

OFF-ROAD INDEX

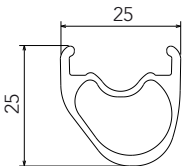
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SPARE PARTS

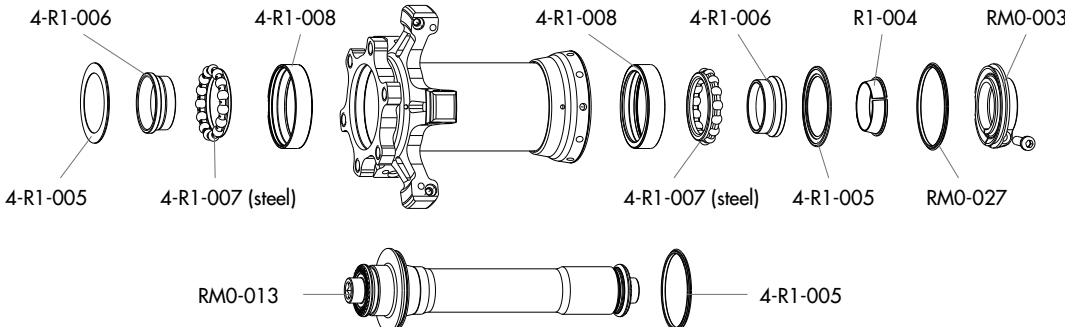
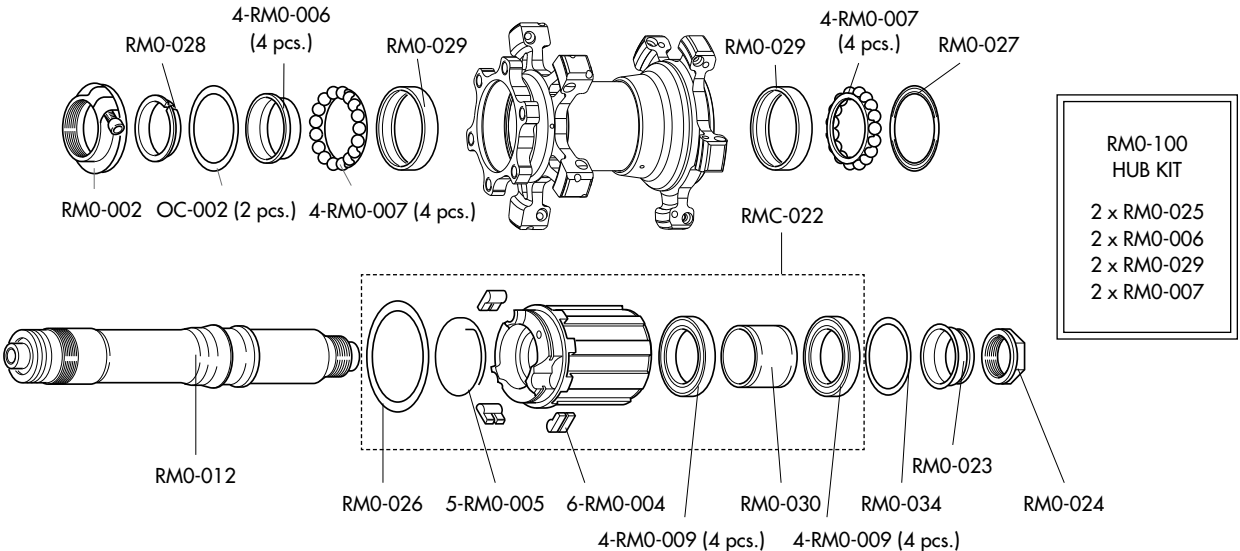
RED CARBON XRP 6 bolts

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
These Fulcrum® wheels have been designed and manufactured for use only on bicycles of the "cross-country" and "all mountain/enduro" types. Do not use them for downhill, freestyle, acrobatic, four-cross or any extreme off-road riding. Misuse of the wheel may result in an accident, personal injury or death.	RMC-11DFRK	FRONT+REAR	front QR - rear QR	1.470
	RMC-11DFK RMC-11DRK	front rear	QR QR	645 825

RIM

	FRONT RIM REAR RIM LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RMCF-DRK01 (with labels) RMCR-DRK (with labels) RMC-LAB11DK (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

	QUICK-RELEASE RM0-QFR front + rear
	

SPOKES

COMPLETE FRONT KIT COMPLETE REAR KIT COMPLETE SPOKE Front RH/Rear RH COMPLETE SPOKE Front LH COMPLETE SPOKE Rear LH NIPPLES SPOKE SPANNER	RMCF-DSK01 RMCR-DSK01 RMCF-DSR01 RMCF-DSL01 RMCR-DSL01 RMC-B T-20	10 spokes front LH + 10 spokes front RH + 20 nipples 10 spokes rear LH + 10 spokes rear RH + 20 nipples spoke + nipple spoke + nipple spoke + nipple 10 pcs. spoke wrench
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NOTES

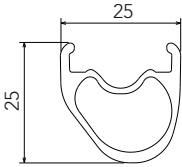
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2012 OFF-ROAD TECHNICAL MANUAL

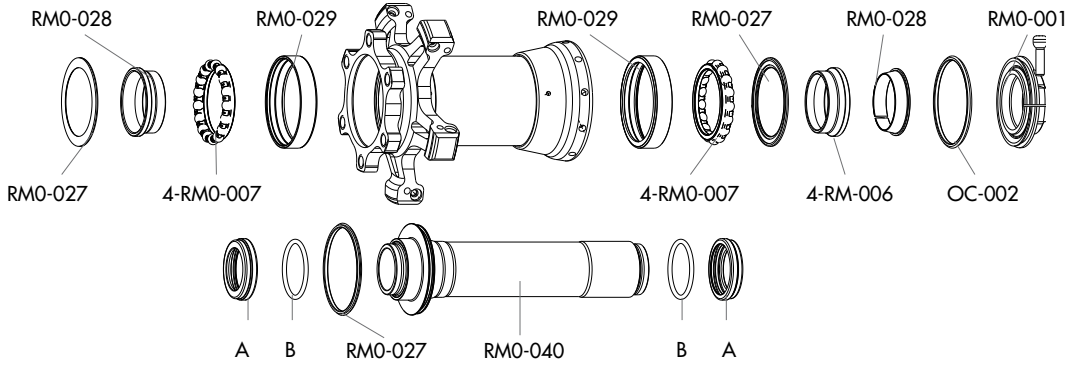
RED CARBON XRP front 15mm thru axle

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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RIM

	FRONT RIM LABEL KIT VALVE HOLE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RMCF-DRK01 (with labels) RMC-LAB11DK (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

		
KIT 15 thru-axle	RM11-TA15	for front wheel (2A + 2B)

SPOKES

COMPLETE FRONT KIT COMPLETE SPOKE Front RH COMPLETE SPOKE Front LH NIPPLES SPOKE SPANNER	RMCF-DSK02 RMCF-DSR01 RMCF-DSL02 RMC-B T-20	10 spokes front LH + 10 spokes front RH + 20 nipples spoke + nipple spoke + nipple 10 pcs. spoke wrench
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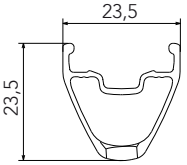
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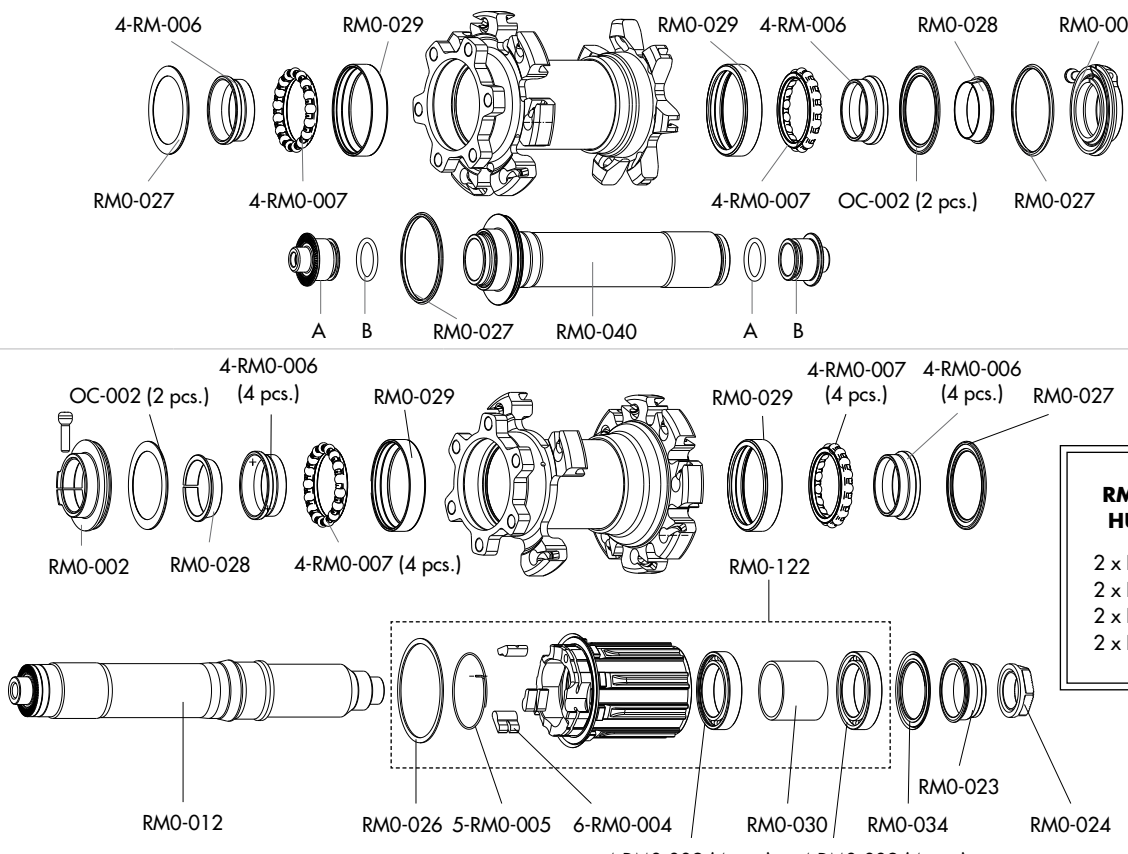
RED METAL ZERO XRP disc 6 bolts

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RM0-11DRB	FRONT+REAR red/black	front QR+kit 15 thru axle - rear QR	1.470
	RM0-11DFB	front black	QR+kit 15 thru axle	670
	RM0-11DFBR	front red/black	QR+kit 15 thru axle	670
	RM0-11DRB	rear black	QR	800
	RM0-11DRBR	rear red/black	QR	800

RIM

	FRONT RIM REAR RIM LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RM0F-DRR01 (red - with labels) - RM0F-DRB01 (black - with labels) RM0R-DRR (red - with labels) - RM0R-DRB (black - with labels) RM0-LAB11DRB (red & black - FRONT+REAR) - RM0-LAB11DB (black - FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

		
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> RM0-100 HUB KIT 2 x RM0-025 2 x RM0-006 2 x RM0-029 2 x RM0-007 </div>		
KIT QR	RM11-TAQR	for front wheel (2A + 2B)
KIT 15 thru-axle	RM11-TA15	for front wheel - from QR to 15mm thru axle
QUICK-RELEASE	RM0-QFR	front + rear

SPOKES

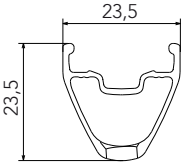
COMPLETE FRONT KIT	RM0F-DSK01	14 spokes front RH + 7 spokes front LH + 21 nipples
COMPLETE REAR KIT	RM0R-DSK01	8 spokes rear LH + 16 spokes rear RH + 24 nipples
COMPLETE SPOKE Front RH	RM0F-DSR01	spoke + nipple
COMPLETE SPOKE Front LH	RM0F-DSL01	spoke + nipple
COMPLETE SPOKE Rear RH	RM0R-DSR01	spoke + nipple
COMPLETE SPOKE Rear LH	RM0R-DSL01	spoke + nipple
NIPPLES	RM0-B	10 pcs.
SPOKE RING	T-02	spoke anti-rotation
NIPPLE INSERT	T-03	magnet-attractor for nipple
NIPPLE MAGNET	T-05	nipple-guide
SPOKE SPANNER	T-07	spoke wrench

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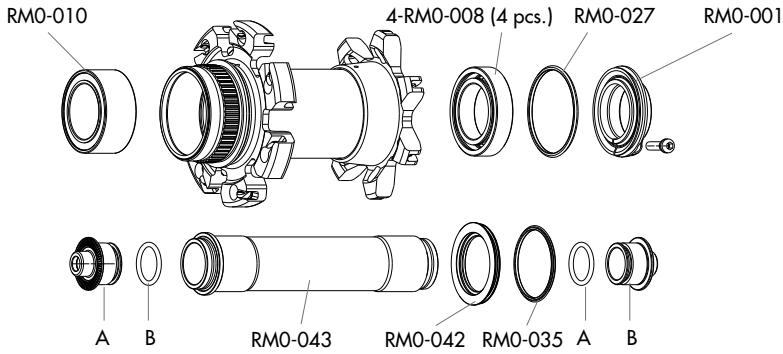
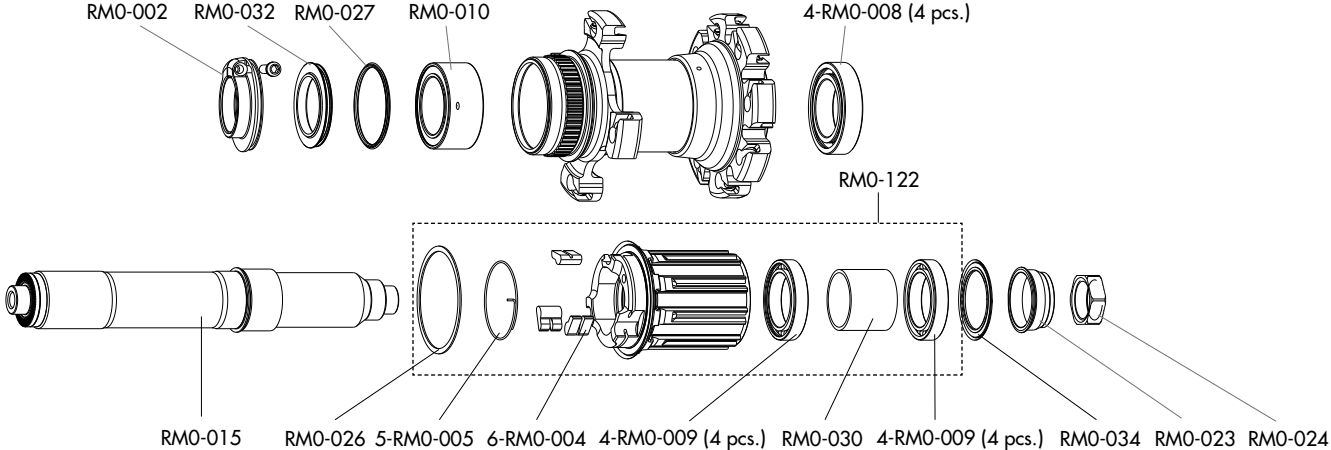
RED METAL ZERO XRP disc AFS (front QR/15mm thru axle - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RM0-11DFBRAFS	FRONT+REAR red/black	front QR+kit 15 thru axle - rear QR	1.470
	RM0-11DFBBAFS	front black	QR+kit 15 thru axle	670
	RM0-11DFBRAFS	front red/black	QR+kit 15 thru axle	670
	RM0-11DRBAFS	rear black	QR	800
	RM0-11DRBAFS	rear red/black	QR	800

RIM

	FRONT RIM REAR RIM LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RM0F-DRR01 (red - with labels) - RM0F-DRB01 (black - with labels) RM0R-DRR (red - with labels) - RM0R-DRB (black - with labels) RM0-LAB11DRB (red & black - FRONT+REAR) - RM0-LAB11DB (black - FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

KIT QR	RM11-TAQR	for front wheel (2A + 2B)
KIT 15 thru-axle	RM11-TA15	for front wheel - from QR to 15mm thru axle
QUICK-RELEASE	RM0-QFR	front + rear
AFS LOCKRING	4-M1-101	to fix the brake disc
AFS LOCKRING TOOL	UT-BB130	

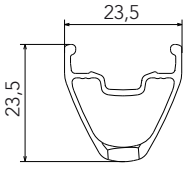
SPOKES

COMPLETE FRONT KIT COMPLETE REAR KIT COMPLETE SPOKE Front RH COMPLETE SPOKE Front LH COMPLETE SPOKE Rear RH COMPLETE SPOKE Rear LH NIPPLES SPOKE RING NIPPLE INSERT NIPPLE MAGNET SPOKE SPANNER	RM0F-DSK01 RM0R-DSK01 RM0F-DSR01 RM0F-DSL01 RM0R-DSR01 RM0R-DSL01 RM0-B T-02 T-03 T-05 T-07	14 spokes front RH + 7 spokes front LH + 21 nipples 8 spokes rear LH + 16 spokes rear RH + 24 nipples spoke + nipple spoke + nipple spoke + nipple spoke + nipple 10 pcs. spoke anti-rotation magnet-attractor for nipple nipple-guide spoke wrench
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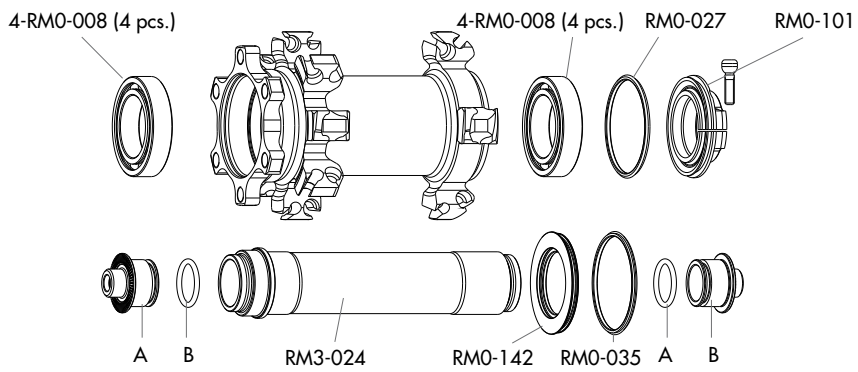
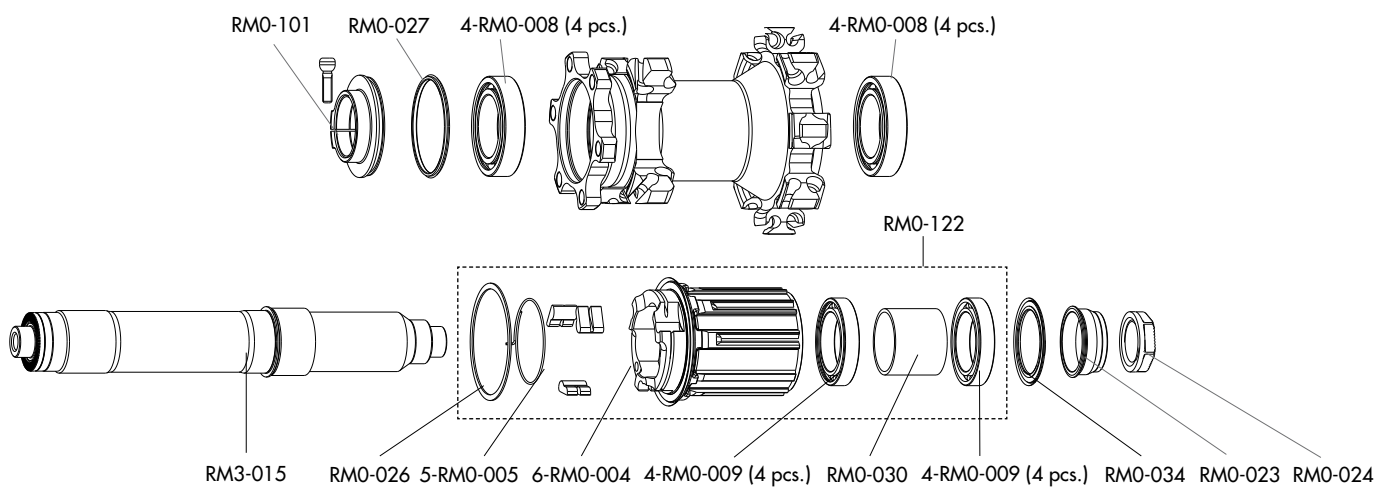
RED METAL 1 XL disc 6 bolts (front QR/15mm thru axle - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RM1-11DFB	front	QR+kit 15 thru axle	735
	RM1-10DRB	rear	QR	915

RIM

	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RM1F-DRB01 (with labels) RM1-LAB10DB (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

		
		
KIT QR	RM11-TAQR	for front wheel (2A + 2B)
KIT 15 thru-axle	RM11-TA15	for front wheel - from QR to 15mm thru axle
QUICK-RELEASE	RM0-QFR	front + rear

SPOKES

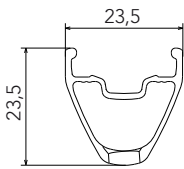
SPOKES Front RH/Rear LH	RM1-DS11	8 spokes + 8 nipples
SPOKES Front LH/Rear RH	RM1-DS12	8 spokes + 8 nipples
NIPPLES	RM0-B	10 pcs.
SPOKE RING	T-02	spoke anti-rotation
NIPPLE INSERT	T-10	magnet-attractor for nipple
NIPPLE MAGNET	T-05	nipple-guide
SPOKE SPANNER	T-07	spoke wrench

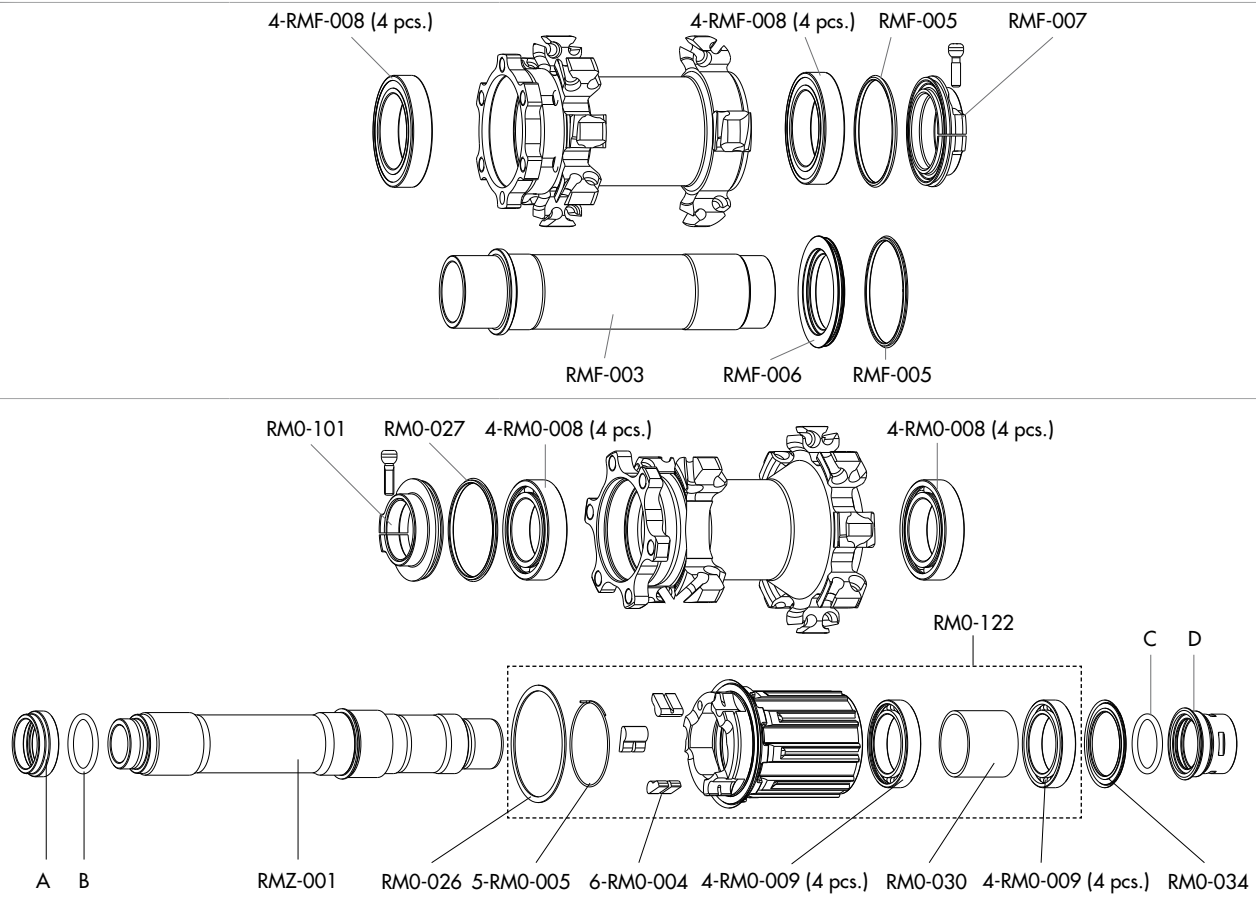
NOTES

2012 OFF-ROAD TECHNICAL MANUAL

RED METAL 1 XL disc 6 bolts (front 20mm t.a. - rear 12mm t.a. 135/142)

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RIM	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RM1F-DRB01 (with labels) RM1-LAB10DB (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
		

HUBS		
A+B+C+D	135 mm O.L.D.	KIT-X12
A+B+C+D	142 mm O.L.D.	RM11-TA12

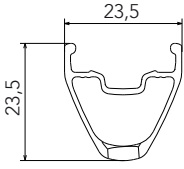
SPOKES	RM1-DS11 RM1-DS12 RM0-B T-02 T-10 T-05 T-07	8 spokes + 8 nipples 8 spokes + 8 nipples 10 pcs. spoke anti-rotation magnet-attractor for nipple nipple-guide spoke wrench
SPOKES Front RH/Rear LH SPOKES Front LH/Rear RH NIPPLES SPOKE RING NIPPLE INSERT NIPPLE MAGNET SPOKE SPANNER		

NOTES

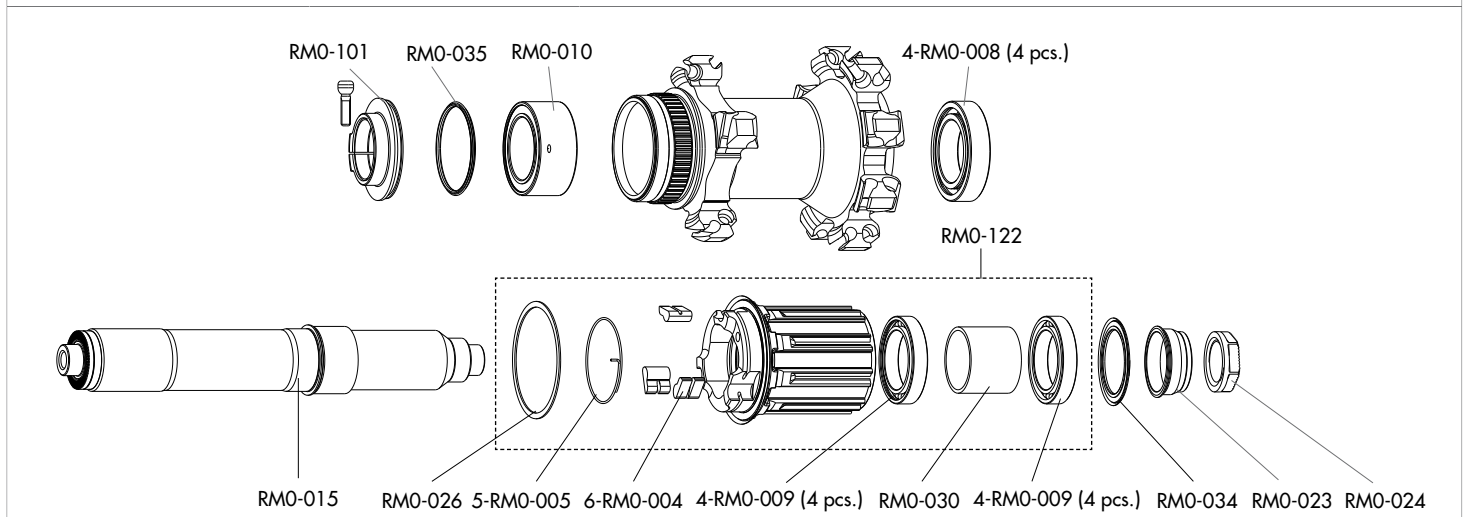
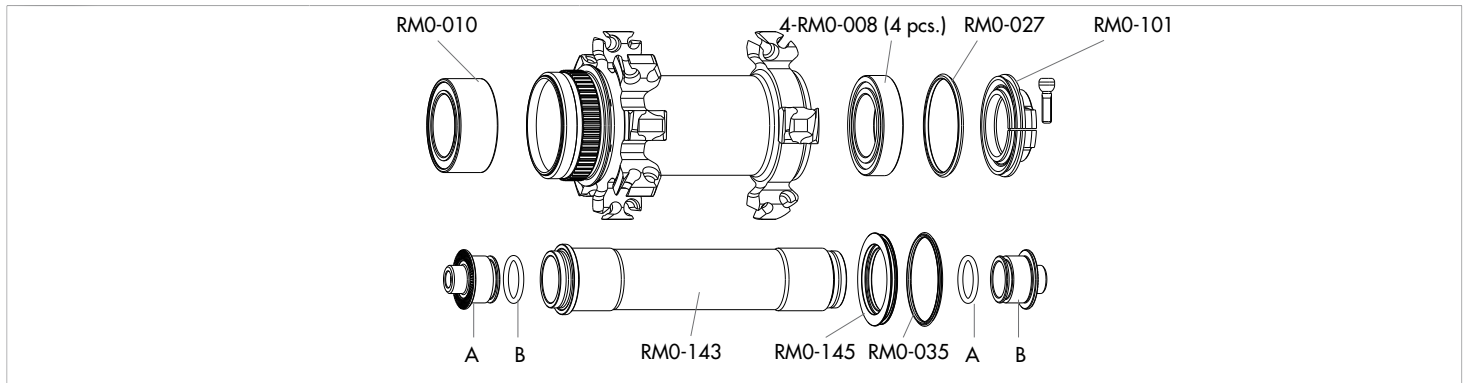
RED METAL 1 XL AFS (front QR/15mm thru axle - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RM1-11DFBAFS	front	QR+kit 15 thru axle	735
	RM1-10DRBAFS	rear	QR	915

RIM

	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RM1F-DRB01 (with labels) RM1-LAB10DB (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS



KIT QR	RM11-TAQR	for front wheel (2A + 2B)
KIT 15 thru-axle	RM11-TA15	for front wheel - from QR to 15mm thru axle
QUICK-RELEASE	RM0-QFR	front + rear
AFS LOCKRING	4-M1-101	to fix the brake disc
AFS LOCKRING TOOL	UT-BB130	

SPOKES

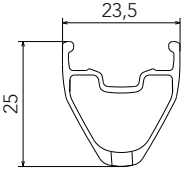
SPOKES Front RH/Rear LH	RM1-DS11	8 spokes + 8 nipples
SPOKES Front LH/Rear RH	RM1-DS12	8 spokes + 8 nipples
NIPPLES	RM0-B	10 pcs.
SPOKE RING	T-02	spoke anti-rotation
NIPPLE INSERT	T-10	magnet-attractor for nipple
NIPPLE MAGNET	T-05	nipple-guide
SPOKE SPANNER	T-07	spoke wrench

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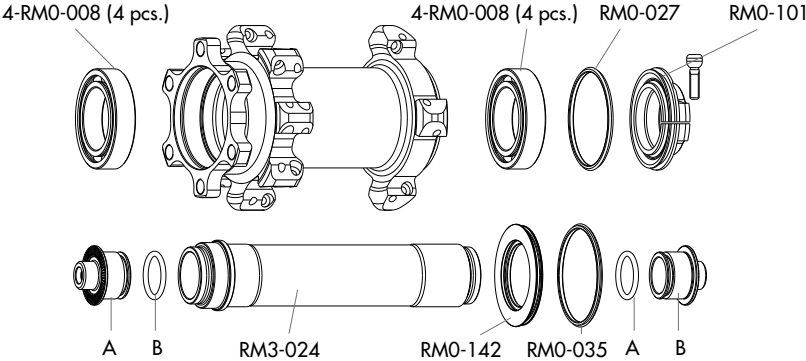
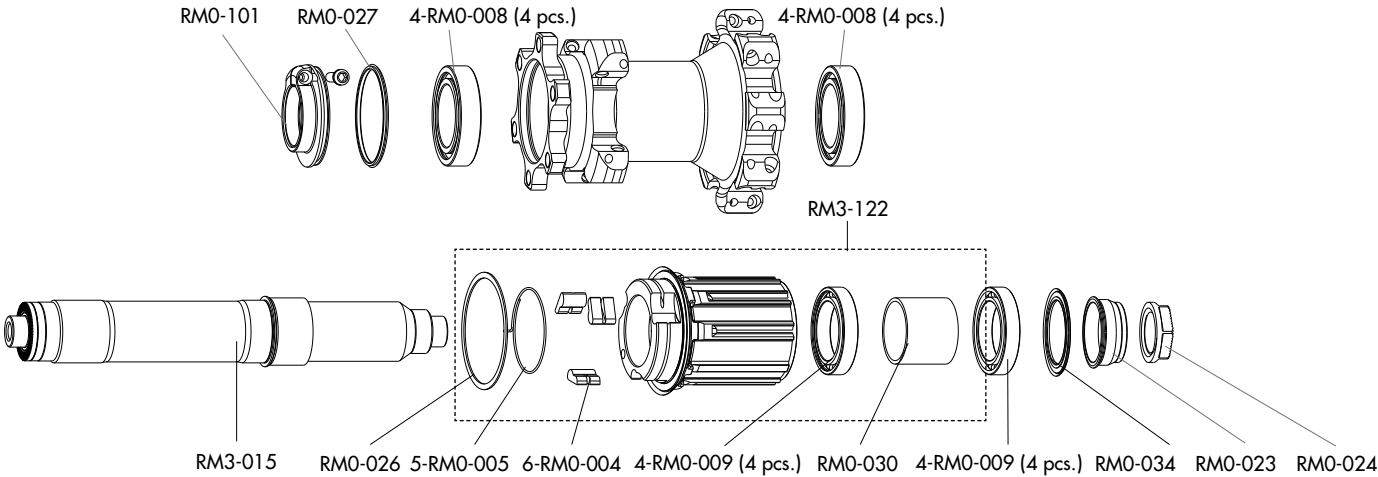
RED METAL 3 disc 6 bolts (front QR/15mm thru axle - rear QR)

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	RM3-11DFB	front	QR+kit 15 thru axle	745
	RM3-10DRB	rear	QR	940

RIM

	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RM3F-DRB01 (with labels) RM3-LAB10DB (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

	KIT QR KIT 15 thru-axle QUICK-RELEASE	RM11-TAQR RM11-TA15 RM0-QFR	for front wheel (2A + 2B) for front wheel - from QR to 15mm thru axle front + rear
			

SPOKES

SPOKES Front RH/Rear LH SPOKES Front LH SPOKES Rear RH NIPPLES SPOKE RING NIPPLE INSERT NIPPLE MAGNET SPOKE SPANNER	RM3-DS11 RM3-DS12 RMZ-DS02 RM3-B T-02 T-10 T-05 T-07	8 spokes + 8 nipples 8 spokes + 8 nipples 8 spokes + 8 nipples 50 pcs. spoke anti-rotation magnet-attractor for nipple nipple-guide spoke wrench
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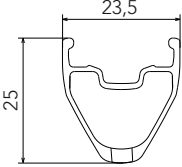
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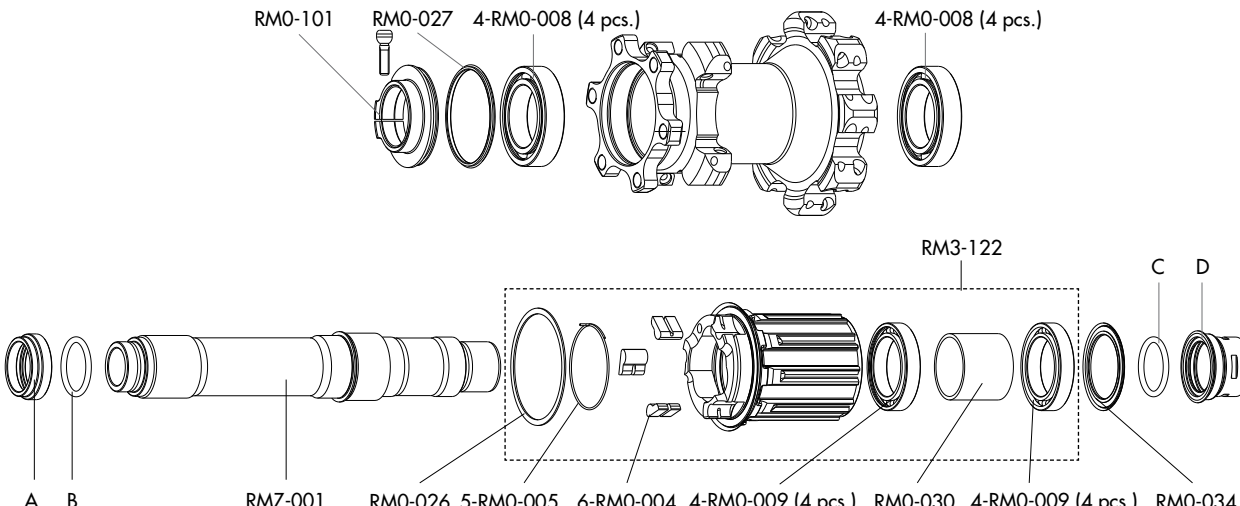
RED METAL 3 disc 6 bolts (rear 12mm thru axle 135/142)

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RIM

	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RM3F-DRB01 (with labels) RM3-LAB10DB (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

		
A+B+C+D	135 mm O.L.D.	KIT-X12
A+B+C+D	142 mm O.L.D.	RM11-TA12

SPOKES

SPOKES Rear LH	RM3-DS11	8 spokes + 8 nipples
SPOKES Rear RH	RMZ-DS02	8 spokes + 8 nipples
NIPPLES	RM3-B	50 pcs.
SPOKE RING	T-02	spoke anti-rotation
NIPPLE INSERT	T-10	magnet-attractor for nipple
NIPPLE MAGNET	T-05	nipple-guide
SPOKE SPANNER	T-07	spoke wrench

NOTES

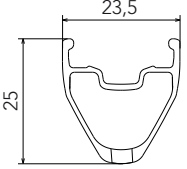
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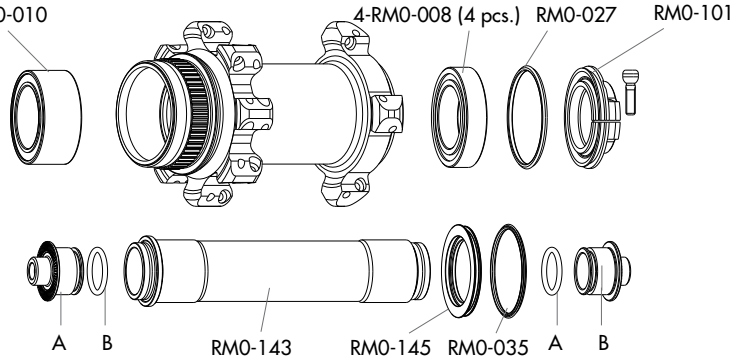
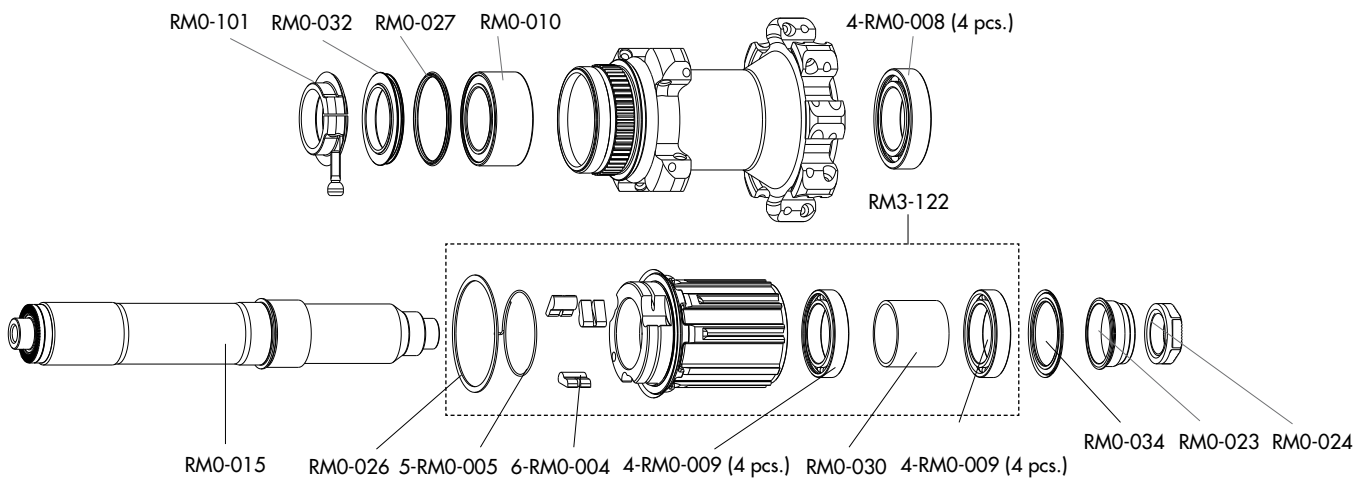
RED METAL 3 disc AFS (front QR/15mm thru axle - rear QR)

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	RM3-11DFBBAFS	front	QR+kit 15 thru axle	745
	RM3-10DRBAFS	rear	QR	940

RIM

	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RM3F-DRB01 (with labels) RM3-LAB10DB (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

		
		
KIT QR	RM11-TAQR	for front wheel (2A + 2B)
KIT 15 thru-axle	RM11-TA15	for front wheel - from QR to 15mm thru axle
QUICK-RELEASE	RM0-QFR	front + rear
AFS LOCKRING	4-M1-101	to fix the brake disc
AFS LOCKRING TOOL	UT-BB130	

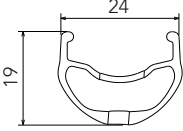
SPOKES

SPOKES Front RH/Rear LH	RM3-DS11	8 spokes + 8 nipples
SPOKES Front LH	RM3-DS12	8 spokes + 8 nipples
SPOKES Rear RH	RMZ-DS02	8 spokes + 8 nipples
NIPPLES	RM3-B	50 pcs.
SPOKE RING	T-02	spoke anti-rotation
NIPPLE INSERT	T-10	magnet-attractor for nipple
NIPPLE MAGNET	T-05	nipple-guide
SPOKE SPANNER	T-07	spoke wrench

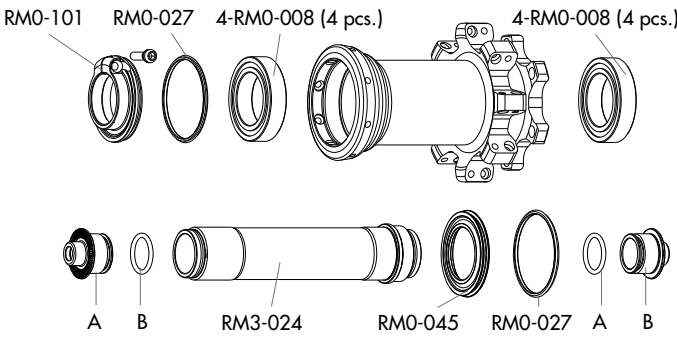
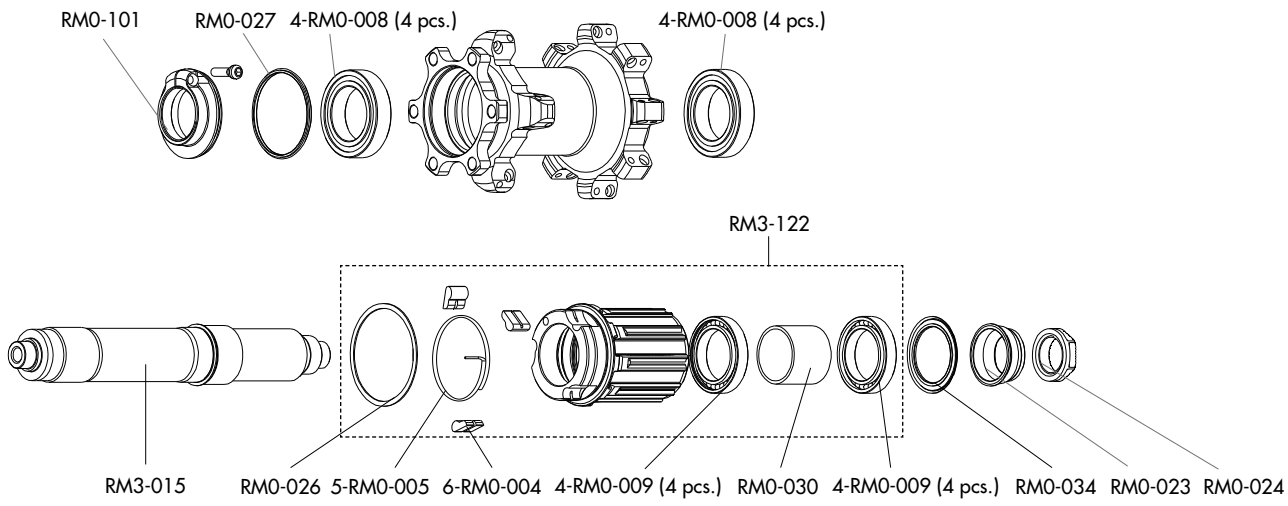
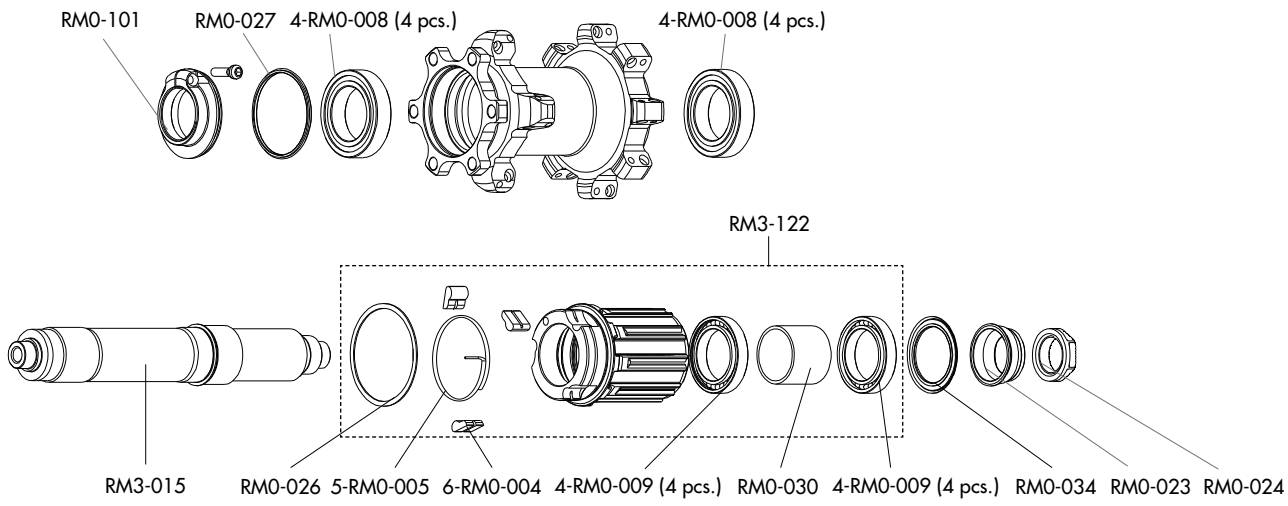
RED POWER XL disc 6 bolts (front QR/15mm thru axle - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
These Fulcrum® wheels have been designed and manufactured for use only on bicycles of the "cross-country" and "all mountain/enduro" types. Do not use them for downhill, freestyle, acrobatic, four-cross or any extreme off-road riding. Misuse of the wheel may result in an accident, personal injury or death.	RPX-12DFRB5	FRONT+REAR	front QR+kit 15 thru axle - rear QR	1.740
	RPX-12DFB	front	QR+kit 15 thru axle	790
	RPX-12DRB	rear	QR	950

RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RPX-LAB12DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RPX-RT 559 X 19C See section table and inflation pressures on page 34
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HUBS

	KIT QR RM11-TAQR for front wheel (2A + 2B)
	KIT 15 thru-axle RM11-TA15 for front wheel - from QR to 15mm thru axle
	QUICK-RELEASE RM5-QFR front + rear

SPOKES

SPOKES Front RH	RPX-DS01	8 spokes + 8 nipples
SPOKES Front LH	RPX-DS02	8 spokes + 8 nipples
SPOKES Rear RH	RPX-DS03	8 spokes + 8 nipples
SPOKES Rear LH	RMH-DS02	8 spokes + 8 nipples

NOTES

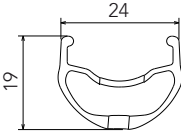
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2012 OFF-ROAD TECHNICAL MANUAL

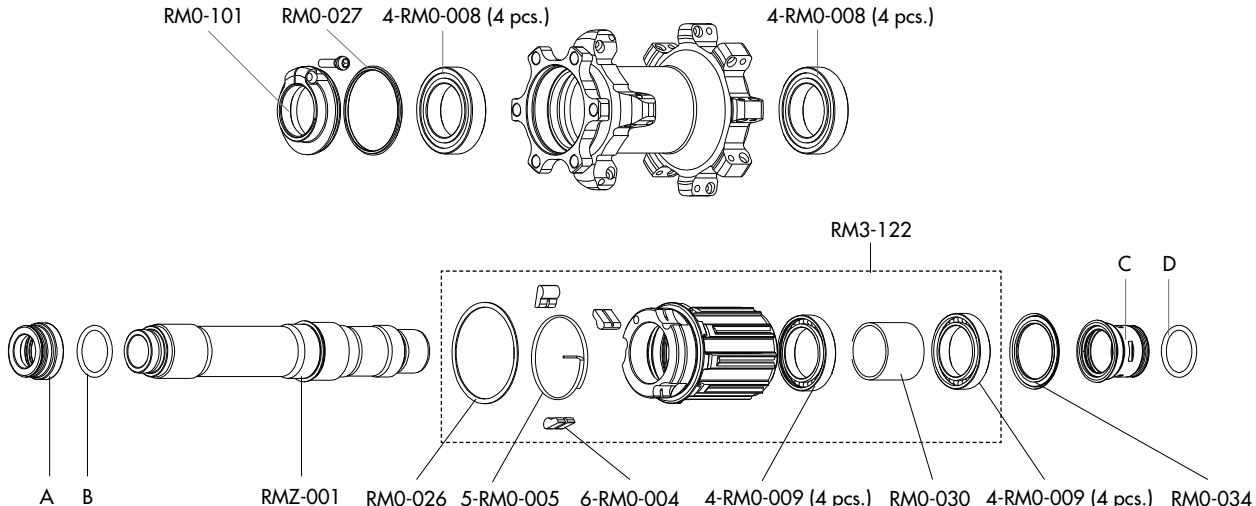
RED POWER XL disc 6 bolts (rear 12mm thru axle 142/135)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RPX-LAB12DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RPX-RT 559 X 19C See section table and inflation pressures on page 34
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HUBS

		
A+B+C+D	135 mm O.L.D.	KIT-X12
A+B+C+D	142 mm O.L.D.	RM11-TA12

SPOKES

SPOKES Rear RH	RPX-DS03	8 spokes + 8 nipples
SPOKES Rear LH	RMH-DS02	8 spokes + 8 nipples

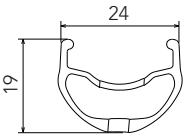
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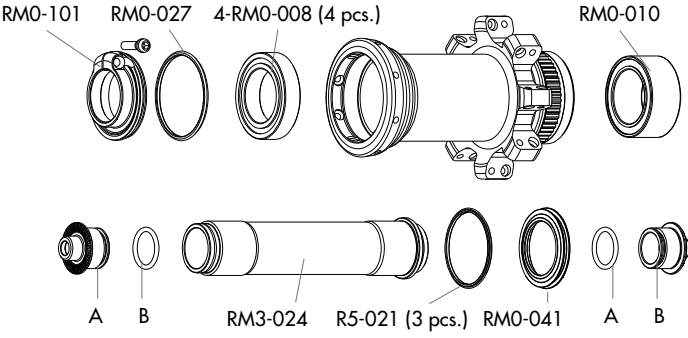
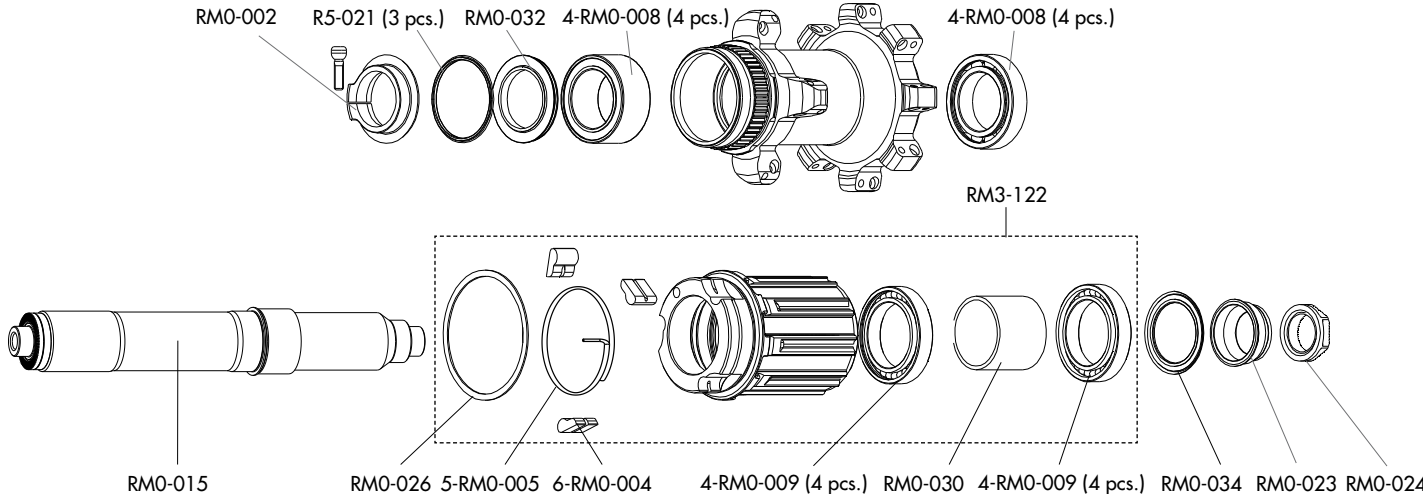
RED POWER XL disc AFS (front QR/15mm thru axle - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RPX-12DFB	front	QR+kit 15 thru axle	790
	RPX-12DRB	rear	QR	950

RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RPX-LAB12DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RPX-RT 559 X 19C See section table and inflation pressures on page 34
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HUBS

	KIT QR RM11-TAQR for front wheel (2A + 2B)
	KIT 15 thru-axle RM11-TA15 for front wheel - from QR to 15mm thru axle
QUICK-RELEASE RM5-QFR front + rear	
AFS LOCKRING 4-M1-101 to fix the brake disc	
AFS LOCKRING TOOL UT-BB130	

SPOKES

SPOKES Front RH	RPX-DS01	8 spokes + 8 nipples
SPOKES Front LH	RPX-DS02	8 spokes + 8 nipples
SPOKES Rear RH	RPX-DS03	8 spokes + 8 nipples
SPOKES Rear LH	RMH-DS02	8 spokes + 8 nipples

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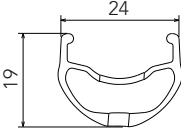
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2012 OFF-ROAD TECHNICAL MANUAL

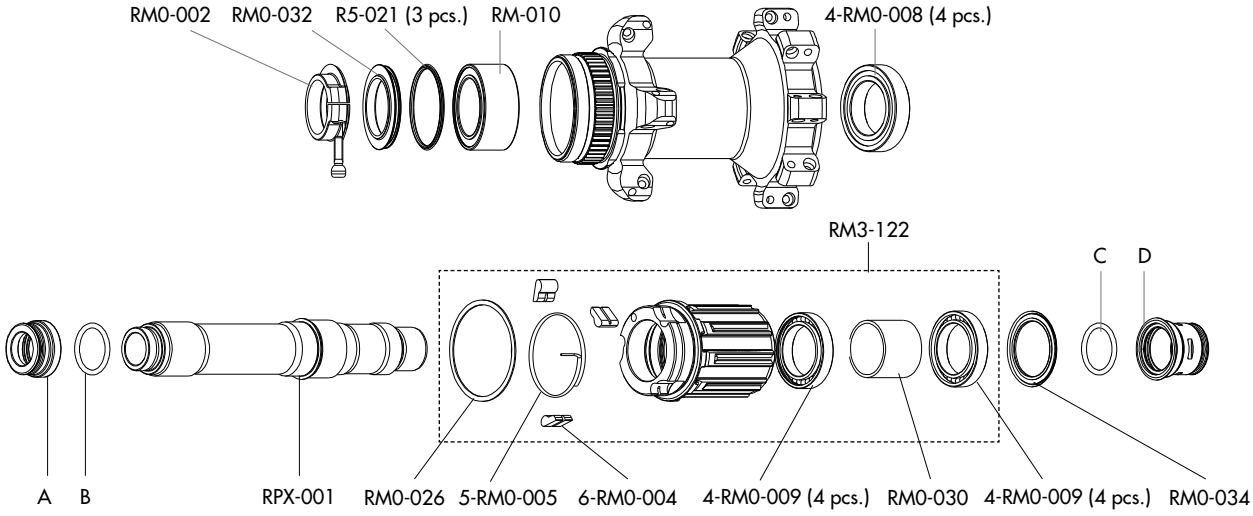
RED POWER XL disc AFS (rear 12mm thru axle 142/135)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RPX-LAB12DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RPX-RT 559 X 19C See section table and inflation pressures on page 34
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HUBS

		
A+B+C+D	135 mm O.L.D.	KIT-X12AFS
A+B+C+D	142 mm O.L.D.	RM11-TA12
AFS LOCKRING	4-M1-101	to fix the brake disc
AFS LOCKRING TOOL	UT-BB130	

SPOKES

SPOKES Rear RH	RPX-DS03	8 spokes + 8 nipples
SPOKES Rear LH	RMH-DS02	8 spokes + 8 nipples

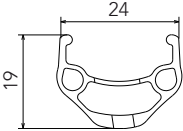
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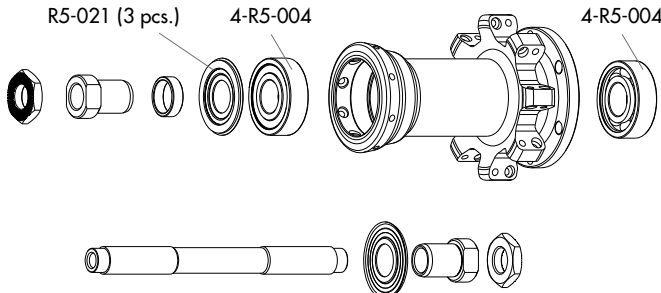
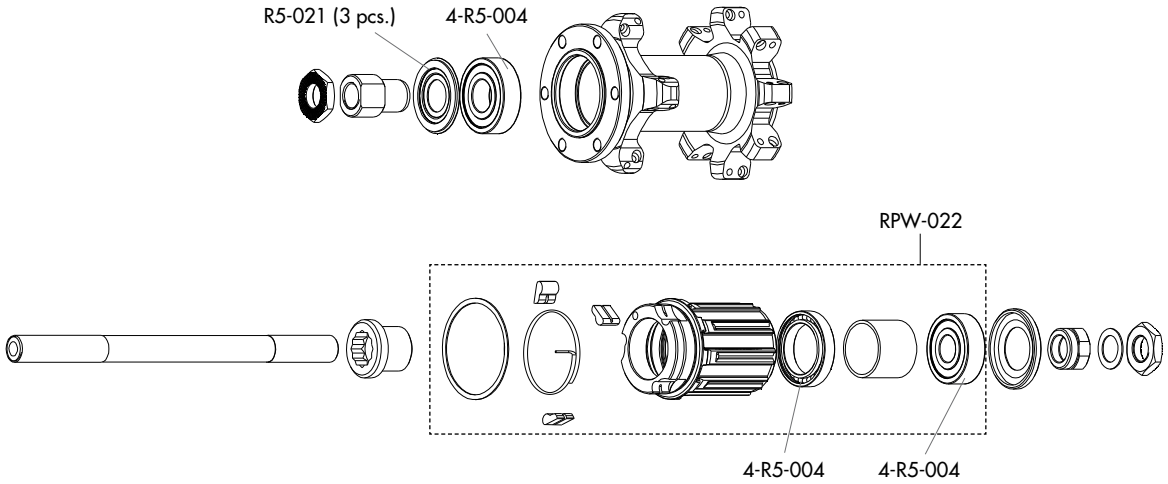
RED POWER SL disc 6 bolts (front QR - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RPS-12DFB	front	QR	876
	RPS-12DRB	rear	QR	1.083

RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RPS-LAB12DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RPX-RT 559 X 19C See section table and inflation pressures on page 34
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HUBS

		
		
QUICK-RELEASE	RM5-QFR	front + rear

SPOKES

SPOKES Front RH	RPS-DS02	8 spokes + 8 nipples
SPOKES Front LH/Rear RH	RPS-DS01	8 spokes + 8 nipples
SPOKES Rear LH	RPS-DS03	8 spokes + 8 nipples

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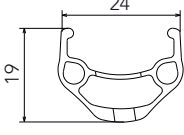
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2012 OFF-ROAD TECHNICAL MANUAL

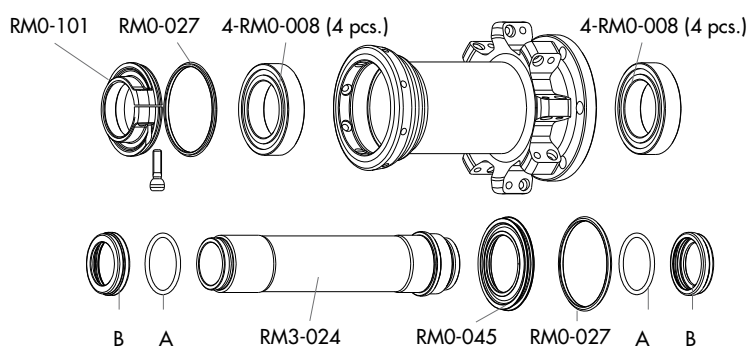
RED POWER SL front 15mm thru axle

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RPS-LAB12DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RPX-RT 559 X 19C See section table and inflation pressures on page 34
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HUBS

		
KIT 15 thru-axle	RM11-TA15	for front wheel (2A + 2B)

SPOKES

SPOKES Front RH SPOKES Front LH	RPS-DS04 RPS-DS01	8 spokes + 8 nipples 8 spokes + 8 nipples
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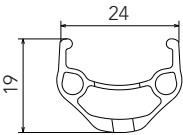
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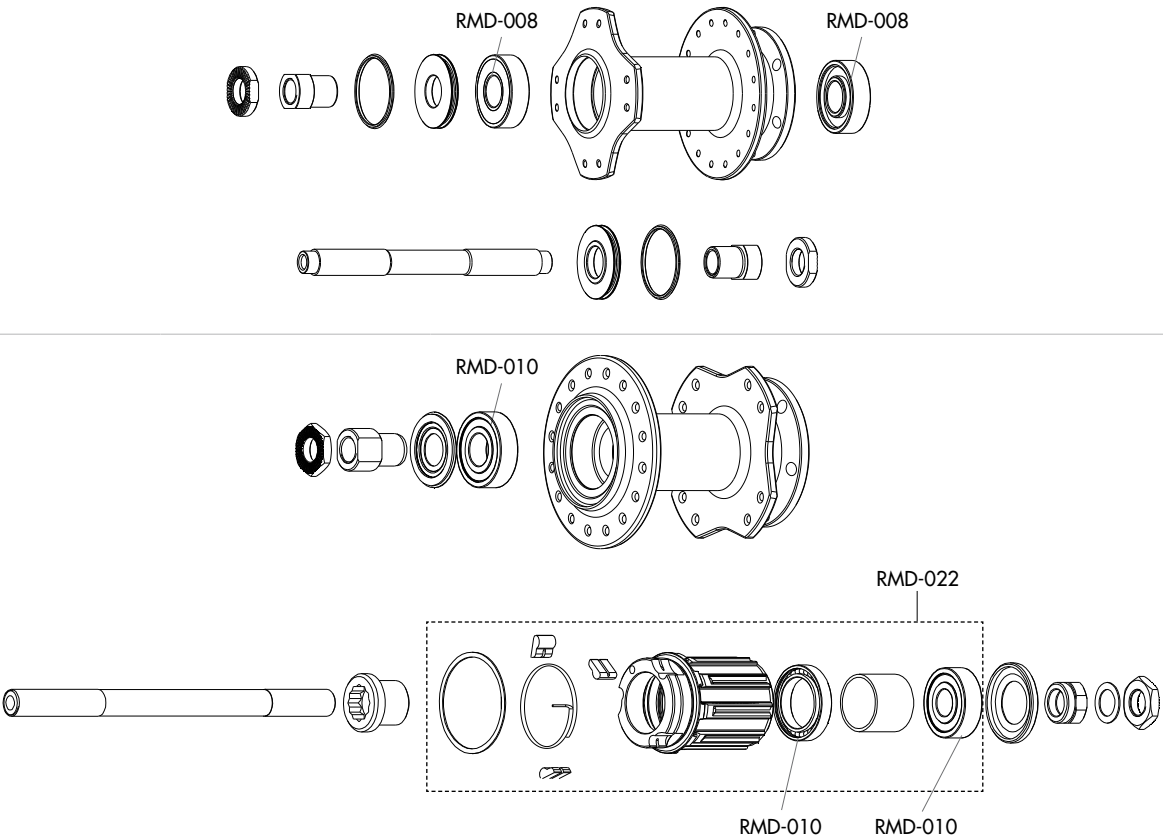
RED POWER disc 6 bolts (front QR - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RPW-1 2DFB	front	QR	876
	RPW-1 2DRB	rear	QR	1.083

RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RPW-LAB1 2DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RPX-RT 559 X 19C See section table and inflation pressures on page 34
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HUBS

		
QUICK-RELEASE	RM5-QFR	front + rear

SPOKES

SPOKES Front RH/Rear LH	RMD-DS01	8 spokes + 8 nipples
SPOKES Front LH/Rear RH	RMD-DS02	8 spokes + 8 nipples

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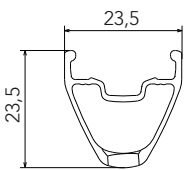
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2012 OFF-ROAD TECHNICAL MANUAL

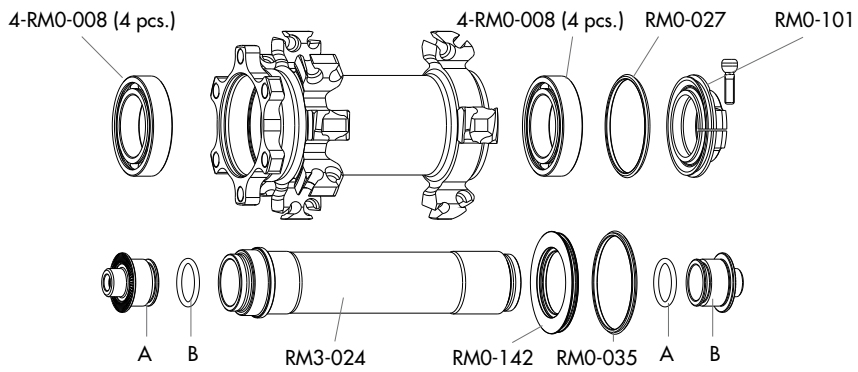
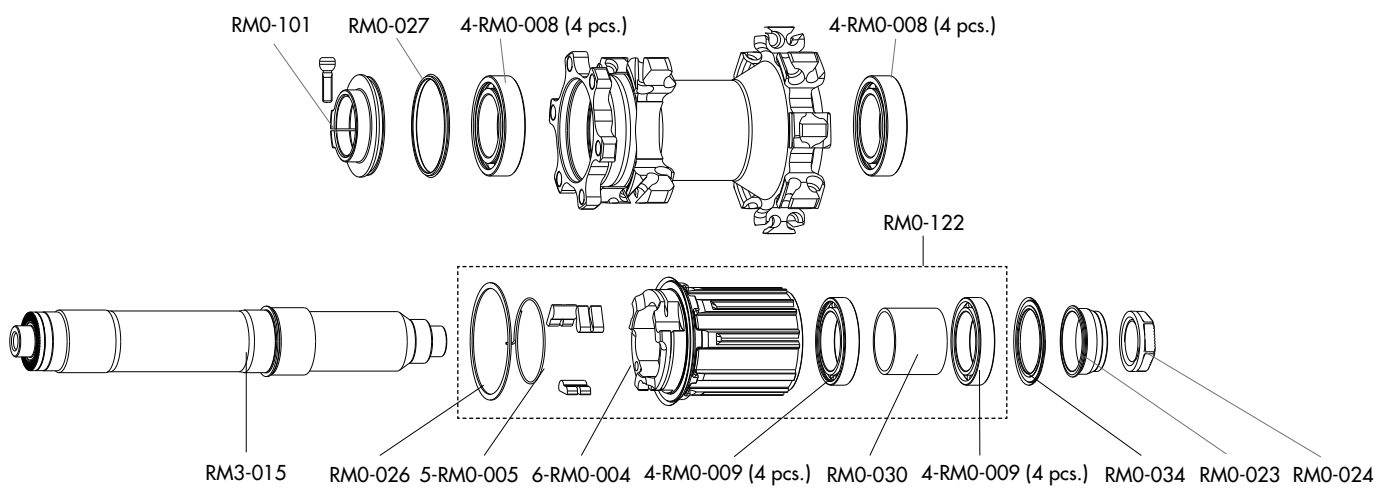
RED METAL 29 XL disc 6 bolts (front QR/15mm thru axle - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RMX-11DFB	front	QR	780
	RMX-11DRB	rear	QR	970

RIM

	FRONT RIM REAR RIM LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RMXF-DRB01 (with labels) RMXR-DRB (with labels) RMX-LAB11DB (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 29 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

	KIT QR KIT 15 thru-axle QUICK-RELEASE	RM11-TAQR RM11-TA15 RM0-QFR	for front wheel (2A + 2B) for front wheel - from QR to 15mm thru axle front + rear
	SPOKES Front RH/Rear LH SPOKES Front LH/Rear RH NIPPLES SPOKE RING NIPPLE INSERT NIPPLE MAGNET SPOKE SPANNER	RMX-DS03 RMX-DS04 RM0-B T-02 T-10 T-05 T-07	8 spokes + 8 nipples 8 spokes + 8 nipples 10 pcs. spoke anti-rotation magnet-attractor for nipple nipple-guide spoke wrench

SPOKES

SPOKES Front RH/Rear LH SPOKES Front LH/Rear RH NIPPLES SPOKE RING NIPPLE INSERT NIPPLE MAGNET SPOKE SPANNER	RMX-DS03 RMX-DS04 RM0-B T-02 T-10 T-05 T-07	8 spokes + 8 nipples 8 spokes + 8 nipples 10 pcs. spoke anti-rotation magnet-attractor for nipple nipple-guide spoke wrench
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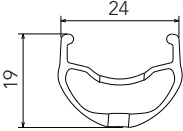
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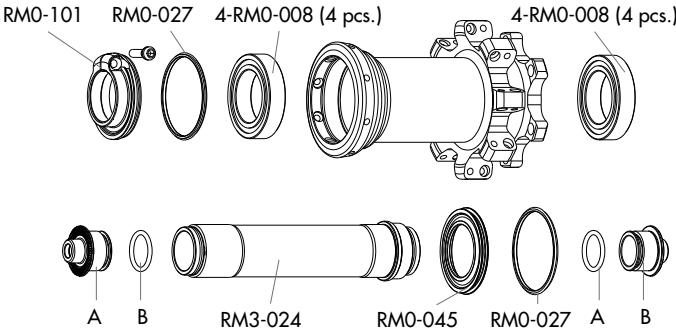
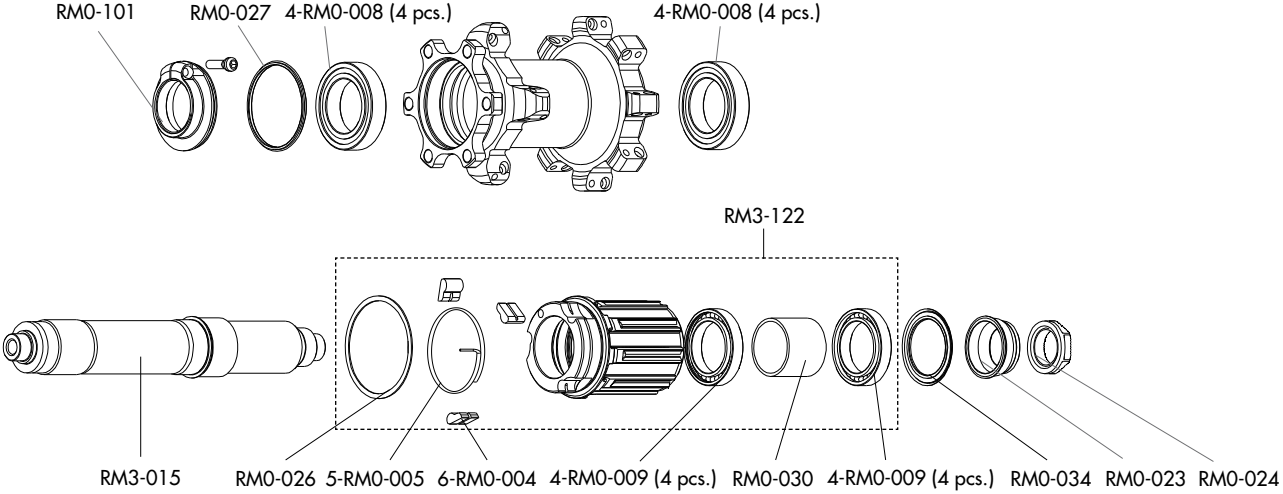
RED POWER 29 XL disc 6 bolts (front QR/15mm thru axle - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RPX-12DFB	front	QR+kit 15 thru axle	875
	RPX-12DRB	rear	QR	1.040

RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RP9-LAB12DBX (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RP9-RT 622 X 19C See section table and inflation pressures on page 34
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HUBS

		
		
KIT QR	RM11-TAQR	for front wheel (2A + 2B)
KIT 15 thru-axle	RM11-TA15	for front wheel - from QR to 15mm thru axle
QUICK-RELEASE	RM5-QFR	front + rear

SPOKES

SPOKES Front LH	RP9-DS01	8 spokes + 8 nipples
SPOKES Front RH	RP9-DS02	8 spokes + 8 nipples
SPOKES Rear LH	RP9-DS03	14 spokes + 14 nipples
SPOKES Rear RH	RP9-DS04	14 spokes + 14 nipples

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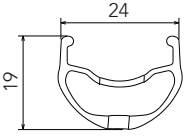
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2012 OFF-ROAD TECHNICAL MANUAL

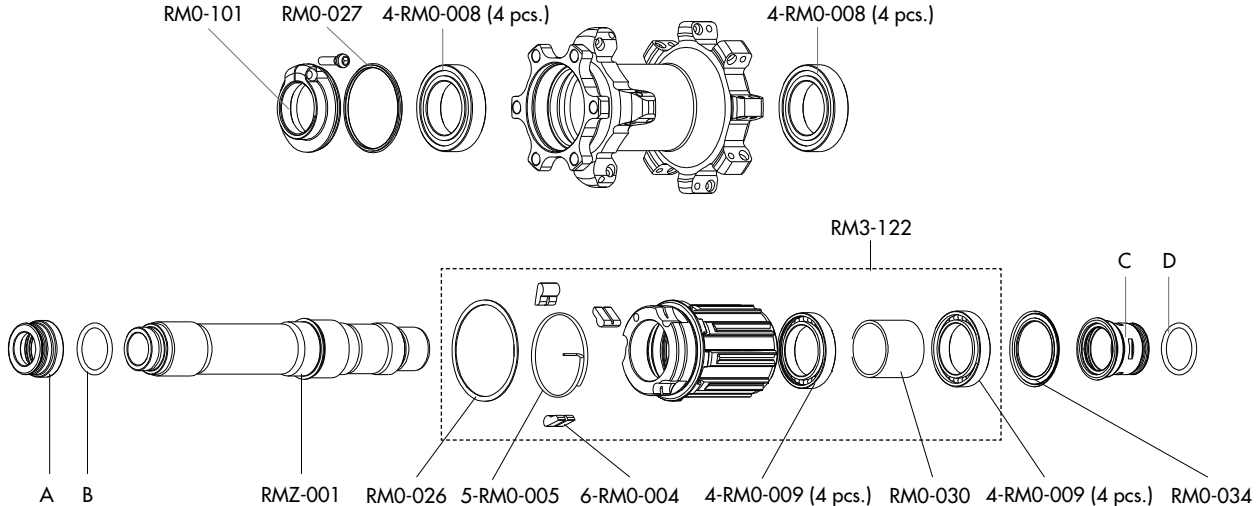
RED POWER 29 XL disc 6 bolts (rear 12mm thru axle 135/142)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RP9-LAB12DBX (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RP9-RT 622 X 19C See section table and inflation pressures on page 34
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HUBS

		
A+B+C+D	135 mm O.L.D.	KIT-X12
A+B+C+D	142 mm O.L.D.	RM11-TA12

SPOKES

SPOKES Rear LH	RP9-DS03	14 spokes + 14 nipples
SPOKES Rear RH	RP9-DS04	14 spokes + 14 nipples

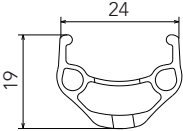
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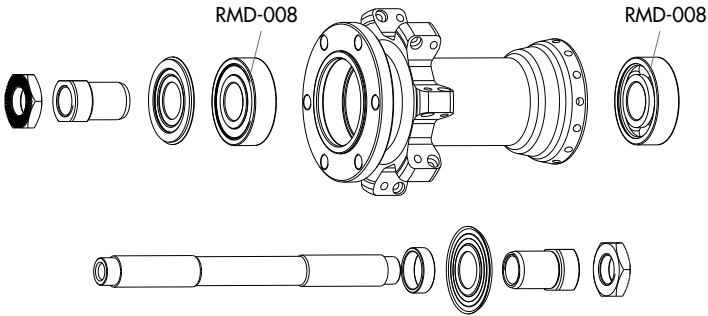
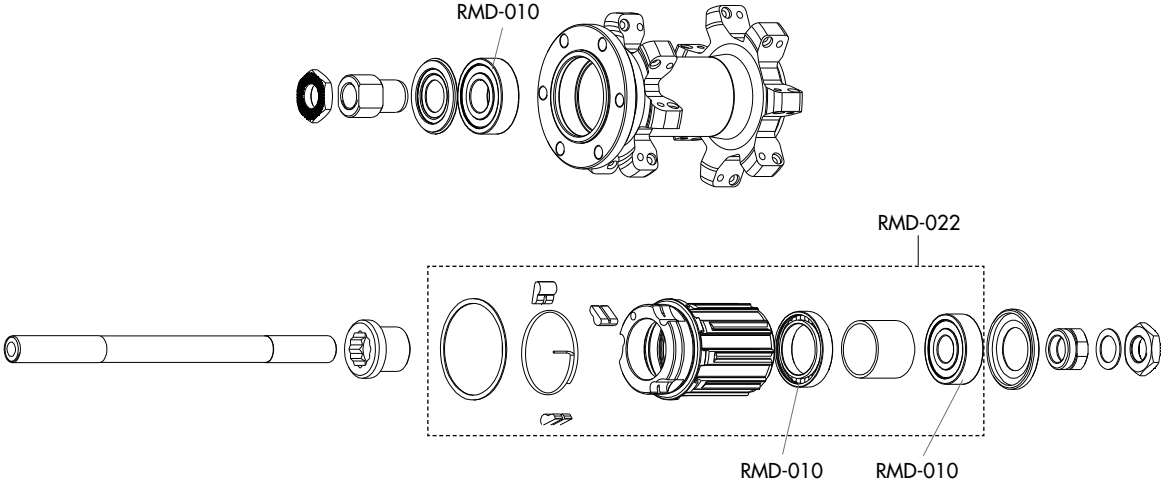
RED POWER 29 SL disc 6 bolts (front QR - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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	RP9-12DFB	front	QR	925
	RP9-12DRB	rear	QR	1.160

RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RP9-LAB12DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RP9-RT 622 X 19C See section table and inflation pressures on page 34
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HUBS

		
QUICK-RELEASE	RM5-QFR	front + rear

SPOKES

SPOKES Front LH/Rear RH	RP9-DS06	14 spokes + 14 nipples
SPOKES Front RH	RP9-DS05	14 spokes + 14 nipples
SPOKES Rear LH	RP9-DS03	14 spokes + 14 nipples

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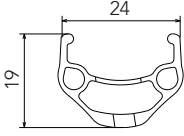
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2012 OFF-ROAD TECHNICAL MANUAL

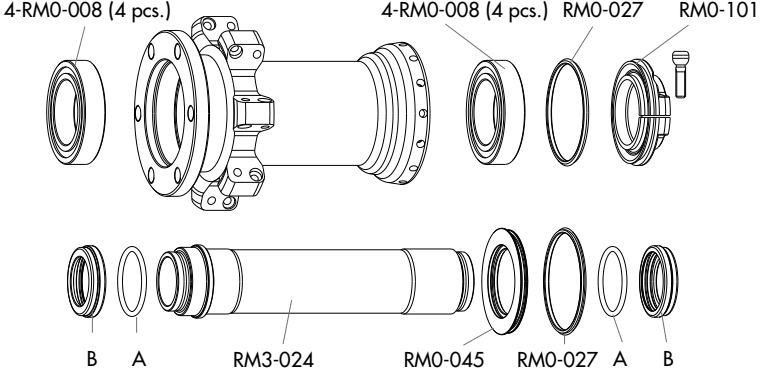
RED POWER 29 SL front 15mm thru axle

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
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RIM

	LABEL KIT VALVE HOLE VALVE HOLE BUSHING RIM-TAPE DIAMETER TYRE SECTION	RP9-LAB12DB (FRONT+REAR) 8,5 mm RPX-015 (for valve seat reduction - 10 pcs.) RP9-RT 622 X 19C See section table and inflation pressures on page 34
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HUBS

		
KIT 15 thru-axle	RM11-TA15	for front wheel (2A + 2B)

SPOKES

SPOKES Front RH SPOKES Front LH	RP9-DS02 RP9-DS06	8 spokes + 8 nipples 14 spokes + 14 nipples
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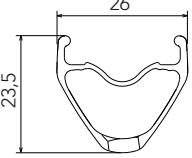
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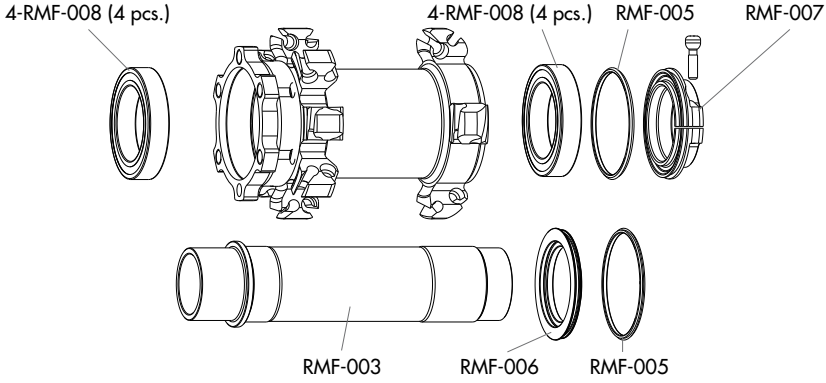
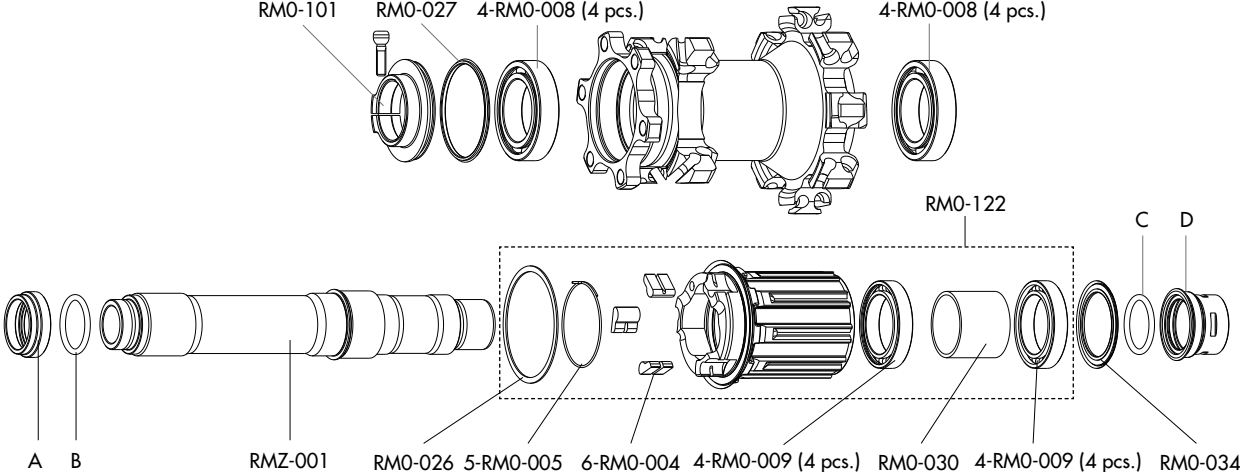
RED ZONE XLR disc 6 bolts (front 20mm t.a. - rear 12mm t.a. 135/142)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
These Fulcrum® wheels have been designed and manufactured for use only on bicycles of the "cross-country" and "all mountain/enduro" types. Do not use them for downhill, freestyle, acrobatic, four-cross or any extreme off-road riding. Misuse of the wheel may result in an accident, personal injury or death.	RMZ-10DFRH20X RMZ-11DRRH12X	front rear	20 thru axle 12 thru axle 135/142	785 935

RIM

	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RMZF-DRBX (with labels) RMZ-LAB10DBX (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

		
		
A+B+C+D	135 mm O.L.D.	RM11-TA12
A+B+C+D	142 mm O.L.D.	KIT-X12

SPOKES

SPOKES Front RH/Rear LH SPOKES Front LH/Rear RH NIPPLES SPOKE RING NIPPLE INSERT NIPPLE MAGNET SPOKE SPANNER	RM1-DS11 RM1-DS12 RM0-B T-02 T-10 T-05 T-07	8 spokes + 8 nipples 8 spokes + 8 nipples 10 pcs. spoke anti-rotation magnet-attractor for nipple nipple-guide spoke wrench
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NOTES

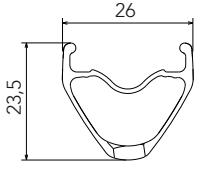
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2012 OFF-ROAD TECHNICAL MANUAL

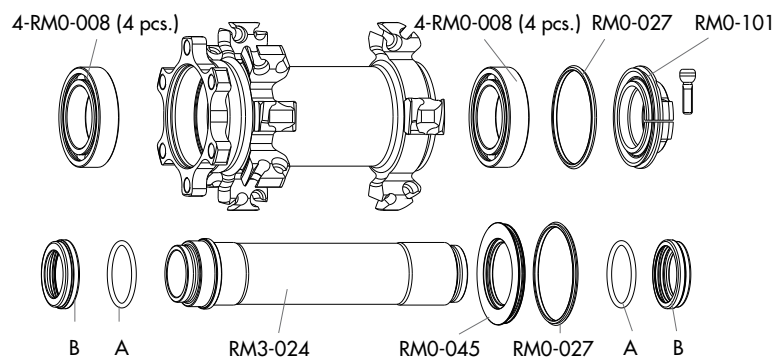
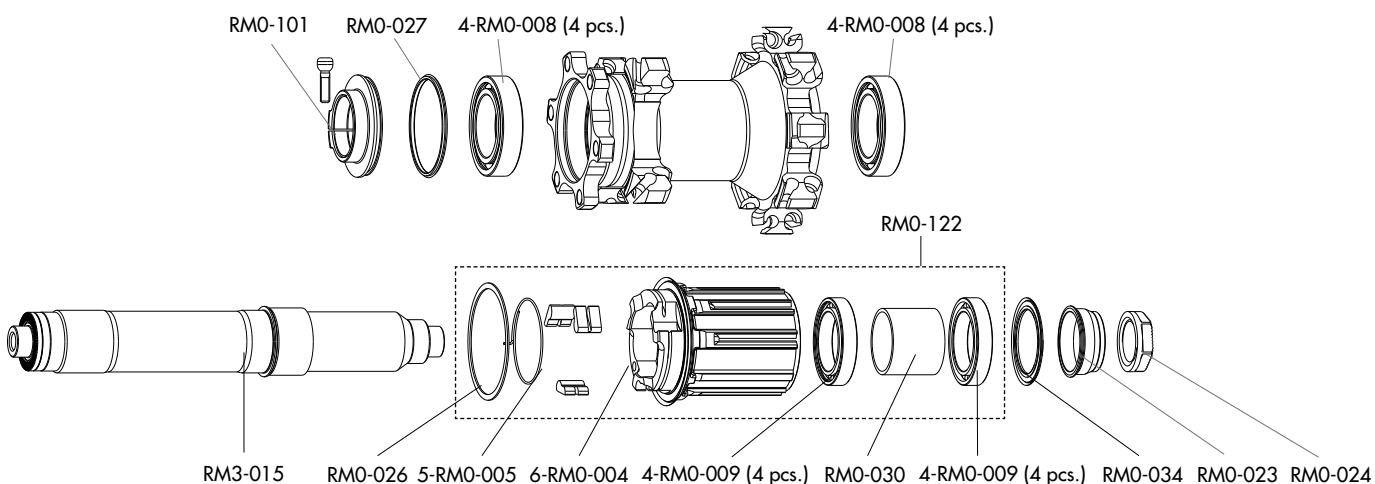
RED ZONE XLR disc 6 bolts (front 15mm thru-axle - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
These Fulcrum® wheels have been designed and manufactured for use only on bicycles of the "free-ride" and "four-cross" types. Do not use them for freestyle, acrobatic four-cross. Misuse of the wheel may result in an accident, personal injury or death.	RMZ-10DFRH15X RMZ-10DRRX	front rear	15mm thru axle QR	770 950

RIM

	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RMZF-DRBX (with labels) RMZ-LAB10DBX (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
---	--	--

HUBS

		
		
KIT 15 thru-axle	RM11-TA15	for front wheel (2A + 2B)
QUICK-RELEASE	RM0-QFR	front + rear

SPOKES

SPOKES Front RH/Rear LH	RM1-DS11	8 spokes + 8 nipples
SPOKES Front LH/Rear RH	RM1-DS12	8 spokes + 8 nipples
NIPPLES	RM0-B	10 pcs.
SPOKE RING	T-02	spoke anti-rotation
NIPPLE INSERT	T-10	magnet-attractor for nipple
NIPPLE MAGNET	T-05	nipple-guide
SPOKE SPANNER	T-07	spoke wrench

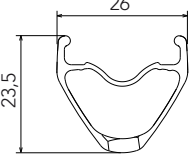
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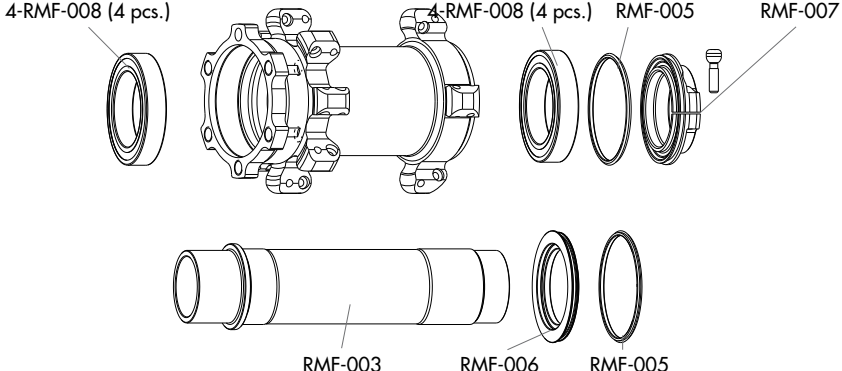
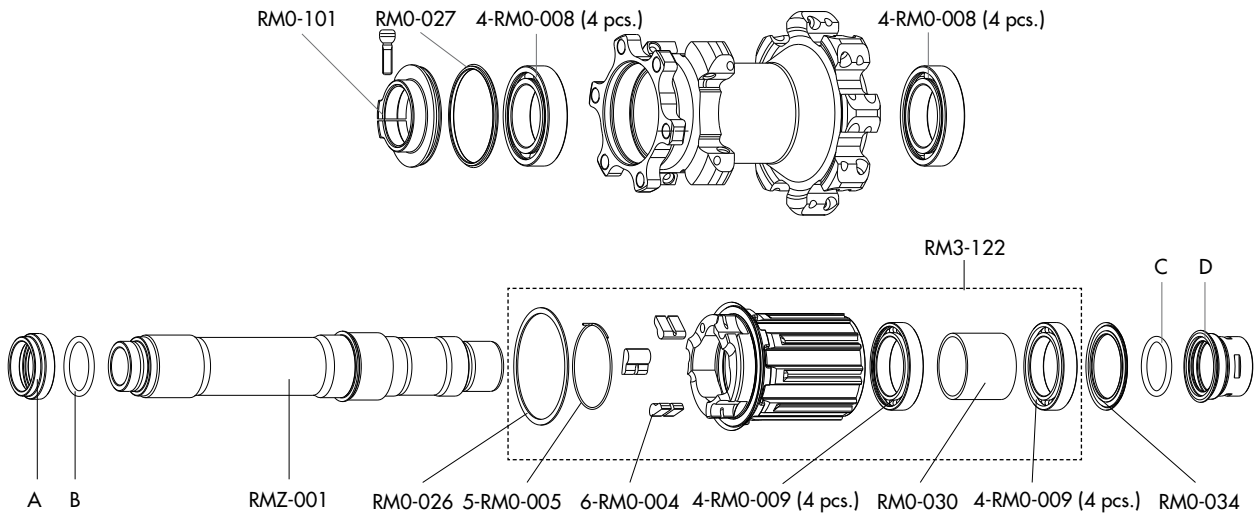
RED ZONE disc 6 bolts (front 20mm t.a. - rear 12mm t.a. 135/142)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
These Fulcrum® wheels have been designed and manufactured for use only on bicycles of the "free-ride" and "four-cross" types. Do not use them for freestyle, acrobatic four-cross. Misuse of the wheel may result in an accident, personal injury or death.	RMZ-10DFRH20 RMZ-11DRRH12	front rear	20 thru axle 12 thru axle 135/142	800 965

RIM

	FRONT RIM/POST VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RMZF-DRB (with labels) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

	4-RMF-008 (4 pcs.) 4-RMF-008 (4 pcs.) RMF-005 RMF-007 RMF-003 RMF-006 RMF-005	
	RM0-101 RM0-027 4-RM0-008 (4 pcs.) 4-RM0-008 (4 pcs.) RM3-122 C D RMZ-001 RM0-026 5-RM0-005 6-RM0-004 4-RM0-009 (4 pcs.) RM0-030 4-RM0-009 (4 pcs.) RM0-034	
A+B+C+D	135 mm O.L.D.	RM11-TA12
A+B+C+D	142 mm O.L.D.	KIT-X12

SPOKES

SPOKES Front RH/Rear LH SPOKES Front LH/Rear RH NIPPLES SPOKE RING NIPPLE INSERT NIPPLE MAGNET SPOKE SPANNER	RMZ-DS01 RMZ-DS02 RM3-B T-02 T-10 T-05 T-07	8 spokes + 8 nipples 8 spokes + 8 nipples 50 pcs. spoke anti-rotation magnet-attractor for nipple nipple-guide spoke wrench
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NOTES

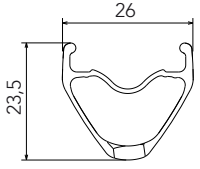
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2012 OFF-ROAD TECHNICAL MANUAL

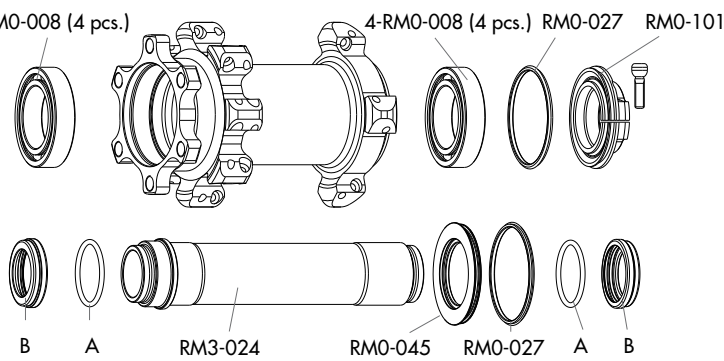
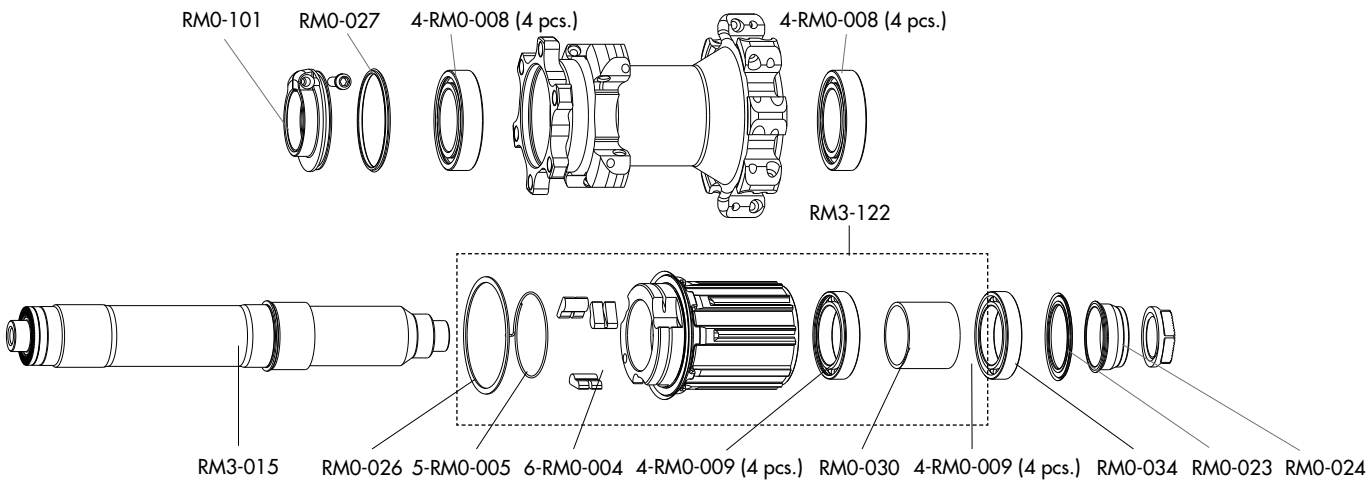
RED ZONE disc 6 bolts (front 15mm t.a. - rear QR)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
These Fulcrum® wheels have been designed and manufactured for use only on bicycles of the "free-ride" and "four-cross" types. Do not use them for freestyle, acrobatic four-cross. Misuse of the wheel may result in an accident, personal injury or death.	RMZ-10DFRH15 RMZ-10DRR	front rear	15mm thru axle QR	785 980

RIM

	FRONT RIM/POST VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RMZF-DRB (with labels) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS

	KIT 15 thru-axle QUICK-RELEASE	RM11-TA15 RM5-QFR	for front wheel (2A + 2B) front + rear
			

SPOKES

SPOKES Front RH/Rear LH SPOKES Front LH/Rear RH NIPPLES SPOKE RING NIPPLE INSERT NIPPLE MAGNET SPOKE SPANNER	RMZ-DS01 RMZ-DS02 RM3-B T-02 T-10 T-05 T-07	8 spokes + 8 nipples 8 spokes + 8 nipples 50 pcs. spoke anti-rotation magnet-attractor for nipple nipple-guide spoke wrench
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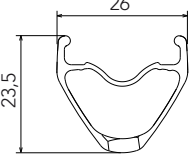
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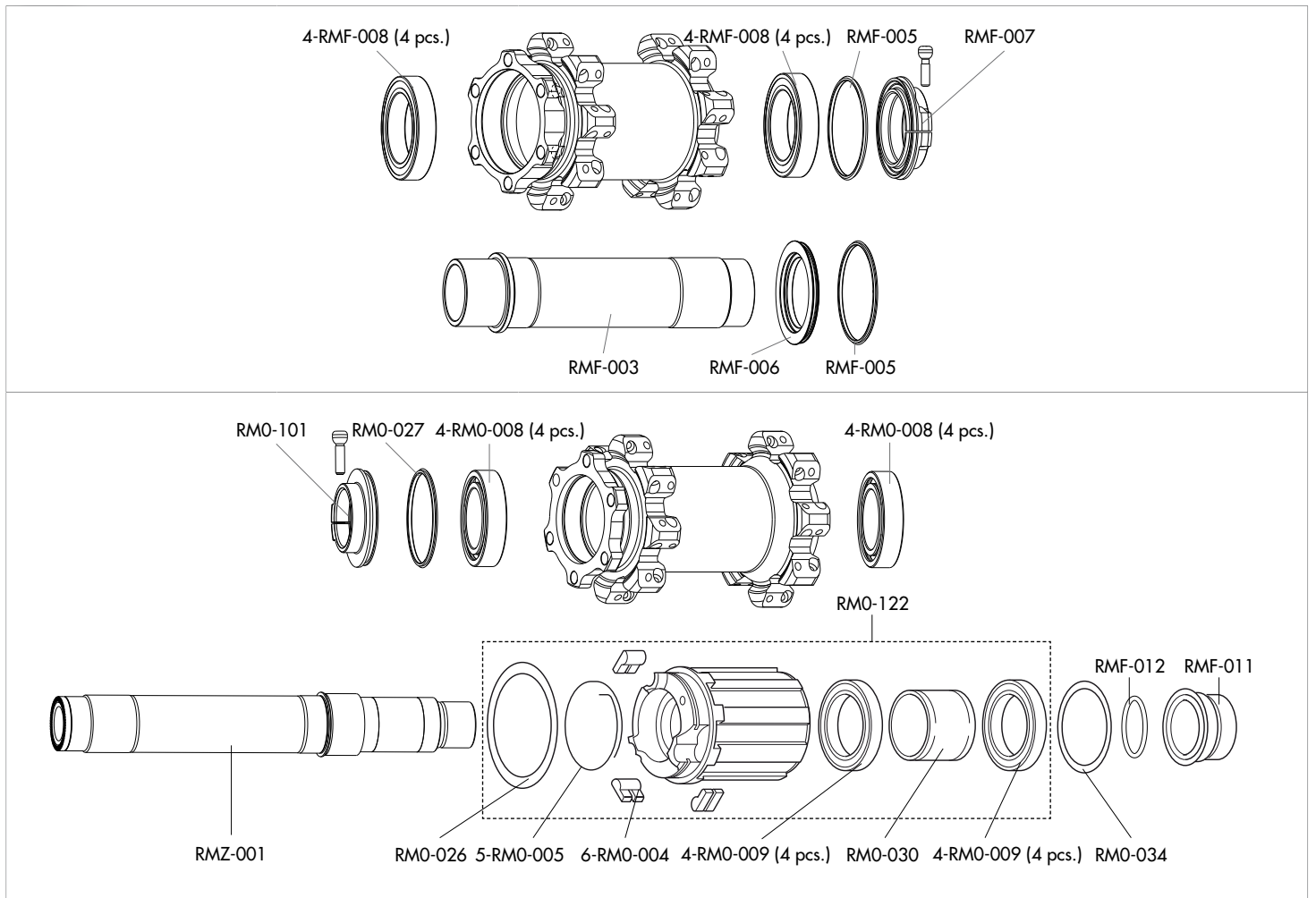
RED FIRE disc 6 bolts (front 20mm t.a.-110 OLD - rear 12mm t.a.-150 OLD)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
These Fulcrum® wheels have been designed and manufactured for use only on bicycles of the "downhill", "free-ride" and "four-cross" types. Do not use them for freestyle, acrobatic four-cross. Misuse of the wheel may result in an accident, personal injury or death.	RMF-9DFRR	FRONT+REAR	front 20 thru axle - rear 12 thru axle 135/142	2.215
	RMF-9DFR	front	20 thru axle	1.016
	RMF-9DRR	rear	12 thru axle 135/142	1.199

RIM

	FRONT RIM/POST LABEL KIT VALVE HOLE VALVE VALVE HOLE BUSHING DIAMETER TYRE SECTION	RMFF-DRR (with labels) RMF-LAB9DR (FRONT+REAR) 6,5 mm M1-102 5-RMC-014 (for valve seat reduction - 5 pcs.) 26 Tubeless See recommended tyre manufacturer inflation pressure
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HUBS



SPOKES

SPOKES Front RH/Rear LH	RMF-DS01	8 spokes + 8 nipples
SPOKES Front LH/Rear RH	RMF-DS02	8 spokes + 8 nipples
NIPPLES	RM3-B	50 pcs.
NIPPLE INSERT	T-10	magnet-attractor for nipple
NIPPLE MAGNET	T-05	nipple-guide
SPOKE SPANNER	T-07	spoke wrench

NOTES

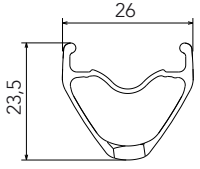
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2012 OFF-ROAD TECHNICAL MANUAL

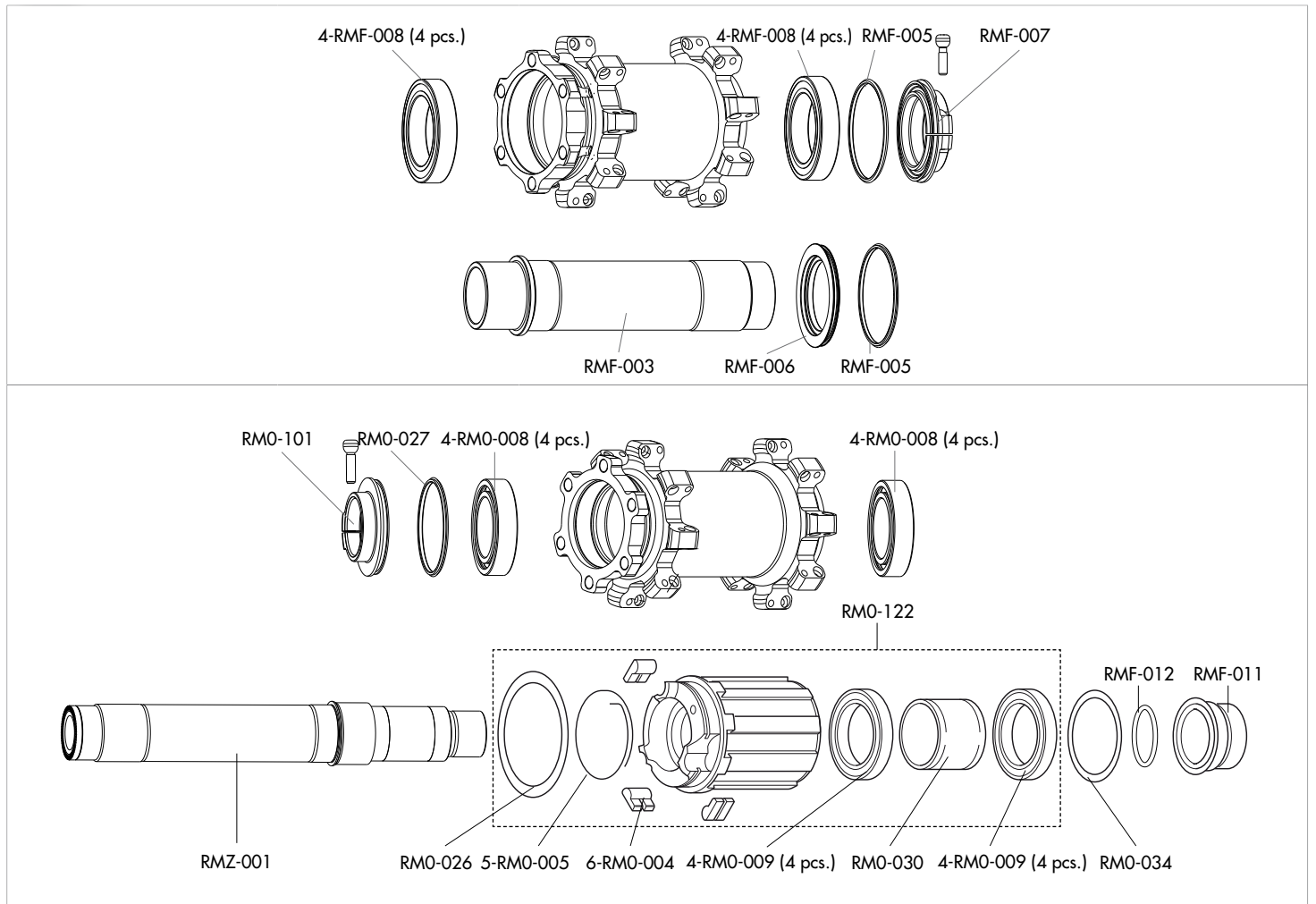
RED HEAT disc 6 bolts (front 20mm t.a.-110 OLD - rear 12mm t.a.-150 OLD)

INTENDED USE	WHEEL CODES	DESCRIPTION	AXLE	WEIGHT
These Fulcrum® wheels have been designed and manufactured for use only on bicycles of the "downhill", "free-ride" and "four-cross" types. Do not use them for freestyle, acrobatic four-cross. Misuse of the wheel may result in an accident, personal injury or death.	RMH-11DFRB	FRONT+REAR	front 20 thru axle/rear 12 thru axle 135/142	2.202
	RMH-11DFB	front	20 thru axle	1.012
	RMH-11DRB	rear	12 thru axle 135/142	1.190

RIM

	<p>LABEL KIT VALVE HOLE DIAMETER TYRE SECTION</p>	<p>RMH-LAB11DB (FRONT+REAR) 8,5 mm 599 x 19C See section table and inflation pressures on page 34</p>
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HUBS



SPOKES

SPOKES Front	RMH-DS01	8 spokes + 8 nipples
SPOKES Rear RH	RMH-DS02	8 spokes + 8 nipples
SPOKES Rear LH	RMH-DS03	8 spokes + 8 nipples

NOTES

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ADAPTERS

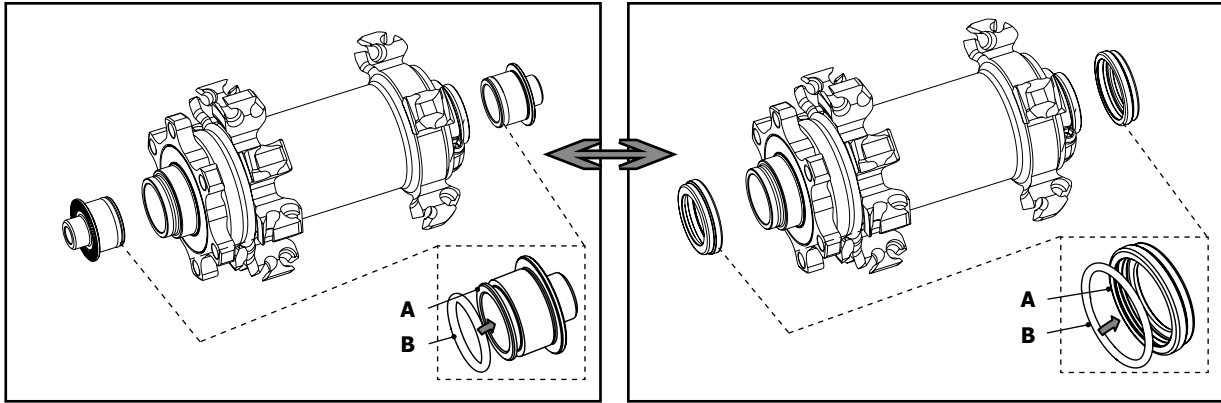
QUICK RELEASE ⇄ THRU-AXLE 15 mm ADAPTER

QR Ø 9mm - 100mm

Thru axle Ø 15mm - 100mm

RM11-TAQR

RM11-TA15



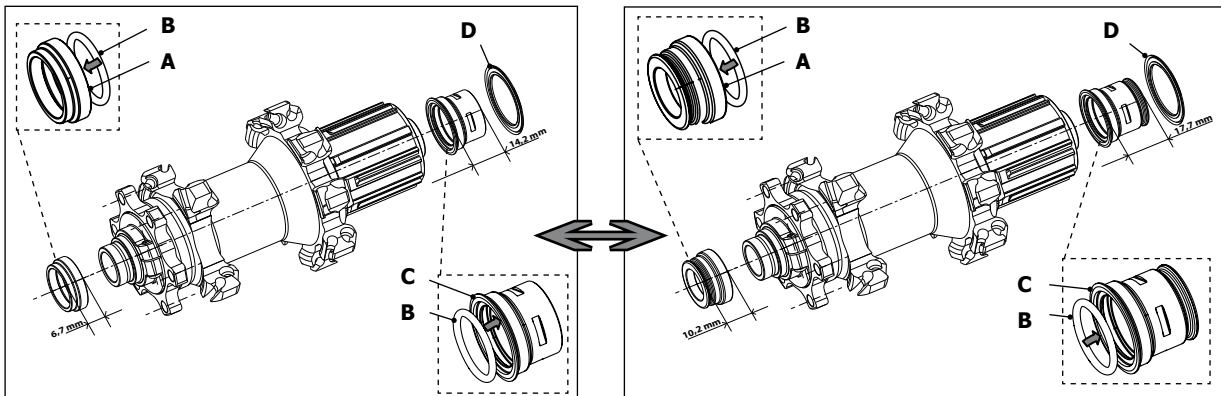
Thru-Axle 12mm/135mm ⇄ Syntace X-12/142mm ADAPTER

Thru axle Ø 12mm - O.L.D. 135mm

Thru axle Ø 12mm - O.L.D. 142mm

KIT-X12

RM11-TA12 - RM11-TA12AFS



MAXIMUM OPERATING PRESSURE

		RIM DIMENSION									
		19C		21C		23C		25C			
TYRE WIDTH	mm	in.	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	
	28	1,10	8,0	117							
	30	1,20	7,0	103							
	32	1,25	6,7	99							
	35	1,30	6,3	93	6,3	93					
	37	1,40	6,0	88	6,0	88	6,0	88			
	40	1,50	5,7	83	5,7	83	5,7	83			
	42	1,60	5,5	80	5,5	80	5,5	80	5,5	80	
	44	1,70	5,2	76	5,2	76	5,2	76	5,2	76	
	47	1,80	4,8	71	4,8	71	4,8	71	4,8	71	
	50	1,90	4,5	66	4,5	66	4,5	66	4,5	66	
	52	2,00	4,3	63	4,3	63	4,3	63	4,3	63	
	54	2,10	4,0	59	4,0	59	4,0	59	4,0	59	
	57	2,20	3,7	55	3,7	55	3,7	55	3,7	55	
	60	2,30	3,4	50	3,4	50	3,4	50	3,4	50	
	61	2,40			3,2	47	3,2	47	3,2	47	
	63	2,50			3,0	44	3,0	44	3,0	44	
	66	2,60			2,8	41	2,8	41	2,8	41	
69	2,70			2,7	39	2,7	39	2,7	39		
71	2,80					2,5	36	2,5	36		
74	2,90					2,4	34	2,4	34		
76	3,00					2,1	30	2,1	30		

MAINTENANCE

 **ATTENTION!**

The operations described below require specific competences, experience and adequate equipment. This is why this section of the technical manual is reserved only and exclusively to specialised personnel (Service Center and specialised mechanics).

MAINTENANCE

OPERATION INDEX

001	SPOKE REPLACEMENT RED CARBON FRONT / REAR WHEEL NON-DRIVE SIDE	42
002	SPOKE REPLACEMENT RED CARBON FRONT / REAR WHEEL DRIVE SIDE	44
003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
004	SPOKE REPLACEMENT RED METAL 1XL / RED ZONE XLR FRONT AND REAR WHEEL	49
005	SPOKE REPLACEMENT RED METAL O XRP FRONT AND REAR WHEEL	51
006	SPOKE REPLACEMENT RED POWER XL/SL/RED HEAT FRONT AND REAR WHEEL NON-DRIVE SIDE	53
007	CURVED HEAD SPOKE REPLACEMENT RED POWER FRONT AND REAR WHEEL	54
008	FREEWHEEL BODY DISASSEMBLY AND ASSEMBLY REAR WHEEL WITH CONE/CUP	55
009	HUB DISASSEMBLY AND ASSEMBLY FRONT AND REAR WHEEL WITH CONE/CUP	56
010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
011	INSTALLATION OF THE QR/THRU-AXLE 15 mm ADAPTER KIT	62
012	INSTALLATION OF THE SYNTACE X-12 (O.L.D.142mm) ADAPTER KIT	63
013	INSTALLATION OF THE ADAPTER KIT THRU-AXLE 12mm 142 -> 135mm	64
014	FREEWHEEL BODY PAWL REPLACEMENT	65

MAINTENANCE

WHEELS INDEX

RED CARBON (spare parts on page 5)

001	SPOKE REPLACEMENT RED CARBON FRONT / REAR WHEEL NON-DRIVE SIDE	42
002	SPOKE REPLACEMENT RED CARBON FRONT / REAR WHEEL DRIVE SIDE	44
008	FREEWHEEL BODY DISASSEMBLY AND ASSEMBLY REAR WHEEL WITH CONE/CUP	55
009	HUB DISASSEMBLY AND ASSEMBLY FRONT AND REAR WHEEL WITH CONE/CUP	56
014	FREEWHEEL BODY PAWL REPLACEMENT	65

RED METAL 0 XRP (spare parts on page 7)

005	SPOKE REPLACEMENT RED METAL 0 XRP FRONT AND REAR WHEEL	51
008	FREEWHEEL BODY DISASSEMBLY AND ASSEMBLY REAR WHEEL WITH CONE/CUP	55
009	HUB DISASSEMBLY AND ASSEMBLY FRONT AND REAR WHEEL WITH CONE/CUP	56
011	INSTALLATION OF THE QR/THRU-AXLE 15 mm ADAPTER KIT	62
012	INSTALLATION OF THE SYNTACE X-12 (O.L.D. 142mm) ADAPTER KIT	63
014	FREEWHEEL BODY PAWL REPLACEMENT	65

RED METAL 1 XL (spare parts on page 9)

004	SPOKE REPLACEMENT RED METAL 1XL / RED ZONE XLR FRONT AND REAR WHEEL	49
010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
011	INSTALLATION OF THE QR/THRU-AXLE 15 mm ADAPTER KIT	62
012	INSTALLATION OF THE SYNTACE X-12 (O.L.D. 142mm) ADAPTER KIT	63
014	FREEWHEEL BODY PAWL REPLACEMENT	65

RED METAL 3 (spare parts on page 12)

003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
011	INSTALLATION OF THE QR/THRU-AXLE 15 mm ADAPTER KIT	62
012	INSTALLATION OF THE SYNTACE X-12 (O.L.D. 142mm) ADAPTER KIT	63
014	FREEWHEEL BODY PAWL REPLACEMENT	65

RED POWER XL (spare parts on page 15)

003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
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MAINTENANCE

WHEELS INDEX

RED POWER XL (spare parts on page 15)

006	SPOKE REPLACEMENT RED POWER XL/SL/RED HEAT FRONT AND REAR WHEEL NON-DRIVE SIDE	53
010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
011	INSTALLATION OF THE QR/THRU-AXLE 15 mm ADAPTER KIT	62
013	INSTALLATION OF THE ADAPTER KIT THRU-AXLE 12mm 142 -> 135mm	64
014	FREEWHEEL BODY PAWL REPLACEMENT	65

RED POWER SL (spare parts on page 19)

003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
006	SPOKE REPLACEMENT RED POWER XL/SL/RED HEAT FRONT AND REAR WHEEL NON-DRIVE SIDE	53
010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
014	FREEWHEEL BODY PAWL REPLACEMENT	65
007	CURVED HEAD SPOKE REPLACEMENT RED POWER FRONT AND REAR WHEEL	54

RED POWER (spare parts on page 21)

010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
014	FREEWHEEL BODY PAWL REPLACEMENT	65

RED METAL 29 XL (spare parts on page 22)

004	SPOKE REPLACEMENT RED METAL 1XL / RED ZONE XLR FRONT AND REAR WHEEL	49
010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
011	INSTALLATION OF THE QR/THRU-AXLE 15 mm ADAPTER KIT	62
012	INSTALLATION OF THE SYNTACE X-12 (O.L.D. 142mm) ADAPTER KIT	63
014	FREEWHEEL BODY PAWL REPLACEMENT	65

RED POWER 29 XL (spare parts on page 23)

003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
006	SPOKE REPLACEMENT RED POWER XL/SL/RED HEAT FRONT AND REAR WHEEL NON-DRIVE SIDE	53
010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
011	INSTALLATION OF THE QR/THRU-AXLE 15 mm ADAPTER KIT	62
013	INSTALLATION OF THE ADAPTER KIT THRU-AXLE 12mm 142 -> 135mm	64

MAINTENANCE

WHEELS INDEX

RED POWER 29 XL (spare parts on page 23)

014	FREEWHEEL BODY PAWL REPLACEMENT	65
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RED POWER 29 SL (spare parts on page 25)

003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
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006	SPOKE REPLACEMENT RED POWER XL/SL/RED HEAT FRONT AND REAR WHEEL NON-DRIVE SIDE	53
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010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
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014	FREEWHEEL BODY PAWL REPLACEMENT	65
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RED ZONE XLR (spare parts on page 27)

004	SPOKE REPLACEMENT RED METAL 1XL / RED ZONE XLR FRONT AND REAR WHEEL XLR	49
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010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
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014	FREEWHEEL BODY PAWL REPLACEMENT	65
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RED ZONE (spare parts on page 29)

003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
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010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
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014	FREEWHEEL BODY PAWL REPLACEMENT	65
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RED FIRE (spare parts on page 31)

003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
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010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
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014	FREEWHEEL BODY PAWL REPLACEMENT	65
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RED HEAT (spare parts on page 32)

003	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL	47
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006	SPOKE REPLACEMENT RED POWER XL/SL/RED HEAT FRONT AND REAR WHEEL NON-DRIVE SIDE	53
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010	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING	60
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014	FREEWHEEL BODY PAWL REPLACEMENT	65
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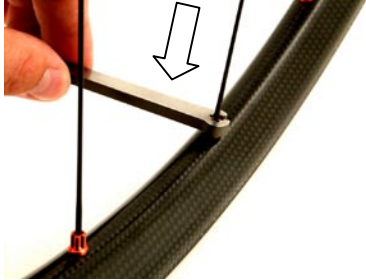

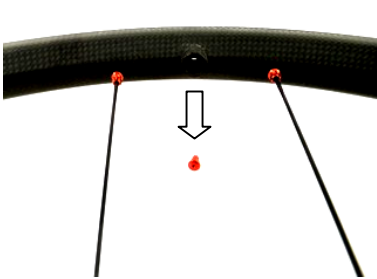

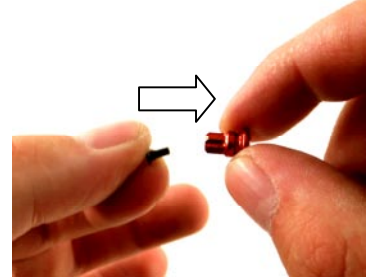


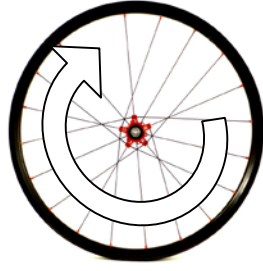



MAINTENANCE PERIODS

WHEELS	TYPE OF OPERATION	KM (MAX)	TIME (MAX)
Off-road wheels	Check at a specialized mechanic's:	2.000	
	• check the lubrication, rolling and clearance of the hubs		
	• check the wheel centering		
	Check at a specialized mechanic's:	10.000	
	• check the lubrication, rolling and clearance of the hubs and replace any worn parts of the hubs and free wheel body		
	• check the wheel centering		
	• check the wear of the braking track and replace rim if required		
	Replace the Tubeless valve (only Tubeless wheels)		1 anno



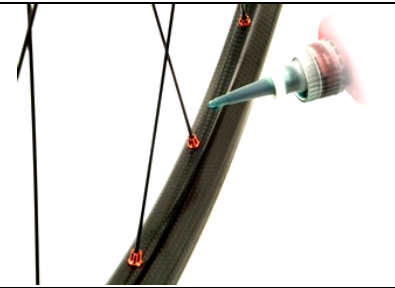
 **ATTENTION!**

NEVER use compressed air to dry a wheel. You might damage the wheel by injecting it into the tyre through the valve or the draining holes for the water.


MAINTENANCE






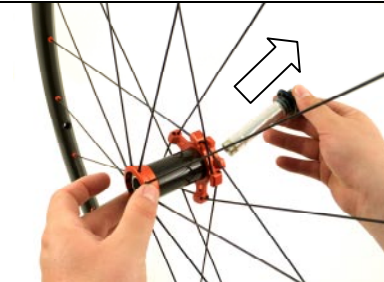
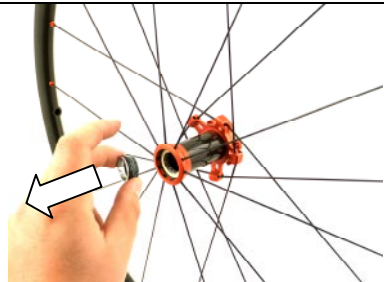

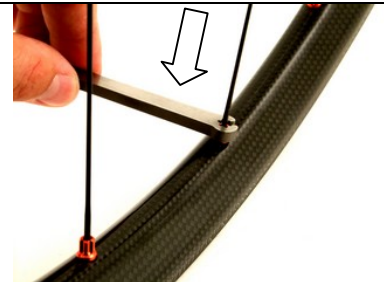


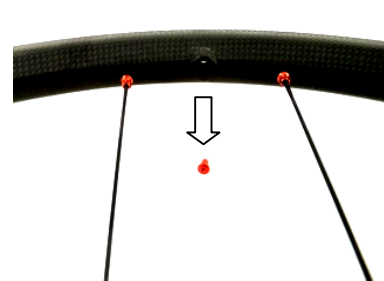
GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	ALL	001	1/2011	SPOKE REPLACEMENT RED CARBON FRONT / REAR WHEEL NON-DRIVE SIDE
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Carbon XRP™	Red Power SL™			
				
1 Locate the spoke to be replaced.	2 Use the special wrench to loosen the nipple.	3 When round head spokes are being loosened, they tend to spin around. Use the special holder tool to hold the spoke still during the operation.		
				
4 Remove the nipple from the valve hole of the rim.	5 Extract the spoke from the flange of the hub.	6 Tighten the magnet-attracting insert on the nipple.		
				
7 Tighten the insert on the nipple completely to prevent it from sliding out while being drawn inside the rim.	8 Insert the nipple with insert inside the rim through the valve hole.	9 Using the special magnet, pull the nipple inside the rim up to the hole of the spoke to be replaced.		
				
10 Bring the nipple out from the hole of the rim.	11 Loosen the magnet-attracting insert from the nipple.	12 Insert the new spoke inside the flange of the hub.		

MAINTENANCE


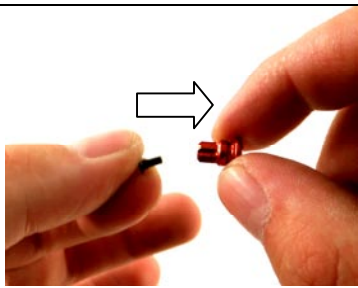

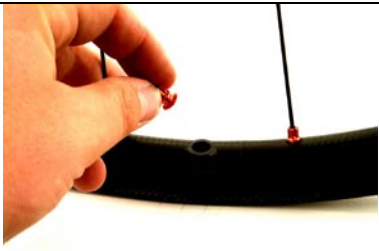
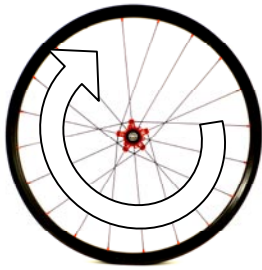
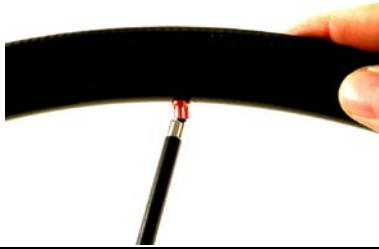
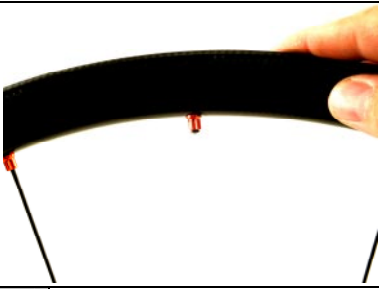


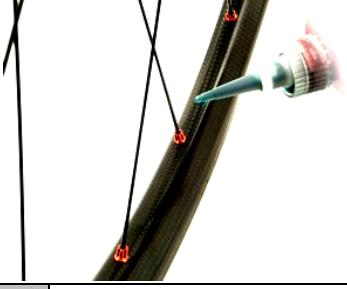

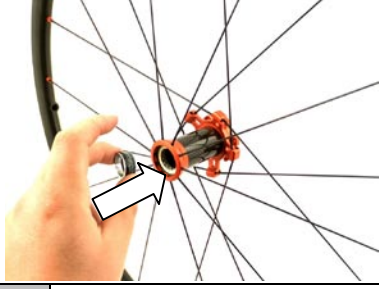
		
<p>13 Manually tighten the nipple on the spoke.</p>	<p>15 Tighten the nipple with the wrench, holding the spoke still with the holder, until an adequate tension is reached.</p>	<p>15 After tensioning, apply threadlocker between the nipple and the spoke.</p>

MAINTENANCE

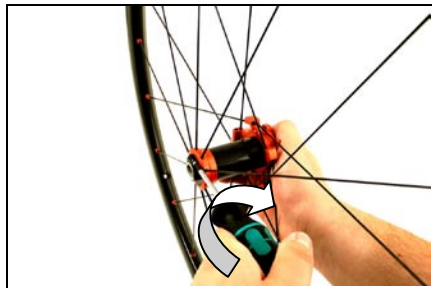
GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	CUP/CONE MECHANISM	002	1/2011	SPOKE REPLACEMENT RED CARBON FRONT / REAR WHEEL DRIVE SIDE
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Carbon XRP™				

		
<p>1</p> <p>Insert two hex wrenches inside the hexagons of the hub axle and loosen with force. Hold the wrench on the right (side opposite the adjusting sleeve) still; turn the one on the left anti-clockwise to loosen the fixing bolt.</p>	<p>2</p> <p>Hand loosen the fixing bolt and be careful not to lose the spacer.</p>	<p>3</p> <p>Loosen the allen screw of the adjusting sleeve using a screwdriver with 2.5 mm hexagonal insert.</p>
		
<p>4</p> <p>Hand loosen the adjusting sleeve.</p>	<p>5</p> <p>Remove the axle by pushing it towards the inside of the hub body.</p>	<p>6</p> <p>Extract the axle, being careful not to lose the cone.</p>
		
<p>7</p> <p>Remove the cone and the adjusting cone.</p>	<p>8</p> <p>Locate the spoke to be replaced.</p>	<p>9</p> <p>Use the special wrench to loosen the nipple.</p>
		
<p>10</p> <p>When round head spokes are being loosened, they tend to spin around. Use the special holder tool to hold the spoke still during the operation.</p>	<p>11</p> <p>Extract the spoke from the flange of the hub.</p>	<p>12</p> <p>Remove the nipple from the valve hole of the rim.</p>

MAINTENANCE

		
<p>13 Insert the new spoke inside the flange of the hub.</p>	<p>14 Tighten the magnet-attracting insert on the nipple.</p>	<p>15 Completely tighten the insert on the nipple to prevent it from sliding out while being drawn inside the rim.</p>
		
<p>16 Insert the nipple with the insert inside the rim through the valve hole.</p>	<p>17 Using the special magnet, pull the nipple inside the rim up to the hole of the spoke to be replaced.</p>	<p>18 Bring the nipple out from the hole of the rim.</p>
		
<p>19 Loosen the magnet-attracting insert from the nipple.</p>	<p>20 Manually tighten the nipple on the spoke.</p>	<p>21 Tighten the nipple with the wrench, holding the spoke still with the holder, until an adequate tension is reached.</p>
		
<p>22 After tensioning, apply threadlocker between the nipple and the spoke.</p>	<p>23 Insert the axle inside the hub body, make sure that the cone is fitted on the axle.</p>	<p>24 Insert the cone and the adjusting cone.</p>

MAINTENANCE



25

Tighten the adjusting sleeve on the hub axle and tighten the allen screw to torque. Use a torque wrench with 2.5 mm insert and tightening torque of 2.5 Nm (22 in.lbs).



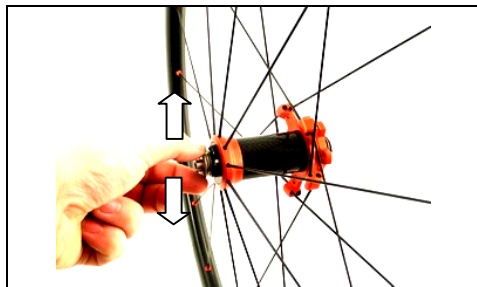
26

Tighten the fixing bolt on the hub axle. Be sure to insert the spacer.



27







Insert two hex wrenches inside the hexagons of the hub body and tighten with force. Hold the wrench on the right (side opposite the adjusting sleeve) still; turn the one on the left clockwise.

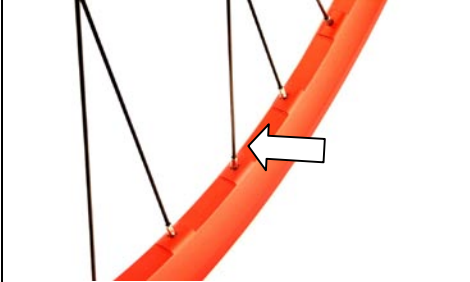

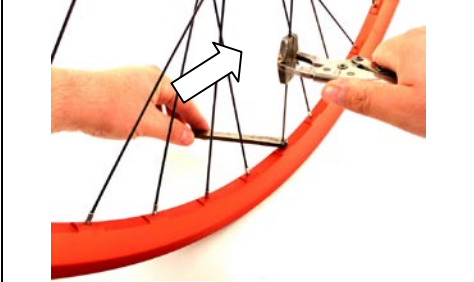


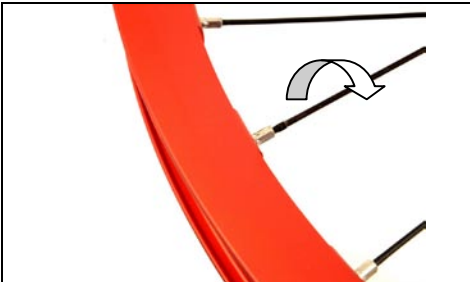
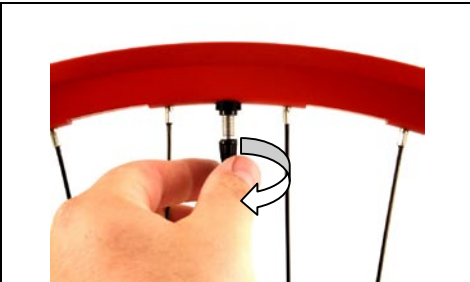
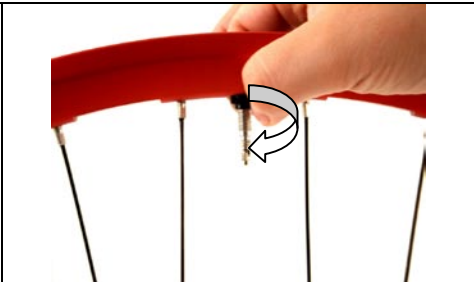
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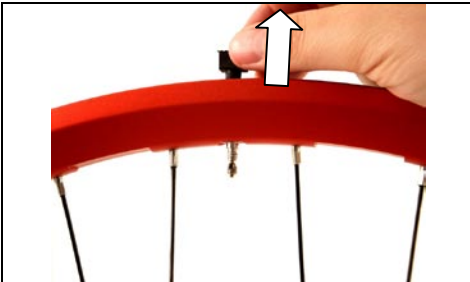
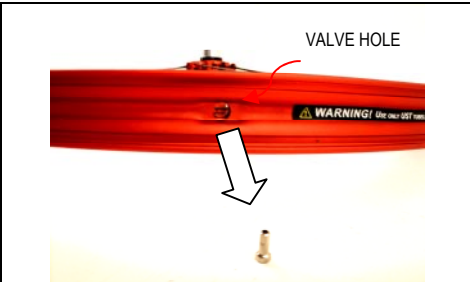
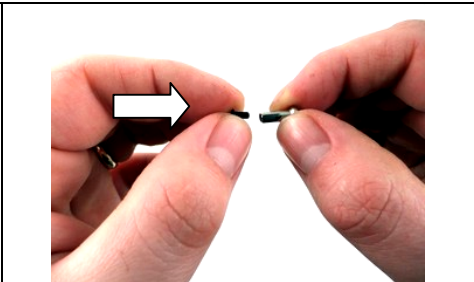
Check the movement of the axle in rotation; adjust if necessary using the adjusting sleeve.

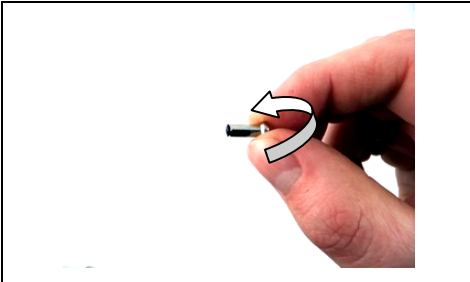

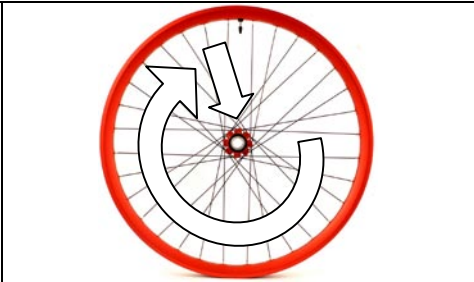
MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION					
MTB WHEELS	INDUSTRIAL BEARINGS MECHANISM	003	0/2011	SPOKE REPLACEMENT RED METAL 3 / RED FIRE / RED ZONE / RED HEAT FRONT AND REAR WHEEL					
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED									
									
Red Fire™	Red Metal 3™	Red Zone™	Red Heat™	Red Power XL™/29 XL™	Red Power SL™ / 29 SL™				

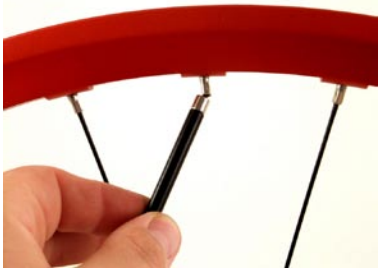


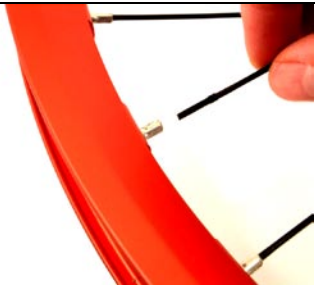
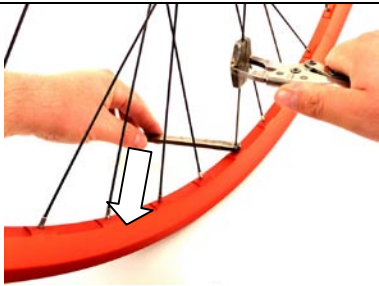
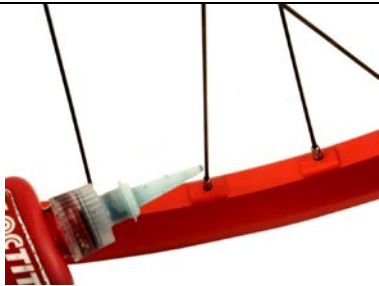
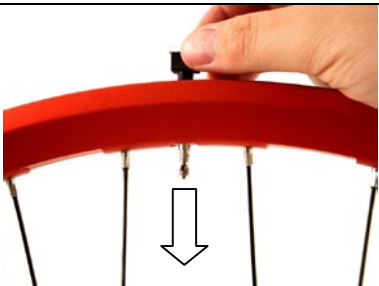
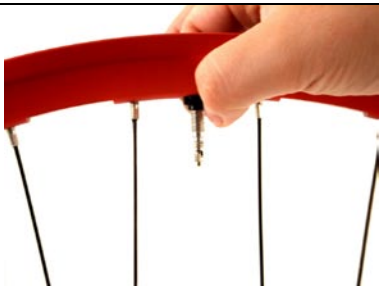

		
1 Locate the spoke to be replaced.	2 Use the special wrench to loosen the nipple.	3 When round head spokes are being loosened, they tend to spin around. Use the special holder tool to hold the spoke still during the operation.

		
4 When the nipple is loosened, proceed manually to extract the spoke from the flange of the hub.	5 If it is necessary to replace the nipple as well, to extract it from the rim you first have to disassemble the valve. Loosen the closure cap.	6 Loosen the sealing ring.



		
7 Extract the valve.	8 Remove the nipple from the valve hole of the rim.	9 Tighten the magnet-attracting insert on the nipple.

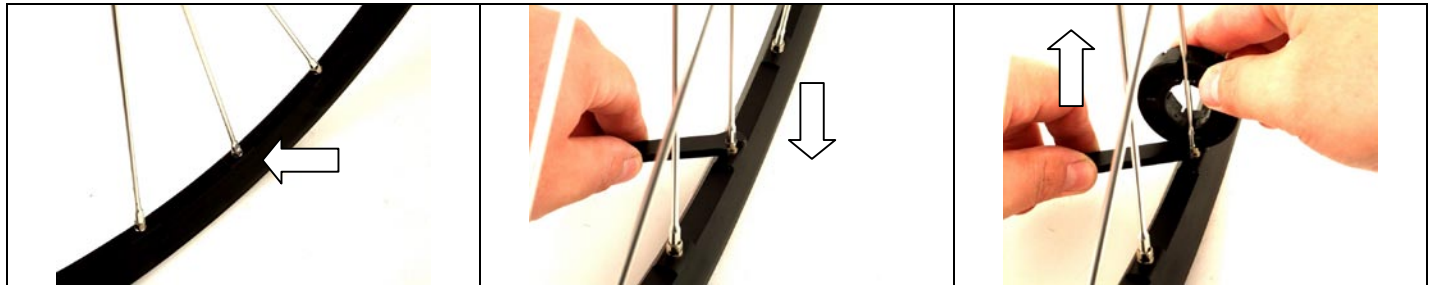
		
10 Completely tighten the insert on the nipple to prevent it from sliding out while being drawn inside the rim.	11 Insert the nipple with the insert inside the rim through the valve hole.	12 Using the special magnet, pull the nipple inside the rim up to the hole of the spoke to be replaced.

MAINTENANCE

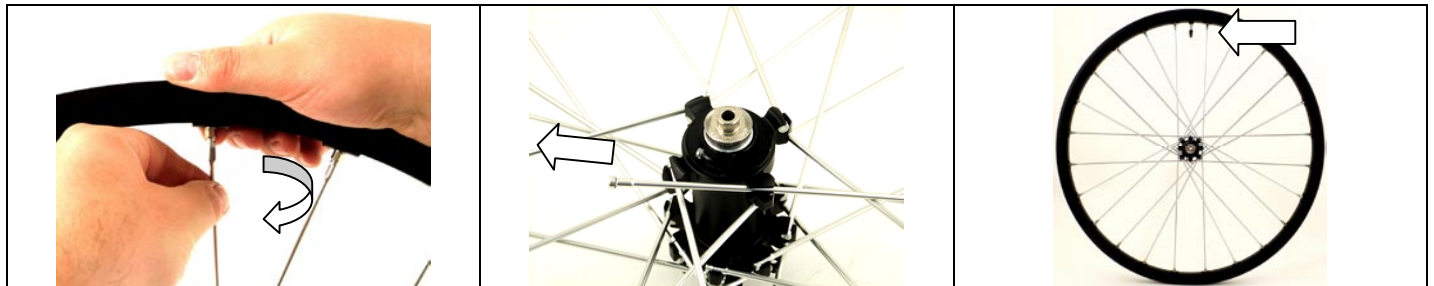
		
<p>13 Bring the nipple out from the hole of the rim.</p>	<p>14 Loosen the magnet-attracting insert from the nipple.</p>	<p>15 Insert the new spoke inside the flange of the hub.</p>
		
<p>16 Manually tighten the spoke on the nipple.</p>	<p>17 Tighten the nipple with the wrench, holding the spoke still with the holder, until an adequate tension is reached.</p>	<p>18 After tensioning, apply threadlocker between the nipple and the spoke.</p>
		
<p>19 Insert the valve on the rim.</p>	<p>20 Tighten the sealing ring.</p>	<p>21 Tighten the closure cap.</p>

MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	INDUSTRIAL BEARINGS MECHANISM	004	0/2011	SPOKE REPLACEMENT RED METAL 1XL / RED ZONE XLR FRONT AND REAR WHEEL
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Metal 1 XL™	Red Zone™ XLR			



1 Locate the spoke to be replaced.	2 Fit the wrench on the nipple	3 When round head spokes are being loosened, they tend to spin around. Use the special spoke retaining ring to hold the spoke still during the operation.
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4 When the nipple is loosened, proceed manually to extract the spoke from the flange of the hub.	5 Extract the spoke from the flange of the hub.	6 If it is necessary to replace the nipple as well, to extract it from the rim you first have to disassemble the valve. ► For valve disassembly see <i>OPERATION 003 (steps 5 to 8)</i> .
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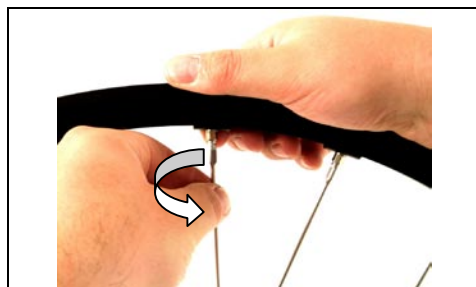


7 Tighten the magnet-attracting insert on the nipple.	8 Completely tighten the insert on the nipple to prevent it from sliding out while being drawn inside the rim.	9 Insert the nipple with the insert inside the rim through the valve hole.
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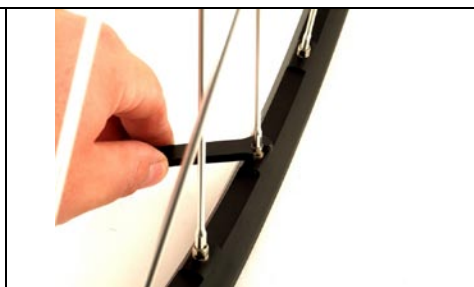
10 Insert the nipple with the insert inside the rim through the valve hole. Using the special magnet, pull the nipple inside the rim up to the hole of the spoke to be replaced.	11 Bring the nipple out from the hole of the rim. Loosen the magnet-attracting insert from the nipple.	12 Insert the new spoke inside the flange of the hub.
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MAINTENANCE



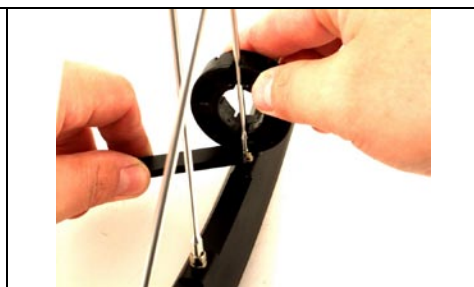
13

Manually tighten on the nipple.



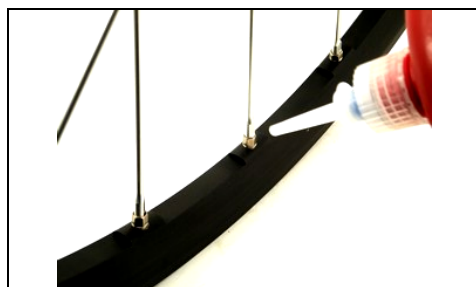
14

Fit the wrench on the nipple.



15


Tighten the nipple with the wrench, holding the spoke still with the spoke retaining ring, until an adequate tension is reached.








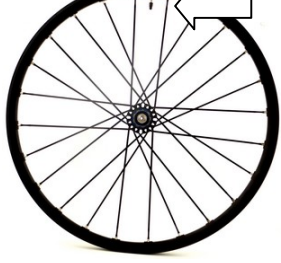
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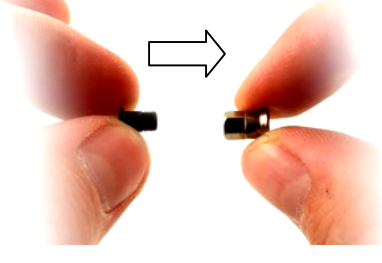
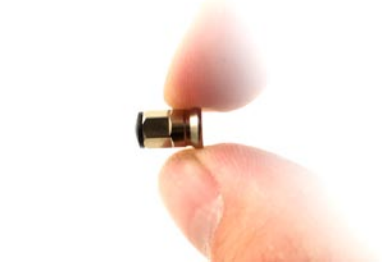

After tensioning, apply threadlocker between the nipple and the spoke. If the valve has been disassembled, re-assemble it. ► For valve assembly see OPERATION 003 (steps 19 to 21)

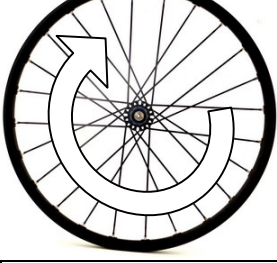


MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	CUP/CONE MECHANISM	005	0/2011	SPOKE REPLACEMENT RED METAL 0 XRP FRONT AND REAR WHEEL
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Metal 0 XRP™				

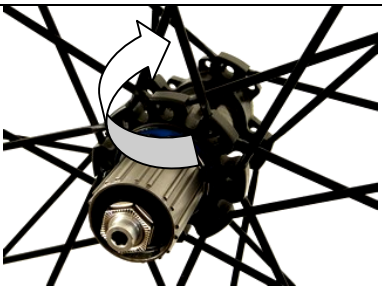




		
1 Locate the spoke to be replaced.	2 Fit the wrench on the nipple	3 Use the special spoke retaining ring to hold the spoke still during the operation.

		
4 When the nipple is loosened, proceed manually to extract the spoke from the flange of the hub.	5 Extract the spoke from the flange of the hub.	6 If it is necessary to replace the nipple as well, to extract it from the rim you first have to disassemble the valve. ► For valve disassembly see OPERATION 003 (steps 5 to 8)






		
7 Tighten the magnet-attracting insert on the nipple.	8 Completely tighten the insert on the nipple to prevent it from sliding out while being drawn inside the rim.	9 Insert the nipple with the insert inside the rim through the valve hole.




		
10 Insert the nipple with the insert inside the rim through the valve hole. Using the special magnet, pull the nipple inside the rim up to the hole of the spoke to be replaced.	11 Bring the nipple out from the hole of the rim. Loosen the magnet-attracting insert from the nipple.	12 Insert the new spoke inside the flange of the hub.

MAINTENANCE



		
<p>13 Rotate the spoke by 90° towards the rim so that the head of the spoke hooks onto the flange of the hub.</p>	<p>14 Manually tighten on the nipple.</p>	<p>15 Fit the wrench on the nipple.</p>
		
<p>16 Tighten the nipple with the wrench, holding the spoke still with the holder, until an adequate tension is reached.</p>	<p>17 After tensioning, apply threadlocker between the nipple and the spoke. If the valve has been disassembled, re-assemble it. ► For valve assembly see <i>OPERATION 003 (steps 19 a 21)</i></p>	

MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION					
MTB WHEELS	INDUSTRIAL BEARINGS MECHANISM	006	0/2011	SPOKE REPLACEMENT RED POWER XL/SL/RED HEAT FRONT AND REAR WHEEL NON-DRIVE SIDE					
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED									
									
Red Power XL™	Red Power SL™	Red Heat	Red Power XL™ / 29 XL™	Red Power SL™ / 29 SL™					

		
<p>1</p> <p>The nipple is loosened using a 5.5 mm hex screwdriver.</p>	<p>2</p> <p>Insert the screwdriver on the rim and loosen the nipple. When round head spokes are being loosened, they tend to spin around. Use the special holder tool to hold the spoke still during the operation.</p>	<p>3</p> <p>Remove the spoke from the flange of the hub.</p>


		
<p>4</p> <p>Insert the new spoke.</p>	<p>5</p> <p>Make sure that the nipple is intact. Replace if damaged.</p>	<p>6</p> <p>Insert the nipple in the screwdriver.</p>

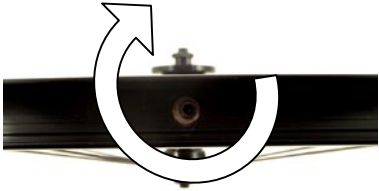








	
<p>7</p> <p>Tighten the nipple on the spoke. When round head spokes are being loosened, they tend to spin around. Use the special holder tool to hold the spoke still during the operation.</p>	<p>8</p> <p>After tensioning, apply threadlocker between the nipple and the spoke in the inner part of the rim.</p>

MAINTENANCE



GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	INDUSTRIAL BEARINGS MECHANISM	007	0/2011	CURVED HEAD SPOKE REPLACEMENT RED POWER FRONT AND REAR WHEEL

PRODUCTS ON WHICH THE PROCEDURE IS APPLIED

									
Red Power™									

		
<p>1</p> <p>The nipple is loosened using a 5.5 mm hex screwdriver.</p>	<p>2</p> <p>Insert the screwdriver on the rim and loosen the nipple. When round head spokes are being loosened, they tend to spin around. Use the special holder tool to hold the spoke still during the operation.</p>	<p>3</p> <p>Remove the spoke from the flange of the hub.</p>
		
<p>4</p> <p>When fitting the spoke, respect the insertion direction of the spoke head. There are two possible positions: 1) Head facing the outside of the hub 2) Head facing the inside of the hub.</p>	<p>5</p> <p>Insert the new spoke.</p>	<p>6</p> <p>Make sure that the nipple is intact. Replace if damaged.</p>
		
<p>7</p> <p>Insert the nipple in the screwdriver.</p>	<p>8</p> <p>Tighten the nipple on the spoke. When round head spokes are being loosened, they tend to spin around. Use the special holder tool to hold the spoke still during the operation.</p>	<p>9</p> <p>After tensioning, apply threadlocker between the nipple and the spoke in the inner part of the rim.</p>

MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	CONE/CUP MECHANISM	008	0/2011	FREEWHEEL BODY DISASSEMBLY AND ASSEMBLY REAR WHEEL WITH CONE/CUP
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Carbon XRP™	Red Metal 0 XRP™			



1 Fix the 17 mm wrench on the hub axle lock nut. Insert the 5 mm hex wrench inside the hexagon of the axle and loosen the lock nut anti-clockwise.

2 Completely loosen the lock nut.

3 Remove the resin spacer.



4 Remove the freewheel body from the hub axle.

5 If necessary also grease inside the pawls of the freewheel body. OPERATION 013.

6 Fit the freewheel body on the rear axle.



7 Using a screwdriver, fit the pawls inside the hub shell.

8 Completely insert the freewheel body.



9 Insert the spacer.



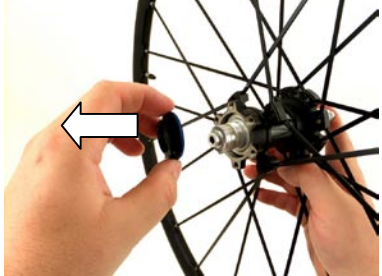



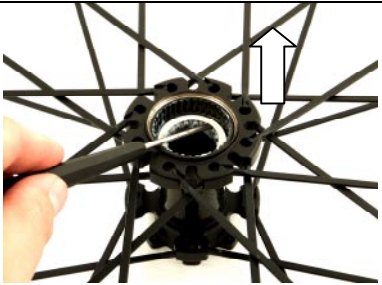
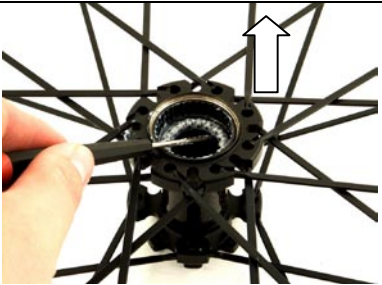



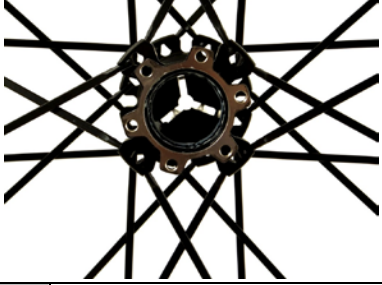


10 Tighten the lock nut on the axle.

11 Insert the 5 mm hex wrench inside the axle and, keeping it still, tighten the lock nut with the 17 mm torque wrench.

MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	CONE/CUP MECHANISM	009	0/2011	HUB DISASSEMBLY AND ASSEMBLY FRONT AND REAR WHEEL WITH CONE/CUP
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Carbon XRP™	Red Metal 0 XRP™			

		
<p>1</p> <p>► For freewheel body disassembly see OPERATION 008 (steps 1 to 4). Use a 2.5 mm allen wrench to loosen the screw of the hub adjusting sleeve.</p>	<p>2</p> <p>Loosen the hub adjusting sleeve anti-clockwise, holding the axle still from the opposite side.</p>	<p>3</p> <p>Remove the adjusting sleeve.</p>
		
<p>4</p> <p>Push the axle towards the inside of the hub body so that it comes out from the opposite side.</p>	<p>5</p> <p>Extract the axle, be careful not to lose the cone.</p>	<p>6</p> <p>Remove the cone and the adjusting cone.</p>
		
<p>7</p> <p>Using a screwdriver, remove the cup shield. Repeat the operation from the opposite side.</p>	<p>8</p> <p>Remove the ball bearing ring from cup of the hub body being careful not to damage it. Incorrect handling could make the ball come out of its seat. Repeat the operation from the opposite side.</p>	<p>9</p> <p>Remove the cups using the special extractor. The cup extractor is composed of two parts: a specific extractor for off-road cups and a punch.</p>
		
<p>10</p> <p>Insert the extractor inside the hub body and hook the cup to be extracted.</p>	<p>11</p> <p>When it is hooked correctly, the extractor stays still without your help. Rotate the hub from the opposite side.</p>	<p>12</p> <p>Insert the extractor from the opposite side and hook in the hole with the punch.</p>

MAINTENANCE



13
When the punch is hooked correctly, it stays still without your help.



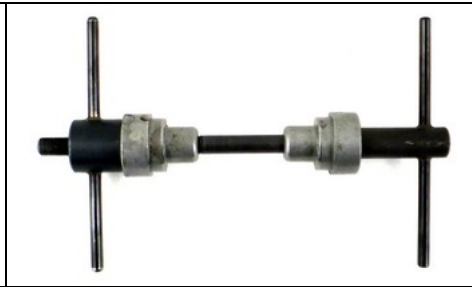
14
Tap the punch lightly with a plastic hammer until the cup comes out.



15
Repeat the same operation from step 10 to remove the cup from the other side.



16
Clean the cup thoroughly.



17
Use the special tool for driving the cups.



18
Loosen the threaded insert.



19
Remove the moving part of the tool.



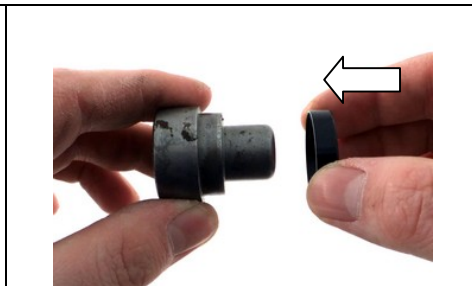
20
Insert the first cup inside.



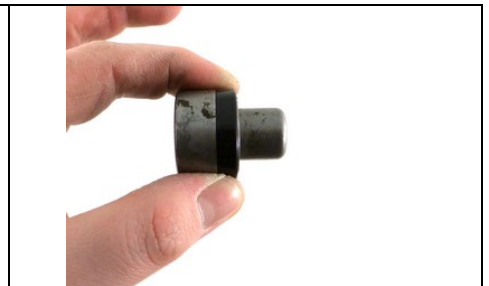
21
Firmly seat the cup on the fixed guide.



22
Insert the tool inside the hub body.



23
Insert the second cup on the moving part of the tool.



24
Firmly seat the cup.



25
Insert the moving part inside the threaded axle.


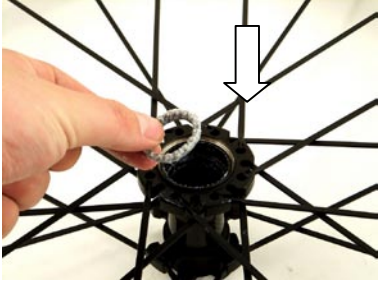


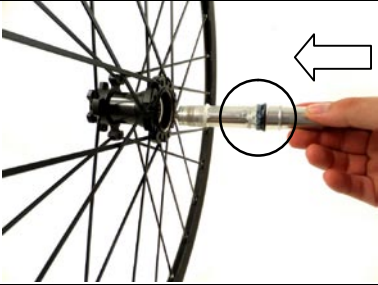


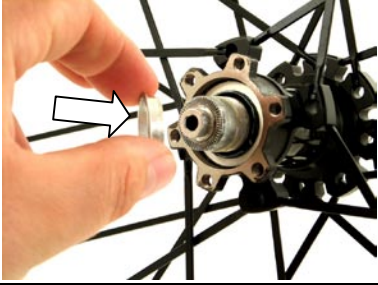






26
Tighten the threaded insert.


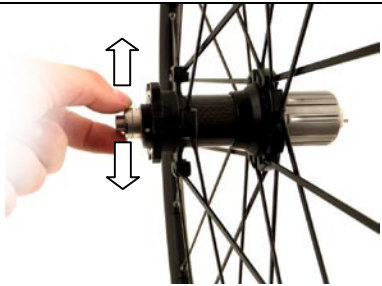


27
Tighten the two handles of the tool up to complete insertion of the cups in their seats on the hub body. Loosen the moving part and remove the tool from the hub.









MAINTENANCE

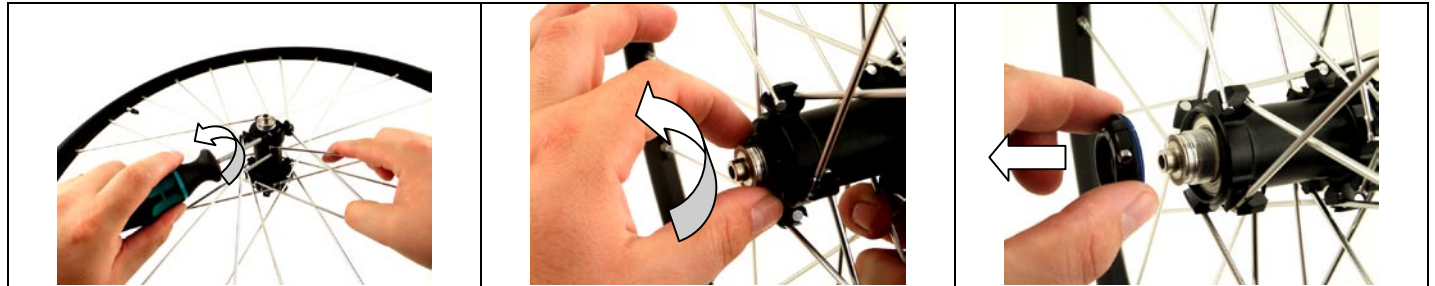
		
<p>28</p> <p>Grease the surface of the ball race of the cup using Campagnolo LB-100 grease. The quantity of grease applied should cover about 75% of the free space between balls and cups.</p>	<p>29</p> <p>Insert the bearing ring inside the hub body.</p>	<p>30</p> <p>Insert the shield inside the hub body. The black part of the gasket should be facing the inside of the hub body.</p>
		
<p>31</p> <p>The hub shield must be intact; replace if damaged. Repeat the operation on the side opposite (steps 28 to 31).</p>	<p>32</p> <p>Re-fit the axle respecting the correct positioning of the cone. The largest diameter must be facing outwards.</p>	<p>33</p> <p>Insert the axle inside the hub body.</p>
		
<p>34</p> <p>On the opposite side, insert the cone on the hub axle, respecting the insertion direction. The largest diameter is facing the outside of the hub body.</p>	<p>35</p> <p>Insert the adjusting cone on the hub axle, respecting the insertion direction. The largest diameter is facing the outside of the hub body.</p>	<p>36</p> <p>Position it in the seat using a screwdriver. Accompany the adjusting cone, pressing on multiple points of the circumference.</p>
		
<p>37</p> <p>Fit the adjusting sleeve. Replace if damaged.</p>	<p>38</p> <p>Tighten the adjusting sleeve clockwise while holding the axle still with your right hand.</p>	<p>39</p> <p>Proceed with tightening the allen screw with a torque screwdriver calibrated to 2.5 Nm (22 in.lbs). To reach the pre-set torque, wait for the wrench to click.</p>

MAINTENANCE

	
<p>40</p> <p>► For freewheel body assembly see <i>OPERATION 008</i> (steps 5 to 11).</p>	<p>41</p> <p>Check the movement of the axle in rotation; adjust if necessary using the adjusting sleeve.</p>

MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION					
MTB WHEELS	INDUSTRIAL BEARINGS MECHANISM	010	0/2011	HUB DISASSEMBLY FRONT AND REAR WHEEL WITH INDUSTRIAL BEARING					
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED									
									
Red Metal 1 XL™	Red Fire™	Red Metal 3™	Red Power XL™/29 XL™	Red Power SL™ / 29 SL™	Red Power™	Red Zone™	Red Heat™		



1 Use a 2.5 mm allen wrench to loosen the screw of the hub adjusting sleeve.

2 Loosen the hub adjusting sleeve anti-clockwise, holding the axle still from the opposite side.

3 Remove the adjusting sleeve, to be subsequently re-fitted.



4 Push the axle towards the inside of the hub body so that it comes out from the opposite side.

5 Remove the axle from the hub body.

6 Remove the protective cover of the axle disk side.



7 Use a suitably sized extractor to extract the bearings.

8 Check the correct positioning of the extraction teeth inside the bearing.

9 Use a slide hammer to extract the bearing.



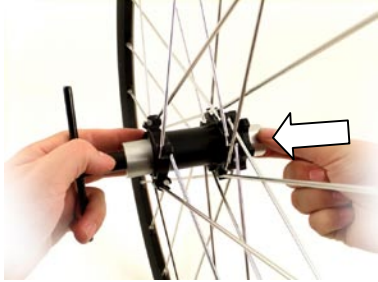



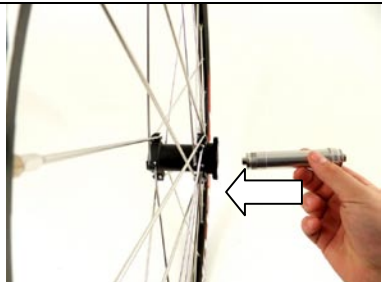



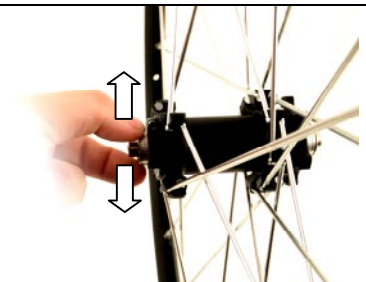


10 Repeat the operation for the opposite side.





11 Check that the bearings are in good condition and that their rotation movement is fluid and free from jamming. Otherwise, replace them.

12 Fit the bearing into the guide.

MAINTENANCE

		
<p>13 Insert the guide in the threaded axle.</p>	<p>14 Insert the threaded axle inside the hub body of the wheel, bringing the axle out from the opposite side.</p>	<p>15 Insert the other bearing in the guide.</p>
		
<p>16 Tighten the tool until the bearings are fully pressed into the hub seats.</p>	<p>17 Loosen the guide for pressing the bearings and remove the threaded axle from inside the hub body.</p>	<p>18 Insert the non-drive side protective cover on the hub axle. The flat part faces the outside of the hub.</p>
		
<p>19 Insert the axle inside the hub body.</p>	<p>20 Check that the axle is correctly positioned.</p>	<p>21 Tighten the adjusting sleeve clockwise while holding the axle still with your right hand.</p>
		
<p>22 Proceed to tightening the allen screw with a torque screwdriver calibrated to 2.5 Nm (22 in.lbs). To reach the pre-set torque, wait for the wrench to click.</p>	<p>23 Check the movement of the axle in rotation; adjust if necessary using the adjusting sleeve.</p>	

MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	ALL	011	0/2011	INSTALLATION OF THE QR/THRU-AXLE 15 mm ADAPTER KIT
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Metal 0 XRP™	Red Metal 1 XL™	Red Metal 3™	Red Power XL™/29 XL™	



1 Locate the cap to be removed.	2 With the help of a screwdriver, loosen the hub axle cap.	3 Remove the cap.
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4 Take out the KIT.	5 Check that the O-ring is present inside the adapter.	6 Insert the adapter on the hub axle.
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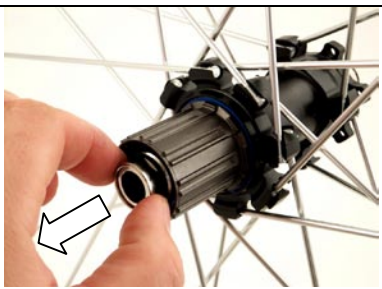
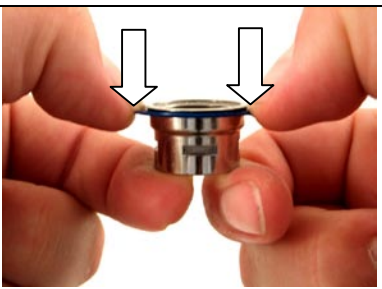


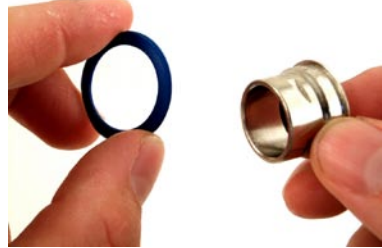
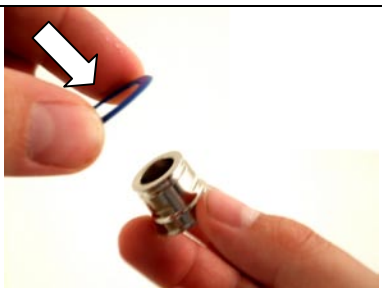

7 Repeat steps 1 to 6 from the other side.
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MAINTENANCE



GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	ALL	012	0/2011	INSTALLATION OF THE SYNTACE X-12 (O.L.D.142mm) ADAPTER KIT
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Metal 0 XRP™	Red Metal 1 XL™	Red Metal 3™		


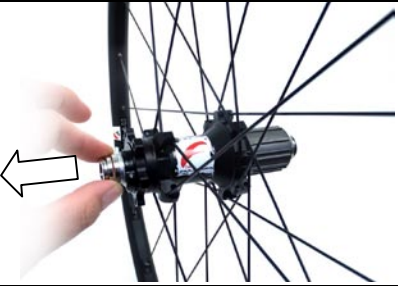







		
<p>1</p> <p>Take out the KIT.</p>	<p>2</p> <p>Remove the end cap of the hub from the side of the disk brake.</p>	<p>3</p> <p>Insert the adapter with shortest length on the disk brake side.</p>

		
<p>4</p> <p>Rotate the hub from the opposite side.</p>	<p>5</p> <p>Remove the end cap of the hub from the side of the sprocket holder body.</p>	<p>6</p> <p>Remove the seal from the cap by pressing on two points at the same time.</p>











		
<p>7</p> <p>Check that the seal is in good condition.</p>	<p>8</p> <p>Insert the seal on the adapter with the longest length. The black shielded part faces towards the inside of the hub body.</p>	<p>9</p> <p>Fit the adapter on the hub axle.</p>

MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION
MTB WHEELS	INDUSTRIAL BEARINGS MECHANISM	013	0/2011	INSTALLATION OF THE ADAPTER KIT THRU-AXLE 12mm 142 → 135mm
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED				
				
Red Power XL™	Red Power 29" XL™			

		
<p>1</p> <p>Take out the KIT.</p>	<p>2</p> <p>Remove the end cap of the hub from the side of the disk brake.</p>	<p>3</p> <p>Insert the adapter with shortest length on the disk brake side.</p>
		
<p>4</p> <p>Rotate the hub from the opposite side.</p>	<p>5</p> <p>Remove the end cap of the hub from the side of the sprocket holder body.</p>	<p>6</p> <p>Remove the seal from the cap by pressing on two points at the same time.</p>
		
<p>7</p> <p>Check that the seal is in good condition.</p>	<p>8</p> <p>Insert the seal on the adapter with the longest length. The black shielded part faces towards the inside of the hub body.</p>	<p>9</p> <p>Fit the adapter on the hub axle.</p>

MAINTENANCE

GROUP	TYPE	OPERATION	REVISION	DESCRIPTION					
MTB WHEELS	ALL	014	0/2011	PAWL REPLACEMENT FREEWHEEL BODY					
PRODUCTS ON WHICH THE PROCEDURE IS APPLIED									
									
Red Carbon XRP™	Red Metal 0 XRP™	Red Metal 1 XL™	Red Fire™	Red Metal 3™	Red Power XL™/29 XL™	Red Power SL™ / 29 SL™	Red Power™	Red Zone™	Red Heat™



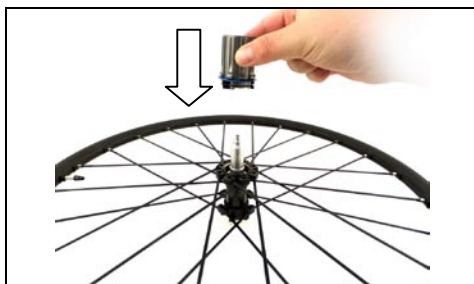
<p>1</p> <p>► For freewheel body disassembly see <i>OPERATION 008</i> (steps 1 to 4).</p>	<p>2</p> <p>Disassemble the spring using a screwdriver and remove the pawls.</p>	<p>3</p> <p>Before assembling, immerse the new pawls in synthetic oil. Remove the pawls from the oil and let the excess oil drip off.</p>
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<p>4</p> <p>Using Campagnolo LB-100 grease, grease the seat of the pawl in correspondence with the spring groove.</p>	<p>5</p> <p>Repeat the operation for all the pawls.</p>	<p>6</p> <p>Insert the pawl in its seat.</p>
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<p>7</p> <p>Insert the pawls one at a time, positioning the spring in its seat.</p>	<p>8</p> <p>Check that the spring inside the pawl grooves is correctly inserted.</p>	<p>9</p> <p>Check that the movement of the pawls is not sluggish by pressing them manually.</p>
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10

► For freewheel body assembly see *OPERATION 008* (steps 5 to 11).

<h1>TOOLS</h1>		SYMBOLS KEY:		
		FULCRUM PRO-TOOLS		Tool that can be purchased from Fulcrum's dealers
		PRO-TOOLS		Professional tools that can be purchased from specialised stores (for information on where they can be purchased contact Campagnolo's Authorised Service Centres)
		USER TOOLS		Common tool available to the user
PHOTO	CODE	DESCRIPTION	CHARACTERISTICS	TOOL TYPE
	T-02	Spoke retainer ring		FULCRUM PRO-TOOLS
	T-07	Spoke wrench		FULCRUM PRO-TOOLS
	T-20	Nipple wrench for Red Carbon		FULCRUM PRO-TOOLS
	T-05	Nipple-guide magnet		FULCRUM PRO-TOOLS
	T-03	RACING 1 - RACING ZERO - RED METAL ZERO - RED CARBON magnet-attracting nipple insert		FULCRUM PRO-TOOLS
	T-04	RACING 3 magnet-attracting nipple insert		FULCRUM PRO-TOOLS
	T-10	RED METAL 1 - RED METAL 3 - RED METAL 29 XLR - RED FIRE magnet-attracting nipple insert		FULCRUM PRO-TOOLS
	WH-109HYC	Lever for removing clincher		FULCRUM PRO-TOOLS
	UT-BB130	Tool for AFS lockring and RACING TORQ cups		FULCRUM PRO-TOOLS
	UT-BB140	Tool for RACING TORQ Os-Fit cups		FULCRUM PRO-TOOLS
	N.D.	Holder for round spokes		PRO-TOOLS
	N.D.	Nipple thread-locker		PRO-TOOLS
	N.D.	17mm dynamometric spanner	Set to close at 15 Nm (132 in. lbs)	PRO-TOOLS
	N.D.	Truing Stand		PRO-TOOLS
	N.D.	Feeler gauge centesimal	Resolution 0.01 mm	PRO-TOOLS
	N.D.	Analogue or digital tensiometer		PRO-TOOLS
	N.D.	Dishing Tool		PRO-TOOLS
	N.D.	Professional bearing stripper	Strippers with a diameter ranging from 7 mm to 28 mm	PRO-TOOLS
	N.D.	Torque screwdriver with a 2.5mm Allen driver bit	Closure range from 1.2 Nm (11in.lbs) to 3.0 Nm (27 in.lbs)	PRO-TOOLS
	N.D.	Cup extractor for road hubs		PRO-TOOLS
	N.D.	Cup extractor for MTB hubs		PRO-TOOLS

TOOLS			SYMBOLS KEY:	
			FULCRUM PRO-TOOLS	Tool that can be purchased from Fulcrum's dealers
			PRO-TOOLS	Professional tools that can be purchased from specialised stores (for information on where they can be purchased contact Campagnolo's Authorised Service Centres)
			USER TOOLS	Common tool available to the user
PHOTO	CODE	DESCRIPTION	CHARACTERISTICS	TOOL TYPE
	N.D.	Tool to fully insert the cups	Road / MTB version	PRO-TOOLS
	N.D.	Open-ended wrenches	Measurement 15 and 17	USER TOOLS
	N.D.	Wrench with allen / Torx insert	Allen: 2.5 mm Torx: TR 09	USER TOOLS
	N.D.	Screwdriver with hexagonal insert for nipple 3.2 mm		USER TOOLS
	N.D.	Hammer with plastic head	Head diameter 22 mm	USER TOOLS
	N.D.	Set of fixed allen keys	Range 1.5 mm to 10 mm	USER TOOLS
	N.D.	Set of screwdrivers		USER TOOLS
	N.D.	Hard bristle brush		USER TOOLS

FREQUENTLY ASKED QUESTIONS

	QUESTIONS	ANSWERS
1	Where can I find the specific weight of each individual wheel?	The weight specifications are provided on the technical sheet of each wheel or component, as well as in the Fulcrum catalogue.
2	What are the weight limits of the wheels? Where can I find the weight limits allowed by the wheels?	All Fulcrum wheels are constructed to meet the highest standards of resistance and durability. If you weigh over 109 kg/240 lbs we advise you not to use this product. Non compliance with this warning can damage the product irreversibly. If you weigh 82 kg/180 lbs or more, you must be especially vigilant and have your bicycle inspected more frequently (than someone weighing less than 82 kg/180 lbs). Check with your mechanic to discuss whether the wheels you selected are suitable for your use, and to determine the frequency of inspections. Using tires with a larger diameter and a frame that respects the standards will help to increase the lifetime of the wheels.
3	What does "Tubeless" mean?	Tubeless tires do not have an inner tube, because the air is sealed inside the tire.
4	What does "2:1 Two-to-One™" mean?	At the moment you push on the pedals, the rotational force on the sprocket causes a slackening of the freewheel spokes, with a consequent loss of rim tension. This translates into excessive flexing of the whole wheel and an inevitable dispersion of energy. Fulcrum® resolved this classic cycling problem with our patented 2:1 Two-to-One™ Spoke Ratio, by doubling the spokes in the critical zones. So two spokes carry out the function of one, slackening and torsion are extremely limited, and the transmission of power from the athlete is much more effective. Also thanks to this patented system, the spoke tension levels are more correctly balanced and the fatigue life of the rim, hub, and spokes is prolonged.
5	What type of grease should I use for servicing the hubs?	We recommend using original Campagnolo grease, available in the Campagnolo spare parts catalogue in 100ml tubes (Code LB-100).
6	What is meant by "Cross Country" (XC)?	An XC is a mountain bike designed for cross-country racing or for shorter recreational rides, with a front suspension frame (or even a rigid one for greater reactivity, in which case good skill is needed, especially in the highly technical tracts that distinguish this discipline). Generally, the frame is aluminium and/or carbon (more rarely steel or titanium), with v-brakes or disk brakes (in both steel and aluminium: the latter are lighter and more delicate) with rotor dimensions around 160 millimetres diameter, fork with 80-100 millimetres of excursion, and it has a very limited weight (from 9 to 12 kilos). Over the last several years, full suspension frames have also become more widely used for cross-country and marathon competitions (these are different types of races: cross-country is more technical, whereas marathon races are no less than 60 kilometres), characterised by limited rear excursion (75-100 millimetres) while still with a limited weight (around 11-12 kilos) and suspension systems aimed at the maximum limiting of shock absorber movement in the pedalling phase.
7	What is meant by "All Mountain (AM)/Enduro"?	All Mountain (AM)/Enduro refers to mountain bikes that are generally heavier than XC bikes, ranging from 14 to 16 kg. These bikes generally have greater suspension travel, usually with excursion of 150 mm, adjustable. They are more commonly used for downhill than uphill in mountain rides, integrating the characteristics of XC bikes with the shock absorber technology of freeride bikes.
8	What is meant by "Downhill" (DH)?	Downhill (DH) refers to mountain bikes having a suspension travel of 200 mm. They have a very sturdy construction to provide the maximum reliability during races, and they weigh about 20 kg. Given their characteristics (long ratios and forks with more shock absorption), DH bikes can only be used for dedicated downhill courses and races.
9	What is meant by "Freeride"?	Freeride is the term used for mountain bikes similar to All Mountain bikes but with an emphasis less on the weight and more on the suspension. Freeride bikes generally have a suspension travel of 200 mm. The components are constructed using the strongest and most resistant materials, and consequently are heavier. These bikes may be used for uphill riding but they do not perform well in this context.
10	On the MTB wheels, is it possible to mount a 180 mm disc?	On our MTB wheels it is possible to mount any brake disc that conforms to the dimensions of the 6-bolt or AFS system. Brake discs usually have standard dimensions of 160 mm, but it is also possible to mount discs with larger diameters provided that an adaptor bracket is applied on the caliper that acts on the brake disc; it is normally supplied along with the braking system.
11	On the MTB wheels, is it possible to fit a normal clincher tire with inner tube on a wheel designed for tubeless tires and vice versa?	Absolutely not. Using the wrong or improper type of tire can be a cause of danger, damage, and accidents that may even be lethal.

Headquarters

Service Center Network 2011/12

FULCRUM WHEELS S.R.L.

Via E.Fermi 13
36057 Arcugnano (VI)
Tel. +39 0444 289306
Fax +39 0444 962844
info@fulcrumwheels.com
technical@fulcrumwheels.com

BRANCH OFFICES

FRANCE

FULCRUM FRANCE
58640 Varennes Vauzelles
Tel. +33 386 577867
infos@fulcrumwheels.fr

FULCRUM CENTRAL EUROPE

BERLIN GERMANY
Tel. +49 (163) 625 8941
info@fulcrum-ce.com

JAPAN

FULCRUM JAPAN
65 Yoshida-cho, Naka-ku
231-0041 Yokohama
Tel +81 45 264 2780
info@fulcrum-jp.com

NORTH AMERICA - USA

FULCRUM NORTH AMERICA
Sarasota, Florida
Tel +1 (941) 894 7930
info@fulcrum-na.com

TAIWAN

PRIMATEK Ltd.
No.4, Gongyequ 10th Rd.
Taichung City 407 - Xitun Dist.
Taiwan (R.O.C.)
Tel: +886 4 23506831
Fax: +886 4 23596764
info@primatek.biz

FULCRUM WHEELS S.R.L.

Via E.Fermi 13
36057 Arcugnano (VI)
Tel. +39 0444 289306
Fax +39 0444 962844
info@fulcrumwheels.com
technical@fulcrumwheels.com

AUSTRALIA

DE GRANDI CYCLES
Geelong Victoria
Tel. +61 35225 3898
Fax +61 35222 3850
e-mail: info@degrandi.com.au

AUSTRIA

EHS
A-4600 WELS
Tel. +43 7242 206360221
Fax +43 7242 20636020
e-mail: office@ehs.at

BELGIUM

SPORT BIKES BVBA
Industrielaan 46
9660 Brakel
Tel. 0032 55 42 63 37
Fax 0032 55 42 61 33
Service-be@fulcrumservice.com

VAN DER WAL N.V.

2627 Schelle
Tel. + 32 3 880 6391
e-mail: info@van-der-wal.be

CANADA

CYCLES LAMBERT INC.
Levis (Quebec City)
Canada
Tel. +1 418 835 1685
Fax +1 418 8355322
e-mail: info@cycleslambert.com

CHINA

POWER RACING (Wujiang) Co Ltd
No 2278 Pangjin Road, Wujiang
Econ Tech Development Zone,
Jiang Su Province PRC, (PC#215200)
Tel. +86 512 63106018;
+86 10 59231016
e-mail: info@ironorechina.com

CZECH REPUBLIC , SLOVAKIA

CAROSELO S.R.O.
70200 Ostrava
CHECK REPUBLIC
Tel. +420 596 745693
Fax +420 596 745 692
e-mail: maxcursor@maxcursor.cz

DENMARK, NORWAY, SWEDEN

INTERCYCLE A/S
Tarupvej 63-65
Dk-5210 Odense nv
Tel. +45 6316 8030
Fax +45 6316 8002
e-mail: info@intercycle.dk

FRANCE

FULCRUM FRANCE EURL
58640 VARENNES VAUZELLES
Tel. +33 3 86 90 34 20
e-mail: sav@fulcrumwheels.fr

GERMANY

HERMANN HARTJE KG
27318 Hoya/Weser
Tel. +49 425 18110
e-mail: hartmut.wiechmann@hartje.de

JBS RADSPORT GROSSHANDEL E.H.

D-52249 Eschweiler
Tel. +49 240378360
Fax +492403783679
e-mail: kontakt@jbs-trading.de

JAPAN

FULCRUM Japan Service Center
Yokohama
Tel. +81 45 342 8230
Fax +81 45 241 8035
e-mail: info@fulcrum-jp.com

KOREA

VERY GOOD LEISURE (CELLOSPORT)
Nonhyun-dong, Gangnam-gu Seoul
Tel. +82 2 3014 4075
Fax +82 2 3448 5482
e-mail: choj21@cellosports.com

NETHERLAND

ONE WAY DISTRIBUTION
Postbus 12 , 3000 AA Rotterdam
Tel. 010 340 3510
Fax 010 340 3501
e-mail: Service-nl@fulcrumservice.com

NEW ZEALAND

W.H.WORRALL & CO. LTD.
Auckland New Zeland
Tel. +64 9 6360641
Fax +64 9 6360631
e-mail: david@worrall.co.nz

PORTUGAL

VIEIRA GRACA & CA. LDA
Zona Industrial de Alferrarede
2200-293 Abrantes
PORTUGAL
Tel. +351 241371 766 (8)
Fax +351 241377 415
e-mail: vieira.graca.jb@gmail.com

SPAIN

CASA MASFERRER S.A.
08400 Granollers- Barcelona (E)
Tel. +34 93 8463444
Fax +34 93 8465355
e-mail: cmventas@casamassferrer.com

SWITZERLAND

GOOD PRICE GPR AG
8610 Uster
Tel. +41 44 9449393
Fax +41 44 9449394
e-mail: info@gprag.ch

TAIWAN

MARECHAL INTERNATIONAL CO.,
LTD.
No.9, Sinmin Lane, Nantun District
Taichung City 40871, Taiwan
Tel +886-4 2479 3208
Fax +886-4 2479 3209
e-mail: asia@marechal.co

UNITED KINGDOM

I-RIDE.CO.UK
7-8B Mid Sussex Bus. Park
Ditchling Common Ind. Est.
Folders Lane East, Ditchling, Sussex
BN6 8SE
Tel. 01444 243000,
Fax 01444 239215
e-mail: service@i-ride.co.uk

U.S.A.

QUALITY BICYCLE PRODUCTS, INC.
55438-2554 BLOOMINGTON, MN
Tel. +1 952 9419391
Fax +1 952 6565252
e-mail: info@qbp.com

BTI

SANTA FE, NM 87507
Tel. +1 505.4731010
Fax +1 505.4730011
e-mail: info@bti-usa.com



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We have tried to be precise but would like to apologize for any mistakes that there might be in this catalogue. We must also point out that we reserve the right to change products, surface finish and specifications at any moment without prior notice. For further information, please visit our site www.fulcrumwheels.com, which is regularly updated.