df models 3127 Brush Less Buggy Instruction Manual

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df models 3127 Brush Less Buggy

Product Information

Specifications

- Model: RC-Car RTR
- Remote Control: 2.4 GHz
- Battery: LiPo 7.4 Volt – 1500 mAh
- Charger: USB

Product Usage Instructions

- To power the transmitter, open the battery compartment and insert 4x AAA batteries.
- Ensure correct polarity and close the compartment securely. If not using the model for an extended period, remove the batteries.

Dual Rate Function

- The dual rate feature allows you to adjust the maximum speed of the model by turning the potentiometer.
- Note that reducing speed will also impact braking and reverse functions.

Battery Indicator

- The battery indicator illuminates when the batteries are full.
- Replace non-rechargeable batteries when the indicator starts flashing to avoid power loss.

Safety Precautions

- Do not alter the receiver antenna's length.
- Cease use if the antenna is damaged to prevent malfunctions.
- Disconnect the battery when the model is not in use.

Battery Charging

- To charge the LiPo battery, use the provided USB charger following the manufacturer's instructions.

- Avoid using rechargeable batteries in the transmitter.

Introduction

- Congratulations on your purchase of a product from DF Models | MALi Racing.
- All products are carefully checked for completeness and function to ensure that the product is free of manufacturing and material defects.
- The product is EMC-tested and meets the requirements of the applicable European and national directives.
- Due to constant further development and improvement of our products, we reserve the right to make technical changes and changes in equipment and design without prior notice.
- Therefore, no claims can be made on the basis of minor deviations of the product you have from the data and illustrations in these instructions.
- The responsible handling of the product is for your own safety and the safety of persons not involved.
- Please observe the safety instructions in this manual. Subject to technical and colour changes.

warranty/guarantee conditions

The operating instructions for this product are a fundamental part of the product, as failure to observe the information contained therein on handling and operation, as well as failure to observe the safety instructions, will void the warranty/guarantee.
Therefore, keep the operating instructions in a safe place, in case the product is passed on to third parties. For consumers, the warranty period is 24 months. Unless otherwise provided by law, the warranty/guarantee is limited to repair with costs up to the amount of the purchase price, replacement of the product with an equivalent one or refund of the purchase price. A different assertion of other claims from country to country is conceivable.
The term of the warranty/guarantee remains unaffected by a repair and/or the replacement of parts. We reserve the right to use reconditioned or new parts. Services and repairs after the expiry of the warranty/guarantee period are always subject to a charge. The warranty/guarantee covers manufacturing and material defects and defects during normal use. Mechanically stressed parts are not covered by warranty. We assume no liability for consequential damage!

Excluded from the warranty/guarantee are:

- Damage due to non-observance of the safety instructions or the operating instructions
- force majeure, pile-ups, incorrect handling
- extraordinary stress or external influence
- unauthorized modifications or repairs carried out by unauthorized parties
- damage caused by loss of control over the model
- lightning strike or other influence of high voltage or current
- wearing parts, mechanically stressed parts and normal wear and tear, optical impairments
- Transport, shipping or insurance costs
- Costs for the proper disposal of the product and setup/restart work performed by the service department

Safety Instructions

Handle this product responsibly

- As the manufacturer and distributor of the product, we have no direct influence on the correct handling and operation of the product.

- The following safety instructions are intended to protect you and your environment from damage that may result from improper use.
- However, the product itself and your model are also to be protected against damage by the corresponding instructions.
- Therefore, read this chapter carefully before operating the product! We accept no liability for damage to property or personal injury caused by failure to observe the operating instructions or failure to follow the safety instructions.
- In such cases, the warranty/guarantee also expires.
- We accept no liability for consequential damage! Not suitable for children under 36 months.
- Contains small parts – choking hazard! The product is only suitable for children under 14 years of age under the direct supervision of an adult.
- Dispose of the packaging material properly, as this could become a hazard for children.

Before starting

- Check with your insurance company whether the operation of a radio-controlled model is covered by insurance (liability insurance).
- If you have no experience in controlling RC models, first familiarize yourself with the reactions to the control commands on the stationary model.
- If necessary, contact an experienced modeler or a model club. Seek the assistance of an experienced pilot/driver if necessary.
- Check the radio control system and the model for functional reliability and visible damage, such as defective plug connections or damaged cables, before starting operation.
- All moving parts must function smoothly, but without bearing play.
- Check all screw and plug connections, wheel nuts and electrical contacts for tight fit, as these can become loose or detached during transport, while driving or in minor accidents.
- Fasten excess lengths of cables so that they cannot get caught in moving/rotating parts.
- Cables must not be kinked. Make sure that all batteries are fully charged and not damaged.

Driving/ flying

- Do not drive/fly if your ability to react is impaired (e.g. if you are tired, under the influence of medication or alcohol).
- Incorrect reactions can cause serious personal injury and property damage. Do not drive/fly if you have even the slightest doubt about the perfect technical condition of your model/remote control system.
- Always maintain direct visual contact with the model. Only operate the model on private property or on sites designated for this purpose.
- Observe the requirements and regulations for the terrain.
- When operating a model, always ensure that no parts of the body or objects are in the danger zone of motors or rotating parts. of motors or rotating parts.
- Regularly check all screw connections and fasteners, as they may become loose or loosen during operation.
- Immediately stop operating your model in the event of a malfunction and eliminate the cause of the malfunction before continuing to use the model.
- Avoid driving/ flying in low outdoor temperatures, as this reduces battery capacity and causes the model’s

plastic to lose elasticity and splinter easily.

- Do not expose your model and the remote control system to direct sunlight, moisture, heavy soiling or great heat/cold for long periods of time.
- Do not drive in crowds, towards people or animals, in nature reserves, at night, under high voltage power lines, radio masts or during thunderstorms.
- Electric fields and atmospheric disturbances can affect the signals of your remote control transmitter, in rain or in damp terrain, otherwise, the electrical system will be damaged.
- Note that RC models must not be operated on terrain with public passenger and motor traffic.

Intended use

- The product is designed exclusively for private use in the model-building sector and for the associated operating times.
- This product is not approved for commercial or industrial use or for continuous operation.
- Improper use may endanger persons as well as damage the product and the associated dangers, such as loss of control over the model, short-circuit, fire, electric shock, etc.
- Observe the safety instructions in this operating manual. These contain important information on how to handle the product. The product is suitable for children under 14 years of age only under adult supervision.

Scope of delivery

- RC-Car RTR
- 2.4 GHz remote control
- LiPo battery 7.4 Volt – 1500 mAh
- USB charger
- Manual

Required accessories:

- 4x AAA batteries (dont use rechargeable batteries)

www.df-models.com

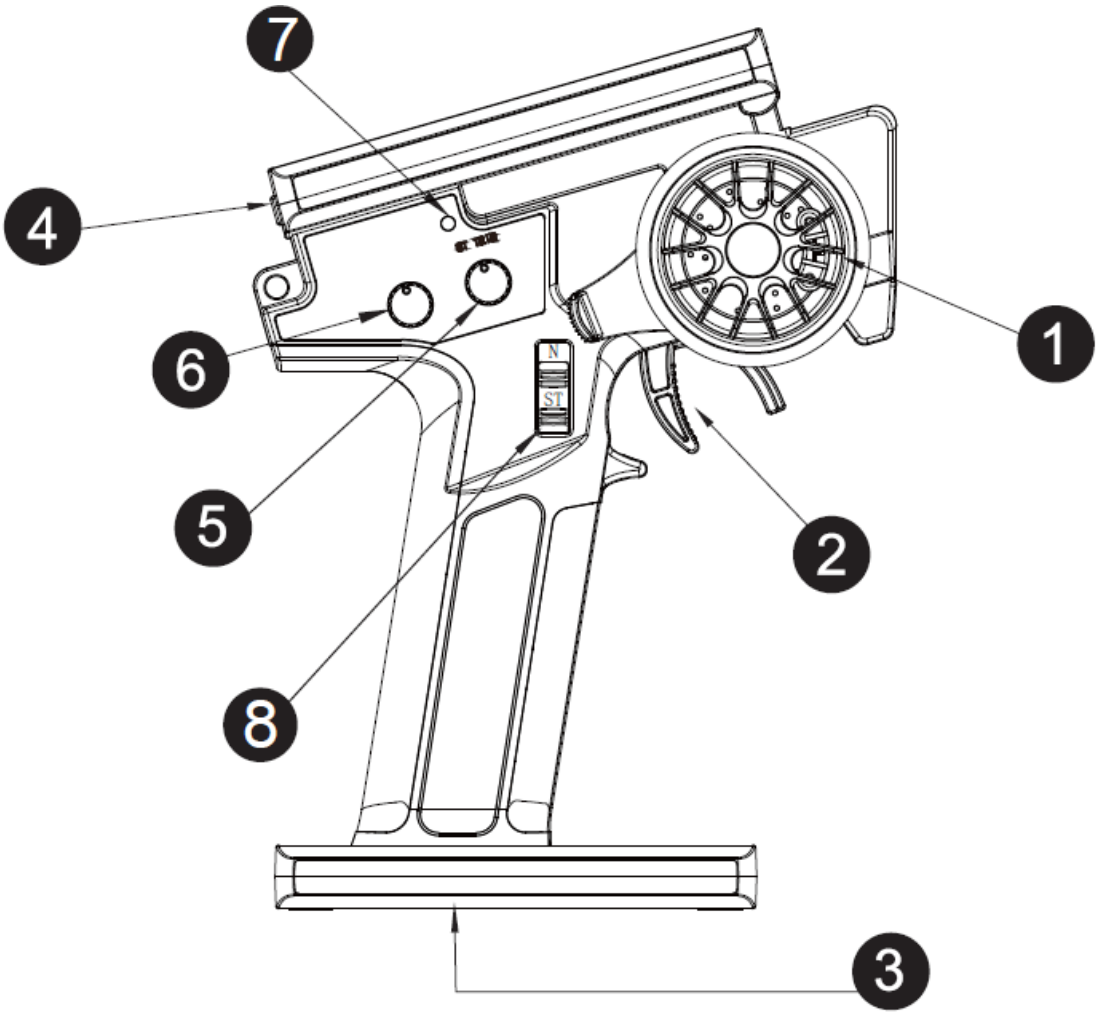
- Subject to changes, errors, technical details, etc.
- It may well happen that some parts are changed or new spare parts (number) are available.
- To be on the safe side, please always check our website (download area) for updated instructions (the latest version is always online).

Remote control

Inserting the transmitter batteries:

Open the battery compartment (3). Insert batteries (4x AAA) (not included in delivery, do NOT use rechargeable batteries!), pay attention to correct polarity! Close the battery compartment again. If the model is not used for a longer period of time, remove the batteries from the transmitter!

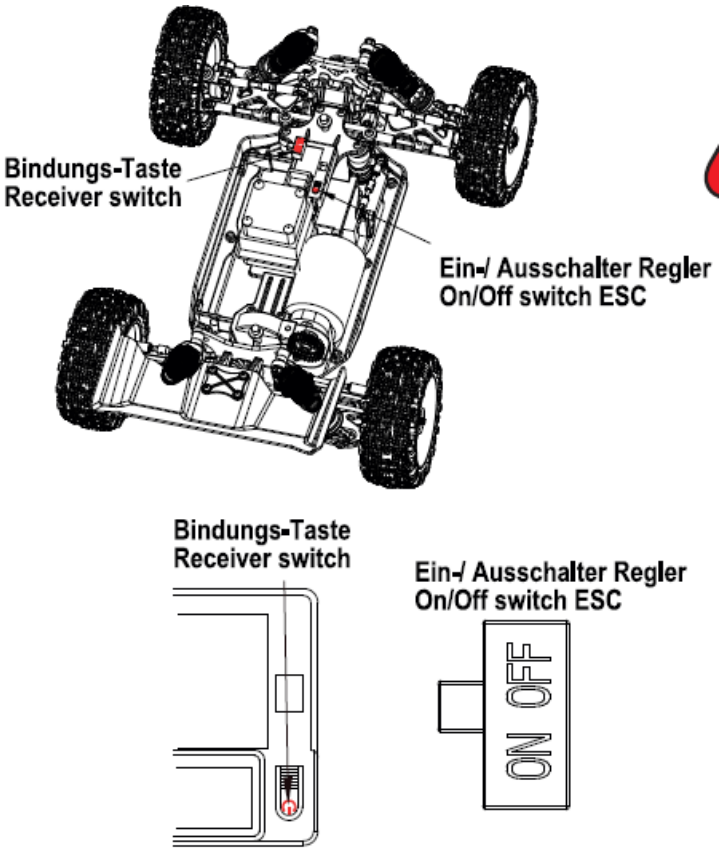
1. Steering wheel
2. Throttle lever
3. Battery compartment
4. On/off switch
5. Steering trim
6. Throttle dual rate
7. Power LED
8. Servo reverse



The dual rate allows you to reduce the maximum speed of the model. The maximum speed is increased or reduced by turning the potentiometer. Please note that the braking effect is reduced when the maximum speed is reduced and the reverse function is also reduced.

Receiver

- Never extend or shorten the receiver antenna!
- Do not continue to use the receiver if the antenna is damaged! This can lead to malfunctions and accidents!

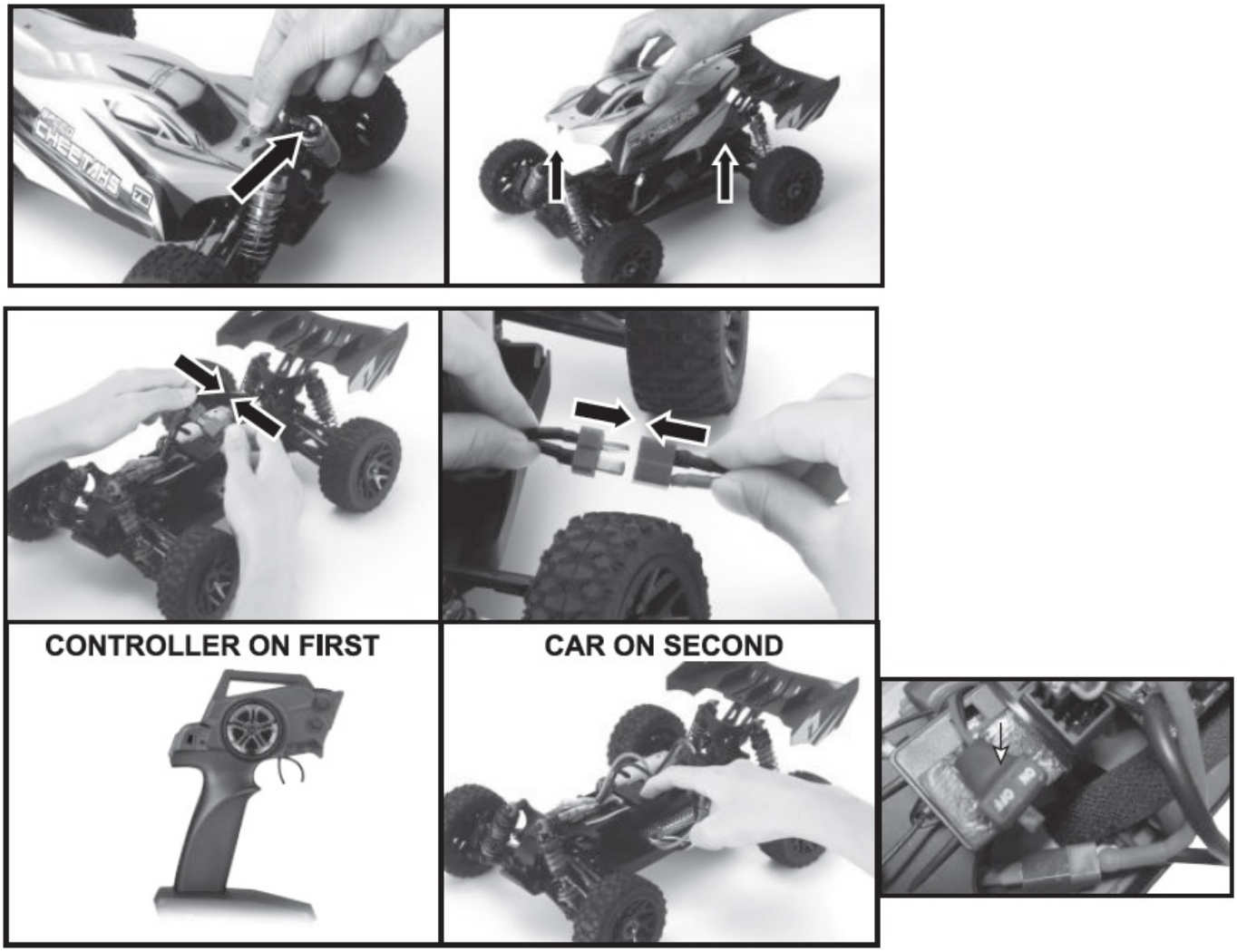


If you use a new receiver/transmitter, or if the remote control loses the binding to the receiver
(The model does not respond to control commands), You must create a new “binding” between the transmitter and receiver.
Proceed as follows:

- Switch on the transmitter – press and hold the receiver’s bind button while switching on the model/controller – release the bind button and turn the steering wheel of the remote control in any direction.
- Check the function of the servo and the range of the model. If the model does not respond correctly, repeat the procedure.

Get Started

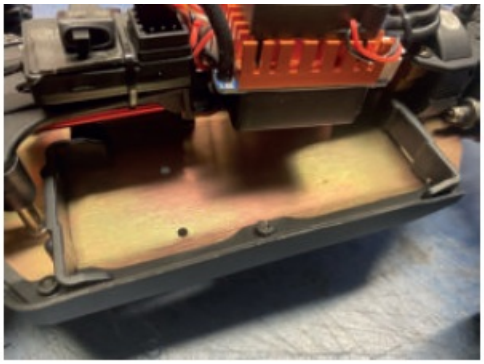
- To remove/insert the battery or switch the model on/off, you must remove the body.
- Remove the body clips and lift the body off the vehicle.
- Connect the battery to the speed control (make sure it is correctly plugged).
- Always switch on the remote control first and then the model (controller).
- When switching off, proceed in reverse order. If the model is not being operated, ALWAYS disconnect the battery and remove it from the model!
- If the model slows down considerably or stops (no more drive, but steering works), stop driving immediately and recharge the battery (DO NOT switch on/off and continue driving, this will destroy the battery!)



Insert Battery

- The drive battery of your model is located under the body in the battery compartment.
- Remove the split pin from the bodywork and remove it.
- Now connect the battery to the controller (red plug).
- The model’s on/off switch is located on the upper deck of the model.
- When the model is not in use, always disconnect the battery and remove it from the model!

HopUp Tuning



- To use the 6962 / 6960 batteries, the battery holder must be modified. The holes are already drilled in the chassis.
- The battery 6960 can NOT be charged with the USB charging cable supplied with the model, you need a 3S LiPo charger for this.

- The driving time is longer with the 6962 battery, the 6960 battery provides more power (top speed). The speed controller automatically recognizes which battery is connected; no settings need to be made here.

Charge battery

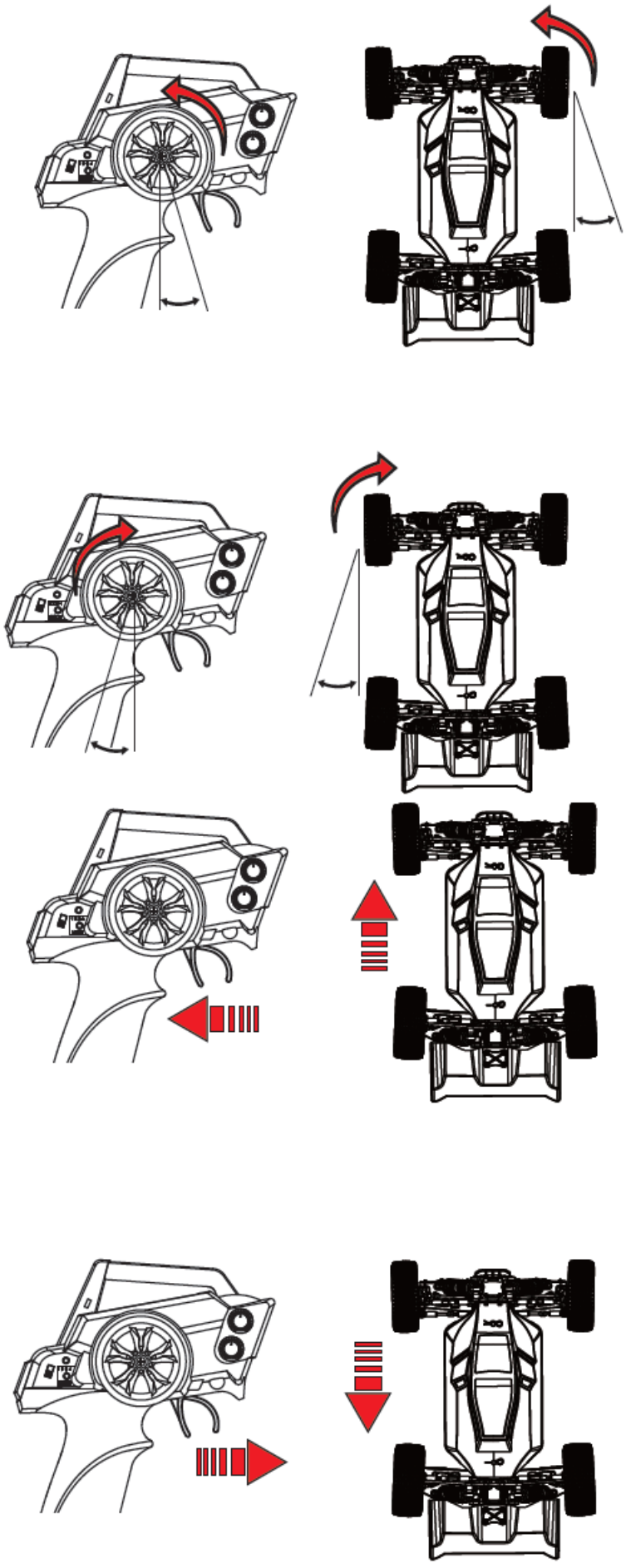
ALWAYS charge the battery outside the model to avoid overheating during the charging process. Always use a fireproof surface! Never disconnect the plug connection by pulling on the cables; always pull on the plug.

- Connect the charger (USB) to a suitable power supply (5 Volt – 1-2.5A)
  (USB power supply unit, cell phone adapter | not included). The red LED flashes.
- Now connect the battery to the USB charging cable (white plug).
- The LED lights up red, the battery is charging.
- The LED goes out when the battery is connected, and the battery is fully charged.
- Disconnect the battery from the USB charging cable. Disconnect the USB power supply unit from the power supply.
- Maximum charging time approx. 1-4 hours (depending on the output power of the USB power supply unit).
- NEVER charge unattended (e.g. “overnight”)! ALWAYS charge on a fireproof surface!
- Observe the safety regulations!

- Never leave the charging cable/cord coiled up, this can lead to overheating!
- When the model is not in use ALWAYS disconnect the battery and remove it from the model!

Driving

- Always turn on the remote control first and then the model.
- After driving, first turn off the model and remove the battery from it, then turn off the transmitter.
- Turning the steering wheel to the left/right steers the model to the left/right.
- Pulling the throttle in the direction of the handle accelerates the model (moves forward). By pushing away from the handle, the model brakes. To drive backwards, you have to press the lever 2x (press-release-press again).
- The speed is infinitely variable (the further you pull or push the lever, the faster or slower the model moves).



Regular Check Maintenance

The model is already assembled ready to drive and can be put into operation directly after inserting the transmitter batteries (not included) and the drive battery. The drive and control components are mounted and wired, the

binding between transmitter and receiver is automatic. However, you should check all screw connections for tightness before the first ride. Replace defective parts immediately and clean the model from dirt and dust.

- Also check the following points regularly:
- Are the wheel nuts and screw connections tight?
- Is the servo control lever firmly seated on the servo shaft? Is the drive battery charged and fixed in the holder?
- Are the rotating and moving parts running smoothly?
- Are the cables routed and secured so that they do not get caught in moving parts? Is the range of the transmitter sufficient?

Disclaimer

- Since we (DF Models) cannot monitor your handling of the battery, any liability and warranty for incorrect handling, charging/discharging, damage, etc. is expressly excluded.

Extinguishing agent

- In case of fire of batteries/accumulators, never extinguish with water! Only use dry extinguishing agents to smother the flames (e.g. sand).
- Carbon dioxide or extinguishing powder/foam are also suitable for fire fighting. The use of a fire extinguisher with AVD extinguishing agent is particularly recommended.

Danger safety instructions

- Always keep batteries/ rechargeable batteries out of the reach of children and pets.
- Leaking or damaged batteries/accumulators can cause burns on contact. If skin or eyes come into contact with the electrolyte, immediately rinse the area thoroughly with clean water and seek medical attention immediately. Use suitable protective gloves when disposing of the defective battery.
- If you notice any abnormalities such as odor, discoloration, excessive heating or deformation of the battery, disconnect the battery from the charger or consumer immediately. Dispose of the batteries/accumulator properly (take to a collection point, DO NOT dispose of in household waste!).
- Batteries must not get damp or wet. Avoid the formation of condensation.
- Never dispose of batteries/ rechargeable batteries in a fire.

- Never expose the batteries/ rechargeable batteries to adverse ambient conditions (e.g. wetness, excessively high or low ambient temperature, direct sunlight, ignition sources or open fire, dust, vapors, solvents).
- Avoid heavy soiling and excessive mechanical stress on the battery.
- Never modify batteries/ rechargeable batteries structurally, never solder directly to batteries/ rechargeable batteries.
- Never tug at the connection cables.
- Never open batteries/ rechargeable batteries by force.
- Never mix batteries and rechargeable batteries in one device at the same time.
- Always use batteries/ rechargeable batteries of the same type and manufacturer.
- When inserting batteries/ rechargeable batteries into the battery holder, ensure that the polarity is correct. If the polarity is incorrect, not only your model but also the battery/accumulator will be damaged.
- Batteries/ rechargeable batteries must never be short-circuited, damaged, disassembled or thrown into open fire. There is a risk of fire and explosion.
- Immediately disconnect the battery from the charger/ consumer if it becomes very hot.
- Only charge rechargeable batteries with suitable chargers.
- Always charge batteries on a non-flammable surface.
- Never charge/use rechargeable batteries near flammable materials.
- Never charge/use batteries without supervision.
- Never charge the rechargeable batteries in a model, vehicle/caravan, etc.
- Never charge or use batteries with reverse polarity.
- Do not charge batteries that are overcooled or overheated.
- Do not charge/use batteries in locations subject to high static discharge.
- If the model is not used for a longer period of time, remove the inserted batteries from the remote control and from the model to avoid damage due to leaking / deep discharged batteries.
- Conventional alkaline batteries (1.5 volts) are intended for single use only and must be disposed of properly afterwards. Dispose of empty batteries or defective rechargeable batteries in an environmentally friendly manner via authorized collection points. Alkaline batteries must NOT be recharged, there is a risk of fire/explosion.
- Disposing of batteries/battery packs in the household waste is prohibited.
- In case of fire, never extinguish batteries with water (see Extinguishing media).
- Incorrect handling of batteries/ rechargeable batteries can lead to explosions/fire.

Waste management

- Batteries / rechargeable batteries must never be disposed of in household waste!
- Batteries/rechargeable batteries can be handed in at public collection points in your community.
- Batteries/ accumulators can also be handed in at all sales points for batteries/ accumulators.
- Please make sure that batteries are not short-circuited (secure with tape if necessary).
- DF Models is registered under the WEEE Reg. No. DE30915550 at the EAR foundation and recycles all used electronic components properly.
- Betterier registration: DE69664807.
- Batteries/rechargeable batteries are marked with the symbol shown below (waste garbage cans).
- This indicates that disposal in household waste is prohibited. Additional designations for the decisive heavy

metals are: Cd=cadmium, Hg=mercury, Pb=lead.

Storage

- Batteries should not be empty or fully charged during longer storage. A state of charge of approx. 80 % of the rechargeable batteries is ideal.
- The state of charge should be checked and adjusted at regular intervals.
- Always store batteries safely in a non-flammable place (e.g. use LiPo bag, etc.). Store and keep at room temperature (approx. 15-22°C).

Recharge

- Batteries may only be charged with suitable chargers. For Lixx batteries, only charge with chargers with a connected/integrated balancer! LiPo batteries have a final charging voltage of 4.2 volts/cell, and NiMH batteries of 1.45 volts/cell.
- Accus should be charged with a charge rate of 1 C, higher charge rates can shorten the life of the battery.
- Charge rate: capacity x C-rate = charge current (example with 1C charge rate: battery with 1000mAh x 1C charge rate = 1000mAh (1 A) charge current)
- Maximum temperatures when charging batteries: LiPo max. 45°C | NiMH max. 60°C

Discharge

- LiPo batteries have a final discharge voltage of 3.2 volts/cell, NiMH batteries of 0.9-1 volts/cell. These values must not fall below, otherwise the batteries will be irreparably damaged (risk of explosion/fire).
- Discharge rate: The discharge rate specifies the value with which the rechargeable battery may be loaded during discharge. Higher values lead to irreparable damage (explosion/fire hazard). For LiPo batteries, the C-value is usually visibly indicated on the battery. DF-Models NiMH battery packs (7.2-volt racing stick packs) have a C-rate of 10-15C. Batteries can be discharged/loaded constantly with the indicated value, briefly with the double C-value (max. 3 seconds).
- Capacity value x C-rate = discharge current (Example: Battery with 25C (discharge rate) and 1000mAh | 25C x 1000mAh (1A) = 25A discharge current (duration)
- Maximum temperatures when discharging batteries: LiPo max. 60°C | NiMH max. 60°C

Temperatures

- Batteries are very sensitive to temperature. At temperatures below 15°C as well as above 35°C, the removable capacity is significantly lower than in the optimum temperature range of approx. 15-35°C. Temperatures below 0°C can cause damage to the battery.

- Maximum temperatures when charging batteries: LiPo max. 45°C | NiMH max. 60°C
- Maximum temperatures when discharging batteries: LiPo max. 60°C | NiMH max. 60°C

Declaration of Conformity

- Declaration of Conformity in accordance with the Radio Equipment Directive (RED) 2014/53/EU
- I hereby declare that the product: BL06 Brushless RC-Buggy
- Product number: 3127 (EAN: 4250684131279)

Complies with the essential requirements and the other relevant provisions of the Directive (RED) 2014/53/EU, when used for it intended purpose.
Manufactured in accordance with the following harmonised standards:

- ETSI EN 301 489-1 V2.2.3 (2019-11)
- ETSI EN 301 489-3 V2.1.1 (2019-03)
- EN 62479: 2010
- EN 50663:2017
- EN 300 440 V2.2.1 (2018-07)
- EN 71- 1: 2014 + A1: 2018 Mechanical and Physical properties
- EN 71- 2: 2011 + A1: 2014 Flammability of Toys
- Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission
- Directive (EU)2018/725, (EU)2019/1922
- EN 71-3:2019 Migration of certain elements
- EC 1907 2006; EN IEC 62115:2020+A11:2020
- Entry 51 & entry 52, annex XVII European regulation (EC) No.1907/2006 (REACH) with amendment No.552/2009 & No 2015/326 & No. 2018/2005

Frequency Range: 2407 MHz to 2478 MHz
Measurement Data
Maximum Emissions Level

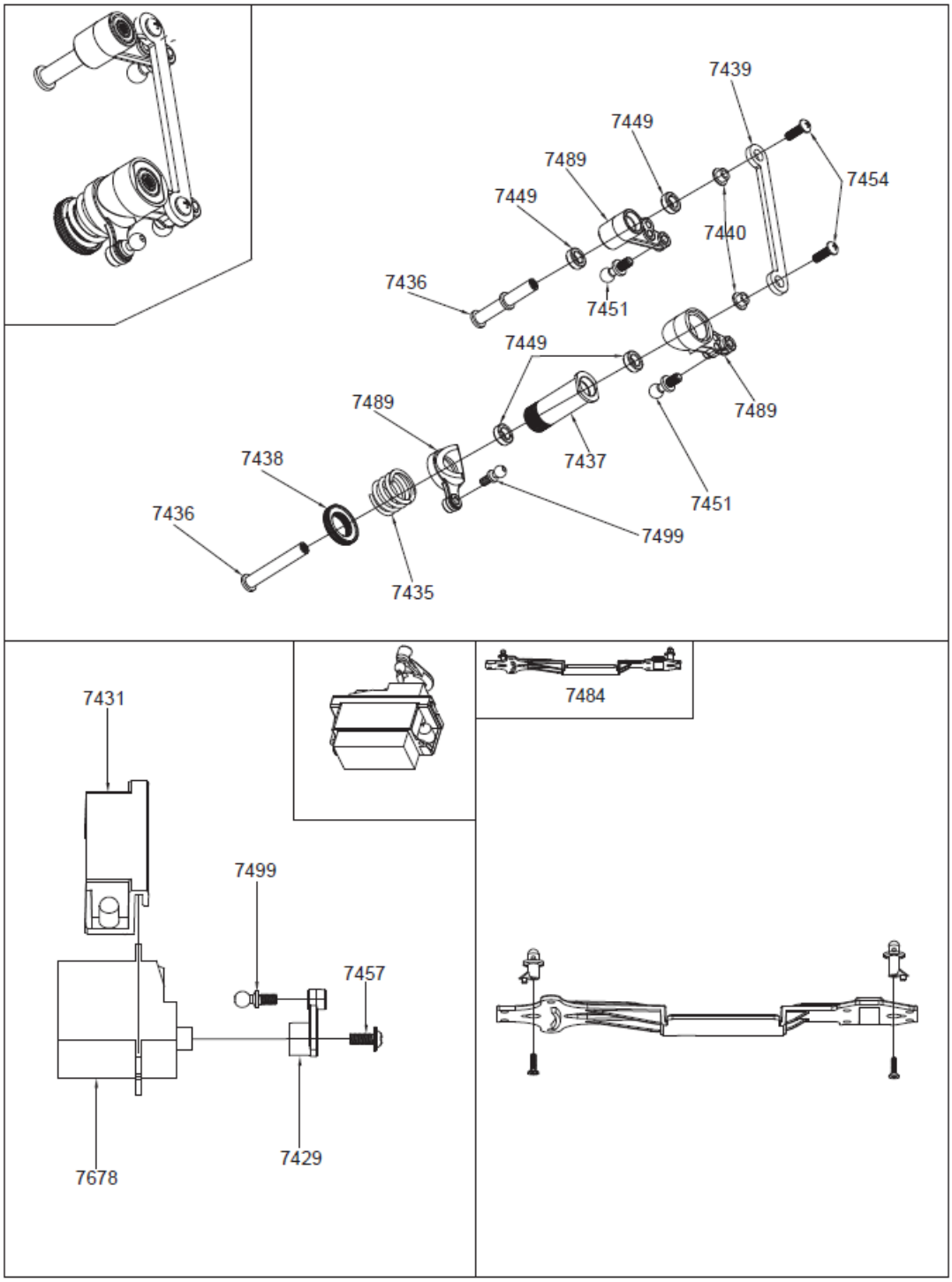
Frequency (MHz)	**EIRP Uevel (dBm)**	**EIRP Uevel (mW)**	**Uimit (mW)**
2407	0.57	1.14	20
2442	1.07	1.28	20
2478	1.50	1.41	20

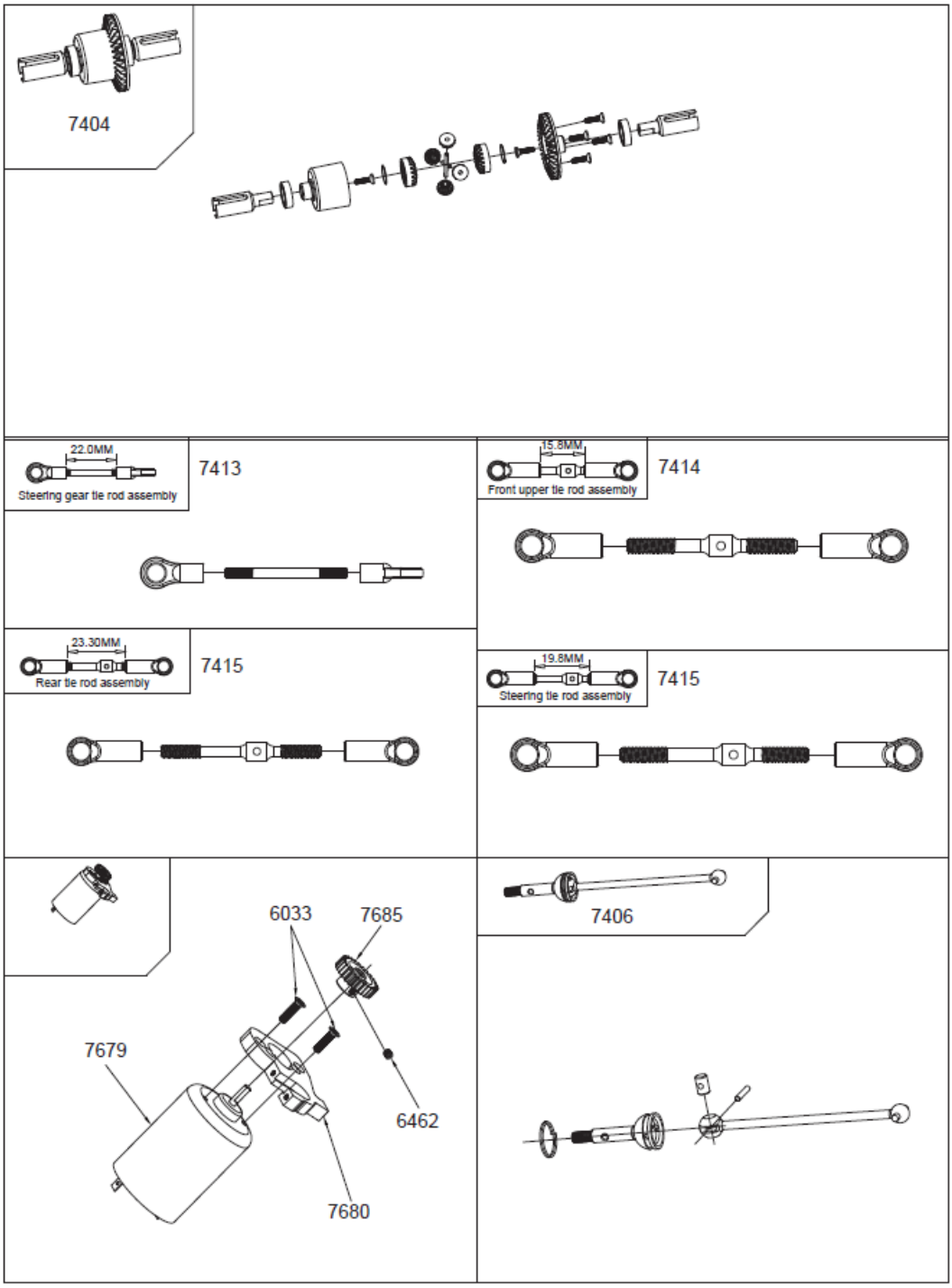
The EIRP of the EUT is below the max permitted sending level of 20 mW, and then the EUT is not need to conduct SAR measurement.

Hersteller / verantwortliche Person: **drive & fly models, Jürgen Kamm**
Manufacturer / responsible Person: **Drahthammer Str. 22**
Fabricant / personne responsable: **92224 Amberg, Germany**

Jürgen Kamm
Geschäftsführer */ managing director / directeur général*
Ort/ Datum:
place of issue/ date: **Amberg (Germany), 08.08.2022**
Lieu de dèlivrance/ Date:

Installation Instructions




7404
22.0MM
Steering gear tie rod assembly
7413
15.8MM
Front upper tie rod assembly
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23.30MM
Rear tie rod assembly
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19.8MM
Steering tie rod assembly
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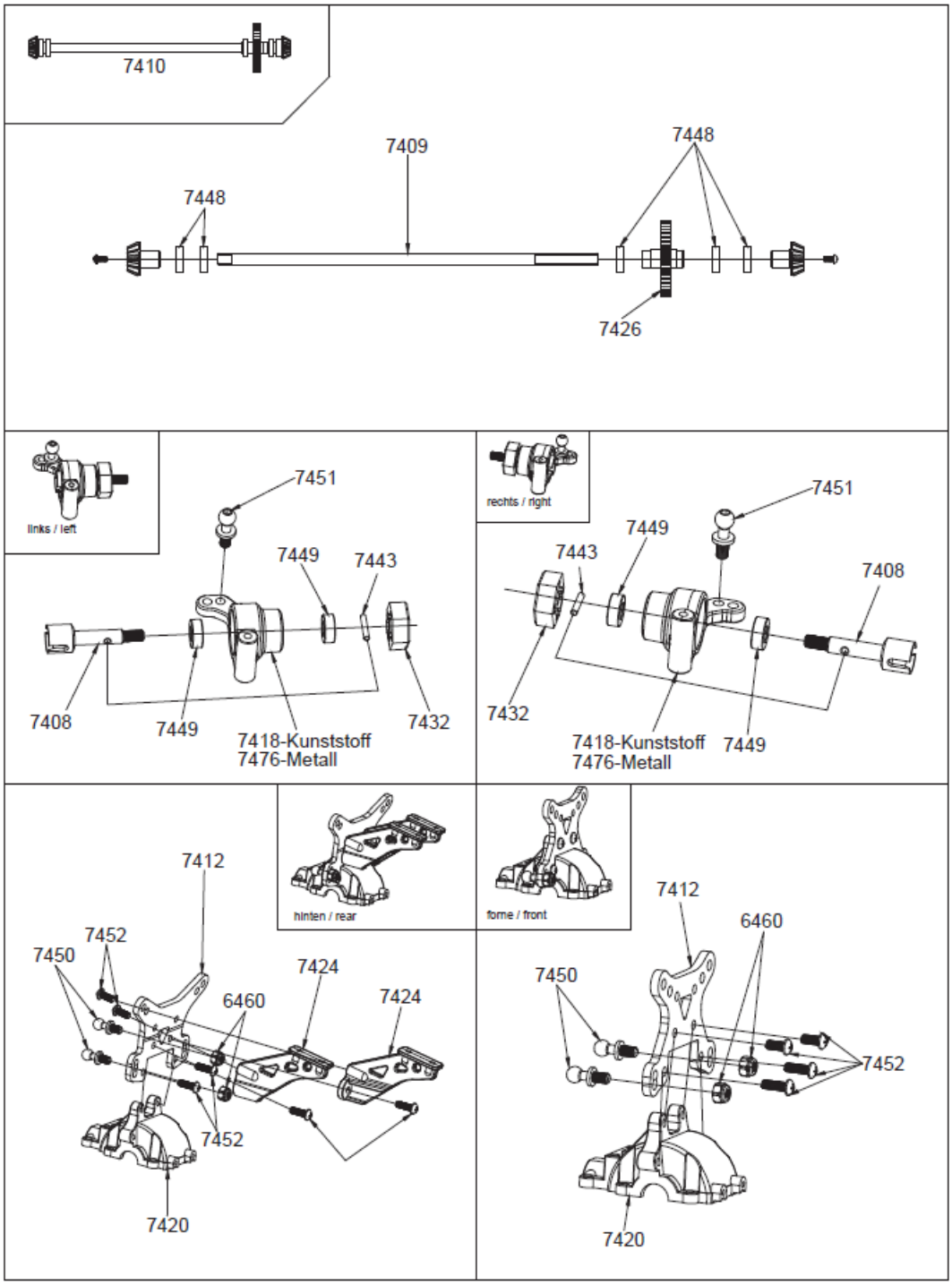
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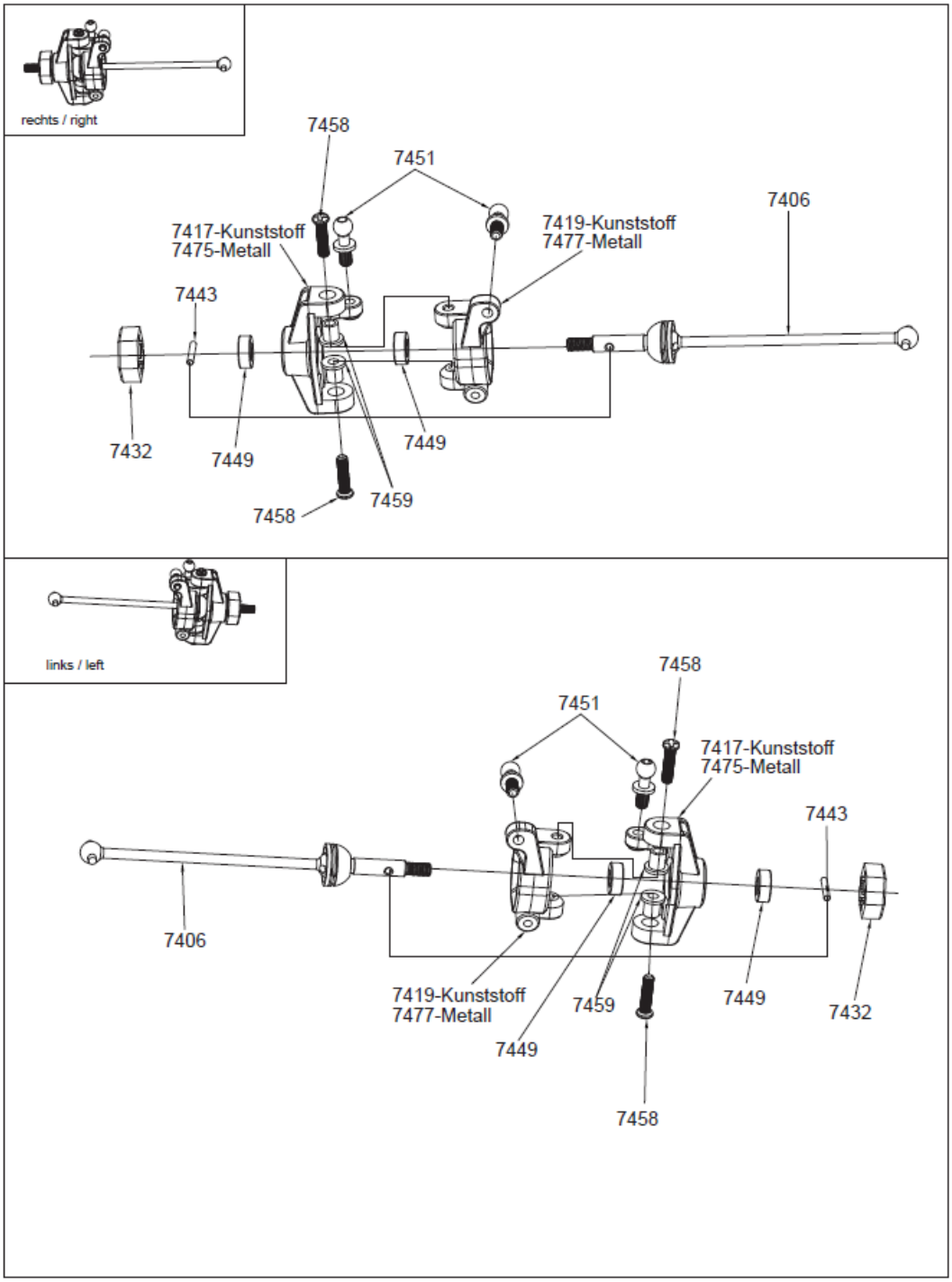
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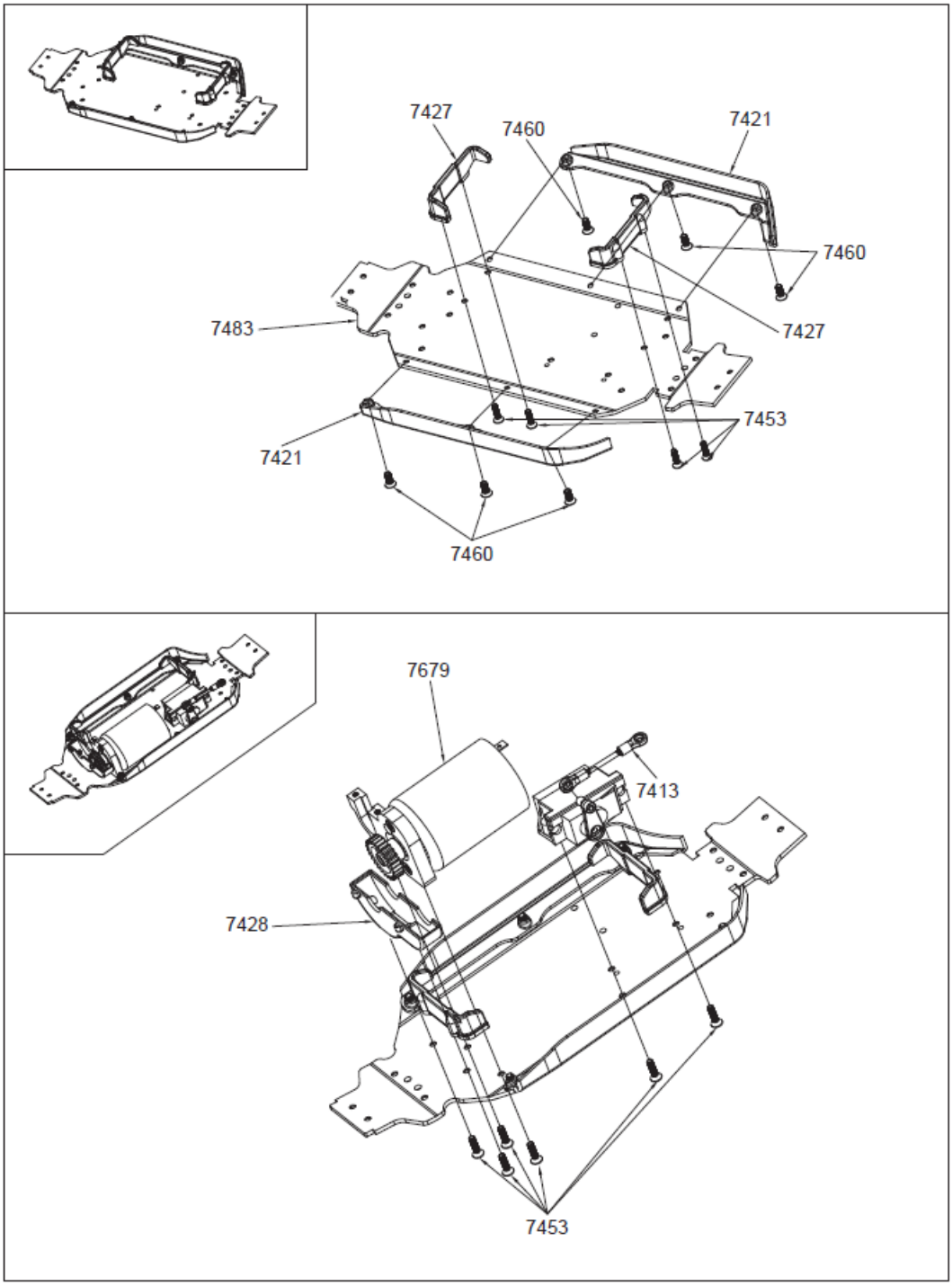
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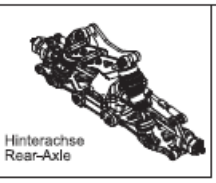
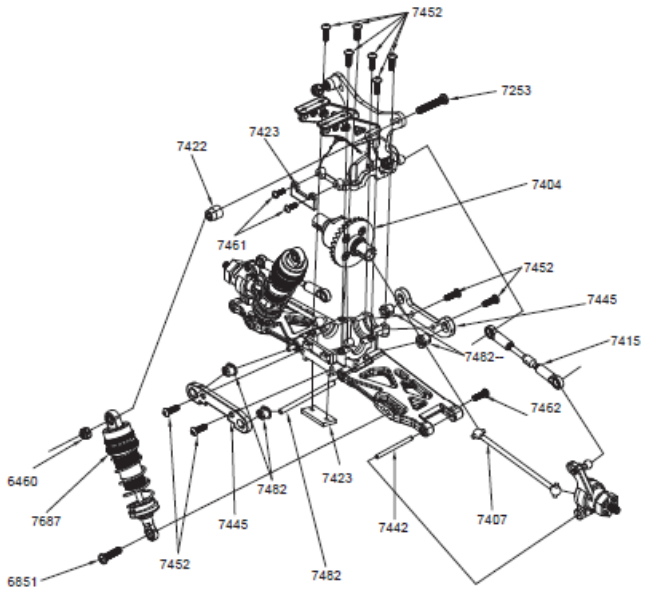
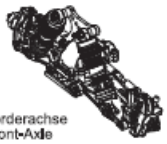
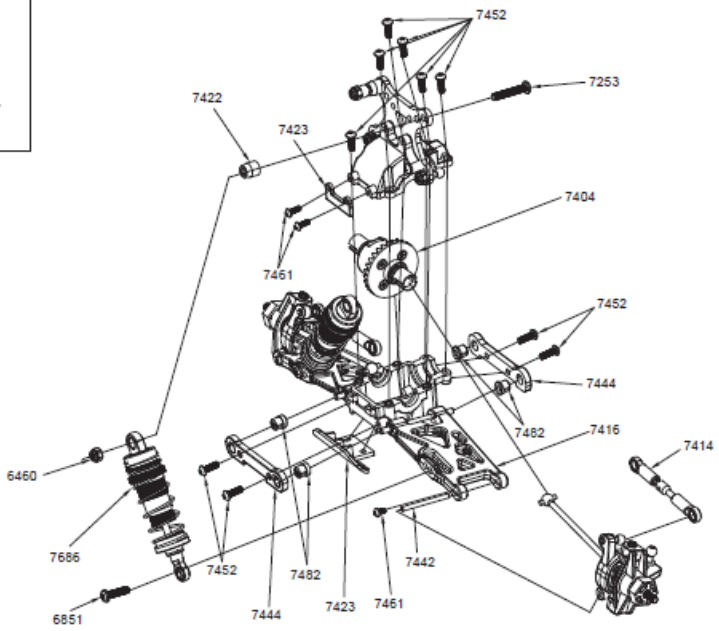


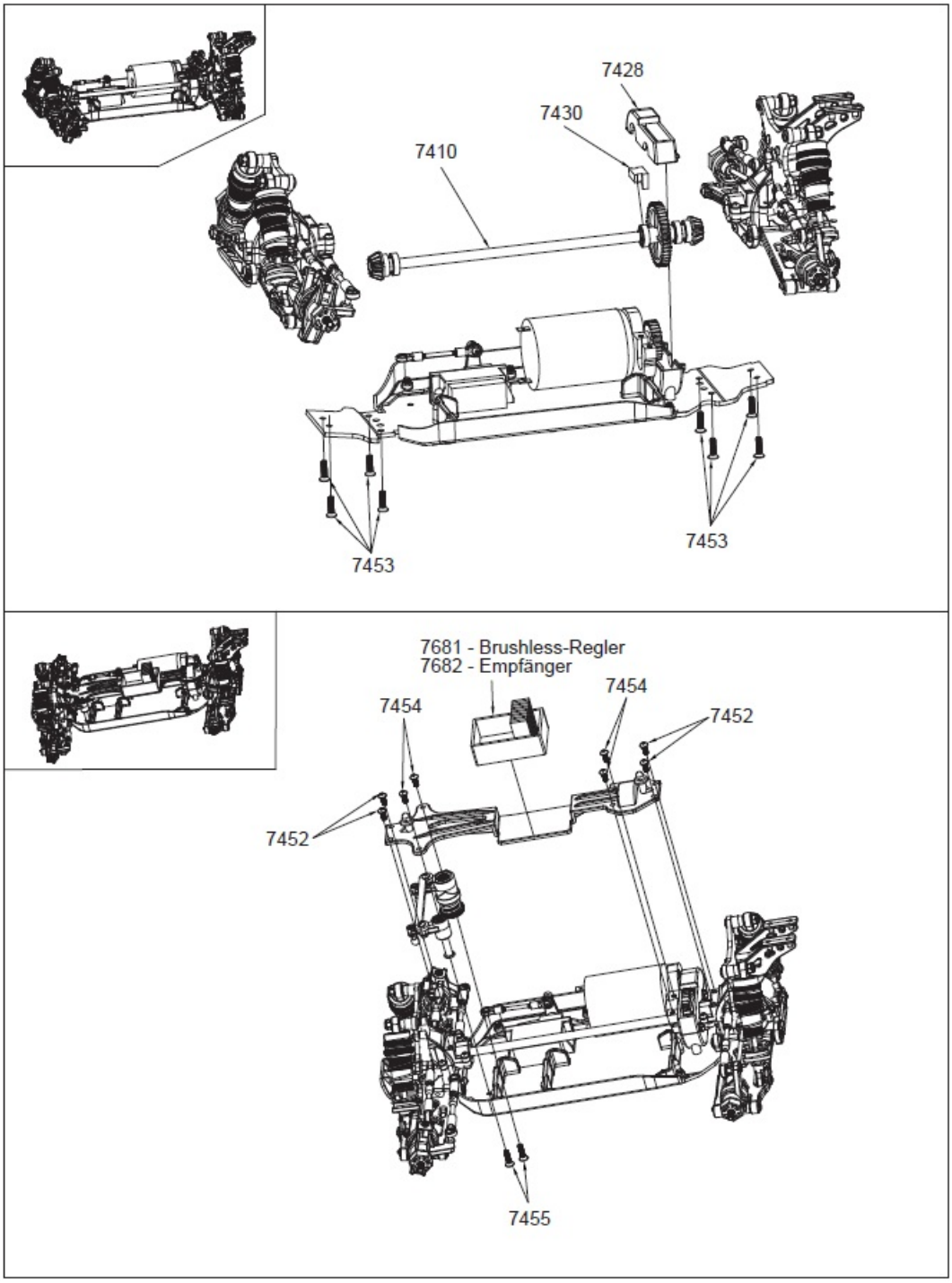
Hinterachse
Rear-Axle





Vorderachse
Front-Axle

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7681 - Brushless-Regler
7682 - Empfänger
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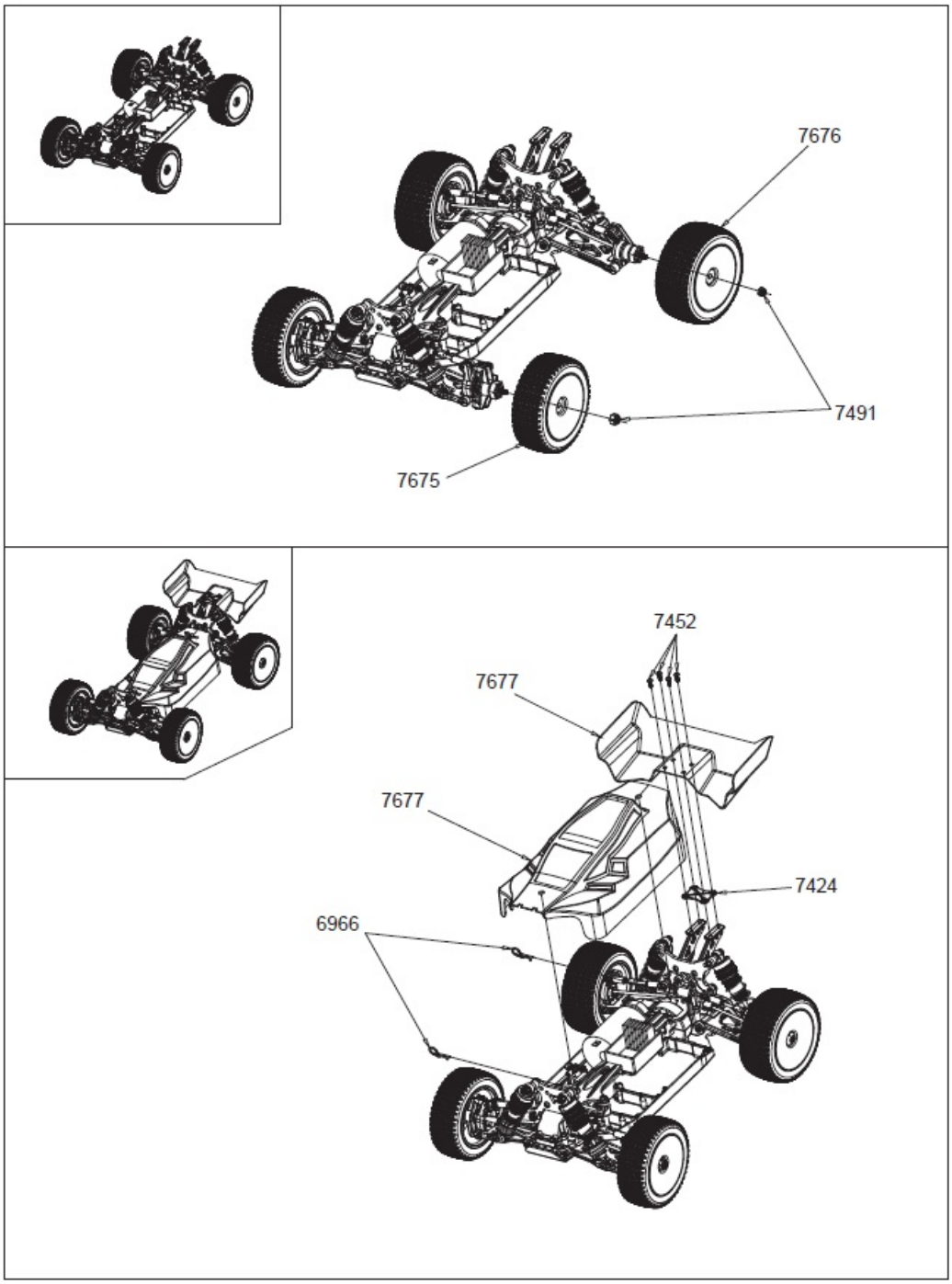
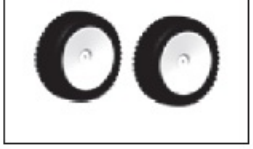
7452
7455



Parts

7675 / 7676

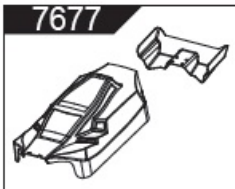


7675 - Reifen vorne (2)
7676 - Reifen hiten (2)

7686 / 7687

7686 - Stoßdämpfer vorne (1)
7687 - Stoßdämpfer hinten (1)

7677



Karosserie + Spoiler

7403

7403 - Chassis

7404

Differential vorne oder hinten

7491

Stoppmuttern M3
mit Flanke (4)

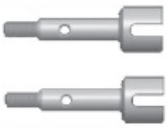
7406

CVD Antriebswelle vorne (1)

7407

Antriebswellen hinten (2)

7408



Radachsen hinten (2)

7409

Mittelkardanwelle

7410

Mittelkardanwelle komplett
Wellen-Farbe: rot

7680

Motorhalterung

7412

Dämpferbrücken vorne +
hinten (2)

7413

Sevo Lenkstange

7447

Akkuhalteband

7684

Federteller für Dämpfer (4)

7416

Querlenker unten vorne/
hinten (je 2)

7417 / 7475

Lenkhebel vorne (2)
7417 - Kunststoff
7475 - Metall

7418 / 7476

Radträger hinten (2)
7418 - Kunststoff
7476 - Metall

7419 / 7477

C-Hubs vorne (2)
7419 - Kunststoff
7477 - Metall

7420

Differnetialgehäuse vorne oder hinten

7421

Chassis Seitenteile (2)

7422

Dämpferlager (4)

7423

Frontrammer

7424

Spoilerbefestigung

7425

Chassisoberdeck + Karosse-riehalterungen

7426

Hauptzahnrad

7427

Akkuhalterungen

7428

Getriebegehäuse

7429

Servohebel

7430

Lagerhalterung

7431

Servohalterung

7432

Radmitnehmer (4)

7482

Querlenkerpins innen (4)

7434

Servosaver Kunststoffteile

7435

Servosaver Feder

7436

Servosaver Haltepfosten (2)

7437

Servosaver Einstellhülse

7438

Servosaver Rändelschraube

7439

Ackermannstrebe

7440

Distanzbuchsen (4)

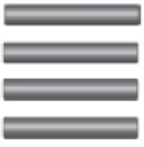
7499

Kugelköpfe 4x9,5 (4)

7442

Querlenkerpins aussen (4)

7443



Radmitnehmerpins (4)

7444

Querlenkerhalterung vorne

7445

Querlenkerhalterung hinten

7685

Motorritzel 19 T.

7414

Querlenker vorne oben (2)
Metall R/L Stangen

7448

Kugellager 7x11x3 (4)

7449

Kugellager 4x7x1.8 (4)

7450

Kugelköpfe M3-4.9x13.6 (4)

7451

Kugelköpfe M3-4.9x10.6 (10)

7452

Schneidschrauben 2.6x8 (10)

7453

Senkkopfschneidschrauben
2.6x8 (10)

7454

Tellerkopfschrauben
M2.5x6 (8)

7455

Senkkopfschrauben
M2.5x6 (8)

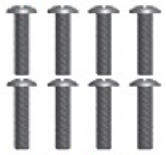
6966

Karosserie-Klammern (8)

7457

Schneidschrauben 2.6x6 (10)

7458



Linsenkopfschrauben
M2.5x10 (8)

7459

Distanzbuchsen (4)

CONTACT

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- Service-Telefon: +49 (0) 9621 782 293

FAQ

- **Q: What should I do if the battery indicator starts flashing?**
  - **A:** Replace the batteries with new non-rechargeable ones to ensure uninterrupted operation.
- **Q: Where is the on/off switch located?**
  - **A:** The model's on/off switch is situated on the upper deck for easy access.
- **Q: How do I access the drive battery for charging?**
  - **A:** Remove the bodywork by detaching the split pin to reveal the battery compartment under the body. Connect the battery to the controller using the red plug.

Documents / Resources

	df models 3127 Brush Less Buggy [pdf] Instruction Manual 9800820_EN_Manual.pdf, 3127_Manual-2024-1, 3127 Brush Less Buggy, 3127, Brush Less Buggy, Less Buggy

References

- User Manual