

Reserve Wheel Build Tech Sheet - Road				
<b>Overview</b>	-All DT Swiss hubs uses Sapim CX-Ray Aero straight pull spokes			
	-All Zipp hubs use Sapim CX-Delta J-bend spokes			
<b>Lacing</b>	-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			
<b>Spoke Freeze</b>	-When the wheel is complete, add one dot of DT Swiss 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			
<b>Truing</b>	-True sidestroke, hop, and dish to within 0.4mm			
	-Ensure that tension remains balanced			
	-Take precaution to minimize spoke winding when adding tension			
	-We recommend using the Park tool SW Series black color spoke wrench			
<b>Destress</b>	-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.			
<b>Final Spoke Tensions</b>	-Finished tight-side tension: 1000-1300N			
	-Finished loose-side tension: balance within 300N			
	-Tension readings and units vary between gauge types. Use your tension meter's conversion chart to convert Newtons to your gauges' units.			
Rim Model	Hub	Description	Disc Side (Sapim)	Drive Side (Sapim)
32	370 Rear	DT 370 142 Rear HG CL JB/Reserve 32 700c	290	286
32	370 Front	DT 370 100x12 Front CL SP/Reserve 32 700c	288	290
32	350 Rear	DT 350 142 Rear XDr CL SP Reserve 32 700c	290	286
32	350 Front	DT 350 100x12 Front CL SP/Reserve 32 700c	288	290
32	370 Rear	DT 370 142 Rear XDr CL SP Reserve 32 700c	290	286
32	350 Rear	DT 350 142 Rear HG CL SP/Reserve 32 700c	290	286
32	350 Rear	DT 350 142 N3W Rear CL SP Reserve 32 700c	290	286
32	Zipp ZR1 ST	Zipp ZR1 ST 142 HG CL JB Reserve 32 700c	280	274
32	Zipp ZR1 ST	Zipp ZR1 ST 142 XDr CL JB Reserve 32 700c	280	274
32	Zipp 76/176	Zipp 76/176 100x12 CL JB Reserve 32 700c	278	280
32	Zipp ZR1 ST	Zipp ZR1 ST 100x12 CL JB Reserve 32 700c	278	280
32	Zipp 76/176	Zipp 76/176 142 XDr CL JB Reserve 32 700c	279	277
32	Zipp 76/176	Zipp 76/176 142 HG CL JB Reserve 32 700c	279	277
34	370 Front	DT 370 100x12 Front CL SP  Reserve 34 700c	286	287
34	240 Front	DT 240 100x12 Front CL SP  Reserve 34 700c	286	287
34	DT 350 Front	DT 350 100x12 CL SP Reserve 34 700c	286	287
34	180 Front	DT 180 100x12 Front CL SP/Reserve 34 700c	285	286
34	Zipp 76/176	Zipp 76/176 100x12 CL JB  Reserve 34 700c	277	279
34	Zipp ZR1 SS	Zipp ZR1 SS 100x12 CL JB  Reserve 34 700c	277	279
35	370 Rear	DT 370 142 Rear XDr CL JB/Reserve 35 700c	285	282
35	370 Rear	DT 370 142 Rear HG CL JB/Reserve 35 700c	285	282
35	370 Front	DT 370 100x12 Front CL JB/Reserve 35 700c	284	285
35	350 Rear	DT 350 142 Rear XDr CL SP/Reserve 35 700c	285	282
35	350 Rear	DT 350 142 Rear HG CL SP/Reserve 35 700c	285	282
35	350 Front	DT 350 100x12 Front CL SP/Reserve 35 700c	284	285
35	180 Front	DT 180 100x12 Front CL SP/Reserve 35 700c	284	286
35	180 Rear	DT 180 142 Rear XDr CL SP/Reserve 35 700c	281	284
35	180 Rear	DT 180 142 Rear HG CL SP/Reserve 35 700c	281	284
35	240 Front	DT 240 100x12 Front CL SP/Reserve 35 700c	285	283
35	240 Rear	DT 240 142 Rear XDr CL SP/Reserve 35 700c	284	281
35	240 Rear	DT 240 142 Rear HG CL SP/Reserve 35 700c	284	281
37	370 Rear	DT 370 142 HG Rear CL SP   Reserve 37 700c	283	280

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37	370 Rear	DT 370 142 XDr Rear CL SP   Reserve 37 700c	283	280
37	240 Rear	DT 240 142 XDr Rear CL SP   Reserve 37 700c	283	280
37	240 Rear	DT 240 142 HG Rear CL SP   Reserve 37 700c	283	280
37	DT 350 Rear	DT 350 142 XDr Rear CL SP   Reserve 37 700c	283	280
37	DT 350 Rear	DT 350 142 HG Rear CL SP   Reserve 37 700c	283	280
37	180 Rear	DT 180 142 Rear XDr CL SP/Reserve 37 700c	283	280
37	180 Rear	DT 180 142 Rear HG CL SP/Reserve 37 700c	283	280
37	Zipp ZR1 SS	Zipp ZR1 SS 142 HG CL JB   Reserve 37 700c	275	269
37	Zipp ZR1 SS	Zipp ZR1 SS 142 XDr CL JB   Reserve 37 700c	275	269
37	Zipp 76/176	Zipp 76/176 142 XDr CL JB   Reserve 37 700c	274	272
37	Zipp 76/176	Zipp 76/176 142 HG CL JB   Reserve 37 700c	274	272
40	370 Front	DT 370 100x12 Front CL SP   Reserve 40 700c	279	280
40	350 Front	DT 350 100x12 Front CL SP   Reserve 40 700c	279	280
40	DT 240 Front	DT 240 100x12 Front CL SP   Reserve 40 700c	279	280
40	180 Front	DT 180 100x12 Front CL SP/Reserve 40 700c	279	280
40	Zipp ZR1 SS	Zipp ZR1 SS 100x12 CL JB   Reserve 40 700c	271	273
40	Zipp 76/176	Zipp 76/176 100x12 CL JB   Reserve 40 700c	271	273
40	Zipp ZR1 ST	Zipp ZR1 ST 100x12 CL JB   Reserve 40 700c	271	273
44	370 Rear	DT 370 142 HG Rear CL SP   Reserve 44 700c	276	272
44	370 Rear	DT 370 142 XDr Rear CL SP   Reserve 44 700c	276	272
44	350 Rear	DT 350 142 HG Rear CL SP   Reserve 44 700c	276	272
44	350 Rear	DT 350 142 XDr Rear CL SP   Reserve 44 700c	276	272
44	DT 240 Rear	DT 240 142 XDr Rear CL SP   Reserve 44 700c	276	272
44	DT 240 Rear	DT 240 142 HG Rear CL SP   Reserve 44 700c	276	272
44	180 Rear	DT 180 142 Rear XDr CL SP/Reserve 44 700c	276	272
44	180 Rear	DT 180 142 Rear HG CL SP/Reserve 44 700c	276	272
44	Zipp ZR1 SS	Zipp ZR1 SS 142 XDr CL JB   Reserve 44 700c	268	262
44	Zipp ZR1 ST	Zipp ZR1 ST 142 XDr CL JB   Reserve 44 700c	268	262
44	Zipp ZR1 ST	Zipp ZR1 ST 142 HG CL JB   Reserve 44 700c	268	262
44	Zipp 76/176	Zipp 76/176 142 XDr CL JB   Reserve 44 700c	267	265
44	Zipp 76/176	Zipp 76/176 142 HG CL JB   Reserve 44 700c	267	265
50	370 Rear	DT 370 142 Rear XDr CL SP/Reserve 50 700c	265	268
50	370 Rear	DT 370 142 Rear HG CL SP/Reserve 50 700c	265	268
50	370 Front	DT 370 100x12 Front CL SP/Reserve 50 700c	269	270
50	350 Rear	DT 350 142 Rear XDr CL SP/Reserve 50 700c	265	268
50	350 Rear	DT 350 142 Rear HG CL SP/Reserve 50 700c	265	268
50	350 Front	DT 350 100x12 Front CL SP/Reserve 50 700c	269	270
50	240 Front	DT 240 100x12 Front CL SP   Reserve 50 700c	267	269
50	240 Rear	DT 240 142 HG Rear CL SP   Reserve 50 700c	265	268
50	240 Rear	DT 240 142 XDr Rear CL SP   Reserve 50 700c	265	268
50	180 Front	DT 180 100x12 Front CL SP/Reserve 50 700c	268	270
50	180 Rear	DT 180 142 HG Rear CL SP/Reserve 50 700c	265	268
50	180 Rear	DT 180 142 XDr Rear CL SP/Reserve 50 700c	265	268
50	Zipp ZR1 ST	Zipp ZR1 ST 142 HG CL JB   Reserve 50 700c	260	254
50	Zipp ZR1 ST	Zipp ZR1 ST 142 XDr CL JB   Reserve 50 700c	260	254
50	Zipp 76/176	Zipp 76/176 142 HG CL JB   Reserve 50 700c	257	259
50	Zipp ZR1 SS	Zipp ZR1 SS 100x12 CL JB   Reserve 50 700c	259	261
50	Zipp 76/176	Zipp 76/176 100x12 CL JB   Reserve 50 700c	259	257
50	Zipp 76/176	Zipp 76/176 142 XDr CL JB   Reserve 50 700c	259	257
50	Zipp ZR1 ST	Zipp ZR1 ST 100x12 CL JB   Reserve 50 700c	259	261
52	DT 350	DT 350 100x12 Front CL SP   Reserve 52 700c	268	269
52	DT 240	DT 240 100x12 Front CL SP   Reserve 52 700c	267	269
52	180 Front	DT 180 100x12 Front CL SP   Reserve 52 700c	267	269
52	Zipp 76/176	Zipp 76/176 100x12 CL JB   Reserve 52 700c	256	258

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52	Zipp ZR1 ST	Zipp ZR1 ST 100x12 CL JB  Reserve 52 700c	258	260
52	Zipp ZR1 SS	Zipp ZR1 SS 100x12 CL JB  Reserve 52 700c	258	260
63	180 Rear	DT 180 142 HG Rear CL SP  Reserve 63 700c	257	254
63	180 Rear	DT 180 142 XDr Rear CL SP  Reserve 63 700c	257	254
63	240 Rear	DT 240 142 Rear XDR CL SP/Reserve 63 700c	257	254
63	240 Rear	DT 240 142 Rear HG CL SP/Reserve 63 700c	257	254
63	350 Rear	DT 350 142 Rear XDR CL SP/Reserve 63 700c	257	254
63	350 Rear	DT 350 142 Rear HG CL SP/Reserve 63 700c	257	254
63	Zipp ZR1 SS	Zipp ZR1 SS 142 XDr CL JB  Reserve 63 700c	247	244
63	Zipp ZR1 SS	Zipp ZR1 SS 142 HG CL JB  Reserve 63 700c	247	244
63	Zipp ZR1 ST	Zipp ZR1 ST 142 XDr CL JB  Reserve 63 700c	247	244
63	Zipp ZR1 ST	Zipp ZR1 ST 142 HG CL JB  Reserve 63 700c	247	244
65	240 Rear	DT 240 142 XDr Rear CL SP  Reserve 65 700c	256	252
65	240 Rear	DT 240 142 HG Rear CL SP  Reserve 65 700c	256	252
65	180 Rear	DT 180 142 Rear XDr CL SP/Reserve 65 700c	256	252
65	180 Rear	DT 180 142 Rear HG CL SP/Reserve 65 700c	256	252
65	350 Rear	DT 350 142 Rear XDr CL SP/Reserve 65 700c	256	252
65	350 Rear	DT 350 142 Rear HG CL SP/Reserve 65 700c	256	252
65	Zipp ZR1 SS	Zipp ZR1 SS 142 HG CL JB  Reserve 65 700c	246	240
65	Zipp ZR1 SS	Zipp ZR1 SS 142 XDr CL JB  Reserve 65 700c	246	240
65	Zipp ZR1 ST	Zipp ZR1 ST 142 XDr CL JB  Reserve 65 700c	246	240
65	Zipp 76/176	Zipp 76/176 142 XDr CL JB  Reserve 65 700c	245	243
77	DT 240 Front	DT 240 100x12 Front CL SP  Reserve 77 700c	242	244
77	DT 240 Front	DT 240 100x12 Front CL SP  Reserve 77 700c	242	244
88	DT Swiss	Any DT Swiss Straight Pull Hub	230	232
88	DT Swiss	Any DT Swiss Straight Pull Hub	230	232