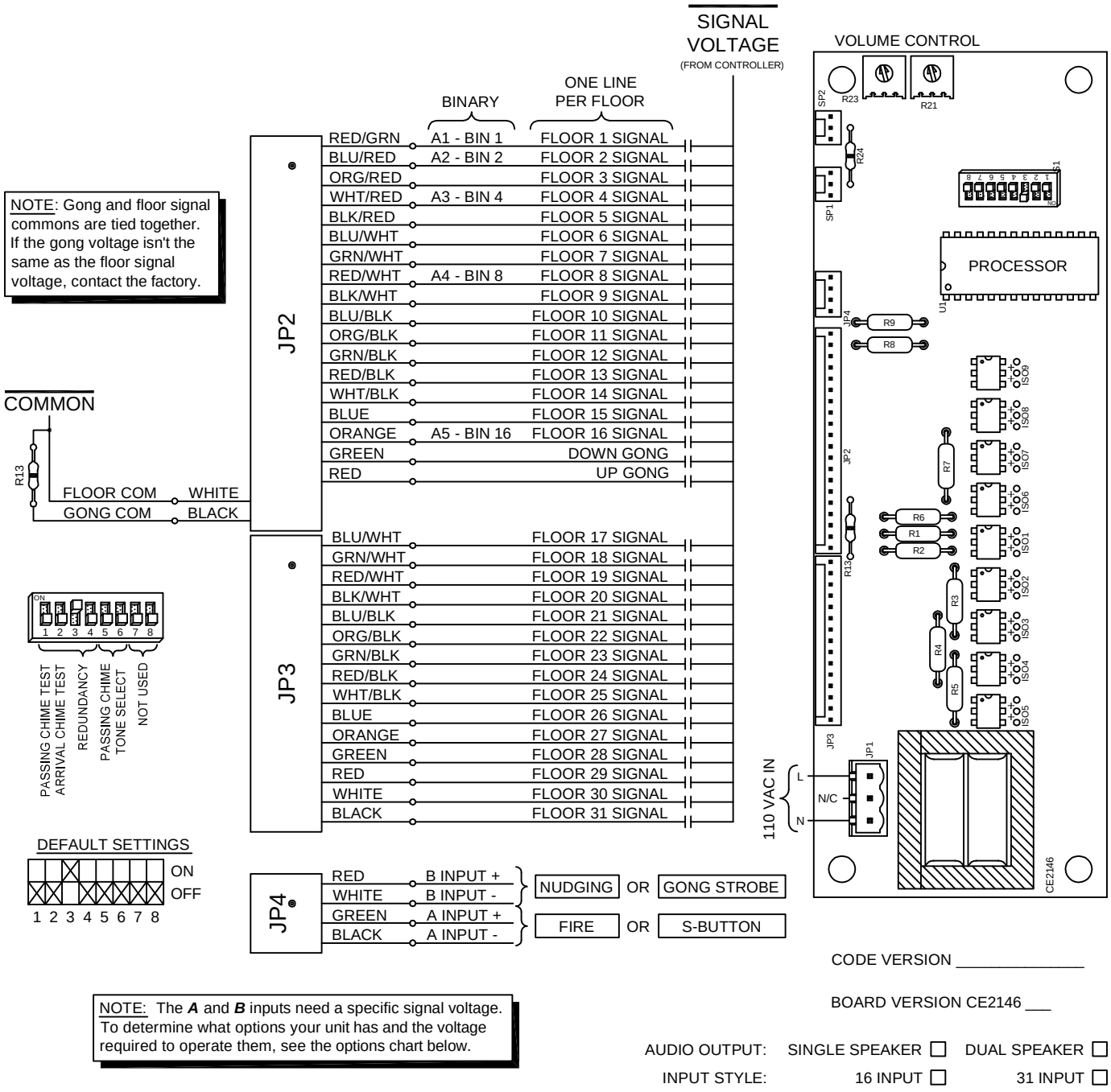
MDPCB

JOB# _____



NOTE: Gong and floor signal commons are tied together. If the gong voltage isn't the same as the floor signal voltage, contact the factory.

NOTE: The ***A*** and ***B*** inputs need a specific signal voltage. To determine what options your unit has and the voltage required to operate them, see the options chart below.

CODE VERSION _____

BOARD VERSION CE2146 ___

AUDIO OUTPUT: SINGLE SPEAKER ☐ DUAL SPEAKER ☐

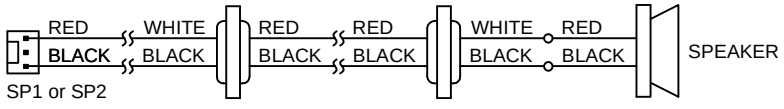
INPUT STYLE: 16 INPUT ☐ 31 INPUT ☐

S-Button (One Trip Passing Chime): When signalled, the passing chime will beep at every floor until the direction of travel changes (determined by the UP and DOWN gong signals.

Gong Strobe: When triggered while a gong signal is active, the arrival gong sounds. Typically, this signal is activated by a "Door Open" contact to avoid sounding the gong until the doors are fully open.

INPUT	OPTION	INSTALLED		SIGNAL VOLTAGE
		YES	NO	
A	FIRE SERVICE ALARM			_____
	S-BUTTON			
B	NUDGING BUZZER			_____
	GONG STROBE			

REMOTE SPEAKER CONNECTION
USE C.E. PART #40040001



DATE DRAWN: 09/26/95	DRAWN BY: DAC	REQUESTED BY: D.R.	C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43506 (419) 636-6705
BOARD NUMBER: 2146	LAST DATE REVISED: 10/28/15	APPROVED BY:	
PRODUCT: MDPCB			DWG. NO.: MDPCB005 REV: C

VOLUME CONTROL

There are two volume controls on this unit, labeled R21 and R23.

If the unit is configured to use a single speaker, connect the speaker to SP1. All four tones will come from this speaker.

If the unit is configured to use two speakers, the PASSING CHIME will sound through the speaker connected to SP1. The HANDICAP GONG, NUDGING BUZZER, and FIRE SERVICE ALARM will sound through the speaker at SP2.

Volume control R21 adjusts the PASSING CHIME volume for the speaker connected to SP1.

Volume control R23 adjusts the volume of the HANDICAP GONG, the NUDGING BUZZER, and the FIRE SERVICE ALARM for the speaker connected to SP2.

If the zero-ohm resistor is installed in R24, the unit only needs one speaker. Connect it to the output at SP1. Both R21 and R23 control the volume for single-speaker configurations.

DIP SWITCH SETTINGS

Switch S1 is a bank of eight DIP switches, numbered 1 through 8.

NOTE: DIP switches 7 and 8 are not used.

ONLY DIP Switch 1 *ON*: Passing Chime Self-Test

In Passing Chime Self-Test Mode, the unit beeps continuously. Use this test mode to confirm that the unit has power and to aid in setting the volume level.

ONLY DIP Switch 2 *ON*: Handicap Gong Self-Test

In Handicap Gong Self-Test Mode, the gong sounds twice, pauses, and then repeats. Use this test mode to confirm that the unit has power and to aid in setting the volume level.

DIP Switches 1, 2, 3, and 4: Test Mode/Redundancy Threshold

The microprocessor reads incoming floor signals. To accept a floor change, the unit must read the same input value several times. This "debounces" the input and filters out mechanical or electrical noise. These four DIP switches set the number of times the unit reads the data. Use the following table to set the DIP switches:

DS4	DS3	DS2	DS1	LEVEL	FUNCTION
OFF	OFF	OFF	OFF	0	Fastest Operation, Least Correction
OFF	OFF	OFF	ON	--	Passing Chime Self-Test
OFF	OFF	ON	OFF	--	Handicap Gong Self-Test
OFF	OFF	ON	ON	1	
OFF	ON	OFF	OFF	2	
OFF	ON	OFF	ON	3	
OFF	ON	ON	OFF	4	
OFF	ON	ON	ON	5	
ON	OFF	OFF	OFF	6	
ON	OFF	OFF	ON	7	
ON	OFF	ON	OFF	8	
ON	OFF	ON	ON	9	
ON	ON	OFF	OFF	10	
ON	ON	OFF	ON	11	
ON	ON	ON	OFF	12	
ON	ON	ON	ON	13	Slowest Operation, Most Correction

As you increase the switch setting, the number of reads increases and results in more "filtering" of noise and bad signals. The trade-off is speed. The higher the number of reads, the longer the system takes to decide if the input has changed

Leave these DIP switches set at the factory default (DIP switch "3" *ON*) unless there is a performance problem.

DIP Switches 5 and 6: Passing Chime Tone Select

Four passing chime tones are available. Put the unit in Passing Chime Self-Test Mode (only DIP switch 1 *ON*) and use DIP switches 5 and 6 to select the tone you prefer.

DATE DRAWN:	DRAWN BY:	REQUESTED BY:	C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43506 (419) 636-6705
10/03/05	DAC	DV	
BOARD NUMBER: 2146	LAST DATE REVISED: 10/20/15	APPROVED BY:	
PRODUCT: MDPCB OPERATING INSTRUCTIONS			DWG. NO. MDPCB020 REV: B