I-Line™ Bolt-On Tap Box

PTBx, Rated IP54 (800–1600 A)

Class 5630

Instruction Bulletin

45225-945-01A
07/2017

Retain for future use.
Hazard Categories and Special Symbols

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this bulletin or on the equipment to warn of hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

<table>
<thead>
<tr>
<th><strong>DANGER</strong></th>
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<tr>
<td><strong>DANGER</strong> indicates a hazardous situation which, if not avoided, will result in death or serious injury.</td>
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<th><strong>WARNING</strong></th>
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<tr>
<td><strong>WARNING</strong> indicates a hazardous situation which, if not avoided, could result in death or serious injury.</td>
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<th><strong>CAUTION</strong></th>
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<tr>
<td><strong>CAUTION</strong> indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.</td>
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<th><strong>NOTICE</strong></th>
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<tr>
<td><strong>NOTICE</strong> is used to address practices not related to physical injury. The safety alert symbol is not used with this signal word.</td>
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NOTE: Provides additional information to clarify or simplify a procedure.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. This Class A digital apparatus complies with Canadian ICES-003.
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Section 1—Introduction

This bulletin contains instructions for handling, storing, installing, operating, and maintaining Square D™ brand I-Line™ Cable Tap Boxes (rated IP54, 800–1600 A) manufactured by Schneider Electric. The purchaser’s engineering, installation, and operating staff supervisors should familiarize themselves with this bulletin and become acquainted with the appearance and characteristics of the equipment. Read and understand this bulletin completely before performing the installation, operation, and maintenance steps provided herein.

Section 2—Safety Precautions

Standard Application Precautions

⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E, NOM-029-STPS, or CSA Z462.
- This cable tap box must be installed and serviced only by qualified electrical personnel.
- Follow the safety label instructions on the equipment and inside this bulletin.
- Turn off power to busway before installing or removing the cable tap box.
- Always use a properly rated voltage sensing device at all connections to confirm that the power is off.
- Do not install cable tap box onto I-Line II 800 A copper busway.
- Do not install, operate, or remove the cable tap box with the cover open or removed.
- Only install 3-pole devices on 3-pole busway. Only install 4-pole devices on 4-pole busway. Only install a device onto busway with a “G” in the suffix of the catalog number.
- Turn off power to the busway before opening or working inside the enclosure.
- Use a continuity tester or 1000 Vdc maximum megohmmeter to ensure phase-to-phase, phase-to-neutral, and ground isolation.
- Before replacing the covers, carefully inspect the unit to ensure no tools or objects have been left inside the equipment.

Failure to follow these instructions will result in death or serious injury.
Section 3—Receiving, Handling, and Storage

Receiving

Upon receipt, check the packing list against the equipment received to ensure the order and shipments are complete. Claims for shortages or errors must be made in writing to Schneider Electric within 60 days of delivery. Failure to give such notice will constitute unqualified acceptance and a waiver of all such claims by the purchaser.

Immediately inspect the equipment for any damage that may have occurred during transit. If damage is found or suspected, file a claim with the carrier immediately and notify Schneider Electric. Delivery of equipment to a carrier at any of the Schneider Electric plants or other shipping points constitutes delivery to the purchaser regardless of freight payment and title. All risk of loss or damage passes to the purchaser at that time.

For details concerning claims for equipment shortages and other errors, refer to Schneider Electric’s “Terms and Conditions of Sale.”

Handling

Handle cable tap boxes with care to avoid damaging internal components and the enclosure or its finish. Avoid subjecting cable tap boxes to twisting, denting, dropping, or any other rough handling. Use nail-pullers when unpacking wooden crates. Ensure the equipment at the installation site is adequate to handle the cable tap box. If using a forklift, position the cable tap box on the forks to distribute the weight properly.

Take care not to damage the metal housing. Avoid using objects with sharp edges to lift the cable tap box. Never drag the cable tap box.

Storage

NOTICE

POTENTIAL EQUIPMENT CONTAMINATION

- Store the equipment in a clean, dry location.
- Protect the equipment from contaminants such as water, salt, concrete, and other corrosive environments.

Failure to follow these instructions can result in equipment damage.

If the cable tap box is not going to be installed and energized immediately, store it indoors in a clean, dry place with a uniform temperature. Protect the unit from contaminants such as water, salt, concrete, and other corrosive elements.

Refer to NEMA bulletin BU1.1 for additional handling and storage instructions.
Section 4—Installing the Cable Tap Box Onto the Busway

Standard Application Precautions

⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E, NOM-029-STPS, or CSA Z462.
- This cable tap box must be installed and serviced only by qualified electrical personnel.
- Turn off the power to busway before installing the cable tap box onto the busway.
- Turn off the power to busway before opening or working inside the enclosure.
- Always use a properly rated voltage sensing device at all connections to confirm that the power is off.
- Do not install the cable tap box onto I-Line II 800 A copper busway.
- Do not install the cable tap box with cover open or removed.
- Only install 3-pole devices on 3-pole busway. Only install 4-pole devices on 4-pole busway. Only install a device onto busway with a “G” in the suffix of the catalog number.
- Use a continuity tester or 1000 Vdc maximum megohmmeter to ensure phase-to-phase, phase-to-neutral, and ground isolation.
- When installing cables into tap box lugs, note that the neutral bar of the busway is always opposite the side of the busway having the “top” label.

Failure to follow these instructions will result in death or serious injury.
Horizontal Mounting Instructions

NOTE: Refer to the safety statements at the beginning of “Standard Application Precautions” on page 7.

To ensure proper electrical connections to the busway, the plug-in jaws are coated with a special oxide-inhibiting joint compound. Do not remove this compound. If the joint compound becomes contaminated, order replacement compound (part number PJC7201) from your local Schneider Electric distributor.

Preparing the Busway Before Installing the Hanger and Cable Tap Box

Refer to Figure 1 and steps 1–9 to prepare the busway before installing the hanger and the cable tap box.

1. Turn off the power to the busway.
2. Insert a flat blade screwdriver (1) into the slot in the door, and release the door's hook-latch fastener.
3. Swing the door (2) completely open.
4. Loosen and remove the two mounting screws (3) holding the base. Do not discard the hardware. Remove the base/door assembly.
5. To retain the hardware, place the two mounting screws in their mounting holes in the base and close the door.
6. Inside the cable tap box are sections of hook and loop fastener. Remove the paper backing of the portion not attached to the enclosure and apply the fastener to the flat surface of the door of the base/door assembly removed in step 4.
7. To retain the base/door assembly for future use, press the entire assembly against the portion of hook and loop fastener attached to the enclosure.
8. Close the cable tap box cover.

CAUTION

HAZARD OF LIQUID AND DUST INGRESSION

If covers are removed during installation or maintenance, torque all fasteners with sealing washers to 40–75 lb-in (5–9 N•m) when covers are replaced.

Failure to follow these instructions can result in injury or equipment damage.

9. Locate the mounting notch (4) on the top of the busway rail, above the left side of the busway plug-in openings. This mounting notch allows the hanger to be positioned correctly onto the busway.

Figure 1 – Preparing the Busway Before Installing the Hanger and Cable Tap Box
Installing the Horizontal Hanger Onto the Busway

Refer to Figure 2 and steps 1–7 to install the horizontal hanger onto the busway.

1. Unfasten the nuts (1).
2. Remove the U-clamps (2).
3. Position the tab of the hanger (3) into the mounting notch of the busway (4) that has been located in step 9 on page 8.
4. Place the U-clamps (2) onto the bolts (5). Ensure that the notch in each U-clamp goes into the flange of the busway.
5. Thread the nuts (1) onto the bolts (5). Tighten the nuts to 125–150 lb-in (14–17 N•m).
6. Position the two threaded rods (6) into the outside slots of the hanger. Fasten both threaded rods to the building structure.

   NOTE: The threaded rods are not included.
7. Place the washers (7) and thread the nuts (8) onto the threaded rod. Ensure the hanger shelf is level and perpendicular to the face of the busway.

   NOTE: The washers and nuts are not provided.

Figure 2 – Installing the Horizontal Hanger onto the Busway
Installing the Cable Tap Box Onto the Busway and Horizontal Hanger

Refer to Figure 3 and Figure 4 below to prepare the cable tap box for installation onto the busway and the horizontal hanger.

1. Make sure the retaining springs (22) are present and placed as shown in Figure 3.
2. Visually verify that lubrication is present in the connector plates (23) and adjust the connector bolt (16) until the gap between the bottom copper plates is 0.40 ± 0.03 in. (10.16 ± 0.76 mm).

**NOTE:** The bottom gap must be maintained to assure proper installation and avoid damage to the insulator during installation.

3. Remove the nuts (12) and the U-clamps (11) from the carriage bolts (10). Place the unit onto the hanger. Ensure the alignment brackets (17) are centered horizontally in the slots (18) in the hanger (Figure 4).
4. Vertically center the alignment bracket (17) on the busway (Figure 5).

5. To adjust the unit up or down, unscrew the bolts (14) one turn. Adjust the unit with the bolts (15) and nuts (8), and then retighten the bolts (14) (Figure 5).

**Figure 5 – Cable Tap Box Vertical Adjustment**

6. Visually verify from below the cable tap box (20) (Figure 7 on page 12) the proper connection alignment of the cable tap box insulator plates (21) and the busway opening with clearance on both sides (Figure 6B). Push the unit on, making sure the clearance is maintained until the unit stops. If resistance is encountered, refer to the hanger installation instructions in “Installing the Horizontal Hanger Onto the Busway” on page 9 and refer to steps 1-5 in “Installing the Cable Tap Box Onto the Busway and Horizontal Hanger” on page 10.

**Figure 6 – Cable Tap Box Horizontal Adjustment**
7. Place the U-clamps (11) onto the busway on the left side of the cable tap box and on the right side of the U-bracket of hanger. Thread the bolts (10) through the slots in the cable tap box bracket (9) and through the holes in the U-clamps (11) (Figure 4 on page 10).

8. Thread the nuts (12) onto the bolts (10), and hand-tighten them (Figure 4 on page 10). Ensure that the left side of the cable tap box U-clamp's notch goes into the flange of the busway, and the right side U-clamps's notch goes into the flange of U-bracket of hanger.

9. Tighten each nut (12) alternately until the alignment bracket (17) touches the busway (4) (Figure 7).

10. If the unit is being installed for the first time, tighten the connector bolt (16) until the outer head breaks off. If the unit is being relocated, tighten the connector bolt to 60–80 lb-ft (81–108 N•m) (Figure 8).
11. After the unit is mounted, install the auxiliary ground kit. See Figure 9 for steps a–d below.
   a. Place the U-shaped bracket (1) on the top flange of the busway with the screw hole facing out at the welded L bracket (3).
   b. Place the bracket (2) on top of the L bracket (3), making sure the mounting holes are lined up. Using a 1 in. (25 mm) long screw (4), connect the bracket (2) to the small bracket (1) and tighten to 50 lb-in (6 N•m).
   c. Ensure the notch in the bracket (2) goes into the flange of the busway.
   d. Using two self-tapping screws (5), connect the bracket (2) to the L bracket (3) and tighten to 50 lb-in (6 N•m).

**Figure 9 – Installing the Auxiliary Ground Kit**

**Continuity Testing Before Energizing the Busway**

1. Use a continuity tester or 1000 Vdc maximum megohmmeter to ensure phase to phase, phase to neutral, and ground isolation.
2. For wiring information, refer to the marking directly on the product.
Vertical Mounting Instructions

NOTE: Refer to the safety statements at the beginning of “Standard Application Precautions” on page 7.

To ensure proper electrical connections to the busway, the plug-in jaws are coated with a special oxide-inhibiting joint compound. Do not remove this compound. If the joint compound becomes contaminated, order replacement compound (part number PJC7201) from your local Schneider Electric distributor.

Preparing the Busway Before Installing the Hanger and Cable Tap Box

Refer to Figure 10 and steps 1–8 to prepare the busway before installing the hanger and cable tap box.

1. Turn off the power to the busway.
2. Insert a flat blade screwdriver (1) into the slot in the door and release the door’s hook-latch fastener.
3. Swing the door (2) completely open.
4. Loosen and remove the two mounting screws (3) holding the base. Do not discard the hardware. Remove the base/door assembly.
5. To retain the hardware, place the two mounting screws in their mounting holes in the base and close the door.
6. Inside the cable tap box are sections of hook and loop fastener. Remove the paper backing of the portion not attached to the enclosure, and apply the fastener to the flat surface of the door of the base/door assembly removed in step 4.
7. To retain the base/door assembly for future use, press the entire assembly against the portion of hook and loop fastener attached to the enclosure.
8. Close the cable tap box cover.

Figure 10 – Preparing the Busway Before Installing the Hanger and Cable Tap Box
Installing the Vertical Hanger Onto the Busway

**NOTE:** If the vertical hanger is being relocated, order a replacement label (part number 45123-897-04) from your local Schneider Electric distributor.

Refer to Figure 11 and steps 1–2 to install the locating label for placing the vertical hanger onto the busway.

1. Remove the bottom bracket (1) from the crate. Locate the alignment label (2) inside the leg of the bracket.
2. Peel the paper backing from the label (2), and attach the label to the busway.

**Figure 11 – Placement of Vertical Hanger Locating Label**
Refer to Figure 12 for steps 3–10.

3. Unfasten the nuts (3), and remove the U-clamps (4) from the bolts (5) on the bottom bracket (1).

4. Place the top edge of the bottom bracket (1) to the bottom line on the label (2). Ensure that the flange on the bracket aligns with the bottom line on the label as shown. Ensure that the flange on the bracket is perpendicular to the busway.

5. Place the U-clamps (4) onto the bolts (5). Ensure that the notch in each U-clamp goes into the flange of the busway.

6. Thread the nuts (3) onto the bolts (5) and tighten to 32–40 lb-ft (43–54 N•m).

7. Unpack mounting strap B and mounting strap C from box 45200-910-50 in the crate.

8. Orient mounting straps B as shown in either Figure 12, A or Figure 12, B according to the ampere rating and type of busway. Align the slot in the U-shaped mounting strap C with the hole in the side of strap B. Bolt together as shown in Figure 12, A or Figure 12, B. Tighten to 17–21 lb-ft (23–28 N•m).

9. Place the strap assembly (6) around the busway. Feed the bolts (7) through the holes in the strap assembly and the slots in the bottom bracket (1).

10. Thread the nuts (8) onto the bolts (7) and tighten to 17–21 lb-ft (23–28 N•m). The bolts and nuts are packed inside box 45200-910-50.

Figure 12 – Vertical Hanger Bottom Bracket Assembly

![Figure A](image1)

![Figure B](image2)
Refer to Figure 13 for steps 11–13.

11. Unpack the support bracket (9) from the crate. Unfasten the nuts (12) and the U-clamps (11) from the bolts (10).

12. Place the top edge of the support bracket (9) at 20.5 in. (521 mm) above the top edge of the bottom bracket (1). Use the “TOP” label on the support bracket as a guide for the correct orientation.

13. Place the bolts (10) through the bracket (9). Place the U-clamps (11) on the bolts. Ensure that the notch in each U-clamp goes into the flange of the busway. Thread and tighten the nuts (12) onto the bolts (10). Tighten each bolt to 32–40 lb-ft (43–54 N•m).

Figure 13 – Vertical Hanger Support Bracket Assembly
Installing the Cable Tap Box onto the Busway and Vertical Hanger

Refer to Figure 14 to prepare the cable tap box for installation onto the busway and the vertical hanger.

1. Make sure the retaining springs (23) are present and placed as shown in Figure 14.
2. Visually verify that lubrication is present in the connector plates (24) and adjust the connector bolt (20) until the gap between the bottom copper plates is 0.40 ± 0.03 in. (10.16 ± 0.76 mm).

**NOTE:** The bottom gap must be maintained to assure proper installation and avoid damage to the insulator during installation.

Figure 14 – Preparing the Plug-In Unit for Vertical Installation

3. Remove the nuts (15) from the hex head bolts (16). Place the unit on the bottom bracket (1) of the hanger (Figure 15).

Figure 15 – Mounting the Vertical Cable Tap Box
4. Horizontally center the alignment brackets (21) on the busway. The alignment brackets should straddle each side of the busway (Figure 16A).

5. Vertically center the throat to the plug-in opening in the busway. To adjust the cable tap box up or down, unthread the locking bolts (18) one turn. Adjust the unit with the bolts (19), and then retighten the locking bolts (18) (Figure 17).

**Figure 16 – Cable Tap Box Horizontal Adjustment**

![Figure 16 – Cable Tap Box Horizontal Adjustment](image1)

6. Visually verify the proper connection alignment of the cable tap box insulator plates (22) (Figure 16B) and the busway opening with clearance on both sides. Push the unit on, making sure the clearance is maintained until the unit stops. If resistance is encountered, refer to the hanger installation instructions in “Installing the Vertical Hanger Onto the Busway” on page 15 and refer to steps 1-5 in “Installing the Cable Tap Box onto the Busway and Vertical Hanger” on page 18.

**Figure 17 – Cable Tap Box Vertical Adjustment**

![Figure 17 – Cable Tap Box Vertical Adjustment](image2)
7. Thread the bolts (16) through the slot in the brackets (17) and through the holes in the support bracket (9) (Figure 15 on page 18).

8. Thread the nuts (15) onto the bolts (16), and tighten them alternately until the alignment bracket straddles each side of the busway (Figure 17 on page 19 and Figure 18).

**NOTE:** Torque should not exceed 15 lb-ft (20 N•m).

*Figure 18 – Cable Tap Box Insertion*

9. If the unit is being installed for the first time, tighten the connector bolt (20) until the outer head breaks off. If the unit is being relocated, tighten the connector bolt to 60–80 lb-ft (81–108 N•m) (Figure 19).

*Figure 19 – Clamping the Electrical Connection*
10. After the unit is mounted, install the auxiliary ground kit. For steps a–d, refer to Figure 20.
   
a. Place the U-shaped bracket (1) on the top flange of the busway with the screw hole facing out at the welded L bracket (3).

b. Place the bracket (2) on top of the L bracket (3), making sure the mounting holes are lined up. Using a 1 in. (25 mm) long screw (4), connect the bracket (2) to the small bracket (1) and tighten to 50 lb-in (6 N•m).

c. Ensure the notch in the bracket (2) goes into the flange of the busway.

d. Using two self-tapping screws (5), connect the bracket (2) to the L bracket (3) and tighten to 50 lb-in (6 N•m).

Figure 20 – Installing the Auxiliary Ground Kit

Continuity Testing before Energizing the Busway

1. Use a continuity tester or 1000 Vdc maximum megohmmeter to ensure phase to phase, phase to neutral, and ground isolation.

2. For wiring information, refer to the marking directly on the product.

3. 

Lug and Wire Size Information

Lugs are suitable for 75 °C copper and aluminum conductors.

For additional lug options, contact your local Schneider Electric representative.

Field modifications of the enclosure (other than the cable entrance holes) are not allowed, as they may adversely affect product performances and the IP54 protection. In order to maintain the IP54 rating of the cable tap box while wiring the unit, IP54 (or higher) rated conduit and cable fittings must be installed.

Cables have to be supported/used in accordance with the following codes (depending on the country location):

• the National Electrical Code (NEC), NFPA 70,
• the Canadian Electrical Code, Part 1 (CE Code, Part 1), or
• the Mexican Standard for Electrical Installations (Utility), NOM-001-SEDE.
Section 5—Removing the Cable Tap Box from the Busway

Standard Application Precautions

**CAUTION**

HAZARD OF LIQUID AND DUST INGRESSION

If covers are removed during installation or maintenance, torque all fasteners with sealing washers to 40–75 lb-in (5–9 N•m) when covers are replaced.

Failure to follow these instructions can result in injury or equipment damage.

**Table 1 – Lug and Wire Size Information**

<table>
<thead>
<tr>
<th>Ampere Rating</th>
<th>Lugs Per Phase and Neutral</th>
<th>Ground Lugs</th>
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<tbody>
<tr>
<td>800</td>
<td>6-1/0–600 kcmil</td>
<td>3-1/0–600 kcmil</td>
</tr>
<tr>
<td>1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td></td>
<td></td>
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<tr>
<td>1350</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1600</td>
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**DANGER**

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E, NOM-029-STPS, or CSA Z462.
- This cable tap box must be removed and serviced only by qualified electrical personnel.
- Turn off power to busway before removing the cable tap box.
- Turn off the power to busway before opening or working inside the enclosure.
- Always use a properly rated voltage sensing device at all connections to confirm that the power is off.
- Do not remove the cable tap box with the cover open or removed.

Failure to follow these instructions will result in death or serious injury.

1. Turn off all power sources supplying the connections of the cable tap box.
2. Open the unit’s cover, and detach the base/door assembly from the portion of hook and loop fastener (previously installed) attached to the inside of the cable tap box.
3. Disconnect the cables from the cable tap box.
4. Remove the conduit and any conduit fittings.
5. Close the unit’s cover.
6. Remove the auxiliary ground kit from the cable tap box.
7. Remove the cable tap box from the frame and the frame from the busway.
8. Install the base/door assembly (detached in step 3) to the plug-in openings on the busway.
Section 6—General Maintenance

Refer to NEMA bulletin BU1.1 for maintenance instructions. Inspect the unit once each year and look for any appreciable accumulation of dust or liquids.

The gaskets used to maintain the IP54 rating may have chemical incompatibility when the unit is installed in specific adverse environments (corrosive gases, liquids, or dust). Also, do not allow paint to be in contact with these gaskets. For more details, contact your local Schneider Electric representative.

When relocating the cable tap box, inspect the joint compound on the bolt-on connections for contamination. Replace the joint compound (part number PJC7201) if necessary.

To order accessories and replacement parts, refer to the section Section 7—Accessories and Replacement Parts below, or contact your local Schneider Electric representative.

Section 7—Accessories and Replacement Parts

Table 2 – Accessories and Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
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<td>Horizontal hanger assembly</td>
<td>45216-332-50</td>
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<tr>
<td>Vertical hanger assembly</td>
<td>45216-356-50</td>
</tr>
<tr>
<td>Joint Compound</td>
<td>PJC7201</td>
</tr>
<tr>
<td>Hook Stick–8 ft. (2.4 m)</td>
<td>515608</td>
</tr>
<tr>
<td>Hook Stick–14 ft. (4.3 m)</td>
<td>515614</td>
</tr>
<tr>
<td>Vertical Hanger Label</td>
<td>45123-897-04</td>
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