$$\begin{array}{ccccc}
\Omega(A) & \overset{\iota_A}{\hookrightarrow} & P_A & \overset{\pi_A}{\twoheadrightarrow} & A \\
\Big\downarrow {\scriptstyle \mathrm{Id}_{\Omega(A)}\circ\,\mathrm{Id}_{\Omega(A)}-\mathrm{Id}_{\Omega(A)}=0} & & \Big\downarrow {\scriptstyle p_{\phi_2}\circ p_{\phi_1}-\mathrm{Id}_P} & \overset{\theta}{\diagup} & \Big\downarrow {\scriptstyle \phi_2\circ\phi_1-\mathrm{Id}_A} \\
\Omega(A) & \overset{\iota_A}{\hookrightarrow} & P_A & \overset{\pi_A}{\twoheadrightarrow} & A
\end{array}$$