TRISON



IMPORTANT INFORMATION

This manual is intended to guide official TRIGON retailers through the assembly and adjustment of the TRIGON ARO1. This manual outlines the process and procedure associated with the installation of TRIGON components, as well as the routing of shifting and braking control lines only. Proprietary parts referenced in this manual are available only through TRIGON BIKE.

Failure to use non-specified parts and follow these assembly instructions may result in loss of control while riding; and lead to serious injury. This manual is not intended to replace the assembly and service instruction provided by third-party component manufactures, and assumes that the assembler is a trained, professional bicycle mechanic.

NOTE: TRIGON strongly recommends that all assembly and adjustment procedures be performed by an authorized TRIGON retailer.

If you are a TRIGON AROI consumer/purchaser

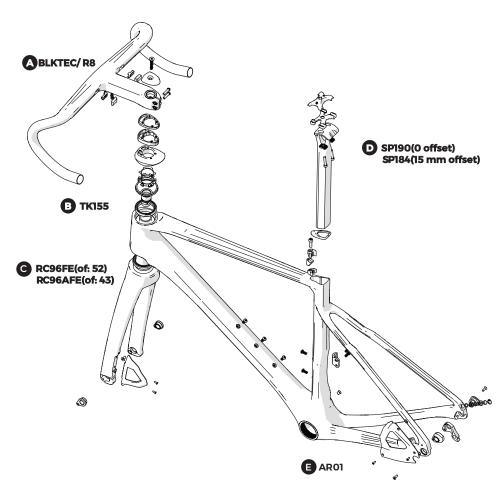
reading this manual we suggest that before attempting to undertake any of the procedures in this manual that you consultyour authorized TRIGON retailer, or visit us at www.trigonbike.com

PARTS IN EXPLODED VIEW

Excessive tightening of carbon fiber components can result in breakage, potentially leading to significant risks and voiding the product's warranty. It is imperative to adhere to the maximum torque specifications outlined in the TRIGON product specifications.

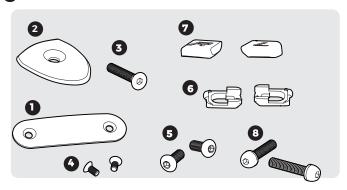
Furthermore, it is essential to employ the appropriate torque wrench for securing socket set bolts. Additionally, for enhanced part adherence, it is advisable to utilize commercially available assembly oils, and anti-slip paste. taking into consideration the specific assembly requirements.

In order to minimize aerodynamic drag,
the AR01 frame features an internal cable routing
system. Consequently, extra care is required during
the assembly process. We strongly recommend
conducting a
thorough bike fitting and assembly test
beforehand to ensure optimal results.

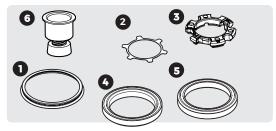


LIST OF ASSEMBLE PARTS OF FRAME

A BLKTEC/ R8

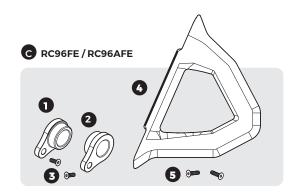


B TK155



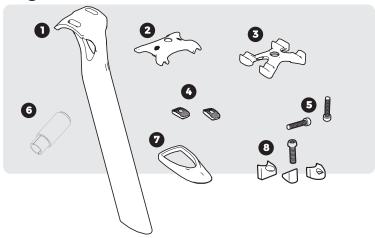
PART # SAP	PART NAME	QTY
TK155	SEAL	1
TK155	WASHER	3
TK155	SPLIT RING	1
TK155	UPPER BEARING	1
TK155	LOWER BEARING	1
EX-02-B1	PLUG EXPANDER	1
	TK155 TK155 TK155 TK155 TK155	TK155 SEAL TK155 WASHER TK155 SPLIT RING TK155 UPPER BEARING TK155 LOWER BEARING

POS	PART # SAP	PART NAME	QTY
1	42-034	HANDLEBAR FRONT COVER	1
2	42-035	STEM TOP CAP	1
3	51-029-AL	SCREW M6X35mm	1
4	M3x0.5x10L	SCREW FOR FRONT COVER	2
5	51-039	SCREW FOR STEM M5X8mm	2
6	48-020-L/R	FOR SHIMANO SATELLITE SHIFTER SW-RS801	1
7	48-018-L/R	COVER	1
8	51-RL-M420-2	SCREW FOR COMPUTER MOUNT	2



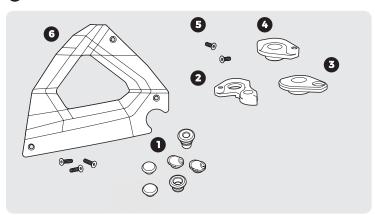
POS	PART # SAP	PART NAME	QTY
1	<u>46-041-12-L</u>	FORK HANGER / L	1
2	46-041-12-R	FORK HANGER / R	1
3	51-ML-M510	FLAT SCREW M5X0.8X8MM	2
4	42-039	FRONT AERO COVER	1
5	51-ML-M308-2	FLAT SCREW M3X8MM	2

D SP190 / SP184



POS	PART # SAP	PART NAME	QTY
1	SEATPOST	SP190(0 offset) or SP184(15mm offset)	1
2	DC-010D	SADDLE CLAMP TOP	1
3	DD-008C	SADDLE CLAMP BASE	1
4	52-008C	SADDLE CLAMP MOUNT	2
5	51-RL-M526	ROUND SCREW M5X0.8X26MM	2
6	DI2 HOLDER	DI2 BATTERY HOLDER	1
7	SP COVER	SEATPOST COVER	1
8	SP EXPANDER	SEATPOST EXPANDER SET	1

E AR01



POS	PART # SAP	PART NAME	QTY
1	HOUSING SET	SET for HOUSING	1
2	16-026BR	REAR DERAILLEUR HANGER"INSIDE"R	2
3	16-033R	REAR DERAILLEUR HANGER OUTSIDE R	1
4	16-027L	REAR DERAILLEUR HANGER "INSIDE" L	1
5	51-ML-M412	FLAT SCREW M4X12MM	2
6	42-040	AERO COVLER (XS/S, M, L/XL)	2

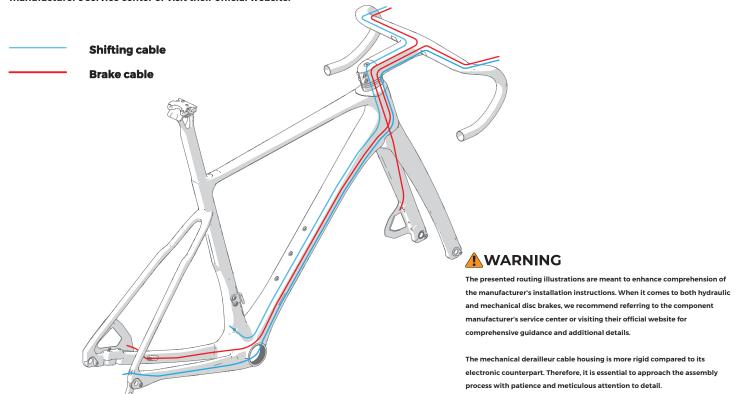
SHIMANO DI2 CABLE GUITE MAP

The provided routing illustrations serve as supplementary guidance to complement the manufacturer's official installation instructions. For comprehensive information, please consult the component manufacturer's service center or visit their official website.



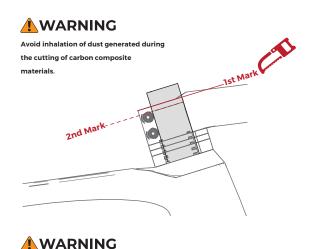
MECHANICAL CABLE GUITE MAP

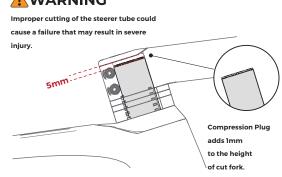
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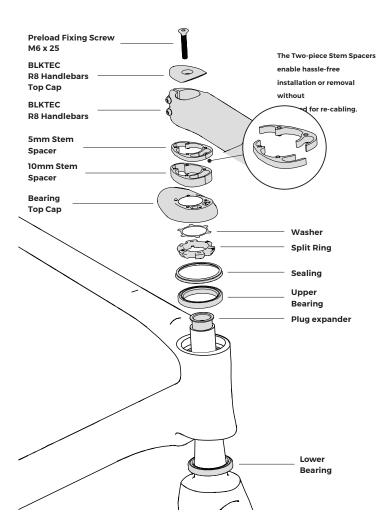


FORK PREPARATION & INSTALLATION

- O1. Apply grease to the bearing pockets and install the upper and lower headset bearings into the frame.
- O2. Fit the fork provided with your frame into the head tube with the complete headset, required spacers, and the stem.
- 03,Apply the minimum pressure needed to ensure the assembly is fully seated. Mark the steerer tube at the top of the stem.
- ₀₄ Remove fork and clearly mark the fork steerer tube at a point 5mm below the first mark. Take care to verify that this measurement is correct as this defines the cut line for the steerer tube.
- 05. To trim fork steerer, use only a saw suitable for cutting carbon, and a cutting guide. Insert
- 06, Compression Plug and tighten to hold in place. Do not apply final torque until after the stem is installed.
- O7. Place Lower Bearing over the fork steerer and insert into the frame from the bottom of the head tube.
- 08 Install over the steerer in order: Upper Bearing, Split Ring, Bearing Top Cap, Stem Spacers, and Stem. Do not install the Stem Top Cap.
- no Tighten the Compression Plug to 8Nm using a torque wrench.
- 10. Install the Stem Top Cap and Preload Fixing Screw into the stem. Tighten the Preload bolt only enough to remove all play from the headset, and ensure the bearings rotate freely (typically 1 to 2 Nm).
- 11. Tighten the stem to fork fixing bolts to 5Nm maximum.



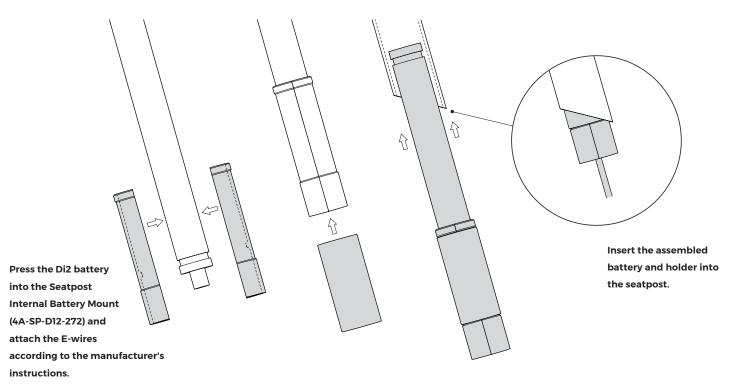




Your TRIGON AR01 frame and fork are meticulously crafted to function harmoniously. To ensure optimal performance, refrain from substituting the fork with a different size without prior consultation with TRIGON Customer Service to validate compatibility with your frame.

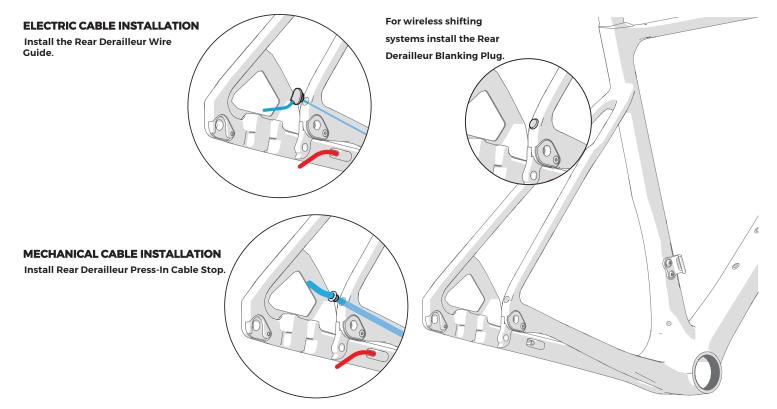
DI2 BATTERY INSTALLATION

The battery for your Shimano Di2 system mounts inside the seat tube using the Seatpost Internal Battery Mount (4A-SP-D12-272). As this is an enclosed location, it is important to test the system prior to final installation.



REAR CABLE ROUTING ASSEMBLY

Route the rear brake / shifting cable through the rear of the chainstay into the frame, taking care to select the correct cable-routing ports and hangers based on the gear shifting system.



FRAME DETAILS

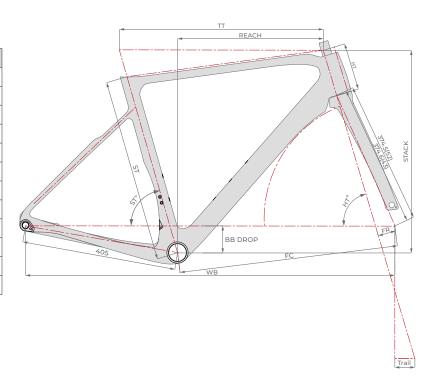
AR01	
Bike Name	AR01
Model Year	2023
Serial Numer Code	Below BB
Cockpit	BLKTEC/R8
Cockpit size	380-420mm / 80-140mm
Brake Mount Type	Flat Mount Disc
Chainstay Height (Flat Mount)	2 0 mm
Frame Sizes	XS/S/M/L/XL
Wheel Size	700c
ВВ Туре	T47 85.5mm
Headset Type	Integrated 1-1/2" x 1-1/2"

AR01	
Upper Headset Bearing Dimensions	1-1/2", 51. 8 x 40 x 7,, 45 °x45°
Lower Headset Bearing Dimensions	1-1/2", 51. 8 x 40 x 7,, 45 °x45°
Seatpost	SP190 (0 offset standard) SP184 (15mm offset)
Seatpost Expander	4A-S512-RQC40-ST
Rear Derailleur Hanger	16-026BR
Rear Derailleur Hanger part)	16-033AR, 16-027L
Front Derailleur Hanger	12-004
Front Thru-Axle Dimensions	12 x 100MM
Rear Thru-Axle Dimensions	12 x 142MM
Fork Dropout Insert	THD
Maximum Tire Width (Actual)	32mm with 4mm clearance*

^{*}Tire measurements shall be taken at the widest point of the tire when it is installed on the rim and inflated. 4mm of distance is required between the tire and any frame or fork element.

FRAME GEOMETRY

Frame Size	xs	s	М	L	XL
Reach	366.9	371.9	382.9	393	405
Stack	499.6	511.5	531	555	595
ST	420	440	480	520	540
TT	501.8	514.8	535.2	555.3	586.9
нт	90.8	102	122.8	145.1	187.8
HT Angle	70.8	71.7	72.8	73.6	73.6
ST Angle	75.3	74.7	74	73.7	73
FC	577.7	578.6	574.8	584.6	608.5
BB Drop	77.7	75.6	71	71	70
FR	52	52	43	43	43
WB	969.9	971.5	969.2	979	1003.3
Trail	66.1	59.8	61.3	56.2	56.2



CUSTOMER SUPPORT

Contacting Customer Support

Visit https://trigonbike.com/en/contact to submit a question to TRIGON.

Manuals

Visit https://trigonbike.com/en/downloads for additional information on TRIGON products.

Warranty

Visit https://trigonbike.com/en/article/172-warranty-guarantee for information on TRIGON's warranty policy.

NOTES			

