

INSTALLATION & SERVICE MANUAL
FOR
CHRONDEK, INC.
AUTO RACING DISPLAY
MODEL CH-936H

CHRONDEK, INC.
P. O. BOX 586
BROOKINGS, SD 57006
(605) 692-5866 or
(800) 854-6556

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1. INTRODUCTION

The illustration on the next page shows a Chrondek CH-936H display. The CH-936H display along with the use of the Chrondek CHIS-300 timing console will display the first three cars positions and lap number on the display.

This manual covers installation of the CH-936H display and provides information for servicing the digits and wiring. Setup of other control equipment or operation of the CHIS-300 timing console are not covered in this manual.

IMPORTANT SAFEGUARDS

- Read and understand installation instructions before installing.
- Do not drop the control console or allow it to get wet.
- Do not disassemble the control console or the electronic controls of the display. If you do, the warranty will be void.
- DISCONNECT POWER WHEN THE DISPLAY IS NOT IN USE, OR WHEN SERVICING. PROLONGED POWER-ON MAY SHORTEN THE LIFE OF ELECTRONIC COMPONENTS.

2. INSTALLATION

2.1 GENERAL SYSTEM

See the illustration on page 3 for general system layout.

The general procedure for installing the CH-936H display is as follows.

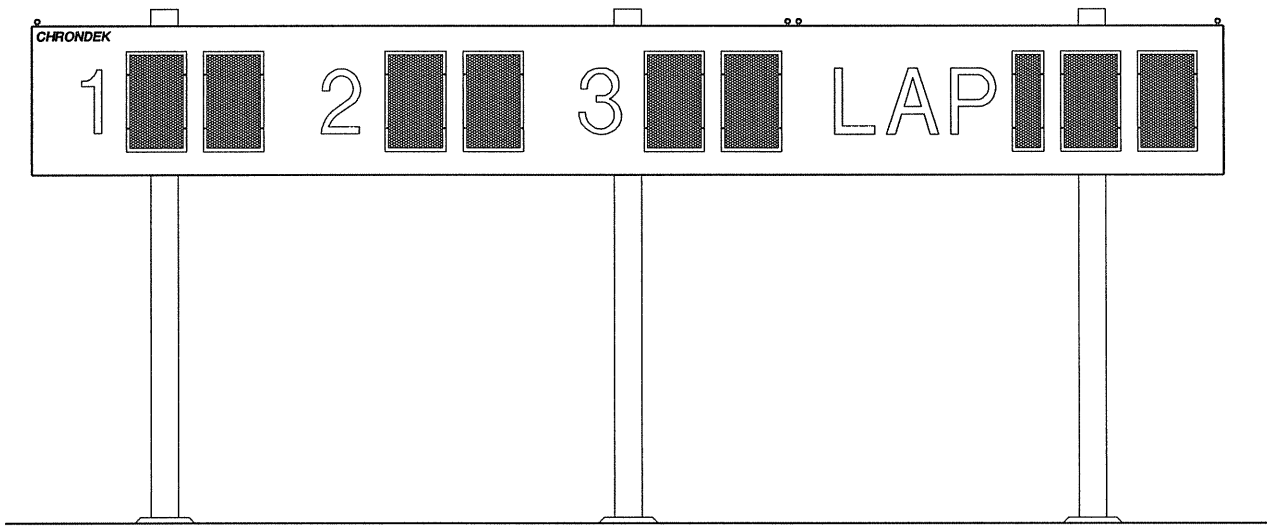
Select beam and footing recommendations from the table on page 4.

Dig the footing holes and install beams and footings.

Route power and signal cables to the display and control locations.

Mount the displays to the beams as described on pages 5 through 8.

Route power and signal wires into the displays as described on pages 9 through 11.



OVERALL DIMENSIONS: 54" H x 432" W x 6" D

WEIGHT: 650 LBS

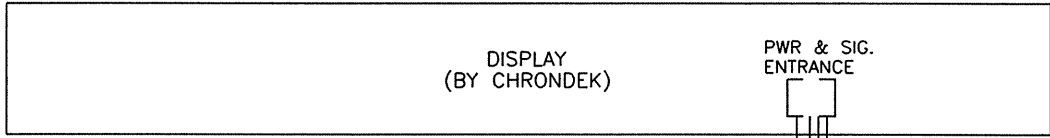
POWER REQUIREMENTS: 120/240 VAC, 30 AMPS PER LINE

MAXIMUM POWER DEMAND: 4175 WATTS WITH 25W LAMPS.
5010 WATTS WITH 30W LAMPS.

DIGITS ARE 36" HIGH, 4 x 7 MATRICES, WITH 25W FROSTED MED. BASE OR 30W FROSTED, 30R20 REFLECTOR LAMPS.

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: CHRONDEK DISPLAYS	
TITLE: DISPLAY, CH-936H	
DES. BY:	DRAWN BY: C FICKBOHM DATE: 30 MAR 92
REVISION	APPR. BY:
	SCALE: 1=60
1081-R08A-51089	

REV.	DATE	DESCRIPTION	BY	APPR.



LOCKABLE DISCONNECT SWITCH, (BY OTHERS)

120/230 VAC, 30 AMPS PER LINE

EARTH GND

DISPLAY LOCATION

CONTROL SIGNAL CABLE,
1 PAIR, 24 AWG OR 22 AWG.
24 AWG UP TO 600 FT.
22 AWG UP TO 1000 FT.
IN CONDUIT BY OTHERS OR
DIRECT BURIAL.



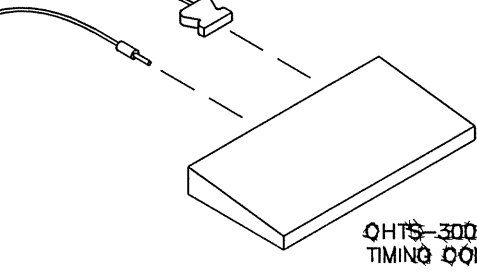
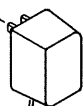
SIGNAL J-BOX

SIGNAL CABLE

CONTROL LOCATION



120 VAC



QHTS-300
TIMING CONSOLE

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: CHRONDEK DISPLAYS			
TITLE: SYSTEM LAYOUT, CH-836H			
DES. BY: CF		DRAWN BY: CF	DATE: 23 APR 91
REVISION	APPR. BY: AVB	1081-R04A-47101	
	SCALE: 1 = 1		

REV.	DATE	DESCRIPTION	BY	APPR.

2.2 BEAM AND FOOTING SELECTION

The table below contains recommendations for W-shape beams and footings to support your display as shown on page 6. The first column is wind velocity in miles per hour. The distance in the second column is from the ground to the bottom of the display. Your choice from these columns depends upon your display location.

The beams listed below are beams which provide maximum wind load strength for the weight and cost of the beams.

WIND SPEED	HEIGHT (FT)	BEAM SECTION	FOOTING DEPTH X DIA.
70 MPH	10	W 8 X 15	5 FT X 3 FT
	15	W 6 X 20	6 FT X 3 FT
80 MPH	10	W 8 X 15	5 3/4 FT X 3 FT
	15	W 8 X 20	7 FT X 3 FT
90 MPH	10	W 10 X 19	6 1/2 FT X 3 FT
	15	W 10 X 25	7 3/4 FT X 3 FT

The calculations for footing diameters and depths are based on the assumption that footings are in undisturbed soils, NOT FILL SOILS. Lateral bearing capacity of 300 psf per foot of depth in natural grade was used to derive these figures.

The footings recommendations are based on the allowable soil bearing pressure of 3000 psf vertically and 300 psf/ft of depth horizontally. However, THESE RECOMMENDATIONS ARE SUGGESTIONS ONLY and soil bearing pressure at the site must be determined by a sample test prior to specifying actual footings. You must be sure that your installation complies with local codes and is suitable for your particular soil and wind conditions. CHRONDEK ASSUMES NO RESPONSIBILITY FOR STRUCTURES INSTALLED BY OTHERS. Chrondek recommends that W-sections of grade 36 steel be used for beams, and that 28-day (strength 3000 psi) concrete be used for footings.

A NOTE ABOUT BEAM NOMENCLATURE: For a typical beam, W6 x 25 for example, "W" stands for "Wide-Flange Beam". The first number (6) is the approximate front to rear dimension of the beam in inches. The second number (25) is the weight per foot in pounds. This numbering is a standard in the steel industry. Widths are from 6.25 to 10.25 inches in the chart on page 4.

2.3 DISPLAY MOUNTING

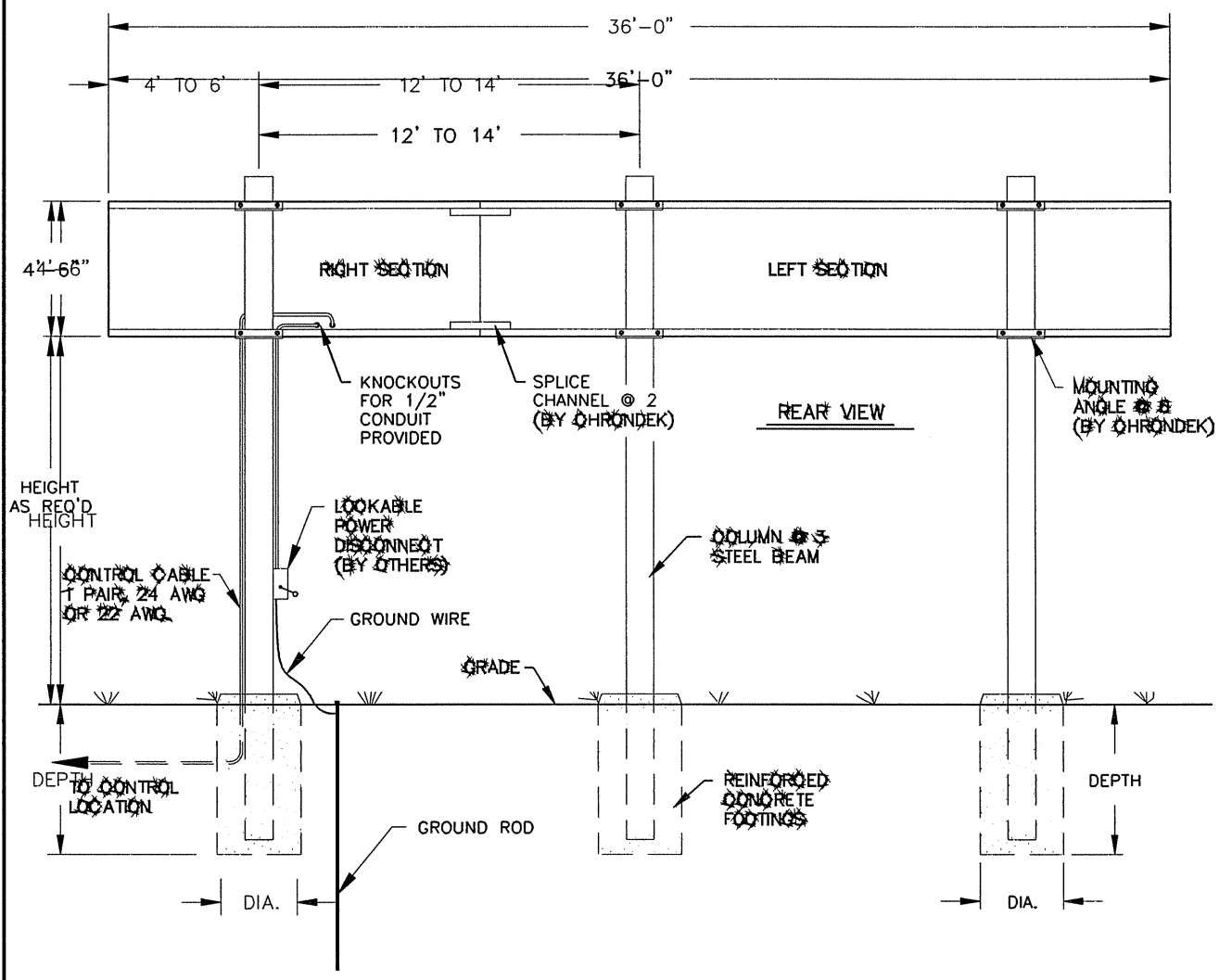
The illustration on Page 7 shows the typical mounting for your display.

NOTE: The bolts that secure the display to the beams do not go through the beams, but run along both sides of the beam to clamp the display to the beams.

A mounting kit consisting of (6) mounting angles, (2) splice channels and 1/2" hardware are provided to mount your display.

Position the left display section against the mounting beams and secure the bottom of the display to both beams as shown on Page 7. Next, secure the top of the display section to the beams. Once mounting angles are attached, the display section may be slid up or down to the desired height. Once positioned as desired, tighten all nuts securely. Next position the right display section next to the left display section and secure to the beam the same way as the left display section was mounted.

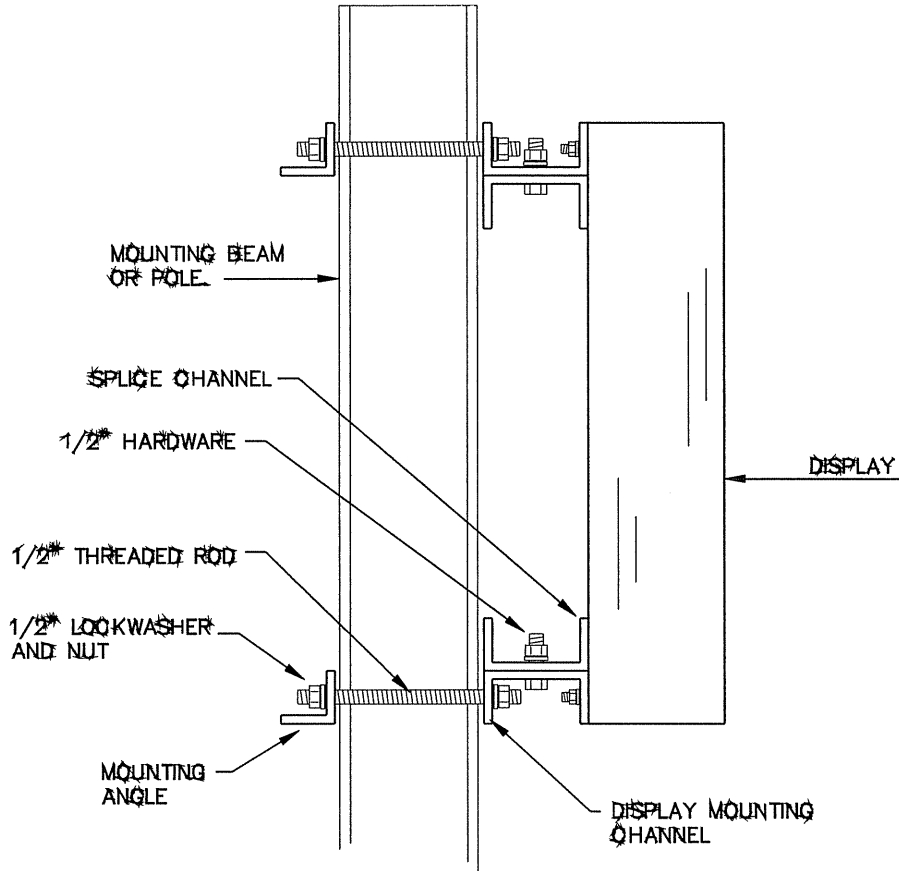
Attach the (2) splice channels at the top and bottom of the display, where the two display sections meet, to secure the two sections together as shown on Page 8.



SCOREBOARD MUST BE CONNECTED TO A GROUND ROD AT SCOREBOARD LOCATION.

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: CHRONDEK DISPLAYS	
TITLE: INSTALLATION SPECIFICATIONS, CH-836H	
DES. BY: CF	DRAWN BY: CF
DATE: 24 APR 91	
REVISION	APPR. BY: AVB
	SCALE: 1=65
1081-R10A-47109	

REV.	DATE	DESCRIPTION	BY	APPR.

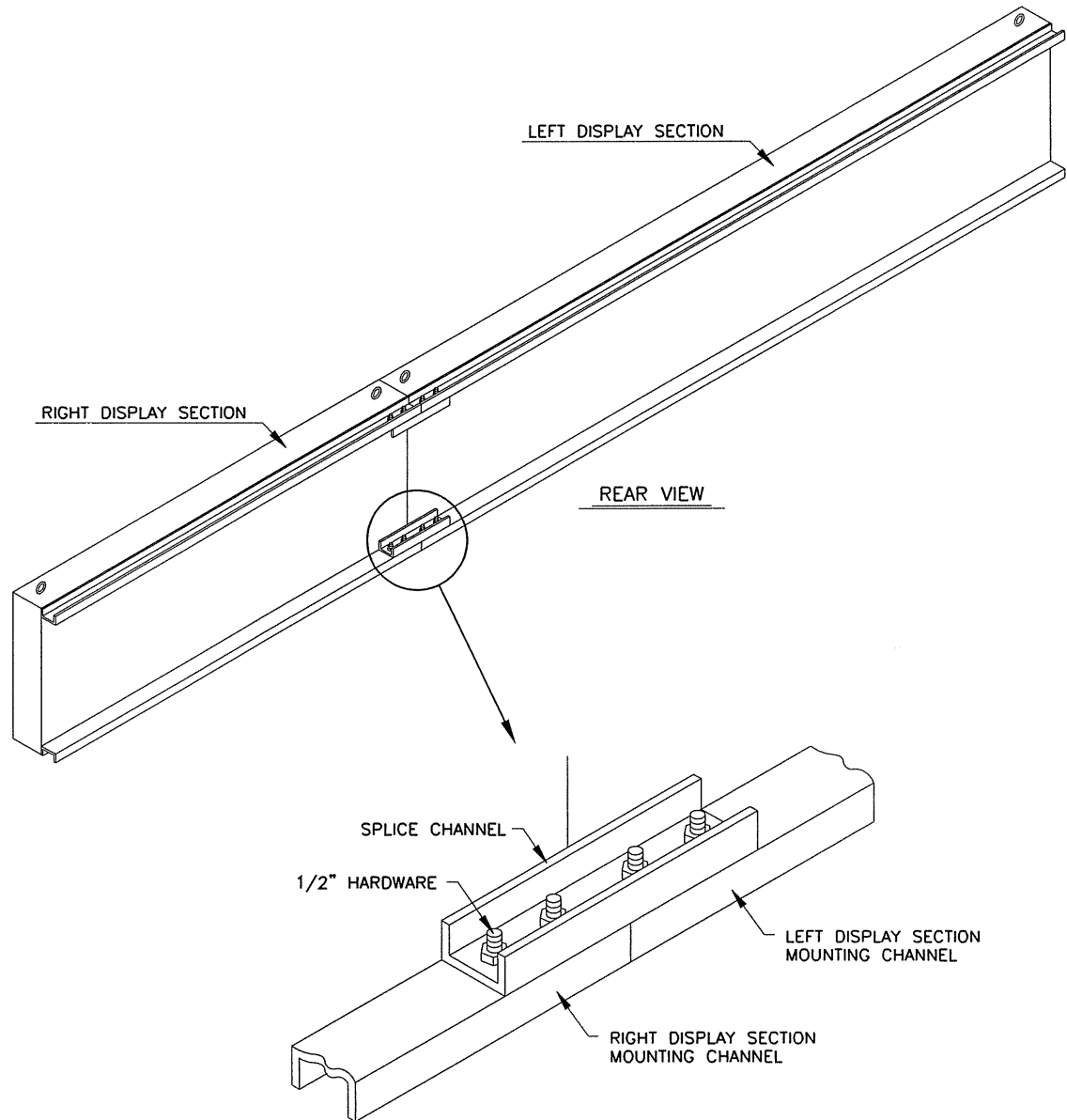


SIDE VIEW

MOUNTING INSTRUCTIONS

- 1.) LOCATE WHERE THE CENTER OF THE BEAMS WILL BE ON THE BACK OF EACH DISPLAY SECTION.
- 2.) DRILL $9/16$ " HOLES IN THE MTO CHANNELS ON THE BACK OF EACH DISPLAY SECTION AT A DISTANCE OF ± 3.50 " TO 4.50 " FROM CENTER OF EACH BEAM.
- 3.) LIFT THE LEFT DISPLAY SECTION IN PLACE FIRST.
- 4.) ATTACH MOUNTING ANGLES AND $1/2$ " THREADED RODS AS SHOWN ABOVE.
- 5.) DISPLAY CAN BE SLID UP OR DOWN TO THE HEIGHT REQUIRED.
- 6.) TIGHTEN ALL MOUNTING HARDWARE SECURELY.
- 7.) LIFT THE RIGHT DISPLAY SECTION IN PLACE NEXT TO THE LEFT DISPLAY SECTION AND ATTACH MOUNTING ANGLES AND $1/2$ " THREADED RODS AS SHOWN ABOVE.
- 8.) ATTACH (2) SPLICE CHANNELS AT TOP AND BOTTOM OF DISPLAY TO MOUNTING CHANNELS ON BACK OF DISPLAY.
- 9.) TIGHTEN ALL MOUNTING HARDWARE SECURELY.

DAKTRONICS, INC. BROOKINGS, SD 57006				
2		27 MAY 92	REMOVED NOTE FOR CH-1336H	C FICK
1		24 JAN 92	ADDED NOTE FOR MODEL CH-1336H	CFICK
REV.	DATE	DESCRIPTION		BY APPR.
PROJ: CHRONDEK DISPLAYS				
TITLE: DISPLAY MOUNTING, CH-836H				
DES. BY: CF			DRAWN BY: CF	
DATE: 24 APR 91				
REVISION		APPR. BY: AVB		1081-R08A-47108
		SCALE: 1=1		



DAKTRONICS, INC. BROOKINGS, SD 57006				
PROJ: CHRONDEK DISPLAYS				
TITLE: DISPLAY SPLICE MOUNTING DETAIL, CH-836H				
DES. BY: CF		DRAWN BY: CF		DATE: 24 APR 91
REVISION	APPR. BY: AVB	1081-R10A-47102		
	SCALE: 1=60			
2	27 MAY 92	REMOVED NOTE FOR MODEL CH-1336H.	C FICK	
1	24 JAN 92	ADDED NOTE FOR MODEL CH-1336H.	CFICK	
REV.	DATE	DESCRIPTION	BY	APPR.

2.4 ELECTRICAL INSTALLATION

2.4.1 Control Signal Cable

For the display, two conductors of 24 AWG, for distances up to 600 feet or 22 AWG, for distances up to 1000 feet are required. Daktronics has the following cables available: Daktronics part no. W-1105, this is a 6 conductor, 24 AWG direct burial cable. Also Daktronics part no. W-1107, this is a two conductor, 22 AWG cable that must be pulled through conduit before it is buried.

At the control location, mount the signal J-box to a convenient location. Route the cables and connect to the wires leading from the connector in the J-box cover, according to the table below and the illustration on Page 13.

At the display, open the hinged panel covering the entrance enclosure as shown on Page 10. Remove the cover from the entrance enclosure. See Page 11 for an illustration of the components inside the entrance enclosure. Connect the signal wires to TB31 as indicated in the table below.

Signal Connections

Control End			Display End
J-box Terminal no.	Wire Color	Output No.	TB31 Terminal no.
14	Red/Wht	1*	1 (+)
15	Grn/Wht		2 (-)

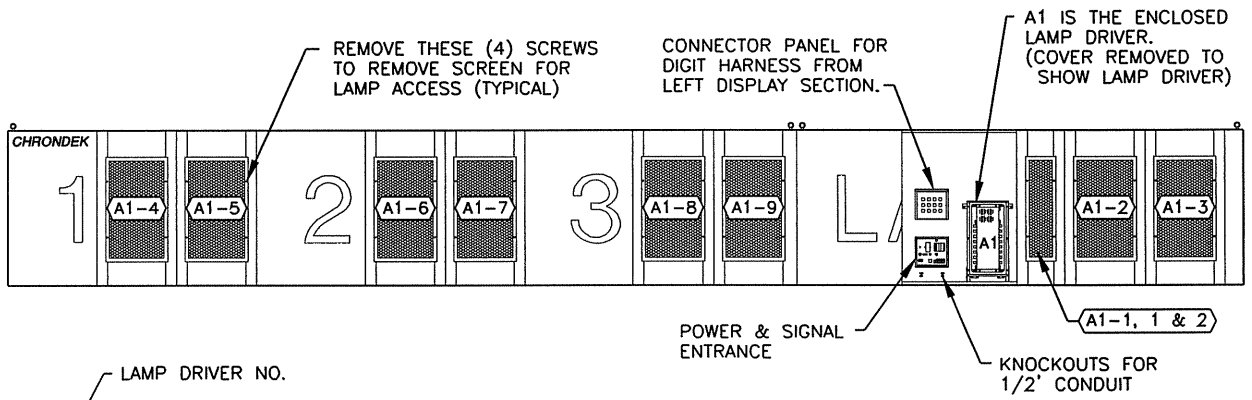
*Auxiliary display(s) require(s) a different output no.(s). Consult your CHTS-300 console manual.

2.4.2 Power Wiring

The CH-936H display requires a 120/240 VAC, 30 amp circuit per line. When equipped with 25W lamps, the maximum current draw is 33.33 amps. When equipped with 30W, 30R20 reflector lamps, the maximum current draw is 40 amps.

Route power wires into the display and connect to TB41 in the entrance enclosure, as shown on Page 11.

Connect the ground wire to E41 and to a ground rod near the display, according to your local codes.

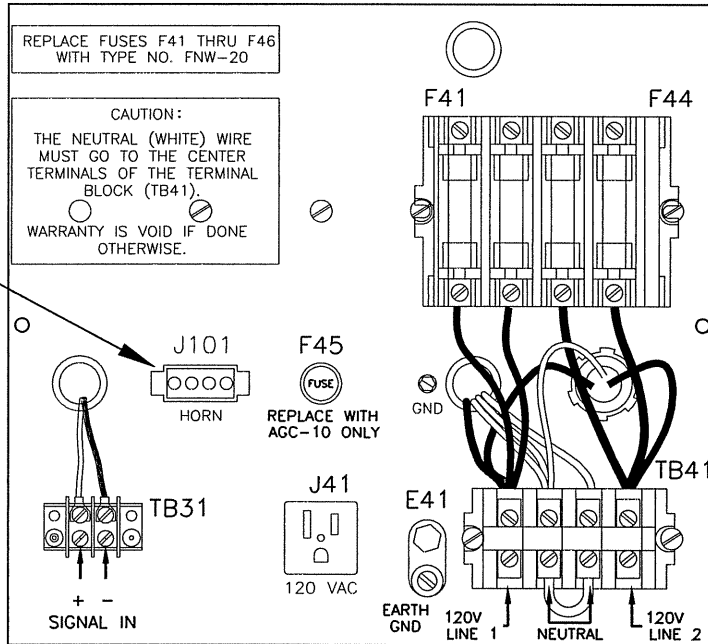


LAMP DRIVER NO.
 A1-2 = LAMP DRIVER NO. AND CONNECTOR WIRED TO THAT DIGIT.
 DRIVER OUTPUT CONNECTOR NO.

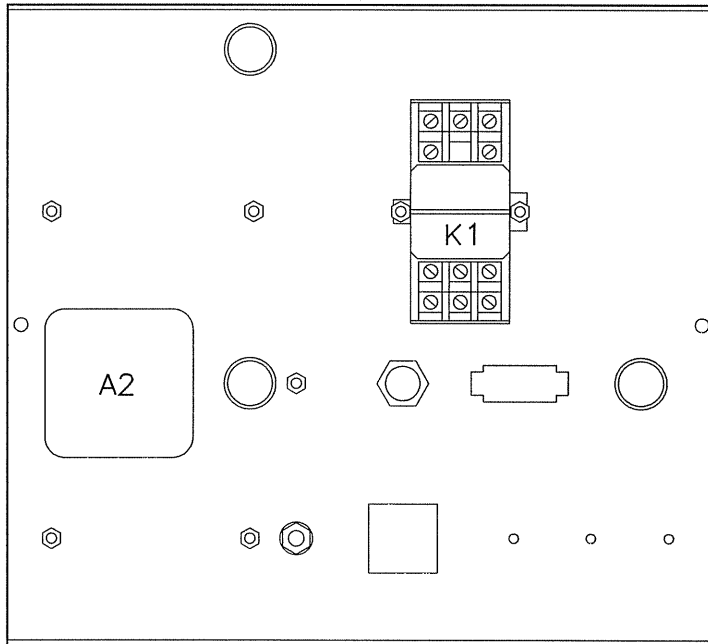
NOTE THE (2) HINGED ACCESS PANELS REMOVED TO SHOW LAMP DRIVER, POWER & SIGNAL ENTRANCE AND DIGIT HARNESS CONNECTOR PANEL LOCATIONS.

DAKTRONICS, INC. BROOKINGS, SD 57006	
PROJ: CHRONDEK DISPLAYS	
TITLE: COMPONENT LOCATIONS, CH-936H	
DES. BY:	DRAWN BY: C FICKBOHM DATE: 30 MAR 92
REVISION	APPR. BY:
	SCALE: 1=60
1081-R04A-51090	

REV.	DATE	DESCRIPTION	BY	APPR.



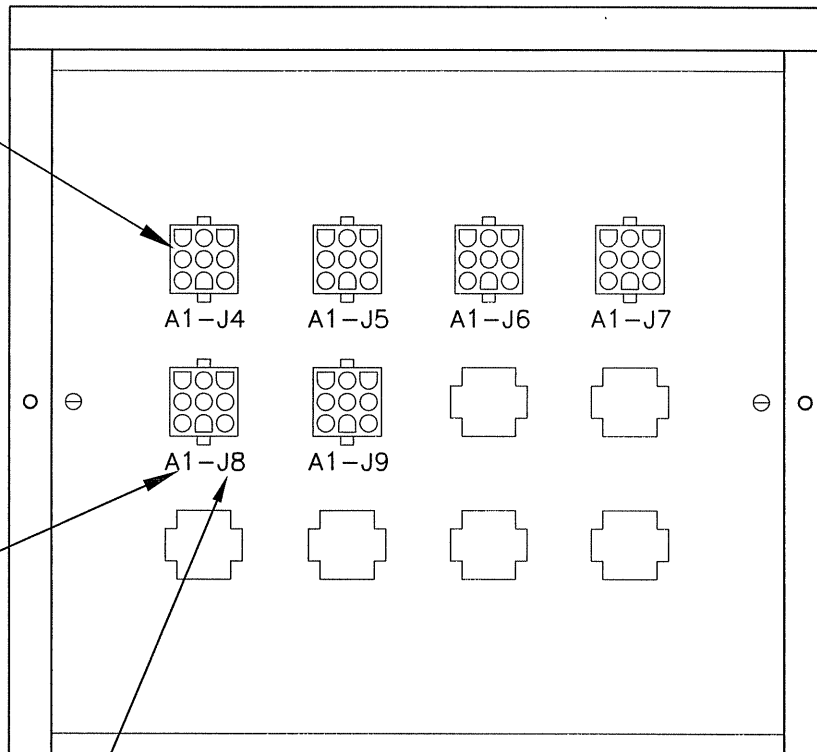
FRONT VIEW



REAR VIEW

3	4 MAR 93	REMOVED LIST OF MODEL NO.'S	C FICK		DAKTRONICS, INC. BROOKINGS, SD 57006	
2	27 MAY 92	ADDED CH-1036H TO LIST OF MODEL NO.'S.	C FICK		PROJ: CHRONDEK DISPLAYS	
1	25 APR 91	CHANGED DWG TITLE AND ADDED MODEL NO.'S.	CF		TITLE: PWR/SIG ENTRANCE, 1 DRIVER DISPLAY	
REV.	DATE	DESCRIPTION	BY	APPR.	DES. BY:	DATE: 27 MAR 91
					DRAWN BY: CF	
					REVISION	APPR. BY:
						SCALE: 1=3
						1081-R04A-46755

9-PIN JACK
(TYP)



DRIVER NO.

DRIVER PLUG/DIGIT NO.
THAT PLUGS INTO THIS
9-PIN JACK.

FRONT VIEW

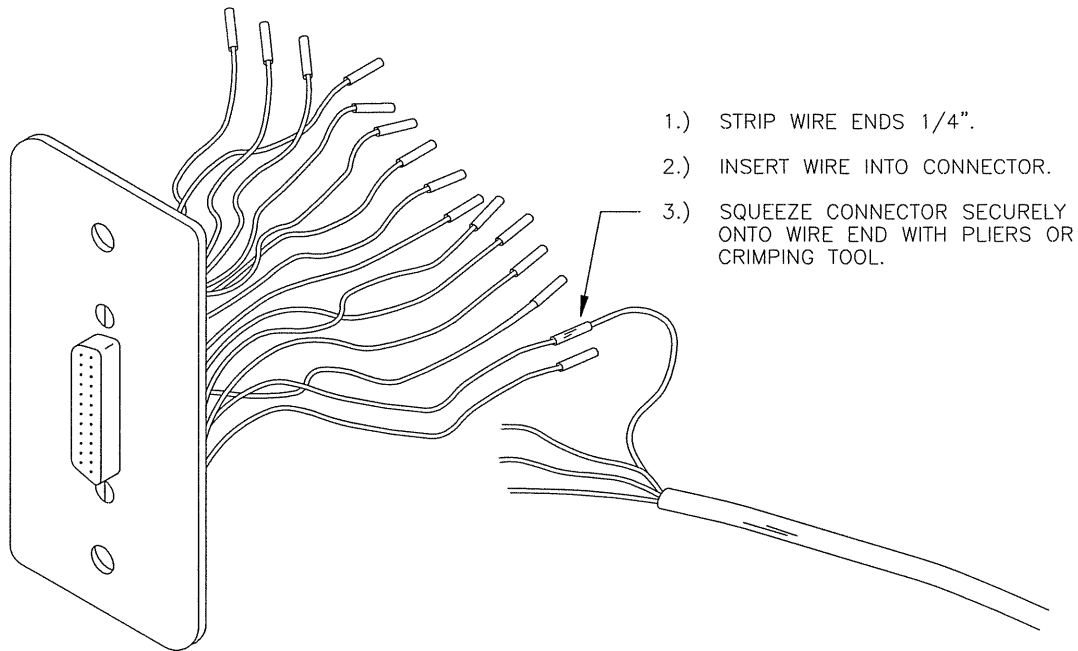
TYPICAL FOR MODELS:

CH-1036H
CH-1336H

DAKTRONICS, INC. BROOKINGS, SD 57006

2	18 MAY 93	ADDED MODEL CH-1036H	C FICK	
1	20 JAN 91	ADDED CH-1336H NOTE	CFICK	
REV.	DATE	DESCRIPTION	BY	APPR.

PROJ: CHRONDEK DISPLAYS		DATE: 25 APR 91	
TITLE: CONNECTOR PLATE, CH-836H		DRAWN BY: CF	
DES. BY: CF		APPR. BY: AVB	
REVISION	SCALE: 1=3	1081-R04A-47128	



- 1.) STRIP WIRE ENDS 1/4".
- 2.) INSERT WIRE INTO CONNECTOR.
- 3.) SQUEEZE CONNECTOR SECURELY ONTO WIRE END WITH PLIERS OR CRIMPING TOOL.

PIN NO.	WIRE COLOR	FUNCTION	
1	BLACK	PHOTO 1-N	PHOTOCELL POWER INPUTS
2	WHITE	PWR 1-P	
3	RED	GND 1-N	
4	GREEN	PHOTO 2-N	
5	ORANGE	PWR 2-P	
6	BLUE	GND 2-N	
7	WHITE/BLACK	PHOTO 3-N	
8	RED/BLACK	PWR 3-P	
9	GREEN/BLACK	GND 3-N	
10	ORANGE/BLACK	PHOTO 4-N	
11	BLUE/BLACK	PWR 4-P	
12	BLACK/WHITE	GND 4-N	
14	RED/WHITE	1 SIG-P	SCOREBOARD SIGNAL OUTPUTS
15	GREEN/WHITE	1 SIG-N	
16	BLUE/WHITE	2 SIG-P	
17	BLACK/RED	2 SIG-N	
18	WHITE/RED	3 SIG-P	
19	ORANGE/RED	3 SIG-N	
22	BLUE/RED	4 SIG-P	
23	RED/GREEN	4 SIG-N	
13	ORANGE/GREEN	NOT USED	THESE PINS TYPICALLY NOT USED BY CHTS TIMER
20	BLK/WHT/RED	NOT USED	
21	WHT/BLK/RED	NOT USED	
24	RED/BLK/WHT	12 VAC	
25	GRN/BLK/WHT	12 VAC	

REV	DATE	DESCRIPTION	BY	APPR.
2	10MAR97	ADDED WIRES TO PINS 13,20,21,24,25	EB	
1	4 JUN 92	CHANGED "SIGNAL INPUTS" TO "SIGNAL OUTPUTS"	C FICK	

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: CHRONDEK			
TITLE: COLOR CODE, 25-PIN J-BOX			
DES. BY: CF		DRAWN BY: CF	
DATE: 1 MAY 91			
REVISION	APPR. BY: AVB	1067-R10A-47207	
	SCALE: 1=2		

3. SERVICE

DISCONNECT POWER FROM DISPLAY BEFORE SERVICING.

3.1 LAMP REPLACEMENT

The primary service required by the CH-936H display is to replace burn-out lamps. See Page 15 for an illustration of lamp changing. Replacement lamps are 120V, 25W frosted, medium base, available at your local store or directly from Chrondek, part number DS-1029. Some displays may be equipped with 120V, 30W reflector type 30R20 lamps, Chrondek part number DS-1126.

Do not use lamps larger than those originally installed in the display. Using higher power lamps will likely cause fuse failures in the display and could exceed the current levels that the display's circuits can safely handle.

3.2 LAMP DRIVER

In the display, the task of switching lamps on and off is performed by the lamp driver. Page 10 shows the location of the lamp driver in the display. Page 16 is an illustration of the lamp driver and the fuses located in it.

The lamp driver has 21 connectors, providing power and signal inputs and outputs to digits. The functions of these connectors are as follows:

<u>Connector no.</u>	<u>Function</u>
1 - 16	Outputs to digits
17	Signal Input
18	Power input for outputs 1-8 (120V)
19	Power input for driver logic and fan (120V)
20	Power input for outputs 9-16 (120V)
24	Dim option selector

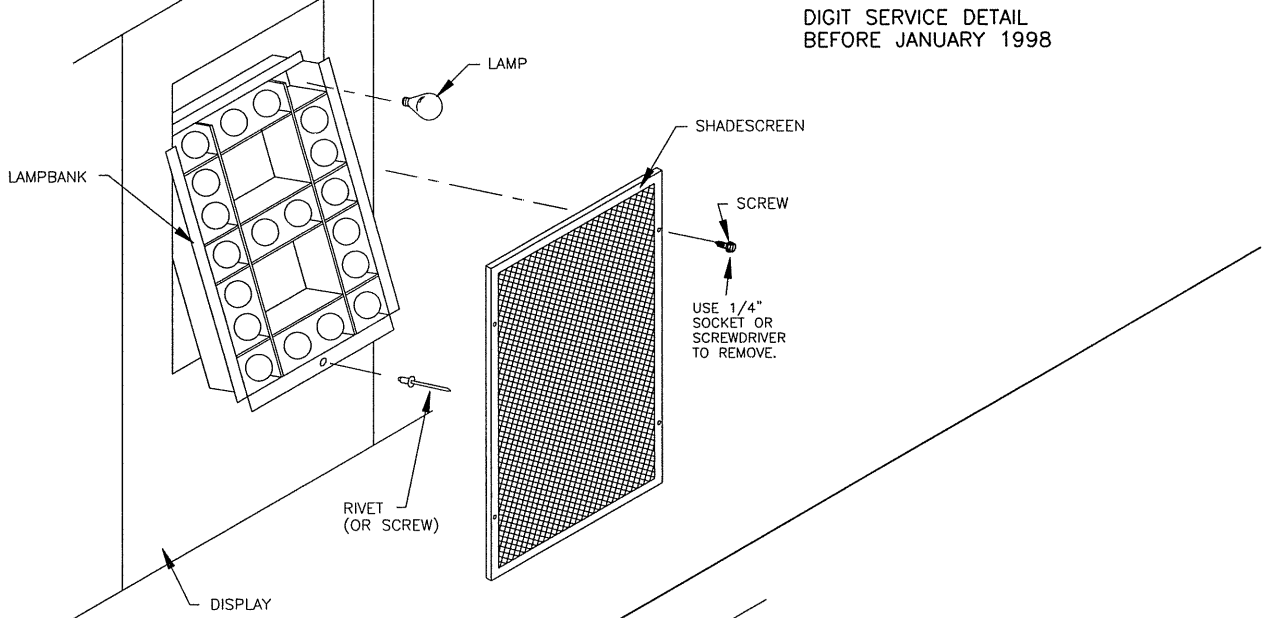
On page 10, the numbers on the digits refer to the lamp driver output connector wired to each digit.

3.3 DIGIT SEGMENTATION

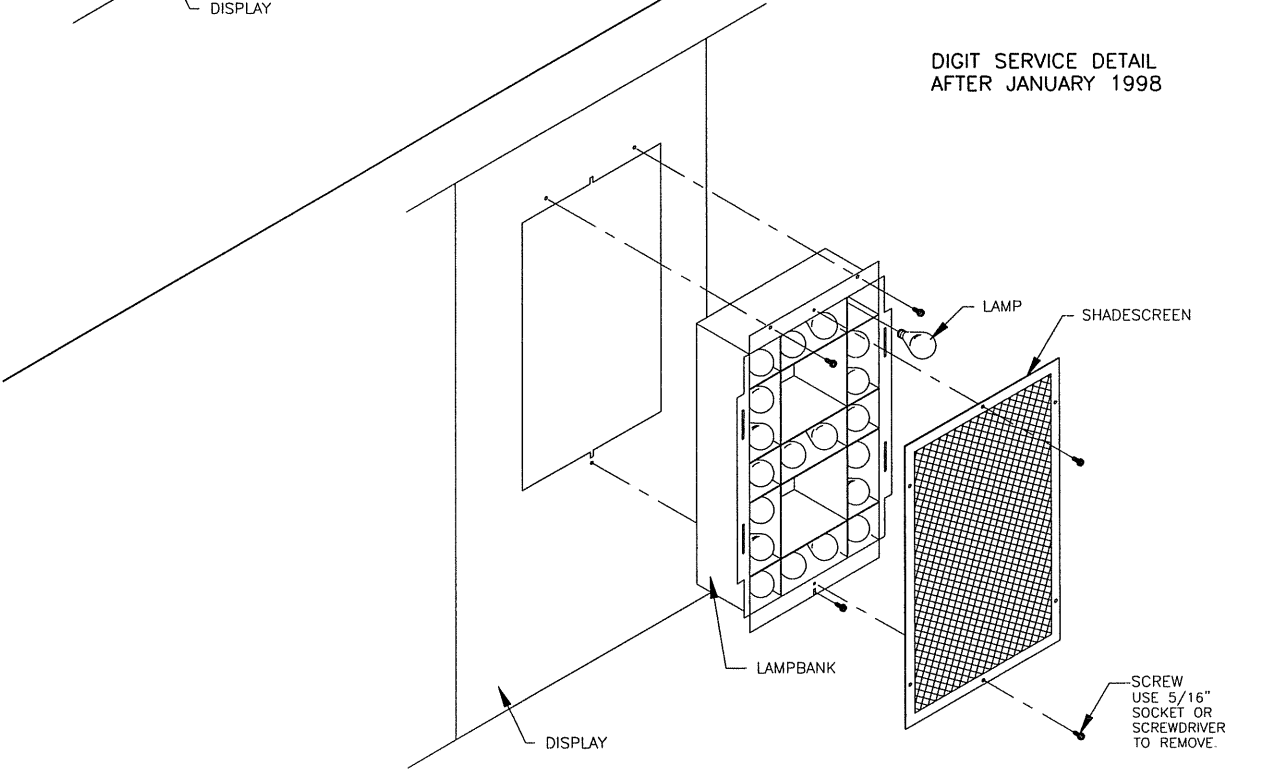
In a digit certain lamps always go on and off together. These groupings of lamps are known as "segments". Each digit has eight segments, referred by letters A through H. Page 17 illustrates these segments and shows which connector pin and wire color is wired to each segment.

3.4 SCHEMATIC

The schematic diagram on page 18 shows the power and signal inputs into the display and to the lamp driver. The component numbers correspond to those shown on page 10 and 11.



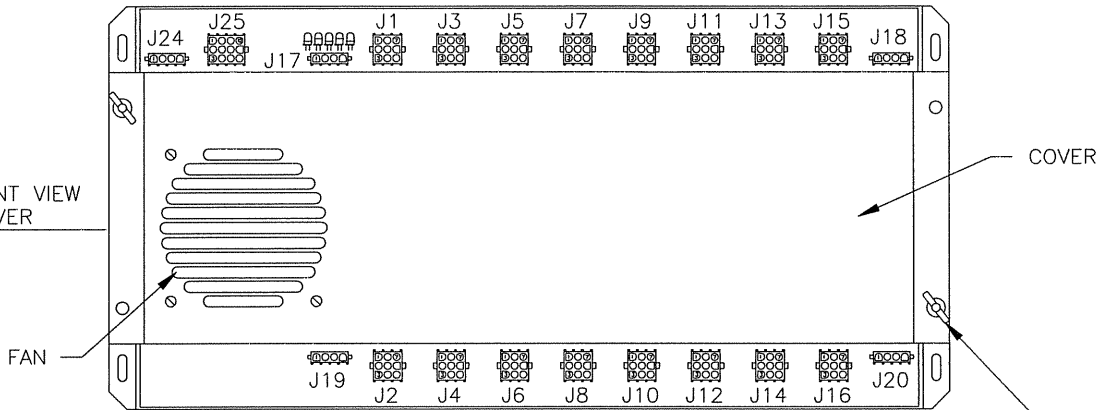
DIGIT SERVICE DETAIL
BEFORE JANUARY 1998



DIGIT SERVICE DETAIL
AFTER JANUARY 1998

DAKTRONICS, INC. BROOKINGS, SD 57006				
PROJ: OUTDOOR SCOREBOARDS				
TITLE: DIGIT SERVICE				
DES. BY:		DRAWN BY: TERRY P.		DATE: 31 JULY 86
REVISION	APPR. BY:	1064-E10A-27674		
SCALE:	1=15			
REV.	DATE	DESCRIPTION	BY	APPR.
2	10NOV97	ADDED DIGIT SERVICE AFTER JANUARY 1998 CHANGED SCALE FROM 1=10 TO 1=15	BDP	
1	5 MAR 91	CHANGED FROM "B" TO "A" SIZE DWG.	CF	

DRIVER FRONT VIEW WITH COVER



REMOVE TWO WING NUTS TO REMOVE COVER AND GAIN ACCESS TO FUSES.

J24			
PIN	FUNCTION	PIN	FUNCTION
1	NETWORK+	7	ADDR 3 -
2	NETWORK-	8	NTW GND -
3	NTWREF-P	9	NTW GND -
4	ADDR 0 -	10	FAN SW HOT
5	ADDR 1 -	11	FAN HOT
6	ADDR 2 -	12	NEUT

J17	
PIN	FUNCTION
1	SIGNAL +
2	SIGNAL -
3	N.C.
4	N.C.

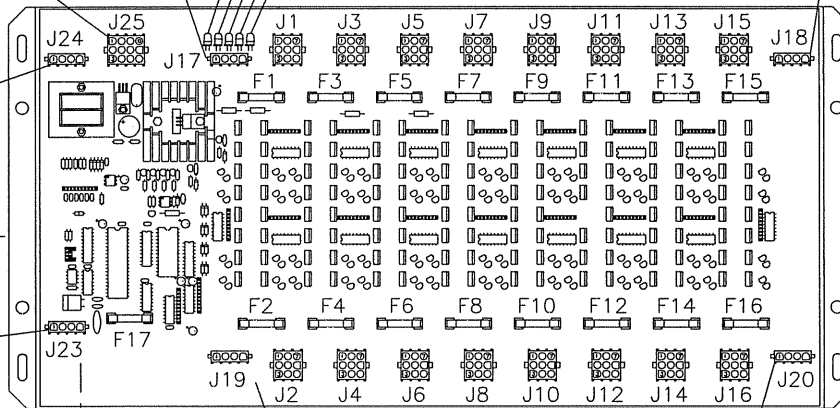
J1 - J16	
PIN	FUNCTION
1	SEG C
2	SEG B
3	SEG A
4	SEG F
5	SEG E
6	SEG D
7	COMMON
8	SEG H
9	SEG G

J18	
PIN	FUNCTION
1	LAMP NEUT
2	LAMP NEUT
3	LAMP HOT 1, 3, 5, 7
4	LAMP HOT 2, 4, 6, 8

J24	
PIN	FUNCTION
1	-5V
2	DIM SEL 1
3	-5V
4	DIM SEL 2

DRIVER FRONT VIEW WITH COVER REMOVED

J23	
PIN	FUNCTION
1	FAN SW HOT
2	N.C.
3	FAN HOT
4	NEUT



J19	
PIN	FUNCTION
1	NEUTRAL
2	NEUTRAL
3	120V HOT
4	120V HOT

J20	
PIN	FUNCTION
1	LAMP NEUT
2	LAMP NEUT
3	LAMP HOT 9,11,13,15
4	LAMP HOT 10,12,14,16

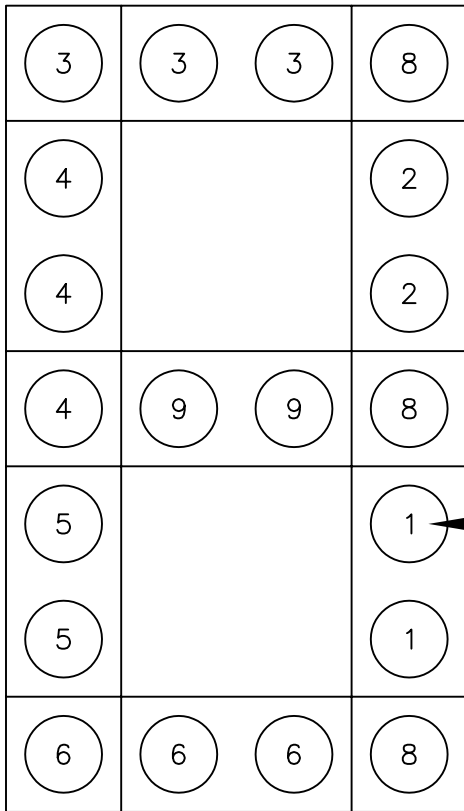
PLUG FROM FAN IN COVER CONNECTS TO J23

F1 THRU F16 ARE TYPE AGC-10, DAKTRONICS PART NUMBER F-1006. F17 IS TYPE AGC-1/2, DAKTRONICS PART NUMBER F-1000

DAKTRONICS, INC. BROOKINGS, SD 57006

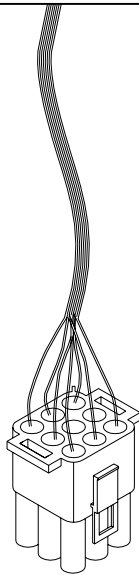
REV.	DATE	DESCRIPTION	BY	APPR.
2	29 APR 97	ADDED TABLES OF PINS AND FUNCTIONS.	AVB	AVB
1	5 MAR 91	CHANGED FROM "B" TO "A" SIZE DWG.	CF	

PROJ: MULTIPLEX CONTROLLERS	
TITLE: LAMP DRIVER, 16 COL., W/FAN	
DES. BY: JLH	DRAWN BY: JLH
DATE: 20 FEB 89	
REVISION	APPR. BY:
SCALE: 1=5	1033-R04A-37070



4 x 7 LAMP MATRIX DIGIT

CONNECTOR PIN NUMBER WIRED TO THAT SEGMENT

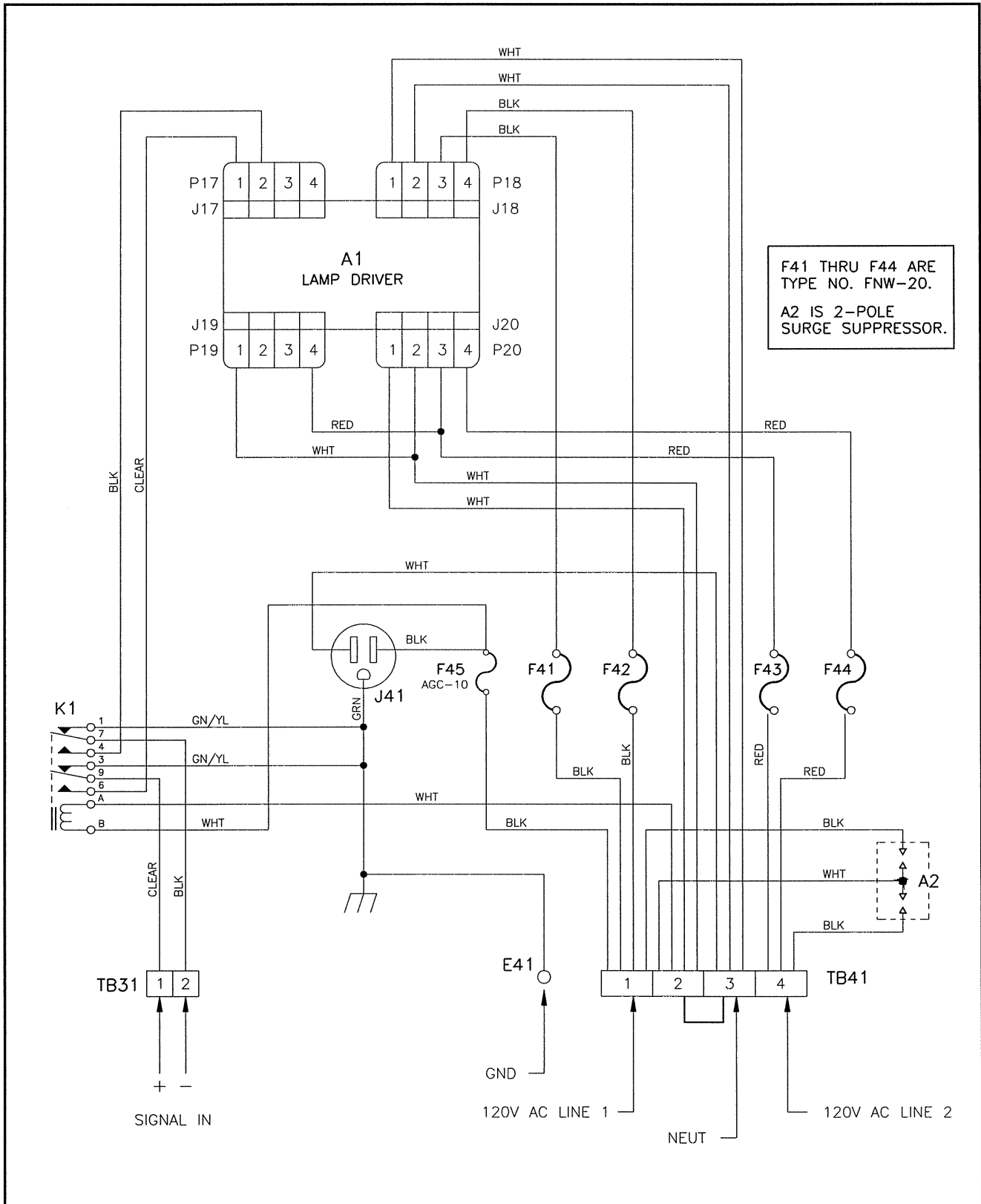


LAMP DRIVER CONNECTOR

COLOR CODE		
PIN NO.	WIRE COLOR	DRIVER SEGMENT
1	ORANGE	C
2	RED	B
3	BROWN	A
4	BLUE	F
5	GRN OR PNK	E
6	YEL OR TAN	D
7	BLACK	COMMON
8	GRAY	H
9	VIOLET	G

DAKTRONICS, INC. BROOKINGS, SD 57006		
PROJ: OUTDOOR SCOREBOARDS		
TITLE: SEGMENTS, 4 x 7 LAMP MATRIX DIGIT		
DES. BY:	DRAWN BY: AVB	DATE: 18 APR 89
REVISION	APPR. BY:	1064-R04A-37685
	SCALE: 1=1	

1	5 MAR 91	CHANGED FROM "B" TO "A" SIZE DWG.	CF	
REV.	DATE	DESCRIPTION	BY	APPR.



3	4 MAR 93	REMOVED MODEL NO.'S LIST.	C FICK	
2	26 MAY 92	ADDED MODEL CH-1036H TO LIST OF MODEL NO.'S.	C FICK	
1	25 APR 91	CHANGED DWG TITLE AND ADDED MODEL NO.'S	CF	
REV.	DATE	DESCRIPTION	BY	APPR.

DAKTRONICS, INC. BROOKINGS, SD 57006			
PROJ: CHRONDEK DISPLAYS			
TITLE: SCHEMATIC, 1 DRIVER DISPLAY			
DES. BY:	DRAWN BY: CF	DATE: 27 MAR 91	
REVISION	APPR. BY:	1081-R03A-46754	
	SCALE: NONE		

3.5 TROUBLESHOOTING

This is a list of possible problems that may occur and their possible solutions.

<u>Observed Problem</u>	<u>Possible Cause</u>
One lamp won't light	Burned-out lamp Broken wire behind digit
Digit segment won't light	Broken wire Poor contact at driver connector Internal driver malfunction
Entire digit won't light	Broken wire (black) Poor contact at connector, pin 7 Fuse blown in driver
Half the display won't light	Service breaker tripped Main fuse blown Poor contact at main power connection P18 disconnected
Entire display won't light	Power disruption Poor signal connection Driver logic fuse blown Control not connected to display P20 disconnected
Segment stays lit	Broken wire behind digit Internal driver malfunction
Garbled display	Control malfunction Internal driver malfunction

If a problem is observed in one digit, the cause may be isolated by swapping plugs on the driver. That is, connect the plug from the digit into a different jack. If the same digit shows the same problem, the cause may be in the digit or wiring. If the problem moves to another digit, then the cause is probably an internal driver problem.

Use a volt meter at driver inputs to determine if power is being supplied to the driver. An ohmmeter can be helpful in finding broken wires and bad connections. Internal electronic problems must be corrected by Chrondek or an authorized service center.

3.6 REPLACEMENT PARTS

<u>Part Name or Description</u>	<u>Type</u>	<u>Chrondek Part Number</u>
Lamp Driver		A-1033-42
J-Box, CHTS-300 Timer		A-1067-56
Fuse, main power, 20A	FNW-20	F-1016
Fuse, Lamp Driver, 10A	AGC-10	F-1006
Fuse, Driver Logic, 1/2A	AGC-1/2	F-1000
Digit Lampbank, 36" 4 x 7		A-1081-73
Digit Screen, 36" 4 x 7		S-1081-38
Digit Lampbank, 36", 1 x 7		A-1081-101
Digit Screen, 36", 1 x 7		S-1081-52
Socket, Med. Base		X-1046
Lamp, 30W Frosted, Reflector Type 30R20		DS-1126

For parts not listed, or for more information about installation service, please call Chrondek. Our phone number is (605) 692-5866, or call toll-free 1-800-854-6556.

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