

# 2023 ÉMONDA ALR

SERVICE MANUAL

# Contents



Routing - mechanical



Routing - Di2





- <u>Headset integrated stem:</u> instructions
- Headset standard stem



Routing - eTap



Headset - integrated stem

**Specifications** 





<u>Headset – integrated stem:</u> max spacers



Routing - mechanical:

instructions

Routing - Di2: instructions

## Safety

#### WARNING

#### Properly tighten hardware

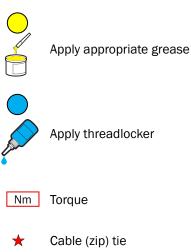
Always tighten hardware to the specified torque. Over-tightening hardware could deform or break the hardware or components. Under-tightening hardware could cause hardware or components to become loose. Either situation could damage the bicycle and result in injury to the rider.

#### WARNING A

#### Reapply threadlocker

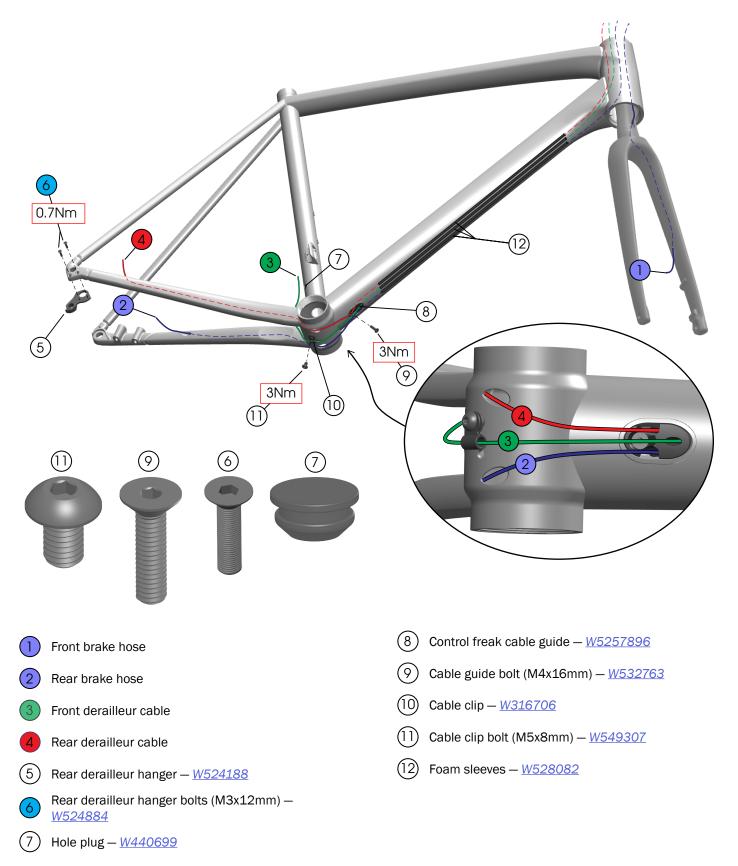
All reused-fasteners with pre-applied threadlocker must be cleaned with isopropyl alcohol and have new threadlocker applied before re-assembly. If threadlocker is not applied, the fasteners may loosen which could damage the bicycle and result in injury to the rider.

#### Legend

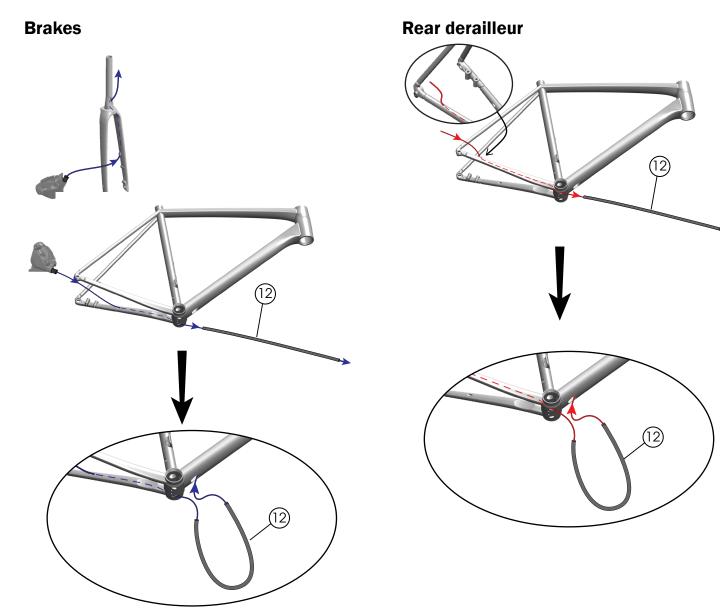


Copyright 2022 Trek Bicycle Corporation All Rights Reserved

## Routing — mechanical

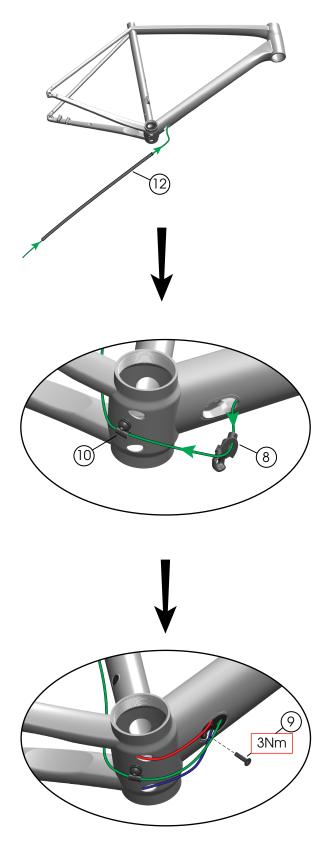


## Routing — mechanical: instructions

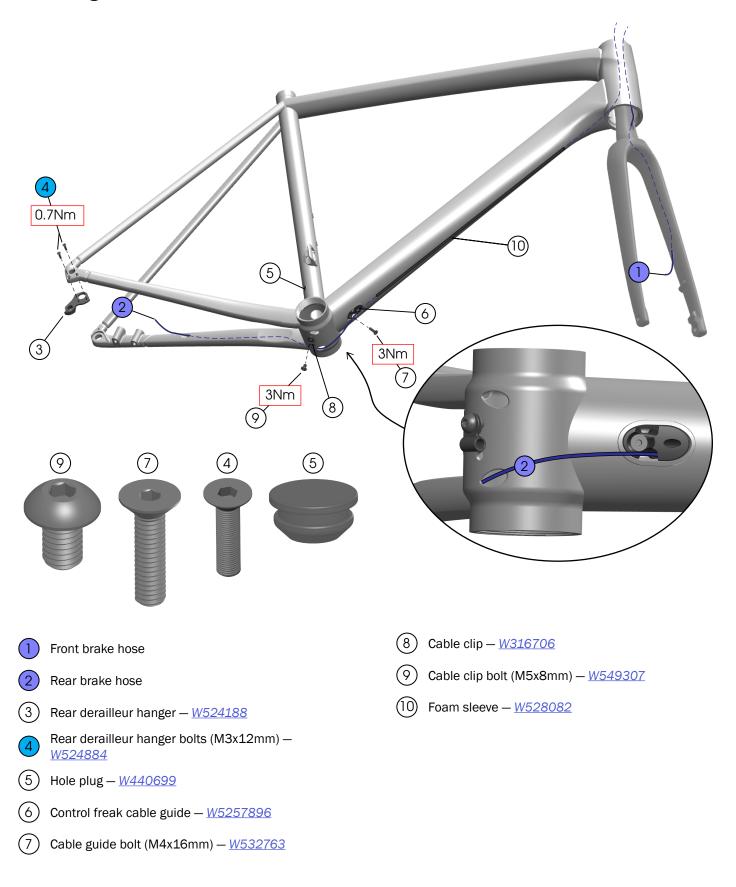


## Routing — mechanical: instructions (continued)

#### Front derailleur

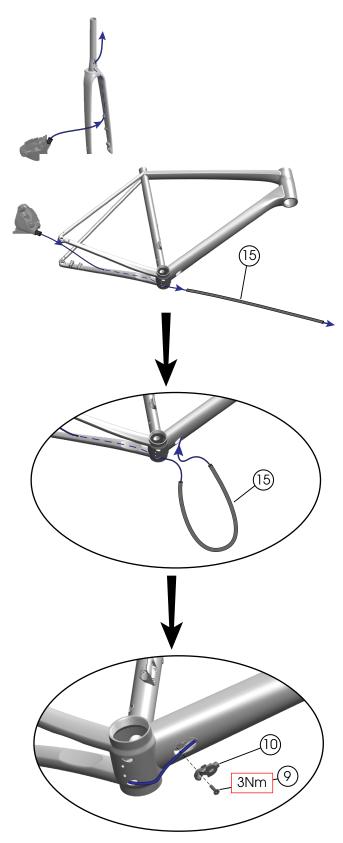


## Routing — eTap

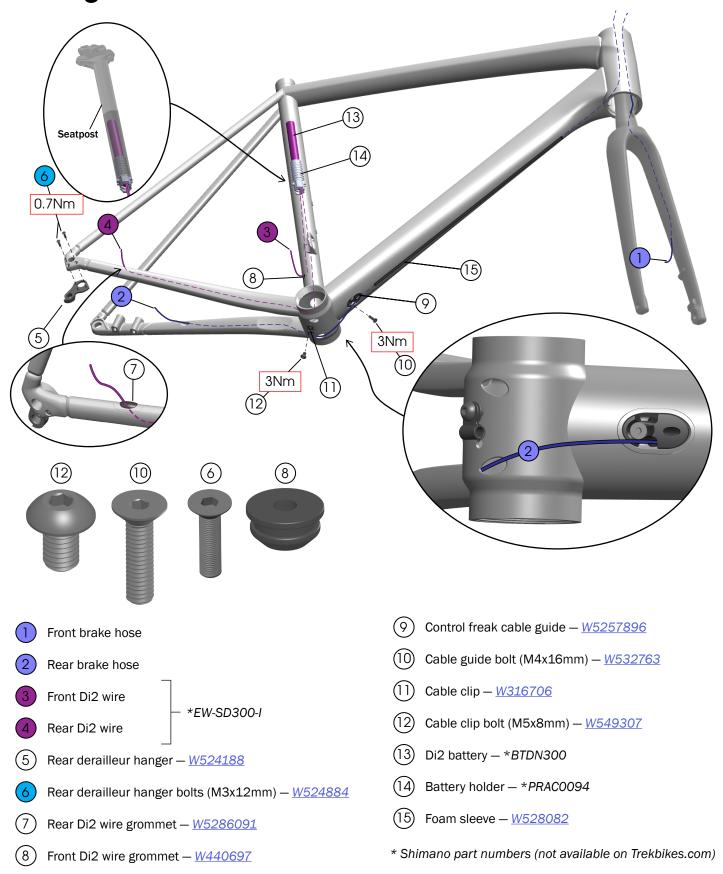


## Routing — eTap: instructions

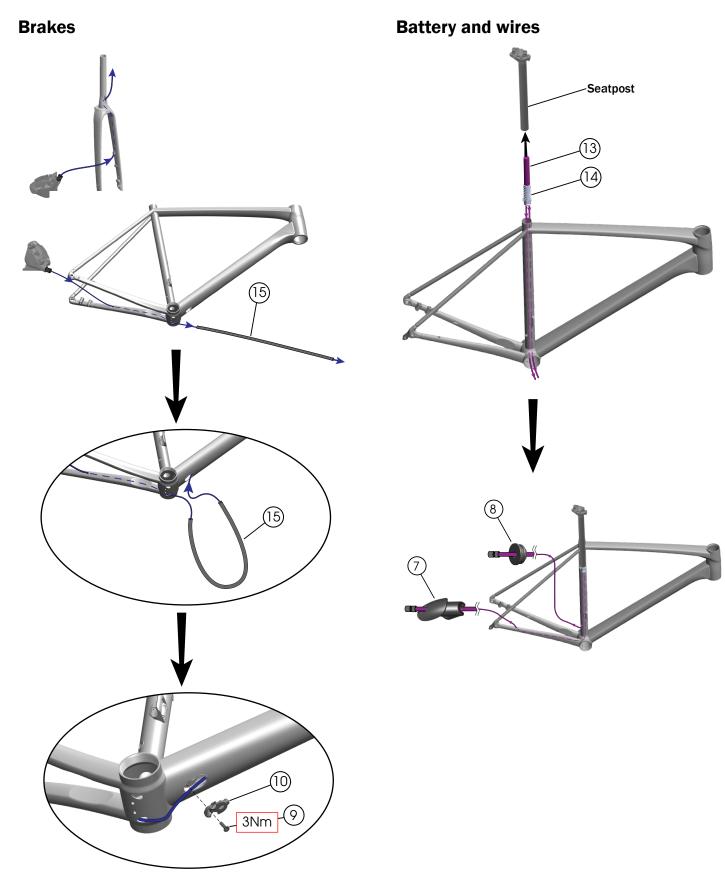
#### **Brakes**



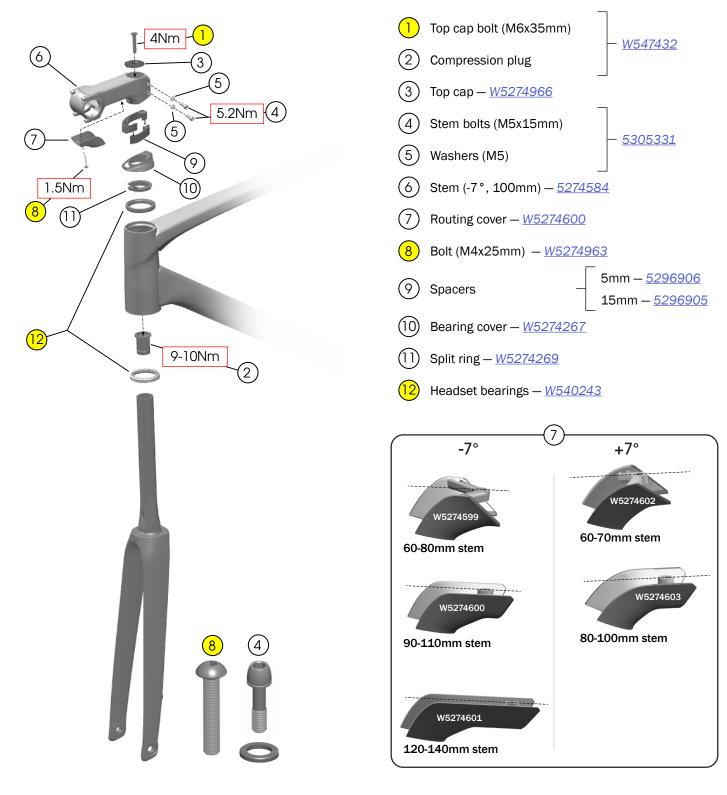
### Routing — Di2



## **Routing — Di2: instructions**



## Headset — integrated stem

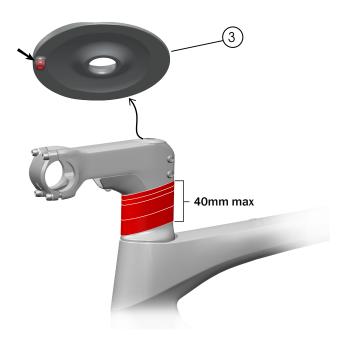


### Headset — integrated stem: max spacers

## **A** WARNING

#### Below the stem

Do not exceed 40mm of headset spacers below the stem. If there are more than 40mm of spacers, the steerer tube could become damaged and break, causing a crash resulting in injury.

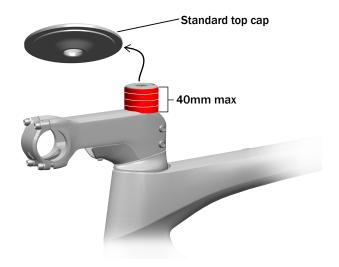




#### Above the stem

Do not exceed 40mm of headset spacers above the stem. If there are more than 40mm of spacers, the steerer tube could become damaged and break, causing a crash resulting in injury.

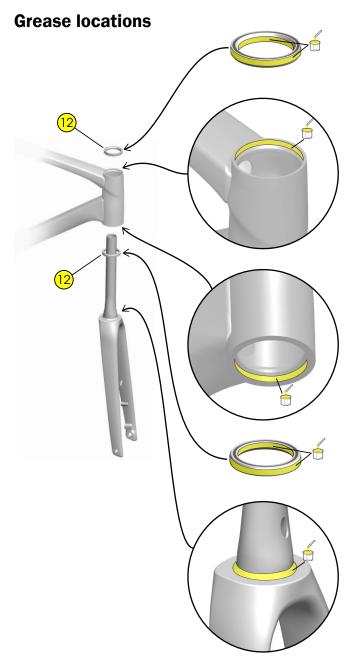
**NOTE:** If you add spacers above the stem, you must use a standard top cap (without the indent).



## Headset — integrated stem: instructions

#### Fork and compression plug





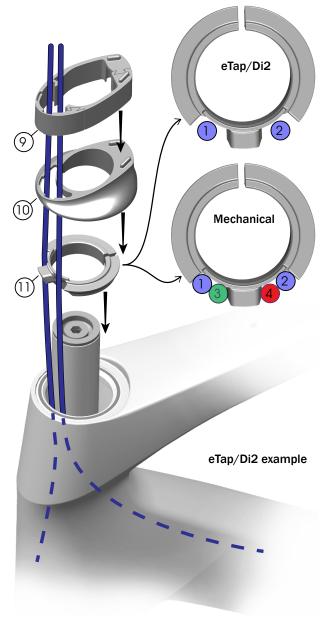
**TIP:** Use a sprint stand to hold the fork in place.



## Headset — integrated stem: instructions (continued)

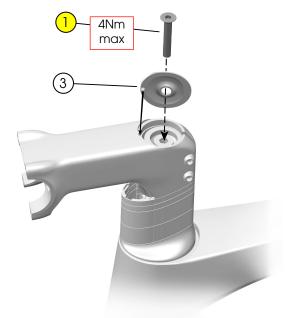
#### **Headset parts**

1. Route the headset parts down the housings.

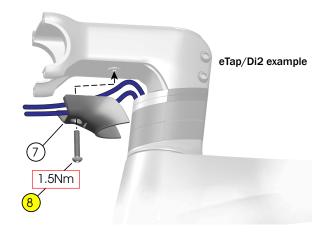


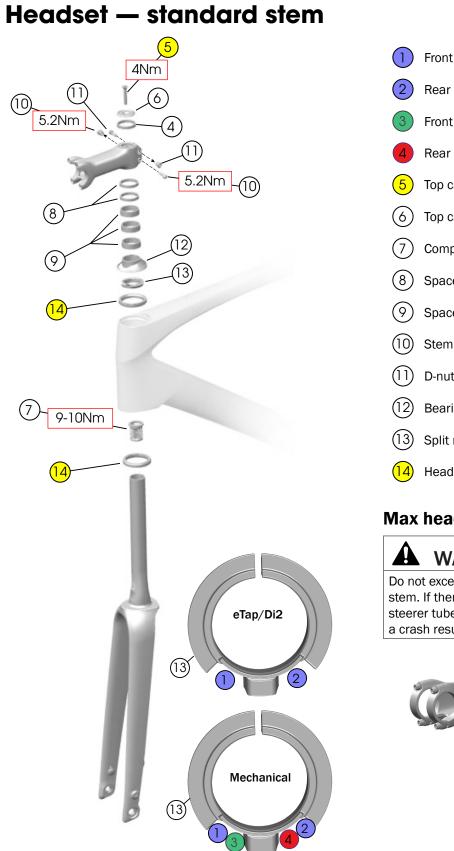


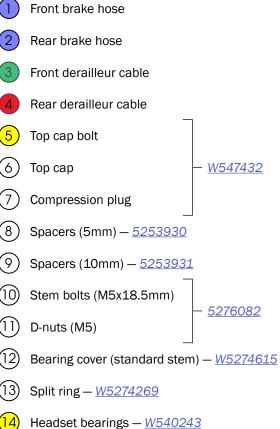
- 2. Loosely attach the stem (6).
- 3. Install the top cap (3) and tighten the top cap bolt (1).



- 4. Tighten the stem bolts (4) alternating between them until both are torqued to 5.2Nm.
- 5. Install the routing cover (7).



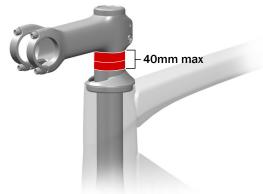




#### Max headset spacers

WARNING

Do not exceed 40mm of headset spacers below the stem. If there are more than 40mm of spacers, the steerer tube could become damaged and break, causing a crash resulting in injury.



## **Specifications**

#### Frame

|                              | ALR        |
|------------------------------|------------|
| Rear hub OLD                 | 142mm      |
| Front hub OLD                | 100mm      |
| Upper fork steerer tube OD   | 28.6mm     |
| Lower fork steerer tube OD   | 38.8mm     |
| Bottom bracket type/width    | T47/85.5mm |
| Brake rotor diameter min/max | 140/160mm  |
| Tire width max 700c          | 28mm       |
| Fender compatible — rear     | No         |
| Fender compatible — front    | No         |

#### Chainline/chainring

|         | Chainline | Max chainring teeth (T) |       |             |
|---------|-----------|-------------------------|-------|-------------|
|         | Chaimine  | Small                   | Large | Single (1x) |
| Shimano | 45mm      | —                       | —     | 48T         |
|         | 45mm      | 32T                     | 53T   | _           |
| SRAM    | 45mm      | —                       | _     | 48T         |
|         | 45mm      | 36T                     | 53T   | _           |

#### Brake hose lengths (caliper to lever)

**NOTE:** The lengths below are based on a 100mm stem with 40mm of headset spacers below the stem.

| Frame size | Rear brake | Front brake |
|------------|------------|-------------|
| 47cm       | 1,350mm    | 700mm       |
| 50cm       | 1,400mm    | 750mm       |
| 52cm       | 1,450mm    | 800mm       |
| 54cm       | 1,500mm    | 850mm       |
| 56cm       | 1,500mm    | 850mm       |
| 58cm       | 1,550mm    | 850mm       |
| 60cm       | 1,600mm    | 900mm       |
| 62cm       | 1,600mm    | 950mm       |

#### Wire lengths – Di2 (derailleur to battery)

| Frame size | Rear derailleur | Front derailleur |
|------------|-----------------|------------------|
| 47cm       | 1,200mm         | 800mm            |
| 50cm       | 1,200mm         | 800mm            |
| 52cm       | 1,200mm         | 800mm            |
| 54cm       | 1,200mm         | 800mm            |
| 56cm       | 1,200mm         | 800mm            |
| 58cm       | 1,200mm         | 800mm            |
| 60cm       | 1,200mm         | 800mm            |
| 62cm       | 1,200mm         | 800mm            |

## Housing lengths — mechanical (derailleur to lever)

| Frame size | Rear derailleur | Front derailleur |
|------------|-----------------|------------------|
| 47cm       | 1,450mm         | 1,000mm          |
| 50cm       | 1,500mm         | 1,050mm          |
| 52cm       | 1,550mm         | 1,100mm          |
| 54cm       | 1,600mm         | 1,150mm          |
| 56cm       | 1,600mm         | 1,150mm          |
| 58cm       | 1,650mm         | 1,200mm          |
| 60cm       | 1,700mm         | 1,250mm          |
| 62cm       | 1,700mm         | 1,250mm          |