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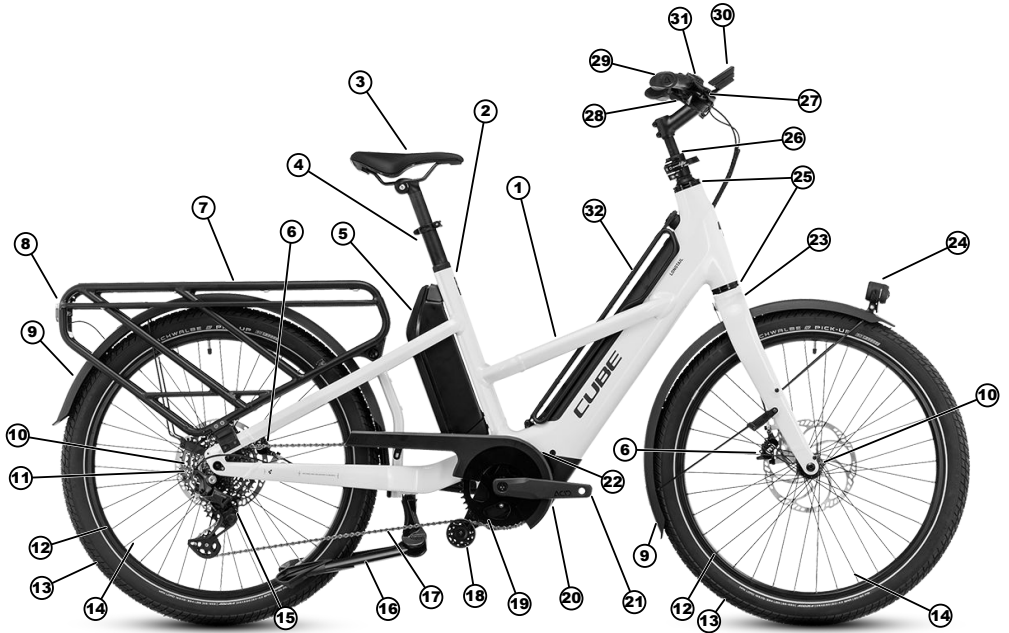
# Operating manual

LONGTAIL HYBRID

# 1 General Information

These supplementary operating instructions are intended to familiarize you with the special features and correct use of your Longtail Hybrid.

If you have any further questions about your Longtail Hybrid or do not understand something, please always contact your **CUBE Specialist Dealer**.



- |    |                 |    |                          |
|----|-----------------|----|--------------------------|
| 1  | Frame           | 17 | Chain                    |
| 2  | Seat clamp      | 18 | Chain guide              |
| 3  | Saddle          | 19 | Chain ring               |
| 4  | Seat post       | 20 | Mid-drive motor          |
| 5  | Battery         | 21 | Crank arm                |
| 6  | Brake           | 22 | Chain guard              |
| 7  | Rear carrier    | 23 | Fork                     |
| 8  | Rear light      | 24 | Headlight                |
| 9  | Mudguard        | 25 | Headset                  |
| 10 | Hub             | 26 | Stem (height adjustable) |
| 11 | Cassette        | 27 | Brake lever              |
| 12 | Rim             | 28 | Shift lever              |
| 13 | Tire            | 29 | Grip                     |
| 14 | Spoke           | 30 | Display                  |
| 15 | Rear Derailleur | 31 | Remote                   |
| 16 | Kickstand       | 32 | Downtube carrier         |

## 2 Permissible total weight



### NOTICE

The permissible total weight is a **fixed, unchangeable value** that must not be exceeded!

On the basis of the specified permissible total vehicle weight **you are responsible for determining the maximum permissible payload** for your Longtail Hybrid.

Please also note the information in *➔ Chapter 3 "Maximum payload" on page 3.*

The **actual total weight** of your Longtail Hybrid, including all influencing factors such as driver weight, payload etc., must be **less than or equal to the permissible total weight** for your Longtail Hybrid.

The following example calculation shows which **influencing factors** must be taken into account for the determination of the actual total weight.

### Example calculation

	tare weight of the <b>Longtail Hybrid</b>
+	body weight of the <b>rider</b> (with clothing)
+	weight of the <b>payload</b> on Carrier
+	weight of additional <b>luggage</b> (e. g. backpack/luggage bags)
+	weight of additional <b>attachments</b> (e. g. Front carrier)
≤	<b>Permissible total weight</b>

The tare weight of your Longtail Hybrid is between **33 and 36 kg** and can be used up to a **maximum permissible total weight** of **200 kg**.



### NOTICE

The information on the **max. permissible total weight** and the **tare weight (unladen weight)** of your bike can be found in the production report, which is included in the preamble of the included original operating instructions.

The information can also be found on the EPAC sticker attached to the frame of your bike.



### NOTICE

Please note that the **tare weight** stated here is the weight in the **basic configuration**.

If you subsequently replace **components** on your Longtail Hybrid or add **attachments**, the **tare weight** of your Longtail Hybrid will change.

## 3 Maximum payload

The wording "maximum payload" distinguishes between:

- the maximum permissible **payload** for the **Rear carrier** (=design dependent load capacity of the Rear carrier) *➔ Chapter 3.1 "Maximum payload for the Rear carrier" on page 3*
- vs.**
- the maximum permissible **payload** for your **Longtail Hybrid** (in total) considering the permissible total weight for your Longtail Hybrid *➔ Chapter 3.1 "Maximum payload for the Rear carrier" on page 3.*

The maximum permissible payload for your Longtail Hybrid (in total) includes all loads that are transported with the Longtail Hybrid, including, for example, luggage that you transport on a Front carrier or in a backpack.

### 3.1 Maximum payload for the Rear carrier

The **theoretically** maximum permissible **payload** for the Rear carrier of your Longtail Hybrid is **60 kg**.

**NOTICE**

The **maximum payload** on the **Rear carrier** i.e. the weight of the load (children or objects) must not exceed **40 kg from the top** and not more than **15 kg on each side** but not more than 60 kg in total.

In order to determine the **actual** maximum permissible **payload** of the Rear carrier, you must take into account not only the load capacity of the box but also the permissible **total weight** for your **Longtail Hybrid**.

If a payload of 60 kg on the Rear carrier would exceed the the permissible total weight for your Longtail Hybrid, the actual maximum permissible payload is less than 60 kg.

- To determine the **actual** maximum permissible **payload** on the Rear carrier, observe the examples in **Chapter 3.2 "Maximum payload depending on the permissible total weight (calculation examples)"** on page 4.

### 3.2 Maximum payload depending on the permissible total weight (calculation examples)

Depending on the design of some components of your Longtail Hybrid, you will find information on the maximum weight with which you may load the respective component.

If all these theoretically permissible individual load capacities are fully utilised, you will usually exceed the permissible total weight for your Longtail Hybrid:

#### Calculation with theoretically permissible individual load capacities

Unladen weight of Longtail Hybrid:

**+ 35 kg**

Max. cyclist weight:

**+ 110 kg**

Max. payload on the Rear carrier (without optional, mountable accessories):

**+ 60 kg**

Max. payload on the permissible Front carrier:

**+ 20 kg**

Max. payload on the downtube carrier:

**+ 5 kg**

Total weight of the Longtail Hybrid:

**= 230 kg (permissible total weight exceeded by 30 kg)**

#### Result/conclusion:

The actual total weight (230 kg) would in this case exceed the permissible total weight (200 kg).

**You are not allowed to use your Longtail Hybrid in this way!**

The following calculation examples no. 1-3 show how to determine the maximum payload for your Longtail Hybrid depending on the permissible total weight.

#### Calculation example no. 1

Unladen weight of the Longtail Hybrid:

**+ 35 kg**

Actual cyclist weight:

**+ 105 kg**

Actual payload on the Rear carrier:

**+ 60 kg**

Actual total weight of the Longtail Hybrid:

**= 200 kg (permissible total weight reached)**

#### Result/conclusion on calculation example no. 1:

In this case, the actual total weight (200kg) equals the permissible total weight.

**You may use the Longtail Hybrid in this way, but you cannot transport any other load** (e.g. on the downtube carrier)!

**Calculation example no. 2**

Unladen weight of the Longtail Hybrid:

+ 35 kg

Actual cyclist weight:

+ 99 kg

Actual payload on the Rear carrier:

+ 45 kg

Unladen weight of the Front carrier:

+ Approx. 1 kg

Actual payload of the Front carrier:

+ 20 kg

Actual total weight of the Longtail Hybrid:

= 200 kg (permissible total weight reached)

**Result/conclusion on calculation example no. 2:**

In this case, the actual total weight (200 kg) equals the permissible total weight. Since the Rear carrier is not loaded with the full weight of the maximum permissible payload for the Rear carrier, the additional load can be transported on the Front carrier.

**You may use the Longtail Hybrid in this way!**

**Important:** The unladen weight of the Front carrier (as a retrofitted attachment) must be taken into account.

**Calculation example no. 3**

Unladen weight of the Longtail Hybrid:

+ 35 kg

Actual cyclist weight:

+ 81 kg

Actual payload on the Rear carrier:

+ 58 kg

Actual payload on the downtube carrier:

+ 5 kg

Unladen weight of the Front carrier:

+ Approx. 1 kg

Actual payload of the Front carrier:

+ 20 kg

Actual total weight of the Longtail Hybrid:

= 200 kg (permissible total weight reached)

**Result/conclusion on calculation example no. 3:**

In this case, the actual total weight (200 kg) equals the permissible total weight. If the (lower) cyclist weight permits, the Rear carrier and Front carrier can each be loaded with the full weight of their maximum permitted payload.

**You may use the Longtail Hybrid in this way!**

**Important:** The unladen weight of the Front carrier (as a retrofitted attachment) must be taken into account.

## 4 Rear carrier

The Rear carrier is designed both for transporting loads and for carrying children.

### 4.1 Child transportation

To transport children, your Longtail Hybrid must be equipped with different accessories depending on the age of the children, which will be transported.

All accessories are available from your CUBE-specialist bicycle dealer.

Please refer to the following table for the required accessories.

**NOTICE**

Because of the retrofitted accessories, the maximum permissible payload on the rear carrier will be reduced by the weight of the accessories.

**load distribution:**

For children of different heights and weights, the taller/heavier person should be positioned at the front of the carrier to keep the center of gravity central.

Age	Number of children max. body weight	Required accessories
1-5 years	1-2 children max. 20 kg each	Suitable childseat, Rear carrier attachment "Toprail", Side protector
6-9 years	1-2 children max. 20 kg each	Rear carrier attachment "Toprail", Side protector, Bench seat, Stepping board
> 6 years	1 person max. 40 kg	Rear carrier attachment "Toprail", Side protector, Bench seat, Stepping board

**NOTICE**

If the maximum load of the Rear carrier (40 kg) is not exceeded, a child may be transported in a child seat together with one person (> 6 years).

The child seat must be mounted in the rear position on the Rear carrier.

**NOTICE**

Children must always be lifted into the child seat or onto the seat by an adult.

The Longtail Hybrid can tip over when attempting to climb up independently via the Rear carrier attachment "Toprail".

**NOTICE**

For installation and use, please refer to the instructions for the respective accessories, which are included with the accessories.

## 4.2 Load transportation

Your Longtail Hybrid has a wide range of options for the load transportation.

In addition to the Rear- and down tube carriers fitted as standard, there are optional accessories that can extend and simplify the possibilities for transporting loads and luggage.

An overview of the maximum payloads for the various carrier systems can be found below:

- Rear carrier **60 kg (40 kg** from above / on the side of the Rear carrier struts or on the Stepping boards **15 kg** each side).
- Front carrier **20 kg**.
- Downtube carrier **5 kg**.

**NOTICE**

Any accessories fitted subsequently reduce the maximum permissible load by the weight of the fitted accessory component.

**NOTICE**

For installation and use, please refer to the instructions for the respective accessories, which are included with the accessories.

### Legal notice

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