



Spectra Series™ Power Panelboards

Type ANKN Neutrals (Model 1)



WARNING: Danger of electrical shock or injury. Turn OFF power ahead of the panelboard or switchboard before working inside the equipment or removing any component. Equipment is to be installed and maintained by properly trained and qualified personnel only.

Installation

If a bonding strap is required for service, begin with step 1. If a bonding strap is not required, begin the installation with step 2.

1. Insert the short leg of the bonding strap through the large hole in the mounting plate. Position the hole in the strap over the threaded hole in the bottom of the neutral. Secure with the $1/4\text{-}20 \times 1/2"$ screw, flat washer, and conical washer provided. Squeeze the screw down but do not tighten it yet. To position the bonding strap, place the neutral assembly onto the mounting studs inside the enclosure and line up the long leg of the bonding strap with the appropriate hole in the box back. While maintaining the strap orientation, remove the neutral assembly and tighten the bonding strap to 45–50 in.-lbs.

NOTE: If the box is painted, scratch through the paint in the area where the bonding strap contacts the enclosure.

2. Mount the neutral at either location in the end of the panelboard enclosure marked "NEUTRAL", as shown in Figure 1. Place the neutral over the $1/4\text{-}20$ mounting studs and secure with the flat washer, lock washer, and nut provided, as shown in Figure 2. Tighten the nut to 27–32 in.-lbs.
3. Fasten the opposite end of the neutral to the enclosure with the two $\#10\text{-}32 \times 11/16"$ thread-forming screws provided. Tighten to 27–32 in.-lbs. Figure 3 shows the neutral mounted to the back wall of the enclosure.
4. Secure the bond strap to the enclosure with the $\#10\text{-}32 \times 3/8"$ SEMS screw provided. Tighten to 27–32 in.-lbs.
5. Install the wire barrier into the neutral base, with the flange side facing the neutral bus, as shown in Figure 3. The Spectra Series™ label is located on the side of the wire barrier opposite the flange.
6. Press the wire barrier down firmly until the neutral base restraining clip locks the wire barrier into place.



Figure 1. Neutral mounted in the enclosure.



Figure 2. Mounting the neutral onto the enclosure studs.

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Julia Schneider

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1. Understanding the eBook 20kia Manual Spectra
 - The Rise of Digital Reading 20kia Manual Spectra
 - Advantages of eBooks Over Traditional Books
2. Identifying 20kia Manual Spectra
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 20kia Manual Spectra
 - User-Friendly Interface
4. Exploring eBook Recommendations from 20kia Manual Spectra
 - Personalized Recommendations
 - 20kia Manual Spectra User Reviews and Ratings
 - 20kia Manual Spectra and Bestseller Lists
5. Accessing 20kia Manual Spectra Free and Paid eBooks

- 20kia Manual Spectra Public Domain eBooks
- 20kia Manual Spectra eBook Subscription Services
- 20kia Manual Spectra Budget-Friendly Options

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- ePUB, PDF, MOBI, and More
- 20kia Manual Spectra Compatibility with Devices
- 20kia Manual Spectra Enhanced eBook Features

7. Enhancing Your Reading Experience

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- Highlighting and Note-Taking 20kia Manual Spectra
- Interactive Elements 20kia Manual Spectra

8. Staying Engaged with 20kia Manual Spectra

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers 20kia Manual Spectra

9. Balancing eBooks and Physical Books 20kia Manual Spectra

- Benefits of a Digital Library
- Creating a Diverse Reading Collection 20kia Manual Spectra

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine 20kia Manual Spectra

- Setting Reading Goals 20kia Manual Spectra
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 20kia Manual Spectra

- Fact-Checking eBook Content of 20kia Manual Spectra
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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