

1 | Overview

Use the D344-RT Remote Test/Indicator Plate with a D296/D297 Long-Range Beam Smoke Detector or a D340 Family Duct Smoke Detector Housing (D340/D341/D342). This plate has LEDs to indicate the detectors' status and condition, a point to read and test the sensitivity voltage, and a keyswitch to remotely test and reset the detector. For additional information on installing and wiring the test/indicator plate, see the:

- D296/D297 Installation Instructions
- D340 Installation Instructions
- D341/D342 Duct Smoke Detector Housing Installation Instructions

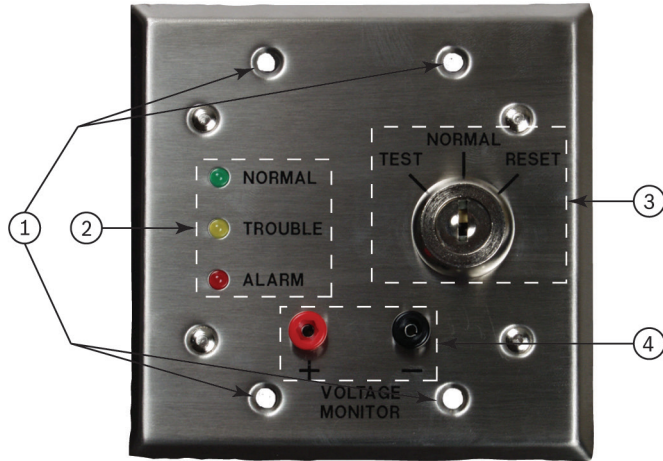


Figure 1.1: D344-RT features

Callout – Description

- | |
|---|
| 1 – Mounting holes (4) |
| 2 – LED status and condition indicators |
| 3 – Normal, test, and reset keyswitch |
| 4 – Sensitivity voltage indicators |

2 | Installation

1. Install the D296/D297 receiver or the duct detector housing to which you want to connect the test/indicator plate and ensure the detector is working properly.
2. Install a standard double wire-mold box within 100 ft (30.5 m) from the D296/D297 receivers or 500 ft (152 m) from the D340 Family housings.
3. Run the wiring from the receiver or duct housing to the wire-mold box using 18 AWG (ISO 0.75 mm²) or larger wire. Eight conductors are required between the D296/D297 receiver or the D340 Family housings and the test/indicator plate. For detailed wiring information, see the pertinent detector/housing Installation Instructions.



NOTICE!

Before routing any wire, ensure all wiring is unpowered.

2.1 | Single D296/D297 installation

1. Connect all wiring between the test/indicator plate and the D296/D297 receiver. For detailed wiring information, see the Wiring a remote indicator section of the D296/D297 *Installation Instructions*.
2. Apply power and observe the LEDs. The green LED lights steadily for 60 s to 120 s and then flashes. For a complete description of the LED indicator meanings, see the Troubleshooting section of the D296/D297 *Installation Instructions*.

2.2 | Multiple D296/D297 installation

1. Connect all wiring between the test/indicator plate and each D296/D297 receiver. For detailed wiring information, see the Wiring a remote indicator section of the D296/D297 *Installation Instructions*.
2. Apply power and observe the LEDs on each test/indicator plate. The green LED lights steadily for 60 s to 120 s and then flashes. For a complete description of the LED indicator meanings, see the Troubleshooting section of the D296/D297 *Installation Instructions*.

2.3 | D340 Family installation

1. Remove the smoke detector head from the duct detector housing.
2. Insert the test coil under the smoke detector base, rotating the coil until screw hole is aligned with the mounting plate as shown in Figure 2.1: Test coil installation.
3. Using one of the mounting screws, attach the test coil to the smoke detector base as shown in Figure 2.2: Mounting screw installation.
4. Re-install the smoke detector head.
5. Connect the wiring harness by attaching the connector with three wires to the smaller connector from the D340 Family housing's Power Card and attaching the connector with one wire to the connector located on the side of the detector head as shown in Figure 2.3: Wiring harness connection.
6. Connect all wiring between the test/indicator plate and the D340 Family housing. For detailed wiring information, see the D344-RT wiring section of the pertinent D340 Family *Installation Instructions*.

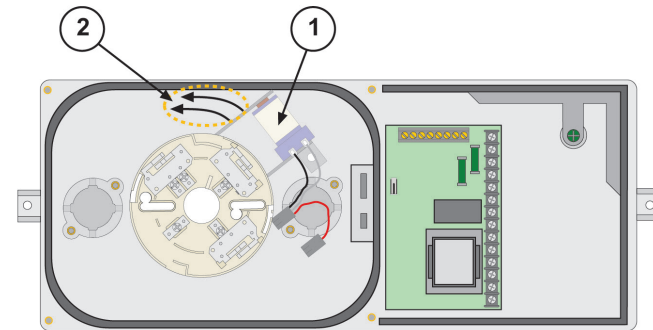


Figure 2.1: Test coil installation

Callout – Description

- | |
|--|
| 1 – Test coil |
| 2 – Rotate the test coil counterclockwise to align screw with mounting plate |

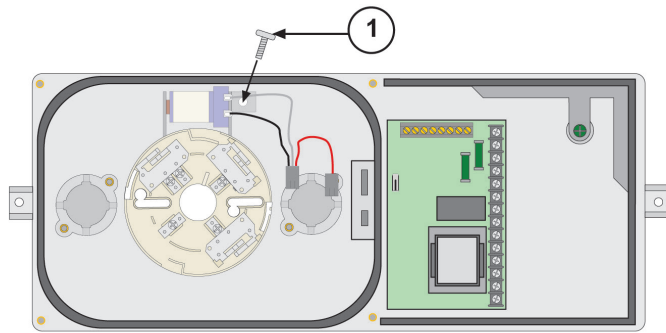


Figure 2.2: Mounting screw installation

Callout – Description

1 – Test coil mounting screw

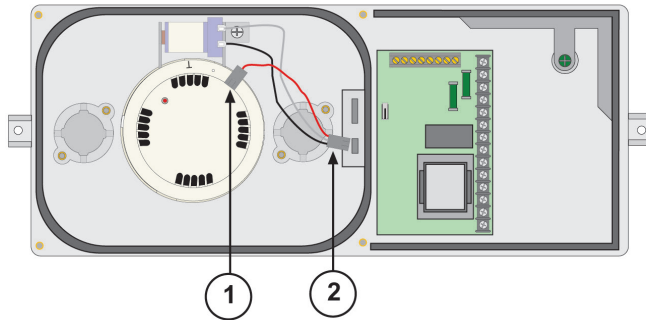


Figure 2.3: Wiring harness connection

Callout – Description

1 – Connector with one wire

2 – Connector with three wires

3 | Specifications

| Environmental | |
|---|---|
| Temperature (operating) | -22°F to +130°F (-30°C to +54°C) |
| For UL Listed requirements, the operating temperature range is +32°F to +100°F (0°C to +37.8°C) | |
| Power | |
| Current | alarm: 15 mA at 24 VDC standby: 5 mA at 24 VDC |
| Voltage | 10 VDC to 32 VDC, 24 VDC nominal |

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Remote Test/Indicator Plate

D344-RT



en Installation Guide

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