



On page 357, we have the Lagrangian;

$$(54.21) \quad \mathcal{L} = -\frac{1}{4} F_{\mu\nu} F^{\mu\nu} + \bar{\psi} \gamma^\mu \partial_\mu \psi$$

Now, on page 338, we get the
inserting $F_{\mu\nu} = \partial_\mu A_\nu - \partial_\nu A_\mu$

$$(54.23) \quad \mathcal{L} = -\frac{1}{4} \partial_\mu A_\nu \partial^\mu A^\nu + \frac{1}{2} \partial_\mu A_\nu \partial^\nu A^\mu + \bar{\psi} \gamma^\mu \partial_\mu \psi$$

$$- \frac{1}{2} K_\mu$$

where: $K_\mu = \frac{1}{2} \partial^\nu A_\mu (\partial_\nu A_\mu - \partial_\mu A_\nu)$

I don't see how did he get

(54.24)? Anyone knowing?