Remove the Module
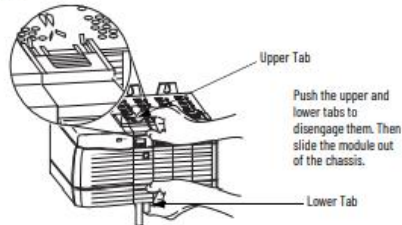
If necessary, you can remove the module from the chassis as shown in this illustration.

Upper Tab

Push the upper and lower tabs to disengage them. Then slide the module out of the chassis.

Lower Tab

IMPORTANT	Removing power from the chassis before removing the module is only necessary if the module is in a Class I, Division 2 hazardous location.

Connect to the ControlNet Network

Connect the module to the ControlNet network using a tap (1786-TPR, 1786-TPS, 1786-TPYR, 1786-TPYS, or 1786-TCT2BD1) or a network access cable (1786-CP).

⚠ **WARNING:** If you connect or disconnect the communications cable with power that is applied to this module or any device on the network, an electric arc can occur. This could cause an explosion in hazardous location installations.
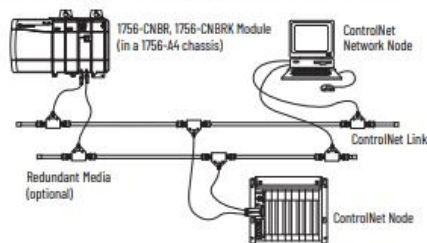
💡 Use the 1786-CP cable for temporary connections, such as programming software. For permanent connections, use a tap.

⚠ **ATTENTION:** The modules that are listed on page 1 of this document that end with a 'K' are shipped with port protection plugs installed to provide a layer of protection from corrosive atmospheres. Port plugs must remain installed in unused ports at all t 截图(Alt + A) nd operation for the product to meet its corrosive atmosphere rating. If temporary access is required, plugs can be removed, and should be reinserted after temporary access is complete.

This figure shows an example ControlNet network using redundant media.

1756-CNBR, 1756-CNBRK Module (in a 1756-A4 chassis)

ControlNet Network Node

ControlNet Link

Redundant Media (optional)

ControlNet Node

When connecting the module to a ControlNet network, also refer to the following documentation:

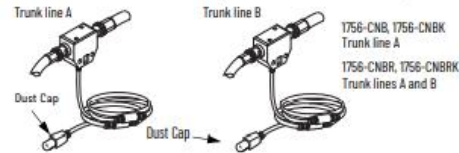- *ControlNet Coax Tap Installation Instructions*, publication 1786-IN007
- *ControlNet Cable System Planning and Installation Manual*, publication CNET-IN002.

💡 Taps with a straight connector (1786-TPS or 1786-TPYS) are recommended because of the location of the BNC connectors on the bottom of the module.

Follow these steps to connect the module to the network by using a tap.

1. Remove and save the dust caps from the ControlNet network taps.

Trunk line A   Trunk line B

1756-CNB, 1756-CNBK Trunk line A

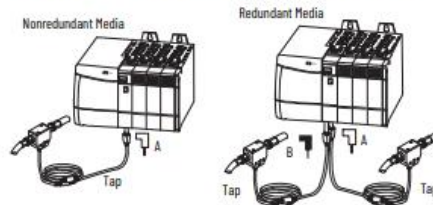1756-CNBR, 1756-CNBRK Trunk lines A and B

Dust Cap

Dust Cap

⚠ **ATTENTION:** Do not allow any metal portions of the tap to contact any conductive material. If you disconnect the tap from the module, place the dust cap back on the straight or right-angle connector to help prevent the connector from accidentally contacting a metallic grounded surface.

2. Connect the straight or right-angle connector on the tap to the module BNC connector.

If Your Node Supports	Connect The Connector on the Tap
Non-redundant media 1756-CNB, 1756-CNBK	to the channel A connector on the module (channel B on the 1756-CNBR, 1756-CNBRK is not used)[1]
Redundant media	• from trunk line A to channel A on the 1756-CNBR, 1756-CNBRK • from trunk line B to channel B on the 1756-CNBR, 1756-CNBRK

(1) While both channels are active, we recommend using channel A for non-redundant media.

Nonredundant Media   Redundant Media

Tap   Tap   B   A   Tap

IMPORTANT	To prevent inadvertent tap connection reversal (causing incorrect status displays and requiring troubleshooting), check the tap drop cable for the label indicating the attached segment before making the connection. The primary and redundant partner modules in a redundant control chassis pair must be connected to the same network segment. Connect the channel of each partner to the same network segment.

3. Apply power to the module and Check Module Status.

Installation Instructions

Original Instructions

AB Allen-Bradley
by **ROCKWELL AUTOMATION**

ControlLogix ControlNet Scanner Module

Catalog Numbers 1756-CNB, 1756-CNBK, 1756-CNBR, 1756-CNBRK

This publication describes how to install the ControlLogix® ControlNet® scanner for standard and redundant media.

The ControlNet network combines the functionality of an I/O network and a peer-to-peer network, providing high-speed performance. The ControlNet network provides deterministic, repeatable transfers of critical control data.

The catalog numbers of the conformal coated products include the designation 'K' in the last position before the series identifier.

Summary of Changes

This publication contains new and updated information as indicated in the following table.

Topic	Page
Updated UK and European Hazardous Location Approval	3
Updated IEC Hazardous Location Approval	3
Updated Special Conditions for Safe Use	3
Added information regarding how to Remove the Module	6
Added information regarding how to Check Module Status	7
Added information regarding how to Troubleshoot the Module	8
Updated Operating Temperature and Isolation Voltage Specifications	10