

	Case	Algs
A1		$R2' F2 (R2' bR' R2) F2' (R2' bR R')$
A1'		$(R bR' R2) F2 (R2' bR R2) F2' R2$
A2		$bR' R' U L U' R' U L' U' R2 bR$
A2'		$bR' R2' U L U' R U L' U' R bR$
E1		<b><math>y2 (R U R' U) (R' U' R F') (R U R' U') (R' F R2 U') (R2' U R U')</math></b> $(R- U' R' U L U' R U) xy' (R bR R' F R bR' R' F')$
E2		<b><math>y2 R2 U R' U' y (R U R' U') (R U R' U') (R U R') y' R U' R2'</math></b> (the one handed E perm)
E3		<b><math>(y') L' (R U2 R' U') (R U R' U') (R U R' U') R U' R' L</math></b> (Setup to RU COLL L-case)
Q		$(y2') R2 U2 R2' U R2 U' R2' U R2 U' R2' U R2 U2 R2'$
Q'		$R2 U2' R2' U' R2 U R2' U' R2 U R2' U' R2 U2' R2'$
Q2		$(R2' U2' R2 U' R2' U2' R2) (R U R' U') (R' F) (R2 U') (R' U' R U) (R' F')$
Q2'		$(R2 U2 R2' U R2 U2 R2') U (R U R' U') (R' F) (R2 U') (R' U' R U) (R' F') U$
O		$(R2' U' R2 F2 R2' F2') U' (F2 R2 F2' R2' U2 R2)$
O'		$(R2' U2' R2 F2 R2' F2') U (F2 R2 F2' R2' U R2)$
O2		$(R2 U2' R2' F2' U' F2) U' (R2 U' R2' F2' U2' F2)$
O2'		$(F2' U2 F2 R2 U R2') U (F2' U F2 R2 U2 R2')$