



AGSB-L LED Airfield Guidance Sign  
ICAO/TP 312

## Spare Parts

SP\_3060, Rev. B, 2022/05/17

  
**ADB  
SAFEGATE**



## A.0 Disclaimer / Standard Warranty

### CE certification

The equipment listed as CE certified means that the product complies with the essential requirements concerning safety and hygiene. The European directives that have been taken into consideration in the design are available on written request to ADB SAFEGATE.

### ETL certification

The equipment listed as ETL certified means that the product complies with the essential requirements concerning safety and FAA Airfield regulations. The FAA directives that have been taken into consideration in the design are available on written request to ADB SAFEGATE.

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Products manufactured by ADB SAFEGATE are guaranteed against mechanical, electrical, and physical defects (excluding lamps) which may occur during proper and normal use for a period of two years from the date of ex-works delivery, and are guaranteed to be merchantable and fit for the ordinary purposes for which such products are made.



#### Note

See your sales order contract for a complete warranty description.

Replaced or repaired equipment under warranty falls into the warranty of the original delivery. No new warranty period is started for these replaced or repaired products.

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ADB SAFEGATE L858 Airfield Guidance Signs are warranted against mechanical and physical defects in design or manufacture for a period of 2 years from date of installation, per FAA AC 150/5345-44 (applicable edition).

ADB SAFEGATE LED products (with the exception of obstruction lighting) are warranted against electrical defects in design or manufacture of the LED or LED specific circuitry for a period of 4 years from date of installation, per FAA EB67 (applicable edition). These FAA certified constant current (series) powered LED products must be installed, interfaced and powered with and through products certified under the FAA Airfield Lighting Equipment Program (ALECP) to be included in this 4 (four) year warranty. This includes, but is not limited to, interface with products such as Base Cans, Isolation Transformers, Connectors, Wiring, and Constant Current Regulators.

**Note**

See your sales order contract for a complete warranty description.

Replaced or repaired equipment under warranty falls into the warranty of the original delivery. No new warranty period is started for these replaced or repaired products.

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**Liability**

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**WARNING**

Use of the equipment in ways other than described in the catalog leaflet and the manual may result in personal injury, death, or property and equipment damage. Use this equipment only as described in the manual.

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ADB SAFEGATE cannot be held responsible for injuries or damages resulting from non-standard, unintended uses of its equipment. The equipment is designed and intended only for the purpose described in the manual. Uses not described in the manual are considered unintended uses and may result in serious personal injury, death or property damage.

Unintended uses, includes the following actions:

- Making changes to equipment that have not been recommended or described in this manual or using parts that are not genuine ADB SAFEGATE replacement parts or accessories.
- Failing to make sure that auxiliary equipment complies with approval agency requirements, local codes, and all applicable safety standards if not in contradiction with the general rules.
- Using materials or auxiliary equipment that are inappropriate or incompatible with your ADB SAFEGATE equipment.
- Allowing unskilled personnel to perform any task on or with the equipment.

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# 1.0 Safety

## Introduction to Safety






This section contains general safety instructions for installing and using ADB SAFEGATE equipment. Some safety instructions may not apply to the equipment in this manual. Task- and equipment-specific warnings are included in other sections of this manual where appropriate.

## 1.1 Safety Messages


### HAZARD Icons used in the manual

For all HAZARD symbols in use, see the Safety section. All symbols must comply with ISO and ANSI standards.

Carefully read and observe all safety instructions in this manual, which alert you to safety hazards and conditions that may result in personal injury, death or property and equipment damage and are accompanied by the symbol shown below.

	<b>WARNING</b> Failure to observe a warning may result in personal injury, death or equipment damage.
	<b>DANGER - Risk of electrical shock or ARC FLASH</b> Disconnect equipment from line voltage. Failure to observe this warning may result in personal injury, death, or equipment damage. ARC Flash may cause blindness, severe burns or death.
	<b>WARNING - Wear personal protective equipment</b> Failure to observe may result in serious injury.
	<b>WARNING - Do not touch</b> Failure to observe this warning may result in personal injury, death, or equipment damage.
	<b>CAUTION</b> Failure to observe a caution may result in equipment damage.

### Qualified Personnel

	<b>Important Information</b> The term <b>qualified personnel</b> is defined here as individuals who thoroughly understand the equipment and its safe operation, maintenance and repair. Qualified personnel are physically capable of performing the required tasks, familiar with all relevant safety rules and regulations and have been trained to safely install, operate, maintain and repair the equipment. It is the responsibility of the company operating this equipment to ensure that its personnel meet these requirements. Always use required personal protective equipment (PPE) and follow safe electrical work practice.
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### 1.1.1 Introduction to Safety



## CAUTION

### Unsafe Equipment Use

This equipment may contain electrostatic devices, hazardous voltages and sharp edges on components

- Read installation instructions in their entirety before starting installation.
- Become familiar with the general safety instructions in this section of the manual before installing, operating, maintaining or repairing this equipment.
- Read and carefully follow the instructions throughout this manual for performing specific tasks and working with specific equipment.
- Make this manual available to personnel installing, operating, maintaining or repairing this equipment.
- Follow all applicable safety procedures required by your company, industry standards and government or other regulatory agencies.
- Install all electrical connections to local code.
- Use only electrical wire of sufficient gauge and insulation to handle the rated current demand. All wiring must meet local codes.
- Route electrical wiring along a protected path. Make sure they will not be damaged by moving equipment.
- Protect components from damage, wear, and harsh environment conditions.
- Allow ample room for maintenance, panel accessibility, and cover removal.
- Protect equipment with safety devices as specified by applicable safety regulations
- If safety devices must be removed for installation, install them immediately after the work is completed and check them for proper functioning prior to returning power to the circuit.

**Failure to follow this instruction can result in serious injury or equipment damage**

### Additional Reference Materials

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#### Important Information

- IEC - International Standards and Conformity Assessment for all electrical, electronic and related technologies.
  - IEC 60364 - Electrical Installations in Buildings.
  - FAA Advisory: AC 150/5340-26 (current edition), Maintenance of Airport Visual Aid Facilities.
  - Maintenance personnel must refer to the maintenance procedure described in the ICAO Airport Services Manual, Part 9.
  - ANSI/NFPA 79, Electrical Standards for Metalworking Machine Tools.
  - National and local electrical codes and standards.
-

## 2.0 Introduction

These signs are designed to guide pilots to a particular point on the field, identify holding positions, identify taxiway and runway intersections, and prohibit aircraft entry into designated areas.



TP 312 LED Sign

ICAO LED Sign

### 2.1 LED Light Bar Airfield Guidance Sign

#### Compliance with Standards

ICAO:	Annex 14, Volume I, para 5.4 and Appendix 4
T/C:	Transport Canada TP 312

#### Uses

On Civil Airfields:

- Mandatory instruction signs
- Information signs
- VOR check-point sign

On Military Airbases:

- Mandatory instruction signs
- Information signs
- VOR check-point sign
- Runway distance-to-go signs
- Arrestor barrier signs

**Mandatory signs** - are used to identify a location beyond which an authorization from the tower is required to proceed. They include road-, taxi- and Cat I, II and III holding position signs, runway designation signs and "NO ENTRY" signs. They have white legends on red background.

**Information signs** - are all the other signs (except runway distance signs) providing information on routing (direction or destination) and on location. Information signs have black lettering on yellow background, except location signs. Location signs have a yellow legend on a black background. The message on stand-alone location signs is surrounded by a yellow border.

#### Operating Conditions

The taxiway and runway signs are designed for continuous outdoor use under the conditions presented below for operating temperature range, humidity, and wind.

Temperature:	-55 °F to +131 °F (-55 °C to +55 °C)
Humidity:	0 to 100%
Wind:	ADB Safegate standard signs withstand a wind loading of 320 km/h (200 mph) and break before the wind loading reaches 480 km/h (300 mph).

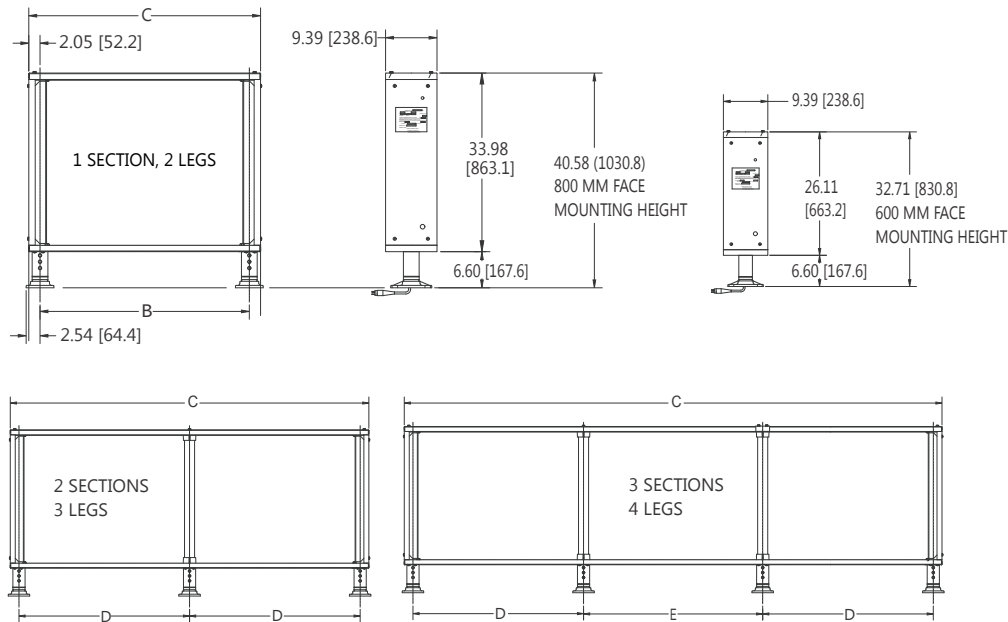
## Electrical Supply

Signs are internally lit. The signs are connected to a series circuit using the appropriately-sized 50 or 60 Hz L-830/L-831 isolation transformer.

## Construction

Corrosion-resistant sign construction requires minimal maintenance. The sign uses aluminum housing, acrylic sign legend panels, stainless steel hardware, and translucent sheeting.

### Sign Dimensions - 600 mm and 800 mm Height (mm/in) - Standard mounting height shown.



Sign Type	Illuminated Face Length	B	C	D	E
<b>1 Section, 2 Legs</b>					
SBXA	700 mm	655.3 (25.90)	759.7 (29.92)	NA	NA
SBXB	900 mm	855.5 (33.68)	959.9 (37.79)	NA	NA
SBXC	1100 mm	1055.4 (41.55)	1159.8 (45.66)	NA	NA
SBXD	1300 mm	1255.3 (49.42)	1359.7 (53.53)	NA	NA
SBXE	1500 mm	1455.4 (57.30)	1559.8 (61.41)	NA	NA
<b>2 Section, 3 Legs</b>					
SBXF	1700 mm	NA	1759.7 (69.28)	827.7 (32.59)	NA
SBXG	1900 mm	NA	1959.7 (77.16)	927.7 (36.53)	NA
SBXH	2100 mm	NA	2159.7 (85.03)	1027.7 (40.26)	NA
SBXJ	2300 mm	NA	2359.7 (92.90)	1127.7 (44.40)	NA
SBXK	2500 mm	NA	2559.7 (100.78)	1227.7 (48.34)	NA
SBXL	2700 mm	NA	2759.7 (108.65)	1327.7 (52.27)	NA
SBXM	2900 mm	NA	2959.7 (116.53)	1427.7 (56.21)	NA

Sign Type	Illuminated Face Length	B	C	D	E
<b>3 Section, 4 Legs</b>					
SBXN	3300 mm	NA	3359.7 (132.27)	1077.7 (42.43)	1100.0 (43.31)
SBXP	3700 mm	NA	3636.5 (143.17)	1277.7 (50.30)	1100.0 (43.31)

## Sign Load & Transformer Requirements

In the table below, the number for the total VA load imposed on the CCR represents the actual load imposed on the regulator and accounts for power factor and load imposed by the transformer. For signs that require two transformers a wye connector 94A0173 (ordered separately) is required to connect the transformers in series. Load data are estimates for worst case scenario.

<b>600 mm and 800 mm Sign</b>				
Sign Type	Sign Length (mm)	Transformer	Power Factor	Volt Amp VA Load
<b>3-Step LED Signs (4.8 - 6.6 A)</b>				
SBXA	700	300 W	0.87	150
SBXB	900	300 W	0.86	168
SBXC	1100	300 W	0.87	118
SBXD	1300	300 W	0.88	132
SBXE	1500	300 W	0.84	150
SBXF	1700	300 W	0.84	150
SBXG	1900	300 W	0.84	150
SBXH	2100	300 W	0.87	180
SBXJ	2300	300 W	0.87	180
SBXK	2500	500 W	0.88	241
SBXL	2700	500 W	0.88	241
SBXM	2900	(2) 300 W	0.88	295
SBXN	3300	(2) 300 W	0.88	295
SBXP	3700	(2) 300 W	0.88	289

<b>600 mm and 800 mm Sign</b>				
Sign Type	Sign Length (mm)	Transformer	Power Factor	Volt Amp VA Load
<b>5-Step LED Signs (2.8 - 6.6 A)</b>				
SBXA	700	300 W	0.85	151
SBXB	900	300 W	0.84	168
SBXC	1100	300 W	0.83	119
SBXD	1300	300 W	0.84	134
SBXE	1500	300 W	0.84	148
SBXF	1700	300 W	0.84	148
SBXG	1900	300 W	0.84	148
SBXH	2100	500 W	0.84	184
SBXJ	2300	500 W	0.84	184
SBXK	2500	(2) 300 W	0.84	261

600 mm and 800 mm Sign				
Sign Type	Sign Length (mm)	Transformer	Power Factor	Volt Amp VA Load
SBXL	2700	(2) 300 W	0.84	261
SBXM	2900	(2) 300 W	0.84	291
SBXN	3300	(2) 300 W	0.84	291
SBXP	3700	(2) 500 W	0.84	299
600 mm and 800 mm Sign				
Sign Type	Sign Length (mm)	Transformer	Power Factor	Volt Amp VA Load
Single-Step LED Signs (5.5 A)				
SBXA	700	200 W	0.89	124
SBXB	900	300 W	0.87	135
SBXC	1100	300 W	0.82	103
SBXD	1300	300 W	0.88	121
SBXE	1500	300 W	0.87	135
SBXF	1700	300 W	0.87	135
SBXG	1900	300 W	0.87	135
SBXH	2100	300 W	0.88	168
SBXJ	2300	300 W	0.88	168
SBXK	2500	300 W	0.89	220
SBXL	2700	300 W	0.89	220
SBXM	2900	500 W	0.89	255
SBXN	3300	500 W	0.89	255
SBXP	3700	500 W	0.89	252

### Packaging Data (600 mm Signs)

Signs are shipped with L-823 cord set(s), frangible couplings, and mounting flanges - ready for installation.

Sign Type	Gross Assembled Weight								Carton Dimensions (h × w × d)	
	SB6X Standard Height		SBDX 1219 mm (48")		SBEX <sup>1</sup> 1524 mm (60")		SBFX <sup>1</sup> 1829 mm (72")			
	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(in)	(mm)
SBXA	64	29.0	69	31.3	75	34.0	79	35.8	36 × 37 × 13	914 × 950 × 330
SBXB	72	32.6	77	34.9	83	37.6	87	39.5	36 × 45 × 13	914 × 1150 × 330
SBXC	80	36.3	85	38.5	91	41.3	95	43.1	36 × 53 × 13	914 × 1350 × 330
SBXD	88	39.9	93	42.2	99	44.9	103	46.7	36 × 61 × 13	914 × 1550 × 330
SBXE	97	44.0	102	46.3	108	49.0	112	50.8	36 × 70 × 13	914 × 1750 × 330
SBXF	122	55.3	130	59.0	138	62.6	145	65.8	36 × 77 × 13	914 × 1950 × 330
SBXG	130	59.0	138	62.6	146	66.2	153	69.4	36 × 85 × 13	914 × 2150 × 330
SBXH	138	62.6	146	66.2	154	69.8	161	73.0	36 × 93 × 13	914 × 2350 × 330
SBXJ	146	66.2	154	68.9	162	73.5	169	76.6	36 × 100 × 13	914 × 2550 × 330
SBXK	153	69.4	161	73.0	169	76.6	176	79.8	36 × 108 × 13	914 × 2750 × 330



SBXL	161	73.0	169	76.6	177	80.3	184	83.5	36 × 116 × 13	914 × 2950 × 330
SBXM	169	76.6	177	80.3	185	83.9	192	87.1	36 × 124 × 13	914 × 3150 × 330
SBXN	203	92.1	213	96.6	225	102.0	233	101.1	36 × 140 × 13	914 × 3550 × 330
SBXP	220	99.8	230	104.3	242	109.8	250	113.4	36 × 156 × 13	914 × 3950 × 330

#### Notes

- 1219 mm (48 in) signs ship as 1295 mm (51 in) height.
  - 1524 mm (60 in) and 1829 mm (72 in) signs ship as standard height.
- <sup>1</sup> Shipped same carton size as standard height; legs enclosed separately; requires assembly.

#### Packaging Data (800 mm Signs)

Signs are shipped with L-823 cord set(s), frangible couplings, and mounting flanges - ready for installation.

Sign Type	Gross Assembled Weight								Carton Dimensions (h × w × d)	
	SB8X Standard Height		SBGX 1219 mm (48")		SBHX <sup>1</sup> 1524 mm (60")		SBJX <sup>1</sup> 1829 mm (72")		(in)	(mm)
	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)	(lb)	(kg)		
SBXA	72	32.6	77	34.9	83	37.6	87	39.5	43.5 X 37 X 13	1105 X 960 X 330
SBXB	82	37.0	87	39.5	93	42.2	97	44.0	43.5 X 45 X 13	1105 X 1150 X 330
SBXC	94	42.6	99	44.9	105	47.6	109	49.4	43.5 X 53 X 13	1105 X 1350 X 330
SBXD	104	47.0	109	49.4	115	52.2	119	54	43.5 X 61 X 13	1105 X 1550 X 330
SBXE	114	51.7	119	54.0	125	56.7	129	58.5	43.5 X 70 X 13	1105 X 1750 X 330
SBXF	136	61.7	144	65.3	152	68.9	159	72.1	43.5 X 77 X 13	1105 X 1950 X 330
SBXG	149	67.6	157	71.2	165	74.8	172	78.0	43.5 X 85 X 13	1105 X 2150 X 330
SBXH	161	73.0	169	76.7	177	80.3	184	83.5	43.5 X 93 X 13	1105 X 2350 X 330
SBXJ	173	78.5	181	82.1	189	85.7	196	88.9	43.5 X 100 X 13	1105 X 2550 X 330
SBXK	182	82.5	190	86.2	198	89.8	205	93.0	43.5 X 108 X 13	1105 X 2750 X 330
SBXL	193	87.5	201	91.2	209	94.8	216	98.0	43.5 X 116 X 13	1105 X 2950 X 330
SBXM	205	93.0	213	96.6	221	100.2	228	103.4	43.5 X 124 X 13	1105 X 3150 X 330
SBXN	242	110.0	252	114.3	264	119.7	272	123.4	43.5 X 140 X 13	1105 X 3550 X 330
SBXP	265	120.2	275	124.7	287	130.2	294	133.4	43.5 X 156 X 13	1105 X 3950 X 330

#### Notes

- 1219 mm (48 in) signs ship as 1295 mm (51 in) height.
  - 1524 mm (60 in) and 1829 mm (72 in) signs ship as standard height.
- <sup>1</sup> Shipped same carton size as standard height; legs enclosed separately; requires assembly.



## 3.0 ICAO Light Bar Sign Parts

### Ordering Code

SXXX - X X X 6 X X 0

#### Type

B = ICAO/TP 312 LED Light Bar

#### Sign Height<sup>1</sup>

6 = 600 mm standard height

8 = 800 mm standard height

D = 600 mm 48" (1219 mm) OAH<sup>2,3</sup>

E = 600 mm 60" (1524 mm) OAH<sup>2,3</sup>

F = 600 mm 72" (1829 mm) OAH<sup>2,3</sup>

G = 800 mm 48" (1219 mm) OAH<sup>2</sup>

H = 800 mm 60" (1524 mm) OAH<sup>2</sup>

J = 800 mm 72" (1829 mm) OAH<sup>2</sup>

#### Illuminated Face Length

A = 700 mm

B = 900 mm

C = 1100 mm

D = 1300 mm

E = 1500 mm

F = 1700 mm

G = 1900 mm

H = 2100 mm

J = 2300 mm

K = 2500 mm

L = 2700 mm

M = 2900 mm

N = 3300 mm

P = 3700 mm

#### Illumination

7 = Constant illumination from 2.8 to 6.6 A<sup>5</sup>

#### Face

1 = Single

2 = Double

#### Wind Rating

S = Standard (320 km/h, 200 mph)

6

#### Power

1 = Power through leg without ON/OFF switch

2 = Power through leg with ON/OFF switch

3 = Power through side without ON/OFF switch

4 = Power through side with ON/OFF switch

5 = Customer-provided entry without ON/OFF switch<sup>6</sup>

6 = Customer-provided entry with ON/OFF switch<sup>6</sup>

7 = Power through bottom without ON/OFF switch

8 = Power through bottom with ON/OFF switch

#### Tether

0 = No tether

1 = One tether on one end of sign<sup>4</sup>

2 = Two tethers, one on each end<sup>4</sup>

3 = One tether per leg<sup>4</sup>

0

### Ordering Code Notes

- Left/right designation determined when viewing secondary side of the sign
- Customer to provide legend information and power connection side. It is important to match power cord exit location with legend side.
- All signs are provided with an internal inspection window on the end of the sign.

<sup>1</sup> Standard character height for 600 mm sign is 300 mm. Standard character height for 800 mm sign is 400 mm. Customer to advise if different character height is needed.

<sup>2</sup> TP 312 standard configuration.

<sup>3</sup> Tether ordered separately. See 600 mm Tether Kit information.

<sup>4</sup> Option not available on all 48", 60" and 72" signs. For Canadian 600 mm applications, use Tether Kit 970724 -XX (ordered separately).

<sup>5</sup> Operates on 3-step and 5-step circuits.

<sup>6</sup> Cord set coiled up inside. Customer provides entry hole.

Legend Panel Replacement  
Ordering Code

Visible Face Height

6 = 600 mm  
8 = 800 mm

Visible Panel Width

07 = 700 mm  
09 = 900 mm  
11 = 1100 mm  
13 = 1300 mm  
15 = 1500 mm  
17 = 1700 mm  
19 = 1900 mm  
21 = 2100 mm  
23 = 2300 mm  
25 = 2500 mm  
27 = 2700 mm  
29 = 2900 mm  
33 = 3300 mm  
37 = 3700 mm

Panel Type

1 = With legend  
2 = Black (blank)

Wind Rating

0 = Standard

0

Note:

Customer to specify character height and legend information.

44A7433 - X X X X X 0

LED Light Engine Tester

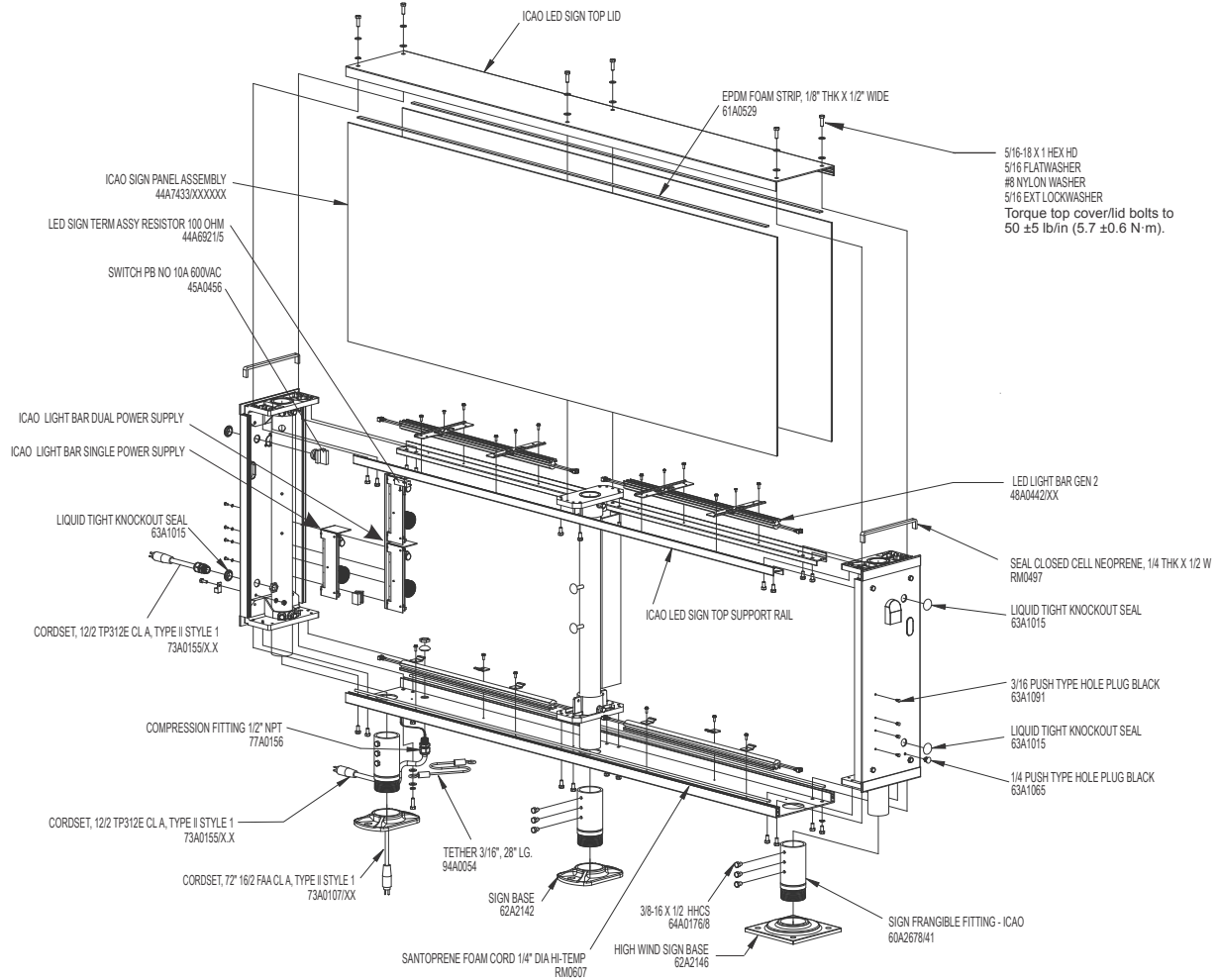
44A7264-1

Battery-powered tester is used during maintenance activities to separately test a single LED light bar. Uses four size D batteries and outputs 350 mA. Output is activated using a momentary switch.

Note: Tester can also be used on all ADB Safegate SB-type LED signs.

## 3.1 Parts Diagrams

Figure 1: ICAO LED Sign Assembly Parts



### Note

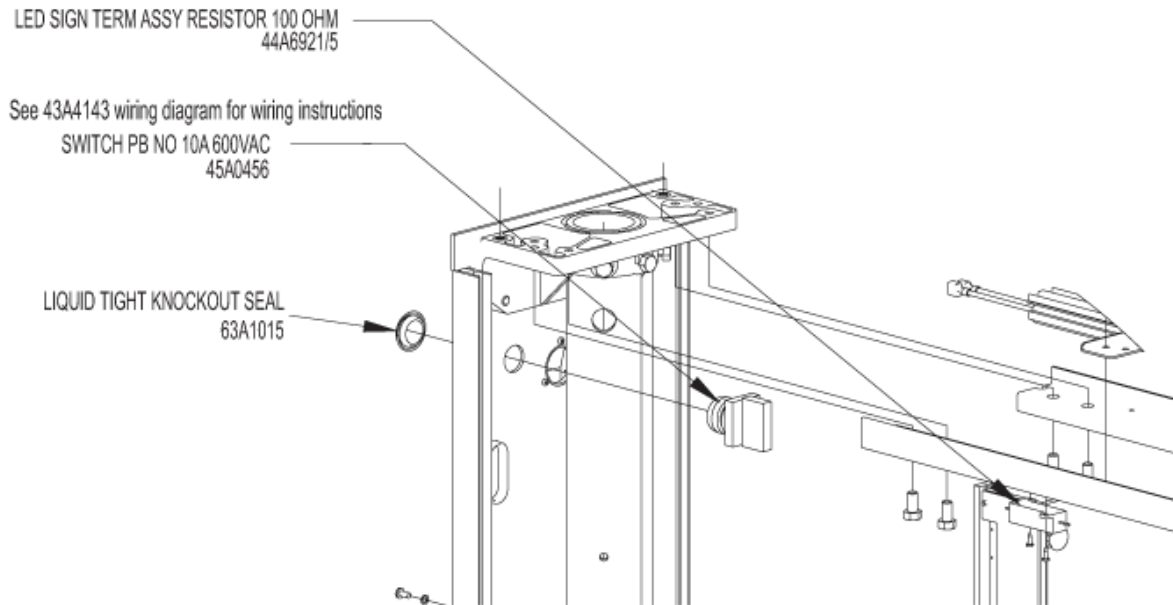
#### TORQUE ALL:

5/16-18 bolts to 115 ± 10 inch-pounds, (13 ± 1 N·m) (except: top cover lid bolts)

Torque 5/16-18 top cover lid bolts to 50 ± 5 lb/in (5.7 ± 0.6 N·m).

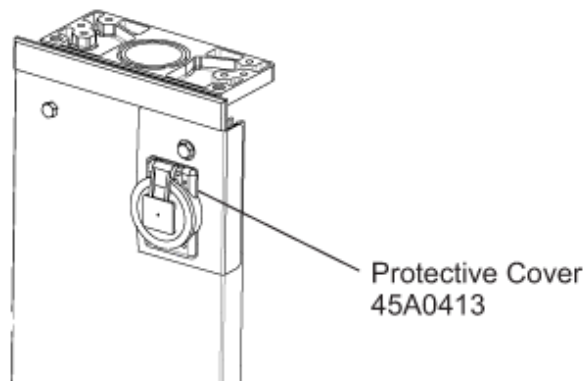
3/8-16 bolts to 200 ± 10 inch-pounds (22.6 ± 1 N·m)

**Figure 2: Switch and Resistor Close-up detail**



Order kit 94A0649/ICAONB for a factory installed cover for the ON/OFF switch. The cover protects from inadvertent operation of the button associated with heavy snow being piled or blown against the sign.

**Figure 3: ON/OFF Switch Protective Cover**



## 3.2 Spare Parts

Create a sufficiently large stock of spare parts to maintain the ICAO/TP312 LED Signs in the field. Consider acquiring approximately 10% of critical spare final assemblies (with a minimum quantity of one) for the total amount of equipment in the field. This allows for repairs to be made in the shop.

For the ICAO/TP312 LED Sign, see the tables below for spares.

- Consider acquiring 10% spares for critical components noted as (A) in the table below.

If only a small number of LED SIGN units are installed, consider acquiring at least one of each of the components noted as (A) below.

- For large installations also consider acquiring 1% spares for parts noted as (B) in the table below. If it is important to have a robust level of spare parts on-hand, and only a small number of LED Signs are installed, consider acquiring one of each of the components noted as (B) below.

**Table 1: ICAO/TP312 LED Sign Spare Parts**

Part Number	Description	Location	Notes	Spares
73A0107-XX	Cord set, L-823 (power through leg)	Figure 1	If Used	B
73A0155-X.X	Cord set, TP 312E, 12/2 SO cord, 2.5 m (other sign exit locations)	Figure 1	If Used	B
62A2142	Floor flange (2-bolt)	Figure 1		B
62A2146	Floor flange (4-bolt) <sup>2</sup>	Figure 1		B
48A0442-16	LED Light Bar, 16"	Figure 1		A
48A0442-24	LED Light Bar, 24"	Figure 1		A
48A0442-32	LED Light Bar, 32"	Figure 1		A
94A0054	Tether	Figure 1		B
60A2678/XX	Sign Frangible Coupling - ICAO 600 mm Sign, Standard <sup>2</sup>	Figure 9 and Figure 1	see Table 2 and Table 3	B
60AXXX/XX	Sign Frangible Coupling - ICAO 800 mm Sign, Standard <sup>2, 3, 4</sup>	Figure 9	see Table 4 and Table 5	B
44A7417/10	Dual Power Supply Assembly	Figure 1		A
44A7260/010	Single Power Supply Assembly <sup>5, 6, 7</sup>	Figure 1		A
44A6921/5	LED Sign Terminal Assembly Resistor 100 Ohm	Figure 2		B
45A0456	Switch Push Button, NO, 10 A, 600 VAC	Figure 2	If Used	B
RM0607	Foam Cord 1/4" Dia HI-Temp	Figure 1	Used in bottom sign panel channel; ordered by foot	B
61A0529	EPDM Foam Strip, 1/8 in Thick x 1/2 in Wide (top faces above sign panel)	Figure 1	ordered by foot	B
60A4323/XXX	Leg Extension	Figure 4		B
44A6921/5	Resistor assembly			B
44A7264-1	Light Bar Tester			B

**Notes**

<sup>1</sup> This installation drawing 117A0069 is available on the ADB Safegate website or you can request a copy from your sales representative.

<sup>2</sup> Refer to Table 2 through Table 5 for which floor flange is needed.

<sup>3</sup> Refer to drawing 117A0069, ICAO & TP312 installation detail, for frangible coupling and foot option specification.

<sup>4</sup> Apply 67A0105 LOCTITE anti-seize to all frangible coupling threads.

<sup>5</sup> 44A7260/010 single driver used on illuminated face length options "A" through "K"

<sup>6</sup> 44A7417/10 dual power supply assembly used on illuminated face length options "L" through "P"

<sup>7</sup> See Figure 13 and Figure 14 for configuration instruction

<sup>8</sup> RM0607 gaskets are cut to length and placed inside the channels along each side of the bottom panels

<sup>9</sup> 61A0529 gaskets are cut to length and affixed with the adhesive side along both inside corners of the sign top lid

**Table 2: 600 mm Face - Standard Height Sign Coupling**

Size Modules	Illuminated Face Length	Frangible Coupling	Mounting Flange
SBXA/, SIXA/	700 mm	60A2678/10	62A2142
SBXB/, SIXB/	900 mm	60A2678/10	62A2142
SBXC/, SIXC/	1100 mm	60A2678/60	62A2142
SBXD/, SIXD/	1300 mm	60A2678/60	62A2142
SBXE/, SIXE/	1500 mm	60A2678/20	62A2142
SBXF/, SIXF/	1700 mm	60A2678/60	62A2142
SBXG/, SIXG/	1900 mm	60A2678/20	62A2142
SBXH/, SIXH/	2100 mm	60A2678/20	62A2142
SBXJ/, SIXJ/	2300 mm	60A2678/30	62A2142
SBXK/, SIXK/	2500 mm	60A2678/30	62A2142
SBXL/, SIXL/	2700 mm	60A2678/30	62A2142
SBXM/, SIXM/	2900 mm	60A2678/30	62A2142
SBXN/, SIXN/	3300 mm	60A2678/30	62A2142
SBXP/, SIXP/	3700 mm	60A2678/40	62A2142

**Table 3: 600 mm FACE – 48"; 60"; 72" HEIGHT SIGN Coupling**

Size Modules	Illuminated Face Length	Frangible Coupling	Mounting Flange
SBXA/, SIXA/	700 mm	60A2678/60	62A2142
SBXB/, SIXB/	900 mm	60A2678/20	62A2142
SBXC/, SIXC/	1100 mm	60A2678/30	62A2142
SBXD/, SIXD/	1300 mm	60A2678/40	62A2142
SBXE/, SIXE/	1500 mm	60A2678/40	62A2142
SBXF/, SIXF/	1700 mm	60A2678/40	62A2142
SBXG/, SIXG/	1900 mm	60A2678/21	62A2146
SBXH/, SIXH/	2100 mm	60A2678/21	62A2146
SBXJ/, SIXJ/	2300 mm	60A2678/50	62A2146
SBXK/, SIXK/	2500 mm	60A2678/50	62A2146
SBXL/, SIXL/	2700 mm	60A2678/41	62A2146
SBXM/, SIXM/	2900 mm	60A2678/41	62A2146
SBXN/, SIXN/	3300 mm	60A2678/41	62A2146
SBXP/, SIXP/	3700 mm	60A2678/41	62A2146

**Table 4: 800 mm Face - Standard Height Sign Couplings**

Size Modules	Illuminated Face Length	Frangible Coupling	Mounting Flange
SBXA/, SIXA/	700 mm	60A2678/60	62A2142
SBXB/, SIXB/	900 mm	60A2678/20	62A2142
SBXC/, SIXC/	1100 mm	60A2678/20	62A2142
SBXD/, SIXD/	1300 mm	60A2678/30	62A2142
SBXE/, SIXE/	1500 mm	60A2678/40	62A2142

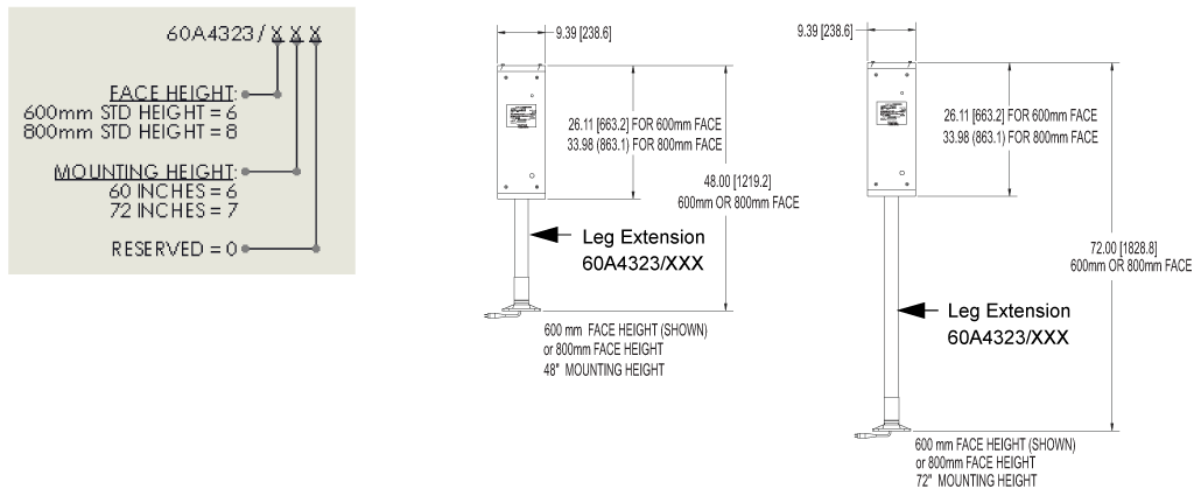


**Table 4: 800 mm Face - Standard Height Sign Couplings (Continued)**

Size Modules	Illuminated Face Length	Frangible Coupling	Mounting Flange
SBXF/, SIXF/	1700 mm	60A2678/30	62A2142
SBXG/, SIXG/	1900 mm	60A2678/40	62A2142
SBXH/, SIXH/	2100 mm	60A2678/21	62A2146
SBXJ/, SIXJ/	2300 mm	60A2678/21	62A2146
SBXK/, SIXK/	2500 mm	60A2678/50	62A2146
SBXL/, SIXL/	2700 mm	60A2678/50	62A2146
SBXM/, SIXM/	2900 mm	60A2678/50	62A2146
SBXN/, SIXN/	3300 mm	60A2678/50	62A2146
SBXP/, SIXP/	3700 mm	60A2678/50	62A2146

**Table 5: 800 mm Face - 48"; 60"; 72" Height Sign Couplings**

Size Modules	Illuminated Face Length	Frangible Coupling	Mounting Flange
SBXA/, SIXA/	700 mm	60A2678/20	62A2142
SBXB/, SIXB/	900 mm	60A2678/30	62A2142
SBXC/, SIXC/	1100 mm	60A2678/30	62A2142
SBXD/, SIXD/	1300 mm	60A2678/40	62A2142
SBXE/, SIXE/	1500 mm	60A2678/21	62A2146
SBXF/, SIXF/	1700 mm	60A2678/21	62A2146
SBXG/, SIXG/	1900 mm	60A2678/50	62A2146
SBXH/, SIXH/	2100 mm	60A2678/50	62A2146
SBXJ/, SIXJ/	2300 mm	60A2678/41	62A2146
SBXK/, SIXK/	2500 mm	60A2678/41	62A2146
SBXL/, SIXL/	2700 mm	60A2678/41	62A2146
SBXM/, SIXM/	2900 mm	60A2678/41	62A2146
SBXN/, SIXN/	3300 mm	60A2678/41	62A2146
SBXP/, SIXP/	3700 mm	60A2678/41	62A2146

**Figure 4: Leg Extensions**


**Table 6: Cordset Usage**

DIGIT 3 - HEIGHT		DIGIT 9 - POWER	
6, 8, D, E, F, G, H, J	Sign Height	1, 2 THRU LEG	3, 4, 5, 6, 7, 8 SIDE, BOTTOM, CUSTOMER PROVIDED
SB6X	600 mm Standard	73A0107/72	73A0155/1.5
SB8X	800 mm Standard	73A0107/72	73A0155/1.5
SBDX	600 mm 48" (1219 mm) OAH	73A0107/72	73A0155/1.5
SBEX	600 mm 60" (1524 mm) OAH	73A0107/98	73A0155/2.5
SBFX	600 mm 72" (1829 mm) OAH	73A0107/98	73A0155/2.5
SBGX	800 mm 48" (1219 mm) OAH	73A0107/98	73A0155/2.5
SBHX	800 mm 60" (1524 mm) OAH	73A0107/98	73A0155/2.5
SBJX	800 mm 72" (1829 mm) OAH	73A0107/98	73A0155/2.5

**Table 7: Cordsets**

CORD	DESCRIPTION	CONDUCTORS	JACKET DIA.
73A0107/72	L-823 C.SET FAA CLASS A TY II ST1, 72"L	16/2	0.38 in
73A0107/98	CORDSET 98" 16/2 SOW 600V ST 1 STRIPPED	16/2	0.38 in
73A0155/1.5	CORDSET 1.5 M (59") 12/2 SOW 600V ST 1	12/2	0.50 in
73A0155/2.5	CORDSET 2.5 M (98") 12/2 SOW 600V ST 1	12/2	0.50 in

## Appendix A: SUPPORT

Our experienced engineers are available for support and service at all times, 24 hour/7 days a week. They are part of a dynamic organization making sure the entire ADB SAFEGATE is committed to minimal disturbance for airport operations.

### ADB SAFEGATE Support

#### Live Technical Support - Americas

If at any time you have a question or concern about your product, just contact ADB SAFEGATE's technical service department. Trained in all areas of system issues, troubleshooting, quality control and technical assistance, our highly experienced Technical support specialists are available 24 hours a day, seven days a week to provide assistance over the phone.

ADB SAFEGATE **Americas Technical Service & Support (US & Canada): +1-800-545-4157**

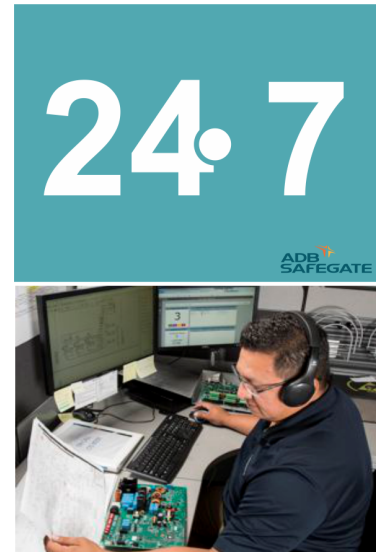
**ADB SAFEGATE Americas Technical Service & Support (International): +1-614-861-1304**

During regular business hours, you can also Chat with a Service Technician. We look forward to working with you!

#### Before You Call

When you have an airfield lighting or system control system problem it is our goal to support airfield maintenance staff as quickly as possible. To support this effort we ask that you have the following information ready before calling.

- The *airport code*
- If not with an airport, then company name (prefer customer id number)
- Contact phone number and email address
- Product with part number preferable or product number
- Have you reviewed the product's manual and troubleshooting guide
- Do you have a *True RMS* meter available (and any other necessary tools)
- Be located with the product ready to troubleshoot



#### Note

For more information, see [www.adbsafegate.com](http://www.adbsafegate.com), or contact ADB SAFEGATE Support via email at [support@adbsafegate.com](mailto:support@adbsafegate.com) or

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Rest of Europe: +46 (0) 40 699 17 40

Americas: +1 614 861 1304. Press 3 for technical service or press 4 for sales support.

China: +86 (10) 8476 0106

### A.1 ADB SAFEGATE Website

The ADB SAFEGATE website, [www.adbsafegate.com](http://www.adbsafegate.com), offers information regarding our airport solutions, products, company, news, links, downloads, references, contacts and more.

## A.2 Recycling

### A.2.1 Local Authority Recycling

The disposal of ADB SAFEGATE products is to be made at an applicable collection point for the recycling of electrical and electronic equipment. The correct disposal of equipment prevents any potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling. The recycling of materials helps to conserve natural resources. For more detailed information about recycling of products, contact your local authority city office.

### A.2.2 ADB SAFEGATE Recycling

ADB SAFEGATE is fully committed to environmentally-conscious manufacturing with strict monitoring of our own processes as well as supplier components and sub-contractor operations. ADB SAFEGATE offers a recycling program for our products to all customers worldwide, whether or not the products were sold within the EU.

ADB SAFEGATE products and/or specific electrical and electronic component parts which are fully removed/separated from any customer equipment and returned will be accepted for our recycling program.

All items returned must be clearly labeled as follows:

- For *ROHS/WEEE* Recycling
- Sender contact information (Name, Business Address, Phone number).
- Main Unit Serial Number.

ADB SAFEGATE will continue to monitor and update according for any future requirements for *EU directives* as and when *EU member states* implement new *regulations* and or *amendments*. It is our aim to maintain our *compliance plan* and assist our customers.

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