$$\begin{array}{ccc}
\mathbf{A}_1 & \xrightarrow{t_1} & \mathbf{V}_1 \\
\alpha_A \downarrow & & \downarrow \alpha_V \\
\mathbf{A}_2 & \xrightarrow{t_2} & \mathbf{V}_2
\end{array}$$