ELESC-K2

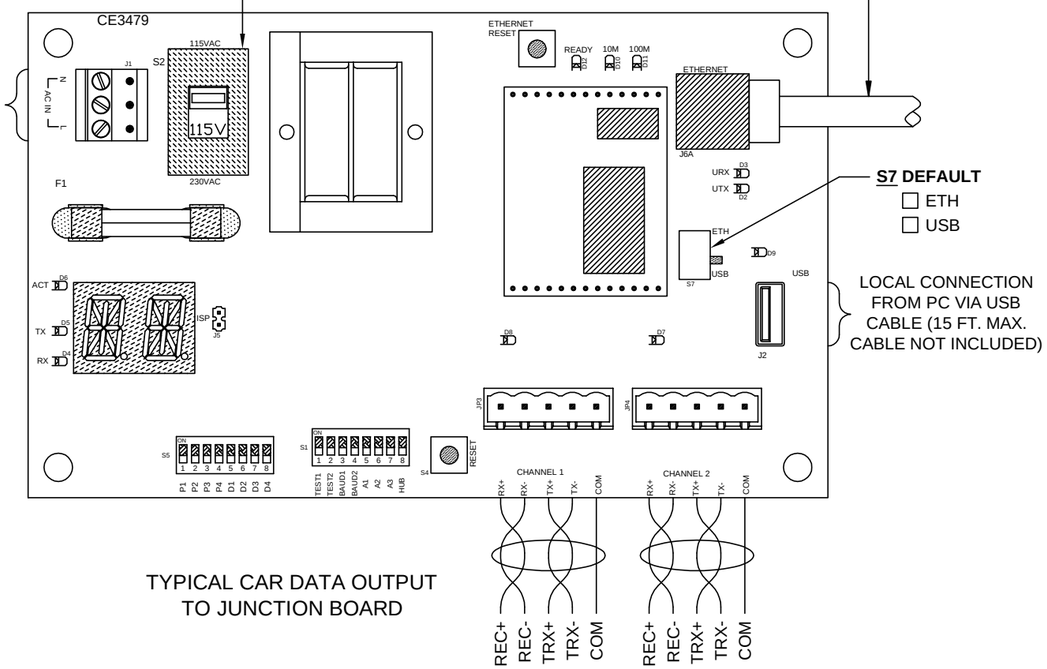
VOLTAGE SWITCH: SET TO THE CORRECT INPUT VOLTAGE PRIOR TO APPLYING POWER TO THE BOARD

AC POWER INPUT
115 VAC ☐
230 VAC ☐

CAT 5e OR CAT 6 CABLE FROM CUSTOMER'S 10/100 MBIT ETHERNET NETWORK

S7 DEFAULT
☐ ETH
☐ USB

LOCAL CONNECTION FROM PC VIA USB CABLE (15 FT. MAX. CABLE NOT INCLUDED)



TYPICAL CAR DATA OUTPUT TO JUNCTION BOARD

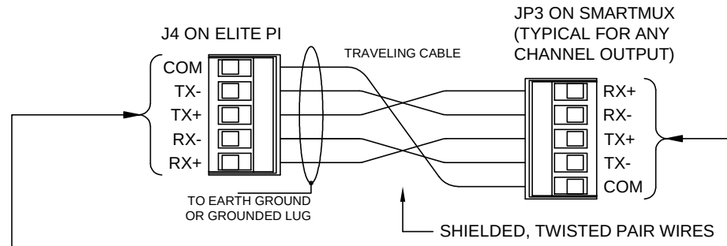
REC+ REC- TRX+ TRX- COM

REC+ REC- TRX+ TRX- COM

TRAVELING CABLE CONNECTIONS

WIRE CONNECTIONS FOR CAR-SPECIFIC DATA WHEN NOT USING THE CAR JUNCTION BOARD

JOB# _____



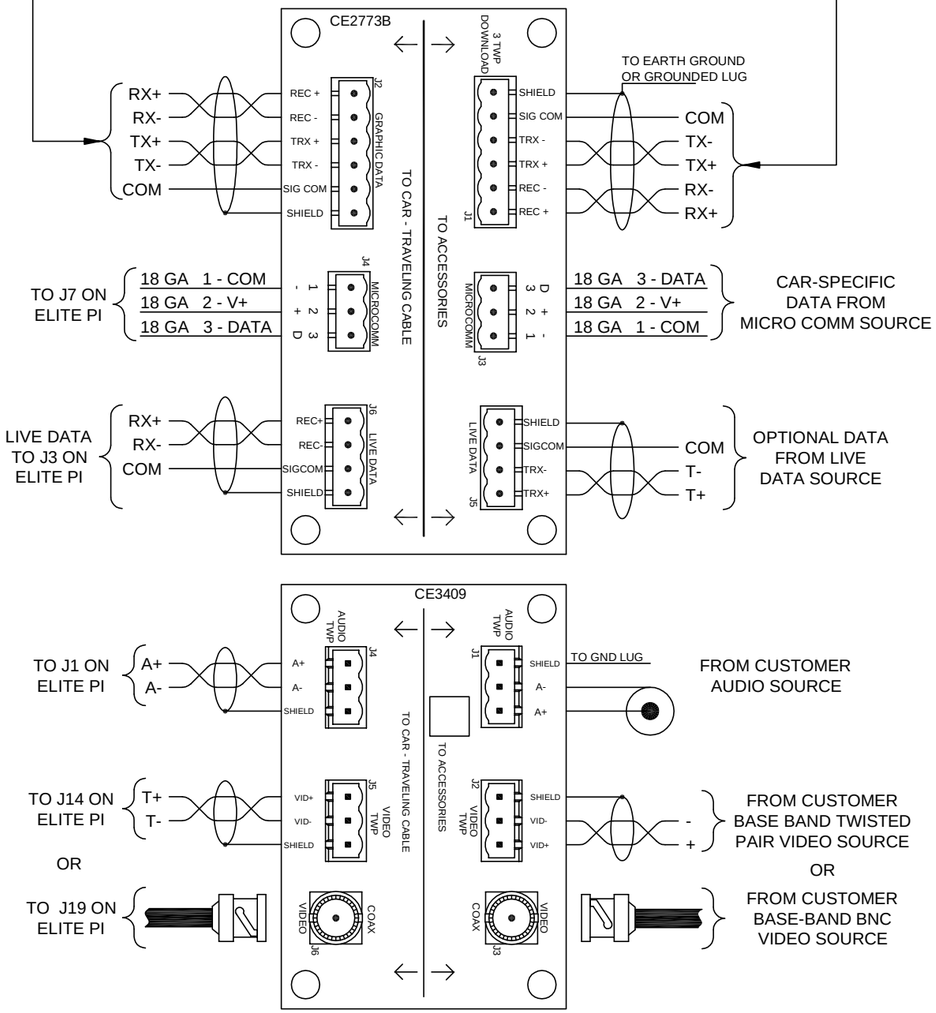
OR

GRAPHICS DATA TO J4 ON ELITE PI

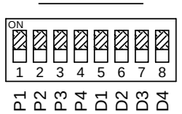
GRAPHICS DATA FROM SMART-MUX IN ELESC BOX

JUNCTION BOARD CONNECTIONS

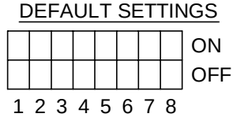
NOTE: JUNCTION BOARDS SHOULD BE LOCATED IN OR NEAR CONTROLLER

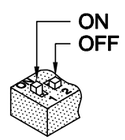


S5 DETAIL

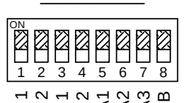


DEFAULT SETTINGS

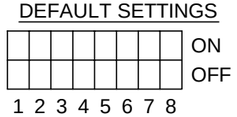




S1 DETAIL



DEFAULT SETTINGS

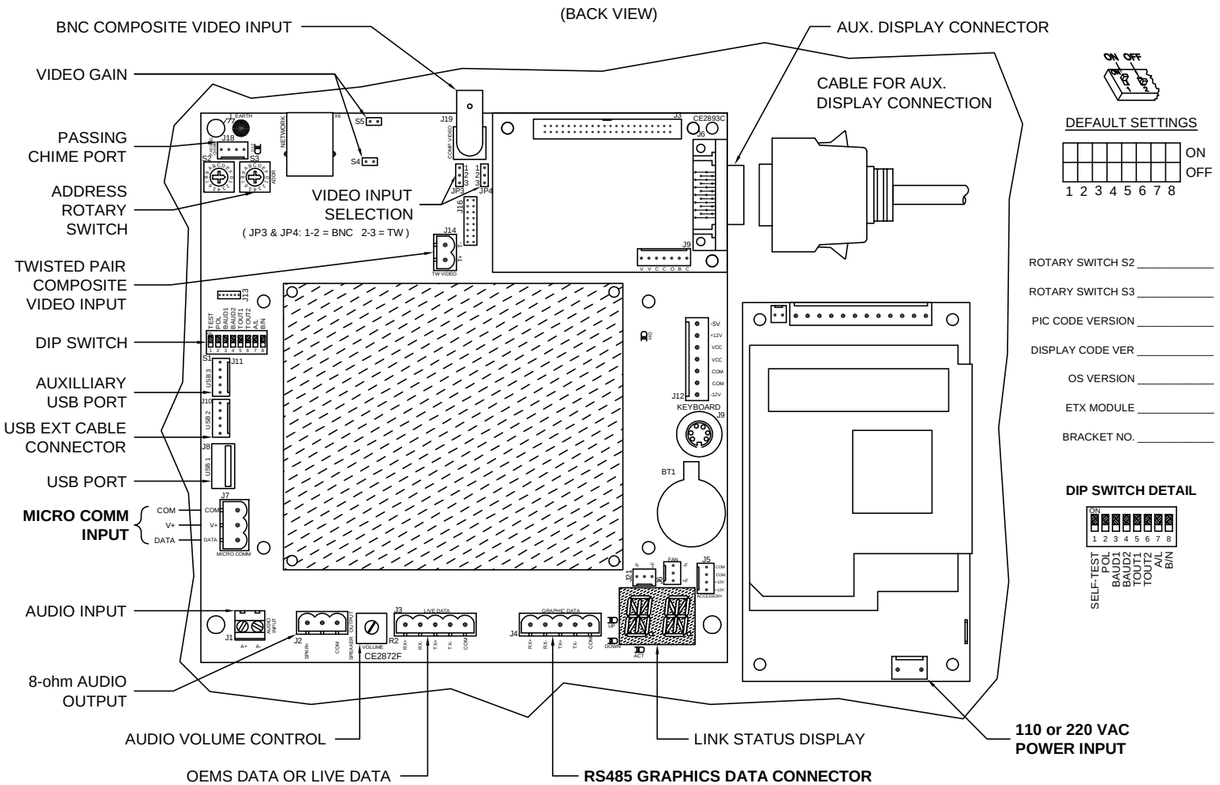


CODE VERSION _____

BOARD VERSION CE3341 ____

DATE DRAWN: 04/21/08	DRAWN BY: DAC	REQUESTED BY: TE	C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43506 (419) 636-6705
BOARD NUMBER: N/A	LAST DATE REVISED: -	APPROVED BY:	
PRODUCT: ELESC-K2		DWG. NO.: ELESC-K2_01	REV.: -

8.4/10.4 MAIN TFT (Video Option)



DEFAULT SETTINGS

ON
OFF
1 2 3 4 5 6 7 8

ROTARY SWITCH S2 _____

ROTARY SWITCH S3 _____

PIC CODE VERSION _____

DISPLAY CODE VER _____

OS VERSION _____

ETX MODULE _____

BRACKET NO. _____

DIP SWITCH DETAIL

NORMAL RUN MODE

DIP SWITCH SETTINGS

DIP Switch 1 - Test Mode
- Off = Normal Run Mode
- On = Test Mode. The display will cycle up and down through all programmed floors (Front Side Only).

DIP Switch 2 - Audio Output
- Off = Audio Software Controlled
- On = Audio Enabled

DIP Switch 4, 3 - RS485 Configuration Link Baud Rate (Must match Transfer Program)

DS4	DS3	BAUD RATE
OFF	OFF	9600 (Default)
OFF	ON	19200
ON	OFF	38400
ON	ON	57600

DIP Switch 6, 5 - Watchdog Period (Length of time PIC waits for response from Elite display before resetting the display)

DS6	DS5	Wait Period
OFF	OFF	One Minute
OFF	ON	Two Minutes
ON	OFF	Three Minutes (Default)
ON	ON	Never Reset Display

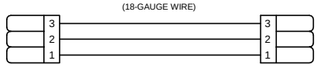
DIP Switch 7 - Converter Board Display Mode (does not affect TFT screen)
- Off = Scan Slot Data Displayed
- On = ASCII Data Displayed

NOTE: Left Cube Dot = Priority Message Present
Right Cube Dot = Door Strobe Active

DIP Switch 8 - Single/Multi-Car
- Off = Single Car
- On = Multi-Car

MICRO COMM LINK

(18-GAUGE WIRE)



ROTARY SWITCH SETTINGS

Rotary Switch S2 - Used for USB transfers. Default setting is 0.

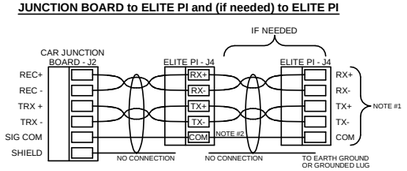
Rotary Switch S3 - Unit Address

This switch sets the address of the Elite PI unit. The default is address 1, which is switch setting 0.

NOTE: This address must match the Transfer program setting.

S3	Unit Address	S3	Unit Address
0	1	8	9
1	2	9	10
2	3	A	11
3	4	B	12
4	5	C	13
5	6	D	14
6	7	E	15
7	8	F	16

JUNCTION BOARD to ELITE PI and (if needed) to ELITE PI



CABLE NOTES:

1) Connections should be made using shielded, twisted-pair wires. We recommend using Consolidated 24-gauge, 3-pair shielded cable, part no. CL-5756 or equivalent.

2) Only one wire of the twisted pair is used for signal common.

3) The audio input cable should be a shielded, twisted pair cable.

4) BNC composite video cable - 75-ohm RG6 recommended.

5) Twisted pair video cable - Unshielded twisted-pair wire recommended.

VIDEO TEST MODE

Video test mode uses a combination of DIP switch and rotary switch settings. Please write down the initial setting of the S2 and S3 rotary switches before starting this process.

Entering Video Test Mode

Set DIP switch 1 to OFF, then set S2 and S3 to position F. Next, set DIP switch 1 to ON. The Live Video Adjustment menu will appear on the screen with Brightness highlighted.

Choosing Item to Adjust

The highlighted item is the current selection. To choose a different item to adjust, set S2 as shown below:

S2	Adjustment	S2	Adjustment
F	Brightness	B	Video Standard
E	Contrast	A	Vertical Stretch
D	Color	9	Default
C	Tint	8	Original

Making Adjustments

Highlight the item to change and turn S3 for the best display quality.

Default and Original Settings

Default will reset the display to the factory default settings, and Original will cancel any changes made and restore the values stored before entering Video Test mode. Highlight the item to use, turn S3 in either direction, and wait five seconds. The display will reset to the default or previous settings.

Exiting Video Test Mode

To save the new video settings and exit Video Test, set DIP switch 1 to OFF. Reset S2 and S3 to the values recorded before starting the process.

Video Gain

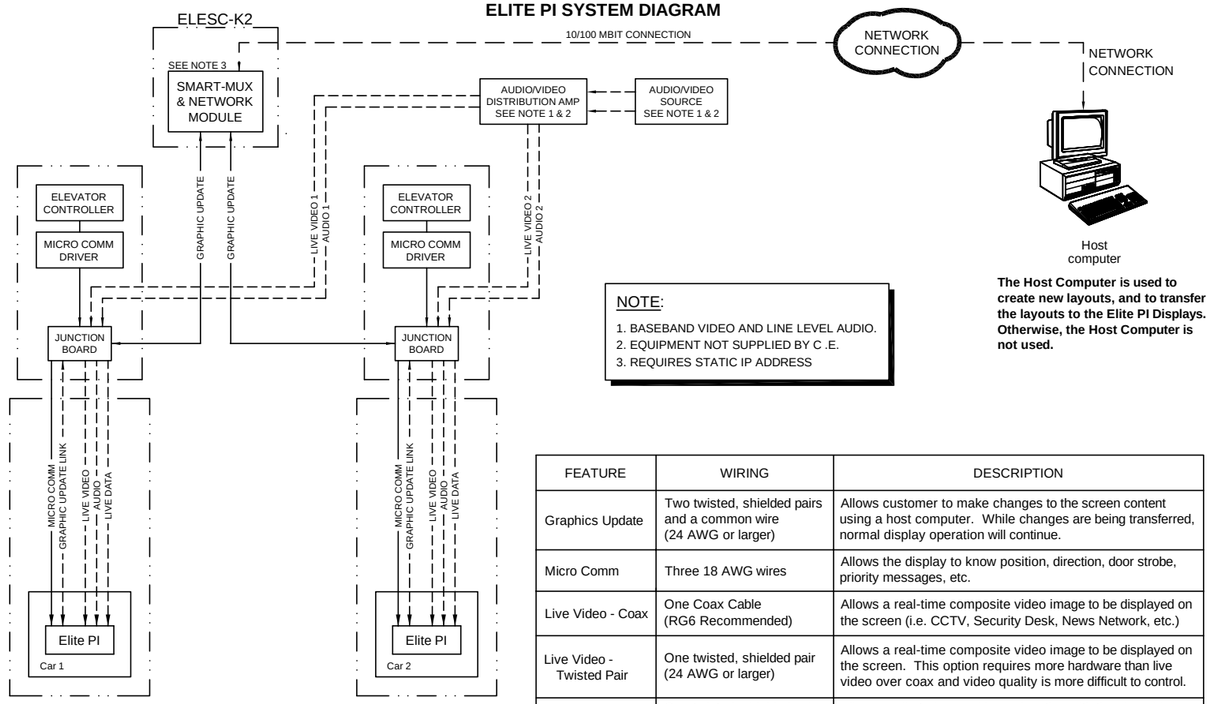
S5 and S4 control the video gain. Use a shunt to short the pins of the switches as shown in the table below (OFF = No Shunt, ON = Shunt):

S5	S4	VIDEO GAIN
OFF	OFF	No Gain (Default)
OFF	ON	Lowest Gain
ON	OFF	| | |
ON	ON	Highest Gain

Adjusting Audio Volume

If audio is needed, connect an 8-ohm speaker to J1 on the converter board. Set the volume by adjusting Volume pot R2 (3/4-turn pot). Adjust the pot clockwise to increase the volume.

ELITE PI SYSTEM DIAGRAM



The ELESC-K2 supports two cars.

NOTE:
1. BASEBAND VIDEO AND LINE LEVEL AUDIO.
2. EQUIPMENT NOT SUPPLIED BY C .E.
3. REQUIRES STATIC IP ADDRESS

The Host Computer is used to create new layouts, and to transfer the layouts to the Elite PI Displays. Otherwise, the Host Computer is not used.

FEATURE	WIRING	DESCRIPTION
Graphics Update	Two twisted, shielded pairs and a common wire (24 AWG or larger)	Allows customer to make changes to the screen content using a host computer. While changes are being transferred, normal display operation will continue.
Micro Comm	Three 18 AWG wires	Allows the display to know position, direction, door strobe, priority messages, etc.
Live Video - Coax	One Coax Cable (RG6 Recommended)	Allows a real-time composite video image to be displayed on the screen (i.e. CCTV, Security Desk, News Network, etc.)
Live Video - Twisted Pair	One twisted, shielded pair (24 AWG or larger)	Allows a real-time composite video image to be displayed on the screen. This option requires more hardware than live video over coax and video quality is more difficult to control.
Audio	One twisted, shielded pair (24 AWG or larger)	Allows audio to be used in conjunction with the Live Video. The speaker is supplied by the customer.

SMART-MUX SWITCH FUNCTIONS

S1 DIP SWITCH SETTINGS

DIP Switches 1, 2 - Run Mode

DS1 - Test1	DS2 - Test2	UNIT RUN MODE
OFF	OFF	Normal Operating Mode
ON	OFF	Port/Display Test Mode: Sends out test packets to the Port/Address specified on S5. Display shows "D1" then "OK" for success, or "--" for failure.
OFF	ON	Alternating Output Test: Sends an alternating 255 and 0 out to the port (meter checks).
ON	ON	Factory Test Mode: Used at the factory for initial board tests.

DIP Switches 3, 4 - Baud Rate

DS3 - Baud1	DS4 - Baud2	BAUD RATE - NOTE: Elite PI display and PC Transfer application must also be set to the same baud rate
OFF	OFF	9600 - Factory Default
ON	OFF	19200
OFF	ON	38400
ON	ON	57600

DIP Switches 5, 6, 7, 8 - Board Address

DS5 - A1	DS6 - A2	DS7 - A3	DS8 - HUB	ADDRESS - NOTE: The PC Transfer app must also be set to use this address
OFF	OFF	OFF	OFF	Bank 1 - Factory Default
ON	OFF	OFF	OFF	Bank 2
OFF	ON	OFF	OFF	Bank 3
ON	ON	OFF	OFF	Bank 4
OFF	OFF	ON	OFF	Bank 5
ON	OFF	ON	OFF	Bank 6
OFF	ON	ON	OFF	Bank 7
ON	ON	ON	OFF	Bank 8
OFF	OFF	OFF	ON	Hub 1
ON	OFF	OFF	ON	Hub 2

S7 SLIDE SWITCH SETTINGS

Slide Switches S3 and S7 select the active PC Input connection

S7	Active Input Connection
USB	J2 - USB - Connects to PC using a standard USB cable (10 ft. max)
ETH	J6A - ETHERNET - Must have optional Ethernet board installed (Network Enabler Administration software is used on the PC for the Virtual Serial Port)

S5 DIP SWITCH SETTINGS

DIP Switches 1, 2, 3, 4 - Test Port Address - Selects Port to use for Port Test

DS1 - P1	DS2 - P2	DS3 - P3	DS4 - P4	Port Selected
OFF	OFF	OFF	OFF	Channel 1 - JP3
ON	OFF	OFF	OFF	Channel 2 - JP4

DIP Switches 5, 6, 7, 8 - Display Address to use for Port Test

DS5 - D1 (1)	DS6 - D2 (2)	DS7 - D3 (4)	DS8 - D4 (8)	Display Address
OFF	OFF	OFF	OFF	Display 1
ON	OFF	OFF	OFF	Display 2
OFF	ON	OFF	OFF	Display 3
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
OFF	ON	ON	ON	Display 15
ON	ON	ON	ON	Display 16

DATE DRAWN: 04/21/09	DRAWN BY: DAC	REQUESTED BY: TE	C.E. ELECTRONICS, INC. 2107 Industrial Drive Bryan, Ohio 43506 (419) 636-6705
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PRODUCT: ELESC-K2 TFT SYSTEM		DWG. NO.: ELESC-K2_02	REV: -