**3x3x3: PLL**

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| --- | --- | --- |
| http://sa967st.github.io/images/pll/Ua.png  U(a)  R U' R U R U R U' R' U' R2  y2 R2 U' R' U' R U R U R U' R  y2 M2 U M' U2 M U M2 | **http://sa967st.github.io/images/pll/Ub.png**  U(b)  R2 U R U R' U' R' U' R' U R'  y2 R' U R' U' R' U' R' U R U R2  y2 M2 U' M' U2 M U' M2 | **C:\Users\Valued Customer\Documents\GitHub\sa967st.github.io\images\pll\Z.png**  Z  R' U' R U' R U R U' R' U R U R2 U' R'  y M2 U M2 U M' U2 M2 U2 M'  y M' U M2 U M2 U M' U2 M2 |
| http://sa967st.github.io/images/pll/H.png  H  M2 U M2 U2 M2 U M2  M2 U' M2 U2 M2 U' M2 | http://sa967st.github.io/images/pll/Aa.png  A(a)  l' U R' D2 R U' R' D2 R2 x'  y x' R2 D2 R' U' R D2 R' U R’ x | http://sa967st.github.io/images/pll/Ab.png  A(b)  x’ R2 U2 R D R' U2 R D' R x  y x' R U' R D2 R' U R D2 R2 x |
| http://sa967st.github.io/images/pll/Ja.png  J(a) or L  F2 L' U' R U2 L' U R' U' L2  R' U2 R U R' U2 L U' R U L'  y R' U L' U2 R U' R' U2 R L | http://sa967st.github.io/images/pll/Jb.png  J(b)  R U2 R' U' R U2 L' U R' U' L  R U R' F' R U R' U' R' F R2 U' R' | C:\Users\Valued Customer\Dropbox\Photos\Images for Site Download\3x3x3\PLL\web size\Ra.png  R(a)  L U2 L' U2 L F' L' U' L U L F L2  y R U R' F' R U2 R' U2 R' F R U R U2 R'  y R U' R' U' R U R D R' U' R D' R' U2 R' |
| http://sa967st.github.io/images/pll/Rb.png  R(b)  R' U2 R U2 R' F R U R' U' R' F' R2  y R2 F R U R U' R' F' R U2 R' U2 R | http://sa967st.github.io/images/pll/T.png  T  R U R' U' R' F R2 U' R' U' R U R' F' | http://sa967st.github.io/images/pll/F.png  F  R' U R U' R2 F' U' F U x R U R' U' R2  y R' U' F' R U R' U' R' F R2 U' R' U' R U R' U R |
| http://sa967st.github.io/images/pll/Ga.png  G(a)  R2 u R' U R' U' R u' R2 y' R' U R  y' R U R' U' R' U F R U R U' R' F' U R' U2 R  y2 l U2 R' r U r' F' D R U' R' D' R U' l' | http://sa967st.github.io/images/pll/Gb.png  G(b)  R' U' R y R2 u R' U R U' R u' R2  y2 R' U2 R U' F R U R' U' R' F' U' R U R U' R'  y' l U R' D R U R' D' F r U' r' R U2 l' | http://sa967st.github.io/images/pll/Gc.png  G(c)  R2 u' R U' R U R' u R2 y R U' R'  y2 R2 F2 R U2 R U2 R' F R U R' U' R' F R2  y2 l' U2 L' U l F' U' L U F R' F R |
| http://sa967st.github.io/images/pll/Gd.png  G(d)  R U R' y' R2 u' R U' R' U R' u R2  y R' F' R F' U' L' U F l' U' L U2 l | http://sa967st.github.io/images/pll/E.png  E  R2 U R' U' y (R U R' U')2 R U R' F U' F2  y x' R U' R' D R U R' D' R U R' D R U' R' D' x | http://sa967st.github.io/images/pll/Y.png  Y  F R U' R' U' R U R' F' R U R' U' R' F R F'  F R' F' R U R' U' R2 U' R U L U' R' |
| http://sa967st.github.io/images/pll/V.png  V  R' U R' U' y R' F R2 U' R' U' R' F  R' U2 R U2 L U' R' U L' U L U' R U L' | http://sa967st.github.io/images/pll/Na.png  N(a)  F' R U R' U' R' F R2 F U' R' U' R U F' R'  R' U R2 B2 U R' B2 R U' B2 R2 U' R  R U' R' U l U F U' R' F' R U' R U l' U R' | http://sa967st.github.io/images/pll/Nb.png  N(b)  R' U R U' R' F' U' F R U R' U R U y R U R'  R U' R2 F2 U' R F2 R' U F2 R2 U R' |