$$\begin{array}{ccccc}
A_1 & \overset{f_A}{\rightarrowtail} & A_2 & \overset{g_A}{\twoheadrightarrow} & A_3 & \overset{\delta_A}{\longrightarrow} \\
\| & & \downarrow{\scriptstyle i_2} & & \downarrow{\scriptstyle y} & \\
A_1 & \underset{i_2 f_A}{\rightarrowtail} & B_2 & \overset{x}{\dashrightarrow} & E & \overset{\eta}{\dashrightarrow} \\
& & \downarrow{\scriptstyle p_2} & & \downarrow{\scriptstyle z} & \\
& & C_2 & = & C_2 & \\
& & \downarrow{\scriptstyle \varepsilon_2} & & \downarrow{\scriptstyle (g_A)_* \varepsilon_2} &
\end{array}$$