$$(\hat{z}\pm\hat{p}_z)_N \xrightarrow{\tilde{\mathcal{M}}} (\hat{z}\pm\hat{p}_z)_{N+1}$$
 $e^{:-F:}$ 
 $e^{:F:}$ 
 $\downarrow e^{:F:}$ 
 $\downarrow e^{:F:}$ 
 $\downarrow e^{:F:}$