



Installing the Power Distribution Unit on an 8-Way Multimedia Tap

Overview

Introduction

This technical bulletin provides a revised procedure for installing a Power Distribution Unit (PDU) in an 8-way Revision “A” Multimedia Tap.

Purpose

When upgrading Revision “A” 8-way Multimedia Taps with a PDU, we recommend that you install a ground clip bracket on the tap faceplate.

The ground clip bracket:

- improves the grounding between the tap and PDU,
- improves the tap’s overall RF performance, and
- meets published insertion loss specifications.

This procedure may easily be performed in the field at the tap location. The ground clip bracket has been designed for a simple and technician-friendly installation. See “Ordering information” for details on ordering the ground clip bracket.

Note: The ground clip bracket is not required on Revision “B” or later 8-way Multimedia Taps.

Applicable taps

This document applies to the following Revision “A” 8-way Multimedia Taps.

| Part number | Model number | Description |
|-------------|--------------|---|
| 541760A | SAT MM 8-11 | 8-way Tap, 11 dB, coax or twisted pair powering |
| 541761A | SAT MM 8-14 | 8-way Tap, 14 dB, coax or twisted pair powering |
| 541762A | SAT MM 8-17 | 8-way Tap, 17 dB, coax or twisted pair powering |

Installing the PDU

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|---------|-------------|---|
| 541763A | SAT MM 8-20 | 8-way Tap, 20 dB, coax or twisted pair powering |
| 541764A | SAT MM 8-23 | 8-way Tap, 23 dB, coax or twisted pair powering |
| 541765A | SAT MM 8-26 | 8-way Tap, 26 dB, coax or twisted pair powering |
| 541766A | SAT MM 8-29 | 8-way Tap, 29 dB, coax or twisted pair powering |
| 544859A | SAT MM 8-11 | 8-way Tap, 11 dB, twisted pair powering |
| 544860A | SAT MM 8-14 | 8-way Tap, 14 dB, twisted pair powering |
| 544861A | SAT MM 8-17 | 8-way Tap, 17 dB, twisted pair powering |
| 544862A | SAT MM 8-20 | 8-way Tap, 20 dB, twisted pair powering |
| 544863A | SAT MM 8-23 | 8-way Tap, 23 dB, twisted pair powering |
| 544864A | SAT MM 8-26 | 8-way Tap, 26 dB, twisted pair powering |
| 544865A | SAT MM 8-29 | 8-way Tap, 29 dB, twisted pair powering |

Applicable PDUs

This technical bulletin applies to the following PDUs when installed with the 8-way Multimedia Taps listed in "Applicable taps."

| Part number | Description |
|--------------------|--|
| 541815A | 8-way PDU, Twisted Pair Power, White Label |
| 541815B | 8-way PDU, Twisted Pair Power, Red Label |
| 541817B | 8-way PDU, Twisted Pair Power |
| 541820A | 8-way PDU, Coax Power, White Label |
| 541820B | 8-way PDU, Coax Power, Red Label |

Installing the PDU

About the PDU

The Multimedia Tap system is designed to allow a two step upgrade process for power passing capability. During the initial network construction, Multimedia Taps are installed to provide CATV and other non-power passing subscriber services.

As hybrid fiber-coax (HFC) telephony is rolled out into the service area, the PDU is installed to provide power passing capability for the Multimedia Tap system. The PDU is located or “sandwiched” between the tap housing and the tap faceplate. The same PDU is installed regardless of the tap faceplate attenuation characteristics.

Reference

Refer to *Multimedia Tap System Installation and Operation Guide*, part number 562375, for complete installation instructions for the Multimedia Tap and PDU. This document can be ordered from your representative.

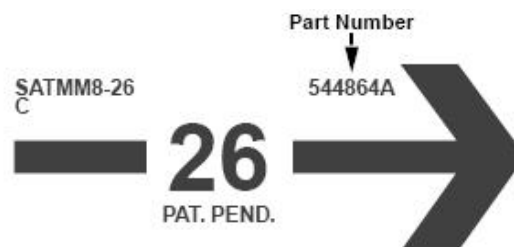
Required tools

Make sure you have the following tools before proceeding.

- #1 Phillips-head screwdriver
- Socket wrench with 3/8-in. hex socket
- 9/64-in. Allen-head driver

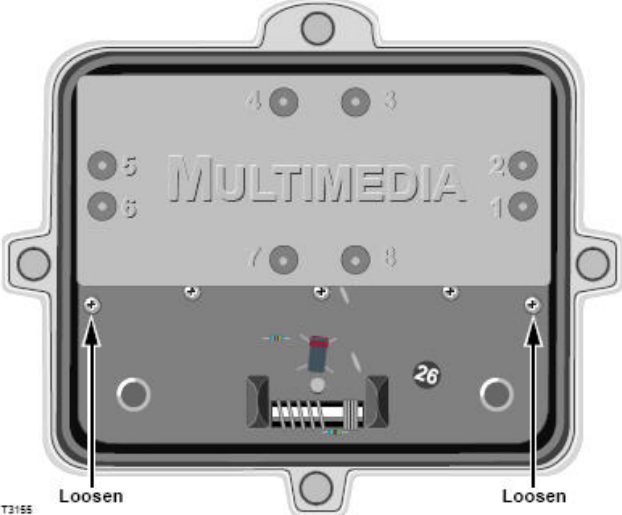
Before you start


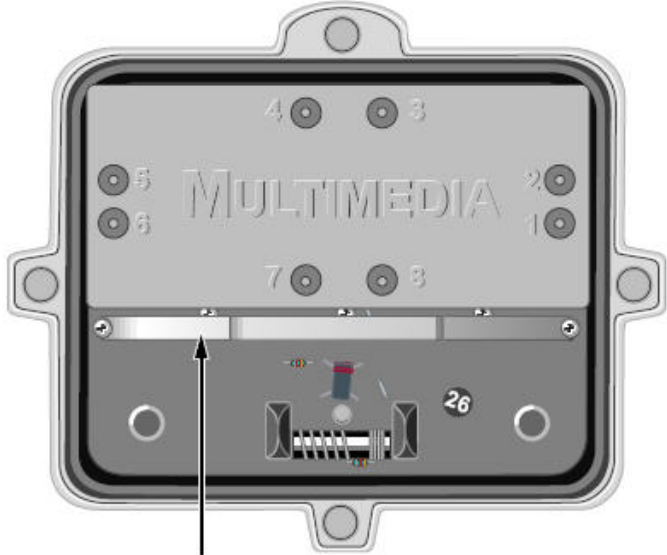
Before you start, inspect the label on the tap housing (see the following diagram) to find the part number.



- If the six-digit part number ends with “A,” proceed to “Installation procedure.”
- If the part number ends with any other letter, use the procedure in the manual and disregard the “Installation procedure.”

Installation procedure

| Step | Action |
|------|---|
| 1 | Remove the faceplate from an existing tap by loosening the four 3/8-in. bolts. |
| 2 | <p>On the back of the faceplate, loosen by only one turn the two Phillips-head screws located above the female seizure interconnects and directly below the plastic component cover. Do not remove these screws.</p>  <p>The diagram shows the back of a rectangular faceplate with the word "MULTIMEDIA" embossed in the center. There are eight screws numbered 1 through 8. Screws 1 and 2 are located below the plastic component cover. Screws 3 and 4 are at the top. Screws 5 and 6 are on the left side. Screws 7 and 8 are at the bottom. Two female seizure interconnects are visible at the bottom center. Two arrows labeled "Loosen" point to screws 1 and 2. A small number "26" is visible near the interconnects. The text "T3155" is in the bottom left corner.</p> |

| | |
|---|---|
| 3 | <p> Caution:</p> <p>Avoid damage to the tap! Do not touch the components in the middle of the faceplate circuit board.</p> <p>Carefully insert the ground clip bracket between the circuit board and the head of each of the two screws. The bracket is springy and may be easily grasped by the index finger and thumb of your hand. Pinch it slightly and slip under the two screws.</p> <p>Make sure the ground clip bracket is clear of the plastic component cover.</p>  <p>T3156 Grounding Clip Bracket</p> |
| 4 | Carefully re-tighten the two Phillips-head screws. |
| 5 | Proceed to step 3 of the instructions in Twisted Pair Power PDU Installation, in chapter 2 of the Multimedia Tap manual listed in “Reference.” |

Ordering information

We offer the ground clip bracket and additional Phillips-head screws at no charge. The Philips-head screws are only required if the original screws are fully removed and not just loosened.

| Part number | Description |
|-------------|---------------------------|
| 562750 | Ground Clip Bracket |
| 500049 | Phillips Head Screw - PWB |

These parts may be ordered from your representative.

Should you have any questions or require additional information, please contact Cisco Services.

For Information

For Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.



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September 2012 Printed in USA

Part Number 78-567635-01 Rev C