Fused Field Wiring Arm
Cat. No. 1771-WHF and -WHFB

To the Installer

This document describes:

- pre-installation considerations
- how to install the field wiring arm
- how to change a fuse on the field wiring arm
- product specifications

Pre-installation Considerations

The fused field wiring arm provides individual output circuit protection. It allows simple fuse replacement without removing the field wiring arm from the I/O chassis.
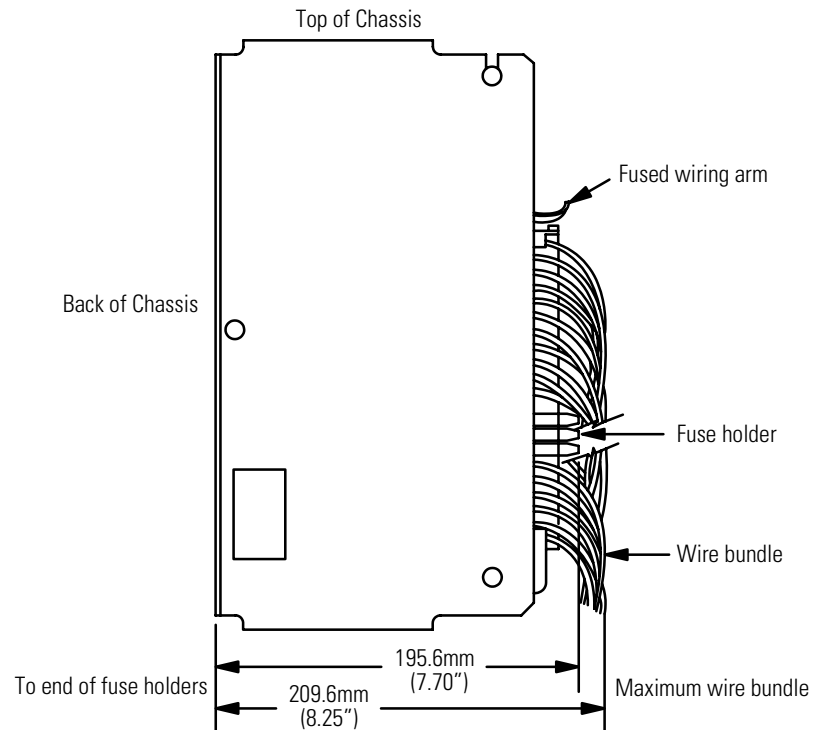
Two versions are available, both of which are interchangeable with the 1771-WH field wiring arm:

- 1771-WHF - this wiring arm uses a 3 A fuse for each output. The maximum continuous current should not exceed 2.0 A per fuse.
- 1771-WHFB - this wiring arm uses a 1.5 A fuse for each output. The maximum continuous current should not exceed 1.1 A per fuse.

IMPORTANT Fused field wiring arms require more clearance than the 1771-WH field wiring arms. If you are installing in a cabinet, make certain that your installation has sufficient clearance for this wiring arm.

The following figure shows the minimum dimensions from the back of the 1771 I/O chassis to the front of the fused field wiring arm and to the front of a typical wire bundle.

Top of Chassis

Fused wiring arm

Back of Chassis

Fuse holder

Wire bundle

To end of fuse holders

195.6mm (7.70")

209.6mm (8.25")

Maximum wire bundle

Installing the Fused Field Wiring Arm

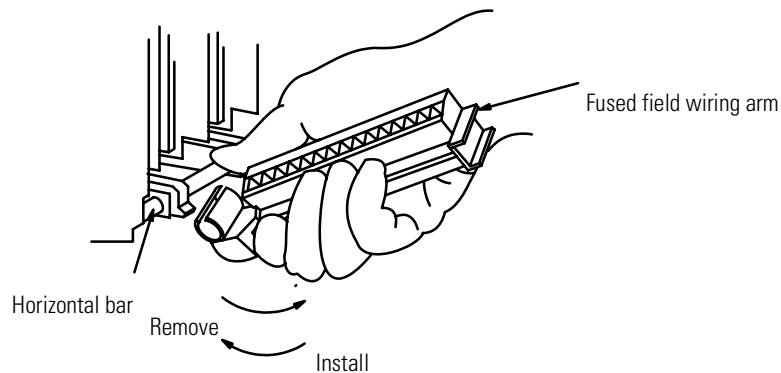To install the fused field wiring arm:

IMPORTANT If your application requires a single power source for all circuits on the 16-point output module, install the jumper supplied with the wiring arm to connect the first 4 terminals (A, B, C and D) together. Refer to the specific installation data for your output module for wiring information.

1. Remove power from the wiring arm.

2. If replacing an existing wiring arm:
   a. disconnect wiring from the terminals on the field wiring arm
   b. release the tab securing the wiring arm to the module
   c. swing the wiring arm downward and remove as shown in the following figure

3. Snap the 1771WHF or -WHFB wiring arm on the horizontal bar at the bottom of the chassis as shown in the following figure.

4. Swing the wiring arm upward onto the module until the arm is secured by the tab.

5. Connect field wiring as outlined in the installation data sheet included with your particular output module.
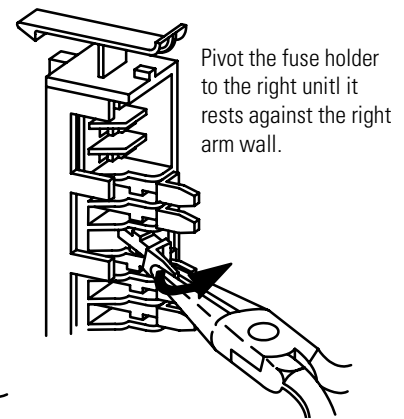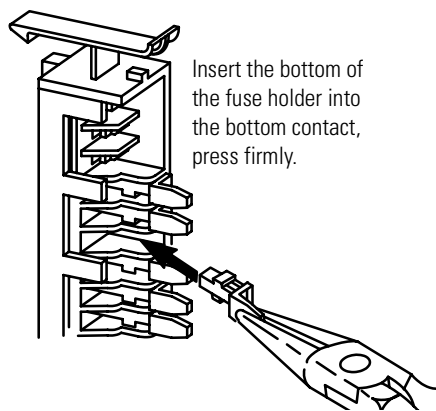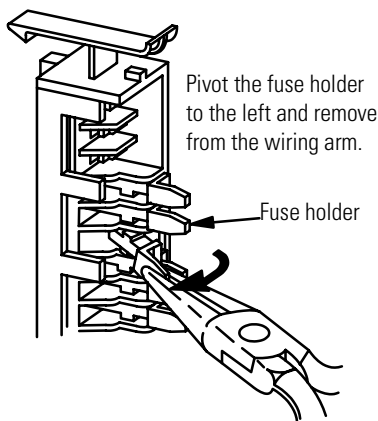

IMPORTANT   Make certain that you allow sufficient slack in the wiring at the bottom of the field wiring arm so that the wiring arm can pivot sufficiently on the horizontal bar to allow module removal.

Fused field wiring arm

Horizontal bar
Remove
Install

Changing a Fuse on the Fused Field Wiring Arm

To change a fuse:

1. Remove power from the wiring arm.

2. Remove the fuse holder from the wiring arm as shown below:

Pivot the fuse holder to the left and remove from the wiring arm.

Fuse holder

Insert the bottom of the fuse holder into the bottom contact, press firmly.

Pivot the fuse holder to the right unitl it rests against the right arm wall.

3. Depending on the wiring arm, replace the fuse with the following:

- 1771-WHF - 3 A fuse from Allen-Bradley Fuse Pak, cat. no. 1771-FD or Littelfuse 2AG 3 A, part. no. 225003
- 1771-WHFB - 1.5 A fuse from Allen-Bradley Fuse Pak, cat. no. 1771-FD2 or Littelfuse 2AG 1.5 A, part no. 22501.5

4. Replace the fuse holder in the field wiring arm as shown above.

5. Reapply power to the wiring arm.

Specifications

WARNING ⚠	The 1771-WHF and 1771-WHFB are not suitable for use in Class I Division 2 Groups A, B, C, D Environments.

Catalog Number	1771-WHF (3 A) and 1771-WHFB (1.5 A)
Dimensions	8.265H x 1.224W x 2.0D (inches) 209H x 31W x 51D (millimeters)
Conductors	Wire Size - 14…20 AWG (2.5mm^2…0.5mm^2), copper only stranded or solid, rated at 75 ^{o}C or higher, 3/64 inch (1.22mm) insulation Category - Refer to specific module installation instructions
Fuses	1771-WHF - Littelfuse 2AG 3 A Part No. 225003 1771-WHFB - Littelfuse 2AG 1.5 A Part No. 22501.5
Optional Fuse Pak	1771-WHF - Cat. No. 1771-FD: contains 2 fuse holders and 8 2AG 3 A fuses 1771-WHFB - Cat. No. 1771-FD2: contains 2 fuse holders and 8 2AG 1.5 A fuses
Wiring Arm Screw Torque	9 pound-inches
Terminal Rating	Terminals A-D rated for 8 A @ 250V 1771-WHF - Terminal 00…17 - 3.0 A, 250V per terminal with a maximum of 12 A combined for terminals 00…17 derated linearly from 10 °C to 2 A per terminal at 60 °C. 1771-WHFB - Terminal 00…17 - 1.5 A, 250V per terminal with a maximum of 12 A combined for terminals 00…17.