

The 5A fuse is essential to protect the wiring from a short circuit. Car batteries can deliver hundreds of amps. The diode is not essential, but can be used to help the magnets release more quickly, by giving the back EMF from the magnets a path to flow.

To start gate magnets (connect magnets in parallel)

StartGate Pro - Diagram to show how to use a relay connected to a StartGate Pro to allow a more powerful magnet to be used.

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