

FAIR-PLAY

LED/BAR DIGIT SHOT TIMER INSTRUCTION MANUAL

REVISION DATE: 08-08-23

PART#: 98-0013-03

FAIR-PLAY

SERVICE & CUSTOMER INFORMATION

CUSTOMER MUST HAVE PART NUMBER WHEN ORDERING ITEMS THROUGH THE SERVICE DEPARTMENT.

IF FURTHER HELP IS NEEDED CONTACT A FAIR-PLAY SERVICE REP IN YOUR FAIR-PLAY DEALER ORGANIZATION OR PHONE THE FAIR-PLAY HELP DESK AT (800) 462-2716.

TO AID YOU IN YOUR DISCUSSIONS WITH SERVICE REPS, WE SUGGEST THAT YOU RECORD THE FOLLOWING:

MODEL NUMBER: _____

FAIR-PLAY SALES ORDER NUMBER: _____
(THIS NUMBER IS FOUND IN THE UPPER RIGHT HAND CORNER OF THE PACKING SLIP AND INVOICE.)

INSTALLATION DATE: _____

FAIR-PLAY SCOREBOARDS

HAZELWOOD, MISSOURI

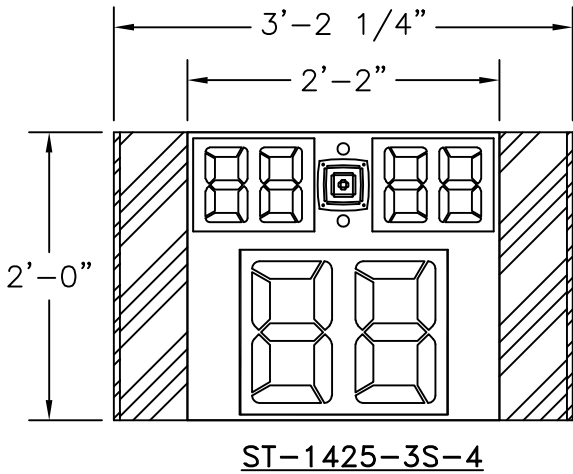
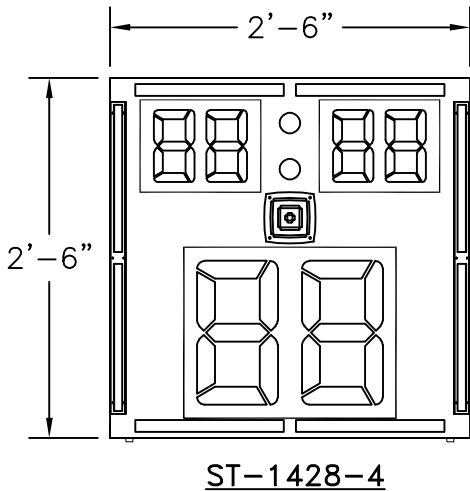
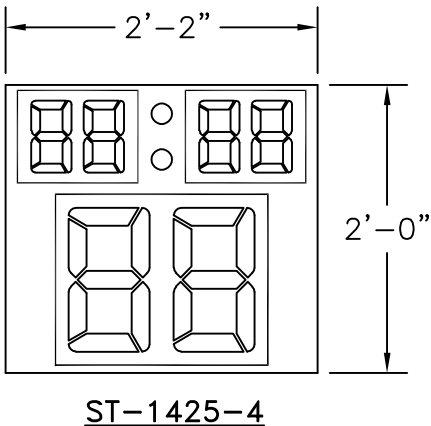
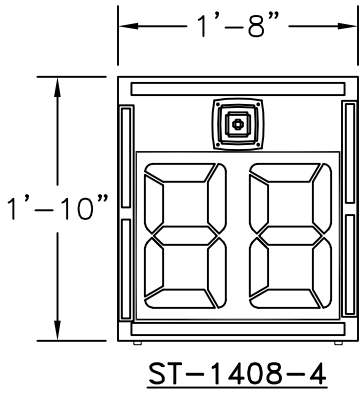
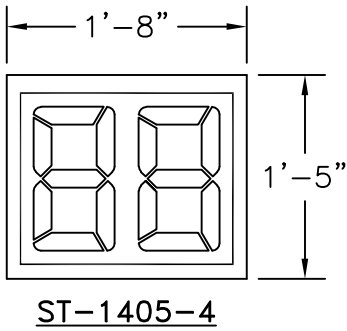
INSTRUCTION DRAWING LIST

LED BAR DIGIT SHOT TIMERS

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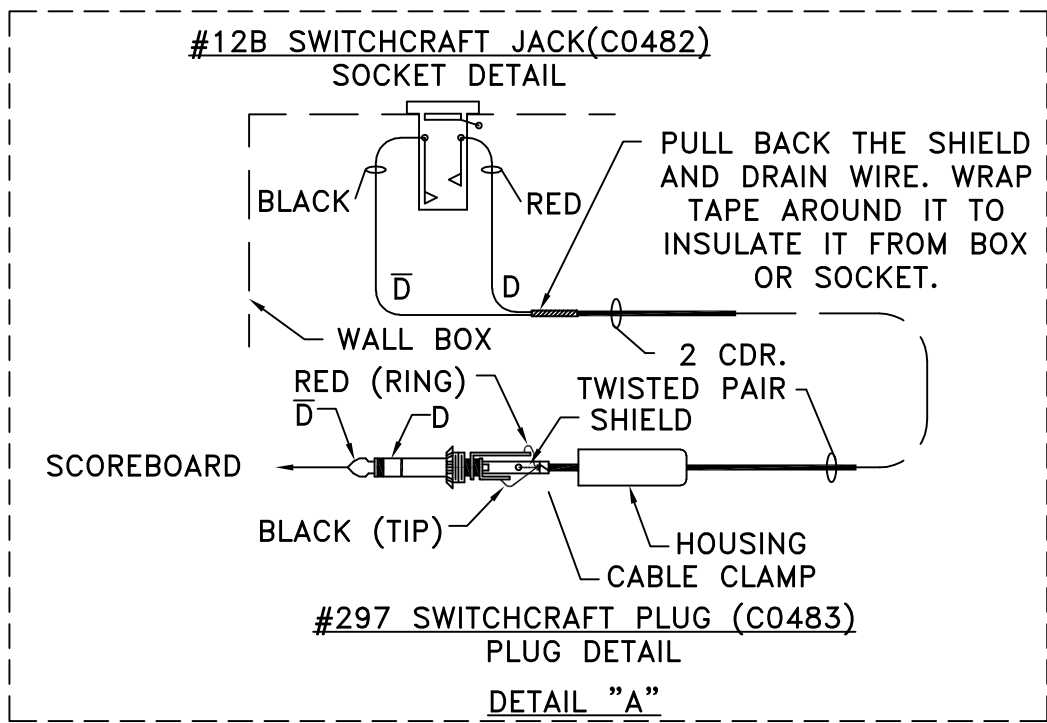
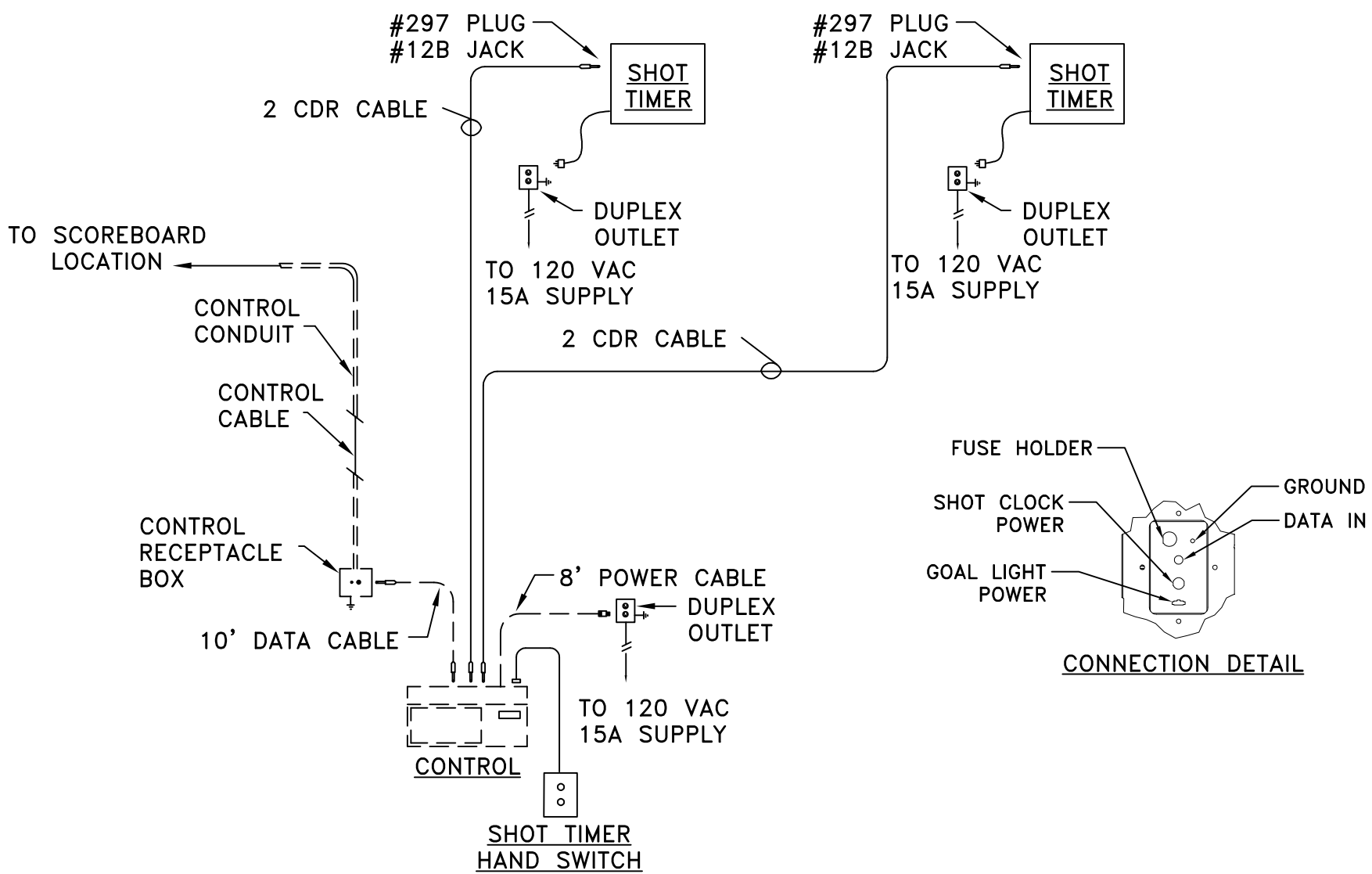
FACE VIEW INDOOR SHOT TIMERS



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	TITLE	DRAWN BY	B	MODEL	
		DATE			ST
		07-13-09			
FACE VIEW FOR SHOT TIMERS		SCALE	DWG. NO.		
6110 AVIATOR DRIVE HAZELWOOD, MO 63042		3/4"=1'-0"	01-0002-11		

B	REMOVED ST-1406 SERIES, ST-1426 SERIES	08-07-23	BEW
A	UPDATED TITLE BLOCK FORMAT, ST-1405-4, ST-1425-4	01-27-23	BEW
OR	ORIGINAL RELEASE	DATE	BY
REV.#	CHANGE	DATE	BY

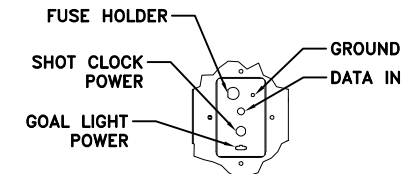
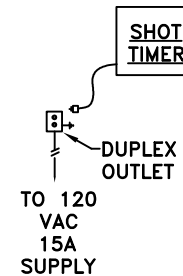
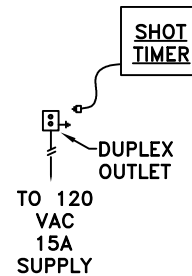


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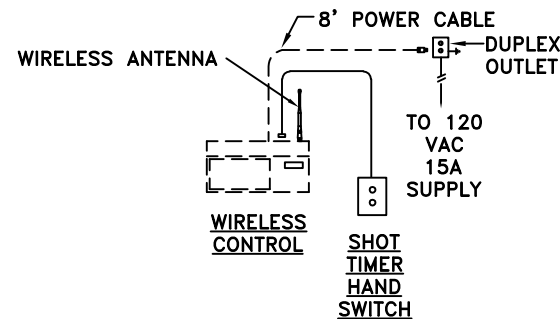
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	TITLE TYPICAL INDOOR SHOT TIMER INSTALLATION	DRAWN BY BEW	B MODEL
		DATE 05-17-02	
		6110 AVIATOR DRIVE HAZELWOOD, MO 63042	SCALE 3/8"=1'-0"

B	UPDATED TITLE BLOCK FORMAT, CONNECTIONS DETAIL	03-06-23	BEW
A	GENERAL CHANGES, PLACED ON TITLE BLOCK	02-13-08	BEW
OR	ORIGINAL RELEASE	05-17-02	BEW
REV.#	CHANGE	DATE	BY

TO WIRELESS SCOREBOARD
SCOREBOARD LOCATION ←



CONNECTION DETAIL



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C	REMOVED EXTERNAL ANTENNAS	06-22-23	BEW
B	UPDATED TITLE BLOCK FORMAT, CONNECTION DETAIL	03-06-23	BEW
A	GENERAL CHANGES, ADDED TITLE BLOCK	02-13-08	BEW
OR	ORIGINAL RELEASE	05-16-00	BEW
REV.#	CHANGE	DATE	BY

6110 AVIATOR DRIVE
HAZELWOOD, MO 63042

TITLE

TYPICAL WIRELESS
INDOOR SHOT TIMER
INSTALLATION

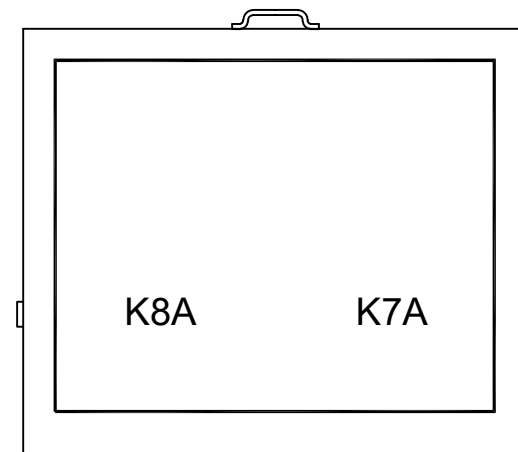
DRAWN BY
BEW
DATE
05-16-00
SCALE
1/4"=1'-0"

A

MODEL:

DWG. NO.

01-0002-10



DRIVER SIDE-A

K1A THRU K6A NOT USED

K7A = C1278

K8A= C1278

DIGIT COLOR

SHOT CLOCK = 12-99 RED

BOARD TYPE: 83
BOARD TYPE SWITCH ALL OFF
ADD. SWITCH 1,7,8 ON
PAGE 1 OF 3

PAGE 1: DIGIT WIRING
PAGE 2: WIRED SCHEMATIC
PAGE 3: WIRELESS SCHEMATIC

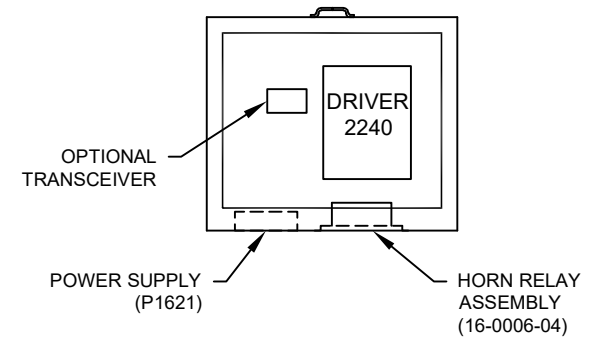
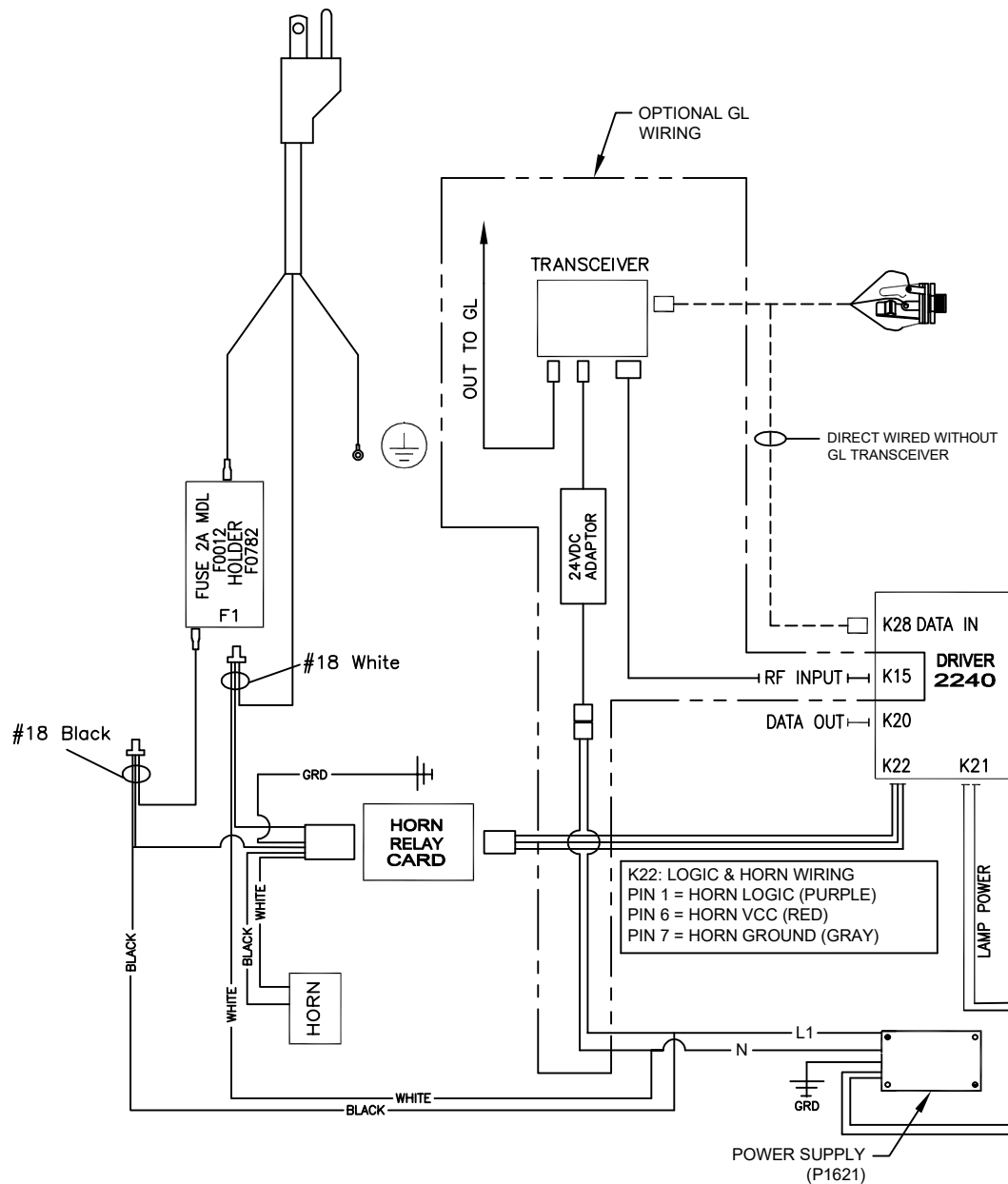
FAIR-PLAY

1700 DELAWARE AVENUE
DES MOINES, IOWA 50317

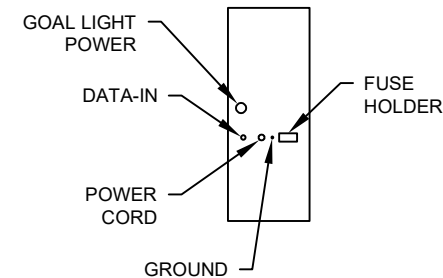
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TITLE	DIGIT WIRNG ST-1405-4 INDOOR SCBD	DRAWN BY JLB	B	MODEL ST-1405-4
		DATE 2/20/2020		
		SCALE 1-1/2"=1'		DWG. NO. 10-1405-50

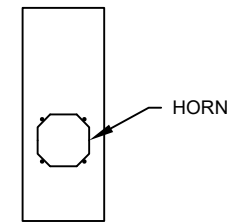
REV.#	CHANGE	DATE	BY
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FRONT VIEW



LEFT VIEW



RIGHT VIEW

BOARD TYPE: 83
BOARD TYPE SWITCH ALL OFF
ADD. SWITCH 1,7,8
PAGE 2 OR 3

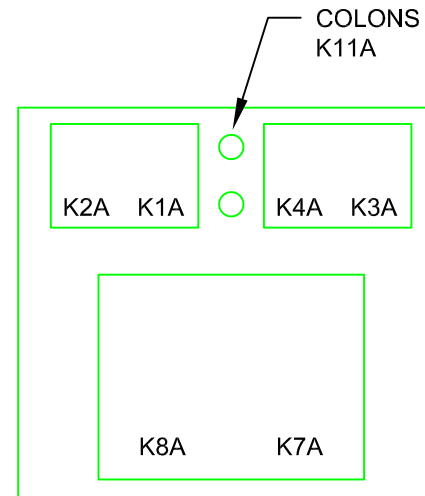
PAGE 1: DIGIT WIRING
PAGE 2: WIRED SCHEMATIC
PAGE 3: WIRELESS SCHEMATIC

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TITLE	WIRED SCHEMATIC & COMPONET LOC. ST-1405-4	DRAWN BY	B	MODEL
		JLB		ST-1405-4
		DATE		
		2/20/2020		
		SCALE		DWG. NO.
		NONE		10-1405-50



DRIVER SIDE-A

K1A = C1278
 K2A = C1278
 K3A = C1278
 K4A = C1278
 K5A = NOT USED
 K6A = NOT USED
 K7A = C1278
 K8A = C1278
 K9A = NOT USED
 K10A = NOT USED
 K11A = COLONS

DIGIT COLOR

CLOCK = 6-99 AMBER
 SHOT CLOCK = 12-99 RED

**ADD. SWITCH 1,7,8 ON
 PAGE 1 OF 3**

**PAGE 1 : DIGIT WIRING
 PAGE 2 : WIRED SCHEMATIC
 PAGE 3 : WIRELESS SCHEMATIC**

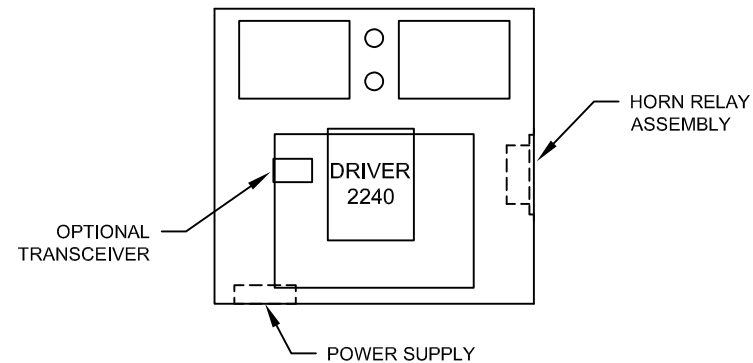
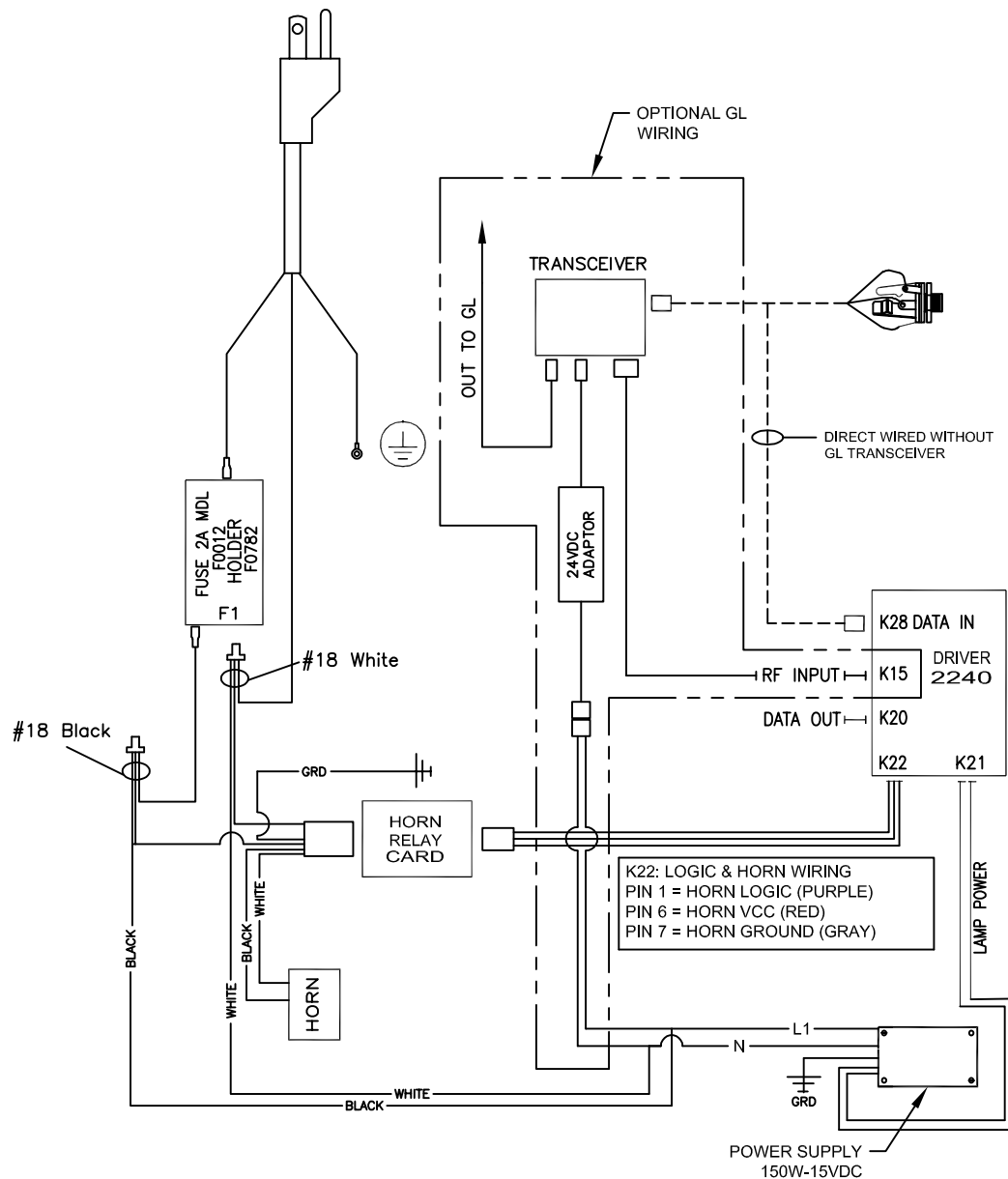
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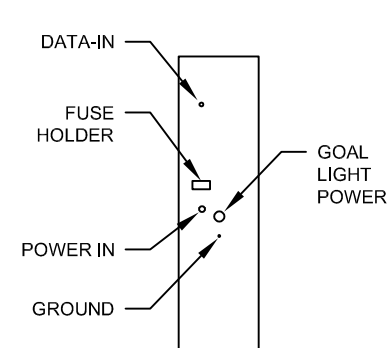
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TITLE	DIGIT WIRING ST-1425-4 INDOOR SCBD	DRAWN BY	B	MODEL
		JLB		ST-1425-4
		DATE		
		2/11/2020	DWG. NO.	
		SCALE		10-1425-50
		1"=1'-0"		

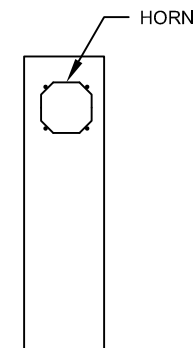
REV.#	CHANGE	DATE	BY
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FRONT VIEW



LEFT VIEW



RIGHT VIEW

PAGE 1 : DIGIT WIRING
PAGE 2 : WIRED SCHEMATIC
PAGE 3 : WIRELESS SCHEMATIC

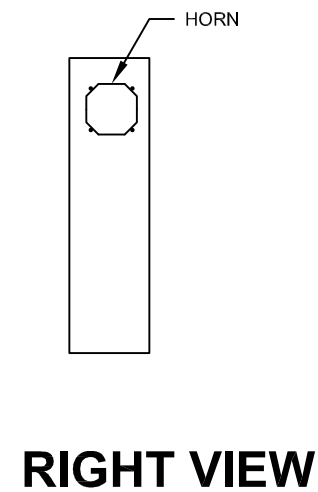
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TITLE WIRED SCHEMATIC & COMPONENT LOC. ST-1425-4	DRAWN BY JLB	B	MODEL ST-1425-4
	DATE 2/12/2020		DWG. NO. 10-1425-50
	SCALE NONE		

ADD. SWITCH 1,7,8 ON
PAGE 2 OF 3



**ADD. SWITCH 1,7,8 ON
PAGE 3 OF 3**

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TITLE	WIRELESS SCHEMATIC & COMPONENT LOC. ST-1425-4
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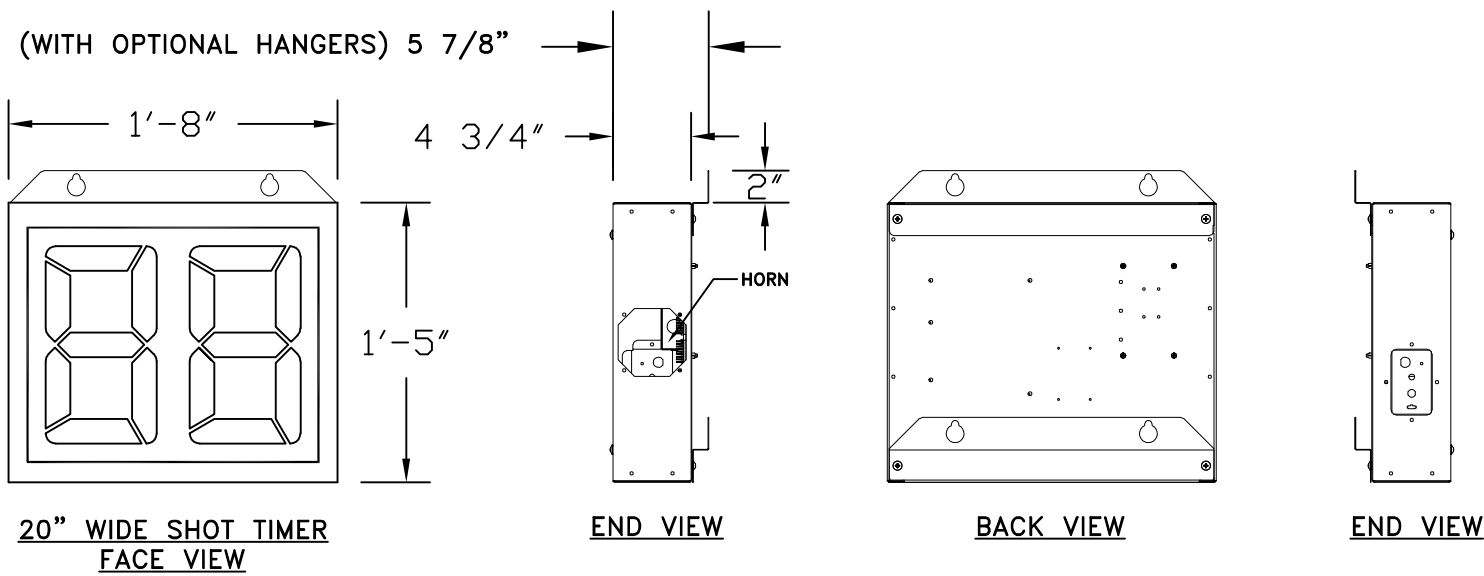
DRAWN BY	JLB
DATE	2/12/2020
SCALE	NONE

B	MODEL
	ST-1425-4
DWG. NO.	
10-1425-50	

OPTIONAL WALL MOUNTING FOR INDOOR SHOT TIMER

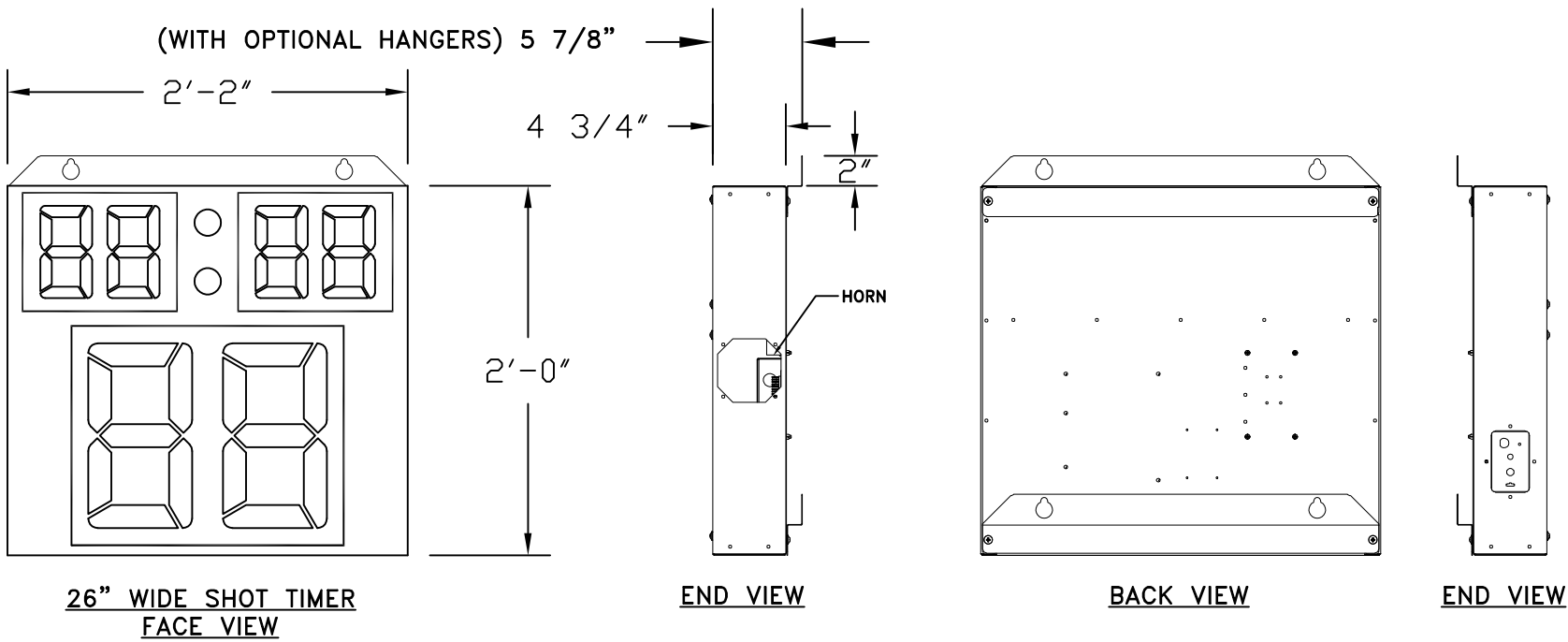
OPTIONAL HANGERS: 30-1405-04

BOLT ON WALL MOUNT HANGER BRACKETS
TO SHOT TIMERS USING HARDWARE PROVIDED



OPTIONAL HANGERS: 30-1425-02

BOLT ON WALL MOUNT HANGER BRACKETS
TO SHOT TIMERS USING HARDWARE PROVIDED



FAIR-PLAY ASSUMES NO RESPONSIBILITIES FOR INSTALLATIONS DONE BY OTHERS.

* REFERENCE 01-0500-01 FOR INSTALLATION NOTES.

OR		ORIGINAL RELEASE		03-03-23	BEW
REV.#		CHANGE		DATE	BY

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	TITLE	DRAWN BY	MODEL
	INSTALLATION FOR ST-1405-4, ST-1425-4 HANGER BRACKETS	BEW DATE 03-08-23 SCALE 1"=1'-0"	B DWG. NO. 01-0002-20

6110 AVIATOR DRIVE
HAZELWOOD, MO 63042

NOTE:
WHEN ORDERING PARTS, FAIR-PLAY PART
NUMBER IS REQUIRED.

LED BAR DIGIT HARNESSES

REPLACEMENT INDIVIDUAL PARTS LIST	
DESCRIPTION	F.P. PART#
LED DIGIT (LED2022) DRIVER ASSEMBLY	06-2040-01
LED AMBER	D0273
LED RED	D0272
LED GREEN	D0274
CONNECTOR AMP 640601-2, 2-PIN	C0913
CONNECTOR AMP 640601-3, 3-PIN	C1020
CONNECTOR AMP 103957-1	C1249
CONNECTOR AMP 103957-2	C1248
CONNECTOR AMP 640601-8	C0966
ALT. CONNECTOR AMP 640428-8	
CONNECTOR AMP 640431-9	C1247
STRAIN RELIEF 643067-9	C1270
CONNECTOR 104257-4	C1521
CONNECTOR AMP 640620-8	C1254
CONNECTOR AMP 641522-2	
CONNECTOR AMP 641522-3	
PIN AMP 770904-3, 3-PIN	C1253
POWER SUPPLY, 15VAC@12.5A	P1624

LED BAR DIGIT FIG. 1 HARNESS

CONNECTOR = AMP 640601-3 (C1020) PIN 1 = GRAY, SEG. PIN 2 = RED, COMMON PIN 3 = N.C. DOCUMENT REF. 16-0013-01	
LENGTH	F.P. PART#
16"	C1416
96"	C1403

DATA CONVERTER INTERFACE HARNESS

COMPLETE ASSEMBLY = C1396 CONNECTOR = AMP 104257-4 DOCUMENT REF. 16-0012-01		
PIN#	COLOR	LENGTH
1	RED	6"
2	GREEN	6"
3	BLUE	6"
4	WHITE	6"
5	BLACK	6"

LED COLON HARNESS

CONNECTOR = AMP 1-640601-3 (C1020) PIN 1 = BLUE (#22 UL1007) TOP SPOT PIN 2 = RED (#22 UL007) COMMON PIN 3 = BROWN (#22 UL1007) BOTTOM SPOT DOCUMENT REF. 16-0014-01			
COMPLETE ASSEMBLY	PIN#	COLOR	LENGTH
C1404	1	BLUE	84"
	2	RED	84"
	3	BROWN	72"
C1512	1	BLUE	144"
	2	RED	144"
	3	BROWN	132"

DIGIT TO DRIVER HARNESS

CONNECTOR = AMP 640431-9 (C1247) STRAIN RELIEF = 643067-9 (C1270) DOCUMENT REF. 16-0001-01				COMPLETE HARNESS	
PIN#	COLOR	BAR SEG.	LED SEG.	LENGTH	F.P. PART#
1	BROWN	A	A	24"	C1278
2	RED	B	B	36"	C1279
3	ORANGE	C	C	48"	C1280
4	YELLOW	D	D	60"	C1281
5	GREY	E	VLED	72"	C1282
6	BLUE	F	E	84"	C1283
7	PURPLE	G	F	96"	C1284
8	WHITE	FIG. 1	G	108"	C1288
9	BLACK	COMMON	H	120"	C1289
				144"	C1290
				204"	C1456
				216"	C1490
				228"	C1491
				240"	C1505
				300"	C1506

K10 ADAPTOR HARNESS

COMPLETE ASSEMBLY = C1417 CONNECTOR = AMP 640431-9 (C1247) CONNECTOR = AMP 641522-2 CONNECTOR = AMP 641522-3 STRAIN RELIEF = 643067-9 (C1270) DOCUMENT REF. 16-0017-01					
CONNECTOR	PIN#	COLOR	F.P.#	F.P.#	LENGTH
AMP 640431-9	5	RED	W0015	W0015	8"
	8	WHITE	W0016	W0016	8"
	9	BLACK	W0008	W0008	4"
AMP 641522-2	1	WHITE	W0016		
	2	BLACK	W0008		
AMP 641522-3	1	BLACK	W0008		
	2	RED	W0015		
	3	N.C.			

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	TITLE LED BAR DIGIT HARNESSES	DRAWN BY BEW	B	MODEL LED BAR
		DATE 07-24-03		DWG. NO. 98-0021-03
6110 AVIATOR DRIVE HAZELWOOD, MO 63042		SCALE FULL		

B	GENERAL PART UPDATES	06-22-23	BEW
A	UPDATED TITLE BLOCK FORMAT	01-27-23	BEW
OR	ORIGINAL RELEASE	07-24-03	BEW
REV.#	CHANGE	DATE	BY

LED BAR DIGIT INDOOR SHOT TIMER DATA CHART

	WIRELESS OPTIONAL	SIZE		EST. WT. (LBS.)	POWER	CONTROL
		LENGTH	HEIGHT		TOTAL WATTS	
ST-1405-4	X	20"	17"	25	15	1, 2, 3, 4
ST-1408-4	X	20"	22"	25	19	1, 2, 3, 4
ST-1425-4	X	26"	24"	32	28	1, 2, 4
ST-1425-4-2S	X	26"	24"	64	56	1, 2, 4
ST-1425-3S-4	X	3'-2 1/4"	24"	300	84	1, 2, 4
ST-1428-4	X	30"	30"	30	98	1, 2, 4

CONTROLS:

1=MP-70
 2=HC-70 (OPTIONAL)
 3=ST-70
 4=HS-70
 5=MP-80

MODEL #:

-4 LED BAR DIGIT

* POWER IS 120 VAC, 60 Hz, 2 WIRE.

* OPTIONAL HANGER BRACKETS FOR ST-1405 OR ST-1425 AVAILABLE FOR WALL MOUNTING.

* CONTROL CABLE TYPICAL (WIRED)=C0550, 1-PAIR, 22 GAUGE ((1) PER SHOT CLOCK).

NOTE:

ST-1405 & ST-1425 ARE SINGLE DISPLAYS ONLY.

ST-1425-2S - SINGLE 2-SIDED DISPLAY TWO DIGIT SHOT CLOCK/FOUR DIGIT GAME CLOCK

ST-1425-3S - SINGLE 3-SIDED DISPLAY TWO DIGIT SHOT CLOCK/FOUR DIGIT GAME CLOCK

CAUTION:**VENTILATION**

INSTALL PRODUCT SO THAT AIR FLOW IS NOT RESTRICTED. CUSTOMER'S STRUCTURE MUST ALLOW FOR THE FREE FLOW OF OUTSIDE AMBIENT AIR TO THE PRODUCT, WITHOUT RECIRCULATION OF AIR. WARRANTY WILL BE VOID IF COMPONENTS FAIL DUE TO AIR FLOW RESTRICTIONS.