$\delta(q_0, b) = (q_1, a, R)$

$\delta(q_0, \sqcup) = (p_{reject}, \sqcup, R)$

$\delta(q_1, a) = (p_{reject}, b, R)$

$\delta(q_1, b) = (q_1, b, R)$

$\delta(q_1, \sqcup) = (q_2, b, L)$

$\delta(q_2, a) = (p_{accept}, b, R)$

$\delta(q_2, b) = (q_1, b, L)$

$\delta(q_2, \sqcup) = (p_{reject}, \sqcup, R)$