The (possibly singular) a-matrices associated with the Lagrangian, as defined below Eq. (18) of arXiv:1812.02675:

Matrix for spin-0 sector:

Matrix for spin-1 sector:

Matrix for spin-2 sector:

Matrix for spin-3 sector:

$$\left(-\frac{a}{0}\right)$$

Gauge constraints on source currents:

$$-6\,\bar{l}\stackrel{0^+}{\cdot}\mathcal{T}^\perp + k\stackrel{0^+}{\cdot}\mathcal{Z}^\parallel + 2\,k\stackrel{0^+}{\cdot}\mathcal{Z}^\perp = 0$$

$$2 \, i \stackrel{0^+}{\cdot} \mathcal{T}^{\perp} + k \stackrel{0^+}{\cdot} \mathcal{Z}^{\perp t} == 0$$

$$-6 \,\bar{l} \, \stackrel{1}{\cdot} \mathcal{T}^{\perp \alpha} + k \, \stackrel{1}{\cdot} \mathcal{Z}^{\perp h \alpha} == k \left( \stackrel{1}{\cdot} \mathcal{Z}^{\perp t \alpha} + 3 \, \stackrel{1}{\cdot} \mathcal{Y}^{\perp \alpha} \right)$$