


Phillip Espinoza, David Woner and Friends' Cross on Left Guide


Arranged by Andy Klise

You must solve the cross *on the left* first. It can be done in ≤6 moves ~82% of the time and ≤7 moves 99.95% of the time
 These are just optimal example solves; F2L should be solved intuitively.
 Try to insert F2L pairs into the Down-Back corner slot with D-moves whenever possible

Easy Cases (1-4)

 $x R U R' U'$
 [R] U r U' r' U' - DF slot open^D
 [x] F R U R' U' R' F' - DF open
 [x] F R U R' U' F' - DF open
 Use (z' y' R' F R F') if no U face edges are oriented properly on final slot

$R' U' R U$
 Use (z' y' F R' F' R) if no U face edges are oriented properly on final slot


 $U' R' U$
 Note - this image is green and red because no cube rotation is required

$x U R U'$
 Note - this image is blue and red because a cube rotation is required

Reposition Edge (5-8)

 $I' U R U' R' U R^2 U'$

$R U' R' U R^2 U' R U$
 Solved from a different angle:
 [I²] R U' R' U D' R D

 $I' U R^2 U' R^2 U R' U'$

$R U' R^2 U R^2 U' R U$

Reposition Edge and Flip Corner (9-14)

 $R^2 U' R U R U' R' U$

$R U' R U I' U R U'$


 $R' U' R U (R U' R' U)^*2$

$R U' R^2 U I' U R U'$
 F (R U R^2 U') F' - UB open

 $R U' R U R' U' R' U$

$I' R' U R' U' R U R U'$

Split Pair by Going Over (15-18)


 $U' R U (R' I') U R U'$
 F U R U' R' F' - BL open

$F R' F' R^2 U' R' U$


 $x U R^2 U' R' U R U'$

$U' R^2 U R U' R' U$

Pair Made on Side (19-22)

 $x R U R^2 U' R U R' U'$

$R' U' R^2 U R' U' R U$

 $(I' R') U R^2 U' R U R' U'$

$R^2 U' R' U R' U' R U$

Weird (23-24)

 $U' R' U I' U R' U' R U R' U'$

$U' R' U R^2 U' R' U R U' R' U$

Corner in Place, Edge in U Face (25-30)

 $R' U' R U x R U R' U'$


$x R U R' U' x' R' U' R U$
 [x'] U R r U' R' U r' U^D
 [x'] r U r' D' r U' r' D^D
 [R] L² U' R' U M² U' R U - BD open^D



 $x U R' U' R U R' U'$

$(U' R U R') U' R U$



 $(U' R' U R) U' R' U$

$x U R U' R' U R U'$
 [R] F (R U R' U')*2 F' - BL open



Edge in Place, Corner in U face (31-36)

 $U' R U I' U R' U'$

$(U' R' U R)^*4$
 [x' U²] F' R U' R' U R' F^D
 [R²] F (R U R U' R') F' - UB open
 [x' R²] U² r U² r' U² - DB open^W
 [x'] U' R² U² r U r' U' - UF open^P



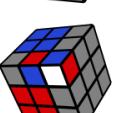
 $R' U' R' U R^2 U' R' U$
 [R'] r U' R' U r' - FD open^D

$R U' R U R^2 U' R U$
 [x' R] U r U r' U' - UB open^D
 [R²] r U' R U r' - FD open^D



 $I' U R U' I U' R' U$

$R U' R' U I' U R U'$



Edge and Corner in Place (37-42)

 Solved Pair


$(U' R U R')^*2 x (U R U' R')^*2$
 [x] U R' U' F' U' R' U² R U' F^D



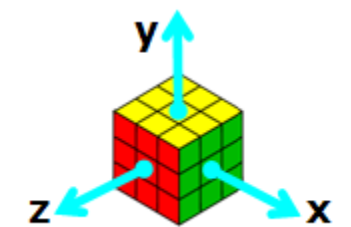
 $U' R U R' U' R^2 U R' U' R U$

$U' R' U R U' R^2 U R U' R' U$



 $U' R U (I' R') U R U' R U R' U'$

$U' R U R U' R U I' U R U'$



Credits

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