



808A Emergency Transfer Panel Installation Guide

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Notice

Every effort was made to ensure that the information in this document was complete and accurate at the time of printing. However, information is subject to change.

Warranty

Avaya Inc. provides a limited warranty on this product. Refer to your sales agreement to establish the terms of the limited warranty. In addition, Avaya's standard warranty language as well as information regarding support for this product, while under warranty, is available through the following Web site: <http://www.avaya.com/support>.

Preventing Toll Fraud

"Toll fraud" is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or is not working on your company's behalf). Be aware that there can be a risk of Toll Fraud associated with your system and that, if Toll Fraud occurs, it can result in substantial additional charges for your telecommunications services.

Avaya Fraud Intervention

If you suspect that you are being victimized by toll fraud and you need technical assistance or support, in the United States and Canada, call the Technical Service Center's Toll Fraud Intervention Hotline at 1-800-643-2353.

Disclaimer

Avaya is not responsible for any modifications, additions or deletions to the original published version of this documentation unless such modifications, additions or deletions were performed by Avaya. Customer and/or End User agree to indemnify and hold harmless Avaya, Avaya's agents, servants and employees against all claims, lawsuits, demands and judgments arising out of, or in connection with, subsequent modifications, additions or deletions to this documentation to the extent made by the Customer or End User.

How to Get Help

For additional support telephone numbers, go to the Avaya support Web site: <http://www.avaya.com/support>. If you are:

- Within the United States, click the Escalation Contacts link that is located under the Support Tools heading. Then click the appropriate link for the type of support that you need.
- Outside the United States, click the Escalation Contacts link that is located under the Support Tools heading. Then click the International Services link that includes telephone numbers for the international Centers of Excellence.

Providing Telecommunications Security

Telecommunications security (of voice, data, and/or video communications) is the prevention of any type of intrusion to (that is, either unauthorized or malicious access to or use of) your company's telecommunications equipment by some party.

Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that could be accessed via this Avaya product (that is, "networked equipment").

An "outside party" is anyone who is not a corporate employee, agent, subcontractor, or is not working on your company's behalf. Whereas, a "malicious party" is anyone (including someone who may be otherwise authorized) who accesses your telecommunications equipment with either malicious or mischievous intent.

Such intrusions may be either to/through synchronous (time-multiplexed and/or circuit-based), or asynchronous (character-, message-, or packet-based) equipment, or interfaces for reasons of:

- Utilization (of capabilities special to the accessed equipment)
- Theft (such as, of intellectual property, financial assets, or toll facility access)
- Eavesdropping (privacy invasions to humans)
- Mischievous (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there may be a risk of unauthorized intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it could result in a variety of losses to your company (including but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs).

Responsibility for Your Company's Telecommunications Security

The final responsibility for securing both this system and its networked equipment rests with you - Avaya's customer system administrator, your telecommunications peers, and your managers. Base the fulfillment of your responsibility on acquired knowledge and resources from a variety of sources including but not limited to:

- Installation documents
- System administration documents
- Security documents
- Hardware-/software-based security tools
- Shared information between you and your peers
- Telecommunications security experts

To prevent intrusions to your telecommunications equipment, you and your peers should carefully program and configure:

- Your Avaya-provided telecommunications systems and their interfaces
- Your Avaya-provided software applications, as well as their underlying hardware/software platforms and interfaces
- Any other equipment networked to your Avaya products

TCP/IP Facilities

Customers may experience differences in product performance, reliability and security depending upon network configurations/design and topologies, even when the product performs as warranted.

Product Safety Standards

This product complies with and conforms to the following international Product Safety standards as applicable:

- IEC 60950-1 latest edition, including all relevant national deviations as listed in the IECCE Bulletin—Product Category OFF: IT and Office Equipment.
- CAN/CSA-C22.2 No. 60950-1 / UL 60950-1 latest edition.

This product may contain Class 1 laser devices.

- Class 1 Laser Product
- Luokan 1 Laserlaite
- Klass 1 Laser Apparat

Electromagnetic Compatibility (EMC) Standards

This product complies with and conforms to the following international EMC standards, as applicable:

- CISPR 22, including all national standards based on CISPR 22.
- CISPR 24, including all national standards based on CISPR 24.
- IEC 61000-3-2 and IEC 61000-3-3.

Avaya Inc. is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Avaya Inc. The correction of interference caused by such unauthorized modifications, substitution or attachment will be the responsibility of the user. Pursuant to Part 15 of the Federal Communications Commission (FCC) Rules, the user is cautioned that changes or modifications not expressly approved by Avaya Inc. could void the user's authority to operate this equipment.

Federal Communications Commission Part 15 Statement:

For a Class A digital device or peripheral:

* Note:

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.

For a Class B digital device or peripheral:

* Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Equipment With Direct Inward Dialing ("DID"):

Allowing this equipment to be operated in such a manner as to not provide proper answer supervision is a violation of Part 68 of the FCC's rules.

Proper Answer Supervision is when:

1. This equipment returns answer supervision to the public switched telephone network (PSTN) when DID calls are:
 - answered by the called station,

- answered by the attendant,
 - routed to a recorded announcement that can be administered by the customer premises equipment (CPE) user
 - routed to a dial prompt
2. This equipment returns answer supervision signals on all (DID) calls forwarded back to the PSTN.

Permissible exceptions are:

- A call is unanswered
- A busy tone is received
- A reorder tone is received

Avaya attests that this registered equipment is capable of providing users access to interstate providers of operator services through the use of access codes. Modification of this equipment by call aggregators to block access dialing codes is a violation of the Telephone Operator Consumers Act of 1990.

Automatic Dialers:

When programming emergency numbers and (or) making test calls to emergency numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call.
- Perform such activities in the off-peak hours, such as early morning or late evenings.

Toll Restriction and least Cost Routing Equipment:

The software contained in this equipment to allow user access to the network must be upgraded to recognize newly established network area codes and exchange codes as they are placed into service.

Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

For equipment approved prior to July 23, 2001:

This equipment complies with Part 68 of the FCC rules. On either the rear or inside the front cover of this equipment is a label that contains, among other information, the FCC registration number, and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.

For equipment approved after July 23, 2001:

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the Administrative Council on Terminal Attachments (ACTA). On the rear of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXX. If requested, this number must be provided to the telephone company.

The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed 5.0.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'exécède pas cinq.

To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXX.

The digits represented by ## are the REN without a decimal point (for example, 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

Means of Connection:

Connection of this equipment to the telephone network is shown in the following table:

Manufacturer's Port Identifier	FIC Code	SOC/REN/A.S. Code	Network Jacks
Off premises station	OL13C	9.0F	RJ2GX, RJ21X, RJ11C
DID trunk	02RV2.T	AS.2	RJ2GX, RJ21X, RJ11C
CO trunk	02GS2	0.3A	RJ21X, RJ11C
	02LS2	0.3A	RJ21X, RJ11C
Tie trunk	TL31M	9.0F	RJ2GX
Basic Rate Interface	02IS5	6.0F, 6.0Y	RJ49C
1.544 digital interface	04DU9.B N	6.0F	RJ48C, RJ48M
	04DU9.1K N	6.0F	RJ48C, RJ48M
	04DU9.1S N	6.0F	RJ48C, RJ48M
120A4 channel service unit	04DU9.D N	6.0Y	RJ48C

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact the Technical Service Center at 1-800-242-2121 or contact your local Avaya representative. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

Installation and Repairs

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. It is recommended that repairs be performed by Avaya certified technicians.

FCC Part 68 Supplier's Declarations of Conformity

Avaya Inc. in the United States of America hereby certifies that the equipment described in this document and bearing a TIA TSB-168 label identification number complies with the FCC's Rules and Regulations 47 CFR Part 68, and the Administrative Council on Terminal Attachments (ACTA) adopted technical criteria.

Avaya further asserts that Avaya handset-equipped terminal equipment described in this document complies with Paragraph 68.316 of the FCC Rules and Regulations defining Hearing Aid Compatibility and is deemed compatible with hearing aids.

Copies of SDoCs signed by the Responsible Party in the U. S. can be obtained by contacting your local sales representative and are available on the following Web site: <http://support.avaya.com/DoC>.

Canadian Conformity Information

This Class A (or B) digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A (ou B) est conforme à la norme NMB-003 du Canada.

This product meets the applicable Industry Canada technical specifications/Le présent matériel est conforme aux spécifications techniques applicables d'Industrie Canada.

European Union Declarations of Conformity



Avaya Inc. declares that the equipment specified in this document bearing the "CE" (Conformité Européenne) mark conforms to the European Union Radio and Telecommunications Terminal Equipment Directive (1999/5/EC), including the Electromagnetic Compatibility Directive (2004/108/EC) and Low Voltage Directive (2006/95/EC).

Copies of these Declarations of Conformity (DoCs) can be obtained by contacting your local sales representative and are available on the following Web site: <http://support.avaya.com/DoC>.

European Union Battery Directive



Avaya Inc. supports European Union Battery Directive 2006/66/EC. Certain Avaya Inc. products contain lithium batteries. These batteries are not customer or field replaceable parts. Do not disassemble. Batteries may pose a hazard if mishandled.

Japan

The power cord set included in the shipment or associated with the product is meant to be used with the said product only. Do not use the cord set for any other purpose. Any non-recommended usage could lead to hazardous incidents like fire disaster, electric shock, and faulty operation.

本製品に同梱または付属している電源コードセットは、本製品専用です。本製品以外の製品ならびに他の用途で使用しないでください。火災、感電、故障の原因となります。

If this is a Class A device:

This is a Class A product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may occur, in which case, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

If this is a Class B device:

This is a Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラス B 情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

Downloading Documentation

For the most current versions of Documentation, see the Avaya Support Web site: <http://support.avaya.com>.

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Chapter 1: Overview

Overview

The 808A Emergency Transfer Panel (ETP) provides redundancy capabilities to a maximum of five incoming CO analog trunk loops. When a power failure or other system problem interrupts service, these selected PBX station sets are automatically and directly connected to the CO trunk and are available for emergency use outside the PBX service environment.

During normal switch operation, -48V DC power from the PBX/Media Gateway keeps the power failure detection relays of 808A open. During a power failure or a major system failure, 808A operates as follows:

- Upon failure, the power failure detection relays close. This activates the bypass circuits.
- Each bypass circuit directly connects a designated 7102-type voice terminal or 2500-type voice terminal to a central office (CO) trunk. The circuits completely bypass the switch.
- When a voice terminal connected to the 808A goes off-hook during bypass, circuitry inside the panel sends the signal to the CO trunk. The CO trunk responds with a dial tone. You can set signaling for each 808A bypass circuit to either loop-start or ground-start.

The 808A Emergency Transfer Panel provides following enhanced features:

- Restore after busy- If power to the relays is restored when a call set up through 808A Emergency Transfer Panel is in progress, 808A Emergency Transfer Panel retains the call connection until the voice terminal is on-hook.
- Forced transfer switch- With this switch, you can test Emergency Transfer Panel without the need for PBX to send an emergency signal to Emergency Transfer Panel.
- Green LED- The green LED on 808A Emergency Transfer Panel indicates the POWER ON status. The red LED on 574-5 Emergency Transfer Panel is inconsistent with the Avaya circuit pack color codes that indicate a normal status, a busy status, or an error.

Figure 1 shows 808A unit:

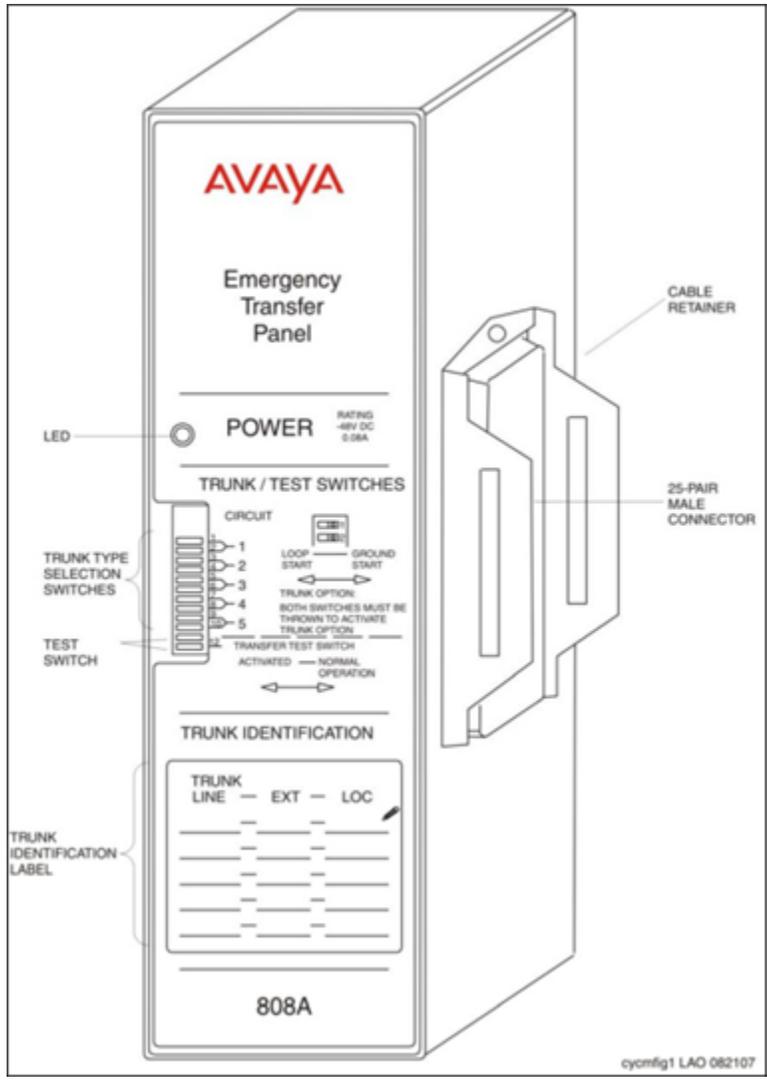
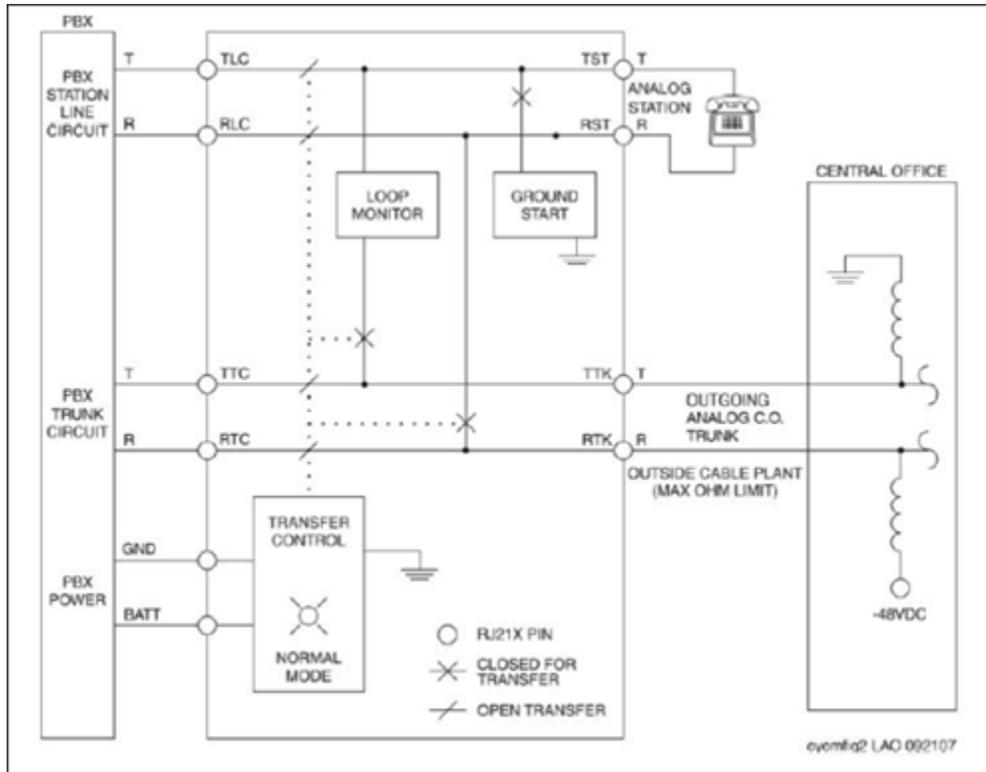
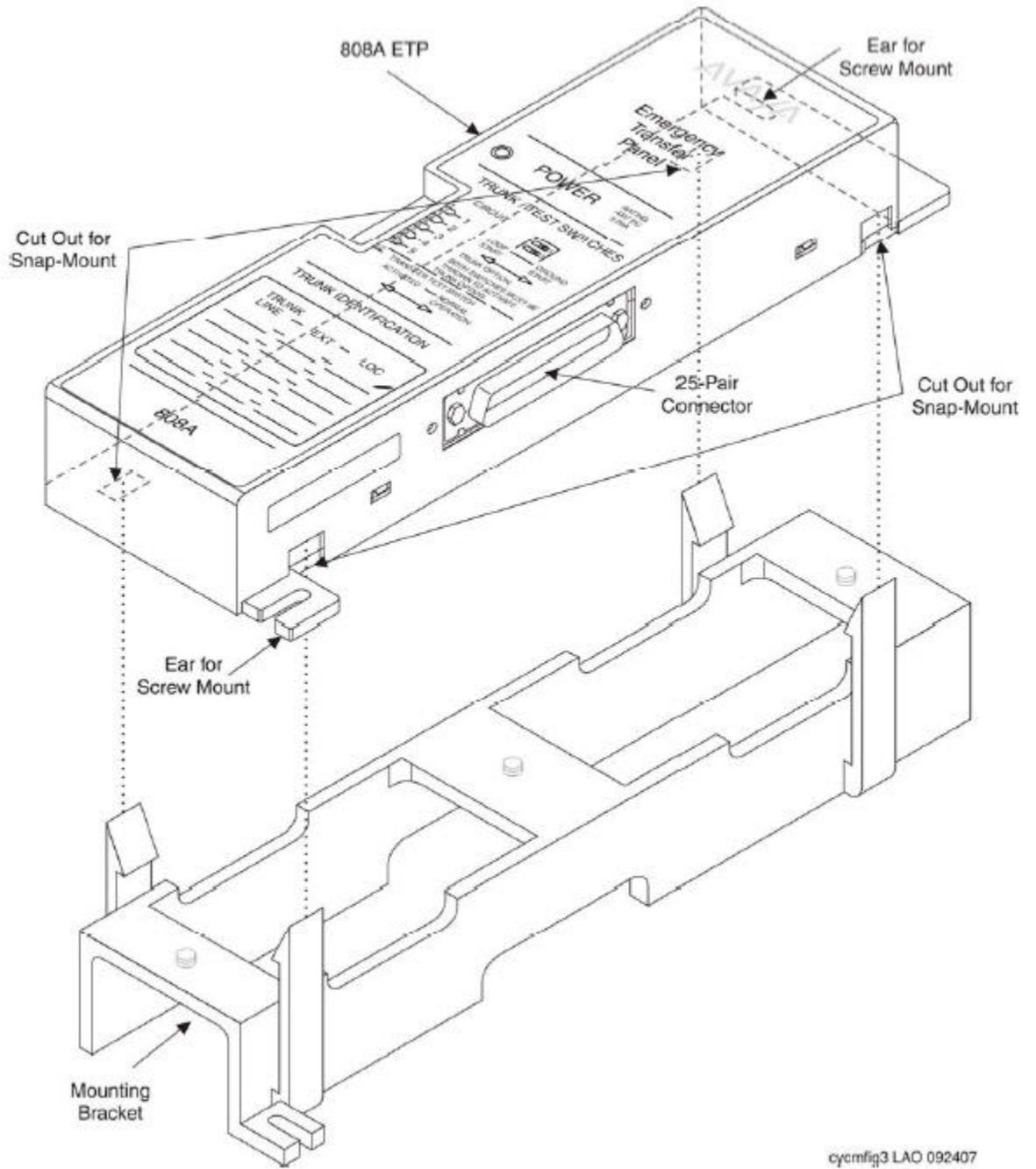


Figure 2 shows a circuit block diagram:



You can install 808A Emergency Transfer Panel using one of the following methods:

- On the wall through screws that mount in the ears on the top-left and the bottom-right of the unit.
- On the standard 89-type mounting bracket through cutouts to snap-mount the unit. See Figure 3



Ensure that the installation of Emergency Transfer Panel fulfills statutory environment guidelines, and is accessed only by authorized personnel.

Support

Visit the Avaya Support website at <http://support.avaya.com> for the most up-to-date documentation, product notices, and knowledge articles. On the Avaya Support website at <http://support.avaya.com>, search for notices, release notes, downloads, user guides, and resolutions to issues. Use the Web service request system to create a service request. Chat with live agents to help answer questions. If an issue requires additional expertise, agents can quickly connect you to a support team.

Chapter 2: Installing 808A Emergency Transfer Panel

About this task

To install the unit, perform the following steps:

Procedure

1. Set the trunk type selection switches in the following manner:
 - For loop start, set the switches to the left.
 - For ground start, set the switches to the right.

For more information on the location of the switches, see [Figure 1](#) on page 10.

* Note:

The trunk-type selection switches set incoming trunk lines either to loop start or to ground start. Two switches represent each circuit in the unit. [Table 1](#) on page 15 lists the mapping of switches with circuits.

Table 1: : Mapping of switches with circuits

Switch Number	Circuit Number
1	1
2	1
3	2
4	2
5	3
6	3
7	4
8	4
9	5
10	5
11	Not used.
12	Test switch.

2. Connect a 25-pair cable between the male 25-pair connector on Emergency Transfer Panel and the switch through the wall field.

[Table 2](#) on page 16 lists pin assignments for the 25-pair connector.

⚠ Caution:

To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed of CSA Certified Telecommunication Line Cord.

⚠ Warning:

For ground start trunks to work, ensure that you connect pin 50 to earth ground.

Table 2: : Pin assignments for the 25–pin connector

Pin	Color	Lead	Description
1	BL-W	RTC1	Ring-PBX Trunk Ckt 1
2	O-W	RTK1	Ring-CO Trunk Ckt 1
3	G-W	RLC1	Ring-PBX Line Port 1
4	BR-W	RST1	Ring-Emergency Terminal 1
5	S-W	RTC2	Ring-PBX Trunk Ckt 2
6	BL-R	RTK2	Ring-CO Trunk Ckt 2
7	O-R	RLC2	Ring-PBX Line Port 2
8	G-R	RST2	Ring-Emergency Terminal 2
9	BR-R	RTC3	Ring-PBX Trunk Ckt 3
10	S-R	RTK3	Ring-CO Trunk Ckt 3
11	BL-BK	RLC3	Ring-PBX Line Port 3
12	O-BK	RST3	Ring-Emergency Terminal 3
13	G-BK	RTC4	Ring-PBX Trunk Ckt 4
14	BR-BK	RTK4	Ring-CO Trunk Ckt 4
15	S-BK	RLC4	Ring-PBX Line Port 4
16	BL-Y	RST4	Ring-Emergency Terminal 4
17	O-Y	RTC5	Ring-PBX Trunk Ckt 5
18	G-Y	RTK5	Ring-CO Trunk Ckt 5
19	BR-Y	RLC5	Ring-PBX Line Port 5

Pin	Color	Lead	Description
20	S-Y	RST5	Ring-Emergency Terminal 5
21	BL-V	NO1	Normally Open 1 Contact
22	O-V	NC1	Normally Closed 1 Contact
23	G-V	NO2	Normally Open 2 Contact
24	BR-V		NOT USED
25	S-V	-48PX	-48 Volts From PBX
26	W-BL	TTC1	Tip-PBX Trunk Ckt 1
27	W-O	TTK1	Tip-CO Trunk Ckt 1
28	W-G	TLC1	Tip-PBX Line Port 1
29	W-BR	TST1	Tip-Emergency Terminal 1
30	W-S	TTC2	Tip-PBX Trunk Ckt 2
31	R-BL	TTK2	Tip-CO Trunk Ckt 2
32	R-O	TLC2	Tip-PBX Line Port 2
33	R-G	TST2	Tip-Emergency Terminal 2
34	R-BR	TTC3	Tip-PBX Trunk Ckt 3
35	R-S	TTK3	Tip-CO Trunk Ckt 3
36	BK-BL	TLC3	Tip-PBX Line Port 3
37	BK-O	TST3	Tip-Emergency Terminal 3
38	BK-G	TTC4	Tip-PBX Trunk Ckt 4
39	BK-BR	TTK4	Tip-CO Trunk Ckt 4
40	BK-S	TLC4	Tip-PBX Line Port 4
41	Y-BL	TST4	Tip-Emergency Terminal 4
42	Y-O	TTC5	Tip-PBX Trunk Ckt 5
43	Y-G	TTK5	Tip-CO Trunk Ckt 5
44	Y-BR	TLC5	Tip-PBX Line Port 5
45	Y-S	TST5	Tip-Emergency Terminal 5

Pin	Color	Lead	Description
46	V-BL	COM1	Common 1 Relay Contact
47	V-O	NC2	Normally Closed 2 Contact
48	V-G	COM2	Common 2 Relay Contact
49	V-BR		NOT USED
50	V-S	GRD	Earth Ground From PBX

3. On the trunk identification label at the bottom of Emergency Transfer Panel, note the following details of each circuit:
 - Trunk line
 - Extension
 - Location
4. To identify a voice terminal that is designated as an emergency terminal, on the emergency terminal, attach the identification label provided with the unit.
5. To verify Emergency Transfer Panel for normal operation, perform the following steps:
 - a. Set the test switch 12 to the NORMAL OPERATION position.
For more information on the location of the test switch and information on how to set the test switch, see [Figure 1](#) on page 10.
 - b. Ensure that the power supply is -48 VDC at a maximum of 80ma.
 - c. Check wiring connections.
For more information on wiring connections, see [Table 2](#) on page 16.
 - d. Verify that the power LED is lit, which indicates availability of power supply.
 - e. Verify the dial tone on all voice terminals.

If the verification of Emergency Transfer Panel for normal operation does not meet the listed requirements, replace the panel.

6. Check the system for transfer operation as follows:
 - a. Set the test switch 12 to the ACTIVATED position.
For more information on the location of the test switch and information on how to set the test switch, see [Figure 1](#) on page 10.
 - b. Verify that the power LED is off, which indicates that the power supply is off.
 - c. Verify the dial tone on all voice terminals.

If the verification of Emergency Transfer Panel for normal operation does not meet the listed requirements, replace the panel.

Chapter 3: Compliance information

FCC compliance

This equipment complies with Part 68 of the FCC rules. On the side of this equipment is a label that contains, among other information, the FCC certification number and ringer equivalence number (REN) for this equipment. The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. Typically, the sum of RENs should not exceed five (5.0). You should contact your local telephone company to confirm the number of devices you may connect to a line. To ensure full compliance with the FCC rules, you must also comply with the rules described in the following subsections.

Means of connection

You must connect 808A Emergency Transfer Panel to the telephone network through standard RJ21X jacks. You can order these from your local phone company. This equipment may not be used with party lines or coin telephone lines. It requires a dedicated CO trunk connection to fulfill its purpose of providing emergency communication in the event of loss of power to the PBX at the customer premises.

Notification to the local telephone company

Before connecting this equipment, you or your equipment supplier must notify your local telephone company' of the following:

- The telephone numbers you will use with 808A Emergency Transfer Panel.
- The registration number of 808A Emergency Transfer Panel
- REN 1.0A of 808A Emergency Transfer Panel

You must also notify your local telephone company if and when you permanently disconnect 808A Emergency Transfer Panel from the line(s).

Rights and responsibilities of the local telephone company

- Your telephone company may temporarily discontinue your service if 808A Emergency Transfer Panel causes harm to the telephone network. The telephone company will notify you in advance about the discontinuation of your service. If prior notification is not possible for any reason, the telephone company will notify you as soon as possible. The company will also inform you about your right to file a complaint with FCC.
- Your local telephone company may make changes to its facilities, equipment, operations, or procedures that affects 808A Emergency Transfer Panel. The telephone company will inform you in advance about any such planned changes, to give you an opportunity to maintain uninterrupted telephone service.

Appendix A: Additional instructions for 808A installations with an external power supply

Typically, the AUX connector of the DEFINITY system provides the –48Vdc power to 808A ETP. In case an external source provides , an additional ground wire is required to ensure operation of Ground-Start (GS) trunks connected to the 808A. An example 808A installation would be where 808A is used in combination with an Avaya G700 Media Gateway. You must connect pin 50 of the 808A Amphenol connector to the building ground for an emergency transfer telephone to work during an emergency transfer operation.

! Important:

The failure of an emergency transfer telephone to work during an emergency transfer operation will be apparent only during an emergency transfer operation. The trunks and the phones would operate properly during normal system operation.

To connect the 808A ground circuit to building ground:

- *Access to the 808A ground circuit:*

The 808A ground circuit associated with pin 50 is generally accessible at the system cross-connect field. Pin 50 and its associated conductor also serve as the positive side of the –48Vdc source to the 808A. You can use an additional wire punched-down on the cross-connect field directly on top of this conductor for the connection to the building ground. This might not be the only access point to the ground circuit, however, it is the most common and the easiest approach to implement.

- *Connection to building ground:*

Some of the examples of valid building grounds are:

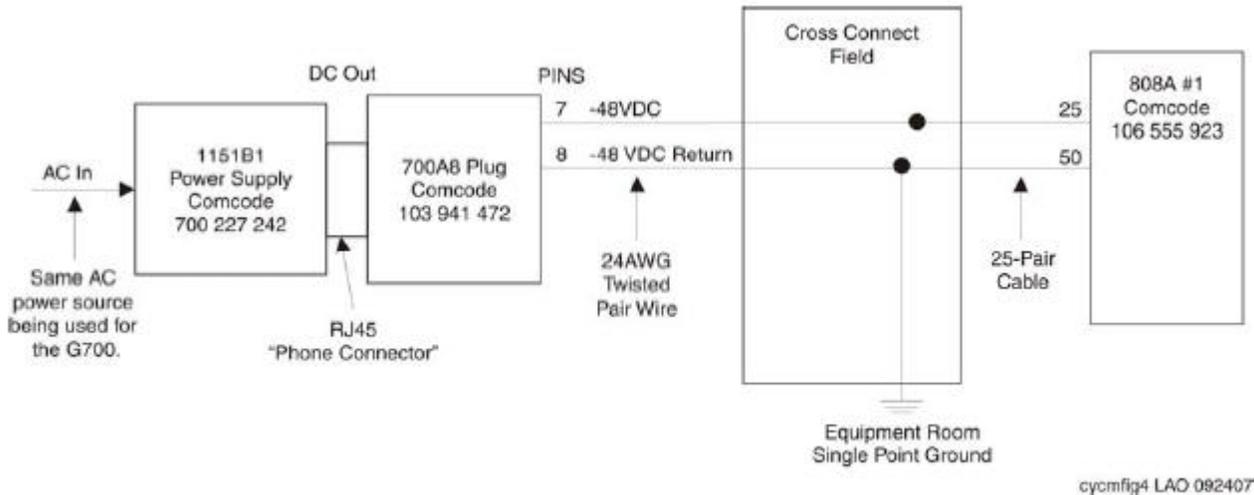
- the ground screw or terminal block of the host telecom system such as G700
- a grounded metal cable rack
- a common equipment room grounding point

***** Note:

A building ground is not be confused with a safety ground. A building ground is a functional connection rather than a safety connection. You can use a building ground approved for safety purposes for this application, but is not required.

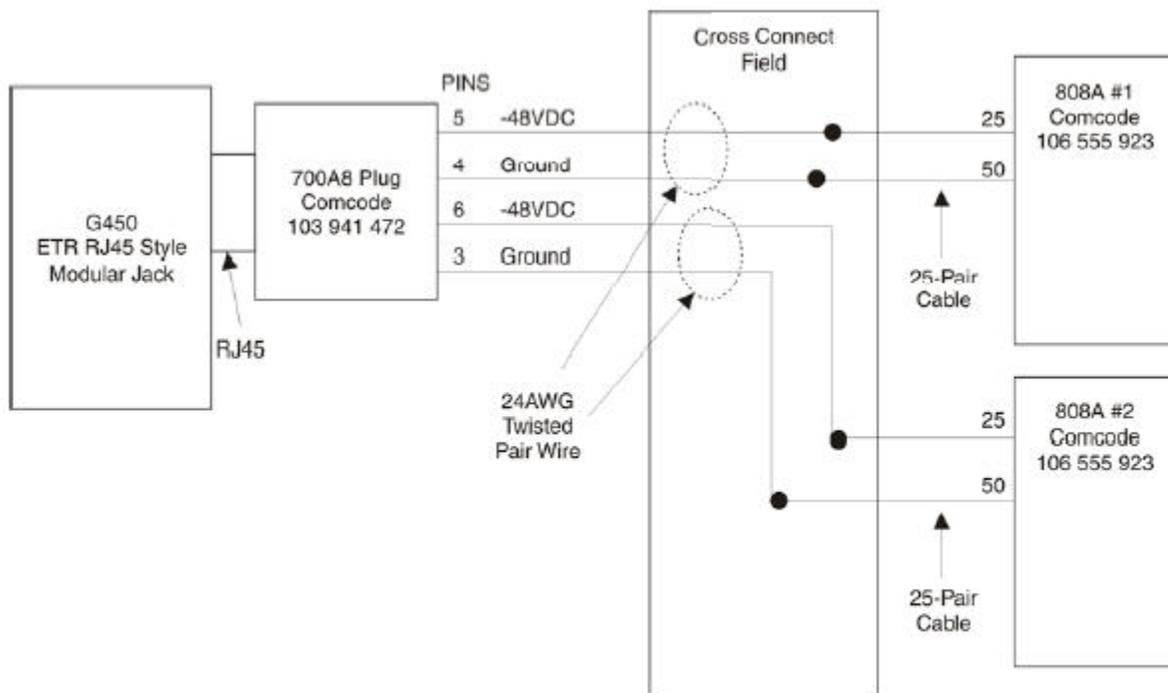
Note:

The wire used to provide this ground connection must not be smaller than 26 AWG, and not more than 20 feet in length.



Appendix B: Connection between G450 and 808A Emergency Transfer Panel

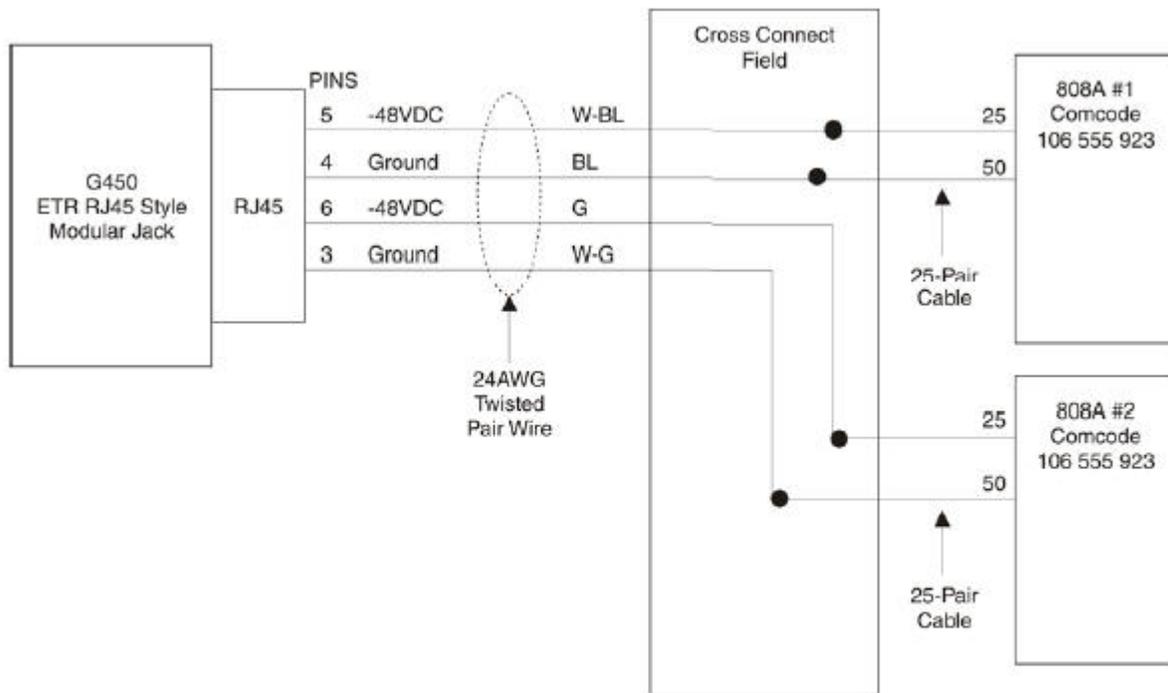
You can use two 808A panels with G450. Figure 5 and Figure 6 show the two methods you can use to connect G450 to 808A:



Warning: Polarity of the G450 ETR pin 4,5 pair is reversed from normal telephony conventions where
pin 4 = Ring = -48VDC
pin 5 = Tip = Ground

cycmfig5 LAO 092107

Connection between G450 and 808A Emergency Transfer Panel



Warning: Polarity of the G450 ETR pin 4,5 pair is reversed from normal telephony conventions where
 pin 4 = Ring = -48VDC
 pin 5 = Tip = Ground

cyemfig6 LAO 092407

* Note:

For the 24AWG Twisted Pair Wire, you may order DW8A-SE Distribution Cord, Comcode 103895686

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