

Installer Instructions for AlphaEclipse 3600 Signs (Series B)
(Form number 9711-8028A, January 31, 2005)

Instructions for the *Sign Installer*

ADAPTIVE[®]
Adaptive Micro Systems LLC

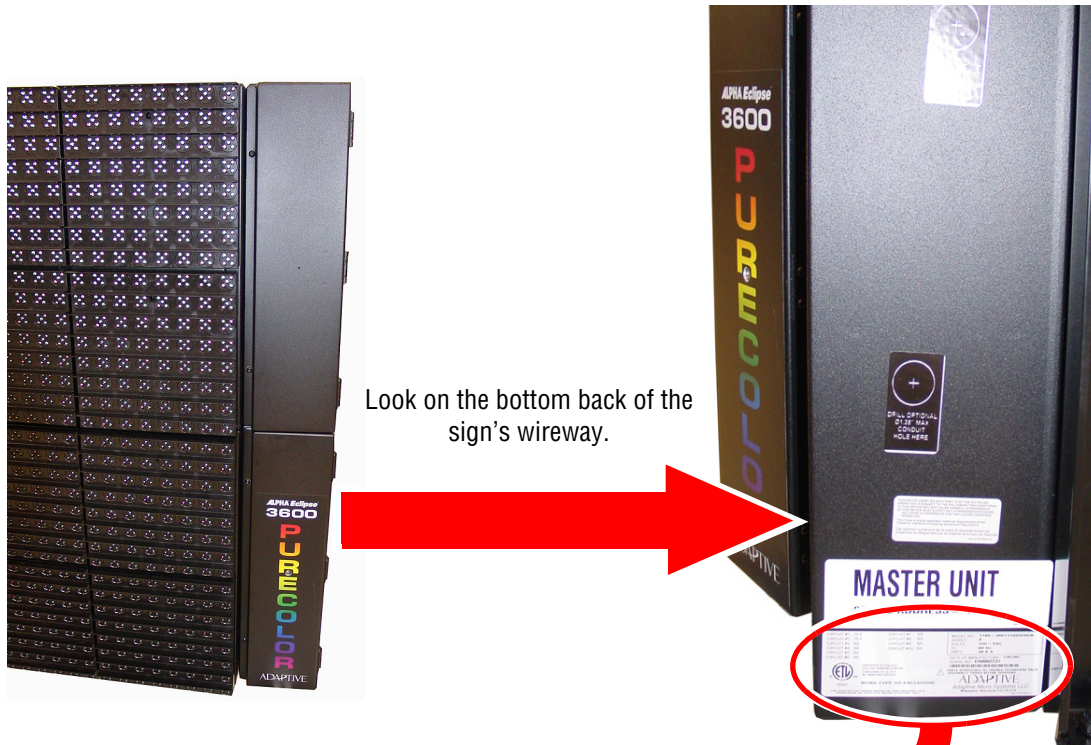


© Copyright 2004-2005 Adaptive Micro Systems LLC. All rights reserved.
Adaptive Micro Systems, 7840 North 86th Street, Milwaukee, WI 53224 USA
414-357-2020, 414-357-2029 (fax), <http://www.adaptivedisplays.com>

Trademarked names appear throughout this document. Rather than list the names and entities that own the trademarks or insert a trademark symbol with each mention of the trademarked name, the publisher states that it is using names for editorial purposes and to the benefit of the trademark owner with no intention of improperly using the trademark. The following are trademarks of Adaptive Micro Systems: Adaptive, Alpha, AlphaLert, AlphaNET, AlphaNet plus, AlphaEclipse, AlphaEclipse RoadStar, AlphaPremiere, AlphaTicker, AlphaVision, AlphaVision InfoTracker, Automode, BetaBrite, BetaBrite Director, BetaBrite Messaging Software, Big Dot, Director, EZ KEY II, EZ95, PagerNET, PPD, PrintPak, Serial Clock, Smart Alec, Solar, TimeNet.

The distinctive trade dress of this product is a trademark claimed by Adaptive Micro Systems LLC. Due to continuing product innovation, specifications in this manual are subject to change without notice.



1 Determine sign power requirements



Number of circuits required

Model number
Use this to find the sign's weight. See "Sign mounting (sheet 2)" on page 12.

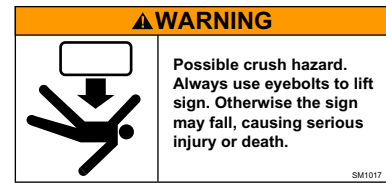
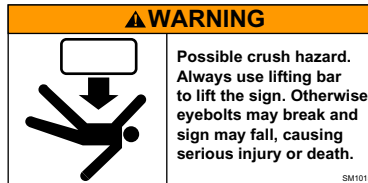
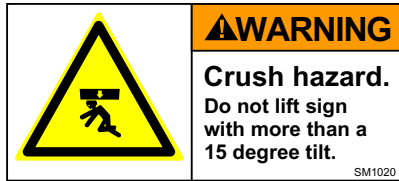
Total sign current

CIRCUIT #1: 19.4 CIRCUIT #2: 19.4 CIRCUIT #3: NA CIRCUIT #4: NA CIRCUIT #5: NA CIRCUIT #6: NA	CIRCUIT #7: NA CIRCUIT #8: NA CIRCUIT #9: NA CIRCUIT #10: NA	MODEL NO.: 1180 - 3601112032RGB SERIES: B VOLTS: 120 ~ VAC Hz: 60Hz AMPS: 38.8 A
 <p>CONFORMS TO STANDARD: ANSI/UL 60950-1 CERTIFIED TO: CAN/USA 22.2 No. 60950-1-03</p>		<p>DATE OF MANUFACTURE: 9/26/2004 SERIAL NO.: EH0002231</p>  <p>PARTS SERVICEABLE BY TRAINED TECHNICIANS ONLY! DISCONNECT POWER BEFORE SERVICING</p>
<p>65801 NEMA TYPE 3R ENCLOSURE IP44 RATED ENCLOSURE</p> <p>THE DISTINCTIVE TRADE DRESS OF THIS PRODUCT IS A TRADEMARK OF ADAPTIVE MICRO SYSTEMS LLC</p>		<p>ADAPTIVE Adaptive Micro Systems LLC Milwaukee, Wisconsin 53224 USA</p>

2

Mount signs

Observe safety precautions



Create a support structure for the signs

- All installations, superstructure designs, and connections must be designed and approved by a qualified structural engineer. Call Adaptive Micro Systems at 1-800-558-7022 for contact information for structural engineering consultants.
- Drill holes as needed in the sign's steel framework for fasteners, but consult the attached shop drawings for excluded areas. *Drilling holes in any of these excluded areas will void the sign's warranty.* When drilling holes, follow these guidelines: (1) Connections must be analyzed by a structural engineer. (2) Dissimilar metals should be isolated to avoid galvanic corrosion.
- Any area on the sign's frame that had paint removed during mounting must be recoated with a paint recognized by UL test #1332. *Failure to repaint the area will result in accelerated corrosion of the sign's structure. Adaptive Micro Systems is not responsible for any failure in the sign's structure because of this.* (POLANE HS Plus Polyurethane Enamel is used to paint the sign's frame during manufacturing.)

Ventilate signs adequately

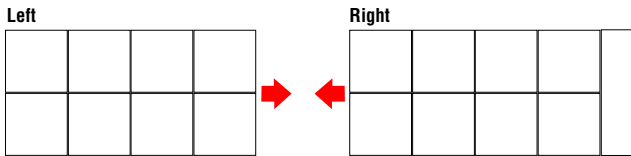
- If the sign is mounted to a solid surface like a wall, then nothing should block the space between the top, bottom, and sides of the sign and the solid surface.
- If there is an obstruction (as in a monument-style installation), then run duct work (not supplied) from the bottom side of the sign and laterally to the top of the sign to exhaust hot air. Be sure no rain or snow can enter the sign through this duct work. To avoid heat build-up and depending on sign size, more space may be required at the back of the sign to provide ample air flow. Fans can be used to supplement natural air flow. Adaptive Micro Systems recommends isolating the fresh air intakes from the exhaust air.

2 Mount signs (continued)

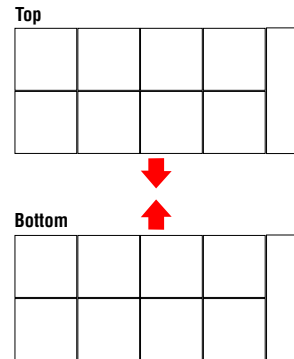
Multiple section sign assembly

NOTE: These instructions only apply to large signs that are shipped from the factory in multiple sections. These sections must then be assembled into a single sign at the installation site.

Vertical split or horizontal split assembly

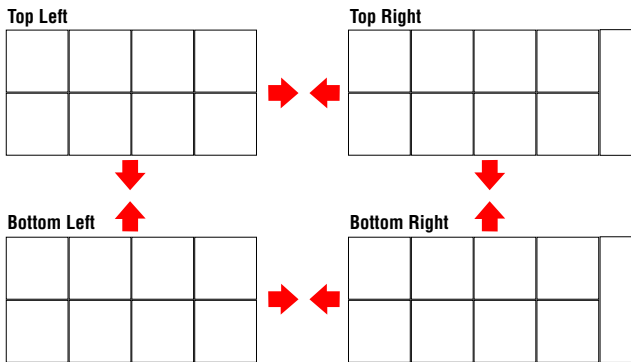


For a vertically split sign, see “Multiple section sign, vertical split assembly” on page 16.



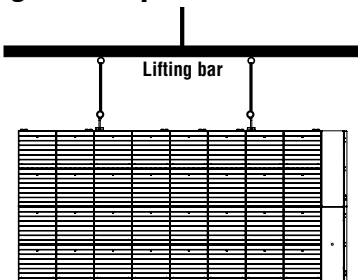
For a horizontally split sign, see “Multiple section sign, horizontal split assembly” on page 18.

Vertical and horizontal split assembly

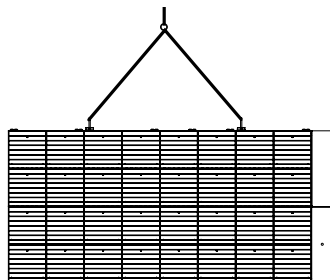


For a sign that is split both vertically and horizontally, see “Multiple section sign, vertical/horizontal split (sheet 1 of 2)” on page 18.

Lift signs into place and assemble



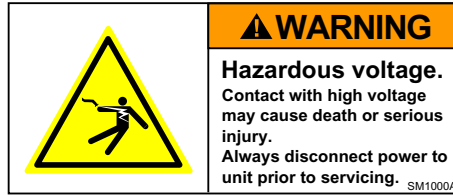
RECOMMENDED



NOT RECOMMENDED

See the shop drawings on page 10 for detailed sign mounting

See “Temperature probe mounting” on page 24 for information on the optional temperature probe.

3**Connect power****Observe safety precautions****Electrical installation guidelines**

- Inspect all internal sign cabling for proper connection and seating.
- All power wiring must be from circuit breaker-protected lines.
- A two-pole disconnect device must be installed in the building wiring for each branch circuit supplying the sign.
- The sign must be properly grounded according to the applicable codes (for example, NEC Article 250 and 600, and IEEE 1100-1999).
- Run separate conduits for signal wires (for example, RS232, RS485) and for power wires. However, fiber optic wire may be run in the same conduit with power wires.
- All electrical connections must be watertight.
- Use minimum 80° C copper wire only.
Utiliser uniquement un fil en cuivre pouvant supporter 80° C minimum.
- Torque terminals to a minimum of 7 in/lbs and a maximum of 10 in/lbs.
Serrer les bornes à 0,79 N/m minimum, mais pas à plus de 1,13 N/m.

Run power to the sign

Use the information from “Determine sign power requirements” on page 2.

NOTE: Make sure two conduits are run to the sign: one for power and the other for communication wires. See “Connect MASTER UNIT to messaging computer” on page 8.

Ground the sign

The sign must be properly grounded in order to provide the following three types of protection:

- Ground fault protection — The sign must be wired to provide a permanent, low impedance pathway to carry sign ground fault current. *Earth grounding a sign through some type of ground rod bonded to the sign is not sufficient ground fault protection.*
- Lightning strike protection — A sign must be earth grounded either through an existing ground rod or separate ground rod(s) bonded to the sign. See National Electrical Code (NEC) Article 250.32. A ground lug in the sign’s wireway is provided for this purpose.
- Electronic equipment protection — A common cause for the failure of sensitive electronic equipment is the presence of objectionable current on grounding or bonding paths. Likely causes for objectionable current are (1) errors in installation wiring, (2) improper neutral-to-case bonds, and (3) equipment-grounding conductor used to carry neutral current.

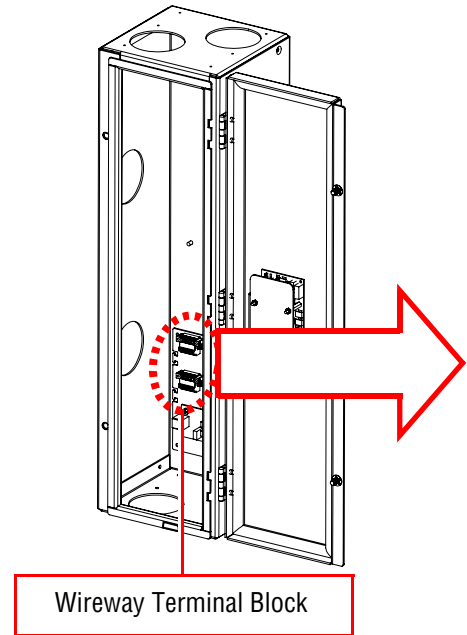
NOTE: Though #3 is permitted by NEC Article 250.32(B)(2), Adaptive does *not* recommend this wiring method because it creates a potentially hazardous situation.

4 Wire signs together (if only 1 sign, skip this)

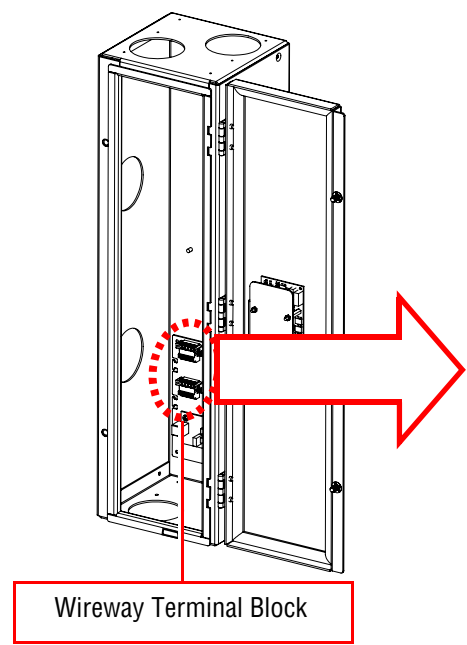
How are the signs labeled? (select one below)

MASTER / SECONDARY MASTER

Sign Wireways (back)



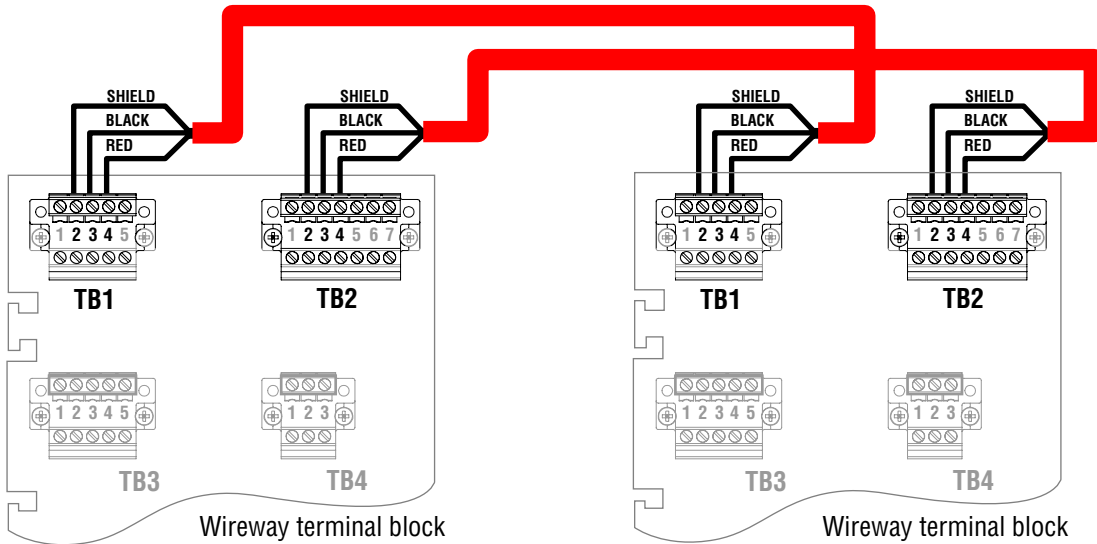
MASTER / SLAVE





MASTER UNIT
SERIAL ADDRESS = 1

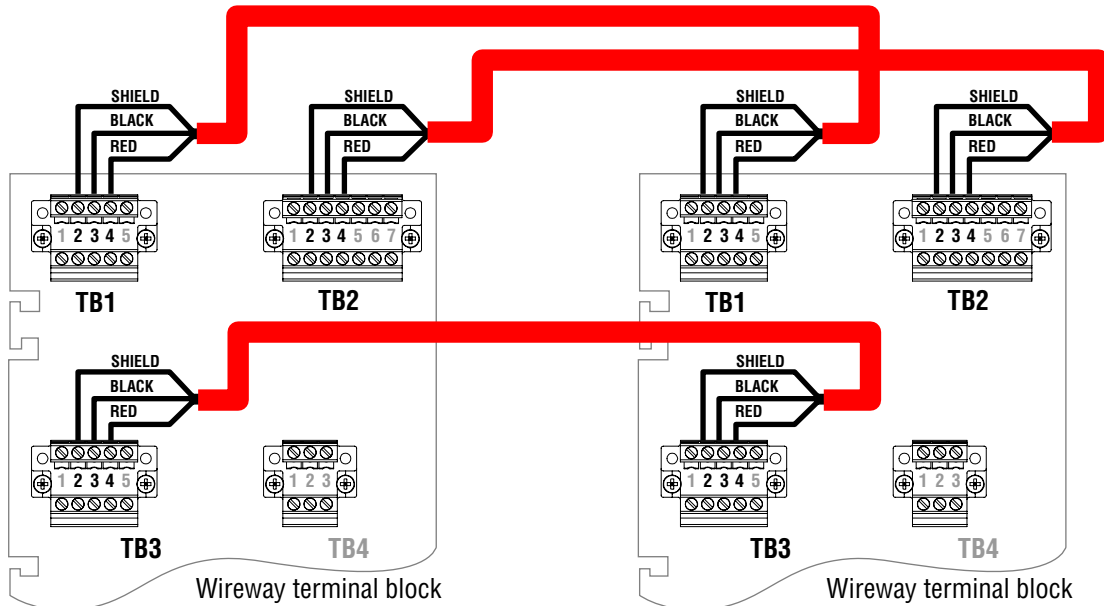
SECONDARY MASTER UNIT
SERIAL ADDRESS = 2



(To connect 3 or more signs, go to "MASTER / SECONDARY MASTER sign-to-sign wiring for 3 or more signs" on page 25.)

MASTER UNIT
SERIAL ADDRESS = 1

SLAVE UNIT
SERIAL ADDRESS = 2



(To connect 3 or more signs, go to "MASTER / SLAVE sign-to-sign wiring for 3 or more signs" on page 25.)

5 Connect MASTER UNIT to messaging computer

What is included with the signs? (select one below)

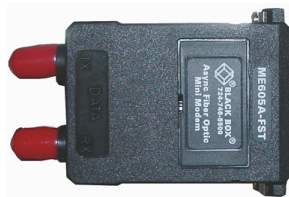
Converter Box III
 (Connected by outdoor wire to MASTER UNIT. Connected to messaging computer by cable. Placed next to computer.)



Telephone modem
 (One modem connected inside MASTER UNIT. Another connected to messaging computer.)



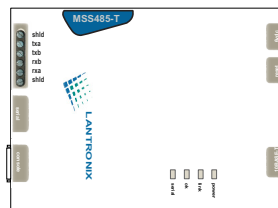
Fiber optic modem
 (One fiber optic modem connected inside MASTER UNIT wireway. Another fiber optic modem connected to messaging computer.)



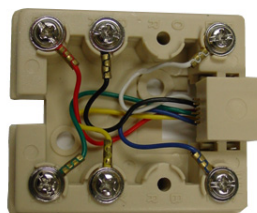
Alpha RF900 wireless transceiver
 (A client transceiver connected inside MASTER UNIT. A server transceiver connected to messaging computer.)

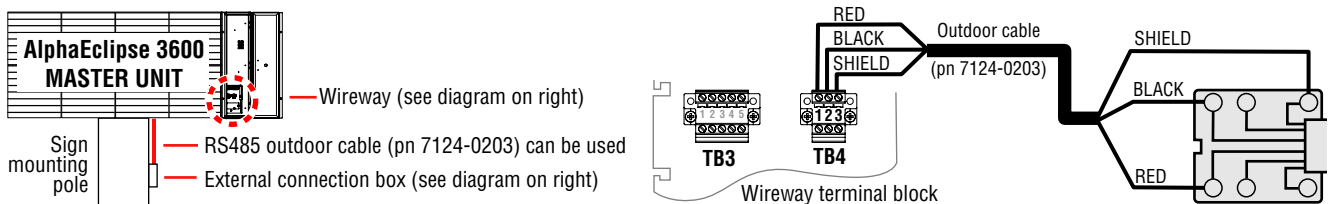
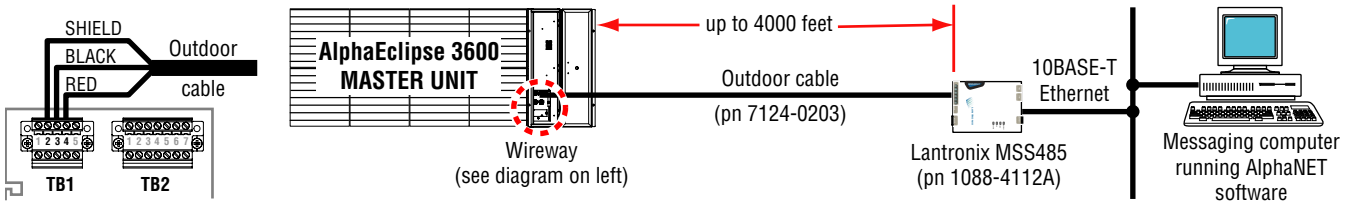
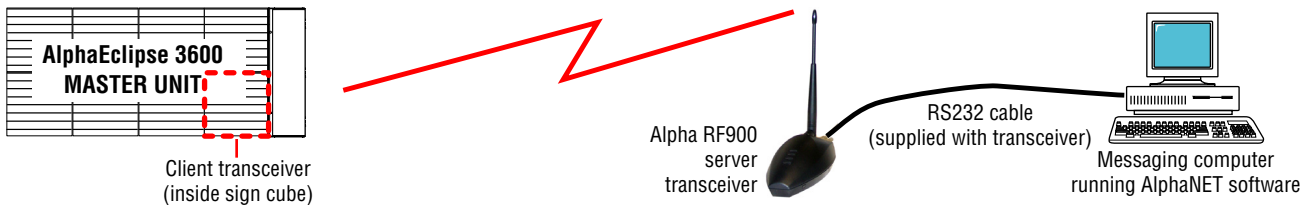
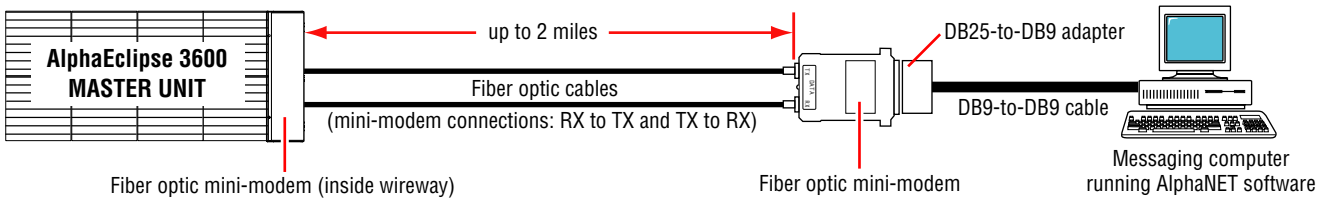
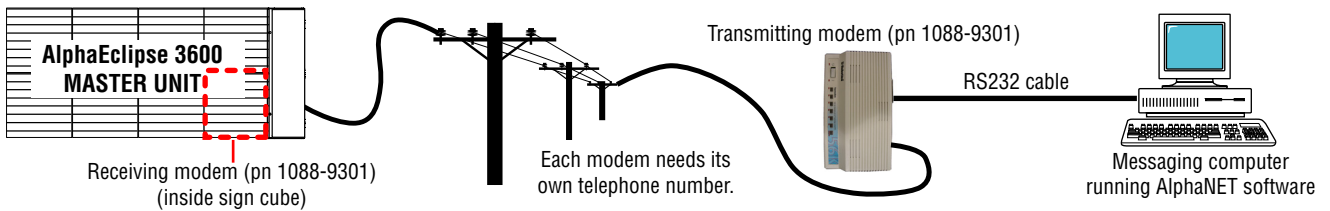
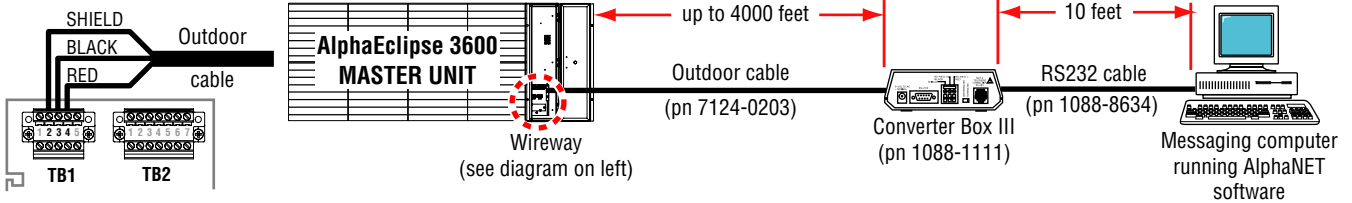
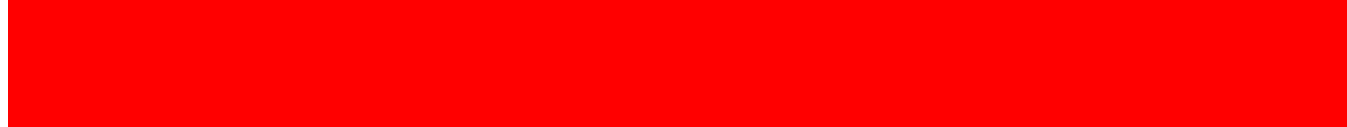


Lantronix MSS485 Ethernet interface
 (Connected to MASTER UNIT by outdoor wire. Also, MSS485 and messaging computer both connected to Ethernet.)

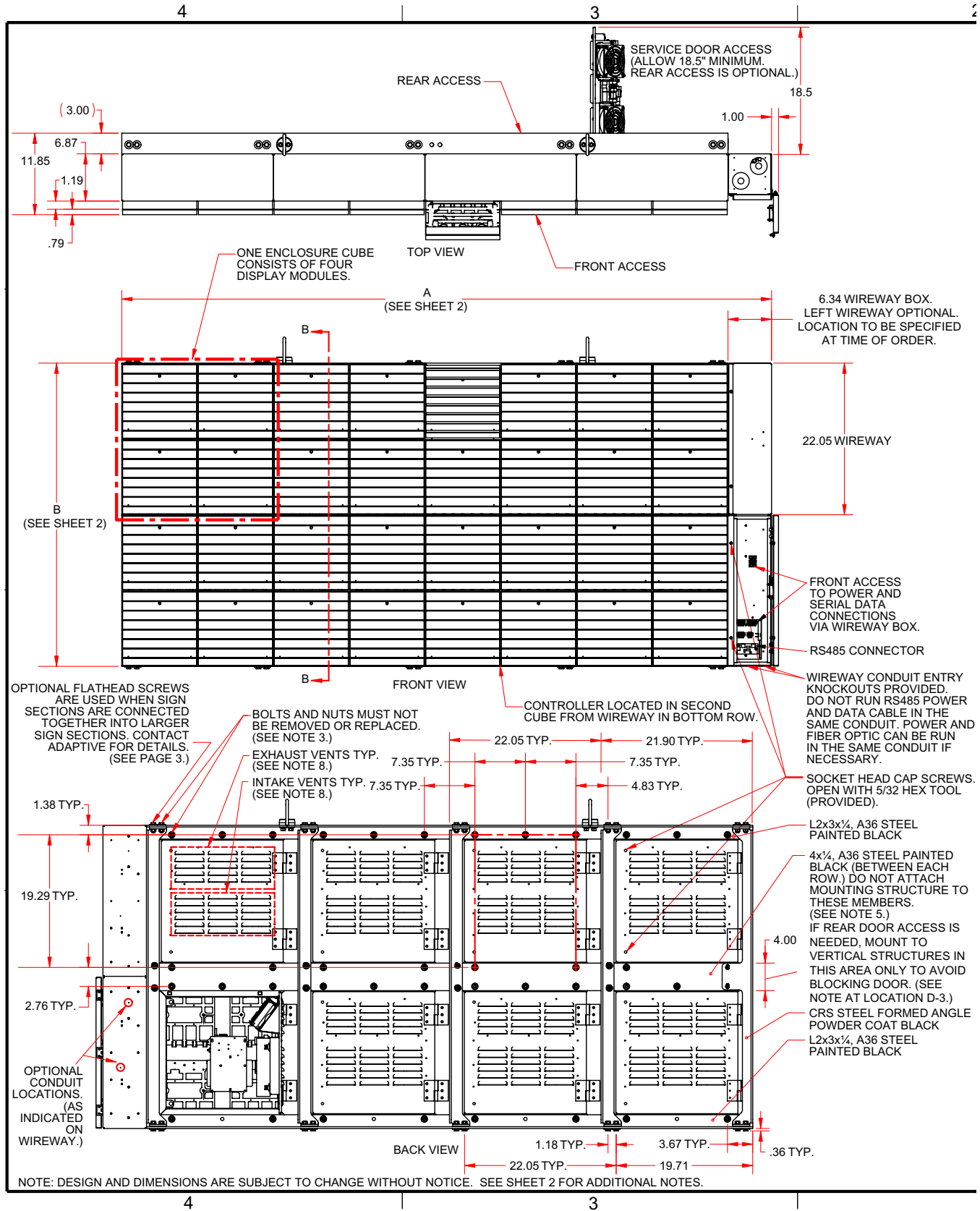


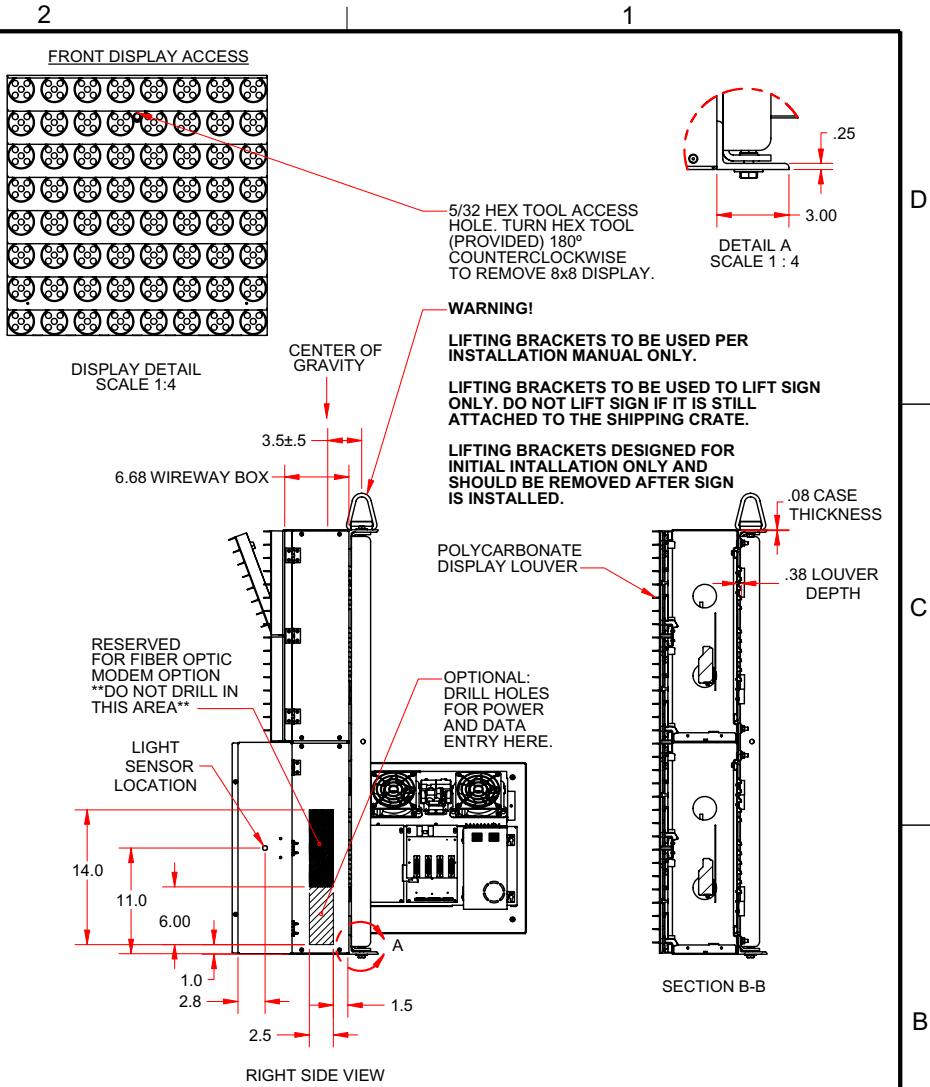
External connection box
 (Connected to MASTER UNIT using outdoor wire. Placed at base of signs.)





Sign mounting (sheet 1)

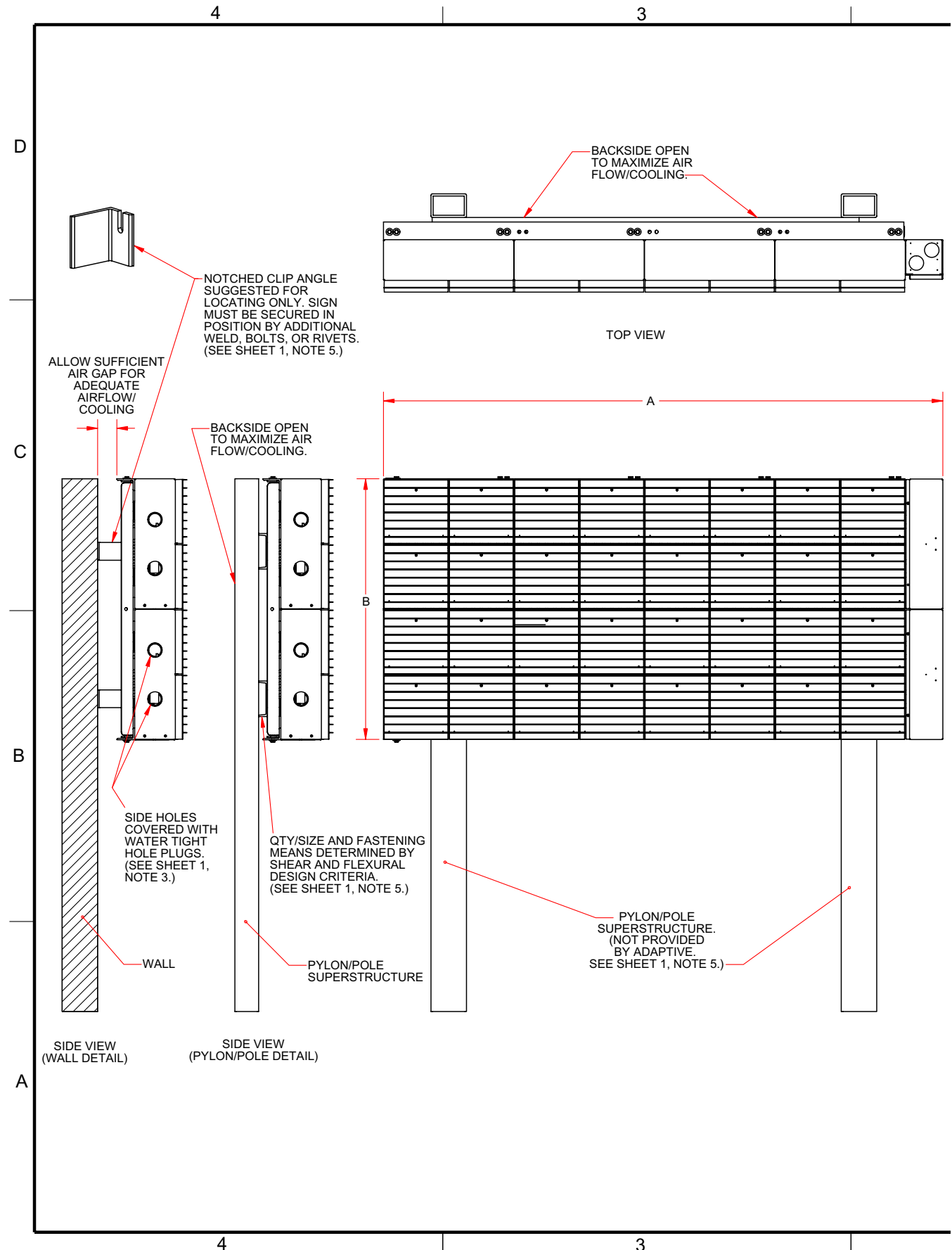




- NOTES:**
- 1) REFER TO INSTALLATION MANUAL FOR POWER AND ADDITIONAL INSTALLATION REQUIREMENTS.
 - 2) THE ONLY SERVICE TOOLS REQUIRED ARE A #2 PHILLIPS SCREWDRIVER, 5/32 HEX TOOL (PROVIDED), AND A TECHNICIANS SLOTTED BLADE SCREWDRIVER (PROVIDED).
 - 3) REMOVAL OF ANY FASTENERS OR OTHER NOTED PARTS WILL NEGATE THE PRODUCT WARRANTY.
 - 4) ALL FASTENERS ARE METRIC A2 STAINLESS STEEL.
 - 5) USE ONLY TOP AND BOTTOM ANGLE OR VERTICAL ANGLES TO MOUNT SIGN DIRECTLY TO SUPERSTRUCTURE. ALL INSTALLATIONS, SUPERSTRUCTURE DESIGNS, AND CONNECTIONS MUST BE DESIGNED/APPROVED BY A QUALIFIED STRUCTUAL ENGINEER. CALL ADAPTIVE MICRO SYSTEM AT 1-800-558-7022 FOR STRUCTURAL ENGINEERING CONSULTANT CONTACT INFORMATION.
 - 6) DUE TO STRENGTH LIMITATION OF DISPLAY SUBSTRUCTURE, LARGER SIGNS WILL REQUIRE MULTIPLE DISPLAY SECTIONS. DISPLAY SECTION SIZE WILL BE OPTIMIZED FOR PRODUCTION YIELD AND MAY VARY WITH EACH SIGN. (SEE SHEET 3.)
 - 7) DESIGN AND DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
 - 8) IF SIGN IS BUILT INTO AN ENCLOSED STRUCTURE, INTAKE AND EXHAUST AIR SHALL BE PROPERLY VENTED TO PREVENT MIXING AND RECIRCULATION OF EXHAUST AIR WITH THE INTAKE AIR.

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED:				 Adaptive Micro Systems LLC 7840 North 86th Street Milwaukee, WI 53224 USA	
.X	±0.1			TITLE	
.XX	±0.02			ALPHA ECLIPSE 3600 MECHANICAL DETAILS	
.XXX	±0.005			SIZE	DOCUMENT NO.
ANGLES	±1°			C	11800001-07
DESIGNED BY	DATE	APPROVED BY	DATE	SCALE:	STATUS:
SSL	9/4/03	SSL	9/4/03	1:10	Released
REV	DESCRIPTION	ECO	BY	DATE	SHT
A	RELEASED FOR PRODUCTION PER RFE 1596				1 of 5

Sign mounting (sheet 2)



2

1

Model Number Explanation:	SIGN SECTION MODEL NUMBER	SIGN WEIGHT (lbs)	¹ DIM "A"	¹ DIM "B"
3600 - 64 x 16 R/A/RGB	AlphaEclipse 3600 -32x16 R/A/RGB	100	50.43	22.05
	AlphaEclipse 3600 -48x16 R/A/RGB	150	72.48	22.05
	AlphaEclipse 3600 -64x16 R/A/RGB	200	94.53	22.05
	AlphaEclipse 3600 -80x16 R/A/RGB	250	116.58	22.05
	AlphaEclipse 3600 -96x16 R/A/RGB	300	138.62	22.05
	AlphaEclipse 3600 -112x16 R/A/RGB	350	160.67	22.05
	AlphaEclipse 3600 -128x16 R/A/RGB	400	182.72	22.05
	AlphaEclipse 3600 -144x16 R/A/RGB	450	204.76	22.05
	AlphaEclipse 3600 -160x16 R/A/RGB	500	226.81	22.05
	AlphaEclipse 3600 -176x16 R/A/RGB	550	248.86	22.05
	AlphaEclipse 3600 -32x32 R/A/RGB	200	50.43	44.09
	AlphaEclipse 3600 -48x32 R/A/RGB	300	72.48	44.09
	AlphaEclipse 3600 -64x32 R/A/RGB	400	94.53	44.09
	AlphaEclipse 3600 -80x32 R/A/RGB	500	116.58	44.09
	AlphaEclipse 3600 -96x32 R/A/RGB	600	138.62	44.09
	AlphaEclipse 3600 -112x32 R/A/RGB	700	160.67	44.09
	AlphaEclipse 3600 -128x32 R/A/RGB	800	182.72	44.09
	AlphaEclipse 3600 -144x32 R/A/RGB	900	204.76	44.09
	AlphaEclipse 3600 -160x32 R/A/RGB	1000	226.81	44.09
	AlphaEclipse 3600 -176x32 R/A/RGB	1100	248.86	44.09
	AlphaEclipse 3600 -32x48 R/A/RGB	300	50.43	66.14
	AlphaEclipse 3600 -48x48 R/A/RGB	450	72.48	66.14
	AlphaEclipse 3600 -64x48 R/A/RGB	600	94.53	66.14
	AlphaEclipse 3600 -80x48 R/A/RGB	750	116.58	66.14
	AlphaEclipse 3600 -96x48 R/A/RGB	900	138.62	66.14
	AlphaEclipse 3600 -112x48 R/A/RGB	1050	160.67	66.14
	AlphaEclipse 3600 -128x48 R/A/RGB	1200	182.72	66.14
	AlphaEclipse 3600 -144x48 R/A/RGB	1350	204.76	66.14
	AlphaEclipse 3600 -160x48 R/A/RGB	1500	226.81	66.14
	AlphaEclipse 3600 -176x48 R/A/RGB	1650	248.86	66.14
	AlphaEclipse 3600 -32x64 R/A/RGB	400	50.43	88.19
	AlphaEclipse 3600 -48x64 R/A/RGB	600	72.48	88.19
	AlphaEclipse 3600 -64x64 R/A/RGB	800	94.53	88.19
	AlphaEclipse 3600 -80x64 R/A/RGB	1000	116.58	88.19
	AlphaEclipse 3600 -96x64 R/A/RGB	1200	138.62	88.19
	AlphaEclipse 3600 -112x64 R/A/RGB	1400	160.67	88.19
	AlphaEclipse 3600 -128x64 R/A/RGB	1600	182.72	88.19
	AlphaEclipse 3600 -144x64 R/A/RGB	1800	204.76	88.19
	AlphaEclipse 3600 -160x64 R/A/RGB	2000	226.81	88.19
	AlphaEclipse 3600 -176x64 R/A/RGB	2200	248.86	88.19
	AlphaEclipse 3600 -32x80 R/A/RGB	500	50.43	110.24
	AlphaEclipse 3600 -48x80 R/A/RGB	750	72.48	110.24
	AlphaEclipse 3600 -64x80 R/A/RGB	1000	94.53	110.24
	AlphaEclipse 3600 -80x80 R/A/RGB	1250	116.58	110.24
	AlphaEclipse 3600 -96x80 R/A/RGB	1500	138.62	110.24
	AlphaEclipse 3600 -112x80 R/A/RGB	1750	160.67	110.24
	AlphaEclipse 3600 -128x80 R/A/RGB	2000	182.72	110.24
	AlphaEclipse 3600 -144x80 R/A/RGB	2250	204.76	110.24
	AlphaEclipse 3600 -160x80 R/A/RGB	2500	226.81	110.24
	AlphaEclipse 3600 -176x80 R/A/RGB	2750	248.86	110.24

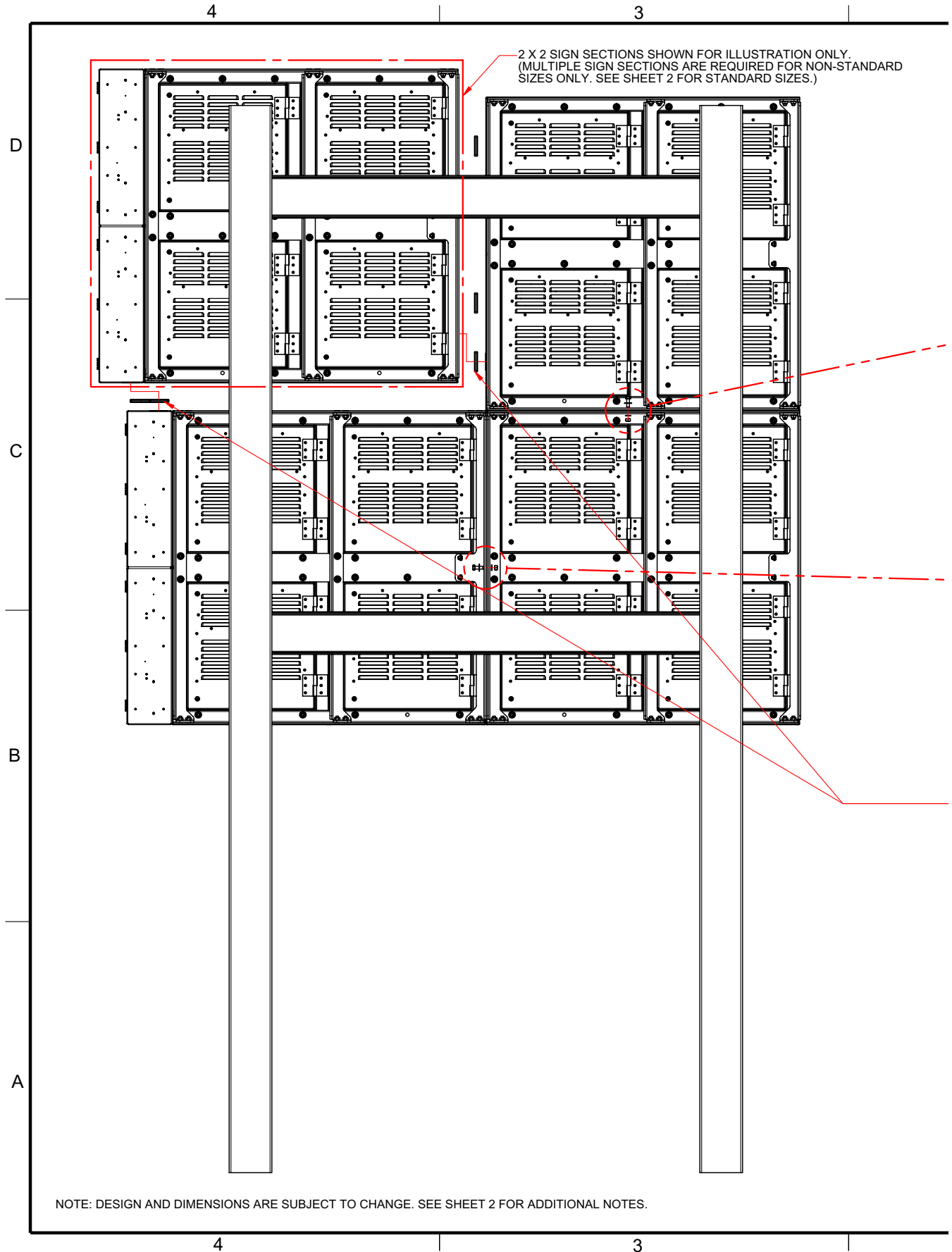
Notes:
 1) Table represents standard single sign sections only. Dimensions include either Left or Right mounted wireway. Location to be specified at time of order. See note 2 for signs exceeding table values.
 2) Contact Adaptive for information about multiple sign sections which are available up to 256x128.
 3) All dimensions ±.50"¹
 4) Weight ±10%

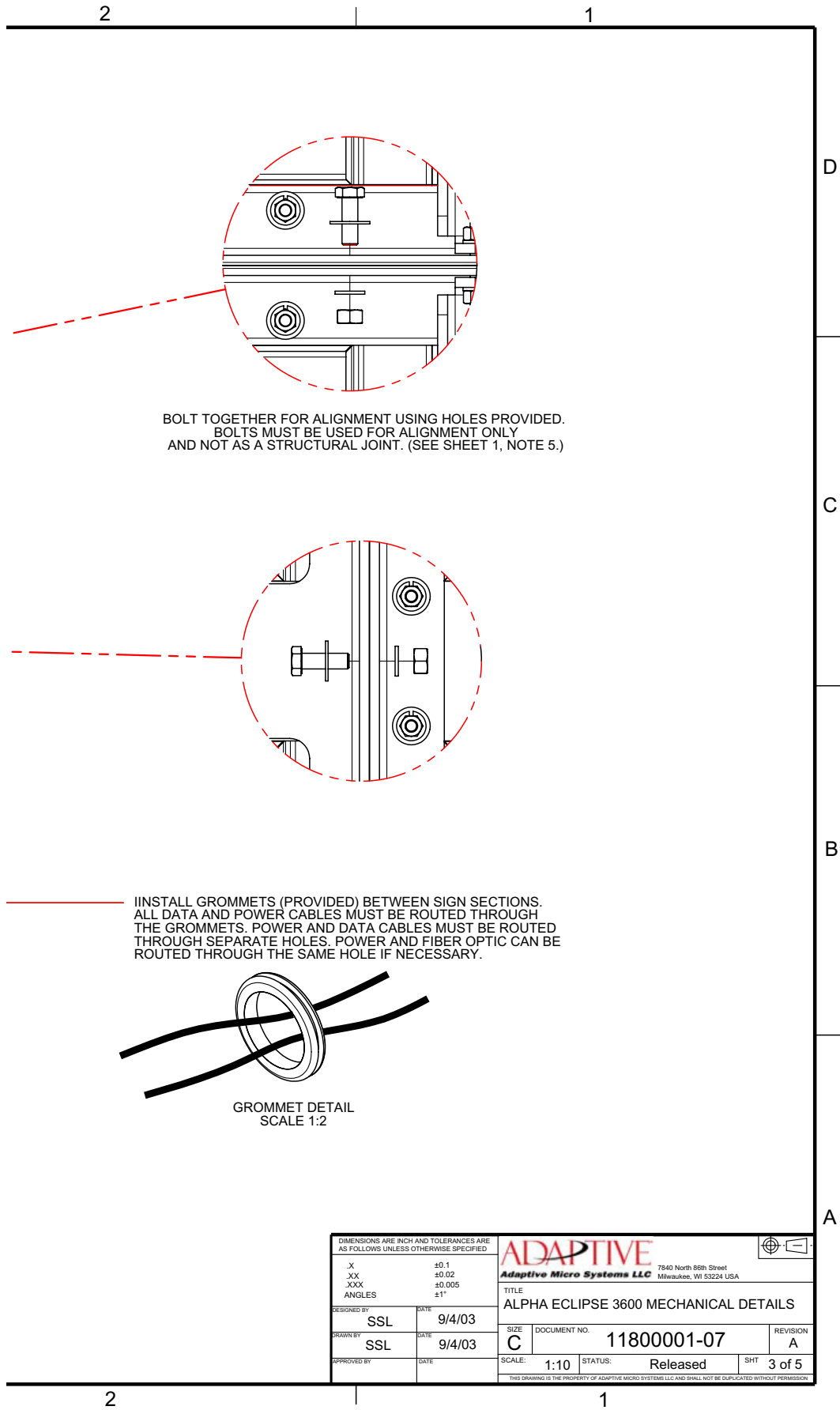
DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED .X ±0.1 .XX ±0.02 .XXX ±0.005 ANGLES ±1°		7840 North 86th Street Milwaukee, WI 53224 USA	
DESIGNED BY: SSL DATE: 9/4/03		TITLE: ALPHA ECLIPSE 3600 MECHANICAL DETAILS	
DRAWN BY: SSL DATE: 9/4/03		SIZE: C	DOCUMENT NO.: 11800001-07
APPROVED BY:		SCALE: 1:12	STATUS: Released
		SHEET: 2 of 5	REVISION: A

2

1

Sign mounting (sheet 3)





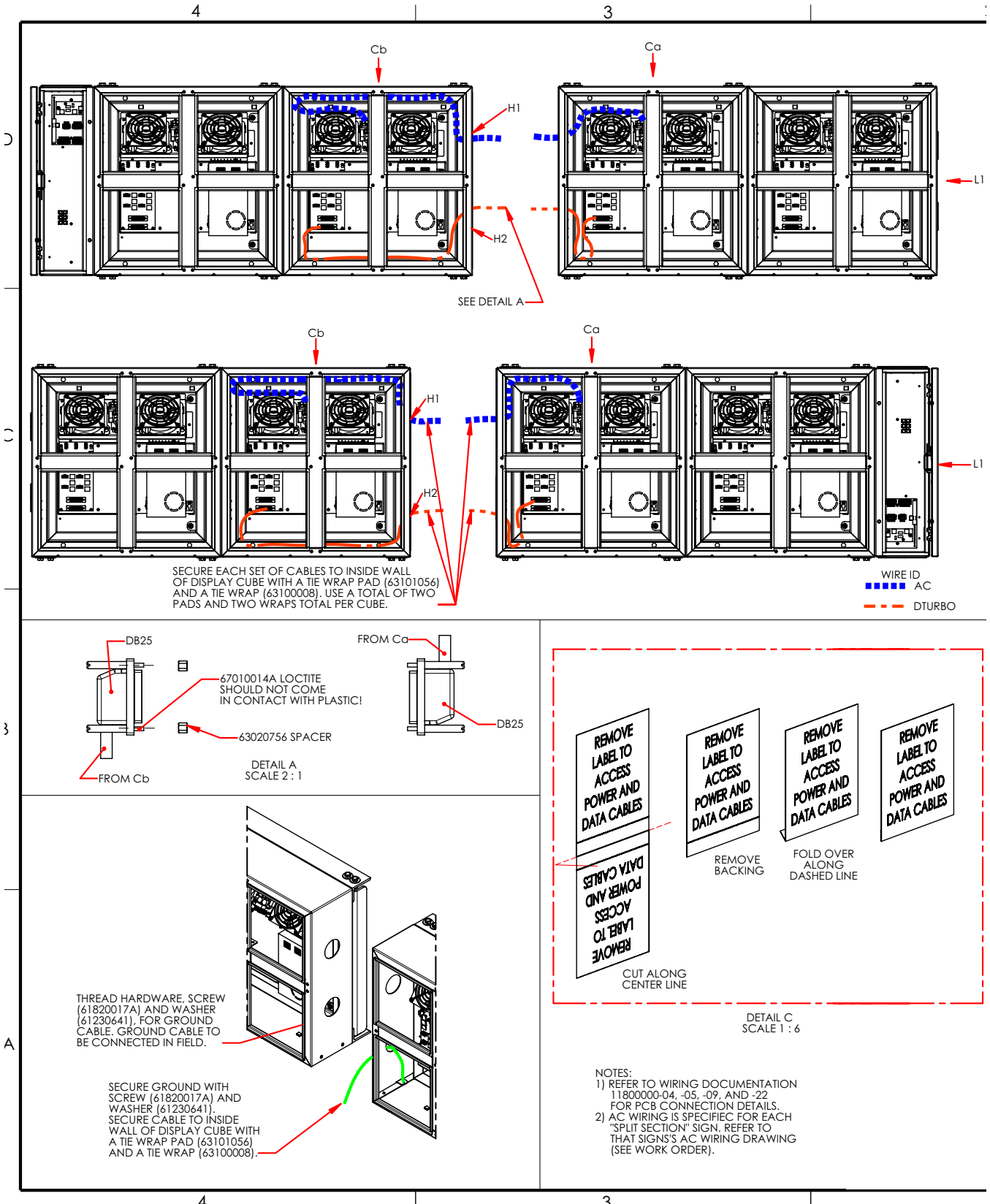
BOLT TOGETHER FOR ALIGNMENT USING HOLES PROVIDED.
 BOLTS MUST BE USED FOR ALIGNMENT ONLY
 AND NOT AS A STRUCTURAL JOINT. (SEE SHEET 1, NOTE 5.)

INSTALL GROMMETS (PROVIDED) BETWEEN SIGN SECTIONS.
 ALL DATA AND POWER CABLES MUST BE ROUTED THROUGH
 THE GROMMETS. POWER AND DATA CABLES MUST BE ROUTED
 THROUGH SEPARATE HOLES. POWER AND FIBER OPTIC CAN BE
 ROUTED THROUGH THE SAME HOLE IF NECESSARY.

GROMMET DETAIL
 SCALE 1:2

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED		 Adaptive Micro Systems LLC <small>7840 North 86th Street Milwaukee, WI 53224 USA</small>			
.X	±0.1				
.XX	±0.02	ALPHA ECLIPSE 3600 MECHANICAL DETAILS		REVISION	
.XXX	±0.005	DESIGNED BY	DATE	SIZE	DOCUMENT NO.
ANGLES	±1°	SSL	9/4/03	C	11800001-07
DRAWN BY		DATE	SCALE:	STATUS:	SHT
SSL		9/4/03	1:10	Released	3 of 5
APPROVED BY		DATE	THIS DRAWING IS THE PROPERTY OF ADAPTIVE MICRO SYSTEMS LLC AND SHALL NOT BE DUPLICATED WITHOUT PERMISSION		

Multiple section sign, vertical split assembly

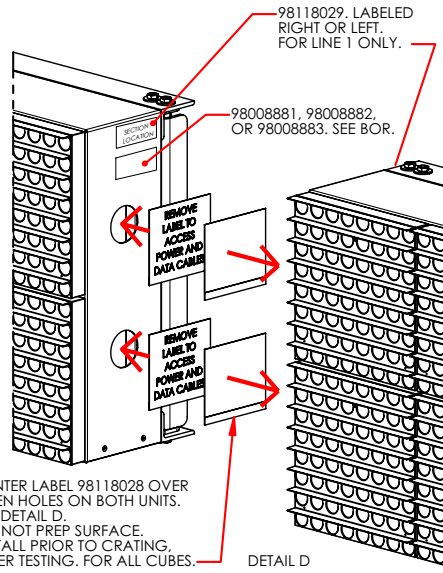
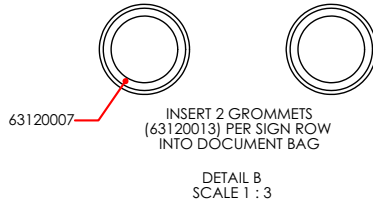


2

1

SPLIT SECTION WIRING							
Between Ca & Cb (Left Wireway)							
Name	From		Via			To	
	Module No.	Name	Wire No.	Color	Length	Module No.	Name
AC	LxCb	PCB1-P2	71120304	N/A	24"	LxCb	H1
	LxCb	AP-TB1-B1	71120301	BLK	50"	LxCb	H1
		AP-TB1-B2		WHT			
		AP-TB1-B3		GRN			
LxCa	PCB1-P1	71120302	N/A	62"	LxCa	H1	
Dturbo	LxCb	PCB2-P8	71240901	N/A	40"	LxCb	H2
	LxCa	PCB2-P7	71240901	N/A	40"	LxCa	H2
Ground	LxCa	GND2	71120116	N/A	13"	LxCa	H2

Between Ca & Cb (Right Wireway)							
Name	From		Via			To	
	Module No.	Name	Wire No.	Color	Length	Module No.	Name
AC	LxCa	PCB1-P1	71120304	N/A	24"	LxCa	H1
	LxCa	AP-TB1-A1	71120301	BLK	50"	LxCa	H1
		AP-TB1-A2		WHT			
		AP-TB1-A3		GRN			
LxCb	PCB1-P2	71120302	N/A	62"	LxCb	H1	
Dturbo	LxCb	PCB2-P8	71240901	N/A	40"	LxCb	H2
	LxCa	PCB2-P7	71240901	N/A	40"	LxCa	H2
Ground	LxCa	GND2	71120116	N/A	13"	LxCa	H2

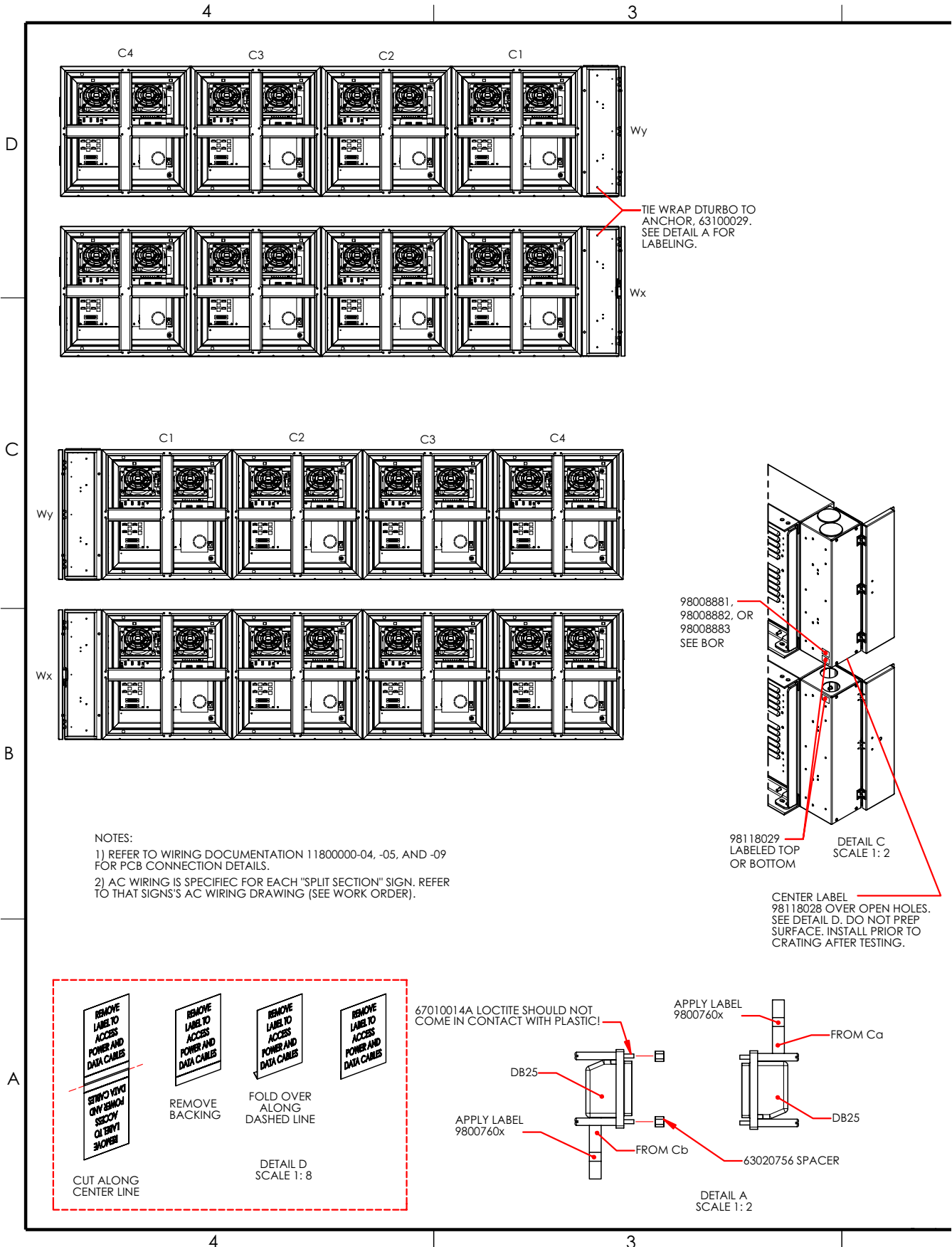


DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED				 Adaptive Micro Systems LLC 7840 North 86th Street Milwaukee, WI 53224 USA	
.X	±0.1	DRAWN BY		DATE	
.XX	±0.02	SSL		12/2/03	
.XXX	±0.005	CHECKED BY		DATE	
ANGLES	±1°	APPROVED BY		DATE	
A RELEASED FOR PRODUCTION		ECCO		BY DATE	
REV.		DESCRIPTION		DATE	
TITLE		DOCUMENT NO.		REVISION	
P1180, MULTI-SECTION, VERTICAL SPLIT ASSEMBLY		11800000-15		A+	
SCALE: 1:8		STATUS: Released		SHT 1 of 1	
THIS DRAWING IS THE PROPERTY OF ADAPTIVE MICRO SYSTEMS, LLC AND SHALL NOT BE DUPLICATED WITHOUT PERMISSION.					

2

1

Multiple section sign, horizontal split assembly

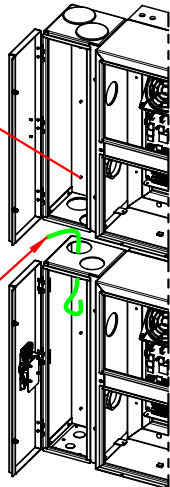


2

1

THREAD NUT (61620025), FOR GROUND CABLE. GROUND CABLE TO BE CONNECTED IN FIELD.

SECURE GROUND WITH NUT (61620025). SECURE CABLE TO INSIDE WALL OF DISPLAY CUBE WITH A TIE WRAP PAD (63101056) AND A TIE WRAP (63100008).



DETAIL B SCALE 1: 8

SPLIT SECTION WIRING										
Between Wx & Wy (Right Wireway)										
Name	From	Module No.	Name	Wire No.	Color	Length	To	Module No.	Name	Label (see Detail A)
Dturbo ¹ (128 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"		L1C1	PCB2-P8	98007601	
	L1C2	PCB6-P2	71241802	N/A	114"		L2C1	PCB2-P8	98007602	
	L1C2	PCB6-P3	71241803	N/A	138"		L3C1	PCB2-P8	98007603	
	L1C2	PCB6-P4	71241805	N/A	162"		L4C1	PCB2-P8	98007604	
	L1C2	PCB6-P5	71241805	N/A	162"		L4Wx	H3	98007605	
	L1C2	PCB6-P6	71241805	N/A	162"		L4Wx	H3	98007606	
	L1C2	PCB6-P7	71241805	N/A	162"		L4Wx	H3	98007607	
	L1C2	PCB6-P8	71241805	N/A	162"		L4Wx	H3	98007608	
	L5Wy	H3	71240901	N/A	40"		L5C1	PCB2-P8	98007605	
	L5Wy	H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
	L5Wy	H3	71240902	N/A	90"		L7C1	PCB2-P8	98007607	
	L5Wy	H3	71241802	N/A	114"		L8C1	PCB2-P8	98007608	
Dturbo ¹ (112 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"		L1C1	PCB2-P8	98007601	
	L1C2	PCB6-P2	71241802	N/A	114"		L2C1	PCB2-P8	98007602	
	L1C2	PCB6-P3	71241803	N/A	138"		L3C1	PCB2-P8	98007603	
	L1C2	PCB6-P4	71241805	N/A	162"		L4C1	PCB2-P8	98007604	
	L1C2	PCB6-P5	71241805	N/A	162"		L4Wx	H3	98007605	
	L1C2	PCB6-P6	71241805	N/A	162"		L4Wx	H3	98007606	
	L1C2	PCB6-P7	71241805	N/A	162"		L4Wx	H3	98007607	
	L5Wy	H3	71240901	N/A	40"		L5C1	PCB2-P8	98007605	
	L5Wy	H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
	L5Wy	H3	71240902	N/A	90"		L7C1	PCB2-P8	98007607	
	L5Wy	H3	71241802	N/A	114"		L8C1	PCB2-P8	98007608	
	Dturbo ¹ (96 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"		L1C1	PCB2-P8	98007601
L1C2		PCB6-P2	71241802	N/A	114"		L2C1	PCB2-P8	98007602	
L1C2		PCB6-P3	71241803	N/A	138"		L3C1	PCB2-P8	98007603	
L1C2		PCB6-P4	71241803	N/A	138"		L3Wx	H3	98007604	
L1C2		PCB6-P5	71241803	N/A	138"		L3Wx	H3	98007605	
L1C2		PCB6-P6	71241803	N/A	138"		L3Wx	H3	98007606	
L4Wy		H3	71240901	N/A	40"		L4C1	PCB2-P8	98007604	
L4Wy		H3	71240902	N/A	90"		L5C1	PCB2-P8	98007605	
L4Wy		H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
L4Wy		H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
L4Wy		H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
Between Wx & Wy (Left Wireway)										
Name	From	Module No.	Name	Wire No.	Color	Length	To	Module No.	Name	Label (see Detail A)
Dturbo ¹ (128 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"		L1C1	PCB2-P8	98007601	
	L1C2	PCB6-P2	71240902	N/A	90"		L2C1	PCB2-P8	98007602	
	L1C2	PCB6-P3	71241802	N/A	114"		L3C1	PCB2-P8	98007603	
	L1C2	PCB6-P4	71241803	N/A	138"		L4C1	PCB2-P8	98007604	
	L1C2	PCB6-P5	71241803	N/A	138"		L4Wx	H3	98007605	
	L1C2	PCB6-P6	71241803	N/A	138"		L4Wx	H3	98007606	
	L1C2	PCB6-P7	71241803	N/A	138"		L4Wx	H3	98007607	
	L1C2	PCB6-P8	71241803	N/A	138"		L4Wx	H3	98007608	
	L5Wy	H3	71240901	N/A	40"		L5C1	PCB2-P8	98007605	
	L5Wy	H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
	L5Wy	H3	71240902	N/A	90"		L7C1	PCB2-P8	98007607	
	L5Wy	H3	71241802	N/A	114"		L8C1	PCB2-P8	98007608	
Dturbo ¹ (112 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"		L1C1	PCB2-P8	98007601	
	L1C2	PCB6-P2	71240902	N/A	90"		L2C1	PCB2-P8	98007602	
	L1C2	PCB6-P3	71241802	N/A	114"		L3C1	PCB2-P8	98007603	
	L1C2	PCB6-P4	71241803	N/A	138"		L4C1	PCB2-P8	98007604	
	L1C2	PCB6-P5	71241803	N/A	138"		L4Wx	H3	98007605	
	L1C2	PCB6-P6	71241803	N/A	138"		L4Wx	H3	98007606	
	L1C2	PCB6-P7	71241803	N/A	138"		L4Wx	H3	98007607	
	L5Wy	H3	71240901	N/A	40"		L5C1	PCB2-P8	98007605	
	L5Wy	H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
	L5Wy	H3	71240902	N/A	90"		L7C1	PCB2-P8	98007607	
	L5Wy	H3	71241802	N/A	114"		L8C1	PCB2-P8	98007608	
	Dturbo ¹ (96 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"		L1C1	PCB2-P8	98007601
L1C2		PCB6-P2	71240902	N/A	90"		L2C1	PCB2-P8	98007602	
L1C2		PCB6-P3	71241802	N/A	114"		L3C1	PCB2-P8	98007603	
L1C2		PCB6-P4	71241803	N/A	138"		L3Wx	H3	98007604	
L1C2		PCB6-P5	71241803	N/A	138"		L3Wx	H3	98007605	
L1C2		PCB6-P6	71241803	N/A	138"		L3Wx	H3	98007606	
L4Wy		H3	71240901	N/A	40"		L4C1	PCB2-P8	98007604	
L4Wy		H3	71240902	N/A	90"		L5C1	PCB2-P8	98007605	
L4Wy		H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
L4Wy		H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	
L4Wy		H3	71240902	N/A	90"		L6C1	PCB2-P8	98007606	

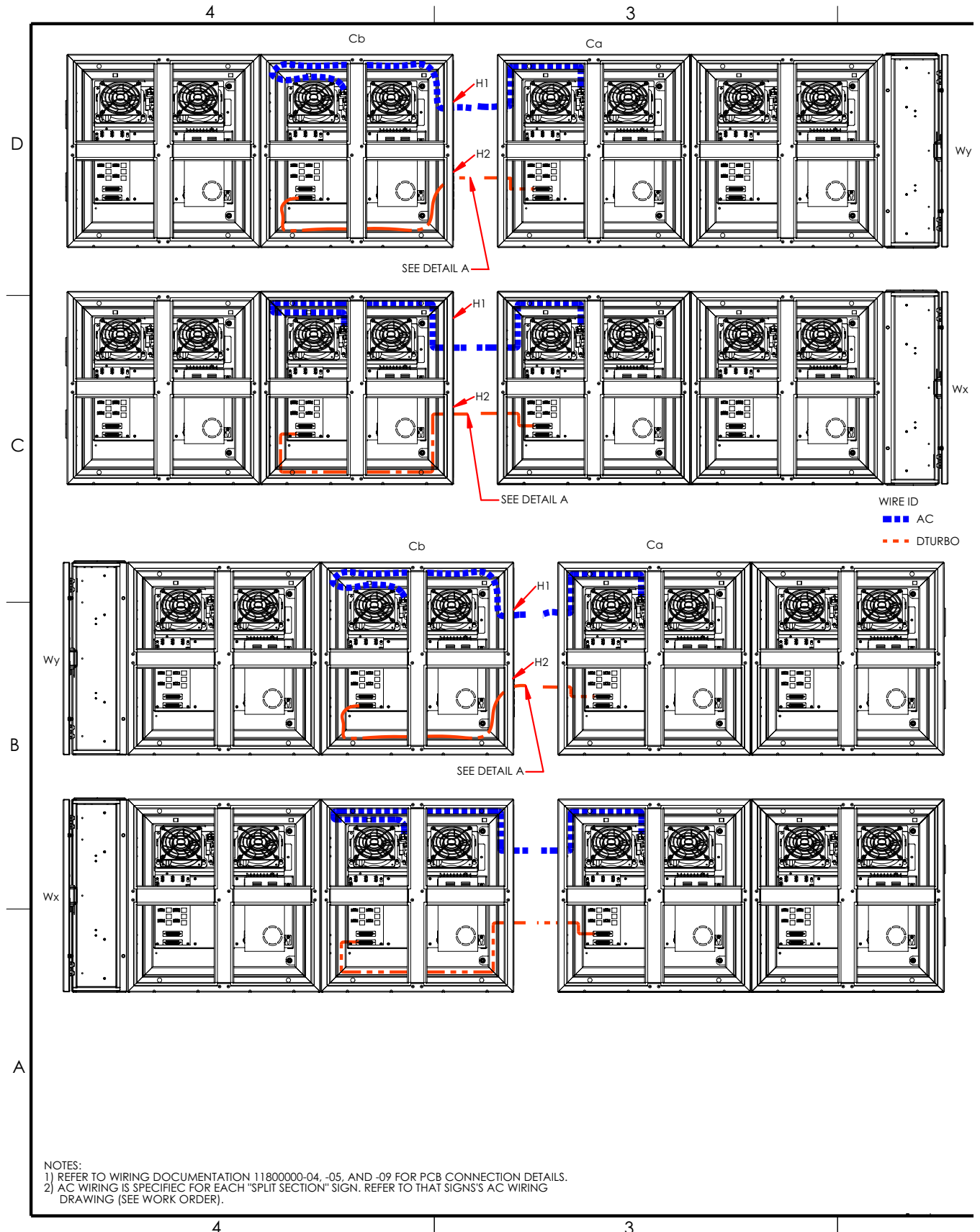
1 - NOTE: USE TOTAL SIGN HEIGHT.

DIMENSIONS ARE IN INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED: X ±0.1 XX ±0.02 XXX ±0.005 ANGLES ±1°		ADAPTIVE Adaptive Micro Systems LLC 7840 North 56th Street Milwaukee, WI 53224 USA	
DRAWN BY: SSL DATE: 12/2/03		TITLE: P1180, MULTI-SECTION, HORIZONTAL SPLIT ASSEMBLY	
CHECKED BY:		SIZE: C DOCUMENT NO. 11800000-16 REVISION: A	
APPROVED BY:		SCALE: 1:8 STATUS: Released SHEET: 1 of 1	
A RELEASED FOR PRODUCTION	ECO BY: SSL DATE: 12/2/03	THIS DRAWING IS THE PROPERTY OF ADAPTIVE MICRO SYSTEMS LLC AND SHALL NOT BE DUPLICATED WITHOUT PERMISSION.	

2

1

Multiple section sign, vertical/horizontal split (sheet 1 of 2)



2

1


SPLIT SECTION WIRING								
Between Wx & Wy (Right Wireway)								
Name	From			Via			To	
	Module No.	Name	Wire No.	Color	Length	Module No.	Name	Label (see Detail A)
Dturbo ¹ (128 pixel total height)	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241805	N/A	162"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241805	N/A	162"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241805	N/A	162"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241805	N/A	162"	L4Wx	H3	98007607
	L1C2	PCB6-P8	71241805	N/A	162"	L4Wx	H3	98007608
Dturbo ¹ (112 pixel total height)	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
	L5Wy	H3	71241802	N/A	114"	L8C1	PCB2-P8	98007608
	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241805	N/A	162"	L4C1	PCB2-P8	98007604
Dturbo ¹ (96 pixel total height)	L1C2	PCB6-P5	71241805	N/A	162"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241805	N/A	162"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241805	N/A	162"	L4Wx	H3	98007607
	L1C2	PCB6-P1	71240901	N/A	40"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71241802	N/A	114"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241803	N/A	138"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L3Wx	H3	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L3Wx	H3	98007605
L4Wy	H3	71240901	N/A	40"	L4C1	PCB2-P8	98007604	
L4Wy	H3	71240902	N/A	90"	L5C1	PCB2-P8	98007605	
L4Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606	

SPLIT SECTION WIRING								
Between Wx & Wy (Left Wireway)								
Name	From			Via			To	
	Module No.	Name	Wire No.	Color	Length	Module No.	Name	Label (see Detail A)
Dturbo ¹ (128 pixel total height)	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L4C1	PCB2-P8	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241803	N/A	138"	L4Wx	H3	98007607
	L1C2	PCB6-P8	71241803	N/A	138"	L4Wx	H3	98007608
Dturbo ¹ (112 pixel total height)	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
	L5Wy	H3	71241802	N/A	114"	L8C1	PCB2-P8	98007608
	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L4C1	PCB2-P8	98007604
Dturbo ¹ (96 pixel total height)	L1C2	PCB6-P5	71241803	N/A	138"	L4Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L4Wx	H3	98007606
	L1C2	PCB6-P7	71241803	N/A	138"	L4Wx	H3	98007607
	L5Wy	H3	71240901	N/A	40"	L5C1	PCB2-P8	98007605
	L5Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606
	L5Wy	H3	71240902	N/A	90"	L7C1	PCB2-P8	98007607
	L1C2	PCB6-P1	71241810	N/A	52"	L1C1	PCB2-P8	98007601
	L1C2	PCB6-P2	71240902	N/A	90"	L2C1	PCB2-P8	98007602
Dturbo ¹ (96 pixel total height)	L1C2	PCB6-P3	71241802	N/A	114"	L3C1	PCB2-P8	98007603
	L1C2	PCB6-P4	71241803	N/A	138"	L3Wx	H3	98007604
	L1C2	PCB6-P5	71241803	N/A	138"	L3Wx	H3	98007605
	L1C2	PCB6-P6	71241803	N/A	138"	L3Wx	H3	98007606
	L4Wy	H3	71240901	N/A	40"	L4C1	PCB2-P8	98007604
	L4Wy	H3	71240902	N/A	90"	L5C1	PCB2-P8	98007605
	L4Wy	H3	71240902	N/A	90"	L6C1	PCB2-P8	98007606

1 - NOTE: USE TOTAL SIGN HEIGHT.

SPLIT SECTION WIRING								
Between Ca & Cb (Left Wireway)								
Name	From			Via			To	
	Module No.	Name	Wire No.	Color	Length	Module No.	Name	
AC	LxCb	PCB1-P2	71120304	N/A	24"	LxCb	H1	
	LxCb	AP-TB1-B1	71120301	BLK	50"	LxCb	H1	
		AP-TB1-B2		WHT				
LxCb	AP-TB1-B3	71120301	GRN	50"	LxCb	H1		
Dturbo	LxCa	PCB1-P1	71120302	N/A	62"	LxCa	H1	
	LxCb	PCB2-P8	71240901	N/A	40"	LxCb	H2	
Ground	LxCa	PCB2-P7	71240901	N/A	40"	LxCa	H2	
	LxCa	GND2	71120116	N/A	13"	LxCa	H2	

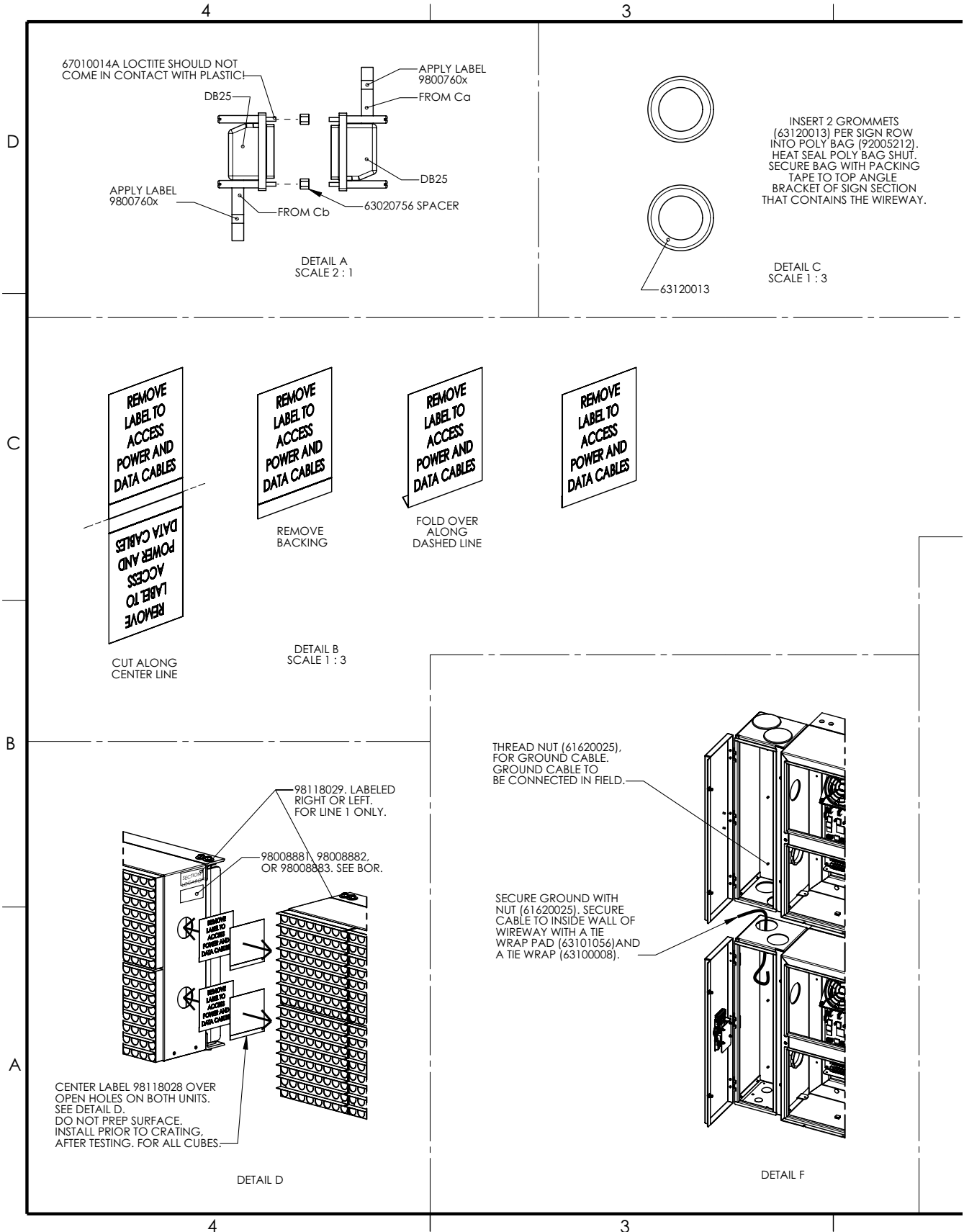
SPLIT SECTION WIRING								
Between Ca & Cb (Right Wireway)								
Name	From			Via			To	
	Module No.	Name	Wire No.	Color	Length	Module No.	Name	
AC	LxCa	PCB1-P1	71120304	N/A	24"	LxCa	H1	
	LxCa	AP-TB1-A1	71120301	BLK	50"	LxCa	H1	
		AP-TB1-A2		WHT				
LxCa	AP-TB1-A3	71120301	GRN	50"	LxCa	H1		
Dturbo	LxCb	PCB1-P2	71120302	N/A	62"	LxCb	H1	
	LxCb	PCB2-P8	71240901	N/A	40"	LxCb	H2	
Ground	LxCa	PCB2-P7	71240901	N/A	40"	LxCa	H2	
	LxCa	GND2	71120116	N/A	13"	LxCa	H2	

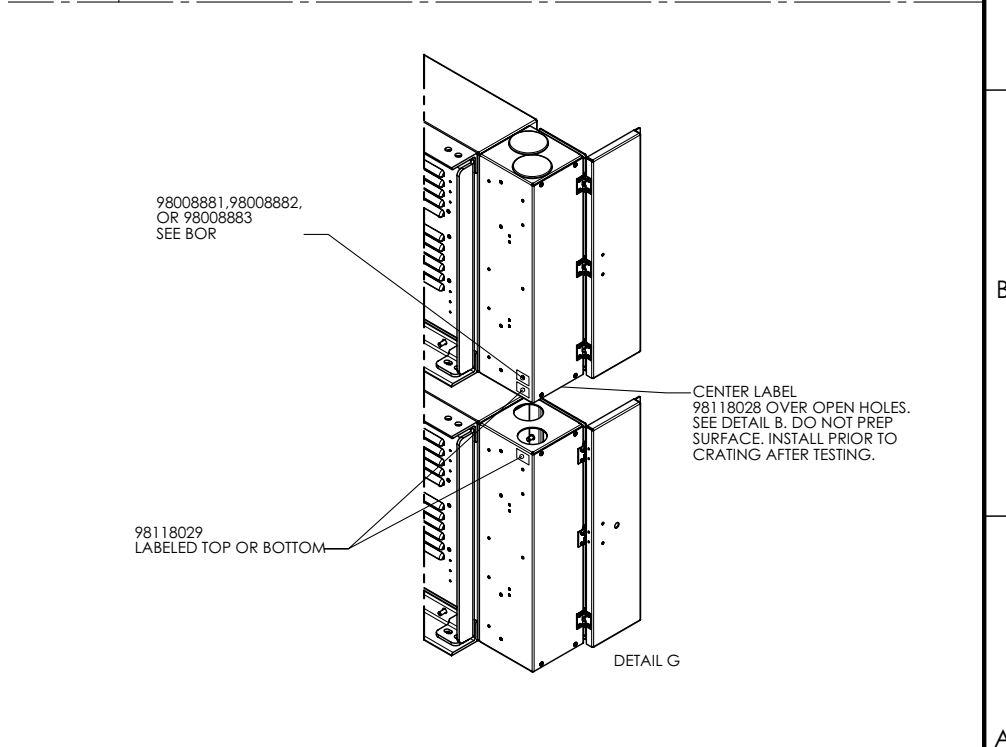
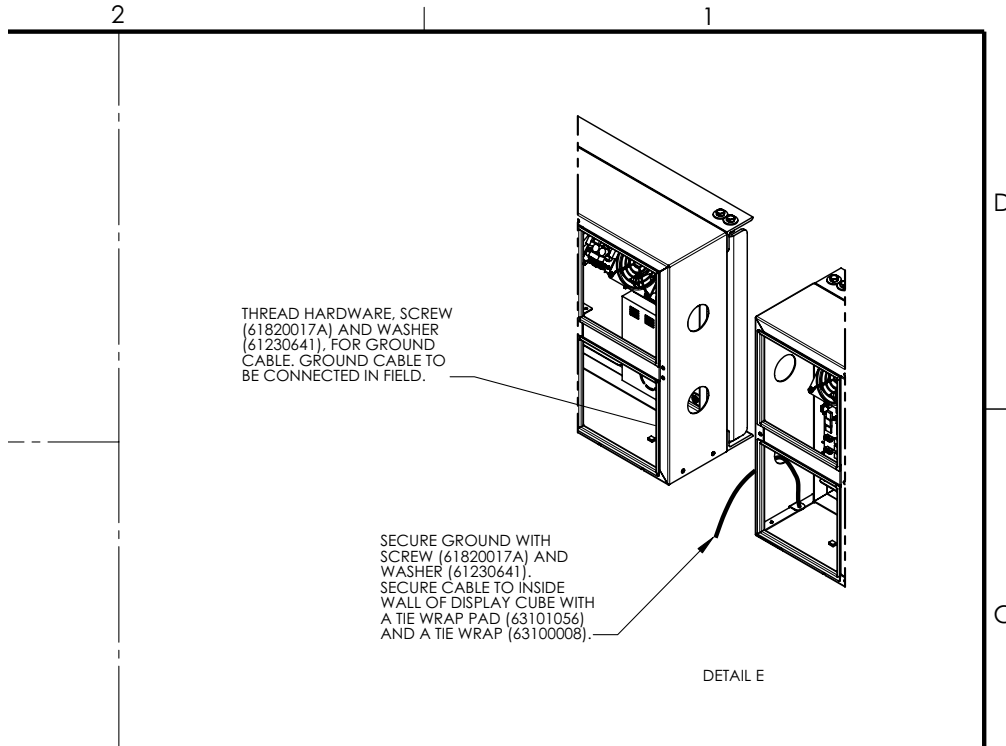
DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED				 7840 North 84th Street Milwaukee, WI 53224 USA			
.X	±0.1			TITLE: P1180, MULTI-SECTION, VERT/HOR SPLIT ASSEMBLY			
.XX	±0.02			SIZE: C DOCUMENT NO. 11800000-17 REVISION A			
.XXX	±0.005			SCALE: 1:8 STATUS: Released SHEET 1 of 2			
ANGLES	±1°			THIS DRAWING IS THE PROPERTY OF ADAPTIVE MICRO SYSTEMS LLC AND SHALL NOT BE DUPLICATED WITHOUT PERMISSION			
DRAWN BY	DATE	CHECKED BY	DATE				
SSL	12/2/03						
APPROVED BY	DATE						
REV. A	RELEASED FOR PRODUCTION	ECO	BY	DATE			
				12/2/03			

2

1

Multiple section sign, vertical/horizontal split (sheet 2 of 2)





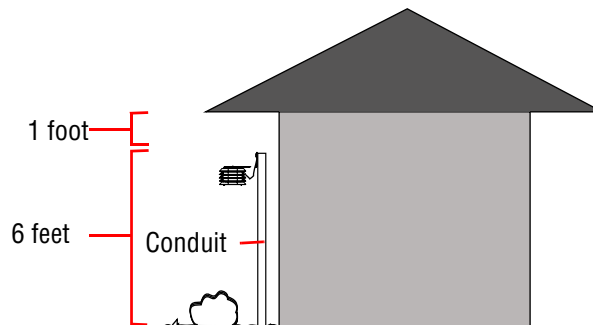
DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED		ADAPTIVE Adaptive Micro Systems LLC 7840 North 86th Street Milwaukee, WI 53224 USA			
X	±0.1	TITLE P1180, MULTI-SECTION, VERT/HOR SPLIT ASSEMBLY			
.XX	±0.02	SIZE	DOCUMENT NO.	REVISION	
.XXX	±0.005	C	11800000-17	A	
ANGLES	±1°	SCALE:	STATUS:	SHT	2 of 2
DRAWN BY SSL	DATE 11/25/03	1:8	Released		
CHECKED BY	DATE	THIS DRAWING IS THE PROPERTY OF ADAPTIVE MICRO SYSTEMS LLC AND SHALL NOT BE DUPLICATED WITHOUT PERMISSION			
APPROVED BY	DATE				

Temperature probe mounting

Mounting guidelines

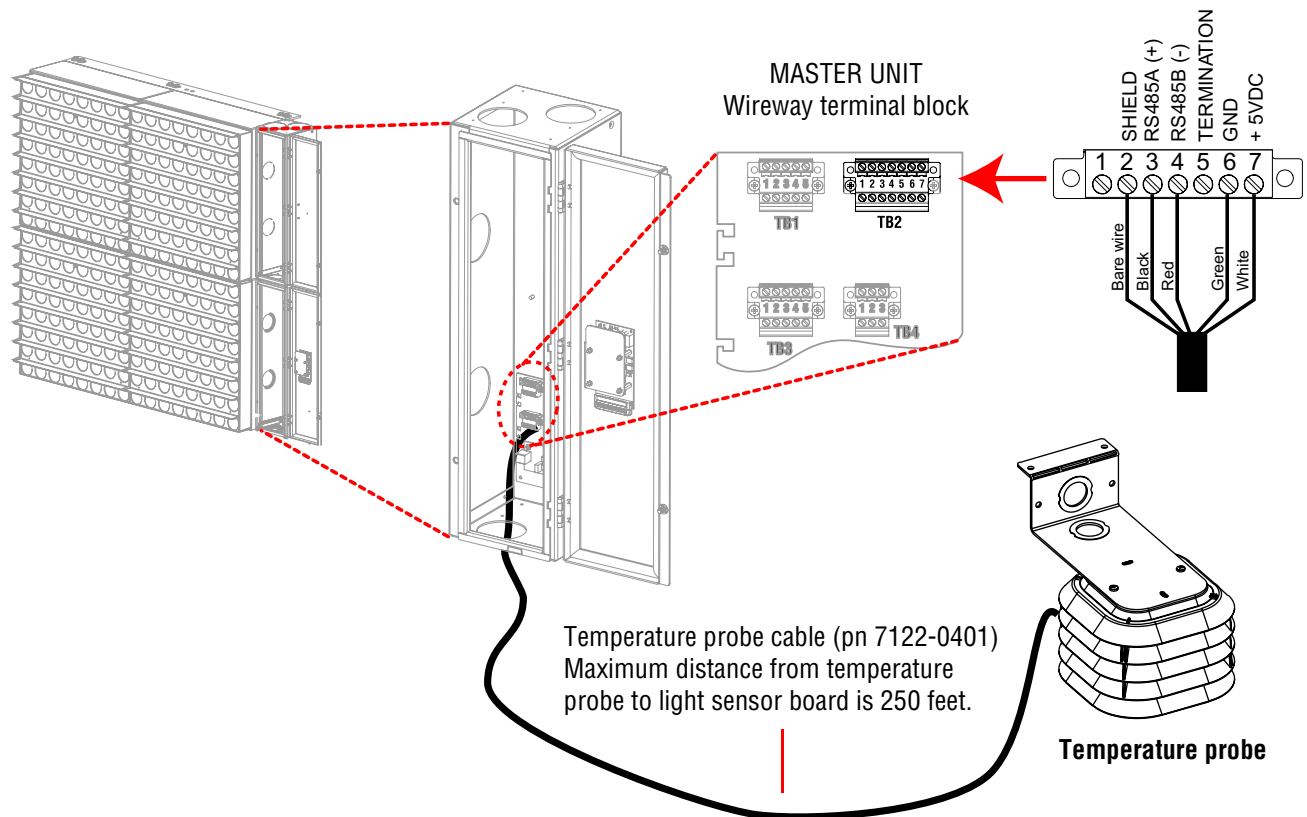
The picture below is an example of how the temperature probe *should* be mounted:

- Shielded from sun
- Located on north side of building
- Air movement not restricted
- Above vegetation

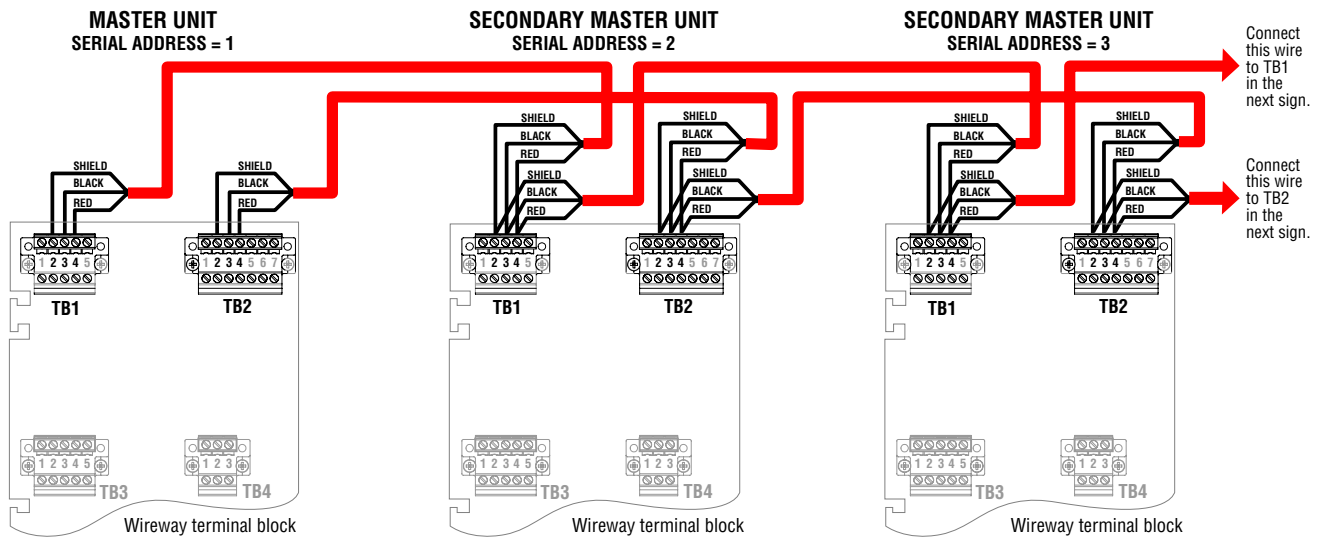


Installation

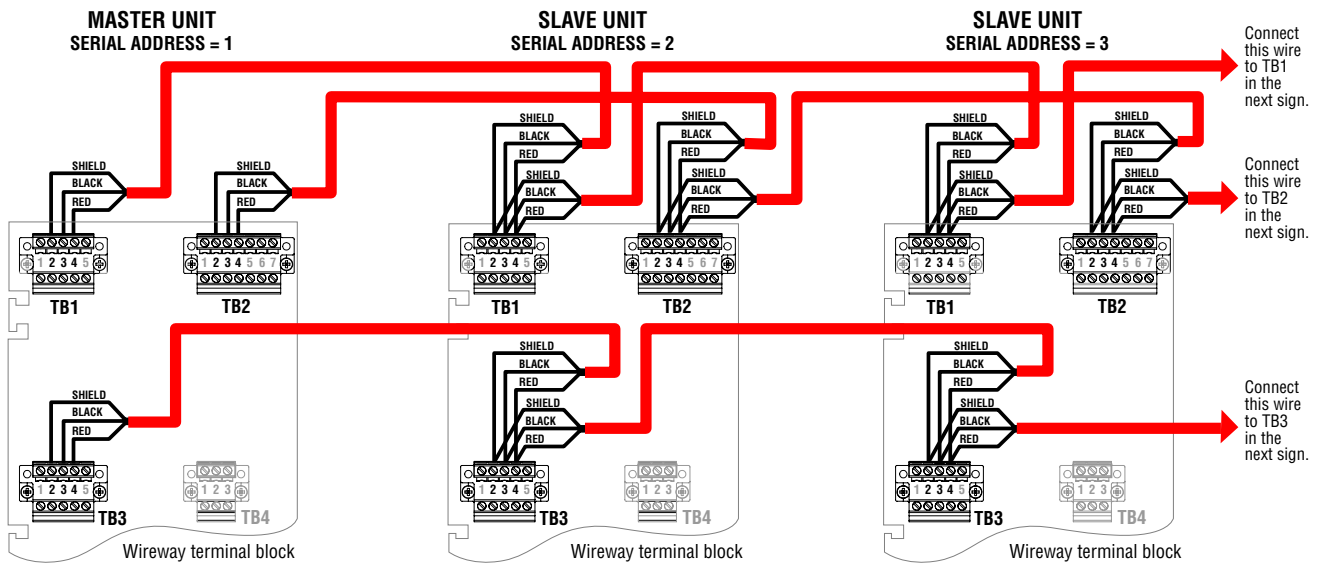
1. Mount the temperature probe as shown above.
2. Run the temperature probe cable into the wireway of the MASTER UNIT.
NOTE: The temperature probe cable and the sign's power wires should be run in different conduits.
3. Connect the temperature probe cable to TB2 on the wireway terminal block as shown below.
4. Close the wireway securely with the screws provided.



MASTER / SECONDARY MASTER sign-to-sign wiring for 3 or more signs



MASTER / SLAVE sign-to-sign wiring for 3 or more signs



Installer Instructions for AlphaEclipse 3600 Signs (Series B)
(Form number 9711-8028A, January 31, 2005)

Instructions for the *Sign Installer*

ADAPTIVE[®]
Adaptive Micro Systems LLC



© Copyright 2004-2005 Adaptive Micro Systems LLC. All rights reserved.
Adaptive Micro Systems, 7840 North 86th Street, Milwaukee, WI 53224 USA
414-357-2020, 414-357-2029 (fax), <http://www.adaptivedisplays.com>

Trademarked names appear throughout this document. Rather than list the names and entities that own the trademarks or insert a trademark symbol with each mention of the trademarked name, the publisher states that it is using names for editorial purposes and to the benefit of the trademark owner with no intention of improperly using the trademark. The following are trademarks of Adaptive Micro Systems: Adaptive, Alpha, AlphaLert, AlphaNET, AlphaNet plus, AlphaEclipse, AlphaEclipse RoadStar, AlphaPremiere, AlphaTicker, AlphaVision, AlphaVision InfoTracker, Automode, BetaBrite, BetaBrite Director, BetaBrite Messaging Software, Big Dot, Director, EZ KEY II, EZ95, PagerNET, PPD, PrintPak, Serial Clock, Smart Alec, Solar, TimeNet.

The distinctive trade dress of this product is a trademark claimed by Adaptive Micro Systems LLC. Due to continuing product innovation, specifications in this manual are subject to change without notice.