

6480 SPLICED TREBLE DODGING MINOR (147 METHODS)
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After producing a composition of 7200 changes comprising the standard 178 methods, I thought I'd try to see if I could reduce the length of my previous composition of 7200 changes containing the standard 147 methods; the goal was to get all 147 methods into 6480 changes (the equivalent of nine extents).

Using techniques described in previous composition write-ups, I therefore sought a set of 54 full courses which between them contained every possible row nine times, and which could then be manipulated by various splicing techniques to incorporate the additional methods not already included in those 54 courses. As with previous compositions, this process was very lengthy but I eventually came up with something which I thought could work.

However the set of 54 courses were still missing some crucial methods which I couldn't find a way to include with previously-used splicing techniques, so I was forced into looking for some new splices and I found two in particular that helped me include the missing methods.

New Splice 1

The starting point for this splice is two courses of Cambridge S (in this example courses 23456 and 54326) and two courses of Willesden 4D (in this example 52436 and 34256). The rows from the 3-4 sections of each of these courses are shown below, each 3-4 section is assigned a code:

Cambridge LH 123456 624513 265431 C01 256413 <u>524631</u> 256431 524613 C02 542631 456213	Cambridge LH 156342 253416 524361 C03 542316 <u>453261</u> 542361 453216 C04 435261 342516	Cambridge LH 142635 546312 453621 C05 435612 <u>346521</u> 435621 346512 C06 364521 635412	Cambridge LH 135264 432615 346251 C07 364215 <u>632451</u> 364251 632415 C08 623451 264315	Cambridge LH 164523 365214 632541 C09 623514 <u>265341</u> 623541 265314 C10 256341 523614
Cambridge LH 154326 653214 562341 C11 526314 <u>253641</u> 526341 253614 C12 235641 326514	Cambridge LH 126435 524316 253461 C13 235416 <u>324561</u> 235461 324516 C14 342561 435216	Cambridge LH 135642 236415 324651 C15 342615 <u>436251</u> 342651 436215 C16 463251 642315	Cambridge LH 142563 345612 436521 C17 463512 <u>645321</u> 463521 645312 C18 654321 563412	Cambridge LH 163254 462513 645231 C19 654213 <u>562431</u> 654231 562413 C20 526431 254613
Willesden LH 152436 542613 452631 W01 546213 <u>456231</u> 542631 452613 W02 546231 456213	Willesden LH 145623 465312 645321 W03 463512 <u>643521</u> 465321 645312 W04 463521 643512	Willesden LH 164352 634215 364251 W05 632415 <u>362451</u> 634251 364215 W06 632451 362415	Willesden LH 136245 326514 236541 W07 325614 <u>235641</u> 326541 236514 W08 325641 235614	Willesden LH 123564 253416 523461 W09 254316 <u>524361</u> 253461 523416 W10 254361 524316
Willesden LH 134256 324615 234651 W11 326415 <u>236451</u> 324651 234615 W12 326451 236415	Willesden LH 123645 263514 623541 W13 265314 <u>625341</u> 263541 623514 W14 265341 625314	Willesden LH 162534 652413 562431 W15 654213 <u>564231</u> 652431 562413 W16 654231 564213	Willesden LH 156423 546312 456321 W17 543612 <u>453621</u> 546321 456312 W18 543621 453612	Willesden LH 145362 435216 345261 W19 432516 <u>342561</u> 435261 345216 W20 432561 342516

The 3-4 sections from these courses are re-sequenced to come up with a different set of leads, the original source for each 3-4 section can be determined by the appropriate code.

Ipswich LH 123456 624513 265431 C01 256413 <u>524631</u> 542361 453216 C04 435261 342516	Bourne LH 142635 546312 453621 W17 543612 <u>456321</u> 546231 452613 W02 542631 456213	Ipswich LH 156342 253416 524361 C03 542316 <u>453261</u> 435621 346512 C06 364521 635412	Cambridge LH 135264 432615 346251 C07 364215 <u>632451</u> 364251 632415 C08 623451 264315	Cambridge LH 164523 365214 632541 C09 623514 <u>265341</u> 623541 265314 C10 256341 523614
Ipswich LH 154326 653214 562341 C11 526314 <u>253641</u> 235461 324516 C14 342561 435216	Bourne LH 135642 236415 324651 W12 234615 <u>326451</u> 236541 325614 W07 235641 326514	Ipswich LH 126435 524316 253461 C13 235416 <u>324561</u> 342651 436215 C16 463251 642315	Cambridge LH 142563 345612 436521 C17 463512 <u>645321</u> 463521 645312 C18 654321 563412	Cambridge LH 163254 462513 645231 C19 654213 <u>562431</u> 654231 562413 C20 526431 254613
Marple LH 152436 542613 452631 W01 546213 <u>456231</u> 465321 645312 W04 463521 643512	Marple LH 164352 634215 364251 W05 632415 <u>362451</u> 326541 236514 W08 325641 235614	Willesden LH 123564 253416 523461 W09 254316 <u>524361</u> 253461 523416 W10 254361 524316	Marple LH 145623 465312 645321 W03 463512 <u>643521</u> 634251 364215 W06 632451 362415	Bedford LH 136245 326514 235641 C12 253614 <u>526341</u> 256431 524613 C02 542631 456213
Marple LH 134256 324615 234651 W11 326415 <u>236451</u> 263541 623514 W14 265341 625314	Marple LH 162534 652413 562431 W15 654213 <u>564231</u> 546321 456312 W18 543621 453612	Willesden LH 145362 435216 345261 W19 432516 <u>342561</u> 435261 345216 W20 432561 342516	Marple LH 123645 263514 623541 W13 265314 <u>625341</u> 652431 562413 W16 654231 564213	Bedford LH 156423 546312 453621 C05 435612 <u>346521</u> 436251 342615 C15 324651 236415

The original 3-4 sections of Cambridge S which have not been used for the new leads of Ipswich S and Cambridge S have been used for the leads of Bedford 4D instead, and the original 3-4 sections of Willesden 4D which have not been used for the new leads of Marple 4D and Willesden 4D have been used for the leads of Bourne S instead. We have thereby derived several additional methods from the original courses.

New Splice 2

My discovery of this splice was driven by a need to include a lead of Ely 3D in the composition, I already had a course of Evening Star 3D in the composition (these methods share the same underwork) so I thought there may be a way to use one of the leads from this course.

For all methods where the pivot bell passes the treble in 2-3, there is a related method with the same underwork and with an overwork of the same nature (by which I mean both methods have right-place overworks, or both have wrong-place overworks). These pairs of methods are as follows:

Durham S and Wearmouth S
York S and Lightfoot S
Burnaby 4D and Bedford 4D
Ely 3D and Evening Star 3D

Newcastle S and Wells S
Alnwick S and London S
Tintern 4D and Southwark 4D
Warwick 3D and Castleton 3D
Caernarvon 3D and Bucknall 3D
Quantock TB and Norton-le-Moors TB
Trinity Sunday TB and Pennine TB

I found that, by choosing the “right” leads, the central 20 rows of leads could be swapped to generate alternate methods. The example below starts with the lead 154326 of York S and 156342 of Evening Star 3D. The central 20 rows are swapped to produce leads of Ely 3D and Lightfoot S instead.

York S LH 154326	Evening Star 3D LH 156342	Ely 3D LH 154326	Lightfoot S LH 156342
154326	156342	154326	156342
513462	513624	513462	513624
153642	153642	153642	153642
516324	516324	516324	516324
561342	561234	561234	561342
653124	652143	652143	653124
651342	651234	651234	651342
563124	562143	562143	563124
653214	652413	652413	653214
635241	564231	564231	635241
362514	562413	562413	362514
326541	654231	654231	326541
236451	645321	645321	236451
263415	463512	463512	263415
624351	465321	465321	624351
642315	643512	643512	642315
462135	463152	463152	462135
641253	641325	641325	641253
642135	643152	643152	642135
461253	461325	461325	461253
416235	416235	416235	416235
142653	142653	142653	142653
412563	412635	412563	412635
145236	146253	145236	146253

Likewise, the following example below starts with the lead 135264 of Southwark 4D and 135642 of Trinity Sunday TB. The central 20 rows are swapped to produce leads of Pennine TB and Tintern 4D instead.

Southwark 4D LH 135264	Trinity Sunday TB LH 135642	Pennine TB LH 135264	Tintern 4D LH 135642
135264	135642	135264	135642
315624	315624	315624	315624
136542	136542	136542	136542
316452	316524	316524	316452
361425	361254	361254	361425
634152	632145	632145	634152
631425	631254	631254	631425
364152	362145	362145	364152
346512	326415	326415	346512
435621	234651	234651	435621
453612	324615	324615	453612
546321	236451	236451	546321
456231	326541	326541	456231
542613	235614	235614	542613
524631	325641	325641	524631
256413	236514	236514	256413
265143	263154	263154	265143
621534	621345	621345	621534
625143	623154	623154	625143
261534	261345	261345	261534
216543	216435	216435	216543
126453	126453	126453	126453
214635	214635	214635	214635
124365	124653	124365	124653

The selected 54 courses are outlined below. Annotation of the additional manipulations then follows on the next page, followed by explanations of those manipulations.

Course	Method	Cambridge-over	Norwich-over	London-over	Carlisle-over	Wilmslow-over	Oxford-over	Kent-over	Peveril-over	(a) Group 101 (Green)	(a) Group 102 (Blue)	(a) Group 103 (Yellow)	(a) Group 104 (Pink)	(a) Group 105 (Orange)	(a) Group 106 (Red)	(b) Group A, C, D	(b) Group F, G, O, Q	(b) Group E, I, N	(b) Group K, L	(b) Group J, M, S	(b) Group B, H, P, R	(c) Group 1 (A, J, K, N)	(c) Group 2 (B, D, F)	(c) Group 3 (C, E, L, S)	(c) Group 4 (G, M, P)	(c) Group 5 (H, I, O)	(c) Group 6 (Q, R)	
A	Cambridge S	A								A																	A	
B	Burnaby 4D	B									B					B								B				
C	Cambridge S	C								C							C										C	
D	Cambridge S	D								D							D										D	
E	Bourne S	E								E							E							E				
F	Burnaby 4D	F									F					F							F					
A	Alnwick S				A					A											A						A	
B	Carlisle S				B					B							B								B			
C	Northumberland S				C					C							C									C		
D	Tewkesbury 4D				D					D						D						D						
E	Carlisle S				E					E							E								E			
F	Carlisle S				F					F							F								F			
A	Wearmouth S	A									A						A						A					
B	Westminster S	B									B						B							B				
C	Lightfoot S	C									C						C						C					
D	Lightfoot S	D									D						D						D					
E	Westminster S	E									E						E						E					
F	Norwich S	F									F						F						F					
A	Old Oxford 4D	A									A						A										A	
B	Old Oxford 4D	B									B						B										B	
C	Marple 4D	C									C						C										C	
D	Bedford 4D	D									D						D						D					
E	Old Oxford 4D	E									E						E										E	
F	Old Oxford 4D	F									F						F										F	
A	Lincoln S		A							A						A							A					
B	Abbeyville 4D		B								B						B										B	
C	Cunecastre S		C								C						C						C					
D	Combermere 4D		D								D						D										D	
E	Lincoln S		E								E						E							E				
F	Southwark 4D		F								F						F							F				
A	Evening Star 3D						A					A							A			A						
B	Rochester TB						B					B							B			B						
C	Disley 3D						C					C							C					C				
D	Duke of Norfolk TB						D					D							D			D					D	
E	Duke of Norfolk TB						E					E							E			E					E	
F	Disley 3D						F					F							F					F				
A	Wilmslow 3D					A							A							A							A	
B	Chadkirk TB					B							B						B			B						
C	Dunedin 3D					C							C						C					C				
D	British Scholars' Pleasure TB					D							D						D			D					D	
E	Chadkirk TB					E							E						E			E					E	
F	Wilmslow 3D					F							F						F								F	
A	Caernarvon 3D							A						A	A								A					
B	Trinity Sunday TB							B					B						B					B				
C	Barham 3D							C						C					C			C					C	
D	Trinity Sunday TB							D					D						D					D				
E	Kent TB							E					E						E			E						
F	Barham 3D							F					F						F			F					F	
A	Stirling 3D								A										A					A				
B	Cotswold TB							B	B									B								B		
C	Chelsea 3D							C											C			C						
D	Cheviot TB							D	D										D					D				
E	Castleton 3D							E											E								E	
F	Pennine TB							F	F										F					F				
A		1	2	1	1	1	1	1	1	2	2	2	1	1	1	2	2	2	1	1	1	1	2	2	2	2	0	
B		1	2	1	1	1	1	1	1	2	2	2	1	1	1	2	2	2	1	1	1	1	2	2	2	2	0	
C		1	2	1	1	1	1	1	1	2	2	2	1	1	1	2	2	2	1	1	1	1	2	2	2	2	0	
D		1	2	1	1	1	1	1	1	2	2	2	1	1	1	2	2	2	1	1	1	1	2	2	2	2	0	
E		1	2	1	1	1	1	1	1	2	2	2	1	1	1	2	2	2	1	1	1	1	2	2	2	2	0	
F		1	2	1	1	1	1	1	1	2	2	2	1	1	1	2	2	2	1	1	1	1	2	2	2	2	0	

D				B				A				C				F				E			
42356	Cm	Su	27	54326	Bu			34256	Cm			52436	Cm	Su	27	23456	Bu			53246	Bo	Ki	29
56234	Cm	Bs	28	42563	Bu	Du	10	56423	Cm			36245	Cm	Bs	28	35264	Bu	Ey	11	62453	Bo		
34625	Cm	Ip	2	26435	Bu	Yo	40	23645	Cm	Bv	26	45623	Cm			56342	Bu			34562	Bo		
63542	Cm	Bo>Ki	2>29	63254	Bu			45362	Cm			23564	Cm	Bv	26	64523	Bu	Yo	12	25634	Bo		
25463	Cm	Ip	2	35642	Bu			62534	Cm	Su	27	64352	Cm			42635	Bu			46325	Bo		
42356				54326				34256				52436				23456				53246			
53426	Te			32456	Cl			52346	Ak			43256	Nb	Fo	36	54236	Cl	Gl	28	24356	Cl	Gl	28
45632	Te	Sa	31	25364	Cl			63452	Ak	Ti	13	56324	Nb			43562	Cl	Mu	27	45263	Cl		
64253	Te			56243	Cl	Ch	26	24563	Ak	Nw	15	24635	Nb			36425	Cl			56432	Cl		
26345	Te	Sa	30	64532	Cl			35624	Ak	Nw	14	35462	Nb			62354	Cl			63524	Cl		
32564	Te			43625	Cl			46235	Ak			62543	Nb	Fo	37	25643	Cl	Ch	26	32645	Cl		
53426				32456				52346				43256				54236				24356			
42356	Lf			54326	Ws	Ws	1	34256	Wm	OI>EI	3>18	52436	Lf	Wk	9	23456	No			53246	Po		
56234	Lf			42563	Ws	Ma	1	23645	Wm	Wm>Be	3>10	45623	Lf	Wk	9	42635	No			25634	Po		
34625	Lf	Wm	4	35642	Ws	OI	1	45362	Wm	Ws	3	64352	Lf	Wk	9	64523	No			62453	Po		
25463	Lf	Be	40	63254	Ws	OI	1	56423	Wm	Ws	3	36245	Lf	Wk>Ox	9>39	56342	No	Wk	32	46325	Po		
63542	Lf	Be	12	26435	Ws	Ma>Ta	1>7	62534	Wm	Wm>Lf	3>7	23564	Lf	Wk	9	35264	No			34562	Po		
42356				54326				34256				52436				23456				53246	Po		
42356	Be			63254	OI	Ws	1	34256	OI	Wm>Lf	3>41	52436	Ma	Ta>OI	4>9	23456	OI	Bm	17	53246	OI	Ma	2
56234	Be			35642	OI	Ws	1	56423	OI	Ma>Wm	2>3	45623	Ma	Ta>OI	5>9	42635	OI			62453	OI	Bm	17
34625	Be			54326	OI	Ma>Ne	1>24	23645	OI	Ma>Ws	2>3	64352	Ma	Ta>OI>Bm	6>9>17	64523	OI			46325	OI	Ma	2
25463	Be			42563	OI	Ws	1	45362	OI	Be	2	36245	Ma	Ta>OI>EI	8>9>18	56342	OI			25634	OI	Be	2
63542	Be			26435	OI	OI	1	62534	OI	Ma>Ta	2>15	23564	Ma	Ta>OI	7>9	35264	OI	EI	18	34562	OI	Ma>Ta>Ne	2>19>25
42356				42563				62534				52436				23456				25634			
53426	Ce			32456	Av	Av>Ca	1>6	52346	Li	Av>Ca	3>14	43256	Cu			54236	So	Pn	20	24356	Li		
64253	Ce			25364	Av	Li>Pv	1>16	24563	Li	Li>Pv	3>16	35462	Cu			25643	So	Lo	13	56432	Li		
32564	Ce	Ke	17	64532	Av	Av	1	63452	Li	We	3	56324	Cu			62354	So			32645	Li		
45632	Ce			43625	Av	Ce	1	46235	Li	Li	3	62543	Cu			36425	So			45263	Li		
26345	Ce			56243	Av	Ce	1	35624	Li	Av	3	24635	Cu			43562	So	Pn	21	63524	Li	Pv	16
53426				32456				52346				43256				54236				24356			
42356	Dk			54326	Rc			34256	Es	Be	11	52436	Di	Ms	29	23456	Di			53246	Dk		
63542	Dk	Cn	17	35642	Rc			56423	Es			23564	Di	Ms	30	35264	Di			62453	Dk		
25463	Dk			63254	Rc			23645	Es			36245	Di			56342	Di			34562	Dk	Cn	17
34625	Dk			26435	Rc			45362	Es			64352	Di			64523	Di	Ms	31	25634	Dk		
56234	Dk			42563	Rc			62534	Es			45623	Di			42635	Di			46325	Dk		
42356				54326				34256				52436				23456				53246			
42356	Bp			54326	Cj			34256	WI			52436	Dn	Bl>Do	9>32	23456	WI			53246	Cj	Fr	36
63542	Bp			26435	Cj			62534	WI			45623	Dn	Bl	9	64523	WI	Dn	35	46325	Cj		
25463	Bp	Dn	33	35642	Cj			45362	WI			64352	Dn	Bl	9	35264	WI			25634	Cj		
34625	Bp			42563	Cj	Fr	37	23645	WI	Dn	34	36245	Dn	Bl	9	42635	WI			34562	Cj		
56234	Bp			63254	Cj			56423	WI			23564	Dn	Bl	9	56342	WI			62453	Cj		
42356				54326				34256				52436				23456				53246			

53426	Tr			32456	Tr	Qu	22	52346	Cz			43256	Bh	Pm	26	54236	Bh			24356	Kt		
64253	Tr	Qu	22	64532	Tr			63452	Cz	Ww	41	56324	Bh	Bw	28	36425	Bh	Bw	28	32645	Kt	Ox>Wk	38>39
32564	Tr			25364	Tr			24563	Cz	Ww	19	24635	Bh			25643	Bh			63524	Kt		
45632	Tr	Ww	23	43625	Tr	Ti	21	35624	Cz	Ww	5	35462	Bh			43562	Bh	Pm	26	56432	Kt		
26345	Tr	Ti	20	56243	Tr			46235	Cz			62543	Bh	By	27	62354	Bh	By	27	45263	Kt		
53426				32456				52346				43256				54236				24356			
53426	C3			32456	C1	Pn	2	52346	Sg	C3	24	43256	Cc			54236	Pn			24356	Cx	Bn	8
64253	C3	C2	6	43625	C1	Mp	2	63452	Sg			56324	Cc	Pv	34	25643	Pn			32645	Cx		
32564	C3			25364	C1			24563	Sg	C2	25	24635	Cc	Mp	33	62354	Pn	Nm	22	63524	Cx		
45632	C3			56243	C1			35624	Sg			35462	Cc	Pv	35	36425	Pn			56432	Cx		
26345	C3	C2	8	64532	C1	Mp	2	46235	Sg			62543	Cc			43562	Pn			45263	Cx	Pn	23
53426				32456				52346				43256				54236				24356			

1	<p>To obtain additional leads of Peveril 3D I wanted to use a 3-lead splice on leads of Lincoln S (with bells 2 and 5 fixed) but there were only 2 courses of Lincoln S in the composition. I therefore borrowed one of the leads of Westminster S by reconstructing the following 3 courses (each 3-4 section is given a code letter to show where it appears in the reconstructed courses):</p> <p style="text-align: center;">Before</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">54326 Ws A</td> <td style="width: 33%;">54326 Ol F</td> <td style="width: 33%;">32456 Av K</td> </tr> <tr> <td>42563 Ws B</td> <td>35642 Ol G</td> <td>25364 Av L</td> </tr> <tr> <td>26435 Ws C</td> <td>63254 Ol H</td> <td>56243 Av M</td> </tr> <tr> <td>63254 Ws D</td> <td>26435 Ol I</td> <td>64532 Av N</td> </tr> <tr> <td>35642 Ws E</td> <td>42563 Ol J</td> <td>43625 Av O</td> </tr> <tr> <td>54326</td> <td>54326</td> <td>32456</td> </tr> </table> <p style="text-align: center;">After</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">54326 Ws A</td> <td style="width: 33%;">54326 Ma M</td> <td style="width: 33%;">32456 Av K</td> </tr> <tr> <td>42563 Ma O</td> <td>63254 Ws D</td> <td>25364 Li C</td> </tr> <tr> <td>35642 Ol G</td> <td>35642 Ws E</td> <td>64532 Av N</td> </tr> <tr> <td>63254 Ol H</td> <td>54326</td> <td>43625 Ce J</td> </tr> <tr> <td>26435 Ma L</td> <td></td> <td>56243 Ce F</td> </tr> <tr> <td>54326</td> <td>42563 Ws B</td> <td>32456</td> </tr> <tr> <td></td> <td>26435 Ol I</td> <td></td> </tr> <tr> <td></td> <td>42563</td> <td></td> </tr> </table> <p>I now had an extra lead of Lincoln S which could be used for the 3-lead splice.</p>	54326 Ws A	54326 Ol F	32456 Av K	42563 Ws B	35642 Ol G	25364 Av L	26435 Ws C	63254 Ol H	56243 Av M	63254 Ws D	26435 Ol I	64532 Av N	35642 Ws E	42563 Ol J	43625 Av O	54326	54326	32456	54326 Ws A	54326 Ma M	32456 Av K	42563 Ma O	63254 Ws D	25364 Li C	35642 Ol G	35642 Ws E	64532 Av N	63254 Ol H	54326	43625 Ce J	26435 Ma L		56243 Ce F	54326	42563 Ws B	32456		26435 Ol I			42563	
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54326	42563 Ws B	32456																																									
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2	<p>This is where “New Splice 1” was applied, the starting courses being course 42356 of Cambridge S, course 32456 of Cotswold TB (which contains the same rows in the 3-4 sections as course 54326 of Cambridge S), and courses 34256 and 53246 of Old Oxford 4D. Once “New Splice 1” was applied, the course of Cambridge S became a course of Ipswich S, Bourne S and Cambridge S; the course of Cotswold TB became a course of Mendip TB, Pennine TB and Cotswold TB; and the courses of Old Oxford 4D became courses of Marple 4D, Bedford 4D and Old Oxford 4D.</p>																																										

3	<p>Similar to point 1 above, the following 3 courses were reconstructed to split some of the underworks between the different overworks:</p> <p style="text-align: center;">Before</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">34256 Wm A</td> <td style="width: 33%;">34256 Ol F</td> <td style="width: 33%;">52346 Li K</td> </tr> <tr> <td>56423 Wm B</td> <td>23645 Ma G</td> <td>46235 Li L</td> </tr> <tr> <td>23645 Wm C</td> <td>56423 Ma H</td> <td>35624 Li M</td> </tr> <tr> <td>45362 Wm D</td> <td>34256</td> <td>24563 Li N</td> </tr> <tr> <td>62534 Wm E</td> <td></td> <td>63452 Li O</td> </tr> <tr> <td>34256</td> <td>45362 Be I</td> <td>52346</td> </tr> <tr> <td></td> <td>62534 Ma J</td> <td></td> </tr> <tr> <td></td> <td>45362</td> <td></td> </tr> </table> <p style="text-align: center;">After</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">34256 Ol F</td> <td style="width: 33%;">34256 Wm A</td> <td style="width: 33%;">52346 Av G</td> </tr> <tr> <td>23645 Wm C</td> <td>56423 Wm B</td> <td>24563 Li N</td> </tr> <tr> <td>45362 Ws K</td> <td>23645 Ws M</td> <td>63452 We D</td> </tr> <tr> <td>56423 Ws O</td> <td>34256</td> <td>46235 Li L</td> </tr> <tr> <td>62534 Wm E</td> <td></td> <td>35624 Av H</td> </tr> <tr> <td>34256</td> <td>45362 Be I</td> <td>52346</td> </tr> <tr> <td></td> <td>62534 Ma J</td> <td></td> </tr> <tr> <td></td> <td>45362</td> <td></td> </tr> </table>	34256 Wm A	34256 Ol F	52346 Li K	56423 Wm B	23645 Ma G	46235 Li L	23645 Wm C	56423 Ma H	35624 Li M	45362 Wm D	34256	24563 Li N	62534 Wm E		63452 Li O	34256	45362 Be I	52346		62534 Ma J			45362		34256 Ol F	34256 Wm A	52346 Av G	23645 Wm C	56423 Wm B	24563 Li N	45362 Ws K	23645 Ws M	63452 We D	56423 Ws O	34256	46235 Li L	62534 Wm E		35624 Av H	34256	45362 Be I	52346		62534 Ma J			45362	
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4	The central 2 rows of lead 34625 of Lightfoot S are swapped with those from lead 52436 of Marple 4D giving leads of Wearmouth S and Taxal 4D.																																																
5	The central 2 rows of lead 35624 of Caernarvon 3D are swapped with those from lead 45623 of Marple 4D giving leads of Wearmouth S and Taxal 4D.																																																
6	Leads 64352 of Marple 4D, 64253 of Cheviot TB and 32456 of Abbeyville 4D have a 3-lead splice applied (bells 4 and 5 fixed) to give Taxal 4D, Chiltern TB and Canterbury 4D.																																																
7	Leads 23564 and 26435 of Marple 4D, and lead 62534 of Wearmouth S have a 3-lead splice applied (bells 3 and 6 fixed) to give two leads of Taxal 4D and one of Lightfoot S.																																																
8	Leads 36245 of Marple 4D, 26345 of Cheviot TB and 24356 of Castleton 3D have a 3-lead splice applied (bells 4 and 6 fixed) to give Taxal 4D, Chiltern TB and Bucknall 3D.																																																
9	As a result of the splices outlined in points 4-8 above, all 5 leads from the original course 52436 of Marple 4D have been changed to Taxal 4D. A three-course splice (explained in previous documents) is then applied to this course of Taxal 4D, plus the courses 52436 of Lightfoot S and Dunedin 3D, which results in courses of Old Oxford 4D, Warkworth S and Belvoir 3D instead. This is a crucial splice as it bring in the missing methods Warkworth S and Belvoir 3D. Very careful selection of courses was required to ensure the appropriate splices described in points 4-9 could be achieved.																																																
10	The 5-6 sections of lead 42563 of Burnaby 4D and lead 23645 of Wearmouth S are swapped giving leads of Durham S and Bedford 4D.																																																
11	An instance of "New Splice 2", the central 20 rows of lead 35264 of Burnaby 4D are swapped with the central 20 rows of lead 34256 of Evening Star 3D giving leads of Ely 3D and Bedford 4D.																																																

12	The 5-6 sections of lead 64523 of Burnaby 4D and lead 63542 of Lightfoot S are swapped giving leads of York S and Bedford 4D.
13	The 5-6 sections of lead 63452 of Alnwick S and lead 25643 of Southwark 4D are swapped giving leads of Tintern 4D and London S.
14	The central 2 rows of lead 35624 of Alnwick S are swapped with those from lead 52346 of Abbeyville 4D giving leads of Newcastle S and Canterbury 4D.
15	The central 2 rows of lead 24563 of Alnwick S are swapped with those from lead 62534 of Marple 4D giving leads of Newcastle S and Taxal 4D.
16	A three-lead splice is applied to leads 25364, 24563 and 63524 of Lincoln S (bells 2 and 6 fixed) giving 3 leads of Peveril 3D instead.
17	Leads 64352, 23456 and 62453 of Old Oxford 4D, and lead 32564 of Combermere 4D, and leads 63542 and 34562 of Duke of Norfolk TB have a 6-lead splice applied (bell 5 fixed) to give Bamborough S, Kelso S and Conisborough 3D.
18	A three-lead splice is applied to leads 34256, 36245 and 35264 of Old Oxford 4D (bells 2 and 3 fixed) giving 3 leads of Elston 4D instead.
19	The central 2 rows of lead 34562 of Marple 4D are swapped with those from lead 24563 of Caernarvon 3D giving leads of Taxal 4D and Warwick 3D.
20	An instance of "New Splice 2", the central 20 rows of lead 54236 of Southwark 4D are swapped with the central 20 rows of lead 26345 of Trinity Sunday TB giving leads of Pennine TB and Tintern 4D. This splice was subsequently found not to be required so was reversed.
21	An instance of "New Splice 2", the central 20 rows of lead 43562 of Southwark 4D are swapped with the central 20 rows of lead 43625 of Trinity Sunday TB giving leads of Pennine TB and Tintern 4D.
22	Leads 64253 and 32456 of Trinity Sunday TB, and lead 62354 of Pennine TB have a 3-lead splice applied (bells 3 and 6 "fixed") to give Quantock TB and Norton-le-Moors TB.
23	The 5-6 sections of lead 45632 of Trinity Sunday TB and lead 45263 of Castleton 3D are swapped giving leads of Warwick 3D and Pennine TB.
24	The 5-6 sections of lead 54326 of Marple 4D and lead 52346 of Stirling 3D are swapped giving leads of Netherseale S and Cheviot TB.
25	The 5-6 sections of lead 34562 of Taxal 4D and lead 24563 of Stirling 3D are swapped giving leads of Netherseale S and Chiltern TB.
26	Leads 23645 and 23564 of Cambridge S, and leads 56243 and 25643 of Carlisle S, and leads 43256 and 43562 of Barham 3D have a 6-lead splice applied (bell 3 fixed) to give Beverley S, Chester S and Pembroke 3D.
27	Leads 42356, 62534 and 52436 of Cambridge S, and lead 43562 Carlisle S, and leads 62543 and 62354 of Barham 3D have a 6-lead splice applied (bell 2 fixed) to give Surfleet S, Munden S and Berkeley 3D.

28	Leads 56234 and 36245 of Cambridge S, and leads 54236 and 24356 of Carlisle S, and leads 56324 and 36425 of Barham 3D have a 6-lead splice applied (bell 6 fixed) to give Burslem 4D, Glastonbury 4D and Berwyn TB.
29	Leads 63542 and 53246 of Bourne S, and lead 52436 of Disley 3D have a 3-lead splice applied (bells 3 and 4 fixed) to give two leads of Kirkstall 4D and one of Morning Star TB.
30	The 5-6 sections of lead 26345 of Tewkesbury 4D and lead 23564 of Disley 3D are swapped giving leads of Sandiacre S and Morning Star TB.
31	The 5-6 sections of lead 45632 of Tewkesbury 4D and lead 64523 of Disley 3D are swapped giving leads of Sandiacre S and Morning Star TB.
32	The 5-6 sections of lead 56342 of Norwich S and lead 52436 of Belvoir 3D are swapped giving leads of Warkworth S and Dover 3D.
33	The 5-6 sections of lead 25463 of British Scholars' Pleasure TB and lead 24635 of Chelsea 3D are swapped giving leads of Dunedin 3D and Mendip TB.
34	The 5-6 sections of lead 23645 of Wilmslow 3D and lead 56324 of Chelsea 3D are swapped giving leads of Dunedin 3D and Peveril 3D.
35	The 5-6 sections of lead 64523 of Wilmslow 3D and lead 35462 of Chelsea 3D are swapped giving leads of Dunedin 3D and Peveril 3D.
36	The 5-6 sections of lead 43256 of Northumberland S and lead 53246 of Chadkirk TB are swapped giving leads of Fountains 4D and Francis Genius 3D.
37	The 5-6 sections of lead 62543 of Northumberland S and lead 42563 of Chadkirk TB are swapped giving leads of Fountains 4D and Francis Genius 3D.
38	Lead 32645 of Kent TB is rung instead as lead 36245 of Oxford TB (these 2 leads contain the same rows).
39	Lead 36245 of Oxford TB is swapped with lead 36245 of Warkworth S to ensure a plain lead of Oxford TB can be rung.
40	The 5-6 sections of lead 26435 of Burnaby 4D and lead 25463 of Lightfoot S are swapped giving leads of York S and Bedford 4D.
41	The central 2 rows of lead 34256 of Wearmouth S are swapped with those from lead 25436 of Caernarvon 3D giving leads of Lightfoot S and Warwick 3D.

The final composition has been rotated and effectively starts from row 142356.