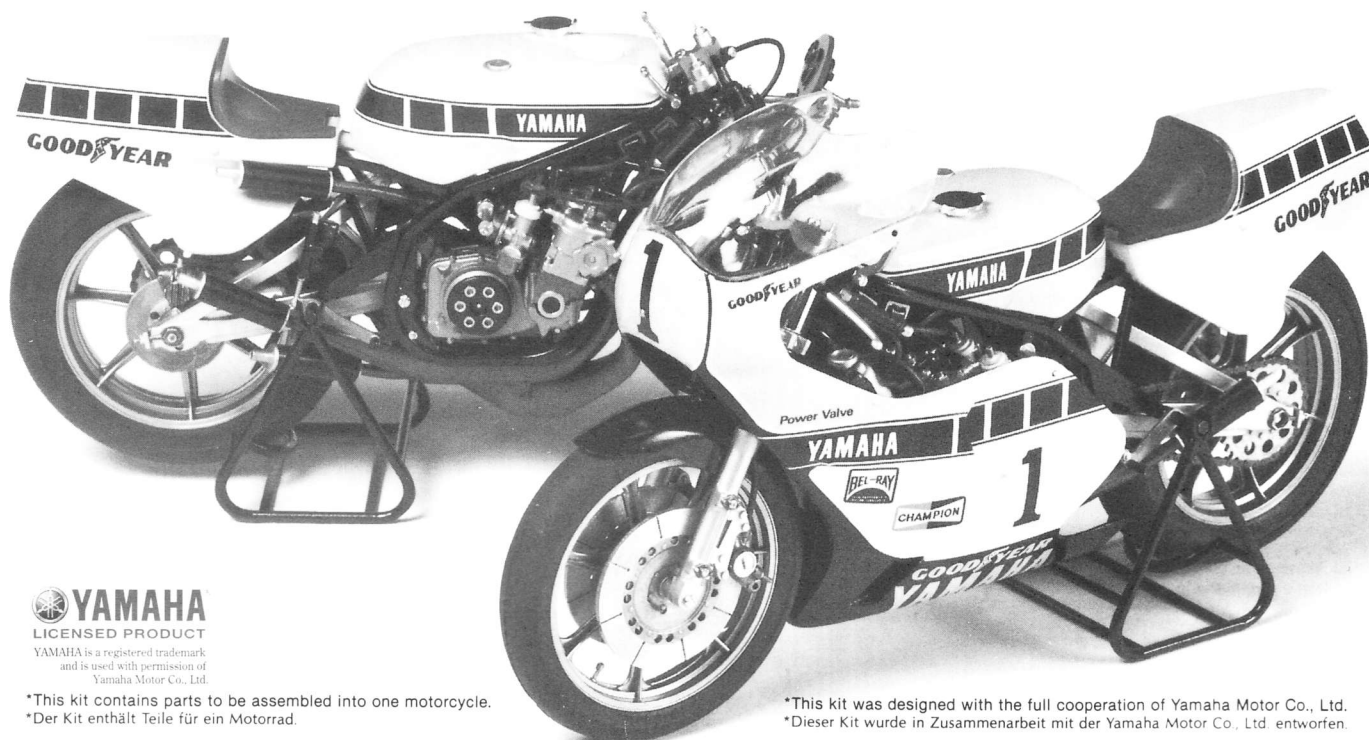


# YAMAHA YZR500

## GRAND PRIX RACER



**YAMAHA**  
LICENSED PRODUCT  
YAMAHA is a registered trademark  
and is used with permission of  
Yamaha Motor Co., Ltd.

\*This kit contains parts to be assembled into one motorcycle.  
\*Der Kit enthält Teile für ein Motorrad.

\*This kit was designed with the full cooperation of Yamaha Motor Co., Ltd.  
\*Dieser Kit wurde in Zusammenarbeit mit der Yamaha Motor Co., Ltd. entworfen.

As is well known, racing has contributed greatly to the technical advancement of cars and motorcycles, and it is also a fact that most of the manufacturers, worldwide, have more or less experienced racing to some degree. Some manufacturers have capitalized on the racing end to further develop their products and enhance their prestige. The motorcycle industry in Japan has made rapid growth since world war II and now holds the number one position in the world, and it is due primarily to their participation in racing that developed and expanded the industry in Japan. In the early 1960's the four major Japanese manufacturers entered international racing and shortly thereafter, found themselves in competition with each other, and in the case of Yamaha, it would be impossible to speak about their growth in the field without mentioning their racing activities.

Yamaha ventured into the motorcycle business in 1955, and upon their release of the first YA-1 to the market, challenged the Mount Fuji climbing race and the Asama Heights races, both regarded as the toughest in Japan. Yamaha won both races, and established themselves as a name motorcycle manufacturer world wide. These initial victories forced them, so to speak, to strive for further acclaim in the racing field, and since that time Yamaha has participated in racing in Japan as well as internationally. In 1961 Yamaha challenged all comers in world competition but in 1969, due to regulation changes, were forced to withdraw from the races. During this period they supported private teams, supplying them with racing bikes, and in 1973 rejoined world competition with their own Yamaha

Works Team, and started pursuit of the 500cc class victory. At this same time, Suzuki also re-entered world competition and a keen rivalry has continued between these two giants. Yamaha won the manufacturer's trophy for the first time, and in 1975 won both the manufacturer's and rider's trophies. In 1976 and 1977 the Grand Prix trophies were won by Suzuki with Barry Sheene riding. Yamaha obtained Kenny Roberts from America to ride for them in the hopes of besting Suzuki, and he won 1st place for Yamaha in 1978-79 and 80, and they have retained the rider's trophy for three years running. It was the YZR500 that brought Kenny Roberts the 3rd victory in 1980.

The Yamaha YZR500 is powered by a four cylinder, two stroke water-cooled engine of 498cc, using a piston ported induction system and a variable geometry exhaust. Its six speed gear box has four possible gear ratios for 1st and 2nd and three ratios for 3rd and 4th gear. The engine is mounted in a twin loop, square section aluminium alloy tube frame that is arc welded. It has a triangulated aluminium box section swing arm with needle bearings. Rear suspension is with a single Yamaha unit coil spring plus 20kg of nitrogen pressure, oil damped and adjustable for both compression and rebound. Front suspension is via oil damped coil sprung Kayaba forks and braking is accomplished with twin discs at front and one at the rear, developed by Yamaha. Further accolades will be forthcoming to Yamaha in future races and the innovations seen on the YZR in 1980 will be continually improved upon by this forward thinking company in the years ahead.

Wie bekannt, hat der Rennsport grossen, technischen Einfluss auf die Herstellung von Autos und Motorrädern. Es ist eine Tatsache, dass die meisten Hersteller auch eine gewisse Erfahrung im Rennsport zeigen. Die Motorradindustrie in Japan stige nach 1945 ganz enorm an und kann heute den ersten Platz in der Welt belegen. Anfangs der 60er Jahre stiegen die 4 grossen Hersteller Japans in den Rennsport ein und standen bald im harten Wettkampf zueinander. Yamaha konnte sein Wachsen ohne Erfolge im Rennsport nicht erreichen.

Yamaha kam ins Motorradgeschäft 1955 und nach Vorstellung seiner YA-1, konnte er schon das Mount Fuji und das Asama Bergrennen gewinnen. Es waren die härtesten Rennen überhaupt und dieser Erfolg machte Yamaha auf der ganzen Welt bekannt. 1969 wurden die Regeln geändert und Yamaha zog sich aus dem Rennsport zurück, unterstützte aber weiterhin Privatteams und blieb an jedem Rennen interessiert. 1973 stieg Yamaha wieder in das Rennen ein, das Ziel war, der Sieg der 500er Klasse.

Zur gleichen Zeit kam auch Suzuki und beide Hersteller liegen seither im harten Kampf. Die erste Meisterschaft gewann Yamaha, 1975 schon die Marken und Fahrermeisterschaft. 1976 und 1977 kin der Grand Prix an Suzuki, mit dem Fahrer Barry Sheene. Yamaha konnte den Amerikaner Kenny Roberts verpflichten und 1978 bis 1980 auch die ersten Plätze belegen. Es war die Yamaha YZR500 die Kenny Roberts den 3. Sieg 1980 brachte.

Die Yamaha YZR500 hat 4 Zylinder, einen Zwei-Takt Motor, wassergekühlt, 498cc und zwei Scheibenbremsen Vorne und eine Hinten. Dass die YZR 1980 auch weiterhin verbessert wird, dürfte Allen klar sein, denn gerade Yamaha denkt auch im Rennsport bereits an die Zukunft.

**READ BEFORE ASSEMBLY.**

**ERST LESEN — DANN BAUEN.**

- ★ Study the instructions and photographs before commencing assembly.
- ★ You will need a sharp knife, a screwdriver, a file and a pair of pliers.
- ★ Do not break parts away from sprue, but cut off carefully with a pair of pliers.
- ★ Use cement sparingly. Use only enough to make a good bond.
- ★ Apply cement to both parts to be joined.

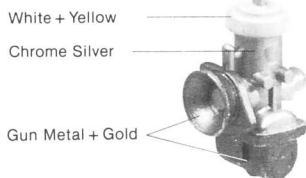
This mark denotes paint colour. Page 8 has detailed painting instructions; however, some parts should be painted prior to the model's completion, and these are called out during assembly.

Vor Beginn die Bauanleitung studieren und den Nummern nach die Elemente zusammenbauen.

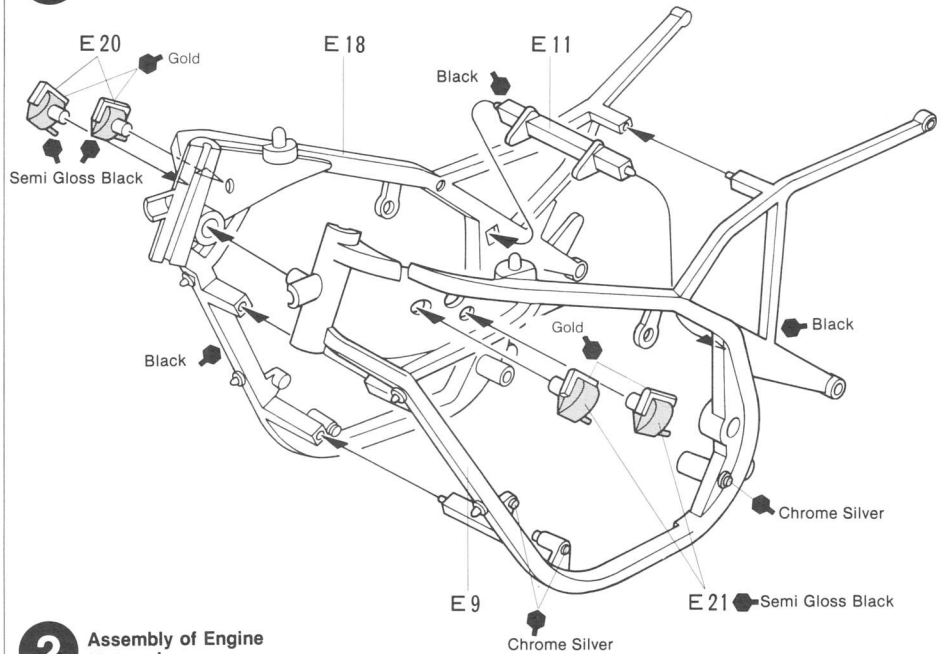
Bauteile nicht vom Spritzling abbrechen, vorsichtig abschneiden oder abwickeln. Teil vor Kleben zusammenhalten, auf genauen Sitz achten. Nicht zuviel Klebstoff verwenden. Kleine Teile hält man mit Pinzette fest. Abziehbilder vorsichtig von der Unterlage im Wasser abschieben, auf richtigen Sitz achten und gut trocknen lassen.

Zeichen für Bemalung.

**2** <<Carburetor>>  
<<Vergaser>>

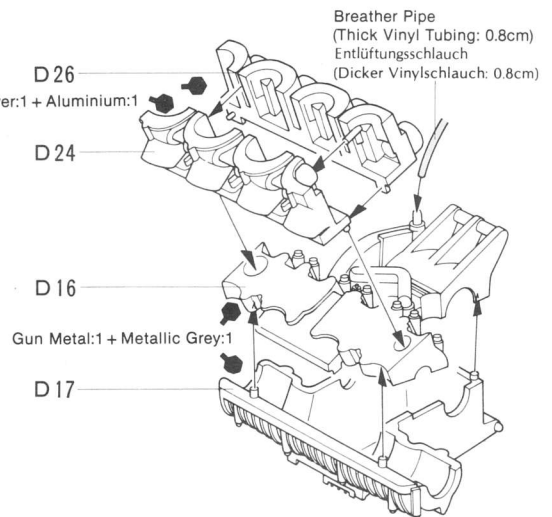
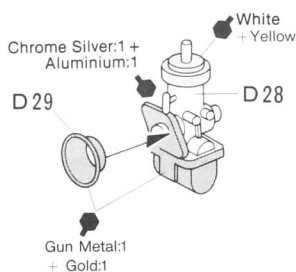


**1** Frame Assembly  
Rahmenbau

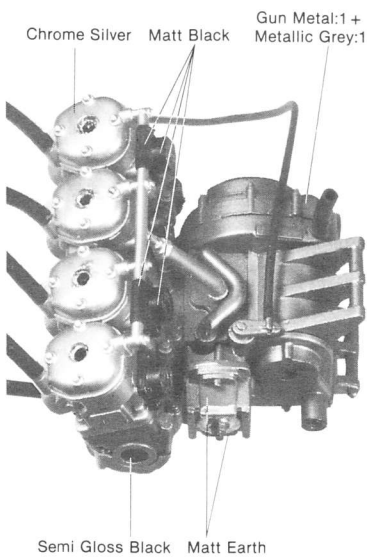


**2** Assembly of Engine  
Motorenbau

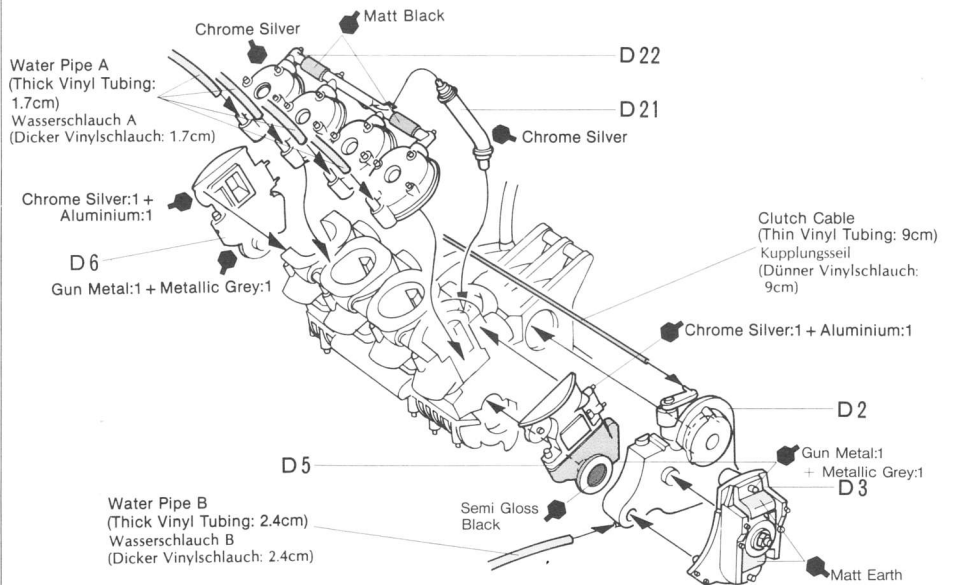
<<Carburetor>> Make 4 sets.  
<<Vergaser>> 4 Satz machen.



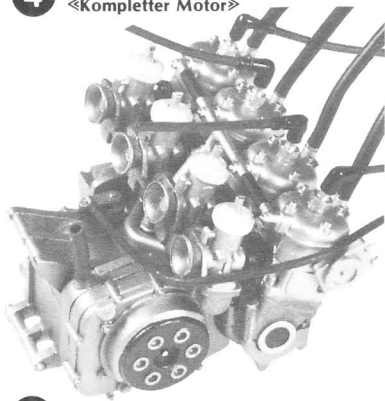
**3** <<Engine>>  
<<Motor>>



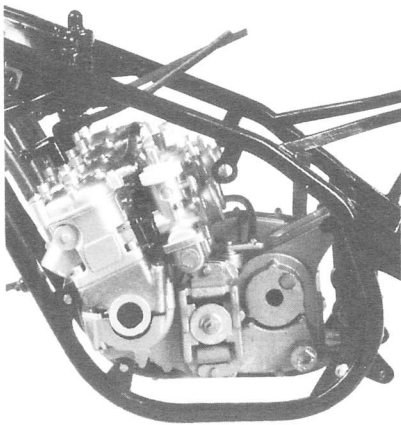
**3** Attaching Cylinder Head  
Zylinder Montage



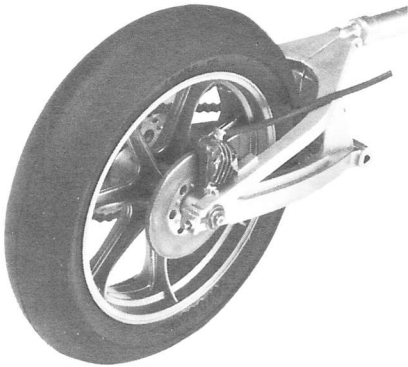
**4** «Assembled Engine»  
«Kompletter Motor»



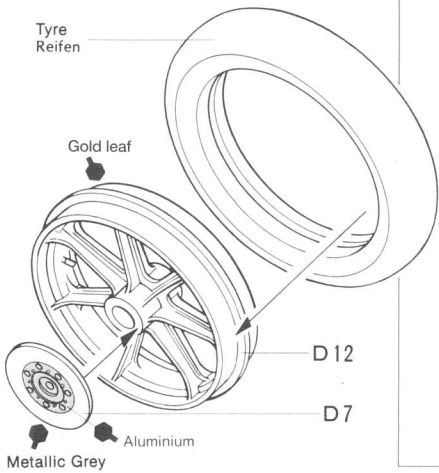
**5** «Mounted Engine»  
«Eingebauter Motor»



**6** «Assembled Rear Swing Arm»  
«Komplette Radgabel»

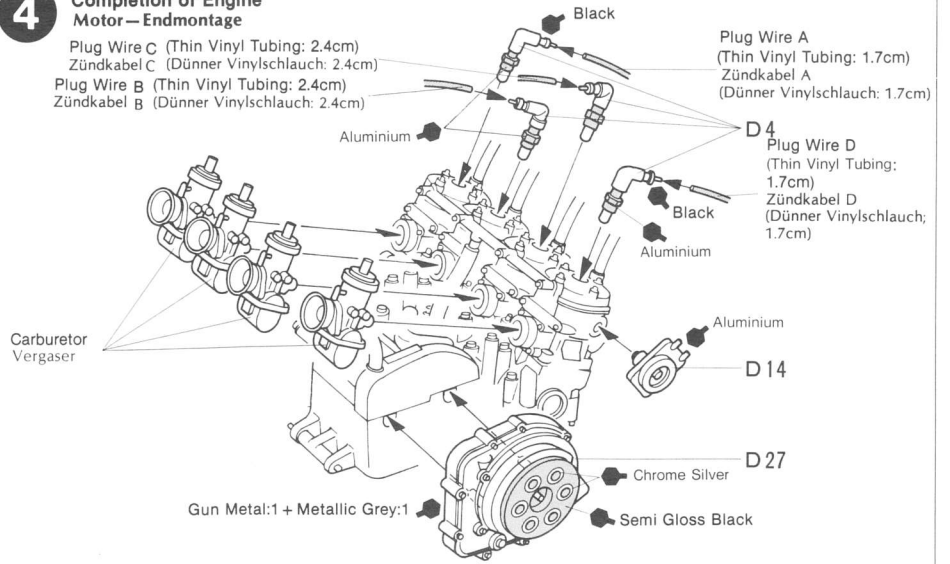


«Assembly of Rear Wheel»  
«Hinterrad Montage»

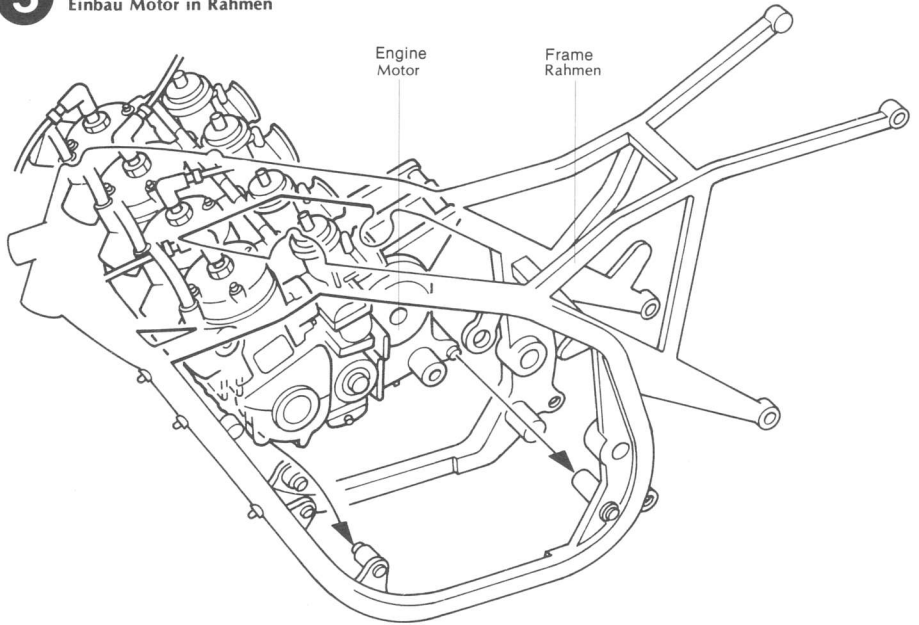


**4** Completion of Engine  
Motor—Endmontage

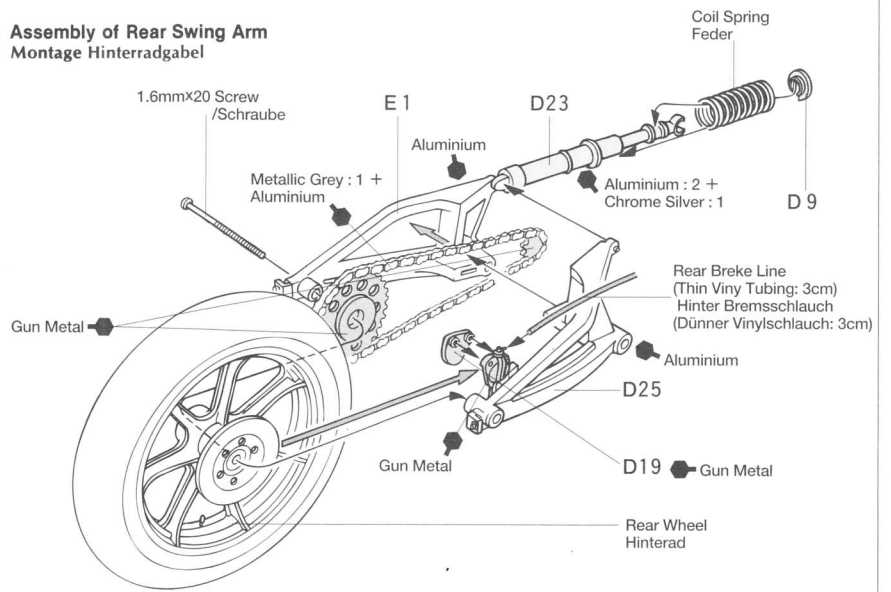
Plug Wire C (Thin Vinyl Tubing: 2.4cm)  
Zündkabel C (Dünner Vinylschlauch: 2.4cm)  
Plug Wire B (Thin Vinyl Tubing: 2.4cm)  
Zündkabel B (Dünner Vinylschlauch: 2.4cm)



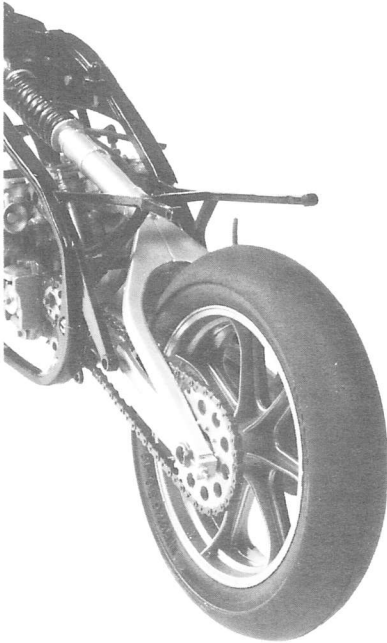
**5** Placing Engine into Frame  
Einbau Motor in Rahmen



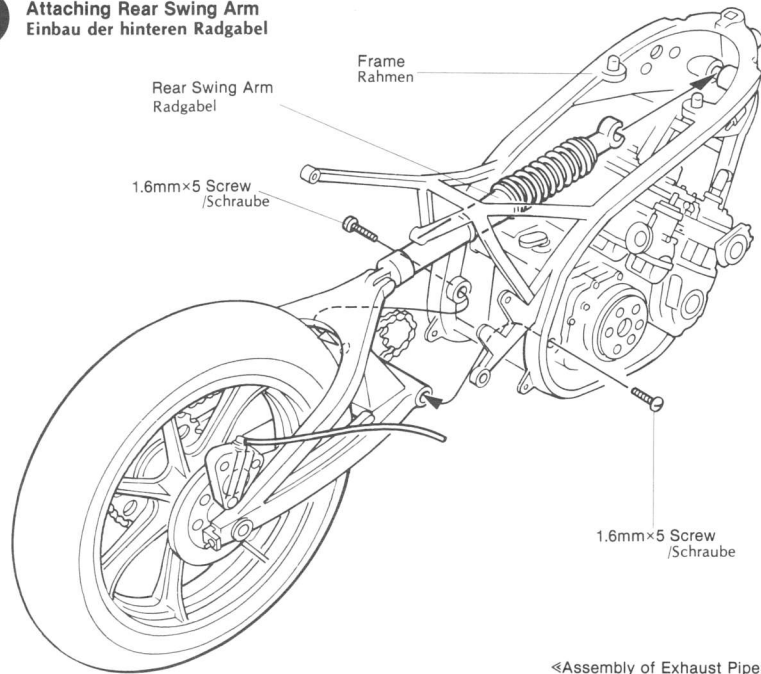
**6** Assembly of Rear Swing Arm  
Montage Hinterradgabel



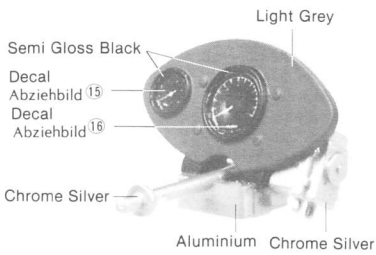
**7** «Attached Rear Wheel»  
«Eingebautes Hinterrad»



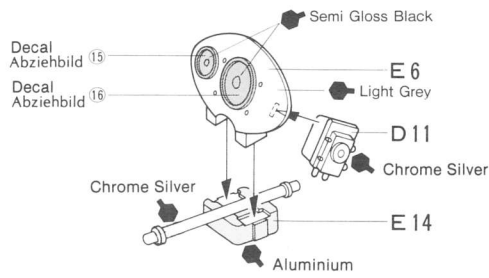
**7** Attaching Rear Swing Arm  
Einbau der hinteren Radgabel



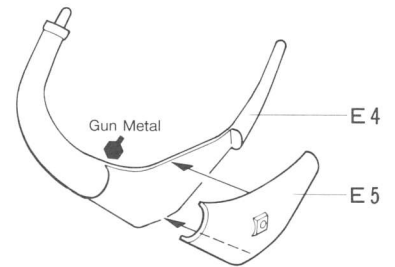
**8** «Assembled Meters»  
«Tachometer»



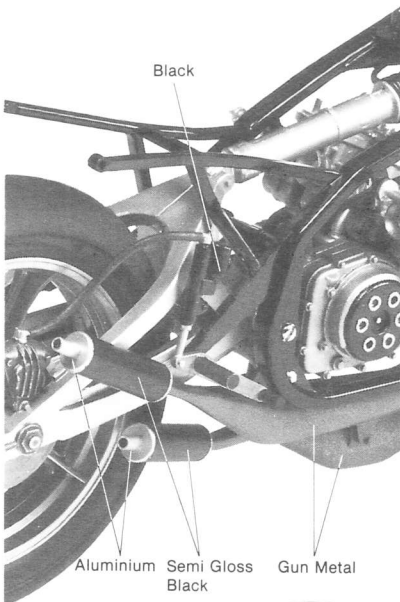
**8** Assembly of Meters  
Zusammenbau der Tachometer



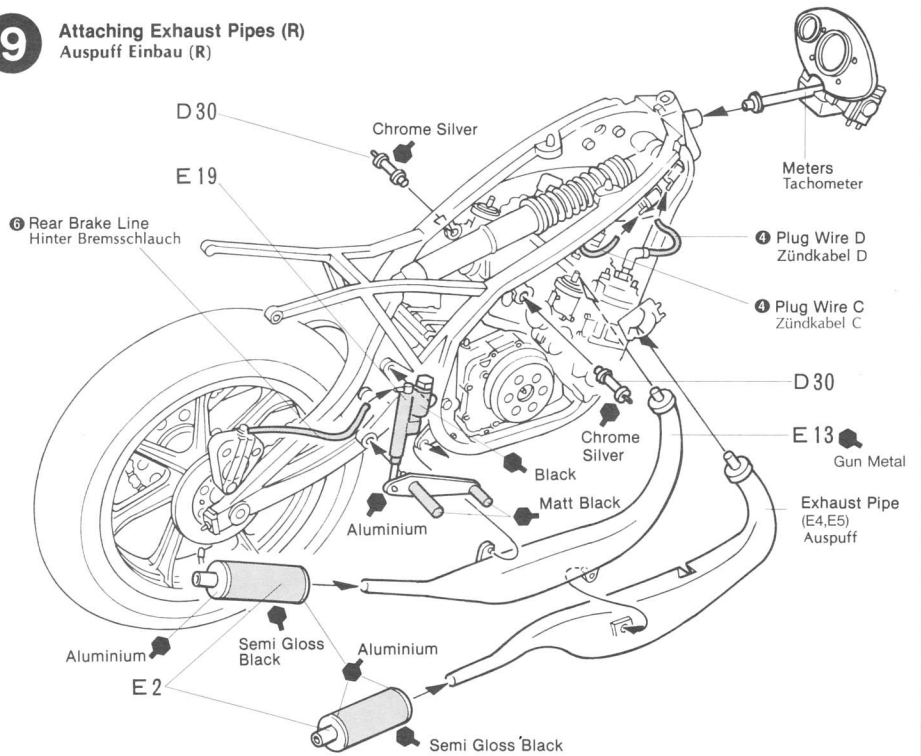
«Assembly of Exhaust Pipe»  
«Auspuff zusammenbau»



**9** «Attached Exhaust Pipes(R)»  
«Eingebautes Auspuff (R)»



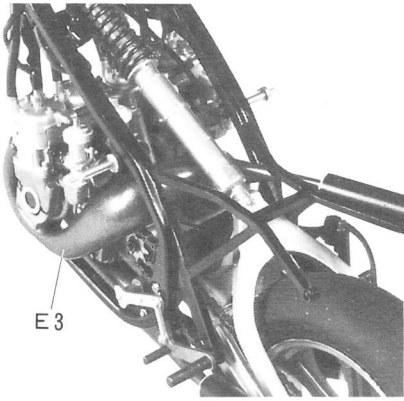
**9** Attaching Exhaust Pipes (R)  
Auspuff Einbau (R)



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Try the new Tamiya acrylic  
paints. Engineered by modelers for model-  
er's use. The final cover for the finest mod-  
els. Insist on Tamiya for perfect results.

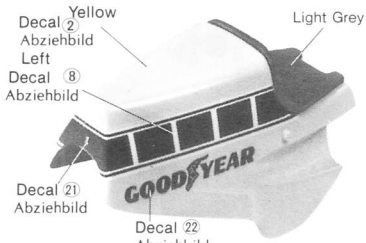


**10** «Attached Exhaust Pipes(L)»  
«Eingebautes Auspuff (L)»



E 3

**11** «Assembled Seat Cowl»  
«Sitzverkleidung»



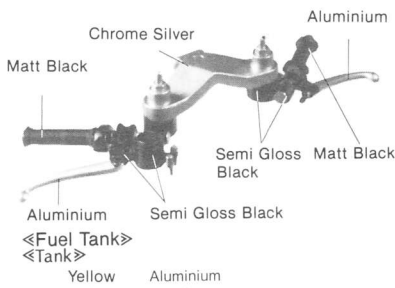
Decal 2  
Abziehbild  
Left  
Decal 8  
Abziehbild

Light Grey

Decal 21  
Abziehbild

Decal 22  
Abziehbild

**12** «Handle-Bar»  
«Lenkstange»



Aluminium

Chrome Silver

Matt Black

Semi Gloss Black

Matt Black

Aluminium

Semi Gloss Black

«Fuel Tank»  
«Tank»

Yellow

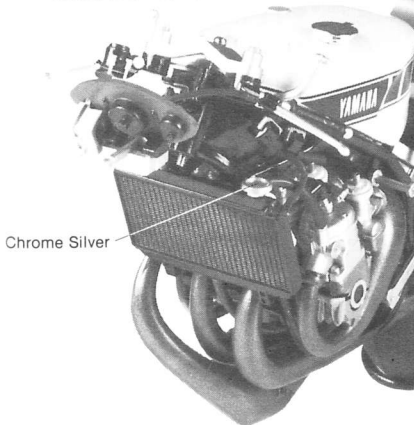
Aluminium

White

Decal 1  
Abziehbild

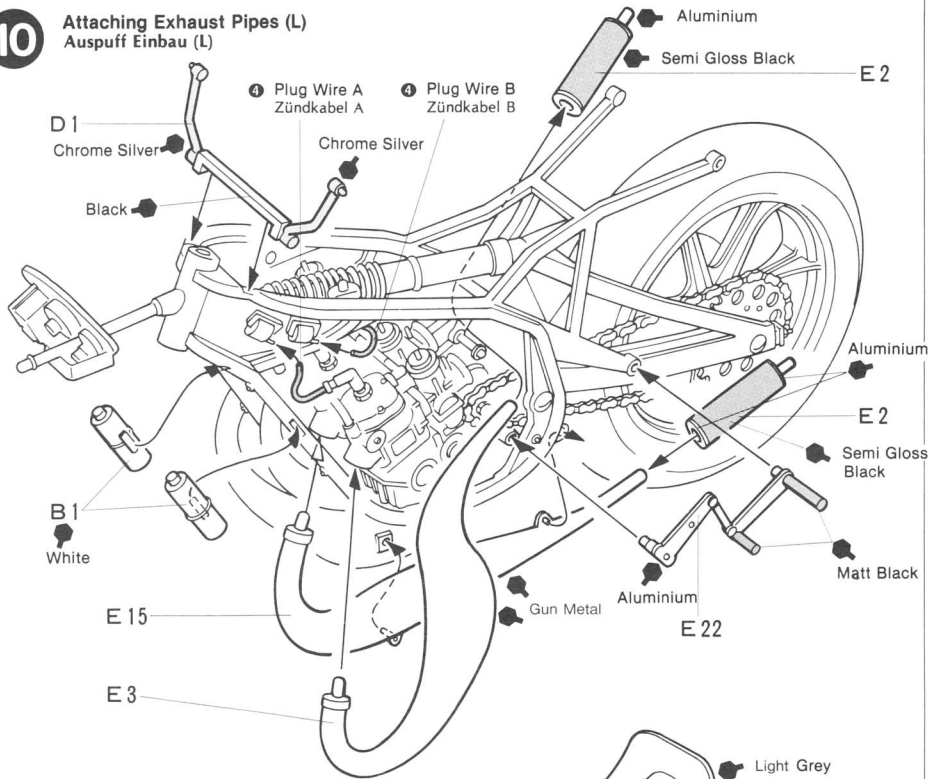
Decal 6  
Abziehbild

«Attached Radiator»  
«Eingebauter Kühlers»

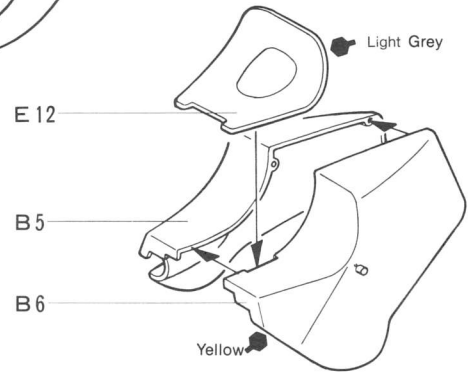


Chrome Silver

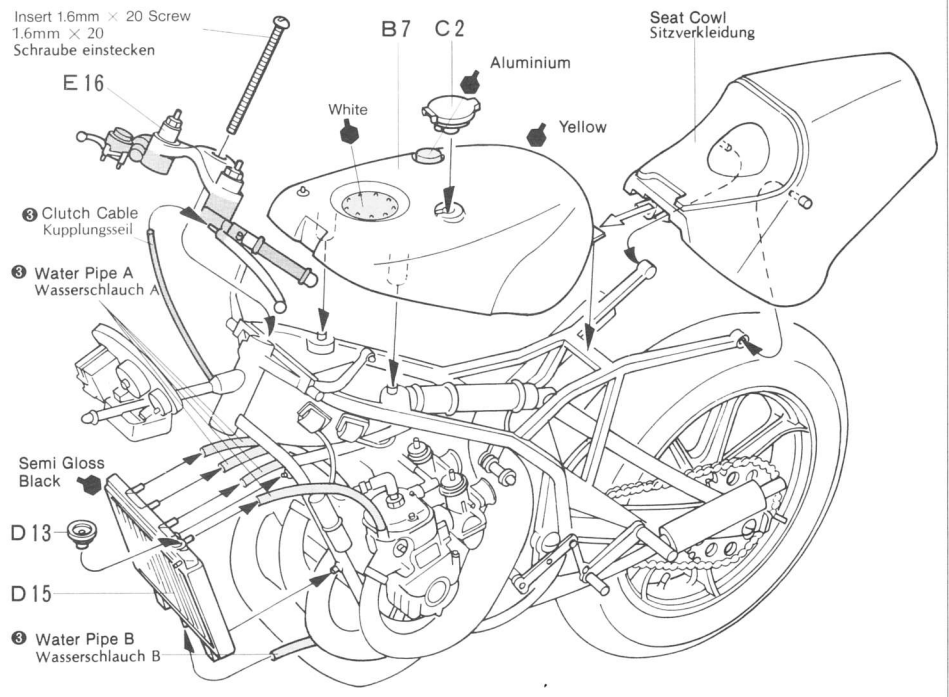
**10** Attaching Exhaust Pipes (L)  
Auspuff Einbau (L)



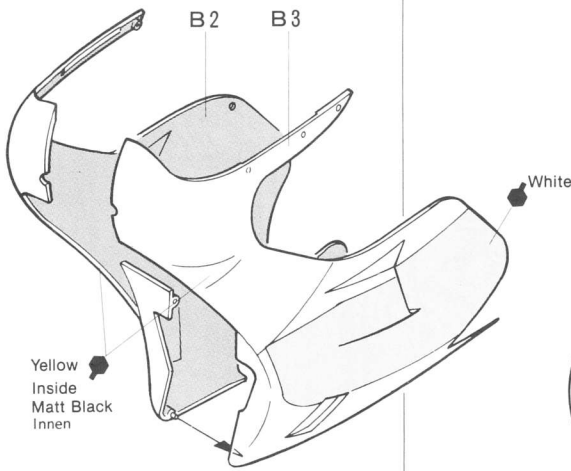
**11** Assembly of Seat Cowl  
Zusammenbau der Sitzverkleidung



**12** Installing Fuel Tank  
Einbau Tank

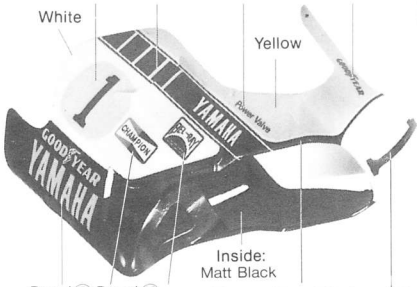


**13** <<Assembly of Cowling>>  
<<Zusammenbau der Verkleidung>>



<<Painting and Marking>>  
<<Bemalung und Markierung>>

Decal 11 Abziehbild Decal 3 Abziehbild Decal 19 Abziehbild Decal 13 Abziehbild

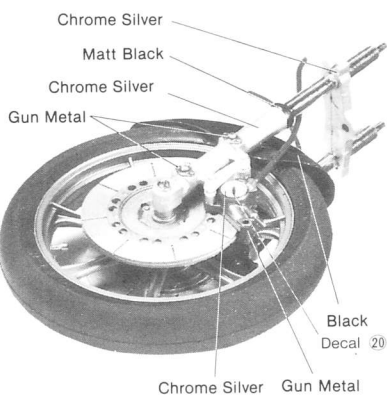


Decal 5 Abziehbild Decal 18 Abziehbild Decal 17 Abziehbild Decal 4 Abziehbild Decal 12 Abziehbild  
Decal 19 Abziehbild Decal 9 Abziehbild Decal 8 Abziehbild Decal 24 Abziehbild

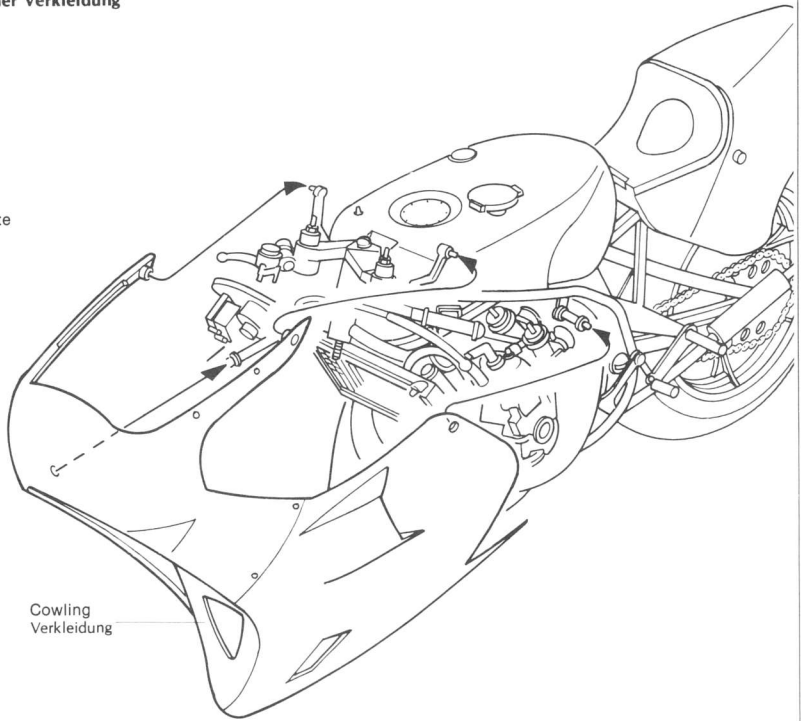


Decal 17 Abziehbild Decal 18 Abziehbild Decal 23 Abziehbild Decal 10 Abziehbild

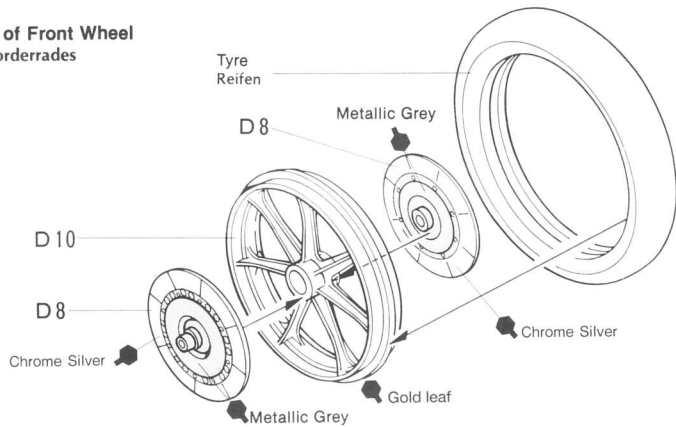
**15** <<Front Fork>>  
<<Vorderrad-Gabel>>



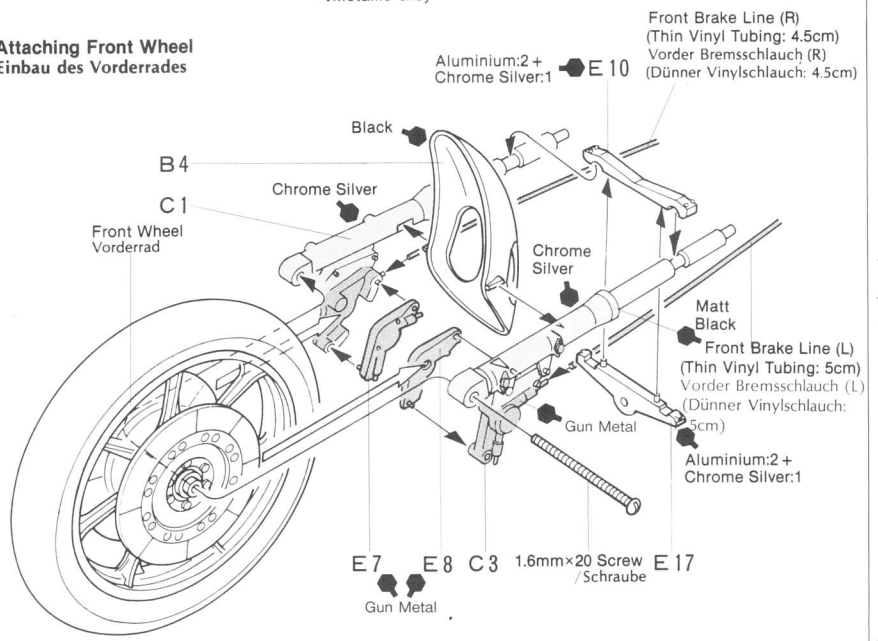
**13** Attaching Cowling  
Einbau der Verkleidung



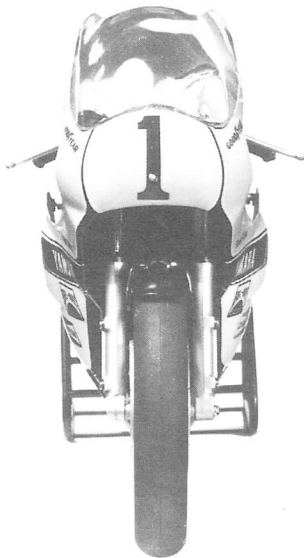
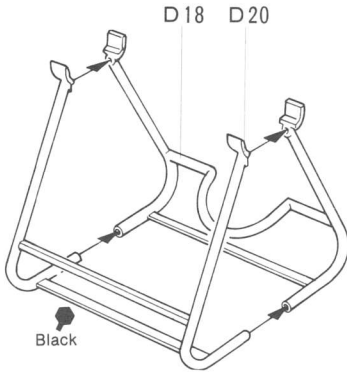
**14** Assembly of Front Wheel  
Bau des Vorderrades



**15** Attaching Front Wheel  
Einbau des Vorderrades



**16** <<Assembly of Stand>>  
<<Ständer>>



**TAMIYA COLOR CATALOGUE**

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**APPLYING DECALS**

**DECAL APPLICATION**

1. Cut off decal from sheet.
2. Dip the decal in tepid water for about 10 sec. and place on a clean cloth.
3. Hold the backing sheet edge and slide decal onto the model.
4. Move decal into position by wetting decal with finger.
5. Press decal gently down with a soft cloth until excess water and air bubbles are gone.

**ANBRINGUNG DES ABZIEHBILDES**

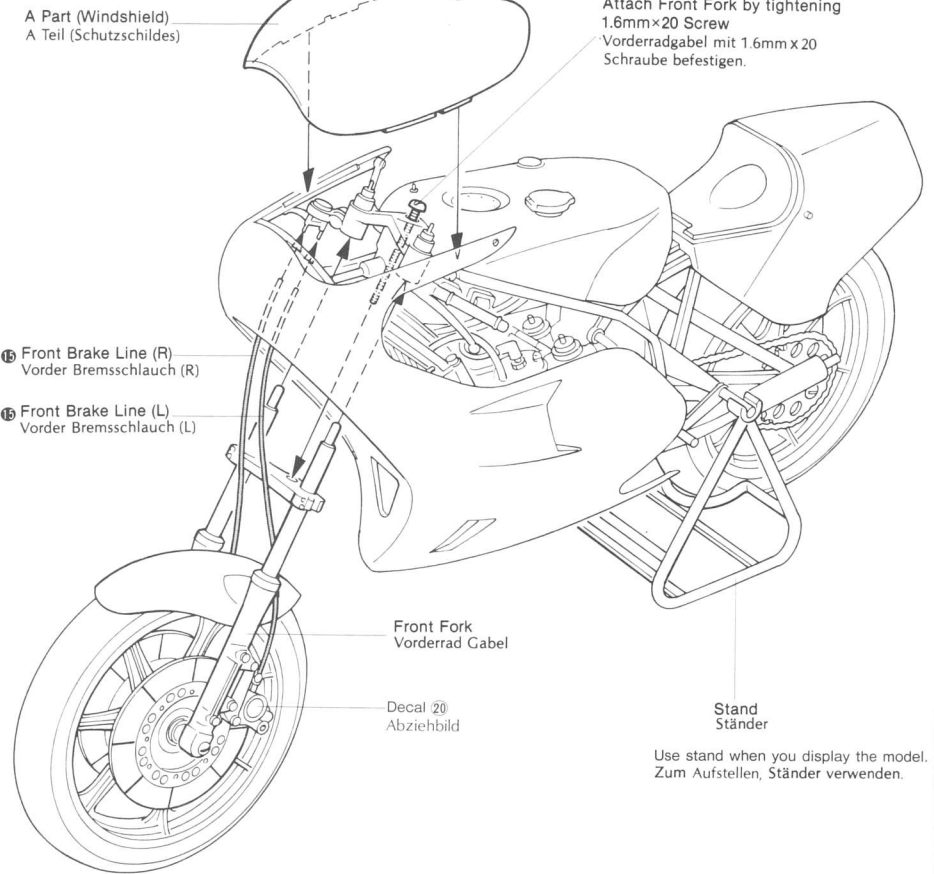
1. Abziehbild vom Blatt ausschneiden.
2. Das Abziehbild ungefähr 10 Sek. in lauwarmes Wasser tauchen, dann auf sauberen Stoff legen.
3. Die Kante der Unterlage halten und das Abziehbild auf das Modell schieben.
4. Das Abziehbild an die richtige Stelle schieben und dabei mit dem Finger das Abziehbild naßmachen.
5. Das abziehbild mit weichem Stoff ganz andrücken, bis kein überflüssiges Wasser und keine Luftblasen mehr vorhanden sind.

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**16** Final Assembly  
Endmontage



**CAUTION**

- Read carefully and fully understand the instructions before commencing assembly. A supervising adult should also read the instructions if a child assembles the model.
- When assembling this kit, tools including knives are used. Extra care should be taken to avoid personal injury.
- Read and follow the instructions supplied with paint and/or cement, if used (not included in kit). Use plastic cement and paints only.
- Keep out of reach of small children. Children must not be allowed to suck any part, or pull vinyl bag over their heads.

**VORSICHT**

- Bevor Sie mit dem Zusammenbau beginnen, sollten Sie alle Anweisungen gelesen und verstanden haben. Fall sein Kind das Modell zusammenbaut, sollte ein beaufsichtigender Erwachsener die Bauanleitung ebenfalls gelesen haben.
- Beim Zusammenbau dieses Bausatzes werden Werkzeuge einschließlich Messer verwendet. Zur Vermeidung von Verletzungen ist besondere Vorsicht angebracht.
- Wenn Sie Farben und/oder Kleber verwenden (nicht im Bausatz enthalten), beachten und befolgen Sie die dort beiliegenden Anweisungen. Nur Klebstoff und Farben für Plastik verwenden.
- Bausatz von kleinen Kindern fernhalten. Verhüten Sie, daß Kinder irgendwelche Bauteile in den Mund nehmen oder Plastiktüten über den Kopf ziehen.

**AFTER MARKET SERVICE CARD**

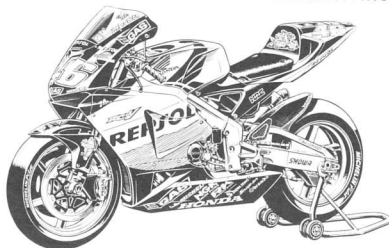
When purchasing Tamiya replacement parts, please take or send this form to your local Tamiya dealer so that the parts required can be correctly identified and supplied. Please note that specifications, availability and price are subject to change without notice.

**Parts code**

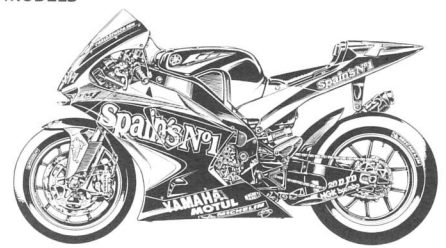
9001080	.....	A Parts
0001058	.....	B Parts
0001059	.....	C Parts
0601013	.....	D Parts
0601014	.....	E Parts
9401004	.....	Metal Parts Bag
1401020	.....	Decal
1061016	.....	Instructions

**ITEM 14001**

**BUILD A COLLECTION ON TAMIYA PRECISION MOTORCYCLE MODELS**



1/12 REPSOL Honda RC211V'03



1/12 YAMAHA YZR-M1'04 No.7/No.33

# PAINTING



# APPLYING DECALS

## «Painting and markings of Yamaha YZR500»

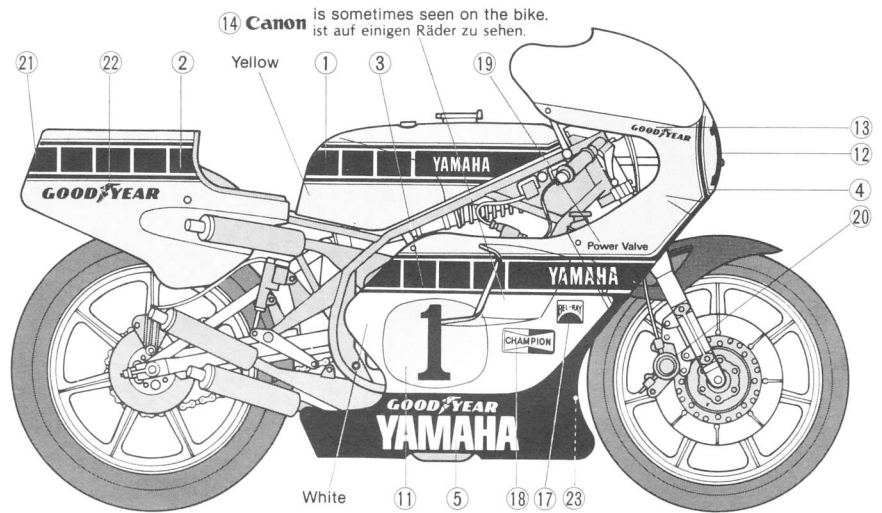
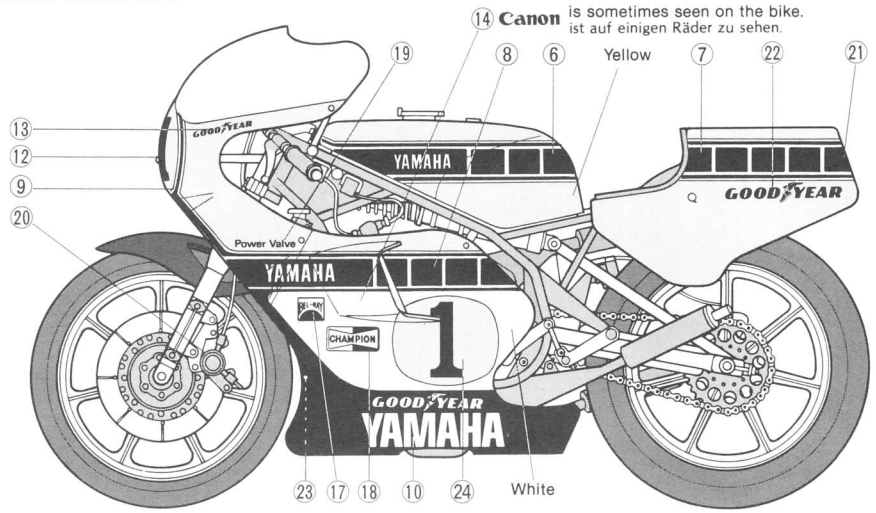
The Yamaha works team motorcycle that challenged the 500cc Grand Prix in 1980, with driver Kenny Roberts, was painted yellow overall with a black accent stripe across the tank and rear cowl, and another stripe of the same width parallel to it across the front cowl, just above, and touching the number circle. This colouring has been adopted by Yamaha America as their team colour. The prestigious racing number 1 has been utilized throughout the racing season. The cast wheels are in gold. Decals, which add colour and glamour to the bike show equipment manufacturers such as: Goodyear tires; Champion spark plugs and Belray oil. Detail painting is shown during the construction steps and should be done at that time. Apply the decals by referring to the drawing at right.

## «Bemalung der Yamaha YZR500»

Die Yamaha Maschine des Werkteams, Fahrer Kenny Roberts, im Grand Prix 1980 der 500 cc Klasse, war ganz gelb bemalt und hatte einen schwarzen Streifen über den Tank und die hintere Verkleidung und an den Seiten, über den Nummern. Diese Bemalung wurde von dem Yamaha America Team übernommen. Die Nummer 1 wurde in der ganzen Rennsaison verwendet. Die Metallguss-Räder sind in goldfarben. Goodyear Reifen, Champion Zündkerzen und Belray Öl haben ihre farbigen Sticker auf der Maschine. Bemalung kleinerer Teile ist in der Anleitung angegeben. Anbringung der Decals siehe Bild rechts.

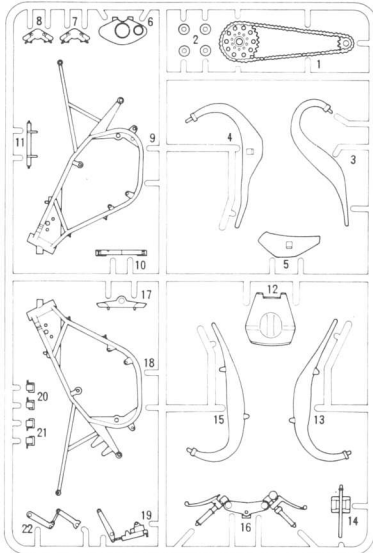
«America Yamaha Team»  
«Amerika Yamaha Team»

Rider: Kenny Roberts

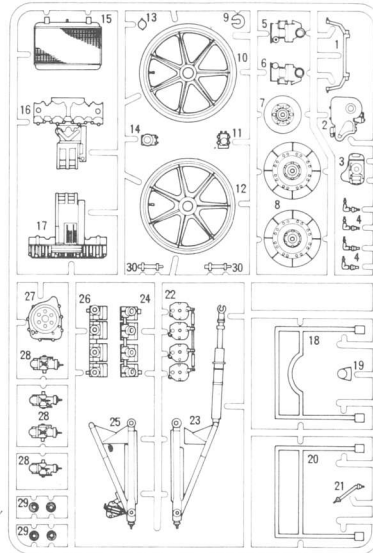


# PARTS

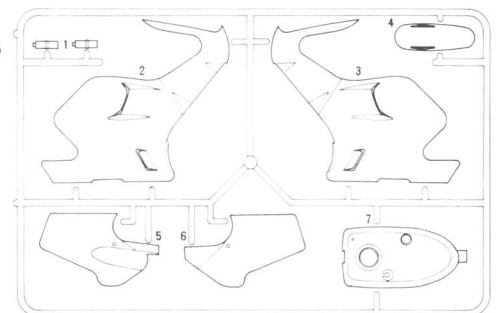
## E PARTS



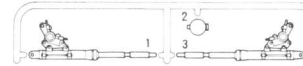
## D PARTS



## B PARTS



## C PARTS



## A PARTS



### «Metal Bag»

- Front Tyre
- Rear Tyre
- Coil Spring
- 1.6mm×20 Screw
- 1.6mm×5 Screw
- Thick Vinyl Tubing (10cm)
- Thin Vinyl Tubing (50cm)

Decal