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> Appleton FDB-1L FD Device Box Instruction Manual

## Appleton FDB-1L

# Appleton FDB-1L FD Device Box Instruction Manual

Model: FDB-1L

## 1. INTRODUCTION

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This manual provides essential information for the safe and proper installation, usage, and maintenance of the Appleton FDB-1L FD Device Box. This product is a 1-gang, dead-end, Type FD cast malleable iron electrical box designed for various electrical wiring applications. Please read these instructions thoroughly before proceeding with installation or use.

## 2. SAFETY INFORMATION

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**WARNING:** Electrical work should only be performed by qualified personnel. Failure to follow these instructions can result in electric shock, fire, or serious injury.

- Always disconnect power at the main circuit breaker or fuse box before installing or servicing any electrical components.
- Ensure all wiring complies with national and local electrical codes (e.g., NEC, CEC).
- Use appropriate personal protective equipment (PPE) such as insulated gloves and safety glasses.
- Verify that the product is suitable for the intended environment and application.
- Do not modify the device box. Any modifications may compromise its integrity and safety.

## 3. PRODUCT OVERVIEW

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The Appleton FDB-1L is a robust, single-gang device box constructed from malleable iron, designed for durability and protection in demanding environments. It features a 3/4 inch opening for conduit connections and is suitable for dead-end applications.



*Figure 1: Internal view of the Appleton FDB-1L FD Device Box, showing the interior cavity and mounting screw holes.*



*Figure 2: Side view of the Appleton FDB-1L FD Device Box, illustrating its compact design and conduit entry point.*



Figure 3: Rear view of the Appleton FDB-1L FD Device Box, displaying the "APPLETON UNILETT TYPE FD" marking.



Figure 4: Another side view of the Appleton FDB-1L FD Device Box, highlighting its robust construction.

#### 4. SETUP AND INSTALLATION

Follow these steps for proper installation of the Appleton FDB-1L FD Device Box:

1. **Preparation:** Ensure power is disconnected. Gather necessary tools including conduit, connectors, mounting hardware, and wiring devices.
2. **Mounting:** Securely mount the device box to a stable surface using appropriate screws or bolts through the designated mounting holes. Ensure the box is level and firmly attached.
3. **Conduit Connection:** Connect the 3/4 inch conduit to the box opening. Use approved conduit connectors to ensure a secure and watertight seal, if required by the application.
4. **Wiring:** Route electrical wires into the box through the conduit. Leave sufficient wire length for connections.
5. **Device Installation:** Install the desired wiring device (e.g., switch, receptacle) into the box, making all necessary electrical connections according to the device manufacturer's instructions and local codes.
6. **Cover Installation:** Once wiring and device installation are complete, attach the appropriate cover (sold separately) to the device box, ensuring a tight seal.
7. **Final Check:** Before restoring power, visually inspect all connections and ensure the box is properly sealed and secured.

## 5. USAGE GUIDELINES

The Appleton FDB-1L FD Device Box is designed to house electrical wiring devices and protect wiring connections. Adhere to the following guidelines for optimal performance and safety:

- Do not exceed the maximum wire fill capacity specified by electrical codes for this size and type of box.
- Ensure all connections within the box are tight and properly insulated.
- Maintain proper grounding for all electrical devices and the box itself, as required by code.
- The box is designed for specific environmental conditions. Ensure it is not exposed to conditions beyond its rating (e.g., extreme temperatures, corrosive chemicals, excessive moisture unless rated for it).

## 6. MAINTENANCE

The Appleton FDB-1L FD Device Box requires minimal maintenance due to its durable malleable iron construction. However, periodic inspection is recommended to ensure continued safe operation:

- **Visual Inspection:** Periodically inspect the exterior of the box for any signs of physical damage, corrosion, or wear.
- **Seal Integrity:** Check the integrity of any gaskets or seals on the cover to prevent moisture or dust ingress, especially in outdoor or damp locations. Replace if damaged.
- **Connection Check:** If accessible and safe to do so (with power disconnected), periodically check internal wiring connections for tightness.
- **Cleaning:** Clean the exterior of the box as needed with a damp cloth. Avoid abrasive cleaners or solvents that could damage the finish.

## 7. TROUBLESHOOTING

Troubleshooting for a device box primarily involves addressing issues related to its physical integrity or the connections housed within it. Always disconnect power before troubleshooting.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Corrosion on box exterior	Exposure to harsh environments or moisture.	Clean and apply a protective coating if necessary. Ensure proper sealing if in a wet location.
Loose wiring device	Improper mounting or vibration.	Tighten mounting screws. Ensure the box is securely mounted.
Water/dust ingress	Damaged or improperly installed cover/gasket.	Inspect and replace cover or gasket. Ensure conduit connections are sealed.
Electrical issue (e.g., short circuit, no power)	Faulty wiring, loose connections, damaged device.	<i>(With power off)</i> Inspect wiring and connections inside the box. Test the wiring device. Consult a qualified electrician.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	FDB-1L
Brand	Appleton
Material	Malleable Iron
Gangs	1
Conduit Opening	3/4 inch
Type	Cast Box, FD Type, Dead-End
Product Depth	2.690 inches
Item Weight	4 Pounds
Product Dimensions	3 x 3 x 5 inches (approximate)

## 9. WARRANTY AND SUPPORT

Specific warranty information for the Appleton FDB-1L FD Device Box is typically provided by the manufacturer or the point of purchase. Please refer to the documentation included with your purchase or contact Appleton directly for warranty details.

For technical support, installation assistance, or further inquiries, please contact Appleton customer service or your authorized distributor. Always provide the model number (FDB-1L) when seeking support.