$$\begin{array}{ccc}
I & \xrightarrow{\ j_a\ } & \mathrm{Mor}_{\mathcal{A}}(a, a) \\
& \searrow_{\ j'_{F(a)}} & \ \circlearrowright\ \ \downarrow{F_{aa}} \\
& & \mathrm{Mor}'_{\mathcal{A}}(F(a), F(a))
\end{array}$$