

1/10 R/C HIGH PERFORMANCE 4WD OFF ROAD RACER

The Boomerang

○READY TO ASSEMBLE R/C MODEL KIT ○SHAFT DRIVEN 4WD

○FRONT AND REAR DOUBLE WISHBONE SUSPENSION ○ADJUSTABLE OIL DAMPERS FRONT AND REAR

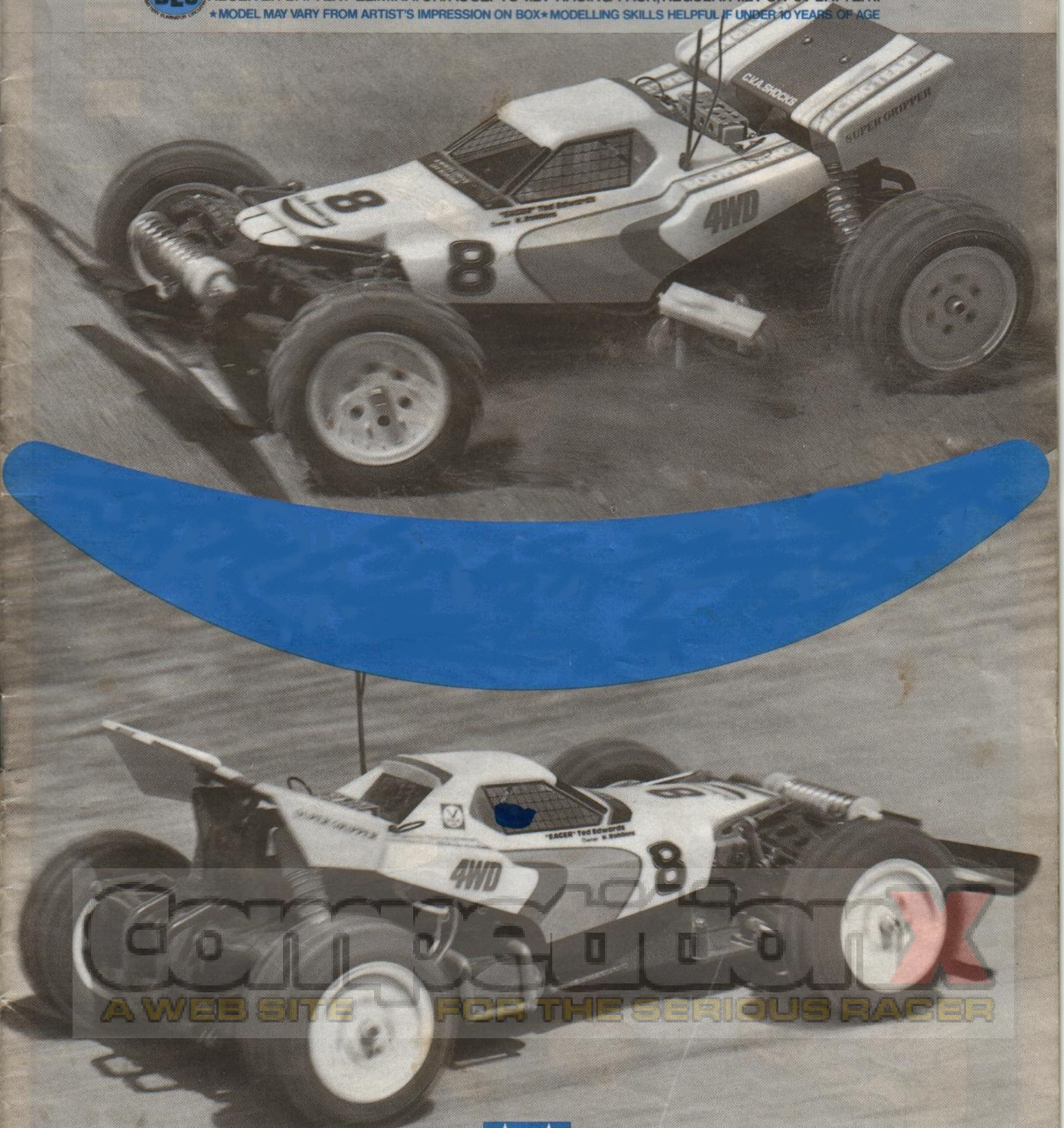
○LOW PROFILE RUBBER LIKE SEMI-PNEUMATIC TIRES ○WITH POWERFUL RS-540S MOTOR ○BATHTUB TYPE A.B.S. RESIN FRAME

○POLYCARBONATE BODY AND WING ○FOR MAXIMUM PERFORMANCE USE ONLY TAMIYA Ni-Cd BATTERIES

○REQUIRES 2 CHAN. R/C EQUIPMENT (INCL. BEC-SYSTEM) OR NORMAL R/C EQUIPMENT & TAMIYA RECEIVER BATTERY ELIMINATOR. ACCEPTS 7.2V RACING PACK, REGULAR 7.2V OR 6V BATTERY.



★MODEL MAY VARY FROM ARTIST'S IMPRESSION ON BOX★MODELLING SKILLS HELPFUL IF UNDER 10 YEARS OF AGE



COMPTON
A WEB SITE FOR THE SERIOUS RACER

TAMIYA PLASTIC MODEL CO.



OSHIKA, SHIZUOKA-CITY, JAPAN.

The Boomerang

RADIO CONTROL UNIT

A battery eliminator equipped 2 channel digital proportional radio system referred to as BEC (Battery Eliminator Circuitry). For the other 2 channel proportional units without BEC, a separately sold battery eliminator set from Tamiya is required.

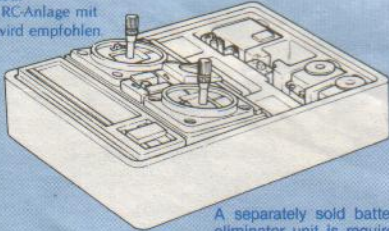
FUNKFERNSTEUERUNG - RC-ANLAGE

Eine 2-Kanal RC-Anlage mit Akku-Anoden-Netzanschluss (BEC) wird empfohlen. (Made in Japan) Andere Anlagen ohne BEC können auch verwendet werden, jedoch ist ein A-Anschluss von TAMIYA dazu zu kaufen.

NECESSARY ITEMS

FOLGENDE TEILE WERDEN BENÖTIGT

- ★ A BEC system unit is recommended.
- ★ Ein RC-Anlage mit BEC wird empfohlen

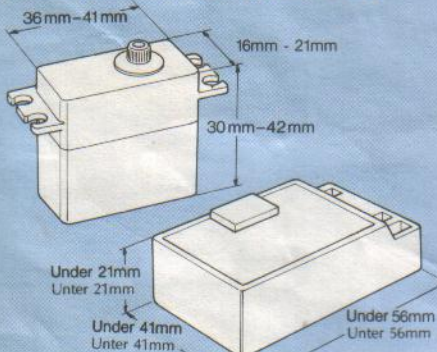


Batteries for R/C Unit
Batterien für RC Anlage



A separately sold battery eliminator unit is required when the radio does not have a BEC system.
Zu RC-Anlagen ohne BEC ist unbedingt ein TAMIYA A-Anschluss zu kaufen.

SUITABLE SERVO AND RECEIVER SIZE GRÖSSE DER SERVO'S UND DES EMPFÄNGERS

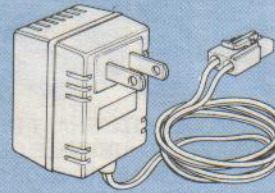


POWER SOURCE

★ This kit is designed to use a Tamiya Ni-Cd (6V) or (7.2V) battery pack. Purchase it separately at your hobby supply house.

STROMVERSORGUNG

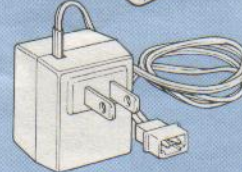
★ Nur aufladbare NC Akku's von Tamiya verwenden. 6 Volt (5 Zellen) oder 7.2 Volt (6 Zellen).



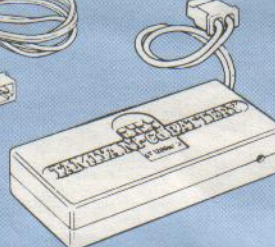
Tamiya Ni-Cd (7.2V) Battery
Tamiya NC 7.2V Akku



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

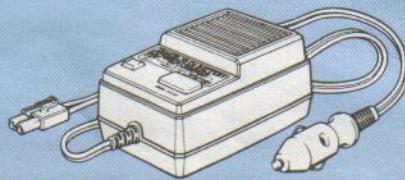


Tamiya Ni-Cd (6V) Battery
Tamiya NC 6V Akku



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.



Kit includes box wrench, allen key, switch lubricant, molybdenum grease, nylon bands, and damper oil.

FOR
MAXIMUM
PERFORMANCE
USE ONLY
TAMIYA NI-CD
BATTERIES.

Im Kit sind Mutter-Steckschlüssel, Imbusschlüssel, Schmiermittel, Nylonbänder, und Stossdämpfer-Öl enthalten.

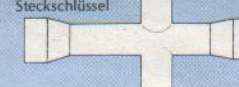
Molybdenum grease



Switch lubricant



Box wrench



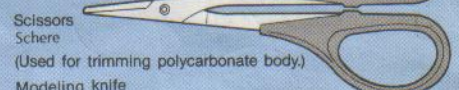
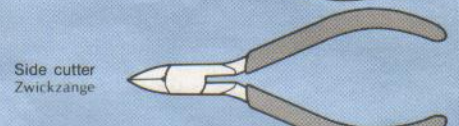
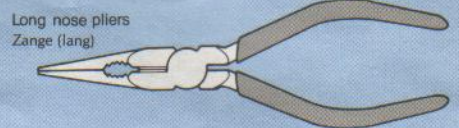
Allen key
Imbusschlüssel

Damper oil
Stossdämpfer-Öl



NOT INCLUDED IN KIT IM KASTEN NICHT ENTHALTEN.

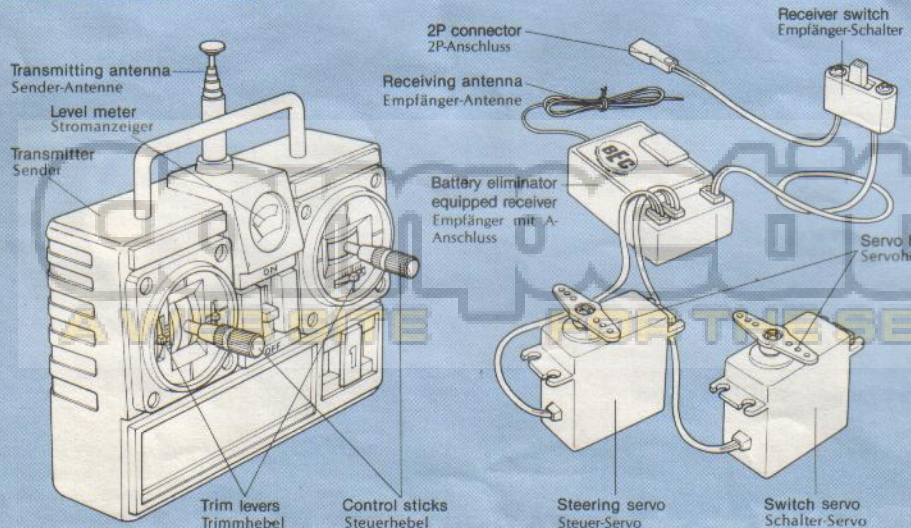
- + & - Screwdrivers (large and medium)
- + & - Schraubenzieher (gross und mitte)



★ Tweezers and cellophane tape will also assist in construction.
★ Pinzette und Tesafilm erleichtern das Bauen.

PAINTING
Painting is an important point in finishing any model. Refer to page 19 for suggestions and examples. Spray paint the large areas.

2 CHANNEL PROPORTIONAL WITH BEC SYSTEM 2-KANAL RC-ANLAGE MIT BEC



COMPOSITION OF BEC DIGITAL PROPORTIONAL SYSTEM

- Transmitter** : Serves as a control box. Stick movements are transformed into radio wave signals which are transmitted through the antenna.
- Receiver equipped with battery eliminator** : Receiver and servos obtain power from the car running battery. For receivers without BEC, a separate battery eliminator unit is required.
- Servos** : Servo transforms signals received by the receiver into mechanical movements.

ZUSAMMENSETZUNG DER BEC RC-ANLAGE

- Sender** : Hebelbewegungen werden in Funkwellen umgesetzt und geben über einen Empfänger Impulse an die im Auto eingebauten Servos.
- Empfänger mit A-Anschluss** : Der Empfänger erhält Signale von Sender. Der Strom für den Empfänger wird aus dem Fahr-Akku genommen. Für Empfänger ohne BEC muss ein separater A-Anschluss eingebaut werden. (BEC=Akku-Anoden-Netzanschluss)
- Servos** : Signale vom Empfänger werden im Servo mechanisch übersetzt.

Grease

Apply grease to the places shown by this mark. Apply grease first, then assemble.

Fett

Stellen mit diesem Zeichen erst fetten, dann zusammenbauen.

READ BEFORE ASSEMBLY.

ERST LESEN — DANN BAUEN.



★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.

★Viele kleine Schrauben und Muttern etc. müssen genau der Anleitung nach eingebaut werden. Exaktes Bauen bringt ein gutes Modell mit bester Leistung.

BATTERY ELIMINATOR

A BEC system proportional unit or a battery eliminator set is required. The battery eliminator installed receiver gets power from the running battery, and provides a stable current flow. Both systems are shown below.

AKKU-ANODEN-NETZANSCHLUSS

Es wird eine RC-Anlage mit BEC benötigt oder wenn die RC-Anlage kein BEC-System hat, ein separater A-Anschluss. Der Empfänger mit A-Anschluss erhält den Strom vom Fahr-Akku, dies gewährt eine konstante Spannung. Beside Anlagen sind unten gezeigt.

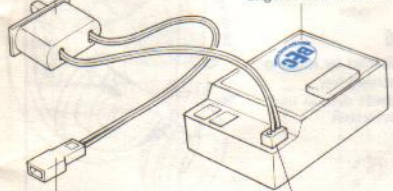
BEC SYSTEM RECEIVER

EMPFÄNGER MIT BEC

Receiver switch Empfänger-Schalter

BEC system receiver (Eliminator equipped) Empfänger mit angestecktem BEC

Receiver connector Empfänger-Verbindungskabel



2P connector 2P-Anschluss

Receiver connector Empfänger-Verbindungskabel

BATTERY ELIMINATOR SET

A-ANSCHLUSS

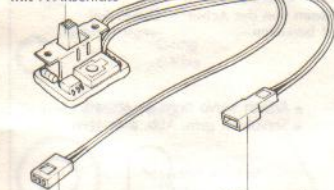
Tamiya Battery Eliminators

Tamiya A-Anschluss

★Acoms, Sanwa, Futaba, JR and KO type available. ★Auch von Acoms, Sanwa, Futaba, JR und KO gibt es einen Anschluss.

Eliminator equipped receiver switch

Ein/Aus-Schalter mit A-Anschluss



Receiver switch Empfänger-Verbindungskabel

2P connector 2P-Anschluss

Other types of eliminators from R/C equipment manufacturers.

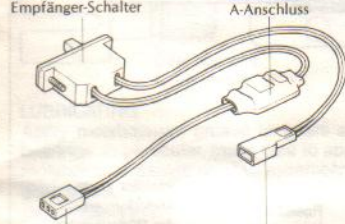
A-Anschluss von anderen Fabrikanen können auch lieferbar sein.

★Shape of unit varies by manufacturers.

★Die Forme des A-Anschluss ist je nach Fabrikat verschieden.

Receiver switch Empfänger-Schalter

Eliminator A-Anschluss



Receiver connector Empfänger-Verbindungskabel

2P connector 2P-Anschluss

SCREWDRIVERS

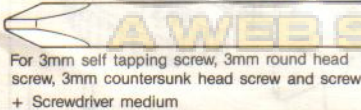
You should have at hand the 3 types of screwdrivers shown below. Use only the correct driver to prevent damage to screws.

SCHRAUBENZIEHER

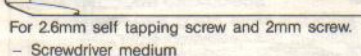
Die unten gezeigten Schraubenzieher sollte man benutzen um Schäden an den Schrauben zu vermeiden.

+ Screwdriver large

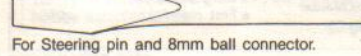
(Full-sized) (Originalgröße)



+ Screwdriver medium



- Screwdriver medium



For Steering pin and 8mm ball connector.

RADIO CONTROL UNIT

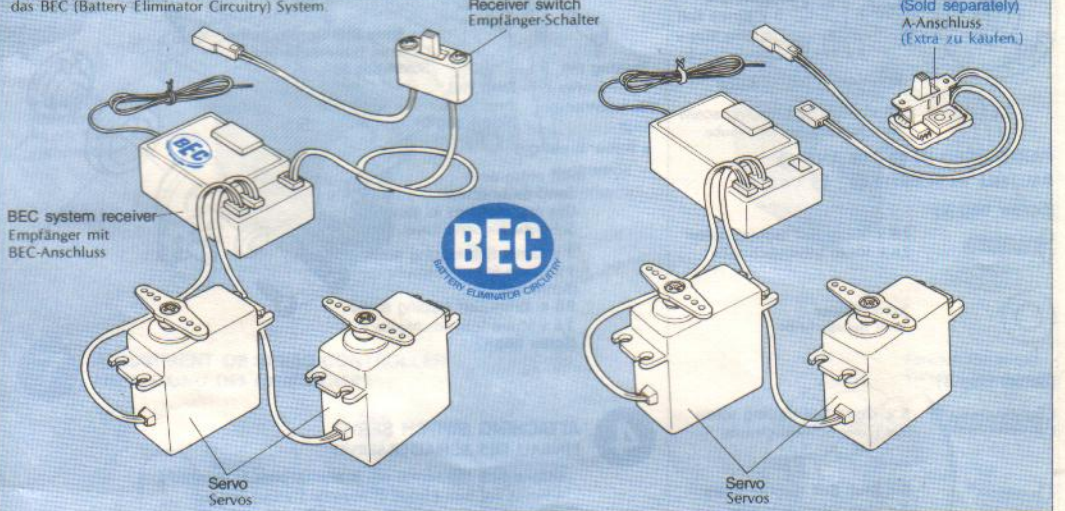
RC-ANLAGE

◀When using BEC system receiver▶

◀Wenn BEC-Empfänger verwendet wird▶

★The battery eliminator equipped proportional unit is referred to as BEC (Battery Eliminator Circuitry).

★Die RC-Anlage mit Akku-Anoden-Netzanschluss bezieht sich auf das BEC (Battery Eliminator Circuitry) System.



◀When using a normal receiver▶

◀Bei Verwendung eines normalen Empfängers▶

Battery eliminator (Sold separately) A-Anschluss (Extra zu kaufen.)

Receiver switch Empfänger-Schalter

BEC system receiver Empfänger mit BEC-Anschluss

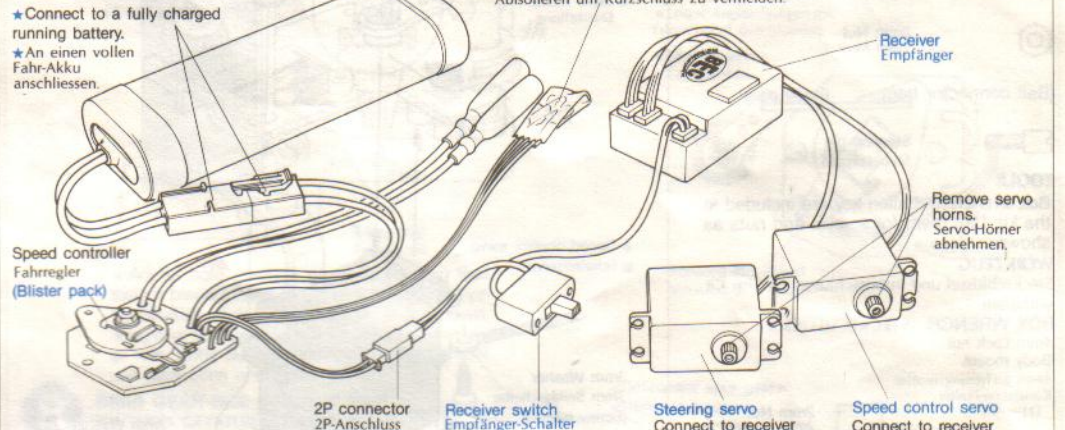


Servo Servos

Servo Servos

1 CONNECTING RADIO CONTROL UNIT

ZUSAMMENBAU DER RC-ANLAGE



★Connect to a fully charged running battery.

★An einen vollen Fahr-Akku anschliessen.

Insulate with tape to prevent short circuits. Abisolieren um Kurzschluss zu vermeiden.

Receiver Empfänger

Remove servo horns. Servo-Hörner abnehmen.

Speed controller Fahrgregler (Blister pack)

2P connector 2P-Anschluss

Receiver switch Empfänger-Schalter

Steering servo Connect to receiver connector. Steuer-Servo mit Empfänger-A-Anschluss verbinden

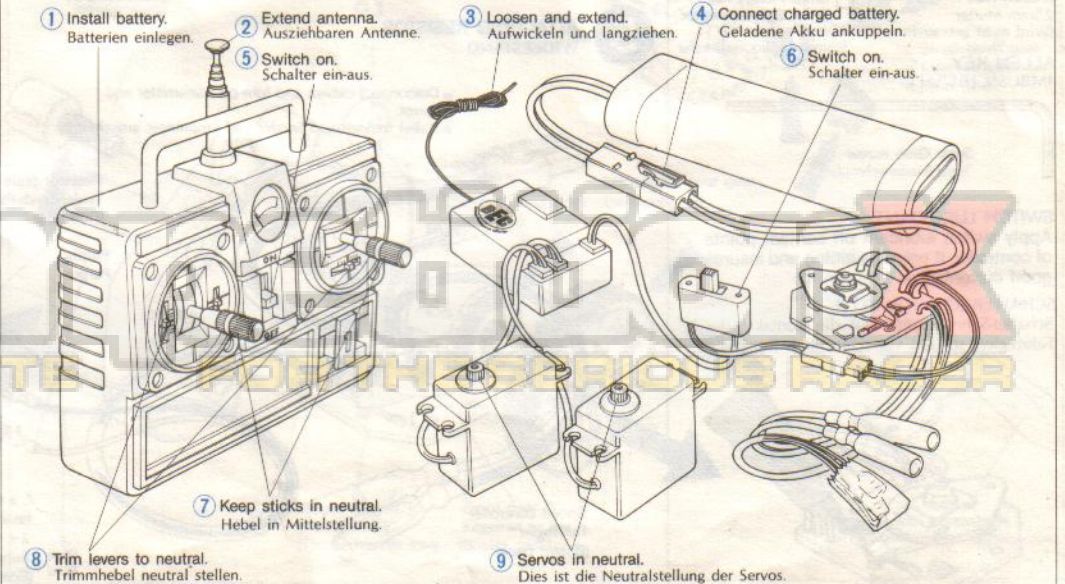
Speed control servo Connect to receiver connector. Schalter-Servo mit Empfänger-A-Anschluss verbinden

2 CHECKING R/C EQUIPMENT

ÜBERPRÜFEN DER RC-ANLAGE

★Check out R/C equipment in sequence. Make sure the servos are in neutral prior to assembly.

★Die einzelnen Teile der RC-Anlage der Reihe nach prüfen. Servos vor dem Einbau in neutrale Stellung bringen.



1 Install battery. Batterien einlegen.

2 Extend antenna. Ausziehbare Antenne.

3 Loosen and extend. Aufwickeln und langziehen.

4 Connect charged battery. Geladene Akku anknüpfen.

5 Switch on. Schalter ein-aus.

6 Switch on. Schalter ein-aus.

7 Keep sticks in neutral. Hebel in Mittelstellung.

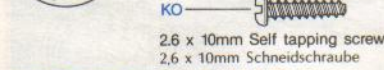
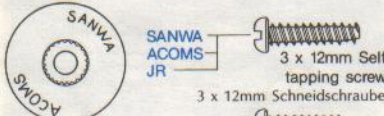
8 Trim levers to neutral. Trimmhebel neutral stellen.

9 Servos in neutral. Dies ist die Neutralstellung der Servos.

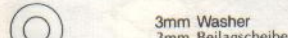
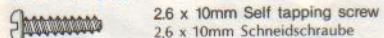
3 SERVO SAVER SERVO-SAVER

Select one servo saver base from below according to the make of your servo. Grundplatte zu Ihrer RC-Anlage (Servo) auswählen und auf Servo anbringen.

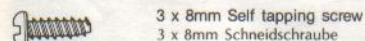
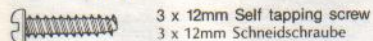
Servo saver base Servo-Saver Grundplatte
Servo saver screw Schraube für Servo-Saver



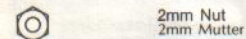
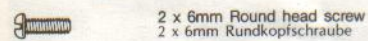
PARTS USED IN 3, 4 AND 5 BAUTEILE IN SCHRITT 3, 4 UND 5 (Screw bag A)



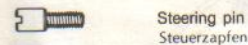
(Screw bag B)



(Screw bag C)



(Ball connector bag) Blister pack



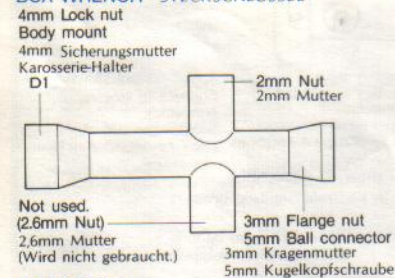
TOOLS

Box wrench and allen key are included in the kit. Use them for screws and nuts as shown.

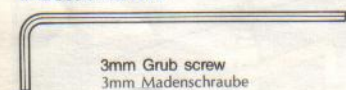
WERKZEUG

Steckschlüssel und Imbusschlüssel sind im Kit enthalten.

BOX WRENCH STECKSCHLÜSSEL



ALLEN KEY IMBUSSCHLUSSEL



SWITCH LUBRICANT

Apply switch lubricant on contact points of controller. It prevents arcing and insures good current flow.

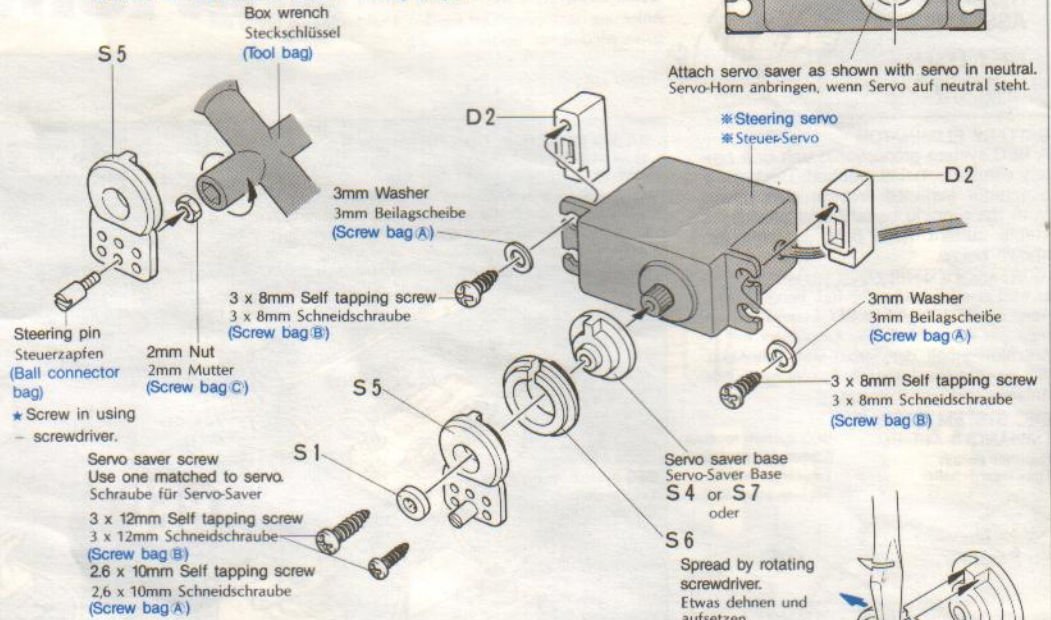
SCHALTER-SCHMIERMITTEL

Schalter-Schmiermittel auf die Kontakte des Fahrreglers schützt vor schlechtem Kontakt.



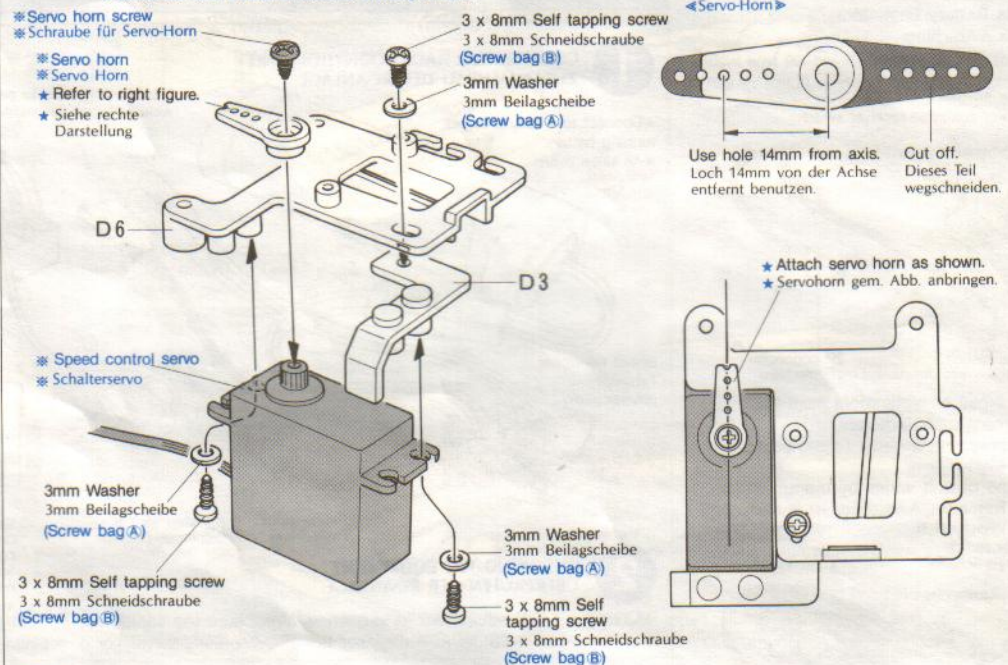
3 ATTACHING SERVO SAVER SERVO-SAVER

*Make sure the servos are in neutral prior to assembly.
*Servos vor dem Einbau in neutrale Stellung bringen.



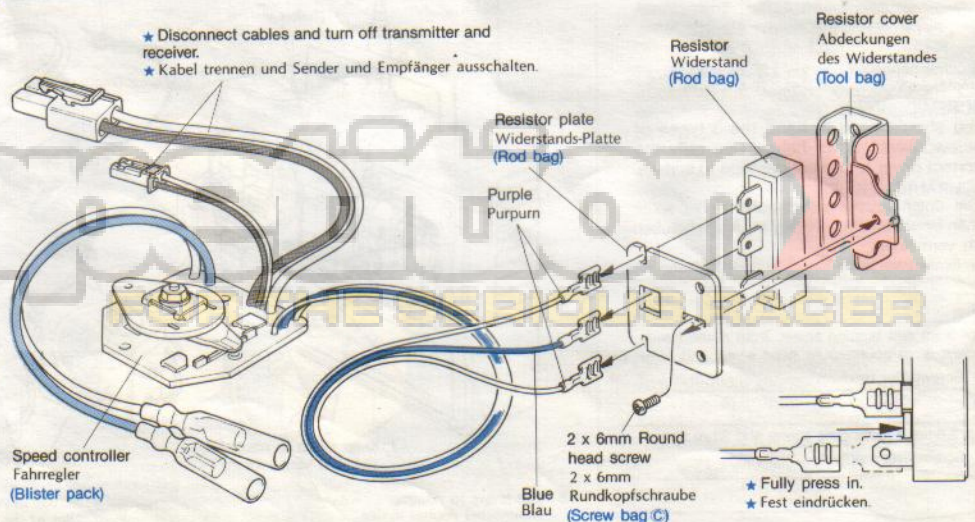
4 ATTACHING SWITCH SERVO EINBAU DES SCHALTER-SERVO

*Make sure the servos are in neutral prior to assembly.
*Servos vor dem Einbau in neutrale Stellung bringen.



5 ATTACHING RESISTOR WIDERSTAND

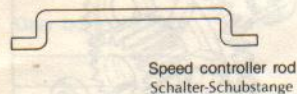
*Disconnect cables and turn off transmitter and receiver.
*Kabel trennen und Sender und Empfänger ausschalten.



PARTS USED IN 6
BAUTEILE IN SCHRITT 6
(Screw bag B)

- 3 x 8mm Self tapping screw
3 x 8mm Schneidschraube

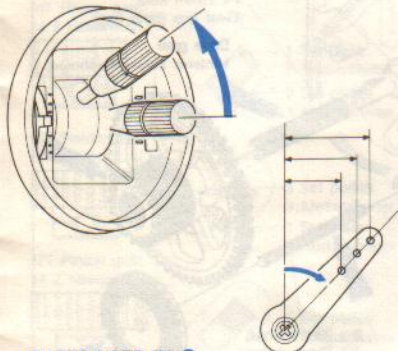
(Rod bag)



7 SERVO HORN AND STROKE
SERVO HORN UND AUSSCHLAG

Movement of speed controller or steering 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.



PARTS USED IN 8
BAUTEILE IN SCHRITT 8
(Gear box parts bag)

- Small bevel gear
Kegelrad klein

- C-ring
C-Ring

(Thrust washer bag)

- Thrust washer
Druckscheibe

(Blister pack)

- Bevel gear R
Kegelrad rechts

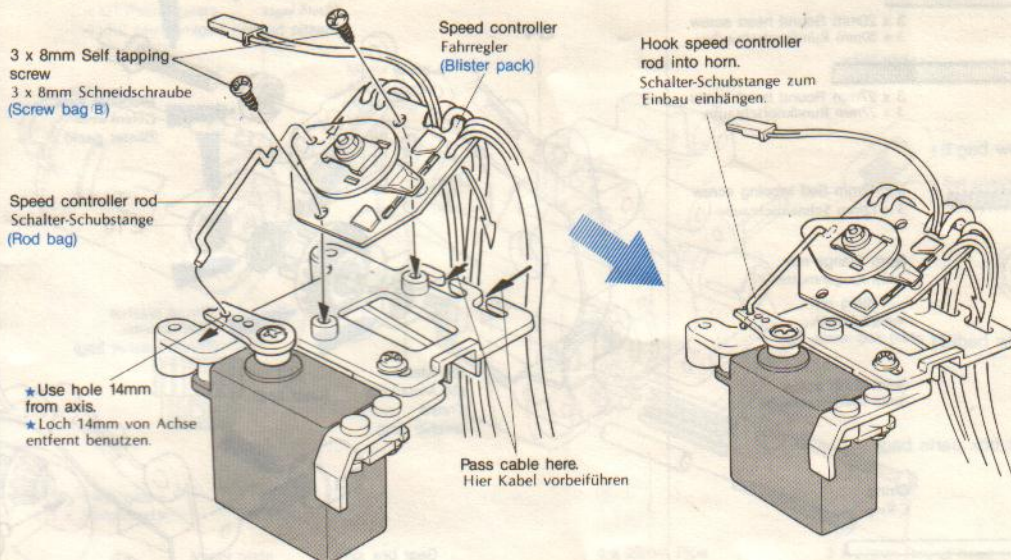
- Gear box joint
Getriebewelle

LUBRICATING

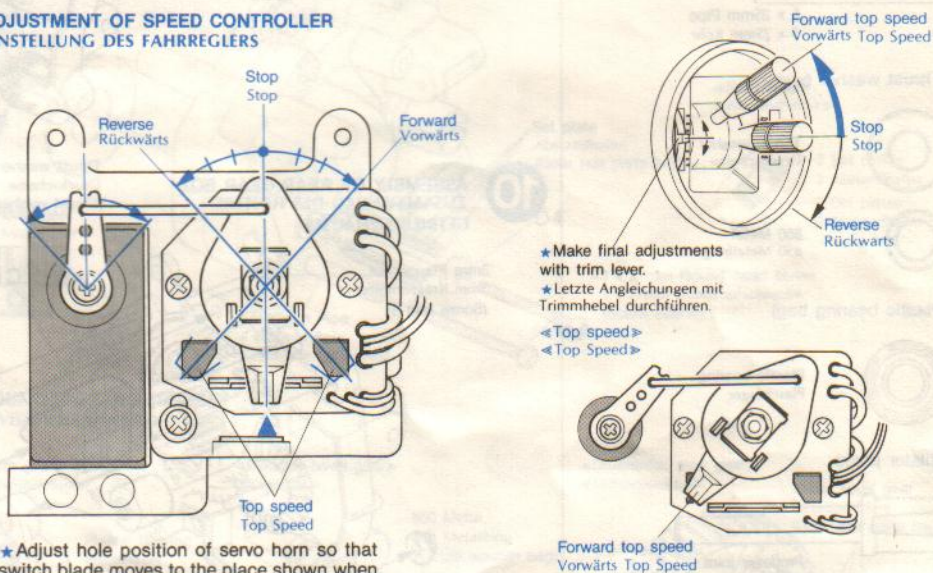
Apply molybdenum grease to gears and bearings. In particular, make sure to apply molybdenum grease prior to assembly of gear boxes.

MOLYBDÄN-FETT

6 ATTACHING SPEED CONTROLLER
FAHRREGLER

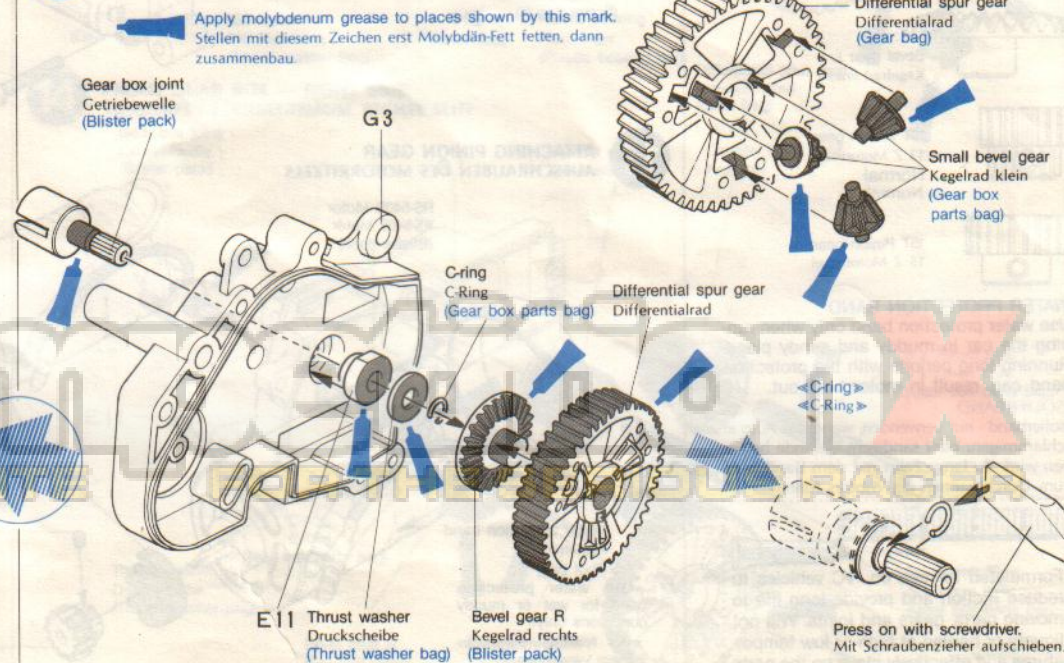


7 ADJUSTMENT OF SPEED CONTROLLER
EINSTELLUNG DES FAHRREGLERS



- * 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.

8 REAR GEAR BOX — RIGHT SIDE
HINTERES GETRIEBEGEHÄUSE RECHTE SEITE




TAMIYA COLOR CATALOGUE
The latest in cars, boats, tanks and ships. Motorized, radio controlled and museum quality models are all shown in full color in Tamiya's latest catalogue. At your nearest hobby supply house.


PARTS USED IN 9, 10 AND 11
BAUTEILE IN SCHRITT 9, 10 UND 11
 (Screw bag A)

 3 x 20mm Round head screw
 3 x 20mm Rundkopfschraube


 3 x 27mm Round head screw
 3 x 27mm Rundkopfschraube

(Screw bag B)


 3 x 12mm Self tapping screw
 3 x 12mm Schneidschraube

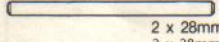
 3mm Flange nut
 3mm Kragennutter

(Screw bag C)

 3mm Grub screw
 3mm Madenschraube


(Gear box parts bag)


 C-ring
 C-Ring

 2 x 28mm Shaft
 2 x 28mm Achse


 5 x 25mm Pipe
 5 x 25mm Rohr

(Thrust washer bag)

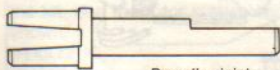
 Thrust washer
 Druckscheibe


 850 Metal
 850 Metallring

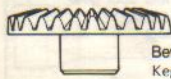
(Plastic bearing bag)


 Plastic bearing
 Plastiklager

(Blister pack)

 Propeller joint
 Gelenkwelle

 Gear box joint
 Getriebewelle

 Bevel gear L
 Kegelrad links

 13T Pinion gear
 13 Z Motorritzel
 Normal

 15T Pinion gear
 15 Z Motorritzel

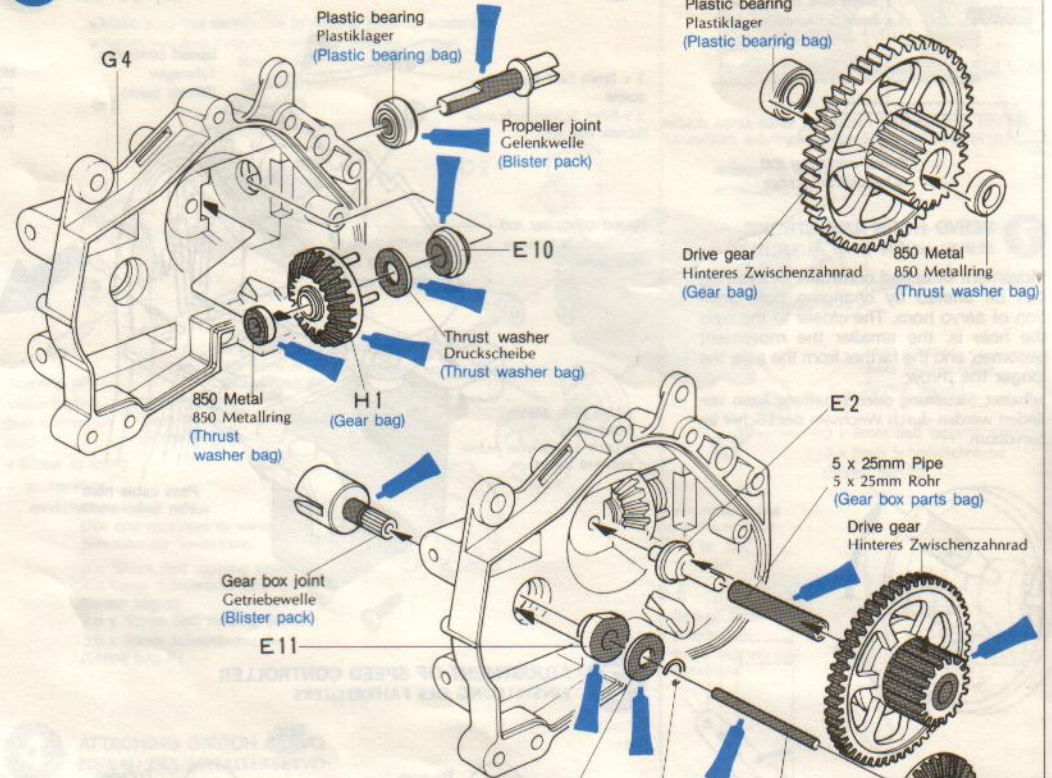
WATER PROTECTION BAND
 Use water protection band only when running the car in muddy and sandy place. Running long periods with the protection band can result in motor burn out.

ISOLIERBAND
 Isolierband - nur verwenden, wenn das Auto in schlammigem oder sandigem Gelände betrieben wird. Zu lange Fahrt mit dem Band kann zum Durchbrennen des Motors führen.

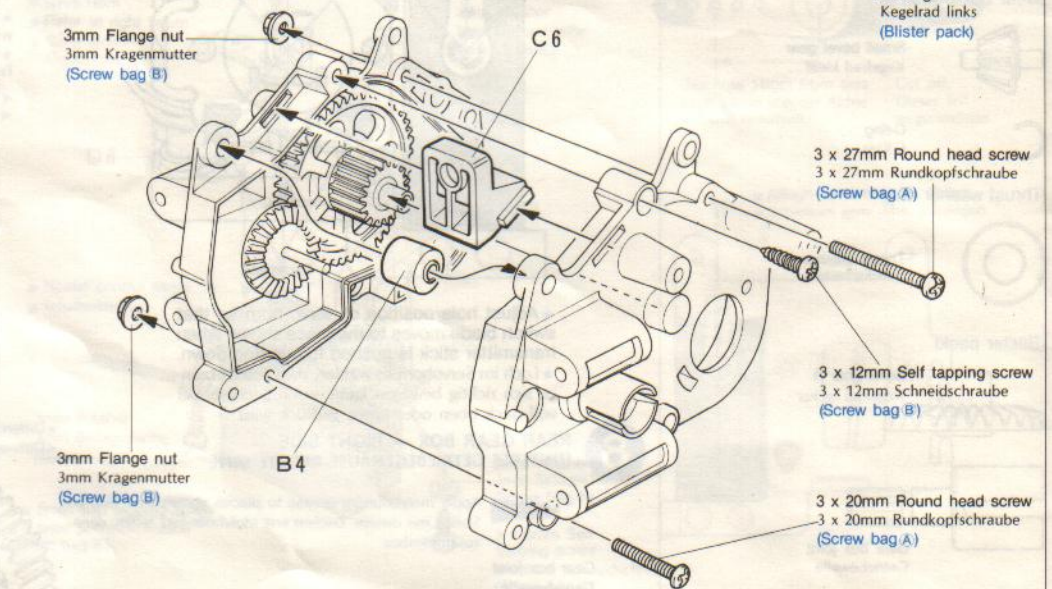


Formulated for use on R/C vehicles to reduce friction and provide long life to moving parts, gears and joints. Will not liquefy or harden at high or low temperatures and effectively stays on the parts requiring lubrication.

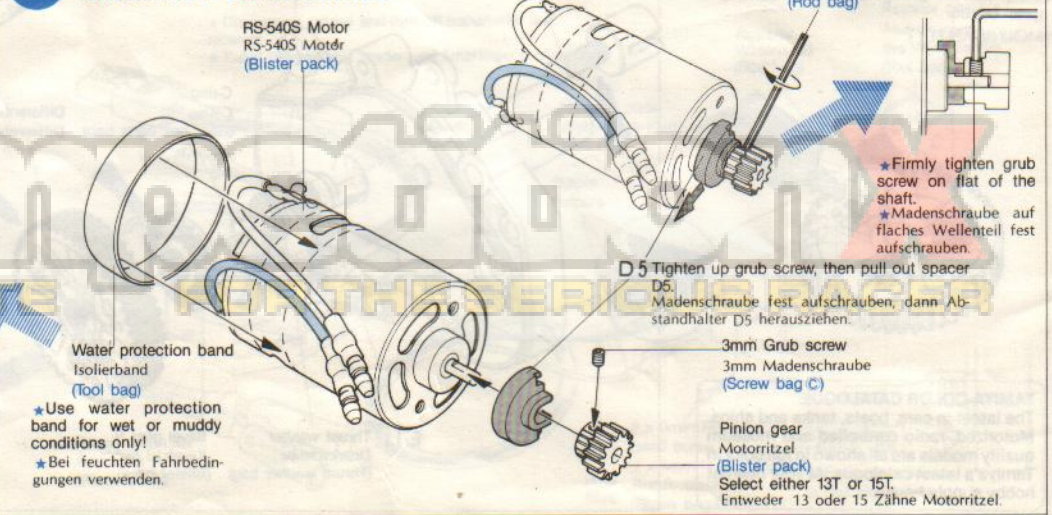
9 REAR GEAR BOX — LEFT SIDE
HINTERES GETRIEBEGEHAUSE LINKE SEITE



10 ASSEMBLY OF REAR GEAR BOX
ZUSAMMENBAU DES HINTEREN GETRIEBEGEHAUSES



11 ATTACHING PINION GEAR
AUFSCHAUBEN DES MOTORRITZELS



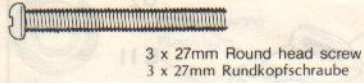
★ Firmly tighten grub screw on flat of the shaft.
 ★ Madenschraube auf flaches Wellenteil fest aufschrauben.

D5 Tighten up grub screw, then pull out spacer D5.
 Madenschraube fest aufschrauben, dann Abstandhalter D5 herausziehen.

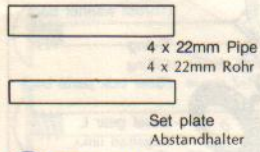
3mm Grub screw
 3mm Madenschraube
 (Screw bag C)

Pinion gear
 Motorritzel
 (Blister pack)
 Select either 13T or 15T.
 Entweder 13 oder 15 Zähne Motorritzel.

PARTS USED IN 10
BAUTEILE IN SCHRITT 10
 (Screw bag A)



(Gear box parts bag)

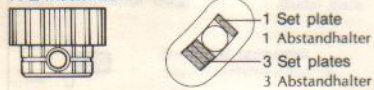


12 GEARING
ÜBERSETZUNGEN

Pinion gear positioning requires use of set plates.
 Das Greifen des Motorritzelz ist von Abstandhaltern abhängig.

WHEN USING OTHER PINION GEARS
RITZEL AUS ERSATZTEIL ANGEBOT

14T Pinion gear
 14 Z. Motorritzel



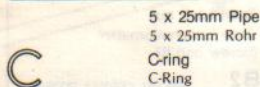
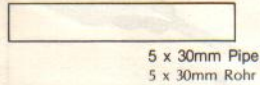
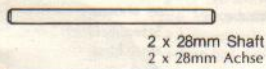
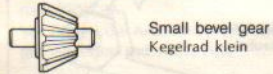
16T Pinion gear
 16 Z. Motorritzel



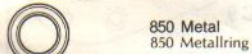
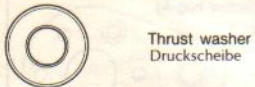
17T Pinion gear
 17 Z. Motorritzel



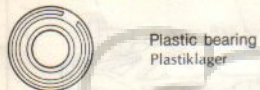
PARTS USED IN 11 AND 12
BAUTEILE IN SCHRITT 11 UND 12
 (Gear box parts bag)



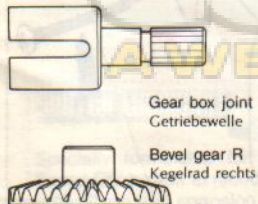
(Thrust washer bag)



(Plastic bearing bag)

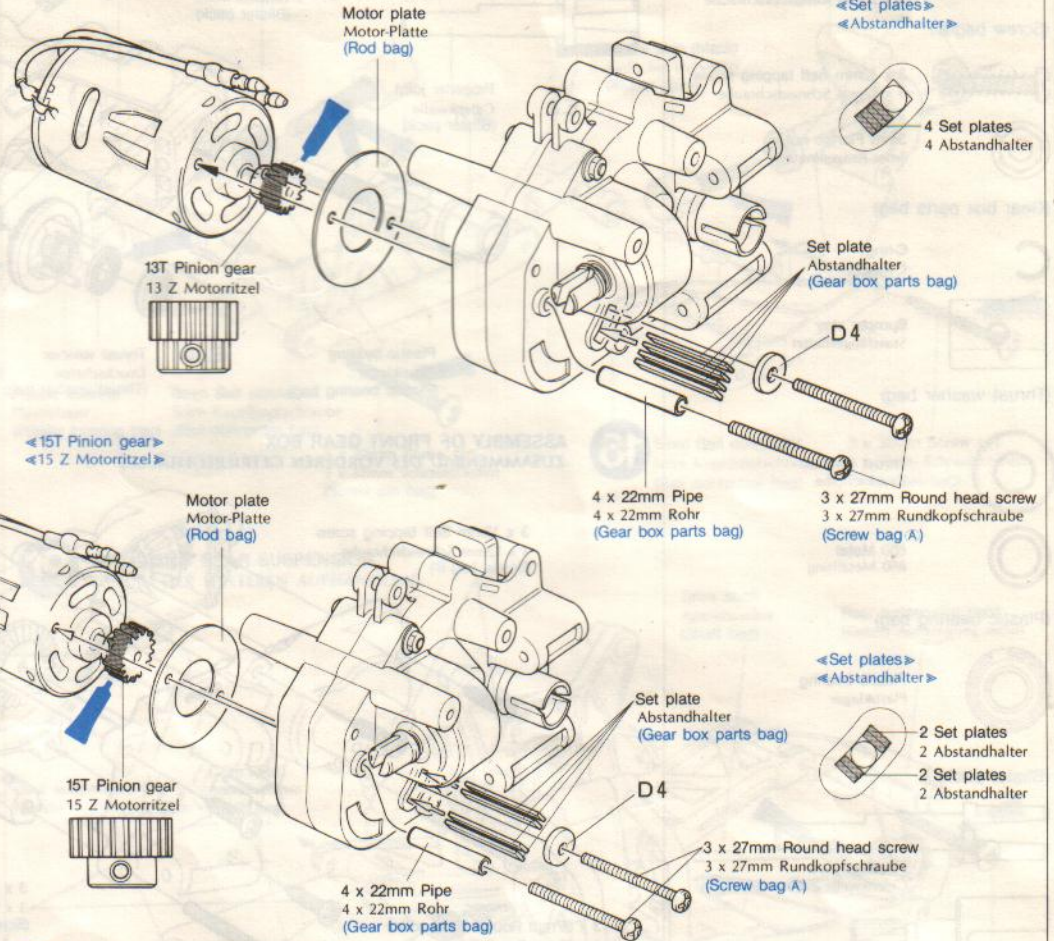


(Blister pack)



12 ATTACHING MOTOR
EINBAU DES MOTORS

«13T Pinion gear»
 «13 Z. Motorritzel»

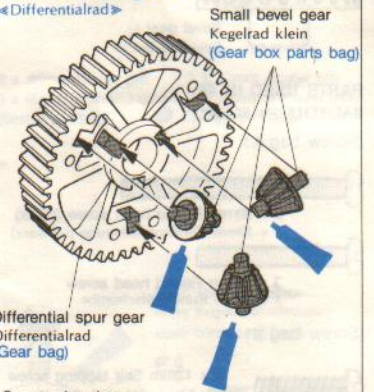
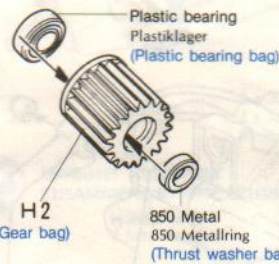


13 COUNTER GEAR ASSEMBLY
ZWISCHENZAHNRAD

«Counter gear»
 «Zwischenzahnrad»

«Counter bevel gear»
 «Kegelrad»

«Differential spur gear»
 «Differentialrad»



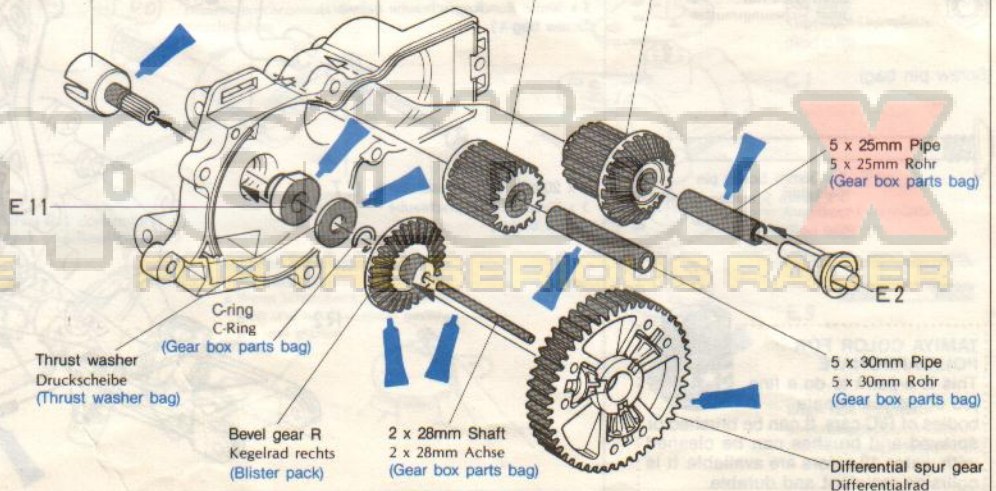
14 FRONT GEAR BOX — RIGHT SIDE
VORDERES GETRIEBEGEHÄUSE RECHTE SEITE

Gear box joint
 Getriebewelle
 (Blister pack)


G1

Counter gear
 Zwischenzahnrad


Counter bevel gear
 Kegelrad




PARTS USED IN 15 AND 16
BAUTEILE IN SCHRITT 15 UND 16
 (Screw bag A)


 3 x 27mm Round head screw
 3 x 27mm Rundkopfschraube


(Screw bag B)

 3 x 12mm Self tapping screw
 3 x 12mm Schneidschraube


 3mm Flange nut
 3mm Kragennutter

(Gear box parts bag)

 C-ring
 C-Ring

 Bumper stay
 Stossfängerhalter

(Thrust washer bag)

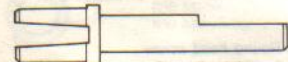
 Thrust washer
 Druckscheibe

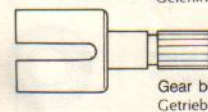
 850 Metal
 850 Metallring


(Plastic bearing bag)

 Plastic bearing
 Plastiklager


(Blister pack)

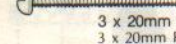
 Propeller joint
 Gelenkwelle

 Gear box joint
 Getriebewelle


 Bevel gear L
 Kegelrad links


PARTS USED IN 17
BAUTEILE IN SCHRITT 17
 (Screw bag A)

 3 x 30mm Round head screw (black)
 3 x 30mm Rundkopfschraube (schwarz)


 3 x 20mm Round head screw
 3 x 20mm Rundkopfschraube

(Screw bag B)

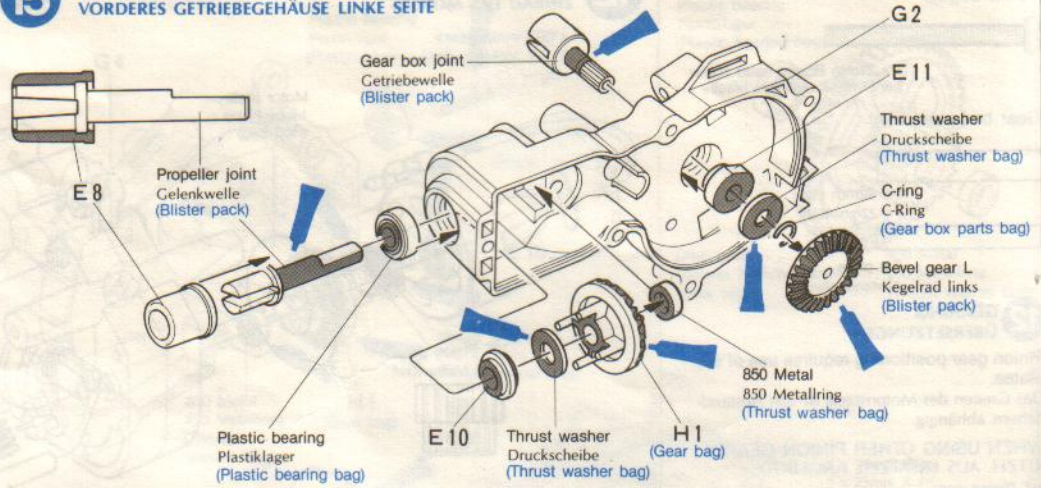
 3 x 12mm Self tapping screw
 3 x 12mm Schneidschraube

 3mm Lock nut
 3mm Sicherungsmutter

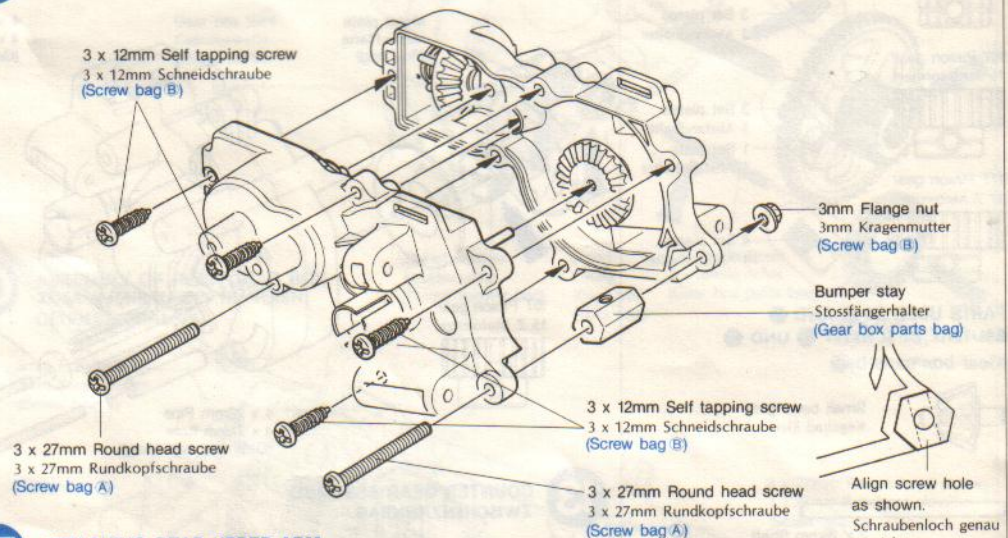
(Screw pin bag)

 3 x 38mm Screw pin
 3 x 38mm Schraubzapfen

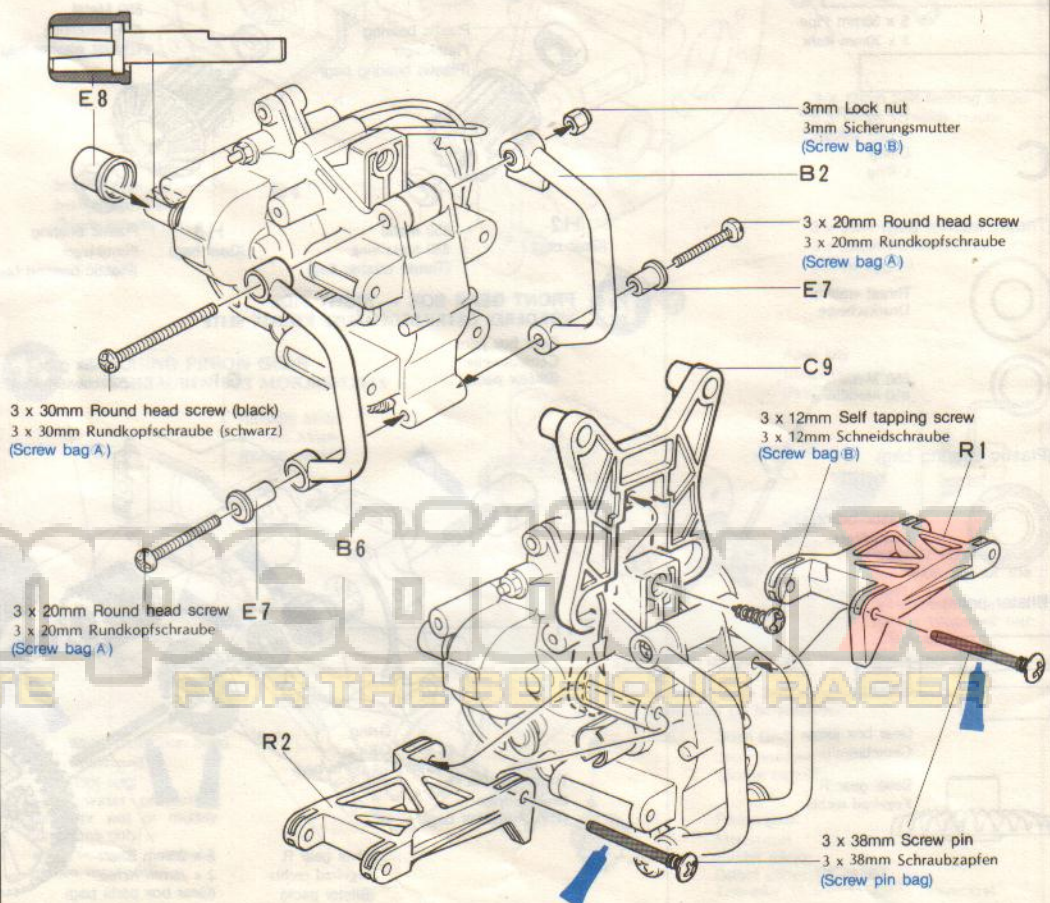
15 FRONT GEAR BOX — LEFT SIDE
VORDERES GETRIEBEGEHÄUSE LINKE SEITE



16 ASSEMBLY OF FRONT GEAR BOX
ZUSAMMENBAU DES VORDEREN GETRIEBEGEHÄUSES



17 ATTACHING REAR UPPER ARM
EINBAU DER HINTEREN, OBEREN QUERLENKERARM

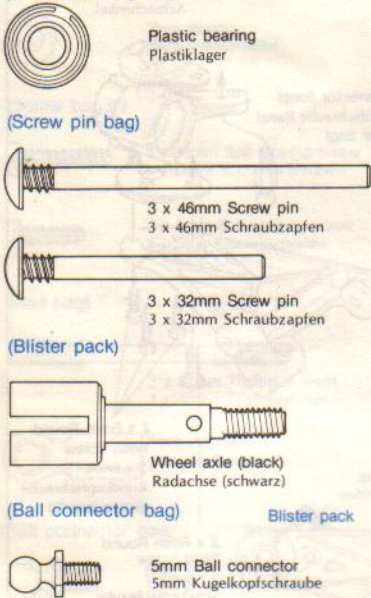


TAMIYA COLOR FOR POLYCARBONATE

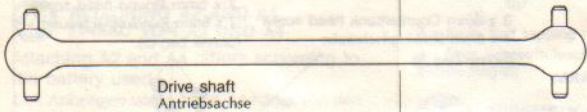
This is a paint to do a fine job on polycarbonate bodies of R/C cars. It can be brushed or sprayed and brushes can be cleaned with water. 12 colors are available. It is collision resistant and durable.



PARTS USED IN 18 AND 19
BAUTEILE IN SCHRITT 18 UND 19
 (Plastic bearing bag)



(Shaft bag)

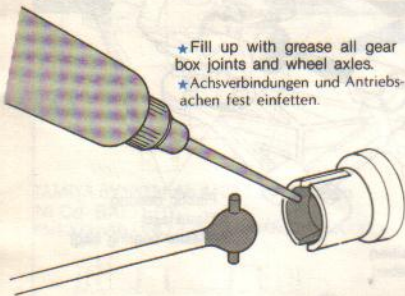


19 LUBRICATING DRIVE SHAFTS
FETTEN

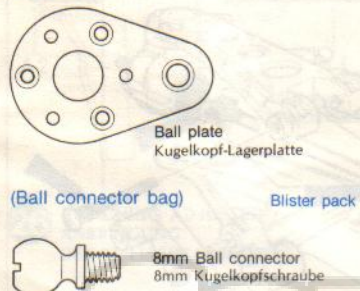
Make sure to check drive shafts and to fill up units with molybdenum grease prior to running car.

Vor Fahren die Antriebsachsen überprüfen und gut einfetten mit Moly-Fett.

- ★ Fill up with grease all gear joints and wheel axles.
- ★ Achsverbindungen und Antriebsachsen fest einfetten.



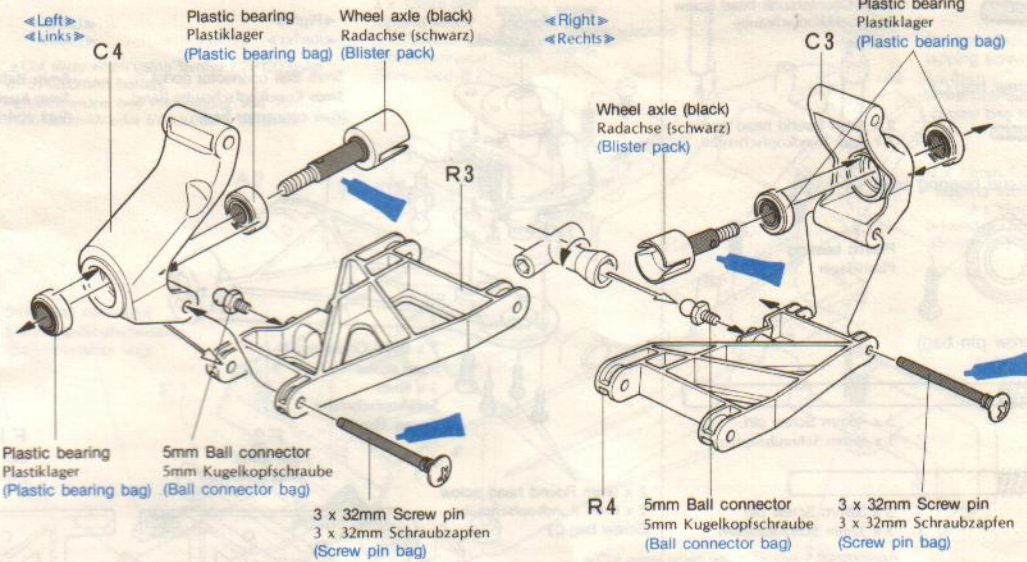
PARTS USED IN 20
BAUTEILE IN SCHRITT 20
 (Rod bag)



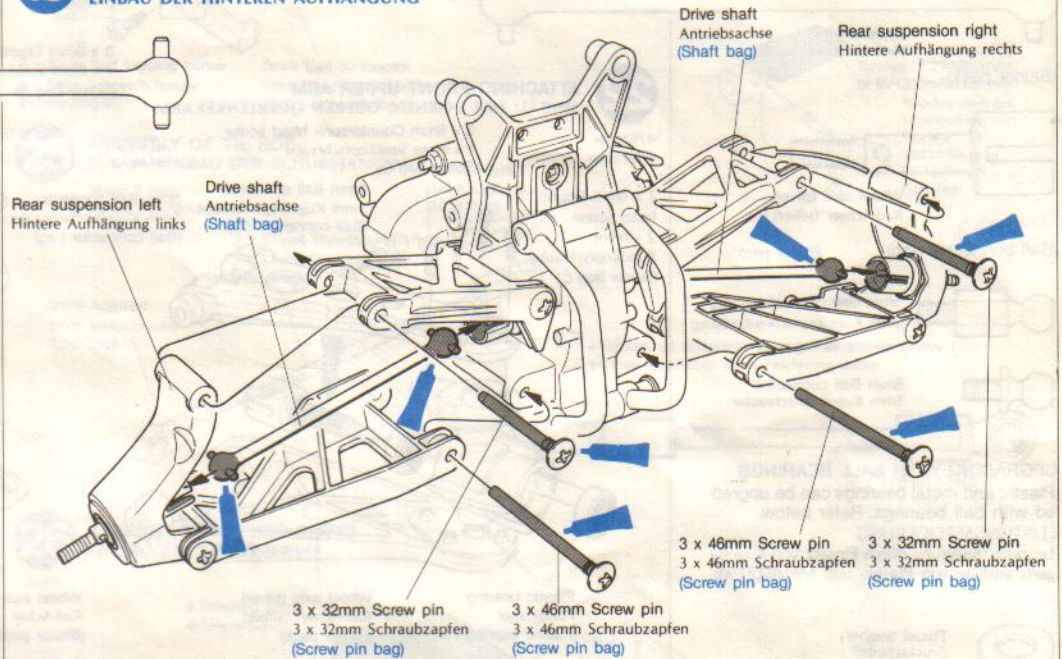
SWITCH LUBRICANT

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.

18 ASSEMBLY OF REAR SUSPENSION
ZUSAMMENBAU DER HINTEREN AUFHÄNGUNG



19 ATTACHING REAR SUSPENSION
EINBAU DER HINTEREN AUFHÄNGUNG



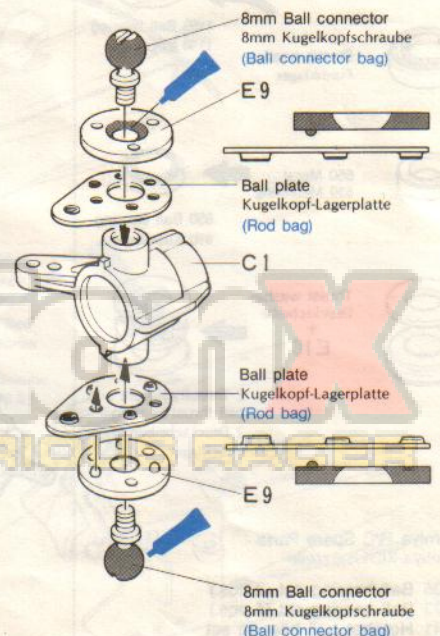
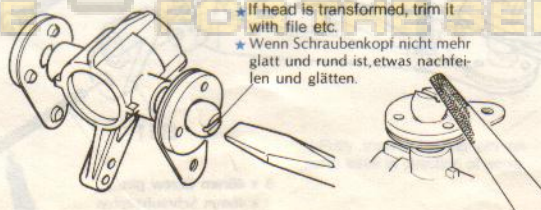
20 UPRIGHT ASSEMBLY
ZUSAMMENBAU DER ACHSSCHENKEL

Make 2 sets.
2 Satz machen.

«Tapping C1»
«Zusammenschrauben von C1»



«8mm Ball connector»
«8mm Kugelkopfschraube»



PARTS USED IN ①, ② AND ③
BAUTEILE IN SCHRITT ①, ② UND ③
 (Screw bag B)

3 x 8mm Countersunk head screw
 3 x 8mm Senkkopfschraube

(Screw bag C)

2 x 6mm Round head screw
 2 x 6mm Rundkopfschraube

(Plastic bearing bag)

Plastic bearing
 Plastiklager

(Screw pin bag)

3 x 46mm Screw pin
 3 x 46mm Schraubzapfen

3 x 32mm Screw pin
 3 x 32mm Schraubzapfen

(Shaft bag)

Drive shaft
 Antriebsachse

(Blister pack)

Wheel axle (silver)
 Rad-Achse (silber)

(Ball connector bag) Blister pack

5mm Ball connector (long)
 5mm Kugelpopfschraube (lang)

5mm Ball connector
 5mm Kugelpopfschraube

UPGRADING WITH BALL BEARINGS
 Plastic and metal bearings can be upgraded with ball bearings. Refer below.
LEISTUNGSSTEIGERUNG
 Leistungssteigerung durch Einsatz von Kugellagern anstelle von Plastik- und Metall-Lagern.

Thrust washer
 Druckscheibe
 + E11

1150 Ball bearing
 1150 Kugellager

Plastic bearing
 Plastiklager

850 Metal
 850 Metallring

850 Ball Bearing
 850 Kugellager

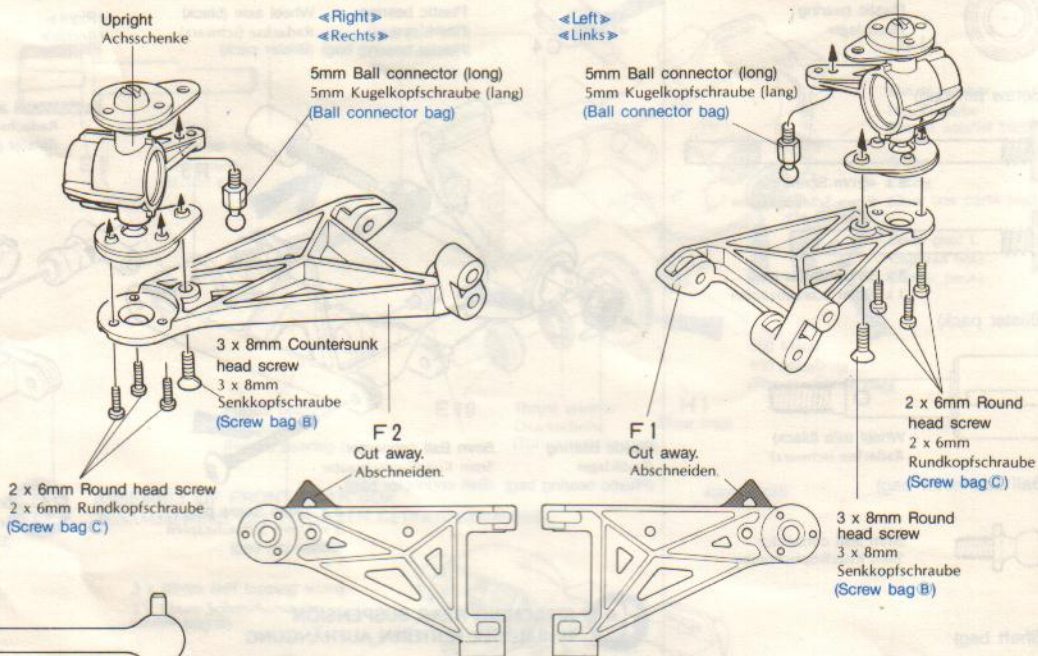
Thrust washer
 Druckscheibe
 + E10

2 Thrust washers and ball thrust bearing
 2 Druckscheiben und Drucklager

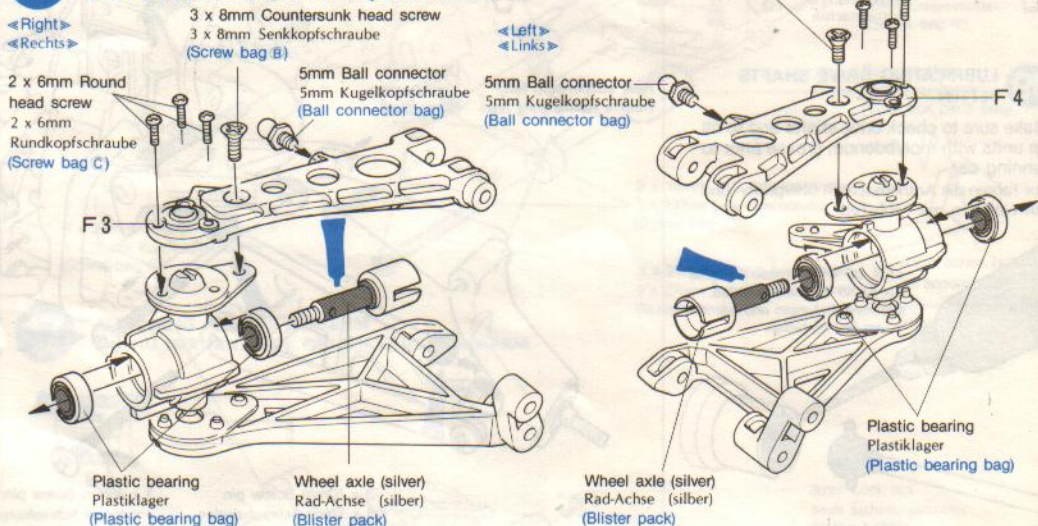
Tamiya R/C Spare Parts
 Tamiya-RC-Ersatzteile

- 5036 Ball bearing set (2 pcs.)
- 5073 Ball bearing set (4 pcs.)
- 5241 Hotshot ball bearing set
- 5242 850 Ball bearing set
- 5284 Ball thrust bearing set

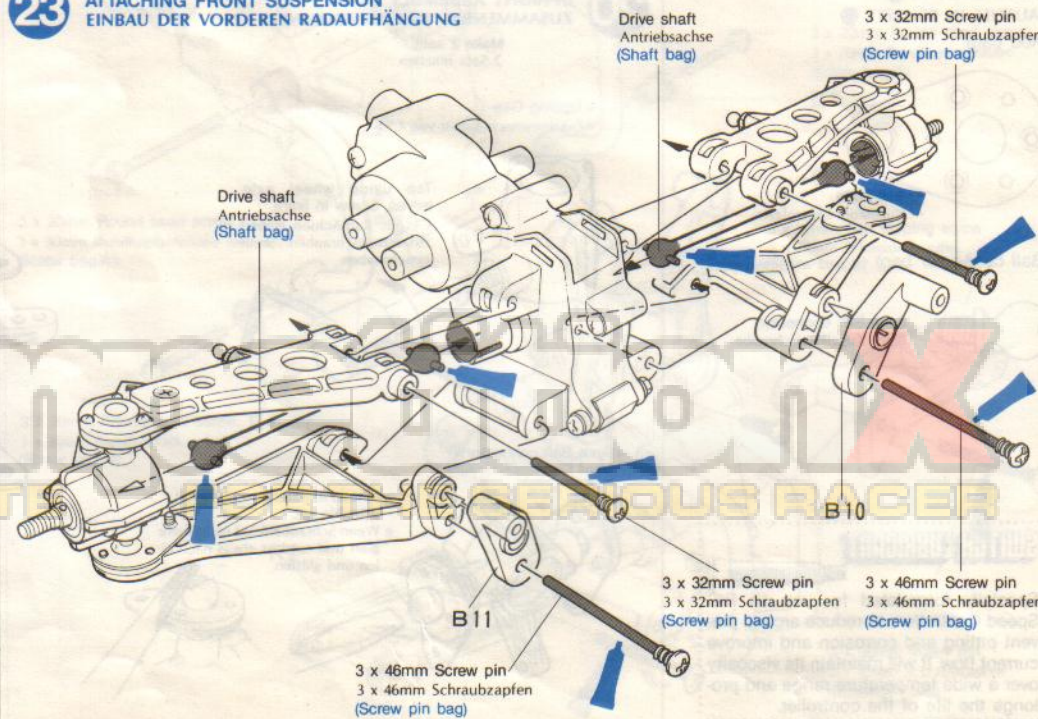
21 ATTACHING FRONT LOWER ARM
EINBAU DER VORNEN, UNTEREN QUERLENKERARM



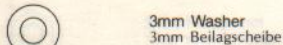
22 ATTACHING FRONT UPPER ARM
EINBAU DER VORNEN, OBEREN QUERLENKERARM



23 ATTACHING FRONT SUSPENSION
EINBAU DER VORDEREN RADAUFHÄNGUNG

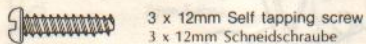


**PARTS USED IN ●, ○ AND ●
BAUTEILE IN SCHRITT ●, ○ UND ●**
(Screw bag A)

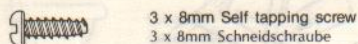


3mm Washer
3mm Beilagscheibe

(Screw bag B)

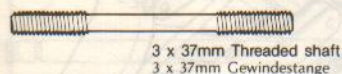


3 x 12mm Self tapping screw
3 x 12mm Schneidschraube

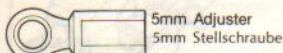


3 x 8mm Self tapping screw
3 x 8mm Schneidschraube

(Rod bag)



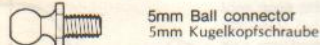
3 x 37mm Threaded shaft
3 x 37mm Gewindestange



5mm Adjuster
5mm Stellschraube

(Ball connector bag)

Blister pack

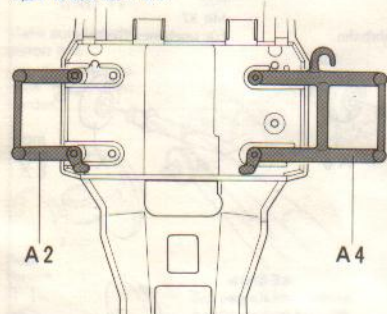


5mm Ball connector
5mm Kugelpopschraube

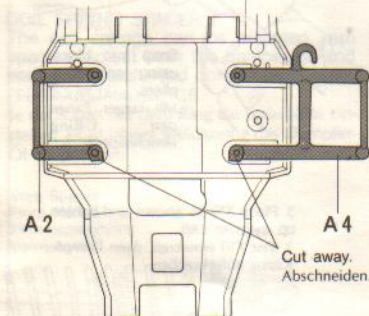
**24 ATTACHING A2 AND A4
EINBAU VON A2 UND A4**

Attaching A2 and A4 differs according to the battery used.
Das Anbringen von A2 und A4 hängt von den verwendeten Batterien ab.

**7.2V RACING PACK
7.2V RACING PACK**



**TAMIYA 6V-1200mAh AND 7.2V-1200mAh
Ni-Cd BATTERY
6V-1200mAh UND 7.2V-1200mAh Ni-Cd AKKU**



**26 ATTACHING ADJUSTER
ANBRINGUNG
DER STELLSCHRAUBKÖPFE**

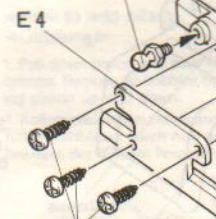


★ Pinch with long nose pliers.
★ Mit langer Zange halten.

**24 CHASSIS ASSEMBLY
ZUSAMMENBAU DES CHASSIS**

★ Cut away when using Tamiya 7.2V-1200mAh or 6V-1200mAh battery.
★ Abschneiden bei Verwendung von Tamiya 7.2V-1200mAh oder 6V-1200mAh-Batterien.

5mm Ball connector
5mm Kugelpopschraube
(Ball connector bag)

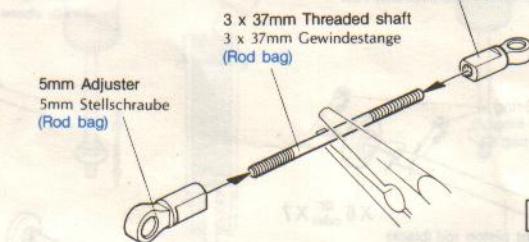


3 x 8mm Self tapping screw
3 x 8mm Schneidschraube
(Screw bag B)

5mm Ball connector
5mm Kugelpopschraube
(Ball connector bag)

**25 ASSEMBLY OF TIE ROD
ZUSAMMENBAU DER SCHUBSTANGEN**

Make 2 sets.
2 Satz machen.



5mm Adjuster
5mm Stellschraube
(Rod bag)

3 x 37mm Threaded shaft
3 x 37mm Gewindestange
(Rod bag)

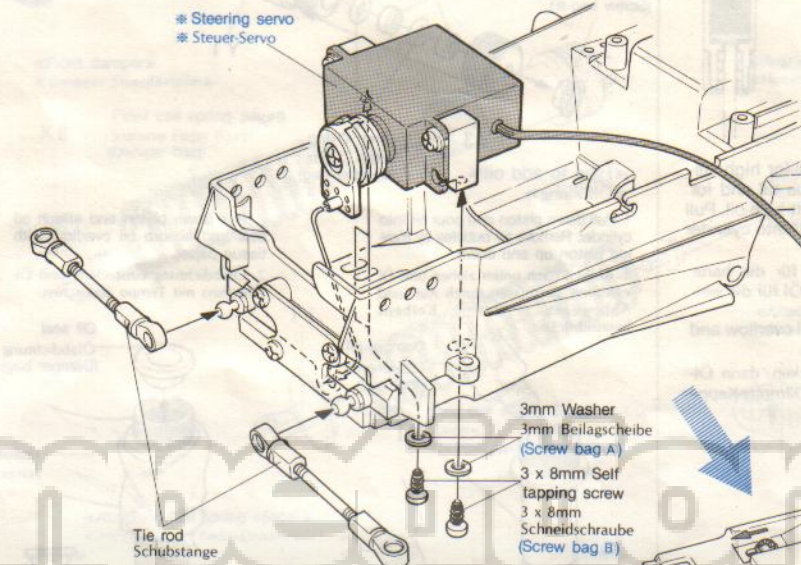
5mm Adjuster
5mm Stellschraube
(Rod bag)

★ Tighten up adjusters to length as shown below.
★ Länge angleichen gem. Zeichnung unten.



(Full sized)
(Originalgröße)

**26 ATTACHING STEERING SERVO
EINBAU DES STEUER-SERVO**



★ Steering servo
★ Steuer-Servo

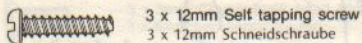
Tie rod
Schubstange

3mm Washer
3mm Beilagscheibe
(Screw bag A)
3 x 8mm Self tapping screw
3 x 8mm Schneidschraube
(Screw bag B)

★ Fully insert steering pin on servo saver in direction of arrow.

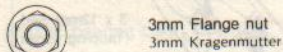
PARTS USED IN
BAUTEILE IN SCHRITT

(Screw bag B)

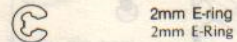


PARTS USED IN
BAUTEILE IN SCHRITT

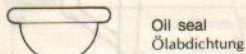
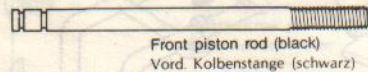
(Screw bag B)



(Screw bag C)



(Damper bag)



TAMIYA DAMPER OIL SET

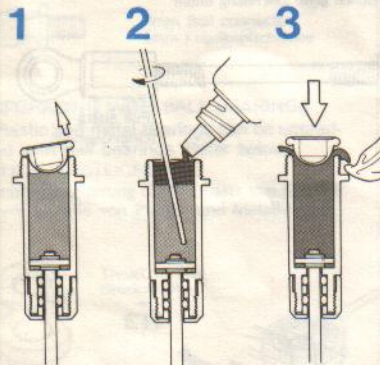
The separately sold Tamiya Damper Oil Set is for adjusting shock absorbers to various road conditions. The soft type and hard type damper oil comes in a set containing 20cc each.

TAMIYA DÄMPFER-ÖL (nicht im Kit)

Dies besteht aus hartem und weichem Öl. Jedes Fläschen enthält 20cc. Je nach Gelände und Kurs kann man mit diesem Öl alle Dämpfer justieren.

HOW TO ADJUST
EINSTELLUNG DES DÄMPFERS

- 1 Remove oil seal gently. Pulling hard will result in oil spill.
Ölabdichtung langsam ausziehen. Schnelles Ausziehen sprüht Öl.



- 2 When adjusting damper for high viscosity, use the hard type oil and for low viscosity, use the soft type oil. Pull down piston and pour oil into cylinder and pour oil into cylinder using a thin stick.

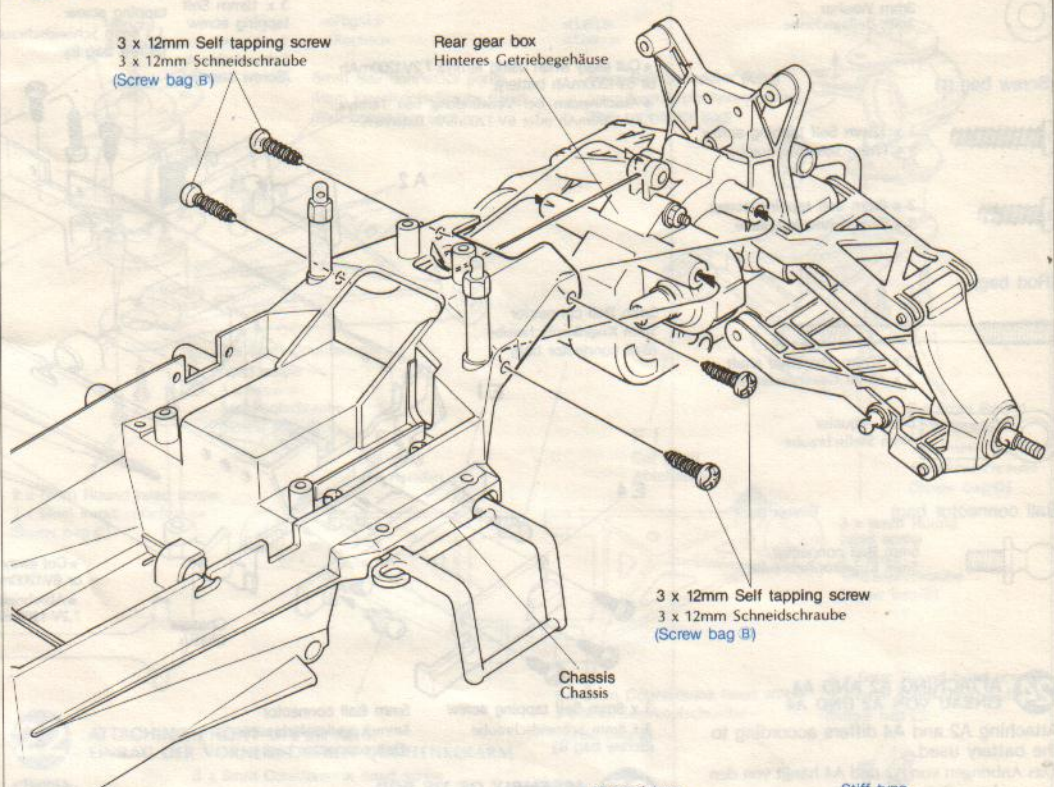
Füllen Sie das harte Öl für die harte Viskosität und das weiche Öl für die weiche Viskosität ein.

- 3 Attach oil seal, absorb oil overflow and tighten up cylinder cap.
Erst Ölabdichtung einstecken, dann Öl-Überfluss abwischen und Dämpfer-Kappe aufschrauben.

PAINT MARKER

Hand held, Tamiya enamel paint markers. For the final detail touch, and professional results. 12 of the most popular colors used in modeling. See and test them at your local hobby supply house.

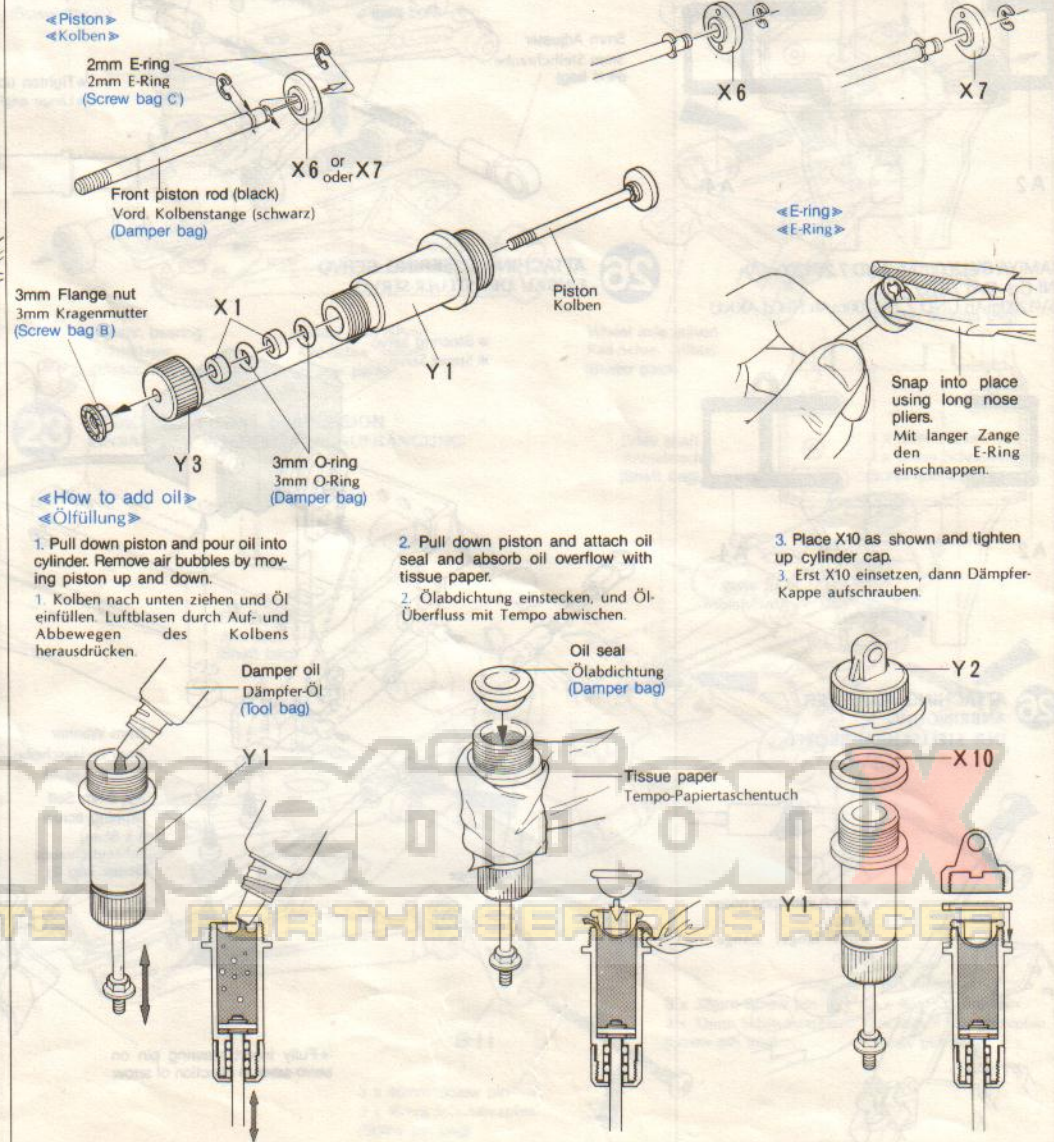
27 ATTACHING REAR GEAR BOX
EINBAU DES HINTEREN GETRIEBEGEHÄUSES



Normal type
Attach X6.
For flat surface.
Normal
Mit X6.
Für ebene Fahrbahn

Stiff type
Attach X7.
For rough terrain.
Hart
Mit X7.
Für unebenes Gelände

28 ASSEMBLY OF FRONT DAMPER
VORDERER STOSSDÄMPFER



«Piston»
«Kolben»

2mm E-ring
2mm E-Ring
(Screw bag C)

Front piston rod (black)
Vord. Kolbenstange (schwarz)
(Damper bag)

3mm Flange nut
3mm Kragenmutter
(Screw bag B)

X1

3mm O-ring
3mm O-Ring
(Damper bag)

«How to add oil»
«Ölfüllung»

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 Kolbens herausdrücken.

2. Pull down piston and attach oil seal and absorb oil overflow with tissue paper.
2. Ölabdichtung einstecken, und Öl-Überfluss mit Tempo abwischen.

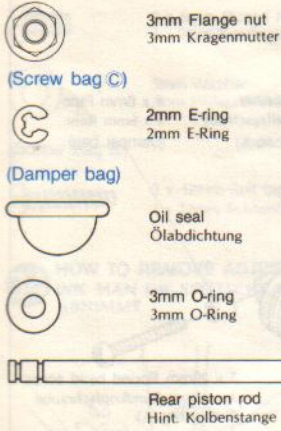
3. Place X10 as shown and tighten up cylinder cap.
3. Erst X10 einsetzen, dann Dämpfer-Kappe aufschrauben.

Oil seal
Ölabdichtung
(Damper bag)

Tissue paper
Tempo-Papiertaschentuch

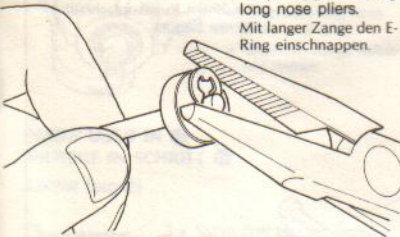
Snap into place using long nose pliers.
Mit langer Zange den E-Ring einschnappen.

PARTS USED IN AND BAUTEILE IN SCHRITT UND
(Screw bag B)



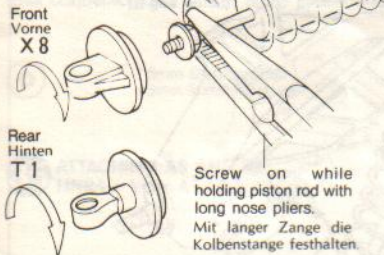
ATTACHING E-RING EINSETZEN DER E-RING

Snap into place using long nose pliers. Mit langer Zange den E-Ring einschnappen.



30 TAPPING X8 AND T1 ZUSAMMENSCHRAUBEN VON X8 UND T1

Make sure to hold piston rod. Die Kolbenstange muss festgehalten werden.



COIL SPRING SPACER

The coil springs can be adjusted with spacers. Adjust both the damper oil and spring to match road conditions.

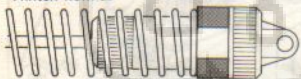
FEDER-ABSTAND-RINGE

Je nach Kurs mit dem Ring die Federhärte einstellen. Es ist besser, gleichzeitig das Dämpfer-Öl zu justieren.

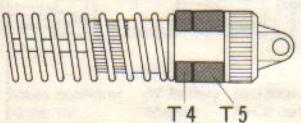
3mm Spacer
Front Normal
3mm Abstandsring
Vorne normal



6mm Spacer
Front Stiff
Rear Normal
6mm Abstandsring
Vorne starr
Hinten normal

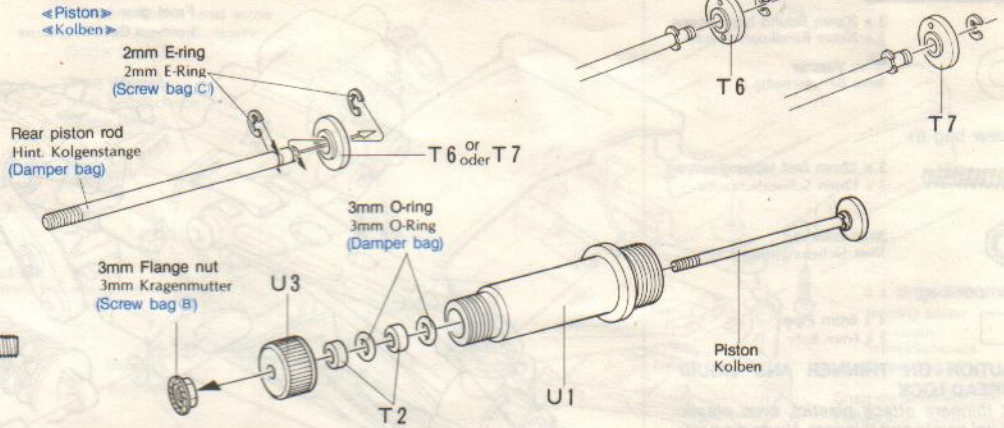


3mm Spacer + 6mm Spacer
Rear Stiff
3mm Abstandsring + 6mm Abstandsring
Hinten starr



29 ASSEMBLY OF REAR DAMPER HINTERER STOSSDÄMPFER

Make 2 sets. 2 Satz machen.

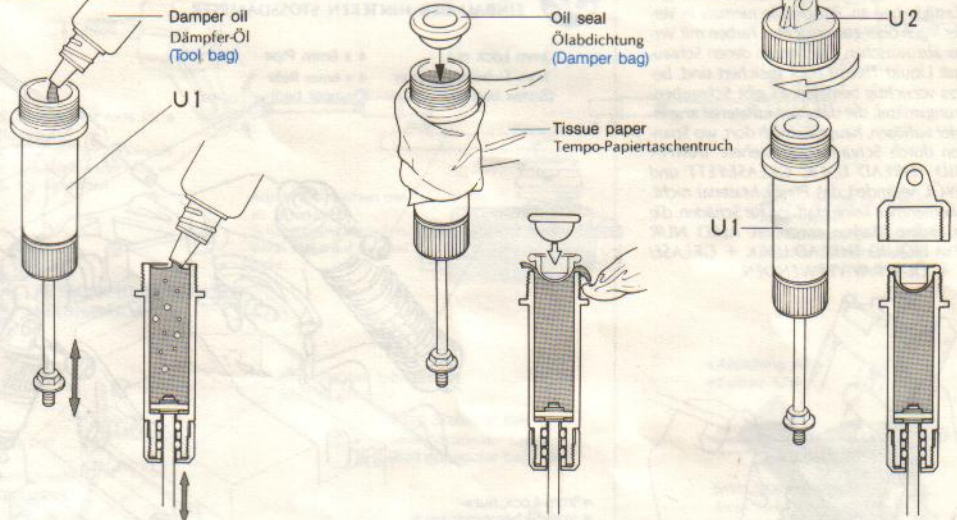


«How to add oil» «Öfüllung»

1. Pull down piston and pour oil into cylinder. Remove air bubbles by moving piston up and down.
1. Kolben nach unten ziehen und Öleinfüllen. Luftblasen durch Auf- und Abbewegen des Kolbens herausdrücken.

2. Pull down piston and attach oil seal and absorb oil overflow with tissue paper.
2. Ölabdichtung einstecken, und Öl-Überfluss mit Tempo abwischen.

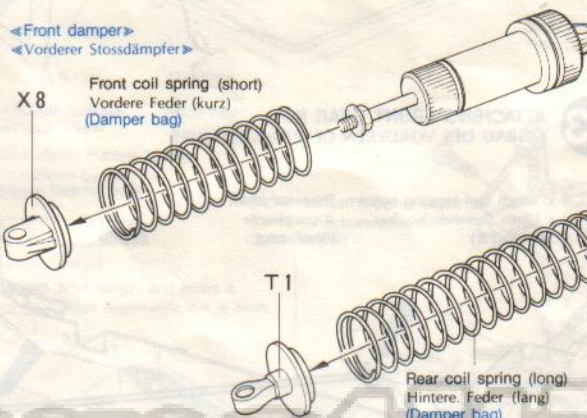
3. Tighten up cylinder cap.
3. Dämpfer-Kappe aufschrauben.



30 ATTACHING COIL SPRING EINBAU DER FEDER

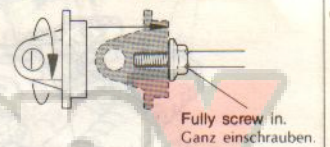
«Front damper» «Vorderer Stossdämpfer»

X8 Front coil spring (short) Vordere Feder (kurz) (Damper bag)



«Rear damper» «Hinterer Stossdämpfer»

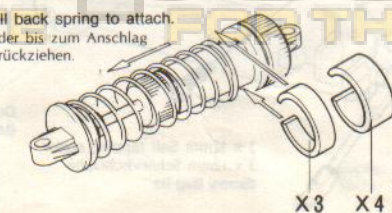
«Attaching X8 and T1» «Einbau der X8 und T1»



«Attaching coil spring spacer» «Anbrining der Feder-Distanzstücke»

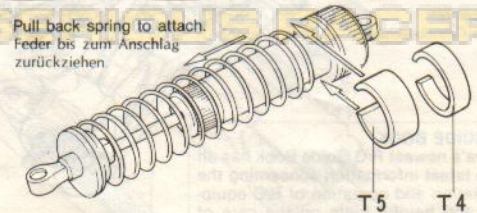
«Front» «Vorn»

Pull back spring to attach. Feder bis zum Anschlag zurückziehen.



«Rear» «Hinten»

Pull back spring to attach. Feder bis zum Anschlag zurückziehen.



**PARTS USED IN ①, ② AND ③
BAUTEILE IN SCHRITT ①, ② UND ③**

(Screw bag A)



3 x 20mm Round head screw
3 x 20mm Rundkopfschraube



3mm Washer
3mm Beilagscheibe

(Screw bag B)



3 x 12mm Self tapping screw
3 x 12mm Schneidschraube



3mm Lock nut
3mm Sicherungsmutter

(Damper bag)



4 x 6mm Pipe
4 x 6mm Rohr

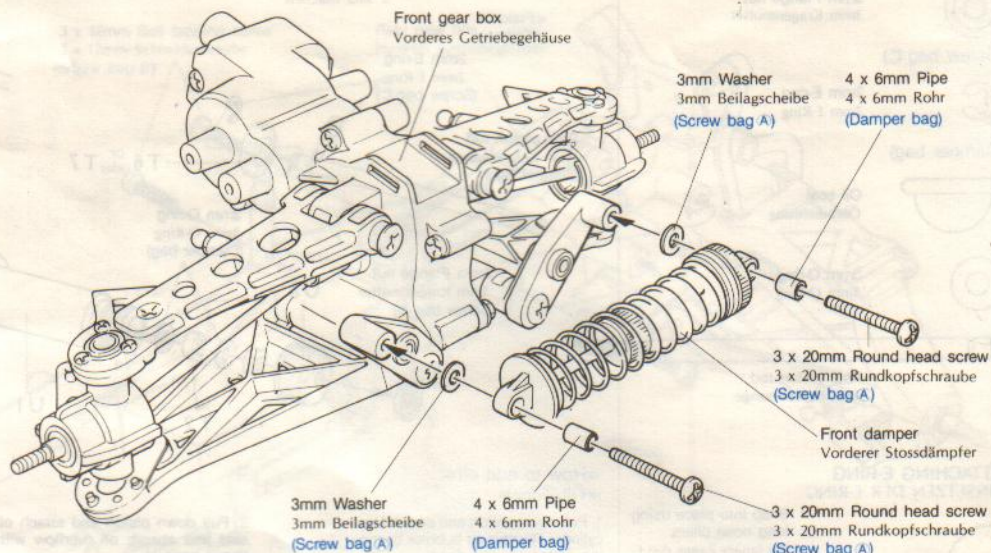
**CAUTION ON THINNER AND LIQUID
THREAD LOCK**

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!

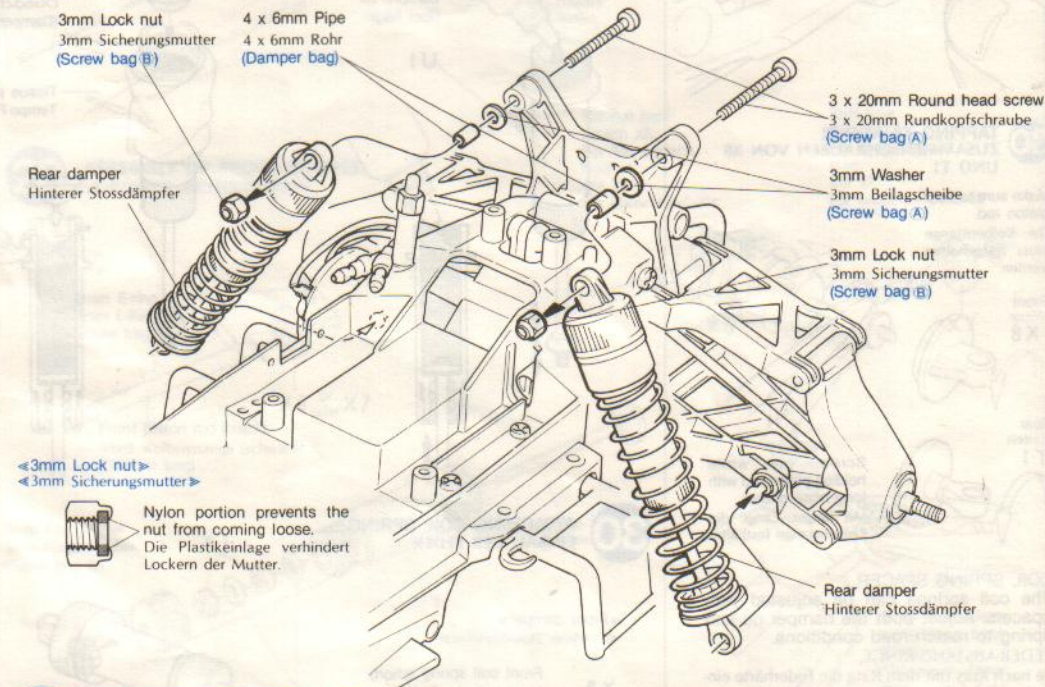
**VORSICHT MIT VERDÜNNER UND LIQUID
THREAD LOCK (SCHRAUBENSICHERUNG)**

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 + ÖL-SPRAY VERWENDEN.

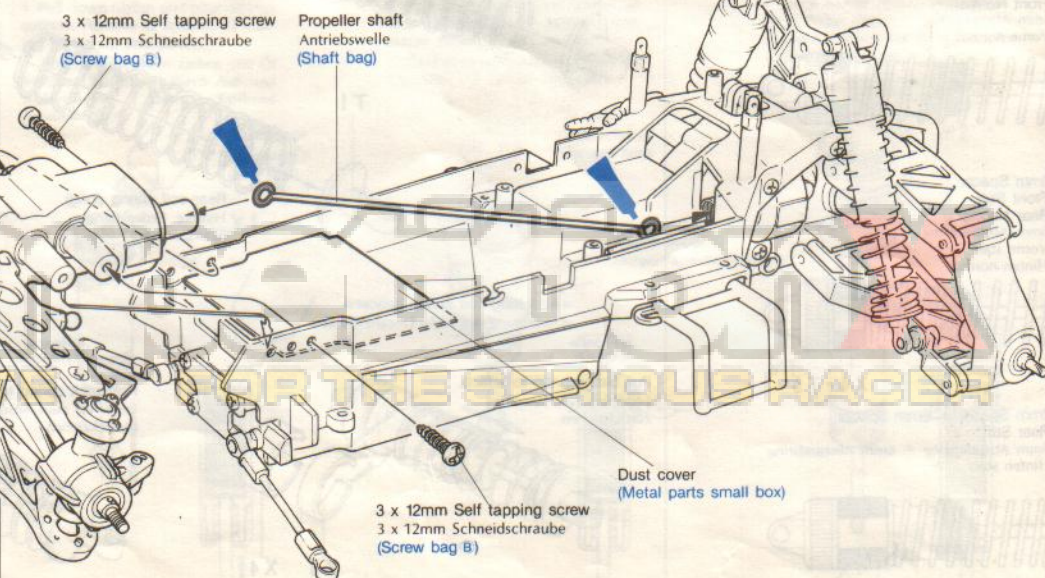
**31 ATTACHING FRONT DAMPER
EINBAU DER VORDEREN STOSSDÄMPFER**



**32 ATTACHING REAR DAMPER
EINBAU DER HINTEREN STOSSDÄMPFER**

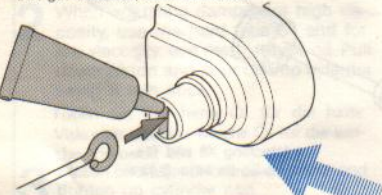


**33 ATTACHING FRONT GEAR BOX
EINBAU DES VORDEREN GETRIEBEGEHÄUSES**



**LUBRICATING PROPELLER SHAFT
FETTEN**

Make sure to apply grease, then assemble. Erst gut einfetten, dann einbauen.



Front gear box
Vorderes Getriebegehäuse

R/C GUIDE BOOK

Tamiya's newest R/C Guide Book has all of the latest information concerning the installation and operation of R/C equipment and helpful hints on the care of your R/C cars, buggies and tanks.

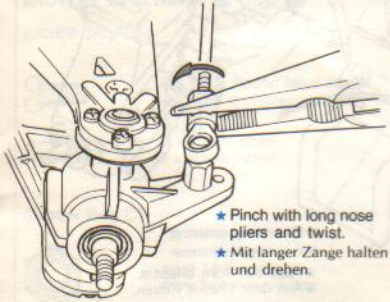
PARTS USED IN
BAUTEILE IN SCHRITT
(Screw bag A)

- 3 x 6mm Round head screw
3 x 6mm Rundkopfschraube
- 3mm Washer
3mm Beilagscheibe

(Screw bag B)

- 3 x 12mm Self tapping screw
3 x 12mm Schneidschraube

34 HOW TO REMOVE ADJUSTER
WIE MAN DIE STELLSCHRAUBE
ABNIMMT



PARTS USED IN
BAUTEILE IN SCHRITT
(Screw bag B)

- 3 x 12mm Self tapping screw
3 x 12mm Schneidschraube

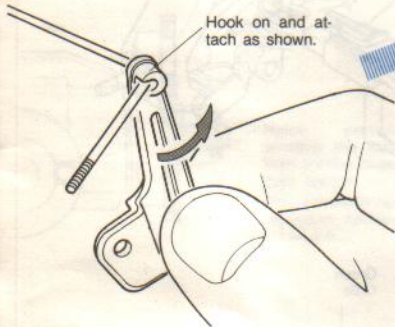
(Plastic bearing bag)

- 3.5 x 20mm Rubber tubing
3,5 x 20mm Gummirohr

(Ball connector bag) Blister pack

- 5mm Stabilizer ball
5mm Stabilisator-Kugel

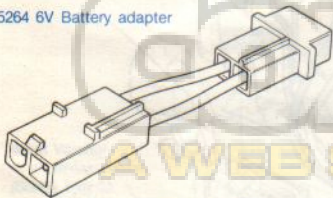
35 ATTACHING A5 AND A6
EINBAU VON A5 UND A6



6V-1200mAh Ni-Cd BATTERY

When using 6V-1200mAh battery, use 6V battery adapter (5264).

5264 6V Battery adapter



ATTACHING BATTERY ADAPTER



Speed controller connector 6V Battery adapter 6V-1200mAh Tamiya Ni-Cd battery

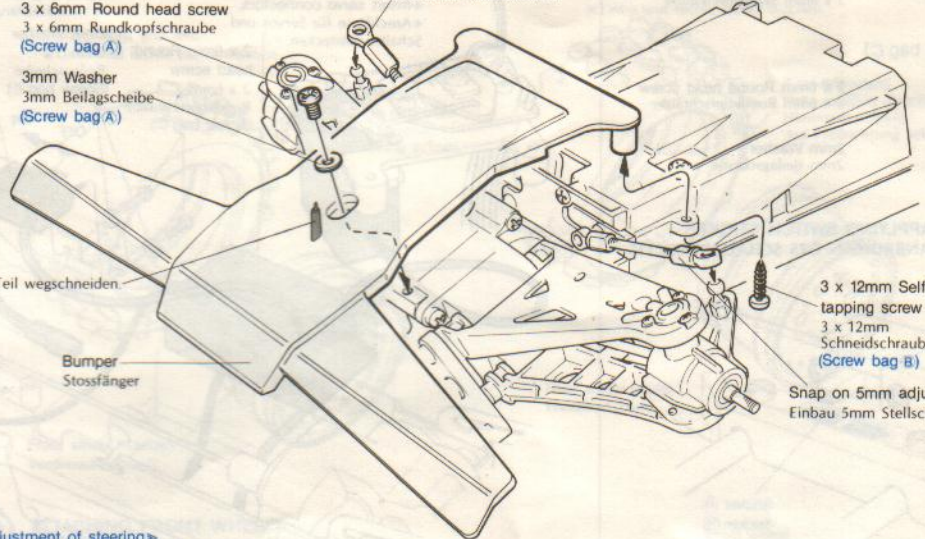
34 ATTACHING FRONT BUMPER
EINBAU DES VORDEREN STOSSFÄNGERS

- 3 x 6mm Round head screw
3 x 6mm Rundkopfschraube
(Screw bag A)
- 3mm Washer
3mm Beilagscheibe
(Screw bag A)

Cut off.
Dieses Teil wegschneiden.

Bumper
Stoßfänger

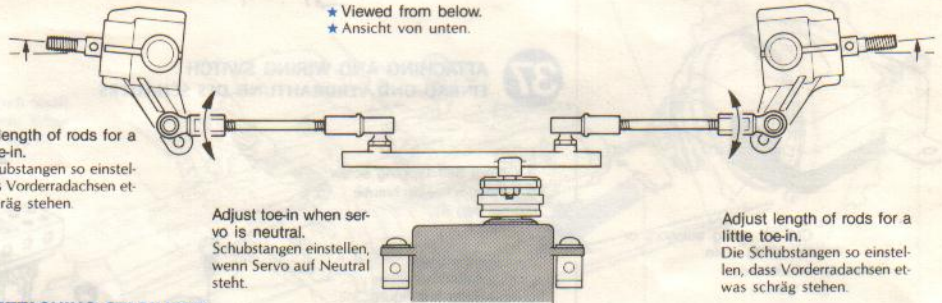
Snap on 5mm adjuster.
Einbau 5mm Stellschraube.



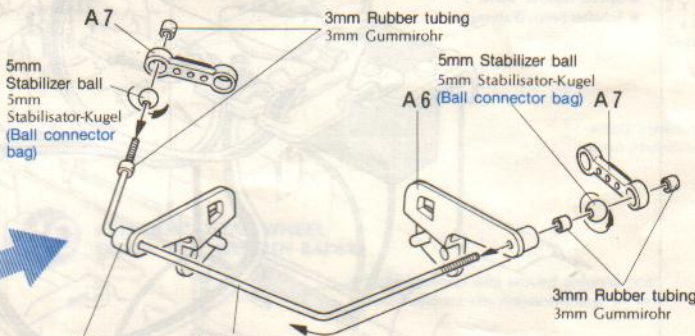
- 3 x 12mm Self tapping screw
3 x 12mm Schneidschraube
(Screw bag B)

Snap on 5mm adjuster.
Einbau 5mm Stellschraube.

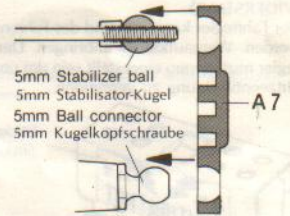
«Adjustment of steering»
«Einstellung der Schubstangen»



35 ATTACHING STABILIZER
STABILISATOR



«Attaching A7»
«Einbau A7»



* Press on.
* Fest eindrücken.

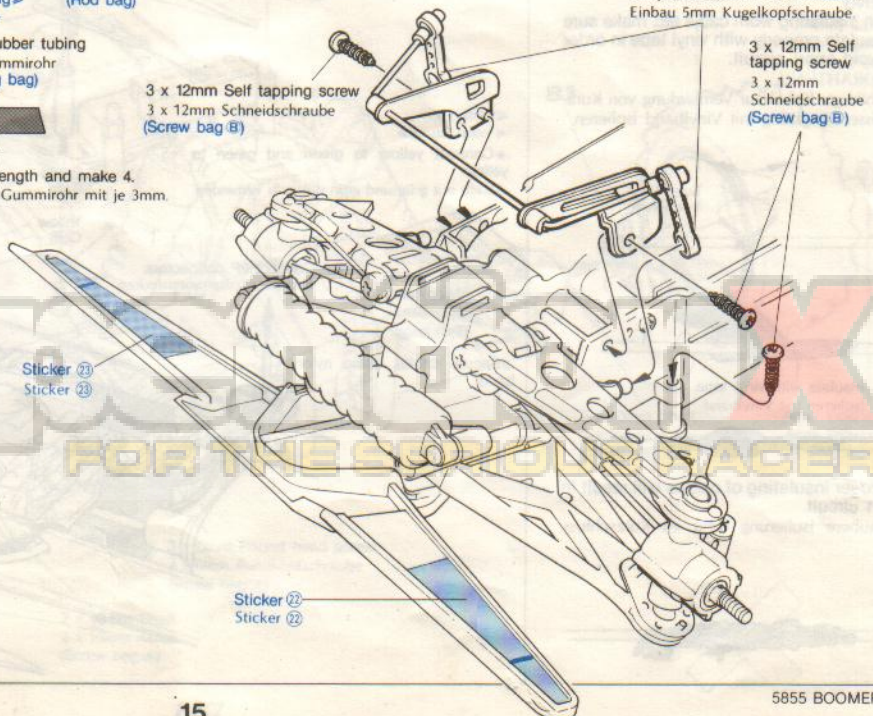
- 3.5 x 20mm Rubber tubing
3,5 x 20mm Gummirohr
(Plastic bearing bag)

Cut into 3mm length and make 4.
Mache 4 Stück Gummirohr mit je 3mm.

- 3 x 12mm Self tapping screw
3 x 12mm Schneidschraube
(Screw bag B)

Snap onto 5mm ball connector.
Einbau 5mm Kugelkopfschraube.

- 3 x 12mm Self tapping screw
3 x 12mm Schneidschraube
(Screw bag B)



PARTS USED IN 34 AND 35
BAUTEILE IN SCHRITT 34 UND 35

(Screw bag B)

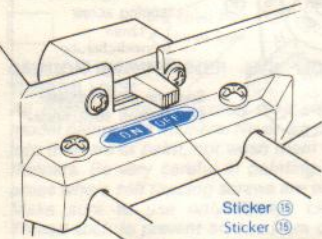
- 3 x 8mm Self tapping screw
3 x 8mm Schneidschraube

(Screw bag C)

- 2 x 6mm Round head screw
2 x 6mm Rundkopfschraube

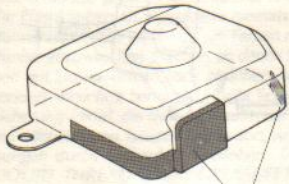
- 2mm Washer
2mm Beilagscheibe

36 APPLYING SWITCH STICKER
ANBRINGEN DES SCHALTERETIKETTS



Sticker 15
Sticker 16

37 TRIMMING SWITCH COVER
SCHALTERABDECKUNG



Cut off using scissors or modeling knife.
Abschneiden.

RESISTOR

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

WIDERSTAND

Der Fahrregler kann während des Fahrens heiss werden. Warntaufkleber anbringen. Der Fahrregler muss genau eingestellt sein um unnötige Hitzeentwicklung zu vermeiden.



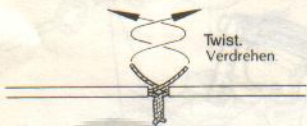
Sticker 15
Sticker 16

WIRING

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

VERDRÄHTUNG

Beschädigte Kabel zur Vermeidung von Kurzschlüssen sorgfältig mit Vinylband isolieren.



Twist.
Verdrehen.



Insulate with vinyl tape.
Isolieren mit Vinylband.

Improper insulating of cables will result in short circuit.
Unsaubere Isolierung führt zu Kurzschluss.

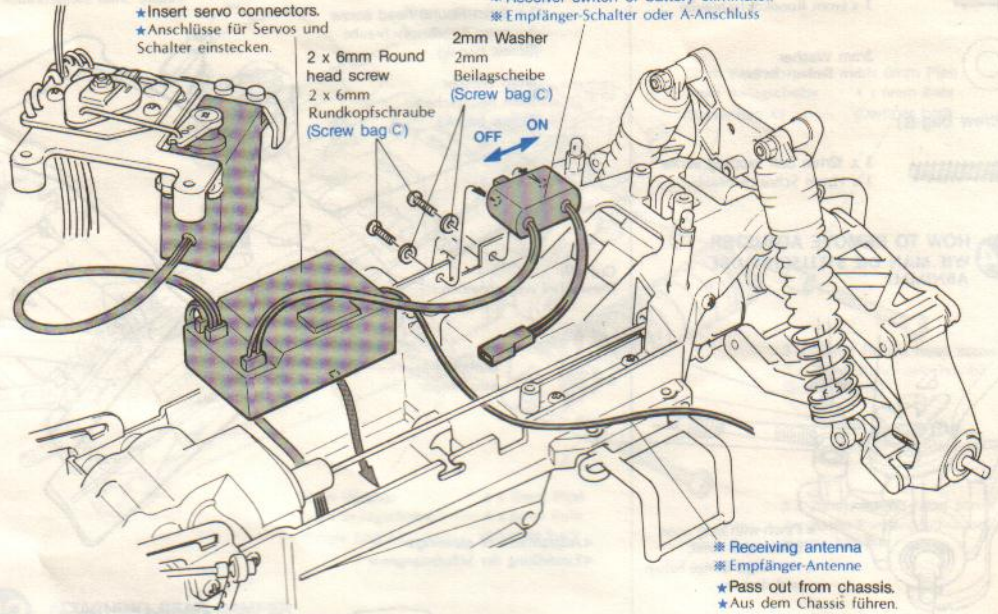


36 ATTACHING RECEIVER
EINBAU DES EMPFÄNGERS

* Receiver * Empfänger

- * Insert servo connectors.
- * Anschlüsse für Servos und Schalter einstecken.

* Receiver switch or battery eliminator.
* Empfänger-Schalter oder A-Anschluss



2 x 6mm Round head screw
2 x 6mm Rundkopfschraube (Screw bag C)

2mm Washer
2mm Beilagscheibe (Screw bag C)

OFF ON

* Receiving antenna
* Empfänger-Antenne
* Pass out from chassis.
* Aus dem Chassis führen.

37 ATTACHING AND WIRING SWITCH
EINBAU UND VERDRÄHTUNG DES SCHALTERS

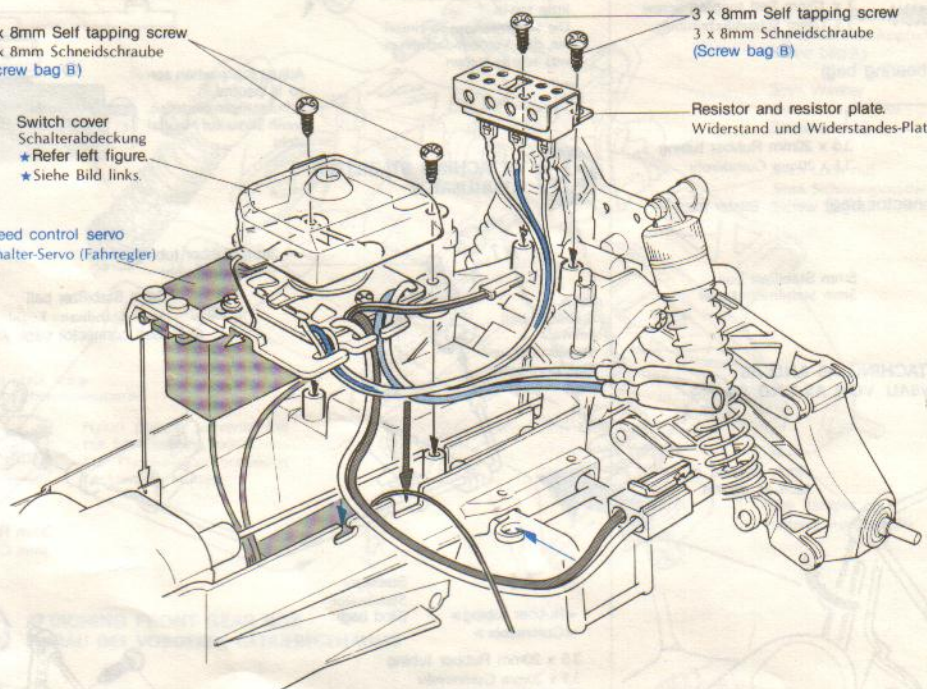
3 x 8mm Self tapping screw
3 x 8mm Schneidschraube (Screw bag B)

Switch cover
Schalterabdeckung
* Refer left figure.
* Siehe Bild links.

* Speed control servo
* Schalter-Servo (Fahrregler)

3 x 8mm Self tapping screw
3 x 8mm Schneidschraube (Screw bag B)

Resistor and resistor plate.
Widerstand und Widerstandes-Platte



<Wiring>
<Verdrahtung>

- * Connect yellow to green and green to yellow.
- * Gelb mit grün und grün mit gelb verbinden.

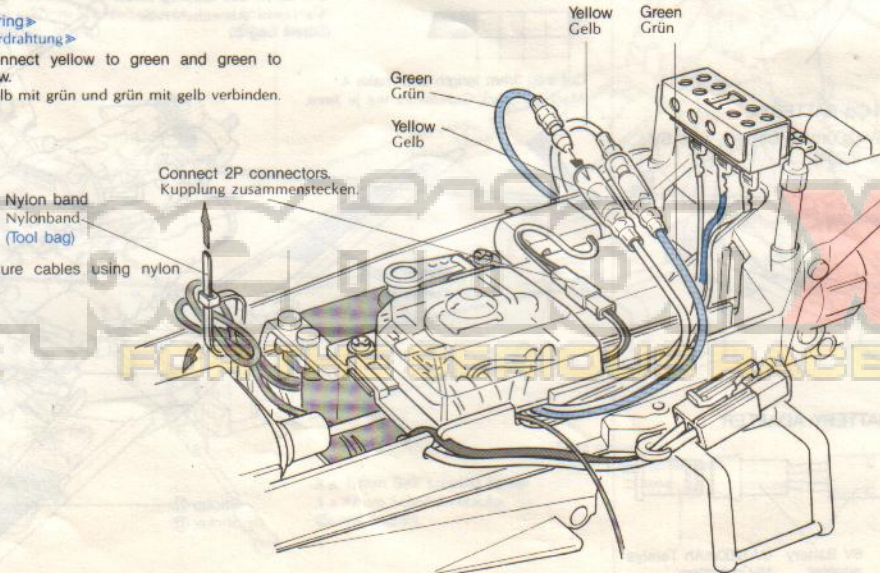
Yellow Gelb
Green Grün

Green Grün
Yellow Gelb

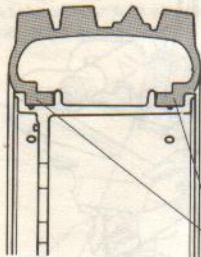
Connect 2P connectors.
Kupplung zusammenstecken.

Nylon band
Nylonband (Tool bag)

* Secure cables using nylon band.



38 ATTACHING TIRES REIFEN-MONTAGE



Fix tires to grooves of wheels. Reifen in die Felgen richtig eindrücken.

PARTS USED IN ③ AND ④ BAUTEILE IN SCHRITT ③ UND ④

(Screw bag A)

3 x 6mm Round head screw
3 x 6mm Rundkopfschraube

2 x 10mm Shaft
2 x 10mm Achse

(Screw bag C)

4mm Lock nut
4mm Sicherungsmutter

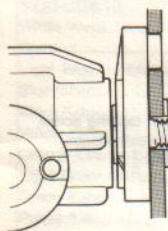
4mm Washer
4mm Beilagscheibe

Front wheel
Vorderrad

4mm Washer
4mm Beilagscheibe
(Screw bag C)

4mm Lock nut
4mm Sicherungsmutter
(Screw bag C)

4mm LOCK NUT
4mm SIHERUNGSMUTTER



Nylon portion prevents the nuts from coming loose. Fully tighten. Die Plastikeinlage verhindert Lockern der Mutter.

Rear wheel
Hinterrad

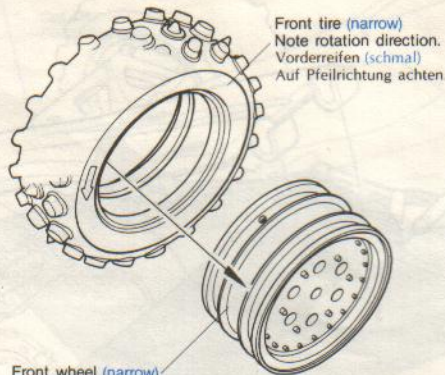
4mm Washer
4mm Beilagscheibe
(Screw bag C)

4mm Lock nut
4mm Sicherungsmutter
(Screw bag C)

38 ATTACHING TIRES REIFEN-MONTAGE

«Front wheel»
«Vorderrad»

★ Make right and left.
★ Linke und rechte Räder machen.



Front wheel (narrow)
Vorderrad (schmal)

Front tire (narrow)
Note rotation direction.
Vorderreifen (schmal)
Auf Pfeilrichtung achten

«Rear wheel»
«Hinterrad»

★ Make right and left.
★ Linke und rechte Räder machen.

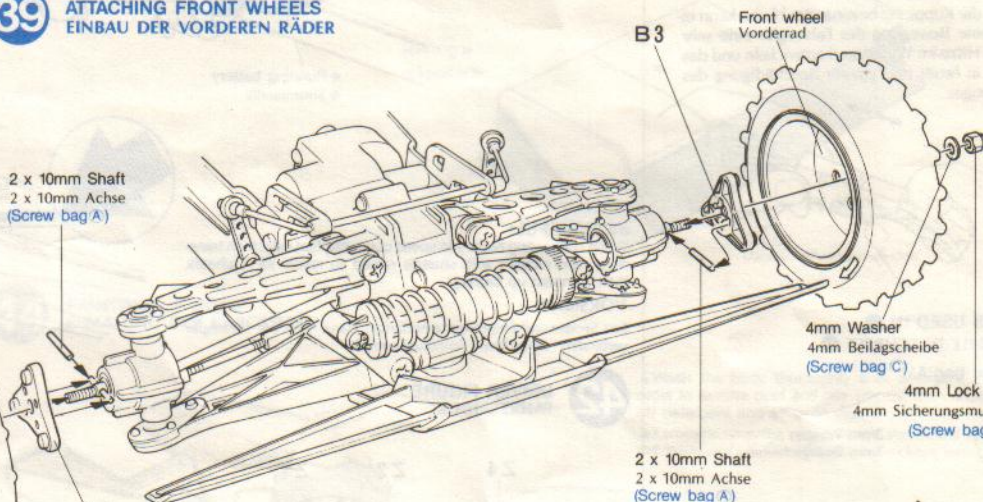


Rear wheel (wide)
Hinterrad (breit)

Rear tire (wide)
Note rotation direction.
Hinterreifen (breit)
Auf Pfeilrichtung achten

39 ATTACHING FRONT WHEELS EINBAU DER VORDEREN RÄDER

2 x 10mm Shaft
2 x 10mm Achse
(Screw bag A)



B3

B3

Front wheel
Vorderrad

4mm Washer
4mm Beilagscheibe
(Screw bag C)

4mm Lock nut
4mm Sicherungsmutter
(Screw bag C)

2 x 10mm Shaft
2 x 10mm Achse
(Screw bag A)

★ Note rotation direction of tires on wheels when attaching.
★ Auf Pfeilrichtung achten.

40 ATTACHING REAR WHEEL EINBAU DER HINTEREN RÄDER

※ Wrap antenna wire around antenna post.
※ Antennendraht um Antennenstange wickeln

Antenna post
Antennenstange

Rear wheel
Hinterrad

4mm Lock nut
4mm Sicherungsmutter
(Screw bag C)

B3

2 x 10mm Shaft
2 x 10mm Achse
(Screw bag A)

4mm Washer
4mm Beilagscheibe
(Screw bag C)

3 x 6mm Round head screw
3 x 6mm Rundkopfschraube
(Screw bag A)

B3

2 x 10mm Shaft
2 x 10mm Achse
(Screw bag A)

**BE CAREFUL!
VORSICHT!**



A RUN DOWN BATTERY CAN CAUSE CONTROL PROBLEMS!

Even when using the BEC system, a depleted battery will cause problems in control. Never completely discharge your battery during running, but stop running when the motor slows down.

DEN FAHRZEUG KANN MAN NICHT FAHREN, WENN DER AKKU LEER WIRD.

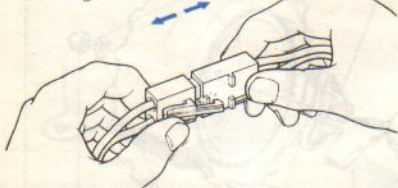
In diesem Fahrzeug hat der Empfänger und der Motor die gleiche Stromquelle. Wenn der Akku leer wird, kann der Empfänger nicht mehr richtig funktionieren und der Car gerät ausser Kontrolle.

DISCONNECT BATTERY CONNECTOR WHEN NOT USING THE CAR.

Disconnect Ni-Cd battery when car is not being used. If left connected, a slight movement of the speed controller can cause tremendous heat buildup in the resistor, causing a fire or damage to the model.

WENN MAN NICHT FÄHRT, AKKU-KUPPLUNG AUSEINANDER.

Wenn die Kupplung beieinander bleibt, kann eine kleine Bewegung des Fahrregler eine sehr grosse Hitze im Widerstand entwickeln und das endet in Feuer und grosser Beschädigung des Fahrzeuges.



PARTS USED IN 41

BAUTEILE IN SCHRITT 41

(Screw bag A)



3mm Washer
3mm Beilagscheibe

(Screw bag B)



3 x 12mm Self tapping screw
3 x 12mm Schneidschraube



3 x 8mm Self tapping screw
3 x 8mm Schneidschraube

**42 MARKING AND PAINTING OF DRIVER FIGURE
BEMALEN DER FAHRERFIGUR**

Paint driver figure with Tamiya Acrylic or Enamel paints for realism. Use only plastic paints for driver figure.

Für realistisches Aussehen die Fahrerfigur mit Tamiya-Acryl- oder Lackfarben bemalen. Nur Plastikfarben für Fahrerfigur verwenden.

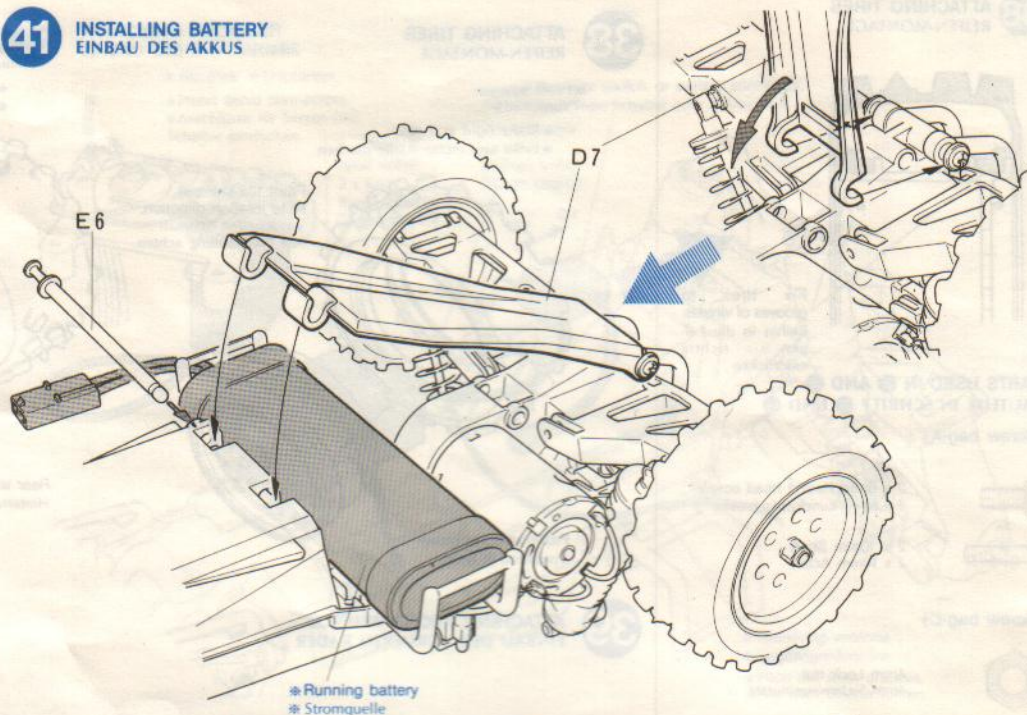


Paint driver figure as you like.
Bemalung wie man will.

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.

**41 INSTALLING BATTERY
EINBAU DES AKKUS**

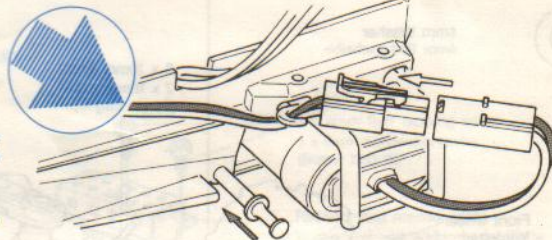


BE CAREFUL!

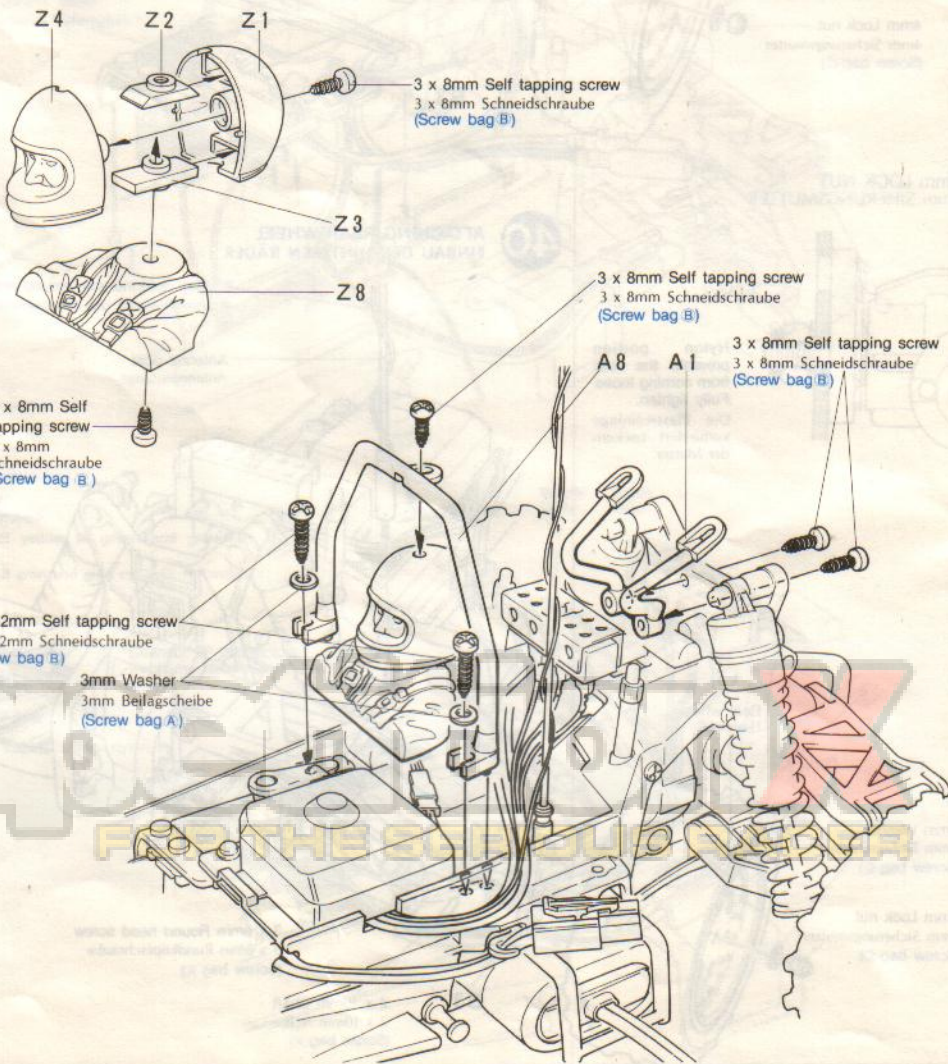
When connecting battery to speed controller, first switch on transmitter and receiver with chassis raised to rotate all 4 wheels, then connect up battery.

VORSICHT!

Erst Sender und Empfänger einschalten, dann Akku mit Fahrregler verbinden - sonst keine Fahrzeugkontrolle.

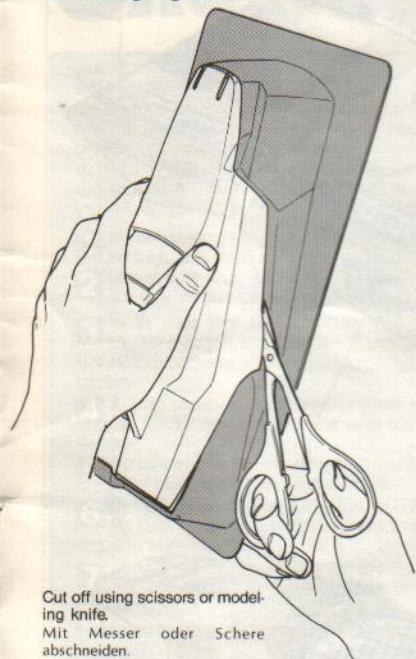


**42 DRIVER FIGURE
FAHRERFIGUR**



43 TRIMMING OF BODY
ZURICHTEN DER KAROSSERIE

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



Cut off using scissors or modeling knife.
Mit Messer oder Schere abschneiden.

44 PAINTING THE BOOMERANG
BEMALUNG DES BOOMERANG

Body design of this R/C model is a Tamiya original. Use box art and figures as a guide for painting and marking. Body and wing are of polycarbonate, therefore use paints for polycarbonate. Use your own color scheme and apply stickers of your choice. Be sure to paint driver and racing suit for a realistic off-road racing buggy.

Der Karosserie-Entwurf des R/C Modells ist ein TAMIYA-Original. Wie man den Modell bemalen kann, ersieht man aus den Karton-Bildern Karosserie und Spoiler sind aus Lexan. Zum Bemalen soll man für diese Teile Lexan-Farben nehmen. Bemalen kann man den Modell auch frei nach Schnauze und Stickers von anderen Fahrzeugen können auch angebracht werden. Halt, den Fahrer muss man natürlich auch anmalen, auch ein bunter Overall macht sich gut im Rennen.

COLORS AVAILABLE IN TAMIYA
POLYCARBONATE PAINTS
FARBÖNE IN TAMIYA-KUNSTSTOFF-FARBEN
VERFÜGBAR

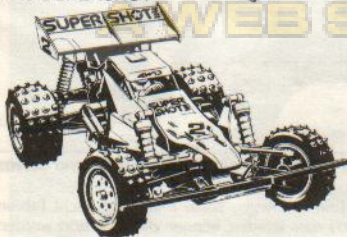
White /Weiss.....	PC-1
Red /Rot.....	PC-2
Light Blue /Hellblau.....	PC-3
Blue /Blau.....	PC-4
Black /Schwarz.....	PC-5
Yellow /Gelb.....	PC-6
Orange /Orange.....	PC-7
Light Green /Hellgrün.....	PC-8
Green /Grün.....	PC-9
Purple /Lila.....	PC-10
Pink /Pink.....	PC-11
Silver /Silber.....	PC-12

RADIO CONTROL CAR MODELS

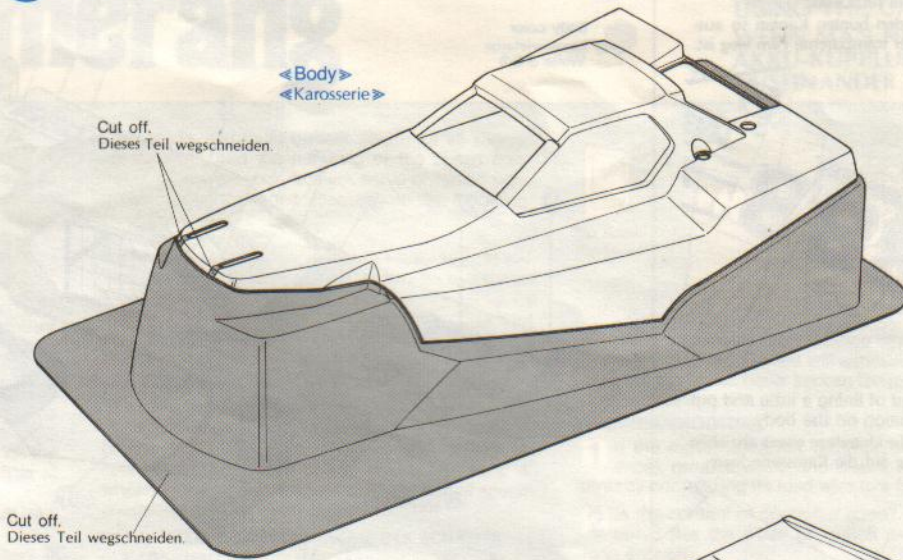
1/10 ROAD WIZARD F-1



1/10 SUPERSHOT

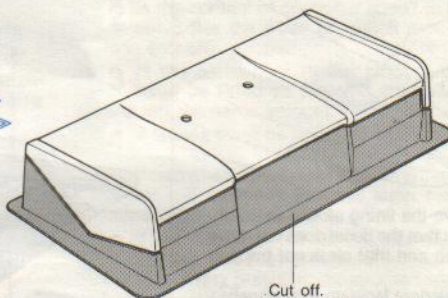


43 TRIMMING OF BODY
ZURICHTEN DER KAROSSERIE



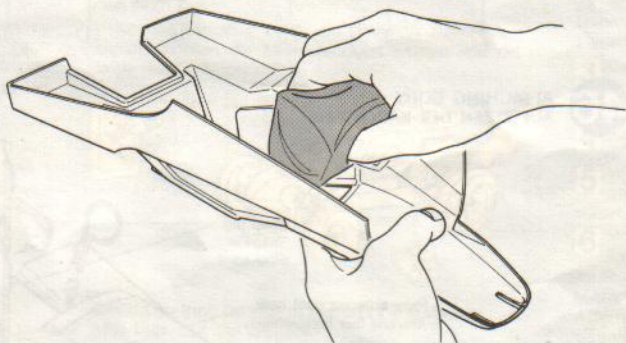
Cut off. Dieses Teil wegschneiden.

«Wing»
«Spoiler»

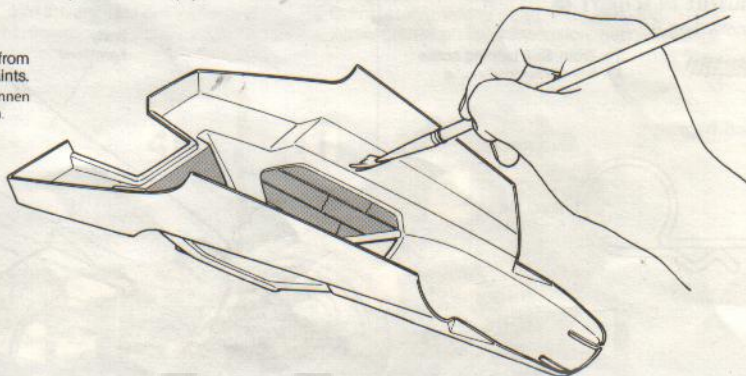


Cut off. Dieses Teil wegschneiden.

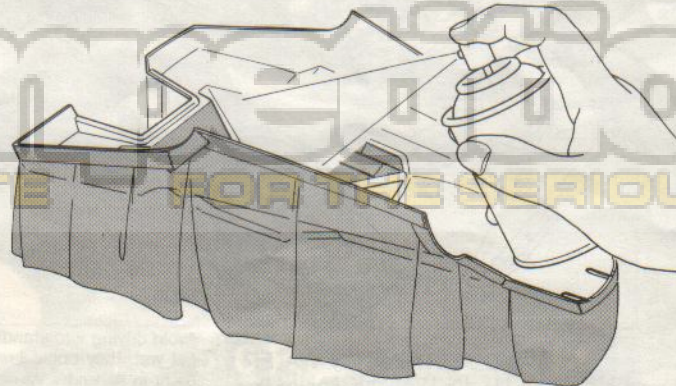
44 PAINTING OF BODY
BEMALUNG DER KAROSSERIE



★Mask window portions and paint from inside with Tamiya Polycarbonate Paints.
★Fensterpartien abdecken und von Innen mit Tamiya-Kunststoff-Farbe bemalen.



★Wash the body thoroughly with detergent in order to remove dust and oily smears, then rinse off detergent and allow to dry.
★Karosserie sorgfältig mit Spülmittel abwaschen, damit Staub und ggf. Öl entfernt sind. Trocknen lassen.

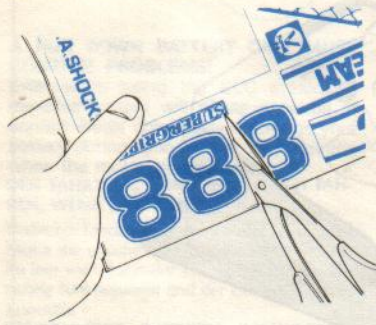


★Body can also be spray painted with polycarbonate paints. Make sure to mask outside surface when doing so.
★Karosserie kann auch mit Farben besprüht werden. Umfeld gut abdecken.

45 STICKERS STICKERS

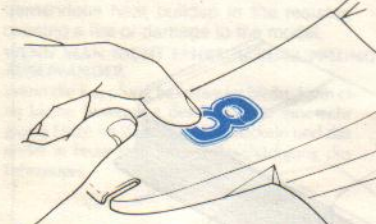
1 Cut stickers along colored edge so the transparent film is removed.

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.



3 Then, 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.

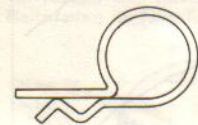
PARTS USED IN BAUTEILE IN SCHRITT

(Screw bag B)



3 x 8mm Self tapping screw
3 x 8mm Schneidschraube

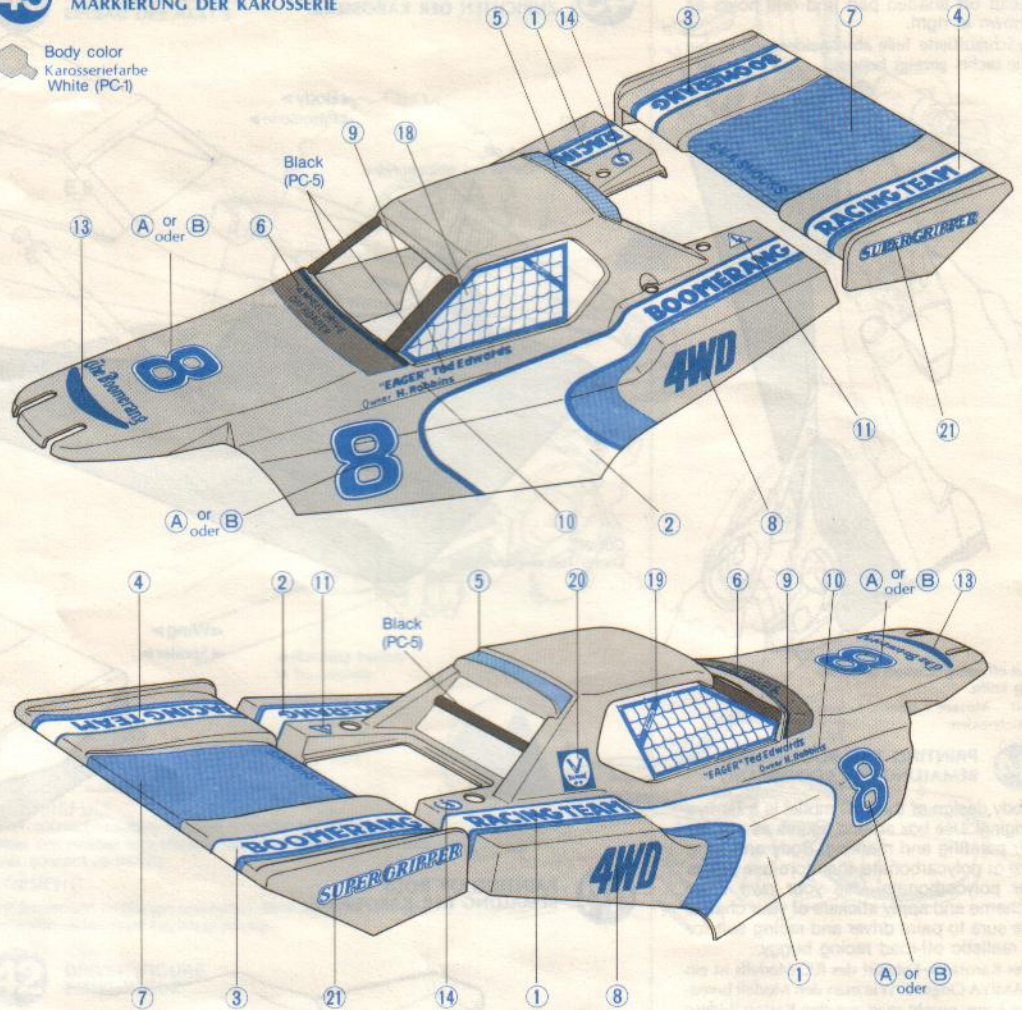
(Rod bag)



Snap pin
Snap Pin

45 MARKING OF BODY MARKIERUNG DER KAROSSERIE

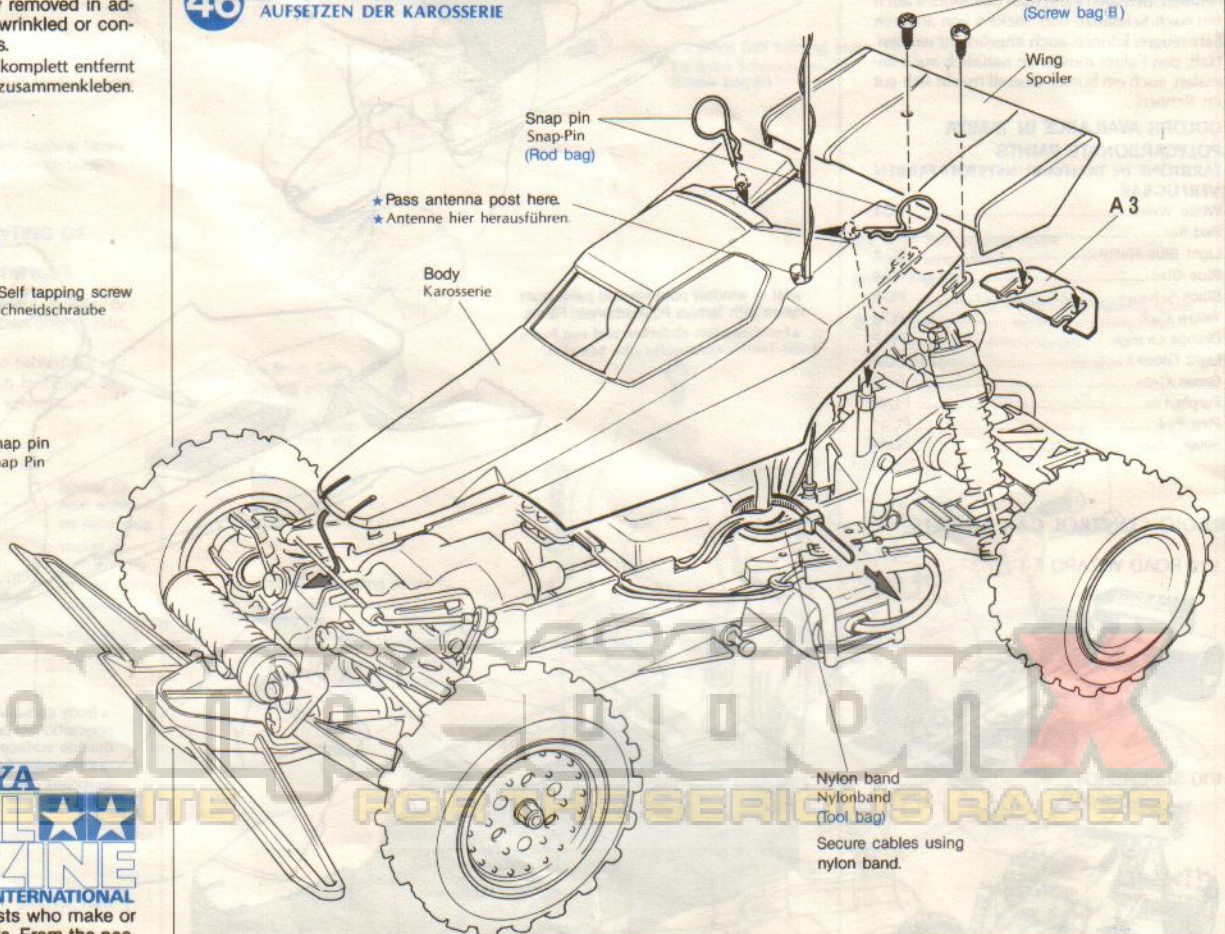
Body color
Karosseriefarbe
White (PC-1)



46 ATTACHING BODY AUFSETZEN DER KAROSSERIE

★ Pass antenna post here.
★ Antenne hier herausführen.

Body
Karosserie



3 x 8mm Self tapping screw
3 x 8mm Schneidschraube
(Screw bag B)

Wing Spoiler

A 3

Nylon band
Nylonband
(Tool bag)
Secure cables using
nylon band.

TAMIYA
MODEL★
MAGAZINE
INTERNATIONAL

A magazine for enthusiasts who make or modify models of all kinds. From the neophyte to the expert, articles of interest about modeling and the full sized vehicle. Coverage of all plastic kit maker's products.

AVOID RUNNING IN WATER
NICHT IN WASSER FAHREN

Avoid driving into standing water and heavy rain. If the receiver and servos get wet, they could breakdown.

Nicht in stehendes Wasser fahren und bei Regen sollte man auch nicht fahren. Wenn der Empfänger und die Servo's nass werden, können diese zerstört werden.

5855 BOOMERANG

The Boomerang

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.

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 are new by means of meter or lamp.
- 3 Make sure that Ni-Cd battery has been sufficiently charged. If battery is not charged, no control occurs because receiver and motor use the same battery.
- 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 Did you apply switch lubricant to controller? Be sure to apply switch lubricant to reduce arcing and burning.
- 7 Double check the wiring for breaks and short circuits. Secure with vinyl tape.
- 8 Be sure to apply molybdenum grease on bearings, moving portions of suspension, etc.

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 Sender müssen voll sein.
- 3 Nur volle Akku's bringen volle Leistung evtl. nachladen. Wenn Akku schwach ist, besteht keine Kontrolle, da Empfänger und Motor die gleiche Stromquelle haben.
- 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 Wurde der Fahrregler mit einem Schalter-Schmiermittel versehen? Ohne Schmiermittel kann der Fahrregler das Brennen anfangen. Daher auf jeden Fall - Schalter-Schmiermittel verwenden.
- 7 Kabel gut isolieren um Kurzschluss zu vermeiden.
- 8 Auf Lager, bewegliche Teile der Aufhängung, etc. Moly-Fett anbringen.

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.

BITTE BEACHTEN!

Ein ferngelenktes Automit Elektro-Motor braucht viel Strom und einen Motor mit grosser Leistung Bis zu 200 Watt! Alle Verdrahtungen, Einstellungen und der Geschwindigkeitsregler müssen vorsichtig gehandhabt oder sicher eingebaut sein, sonst können Empfänger, die Servo's oder der Fahrregler beschädigt werden. Bitte folgendes beachten!

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. Make sure to use a stand to keep 4 wheels in the air and to check stop position of speed controller, then connect battery.

DAS FAHRZEUG FÄHRT, OBWOHL DER SCHALTER AUF AUS-STEHT

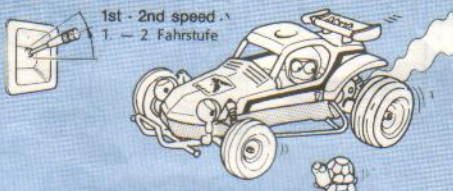
Wenn der Akku angeschlossen ist, muss der Fahrregler in der Stop Position sein, klar - sonst - haut das Fahrzeug ab.

BURNT OUT RESISTOR DURCHGESCHMORTER WIDERSTAND



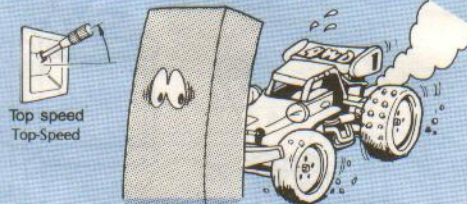
If your car stops due to some foreign object obstructing the wheels, the resistor of the speed controller can burn out.

Wenn das Fahrzeug durch ein Hindernis zum Stehen kommt, können die Räder blockiert werden und der Widerstand schmort durch.



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

Zu langes Fahren im 1. oder 2. Gang lässt den Widerstand heiss werden und durchbrennen.



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.

TROUBLESHOOTING

- 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 contact of controller good? Is it burnt or dirty? Are the wires of switch arm and plate long enough?
- 3 Is the servo horn in the proper position? It must be fitted so that the model turns right and left the same amount.
- 4 Antenna must be adjusted correctly.
- 5 When shaft or wheels become entangled, motor will overheat. Remove such hindrances immediately.
- 6 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

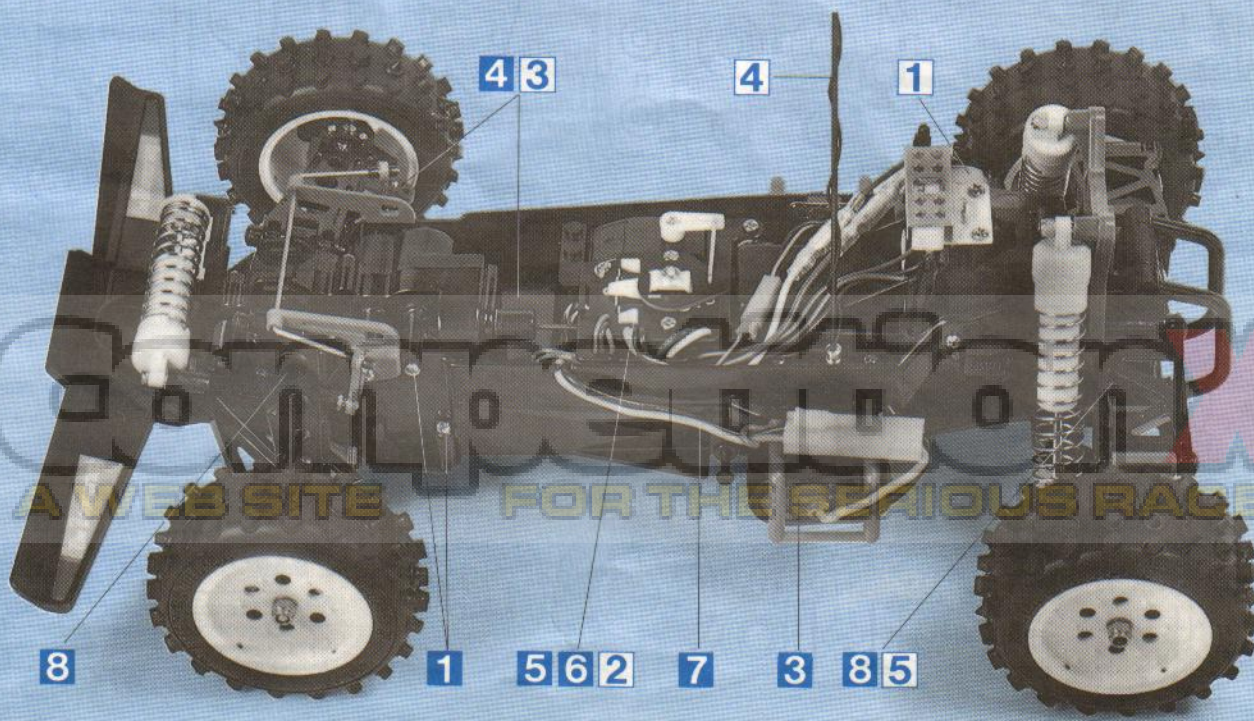
Wenn Fahrzeug nicht richtig fährt, versuche folgendes:

- 1 Wenn Motor nicht läuft, evtl. direkt an Batterie zum Prüfen anschliessen.
- 2 Sind die Kontakte des Fahrregler in Ordnung? Oder ist der Fahrregler staubig, dreckig oder ausgebrannt? Haben die Drähte am Schalter-Arm und an der Schalter-Platte genügende Länge?
- 3 Das Servohorn überprüfen. Es muss so eingebaut sein, dass links und rechts gleichmässige Drehung erfolgt.
- 4 Antenne richtig setzen.
- 5 Wenn Gras oder Steinchen die Antriebsachsen blockieren, wird der Motor überhitzt. Blockierung sofort entfernen.
- 6 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.
- ★ Apply grease on the suspension, gears, bearings, etc.



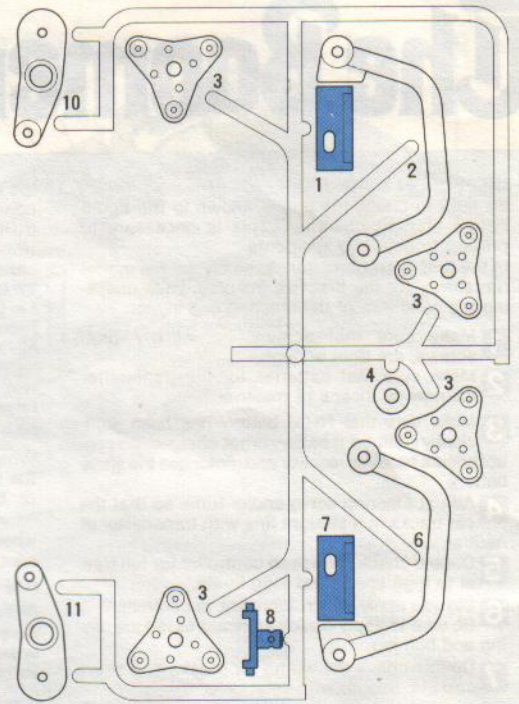
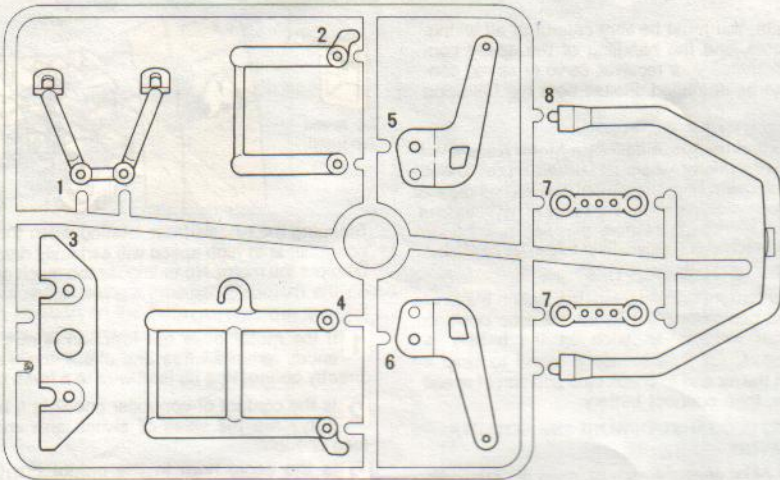
PARTS

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

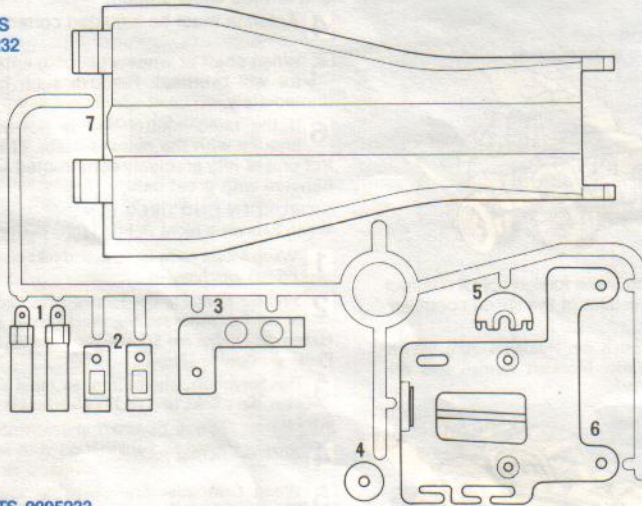
B PARTS

B parts & bumper
9005195

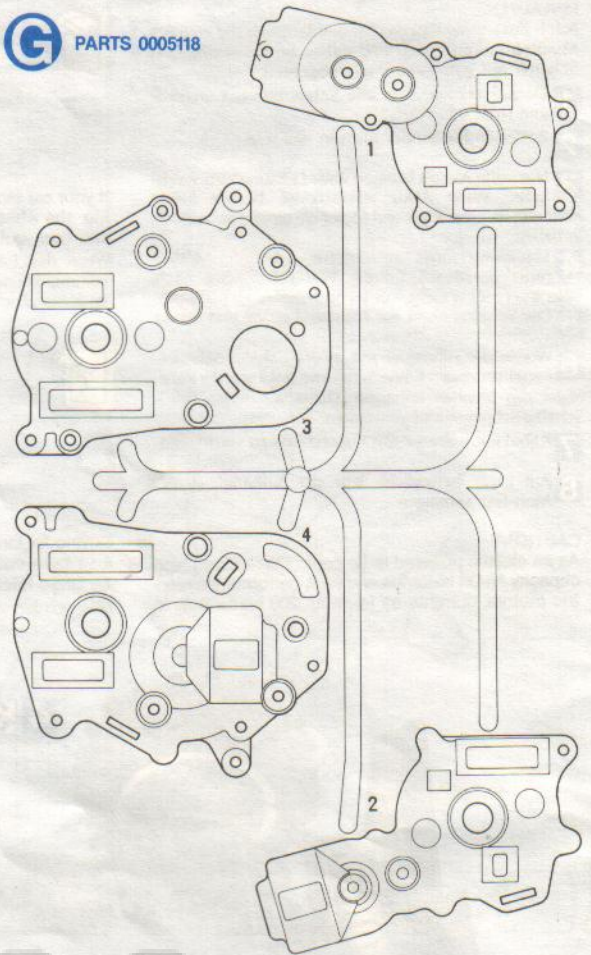
A PARTS 0005231



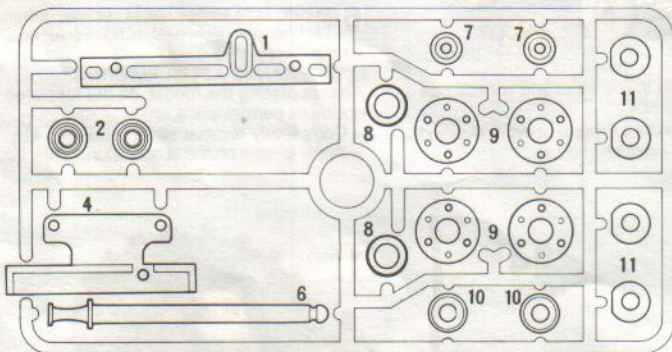
D PARTS 0005232



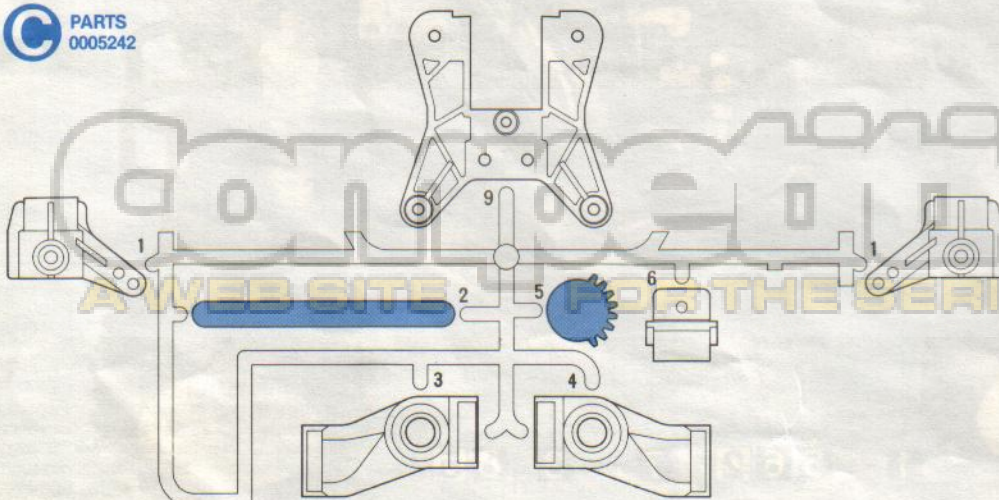
G PARTS 0005118



E PARTS 0005233



C PARTS 0005242



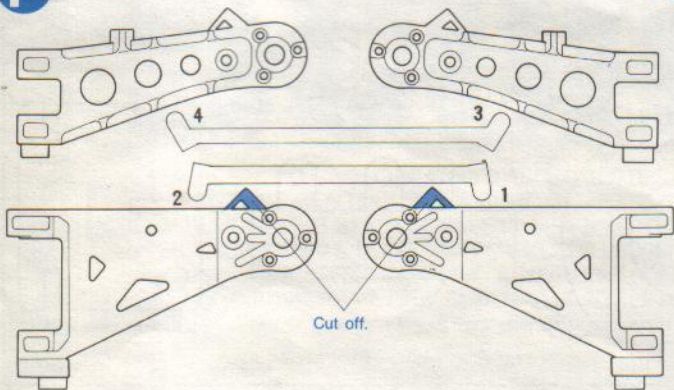
Not used.
Nicht verwenden.

Body, wing, switch cover & dust cover	9805014
(Dust cover included in metal parts small box.)	
Front & rear wheels	9335009
Front tire	6205010
Rear tire	6215010
Sticker	9495007
Antenna post	5365002
English/German instructions	1065081
English package	1015034

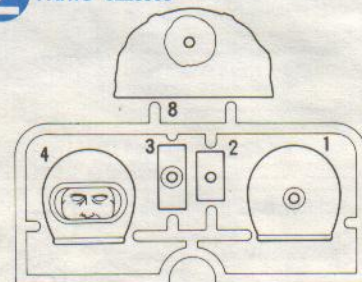
PARTS

BUMPER B parts & bumper 9005195

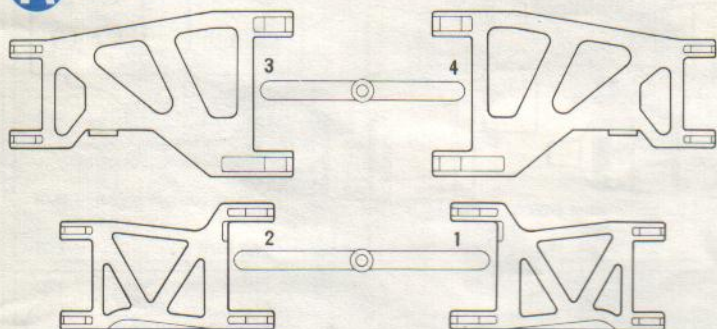
F PARTS 0005119



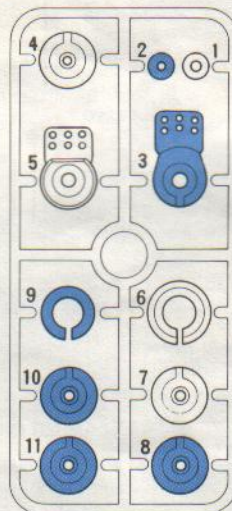
Z PARTS 0225033



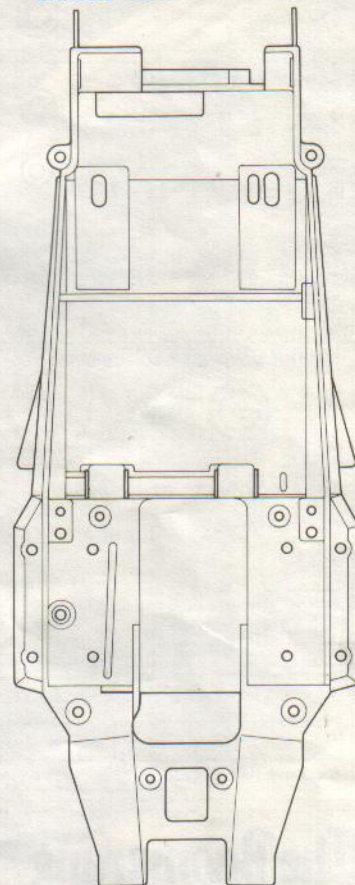
R PARTS 0115046



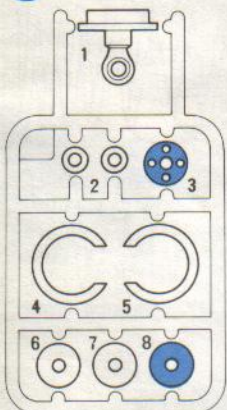
S PARTS 0115001



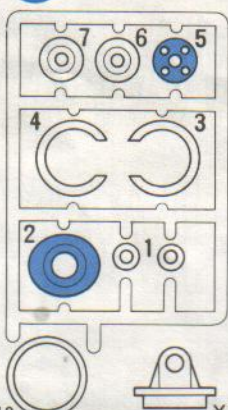
CHASSIS 0335071



T PARTS 0225019

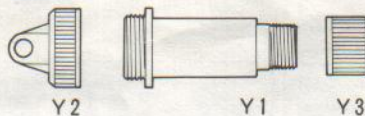


X PARTS 0225032

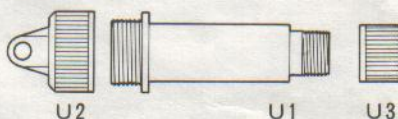


Not used.
Nicht verwenden.

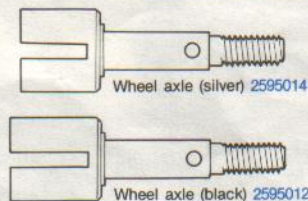
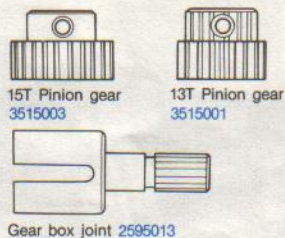
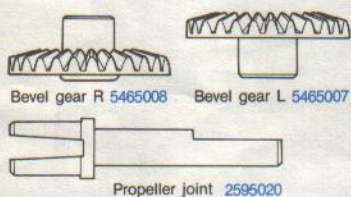
Y PARTS 0225017



U PARTS 0225020

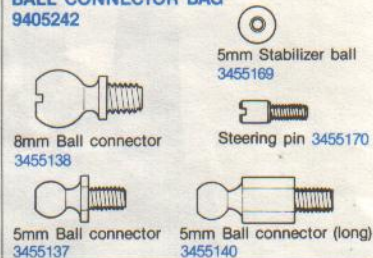


BLISTER PACK 9755095

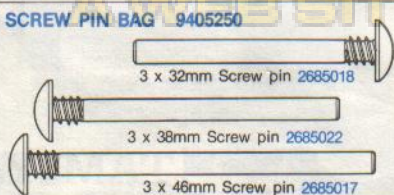
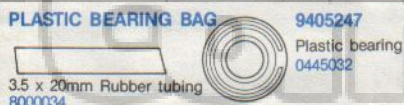


Speed controller 4505024
RS-540S Motor 7435018

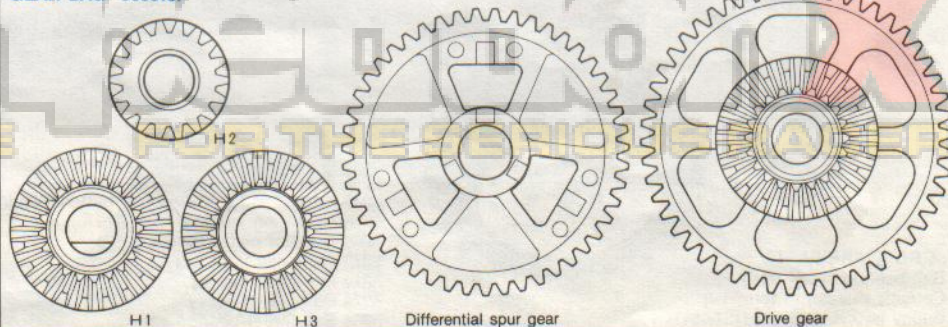
BALL CONNECTOR BAG 9405242



MATAL PARTS SMALL BOX 9725089



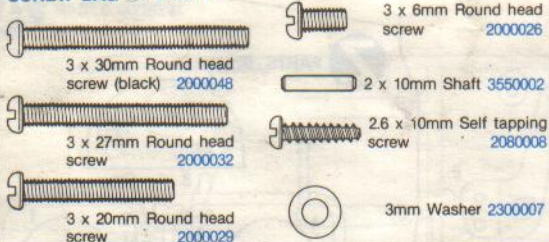
GEAR BAG 9005167



PARTS

Continued from page 23.

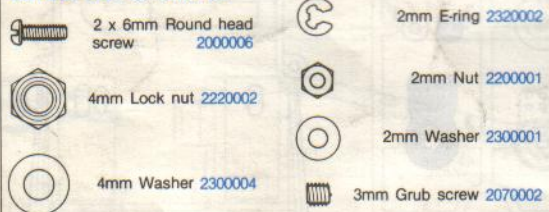
SCREW BAG A 9465147



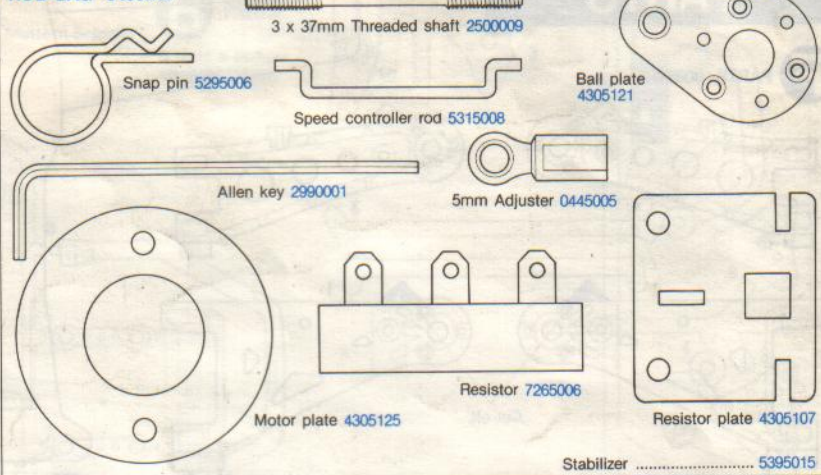
SCREW BAG B 9465148



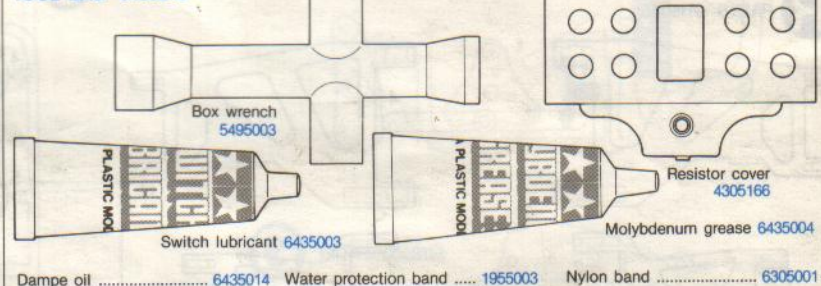
SCREW BAG C 9465149



ROD BAG 9405246



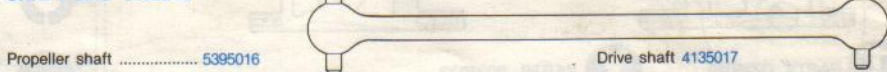
TOOL BAG 9405245



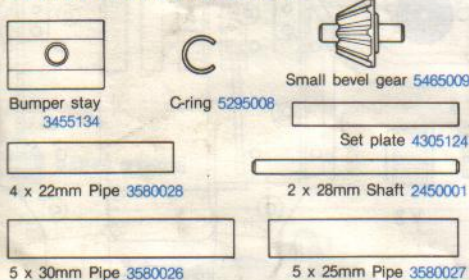
THRUST WASHER BAG 9405248



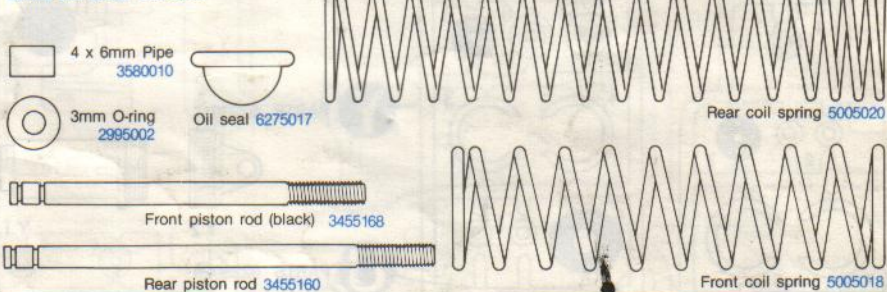
SHAFT BAG 9405249



GEAR BOX PARTS BAG 9405243



DAMPER BAG 9405244



The Boomerang



TAMIYA RC SPARE PARTS

- 5073 Ball bearing set (4 pcs.)
- 5212 Ceramic resistor (3 terminal)
- 5238 Buggy pinion gear set (13T, 14T)
- 5239 Buggy pinion gear set (15T, 16T)

- 5241 Hotshot ball bearing set
- 5242 850 Ball bearing set
- 5245 Snap connector set
- 5249-5252, 5261, 5262 Receiver battery eliminator
- 5264 6V battery adapter
- 5266 Hotshot plated wheel
- 5270 Pin spike front tire
- 5271 Pin spike rear tire
- 5274 Damper oil set
- 5284 Ball thrust bearing set
- 5285 Boomerang body parts set

