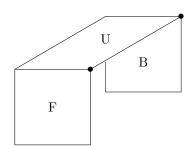
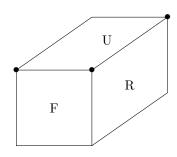
Read move sequences left to right. Moves are counterclockwise, inverses are clockwise. Rotation +1 is counterclockwise, -1 clockwise.



 $(FU^{-1}B)^3$: Interchanges dots, fixes other corners with some rotation. $(FU^{-1}B)^9$: Interchanges dots, fixes other corners with no rotation.



 $(RUF)^4$: Rotates dots +1, fixes other corners with no rotation. $(F^{-1}U^{-1}R^{-1})^4$: Rotates dots -1, fixes other corners with no rotation. These leave center square orientations fixed.

	U U			$s = R^{-1}LU^{2}RL^{-1}F^{-1}R^{-1}LURL^{-1}F^{2}$ $s^{-1} = F^{2}LR^{-1}U^{-1}L^{-1}RFLR^{-1}U^{2}L^{-1}R$ $t = R^{-1}LU^{2}RL^{-1}FR^{-1}LU^{-1}RL^{-1}F^{2}$			
L	4	5 F 2	3	R			
	6	D 8	7				

These fix center square orientation:

ts flips the orientation of 3 and 5, fixes all else.

 $sD^{-1}s^{-1}D$ flips 2, 6, all else stable.

 $sDs^{-1}D^{-1}$ flips 2, 7, all else stable.

 $sD^2s^{-1}D^2$ flips 2, 8, all else stable.

These do not:

s flips the orientation of 1,2, cycles $3 \rightarrow 4 \rightarrow 5$, fixes all else.

t is similar but cycles $3 \rightarrow 5 \rightarrow 4$.

 s^3 flips 1,2, all else stable.

2		
	F	
3		1

 $FRF^{-1}R^{-1}F^{-1}U^{-1}FU$: cycles corners $1\to 2\to 3$, other corners unchanged, some edges move. This leaves orientation of center squares fixed.

Inverse is $U^{-1}F^{-1}UFRFR^{-1}F^{-1}$.

	1 U			$y = R^{-1}LU^2RL^{-1}F^2$		
L	4	5 F	3	R		
	6	D 8	7			

y cycles $5 \to 1 \to 2$, fixes all else except orientations of U, F centers. y^2 cycles $5 \to 2 \to 1$, fixes everything else.