels mit einer Batterie. Wenn Zahnräder nicht gut drehen, Wellen, Getriebe und Lager prüfen.

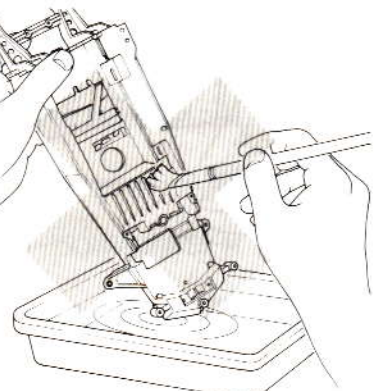
★ Gears should rotate lightly with one dry cell.
★ Zahnräder sollten sich schon mit einer Batterie leicht drehen

«Caution on Thinner and Liquid Thread Lock»

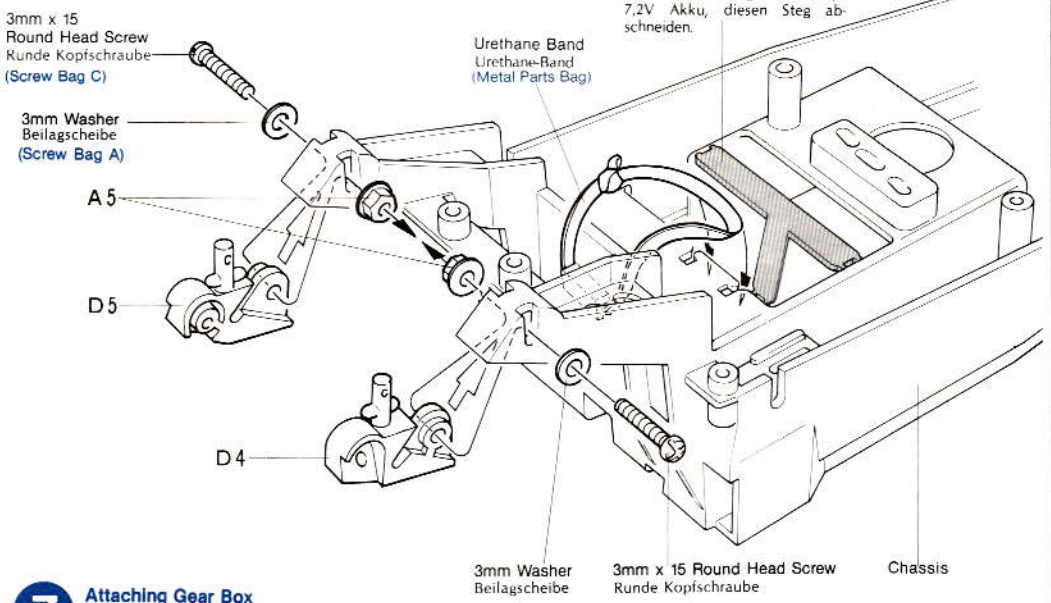
All thinners attack plastic, even plastic model paints and thinners. Never dip parts into thinners or paint, nor wash them with thinners. Be very careful in painting over areas where self tapping screws are used! Make sure to use only Tamiya Liquid Thread Lock to prevent screws from coming loose. Other brands will melt plastic!

«Vorsicht mit Verdüner und Liquid Thread Lock (Schraubensicherung)»

Alle Verdüner greifen Plastikmaterial und sogar die Plastikfarben an. Plastikteile niemals in Verdüner legen oder zu versuchen, Farben mit Verdüner abzuwaschen. Flächen, an denen Schrauben mit Liquid Thread Lock gesichert sind, besonders vorsichtig bemalen. Es gibt Schraubensicherungsmittel, die das Plastikmaterial angreifen oder auflösen, hauptsächlich dort, wo Spannungen durch Schrauben entstehen. TAMIYA LIQUID THREAD LOCK, GREASE/FETT und SPRAYÖL verändert das Plastik-Material nicht. Wir übernehmen keine Haftung für Schäden, die durch andere Marken entstehen. ALSO, NUR TAMIYA LIQUID THREAD LOCK + GREASE/FETT + ÖLSPRAY VERWENDEN.

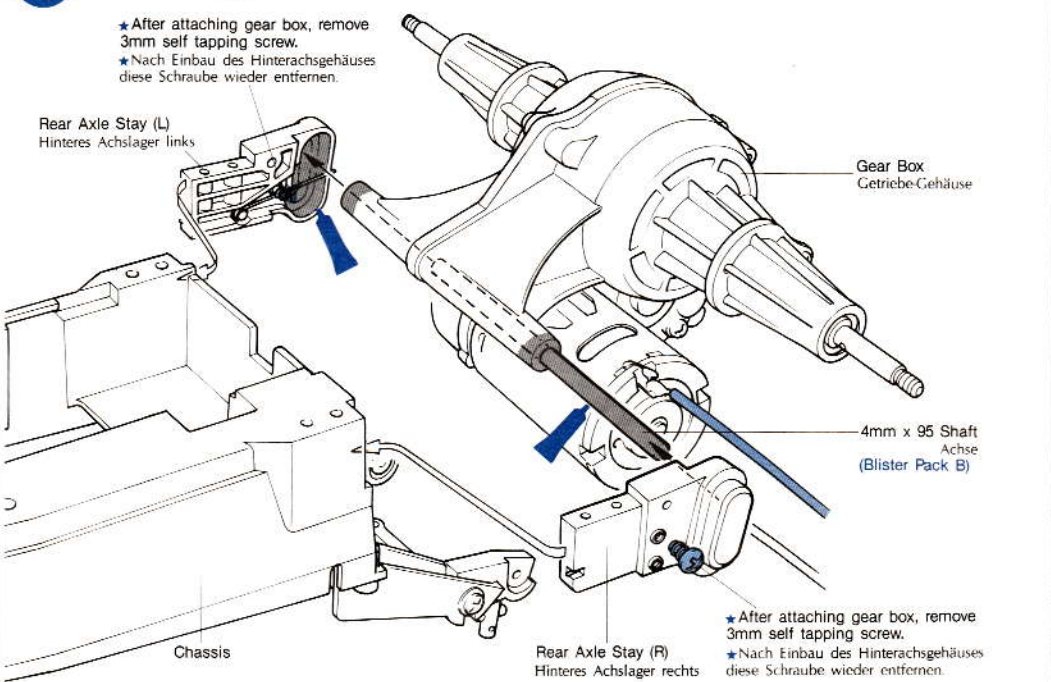


6 Attaching Damper Mounts
Einbau der Stossdämpferlager



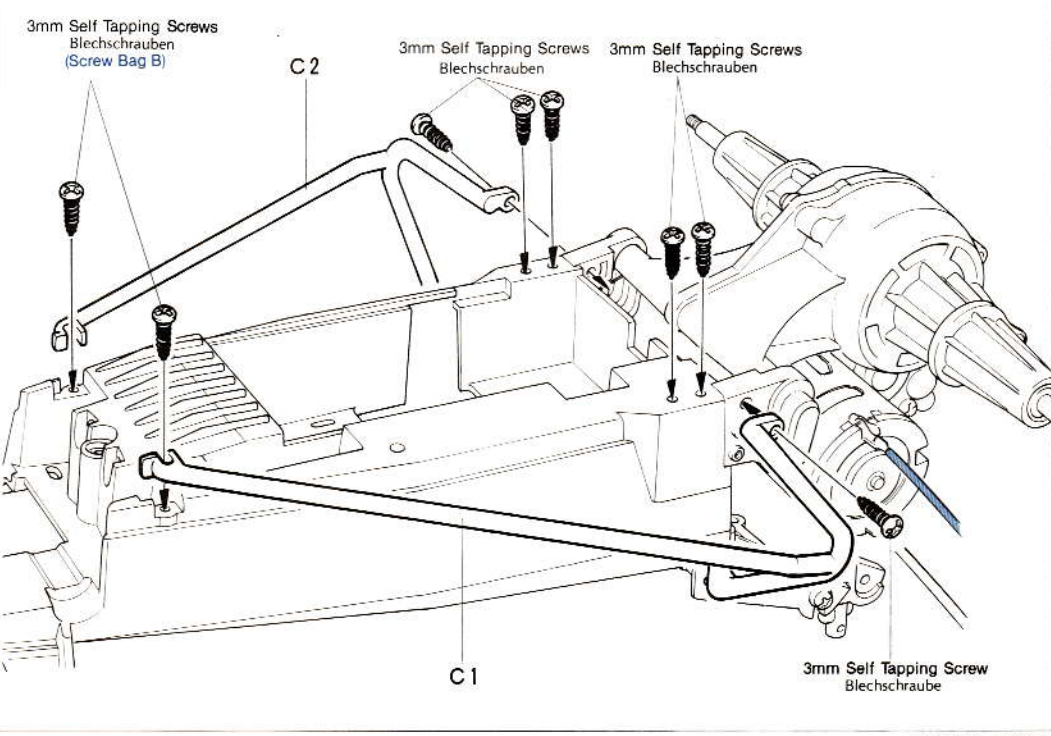
★ Remove if using Tamiya 7.2V regular battery.
★ Bei Verwendung von Tamiya 7.2V Akku, diesen Steg abschneiden.

7 Attaching Gear Box
Einbau des Getriebes



★ After attaching gear box, remove 3mm self tapping screw.
★ Nach Einbau des Hinterachsgehäuses diese Schraube wieder entfernen.

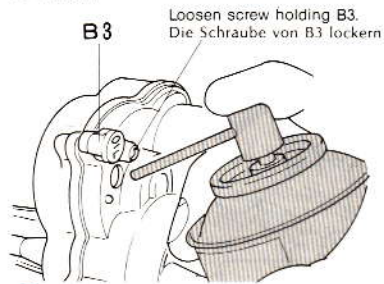
★ After attaching gear box, remove 3mm self tapping screw.
★ Nach Einbau des Hinterachsgehäuses diese Schraube wieder entfernen.



8 «Lubrication of Gears» «Wartung des Getriebes»

Loosen screw holding B3 in place (Attached in step 1). Rotate B3 and lubricate gears well through hole, with spray oil, as shown. Secure B3 into position after oiling.

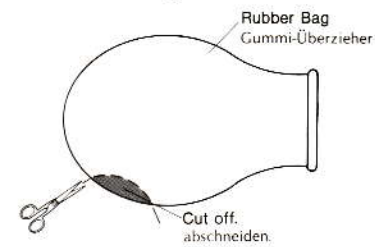
Die Schraube von B3 lockern. B3 drehen und Zahnräder durch das Loch gut schmieren (Öl-Spray). Nach ölen, B3 wieder fest anschrauben.



9 «Rubber Bag» «Gummi-Überzieher»

Rubber bag protects speed controller from moisture and dust. Cut out a part of rubber bag as shown and pass speed controller through it.

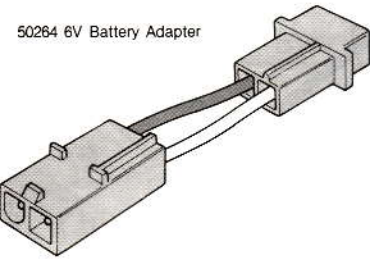
Der Gummi-Überzieher schützt den Fahrregler vor Feuchtigkeit und Staub. Angezeigtes Stück vom Bag abschneiden und Fahrregler einschieben.



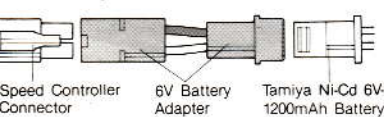
«6V Battery Adapter»

When using Tamiya Ni-Cd 6V-1200mAh battery, use 6V battery adapter (50264).

50264 6V Battery Adapter

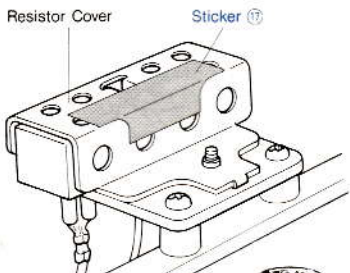


«Attaching 6V Battery Adapter»



«Resistor»

Speed controller will become hot during running. Apply warning label to resistor plate as shown for safety. Be sure to properly adjust speed controller to prevent unnecessary heat build up.

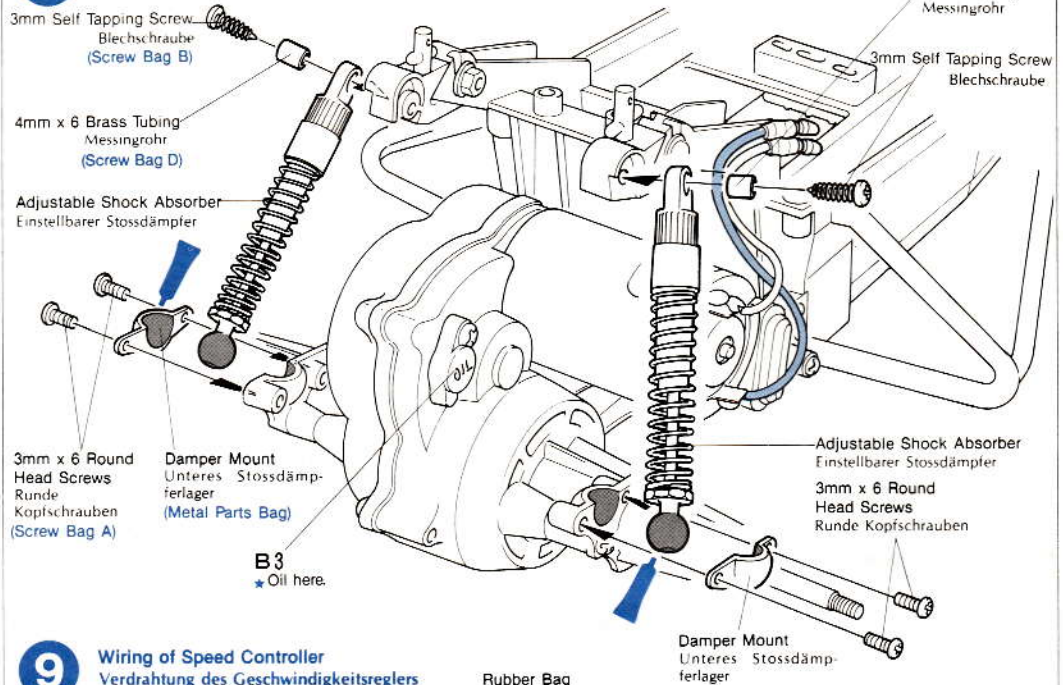


TAMIYA COLOR FOR POLYCARBONATE

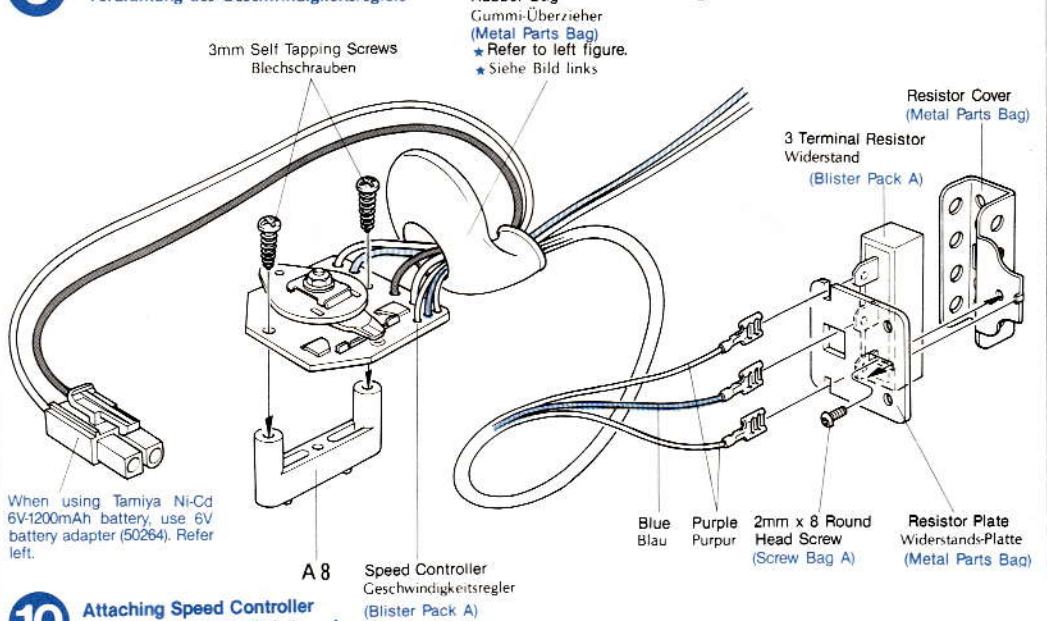
This is a paint to do a fine job on polycarbonate bodies of R/C cars. It can be brushed or sprayed and brushes can be cleaned with water. 18 colors are available. It is collision resistant and durable.



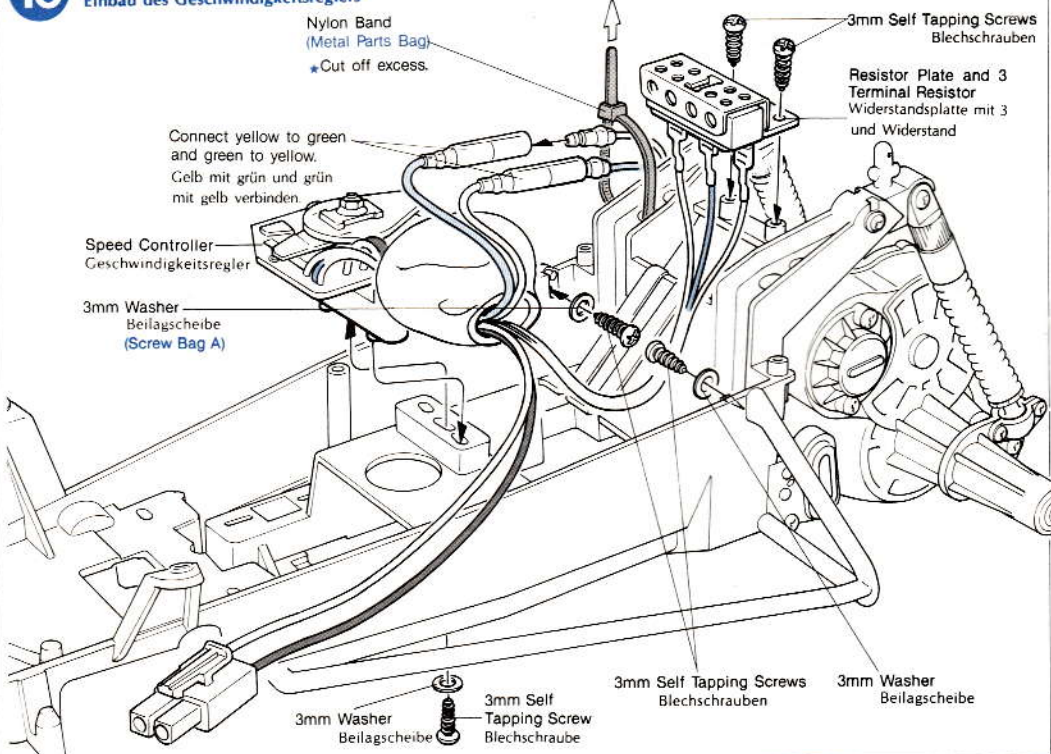
8 Attaching Adjustable Shock Absorbers Einstellbarer Stossdämpfer



9 Wiring of Speed Controller Verdrahtung des Geschwindigkeitsreglers



10 Attaching Speed Controller Einbau des Geschwindigkeitsreglers



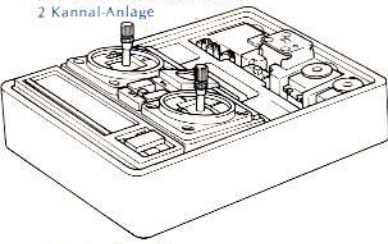
«R/C Equipment»

«R/C Anlage»

This kit requires a 2 channel 2 servo digital proportional radio. Be sure to read through the manual for your radio first, then start assembly.

Dieses Model ist für den Einbau einer 2-Kanal-Anlage mit 2 Servos ausgelegt. Anleitung von Fernlenkung erst gut lesen, dann mit Bauen beginnen.

2 channel radio control unit
2 Kanal-Anlage



Batteries for radio
Batterie für Anlage



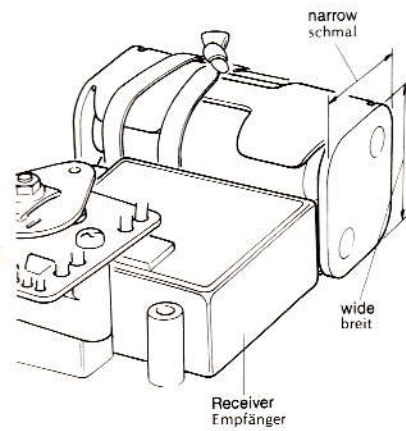
Use new batteries. It's impossible to control correctly if voltage drops.

Nur neue Batterien oder Akkus verwenden. Bei Schwanken der Stromstärke kann das Fahrzeug nicht genau gesteuert werden.

11 «Receiver Battery»
«Empfänger Batterie»

Install receiver as shown below when using the 7.2V Racing Pack.

Empfänger wie gezeigt einbauen wenn 7,2V Racing Pack verwendet wird. Die Schmalseiten des Akku's sind oben und unten.



TAMIYA CRAFT TOOLS
ANGLED TWEEZERS



ITEM 74003

SIDE CUTTER for PLASTIC



ITEM 74001

(+)SCREWDRIVER-L



ITEM 74006

(+)SCREWDRIVER-M



ITEM 74007

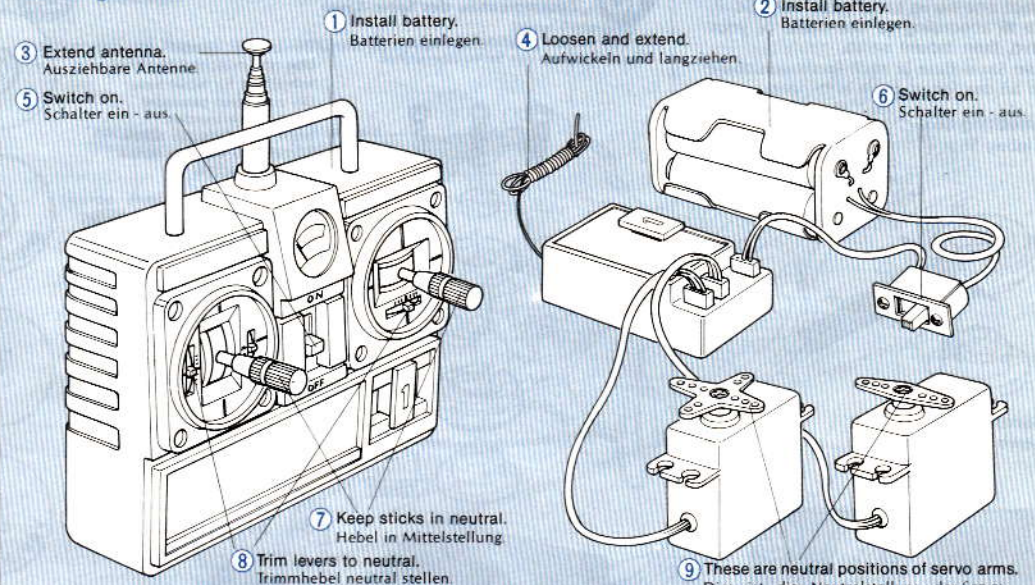
(-)SCREWDRIVER-M



ITEM 74008

«R/C Equipment»
«R/C Anlage»

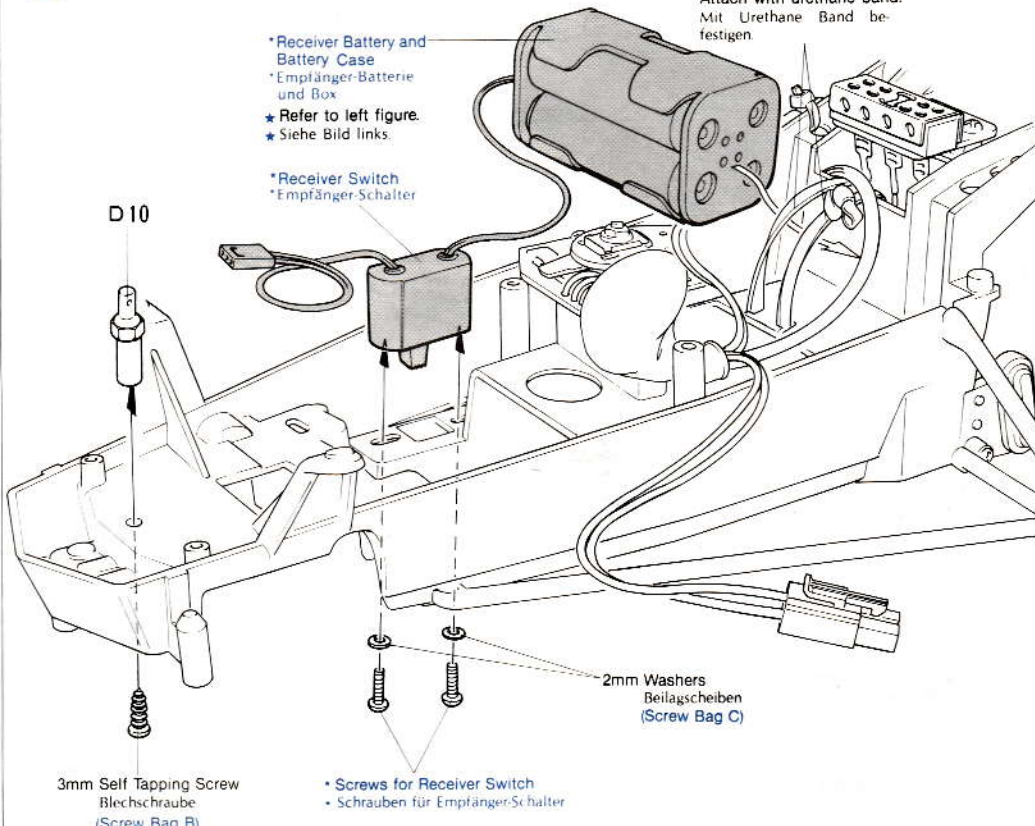
Check out R/C equipment in sequence.
Funkfernsteueranlage nach Anleitung überprüfen.



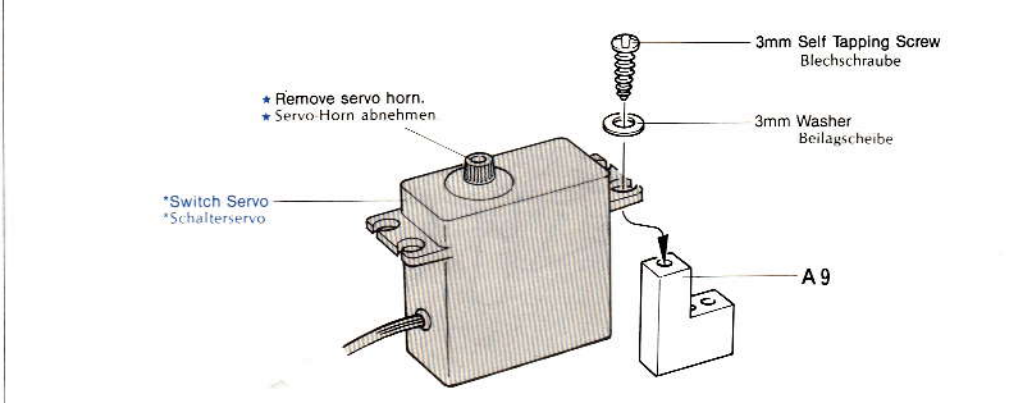
Note: When you attach servo saver and servo horn to servos, make sure servos are in neutral. Check neutral position by switching on transmitter and receiver.
Bitte beachten: beim Aufsetzen des Servo-Saver und der Servo-Hörner darauf achten, dass Servos in Neutralstellung sind. Diese kann überprüft werden, wenn man Sender und Empfänger einschaltet.

11 Attaching Receiver Switch
Einbau des Empfänger-Schalters

Parts marked * are not contained in kit.
Teile mit * sind nicht im Kit enthalten.



12 Attaching Switch Servo Stay
Anbringung des Schalter-Servo-Halter A9



13 <<Servo Saver Base>> <<Steuer-Schubstangen>>

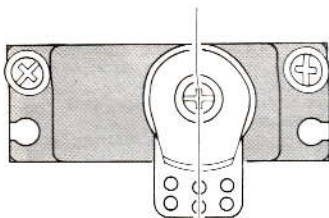
Select one servo saver base from S4, 7, 8 or 10 according to the make of your servo, then mount servo.
Servo Saver Base je nach Servo auswählen und an das Steuer Servo anbringen.

<<Attaching S6>> <<Einbau S6>>

Spread by rotating screwdriver.
Mit Schraubenzieher etwas auseinanderdrücken.

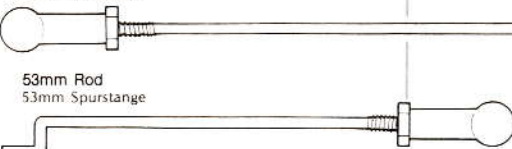


<<Servo Saver>> <<Servo Saver>>



★ Attach servo saver as shown with servo at neutral.
★ Servo-Saver anbringen, wenn Servo auf neutral steht.

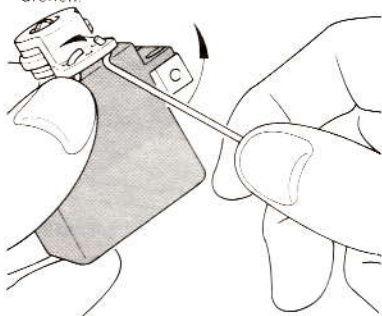
<<Steering Rods>> <<Steuer-Schubstangen>> 65mm Rod 65mm Spurstange



53mm Rod
53mm Spurstange

<<Attaching Rod>> <<Einsetzen der Servo-Schubstangen>>

Insert rod and move as shown.
Schubstange einsetzen und wie gezeigt drehen.



TAMIYA CRAFT TOOLS STRAIGHT TWEEZERS



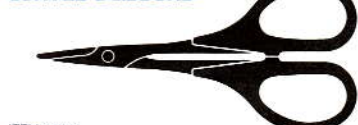
ITEM 74004

LONG NOSE w/CUTTER



ITEM 74002

CURVED SCISSORS



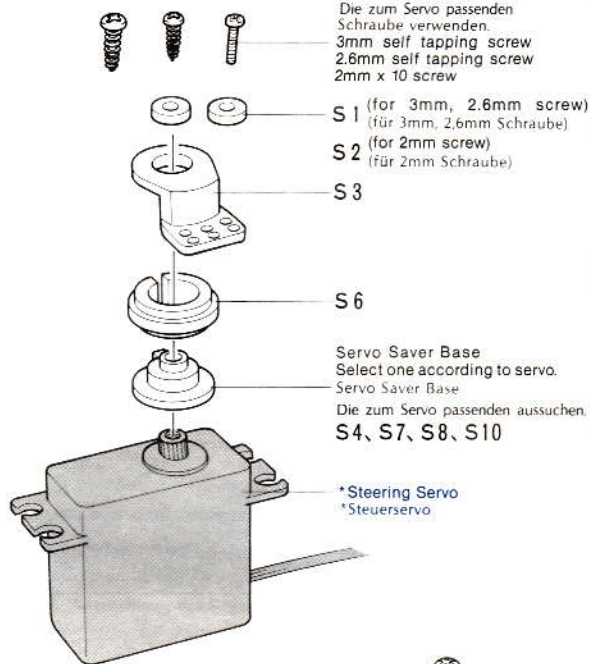
ITEM 74005



SWITCH LUBRICANT
Specially formulated for use on R/C Speed Controllers to reduce arcing, prevent pitting and corrosion and improve current flow. It will maintain its viscosity over a wide temperature range and prolongs the life of the controller.

13 Assembly of Servo Saver Zusammenbau des Servo-Saver

Check neutral position of servo.
Neutralstellung des Servo überprüfen.



Servo Saver Screw
Use one matched to servo.
Schrauben für Servo Saver
Die zum Servo passenden
Schraube verwenden.
3mm self tapping screw
2.6mm self tapping screw
2mm x 10 screw

S1 (for 3mm, 2.6mm screw)
(für 3mm, 2.6mm Schraube)
S2 (for 2mm screw)
(für 2mm Schraube)

Servo Saver Base
Select one according to servo.
Servo Saver Base
Die zum Servo passenden aussuchen.
S4, S7, S8, S10

* Steering Servo
* Steuerservo

Servo Saver Base
Servo Saver Base



S4
FUTABA

Servo Saver Screw
Schrauben für Servo Saver

2.6mm self tapping screw
2.6mm Blechschraube
(Screw Bag C)



S7
SANWA
ACOMS
JR
KO

3mm self tapping screw
3mm Blechschraube
(Screw Bag B)



S8
FUTABA

2mm x 10 screw
2mm x 10 Schraube
(Screw Bag A)



S10
ACOMS

2mm x 10 screw
2mm x 10 Schraube

3mm Self Tapping Screw
Blechschraube
(Screw Bag B)
3mm Washer
Beilagscheibe
(Screw Bag A)
65mm Rod
Spurstange
(Metal Parts Bag)

3mm Self Tapping Screw
Blechschraube

3mm Washer
Beilagscheibe

53mm Rod
Spurstange
(Metal Parts Bag)

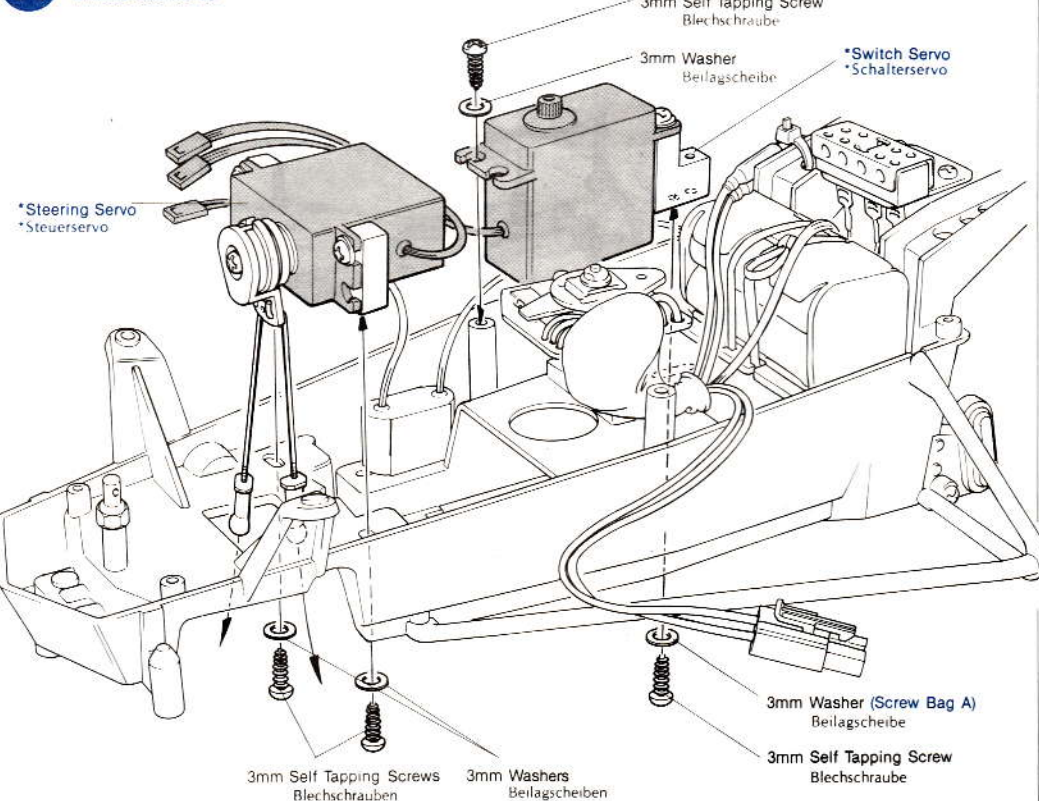
Ball Joint
Kugelkopf

Tighten to approx. 8mm.
Höchstens 8mm einschrauben

Ball Joint
Kugelkopf
(Metal Parts Bag)
Tighten to approx. 5mm.
Höchstens 5mm einschrauben.

A4

14 Attaching Servos Einbau der Servo



* Steering Servo
* Steuerservo

3mm Self Tapping Screw
Blechschraube

3mm Washer
Beilagscheibe

* Switch Servo
* Schalterservo

3mm Washer (Screw Bag A)
Beilagscheibe

3mm Self Tapping Screw
Blechschraube

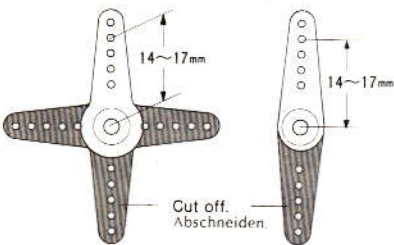
3mm Self Tapping Screws
Blechschrauben

3mm Washers
Beilagscheiben

15 «Servo Control Horn»
«Servohorn»

The shape of servo control horns vary from manufacturer to manufacturer. Cut off shaded area of your servo horns as shown.

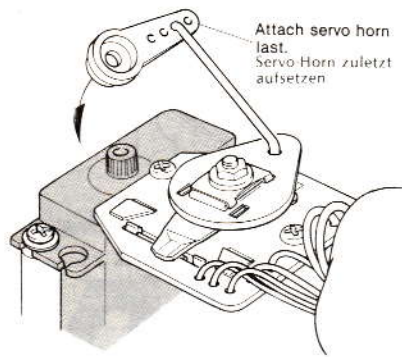
Je nach Hersteller sind die Servohörner verschieden. Schraffierte Flächen von Servohorn abschneiden.



«Switch Rod»
«Schalter-Schubstange»

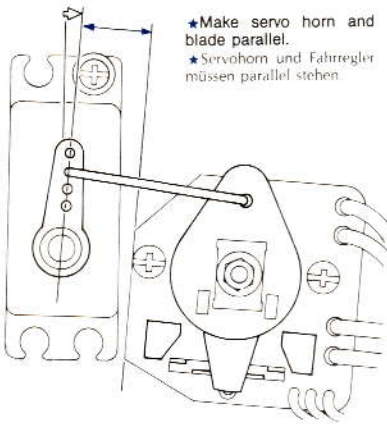
File corner off with a file. Die Kante der Schubstange etwas abschleifen, darf nicht auf Reglerplatte schleifen.

«Attaching Switch Rod»
«Aufsetzen der Schalter Schubstange»



Attach servo horn last. Servo Horn zuletzt aufsetzen

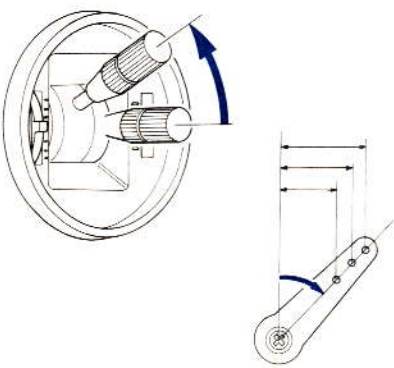
★Make servo horn and blade parallel.
★Servohorn und Fahrregler müssen parallel stehen.



16 «Servo Horn & Stroke»
«Servo Horn und Ausschlag»

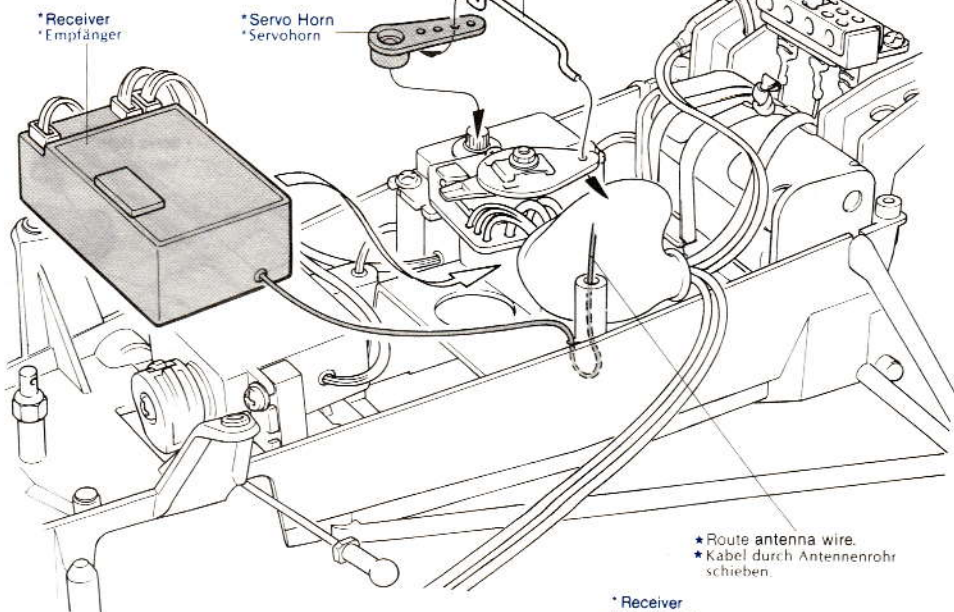
Movement of switch, steering or shaft can be altered by changing hole position of servo horn. The closer to the axis the hole is, the smaller the movement becomes, and the farther from the axis, the longer the throw.

Schalter, Steuerung oder Schaltung kann verändert werden durch wechseln der Löcher im Servohorn.

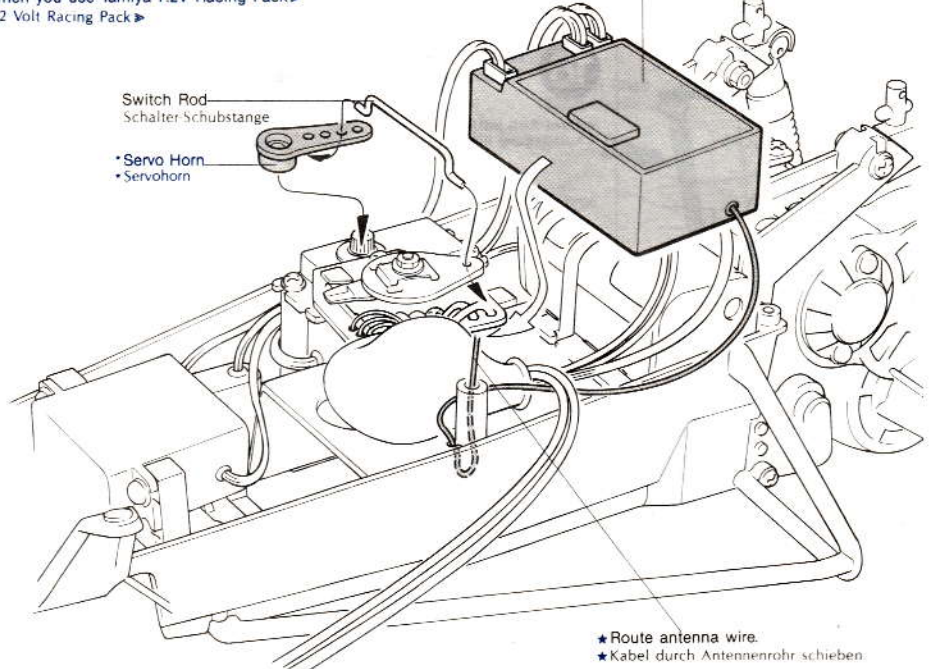


15 Attaching Receiver Empfänger

«When you use Tamiya 7.2V or 6V-1200mAh Battery»
«7.2 oder 6 Volt Akku»



«When you use Tamiya 7.2V Racing Pack»
«7.2 Volt Racing Pack»



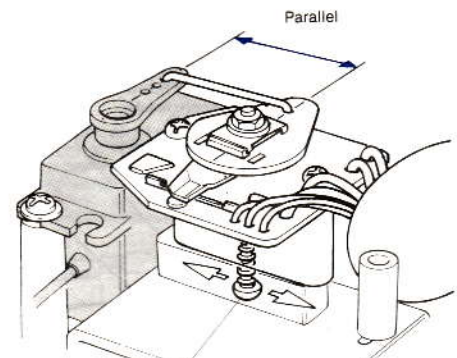
16 Adjustment of Speed Controller Einstellen des Fahrreglers

Move the neutral position of servo horn with TRIM LEVER to make servo horn and blade parallel.

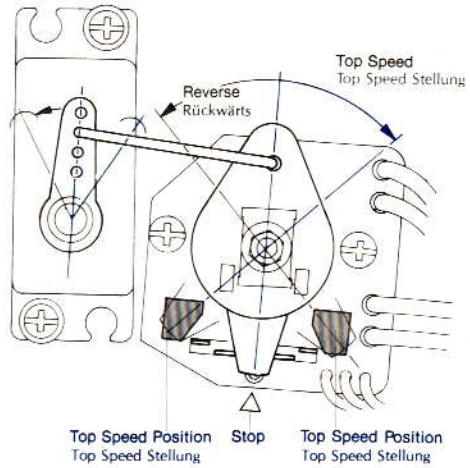
Man kann auch die Neutralstellung des Servo-Horn mit dem Trimschieber etwas verändern, sodass Horn und Zunge parallel stehen.

Adjust hole position of servo horn so that switch blade moves to the place shown when transmitter stick is pushed full up and down.

Loch im Servohorn so wählen, dass Schalterzunge sich richtig bewegen kann, wenn Senderhebel voll nach oben oder unten gedrückt wird.

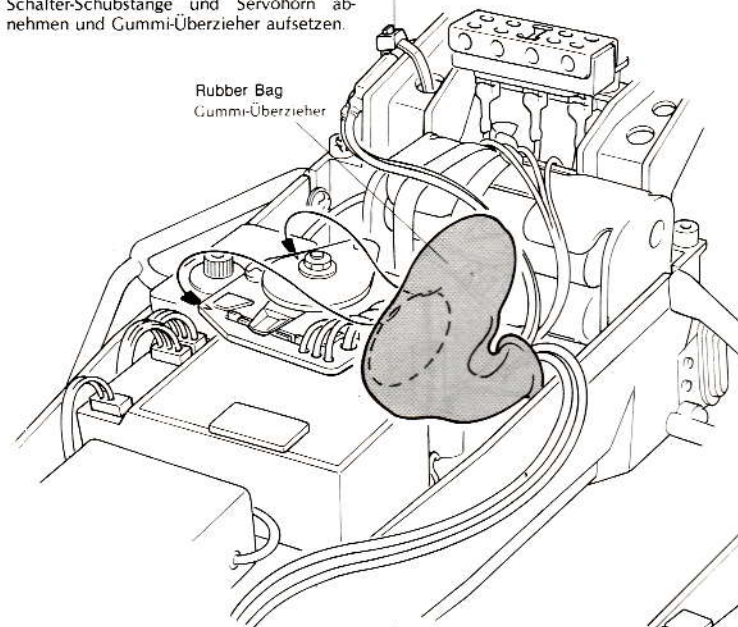


Adjust position of speed controller to make servo horn and blade parallel at stop position. Servo-Horn und Schalterzunge müssen parallel bei Stop stehen, evtl. etwas nachstellen.



17 «Attaching Rubber Bag»
«Gummi-Überzieher»

Remove switch rod and servo horn, and then cover speed controller.
Schalter-Schubstange und Servohorn abnehmen und Gummi-Überzieher aufsetzen.

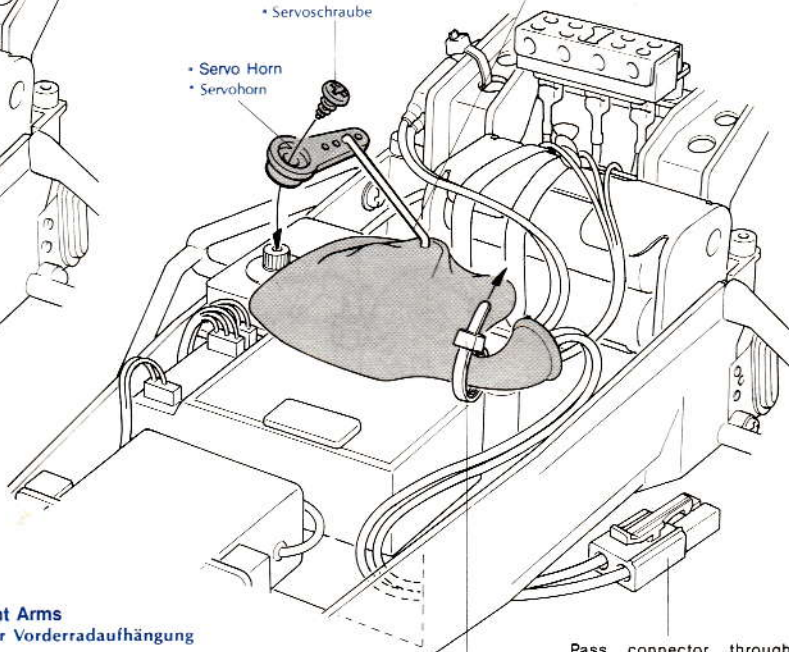


Rubber Bag
Gummi-Überzieher

17 Attaching Rubber Bag
Gummi-Überzieher

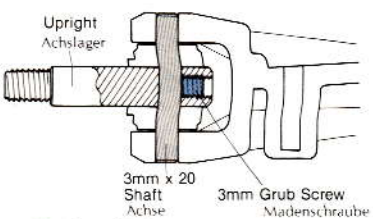
Push switch rod through hole in rubber bag.
Schalter-Schubstange durch Überzieher stecken

• Servo Horn Screw
• Servoschraube
• Servo Horn
• Servohorn



18 «3mm x 20 Shaft»
«3mm x 20 Achse»

Attach 3mm x 20 shaft firmly with 3mm grub screw.
Die Achse wird mit 3mm Madenschraube gehalten.



Upright
Achslager
3mm x 20 Shaft
Achse
3mm Grub Screw
Madenschraube

«Tapping of A13»
«Zusammenschrauben von A13»
Tap A13 with damper shaft before attaching it.
Vor Einbau, A13 mit Welle einschrauben.

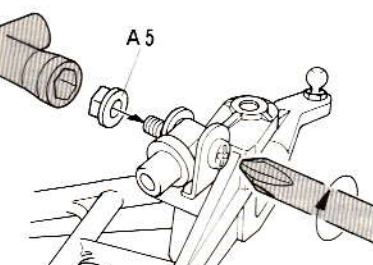
* Tap by screwing in all threads.
* Das Gewindeteil ganz einschrauben.



Damper Shaft
Use one as a tap and another as a tool.
Dämpfwellen
Eines als Welle, das andere als Werkzeug verwenden.

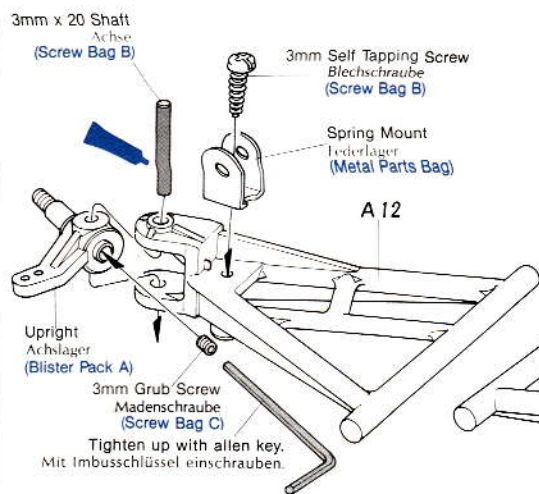
«Tightening up of A5»
«Einschrauben der Mutter A5»

* Screw straight in with box wrench.
* Gerade mit Steckschlüssel einschrauben.



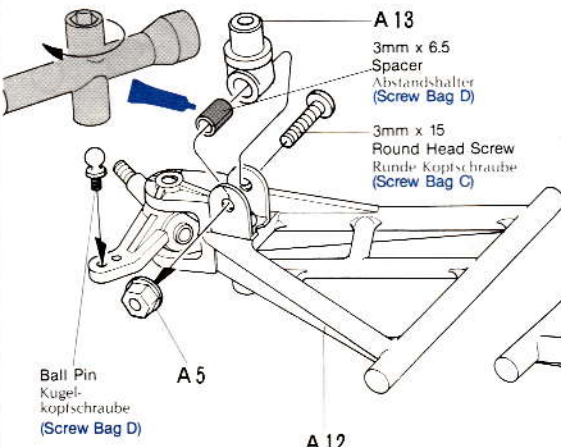
18 Assembly of Front Arms
Zusammenbau der Vorderradaufhängung

«Front Arm left»
«Aufhängung links»



3mm x 20 Shaft
Achse (Screw Bag B)
3mm Self Tapping Screw
Blechschräube (Screw Bag B)
Spring Mount
Federlager (Metal Parts Bag)
A 12
Upright
Achslager (Blister Pack A)
3mm Grub Screw
Madenschraube (Screw Bag C)
Tighten up with allen key.
Mit Imbusschlüssel einschrauben.

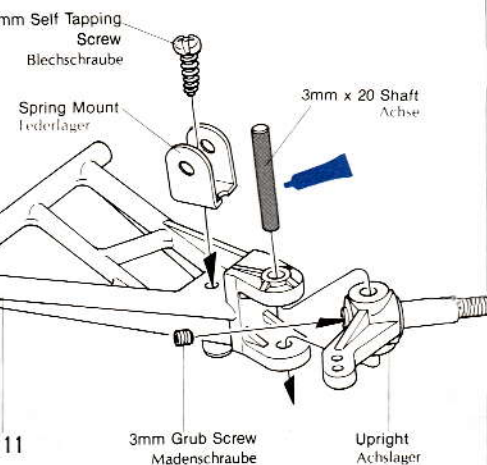
Attach ball pin with box wrench.
Kugelhkopfschraube mit Steckschlüssel einschrauben



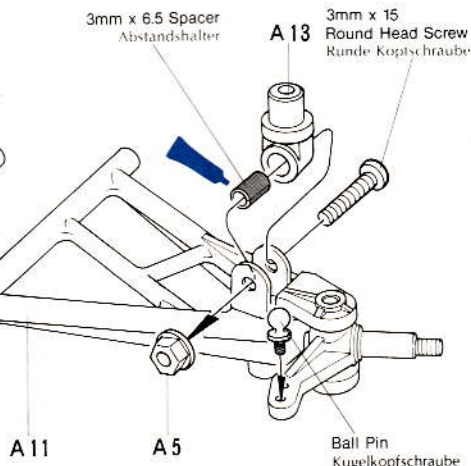
A 13
3mm x 6.5 Spacer
Abstandshalter (Screw Bag D)
3mm x 15 Round Head Screw
Runde Kopfschraube (Screw Bag C)
Ball Pin
Kugelhkopfschraube (Screw Bag D)
A 12

Bunch up with nylon band.
* Cut off excess.
Mit Nylon-Clipse Kabel binden
* Überlänge abschneiden.

«Front Arm right»
«Aufhängung rechts»



3mm Self Tapping Screw
Blechschräube
Spring Mount
Federlager
A 11
3mm x 20 Shaft
Achse
3mm Grub Screw
Madenschraube
Upright
Achslager

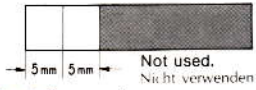


3mm x 6.5 Spacer
Abstandshalter
A 13
3mm x 15 Round Head Screw
Runde Kopfschraube
Ball Pin
Kugelhkopfschraube
A 11
A 5

Pass connector through chassis.
Akku-Kupplung durch Chassis herausziehen.

20 «Rubber Tubing»
«Gummirohr»

- *Make two 5mm lengths.
- *Mache 2 Stück Gummirohr mit je 5mm.



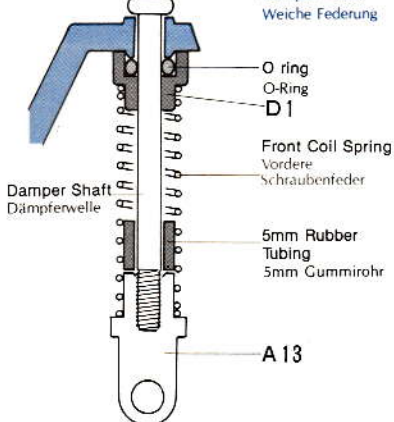
«Front Suspension»
«Vordere Aufhängung»

Number of O rings is changeable. Put 2 rings in D7 for stiffer effect, one in D1 for soft.

Es können auch 2 O-Ringe eingebaut werden. Für harte Federung auf jeden Fall zwei O-Ringe nehmen.

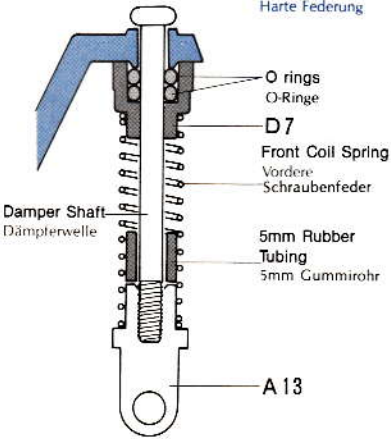
For flat surface
Für Flachbahn-Piste

Damper - Soft
Weiche Federung

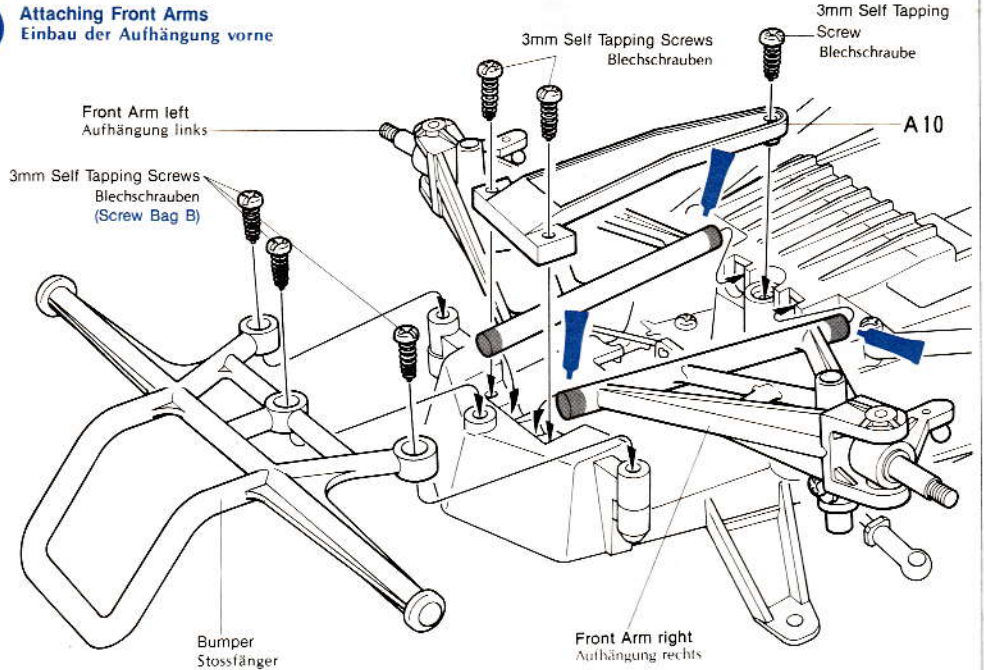


For rough terrain
Für Gelände-Off-Road

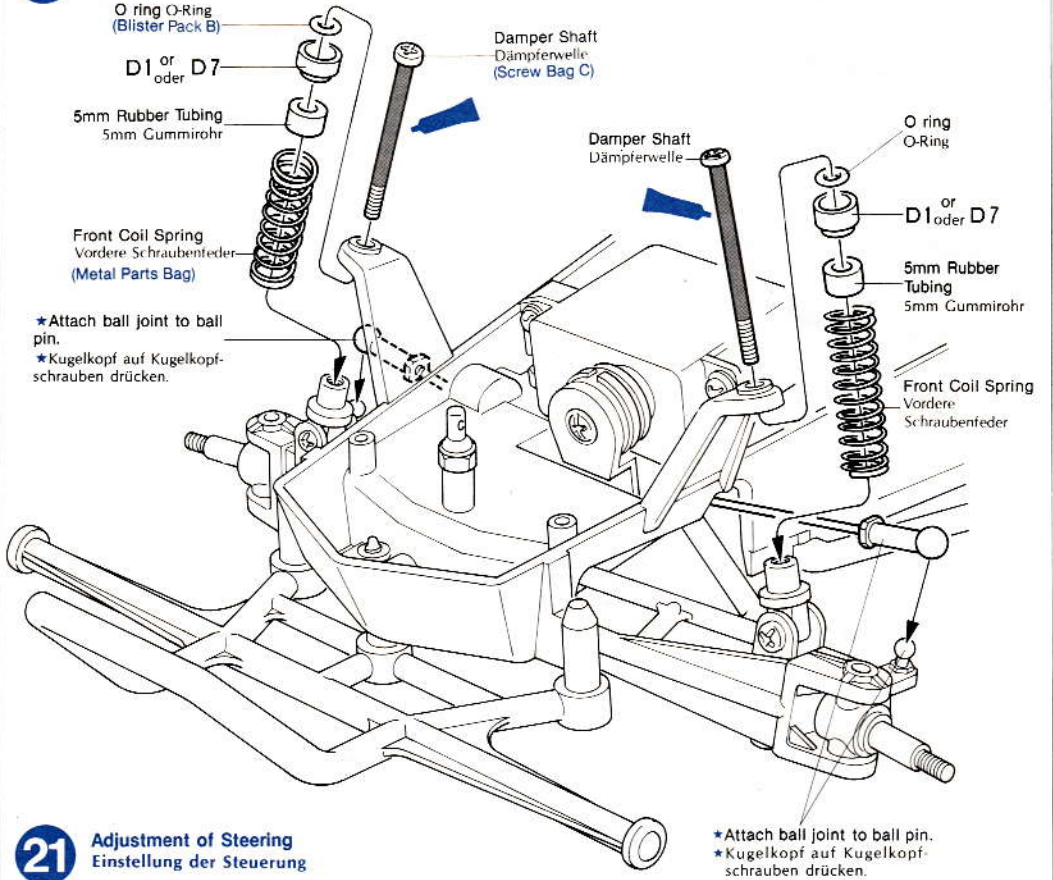
Damper - Stiff
Harte Federung



19 Attaching Front Arms
Einbau der Aufhängung vorne



20 Attaching Front Coil Springs
Einsetzen der vorderen Schraubenfedern

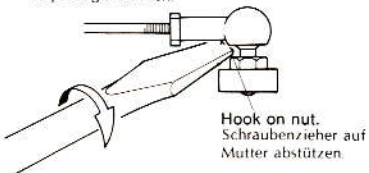


- *Attach ball joint to ball pin.
- *Kugelkopf auf Kugelkopfschrauben drücken.

- *Attach ball joint to ball pin.
- *Kugelkopf auf Kugelkopfschrauben drücken.

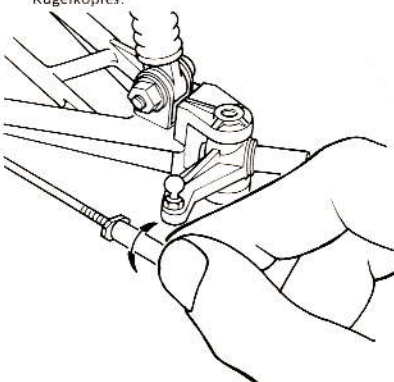
21 «Removing Ball Joint»
«Abnahme des Kugelkopfes»

- *Twist screwdriver to remove ball joint.
- *Mit Schraubenzieher (wie gezeigt) wird Kugelkopf abgenommen



«Adjustment of Rod Length»
«Einstellen der Schubstangenlänge»

- *Adjust length by rotating ball joint.
- *Einstellen der Länge durch drehen des Kugelkopfes.

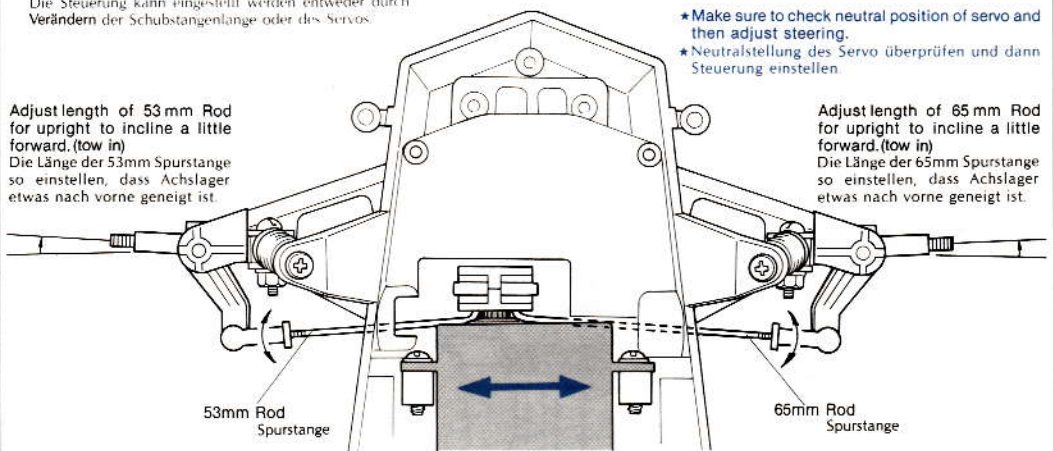


21 Adjustment of Steering
Einstellung der Steuerung

Adjust steering by changing length of rods or changing position of servo.
Die Steuerung kann eingestellt werden entweder durch Verändern der Schubstangenlänge oder des Servos.

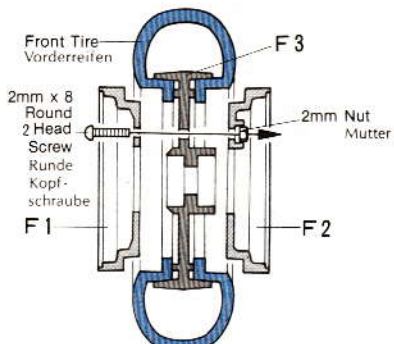
Adjust length of 53mm Rod for upright to incline a little forward. (low in)
Die Länge der 53mm Spurstange so einstellen, dass Achslager etwas nach vorne geneigt ist.

Adjust length of 65mm Rod for upright to incline a little forward. (low in)
Die Länge der 65mm Spurstange so einstellen, dass Achslager etwas nach vorne geneigt ist.



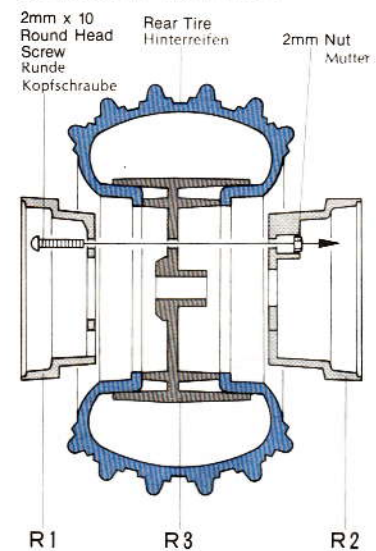
- *Make sure to check neutral position of servo and then adjust steering.
- *Neutralstellung des Servo überprüfen und dann Steuerung einstellen.

22 «Front Wheel»
«Vorderrad»



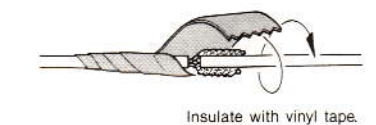
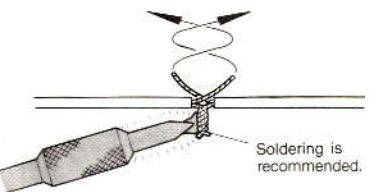
«Rear Wheel»
«Hinterrad»

Hard rubber is used in rear tires for maneuverability. Push R3 into tire as shown, then rotate 90 degrees to place into position.
Es ist schwer hineinzustossen Rad (R3). Erst den hineinstossen, dann drehen.

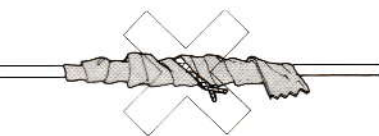


«Wiring»

When insulating worn cable etc., make sure to insulate properly with vinyl tape in order to avoid short circuit.



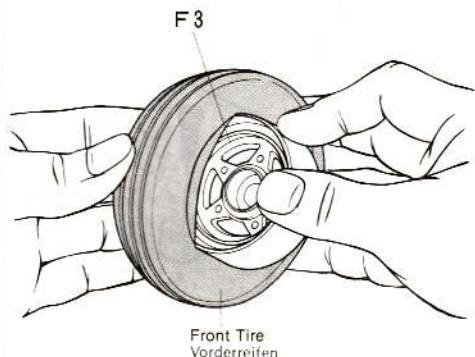
Improper insulating of cables will result in short circuit.



22 Assembly of Wheels
Zusammenbau der Räder

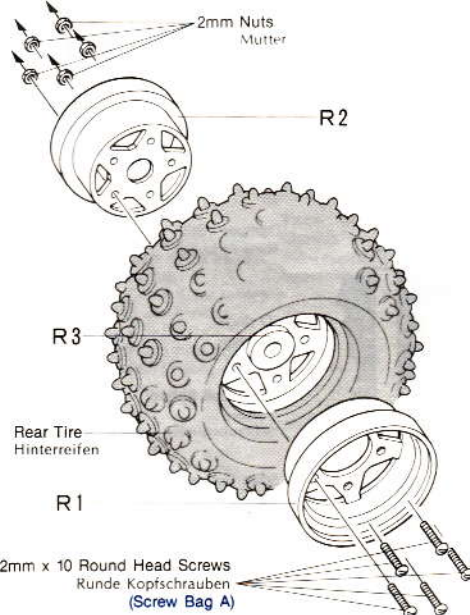
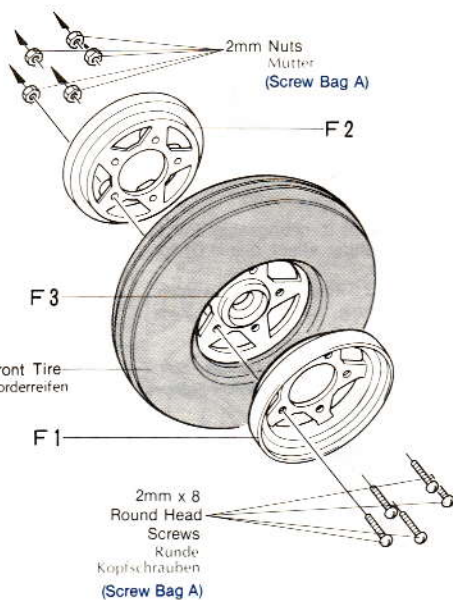
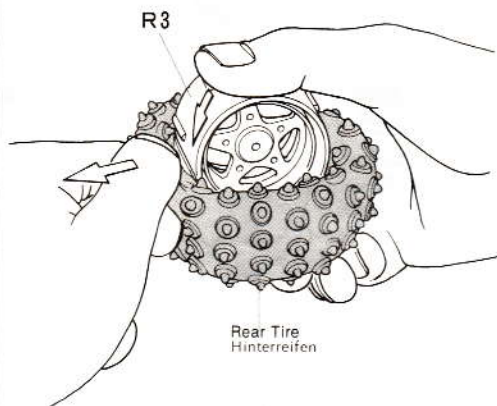
«Front Wheel» Make 2 Sets.
«Vorderrad» 2 Sätze machen.

Insert F3 to front tires as shown.
Innenfelge F3 in Vorderreifen wie gezeigt einstecken.

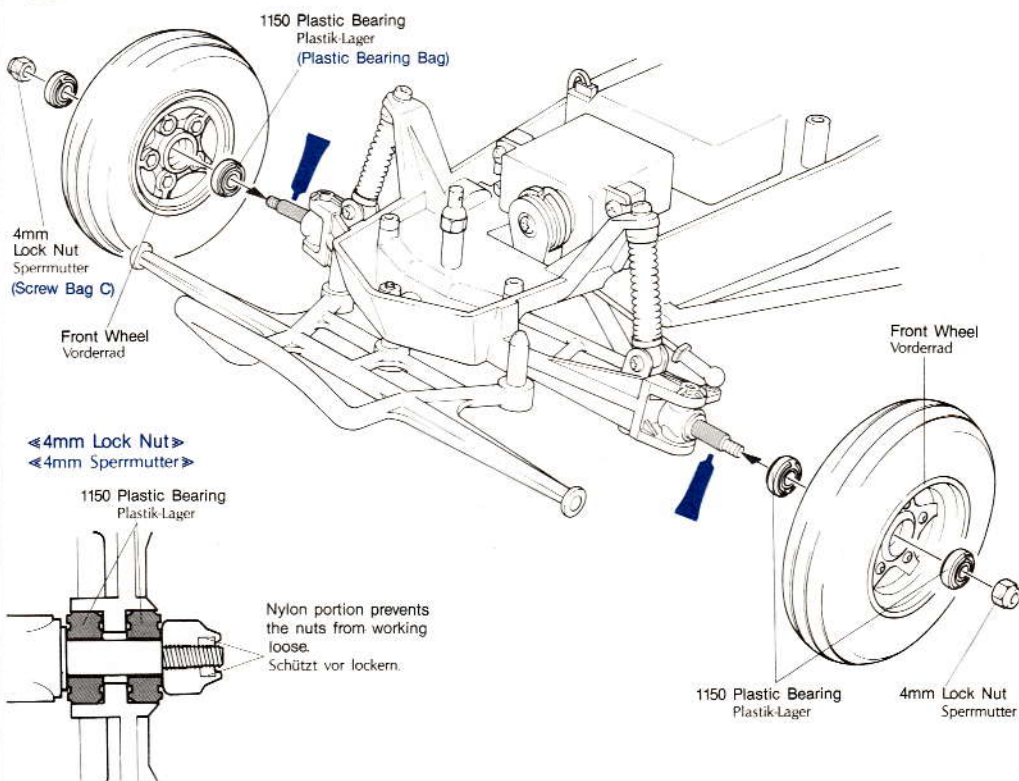


«Rear Wheel» Make 2 Sets.
«Hinterrad» 2 Sätze machen.

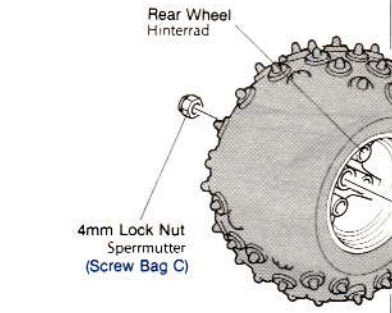
Push R3 into tire.
Felgen R3 in Reifen stecken.



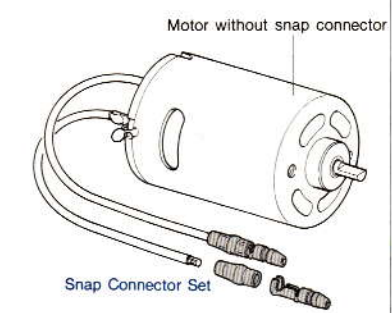
23 Attaching Front Wheels
Einbau der Vorderräder



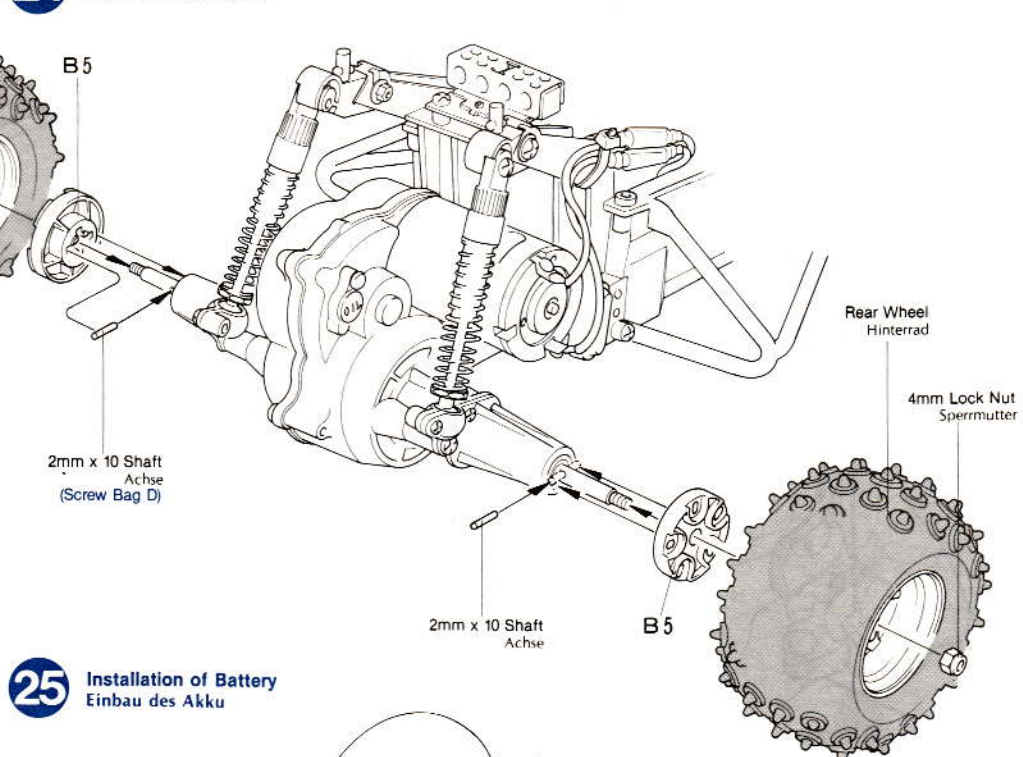
24 Attaching Rear Wheels
 Einbau der Hinterräder



★ Attach snap connectors if the motor does not have one.



24 Attaching Rear Wheels
 Einbau der Hinterräder

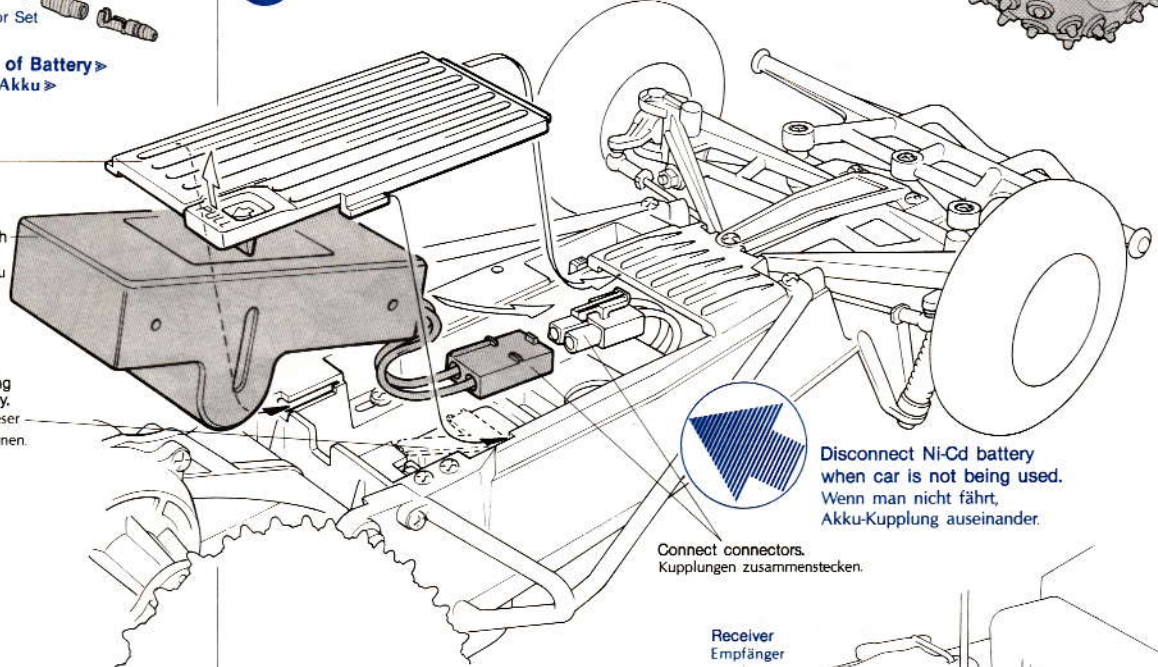


25 Installation of Battery
 Einbau des Akku

25 Installation of Battery
 Einbau des Akku

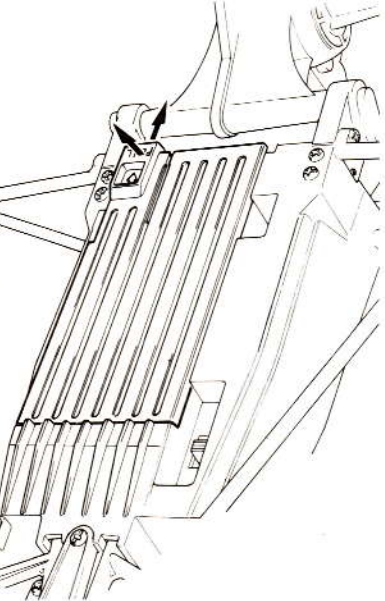
- Tamiya 7.2V-1200mAh Battery
- Tamiya NC 7.2V Akku

★ Remove when using regular 7.2V battery.
 ★ Bei Verwendung dieser 7.2V Batterie entfernen.



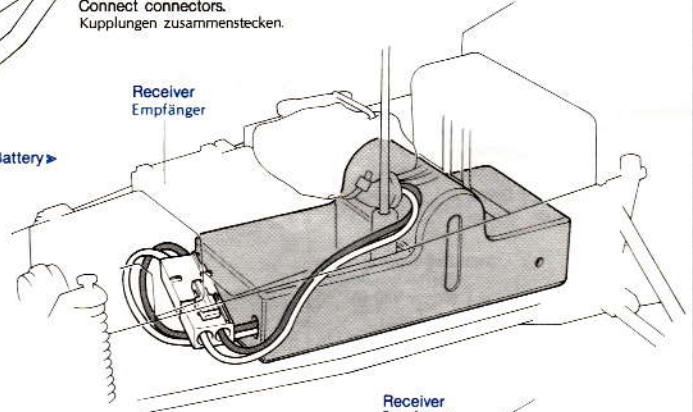
Disconnect Ni-Cd battery when car is not being used.
 Wenn man nicht fährt, Akku-Kupplung auseinander.

«How to remove C3»
 «Wie man den Akku-Deckel abnimmt»
 Move to arrow and pull up.
 In Pfeilrichtung ziehen und abnehmen.



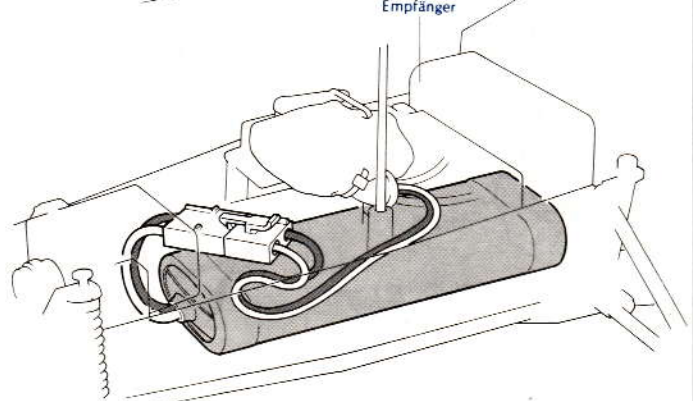
«When you use Tamiya 7.2V- or 6V-1200mAh Battery»
 «7.2 oder 6 Volt Akku»

- ★ Put connectors in front space.
- ★ Kupplung im vorderen Teil unterbringen.



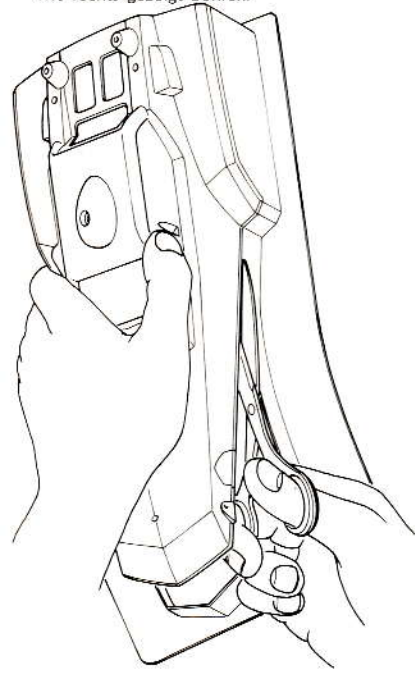
«When you use Tamiya 7.2V Racing Pack»
 «7.2 Volt Racing Pack»

- ★ Mount connectors on battery.
- ★ Kupplung und Tamiya Akku's

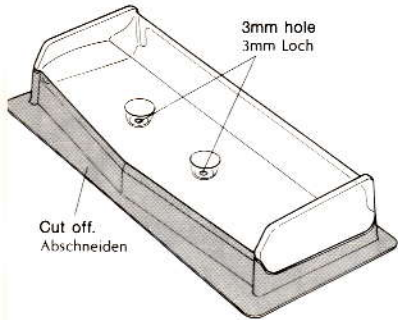


26 << Trimming of Body >> << Zurichten der Karosserie >>

- ★ Cut off shaded part and drill holes as shown at right.
- ★ Schraffierte Teile abschneiden und Löcher wie rechts gezeigt bohren.



<< Trimming of Wing >> << Spoiler >>

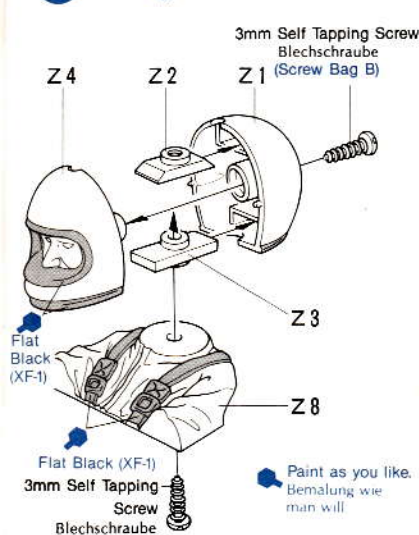


27 << Painting >> << Bemalung >>

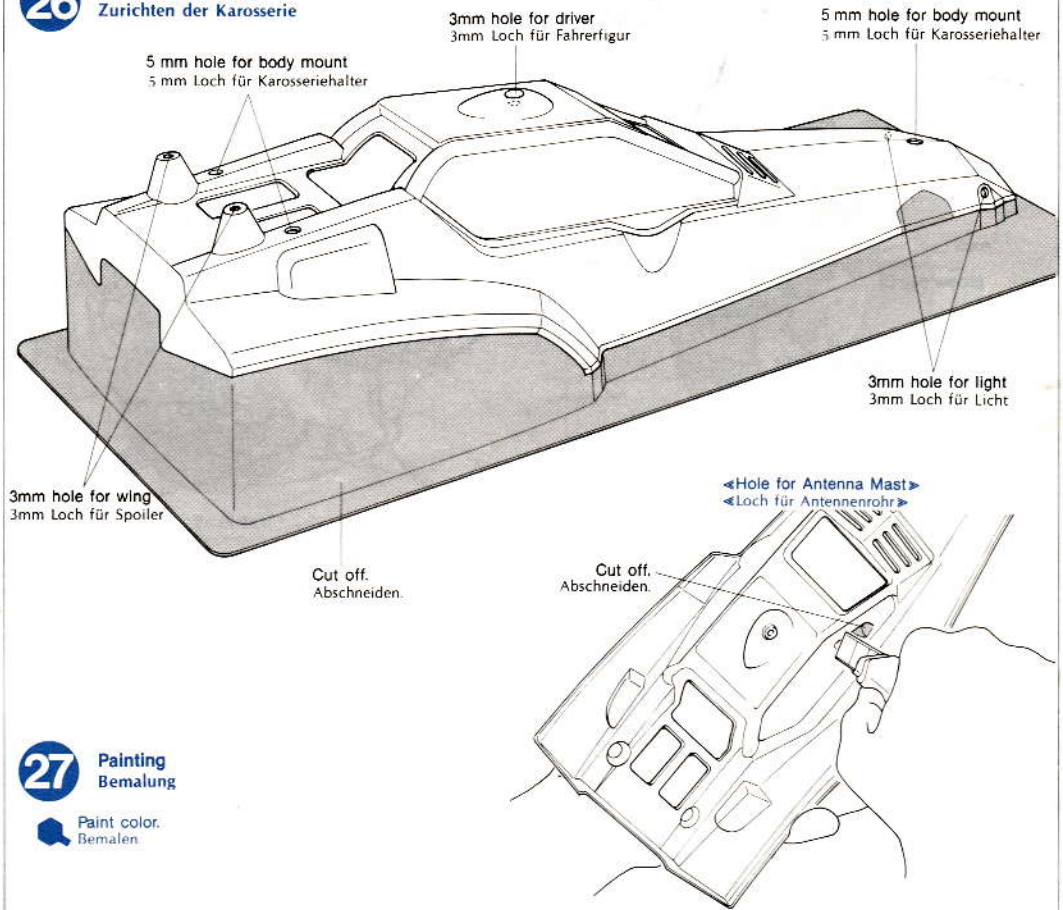
The racing buggy is painted to be conspicuous in the desert and wilderness. The body surface has many sponsor stickers. The paint scheme shown in the instructions is based on box art. Paint the body using your own colorful scheme.

Die Renn-Buggies haben eine bunte Bemalung, die im Gelände sehr auffallend ist. Die Karosserie hat viele Sponsor-Marken. Der Bemalungsvorschlag in der Anleitung ist wie der auf dem Kartonbild. Man kann aber auch wie man will seinen Hornet bemalen.

28 << Assembly of Driver >> << Fahrerfigur >>



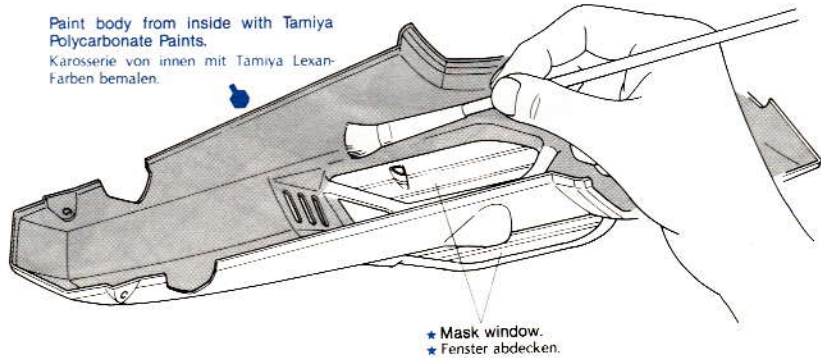
26 Trimming of Body Zurichten der Karosserie



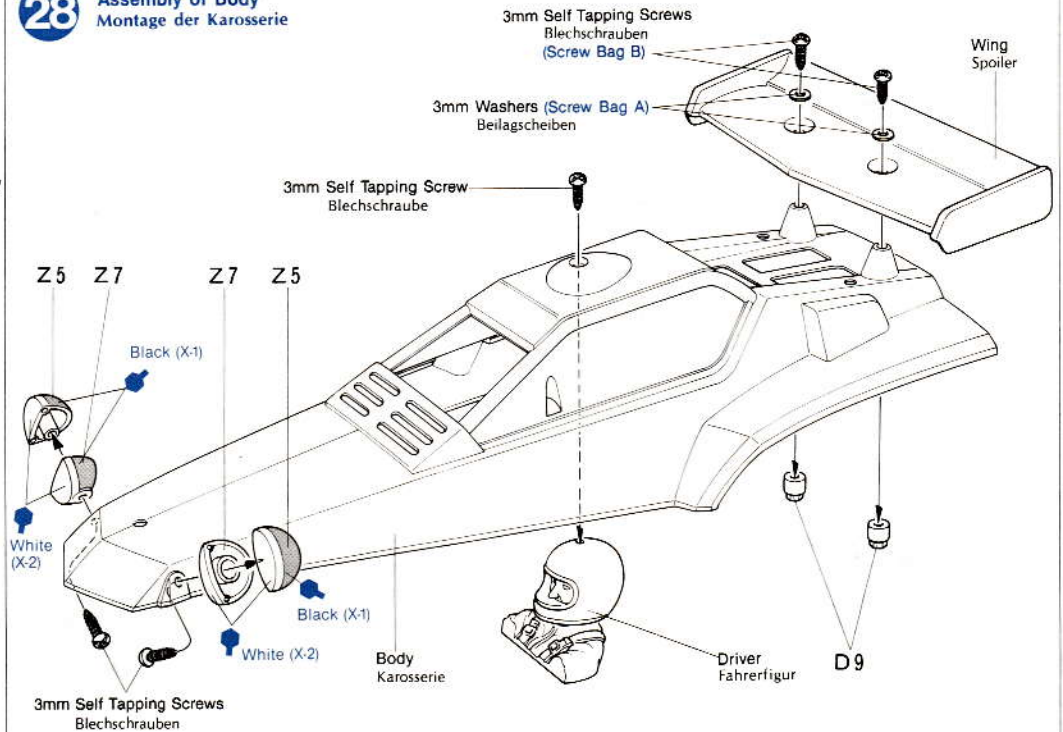
27 Painting Bemalung

- Paint color.
Bemalen.

Paint body from inside with Tamiya Polycarbonate Paints.
Karosserie von innen mit Tamiya Lexan-Farben bemalen.



28 Assembly of Body Montage der Karosserie

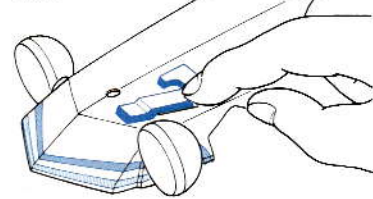


29 <<Stickers>>
<<Stickers>>

- 1 Cut stickers along colored edge so the transparent film is removed.
- 1 Die Sticker an den bunten Kanten so ausschneiden, dass der transparente Film weg ist.



- 2 Peel off the end of lining a little and put the decal in position on the body.
- 2 An einer Kante die Unterlage etwas abziehen und Sticker richtig auf die Karosserie legen.



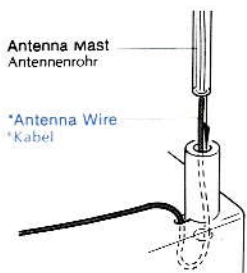
men, remove the lining slowly. In so doing, be careful that the decal does not move out of position and that air is not trapped under it.

- 3 Dann die Unterlage langsam ganz abziehen, darauf achten, dass sich der Sticker nicht verschiebt und dass keine Luft unter den Sticker kommt - sonst gibt es Luftblasen.



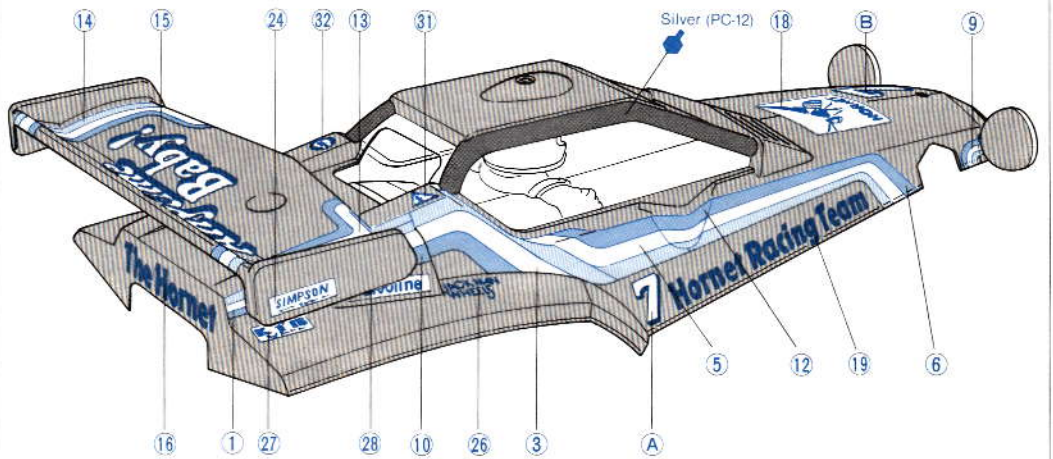
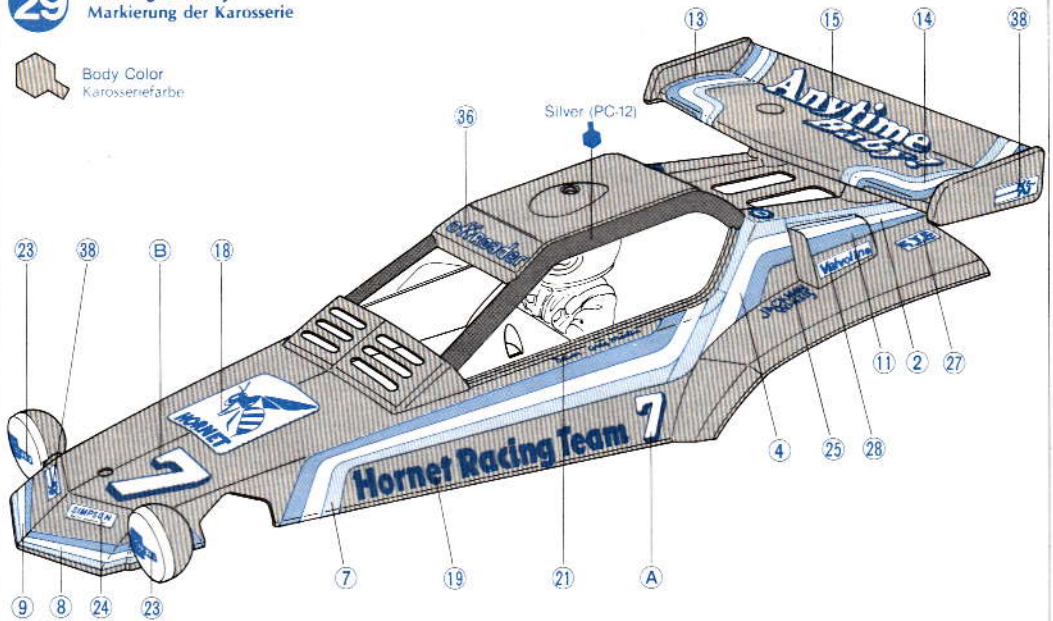
If the lining is completely removed in advance, the decal may be wrinkled or contain unwanted air bubbles.
Wenn die Unterlage vorher komplett entfernt wird, kann sich der Sticker zusammenkleben.

30 <<Antenna Mounting>>
<<Einstecken der Antenne>>

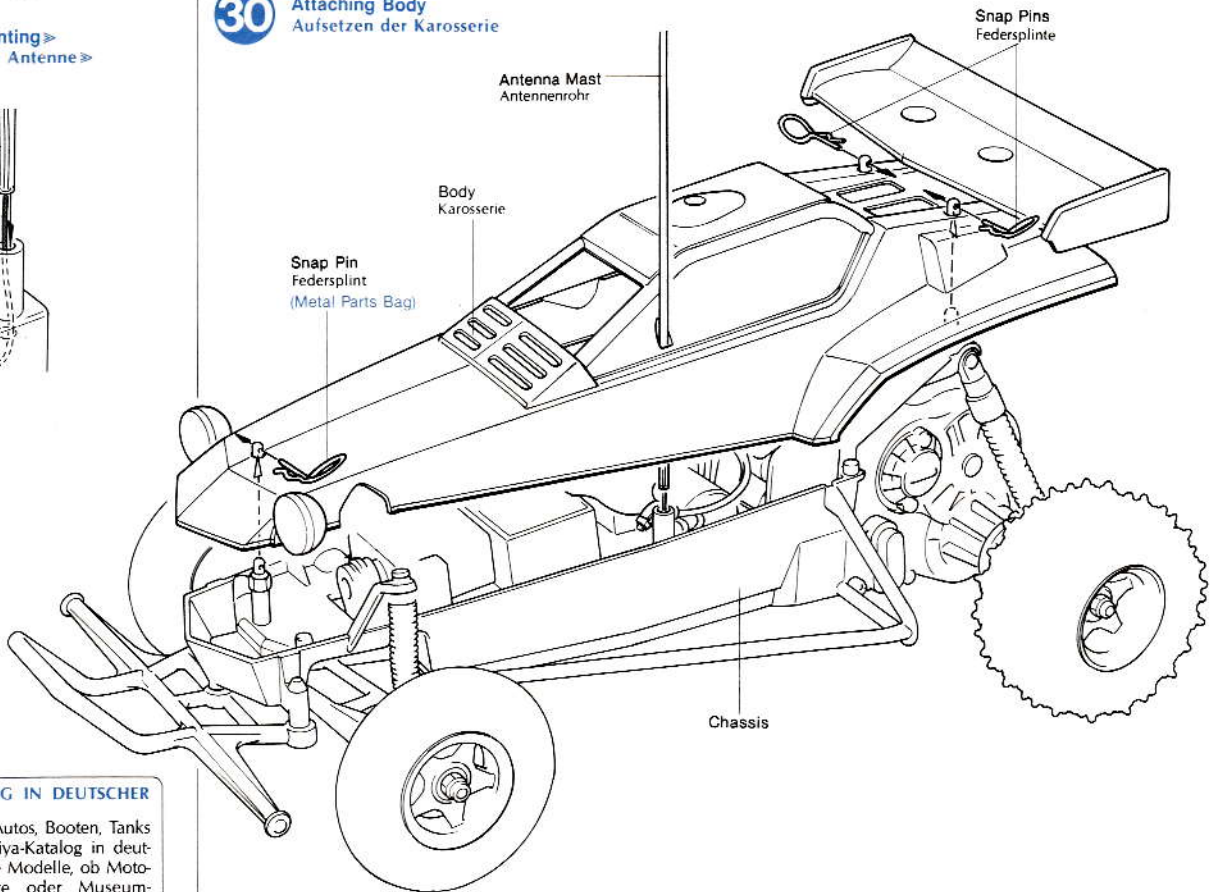


TAMIYA FARBKATALOG IN DEUTSCHER SPRACHE
Letzte Neuheiten von Autos, Booten, Tanks und Schiffen. Im Tamiya-Katalog in deutscher Sprache sind alle Modelle, ob Motorisierte, Ferngesteuerte oder Museum-Qualitates-Modelle, farbig Abgebildet.

29 Marking of Body
Markierung der Karosserie



30 Attaching Body
Aufsetzen der Karosserie



The HORNET

DISCONNECT BATTERY CONNECTOR WHEN NOT USING THE CAR.
WENN MAN NICHT FAHRT, AKKU-KUPPLUNG AUSEINANDER.

<Inspection before Operation>

Be sure to check the points shown in the figure before starting operation. This is necessary to prevent trouble and accidents. It is recommended to check them with the model put on a base so that the wheels are in the air.

In the first operation after assembly, let the model run slowly for the first five minutes while checking the condition of the steering and switch.

- 1 Make sure that screws, particularly grub screws, are tight enough.
- 2 Make sure that batteries for the transmitter and receiver are new by means of meter or lamp.
- 3 Make sure that Ni-Cd battery has been sufficiently charged.
- 4 Adjust steering servo and/or trims so that the car tracks in a straight line with transmitter at neutral.
- 5 Double check the speed controller for full travel to high speed and stop limits.
- 6 Double check the wiring for breaks and short circuits. Secure with vinyl tape.
- 7 Make sure that lock nuts are tight enough.
- 8 Make sure that the front wheels rotate smoothly and are lightly oiled.
- 9 Do rear wheels rotate smoothly? Lubricate inside of gear box with spray oil.
- 10 Does fuse blow? Replace fuse only after determining cause of blowing. If the power is on and the wheels cannot rotate the fuse will not blow. The motor will get hot or burn out. If you suspect this happening, immediately move the transmitter stick to neutral (no power) and determine the cause of stoppage.

<Einlaufen>

Nach Zusammenbau das Modell langsam die ersten 5 Minuten laufen lassen und dabei die Steuerung und Schalter auf gute Wirkung beobachten

- 1 Darauf achten, dass alle Schrauben gut angezogen sind.
- 2 Batterien für Empfänger und Sender müssen voll sein.
- 3 Nur volle Akku's bringen volle Leistung evtl. nachladen.
- 4 Steuerung muss einwandfrei arbeiten. Modell muss geradeaus fahren. Wenn Fahrzeug nach links oder rechts zieht, mit Trimmhebel nach justieren.
- 5 Der Schalter muss auf Top speed gehen und genau stoppen.
- 6 Kabel gut isolieren um Kurzschluss zu vermeiden.
- 7 Muttern müssen gut angezogen sein.
- 8 Vorderrad muss leicht drehen, evtl. ölen.
- 9 Drehen die Hinterräder gut? Das Getriebegehäuse innen mit Öl-Spray schmieren.

10 Haut's die Sicherung durch? Die Sicherung erst ersetzen, wenn festgestellt, warum diese durchbrennt. Wenn der Strom eingeschaltet ist und die Hinterräder können sich nicht drehen, brennt die Sicherung auch nicht durch - aber der Motor wird heiss und kann ausbrennen. Wenn man das Gefühl hat, dass dies passieren kann, den Senderhebel sofort auf neutral (keine Strom) bringen und die Ursache des Stoppens feststellen

<Cautions>

As an electric powered radio control car utilizes high capacity Ni-Cd batteries and high performance electric motors, currents as large as 200 watts flow in the circuits. You must be very careful of all wiring, adjustments, and the handling of the speed controller, otherwise your receiver, servo or speed controller can be damaged. Please note the following carefully.

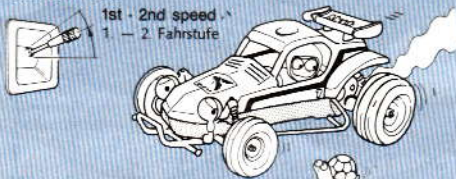
<Car runs with switch off>

Whenever battery is connected, the switch blade of the speed controller must be on the stop position or the car will run as soon as the battery is connected.

<Burnt out resistor>

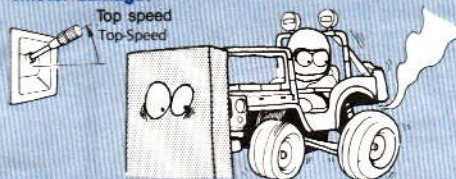


If your car stops due to some foreign object obstructing the wheels, the resistor of the speed controller can burn out.



Driving for long periods in the 1st or 2nd speeds can also burn out the resistor.

<Motor damage>



Stopping the wheels from rotating when the speed

controller is at high speed will seriously damage or burn out the motor. Never impose too much of a load on the motor.

<Procedure for Running>

1. Set up batteries for the motor, transmitter and receiver.
 2. Make sure that the sticks and trim levers of the transmitter are in neutral.
 3. Turn on the transmitter switch.
 4. Turn on the receiver switch.
 5. Confirm the movement of each portion by manipulating the sticks. Make adjustment by means of the trim levers, if necessary.
- ★ The switches must be operated in this order. If the receiver switch is turned on before the transmitter switch, the model may go out of control because of interference.
- ★ Reverse the procedure mentioned above when you finish running the model. Turn off the receiver switch, then transmitter switch. Remove the batteries if the model is not going to be used for awhile.

- 1 If the motor does not function (a rare occurrence), remove wires and check the motor by directly connecting its lead wire to a fresh battery.
- 2 Is the servo horn in the proper position? It must be fitted so that the model turns right and left the same amount.
- 3 Antenna must be adjusted correctly.
- 4 When shaft or wheels become entangled, motor will overheat. Remove such hindrances immediately.
- 5 If the Radio Control Unit is not satisfactory, enquire with the manufacturer. The radio control unit is very precisely constructed and must be handled with great care.

STÖRUNGEN UND URSACHEN

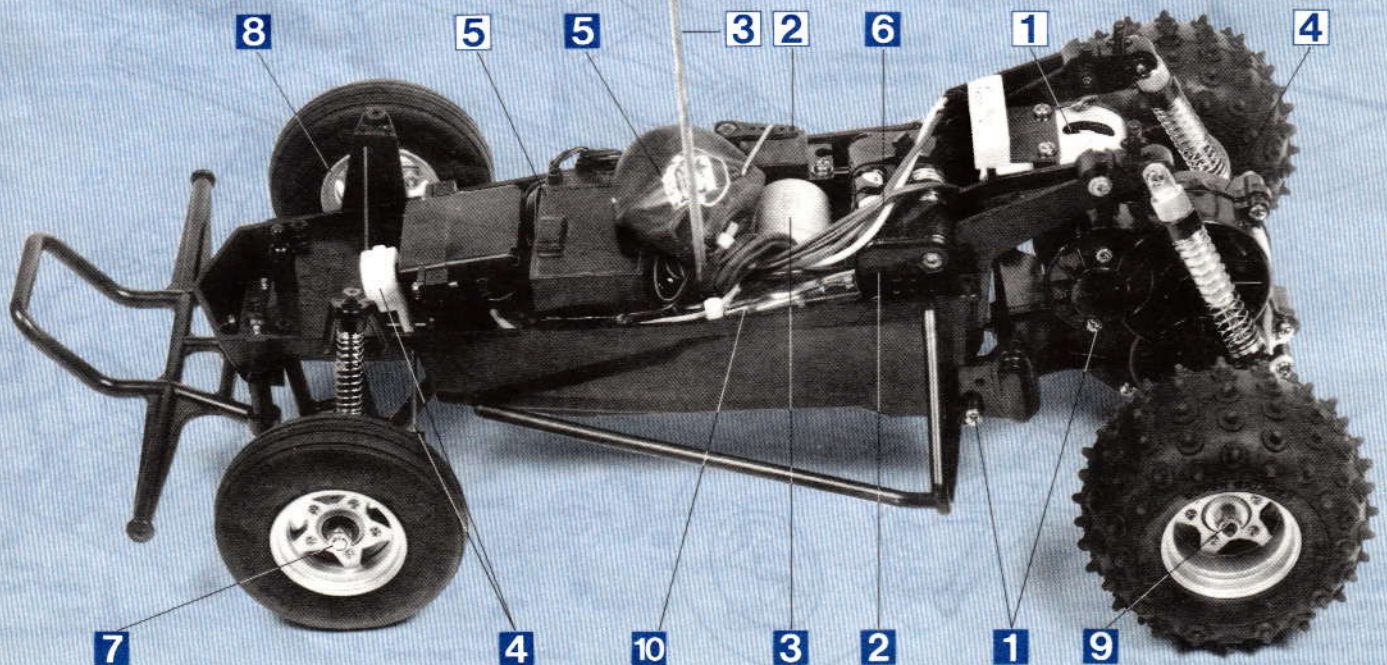
Wenn Fahrzeug nicht richtig fährt, versuche folgendes

- 1 Wenn Motor nicht läuft, evtl. direkt an Batterie zum Prüfen anschließen.
- 2 Das Servohorn überprüfen. Es muss so eingebaut sein, dass links und rechts gleichmässige Drehung erfolgt.
- 3 Antenne richtig setzen.
- 4 Wenn Gras oder Steinchen die Antriebsachsen blockieren, wird der Motor überhitzt. Blockierung sofort entfernen.
- 5 Wenn Funkanlage nicht richtig arbeitet, zum Fachhändler gehen—NICHT versuchen, SELBST zu reparieren.

<Maintenance after Running>

After operating the model, do the following to keep optimum performance.

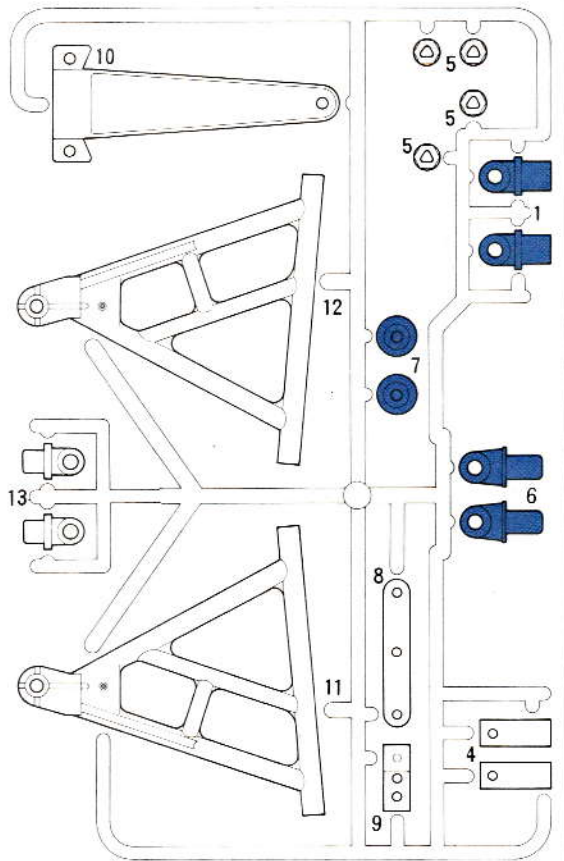
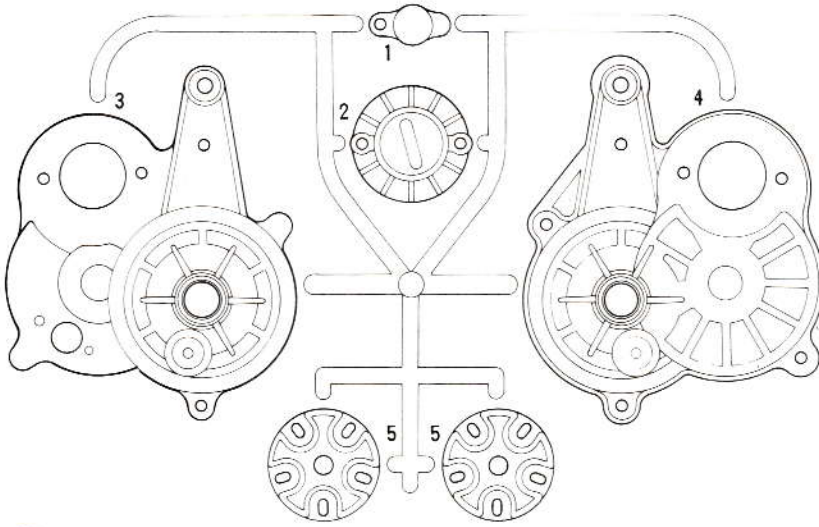
- ★ Completely remove sand, mud, dirt, etc.
- ★ Oil the suspension, gears, bearings, etc.



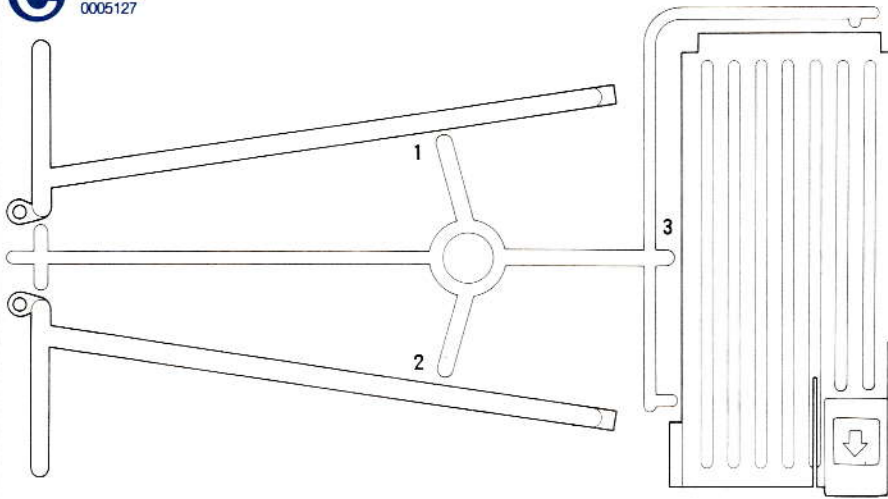
PARTS

A PARTS
0005164
Not used.
nicht verwenden.

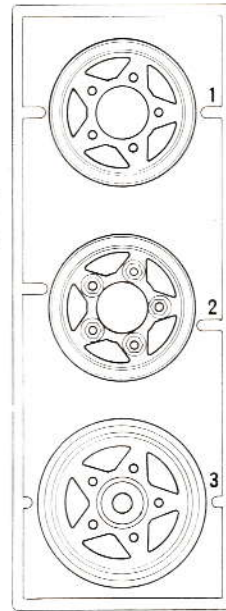
B PARTS
0005276



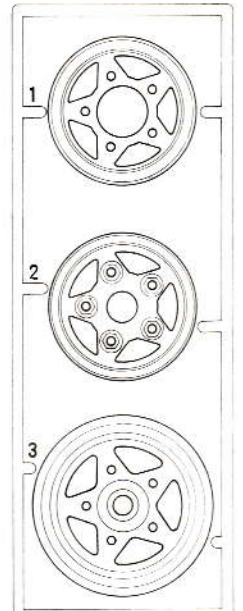
C PARTS
0005127



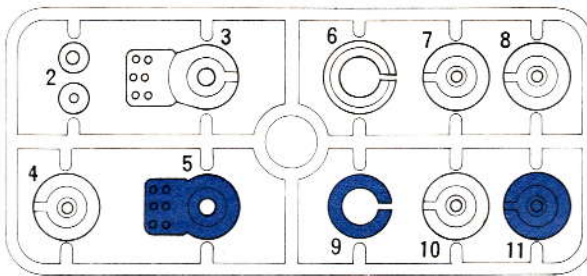
F PARTS
F & R Parts 9005076



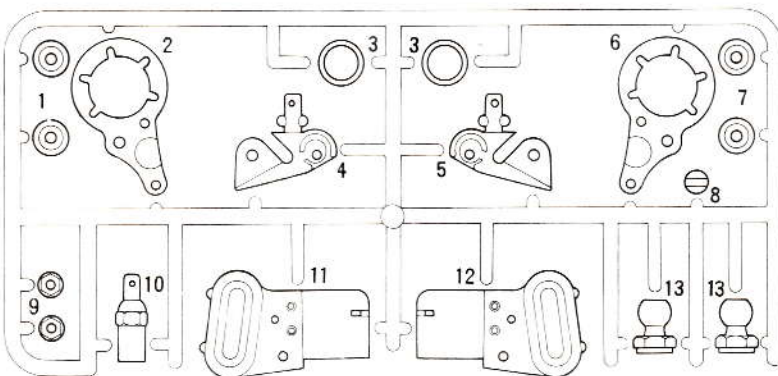
R PARTS



S PARTS
0115001
Not used.
nicht verwenden.

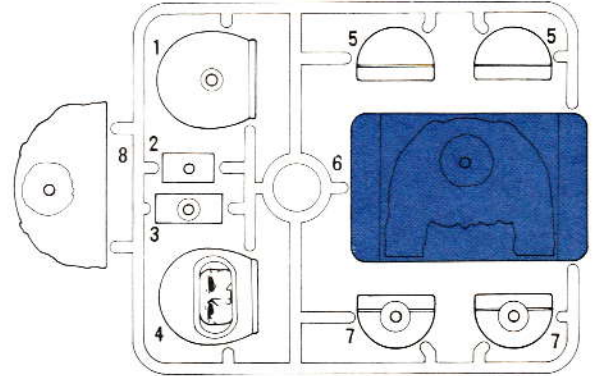


D PARTS
9005156



Z PARTS
0225001

Not used.
nicht verwenden.

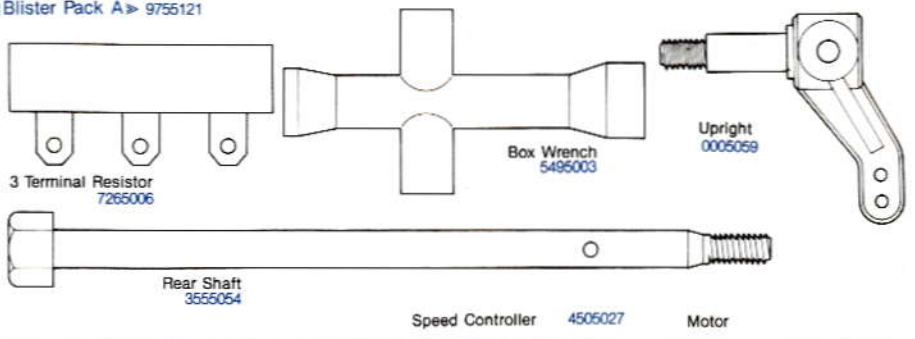


PARTS

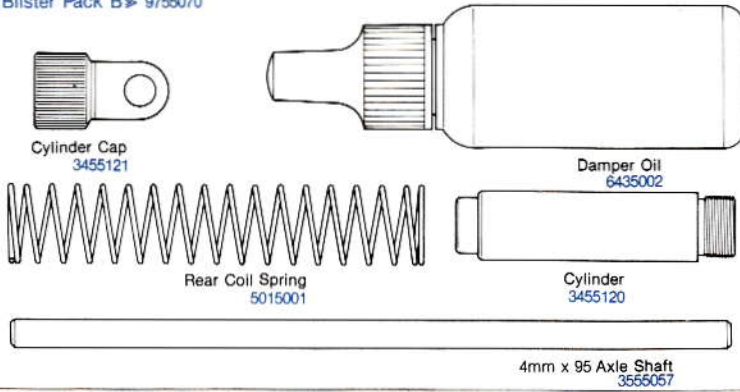
★Extra screws & nuts are included.
Use them as spares.
★Ersatz Schrauben und Mutter liegen
im Kit bei

- Body (including wing) 9805020
- Chassis 0335050
- Antenna Mast 6095001
- Sticker 9495052
- ◀Tire Bag▶ 9405154
- Front Tire 6205004
- Rear Tire 6215007

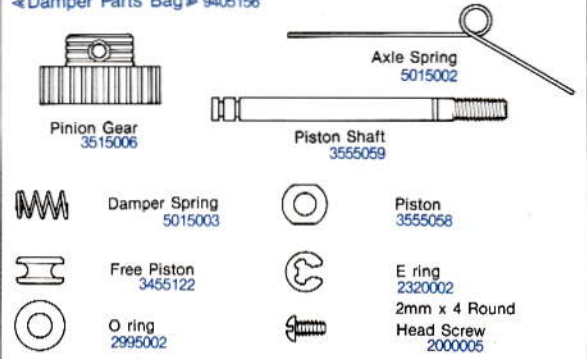
◀Blister Pack A▶ 9755121



◀Blister Pack B▶ 9755070



◀Damper Parts Bag▶ 9405156



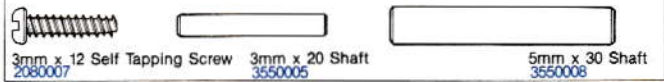
Metal Parts Box

Wing Bumper 0445007

◀Plastic Bearing Bag▶ 9405338



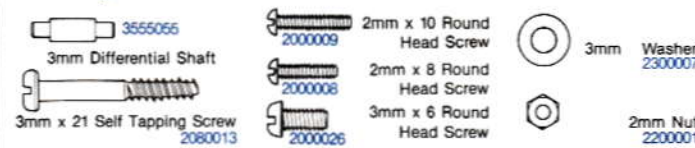
◀Screw Bag B▶ 9465105



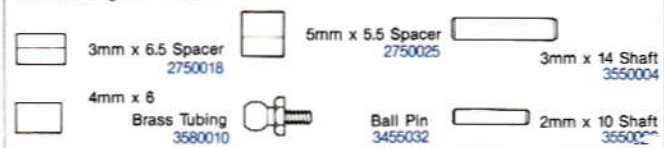
◀Screw Bag C▶ 9465116



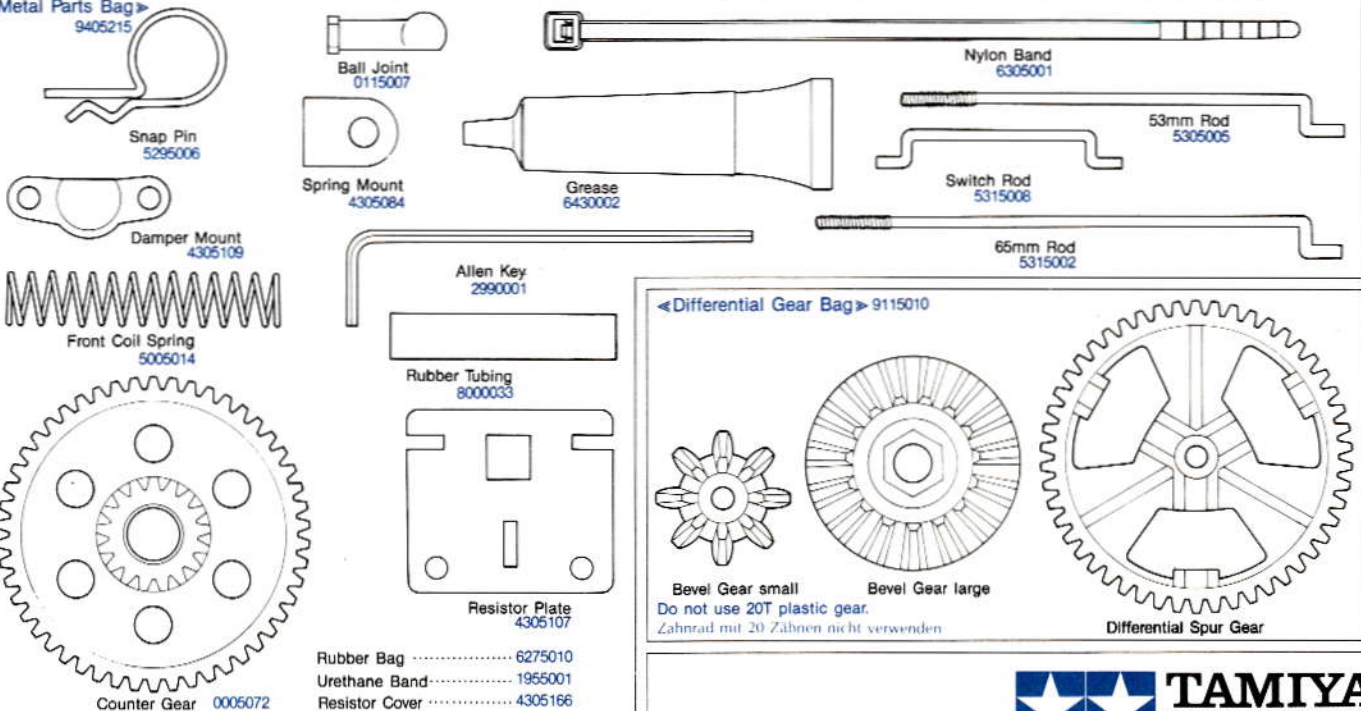
◀Screw Bag A▶ 9465115



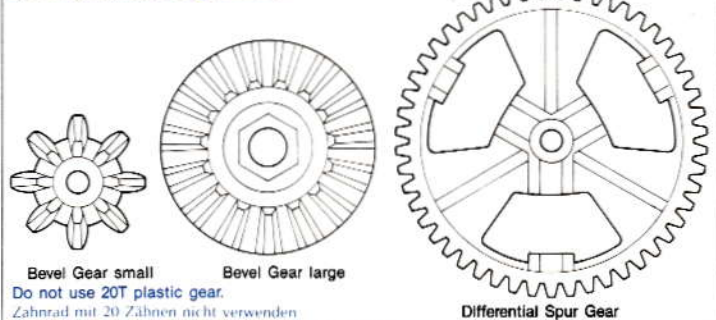
◀Screw Bag D▶ 9465107



◀Metal Parts Bag▶ 9405215



◀Differential Gear Bag▶ 9115010



Do not use 20T plastic gear.
Zahnrad mit 20 Zähnen nicht verwenden