$$
\begin{tikzcd}
 & \mathrm{Ker}(d) \arrow[r] \arrow[d, hook] & \mathrm{Ker}(\delta) \arrow[r] \arrow[d, hook] & \mathrm{Ker}(\partial) \arrow[d, hook] \arrow[dddll, dashed, "D"'] & \\
 & A_1 \arrow[r, "\varphi_1"] \arrow[d, "d"'] & B_1 \arrow[r, two heads, "\psi_1"] \arrow[d, "\delta"] & C_1 \arrow[r] \arrow[d, "\partial"] & 0 \\
0 \arrow[r] & A_0 \arrow[r, tail, "\varphi_0"'] \arrow[d, two heads] & B_0 \arrow[r, "\psi_0"'] \arrow[d, two heads] & C_0 \arrow[d, two heads] & \\
 & \mathrm{Koker}(d) \arrow[r] & \mathrm{Koker}(\delta) \arrow[r] & \mathrm{Koker}(\partial) &
\end{tikzcd}
$$