

Reserve Wheel Build Tech Sheet

Lacing	-3x pattern for 28 and 32 hole wheels
	-2x pattern for 24 hole wheels
	-Only thread each nipple on a few turns while lacing. Do not tension any spokes until the entire wheel is laced
	-Add tension slowly and evenly after lacing
Spoke Freeze	-When the wheel is complete, add one dot of spoke freeze to each spoke-nipple interface
	-Once applied to each nipple, spin the wheel in the stand to let the spoke freeze work its way into the threads
	-Clean thoroughly with isopropyl alcohol after application
Truing	-True sidestroke, hop, and dish to within 0.4mm
	-Ensure that tension remains balanced
	-Take precaution to minimize spoke winding when adding tension
Destress	-Destress frequently when adding tension to the wheel. Every round of adding tension should be followed by destressing.
	-If you adjust more than 5 spokes while truing, destress the wheel.
Final Spoke Tensions	-Finished tight-side tension: 1000-1300n
	-Finished loose-side tension: balance within 300n
	-Tension readings vary between tension meter types. Use your tension meter's conversion chart to find finished tension.

Spoke Lengths

700c/650b

DT 350 and 370				
XDr or HG 11-speed, Centerlock				
Spokes: Sapim CX Ray Aero, 2.0, J-Bend				
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm				
	Front Wheel		Rear Wheel	
	Non-Drive Side	Drive side	Non-Drive Side	Drive side
22mm - 700c	292	293	293	292
25mm - 650b	271	272	271	270
32mm	280	282	281	280

DT 240				
XDr or HG 11-speed, Centerlock				
Spokes: Sapim CX Ray Aero, 2.0, J-Bend				
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm				
	Front Wheel		Rear Wheel	
	Non-Drive Side	Drive side	Non-Drive Side	Drive side
22mm - 700c	292	293	299	297
25mm - 650b	270	272	277	276
32mm	278	279	285	283

i9 Torch Road				
XDr or HG 11-speed, Centerlock				
Spokes: Sapim CX Ray Aero, 2.0, J-Bend				
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm				
	Front Wheel		Rear Wheel	
	Non-Drive Side	Drive side	Non-Drive Side	Drive side
22mm - 700c	293	295	293	289
25mm - 650b	271	273	272	267
32mm	278	280	279	275

Spoke Lengths

Reserve Mountain

DT 370				
XD and HG, 6-Bolt				
Spokes: DT Swiss Competition Race, Standard, 2.0, Black, J-bend				
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm				
	Front Wheel		Rear Wheel	
	Non-Drive Side	Drive side	Non-Drive Side	Drive side
25mm - 29"	293	294	294	293
27mm - 27.5"	274	275	274	274
27mm - 29"	290	291	291	290
28 XC - 29"	288	290	289	287
30mm - 27.5"	272	272	272	271
30mm - 29"(2018-2019)	290	291	290	290
30mm V2 - 29" (2020 - present)	292	294	293	293
30 SL - 29"	294	295	294	294
30 HD - 27.5"	272	272	272	271
30 HD - 29"	294	295	295	294
31 DH - 27.5"	272	272	272	271
31 DH - 29"	292	294	293	292
37 27.5"	275	277	276	275
37mm - 29"	294	295	294	293

DT 350				
XD and HG, 6-Bolt				
Spokes: DT Swiss Competition Race, Standard, 2.0, Black, J-bend				
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm				
	Front Wheel		Rear Wheel	
	Non-Drive Side	Drive side	Non-Drive Side	Drive side
25mm - 29"	293	294	294	293
27mm - 27.5"	274	275	274	274
27mm - 29"	290	291	291	290
28 XC - 29"	288	290	289	287
30mm - 27.5"	272	272	272	271
30mm - 29"(2018-2019)	290	291	290	290
30mm V2 - 29" (2020 - present)	292	294	293	293
30 SL - 29"	294	297	295	295
30 HD - 27.5"	272	272	272	271
30 HD - 29"	294	295	295	294
31 DH - 27.5"	272	272	272	271
31 DH - 29"	292	294	293	292
37mm - 27.5"	275	277	276	275
37mm - 29"	294	295	294	293

Spoke Lengths

Reserve Mountain

Hope Pro 4				
XD, 6-Bolt				
Spokes: DT Swiss Competition Race, Standard, 2.0, Black, J-bend				
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm				
Front Wheel		Rear Wheel		
Non-Drive Side	Drive side	Non-Drive Side	Drive side	
27mm - 29"	290	290	291	290
37mm - 27.5"	275	275	275	274

DT 240				
MicroSpline, Centerlock				
Spokes: DT Swiss Competition Race, Standard, 2.0, Black, J-bend				
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm				
Front Wheel		Rear Wheel		
Non-Drive Side	Drive side	Non-Drive Side	Drive side	
25mm - 29"	293	294	294	293
27mm - 27.5"	274	276	275	274
27mm - 29"	291	292	291	290
28 XC - 29"	293	296	295	294
30mm - 27.5"	272	272	273	273
30mm - 29"(2018-2019)	291	292	291	290
30mm V2 - 29" (2020 - present)	294	295	293	293
30 SL - 29"	294	297	295	295
30 HD - 27.5"	275	276	275	275
30 HD - 29"	294	296	295	294
31 DH - 27.5"	273	275	274	273
31 DH - 29"	292	294	293	292
37mm - 27.5"	276	277	276	275
37mm - 29"	294	295	294	293

DT 180				
MicroSpline, Centerlock				
Spokes: DT Swiss Competition Race, Standard, 2.0, Black, J-bend				
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm				
Front Wheel		Rear Wheel		
Non-Drive Side	Drive side	Non-Drive Side	Drive side	
28 XC - 29"	296	297	297	296

Spoke Lengths

Reserve Mountain

i9 Hydra (2020-present), i9 Torch (2018-2019)					
XD or HG, 6-Bolt					
Spokes: DT Swiss Competition Race, Standard, 2.0, Black, J-bend					
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm					
		Front Wheel		Rear Wheel	
		Non-Drive Side	Drive side	Non-Drive Side	Drive side
25mm - 29"		293	295	294	292
27mm - 27.5"		275	277	275	274
27mm - 29"		292	293	292	291
28 XC - 29"		288	290	289	285
30mm - 27.5"		272	273	272	271
30mm - 29" (2018-2019)		291	292	291	290
30mm V2 - 29" (2020 - present)		294	295	294	292
30 SL - 29"		294	295	295	294
30 HD - 27.5"		274	275	275	274
30 HD - 29"		294	295	295	294
31 DH - 27.5"		270	273	272	271
31 DH - 29"		289	292	290	289
37mm - 27.5"		275	276	275	274
37mm - 29"		294	296	294	293

I9 1 1 Hub (2020-present)					
MicroSpline, Centerlock					
Spokes: DT Swiss Competition Race, Standard, 2.0, Black, J-bend					
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm					
		Front Wheel		Rear Wheel	
		Non-Drive Side	Drive side	Non-Drive Side	Drive side
25mm - 29"		293	294	293	292
27mm - 27.5"		275	276	274	273
27mm - 29"		292	293	291	290
28 XC - 29"		288	290	289	285
30mm - 27.5"		271	272	272	271
30mm - 29" (2018-2019)		291	292	291	290
30mm V2 - 29" (2020 - present)		294	295	294	293
30 SL - 29"		296	297	296	295
30 HD - 27.5"		275	277	276	274
30 HD - 29"		294	296	295	294
31 DH - 27.5"		272	274	272	270
31 DH - 29"		291	293	292	289
37mm - 27.5"		275	277	275	274
37mm - 29"		295	297	295	294

Spoke Lengths

Reserve Mountain

Chris King					
XD or HG, 6-Bolt					
Spokes: DT Swiss Competition Race, Standard, 2.0, Black, J-bend					
Spoke Nipples: Sapim Secure Lock Aluminum, Double Square, 14g, 18mm					
		Front Wheel		Rear Wheel	
		Drive Side	Non-Drive Side	Drive Side	Non-Drive Side
25mm - 29"	293	294	294	292	
27mm - 27.5"	274	275	275	274	
27mm - 29"	292	292	292	291	
28 XC	286	286	286	285	
30mm - 27.5"	270	271	271	270	
30mm - 29"(2018-2019)	290	292	291	290	
30mm V2 - 29" (2020 - present)	293	293	293	293	
30 SL - 29"	295	295	295	295	
30 HD - 27.5"	275	275	275	275	
30 HD - 29"	294	294	294	294	
31 DH - 27.5"	270	270	270	270	
31 DH - 29"	287	287	287	286	
37mm - 27.5"	275	276	276	275	
37mm - 29"	294	295	295	294	
DH - 29"	290	290	290	290	