

Full TTLL by Justin Taylor: Organized by Corner Case

Front Opposite

	Ra	R' D' R U' R2 D' R U' R' D R U D R
	Ja	(U) R U' R' U R U2 R' U' R U R'
	F	(U') R2 U2 R U' R' U R' U2 R2 U R U R'
	Jb	(U2) R2 U R2 U R2 U2 R2
	T	R2 U2 R2 U' R2 U' R2
	Gd	R' U2 R U2 R U R' U2 R U R' U' R' U2 R
	Ga	(U') R U R' U R U R' U R U' R' U R U R' U R U R'
	Gb	R U' R' U' R U2 R' U2 R U2 R' U R U R'
	Gc	(U2) R U2 R' U' R' U2 R2 U R2 U R
	Ab	(U) R' U' R' U R U2 R U2 R2 U' R U R
	Ra	(U) R U' R' U R2 U R' U R' U' R2 U' R' U2 R'
	Aa	(U) R' U' R2 U' R2 U2 R U R U2 R'

Right Opposite

	Gc	(y') R2 U2 R U' R2 U R U R' U2 R2 U2 R' U R2
	Jb	(y' U') R' U R U' R' U2 R U R' U' R
	F	(y' U) R2 U2 R' U R U' R U2 R2 U' R' U' R
	Ga	(y' U2) R' U2 R U R U2 R2 U' R2 U' R'
	T	(U') D R2 U2 R2 U R2 U R2 D'
	Rb	(y') R2 U2 R U R U' R' U2 R U R' U' R' U R2
	Ra	(y') R' U R U R' U R U2 R' U R U R' U R R U' R D R' U R U D' R D R' U' R D' R
	Gd	(y' U') R2 U' R2 U R2 U2 R2 U' R2 U R2 (U') R U R' U' R U' R D R' U2 R D' R' U' R' U R U' R'
	Ja	(y' U2) R2 U' R2 U' R2 U2 R2
	Aa	(y' U') R U R U' R' U2 R' U2 R2 U R' U' R'
	Gb	(y' U) R U R U' R2 U2 R U2 R U R' U' R'
	Ab	(y' U') R U R2 U R2 U2 R' U' R' U2 R

Double Opposite

	Y	R2 U R2 D R2 D' R2 U' R2 D R2 D' F R U' R2 D R U' R' D' R U R U R' F'
	V	R U2 R' U2 R' U' R2 U' R2 U2 F R U R U' R' F' R' U' R' U R2 D' R U2 R' U2 R U' R' D R'
	Y	F2 r2 U' r2 U' r2 U r2 U F2
	Na	F2 U' r2 U' r2 U r2 U r2 F2
	V	R U' R' U' R U' R D R' U' R D' R' U' R' U2 R U R'
	Nb	F2 U R2 U R2 U R2 U2 R2 U F2 R2 D r2 U r2 U' r2 U' r2 U D' R2
	V	(U2) x R' U R U' R' U R U' R' U R U'
	Y	(U') R U' R' U R U' R2 F2 R2 U' R' U' R U R' F2 (U') R U R' U' R U2 R D R' U' R U' R U R2 D' R
	E	(U) I' U2 I U2 R U' R' U' I' U2 I U' R U' I' U2 (U') R U2 R' U2 R U2 R' U' R U' R D R' U R D' R' U R'
	V	(U') R2 U' F2 U' F2 R2 U2 R2 D R2 D' (y') R' U R U R' U R U' R D R' U R D' R' U2 R' U' R
	E	R2 D R2 U' D' F2 R2 U' R2 U' F2 (U2) R U' R' U2 R U' R D R' U R D' R' U R' U R U R'
	Y	F2 U' R2 U2 R2 U' R2 U' R2 U' F2





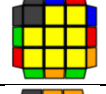
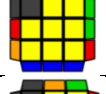
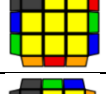
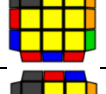
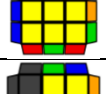
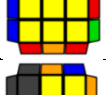
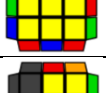

Any y or y' rotation before an algorithm may be replaced with a corresponding (U' D) or (U D') move before and after execution.

Alternate algorithms are in blue. The corresponding 2 sided PLL recognition for the F and R face is in maroon.



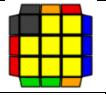
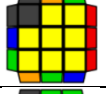


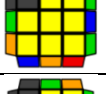
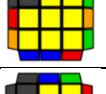
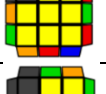



The black corner piece in UBL has the D color sticker on the U face, and is the corner that belongs in DFR.

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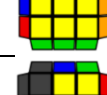
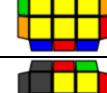

Front Bar

	Ja	(z') R' D2 R U2 R' D2 R U2 D' r2 U R2 U' r2 D R2 // R' D R2 D' R' U R D R' U' R' D' R
	Rb	(y' U') F R2 U' R' U2 R' U2 R2 U R' U' R' U' R U R' F' R2 U R U R' U' R' U' R' U' D R' U R U D' R
	Ra	(U') R U R' U' R U' R2 D' R U' R' D R U2 R U' R' F2 R U' I D2 I' U R' U2 R2 F2 R2 U2 F2
	T	(U') R U2 R' U' R U2 R D R' U2 R D' R' U R' (y U) F' R' U' R' U R U' U2 R U2 R F
	Gc	(y') R' U2 R U2 R' U R U2 R2 D' r U2 r' D R2
	Jb	(U') R2 U2 R' U x U' r' U' r U2 R' U' (U') R2 D R' U' R D' R2 U R U' R' U2 R U2 R'
	Gb	(U2) R2 D R' U2 R D' R2 U2 R U R' U2 R U2 R'
	Ga	R U R' U' R U' R' U' R U R' U' R' D' R U R' D R
	Aa	D' r U2 r' R U2 R U R2 U' R2 D R2 (y') R' U R' D' R U2 R' D R U2 R U R' U2 R
	Gd	F R U R' U' R' F' R2 U2 R' U2 R U2 R' (y') R' U R' D' R U2 R' D R U2 R U R' U2 R
	Ab	D R U' R U2 R2 U R U' R U2 R' U' R' D' R U2 R' R U2 R' U2 R U' R' U2 r' F R F' r U2 R'
	F	F U' F R2 u R' U R U' R u' R2 F2 (U') R2 U' D R2 U' R U' R U' R' U R2 U D' R U' R

Right Bar

	Jb	(x') D' R U' R' D2 R U R' D'
	Ra	R U R' U2 R2 D R' U R D' R' U2 R' U R U R' (U') I D I' U R U' F' U2 R' U2 R U' R' U R U R'
	Ja	(x) U R U2 r' U r U x' U' R U2 R2 D' R2 U R D R' D' R U' R' U' R D R2
	F	R' U R' U' D R2 U' R U' R' U R' U R2 U D' R2 (U) R U2 R' U2 R U R' U' r' F R F' r U' R'
	Gb	(U) R U R' U2 R' D' R U R' D R2 U R' U R U' R' (U') R2 D R2 U' R2 D' R2 F2 U2 F2
	T	R2 D' R2 U R2 U' R' U2 R' r U2 r' D (U) R2 D' R U2 R' r U2 r U2 U' r2 D
	Gd	R U2 R' U2 R U' R' U2 R2 D R' U2 R D' R2
	Gc	R U R' U' R U' R' U' R U R' U2 R' D' R U2 R' D R (z) R U' R2 D R D' R' D R' U R' D' R D R' D'
	Aa	(U) R U2 R' D R U R U2 R' U R' U' R2 U2 R' U R' D' R U2 r' F R' F' r U2 R U R' U2 R U2 R'
	Gd	R U2 R' U2 R U' R' U2 R2 D r' U2 r D' R2
	Ab	R U' R D R' U2 R D' R' U2 R' U' R U2 R'
	Rb	(U') R2 U2 R2 F2 U' R2 U' R2 U F2

Double Bar

	Ua	(y') R2 r U' r' F2 R2 U' R' F R' F2 R2 (y') R' U R' U R U' R U' R2 D R' U' R U D' R'
	Ua	(y) F2 R U R' U' R' F R2 U' R' U' R U R' F
	Z	(U') R U2 R' U' R U2 R' U' F2 R U2 R' U2 I' U2 I (U) R U F R U R' U' F' R2 F R F' R U' R'
	Ua	R2 U R2 D R2 U' R D' R D R' U R U' R D' r U' R' U2 r' U r U2 R2 F R F' R2 U r'
	Z	(U) R' D' R U2 R' D R2 U2 R' U' R U2 R' U' R U2 R' (U') D R2 U' R2 U R2 F2 R U' I D2 I' U' I U2 F'
	Ub	R' D' R U R' D R U2 R' U' R U R U' R' U2 R U2 R' R2 U F R U' R' U R U2 F' U' R' U R'
	Ub	(y') R2 F2 R F' R U R2 F2 r U r' R2 R U' R U' R' U R' U R2 D' R U R' U' D R
	Ub	R U R' U' R U' R' U' R U R D R' U' R D' R' U R'
	Ub	R' U2 R2 F R F' R U' R' F' U F R U' R R2 U R U' R' U' R U R D R' U' R D' R' U2 R' U2 R2
	∅	F2 r2 U' r' F' r' F2 R U' R' (x z') U2 R2 F R F' R U2 r' U L
	Ua	(U') R2 U2 R2 U' R' U' I D2 I' U R' U' R2 F2 R U' R' D R' U R U' R' U' R D' R2 U R U' R2
	H	R' U2 R' U R U' D' R U2 R U R U' R2 D R

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