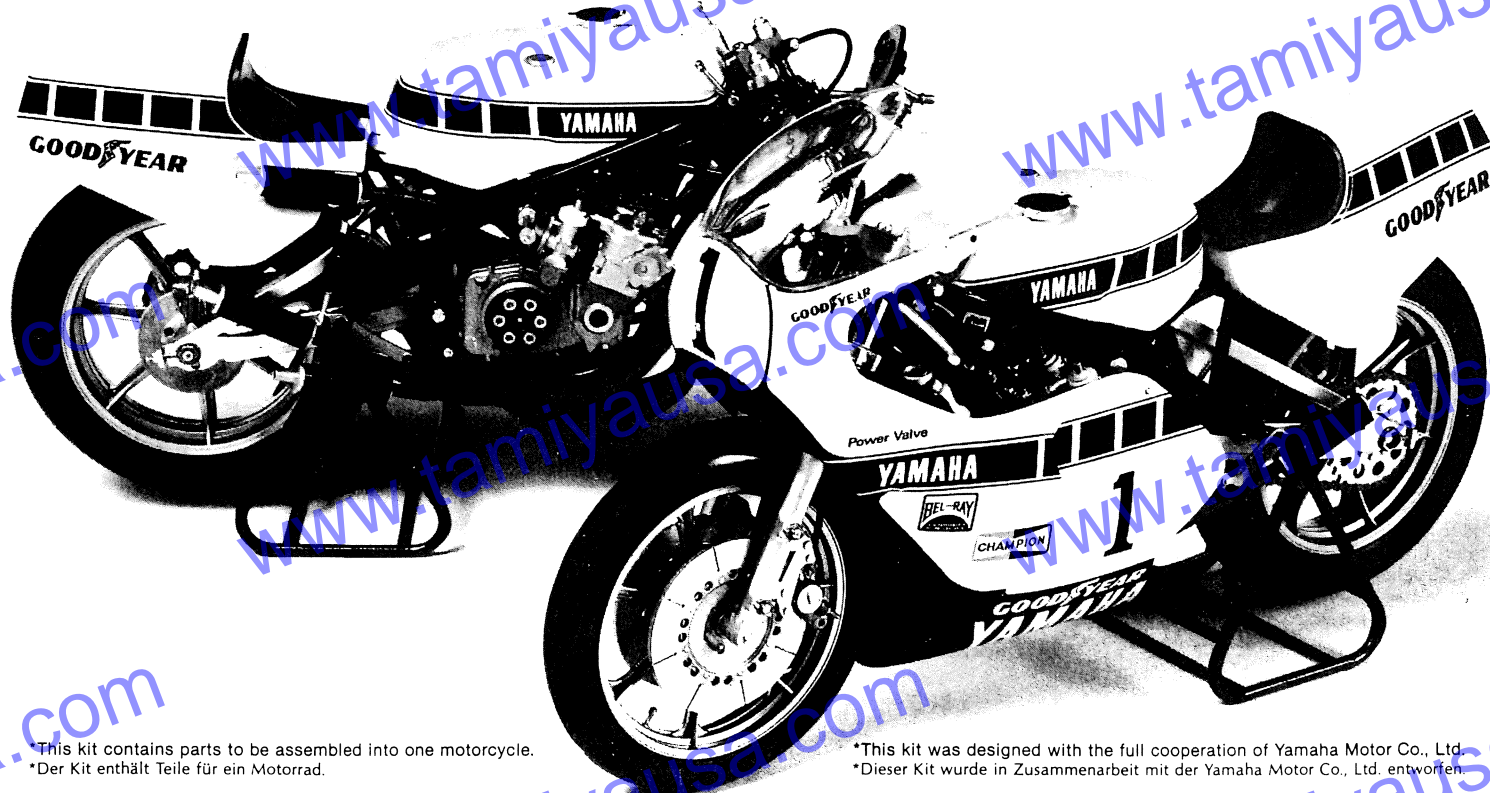


YAMAHA YZR500



GRAND PRIX RACER



*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 Kyaba 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 Wachstum 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.

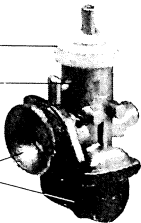
★ Vor Beginn die Bauanleitung studieren und den Nummern nach die Elemente zusammenbauen.

★ Bauteile nicht vom Spritzling abbrechen, vorsichtig abschneiden oder abzwicken. 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»

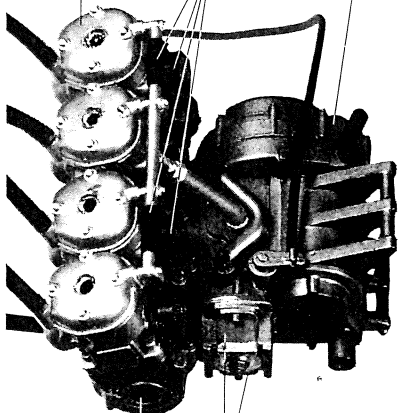
- White + Yellow
- Chrome Silver
- Gun Metal + Gold



- White + Yellow
- Chrome Silver:1 + Aluminium:1
- D 29
- D 28
- Gun Metal:1 + Gold:1

3 «Engine»
«Motor»

- Chrome Silver
- Matt Black
- Gun Metal:1 + Metallic Grey:1
- Semi Gloss Black
- Matt Earth



1 Frame Assembly
Rahmenbau

- E 20 Gold
 - E 18 Black
 - E 11 Black
 - Semi Gloss Black
 - Black
 - Black
 - Black
 - Gold
 - Black
 - Chrome Silver
 - E 9 Chrome Silver
 - E 21 Semi Gloss Black
- Semi Gloss Black = Black:1 + Matt Black:1

2 Assembly of Engine
Motorenbau

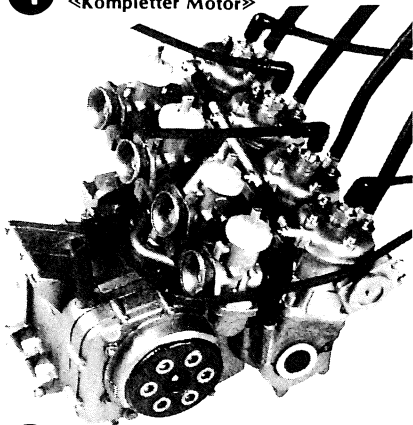
«Carburetor» Make 4 sets.
«Vergaser» 4 Satz machen.

- Breather Pipe (Thick Vinyl Tubing: 0.8cm)
Entlüftungsschlauch (Dicker Vinylschlauch: 0.8cm)
- D 26 Chrome Silver:1 + Aluminium:1
- D 24
- D 16
- Gun Metal:1 + Metallic Grey:1
- D 17
- D 29
- D 28
- Gun Metal:1 + Gold:1

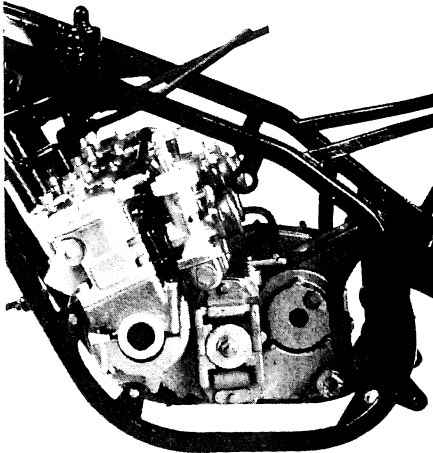
3 Attaching Cylinder Head
Zylinder Montage

- Water Pipe A (Thick Vinyl Tubing: 1.7cm)
Wasserschlauch A (Dicker Vinylschlauch: 1.7cm)
- Water Pipe B (Thick Vinyl Tubing: 2.4cm)
Wasserschlauch B (Dicker Vinylschlauch: 2.4cm)
- Chrom Silver
- Matt Black
- D 22
- D 21
- Chrome Silver
- Chrom Silver:1 + Aluminium:1
- D 6
- Gun Metal:1 + Metallic Grey:1
- Clutch Cable (Thin Vinyl Tubing: 9cm)
Kupplungsseil (Dünner Vinylschlauch: 9cm)
- Chrom Silver:1 + Aluminium:1
- D 2
- D 5
- Semi Gloss Black
- Gun Metal:1 + Metallic Grey:1
- D 3
- Matt Earth

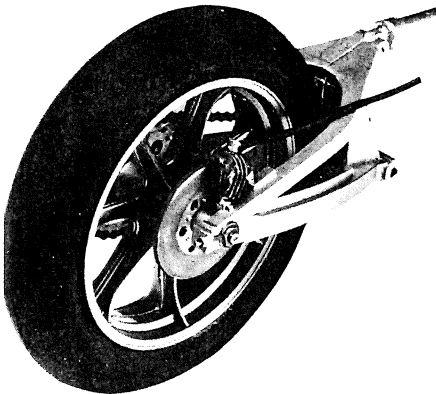
4 «Assembled Engine»
«Kompletter Motor»



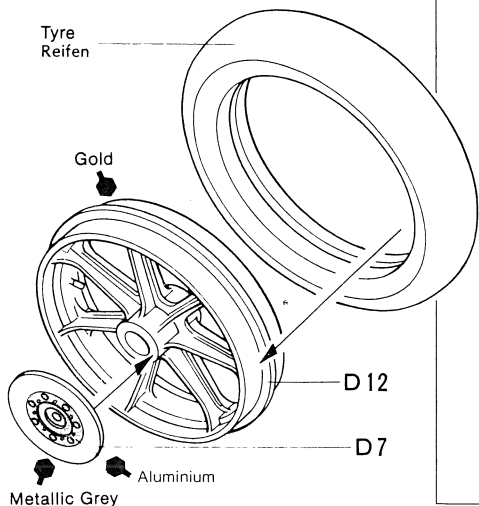
5 «Mounted Engine»
«Eingebauter Motor»



6 «Assembled Rear Swing Arm»
«Komplette Radgabel»

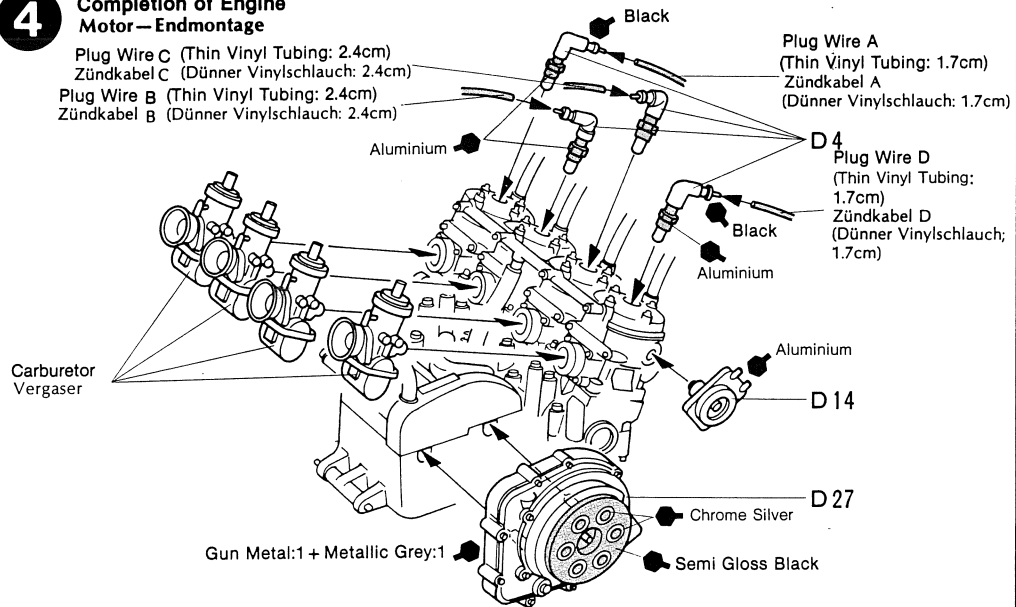


«Assembly of Rear Wheel»
«Hinterrad Montage»

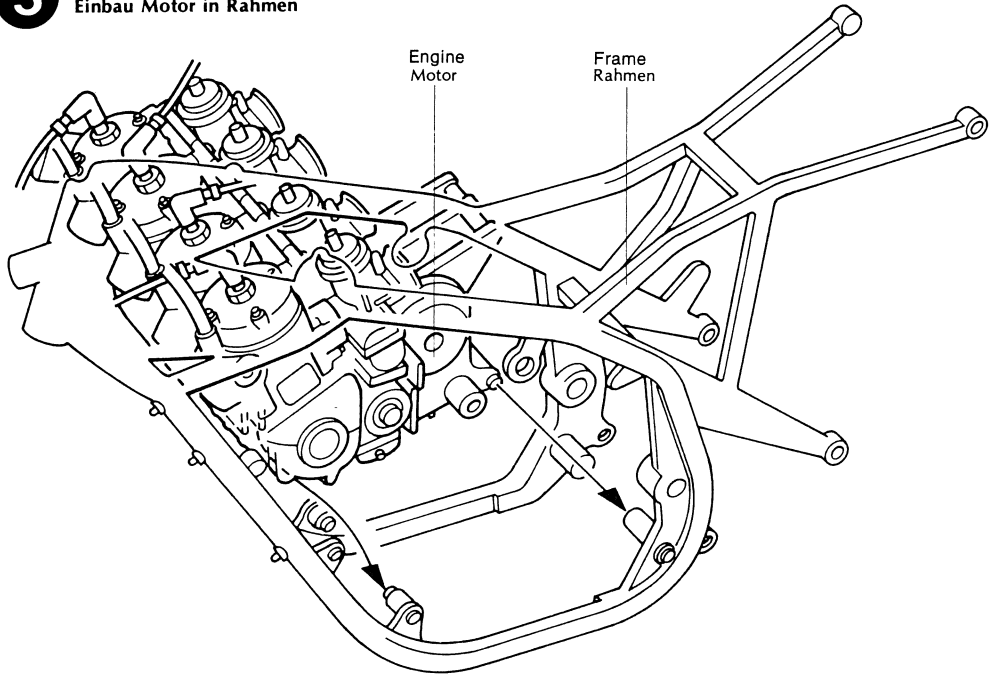


4 Completion of Engine
Motor—Endmontage

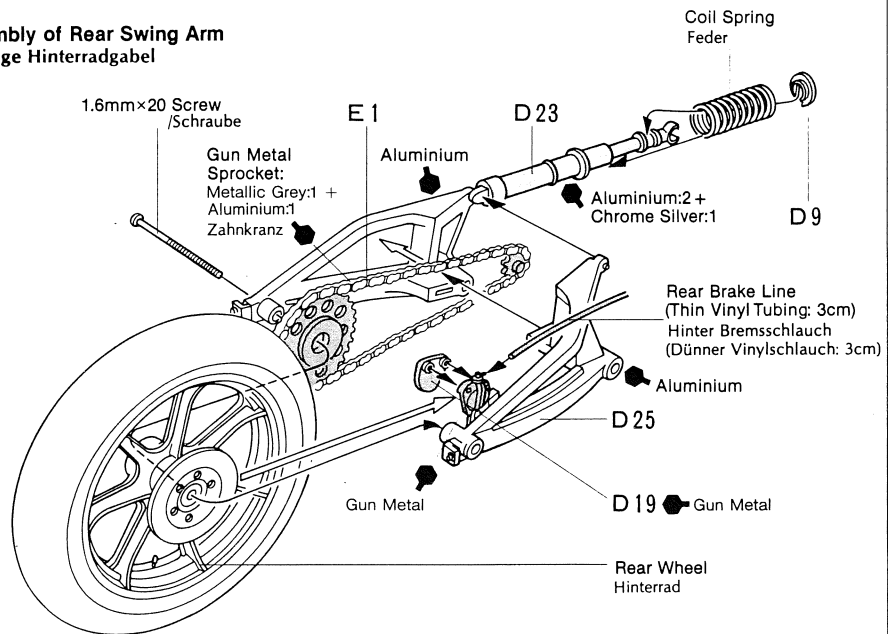
Plug Wire C (Thin Vinyl Tubing: 2.4cm)
Zündkabel C (Dünner Vinylschlauch: 2.4cm)
Plug Wire B (Thin Vinyl Tubing: 2.4cm)
Zündkabel B (Dünner Vinylschlauch: 2.4cm)



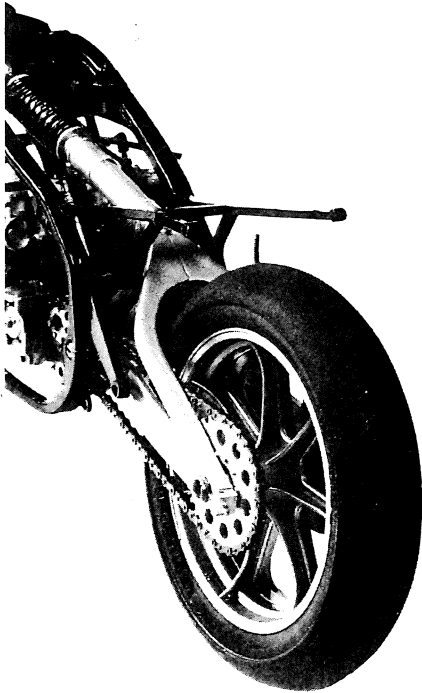
5 Placing Engine into Frame
Einbau Motor in Rahmen



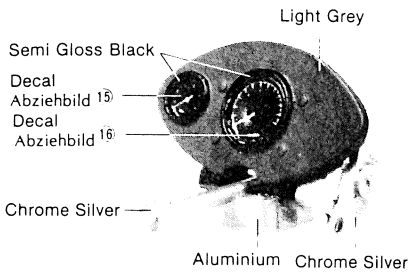
6 Assembly of Rear Swing Arm
Montage Hinterradgabel



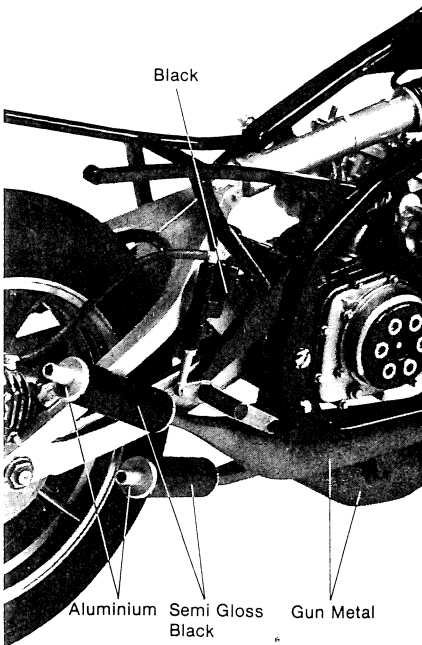
7 «Attached Rear Wheel»
«Eingebautes Hinterrad»



8 «Assembled Meters»
«Tachometer»

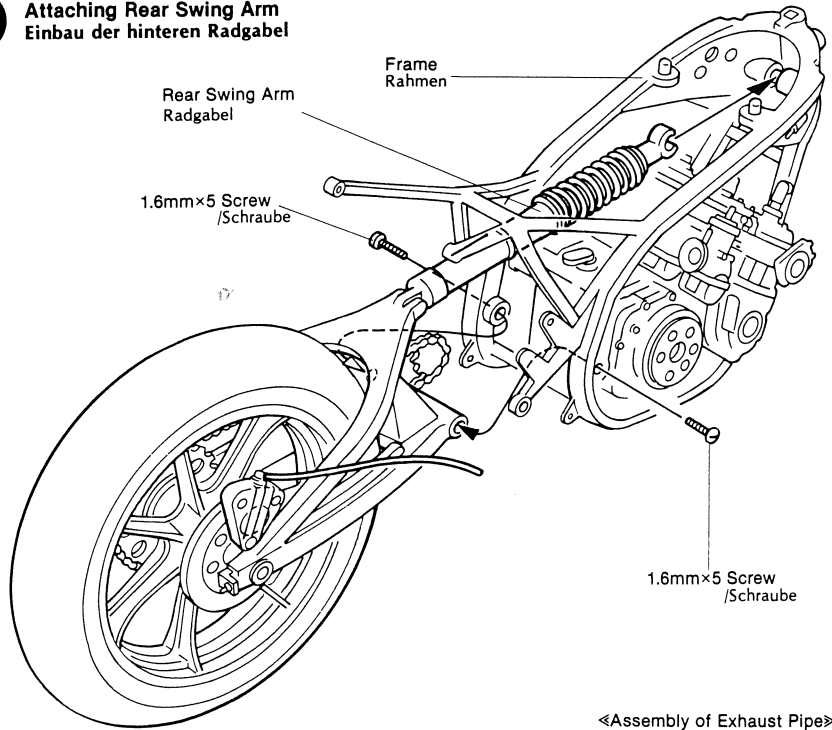


9 «Attached Exhaust Pipes(R)»
«Eingebautes Auspuff (R)»

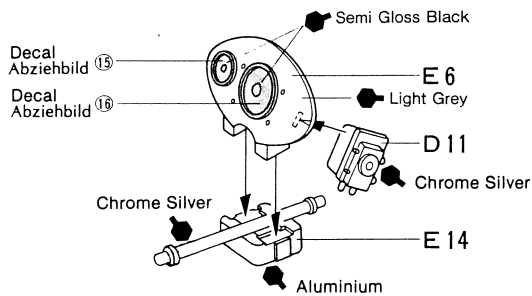


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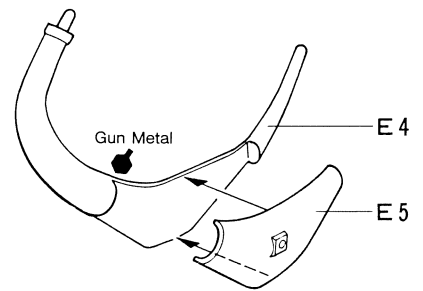
7 Attaching Rear Swing Arm
Einbau der hinteren Radgabel



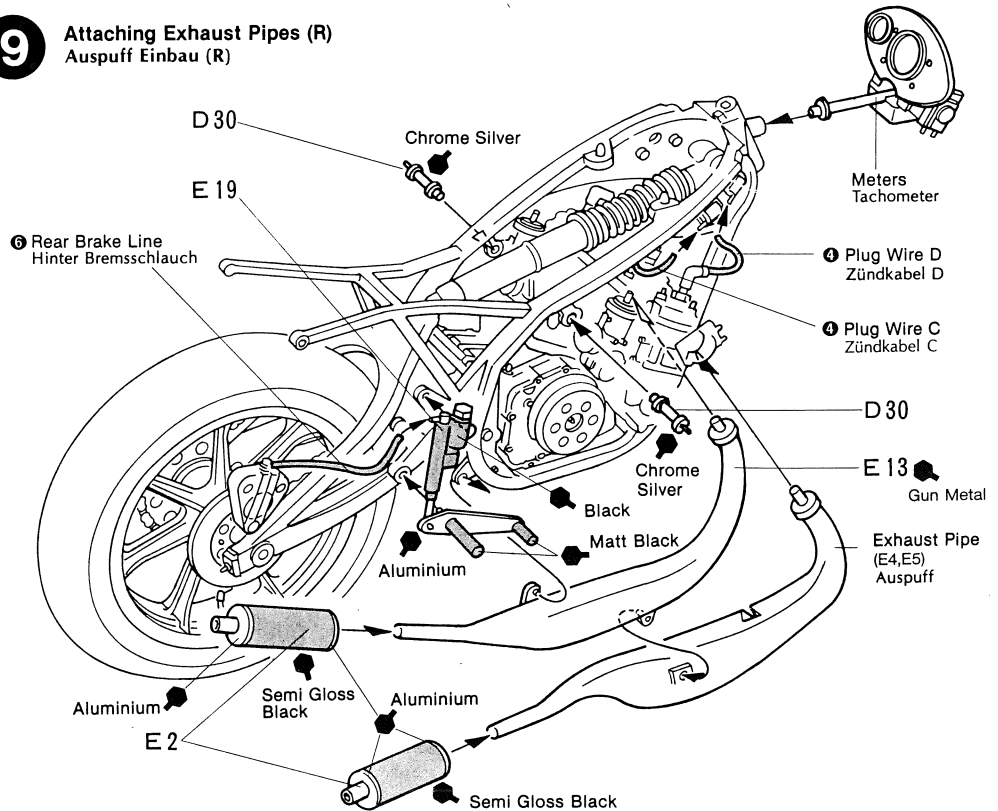
8 Assembly of Meters
Zusammenbau der Tachometer



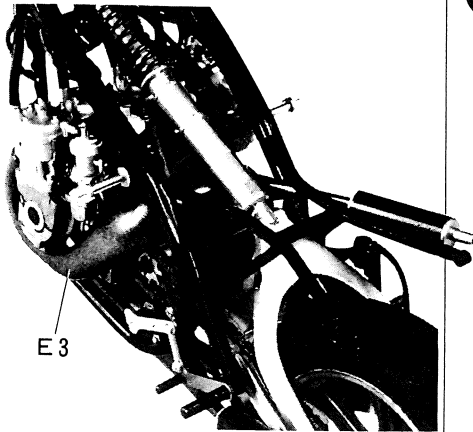
«Assembly of Exhaust Pipe»
«Auspuff zusammenbau»



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

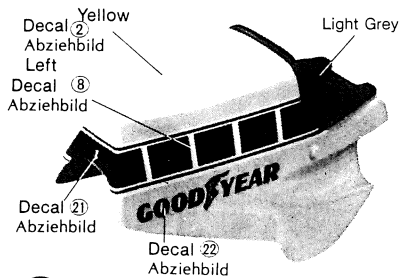


10 <<Attached Exhaust Pipes(L)>>
<<Eingebautes Auspuff (L)>>



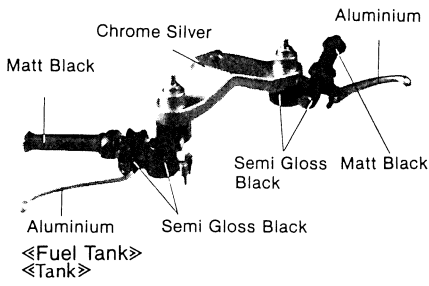
E 3

11 <<Assembled Seat Cowl>>
<<Sitzverkleidung>>



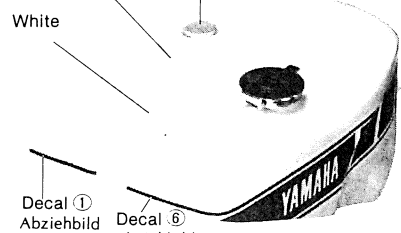
Decal ② Abziehbild Yellow
Decal ⑧ Abziehbild Left Light Grey
Decal ① Abziehbild
Decal ③ Abziehbild
Decal ④ Abziehbild
Decal ⑤ Abziehbild
Decal ⑥ Abziehbild
Decal ⑦ Abziehbild
Decal ⑨ Abziehbild
Decal ⑩ Abziehbild
Decal ⑪ Abziehbild
Decal ⑫ Abziehbild
Decal ⑬ Abziehbild
Decal ⑭ Abziehbild
Decal ⑮ Abziehbild
Decal ⑯ Abziehbild
Decal ⑰ Abziehbild
Decal ⑱ Abziehbild
Decal ⑲ Abziehbild
Decal ⑳ Abziehbild
Decal ㉑ Abziehbild
Decal ㉒ Abziehbild
Decal ㉓ Abziehbild
Decal ㉔ Abziehbild
Decal ㉕ Abziehbild
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Decal ㊾ Abziehbild
Decal ㊿ Abziehbild

12 <<Handle-Bar>>
<<Lenkstange>>



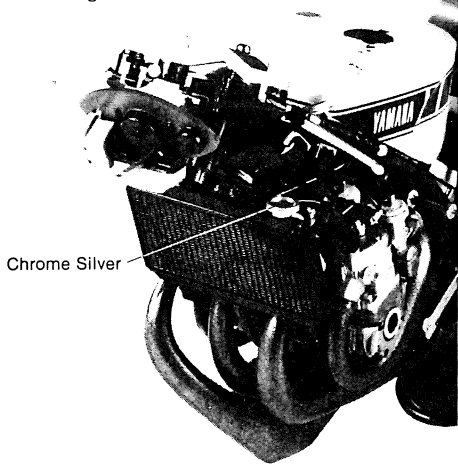
Chrome Silver
Aluminium
Matt Black
Semi Gloss Black
Matt Black
Semi Gloss Black
Aluminium
Semi Gloss Black
Aluminium
Yellow
Aluminium

<<Fuel Tank>>
<<Tank>>



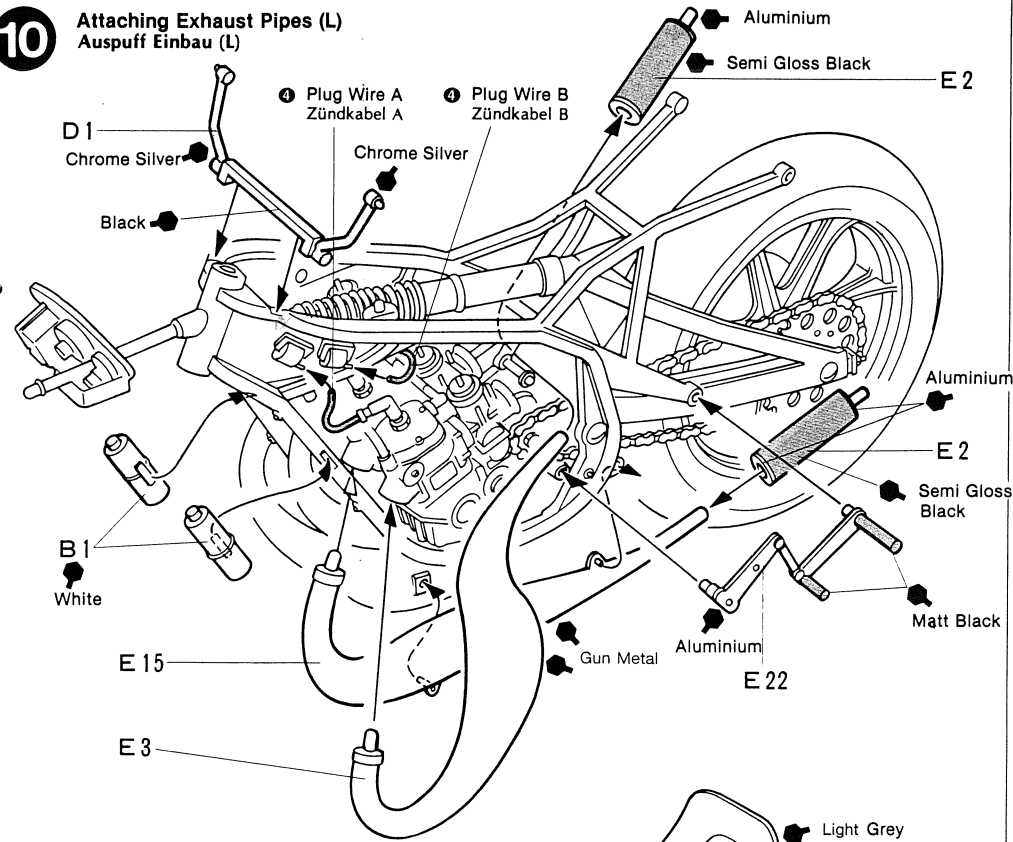
White
Decal ① Abziehbild
Decal ⑥ Abziehbild

<<Attached Radiator>>
<<Eingebauter Kühlers>>



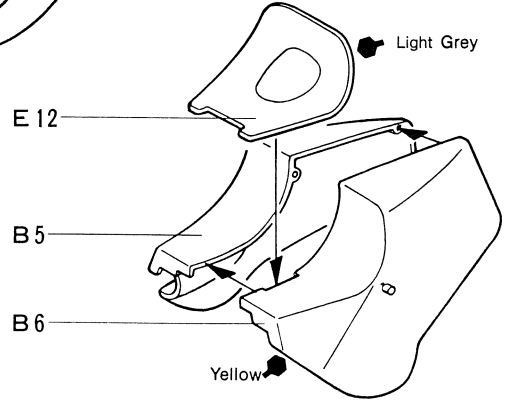
Chrome Silver

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

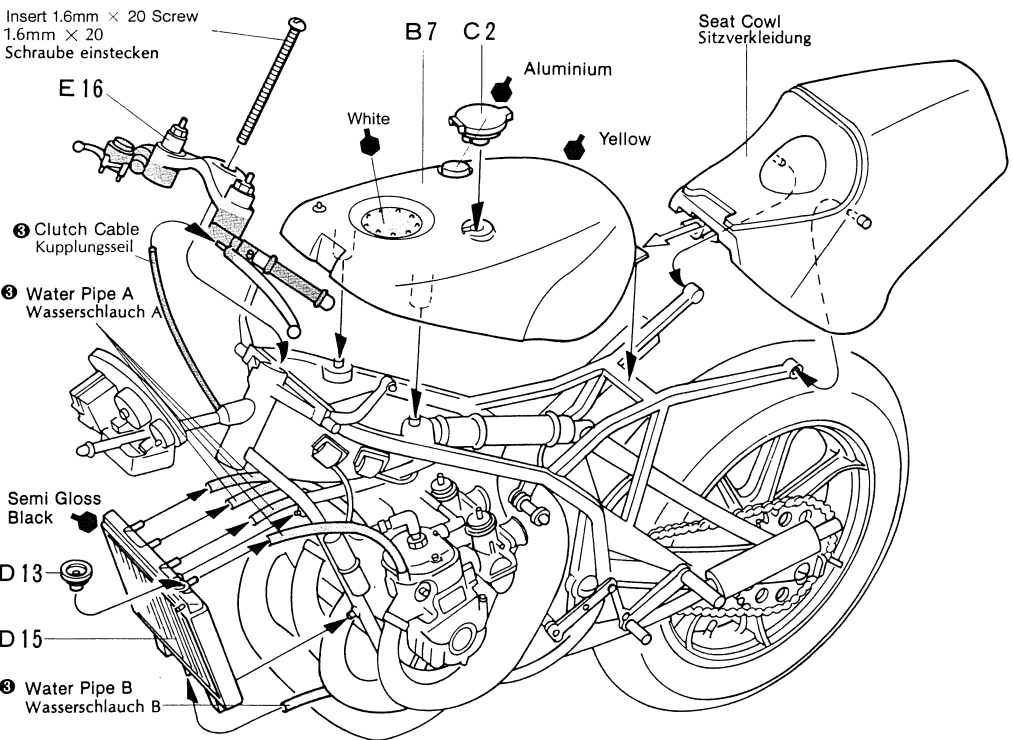


Aluminium
Semi Gloss Black
E 2
Plug Wire A Zündkabel A
Plug Wire B Zündkabel B
Chrome Silver
Black
D 1
White
B 1
E 15
E 3
Aluminium
Semi Gloss Black
E 2
Matt Black
Aluminium
Gun Metal
E 22
Light Grey
E 12
B 5
B 6
Yellow

11 Assembly of Seat Cowl
Zusammenbau der Sitzverkleidung

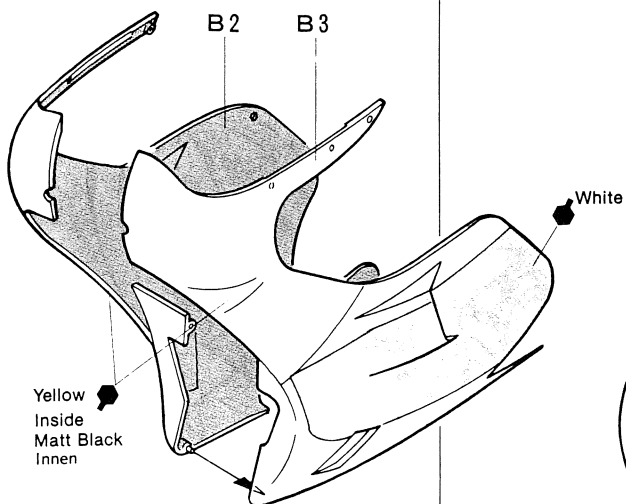


12 Installing Fuel Tank
Einbau Tank

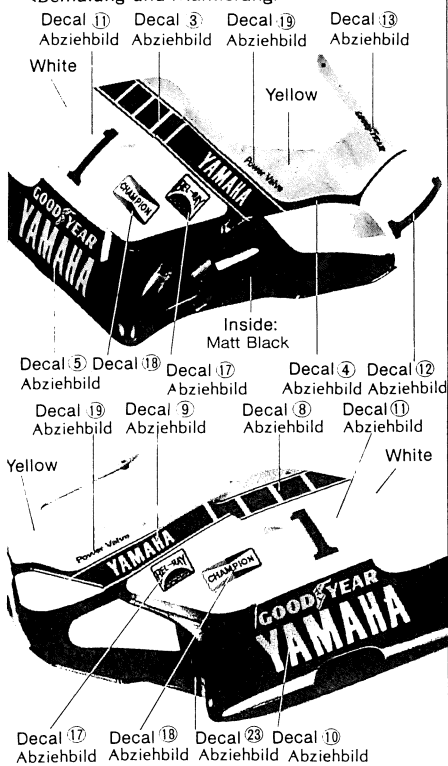


Insert 1.6mm x 20 Screw
1.6mm x 20
Schraube einstecken
E 16
White
B 7
C 2
Aluminium
Yellow
Seat Cowl Sitzverkleidung
③ Clutch Cable Kupplungsseil
④ Water Pipe A Wasserschlauch A
Semi Gloss Black
D 13
D 15
⑤ Water Pipe B Wasserschlauch B

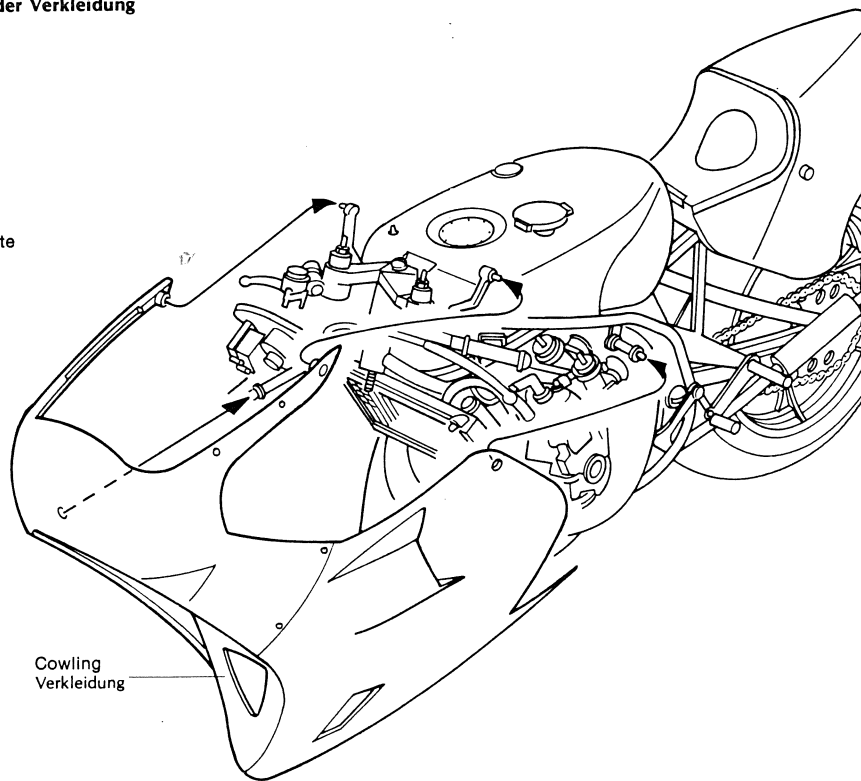
13 <<Assembly of Cowling>>
<<Zusammenbau der Verkleidung>>



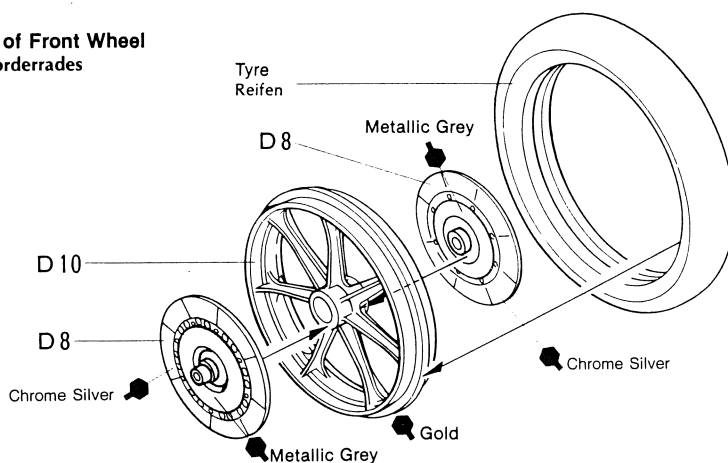
<<Painting and Marking>>
<<Bemalung und Markierung>>



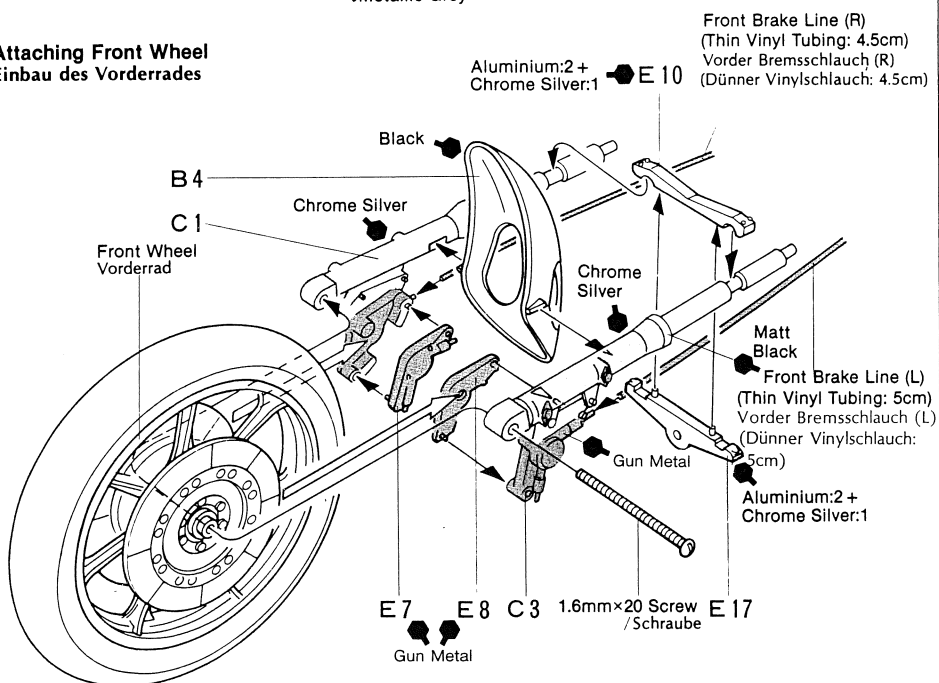
13 Attaching Cowling
Einbau der Verkleidung



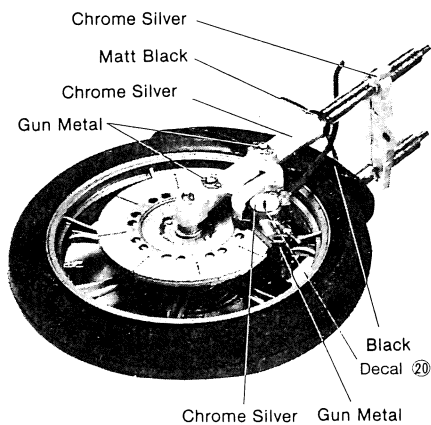
14 Assembly of Front Wheel
Bau des Vorderrades



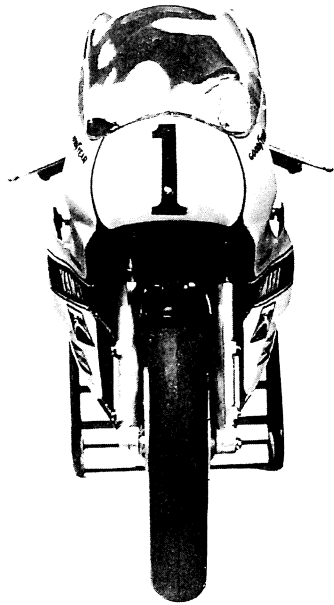
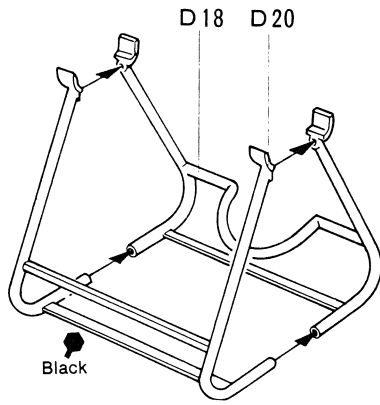
15 Attaching Front Wheel
Einbau des Vorderrades



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



16 <<Assembly of Stand>>
<<Ständer>>

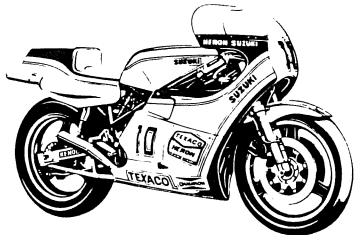


TAMIYA COLOR CATALOGUE

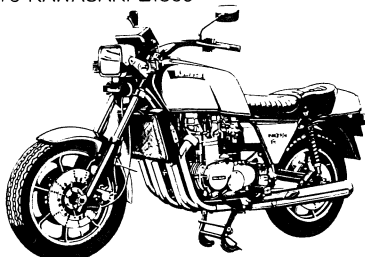
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1/6 KAWASAKI Z1300



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16 Final Assembly
Endmontage

A Part (Windshield)
A Teil (Schutzschildes)

Attach Front Fork by tightening
1.6mm×20 Screw
Vorderradgabel mit 1.6mm×20
Schraube befestigen.

18 Front Brake Line (R)
Vorder Bremsschlauch (R)

18 Front Brake Line (L)
Vorder Bremsschlauch (L)

Front Fork
Vorderrad Gabel

Decal 20
Abziehbild

Stand
Ständer

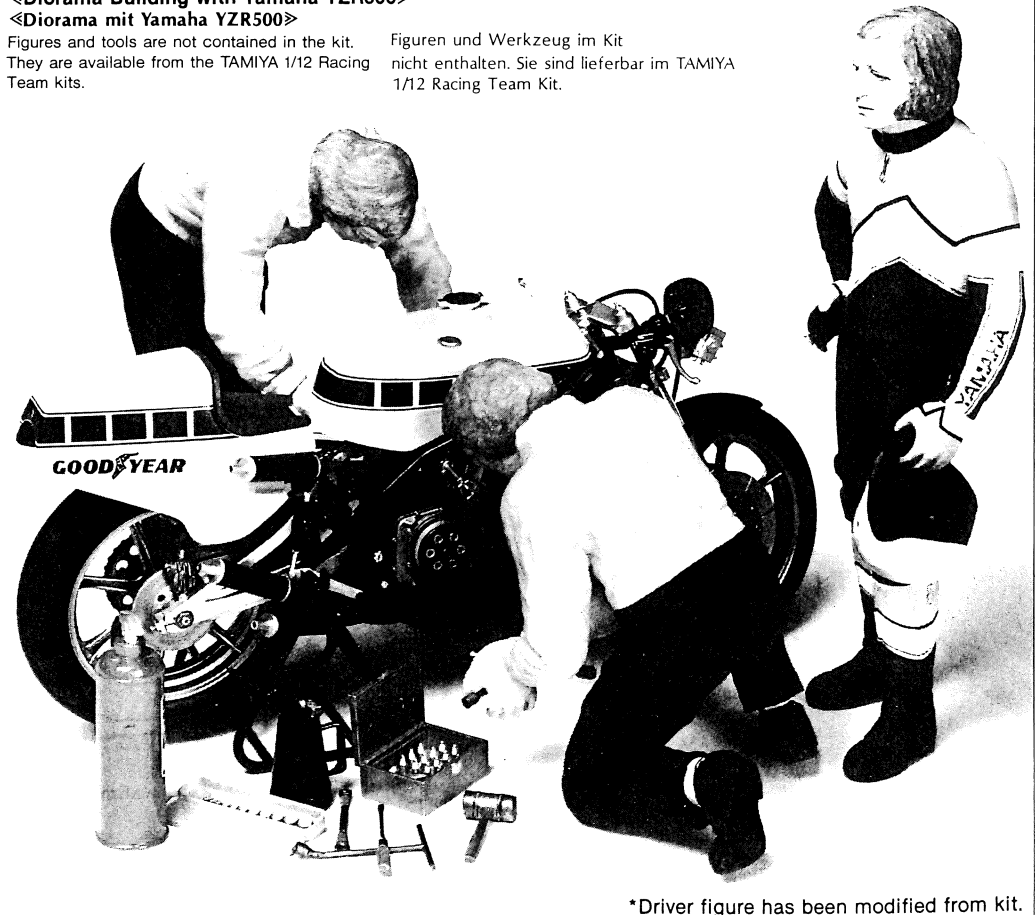
Use stand when you display the model.
Zum Aufstellen, Ständer verwenden.

<<Diorama Building with Yamaha YZR500>>

<<Diorama mit Yamaha YZR500>>

Figures and tools are not contained in the kit.
They are available from the TAMIYA 1/12 Racing
Team kits.

Figuren und Werkzeug im Kit
nicht enthalten. Sie sind lieferbar im TAMIYA
1/12 Racing Team Kit.



*Driver figure has been modified from kit.

PAINTING



APPLYING DECALS

«Painting and markings of Yamaha YZR500»

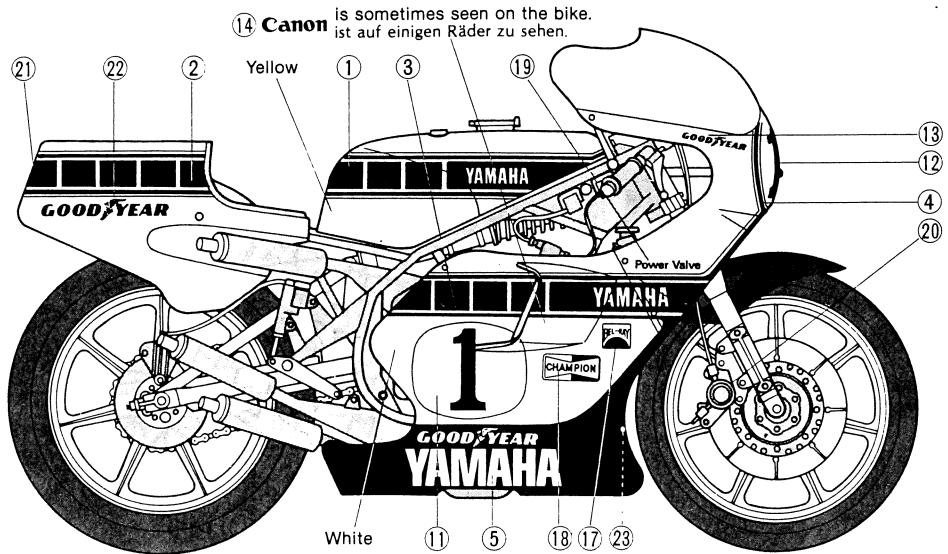
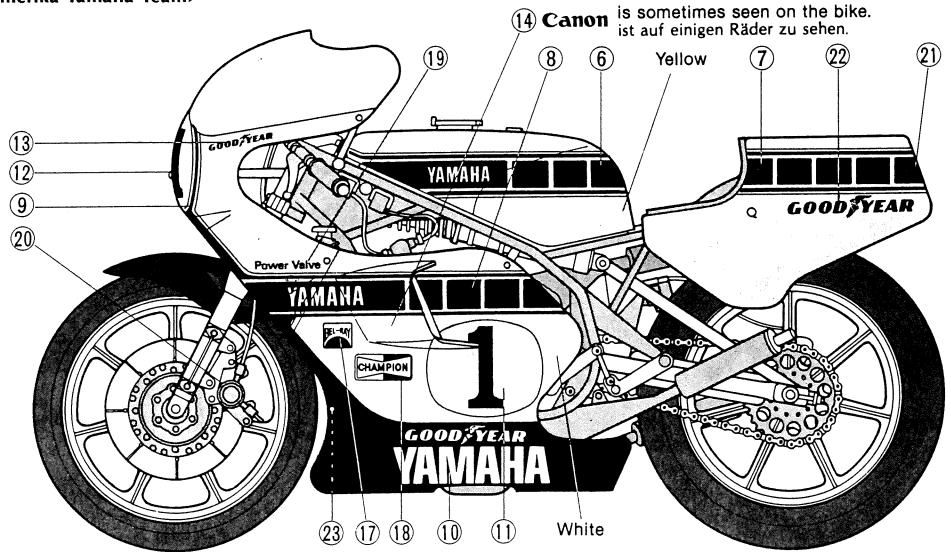
The Yamaha works team motorcycle that challenged the 500cc Grand Prix in 1980, with driver Kenny Roberts, was painted yellow overall with a black accent stripe across the tank and rear cowl, and another stripe of the same width parallel to it across the front cowl, just above, and touching the number 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 Oil haben ihre farbigen Sticker auf der Maschine. Bemalung kleinerer Teile ist in der Anleitung angegeben. Anbringung der Decals siehe Bild rechts.

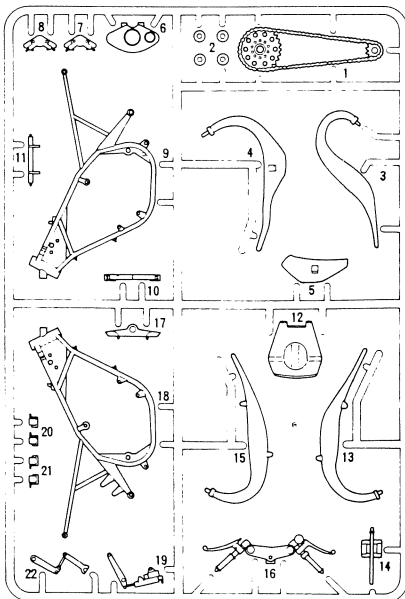
«America Yamaha Team»
«Amerika Yamaha Team»

Rider: Kenny Roberts

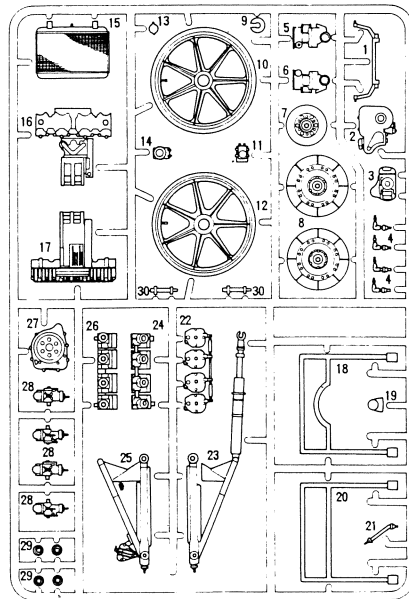


PARTS

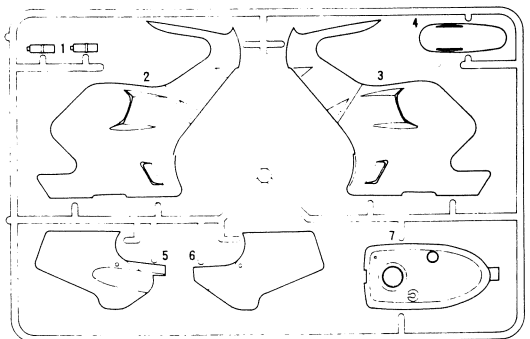
E PARTS



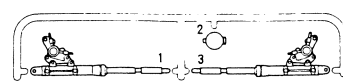
D PARTS



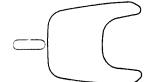
B PARTS



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