

Technical Bulletin

Vanguard 3501 Motor + Encoder Wiring to 1050US Controller

DATE: September 23, 2026

OPERATOR: Vanguard 3501 with 1050US Controller

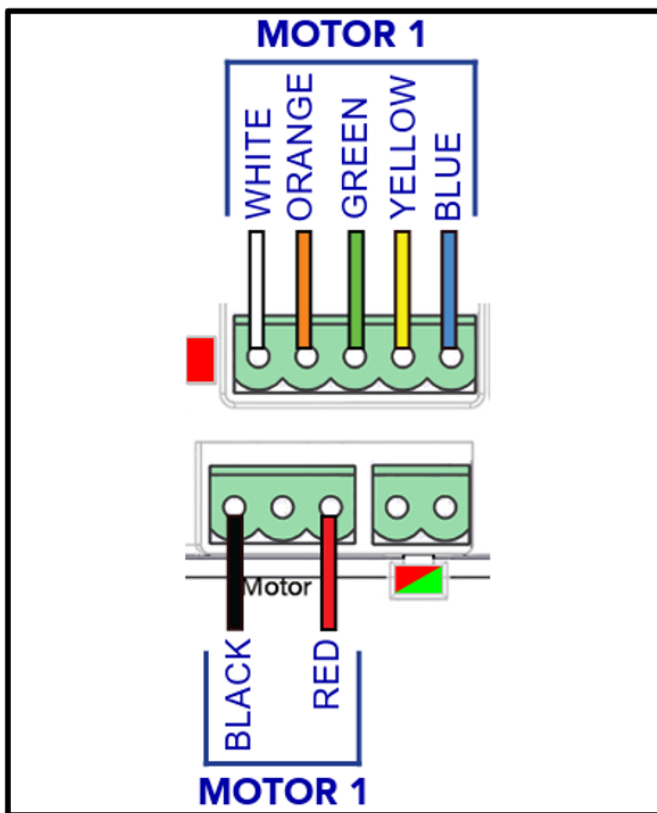
SUBJECT: In June 2024, it was announced that the Vanguard 3501 would start being manufactured with a new motor that included an encoder for the Mercury 310 controller. The operator kit included a Vanguard chassis and CBOX310.

Customer feedback has indicated that there are applications where the Vanguard chassis and CBOX1050 are preferred. Nice has created this operator kit with part number O-3501-1050 to include these components. Below are the wiring diagrams for the motor cable connections.

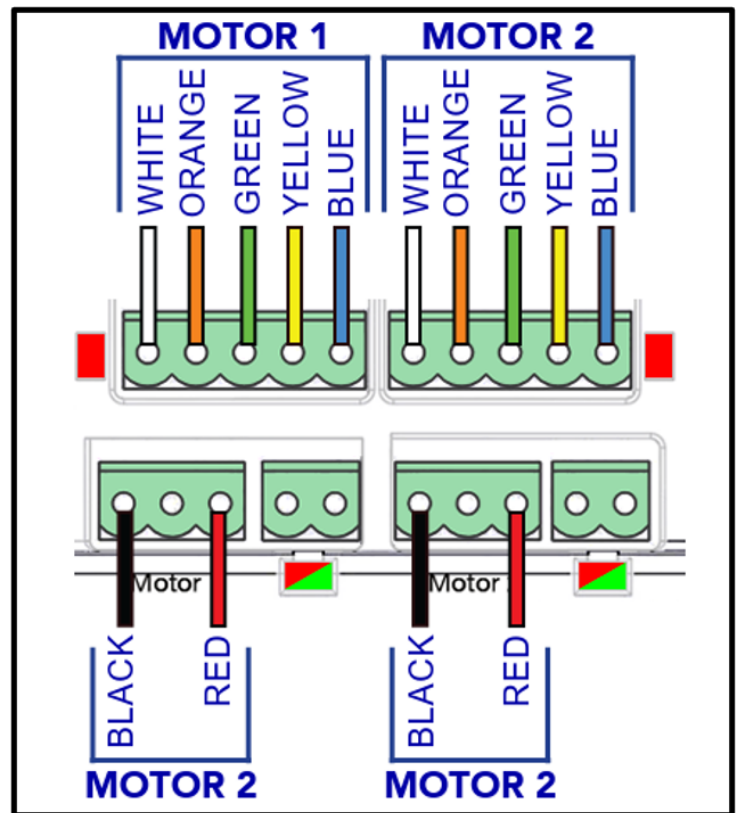
Wiring to the 1050US Controller:

Please refer to the wiring diagrams below to wire the Vanguard operator to the 1050US Controller.

Single Gate Wiring to 1050US



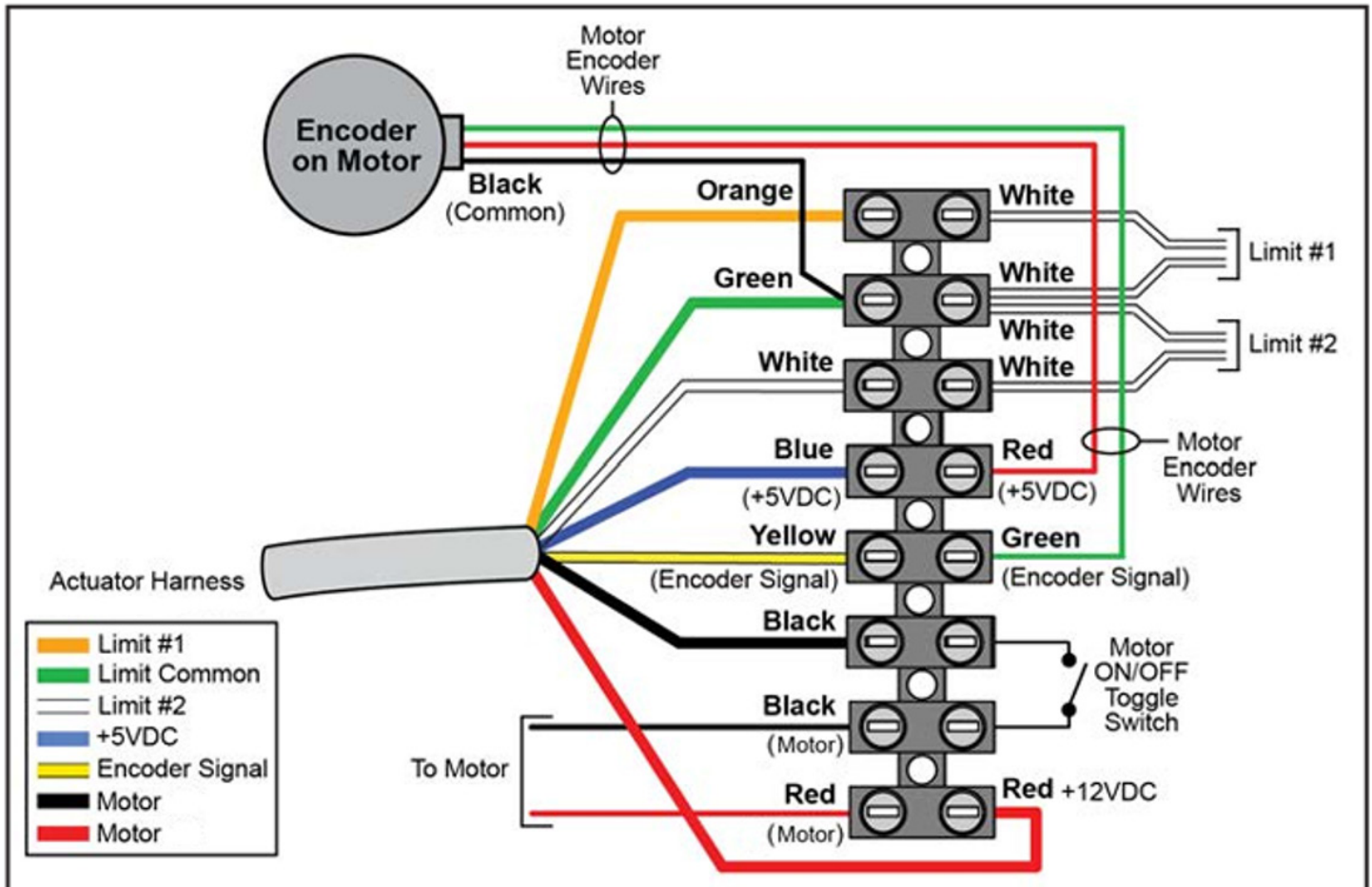
Dual Gate Wiring to 1050US



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Motor Wiring to Terminal Block on Vanguard Operator



Contact Information:

Visit <https://hysecurity.com/technical-support/> for installation manuals, replacement part instructions, part diagrams, and more.

Qualified HySecurity distributors are experienced and trained to assist in resolving installation problems. For the name of a qualified distributor near you, call HySecurity at 800-321-9947.

*Before contacting your distributor or HySecurity Technical Support, obtain the serial number of your operator.