

$$\begin{array}{c}
 (x_1 \otimes x_0) \otimes x_1 \\
 \downarrow \rho_{x_1} \otimes 1_{x_1} \\
 x_1 \otimes x_1
 \end{array}$$

$$\begin{array}{c}
 x_1 \otimes (x_1 \otimes x_1) \\
 \downarrow 1_{x_1} \otimes \rho_{x_1 \otimes x_1}^{-1} \\
 x_1 \otimes ((x_1 \otimes x_1) \otimes x_0)
 \end{array}$$