USER MANUAL

1st Edition. February, 2021



· RIDEA ES CRANKSETS

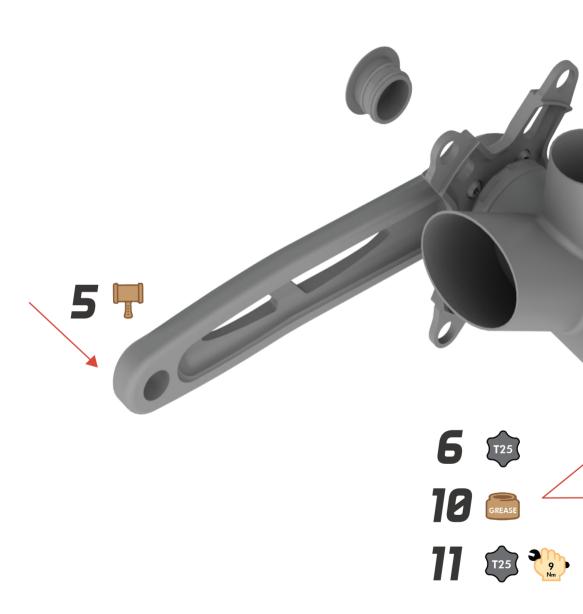


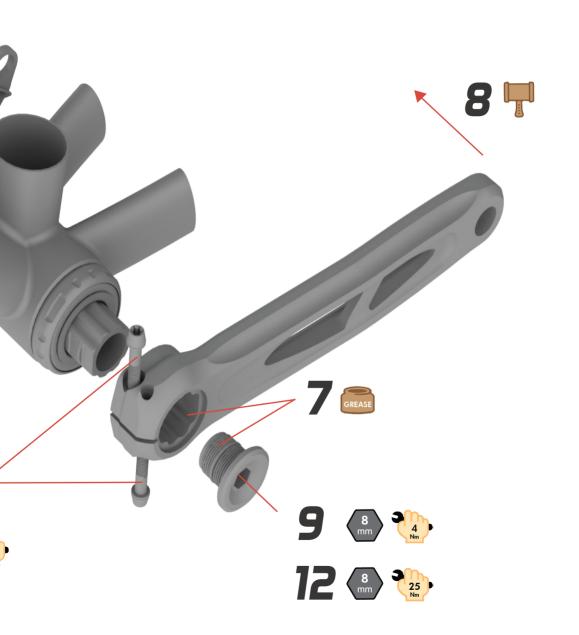
· RIDEA IT CRANKSETS



INSTALLATION DIAGRAM

For detailed installation information, please read pages 5-6.









- Single/Double Ring



- Single Ring



- Double Ring



- Single Ring



- Single/Double Ring





- Single/Double Ring



- Single Ring



- Double Ring



- Single Ring



- Single/Double Ring

USER MANUAL

Congratulations! You have purchased a piece of engineering that we, at Ridea, have made with passion. Enjoy your rides with your Ridea component as much as we enjoyed making it.

IMPORTANT NOTICE

Thank you for your purchase of a Ridea product. Please read thoroughly this user manual before proceeding with the installation of your new Ridea crankset. Although the installation process is easy to follow, we recommend taking your crankset to a professional bicycle mechanic with specialized tools to perform the installation.

Rider weight limit

Both ES and IT cranks are recommended for riders up to 100 kg. For your own safety, please refrain from using ES or IT cranks if your body weight is higher than 100 kg.

CONTENTS

- ES/IT right crank arm and spider
- ES/IT left crank arm
- Chainline adjuster 1 mm (1 piece)
- This user manual

LIST OF TOOLS

- Torque wrench
- T25 torx wrench
- 4 mm hex wrench
- 8 mm hex wrench
- Rubber mallet
- Grease

INSTALLATION

Both ES cranks and IT cranks follow the same installation procedure, detailed below.

Important note: Tightening to the recommended torque is important for your safety and for the performance and durability of your bicycle. Always use a torque wrench.

Chainring installation (chainrings not included)

1. Use a 4 mm hex wrench to tighten the chainring screws to 10 N m. Do not tighten to the final torque one screw before tightening the others. Instead, alternatively tighten each screw, switching between them, until all of them reach the recommended torque.

Crankset installation

- 2. Refer to bottom bracket manufacturer's user manual to perform its installation.
- **3.** Insert the right crank arm unit into the BB shell and measure the chainline. If needed, adjust it with the appropriate chainline adjusters. These should be installed in the crankset spindle, between the bottom bracket and the crankset.
- **4.** Remove the right crank arm unit from the BB shell to apply grease in the bearing contact areas of the spindle.
- **5.** Insert the right crank arm unit into the BB shell. If required, use a rubber mallet to tap the crank to make sure that the spindle is fully inserted into the BB shell.
- **6.** Remove both clamp bolts from left crank arm using a T25 torx wrench.
- **7.** Grease the spindle contact area of the left crank arm, as well as the thread of the left crank arm fixing bolt.
- 8. Insert the left crank arm into the spindle.
- **9.** Pre-tighten the left crank arm fixing bolt to 4 N m with an 8 mm hex wrench.
- 10. Grease the threads of both clamp bolts.
- 11. Tighten both clamp bolts to 9 N m. Tighten them bit a bit, alternating between bolts until their recommended torque.
- 12. Re-tighten the left crank arm fixing bolt to its final torque of $25 \ N$ m.

ES/IT CRANKSET REMOVAL

- 1. Completely remove left crank arm fixing bolt.
- 2. Completely remove both clamp bolts and take out the left crank. If required, use a rubber mallet to tap the crank to help you remove it.
- **3.** Slide the right crank arm and the spindle out of the BB shell. If required, use a rubber mallet to tap the spindle from the non-drive side to help you remove the crankset.

Tip: To remove right crank axle cap, thread a M5 screw (like the screw used in most quick releases) through the center hole to help you remove the cap. To insert the cap, push it inside by hand and tap it gently with a rubber mallet if required.

MAINTENANCE AND CARE OF THE CRANKSET

Clean your crankset with water and mild soap.

Check your Ridea product for wear, damage of any type and looseness before every ride and immediately after any crash or fall. **DO NOT** ride your bicycle if you find any damage on your Ridea product or in any other component of your bicycle.

Maintenance intervals greatly vary with riding conditions, distance ridden and intensity of your rides. In case of doubt about the status and condition of your crankset, please stop riding and check with a professional mechanic to perform a maintenance service.

It is important to periodically check the tightening torques of the bolts and to check if there is any play in the cranks (try to move the cranks laterally to feel if there is any play). If you feel any play or if the bolts are loose, tighten them to the correct torque again.

Less often, it is recommended to perform a full removal, cleaning, inspection, re-greasing and reinstalling of your crankset and bottom bracket unit.

CRANKS & LS- MSH1 CHAINRING

Spider model	ES MSH1
BCD	96 mm
No. of arms	4
Compatible chainrings	Ridea Powering MSH1 W2T
Crank arm length	135; 150; 155; 160; 167.5; 170; 172.5; 175; 177.5 mm
Weight	542 g (steel) 499 g (titanium)
Spider diameter	24mm
chain line	Single: 51.5mm



CHAINRING

LS- MSH1



32T	52g	30T	45g
34T	61g	32T	50g
36T	59g	34T	60g

WOT

36T | 65g 38T | 70g 40T | 75g

W2T

CRANKS & LF- R491 CHAINRING

Spider model	ES R491	IT R491		
BCD	110) mm		
No. of arms	2	4		
Compatible chainrings	Ridea Lami·Flow R4-91 series (single or double). Also compatible with any Shimano (R9100/8000/7000) compatible chainring.			
Crank arm length	155; 160; 165; 167.5; 170; 172.5; 175; 177.5; 180 mm 135; 140; 145; 150;155; 157,5; 160; 162,5; 165; 167.5; 170 mm			
Weight	548 g (steel) 498 g (titanium) 418 g (titanium)			
Spider diamete	24mm			
Chain line	Single: 48mm Double: 44.5mm			





LF- R491

compatible with SHIMANO cranksets

/ Single Ring /



WOT

38T	64g
40T	67g
42T	73g
44T	84g
46T	94g
48T	110g
50T	113g
52T	121g
54T	131g
56T	141g

W2T

46g 59g

65g 73g

| 81g | 95g

38T 40T 42T 44T
W3

W3T

INSET	Г Зтт
46T	105g
48T	115g
50T	130g

T

46T	94g
48T	100g
50T	116g
52T	123g
54T	131g
56T	140g

/ Double Ring /



WOT

50T/34T 52T/36T 53T/39T 56T/44T	156g 164g

W3T

50T/34T	152g
52T/36T	
53T/39T	172g

W2T

48T/32T	145g
50T/34T	152g
52T/36T	1 <i>7</i> 0g
53T/39T	171g

CRANKS & LF- R5MT CHAINRING

Spider model	ES R5MT	IT R5MT	
BCD	130+74 mm		
No. of arms	5		
Compatible chainrings	Ridea Lami·Flow R5-MT series (46-30t)		
Crank arm length	155; 160; 165; 167.5; 170; 135; 140; 145; 150;155; 157,5; 172.5; 175; 177.5; 180 mm 160; 162,5; 165; 167.5; 170 m		
Weight	567 g (steel) 517 g (titanium) 487 g (steel) 437 g (titanium)		
Spider diameter	24mm		
Chain line	Double: 46mm		





CHAINRING

LF- R5MT



LS- R5MT



W2T

46T/30T | 105g

CRANKS & LF- R5ST CHAINRING

Spider model	ES R5ST	іт ітѕт	IT ITFT
BCD		130 mm	
No. of arms		5	
Compatible chainrings	Ridea Lami·Flow R5-ST series (double or single) Ridea Lami·Flow R5-ST series (single only)		
Crank arm length	155; 160; 165; 167.5; 170; 172.5; 175; 177.5; 180 mm		
Weight	562 g (steel) 482 g (steel) 512 g (titanium) 432 g (titanium)		
Spider diameter	24mm		
Chain line	Single: 48mm Double: 44.5mm Single: 45mm		Single: 45mm







CRANKS & LF- R5ST SINGLE CHAINRING

Spider model	IT BCSA	ES BCSA
BCD	130 mm	
No. of arms	5	
Compatible chainrings	Ridea Lami-Flow R5-ST series (single only)	
Crank arm length	1 <i>7</i> 0 mm	
Weight	474 g (steel) 430 g (titanium)	555 g (steel) 510 g (titanium)
Spider diameter	24 mm	
Chain line	Single: 48mm	
Applicable	BROMPTON , MOULTON , DAHON , BIRDY	





CRANKS & LF- R5ST CHAINRING

Spider model	IT BCSB	ES BCSB
BCD	130 mm	
No. of arms	5	
Compatible chainrings	Ridea Lami-Flow R5-ST series (double or single)	
Crank arm length	1 <i>7</i> 0 mm	
Weight	491 g (steel) 446 g (titanium) 554 g (steel) 509 g (titanium)	
Spider diameter	24mm	
Chain line	Single: 51mm Double: 48mm	
Applicable	BROMPTON \ MOULTON \ DAHON	





CRANKS & LF- R5ST DOUBLE CHAINRING

Spider model	IT BCBD	ES BCBD
BCD	130 mm	
No. of arms	5	
Compatible chainrings	Ridea Lami·Flow R5-ST series (double only)	
Crank arm length	1 <i>7</i> 0 mm	
Weight	495 g (steel) 558 g (steel) 510 g (titanium)	
Spider diameter	24mm	
Chain line	Double: 51mm	
Applicable	BIRDY	





CHAINRING

LF- R5ST

/ Single Ring /



WOI		W3T
46T	88g	42T 68g
48T	101g	46T 91g
50T	111g	48T 98g
52T	113g	50T 105g
54T	119g	52T 112g
56T	126g	54T 118g
58T	133g	56T 120g
		58T 130a

/ Double Ring /



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w	w	40	•
ч	•	•	•

53T/39T | 142g 56T/44T | 174g 58T/46T | 192g

W2T

53T/40T | 155g

W3T

56T/44T | 176g

CRANKS & FF, LF, TF CHAINRING

Spider model	ES A5TT	ІТ Т5ТТ
BCD	144mm	
No. of arms	5	
Compatible chainrings	Ridea Turbulent·Flow, Lami·Flow, Full·Flow track series	
Crank arm length	155; 160; 165; 167.5; 170; 172.5; 175 mm	155; 160; 165; 170 mm
Weight	580 g (steel) 545 g (titanium)	510 g (steel) 475 g (titanium)
Spider diameter	24mm	
Chain line	Single: 44mm	





CHAINRING

F



46T | 110g 47T | 120g 48T | 130g 49T | 140g 50T | 150g 51T | 160g 52T | 170g

LF



47T | 80g 48T | 85g 49T | 90g 50T | 95g 51T | 100g 52T | 105g

TE



47T	110g	56T 210g	65T 329g
48T	120g	57T 228g	66T 341g
49T	130g	58T 243g	67T 355g
50T	140g	59T 254g	
51T	150g	60T 266g	
52T	160g	61T 276g	
53T	170g	62T 286g	
54T	180g	63T 303g	
5.5T	l 195a	64T 316g	



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