

Lin Second Block + SBEC (SB Equator Control), algs and images by Marco Syfrig

This document contains all Second Block (SB) cases for the Lin Square-1 method. Second Block Equator Control (SBEC) is a method developed by Helmer Ewert to always solve the second block in a way that the equator will be correct after the SB is solved.

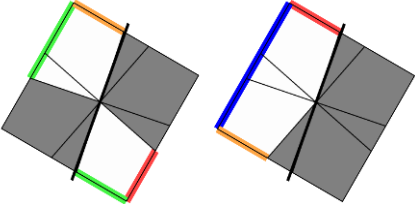
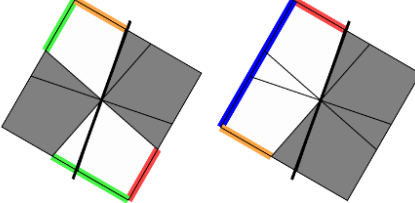
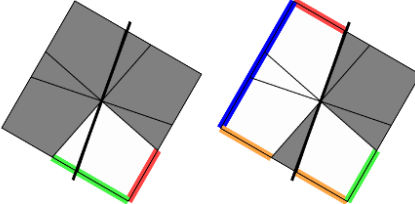
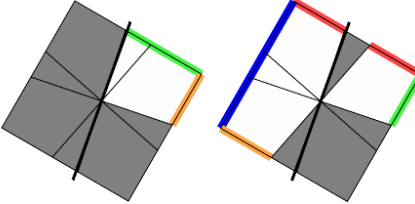
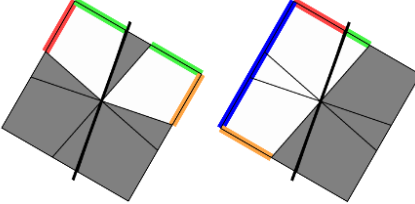
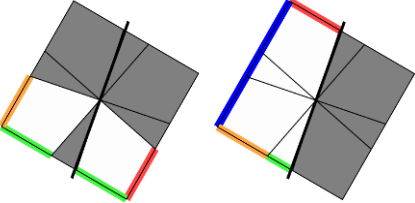
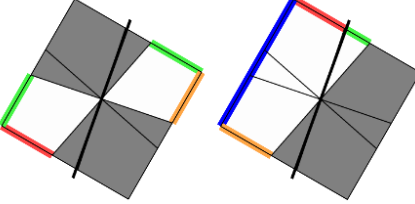
This document lists two algs for each case. One with an even number of slashes (left column) for when the equator is correct already after the First Block (FB). The right column shows the alg with an odd number of slashes for when the equator is flipped after the FB. The extra column for each algorithm shows the number of slashes.

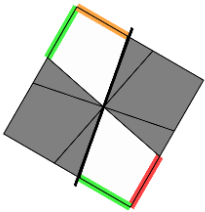
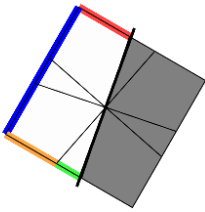
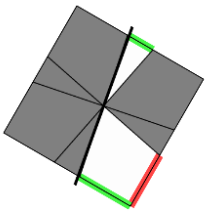
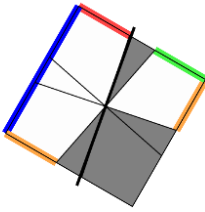
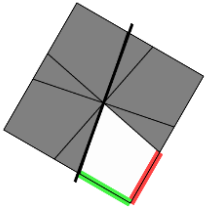
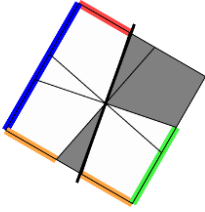
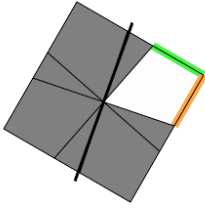
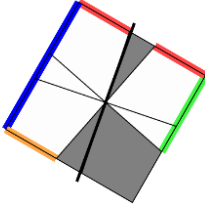
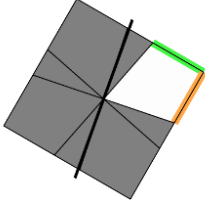
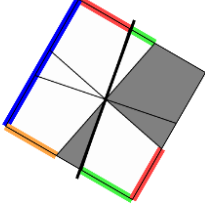
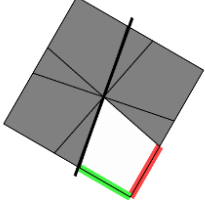
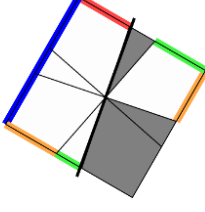
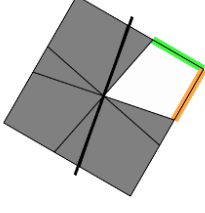
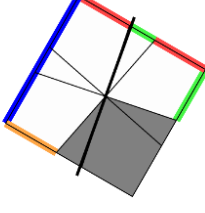
The optimal (shorter) alg for the case has a **bold** number of slashes.

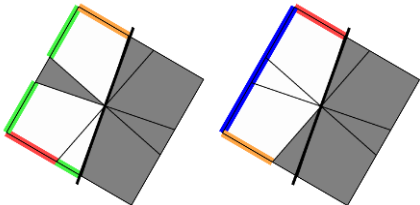
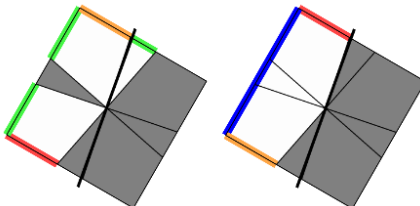
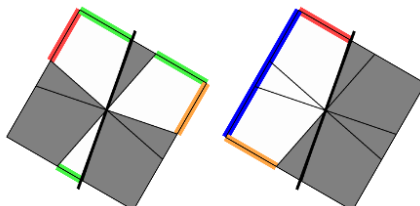
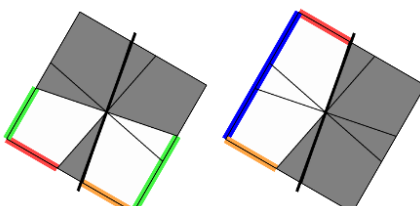
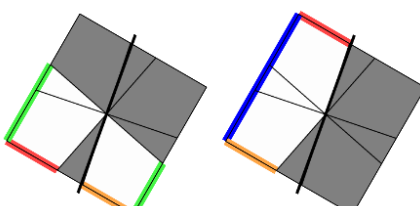
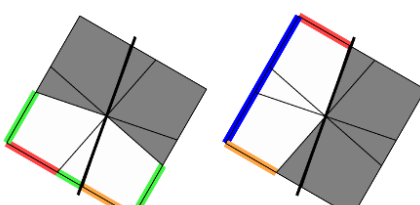
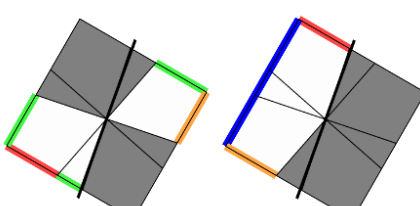
All algs end with a misaligned top layer again. However, be aware that you can always misalign the bottom layer to bring down the SB to get a better DB edge.

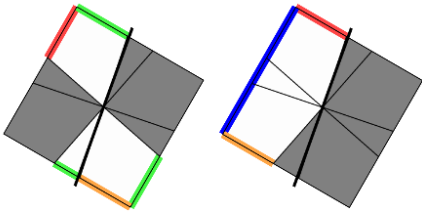
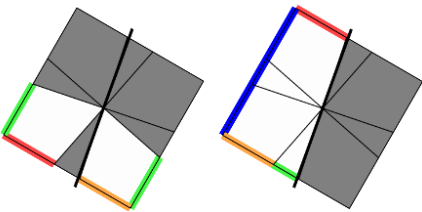
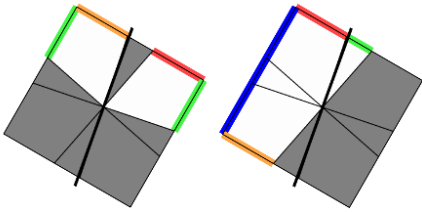
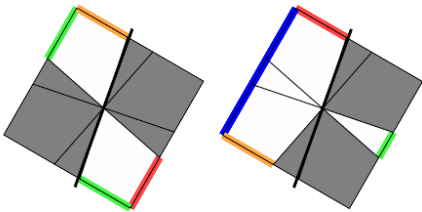
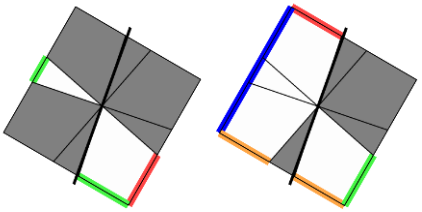
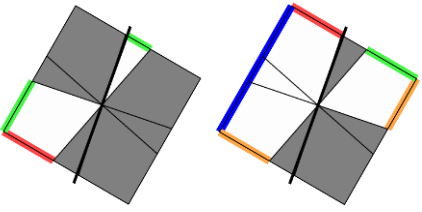
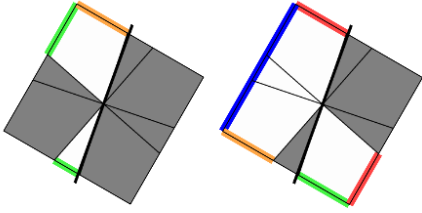
Order: Optimal number of slashes, number of SB pieces (green) on top, number of correctly connected pieces, headlights, then the rest.

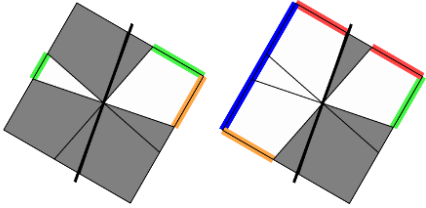
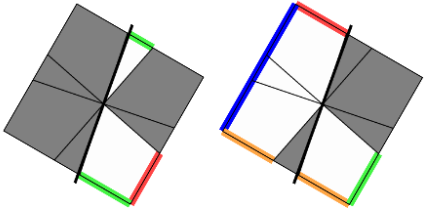
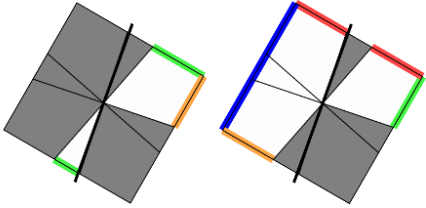
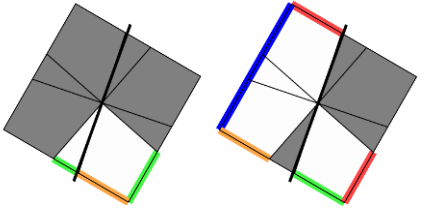
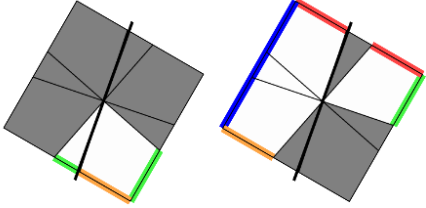
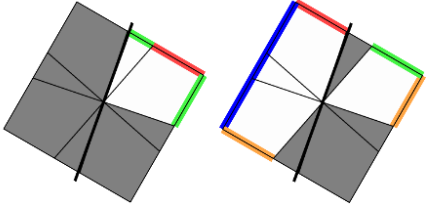
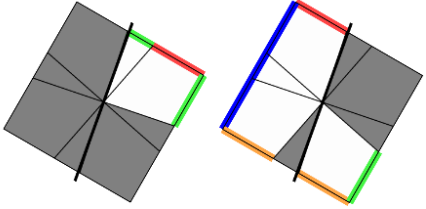
No	Image	Good Equator (even # slashes)	Flipped Equator (odd # slashes)	
1		6,0/6,0/	2 /	1
2		<i>/3,0/</i>	2 /3,0/6,0/	3
3		-1,-1/4,1/	2 -1,-1/-2,1/6,0/	3
4		<i>/3,0/</i>	2 /-3,0/6,0/	3
5		-1,-1/-2,1/	2 -1,-1/4,1/6,0/	3

	$/-3,0/3,0/6,0/$	4	$/-3,0/-3,0/$	3
	$-1,-1/-3,0/4,1/6,0/$	4	$-1,-1/-3,0/-2,1/$	3
	$-1,-1/3,0/4,1/6,0/$ Alternative: $5,-1/-2,1/2,-1/4,1/$	4	$-1,-1/3,0/-2,1/$	3
	$3,0/3,0/3,0/-3,0/$	4	$/-3,0/3,0/$	3
	$/-1,-1/-2,1/6,0/$	4	$/-1,-1/4,1/$	3
	$/-1,-1/4,1/-6,0/$	4	$/-1,-1/-2,1/$	3
	$3,0/5,-1/3,0/-2,1/$	4	$-1,-1/4,1/3,0/$	3

 	$3,0/-3,0/5,-1/-2,1/$	4	$/-4,-1/-2,1/$	3
 	$/-1,-1/-5,1/3,0/$	4	$-1,-1/-5,1/-3,0/$	3
 	$6,0/-3,0/3,0/3,0/$	4	$/3,0/-3,0/$	3
 	$6,0/2,-1/-3,0/-2,1/$	4	$/-4,-1/4,1/$	3
 	$5,-1/6,0/1,1/3,0/$ Create HLs with the corners and leave the edge on D, then bring it up with M2.	4	$-1,-1/-5,1/3,0/$	3
 	$6,0/-6,0/-1,-1/-2,1/$ Create HLs with the corners and leave the edge on D, then bring it up with M2.	4	$/5,-1/-2,1/$	3
 	$-1,-1/-2,1/-3,0/6,0/$ Alternative: $6,0/6,0/-4,-1/-2,1/$	4	$-1,-1/-2,1/3,0/$	3

		$-1,-1/-2,1/-1,-1/-2,1/$	4 $/-1,-1/-2,1/-1,-1/-2,1/$ Bring edge down with M2	5
		$/3,0/-1,-1/4,1/$	4 $/-1,-1/3,0/1,1/3,0/$ Bring edge down with M2	5
		$-1,-1/-5,1/5,-1/-2,1/$	4 $/-1,-1/-6,0/1,1/-3,0/$ Bring edge down with M2, U2 and then M2 again	5
		$/-3,0/3,0/-3,0/$ Also easy from the back.	4 $/-3,0/3,0/3,0/6,0/$ Alternative: $/3,0/-3,0/3,0/3,0/$	5
		$/-4,-1/3,0/-2,1/$ Also easy from the back.	4 $/-4,-1/3,0/4,1/6,0/$ Alternative: $/2,-1/-3,0/3,0/4,1/$	5
		$-1,-1/-2,1/2,1/-2,1/$	4	5
		$-1,-1/-2,1/5,-1/-2,1/$	4 $-1,-1/4,1/6,0/-1,-1/-2,1/$ Connect the corners as HLs in the back and bring up the edge with an M2	5

	$-1,-1/-5,1/2,-1/-2,1/$	4	$-5,0/-4,-1/6,0/1,1/3,0/$ Connect the corners as HLs and bring up the edge with an M2	5
	$/-3,0/2,-1/-2,1/$	4	$2,-1/-2,1/-3,0/3,0/-3,0/$ Look out for the DF edge after the first slash. If it's at UL then do $-3,0/$ (leave the bottom misaligned) to bring it to DF.	5
	$-1,-1/3,0/-2,1/3,0/$	4	$-3,0/-3,0/-4,-1/3,0/-2,1/$ Connect edge to UBL corner on top. Alternative with corners in front: $5,-1/4,1/-3,0/-2,1/4,1/$	5
	$/3,0/5,-1/4,1/$	4	$/-3,0/6,0/-1,-1/4,1/$	5
	$/-3,0/5,-1/4,1/$	4	$-4,-1/3,0/4,-1/-3,0/-3,0/$	5
	$/-1,-1/4,1/3,0/$ Connect D corner fist with edge	4	$-3,0/-3,0/-1,-1/-3,0/-2,1$ Connect UFL corner first with the edge on top.	5
	$/-1,-1/-3,0/-2,1/$	4	$3,0/2,-1/1,1/3,0/3,0/$	5

	$/2,-1/-5,1/-3,0/$	4	$3,0/-3,0/-3,0/2,-1/4,1/$	5
	$/-4,-1/-5,1/3,0/$	4	$/2,-1/6,0/1,1/3,0/$ Connect the two corners to HLs and then bring up the edge with an M2.	5
	$-1,-1/4,1/5,-1/-2,1/$	4	$-1,-1/-2,1/6,0/-1,-1/-2,1/$	5
	$/-1,-1/3,0/-2,1/$	4	$3,0/3,0/3,0/-1,-1/4,1/$ Alternative: $6,0/2,-1/4,1/3,0/$	5
	$-1,-1/4,1/2,-1/-2,1/$	4	$-1,-1/4,1/2,-1/4,1/-6,0/$ Alternative: $6,0/-1,-1/3,0/-2,1/3,0/$	5
	$/-1,-1/-2,1/3,0/$	4	$-3,0/-4,-1/-3,0/1,1/-3,0/$	5
	$/-4,-1/-2,1/3,0/$	4	$/-4,-1/-2,1/-3,0/6,0/$	5

	$-1,-1/3,0/1,1/-3,0/$	4	$-1,-1/3,0/1,1/3,0/6,0/$	5
	$/-3,0/-1,-1/4,1/$	4	$/-3,0/-1,-1/-2,1/6,0/$	5
	$-1,-1/4,1/-3,0/-3,0/$ Alternative: $-3,0/3,0/2,-1/-2,1/$	4	$-1,-1/4,1/-3,0/3,0/6,0/$	5
	$/-3,0/2,-1/4,1/$ Alternative: $5,-1/-3,0/-5,1/3,0/$	4	$5,-1/3,0/6,0/1,1/3,0/$ Connect corners to HLs and bring edge up with M2	5

	$3,0/-3,0/3,0/-4,-1/3,0/-2,1/$	6	$-1,-1/-3,0/4,1/-3,0/-3,0/$	5
	$3,0/-3,0/-1,-1/6,0/1,1/3,0/$ $U / U' / M2 / U2 / M2 / U' /$ Alternative: $-3,0/3,0/3,0/-4,-1/3,0/-2,1/$	6	$/3,0/-1,-1/-3,0/-2,1/$ Alternative: $/2,-1/1,1/-4,-1/-2,1/$	5
	$-3,0/3,0/3,0/-4,-1/3,0/-2,1/$	6	$/2,-1/-5,1/-4,-1/-2,1/$	5

		$-3,0/-1,-1/3,0/1,1/3,0/$ Bring down the edge with M2	6 $-3,0/3,0/-1,-1/4,1/$ Alternative: $6,0/2,-1/1,1/2,-1/-2,1/$	5
		$/3,0/-1,-1/-2,1/-1,-1/-2,1/$ Bring down the edge with M2	6 $/2,-1/-3,0/1,1/-3,0/$ Alternative: $6,0/2,-1/-2,1/-4,-1/-2,1/$	5
		$-1,-3/-3,0/3,3/0,-3/1,3$ This is a special case, optimal is 4 when you just do D' and then J/J. But when you follow the rule, that the D layer cannot be moved, 5 would be optimal. Might be bad for the DB edge though. Alternative 6 slice: $/3,0/-3,0/3,0/3,0/6,0/$	4 / 6 $/3,0/-3,0/3,0/-3,0/$ N/J alg. Doesn't matter if top is misaligned or not	5
		$-3,0/3,0/2,-1/-5,1/-4,-1/-2,1/$	6 $/3,0/-4,-1/3,0/-2,1/$	5
		$-1,-4/-3,0/3,3/0,-3/1,4$ on the bottom misaligned J/J Alternative 6 slice: $-1,-1/3,0/-3,0/3,0/3,0/6,0/$	4 / 6 $-1,-1/3,0/-3,0/3,0/-3,0/$ Misaligned bottom N/J alg	5
		$/2,-1/-2,1/2,1/4,1/6,0/$	6 $/2,-1/-2,1/2,1/-2,1/$	5