

# **Ethernet<sup>®</sup> Adapter Installation Instructions**



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## Description

The Ethernet® Adapter module (Model EP/2-EA) is connected to Novar Controls' Executive Processor 2 (EP/2) to allow the EP/2 to communicate over a Local Area Network (LAN) that uses Ethernet hardware and software. The Ethernet network provides the capability for multiple EP/2s, Novar Controls workstations, and other devices to communicate with each other across the network. By communicating with an EP/2 through Ethernet, any properly configured personal computer can access real-time, online data from the Logic One® system.

The EP/2 requires a PROM level of 18.20 or greater and a download version of 18.20 or greater to use the Ethernet Adapter.

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## Specifications

### Operating Environment

Temperature: 32° to 140°F (0° to 60°C)  
Humidity: 0 to 95% Relative, noncondensing

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### Physical Dimensions

Height: 7 inches  
Width: 3.63 inches  
Depth: 1 inch  
Weight: 8 oz (All aluminum enclosure)

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## Precautions

Observe all national and local electrical codes during installation.

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## Mounting the Ethernet Adapter

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**CAUTION!** Remove the EP/2 electronics assembly *before* mounting the Ethernet Adapter to the EP/2 baseplate.

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The following items are needed for installation:

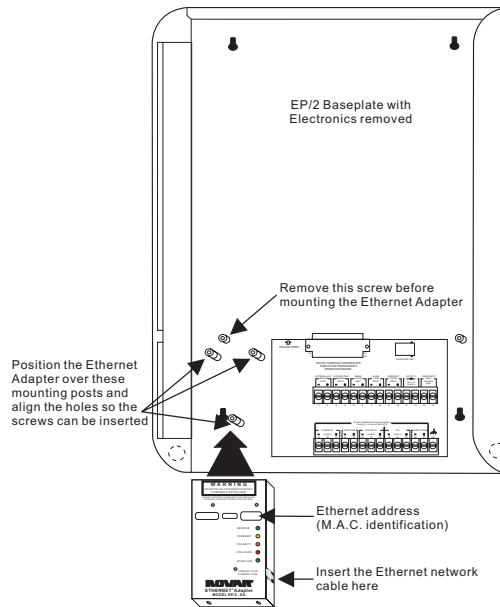
- Ethernet Adapter
- Three 1-inch screws (included with the adapter's hardware kit)
- A twisted-pair, Ethernet-compatible cable (10Base-T) with an RJ-45 connector.

The adapter should be mounted inside the EP/2 baseplate enclosure, to the left of the EP/2's transition board (see Figure 1).

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**NOTE!** Complete the installation procedures in the order they are presented in these instructions. Varying from these instructions could result in damage to the Ethernet Adapter and/or the EP/2.

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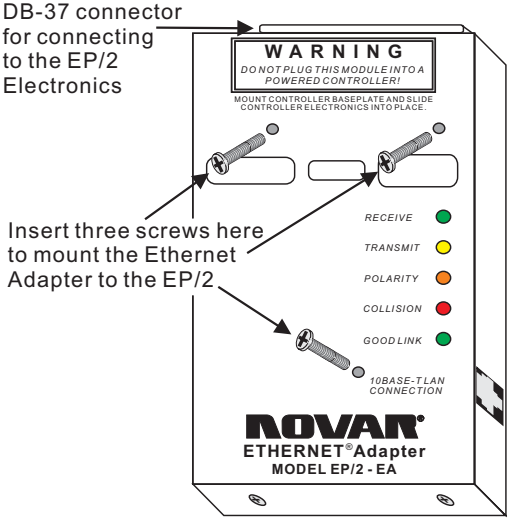
**Figure 1.** Ethernet Adapter Module Installation

**NOTE!** The knockout hole on the left side of the EP/2 baseplate will be blocked by the Ethernet Adapter. If wires run through this hole, they must be rerouted. Do *not* route them under the adapter. The Ethernet Adapter must sit firmly against the baseplate to ensure a proper connection.

Use the following procedure to mount the Ethernet Adapter to the baseplate of the EP/2.

Step	Procedure
1	Use the hex wrench that came with the hardware kit to loosen the two screws at the bottom of the EP/2 baseplate and lift off the cover.
2	Loosen the retaining screws in the two mounting posts on which the EP/2 electronics assembly sits. <ul style="list-style-type: none"> <li>■ Completely remove the screw from the left mounting post (as indicated in Figure 1).</li> </ul> <hr/> <p><b>NOTE!</b> The Ethernet Adapter and the EP/2 electronics assembly will not connect properly unless the left mounting post screw is removed and the adapter is installed before the electronics assembly is returned to the EP/2 baseplate.</p> <hr/>
3	Slide the EP/2 electronics assembly up and away from the lip at the top of the baseplate and set it aside.

*continued*

Step	Procedure
4	Align the adapter's three mounting holes with the three mounting posts (shown in Figure 1) and carefully push the adapter toward the baseplate.
5	<p>Insert the three 1-inch screws included with the mounting kit (see Figure 2), making certain that they are aligned correctly, and tighten (using a Phillips screwdriver) to ensure the adapter is mounted securely.</p>  <p>DB-37 connector for connecting to the EP/2 Electronics</p> <p>Insert three screws here to mount the Ethernet Adapter to the EP/2</p> <p>10BASE-T LAN CONNECTION</p> <p>RECEIVE (green) TRANSMIT (yellow) POLARITY (orange) COLLISION (red) GOOD LINK (green)</p> <p><b>NOVAR</b> ETHERNET® Adapter MODEL EP/2 - EA</p>

**Figure 2.** Mounting screw locations on the Ethernet Adapter

## Making Connections to the Ethernet Adapter

Use the following procedure to connect the Ethernet Adapter to the EP/2.

Step	Procedure
1	Insert the RJ-45 connector from the Ethernet network cable into the port on the right side of the Ethernet Adapter (see Figure 1).
2	Slide the EP/2 electronics assembly over the lip at the top of the baseplate and down over the mounting posts.
3	<p>Locate the DB-37 connector on the top of the adapter, carefully align the pins, and guide the DB-37 connectors on the EP/2 electronics assembly over the connector on the Ethernet Adapter and over the connector on the transition board of the EP/2.</p> <ul style="list-style-type: none"> <li>■ Do not force the connection.</li> </ul>

*continued*

Step	Procedure
4	<p data-bbox="639 254 1357 342">Use the hex wrench to tighten the retaining screw in the mounting post on the right side to secure the EP/2 electronics assembly to the baseplate.</p> <ul data-bbox="639 363 1338 422" style="list-style-type: none"><li data-bbox="639 363 1338 422">■ The left retaining screw cannot be used with the Ethernet Adapter installed.</li></ul>

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### Checking Installation

To check the installation, monitor the five status light-emitting diodes (LEDs) on the face of the Ethernet Adapter.

- The Good Link status LED will blink once when power is supplied to the EP/2. After several seconds it will remain lit, indicating that the network is correctly wired and configured and working properly.
- The Polarity status LED, when lit, indicates that the network wiring polarity is reversed. The adapter will continue to function. Check the Ethernet network cable wiring and correct the polarity.
- The Receive and Transmit status LEDs flash on and off intermittently to show that communication is occurring if the EP/2 is communicating with the LAN.
- The Collision status LED blinks occasionally during normal communications. If this LED blinks often or stays on for long periods it indicates a problem.

Monitor the Ethernet network's operation on the EP/2's display. Refer to Novar's Controls *EP/2 Keypad and Display Instructions* (Document No. 5601190).

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