

NOAH DISC AERO+

FRAME PASSPORT

TYPE: 7E2

LAST UPDATE: 12/10/2017



#BeTOUGH

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0. UPDATES

The development of frames, forks and components is a continuous running process. Therefore we strongly advise before reading this information sheet check our website for new updates.

1. GENERAL

1.1. DESCRIPTION

The Noah SL Disc is the first Ridley bike to have fully integrated cables. The evolution has been made possible by using the new Cable Management Section (CMS) Fork and the new Forza integrated aero cockpit that creates a wind cheating leading edge of the bike.

“Our wind tunnel testing has shown the drag around the front end of the bike is significantly reduced when using the Noah Disc Aero+ instead of using the regular Noah SL Disc”, says Jochim Aerts, CEO of Ridley. “The external cable routing was accountable for a majority of drag around the cockpit area. Eliminating that is a big improvement to the already race winning recipe.”

1.2. PART CODES

All the Noah Disc Aero+ frames have a particular part code composed by the letters “FRANSRID...”, added by 3 numbers. The three numbers change depending on the design and size of the frame. Due to the big amount of frames we don't list all the numbers but you can contact your local dealer for more information if needed.

2. MATERIAL

Used frame materials:

- 60 ton High Modulus Carbon
- 40 ton High Modulus Carbon
- 30 ton High Modulus Carbon
- Stainless steel (drop out protection plates)

3. WEIGHT

3.1. FRAME

SIZE	WEIGHT (*)
XXS	... GRAMS
XS	... GRAMS
S	... GRAMS
M	... GRAMS
L	... GRAMS

(*) Weight of unpainted frame, real weight may differ from the weight mentioned above by 10 %.

3.2. FORK

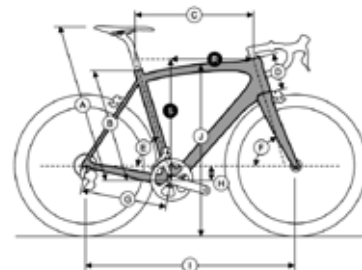
The weight of the Noah SL Aero + CMS (cable management system) Disc F-Splitfork Race is around 540 g (*)

(*) Weight of unpainted fork, real weight may differ from the weight mentioned above by 10 %.

4. GEOMETRY

SIZE	A	B	C	D	E	F	G	H	I	J*	S	R
XXS	755	460	516	110	75,0	72,0	405	68	970	748	507	379
XS	770	475	525	130	74,0	72,0	405	68	970	764	527	374
S	785	490	545	145	73,5	73,0	405	66	977	780	542	384
M	815	520	565	175	73,0	73,5	405	66	987	809	573	390
L	845	550	585	205	72,5	73,5	408	63	1005	839	599	396

(*): J: Stand over height, measured with 25 mm tires installed.



5. CABLE ROUTING

5.1. COMPATIBILITY

The Noah SL Disc is compatible for:

Mechanical groupsets (Shimano systems with a front derailleur with cable stopper-hydraulic or Mechanical brakes)

Electronical groupsets: Shimano Di2, Campagnolo EPS & SRAM eTap (Hydraulic or Mechanical brakes)

5.2. MECHANICAL CABLE ROUTING

Below you can find the parts needed for a mechanical groupset (Shimano Dura ace 9100 and ultegra R8000):

PART	PART CODE	LOCATION
RIDLEY BB CABLE GUIDE	FRPGRORID006	BOTTOM BRACKET
REAR DROPOUT PLUG	FRPGRORID007	REAR DROPOUT
FOAM TUBE 0.4M	CABFOAJAG001	DOWN TUBE
FOAM TUBE 0.4M	CABFOAJAG001	DOWN TUBE
FOAM TUBE 0.4M	CABFOAJAG001	DOWN TUBE

5.3. ELECTRONIC CABLE ROUTING

5.3.1. SHIMANO DI2 & CAMPAGNOLO EPS

Below you can find the parts needed for an electronical groupset

PART	PART CODE	LOCATION
RIDLEY BB CABLE GUIDE	FRPGRORID006	BOTTOM BRACKET
REAR DROPOUT PLUG	FRPGRORID007	REAR DROPOUT
PLUG ROUND TOP	FRPGROJAG009	SEAT TUBE
BATTERY ADAPTER	SPTDI24ZA001	SEATPOST
FOAM TUBE 0.4M	CABFOAJAG001	DOWN TUBE

5.3.2. SRAM ETAP

PART	PART CODE	LOCATION
RIDLEY BB CABLE GUIDE	FRPGRORID006	BOTTOM BRACKET
PLUG FLAT TOP	FRPGROJAG002	SEAT TUBE
PLUG FLAT TOP	FRPGROJAG002	REAR DROPOUT
FOAM TUBE 0.4M	CABFOAJAG001	DOWN TUBE

5.4. MANUAL

Check out the Manual on the Ridley website for more detailed instructions on how to assemble the Noah SL Aero +.

6. PARTS

6.1. FORK

The standard fork, used for a Noah SL Disc Aero +, is the Noah SL Disc Aero + CMS fork.

6.1.1. MATERIAL

Fork legs: Carbon
Steerer tube: Carbon

6.1.2. DIMENSIONS

Steerer tube length: 300 mm
Headset: 1 1/8" upper ring – 1 1/2" lower ring
Fork rake: 45 mm
OLD (OverLock nut Distance): 100 mm

6.1.3. PART CODES

All the Noah SL Disc Aero + F-Splitforks have a particular part code composed by the letters "FOR-RFL4ZA...", added by 3 numbers. The three numbers, depending on the design. Due to the big amount of forks we don't list all the numbers but you can contact your local dealer for more information if needed.

6.1.4. TESTING

Like all Ridley and 4ZA components the Noah Disc Aero+ fork passed all obliged testing protocols (EN and ISO). To validate the structural rigidity of the Proprietary fork design 300 000 additional testing cycles were performed on the Aero+ CMS fork.

6.2. HEADSET

45° Oversized angular contact bearing (S.H.I.S.: IS42/28,6|IS52/40):
Lower bearing: 1 1/2"
Upper bearing: 1 1/8"

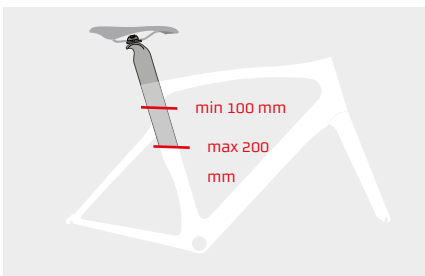
RIDLEY PART CODE	TYPE	BRAND
HSERACFSA008	NO.42/ACB-A-H6091	FSA
HSERACFSA009	NO.42/CFST/ACB-A-H6091	FSA

6.3. SEAT POST

The Noah SL Disc Aero + comes with a color matched Ridley Aero seat post that weighs around 230 grams. The part code of the seatpost is composed by the letters “SEPAER4ZA...”

**! PAY ATTENTION THE MINIMUM INSERT DEPTH OF THE SEAT POST IS 100 MM.
! PAY ATTENTION THE MAXIMUM INSERT DEPTH OF THE SEAT POST IS 200 MM, INSERTING THE SEATPOST TOO DEEP INTO THE SEAT TUBE CAN DAMAGE THE SEAT TUBE AT THE WHEEL CUT OUT AREA.**

The Noah SL Disc Aero + seatpost measures 350 mm measured from the center of the saddle rails to the bottom of the seatpost. As a result the maximum exposed seatpost length measures 250 mm (measured from the center of the saddle rails to the top end of the seat tube). The minimum exposed seatpost length measures 150 mm but can be further reduced by cutting the seatpost to the desired size.



6.3.1. SEAT POST CLAMP

Noah Disc Aero+ frames use the SPCNSLRID002 2-piece seatpost clamp with the FRPGRORID009 seatpost clamp plug.

! SAFETY WARNING !
 APPLY 'ASSEMBLY COMPOUND CARBON'
 AROUND INSERTED SEATPOST AREA (see instructions)

 ← ASSEMBLY TORQUE: min 10Nm / max. 14Nm!!!
REMOVE AFTER READING

6.4. BOTTOM BRACKET

The bottom bracket is designed for press fit 30 cups with a diameter of 46 mm and width of 68 mm. Below bottom bracket cups are being used for the standard assembled bikes.

PART CODE	BRAND	DESCRIPTION	COMPATIBLE CRANKSETS
BBRPF3SRA001	SRAM	PRESS FIT 30 CUPS	SRAM PRESS FIT 30 CRANKSETS
BBRPF3SRA003	SRAM	PRESS FIT 30 TO BSA 68 ADAPTER	SRAM BSA 68 CRANKSETS SHIMANO BSA 68 CRANKSETS
BBRPF3CAM002	CAMPAGNOLO	ULTRA TORQUE™ OS-FIT™ INTEGRATED CUPS BB30 68X46	CAMPAGNOLO ULTRA TORQUE CRANKSETS
BBRPF3CAM003	CAMPAGNOLO	POWER TORQUE™ OS-FIT™ INTEGRATED CUPS BB30 68X46	CAMPAGNOLO POWER TORQUE CRANKSETS
BBRPF3CBE003	C-BEAR	C-BEAR CUPS FOR CAMPAGNOLO ULTRA TORQUE	CAMPAGNOLO ULTRA TORQUE CRANKSETS
BBRPF3CBE004	C-BEAR	C-BEAR CUPS FOR CAMPAGNOLO POWER TORQUE	CAMPAGNOLO POWER TORQUE CRANKSETS

6.5. BRAKES

The Noah Disc Aero+ is suited for most standard brakes available in the market.

Fork:

Type: Flat mount
Thru axle: D 12mm, L 120mm, P1.5mm
Max. rotor size: 160mm*

Frame:

Type: Flat mount
Thru axle: D 12mm, L 167mm, P1.5mm
Max. rotor size: 160mm*

* Fork and frame are designed to use a 140 mm rotor. A 160 mm rotor can be mounted by use of an adapter.

6.6. DERAILLEUR

6.6.1. FRONT

The frame is provided with a braze on clamp.

6.6.2. REAR

The hanger, used for the Noah Disc Aero+ is the HAARCERID037.



6.7. DROP OUTS

The Fork features a stainless steel threaded insert for fixation of the front thru axle.

7. WHEELS AND TIRES

7.1. FRAME

The frame is developed for 700C race wheels with a build in width of 100mm front and 142 mm rear.

7.2. TIRES

We recommend a maximum tire width of 25 mm with a maximum rim width of 28 mm. Please note that not all tire manufacturers use the same sizing standard so we recommend to do assembly check and confirm clearances.

8. WARRANTY INFORMATION

8.1. MAXIMUM RIDER WEIGHT

The maximum advised rider weight is 110 kg.

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