



F2L 1



3x3 - F2L - Free Pairs

setup:
F R' F' R

Front Right

Front Left

Back Left

Back Right

✓ U R U' R'



✓ R' F R F'



✓ y' r' U' R U M'



✓ M' U R U' r'



F2L 2



3x3 - F2L - Free Pairs

setup:
R' F R F'

Front Right

Front Left

Back Left

Back Right

✓ F R' F' R



✓ y' U' R' U R



✓ U' F' U F



✓ y U' L' U L





F2L 3



3x3 - F2L - Free Pairs

setup:

F' U F

Front Right

Front Left

Back Left

Back Right

✓ F' U F



✓ y' R' U' R



✓ y L' U' L



✓ S U R U' R' S'



F2L 4



3x3 - F2L - Free Pairs

setup:

R U' R'

Front Right

Front Left

Back Left

Back Right

✓ R U R'



✓ y' f R f'



✓ y F U F'



✓ y2 L U L'



F2L 5



3x3 - F2L - Disconnected Pairs

setup:

R U R' U2' R U' R' U

Front Right

Front Left

Back Left

Back Right

✓ U' R U R' U2 R U' R'



✓ F2 L' U' L U F2



✓ U' R U R' U' R U2 R'



✓ U' R U R' U R' F R F'





F2L 6



3x3 - F2L - Disconnected Pairs

setup:

F' U' F U2' F' U F U'

Front Right

Front Left

Back Left

Back Right

✓ U' r U' R' U R U' r'



✓ y' U R' U' R U2 R' U R



✓ d R' U' R U2 R' U R



✓ U F' U' F U2 F' U F



F2L 7



3x3 - F2L - Disconnected Pairs

setup:

R U R' U2' R U2' R' U

Front Right

Front Left

Back Left

Back Right

✓ U' R U2 R' U' R U2 R'



✓ M' U' M U2 r U' r'



✓ U' R U2 R' U R' F R F'



✓ U' R U2 R' U2 R U' R'



F2L 8



3x3 - F2L - Disconnected Pairs

setup:

r' U' R2 U' R2' U2' r

Front Right

Front Left

Back Left

Back Right

✓ d R' U2 R U R' U2 R



✓ r' U2 R2 U R2 U r



✓ y' U R' U2 R U2 R' U R



✓ y U L' U2 L U2 L' U L





F2L 9



3x3 - F2L - Disconnected Pairs

setup:

F' U F U' R U R' U

Front Right

Front Left

Back Left

Back Right

✓ U' R U' R' U F' U' F



✓ F R U R' U' F' R U R'



✓ U' R U' R' d R' U' R



✓ d R' U' R U' R' U' R



F2L 10



3x3 - F2L - Disconnected Pairs

setup:

R U' R' U' R U' R' U

Front Right

Front Left

Back Left

Back Right

✓ U' R U R' U R U R'



✓ U2 R U' R' U' R U R'



✓ y' U R' U R U' f R f'



✓ d R' U R d' R U R'



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F2L 11



3x3 - F2L - Connected Pairs

setup:

F' U F U' R U2' R' U

Front Right

Front Left

Back Left

Back Right

✓ U' R U2 R' U F' U' F



✓ y' R U2 R2 U' R2 U' R'



✓ U' R U2 R' d R' U' R



✓ F' U L' U2 L U2 F



F2L 12



3x3 - F2L - Connected Pairs

setup:

R U R' U2' R U R' U' R U R'

Front Right

Front Left

Back Left

Back Right

✓ R U' R' U R U' R' U2 R U' R'



✓ R' U2 R2 U R2 U R



✓ U R U' R' U' R U R' U' R U R'



✓ R' D' R U2 R' D R2 U R'



F2L 13



3x3 - F2L - Connected Pairs

setup:

r U2' R' U R U' R' U M

Front Right

Front Left

Back Left

Back Right

✓ y' U R' U R U' R' U' R



✓ M' U' R U R' U2 R U' r'



✓ d R' U R U' R' U' R



✓ R U' R' U R' F R F' R U' R'





F2L 14



3x3 - F2L - Connected Pairs

 setup:
 R U' R' U' R U' R' U

Front Right

Front Left

Back Left

Back Right

✓ U' R U' R' U' R U' R'



✓ R U2 R' U2 R U' R' U2 R U' R'



✓ U' R2 D R' U R D' R2



✓ U2 R2 U' R' U R U2 R2



F2L 15



3x3 - F2L - Connected Pairs

 setup:
 R U' R' U' R U' R' U2' R U' R'

Front Right

Front Left

Back Left

Back Right

✓ R' D' R U' R' D R U' R U' R'



✓ R U' R' U2 R U' R' U' R U' R'



✓ M U' r U' r' U' M'



✓ F' U F U2 R U' R'



F2L 16



3x3 - F2L - Connected Pairs

 setup:
 F' U F U2' R U' R'

Front Right

Front Left

Back Left

Back Right

✓ R U' R' U2 F' U' F



✓ R U' R' U2 y' R' U' R



✓ U M' U R U' r' U' R U' R'



✓ U F U R U' R' F' R U' R'





F2L 17



3x3 - F2L - Connected Pairs

setup:

R U' R' U R U2' R'

Front Right

Front Left

Back Left

Back Right

✓ R U2 R' U' R U R'



✓ y2 L U2 L' U' L U L'



✓ R U R' U' R U2 R' U2 R U R'



✓ y L F' L' F L' U L U' L' U L



F2L 18



3x3 - F2L - Connected Pairs

setup:

R U R' U' R U R' F R' F' R

Front Right

Front Left

Back Left

Back Right

✓ y' R' U2 R U R' U' R



✓ R' F R F' R U' R' U R U' R'



✓ y L' U2 L U L' U' L



✓ F' U2 F U F' U' F



F2L 19



3x3 - F2L - Disconnected Pairs

setup:

R U R' U' R U2' R' U'

Front Right

Front Left

Back Left

Back Right

✓ U R U2 R' U R U' R'



✓ U R U2 R2 F R F'



✓ d f R2 f' U f R' f'



✓ R U' R' U R U' R' U R U R'



**F2L 20**

3x3 - F2L - Disconnected Pairs

setup:**R U R' F R' F' R2' U R' U**

Front Right

Front Left

Back Left

Back Right

✓ y' U' R' U2 R U' R' U R



✓ U' R U' R2 F R F' R U' R'



✓ y U' L' U2 L U' L' U L



✓ d' L' U2 L U' L' U L



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**F2L 21**

3x3 - F2L - Disconnected Pairs

setup:**R U' R' U2' R U R'**

Front Right

Front Left

Back Left

Back Right

✓ U2 R U R' U R U' R'



✓ R U' R' U2 R U R'



✓ R B U2 B' R'



✓ y' f R' f' U2 f R f'





F2L 22



3x3 - F2L - Disconnected Pairs

setup:

F' L' U2' L F

Front Right

Front Left

Back Left

Back Right

✓ r U' r' U2 r U r'



✓ F' L' U2 L F



✓ y' U2 R' U' R U' R' U R



✓ y U2 L' U' L U' L' U L



F2L 23



3x3 - F2L - Connected Pairs

setup:

R U' R' U R U' R' U2' R U' R'

Front Right

Front Left

Back Left

Back Right

✓ U R U' R' U' R U' R' U R U' R'



✓ R U R' U2 R U R' U' R U R'



✓ U2 R2 U2 R' U' R U' R2



✓ R U' R2 D' R U2 R' D R



F2L 24



3x3 - F2L - Connected Pairs

setup:

R U R' F R U R' U' F'

Front Right

Front Left

Back Left

Back Right

✓ F U R U' R' F' R U' R'



✓ y' R' U' R U2 R' U' R U R' U' R



✓ U' R U R2 F R F' R U' R'



✓ y U' L' U L U L' U L U' L' U L



**F2L 25**

3x3 - F2L - Corner In Slot

setup:**F' R U R' U' R' F R**

Front Right

Front Left

Back Left

Back Right

✓ U' R' F R F' R U R'



✓ R' F' R U R U' R' F



✓ U' F' R U R' U' R' F R



✓ U' F' U F U R U' R'

**F2L 26**

3x3 - F2L - Corner In Slot

setup:**F' U' F U R U R' U'**

Front Right

Front Left

Back Left

Back Right

✓ U R U' R' F R' F' R



✓ R S' R' U R S R'



✓ U R U R' U' y L' U' L



✓ y' R U R U R U' R' U' R'

**F2L 27**

3x3 - F2L - Corner In Slot

setup:**R U R' U' R U R'**

Front Right

Front Left

Back Left

Back Right

✓ R U' R' U R U' R'

✓ F' U' F U² R U' R'

✓ y' f R' f' U f R' f'



✓ y' f R' f' r' U' R U M'





F2L 28



3x3 - F2L - Corner In Slot

setup:

R' F R F' U R U' R'

Front Right

Front Left

Back Left

Back Right

✓ R U R' U' F R' F' R



✓ y L' U L U' L' U L



✓ F' U F U' F' U F



✓ y' R' U R U' R' U R



F2L 29



3x3 - F2L - Corner In Slot

setup:

F R' F' R F R' F' R

Front Right

Front Left

Back Left

Back Right

✓ R' F R F' U R U' R'



✓ y' R' U' R U R' U' R



✓ y L' U' L U L' U' L



✓ R' F R F' R' F R F'



F2L 30



3x3 - F2L - Corner In Slot

setup:

R U' R' U R U' R'

Front Right

Front Left

Back Left

Back Right

✓ R U R' U' R U R'



✓ U' F R' F' R2 U R'



✓ U' R U2 R' U2 R U R'



✓ U2 F' U F R U R'





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F2L 31

3x3 - F2L - Edge In Slot

setup:

R U R' F R' F' R U

Front Right

Front Left

Back Left

Back Right

✓ U' R' F R F' R U' R'



✓ R U' R' U y' R' U R



✓ F' U F R U2 R'



✓ R U' R' U2 F R' F' R



F2L 32

3x3 - F2L - Edge In Slot

setup:

R U' R' U R U' R' U R U' R'

Front Right

Front Left

Back Left

Back Right

✓ U R U' R' U R U' R' U R U' R'



✓ R U R' U' R U R' U' R U R'



✓ R2 U R2 U R2 U2 R2



✓ U' F R' F' R U' R U R'





F2L 33

3x3 - F2L - Edge In Slot

setup:
R U R' U2' R U R' U

Front Right

Front Left

Back Left

Back Right

✓ U' R U' R' U2 R U' R'



✓ R U R' U' R U' R' U R U' R'



✓ y R' D R U' R' D' R



✓ U' R U' R' U R' F R F'



F2L 34

3x3 - F2L - Edge In Slot

setup:
R U' R' U2' R U' R' U'

Front Right

Front Left

Back Left

Back Right

✓ U R U R' U2 R U R'



✓ U' R U2 R' U R U R'



✓ U R' D' R U' R' D R



✓ y U L' U L U2 L' U L



F2L 35

3x3 - F2L - Edge In Slot

setup:
F' U F U' R U' R' U

Front Right

Front Left

Back Left

Back Right

✓ U' R U R' U F' U' F



✓ U' R U R' d R' U' R



✓ U2 R U R' F R' F' R



✓ U2 R U R' y' U' R' U R





F2L 36



3x3 - F2L - Edge In Slot

setup:

R U' R' U2' F R' F' R U2'

Front Right

Front Left

Back Left

Back Right

✓ U F' U' F U' R U R'



✓ U2 R' F R F' U2 R U R'



✓ R2 u R U R' U' u' R' U R'



✓ R U R' U R U R' U' F' U' F



F2L 37



3x3 - F2L - Pieces In Slot

setup:

R U' R U2' F R2' F' U2' R2'

Front Right

Front Left

Back Left

Back Right

✓ R2 U2 F R2 F' U2 R' U R'



✓ R' F R F' R U' R' U R U' R' U2 R U' R'



✓ R U R' U2 R U2 R' U y' R' U' R



✓ R' F R F' R' U2 R2 U R2 U R



F2L 38



3x3 - F2L - Pieces In Slot

setup:

R U' R' U R U2' R' U R U' R'

Front Right

Front Left

Back Left

Back Right

✓ R U' R' U' R U R' U2 R U' R'



✓ R U R' U' R U2 R' U' R U R'



✓ R2 U2 R' U' R U' R' U2 R'



✓ R U' R' U' R U R' U' R U2 R'





F2L 39



3x3 - F2L - Pieces In Slot

setup:

R U' R' U' R U R' U2' R U' R'

Front Right

Front Left

Back Left

Back Right

✓ R U' R' U R U2 R' U R U' R'



✓ R U2 R U R' U R U2 R2



✓ R U R' U2 R U' R' U R U R'



✓ R U2 R' U R U' R' U R U R'



F2L 40



3x3 - F2L - Pieces In Slot

setup:

R U R' F U R U' R' F' R U R'

Front Right

Front Left

Back Left

Back Right

✓ r U' r' U2 r U r' R U R'



✓ F' L' U2 L F R U R'



✓ R U' R' U' R U' R' U y' R' U' R



✓ R U' R' F R U R' U' F' R U' R'



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F2L 41



3x3 - F2L - Pieces In Slot

setup:

R F U R U' R' F' U' R'

Front Right

Front Left

Back Left

Back Right

✓ R U' R' r U' r' U2 r U r'



✓ R U' R' F' L' U2 L F



✓ R U R' U' y M U' R' F R U M'



✓ R U R' U' R U' R' U2 y' R' U' R

