ITI Technical Guide 005

Compatibility Guide for:

- **ITI® Quik Bridge™ Loop Receiver (60-660)**
- **Ademco Vista 20 Control Panel**

This document explains how to connect an ITI Quik Bridge Loop Receiver (60-660) to an Ademco Vista 20 control panel. It summarizes the following procedures:

- *Powering the Loop Receiver*. How to wire the receiver to the panel's auxiliary power.
- *Connecting the Zone Outputs Used by Sensors*. How to wire the receiver to the panel to allow the use of wireless sensors.
- *Connecting the Zone Outputs Used for Keyswitch Arming*. How to wire the receiver to the panel to allow arming and disarming of the system using a Keychain Touchpad.

For complete instructions on programming the Loop Receiver or the Vista 20, see their installation instructions.

Powering the Loop Receiver

1. Shut off or remove power from the receiver and the panel.
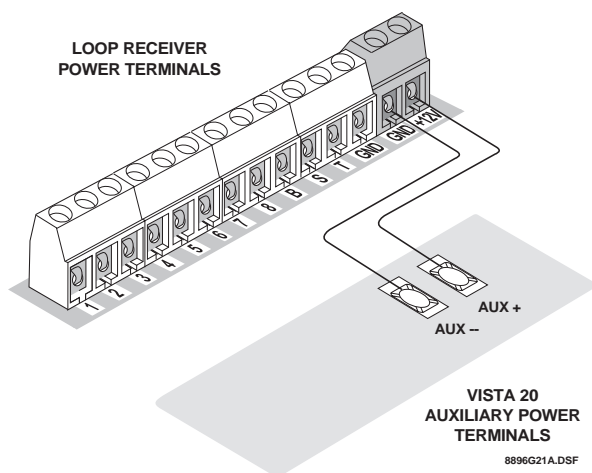2. Power the receiver by connecting it to the panel's auxiliary power supply as shown in Figure 1.

Figure 1. Powering the Loop Receiver.

Note: The auxiliary power will shut off momentarily whenever the panel resets the fire alarms and whenever you try to disarm the panel when it's already disarmed. This power loss may erase the panel's alarm memory.

Connecting the Zone Outputs Used by Sensors

Connect the receiver's sensor zone outputs and trouble outputs (terminals B and S), if desired, to the panel's inputs. For N/C (Normally Closed) configurations, see Figure 2. For N/O (Normally Open) configurations, see Figure 3. Table 1 lists the configurations (N/C or N/O) you may use for each zone on the Vista 20.

Table 1. On the Vista 20, zones 1–8 can be wired to be N/C. Only zones 2–7 can be wired to be N/O. Do not wire zones 1 or 8 to be N/O.

These Loop Receiver outputs...	Work with these Vista 20 zone inputs...	In these configurations...	
		N/C	N/O
1 through 8, B, S	1	✔	
	2	✔	✔
	3	✔	✔
	4	✔	✔
	5	✔	✔
	6	✔	✔
	7	✔	✔
	8	✔	

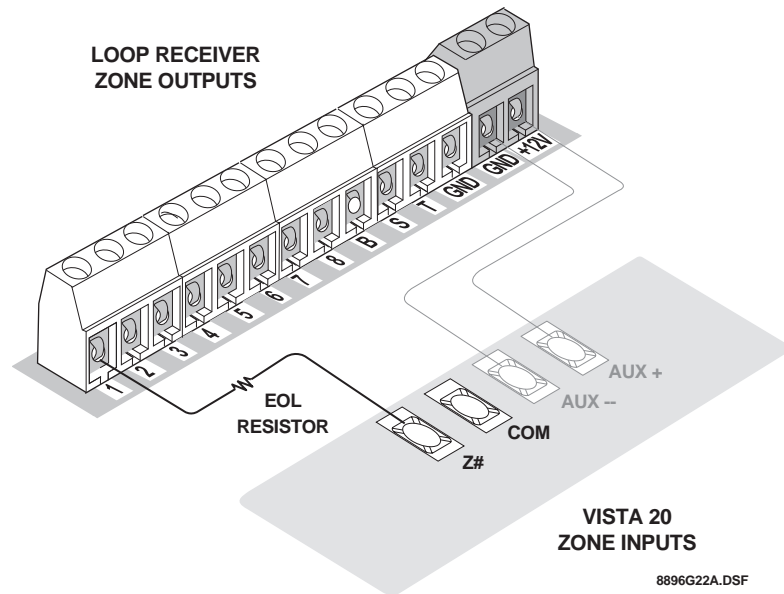**Wiring a Loop Receiver Zone Using a N/C Configuration**

Figure 2. To wire a Loop Receiver zone N/C, program the zone N/C, then wire the zone as shown in the diagram above.

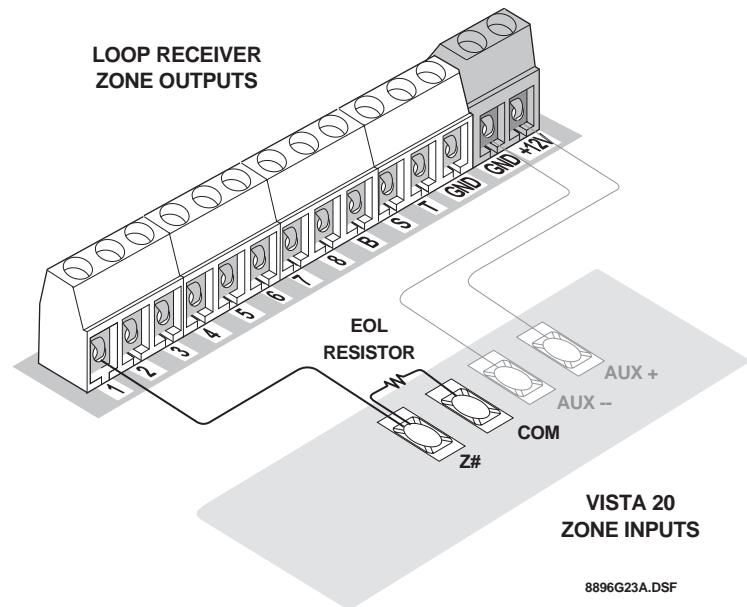**Wiring a Loop Receiver Zone Using a N/O Configuration**

Figure 3. To wire a Loop Receiver zone N/O, program the zone N/O, then wire the zone as shown in the diagram above.

Connecting the Zone Outputs Used for Keyswitch Arming

This section explains how to set up a button on an ITI Keychain Touchpad to allow keyswitch arming of a Vista 20 system. A Keychain Touchpad configured this way will toggle the system between disarmed and armed-stay. See Table 2 for a summary of compatibility between Loop Receiver outputs and Vista 20 inputs.

Table 2. On the Vista 20, zone 7 is the only zone input usable for keyswitch arming. Zone 7 can only be wired N/O.

These Loop Receiver button outputs...	Work with this Vista 20 keyswitch arming input.	In this configuration...	
		N/C	N/O
5 or 6	7		✓

To connect the Loop Receiver for keyswitch arming:

1. Learn the desired Keychain Touchpad button (normally either the Arm or Disarm button) into the receiver.
2. Make sure the button is set up for momentary switching.
3. Connect the button's zone output (Arm: terminal 5, or Disarm: terminal 6) to panel zone 7 (terminal Z7 and COM) as shown in Figure 4.
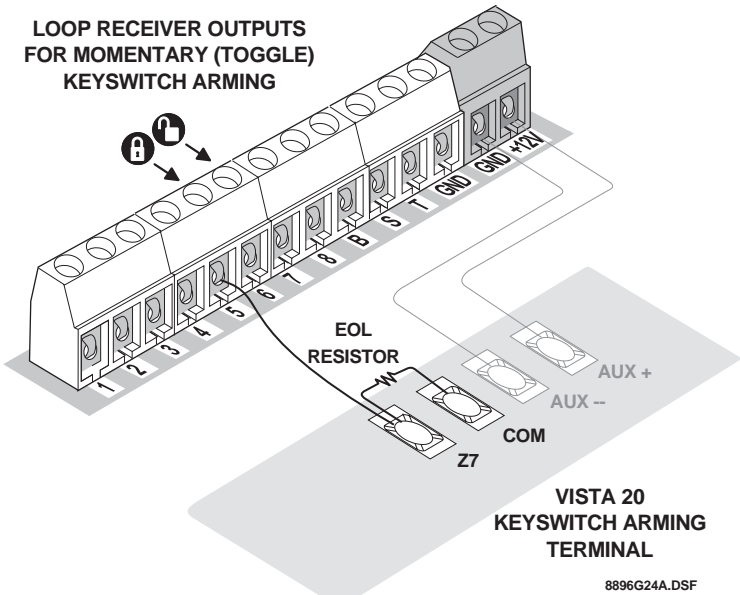

Figure 4. Learn the desired button into the receiver, program the zone for N/O momentary switching, then wire the receiver N/O to the Vista 20 as shown. The buttons are shown next to the zone outputs they activate.