Flipped and correct state	Probability
$\lvert W \rangle_1 = \frac{1}{\sqrt{3}}\left(\lvert 001 \rangle + \lvert 010 \rangle + \lvert 100 \rangle\right)$	$F_1 = (1 - p'') \cdot (1 - p'') \cdot (1 - p'')$
$\lvert W \rangle_2 = \frac{1}{\sqrt{3}}\left(\lvert 001 \rangle + \lvert 100 \rangle + \lvert 010 \rangle\right)$	$F_2 = (1 - p'') \cdot (p''/2) \cdot (p''/2)$
$\lvert W \rangle_3 = \frac{1}{\sqrt{3}}\left(\lvert 010 \rangle + \lvert 001 \rangle + \lvert 100 \rangle\right)$	$F_3 = (p''/2) \cdot (1 - p'')$
$\lvert W \rangle_4 = \frac{1}{\sqrt{3}}\left(\lvert 010 \rangle + \lvert 100 \rangle + \lvert 001 \rangle\right)$	$F_4 = (p''/2) \cdot (p''/2) \cdot (p''/2)$
$\lvert W \rangle_5 = \frac{1}{\sqrt{3}}\left(\lvert 100 \rangle + \lvert 001 \rangle + \lvert 010 \rangle\right)$	$F_5 = (p''/2) \cdot (p''/2) \cdot (p''/2)$
$\lvert W \rangle_6 = \frac{1}{\sqrt{3}}\left(\lvert 100 \rangle + \lvert 010 \rangle + \lvert 001 \rangle\right)$	$F_6 = (p''/2) \cdot (1 - p'') \cdot (p''/2)$