



WEBS-MT/R Tower Installation Instructions

I. Introduction

This manual is for tower installation only. For instructions on installing the anchor bolts into the foundation, see the ETP-MT/R Anchor Bolt Installation Instructions.

II. Contents

Before beginning installation, make sure you have all the included components. Each **WEBS-MT/R** tower consists of the following packages. Package #1 contains the **WEBS-MT/R** tower itself. Package #2, labeled **MT/R BOLT KIT** contains the anchor bolt install kit. Package #3, labeled **TOWER PTS**, contains the tower hardware and lighting installation kit. Package #4, labeled **WEBS-MT/R-KIT** contains the WEBS paging kit. Package #5, labeled **WEBS-BACKUP** (sold separately) contains the WEBS power back-up kit. Emergency phones are sold and shipped separately (with mounting screws included).

MT/R BOLT KIT

QTY	Part Number	Description
4	42838	J-Bolts
1	26312	Cardboard Template

TOWER PTS

QTY	Part Number	Description
8	42839	3/4"-10 Hex Nut
8	42840	3/4" Washer
3	42841	10-24 x 3/4" Pan Head Tamper-proof Screw
2	42843	6-32 Hex Nut
1	67478	Polycarbonate Light Cover
1	68590	LED Faceplate Light
1		LED Blue Light

WEBS-MT/R-KIT

QTY	Part Number	Description
4	83075	WEBS Loudspeaker
1	NA	Terminal Blocks on DIN rail
1	68605A	Local Paging Microphone
1	68635	Paging Amplifier
1	WEBS-VCU	WEBS-Volume Control Unit
4	19667	RCA Audio Cable
4	4247	8-32 x 1/2" Slotted Pan Head Screw
4	42847	8-32 Hex Nut
3	67475	Gel-filled wire nut
1	86394	Power Supply 12VDC (not included if WEBS-BACKUP is used)

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WEBS-BACKUP (optional)

QTY	Part Number	Description
1	86383	Battery charger
2	68594	12VDC Battery
1	25192	Mounting shelf for battery
4	42875	10-24 x1/2" phillips pan head
4	42816	10-24 hex nut
1	42767	#10 round hole washer
1	NA	Battery Cable
1	NA	Battery Interconnect Cable

III. Physical Installation

1. Install one 3/4" nut and one washer on each anchor bolt 2.5"-3.5" above grade to top of washer. This will allow for a **1/2" air gap** between the foundation and the tower which will allow airflow and prevent moisture problems. Verify that the nuts are level (0° pitch).



NOTE: To insure proper grounding of all electrical components, the tower mount should be effectively earth grounded from the grounding stud (located across from the lower access panel) with 6 AWG or better insulated, stranded copper wire to the metallic power service raceway (conduit) or an 8' or longer corrosion-resistant ground spike.

2. After removing the lower access panel of the tower, install the tower onto the bolts with the Emergency Phone opening oriented in the desired direction. Install second set of nuts and washers. Tighten the upper nuts; the bottom set is only for leveling.

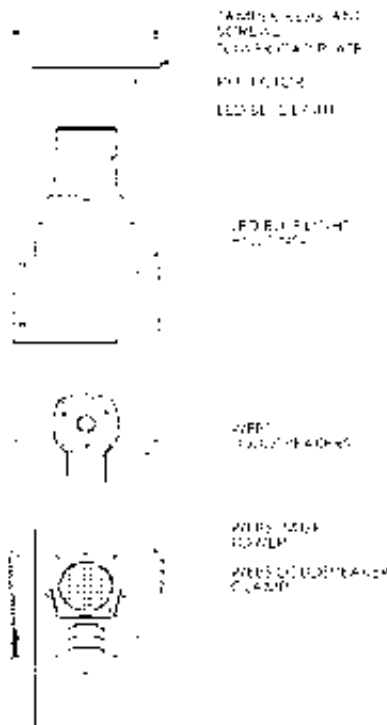


Figure 1. Installing the WEBS Loudspeakers and LED Blue Light Housing Assembly.

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3. Take off the tower cap plate along with the LED Blue Light housing as shown in **Figure 1**. Install the four WEBS Loudspeakers and clamp them down to the tower metal, insuring a tight fit with their respective gaskets. Install the LED Blue Light to the base of the housing and fasten the entire assembly on to the tower. Reattach the cap plate to the tower.
4. Remove the rear access panel (top) of the tower and mount the paging amplifier vertically aligned (power connection / speaker output side facing up and audio input side facing down) with the help of four (4) #10-32 screws and nuts provided. Also mount the **WEBS-VCU** on to the upper mounting panel of the tower as shown in **Figure 2**. Connect the paging amplifier audio input channels to the respective audio outputs on the **WEBS-VCU** via RCA audio cables provided. (e.g. Amplifier audio input channel 1 to **WEBS-VCU** audio output 1).

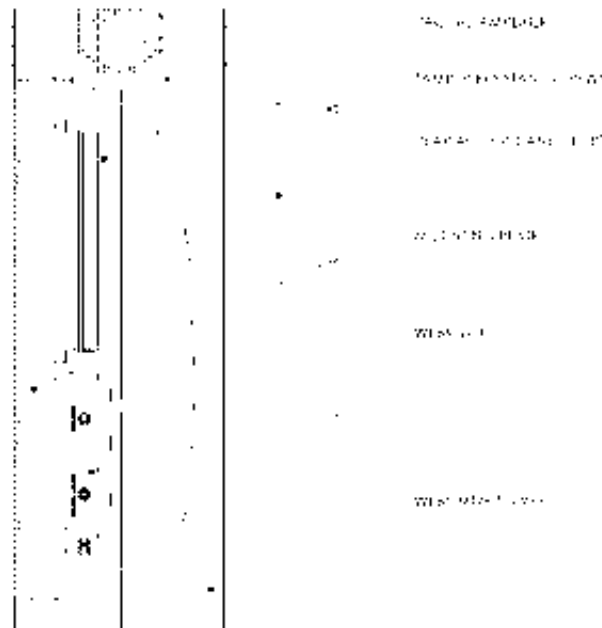


Figure 2. Installing the Paging Amplifier and the WEBS-Volume Control Unit (WEBS-VCU).

5. If using the **WEBS-BACKUP** option, place the battery mounting shelf on the two L-brackets located in the lower section of the tower. Rest the batteries in the upright position on the shelf. Mount the battery charger on to the mounting panel and secure the assembly in place onto the mounting screws provided. Connect DC output end of the battery charger to the battery via the quick connect ring terminals (Red ring terminal to positive of one battery and black ring terminal to negative of the second battery). Connect the AC input end of the charger to 120 VAC power source. Connect the battery cable to the battery, with the white cable to the positive terminal of the battery and black cable to the negative terminal of the battery and connect the other end to the DIN Rail Terminal Block, terminal no. 23 and 25 as shown in **Table 1**.

OR

Install the power supply at a convenient position on the mounting panel provided. Connect the power supply to 120 VAC on one end and connect the other end to the DIN Rail Terminal Block, terminal no. 23 and 25 as shown in **Table 1**.

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Terminal # (Side A)	Connection	Terminal # (Side B)	Connection
1	Emergency Phone AUX. Output # 1	30	Auxiliary Device Trigger Wire
2	Emergency Phone AUX. Output # 1	31	Auxiliary Device Trigger Wire
3	Emergency Phone AUX. Output # 2	32	LED Blue Light [Orange]
4	Emergency Phone AUX. Output # 2	33	LED Blue Light [Black]
5	Emergency Phone AUX. Output # 3	34	Auxiliary Device Trigger Wire
6	Emergency Phone AUX. Output # 3	35	Auxiliary Device Trigger Wire
7	WEBS-VCU — 12 VDC Trigger [Orange]	36	Paging Amplifier — 12 VDC Trigger [Orange]
8	WEBS-VCU — Ground [Black]	37	Paging Amplifier — Ground [Black]
9	Local Paging Microphone — 12 VDC [White]	38	WEBS- VCU [Microphone Input] — 12 VDC [White]
10	Local Paging Microphone — 12 VDC Trigger [Green]	39	WEBS- VCU [Microphone Input] — 12 VDC Trigger [Green]
11	Local Paging Microphone — Audio(+) [Red]	40	WEBS-VCU [Microphone Input] — Audio (+) [Red]
12	Local Paging Microphone — Audio(-) [Black]	41	WEBS- VCU [Microphone Input] – Audio (-) [Black]
13	WEBS-CM-2 / VOIP-500 / WEBS-ZPS — 12 VDC Trigger [Green]	42	WEBS- VCU [WEBS-CM-2 / WEBS-ZPS Input] — 12 VDC Trigger [Green]
14	WEBS-CM-2 / VOIP-500 / WEBS-ZPS — 12 VDC [White]	43	WEBS- VCU [WEBS-CM-2 / WEBS-ZPS Input] — 12 VDC [White]
15	WEBS-CM-2 / VOIP-500 / WEBS-ZPS — Audio (+) [Red]	44	WEBS- VCU [WEBS-CM-2 / WEBS-ZPS Input] — Audio (+) [Red]
16	WEBS-CM-2 / VOIP-500 / WEBS-ZPS — Audio (-) [Black]	45	WEBS- VCU [WEBS-CM-2 / WEBS-ZPS Input] — Audio (-) [Black]
17	WEBS-ZPS — Bare Shield [Yellow]	46	WEBS- VCU [WEBS-CM-2 / WEBS-ZPS Input] — Bare Shield [Yellow]
18	Not Used	47	WEBS-CM-2 – 12 VDC Power (-) [Black]
19	Not Used	48	Face Plate Light – 12 VDC Power (-) [Black]
20	Not Used	49	
21	Not Used	50	Paging Amplifier – 12 VDC Power (-) [Black]
22	Not Used	51	WEBS-VCU / Paging Amplifier Shield
23	Power Supply / Battery — 12 VDC (-) [Black]	52	WEBS-VCU – 12 VDC Power (-) [Black or Green]
24	Connect to GROUND	53	GROUND
25	Power Supply / Battery — 12 VDC (+) [Red or White]	54	WEBS-VCU — 12 VDC Power (+) [Red or Brown]
26	Not Used	55	Paging Amplifier — 12 VDC Power (+) [Red or White]
27	Not Used	56	
28	Not Used	57	Face Plate Light — 12 VDC Power (+) [Red]
29	Not Used	58	WEBS-CM-2 — 12 VDC Power (+) [Red]

Table 1. WEBS-MT/R DIN Rail Terminal Block Connections.

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6. Install the LED light board over the phone opening. A polycarbonate light cover protects the LED light assembly from the inside. Peel the protective paper off the light cover and fit it onto the studs inside the tower. Slide the LED board over the studs with the LEDs facing down. The built-in spacers will keep the LEDs from resting on the acrylic window. Tighten down using the enclosed nuts. Be careful not to over tighten to avoid cracking the circuit board.
7. Install the DIN rail on the two welds studs behind the phone opening. Install the local paging microphone and mounting bracket inside the microphone compartment as shown in **Figure 3**. Attach the instructional label below (provided) on to the inner surface of the microphone compartment door.



NOTE: The microphone gets activated **two seconds** after depressing the microphone switch.

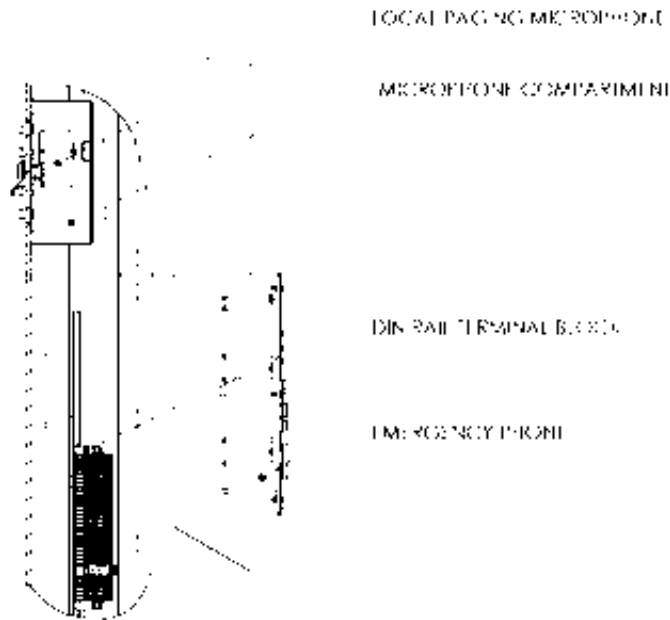


Figure 3. Installing the Local Paging Microphone, DIN Rail Terminal Block and Emergency Phone.

8. Attach the Emergency Phone to the tower with six (6) 10-24 oval head tamperproof screws (included with the phone). When using an ETP-400 Series Emergency Phone connect the phone line coming into the tower to the male RJ11 connector coming from the Emergency Phone. An outdoor rated RJ11 female modular jack on the end of the incoming phone line is strongly recommended.
9. Re-attach the rear access panels to the tower.



NOTE: It is the installer's obligation to ensure compliance with all national, regional, and local regulations. ALL WIRING MUST USE DRIP-LOOPS.

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IV. Wiring Installation

1. Make all connections to the DIN Rail Terminal Block as shown in **Table 1**. When using the **ETP-EL12/24 (12 VDC)**, connect it (power) to terminal no. 49 (12 VDC Power (-), Black) and 56 (12 VDC Power (+), White) on DIN Rail Terminal Block. When using the **ETP-EL (120VAC)**, connect it (power) directly to main 120 VAC power source
2. Connect the Paging Amplifier to the WEBS Loudspeakers, DIN Rail Terminal Block and the **WEBS-VCU** as shown in **Figure 4**. Connect the speaker audio cables to their corresponding paging amplifier speaker output cables as follows:

Speaker No.	Amplifier Cable
Speaker #1	White and White/Black
Speaker #2	Grey and Grey/Black
Speaker #3	Green and Green/Black
Speaker #4	Purple and Purple/Black

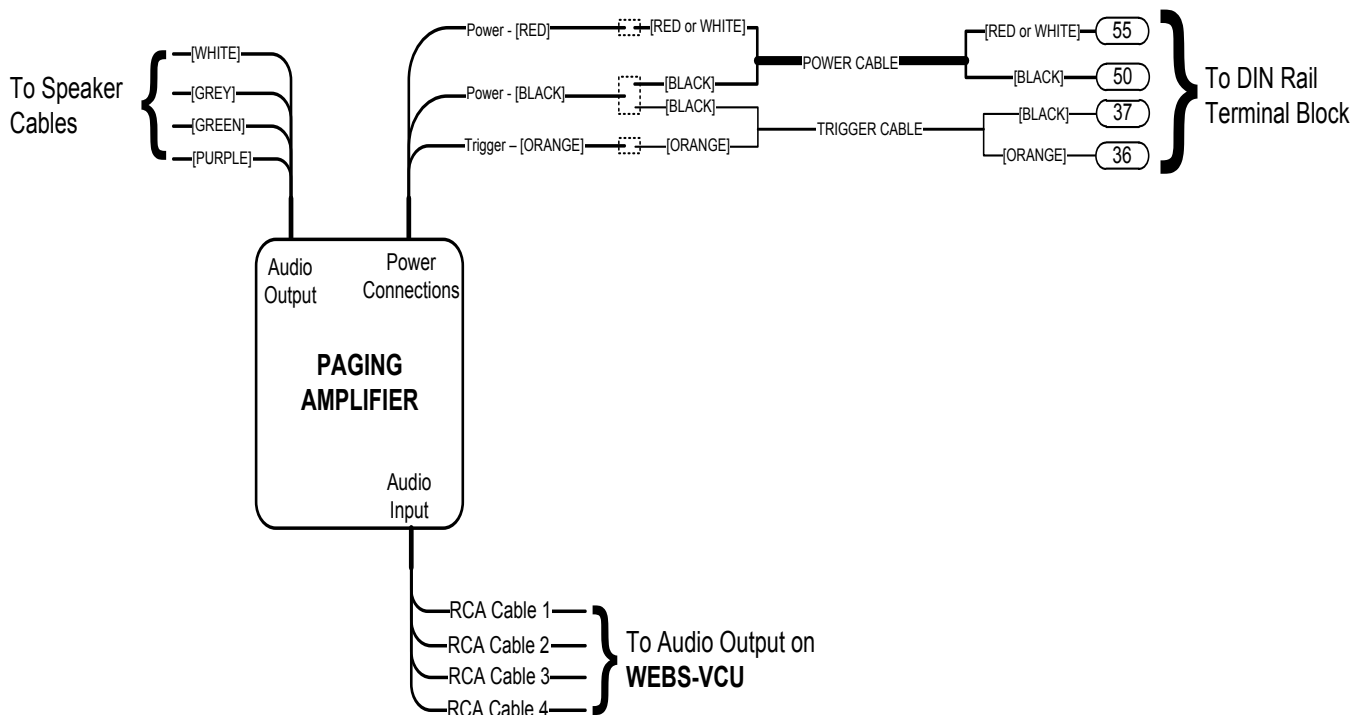


Figure 4. Paging Amplifier, WEBS Loudspeakers, WEBS-VCU and DIN Rail Terminal Block Connectivity Layout

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3. Connect the **WEBS-VCU** and the DIN Rail Terminal Block as shown in **Figure 5**.

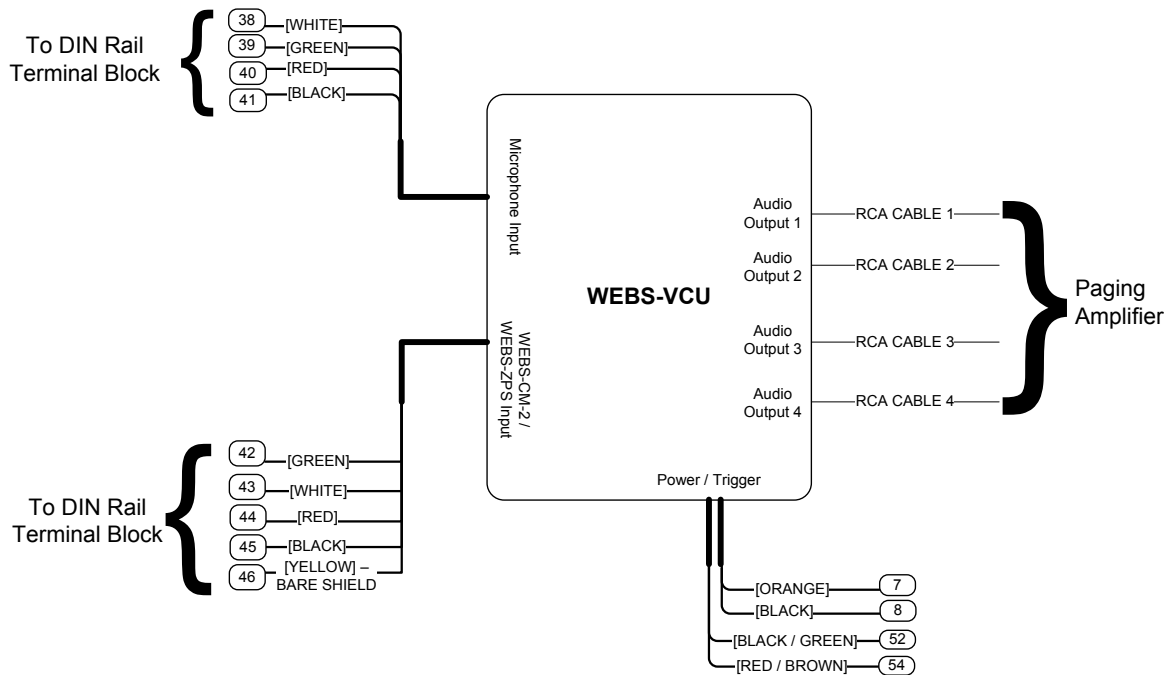


Figure 5. WEBS-VCU, Paging Amplifier and DIN Rail Terminal Block Connectivity Layout

4. When using **WEBS-CM-2** or **VOIP-500 Series** Emergency Phone make connections to the DIN Rail Terminal Block as shown in **Figure 6**.

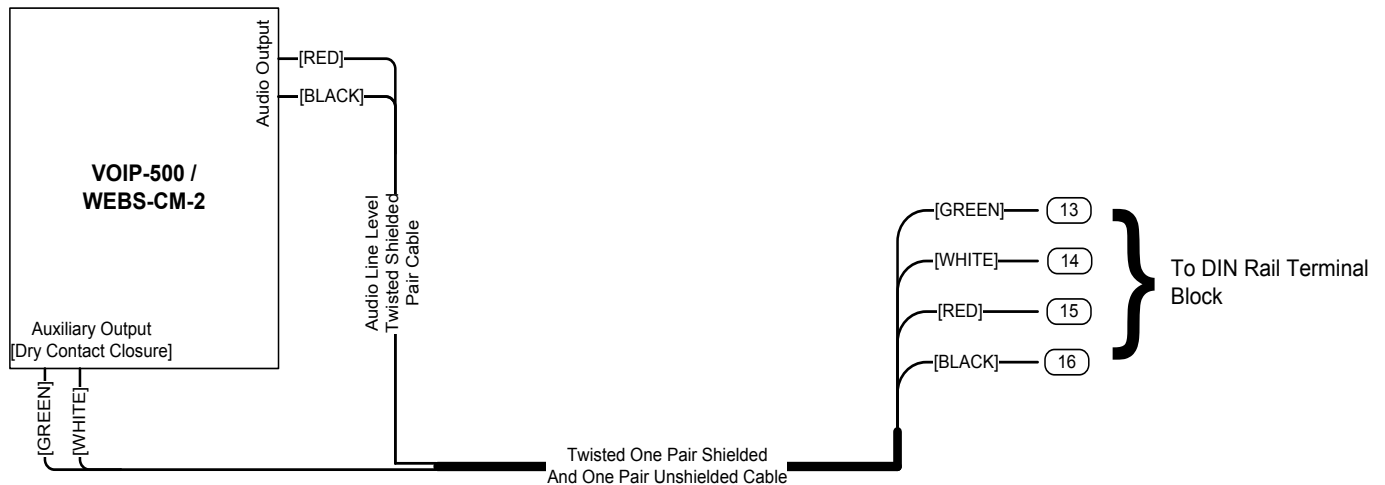


Figure 6. VOIP-500 / WEBS-CM-2 and DIN Rail Terminal Block Connectivity Layout

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5. When using the **WEBS-ZPS** make connections to the DIN Rail Terminal Block as shown in **Figure 7**.

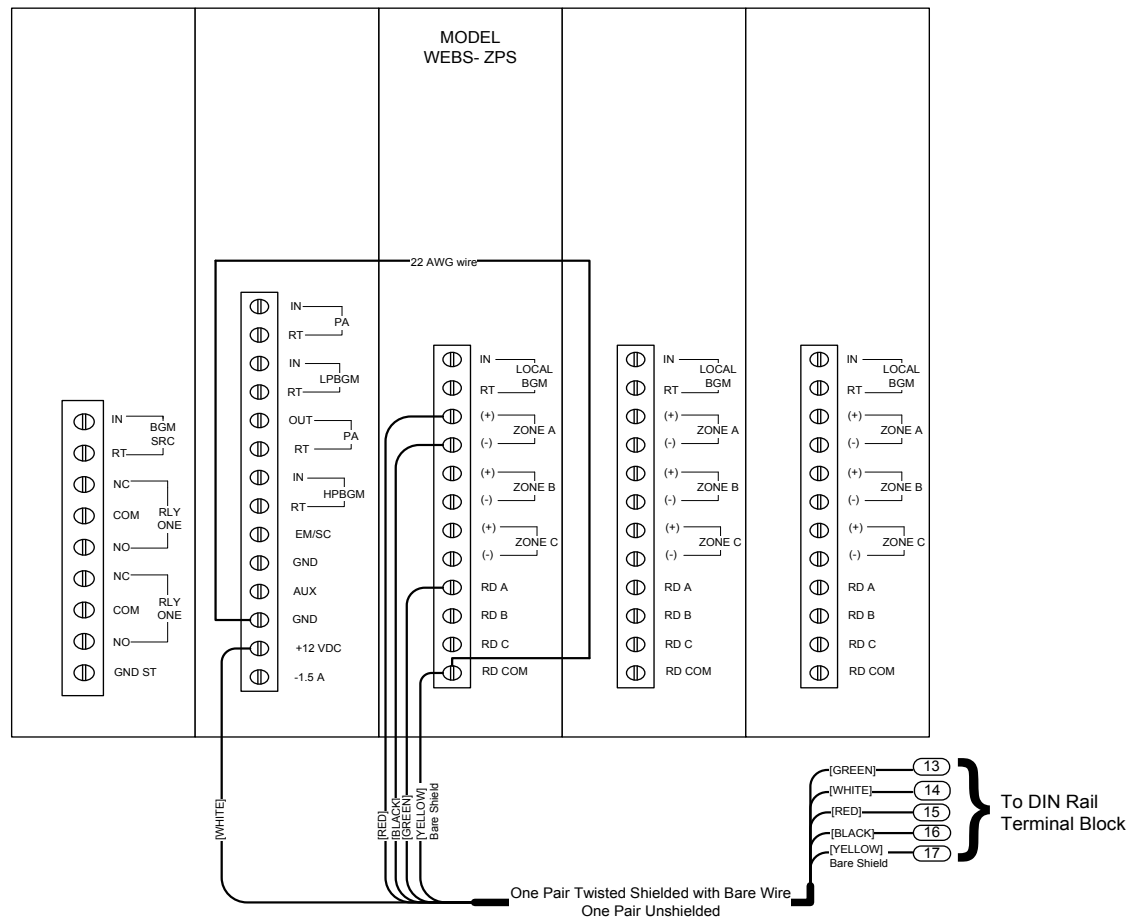


Figure 7. WEBS-ZPS and DIN Rail Terminal Block Connectivity Layout