SPARE PARTS

SAFETY RECOMMENDATIONS

A - BEFORE EVERY RIDE

- Check to be sure that all quick release fasteners, nuts and bolts are properly adjusted. Bounce the bicycle on the ground and listen and look for anything which may be loose.
- Be sure that your tires are inflated to the correct pressure and that there is no damage whatsoever in the tread or sidewall.
- Be sure that none of the spokes are damaged or loose.
- Be sure that your wheels are perfectly centered. Spin the wheels to be sure that they do not wobble up and down or from side to side, and that they do not make contact with the brake pads while rotating.
- Check your brake pads and cables to be sure they are in good condition.
- Test your brakes in the beginning of your ride to make sure that they are operating properly.
- Check all reflectors to make sure that they are clean, straight, and securely mounted.
- Learn and follow the local bicycle laws and regulations, and obey all traffic signals, signs and laws while you ride.

DO NOT RIDE YOUR BICYCLE IF IT DOES NOT PASS THIS PRE-RIDE TEST. CORRECT ANY CONDITION BEFORE YOU RIDE!

B - GENERAL SAFETY RECOMMENDATIONS

- Be sure that the periodic maintenance schedule is strictly followed.
- Always use original Campagnolo® spare parts.
- Wear clothes which are snug-fitting and which make you visible to traffic, such as neon, fluorescent, or other bright colors.
- Avoid biking at night, because it is more difficult for you to be seen by traffic, and it is more difficult for you to see obstructions on the ground. If you do ride at night, you should equip your bicycle with and use a headlight and a taillight.
- When riding in wet conditions, remember that the stopping power of your brakes is greatly reduced and that the adherence of the tires on the ground is considerably reduced. Also bear in mind that because of the progressive drying of the braking surface during braking itself, braking power may vary sharply. This makes it harder to control and stop your bicycle. Extra care is required when riding your bicycle in wet conditions to avoid an accident.
- Campagnolo S.r.l. reminds you to always wear a properly fitted and fastened bicycle helmet that has been approved by ANSI or SNELL.
- If you ever have any comments, questions, or concerns, please contact your nearest Campagnolo® dealer.

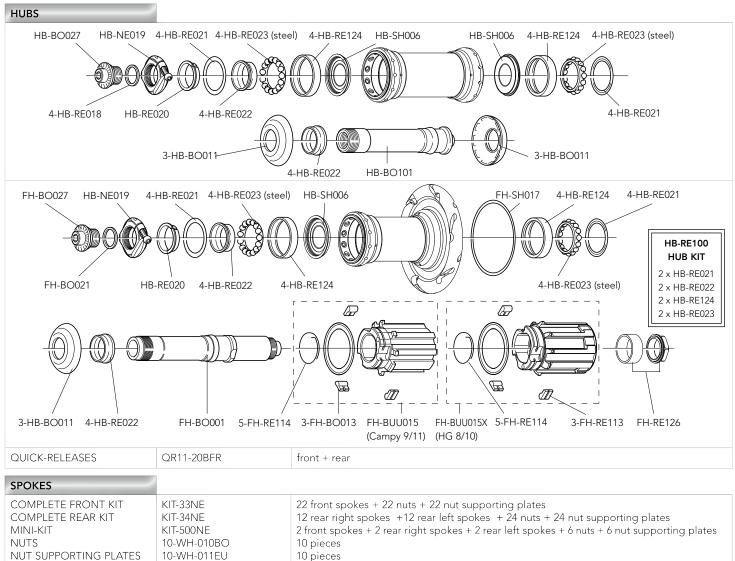
2012 WHEELS TECHNICAL MANUAL

NEUTRON™ ULTRA™ clincher

LOW PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden.	WH12-NECFRXU WH7-NECFU WH7-NECRU	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.470 1.509 630 840 879

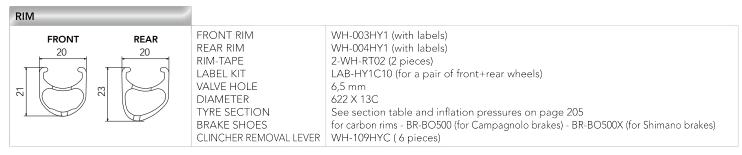


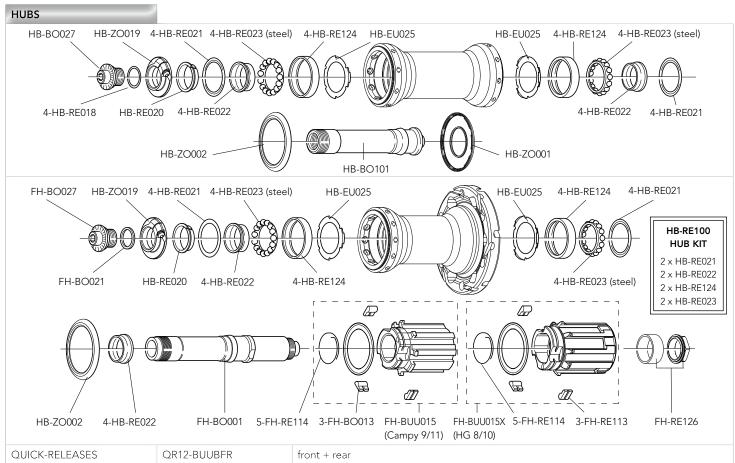


HYPERON™ ONE clincher

LOW PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause	WH10-HYCFRX1 WH10-HYCF1 WH10-HYCFX1 WH10-HYCR1 WH10-HYCRX1	FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X rear Campagnolo FW body+brake shoes BR-BO500 rear HG type FW body+brake shoes BR-BO500X	1.380 1.419 615 615 765 804
accidents, injuries and even death and is therefore expressly forbidden.			





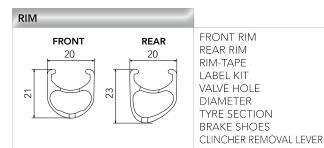
SPOKES		
COMPLETE FRONT KIT	KIT-03HY1	22 front spokes + 22 nuts + 22 front nut supporting plates
COMPLETE REAR KIT	KIT-04HY1	12 rear right spokes + 12 rear left spokes + 24 nuts + 24 rear nut supporting plates
MINI-KIT	KIT-100HY1	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nuts + 2 front nut supporting pla-
		tes + 4 rear nut supporting plates
NUTS	10-WH-010BO	10 pieces
FRONT NUT SUPPORTING PLATES	10-WH-011HY	10 pieces
REAR NUT SUPPORTING PLATES	10-WH-012HY	10 pieces

2012 WHEELS TECHNICAL MANUAL

HYPERON™ ULTRA™ TWO clincher

LOW PROFILE

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3-HB-BO011 4-HB-HY022

QUICK-RELEASES

FH-BO001

QR12-BUUBFR

FRONT RIM
REAR RIM
WH-203HYU (with labels)
RIM-TAPE
LABEL KIT
VALVE HOLE
DIAMETER
TYRE SECTION
WH-203HYU (with labels)
WH-104HYU (with labels)
2-WH-RT02 (16 mm - 2 pieces)
LAB-HYUC09 (for a pair of front+rear wheels)
6,5 mm
622 X 13C
See section table and inflation pressures on p

See section table and inflation pressures on page 205 for carbon rims - BR-BO500 (for Campagnolo brakes) - BR-BO500X (per Shimano brakes) WH-109HYC (6 pieces)

HUBS HB-BO019 4-HB-RE021 4-HB-HY123 (ceramic) 4-HB-HY024 HB-BO027 4-HB-HY024 4-HB-HY123 (ceramic) 4-HB-RE018 HB-RE020 4-HB-HY022 4-HB-HY022 4-HB-RE021 3-HB-BO011 3-HB-BO011 HB-BO101 HB-BO019 FH-BO027 4-HB-RE021 4-HB-HY123 (ceramic) 4-HB-HY024 4-HB-RF021 HB-HY100 CULT™ KIT 2 x HB-RE021 2 x HB-HY022 2 x HB-HY024 FH-BO021 HB-RE020 4-HB-HY022 4-HB-HY024 4-HB-HY123 (ceramic) 2 x HB-HY123

SPOKES COMPLETE FRONT KIT KIT-13HYU 22 front spokes + 22 nuts + 22 front nut supporting plates COMPLETE REAR KIT KIT-14HYU 12 rear right spokes + 12 rear left spokes + 24 nuts + 24 rear nut supporting plates MINI-KIT KIT-400HYU 2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nuts + 2 front nut supporting plates + 4 front nut supporting plates **NUTS** 10-WH-010BO 10 pieces FRONT NUT SUPPORTING PLATES 10-WH-011HY 10 pieces REAR NUT SUPPORTING PLATES 10-WH-012HY 10 pieces

FH-BUU015

(Campy 9/11) (HG 8/10)

FH-BUU015X 5-FH-RE114

3-FH-RE113 FH-RE126

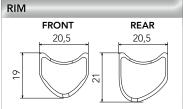
5-FH-RE114 3-FH-BO013

front + rear

HYPERON™ ULTRA™ TWO tubular

LOW PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH9-HYRFRX WH9-HYTF WH9-HYTFX WH9-HYTR	FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X rear Campagnolo FW body+brake shoes BR-BO500X rear HG type FW body+brake shoes BR-BO500X	1.231 1.270 536 536 695 734



FRONT RIM REAR RIM LABEL KIT VALVE HOLE DIAMETER TYRE

BRAKE SHOES

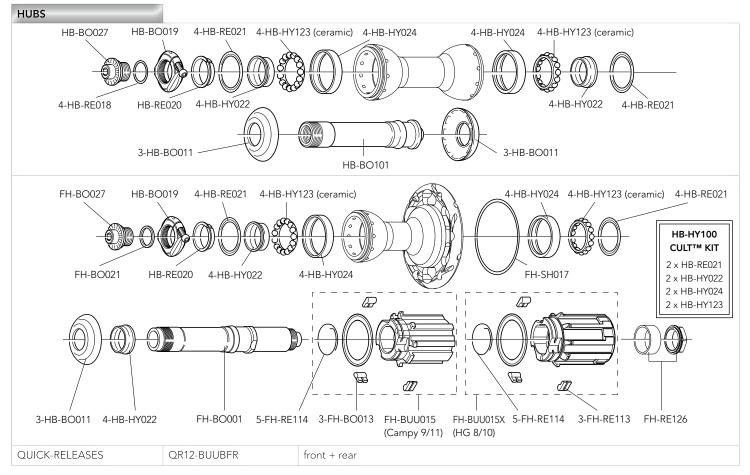
WH-201HY (with labels) WH-202HY (with labels)

LAB-HYT9 (for a pair of front+rear wheels)

6,5 mm 634 mm

See recommended tyre manufacturer inflation pressure

for carbon rims - BR-BO500 (for Campagnolo brakes) - BR-BO500X (for Shimano brakes)



SPOKES		
COMPLETE FRONT KIT	KIT-01HY	22 front spokes + 22 nuts + 22 nut supporting plates
COMPLETE REAR KIT	KIT-02HY	12 rear right spokes + 12 rear left spokes + 24 nuts + 24 nut supporting plates + 12 barrels
MINI-KIT	KIT-100HY	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nuts + 6 nut supporting plates +
		2 barrels
NUTS	10-WH-010BO	10 pieces
NUT SUPPORTING PLATES	10-WH-011HY	10 pieces

NOTES



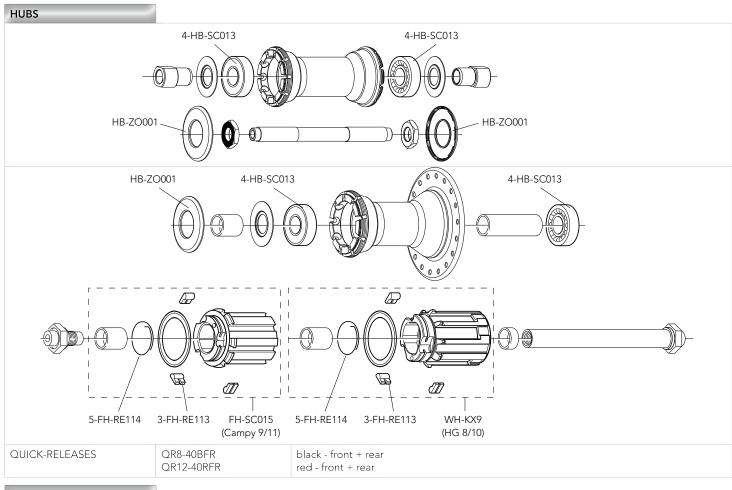
Because of the high temperatures reached when breaking, we recommend you use only glue for tubular tires specifically for carbon fibre rims.

KHAMSIN™ clincher

MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,	WH12-KHCFRXB	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.873 1.912 828 1.045 963
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	RED&BLACK WH12-KHCFRRB WH12-KHCFRXRB WH12-KHCFRB WH12-KHCRRB WH12-KHCRXRB	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.873 1.912 828 1.045 963

RIM-TAPE LABEL KIT VALVE HOLE DIAMETER TYRE SECTION RIM-TAPE LAB-KHCB11 (18 mm - 2 pieces) LAB-KHCB12 (RED&BLACK - front+rear) 6,5 mm 700C (622 x 15C) See section table and inflation pressures on page 205



SPOKES		
COMPLETE FRONT KIT	KIT-23KHB	24 front spokes + 24 nipples
COMPLETE REAR KIT	KIT-24KHB	18 rear right spokes + 9 rear left spokes + 27 nipples
MINI-KIT	KIT-300KHB	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	50-WH-NZO	50 pieces

VENTO™ REACTION™ clincher

MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-VECFRXB WH10-VECFB WH10-VECRB WH12-VECRXB	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.827 1.866 825 1.002 1.041

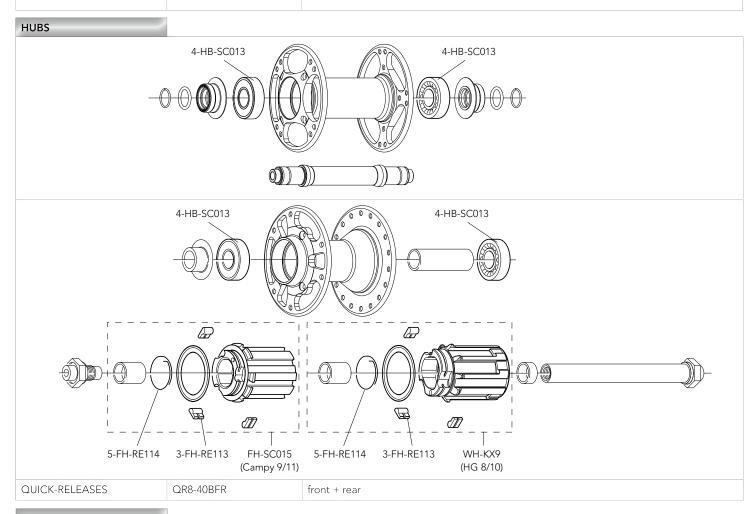
20,5 7

RIM-TAPE LABEL KIT VALVE HOLE DIAMETER TYRE SECTION

2-WH-RT01 (18 mm - 2 pieces) LAB-VECB11 (for a pair of front+rear wheels) 6,5 mm

700C (622 x 15C)

See section table and inflation pressures on page 205



SPOKES		
COMPLETE FRONT KIT	KIT-23VEB	23 front spokes + 1 balancing spoke + 24 nipples
COMPLETE REAR KIT	KIT-34VEB	18 rear right spokes + 8 rear left spokes + 1 rear left balancing spoke + 27 nipples
MINI-KIT	KIT-700VEB	3 front spokes + 5 rear spokes + 7 nipples
NIPPLES	50-WH-NZO	50 pieces
NIPPLES	50-WH-NZO	

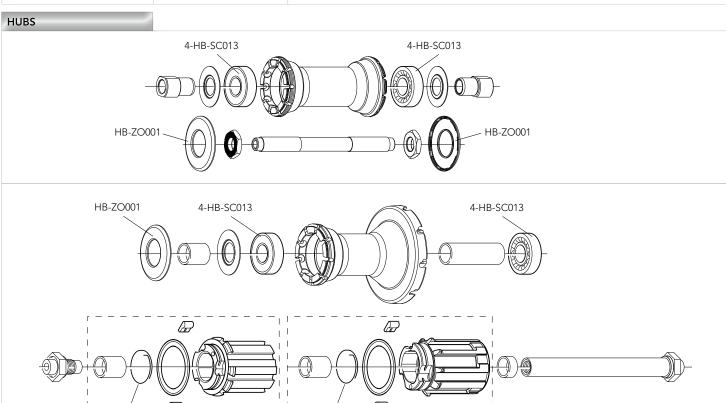
SCIROCCO™ clincher

MEDIUM PROFILE

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RIM-TAPE
LABEL KIT
VALVE HOLE
DIAMETER
TYRE SECTION

RIM-TAPE
LAB-SCCB11 (for a pair of front+rear wheels)
6,5 mm
700C (622 x 15C)
See section table and inflation pressures on page 205



COMPLETE FRONT KIT
COMPLETE REAR KIT
KIT-43SCB
KIT-44SCB
KIT-44SCB
KIT-44SCB
14 rear right spokes + 7 rear left spokes + 21 nipples
MINI-KIT
KIT-700SCB
NIPPLES
50-WH-NZO
50 pieces

5-FH-RE114

front + rear

3-FH-RE113

WH-KX9

(HG 8/10)

NOTES

QUICK-RELEASES

5-FH-RE114

3-FH-RE113

QR12-ZOBFR

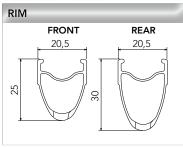
FH-SC015

(Campy 9/11)

ZONDA™ clincher

MEDIUM PROFILE

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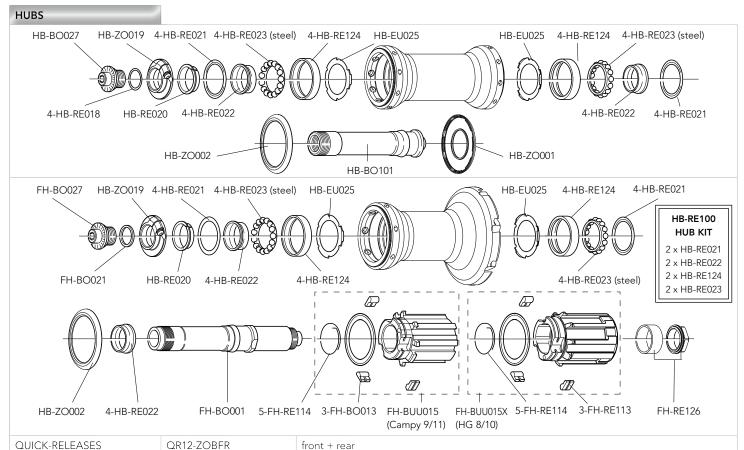


FRONT RIM REAR RIM LABEL KIT VALVE HOLE DIAMETER TYRE SECTION WH-303ZOB (with labels)
WH-304ZOB (with labels)

LAB-ZOCB10 (for a pair of front+rear wheels)

6,5 mm 622 X 15C

See section table and inflation pressures on page 205



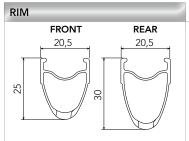
SPOKES	
	Ξ

COMPLETE FRONT KIT	KIT-33ZOB	16 front spokes + 16 nipples
COMPLETE REAR KIT	KIT-34ZOB	14 rear right spokes + 7 rear left spokes + 21 nipples
MINI-KIT	KIT-500ZOB	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	50-WH-NZO	50 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH035	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH070	spoke wrenches

EURUS™ clincher

MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
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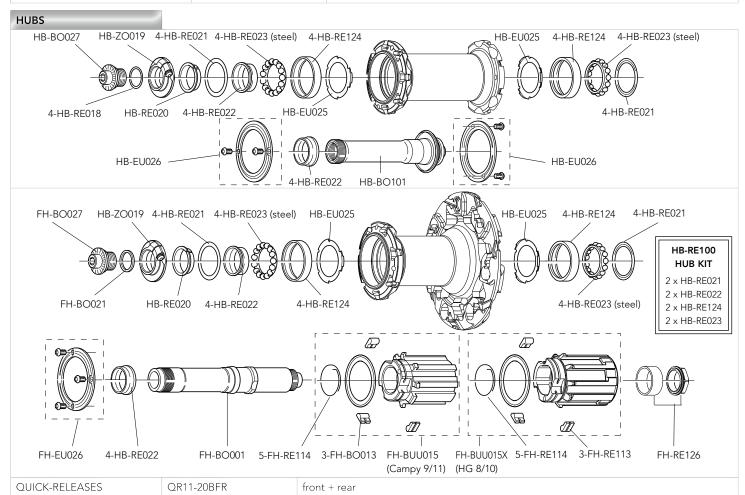


FRONT RIM REAR RIM LABEL KIT VALVE HOLE DIAMETER TYRE SECTION WH-503EUB (with labels) WH-504EUB (with labels)

LAB-EUCB12 (for a pair of front+rear wheels)

622 X 15C

See section table and inflation pressures on page 205



SPOKES

COMPLETE FRONT KIT. COMPLETE REAR KIT. COMPLETE FRONT/REAR LEFT SPOKE COMPLETE REAR RIGHT SPOKE **NIPPLES** SPOKE RING **INSERT NIPPLE** NIPPLE MAGNET SPOKE SPANNER

KIT-13SHB KIT-24SHB WH-105SHB WH-107SHB 10-WH-015SH UT-WH010

UT-WH020

UT-WH050

UT-WH070

16 front/rear left spokes 14 rear right spokes + 7 front/rear left spokes

spoke + nipples spoke + nipples 10 pieces

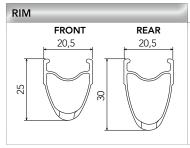
anti-rotation spokes magnet-attractor for nipple

nipple-guide spoke wrenches

SHAMAL™ ULTRA™ clincher

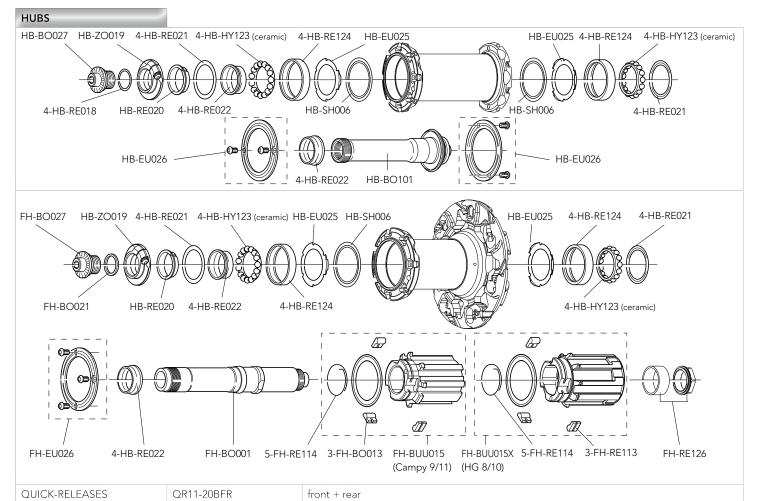
MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
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FRONT RIM REAR RIM LABEL KIT VALVE HOLE DIAMETER TYRE SECTION WH-203SHB (with standard labels) - WH-203SHBDK (with DARK labels) WH-204SHB (with standard labels) - WH-204SHBDK (with DARK labels) LAB-SHCB12 (front+rear) - LAB-SHCB12DK (front+rear DARK) 6,5 mm

622 X 15C See section table and inflation pressures on page 205



COMPLETE FRONT KIT. COMPLETE REAR KIT. COMPLETE FRONT/REAR LEFT SPOKE COMPLETE REAR RIGHT SPOKE NIPPLES SPOKE RING INSERT NIPPLE NIPPLE MAGNET SPOKE SPANNER

SPOKES

KIT-13SHB KIT-24SHB WH-107SHB WH-107SHB 10-WH-015SH UT-WH010 UT-WH020 UT-WH050 UT-WH070

16 front/rear left spokes
14 rear right spokes + 7 front/rear left spokes
spoke + nipples
spoke + nipples
10 pieces
anti-rotation spokes
magnet-attractor for nipple
nipple-guide

spoke wrenches

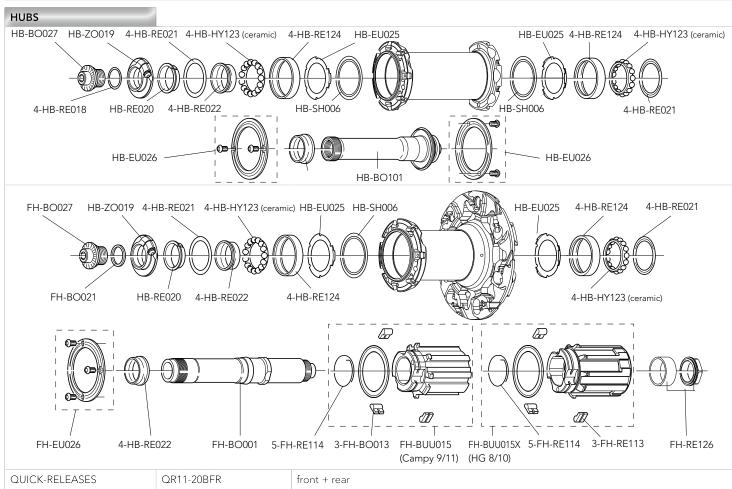
2012 WHEELS TECHNICAL MANUAL

SHAMAL™ ULTRA™ tubular

MEDIUM PROFILE

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SPOKES COMPLETE FRONT KIT. KIT-13SHB 16 front/rear left spokes COMPLETE REAR KIT. KIT-24SHB 14 rear right spokes + 7 front/rear left spokes COMPLETE FRONT/REAR LEFT SPOKE WH-105SHB spoke + nipples COMPLETE REAR RIGHT SPOKE WH-107SHB spoke + nipples **NIPPLES** 10-WH-015SH 10 pieces SPOKE RING UT-WH010 anti-rotation spokes **INSERT NIPPLE** UT-WH020 magnet-attractor for nipple NIPPLE MAGNET UT-WH050 nipple-guide SPOKE SPANNER UT-WH070 spoke wrenches

ZONDA™ 2-Way Fit™

MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
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FRONT REAR
20,5
20,5

FRONT RIM
REAR RIM
LABEL KIT
VALVE HOLE
2-WAY FIT** VALVE
VALVE HOLE BUSHING
DIAMETER
TYRE SECTION

WH-013ZOB (with labels) WH-014ZOB (with labels)

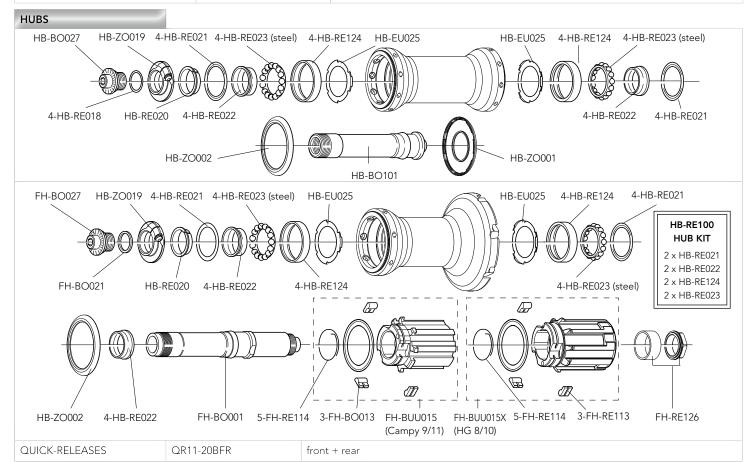
LAB-ZO2B10 (for a pair of front+rear wheels)

6,5 mm WH-SH001

5-WH-SH002 (for valve seat reduction - 5 pieces)

634 mm

See recommended tyre manufacturer inflation pressure



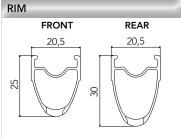
SPOKES COMPLETE FRONT KIT KIT-33ZOB 16 front spokes + 16 nipples 14 rear right spoke + 7 rear left spokes + 21 nipples COMPLETE REAR KIT KIT-34ZOB MINI-KIT KIT-500ZOB 2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples **NIPPLES** 50-WH-NZO 50 pieces SPOKE RING UT-WH010 anti-rotation spokes **INSERT NIPPLE** UT-WH035 magnet-attractor for nipple NIPPLE MAGNET UT-WH050 nipple-guide SPOKE SPANNER UT-WH070 spoke wrenches

EURUS 2-Way Fit™

MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-EU2FRXB WH12-EU2FB WH12-EU2RB	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.500 1.539 643 857 896

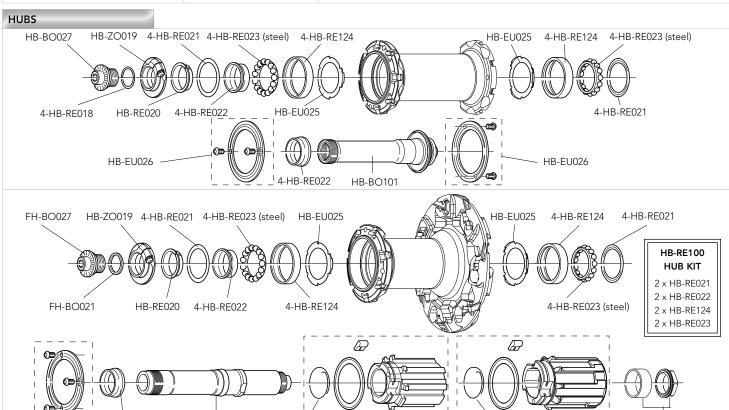
634 mm



FRONT RIM
REAR RIM
LABEL KIT
VALVE HOLE
2-WAY FIT™VALVE
VALVE HOLE BUSHING
DIAMETER
TYRE SECTION

WH-113EUB (with labels)
WH-114EUB (with labels)
LAB-EU2B12 (for a pair of front+rear wheels)
6,5 mm
WH-SH001
5-WH-SH002 (for valve seat reduction - 5 pieces)

See recommended tyre manufacturer inflation pressure



QUICK-RELEASES QR11-20BFR front + rear

5-FH-RE114

FH-BO001

SPOKES		
COMPLETE FRONT KIT.	KIT-13SHB	16 front/rear left spokes
COMPLETE REAR KIT.	KIT-24SHB	14 rear right spokes + 7 front/rear left spokes
COMPLETE FRONT/REAR LEFT SPOKE	WH-105SHB	spoke + nipples
COMPLETE REAR RIGHT SPOKE	WH-107SHB	spoke + nipples
NIPPLES	10-WH-015SH	10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH020	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH070	spoke wrenches

FH-BUU015

(Campy 9/11) (HG 8/10)

FH-BUU015X 5-FH-RE114

3-FH-RE113

FH-RE126

3-FH-BO013

NOTES

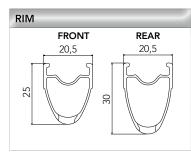
FH-EU026

4-HB-RE022

SHAMAL™ ULTRA™ 2-Way Fit™

MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-SH2FRB WH12-SH2FRXB WH12-SH2FB WH12-SH2RB WH12-SH2RXB DARK LABEL WH12-SH2FRBDK WH12-SH2FRBDK WH12-SH2FRXBDK	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body	1.440 1.479 615 825 864 1.440 1.479 615
	WH12-SH2RBDK WH12-SH2RXBDK	rear HG type FW body	825 864



FRONT RIM
REAR RIM
LABEL KIT
VALVE HOLE
2-WAY FIT**VALVE
VALVE HOLE BUSHING
DIAMETER
TYRE SECTION

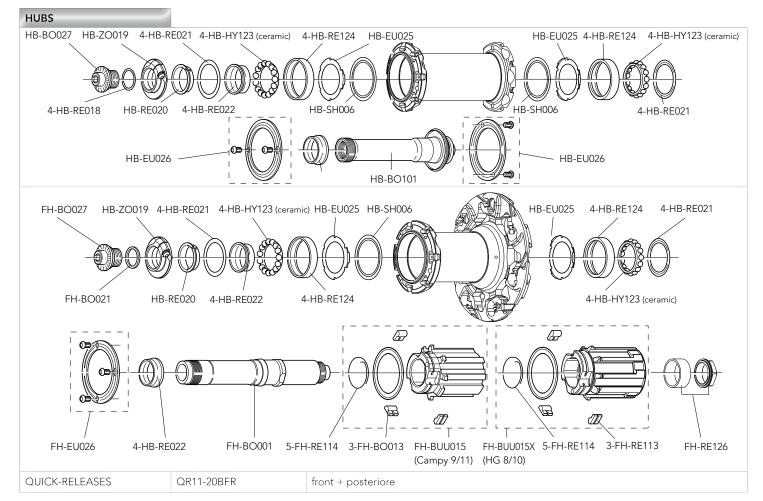
WH-113SHB (with standard labels) - WH-113SHBDK (with DARK labels) WH-114SHB (with standard labels) - WH-114SHBDK (with DARK labels) LAB-SH2B12 (front+rear) - LAB-SH2B12DK (front+rear DARK) 6,5 mm

WH-SH001

5-WH-SH002 (for valve seat reduction - 5 pieces)

634 mm

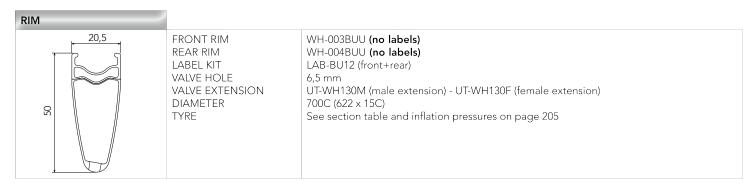
See recommended tyre manufacturer inflation pressure

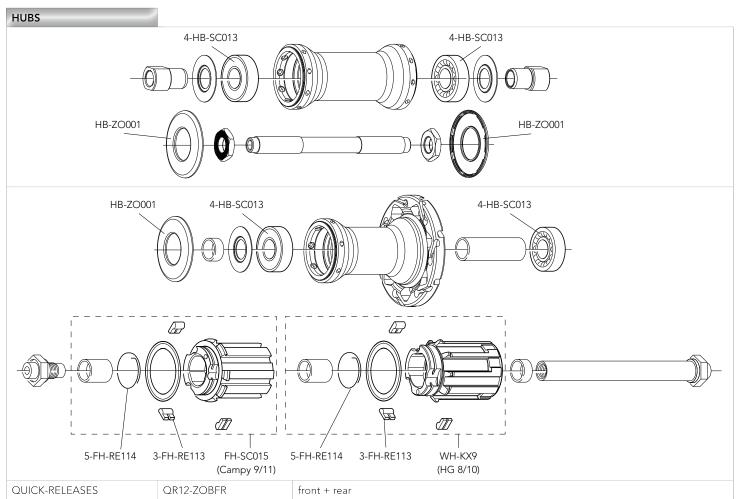


SPOKES COMPLETE FRONT KIT. KIT-13SHB 16 front/rear left spokes 14 rear right spokes + 7 front/rear left spokes COMPLETE REAR KIT. KIT-24SHB COMPLETE FRONT/REAR LEFT SPOKE WH-105SHB spoke + nipples spoke + nipples WH-107SHB COMPLETE REAR RIGHT SPOKE **NIPPLES** 10-WH-015SH 10 pieces SPOKE RING UT-WH010 anti-rotation spokes **INSERT NIPPLE** UT-WH020 magnet-attractor for nipple NIPPLE MAGNET UT-WH050 nipple-guide SPOKE SPANNER UT-WH070 spoke wrenches

BULLET™ clincher (H50 - standard bearings)

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUCFRX WH12-BUCF WH12-BUCR	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.755 1.794 785 970 1.009

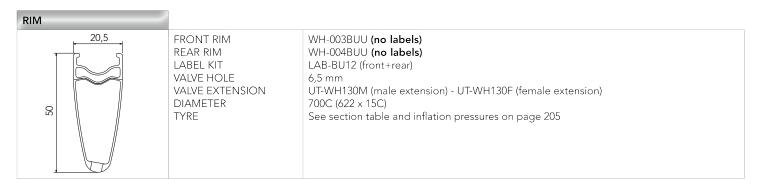


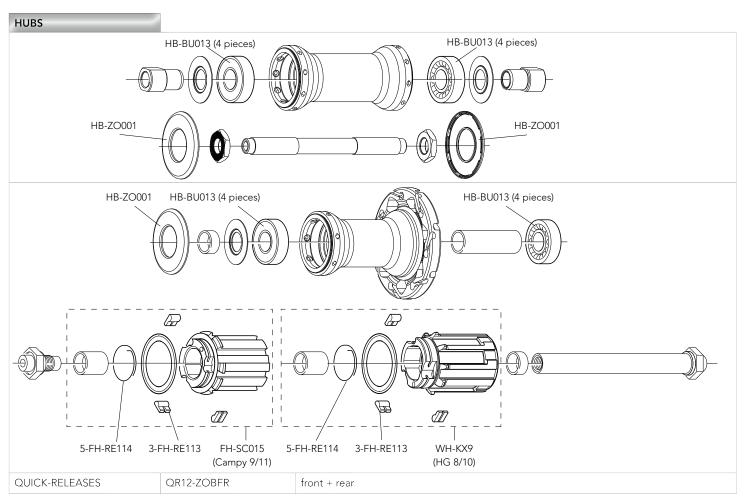


SPOKES	~	
COMPLETE FRONT KIT	KIT-03BU	18 front spokes + 18 nipples
COMPLETE REAR KIT	KIT-04BU	14 right rear spokes + 7 rear left spokes + 21 nipples
MINI-KIT	KIT-500BU	2 front spokes + 2 right rear spokes + 2 rear left spokes + 6 nipples
NIPPLES	WH-015BU	10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

BULLET™ clincher (H50 - USB™ bearings)

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUCFRXU WH12-BUCFU WH12-BUCRU	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.755 1.794 785 970 1.009

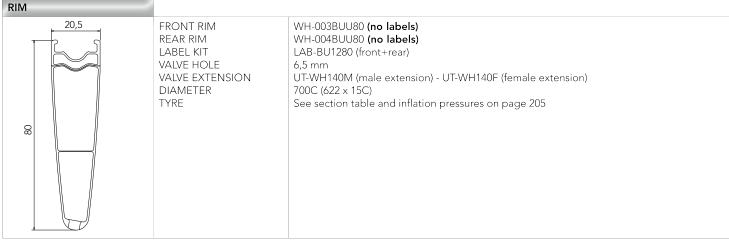


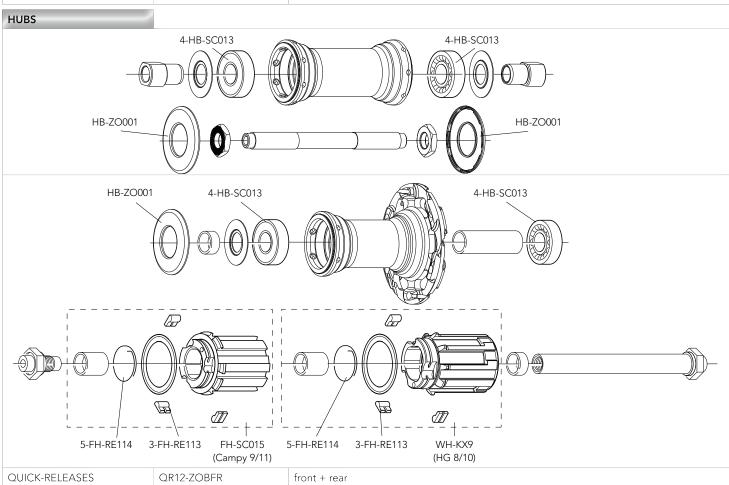


SPOKES		
COMPLETE FRONT KIT	KIT-03BU	18 front spokes + 18 nipples
COMPLETE REAR KIT	KIT-04BU	14 rear right spokes + 7 rear left spokes + 21 nipples
MINI-KIT	KIT-500BU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	WH-015BU	10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

BULLET™ clincher (H80 - standard bearings)

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountainenduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUCFRX80 WH12-BUCF80 WH12-BUCR80 WH12-BUCRX80	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.930 1.969 865 1.065 1.104



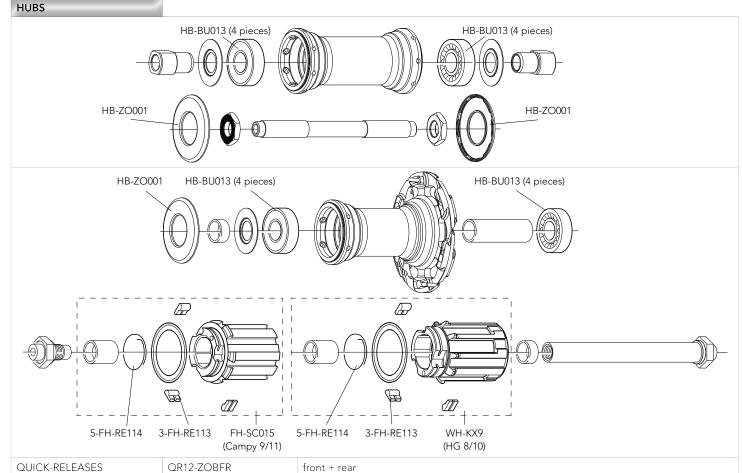


SPOKES		
COMPLETE FRONT KIT	KIT-03BU80	16 front spokes + 16 nipples
COMPLETE REAR KIT	KIT-04BU80	12 rear right spokes + 6 rear left spokes + 18 nipples
MINI-KIT	KIT-500BU80	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	WH-015BU	10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

BULLET™ clincher (H80 - USB™ bearings)

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and		FRONT+REAR Campagnolo FW body	1.930
used only on "racing" or "cyclocross" bikes (if they bear the CX mark),		FRONT+REAR HG type FW body	1.969
and any other use is expressly excluded. Any other use of this pro-	WH12-BUCFU80	front	865
duct (like, for instance, cross country, all mountain-enduro, acrobatic	WH12-BUCRU80	rear Campagnolo FW body	1.065
off-road, downhill, fourcross, freeride, free-style or any other type of	WH12-BUCRXU80	rear HG type FW body	1.104
extreme off-road cycling as defined by UCI) can cause accidents, inju-			
ries and even death and is therefore expressly forbidden			



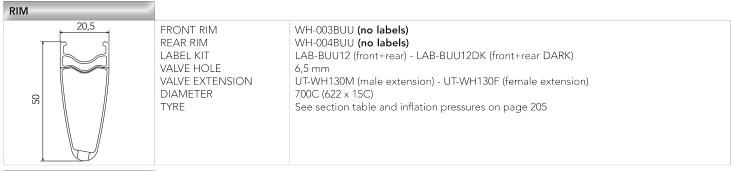


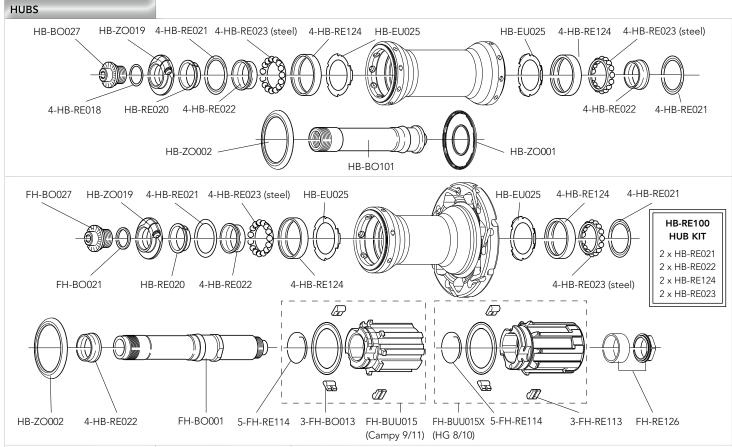
SPOKES	~	
COMPLETE FRONT KIT	KIT-03BU	18 front spokes + 18 nipples
COMPLETE REAR KIT	KIT-04BU	14 rear right spokes + 7 rear left spokes + 21 nipples
MINI-KIT	KIT-500BU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	WH-015BU	10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

BULLET™ ULTRA clincher (H50 - standard bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUUCFRX	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.590 1.629 727 863 902 1.590 1.629 727 863 902





SPOKES		
COMPLETE FRONT KIT	KIT-03BUU	18 front spokes + 18 nipples
COMPLETE REAR KIT	KIT-04BUU	14 rear right spokes + 7 rear left spokes + 21 nipples
MINI-KIT	KIT-500BUU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	WH-015BUU	red - 10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

front + rear

NOTES

QUICK-RELEASES

QR12-BUUBFR

BULLET™ ULTRA clincher (H50 - USB™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUUCFRU WH12-BUUCFU WH12-BUUCRU WH12-BUUCRXU DARK LABEL WH12-BUUCFRUDK WH12-BUUCFRXUDK WH12-BUUCFUDK WH12-BUUCFUDK WH12-BUUCRUDK	FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB	1.590 1.629 727 863 902 1.590 1.629 727 863 902
	WHIZ-BUUCKXUDK	rear HG type FW body - USB	902

20,5

FRONT RIM
REAR RIM
LABEL KIT
VALVE HOLE
VALVE EXTENSION
DIAMETER
TYRE

QR12-BUUBFR

WH-003BUU (no labels) WH-004BUU (no labels)

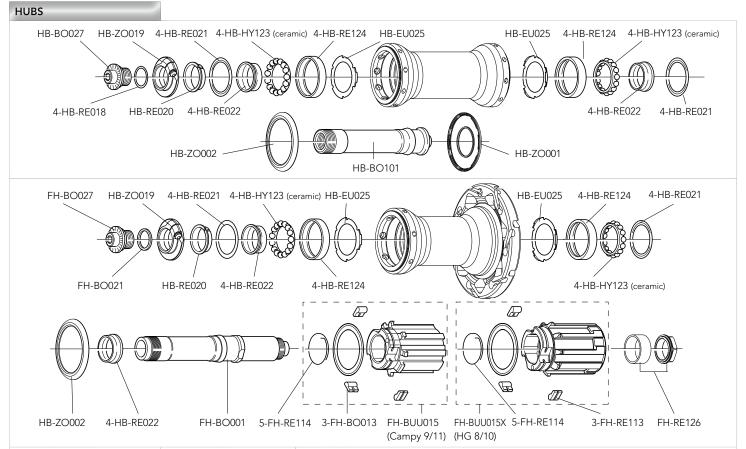
LAB-BUU12 (front+rear) - LAB-BUU12DK (front+rear DARK)

6,5 mm

UT-WH130M (male extension) - UT-WH130F (female extension)

700C (622 x 15C)

See section table and inflation pressures on page 205



SPOKES	-	
COMPLETE FRONT KIT	KIT-03BUU	18 front spokes + 18 nipples
COMPLETE REAR KIT	KIT-04BUU	14 rear right spokes + 7 rear left spokes + 21 nipples
MINI-KIT	KIT-500BUU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	WH-015BUU	red - 10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

front + rear

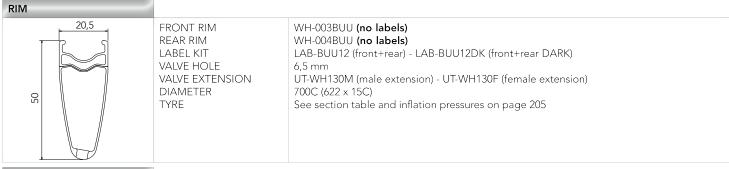
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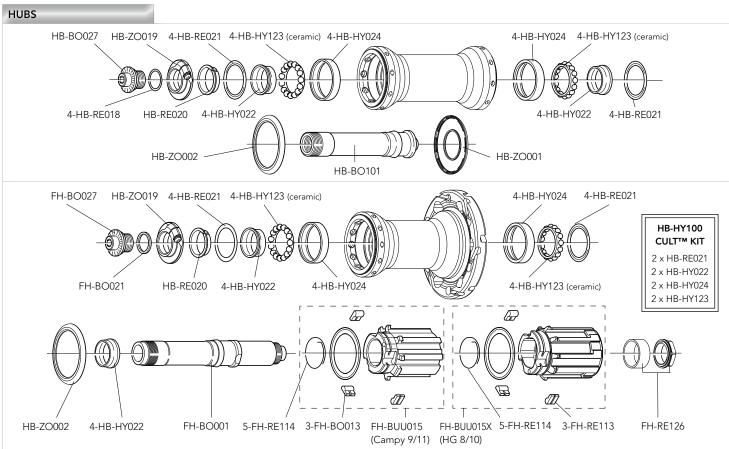
QUICK-RELEASES

BULLET™ ULTRA clincher (H50 - CULT™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,	WH12-BUUCFRXC	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.590 1.629 727 863 902
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUUCFRCDK WH12-BUUCFRXCDK WH12-BUUCFCDK WH12-BUUCRCDK WH12-BUUCRXCDK	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.590 1.629 727 863 902





SPOKES			
COMPLETE FRONT KIT	KIT-03BUU	18 front spokes + 18 nipples	
COMPLETE REAR KIT	KIT-04BUU	14 rear right spokes + 7 rear left spokes + 21 nipples	
MINI-KIT	KIT-500BUU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples	
NIPPLES	WH-015BUU	red - 10 pieces	
SPOKE RING	UT-WH010	anti-rotation spokes	
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple	
NIPPLE MAGNET	UT-WH050	nipple-guide	
SPOKE SPANNER	UT-WH090	spoke wrenches	

front + rear

NOTES

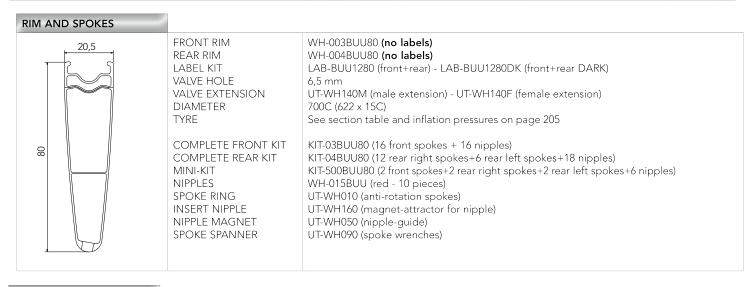
QUICK-RELEASES

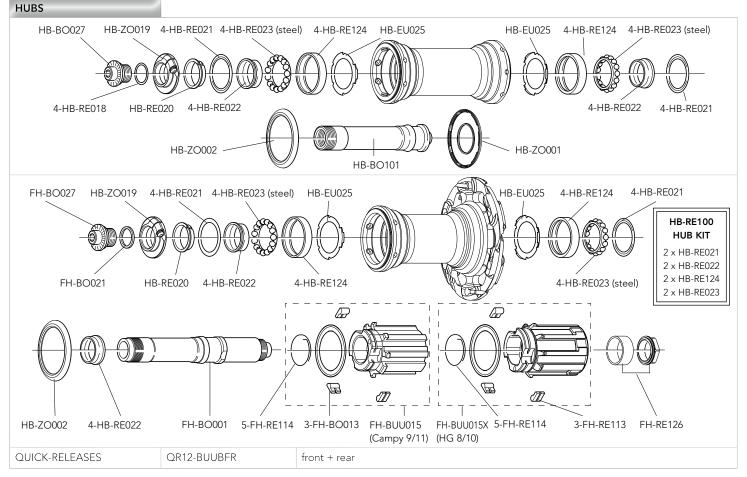
QR12-BUUBFR

BULLET™ ULTRA clincher (H80 - standard bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,	WH12-BUUCF80	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.770 1.809 815 955 994
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUUCFR80DK WH12-BUUCFRX80DK WH12-BUUCF80DK WH12-BUUCR80DK WH12-BUUCR80XDK	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.770 1.809 815 955 994

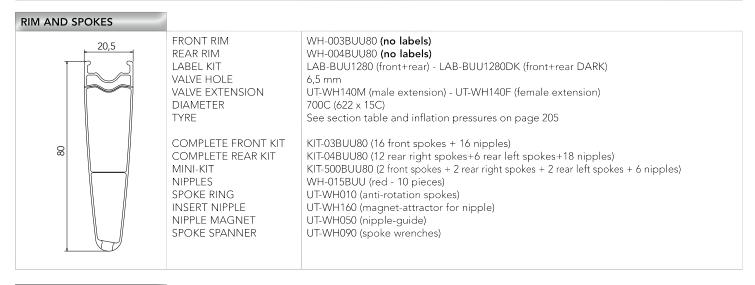


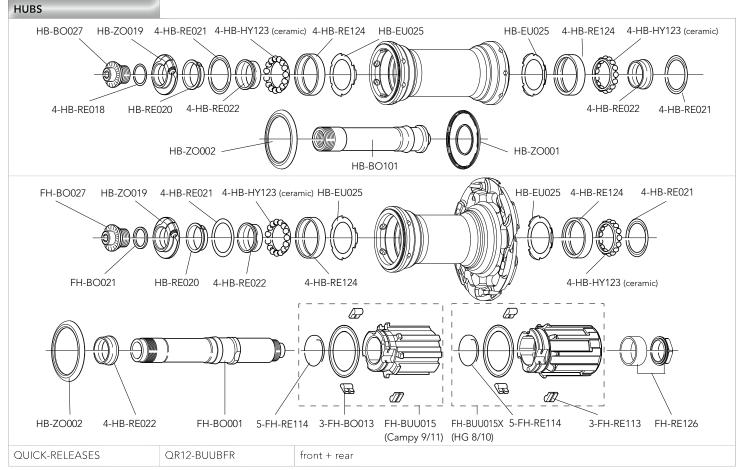


BULLET™ ULTRA clincher (H80 - USB™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,		FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.770 1.809 815 955 994
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUUCFRU80DK WH12-BUUCFRXU80DK WH12-BUUCFU80DK WH12-BUUCRU80DK WH12-BUUCRXU80DK	FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.770 1.809 815 955 994

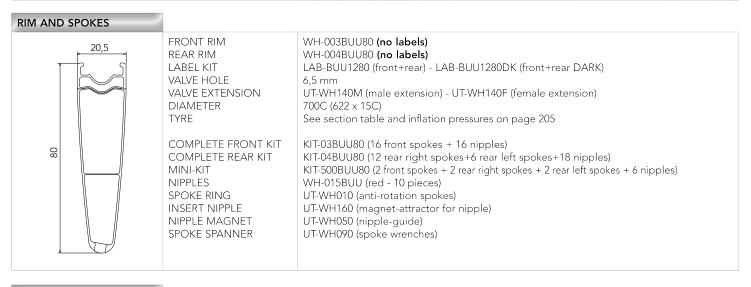


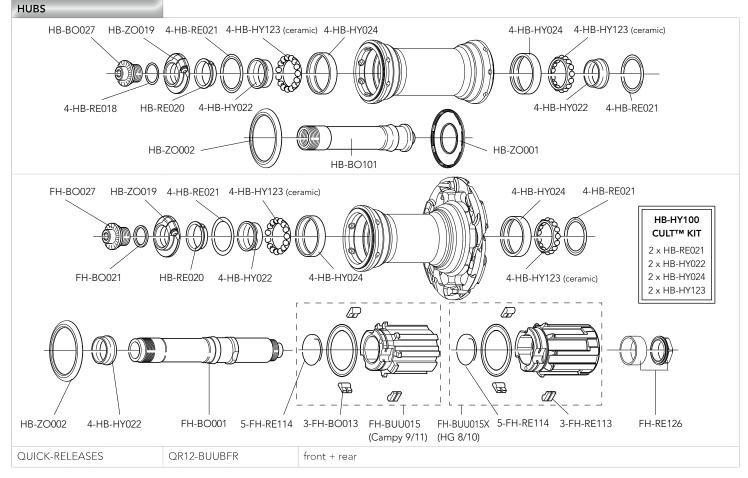


BULLET™ ULTRA clincher (H80 - CULT™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,	WH12-BUUCFC80	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.770 1.809 815 955 994
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUUCFRC80DK WH12-BUUCFRXC80DK WH12-BUUCFC80DK WH12-BUUCRC80DK WH12-BUUCRC80DK	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.770 1.809 815 955 994

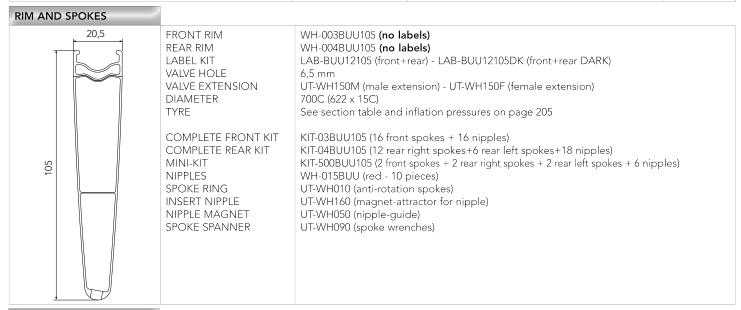


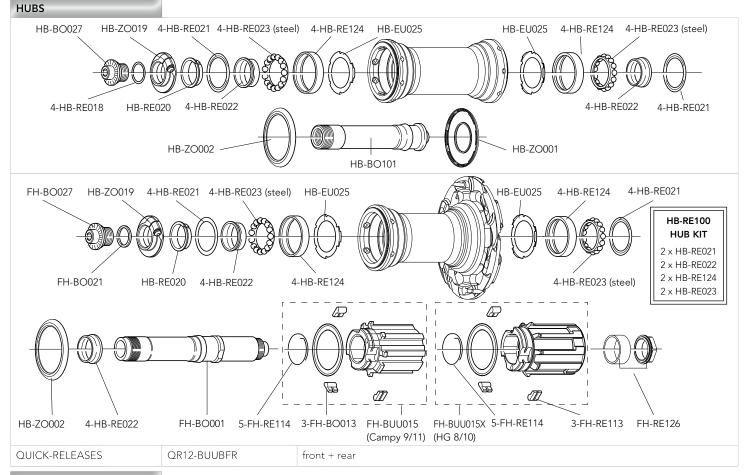


BULLET™ ULTRA clincher (H105 - standard bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUUCFRX105	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.960 1.999 910 1.050 1.089 1.960 1.999 910 1.050 1.089



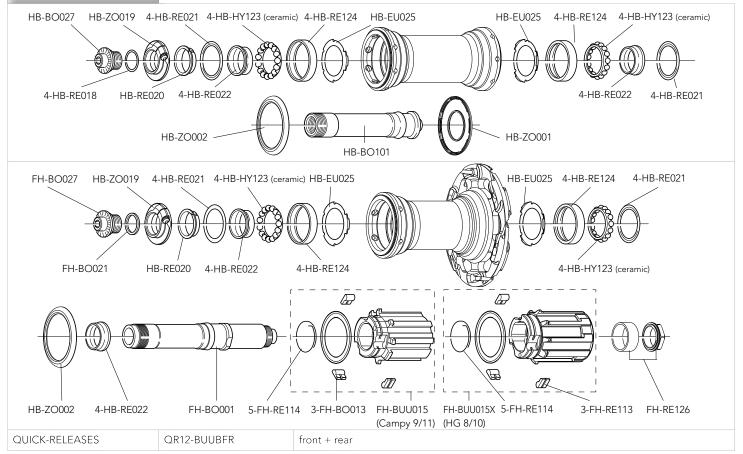


NOTES

BULLET™ ULTRA clincher (H105 - USB™ bearings)

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,		FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.960 1.999 910 1.050 1.089
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUUCFRU105DK WH12-BUUCFRXU105DK WH12-BUUCFU105DK WH12-BUUCRU105DK WH12-BUUCRXU105DK	FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.960 1.999 910 1.050 1.089



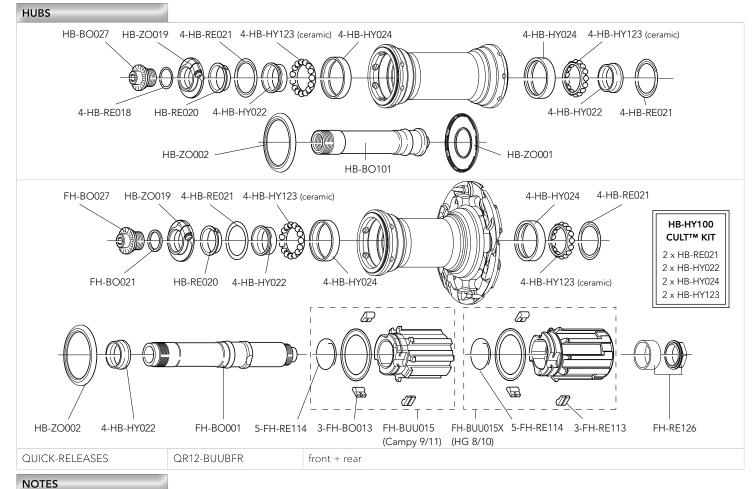


BULLET™ ULTRA clincher (H105 - CULT™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,		FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.960 1.999 910 1.050 1.089
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUUCFRC105DK WH12-BUUCFRXC105DK WH12-BUUCFC105DK WH12-BUUCRC105DK WH12-BUUCRXC105DK	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.960 1.999 910 1.050 1.089

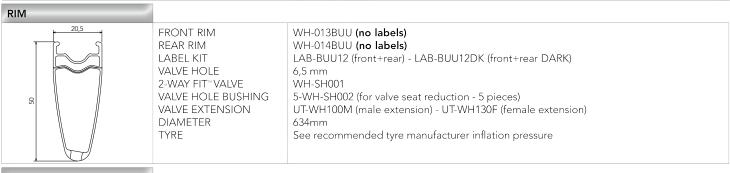
RIM AND SPOKES FRONT RIM WH-003BUU105 (no labels) WH-004BUU105 (no labels) REAR RIM LAB-BUU12105 (front+rear) - LAB-BUU12105DK (front+rear DARK) LABEL KIT VALVE HOLE VALVE EXTENSION UT-WH150M (male extension) - UT-WH150F (female extension) DIAMETER 700C (622 x 15C) See section table and inflation pressures on page 205 **TYRE** COMPLETE FRONT KIT KIT-03BUU105 (16 front spokes + 16 nipples) COMPLETE REAR KIT KIT-04BUU105 (12 rear right spokes+6 rear left spokes+18 nipples) MINI-KIT KIT-500BUU105 (2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples) 105 WH-015BUU (red - 10 pieces) NIPPLES SPOKE RING UT-WH010 (anti-rotation spokes) **INSERT NIPPLE** UT-WH160 (magnet-attractor for nipple) NIPPLE MAGNET UT-WH050 (nipple-guide) SPOKE SPANNER UT-WH090 (spoke wrenches)

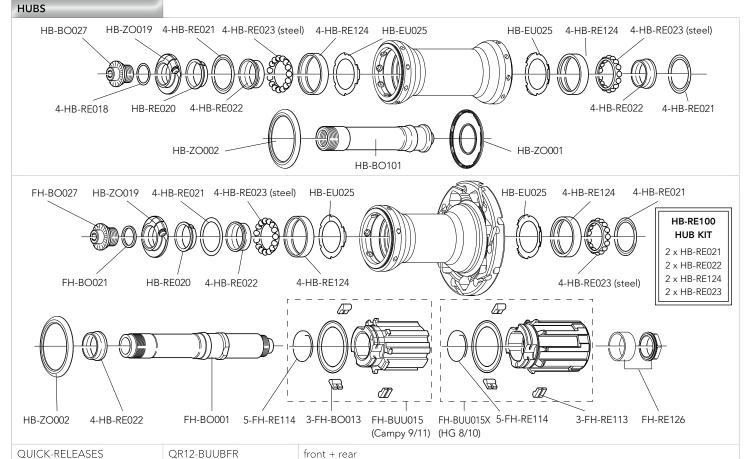


BULLET™ ULTRA 2-Way Fit™ (H50 - standard bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,		FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.590 1.629 727 863 902
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUU2FRDK WH12-BUU2FRXDK WH12-BUU2FDK WH12-BUU2RDK WH12-BUU2RXDK	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.590 1.629 727 863 902



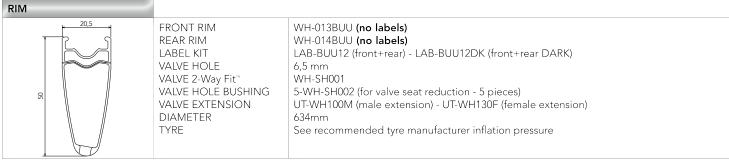


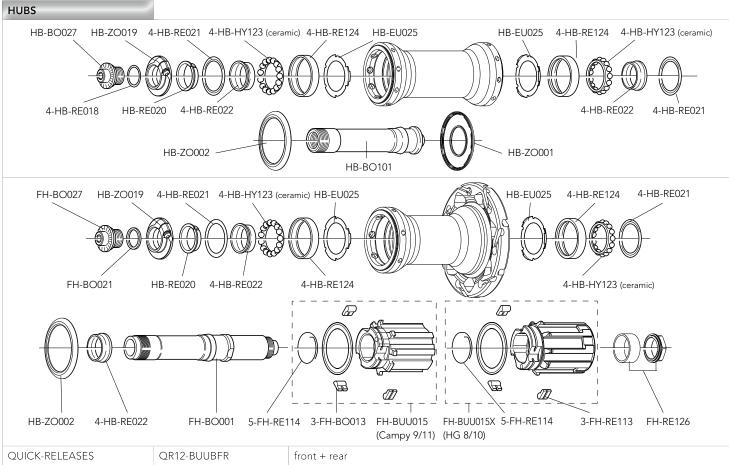
SPOKES		
COMPLETE FRONT KIT	KIT-03BUU	18 front spokes + 18 nipples
COMPLETE REAR KIT	KIT-04BUU	14 rear right spokes + 7 rear left spokes + 21 nipples
MINI-KIT	KIT-500BUU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	WH-015BUU	red - 10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

BULLET™ ULTRA 2-Way Fit™ (H50 - USB™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,	WH12-BUU2FRXU	FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.590 1.629 727 863 902
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUU2FRUDK WH12-BUU2FRXUDK WH12-BUU2FUDK WH12-BUU2RUDK WH12-BUU2RXUDK	FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.590 1.629 727 863 902



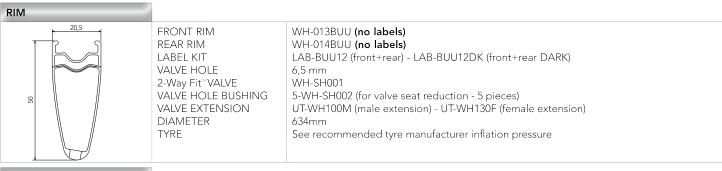


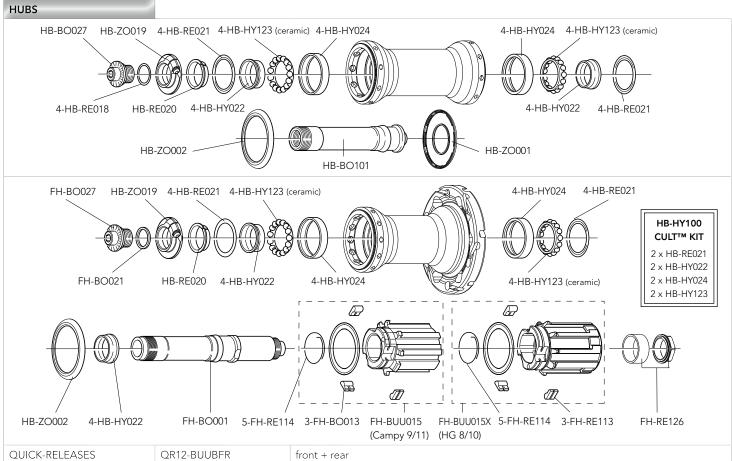
KIT-03BUU	18 front spokes + 18 nipples	
KIT-04BUU	14 rear right spokes + 7 rear left spokes + 21 nipples	
KIT-500BUU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples	
WH-015BUU	red - 10 pieces	
UT-WH010	anti-rotation spokes	
UT-WH160	magnet-attractor for nipple	
UT-WH050	nipple-guide	
UT-WH090	spoke wrenches	
	KIT-04BUU KIT-500BUU WH-015BUU UT-WH010 UT-WH160 UT-WH050	KIT-04BUU KIT-500BUU KIT-500BUU WH-015BUU UT-WH010 UT-WH160 UT-WH050 14 rear right spokes + 7 rear left spokes + 21 nipples 2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples red - 10 pieces anti-rotation spokes ut-wh160 ut-wh160 ut-wh160 ut-wh160 nipple-guide

BULLET™ ULTRA 2-Way Fit™ (H50 - CULT™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,	WH12-BUU2FC	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.590 1.629 727 863 902
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUU2FRCDK WH12-BUU2FRXCDK WH12-BUU2FCDK WH12-BUU2RCDK WH12-BUU2RXCDK	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.590 1.629 727 863 902



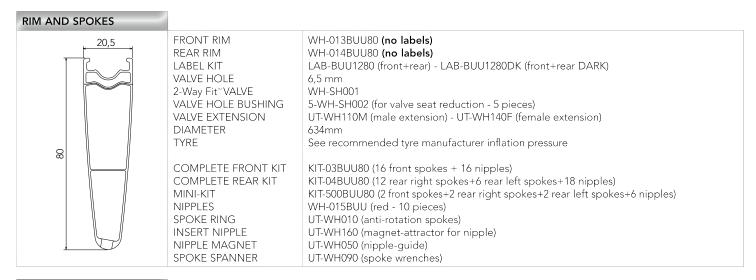


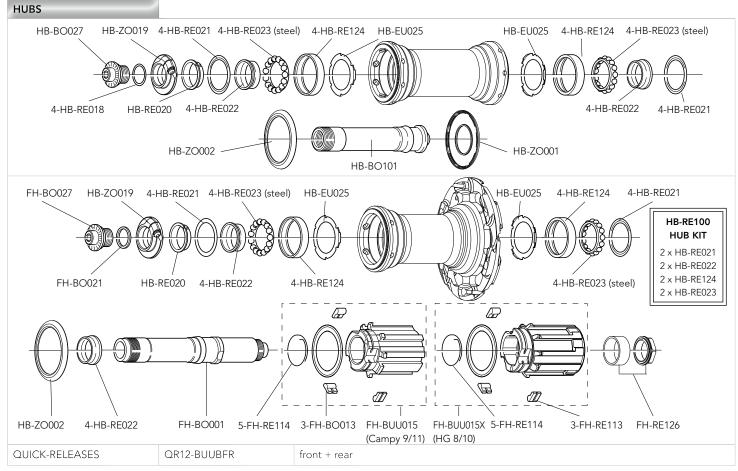
SPOKES		
COMPLETE FRONT KIT	KIT-03BUU	18 front spokes + 18 nipples
COMPLETE REAR KIT	KIT-04BUU	14 rear right spokes + 7 rear left spokes + 21 nipples
MINI-KIT	KIT-500BUU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples
NIPPLES	WH-015BUU	red - 10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

BULLET™ ULTRA 2-Way Fit™ (H80 - standard bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,	WH12-BUU2FRX80 WH12-BUU2F80 WH12-BUU2R80 WH12-BUU2RX80	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.770 1.809 815 955 994
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUU2FR80DK WH12-BUU2FRX80DK WH12-BUU2F80DK WH12-BUU2R80DK WH12-BUU2R80XDK	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.770 1.809 815 955 994



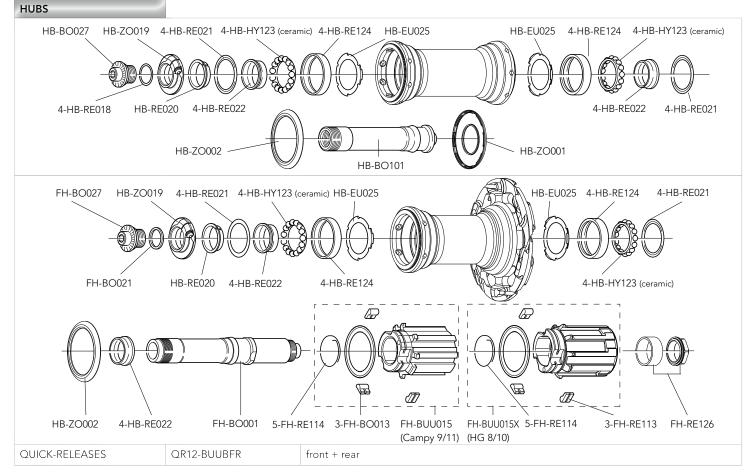


BULLET™ ULTRA 2-Way Fit™ (H80 - USB™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,	WH12-BUU2FRXU80	FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.770 1.809 815 955 994
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUU2FRU80DK WH12-BUU2FRXU80DK WH12-BUU2FU80DK WH12-BUU2RU80DK WH12-BUU2RXU80DK	FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.770 1.809 815 955 994



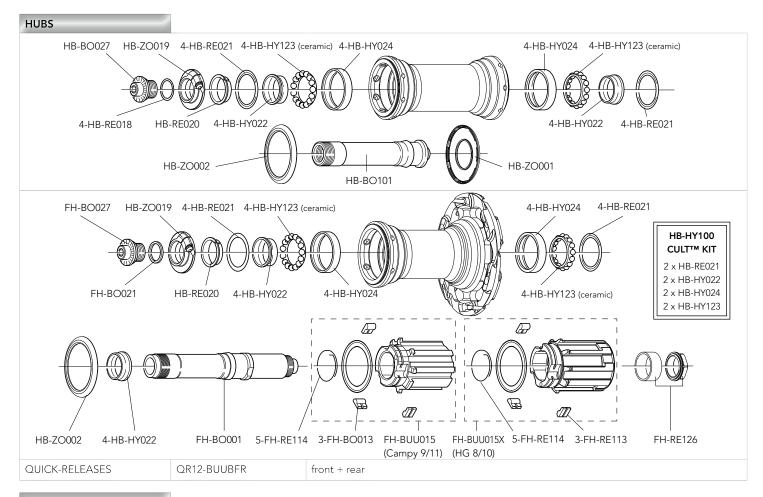


BULLET™ ULTRA 2-Way Fit™ (H80 - CULT™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUU2FRXC80	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.770 1.809 815 955 994
	DARK LABEL WH12-BUU2FRC80DK WH12-BUU2FRXC80DK WH12-BUU2FC80DK WH12-BUU2RC80DK WH12-BUU2RC80DK	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.770 1.809 815 955 994

RIM AND SPOKES	~	
20,5 FRONT RI REAR RIM LABEL KIT VALVE HO 2-Way Fit* VALVE EX DIAMETER TYRE	FRONT RIM REAR RIM LABEL KIT VALVE HOLE 2-Way Fit*VALVE VALVE HOLE BUSHING VALVE EXTENSION DIAMETER TYRE	WH-013BUU80 (no labels) WH-014BUU80 (no labels) LAB-BUU1280 (front+rear) - LAB-BUU1280DK (front+rear DARK) 6,5 mm WH-SH001 5-WH-SH002 (for valve seat reduction - 5 pieces) UT-WH110M (male extension) - UT-WH140F (female extension) 634mm See recommended tyre manufacturer inflation pressure
	COMPLETE FRONT KIT COMPLETE REAR KIT MINI-KIT NIPPLES SPOKE RING INSERT NIPPLE NIPPLE MAGNET SPOKE SPANNER	KIT-03BUU80 (16 front spokes + 16 nipples) KIT-04BUU80 (12 rear right spokes+6 rear left spokes+18 nipples) KIT-500BUU80 (2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples) WH-015BUU (red - 10 pieces) UT-WH010 (anti-rotation spokes) UT-WH160 (magnet-attractor for nipple) UT-WH050 (nipple-guide) UT-WH090 (spoke wrenches)

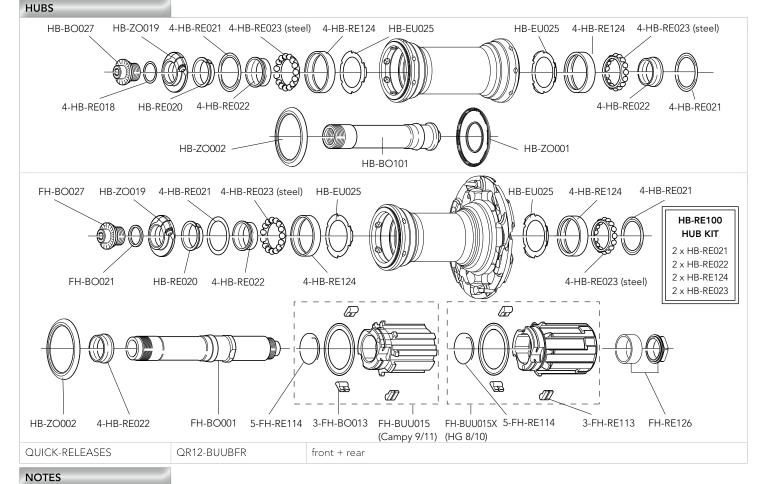


BULLET™ ULTRA 2-Way Fit™ (H105 - standard bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUU2FRX105	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.960 1.999 910 1.050 1.089 1.960 1.999 910 1.050 1.089

RIM AND SPOKES FRONT RIM WH-013BUU105 (no labels) 20,5 REAR RIM WH-014BUU105 (no labels) LAB-BUU12105 (front+rear) - LAB-BUU12105DK (front+rear DARK) LABEL KIT VALVE HOLE 6.5 mm 2-Way Fit™VALVE WH-SH001 VALVÉ HOLE BUSHING 5-WH-SH002 (for valve seat reduction - 5 pieces) UT-WH120M (male extension) - UT-WH150F (female extension) VALVE EXTENSION DIAMETER **TYRF** See recommended tyre manufacturer inflation pressure COMPLETE FRONT KIT KIT-03BUU105 (16 front spokes + 16 nipples) 105 COMPLETE REAR KIT KIT-04BUU105 (12 rear right spokes+6 rear left spokes+18 nipples) MINI-KIT KIT-500BUU105 (2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples) NIPPLES WH-015BUU (red - 10 pieces) SPOKE RING UT-WH010 (anti-rotation spokes) **INSERT NIPPLE** UT-WH160 (magnet-attractor for nipple) NIPPLE MAGNET UT-WH050 (nipple-guide) UT-WH090 (spoke wrenches) SPOKE SPANNER

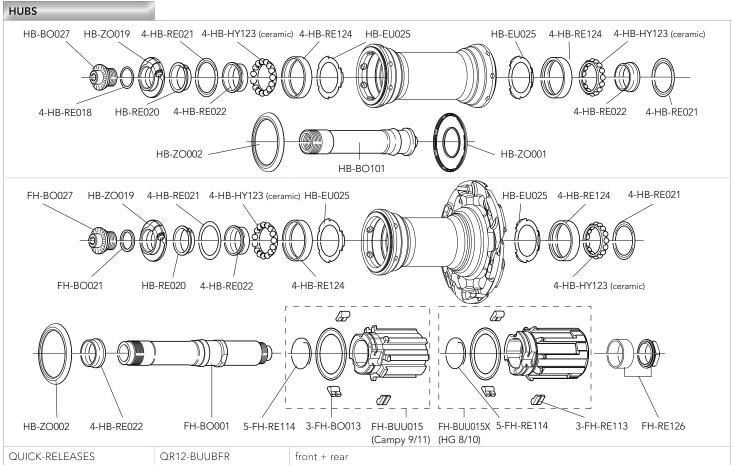


BULLET™ ULTRA 2-Way Fit™ (H105 - USB™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUU2FRXU105	FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB FRONT+REAR Campagnolo FW body - USB FRONT+REAR HG type FW body - USB front - USB rear Campagnolo FW body - USB rear HG type FW body - USB	1.960 1.999 910 1.050 1.089 1.960 1.999 910 1.050 1.089

RIM AND SPOKES FRONT RIM WH-013BUU105 (no labels) 20,5 WH-014BUU105 (no labels) REAR RIM LABEL KIT LAB-BUU12105 (front+rear) - LAB-BUU12105DK (front+rear DARK) VALVE HOLE 6.5 mm WH-SH001 2-Way Fit™VALVE VALVÉ HOLE BUSHING 5-WH-SH002 (for valve seat reduction - 5 pieces) VALVE EXTENSION UT-WH120M (male extension) - UT-WH150F (female extension) DIAMETER **TYRF** See recommended tyre manufacturer inflation pressure COMPLETE FRONT KIT KIT-03BUU105 (16 front spokes + 16 nipples) 105 COMPLETE REAR KIT KIT-04BUU105 (12 rear right spokes+6 rear left spokes+18 nipples) MINI-KIT KIT-500BUU105 (2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples) NIPPLES WH-015BUU (red - 10 pieces) SPOKE RING UT-WH010 (anti-rotation spokes) **INSERT NIPPLE** UT-WH160 (magnet-attractor for nipple) NIPPLE MAGNET UT-WH050 (nipple-guide) UT-WH090 (spoke wrenches) SPOKE SPANNER

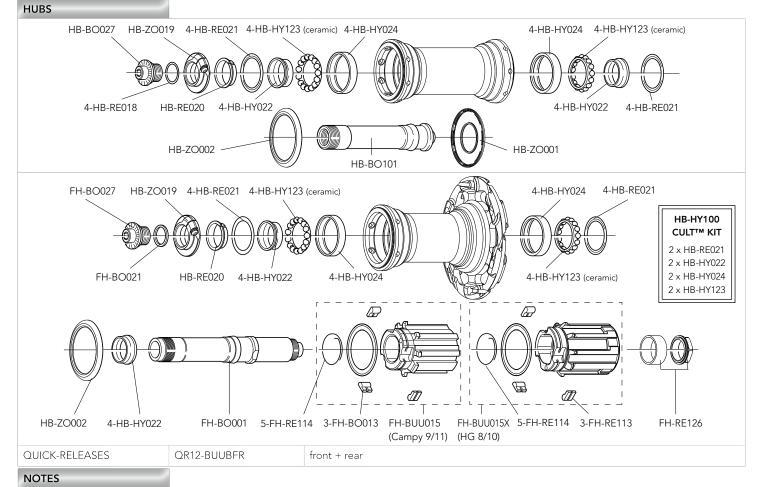


BULLET™ ULTRA 2-Way Fit™ (H105 - CULT™ bearings)

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road,		FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.960 1.999 910 1.050 1.089
downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BUU2FRC105DK WH12-BUU2FRXC105DK WH12-BUU2FC105DK WH12-BUU2RC105DK WH12-BUU2RXC105DK	FRONT+REAR Campagnolo FW body - CULT FRONT+REAR HG type FW body - CULT front - CULT rear Campagnolo FW body - CULT rear HG type FW body - CULT	1.960 1.999 910 1.050 1.089

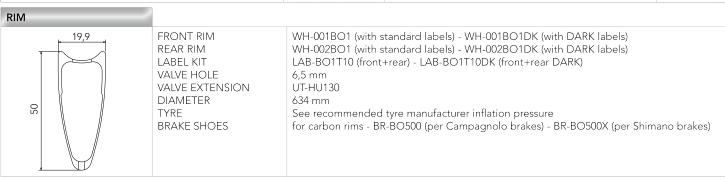
RIM AND SPOKES FRONT RIM WH-013BUU105 (no labels) 20,5 **REAR RIM** WH-014BUU105 (no labels) LAB-BUU12105 (front+rear) - LAB-BUU12105DK (front+rear DARK) LABEL KIT VALVE HOLE 6.5 mm 2-Way Fit™VALVE WH-SH001 VALVÉ HOLE BUSHING 5-WH-SH002 (for valve seat reduction - 5 pieces) VALVE EXTENSION UT-WH120M (male extension) - UT-WH150F (female extension) DIAMETER **TYRE** See recommended tyre manufacturer inflation pressure COMPLETE FRONT KIT KIT-03BUU105 (16 front spokes + 16 nipples) 105 COMPLETE REAR KIT KIT-04BUU105 (12 rear right spokes+6 rear left spokes+18 nipples) MINI-KIT KIT-500BUU105 (2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples) NIPPLES WH-015BUU (red - 10 pieces) SPOKE RING UT-WH010 (anti-rotation spokes) **INSERT NIPPLE** UT-WH160 (magnet-attractor for nipple) NIPPLE MAGNET UT-WH050 (nipple-guide) UT-WH090 (spoke wrenches) SPOKE SPANNER

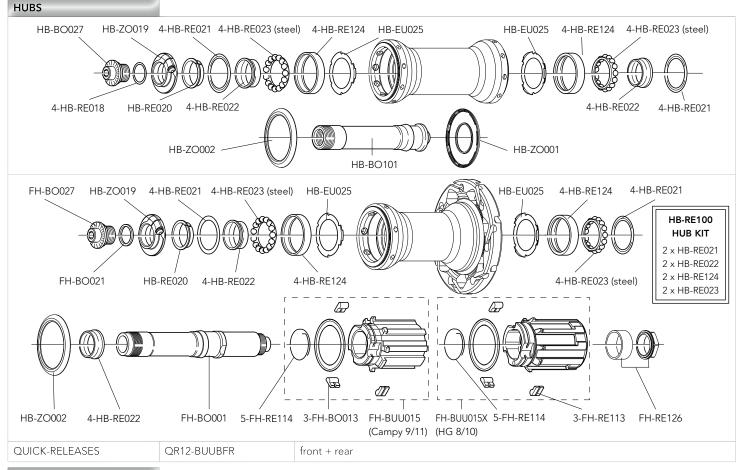


BORA™ ONE tubular

LOW PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance,	WH10-BOTFRX1	FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X	1.350 1.389 590 590
cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type	WH10-BOTR1 WH10-BOTRX1	rear Campagnolo FW body+brake shoes BR-BO500 rear HG type FW body+brake shoes BR-BO500X	760 799
of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BOTFR1DK WH12-BOTFR1DK WH12-BOTF1DK WH12-BOTFX1DK WH12-BOTR1DK WH12-BOTRX1DK	FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X rear Campagnolo FW body+brake shoes BR-BO500X rear HG type FW body+brake shoes BR-BO500X	1.350 1.389 590 590 760 799





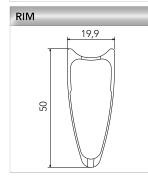
SPOKES		
COMPLETE FRONT KIT	KIT-01BO1	18 front spokes + 18 nuts + 18 nut supporting plates
COMPLETE REAR KIT	KIT-02BO1	14 rear right spokes + 7 rear left spokes + 21 nuts + 21 nut supporting plates
MINI-KIT	KIT-100BO1	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nuts + 6 nut supporting plates
NUTS	10-WH-010BO	10 pieces
NUT SUPPORTING PLATES	10-WH-011BO	10 pieces

! WARNING!

BORA™ ULTRA™ TWO tubular

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type	WH9-BOTFRX WH9-BOTF	FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X rear Campagnolo FW body+brake shoes BR-BO500 rear HG type FW body+brake shoes BR-BO500X	1.310 1.344 565 565 745 779
of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden		FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X rear Campagnolo FW body+brake shoes BR-BO500X rear HG type FW body+brake shoes BR-BO500X	1.310 1.344 565 565 745 779



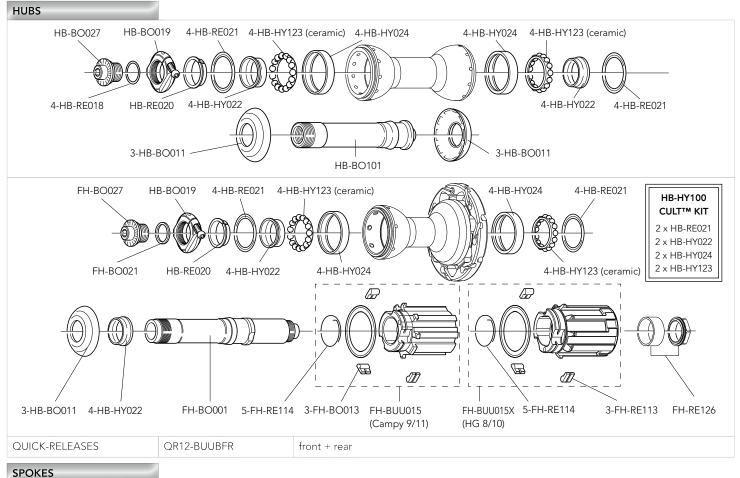
FRONT RIM REAR RIM LABEL KIT VALVE HOLE VALVE EXTENSION DIAMETER **TYRE BRAKE SHOES**

WH-601BO (with standard labels) - WH-101BODK (with DARK labels) WH-502BO (with standard labels) - WH-102BODK (with DARK labels) LAB-BOT9 (front+rear) - LAB-BOT12DK (front+rear DARK) 6,5 mm

UT-HU130 634 mm

See recommended tyre manufacturer inflation pressure

for carbon rims - BR-BO500 (per Campagnolo brakes) - BR-BO500X (per Shimano brakes)



COMPLETE FRONT KIT COMPLETE REAR KIT MINI-KIT NUT SUPPORTING PLATES

KIT-31BO KIT-42BO KIT-400BO 10-WH-010BO 10-WH-011BO

18 front spokes + 18 nuts + 18 nut supporting plates

14 rear right spokes + 7 rear left spokes + 21 nuts + 21 nut supporting plates

2 front spokes. + 2 rear right spokes + 2 rear left spokes + 6 nuts + 6 nut supporting plates

10 pieces 10 pieces

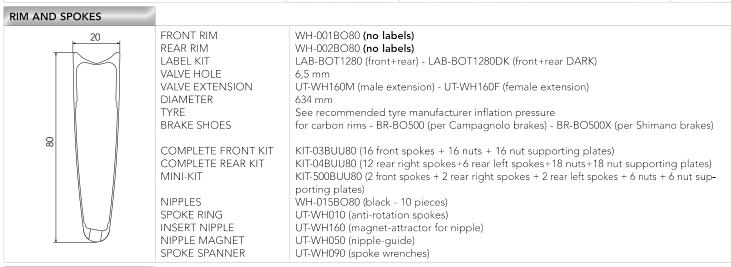
WARNING!

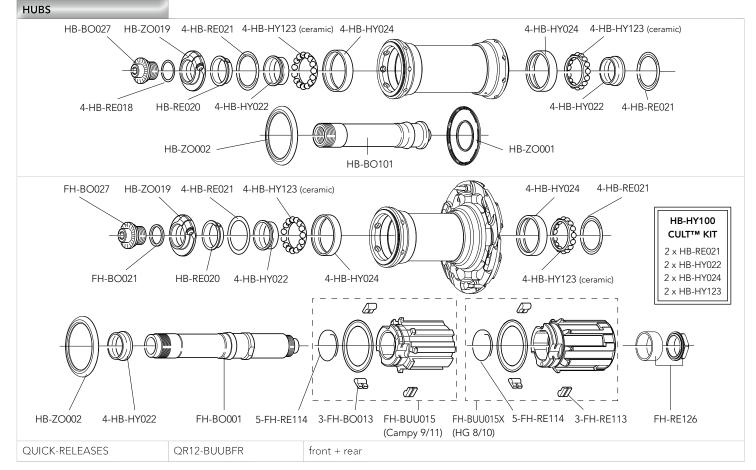
Because of the high temperatures reached when breaking, we recommend you use only glue for tubular tires specifically for carbon fibre rims.

BORA™ ULTRA™ 80 tubular

HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type		FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X rear Campagnolo FW body+brake shoes BR-BO500X rear HG type FW body+brake shoes BR-BO500X	1.540 1.579 715 715 825 864
of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	DARK LABEL WH12-BOTFR80DK WH12-BOTFR80DK WH12-BOTF80DK WH12-BOTFX80DK WH12-BOTFX80DK WH12-BOTR80DK WH12-BOTRX80DK	FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X rear Campagnolo FW body+brake shoes BR-BO500X rear HG type FW body+brake shoes BR-BO500X	1.540 1.579 715 715 825 864





/ WARNING!

Because of the high temperatures reached when breaking, we recommend you use only glue for tubular tires specifically for carbon fibre rims.

GHIBLI™ ULTRA™ tubular

HIGH PROFILE

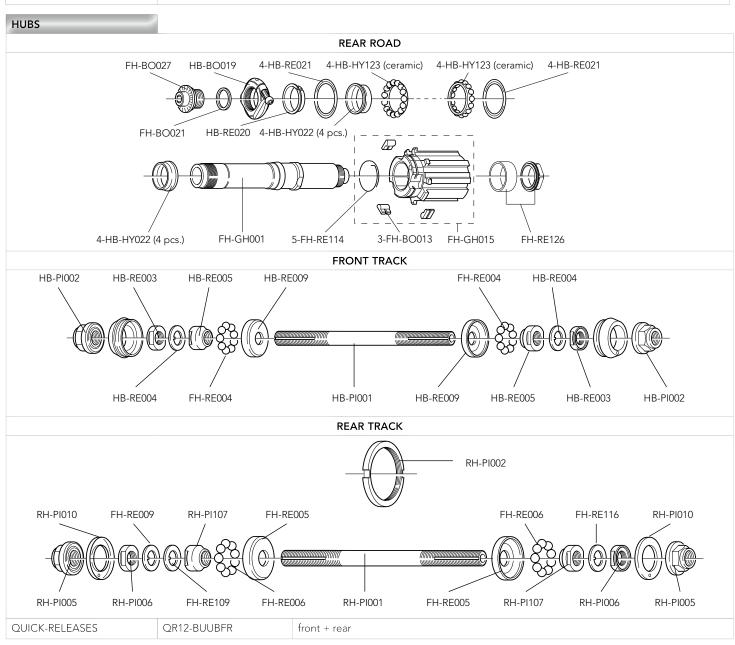
INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH9-GHPF28 WH9-GHPR28	rear road front track 28" rear track 28"	1.010 955 995

RIM

disc profile
tensile-structure in aramidic fibre
Braking surface in aluminium

TYRE

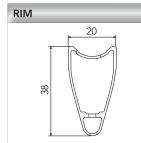
See recommended tyre manufacturer inflation pressure



PISTA™ tubular

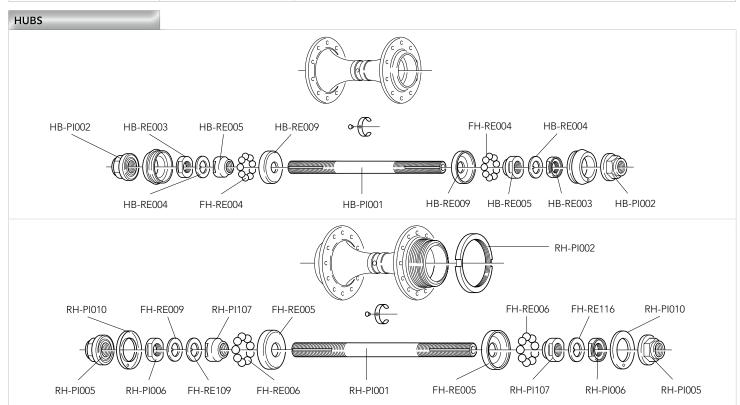
HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden		front rear	995 1.040



FRONT RIM
REAR RIM
LABEL KIT
VALVE HOLE
VALVE EXTENSION
DIAMETER
TYRE SECTION

WH-001PI (with labels)
WH-002PI (with labels)
LAB-PIT07 (for a pair of front+rear wheels)
6,5 mm
UT-HU100
634 mm
See recommended tyre manufacturer inflation pressure

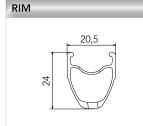


SPOKES COMPLETE FRONT KIT KIT-01PI 20 front spokes + 20 nuts + 20 nut supporting plates 24 rear spokes + 24 nuts + 24 nut supporting plates COMPLETE REAR KIT KIT-02PI MINI-KIT KIT-100PI 2 front spokes + rear spokes + 6 nuts + 6 nut supporting plates 10 pieces NUTS 10-WH-010BO 10-WH-011EU **NUT SUPPORTING PLATES** 10 pieces

KHAMSIN™ CX clincher

CYCLOCROSS - MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-KHXCFRXB WH11-KHXCFB WH11-KHXCRB	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.873 1.912 828 1.045 1.084



RIM-TAPE LABEL KIT VALVE HOLE DIAMETER TYRE SECTION 2-WH-RT01 (18 mm - 2 pieces)

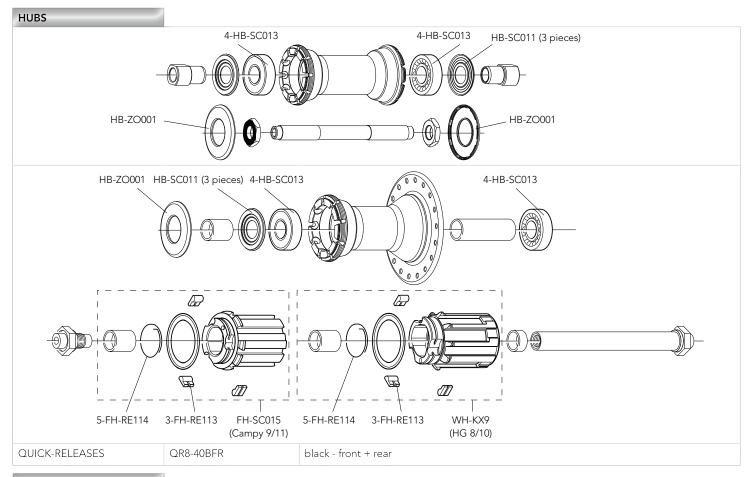
LAB-KHXCB11 (for a pair of front+rear wheels)

6,5 mm

700C (622 x 15C)

See section table and inflation pressures on page 205*

* These wheels are designed to mount cyclo-cross up to 35 mm tyres. We highly recommend complying with maximum pressures indicated on cyclo-cross tyres. Do no use 29" MTB tyres.



SPOKES

COMPLETE FRONT KIT	Ē
COMPLETE REAR KIT	
MINI-KIT	
NIPLES	

KIT-23KHB KIT-24KHB KIT-300KHB 50-WH-NZO

24 front spokes + 24 nipples

18 rear right spokes + 9 rear left spokes + 27 nipples

2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nipples

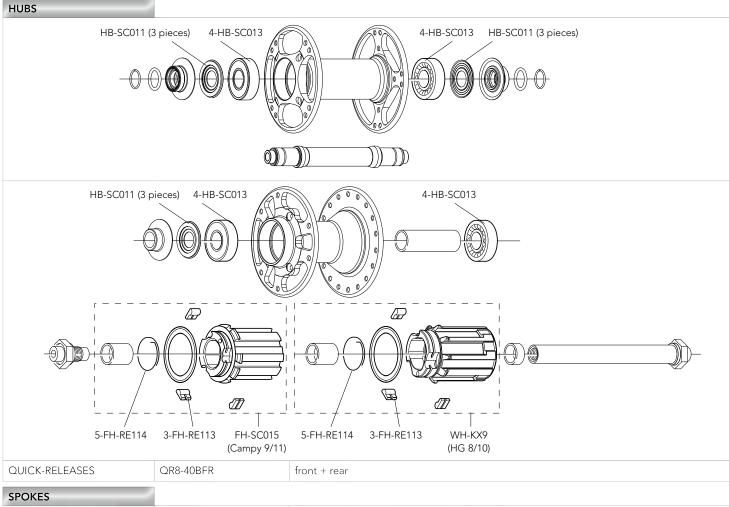
50 pieces

VENTO™ REACTION™ CX clincher

CYCLOCROSS - MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-VEXCFRXB WH11-VEXCFB WH11-VEXCRB	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.827 1.866 825 1.002 1.041

RIM-TAPE LABEL KIT VALVE HOLE DIAMETER TYRE SECTION RIM-TAPE LABURATE 2-WH-RT01 (18 mm - 2 pieces) LAB-VEXCB11 (for a pair of front+rear wheels) 6,5 mm 700C (622 x 15C) See section table and inflation pressures on page 205* * These wheels are designed to mount cyclo-cross up to 35 mm tyres. We highly recommend complying with maximum pressures indicated on cyclo-cross tyres. Do no use 29" MTB tyres.

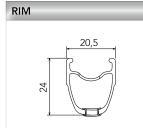


SPOKES		
COMPLETE FRONT KIT	KIT-23VEB	23 front spokes + 1 special spoke + 24 nipples
COMPLETE REAR KIT	KIT-34VEB	18 rear right spokes + 8 rear left spokes + 1 rear left special spoke + 27 nipples
MINI-KIT	KIT-700VEB	3 front spokes + 5 rear spokes + 7 nipples
NIPLES	50-WH-NZO	50 pieces

SCIROCCO™ CX clincher

CYCLOCROSS - MEDIUM PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-SCXCFRXB WH11-SCXCFB WH11-SCXCRB WH12-SCXCRXB	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.795 1.834 775 1.020 1.059



RIM-TAPE LABEL KIT VALVE HOLE DIAMETER TYRE SECTION 2-WH-RT01 (18 mm - 2 pieces)

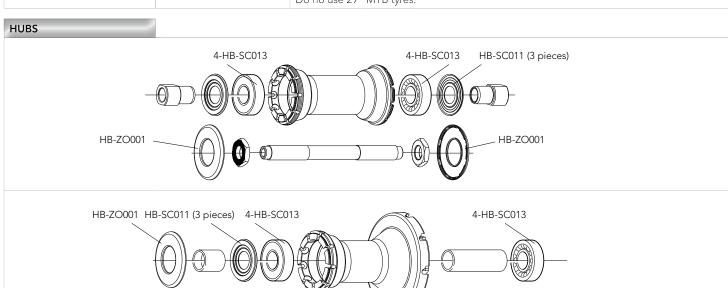
LAB-SCXCB11 (for a pair of front+rear wheels)

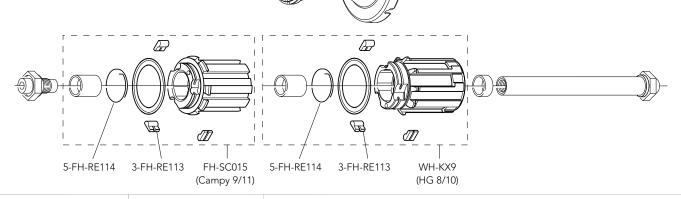
6,5 mm

700C (622 x 15C)

See section table and inflation pressures on page 205*

* These wheels are designed to mount cyclo-cross up to 35 mm tyres. We highly recommend complying with maximum pressures indicated on cyclo-cross tyres. Do no use 29" MTB tyres.





QUICK-RELEASES

QR12-ZOBFR

front + rear

SPOKES

COMPLETE FRONT KIT COMPLETE REAR KIT MINI-KIT NIPLES KIT-43SCB KIT-44SCB KIT-700SCB 50-WH-NZO

16 front spokes + 16 nipples

14 rear right spokes + 7 rear left spokes + 21 nipples

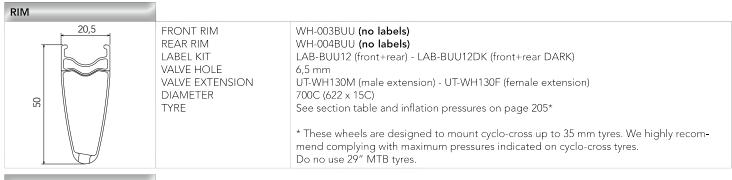
2 front spokes + 2 rear right spokes + 2 rear leeft spokes + 6 nipples

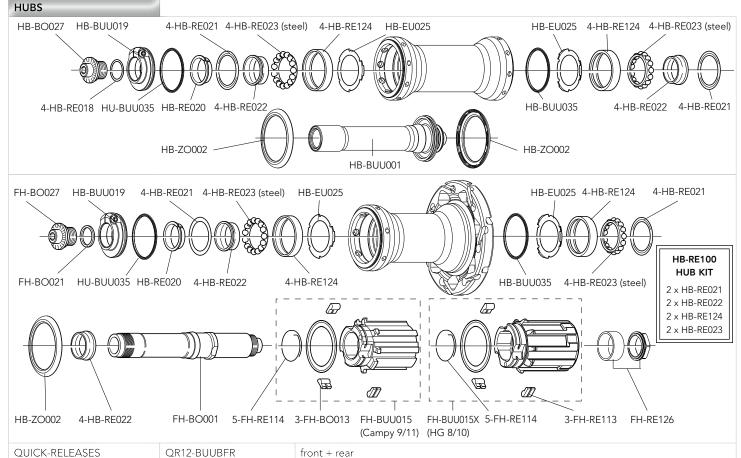
50 pieces

BULLET™ ULTRA CX clincher (H50)

CYCLOCROSS - HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BUUXCFRX WH12-BUUXCF WH12-BUUXCR	FRONT+REAR Campagnolo FW body FRONT+REAR HG type FW body front rear Campagnolo FW body rear HG type FW body	1.610 1.649 737 873 912



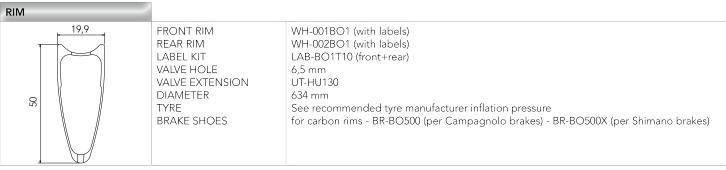


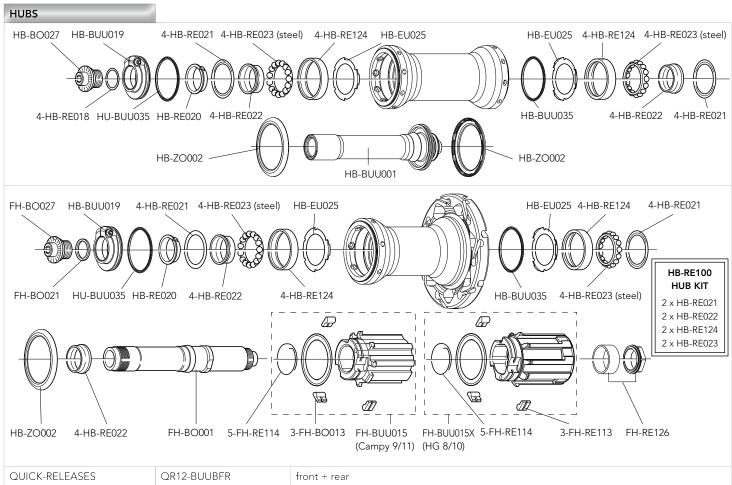
SPOKES		
COMPLETE FRONT KIT	KIT-03BUU	18 front spokes + 18 nuts + 18 nut supporting plates
COMPLETE REAR KIT	KIT-04BUU	14 rear right spokes + 7 rear left spokes + 21 nuts + 21 nut supporting plates
MINI-KIT	KIT-500BUU	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nuts + 6 nut supporting plates
NIPPLES	WH-015BUU	red - 10 pieces
SPOKE RING	UT-WH010	anti-rotation spokes
INSERT NIPPLE	UT-WH160	magnet-attractor for nipple
NIPPLE MAGNET	UT-WH050	nipple-guide
SPOKE SPANNER	UT-WH090	spoke wrenches

BORA™ ONE CX tubular

CYCLOCROSS - HIGH PROFILE

INTENDED USE	WHEEL CODES	DESCRIPTION	WEIGHT
This product has been designed and manufactured to be fitted and used only on "racing" or "cyclocross" bikes (if they bear the CX mark), and any other use is expressly excluded. Any other use of this product (like, for instance, cross country, all mountain-enduro, acrobatic off-road, downhill, fourcross, freeride, free-style or any other type of extreme off-road cycling as defined by UCI) can cause accidents, injuries and even death and is therefore expressly forbidden	WH12-BOXTFRX1 WH12-BOXTF1 WH12-BOXTFX1 WH12-BOXTR1	FRONT+REAR Campagnolo FW body+brake shoes BR-BO500 FRONT+REAR HG type FW body+brake shoes BR-BO500X front+brake shoes BR-BO500 front+brake shoes BR-BO500X rear Campagnolo FW body+brake shoes BR-BO500X rear HG type FW body+brake shoes BR-BO500X	1.350 1.389 590 590 760 799





SPOKES		
COMPLETE FRONT KIT	KIT-01BO1	18 front spokes + 18 nuts + 18 nut supporting plates
COMPLETE REAR KIT	KIT-02BO1	14 rear right spokes + 7 rear left spokes + 21 nuts + 21 nut supporting plates
MINI-KIT	KIT-100BO1	2 front spokes + 2 rear right spokes + 2 rear left spokes + 6 nuts + 6 nut supporting plates
NUTS	10-WH-010BO	10 pieces
PIASTRINE	10-WH-011BO	10 pieces

! WARNING!

Because of the high temperatures reached when breaking, we recommend you use only glue for tubular tires specifically for carbon fibre rims.

MAXIMUM OPERATING PRESSURE

				RIM DIM	ENSION	
			1	13C	1	5C
	mm	in.	BAR	PSI	BAR	PSI
	18	0,70	10,0	146		
	20	0,80	9,5	138		
턴	23	0,90	9,5	138	9,5	138
\geq	25	1,00	9,0	131	9,0	131
TYRE WIDTH	28	1,10			8,0	117
	30	1,20			7,0	103
	32	1,25			6,7	99
	35	1,30			6,3	93

VALVE EXTENSIONS

Your BULLET/BULLET ULTRA/BORA ULTRA 80 wheels are supplied with valve extensions that correspond to depth of the rim as follows:

PROFILE RIM	MALE VALVE ADAPTER (SUPPLIED)			
BULLET/BULLET ULTRA H50	UT-WH100M (2WF) UT-WH130M (CL.)	L = 35 mm		
BULLET/BULLET ULTRA H80	UT-WH110M (2WF) UT-WH140M (CL.)	L = 65 mm		
BULLET/BULLET ULTRA H105	UT-WH120M (2WF) UT-WH150M (CL.)	L = 90 mm		
BORA ULTRA H80	UT-WH160M	L = 74 mm		

PROFILE RIM	FEMALE VALVE ADAPTER (OPTION)			
BULLET/BULLET ULTRA H50	UT-WH130F	L = 37 mm		
BULLET/BULLET ULTRA H80	UT-WH140F	L = 67 mm		
BULLET/BULLET ULTRA H105	UT-WH150F	L = 92 mm	L	
BORA ULTRA H80	UT-WH160F	L = 80 mm		

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 (Campagnolo Pro-Shop, Campagnolo Service Center and specialised mechanics).

001 HUB ADJUSTMENT FRONT/REAR X 002 SERVICING FRONT HUB ASSEMBLY X 003 REPLACING THE STEEL AERO SPOKE X 004 REMOVAL AND INSTALLATION OF FREEHUB BODY X 005 DISASSEMBLY AND REASSEMBLY OF THE REAR HUB X 006 RADIAL/AXIAL CLEARANCE ADJUSTMENT X X 007 REPLACING THE ALUMINIUM AERO SPOKE X 008 REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE X 009 REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE X 010 REPLACING THE PAWLS OF THE FREEWHEEL BODY X X 011 SPOKE GUARD ASSEMBLY X 012 MALE VALVE EXTENSION ASSEMBLY X	
003 REPLACING THE STEEL AERO SPOKE 004 REMOVAL AND INSTALLATION OF FREEHUB BODY 005 DISASSEMBLY AND REASSEMBLY OF THE REAR HUB 006 RADIAL/AXIAL CLEARANCE ADJUSTMENT 007 REPLACING THE ALUMINIUM AERO SPOKE 008 REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE 009 REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE 010 REPLACING THE PAWLS OF THE FREEWHEEL BODY 011 SPOKE GUARD ASSEMBLY 012 MALE VALVE EXTENSION ASSEMBLY x	216
004 REMOVAL AND INSTALLATION OF FREEHUB BODY 005 DISASSEMBLY AND REASSEMBLY OF THE REAR HUB 006 RADIAL/AXIAL CLEARANCE ADJUSTMENT 007 REPLACING THE ALUMINIUM AERO SPOKE 008 REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE 009 REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE 010 REPLACING THE PAWLS OF THE FREEWHEEL BODY 011 SPOKE GUARD ASSEMBLY 012 MALE VALVE EXTENSION ASSEMBLY x	217
005 DISASSEMBLY AND REASSEMBLY OF THE REAR HUB 006 RADIAL/AXIAL CLEARANCE ADJUSTMENT x x 007 REPLACING THE ALUMINIUM AERO SPOKE x 008 REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE x 009 REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE x 010 REPLACING THE PAWLS OF THE FREEWHEEL BODY x x 011 SPOKE GUARD ASSEMBLY x x 012 MALE VALVE EXTENSION ASSEMBLY	225
006 RADIAL/AXIAL CLEARANCE ADJUSTMENT X X 007 REPLACING THE ALUMINIUM AERO SPOKE X 008 REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE X 009 REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE X 010 REPLACING THE PAWLS OF THE FREEWHEEL BODY X X 011 SPOKE GUARD ASSEMBLY X X 012 MALE VALVE EXTENSION ASSEMBLY X	227
007 REPLACING THE ALUMINIUM AERO SPOKE x 008 REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE x 009 REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE x 010 REPLACING THE PAWLS OF THE FREEWHEEL BODY x x 011 SPOKE GUARD ASSEMBLY x x 012 MALE VALVE EXTENSION ASSEMBLY x	229
008 REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE × 009 REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE × 010 REPLACING THE PAWLS OF THE FREEWHEEL BODY × × 011 SPOKE GUARD ASSEMBLY × × 012 MALE VALVE EXTENSION ASSEMBLY ×	232
009 REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE × 010 REPLACING THE PAWLS OF THE FREEWHEEL BODY × × 011 SPOKE GUARD ASSEMBLY × × 012 MALE VALVE EXTENSION ASSEMBLY ×	234
010 REPLACING THE PAWLS OF THE FREEWHEEL BODY x x 011 SPOKE GUARD ASSEMBLY x x 012 MALE VALVE EXTENSION ASSEMBLY x	236
011 SPOKE GUARD ASSEMBLY x x 012 MALE VALVE EXTENSION ASSEMBLY x	237
012 MALE VALVE EXTENSION ASSEMBLY x	239
040 FEMALE MAINE EVERNOLONI ACCEMBINA	240
013 FEMALE VALVE EXTENSION ASSEMBLY x	241
	242
014 REMOVING AND PLACING BACK THE FRONT HUB x	243
015 REPLACING THE SPOKES x	246
016 DISASSEMBLY AND REASSEMBLY OF THE REAR HUB x	247

NEUTRON ULTRA	(spare parts on page 159)	
001	HUB ADJUSTMENT FRONT/REAR	216
002	SERVICING FRONT HUB ASSEMBLY (cone/cup)	217
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	227
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	229
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
008	REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE	236
009	REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE	237
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
HYPERON ONE (s	spare parts on page 160)	
001	HUB ADJUSTMENT FRONT/REAR	216
002	SERVICING FRONT HUB ASSEMBLY (cone/cup)	217
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	227
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	229
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
800	REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE	236
009	REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE	237
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
HYPERON ULTRA	TWO (spare parts on page 161)	
001	HUB ADJUSTMENT FRONT/REAR	216
002	SERVICING FRONT HUB ASSEMBLY (cone/cup)	217
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	227
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	229
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
008	REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE	236
009	REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE	237
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
KHAMSIN (spare p	parts on page 163)	
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
011	SPOKE GUARD ASSEMBLY	240
014	SERVICING FRONT HUB ASSEMBLY	243
015	REPLACING THE SPOKES	246
016	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	247
VENTO REACTIO	N (spare parts on page 164)	
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
014	SERVICING FRONT HUB ASSEMBLY	243
015	REPLACING THE SPOKES	246
016	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	247

SCIROCCO (spare	parts on page 165)	
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
011	SPOKE GUARD ASSEMBLY	240
014	SERVICING FRONT HUB ASSEMBLY	243
015	REPLACING THE SPOKES	246
016	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	247
ZONDA cl. (spare	parts on page 166)	
001	HUB ADJUSTMENT FRONT/REAR	216
002	SERVICING FRONT HUB ASSEMBLY	217
003	REPLACING THE STEEL AERO SPOKE	225
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	227
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	229
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
011	SPOKE GUARD ASSEMBLY	240
EURUS cl. (spare p	parts on page 167)	
001	HUB ADJUSTMENT FRONT/REAR	216
002	SERVICING FRONT HUB ASSEMBLY	217
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	227
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	229
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
007	REPLACING THE ALUMINIUM AERO SPOKE	234
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
011	SPOKE GUARD ASSEMBLY	240
SHAMAL ULTRA (spare parts on page 168)	
001	HUB ADJUSTMENT FRONT/REAR	216
002	SERVICING FRONT HUB ASSEMBLY	217
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	227
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	229
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	232
007	REPLACING THE ALUMINIUM AERO SPOKE	234
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239
011	SPOKE GUARD ASSEMBLY	240
ZONDA 2-WAY FI	IT (spare parts on page 170)	
001	HUB ADJUSTMENT FRONT/REAR	216
002	SERVICING FRONT HUB ASSEMBLY	217
003	REPLACING THE STEEL AERO SPOKE	225
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	227
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	229

ZONDA 2-WAY FI	T (spare parts on page 170)	
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	216
010	REPLACING THE PAWLS OF THE FREEWHEEL BODYL	217
011	SPOKE GUARD ASSEMBLY	227
EURUS 2-WAY FIT	(spare parts on page 171)	229
001	HUB ADJUSTMENT FRONT/REAR	232
002	REMOVING AND PLACING BACK THE FRONT HUB	236
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	237
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	239
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	
007	REPLACING THE ALUMINIUM AERO SPOKE	216
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	217
011	SPOKE GUARD ASSEMBLY	227
SHAMAL ULTRA 2	2-WAY FIT (spare parts on page 172)	229
001	HUB ADJUSTMENT FRONT/REAR	232
002	REMOVING AND PLACING BACK THE FRONT HUB	236
004	REMOVAL AND INSTALLATION OF FREEHUB BODY	237
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	239
006	RADIAL/AXIAL CLEARANCE ADJUSTMENT	
007	REPLACING THE ALUMINIUM AERO SPOKE	216
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	217
011	SPOKE GUARD ASSEMBLY	227
BULLET (spare par	ts on page 173)	229
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004	REMOVAL AND INSTALLATION OF FREEHUB BODY	227
005	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB	229
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008	REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE	236
009	REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE	237
010	REPLACING THE PAWLS OF THE FREEWHEEL BODY	239

MAINTENANCE PERIODS

WHEELS	TYPE OF OPERATION	KMS (MAX)	TIME (MAX)
Road wheels	Check at a specialized mechanic's: • check the lubrication, rolling and clearance of the hubs • check the wheel centering	2.000-5.000	
	 Check at a specialized mechanic's: 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 	10.000-20.000	
	Replace the Tubeless valve (only 2-Way Fit wheels)		1 year
CX wheels	Check at a specialized mechanic's: • check the lubrication, rolling and clearance of the hubs • check the wheel centering	2.000	
	 Check at a specialized mechanic's: 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 	10.000	



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.

OPERATION GROUPSET REVISION **DESCRIPTION** ROAD GROUPSETS CONE / CUP MOVEMENT 1/2011 **HUB ADJUSTMENT** FRONT/REAR PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED Ghibli⊺ Eurus™ Bora™ Neutron™ Zonda⊺ Bullet Ultra™ Hyperon™ Shamal™



When the wheel has been in use it may be necessary to adjust the tolerance of the axle movement with respect to the bearings rolling in the cups and cones of the hub. To check whether the adjustment is necessary, hold the rim with one hand, in with the other move the axle to identify if the tolerance is too loose or tight.



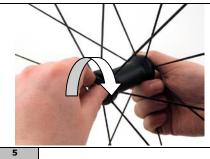
Use a torque wrench screwdriver with a 2.5mm Allen driver bit, a torque value with a range from 1.2 Nm (11 in.lbs) to 3.0 Nm (27 in.lbs) set to conduct a 2.5 Nm (22 in.lbs) closure.



Once the screwdriver has been inserted inside the 2.5 screw, loosen the screw counter-clockwise 2 revolutions.



The indication that the adjustment ring nut will be loosened will be when the slot in the nut has a visible gap. Do not remove the screw from the adjustment ring nut



Holding the axle stationary, rotate the adjustment ring nut clockwise by about 1/8 of a turn.



Check if the tolerance of the axle movement has been adjusted to satisfaction.

If there is still unsatisfactory movement, carry out point no. 5 again.



If the tolerance has been adjusted successfully, tighten the 2.5mm Allen screw with the torque wrench screwdriver set to 2.5 Nm (22 in.lbs). To reach the predefined torque, wait for the tool to indicate the proper torque.



Check the movement of the axle when it rotates, if necessary repeat from point no. 2.

GROUPSET	GROUPSET			C	PERATION	REVISION		DESCRIPTION		
ROAD GROUPSETS		CONE / CUP MOVEMENT			02	1/201	.1	SERVICING FRONT HUB ASSEMBLY		
PRODUCTS ON	WHICH THE	PROCEDURE SHOU	LD BE APPLIED							
\otimes	\odot	*			(\odot	\odot		
Ghibli™	Bora™	Hyperon™	Neutron™	Shamal	™ Eurus	S™	Zonda™	Bullet Ultra™		



With a flat-bladed screwdriver remove the first protective cover. Make sure you do not damage the cover's locking teeth which would affect reassembling at a later stage.



Once removed the cover, rotate the hub in the opposite direction.



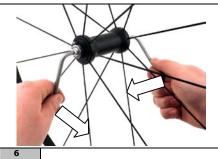
With a flat-bladed screwdriver remove the second protective cover. Make sure you do not damage the cover's locking teeth which would affect reassembling at a later stage.



Remove the cover.



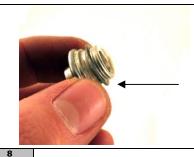
Using 2, 5mm hex wrenches to loosen the axles end-cap/flange.



Insert the two hex wrenches inside the hex-drive of the Of the axle and end cap then firmly unscrew. The right side (on the opposite side of the adjustment ring nut) remains fixed, the left side end cap rotates counterclockwise to loosen the end cap.



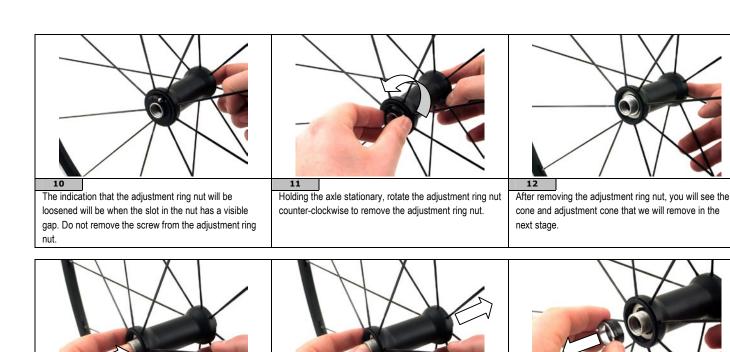
Loosen end cap (adjustment ring nut side).

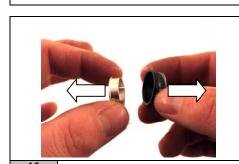


While removing the end cap, make sure you do not lose the spacer.



Use a screwdriver with a 2.5mm hexagon insert to loosen the screw of the adjustment ring nut.





Push the axle into the hub body until it reaches the other

Protect all the components so that they do not get dirty to prevent any issues during reassembly.



The axle will easily come out from the opposite side.

Remove the cone from the axle.

- ► To replace the spokes see OPERATION 003
- \blacktriangleright To replace the cones/cups, carry on until the end of the procedure.



Remove the cone and the adjustment cone.

Remove the grease shield by using a small standard screwdriver. Repeat on the opposite side.



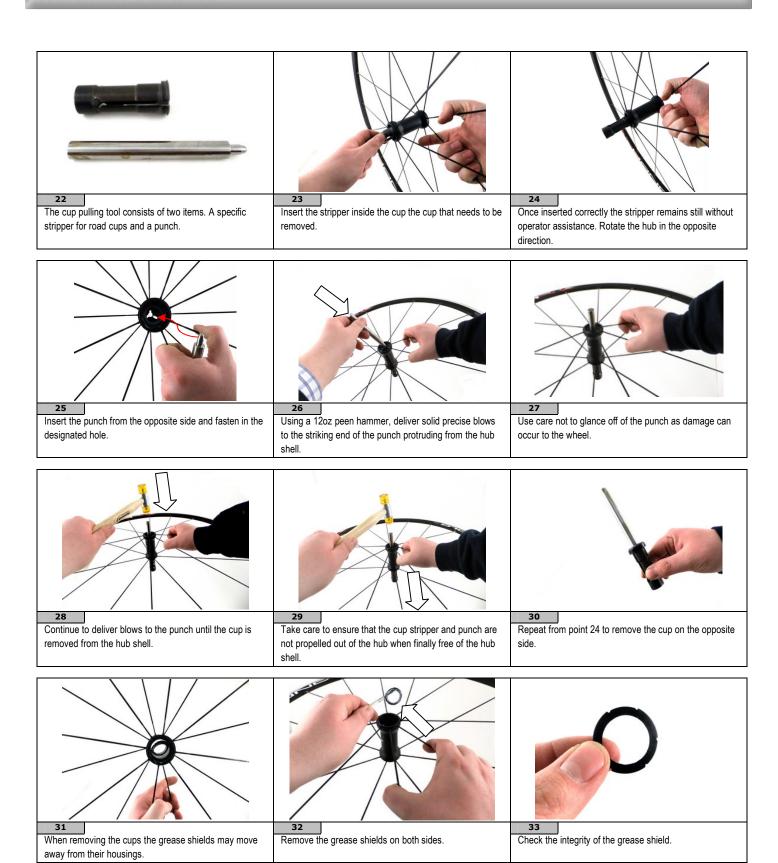
Make sure you do not damage the components.

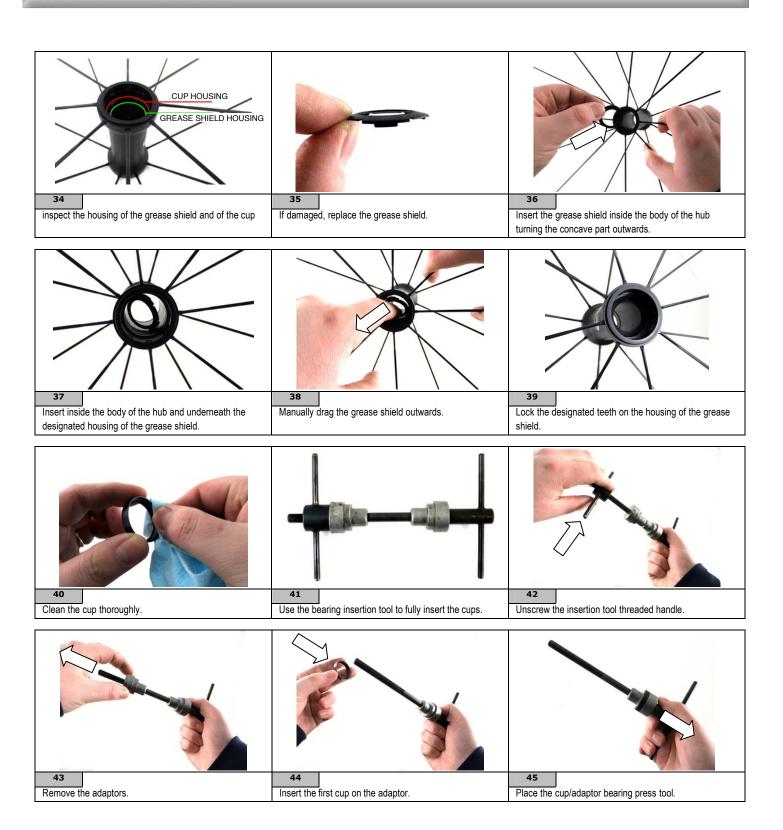


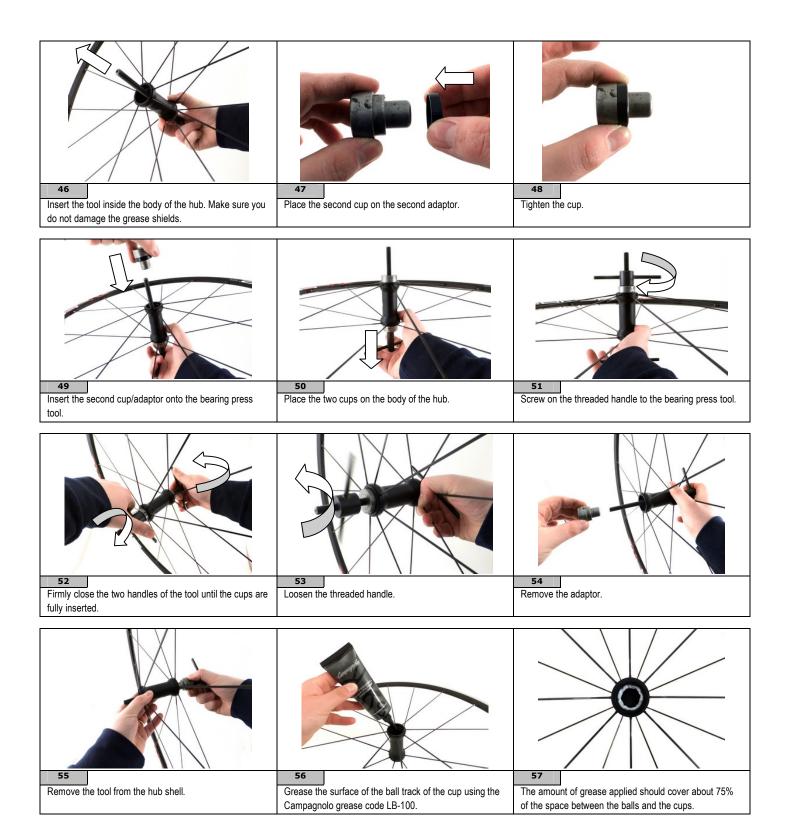
With a small screwdriver remove the bearing retaining ring making sure you do not damage it. Incorrect handling may cause the bearings to detach from the ring.

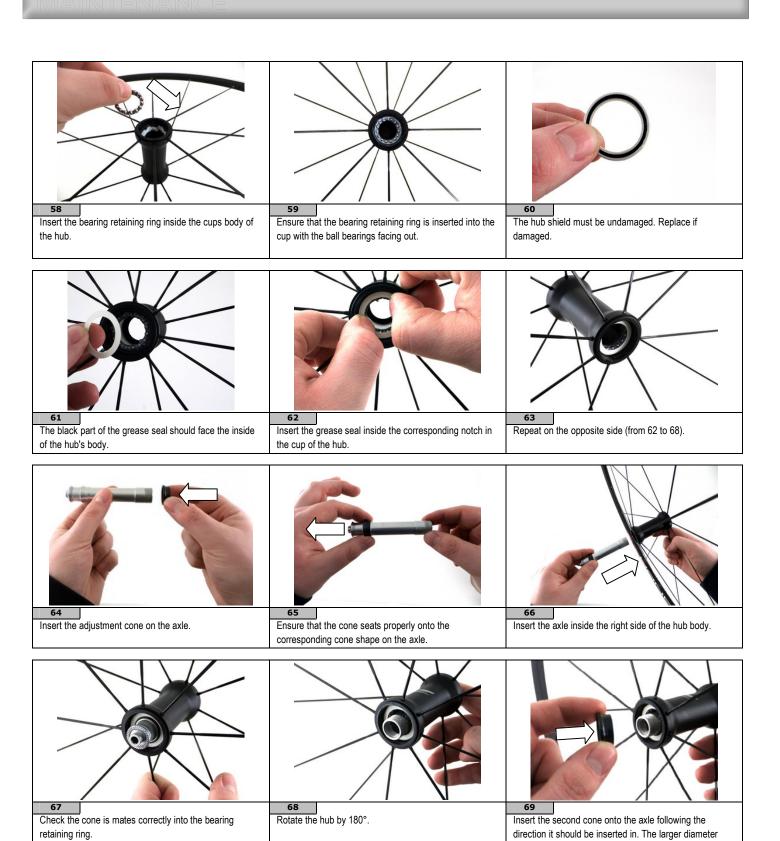


Remove the cups using the special cup pulling tool.









should face the outside of the hub's body.



Check the cone is mates correctly into the bearing retaining ring.



Insert the adjustment cone onto the axle mating into the cone from 69-70. The direction it should be inserted in. The larger diameter should face the outside of the hub's body.



Manipulate it into position by using a small screwdriver. Push the adjustment cone in by pressing on various points of the circumference.



Inspect the adjustment ring nut. If it is damaged, replace it



Install and tighten the adjustment ring nut clockwise and hold the axle while holding the axle stationary with your right hand.



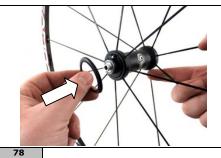
Inspect the axle end cap. If it is damaged, replace it. Insure that the small spacer is in place and install the end cap into the axle end.



Screw the axle end cap clockwise.



Insert the two 5mm hex wrenches inside the hexagons of the hub's body and tighten firmly. The right wrench (on the opposite side of the adjustment ring nut) remains fixed, the left wrench rotates clockwise.



Inspect the dust covers. If they are damaged, replace them. Insert the cover with the larger internal diameter on the body of the hub on the adjustment ring nut side.



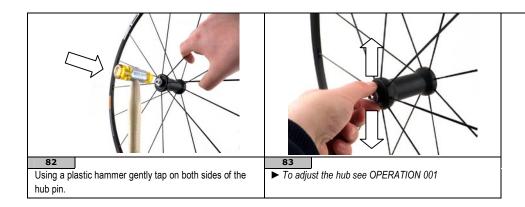
Make sure the cover engages correctly into place.



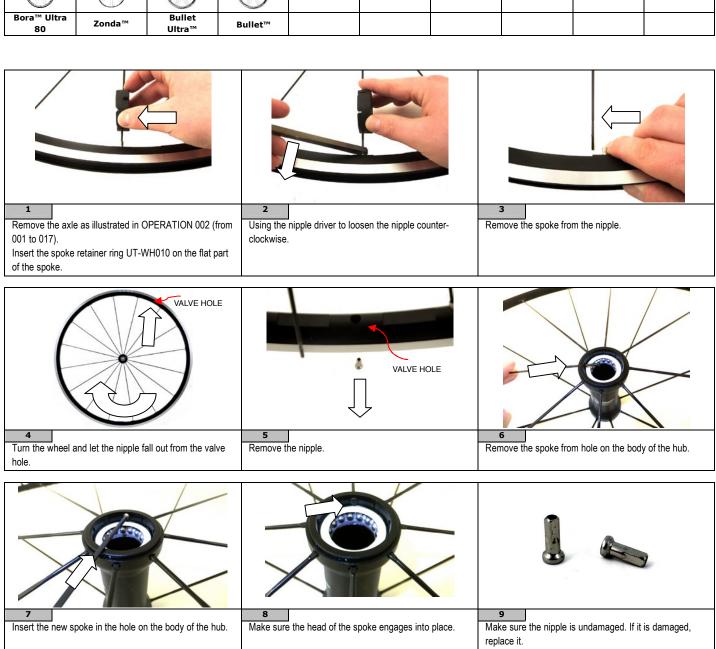
Insert the cover with the smaller internal diameter on the body of the hub on the side opposite to the adjustment ring nut.

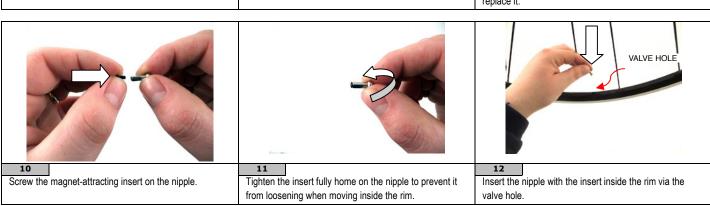


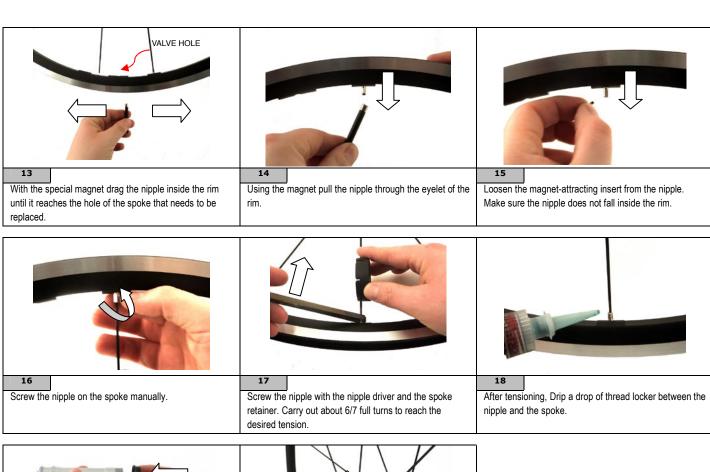
Make sure the cover engages correctly into place.

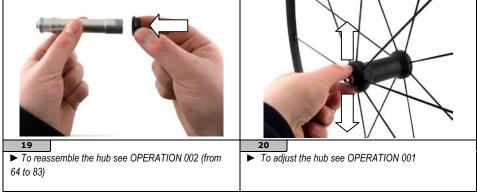


GROUPSET		TYPE		OP	ERATION	REVISION	DESCRIPTION	DESCRIPTION		
ROAD GROUPS	ROAD GROUPSETS C		ENT	003	1	1/2011	REPLACING TH	REPLACING THE STEEL AERO SPOKE		
PRODUCTS ON	PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED									
\odot	0	\odot	\odot							
Bora™ Ultra 80	Zonda™	Bullet Ultra™	Bullet™							

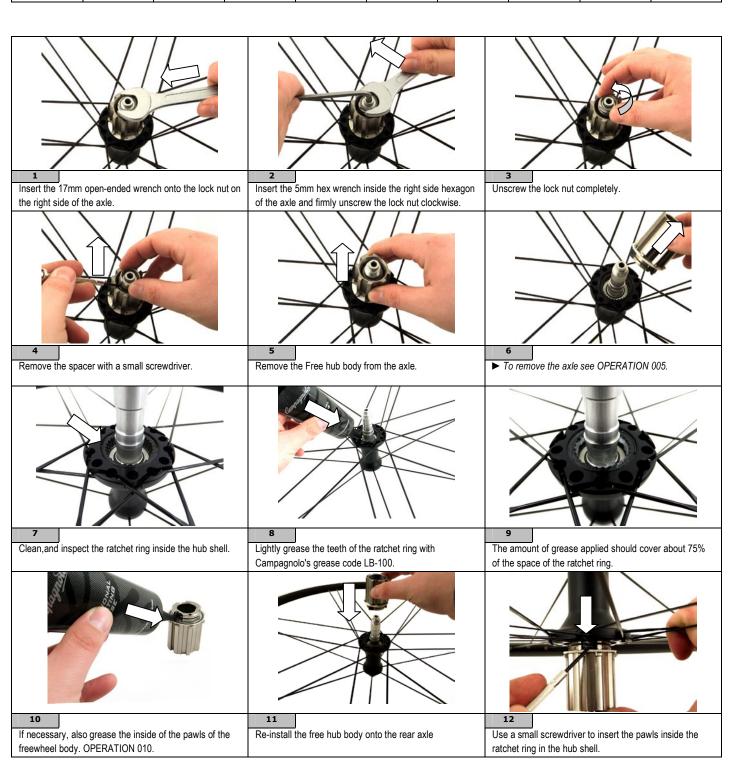


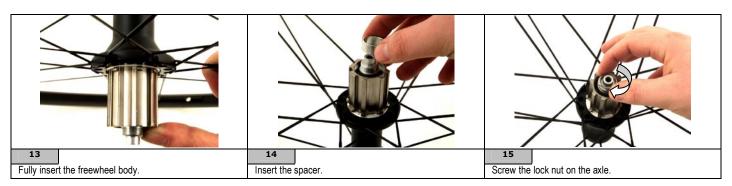






GROUPSET		TYPE			RATION	REVISION		DESCRIPTION			
ROAD GROUPSETS		CONE / CUP MOVEMENT		004	004 1/2011		11	REMOVAL AND INSTALLATION OF FREEHUB			
							BODY				
PRODUCTS ON	WHICH THE	PROCEDURE SHOU	LD BE APPLIED								
\otimes	0	•	*	9	0)	0	0			
Ghibli™	Bora™	Hyperon™	Neutron™	Shamal™	Eurus	5™	Zonda™	Bullet Ultra™			







Insert the 5mm hex wrench inside the axle, hold the axle stationary and torque the lock nut with the a 17mm crows foot and a torque wrench.

GROUPSET		TYPE	OPE	OPERATION REVISION		SION	DESCRIPTION			
ROAD GROUPS	SETS	CONE / CUP MOVEN	IENT	005	005		11	DISASSEMBLY AND REASSEMBLY OF THE REAR HUB		
PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED										
\otimes	\odot	•			()	\odot	\odot		
Ghibli™	Bora™	Hyperon™	Neutron™	Shamal™	Eurus	S TM	Zonda™	Bullet Ultra™		



Remove the cover from the side of the adjustment ring nut with a small flat-bladed screwdriver.



► To remove the freewheel body see OPERATION 004 (from 1 to 6)



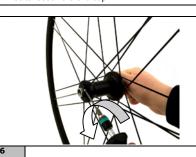
Insert the two hex wrenches inside the hex-drive of the Of the axle and end cap then firmly unscrew. The right side (on the opposite side of the adjustment ring nut) remains fixed, the left side end cap rotates counterclockwise to loosen the end cap.



Loosen the axle end cap (adjustment ring nut side).



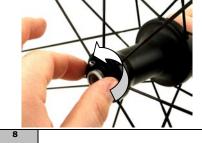
While removing the end cap, make sure you do not lose the spacer.



Use a screwdriver with a 2.5mm hex insert to loosen the screw of the adjustment ring nut.



The indication that the adjustment ring nut will be loosened will be when the slot in the nut has a visible gap. Do not remove the screw from the adjustment ring nut.



Loosen the adjustment ring nut counter-clockwise and at the same hold the axle on the opposite side.



Push the axle inside the body of the hub until it reaches the other side.



Remove the axle from the body of the hub.



Remove the cone and the adjustment cone from the body of the hub.



► To replace the cups see OPERATION 002 (from 17 to



► To replace the spoke see OPERATION 003 (from 1 to



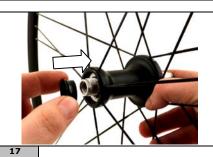
Insert the cone on the rear axle following the direction it should be inserted in. The larger diameter should face the axle.



Check the cone is mates correctly into the bearing retaining ring.



Insert the axle inside the body of the hub on the ratchet ring side.



Insert the second cone onto the axle following the direction it should be inserted in. The larger diameter should face the outside of the hub's body.



Insert the adjustment cone onto the axle mating into the cone from 17. The direction it should be inserted in. The larger diameter should face the outside of the hub's body.



Manipulate it into position by using a small screwdriver. Push the adjustment cone in by pressing on various points of the circumference.



Install and tighten the adjustment ring nut clockwise and hold the axle while holding the axle stationary with your right hand.



Inspect the axle end cap. If it is damaged, replace it. Insure that the small spacer is in place and install the end cap into the axle end.



22

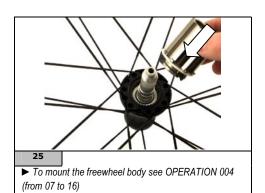
Insert the two 5mm hex wrenches inside the hexagons of the hub's body and tighten firmly. The right wrench (on the opposite side of the adjustment ring nut) remains fixed, the left wrench rotates clockwise.



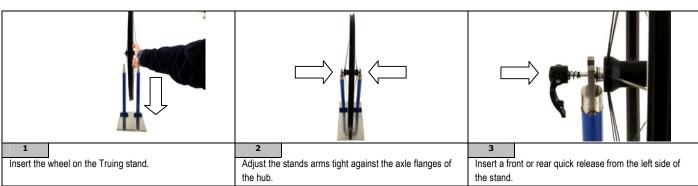
Insert the cover with the larger internal diameter on the body of the hub on the adjustment ring nut side. If it is damaged, replace it.

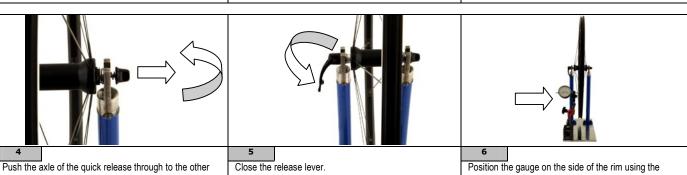


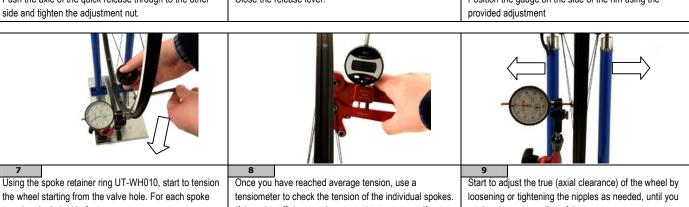
► To adjust the hub see OPERATION 001

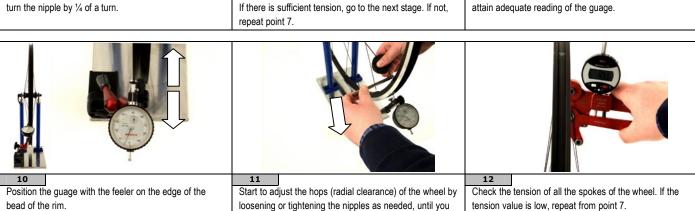


GROUPSET		TYPE	YPE			ATION	REVISION		DESCRIPTION		
ROAD GROUPS	SETS	ALL	\LL			006 1/2011			RADIAL/AXIAL CLEARANCE ADJUSTMENT		
PRODUCTS ON	WHICH THE	PROCEDURE SHOU	LD BE APPLIED								
0	\odot)	(\cdot)		\odot	\odot		
Bora™	Hyperon	™ Neutron™	Shamal™	Eur	IS™	Zonda	тм	Bullet Ultra™	Bullet™		
		•									
Scirocco™	Khamsir	™ Vento™									









loosening or tightening the nipples as needed, until you tension value is low, repeat from point 7. attain adequate reading of the guage.



Settle the spokes. For each spoke firmly pull the rim with two hands from the opposite side of the spoke. Repeat on the opposite side of the wheel.



After the wheel has settled, check again both the axial and the radial clearance.

► AXIAL CLEARANCE → Point 9

14

► RADIAL CLEARANCE → Point 11



Check the tension of all the spokes of the wheel. If the tension value is low, repeat from point 7.



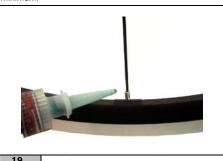
Check the dish of the wheel using the special dishing tool. By resetting the dishing tool on one side of the wheel, the distance between the fixing screw and the part on the opposite side should be reduced to a minimum.



Example of correct dish.



Example of incorrect dish.



Insert the designated thread lock once the operation is complete.

Insert the nipple with the insert inside the rim via the

valve hole.

GROUPSET TYPE OPERATION REVISION DESCRIPTION CONE / CUP MOVEMENT 3/2011 ROAD GROUPSETS REPLACING THE ALUMINIUM AERO SPOKE PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED Shamal™ Eurus™ Remove the two screws from the sealing cover of the Remove the cover. Insert the spoke retainer ring UT-WH010 on the flat part hub on the side on which you want to replace spoke. of the spoke to be replaced. VALVE HOLE Using the special nipple wrench UT-WH070 loosen the Remove the spoke from the nipple. Remove the nipple via the valve hole of the wheel nipple anticlockwise. 8 If the nipple is damaged, replace it. Remove the nipple. Screw the magnet-attracting insert on the nipple.

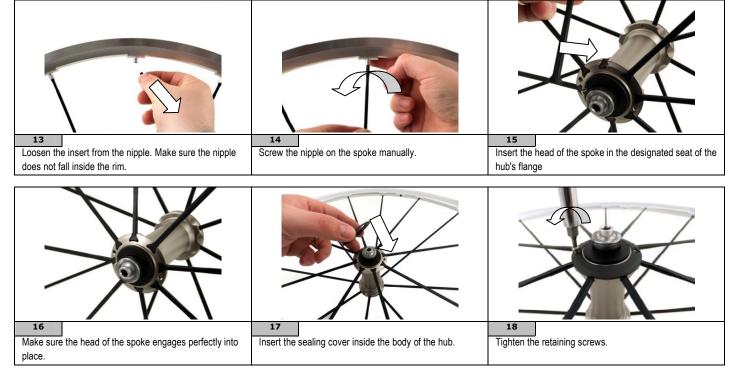
With the special magnet drag the nipple inside the rim

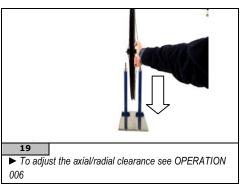
until it reaches the hole of the spoke that needs to be

replaced.

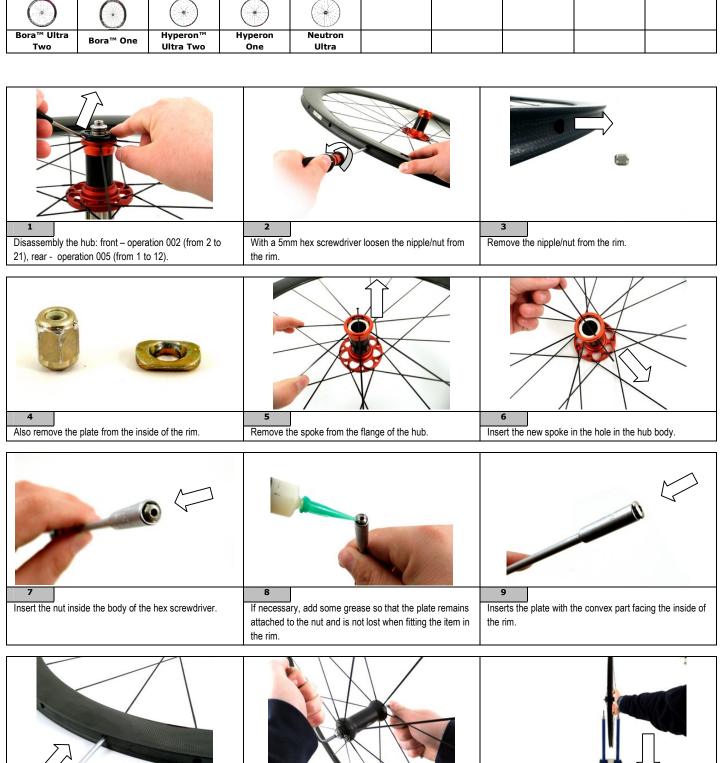
Attract the nipple to and through the corresponding hole

of the rim.





GROUPSET TYPE OPERATION REVISION DESCRIPTION ROAD GROUPSETS CONE / CUP MOVEMENT 008 3/2011 REPLACING THE SPOKE NUT/PLATE FRONT WHEEL AND REAR WHEEL LEFT SIDE PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED Bora™ Ultra Bora™ One Hyperon™ Hyperon Neutron Hyperon Hyp



Assembly the hub: front - operation 002 (from 56 to 83),

rear - operation 005 (from 14 to 24).

Insert the nut with the 5mm hex screwdriver.

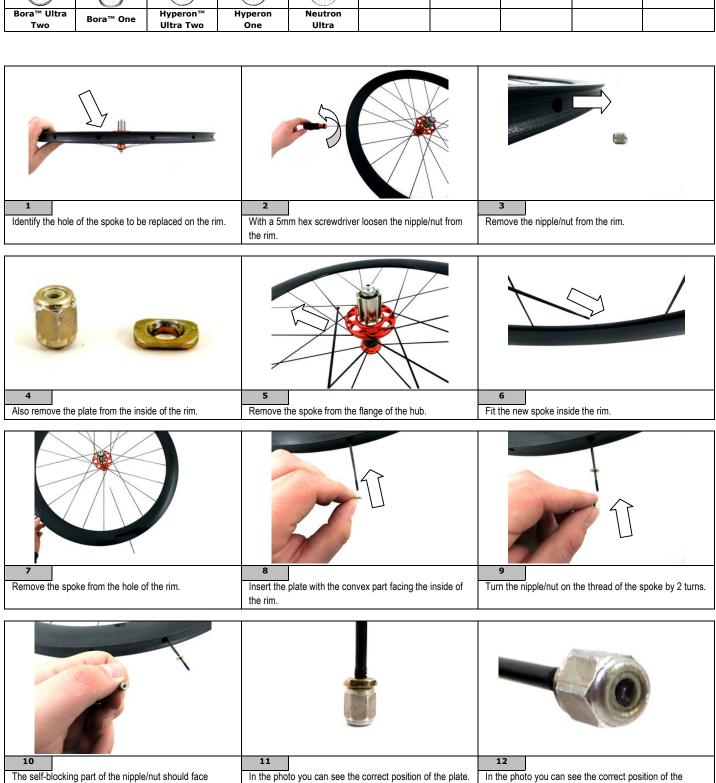
► To adjust the radial /axial clearance see OPERATION

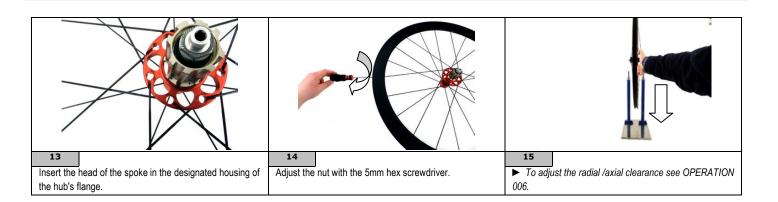
nipple/nut.

MAINTENANCE

outwards.

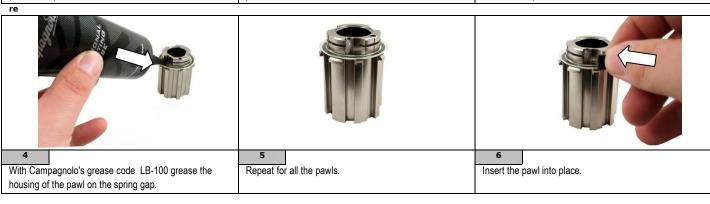
GROUPSET		TYPE			RATION	REVISION	[DESCRIPTION		
ROAD GROUPS	SETS	CONE / CUP MOVEMENT				3/2011		REPLACING THE SPOKE NUT/PLATE REAR WHEEL FREE WHEEL BODY SIDE		
PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED										
\odot	\odot	•	\odot	•						
Bora™ Ultra Two	Bora™ One	Hyperon™ Ultra Two	Hyperon One	Neutron Ultra						



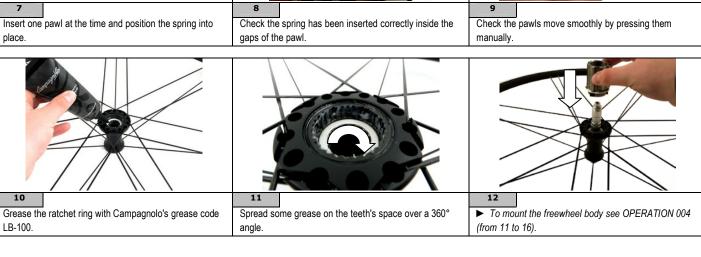


GROUPSET		TYPE	YPE				REV	ISION	DESCRIPTION		
ROAD GROUPS	SETS	ALL		010	010 1/2		REPLACING THE PAWLS OF THE FRE BODY		REEWHEEL		
PRODUCTS ON	PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED										
\odot	0	•	*	0)	()	\odot	\odot	\odot	
Ghibli™	Bora™	Hyperon™	Neutron™	Shan	nal™	Eurus	тм	Zonda™	Bullet Ultra™	Bullet™	
	•	•									
Scirocco™	Khamsin	™ Vento™									

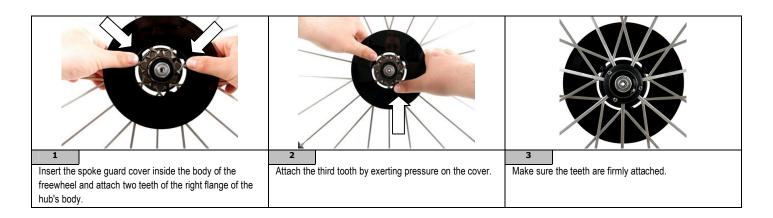








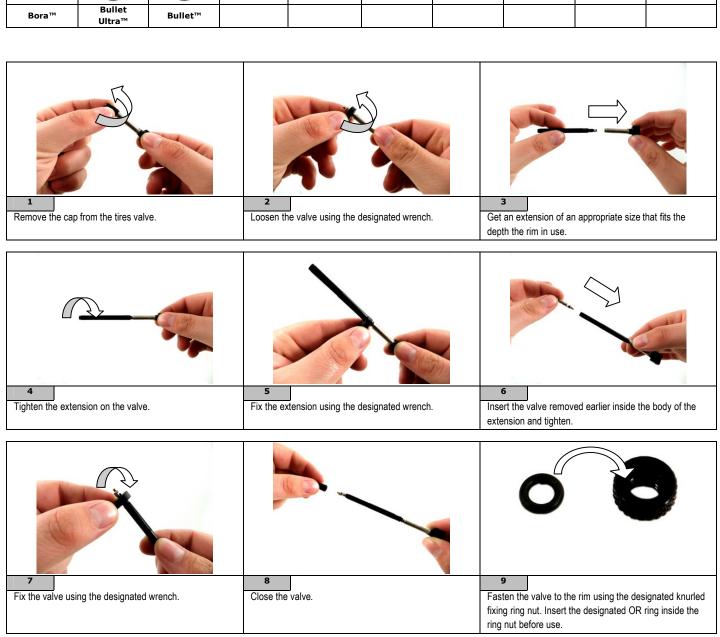
GROUPSET		TYPE		OPERAT	ION	REVISIO	ON	DESCRIPTION		
ROAD GROUPS	ETS	ALL		011		1/2011		SPOKE GUARD ASSEMBLY		
PRODUCTS ON	PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED									
		0		\odot						
Shamal™	Eurus™	Zonda™	Scirocco™	Khamsin™						

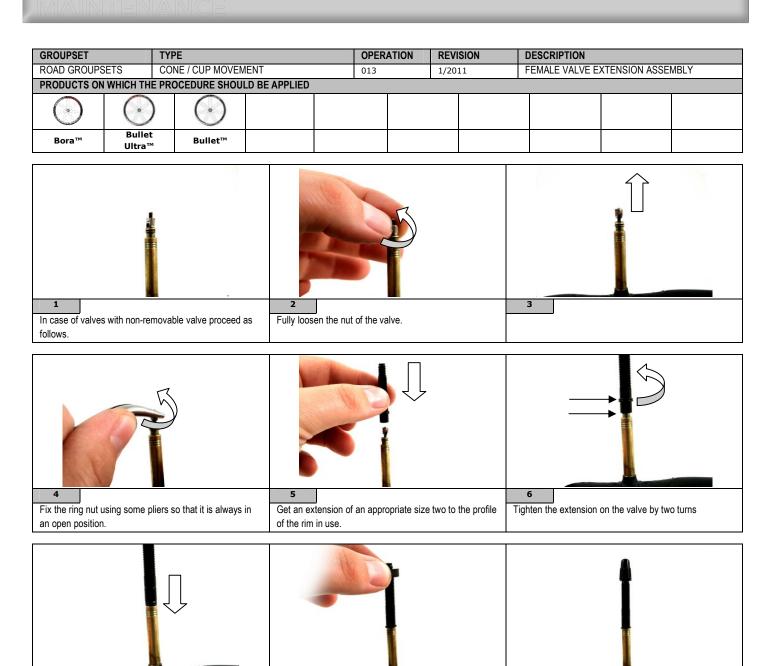


SPOKE PROTECTORS

SHAMAL ULTRA	50-WH-SP10SH
EURUS	50-WH-SP10SH
ZONDA	50-WH-SP10ZO
SCIROCCO	50-WH-SP10SC
KHAMSIN	50-WH-SP2011KH

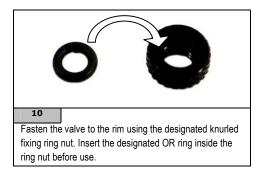
GROUPSET			OPERATION	ON REV	VISION	DESCRIPTION			
ROAD GROUPSETS CONE / CUP MOVEMENT			012	1/2	011	MALE VALVE EXTENSION ASSEMBLY			
PRODUCTS ON	PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED								
	\odot	\odot							
Bora™	Bullet Ultra™	Bullet™							





Fix the extension using the designated wrench.

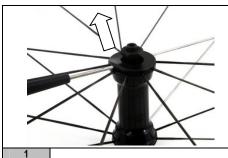
Tighten the valve.



Let the OR rings (2 pcs) that are inserted inside the

extension fall into the housing of the valve.

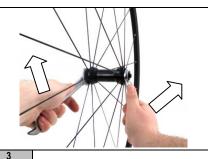
GROUPSET		TYPE		OPER/	ATION	REVIS	ION	DESCRIPTION		
ROAD GROUPS	ETS	BEARINGS MOVEMENT		014		1/2011		REMOVING AND PLACING BACK THE FRONT HUB		
PRODUCTS ON	PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED									
\odot										
Bullet™										
\odot	\odot	•								
Scirocco™	Khamsin	™ Vento™								
		•							•	•
	~ \	/		1. 1	- 1	3000	1000	\		



With a flat-bladed screwdriver remove the first protective cover. Make sure you do not damage the cover's locking teeth which would affect reassembling at a later stage.



Conduct the operation on both sides of the hub.



Using two 17mm open-ended wrenches, loosen one of the two axle end caps from the axle.



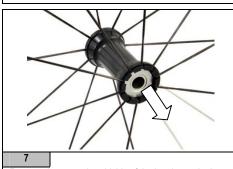
Unscrew the end cap.



Loosen the threaded spacer by holding the left side of



Slide the axle out from the opposite side.



Remove the protective shields of the bearing on both sides



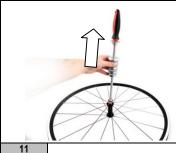
Get an adequate sized bearing extractor to remove the bearings.



Insert the designated stripper on the internal diameter of the bearing.



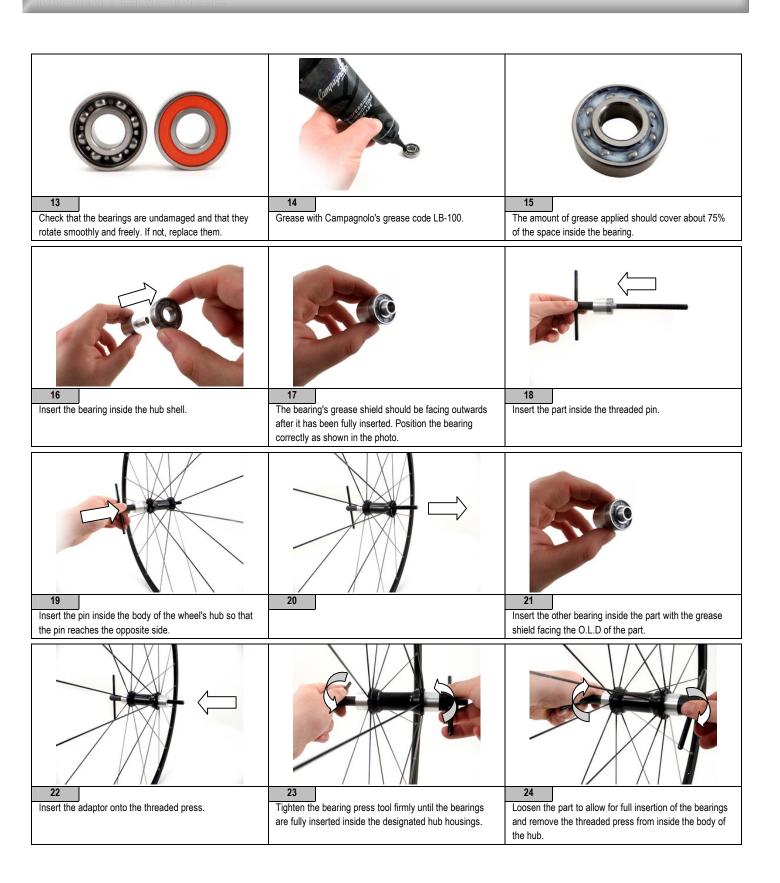
Check the stripping teeth are positioned correctly inside the bearing.

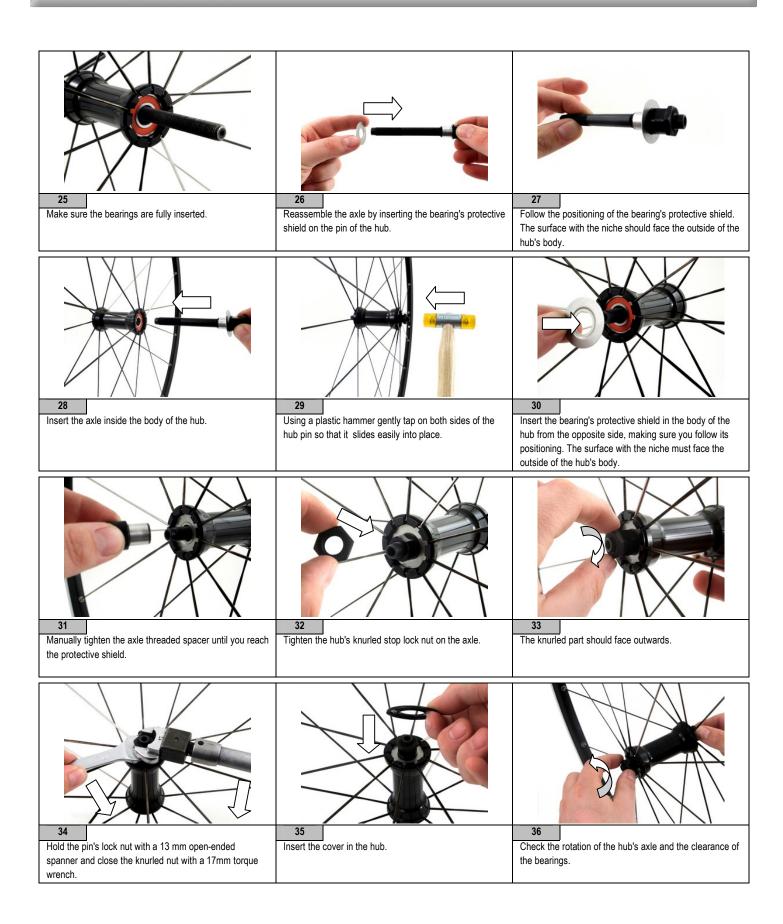


Remove the bearing using the designated striker.

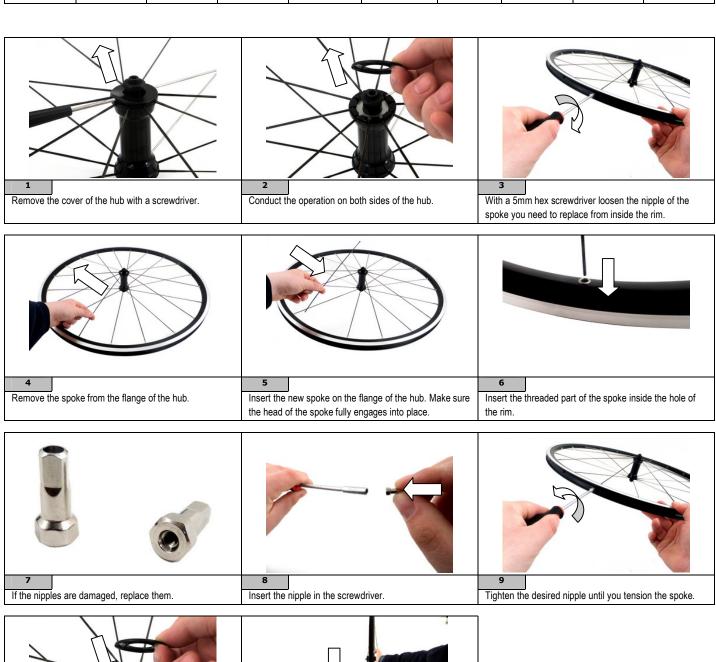


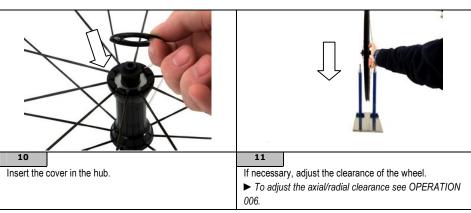
Repeat on the opposite side.



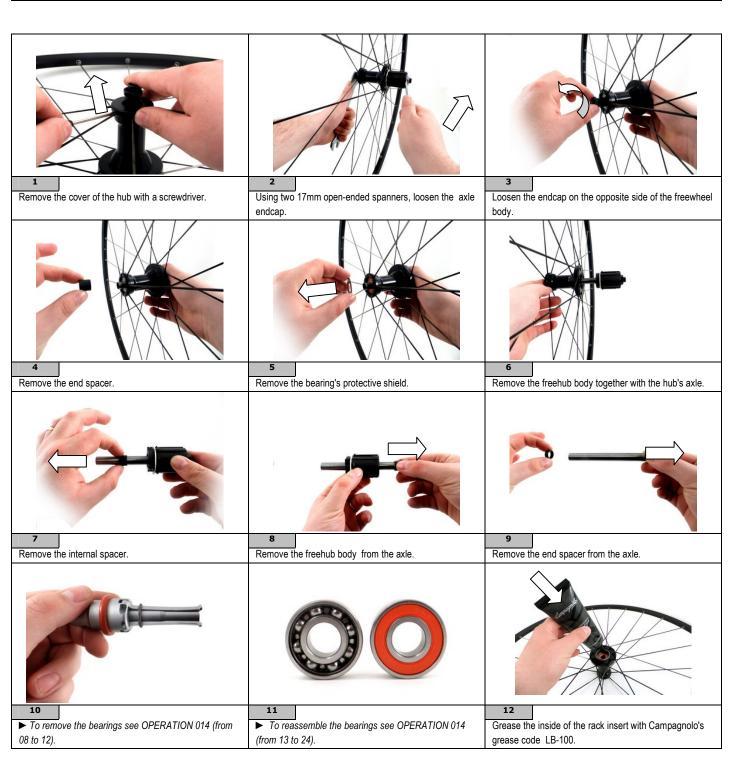


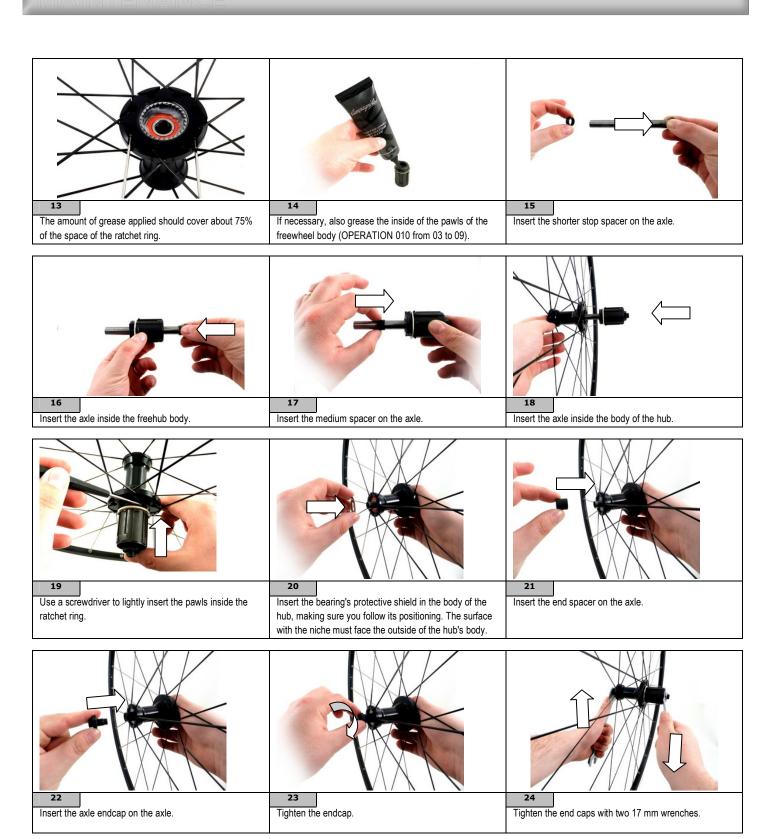
GROUPSET		TYPE		OPER#	TION	REVISION	DESCRIPTION		
ROAD GROUPS	ETS	BEARINGS MOVEMENT		015		1/2011	REPLACING THE SPOKES		
PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED									
	\odot	\odot							
Scirocco™	Khamsin™	M Vento™							

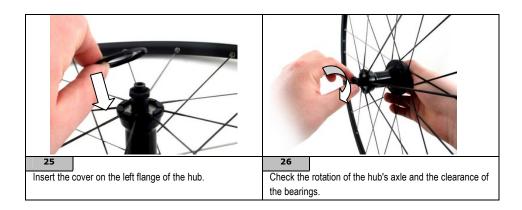




GROUPSET		TYPE	TYPE		ATION	REVIS	ION	DESCRIPTION		
ROAD GROUPS	SETS BEARINGS MOVEMENT		016	1/2011		1/2011 DISASSEMBLY AND REASSEMBLY OF HUB		OF THE REAR		
PRODUCTS ON	PRODUCTS ON WHICH THE PROCEDURE SHOULD BE APPLIED									
\odot										
Bullet™										
	\odot	\odot								
Scirocco™	Khamsir	™ Vento™				·				







			SYMBOLS KEY:		
			CAMPAGNOLO PRO-TOOLS	Tool that can be purchased	from Campagnolo's dealers
TOO	LS		PRO-TOOLS	Professional tools that can be specialised stores (for infor be purchased contact Can Service Centres)	mation on where they can npagnolo's Authorised
РНОТО	CODE	DESCRIPTION	USER TOOLS	Common tool available to th	e user TYPE OF TOOL
O	UT-WH010	Spoke retainer rin	ng	TEATORES	CAMPAGNOLO PRO-TOOLS
	UT-WH070	6mm nipple wren	nch		CAMPAGNOLO PRO-TOOLS
	UT-WH050	Nipple-guide mag	gnet		CAMPAGNOLO PRO-TOOLS
	UT-WH020	EURUS/SHAMAL I	ULTRA magnet-attracting nipple		CAMPAGNOLO PRO-TOOLS
in the second	UT-WH030	ZONDA magnet-a	attracting nipple insert		CAMPAGNOLO PRO-TOOLS
	N.D.	Nipple thread-loc	ker		PRO-TOOLS
	N.D.	17mm dynamom	etric spanner	Set to close at 15 Nm (132 in.lbs)	PRO-TOOLS
Ш	N.D.	Truing Stand			PRO-TOOLS
T _s	N.D.	Feeler gauge cen	tesimal	Resolution 0.01 mm	PRO-TOOLS
	N.D.	Analogue or digit	al tensiometer		PRO-TOOLS
\	N.D.	Dishing Tool			PRO-TOOLS
	N.D.	Professional bear	ing stripper	Closure range from 1.2 Nm (11 in.lbs) to 3.0 Nm (27 in.lbs)	PRO-TOOLS
	N.D.	Torque screwdriv	er with a 2.5mm Allen driver bit	Range di chiusura da 1,2 Nm (11 in.lbs) a 3,0 Nm (27 in.lbs)	PRO-TOOLS
	N.D.	Cup stripper for h	nubs		PRO-TOOLS
-	N.D.	Tool to fully inser	t the cups	Road Version	PRO-TOOLS
5	N.D.	Open-ended wrer	nches	Measurement 17	USER TOOLS
	N.D.	Key with a Allen o	driver bit / Torx	Allen key: 2.5 mm Torx: TR 09	USER TOOLS
	N.D.	Screwdriver with	hex 5 mm bit for nipple		USER TOOLS
Get 1910/13	N.D.	Hammer with pla	stic head	Head diameter 22 mm	USER TOOLS
	N.D.	Series of fixed All	len keys	Range from 1.5 mm to 10 mm	USER TOOLS
***************************************	N.D.	Series of screwdr	ivers		USER TOOLS
004 (5)	N.D.	Hard bristle brusl	h		USER TOOLS

FREQUENTLY ASKED QUESTIONS

1	Where can I find the specific weight of each individual wheel or component?	The weight specifications are provided on the technical sheet of each wheel or component, as well as in the Campagnolo catalogue.
2	What are the weight limits of the wheels? Where can I find the weight limits allowed by the wheels?	All Campagnolo 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 "2-Way Fit" mean?	2-Way Fit is the new wheel profile that allows you to fit either a tubeless tire or a classic clincher tire. So you can fit the valves for tubeless tires and normal clincher tires with the same effectiveness.
4	What does "Cult" mean?	Cult represents the evolution that Campagnolo has impressed on the concept of ceramic ball bearings. It is the acronym for Ceramic Ultimate Level Technology.
5	What does "Tubeless" mean?	Tubeless tires do not have an inner tube, because the air is sealed inside the tire.
6	Are Campagnolo wheels compatible with both Shimano and SRAM?	Yes. Campagnolo wheels are compatible with both Shimano and SRAM components. To use Campagnolo wheels with any drivetrain on the market, Campagnolo produces two types of freewheel body: a specific one for Campagnolo drivetrains (from 9- to 11-speed) and one for non-Campagnolo drivetrains (from 8- to 10-speed).
7	Where can I find the specific freewheel body for my drivetrain?	The two types of Campagnolo freewheel body are available at our retailers and the Campagnolo Pro-Shops as spare parts. For further details, we recommend you consult the Campagnolo spare parts catalogue.
8	I use Campagnolo wheels but I'd like to change my drivetrain brand. What do I have to do? Do I have to change the freewheel body that I have?	To use Campagnolo wheels with any drivetrain on the market, Campagnolo produces two types of freewheel body: a specific one for Campagnolo drivetrains (from 9- to 11-speed) and one for non-Campagnolo drivetrains (from 8- to 10-speed). The two types of Campagnolo freewheel body are available at our retailers and the Campagnolo Pro-Shops as spare parts. For further details, we recommend you consult the Campagnolo spare parts catalogue.
9	What types of freewheel body does Campagnolo produce?	Campagnolo produces two types of freewheel body: a specific one for Campagnolo drivetrains (from 9 to 11 speeds) and one for non-Campagnolo drivetrains (from 8 to 10 speeds).
10	Can Campagnolo wheels with freewheel body at 9/10 speeds also be used an 11-speed groupset?	Yes, they can be used without any problem. The Campagnolo freewheel body has not been modified and is compatible with 9/10/11 speeds.
11	I would like to know if your wheels are suitable for my weight	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.

FREQUENTLY ASKED QUESTIONS

	QUESTIONS	ANSWERS		
12	The wheel has lost sliding power and when I turn it I can feel that the inside of the hub is slightly rough. What shall I do?	Periodically take your bicycle to a qualified mechanic to lubricate the hubs. Check with your mechanic to select a schedule that is best for you (approximately every 2,000/5,000 km - 1,200/3,000 miles). Every 10,000/20,000 km (6,000/12,000 miles) please take your bicycle to a qualified mechanic to lubricate, remove, disassemble and check the hubs. Have your mechanic periodically check every component that is subject to wear (rims, ball bearings, brake pads). If necessary, have them replaced. At least once each month, please take your bicycle to a qualified mechanic to check the tension of the spokes, wheel centering and wheel dish and correct as necessary. Periods and riding distances are purely indicative and may be significantly different in relation to conditions of use and the intensity of your activity (for example: racing, rain, salted winter roads, weight of the rider etc.). Check with your mechanic to select a schedule that is best for you.		
13	The wheel bearings are already worn after a short time, is it normal?	Salt water environments (as found on winter roads and near the seaside) can cause galvanic corrosion on most bike parts. Carefully rinse, clean, dry and re-lubricate all exposed parts to avoid damage, malfunctions and accidents. Never spray your bicycle with water under pressure. Pressurized water, even from the nozzle of a small garden hose, can pass seals and enter into the components of your bicycle, damaging them beyond repair.		
14	The rim and hub are discoloured and the labels are ruined, is this normal?	When cleaning the wheels, only use non-abrasive, non-corrosive products such as water and neutral soap, or specific products specially designed for cleaning bicycles. Never use abrasive or metal sponges. Dry with a soft cloth. WARNING! Salt water environments (as found on winter roads and near the seaside) can cause galvanic corrosion on most bike parts. Carefully rinse, clean, dry and re-lubricate all exposed parts to avoid damage, malfunctions and accidents.		
15	There is play in the hubs of my wheels. What can I do?	Our middle and high range wheels are fitted with adjustable hubs. Contact a trained engineer and check the hub adjustment. If the problem is not sorted, contact your nearest Service Center.		

CAMPAGNOLO® IDENTIFICATION CARD

Right from its inception Campagnolo® has been marked by feature that continues to this day: that is to design, prototype and industrialise all the wheels displaying trademark of the winged shield. Indeed these take shape inside of the Campy Tech Lab™, the leading-edge department that represents the beating heart of the Italian company. Every single component of the wheel, the materials chosen and the technologies applied are the tangible result of the effort that Campagnolo® makes every day to give you maximum performance and reliability.

To ensure the top performance and reliability of its products, each project, for the production stage, must undergo a series of very strict tests that validate what has been conceived and designed up to that moment.

- Fatigue test: before the manufacturing stage, each wheel and each of its components are subjected to long and very challenging tests that ensure the durability and performance over time.
- Crash test: it simulates the impact of the wheels with possible obstacles. The Campagnolo® tests have successfully passed the tests required by UCI standards.
- Tyre burst test: all Campagnolo® wheels are tested at inflation pressures well above those indicated on the tyre.
- Environment test: exposure to UVA and UVB rays, salt attack and exposure to moisture: these are the tests that all Campagnolo® wheels must pass to ensure maximum performance and reliability over time.

100% Manually assembled and Electronically checked The pre-emptive tests mentioned above may be sufficient. BORA FINAL INSPECTION CHART OK AXIAL AND RADIAL SKID HUB CENTERING SPOKE TENSION AXLE SMOOTHNESS AESTHETIC CONTROL THIS WHEEL COMPLIES WITH ALL THE ABOVE DESCRIBED TECHNICAL CHARACTERISTICS AND TOLERANCES

TRACEABILITY IDENTIFICATION CODE

WHEELBUILDER SIGNATURE

But not for Campagnolo® who wants to ensure the highest quality of each individual wheel, checking the parameters at the end of the production process.

This is why Campagnolo® made a clear and conscious choice: to assemble each wheel manually and submit it to a series of final checks that guarantee their quality.

This is the only way, thanks to the entirely manual assembly by trained and specialised personnel and the final 100% checks carried out by specially designed electronic instruments, it is possible to ensure the quality of the wheel you have purchased.

- Balancing: it guarantees the absence of vibrations at fast
- Lateral and radial control: it guarantees the perfect alignment of the wheel to ensure rolling of the wheel
- Camber: it ensures the perfect symmetry of the wheels with the bicycle
- Spokes tension: it ensures optimal balance at every point of the wheel
- Rolling torque of the hub: it insures a perfect adjustment of the hubs

This is why, from its 2012 range, Campagnolo® wanted to supply each wheel with its own Identity Card (ID) which uniquely identifies the wheel and certifies that it has been manually assembled and has passed all tests required by the strict quality protocol.



CAMPAGNOLO® IN THE WORLD

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