$$\begin{array}{lll}
\mathbb{Q}_{2} & \times = \begin{bmatrix} 1 & 2 \end{bmatrix} & \mathbb{D}^{(1)} = \begin{bmatrix} 2 & 1 \\ 0 & 1 \end{bmatrix} & \mathbb{D}^{(2)} = \begin{bmatrix} 1 & 2 \\ 1 & 2 \end{bmatrix} \\
T = \begin{bmatrix} 0 & 0 \end{bmatrix} & \mathbb{D}^{(1)} = \begin{bmatrix} 2 & 1 \\ 0 & 1 \end{bmatrix} & \mathbb{D}^{(2)} \\
\frac{\partial L}{\partial \mathbb{D}^{(2)}} & = \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} 2 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial \mathbb{D}^{(2)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial s^{(3)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial s^{(3)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial s^{(3)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial s^{(3)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial \hat{y}_{n}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial s^{(3)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 & 1 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial s^{(3)}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial s^{(3)}} & \frac{\partial s^{(3)}}{\partial s^{(3)}} \\
& = \begin{bmatrix} 1 & 1 \\ 2 \end{bmatrix} \times \begin{bmatrix} -(y_{n} - \hat{y}_{n}) & \frac{\partial s^{(3)}}{\partial s^{(3)}} & \frac{\partial s$$

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