



TECHNICAL BULLETIN

1-800-237-0022

Stock No. V01 - V200 VULCODER - 1 mV/V, 4 PIN, 2 LEAD (5')
PART NO. 56-10124-001

Stock No. V02 - V200 VULCODER - 1 mV/V, 7 PIN, 2 LEAD (5')
PART NO. 56-10124-002

Stock No. V03 - V200 VULCODER - 3 mV/V, 4 PIN, 2 LEAD (5')
PART NO. 56-10124-003

Stock No. V04 - V200 VULCODER - 2 mV/V, 4 PIN, 2 LEAD (5')
PART NO. 56-10124-004

Stock No. V05 - V200 VULCODER - 3 mV/V, 4 PIN, 1 LEAD (5')
PART NO. 56-10124-005

Stock No. V22 - V200 VULCODER - 1 mV/V, 4 PIN, 1 LEAD (5')
PART NO. 56-10124-006

CONCEPT:

The Vulcoder supplies power to the load cells and converts an analog voltage signal from the load cells to a digital signal which is sent back to the meter over the same "two wire" cable.

APPLICATION:

The V200 Vulcoder works only with the V200 Meter. The V200 Vulcoder works with all Vulcan load cells.

DESCRIPTION:

The Vulcoder receives the weight as an analog voltage signal from the load cells through a shielded, polyurethane jacketed, four conductor cable. The Vulcoder converts this to a digital signal and transmits it to the meter over the same "two wire" cable. The "two wire" system between the Vulcoder and the meter provides high noise immunity, long term stability and allows field repairs by twisting broken wires together and securely wrapping with common electrical tape. The cables from the Vulcoder to the load cells have military style, waterproof connectors that resist the most extreme weather conditions.



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SPECIFICATIONS:

- Size: 3.5" Wide x 3.5" Deep x 1" High
- Operating Temp: -40 to 180 degrees Fahrenheit.
- 4 Wire Cable: Custom shielded, polyurethane jacketed 4 conductor, drain wire, 5' lengths standard.
- 2 Wire Cable: Custom urethane jacketed designed to be flexible in cold weather, 45' lengths.
- Connectors: MS3106A type.
- Mounting: Through holes in mounting flange.
- Signal Input Range: 1 mV/V, 2 mV/V, 3 mV/V.
- Specialty Vulcoders: 1 mV/V with 7-pin connector.
2 mV/V and 3 mV/V for high output load cells. (4-pin connector)

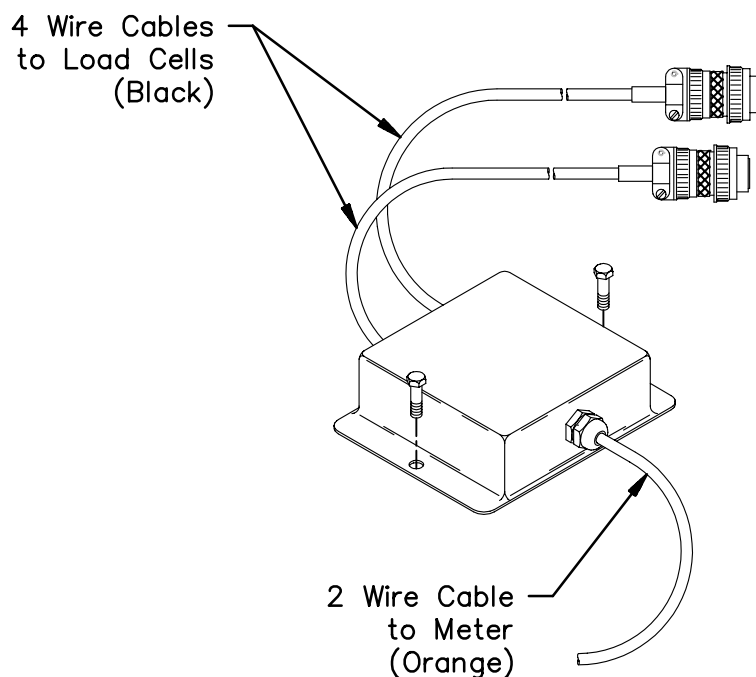


FIG 127-A



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INSTALLATION:

Tape Vulcoder connectors prior to routing cabling to avoid contamination. Mount Vulcoder on inside of truck frame rail or next to a structural member. Mounting surface must be in an area protected from road or hauling debris.

Route black cable to load cells. (**Do not** trim black cable to length). **Important:** Check connectors to make sure they are clean and dry. Turn meter off while making any wire connections. **Do not** get moisture, contact cleaner, or any other substance inside of connectors.

Check Vulcoder connector(s) for O-ring. The O-ring prevents moisture from entering the load cell connector. Attach Vulcoder cable connectors to bulkhead connectors on load cells. Install connectors finger tight plus an additional 1/8 of a turn using channel lock pliers. **Caution:** Do not over tighten the connectors, this can damage them. The additional tightening is necessary to compress the O-ring.

Route orange Vulcoder cable to cab. On truck / trailer connection, these wires may be routed using the existing truck / trailer wire harness if **two unused, ungrounded** wires are available. Additionally, you may follow the existing wire harness and use a separate connector of your choice between the truck and trailer. For additional electronic installation notes and system operational procedures, see the "*V200 Vulcan Operation And Maintenance Manual*".