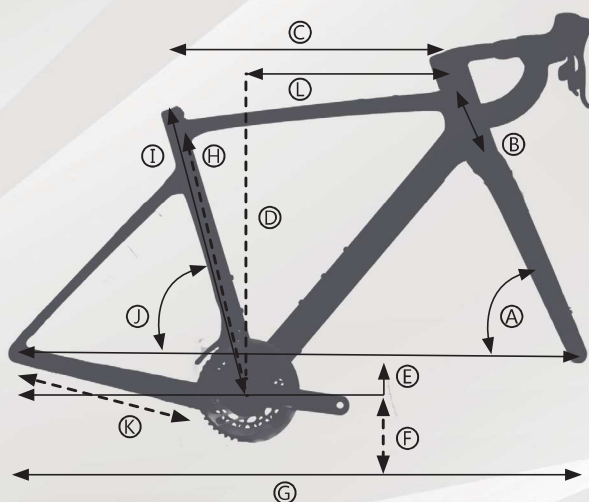


ADDICT eRIDE



Geometry & Technical Data:

EMBARGO MARCH 2022



Max/Min Rotor Size:

- Front 160mm Only
- Rear 160mm Only

Max Rotor bolt size: 10mm
(standard disc bolt length)

Max Tyre Size: 32mm

MY22 ADDICT eRIDE

	XSmall	Small	Medium	Large	X/Large
A head tube angle	71°	72°	72.5°	73°	73.3°
B head tube length	105 mm	125 mm	145 mm	165 mm	185 mm
C top tube horizontal	515 mm	530 mm	545 mm	560 mm	575 mm
D standover height	752 mm	776 mm	799 mm	822 mm	843 mm
E BB offset	-70 mm	-70 mm	-70 mm	-70 mm	-70 mm
F BB height	279 mm	279 mm	279 mm	279 mm	279 mm
G wheel base	995.1 mm	997 mm	1002.6 mm	1007.5 mm	1014.8 mm
H BB center to toptube center	435 mm	460 mm	485 mm	510 mm	535 mm
I BB center to top of seattube	490 mm	520 mm	540 mm	560 mm	580 mm
J seat angle	75°	74.5°	74°	73.5°	73.1°
K chainstay	422 mm	422 mm	422 mm	422 mm	422 mm
L reach	373.2 mm	377 mm	380.9 mm	384.3 mm	388.6 mm
stack	529.1 mm	551.6 mm	572.4 mm	593.3 mm	613.6 mm
Fork Rake	45°	45°	45°	45°	45°

General Overview Addict eRIDE MY22:

The MY22 Addict eRIDE will feature several updates including the new X20 system from Mahle.

The frame will be updated to comply with the X20 system.

The bike will keep the same front end and cockpit from last year. Please refer to MY20 techbook P101 for more info.

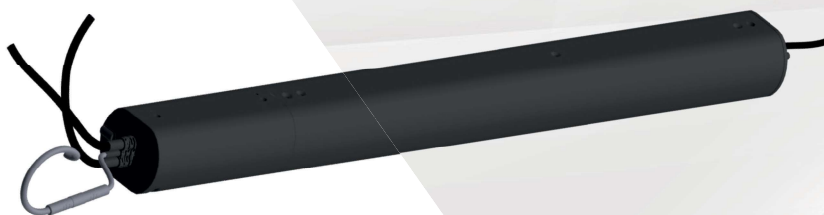
All warranty claims of MAHLE parts must be done in B2B warranty page. Or claimed directly to MAHLE tech support. hello@ebikemotion.com

EMBARGO MARCH 2022

X20 Battery:

There is a new internal battery of 252Wh. The battery is still the heart and brain of the system. The X20 and the old X35 batteries are not cross compatible, and the new battery has new cable connections and a new different mounts to the frame.

291734 SCO eRIDE Mahle Addict inter battery 22



The Battery is pre-programmed with EU 25km/h software from our Aubange warehouse.

If replacing an US bike battery QM team can provide you a new software to update the battery to US software compatible with the US motor. The new Active Charger will be used to perform the update via USB.

The Battery does not include the battery/frame mounts. This is a separate kit:

294282 SCO eRIDE Mahle Addict bat mount 22



Software Update Procedure:

The GCU tool is no longer needed to perform software updates for the X20 system. Any updates needed can be done via APP connection or by the SmartCharger. There will be a new app. The current dealer app is to be discontinued. The new APP will be compatible with both X35 and X20 systems.

Torque & Cadence Sensor:

The X20 system the torque and cadence sensor are in the press fit bottom bracket BB86 to 24mm spindle.

291228 SCO eRIDE Mahle torque sensor BB86 22



In addition to the BB you need the adaptor for shimano or Sram cranks.

291230 SCO eRIDE Mahle BB 22/24mm Sram adapt 22

291229 SCO eRIDE Mahle BB 24mm Shim adapter 22

Please note that we will use the SRAM GXP 24mm spindle cranksets for the SRAM equipped Addict eRIDE bikes. We do not have any DUB BB solution.

The Shimano adaptor is already included in 291228 SCO eRIDE Mahle torque sensor BB86 22 kit

Standard BB removal and installation tools can be used as no special Mahle tools is required to remove or assemble the BB.

EMBARGO MARCH 2022

Dropouts & Axle:

The X20 features a new rear hub motor with a 12x142 mm axle.

The X20 features an easy slip in system of the wheel. This means the motor auto connects with the system when the rear wheel is inserted into the dropout.

You no longer need to disconnect any cables when removing the wheel. The system requires a left side X20 dropout that has a magnetic connection to the hub motor.

290053 SCO eRIDE Mahle Addict Dropout L/H/S 22



For the right-hand side drop out hanger the frame features the same dropout options as the Addict RC.

277544 SCO Dropout Addict RC 20

277545 SCO Dropout Addict RC direct mount 20

The new frame now as well share the same rear axle as Addict RC, this means the bike can now be used with a standard non-motorised 12x142mm wheel.

277030 SCO Axle rear Addict RC/Plasma 6 20



EMBARGO MARCH 2022

Rear Hub Motor:

We will stock the motor hub as a spare part for warranties.

291233 SCO eRIDE Mahle motor unit X20 22

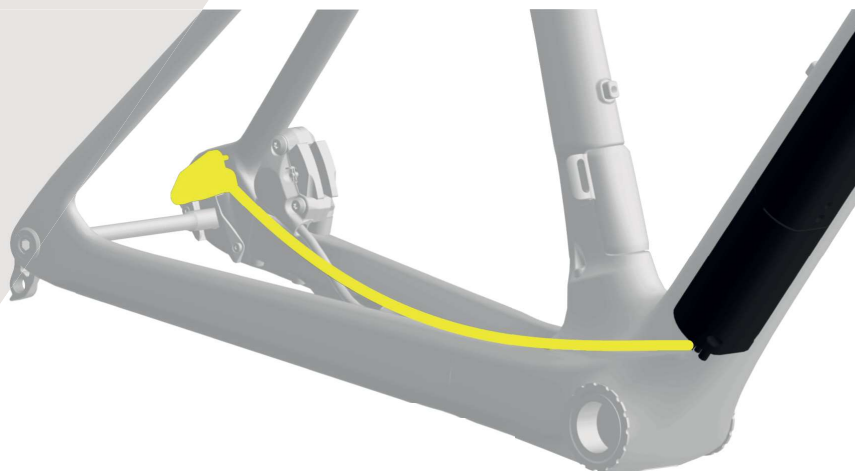
The freehub body integration into the hub is tool free and the body can be taken off by hand.



EMBARGO MARCH 2022

The following cable connects the battery and the left-hand side dropout connector.

291231 SCO eRIDE Mahle hub auto connect wire 22



Disc Brake Motor Attachment:

The Mahle motor is still with 6 bolt system, NOW WITH 10 MM BOLTS CLEARANCE.

Please take extra care when installing the rear disc rotor as the rotor will have a snug fit when installing it over the motor connector.

Example below; the disc will not fit on the hub because the housing will clash with the rear face of the disc rotor spider and cannot pass the connector.

Take note of the correct disc rotor position as highlighted below.

Once the connector is behind the rotor, the end cap can go through the brake disc hole.



Motor Mapping:

The motor will be the same for 25km/h bikes and 32km/h bikes. But a different software will be used in the battery controller.

We CANNOT update already existing preprogramed 25 km/h bikes into 32 km/h.

Wheels and Freehub Body Compatibility:

For the X20 system you will have to possibility to run the standard Shimano HG freehub body or the SRAM RXD body.

Please note that we do not carry any shimano road MicroSpline freehub body kit.

The freehub body integration into the hub is tool free and the body can be taken off by hand.

291235 SCO eRIDE Mahle freehub XDR 22
291234 SCO eRIDE Mahle freehub Shim 22

We have the following replacement wheels.

They are only to be used in real warranty emergency cases. Please always repair the front hub or rear hub motor as first option.

The new rear wheels will be delivered without the freehub body. The freehub body must be ordered separately or re-used from the original wheel.

290048 SCO eRIDE Mahle R-Wheel CARB 22 Wty
290050 SCO eRIDE Mahle R-Wheel ALLOY 22 Wty
290051 SCO eRIDE Mahle F-Wheel ALLOY 22 Wty
290049 SCO eRIDE Mahle F-Wheel CARB 22 Wty

Remote Controller:

The new frame and X20 system have a new remote controller.

291232 SCO eRIDE Mahle one remote and holder 22

The new controller will show the battery level and as well as the different assistance levels.

X20 will feature a new assistance level in colour blue. This means the X20 system will no longer use blue as Bluetooth connection colour.

The X35 and X20 controllers are not cross compatible.

EMBARGO MARCH 2022

- Control Button**
On/Off
Assistance Level
Light On/Off
- Ambient Light Sensor**
Adaptation of the bicycle
components (lights etc).
- RGB Dynamic Line**
Battery Level (area filled)
Assist Level (by colour)
System Info (animation of the
line)



- GREY:** No Assistance
- GREEN:** Level 1
- ORANGE:** Level 2
- RED:** Level 3
- BLUE:** Automatic Assistance Mode



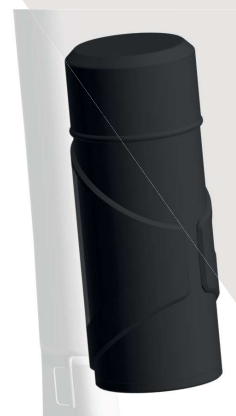
Range Extender:

We have a new Range Extender for the MY22 X20 system.

288538 SCO eRIDE Mahle Addict Booster 2 battery

The new X20 RE is a second battery (185 Wh) and direct power supply to the X20 system. This means the RE can support the bike even if the internal battery has been drained of power.

The X20 and X35 are not cross compatible. The X20 RE has as a new smaller size to fit any standard bottle cage on the market, no special RE cage from Mahle is needed any longer.



EMBARGO MARCH 2022

Active Charger:

The new Active Charger includes CAN BUS for real time communication with the battery.

This direct communication combined with a more powerful converter allows the battery to be charged at different intensities from 0 to 4.5A making the charging process faster and better.

The micro USB port on the charger provides an additional connecting point option to make updates to the full eBike system directly.

The chargers are not cross compatible with the different systems!

294434 SCO eRIDE Mahle Addict charger 22

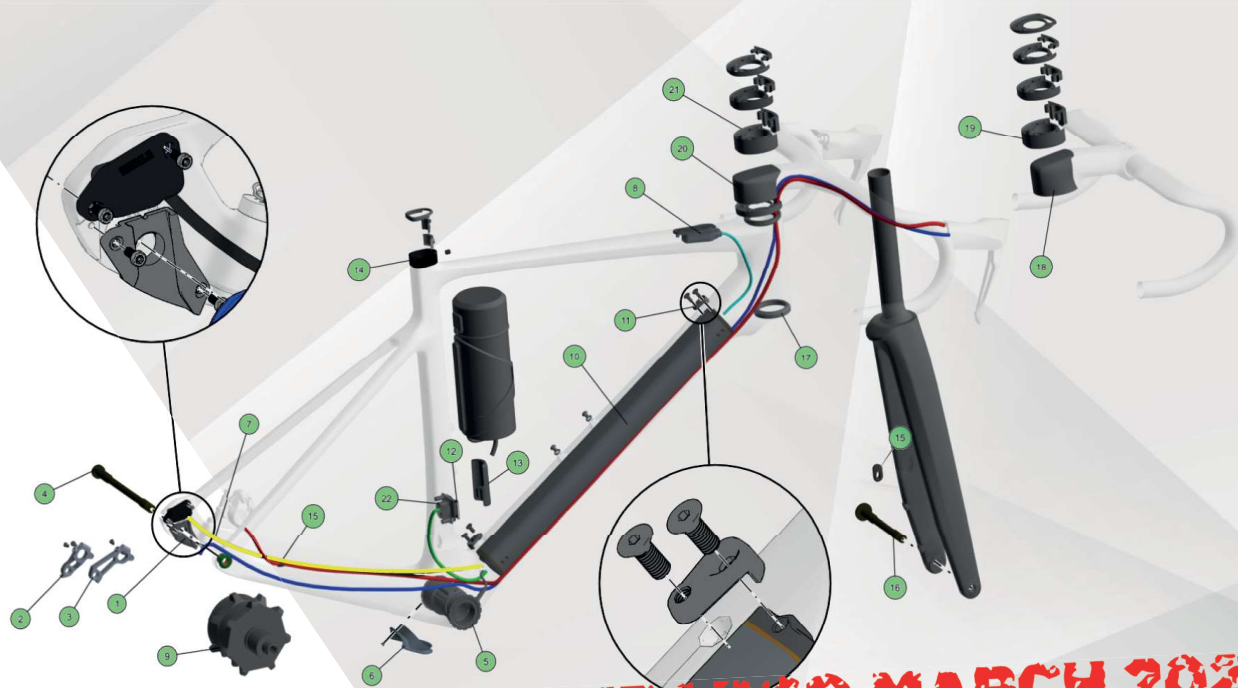
EMBARGO MARCH 2022

Display:

The X20 system is compatible with the Pulsarone display.

**285950 SCO eRIDE Mahle Addict
PULSARONE display**





EMBARGO MARCH 2022

ITEM	DESCRIPTION	No.
290053	SCO eRIDE Mahle Addict Dropout L/H/S 22	1
277544	SCO Dropout Addict RC 20	2
277545	SCO Dropout Addict RC direct mount 20	3
277030	SCO Axle rear Addict RC/Plasma 6 20	4
291228	SCO eRIDE Mahle torque sensor BB86 22	5
291229	SCO eRIDE Mahle BB 24mm Shim adapter 22	5
261230	SCO eRIDE Mahle BB 22/24mm Sram adapt 22	5
282747	SCO eRIDE Mahle Addict bat/wire mount 21 (battery BB cover)	6
291231	SCO eRIDE Mahle hub auto connect wire 22	7
291232	SCO eRIDE Mahle one remote and holder 22	8
291233	SCO eRIDE Mahle motor unit X20 22	9
291234	SCO eRIDE Mahle freehub Shim 22	9
291235	SCO eRIDE Mahle freehub XDR 22	9
291734	SCO eRIDE Mahle Addict inter battery 22	10
294282	SCO eRIDE Mahle Addict bat mount 22	11
283346	SCO eRIDE Mahle Addict FD mount 21	12
292635	SCO eRIDE Mahle Addict charge cover 22	13
277543	SCO Seatclamp Addict RC20	14
277025	SCO Cableguide kit Addict RC D 20	15
277028	SCO Axle front Addict RC / Plasma6 TP 20	16
288249	SYN Headset IS52/31.8 - IS52/42	17
277549	SCO Stem steerer cap SY RR iC	18
277548	SCO Stem spacer kit SY RR iC	19
277550	SCO Stem Steerer cap SY Crest iC	20
277547	SCO Stem spacer kit SY Crest iC	21
282730	SCO eRIDE Mahle Addict charge plug EU 21	22
282731	SCO eRIDE Mahle Addict charge plug UK 21	22
282732	SCO eRIDE Mahle Addict charge plug US 21	22

ADDICT eRIDE ULTIMATE

ITEM	DESCRIPTION	ITEM	DESCRIPTION
289128	SCO Fork Addict eRIDE ULT 22 Wty	290053	SCO eRIDE Mahle Addict Dropout L/H/S 22
288249	SYN Headset IS52/31.8 - IS52/42	290049	SCO eRIDE Mahle F-Wheel CARB 22 Wty
283350	SCO Rim SY Capital 1.0 X40e 24H 21	290048	SCO eRIDE Mahle R-Wheel SH CARB 22 Wty
283351	SCO Rim SY Capital 1.0 X40e 32H 21	277028	SCO Axle front Addict RC/ Plasma 6 TP 20
271246	SCO Hub rep kit SY Merr/Cap 1.0D F	294282	SCO eRIDE Mahle Addict bat mount 22
283346	SCO eRIDE Mahle Addict FD mount 21	275439	SYN Seatpost Duncan Aero SL 20mm Offset
242489	SCO Headset Compression kit 1 1/4	275438	SYN Seatpost Duncan Aero SL 5mm Offset
282733	SCO eRIDE Mahle Addict charge port 21	275447	SYN Saddle Belcarra R 2.0, Channel
277543	SCO Seatclamp Addict RC 20	277030	SCO Axle rear Addict RC/ Plasma 6 20
282737	SCO eRIDE Mahle Addict magnet ring 21	277545	SCO Dropout Addict RC direct mount 20
275437	SYN Seatpost Duncan Aero SL 0mm Offset	288538	SCO eRIDE Mahle Addict Booster2 Bty MY22
282738	SCO eRIDE Mahle Addict PAS sensor 21	277025	SCO Cableguide kit Addict RC D 20
292635	SCO eRIDE Mahle Addict charge cover 22	277550	SCO Stem steerer cap SY Crest iC
291734	SCO eRIDE Mahle Addict inter battery 22	277547	SCO Stem spacer kit SY Crest iC
291234	SCO eRIDE Mahle freehub Shim 22	275411	SYN Creston iC SL, 420mm
291233	SCO eRIDE Mahle motor unit X20 22	275412	SYN Creston iC SL, 440mm
291232	SCO eRIDE Mahle one remote and holder 22	275410	SYN Creston iC SL, 400mm
291231	SCO eRIDE Mahle hub auto connect wire 22	275409	SYN Creston iC SL, 380mm
291230	SCO eRIDE Mahle BB 22/24mm Sram adapt 22	285950	SCO eRIDE Mahle Addict PULSARONE display
291229	SCO eRIDE Mahle BB 24mm Shim adapter 22	294434	SCO eRIDE Mahle Addict charger 22
291228	SCO eRIDE Mahle torque sensor BB86 22		

ADDICT eRIDE 10

ITEM	DESCRIPTION	ITEM	DESCRIPTION
289130	SCO Fork Addict eRIDE 20 22 Wty	291232	SCO eRIDE Mahle one remote and holder 22
288249	SYN Headset IS52/31.8 - IS52/42	291231	SCO eRIDE Mahle hub auto connect wire 22
283352	SCO Rim SY Capital 2.0 X25e 28H 21	291230	SCO eRIDE Mahle BB 22/24mm Sram adapt 22
283353	SCO Rim SY Capital 2.0 X25e 32H 21	291229	SCO eRIDE Mahle BB 24mm Shim adapter 22
271260	SCO Hub rep kit Form TXC-712 F 19	291228	SCO eRIDE Mahle torque sensor BB86 22
277042	SCO Stem top cover SY RR iC	290053	SCO eRIDE Mahle Addict Dropout L/H/S 22
277549	SCO Stem steerer cap SY RR iC	290052	SCO eRIDE Mahle R-Wheel XD ALLOY 22 Wty
277548	SCO Stem spacer kit SY RR iC	290051	SCO eRIDE Mahle F-Wheel ALLOY 22 Wty
283346	SCO eRIDE Mahle Addict FD mount 21	277028	SCO Axle front Addict RC/Plasma 6 TP 20
242489	SCO Headset Compression kit 1 1/4	294282	SCO eRIDE Mahle Addict bat mount 22
282733	SCO eRIDE Mahle Addict charge port 21	275439	SYN Seatpost Duncan Aero SL 20mm Offset
275431	SYN Stem RR iC, 31,8mm	275438	SYN Seatpost Duncan Aero SL 5mm Offset
277543	SCO Seatclamp Addict RC 20	275447	SYN Saddle Belcarra R 2.0, Channel
282737	SCO eRIDE Mahle Addict magnet ring 21	277030	SCO Axle rear Addict RC/Plasma 6 20
275437	SYN Seatpost Duncan Aero SL 0mm Offset	277544	SCO Dropout Addict RC 20
282738	SCO eRIDE Mahle Addict PAS sensor 21	288538	SCO eRIDE Mahle Addict Booster2 Bty MY22
292635	SCO eRIDE Mahle Addict charge cover 22	277025	SCO Cableguide kit Addict RC D 20
291734	SCO eRIDE Mahle Addict inter battery 22	285950	SCO eRIDE Mahle Addict PULSARONE display
291235	SCO eRIDE Mahle freehub XDR 22	294434	SCO eRIDE Mahle Addict charger 22
291233	SCO eRIDE Mahle motor unit X20 22		

ADDICT eRIDE 20

ITEM	DESCRIPTION	ITEM	DESCRIPTION
289131	SCO Fork Addict eRIDE 30 22 Wty	291232	SCO eRIDE Mahle one remote and holder 22
288249	SYN Headset IS52/31.8 - IS52/42	291231	SCO eRIDE Mahle hub auto connect wire 22
283352	SCO Rim SY Capital 2.0 X25e 28H 21	291230	SCO eRIDE Mahle BB 22/24mm Sram adapt 22
283353	SCO Rim SY Capital 2.0 X25e 32H 21	291229	SCO eRIDE Mahle BB 24mm Shim adapter 22
271260	SCO Hub rep kit Form TXC-712 F 19	291228	SCO eRIDE Mahle torque sensor BB86 22
277042	SCO Stem top cover SY RR iC	290053	SCO eRIDE Mahle Addict Dropout L/H/S 22
277549	SCO Stem steerer cap SY RR iC	290051	SCO eRIDE Mahle F-Wheel ALLOY 22 Wty
277548	SCO Stem spacer kit SY RR iC	290050	SCO eRIDE Mahle R-Wheel ALLOY 22 Wty
283346	SCO eRIDE Mahle Addict FD mount 21	277028	SCO Axle front Addict RC/Plasma 6 TP 20
242489	SCO Headset Compression kit 1 1/4	294282	SCO eRIDE Mahle Addict bat mount 22
282733	SCO eRIDE Mahle Addict charge port 21	275439	SYN Seatpost Duncan Aero SL 20mm Offset
275431	SYN Stem RR iC, 31,8mm	275438	SYN Seatpost Duncan Aero SL 5mm Offset
277543	SCO Seatclamp Addict RC 20	275447	SYN Saddle Belcarra R 2.0, Channel
282737	SCO eRIDE Mahle Addict magnet ring 21	277545	SCO Dropout Addict RC direct mount 20
275437	SYN Seatpost Duncan Aero SL 0mm Offset	277030	SCO Axle rear Addict RC/Plasma 6 20
282738	SCO eRIDE Mahle Addict PAS sensor 21	288538	SCO eRIDE Mahle Addict Booster2 Bty MY22
292635	SCO eRIDE Mahle Addict charge cover 22	277025	SCO Cableguide kit Addict RC D 20
291734	SCO eRIDE Mahle Addict inter battery 22	285950	SCO eRIDE Mahle Addict PULSARONE display
291234	SCO eRIDE Mahle freehub Shim 22	294434	SCO eRIDE Mahle Addict charger 22
291233	SCO eRIDE Mahle motor unit X20 22		