This guide provides basic instructions for an experienced technician to install the Extron® Cable Retraction System for Cable Cubby® Enclosures. Additional instructions are available in the Cable Retraction System User Guide available online at www.extron.com.

### Planning

The retractors can be mounted horizontally or vertically depending upon the under-table clearance and accessibility. **Horizontal mounting** is recommended to provide maximum legroom and to protect the retractor against accidental damage. **Vertical mounting** is used where insufficient under-table space exists for horizontal mounting or where there is limited under-table access for installation.

- For horizontal mounting, an optional mounting bracket kit, part #70-678-00, is required.
- If fewer than three retractors are being installed, one or two filler modules, part #70-678-08, are required.
- For Cable Cubby 200 applications, the CC 200 Mounting Bracket Kit, part #70-678-10, is required. Mounting instructions are included with the kit and are also available online.

Both kits and the filler module are available at www.extron.com.

When determining the best location for the enclosure, keep in mind the under-table space required for the retractors. Once the optimal mounting location for the Cable Cubby is determined, follow the instructions for cutting a hole in the table (if necessary), mounting the enclosure, and installing the retractors, AAPs and power module.

If there will be no under-table access after the Cable Cubby enclosure is mounted, the retractor system must be installed before the enclosure is mounted (see "Alternative Solution — Drop-in Installations"). Otherwise the enclosure may be mounted, then the retractor system installed from underneath.

### Required Tools and Additional Accessories

- **Tweaker**
- **Marker Pen**
- **Hex Nut Driver (10 mm)**
- **Phillips Screw Driver**
- **Adjustable Wrench**
- **Tape Measure**
- **Zip Ties**
- **Horizontal Mounting Bracket (Optional) Part #70-678-00**
- **Filler Module (Optional) Part #70-678-08**
- **CC 200 Mounting Bracket (Optional) Part #70-678-10**

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[Image of the Cable Retraction System mounted in a horizontal position]

15-pin HD Cable Audio Cable Network Cable

Cable Cubby 300C

Extron Cable Retractable System Mounted in Horizontal Position
Getting Started — Determine Under-table Clearances

The retractable system will be mounted against the Cable Cubby enclosure wall. The two diagrams, “Horizontal and Vertical Mounting Clearance”, show the clearance required for retractor installation.

**NOTE:** To prevent objects from impeding cable retraction, ensure at least 3 inches of clearance from the exposed cable side of the enclosure.

**For new installations:**
Choose the optimal furniture mounting location for the Cable Cubby enclosure. The final location may require some adjustment depending upon under-table clearances for the retractors.

**For retrofit installations:**
For most installations the Cable Cubby enclosure does not require removal. Disconnect all power to the Cable Cubby before retractor installation.

**All installations:**
Except for drop-in installations, the retractors can be mounted from below the Cable Cubby enclosure.

**Horizontal Mounting:** Be certain the horizontal mounting bracket can be fastened under the table or on a table support without binding the retractor system or forcing it from perpendicular (See “Top View”, below) with the enclosure.

**Vertical Mounting:** Ensure the retractor can hang freely without touching the floor and is not obstructed by anything under the table. The retractor requires about 24 inches (61 cm) from the furniture topside to clear the floor.

Clear the area under the furniture to provide working space.

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**Getting Started — Prepare the Enclosure**

**All installations:**
Filler modules, if used, take up the same space as one retractor.

**WARNING:** Remove all power from the Cable Cubby enclosure before beginning a retractor system installation.

**Retrofit installations:**
- Prepare the AAP spaces for the retractors ensuring sufficient under-table clearance for the system.
- Relocate or remove existing AAPs to allow room for the retractor system.

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**Horizontal Mounting Clearance**

- 1.6” (4.1 cm)
- 9.1” (23.0 cm)
- 15.3” (38.9 cm)
- 16.8” (42.6 cm)
- 3.0” (7.6 cm)

**Vertical Mounting Clearance**

- 3.0” (7.6 cm)
- 23.4” (59.3 cm)
- 3.0” (7.6 cm)

**Top View**

- UNSWITCHED 100-240V/ 5AMAX
- UNSWITCHED 100-240V/ 5AMAX

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**Retractors**

- Retractors must be mounted on either side and with cable release buttons against enclosure wall.
- Check for adequate cable clearance inside Cable Cubby enclosure.
- Retractors take two AAP spaces.

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**When installing fewer than three retractors on a side, use filler modules.** (part #70-678-08)
Installation

By now you should be certain the system has adequate under-table clearance for the retractors and that proper legroom has been provided to avoid accidental contact with the system.

1. With the cable release buttons against the enclosure wall, install the retractable system by pushing the system up and into the enclosure.

2. Press the mounting bolt through the second hole from the edge of the Cable Cubby enclosure, through the retractable system, then out the other side of the enclosure.

3. Thread the nut on the bolt and tighten.

   **CAUTION:** Do not overtighten the enclosure mounting bolt. Overtightening could deform the retractor housing and cause misalignment of the pulley wheels resulting in malfunction.

4. Connect retractable system cables and other AAP cables (if installed).

5. If horizontally mounting the retractors, proceed to "Horizontal Bracket Mounting".

6. For vertical mounting, see "Locking Screw (Optional)" for final installation details.
Horizontal Bracket Mounting

NOTE: For vertical mounting, skip this section.

For horizontal mounting the horizontal mounting bracket, (part #70-678-00), must be used. The slotted mounting bolt holes allow for tolerance in placing the bracket.

To ensure accuracy follow these procedures:

1. Attach the horizontal mounting bracket to the retractor end caps using the provided bolt and nut.

   TIP: Hand tighten the nut enough to keep the bracket from easily moving. The bolt and nut will be removed later.

2. Raise the retractors with attached bracket to the desired mounting location.

   NOTE: Be certain the system is perpendicular to the enclosure (see page 2, Top View) to prevent binding between the tension pulley and stationary pulley.

   Trace a line around the bracket perimeter.

3. Lower the assembly and remove the horizontal bracket from the retractors.

4. Position the bracket inside the lines drawn in Step 2 and fasten into the wooden table with the supplied screws.

   NOTE: Ensure the screws do not pierce through the top of the table. If the table is too thin or of a different material for the supplied screws, use an appropriate type and length.

5. Raise the retractor system up into the installed bracket, run the shoulder bolt through the bracket and end caps, and secure with the supplied nut.
### Alternative Solution — Drop-in Installations

When installing the retractor system where under-table access is limited, vertical mounting is required. See "Determine Under-table Clearances" to be certain there is enough room for vertical installation and "Prepare the Enclosure" to determine the location of the retractor system in the Cable Cubby enclosure.

The retractors must be installed before dropping the enclosure into the table.

1. For retrofit installations, remove the Cable Cubby enclosure from the furniture before mounting the retractors. For new installations follow the Cable Cubby enclosure preparation instructions but do not mount the enclosure.

2. Install the retractor system in the enclosure following the installation instructions on page 3 and locking screw details above.

   **NOTE:** Connect all cables before lowering the enclosure into the cutout.

3. Once the retractors are installed, lower the enclosure and retractors into the cutout ensuring cables are not pinched and are prevented from kinking or bending.

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### Locking Screw (Optional)

If the retractor system is mounted next to a vacant location in the Cable Cubby enclosure, a locking screw is provided to prevent the retractors from rotating on their mounting bolt during operation.

If needed, tighten the locking screws to prevent movement of the retractor. There is one locking screw for each retractor.

**NOTE:** Do not overtighten. The locking screw need only be snug.
Under-table Connections and Adjustments

If the cable on the Cable Cubby end does not retract completely into the retractor, or its length does not allow the Cable Cubby lid to be closed, refer to the "Cable Tension Adjustments" section of the user guide.
For normal maintenance, refer to "Maintenance and Modifications" in the user guide.
Excess cabling may cause clearance issues. Use wire ties to secure excess cabling out of the way.

Quick Installation Checklist

Planning (page 1)
- If necessary, obtain a mounting bracket for horizontal mounting.
- If installing fewer than 3 retractors obtain filler modules.
- For Cable Retraction System installation obtain the CC 200 bracket kit.
- Gather any additional tools needed for installation.

Determine under-table clearances (page 2)
- For new installations choose the optimal furniture mounting location.
  - Choose retractor orientation:
    - Horizontal mounting: Ensure horizontal bracket location is adequate.
    - Vertical Mounting: ensure the retractor hangs freely.
- For retrofit installations, disconnect all power to the Cable Cubby.

Prepare the Cable Cubby enclosure (page 2)
- Determine AAP location for retractors.
- Relocate or remove existing AAPs to make room for the retractors.

Install the retractors (pages 3-5)
- For horizontal mounting remove the retractor enclosure screws (page 3).
- Push the retractors up and into the Cable Cubby enclosure and fasten with mounting bolt and nut (page 3).
- Connect all retractor and AAP cables (page 3).
- For horizontal mounting, determine the bracket mounting location and install the bracket (page 4).
- Tighten the locking screws (optional) (page 5).