



**ASM-LS**  
**LSxxx Series**  
**High Power Loud Speaker**



## **INSTALLATION AND OPERATION MANUAL**

**REV 1.20 May 2, 2022**

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# LSxxx Series High Power Loud Speaker Installation and Operation Manual



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## LSxxx Series High Power Loud Speaker Installation and Operation Manual

<b>Prepared By:</b>  Tony Pearson Designer May 2, 2022 	<b>Checked By:</b>  Derrick Formosa Mechanical Designer 17-May-22 	<b>Approved By:</b>  Tom Betzelt Product Support Manager May 17, 2022 
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The status of this installation and operation manual is controlled by the revision shown on the title page. The status of each section is controlled by revision shown in the footer of each page. All revisions affecting sections of this manual have been incorporated.

<b>AEM MANUAL REVISIONS</b>			
<b>Section</b>	<b>Revision Number</b>	<b>Revision Description</b>	<b>Date</b>
2.7	Rev 1.20	ECO#1130: Re-entrant tip securing, added LS300-201, LS600-201	May 2, 2022
2.3	Rev 1.11	RAS#708: Corrected Meeker PN's	October 4, 2017
2.3	Rev 1.10	RAS#589: Updated Mechanical Installation section.	May 13, 2016
All	Rev 1.00	Initial Release	April 24, 2015

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## Section 1.0 Description

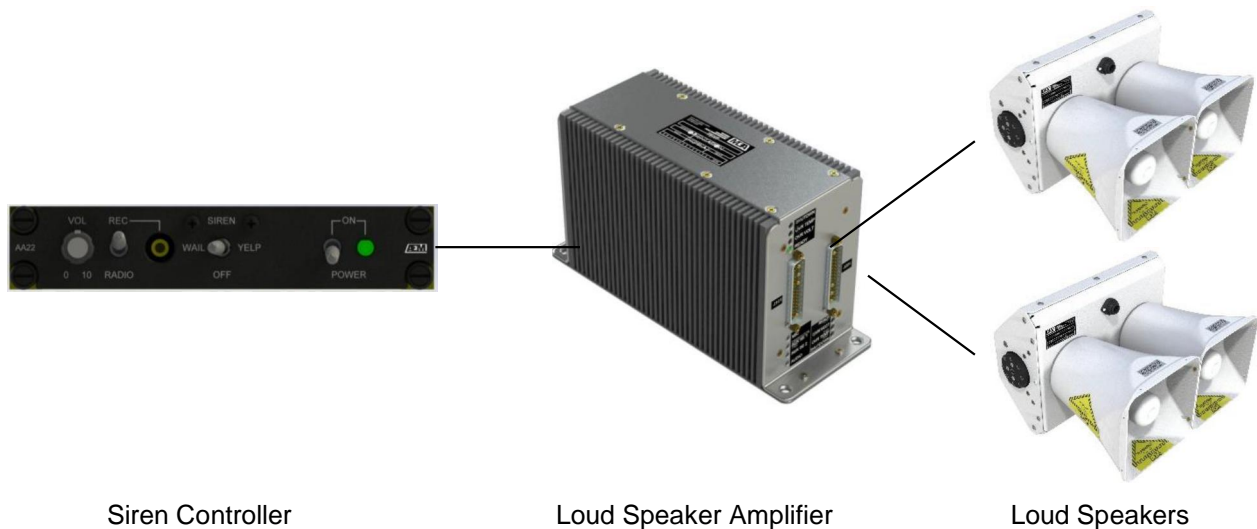
### 1.1 Introduction

Information in this section consists of product description, design features and specifications for the LSxxx Series High Power Loud Speakers.

Review all notes, warnings and cautions.

### 1.2 Product Description

The LSxxx Series Loud Speakers are high output power loud speakers for use in air-to-ground, air-to-sea, or ground-to-ground audible communication systems. The LSxxx Series speakers are intended for use with the LSA400 or LSA800 series amplifiers and a siren controller as a complete system.





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### 1.3 Design Features

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This series of speakers is available in a single or double bell configuration, which allows the user to vary the range and/or dispersal pattern depending on the mounting configurations.

The speaker drivers have been updated to provide much better conversion of electrical power (Watts) to sound pressure (SPL).

The LSxxx Series speakers are designed and qualified to meet many operational roles of current and future light, medium, and heavy helicopters as well as fixed wing aircraft.

### 1.4 Specifications

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#### 1.4.1 Electrical Specifications

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Loudspeaker	Total Bell Configuration	Impedance	Rated Peak Power	Output Level @ 1m & Rated Peak Power	Weight
LS300-20x	1	5.5 Ω	300 Watts Peak	130dB	15 lbs [6 kg]
LS600-20x	2	2 Channels at 5.5 Ω each	600 Watts Peak	135dB	28 lbs [12.7 kg]

At the time of publication, performance information was available only for the speakers listed above. For details of other units, please contact the Product Support department at AEM.

#### 1.4.2 Physical Specifications

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See Mechanical Installation drawings (LSxxx-xxx-922-0) for speaker physical specifications (where x is the model reference of the specific unit under consideration, i.e. LS300-200-922-0)

#### 1.4.3 Environmental Specifications

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Temperature	-40 to +60°C (operating) -55 to +85°C (survival)
Altitude	+25,000 ft. (+7,620 m) max.
Humidity	95% Non-condensing
Shock	6g (any axis)
Vibration	DO-160G Category 'S' Curves B & M and Category 'U2' Curves F & F1
Magnetic Effect	DO-160G category 'B'



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### 1.5 System Configuration

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Loud Speaker	Total Bell Configuration	Amplifier	Input Power	Output Level @ 1m
LS300-20x	1	LSA400	28 Vdc	130dB
LS600-20x	2	LSA400	28 Vdc	135dB
LS600-20x	2	LSA800	28 Vdc	135dB
1 X LS300-20x 1 X LS600-20x	3	LSA800	28 Vdc	137dB
2 X LS300-20x	2	LSA800	28 Vdc	135dB
2 X LS600-20x	4	LSA800	28 Vdc	141dB

At the time of publication, performance information was available only for the speakers listed above. For details of other units, please contact the Product Support department at AEM.

End of Section 1.0

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# LSxxx Series High Power Loud Speaker Installation and Operation Manual

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## Section 2.0 Installation

---

### 2.1 Introduction

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Information in this section consists of: unpacking and inspection procedures, installation procedures, post-installation checks, and installation drawings.

### 2.2 Unpacking and Inspection

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Unpack the equipment carefully. Inspect the unit visually for damage due to shipping and report all such claims immediately to the carrier involved. Note that each unit should have the following:

- LSxxx Series High Power Loud Speaker
- Product Information Card
- Certificate of Conformity or Release Certification

Verify that all items are present before proceeding and report any shortage immediately to your supplier.

#### 2.2.1 Warranty

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All Anodyne Electronics Manufacturing Corp. (AEM) products are warranted for 3 years. See the website [www.aem-corp.com/warranty](http://www.aem-corp.com/warranty) for complete details.

### 2.3 Installation Procedures

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#### 2.3.1 Warnings

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**WARNING:**

**When the speaker is connected to an appropriate amplifier, the system is capable of producing high sound pressure levels. Proper personal protective equipment is required to prevent hearing damage. Stand clear, this equipment operates at an intense sound level. Personnel must be kept away from the direct loud speaker beam.**





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### 2.3.2 Cautions

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**CAUTION:**

Do not operate the equipment in a hangar or in confined areas.  
Do not operate the equipment with snow, water or other foreign matter in the loud speaker horn.  
Do not clean the loud speaker with compressed air.  
Bundle and route the Speaker Output wires separately from low level Audio Input lines.  
Always check ADF and compass calibration after installing external speakers or power amplifiers.

### 2.3.3 Cabling and Wiring

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All wire shall be selected in accordance with the original aircraft manufacturer's Maintenance Instructions or AC43.13-1B Change 1, Paragraphs 11-76 through 11-78. Unshielded wire types shall qualify to MIL-W-22759 as specified in AC43.13-1B Change 1, Paragraphs 11-85, 11-86, and listed in Table 11-11. For shielded wire applications, use Tefzel MIL-C-27500 shielded wire with solder sleeves (for shield terminations) to make the most compact and easily terminated interconnect. Follow the interconnect drawing in Section 2.7 as required.

Allow 3" from the end of the shielded wiring to the shield termination to allow the connector hood to be easily installed. Refer to the interconnect drawing in Section 2.7 for shield termination details. Note that the hood is a "clamshell" hood, and is installed after the wiring is complete. Aircraft harnessing shall permit the unit to be removed for easy access to all adjustments.

Maintain wire segregation and route wiring in accordance with the original aircraft manufacturers Maintenance Instructions.

### 2.3.4 Mechanical Installation

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The installing agency is responsible for the design, engineering and installation of the mounting bracket for the LSxxx Series High Power Loud Speakers. Careful consideration should be given to the operating environment and the mechanical forces acting upon the LSxxx Series unit(s).

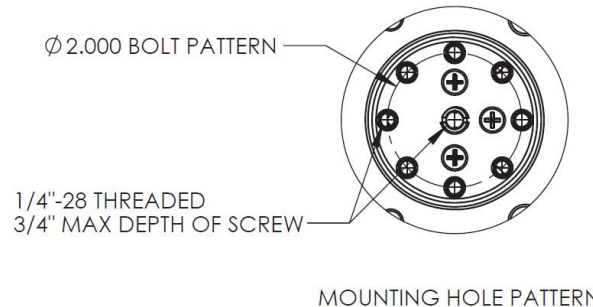
The guidelines used in the AC43.13-1B Advisory Circular should be used to provide general reference to the selection of hardware, torque values, etc. The specific references are contained in AC43.13-1B, Chapter 7, Table 7-1.

A minimum of five mounting 1/4"-28 bolts per side is recommended for the LS300-200 and LS600-200 speakers. The bolts should have a torque value of 50 – 70 inch lbs as per the AC43.13-1B. Refer to the following diagram for the mounting hole pattern.



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The LSxxx-20x series of loud speakers, Rev 2.00 or later, can be mounted using the AFM-SB-XX series of Meeker Aviation mount brackets.

AEM Part Number	Required Meeker Aviation Mounting Bracket
LS300-20x	AFM-SB-1-1C
LS600-20x	AFM-SB-1-1A

For information and availability of the AFM-SB-XX series of mounting brackets contact Meeker Aviation:

**Meeker Aviation**  
#206 19142 122nd Ave  
Pitt Meadows, BC  
Canada V3Y 2P9  
PH: 604-644-1125  
FAX: 760-758-9612  
[www.meekeraviation.com](http://www.meekeraviation.com)

### 2.3.5 Post-Installation Checks

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Ensure all connectors are tight and the speaker array mechanical installation is sound.

Ensure that the speakers are secure and adjusted with the line of sight focused towards the intended target. See section 2.6 for speaker location and orientation information.

When the PA system installation is complete, carry out a full performance test to ensure that all components of the system (including the loud speaker array) are functioning correctly.

### 2.4 Accessories Required But Not Supplied

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LS300-IK LS300 and LS600 90° Sealed Screw Terminal Installation Kit  
LS300-201-IKC LS300-201 and LS600-201 90° Crimp Installation Kit

### 2.5 Continued Airworthiness

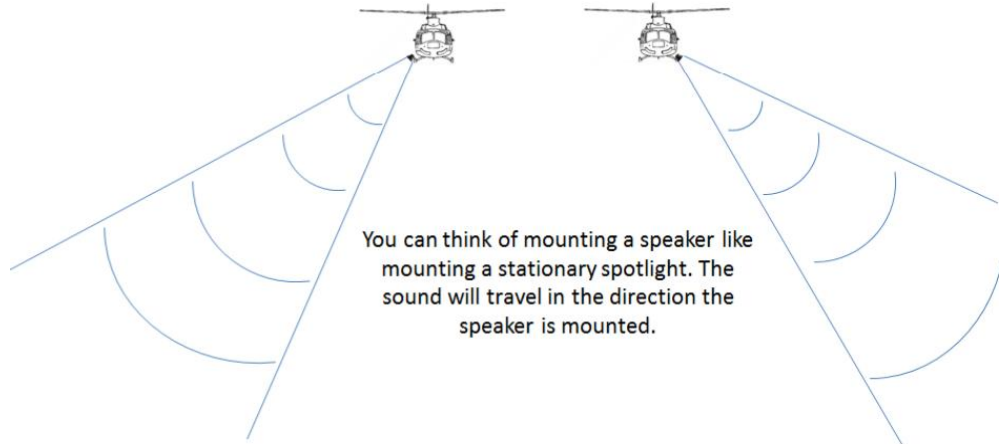
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Maintenance of the LSxxx Series is 'on condition' only. Periodic maintenance of this product is not required.



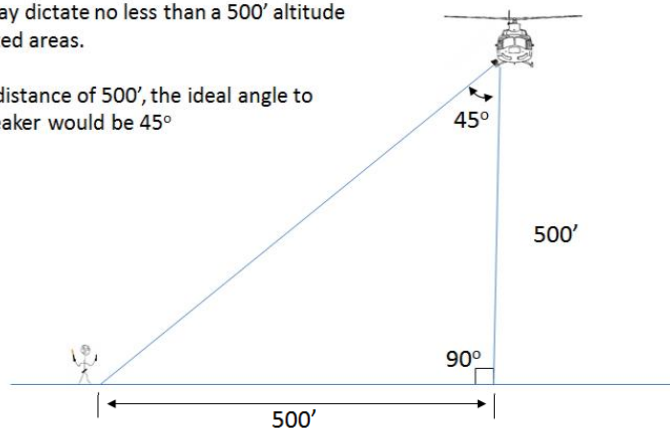
## LSxxx Series High Power Loud Speaker Installation and Operation Manual

### 2.6 Speaker Location and Orientation

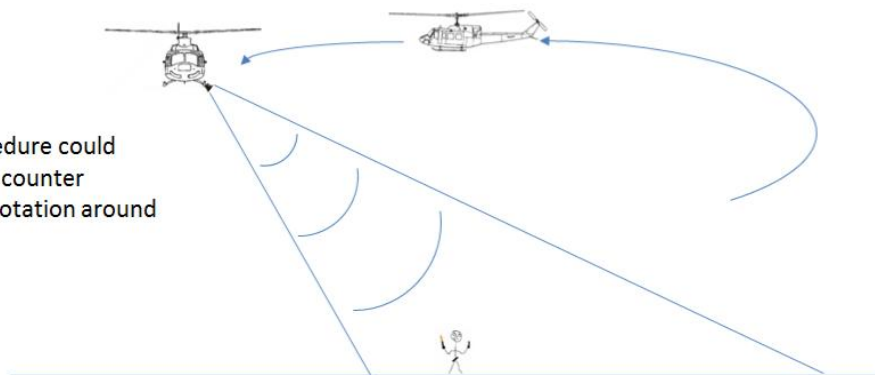


Regulations may dictate no less than a 500' altitude above populated areas.

With a target distance of 500', the ideal angle to mount the speaker would be 45°



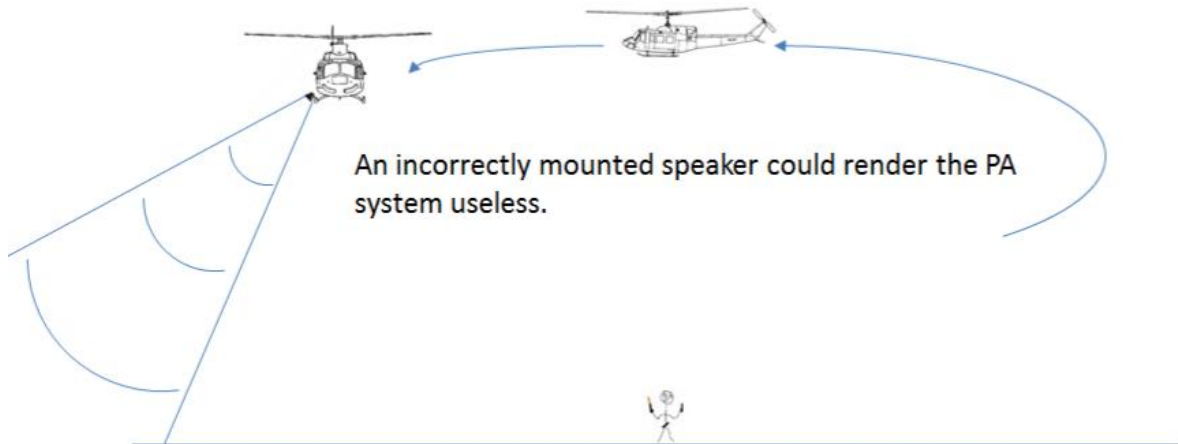
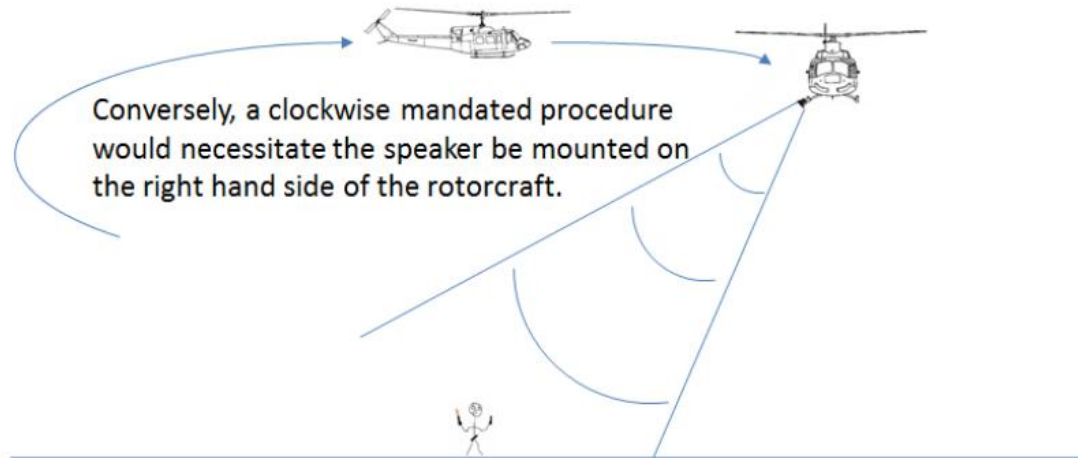
Local procedure could mandate a counter clockwise rotation around target.



A speaker mounted on the left side of the helicopter would facilitate PA communications from helicopter to target.

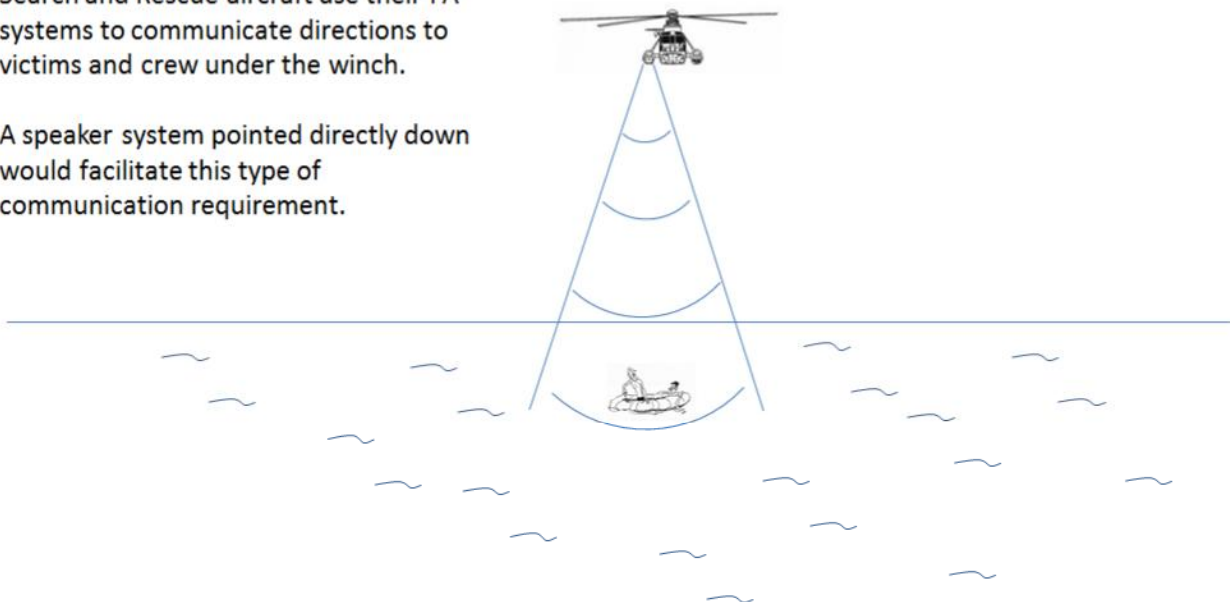


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Search and Rescue aircraft use their PA systems to communicate directions to victims and crew under the winch.

A speaker system pointed directly down would facilitate this type of communication requirement.





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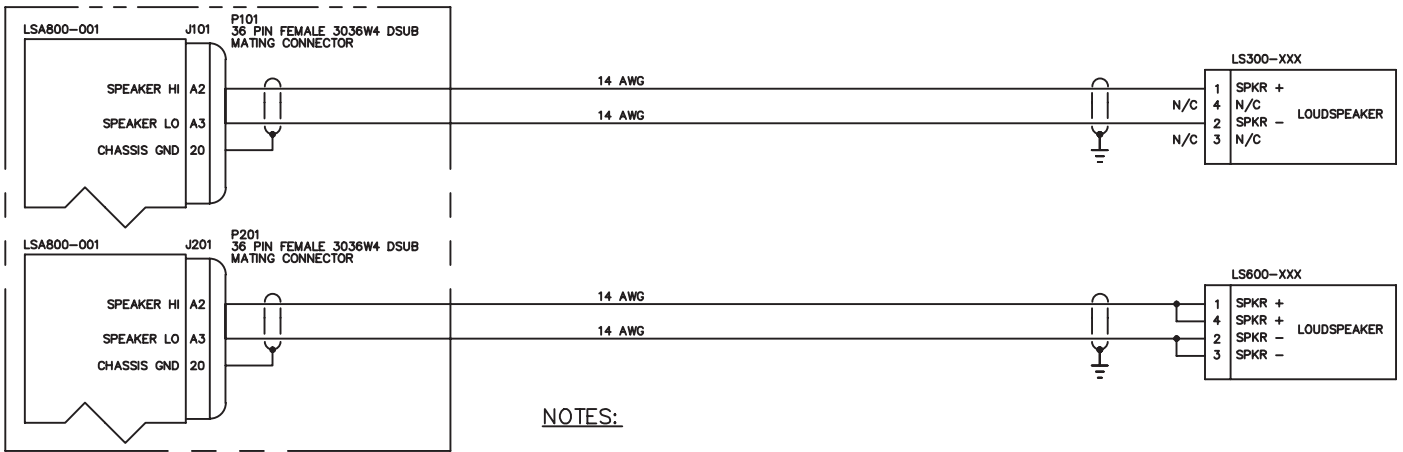
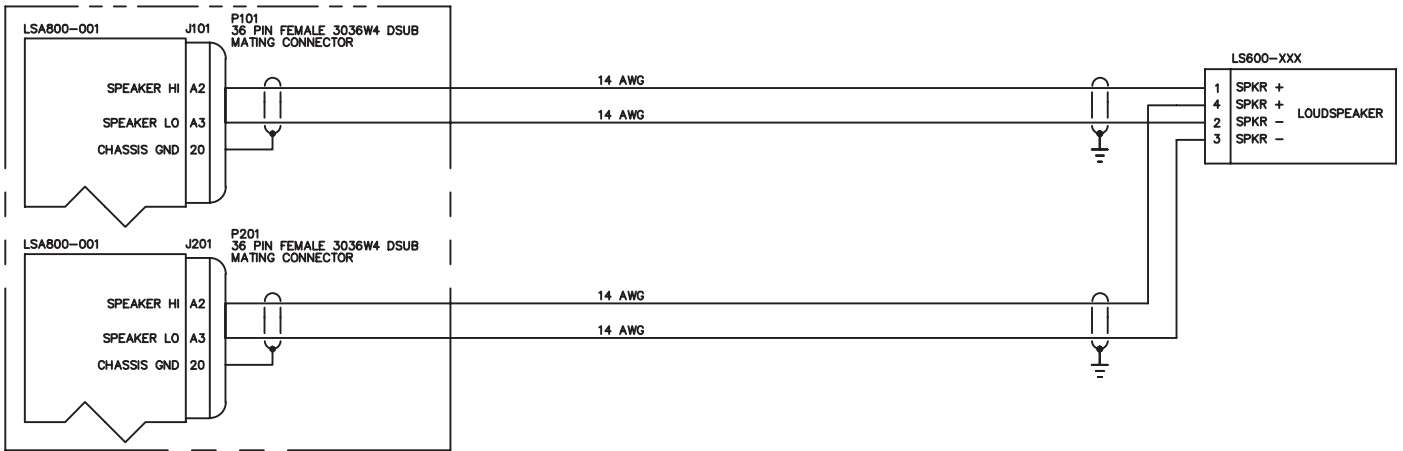
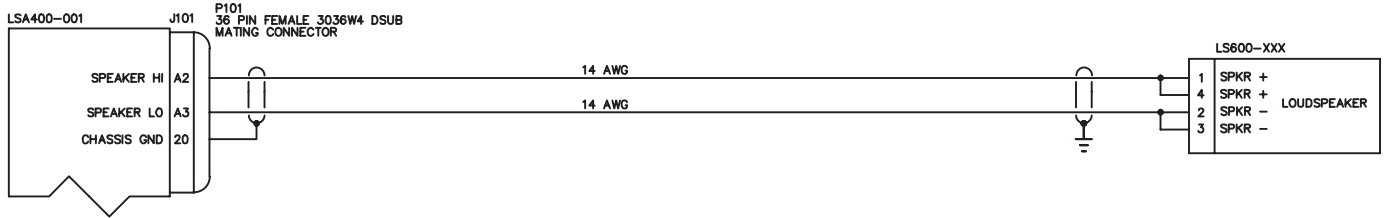
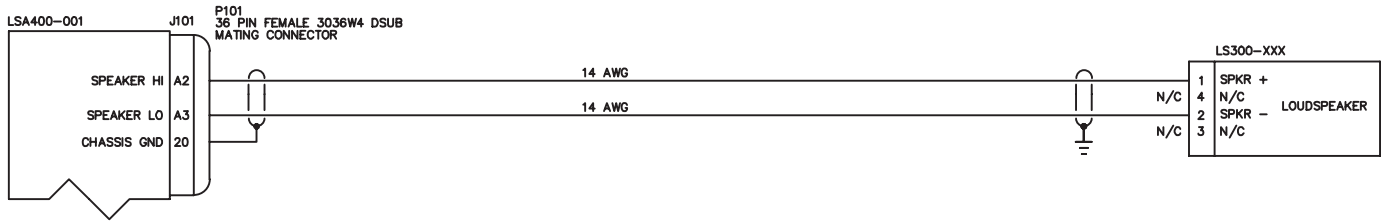
### 2.7 Installation Drawings

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<b>DRAWING</b>	<b>REV.</b>	<b>DESCRIPTION</b>	<b>TYPE</b>	<b>SERIAL NO.</b>
LSxxx-403-0	1.00	Loud Speaker Configurations	Interconnect	All
LS300-405-0	2.00	Loud Speaker, LS300	Connector Map	1006 and up
LS300-405-0	1.00	Loud Speaker, LS300	Connector Map	Up to 1005
LS600-405-0	2.00	Loud Speaker, LS600	Connector Map	1006 and up
LS600-405-0	1.00	Loud Speaker, LS600	Connector Map	Up to 1005
LS300-200-922-0	2.20	Loud Speaker, LS300	Mechanical Installation	92177 and up
LS300-200-922-0	2.10	Loud Speaker, LS300	Mechanical Installation	60911 to 92176
LS300-200-922-0	2.00	Loud Speaker, LS300	Mechanical Installation	1006 to 60910
LS300-200-922-0	1.10	Loud Speaker, LS300	Mechanical Installation	Up to 1005
LS600-200-922-0	2.20	Loud Speaker, LS600	Mechanical Installation	97445 and up
LS600-200-922-0	2.10	Loud Speaker, LS600	Mechanical Installation	60915 to 97444
LS600-200-922-0	2.00	Loud Speaker, LS600	Mechanical Installation	1006 to 60914
LS600-200-922-0	1.00	Loud Speaker, LS600	Mechanical Installation	Up to 1005
LS300-201-405-0	1.00	LS300-201 Loud Speaker	Connector Map	87238 and up
LS300-201-922-0	1.10	Loud Speaker	Mechanical Installation	88461 and up
LS300-201-922-0	1.00	Loud Speaker	Mechanical Installation	87238 to 88460
LS600-201-405-0	1.00	LS600-201 Loud Speaker	Connector Map	87238 and up
LS600-201-922-0	1.10	Loud Speaker	Mechanical Installation	88461 and up
LS600-201-922-0	1.00	Loud Speaker	Mechanical Installation	87238 to 88460

Section 2.0 ends following the above documents

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**NOTES:**

- SEE APPLICABLE ASM-LSA400 OR ASM-LSA800 INSTALL AND OPS MANUAL FOR SYSTEM LEVEL INTERCONNECTIONS.

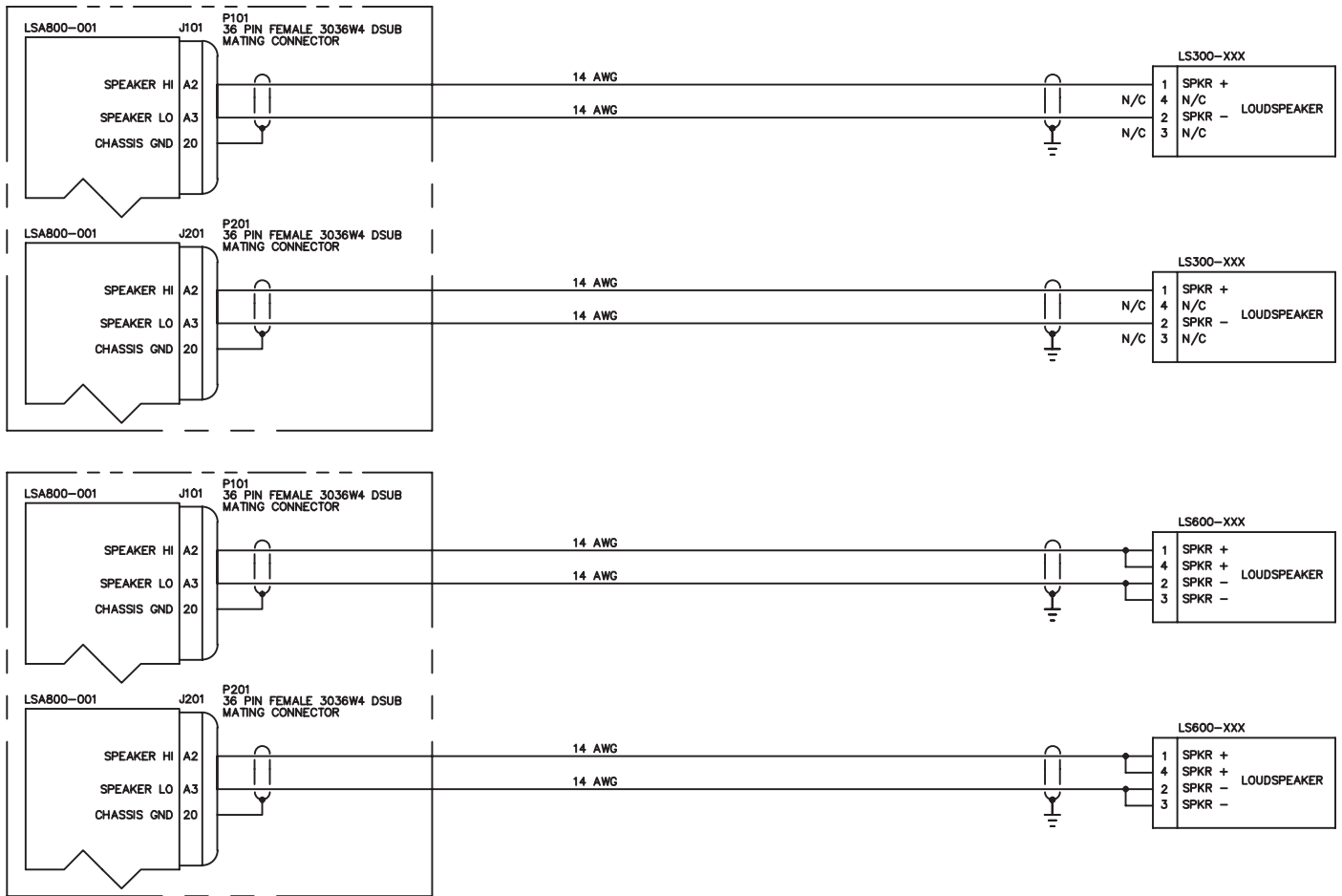
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		TWO DECIMAL PLACE _____ ±0.010"
		THREE DECIMAL PLACE _____ ±0.005"
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
KELOWNA BC CANADA  
(250)-763-1088  
WWW.AEM-CORP.COM

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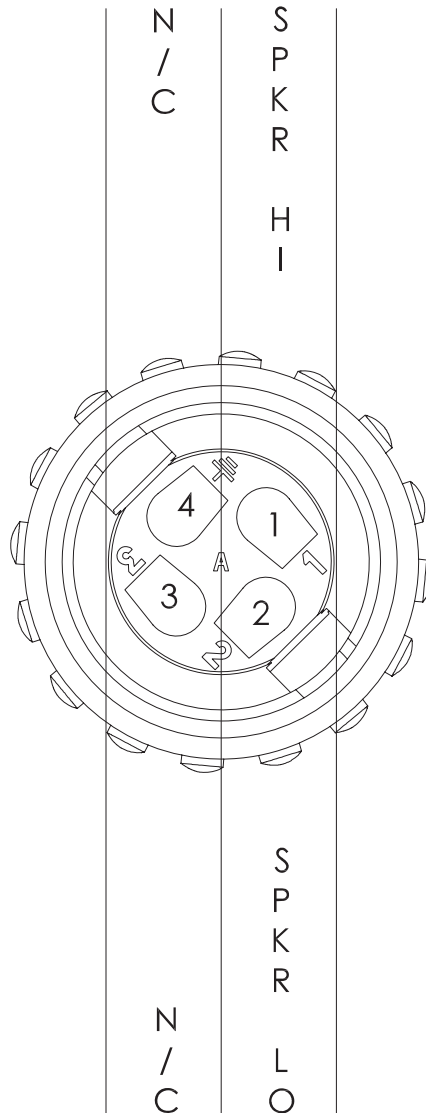


**NOTES:**

- SEE APPLICABLE ASM-LSA400 OR ASM-LSA800  
INSTALL AND OPS MANUAL FOR SYSTEM LEVEL INTERCONNECTIONS.




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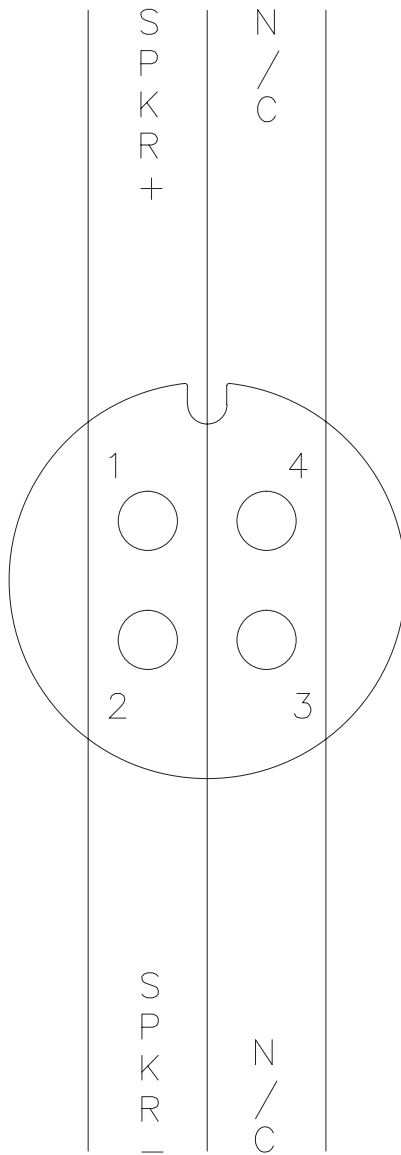


4 PIN CIRCULAR  
SOCKET SCREW

VIEW IS FROM REAR OF AIRFRAME CONNECTOR




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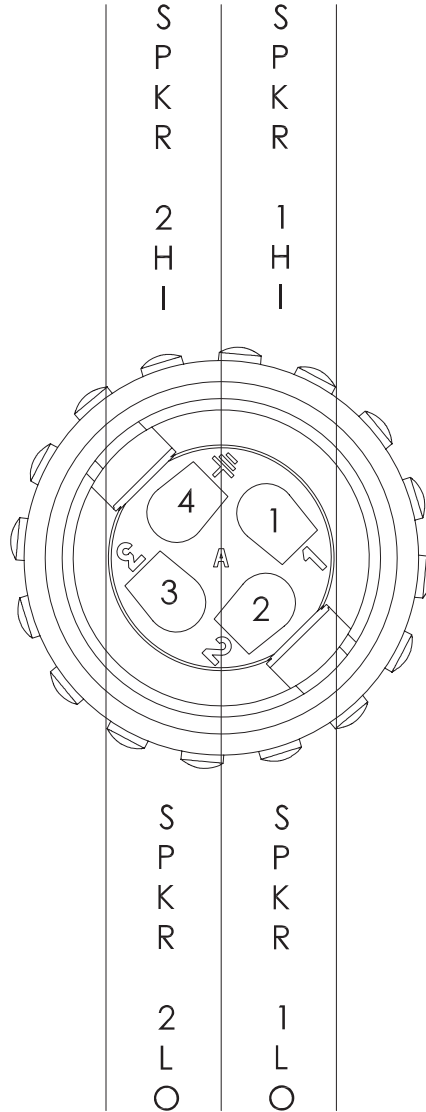
4 PIN CIRCULAR  
SOCKET SOLDER

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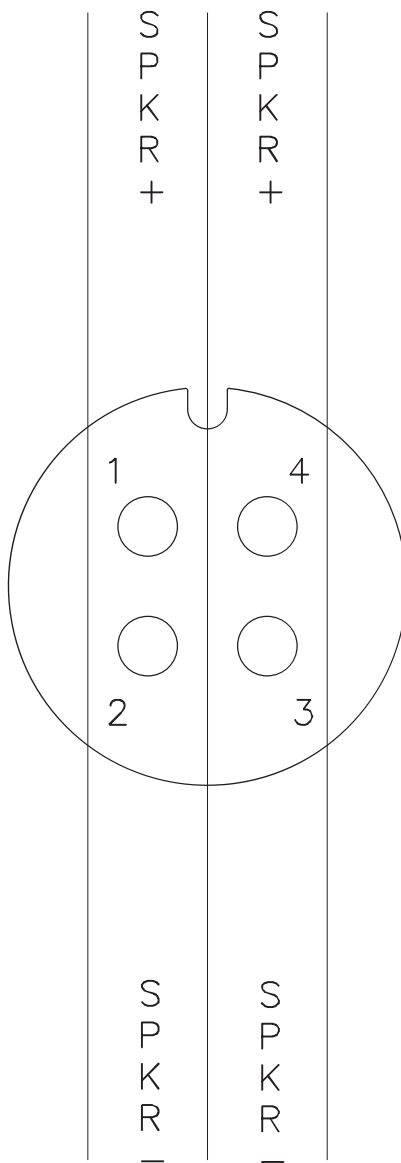
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4 PIN CIRCULAR  
SOCKET SCREW




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4 PIN CIRCULAR  
SOCKET SOLDER

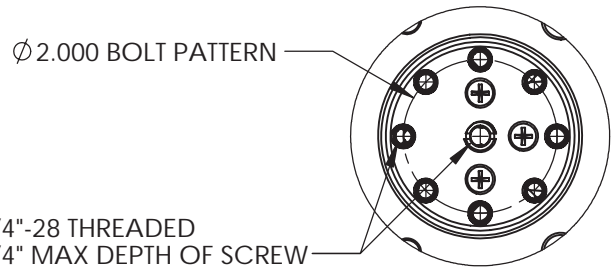
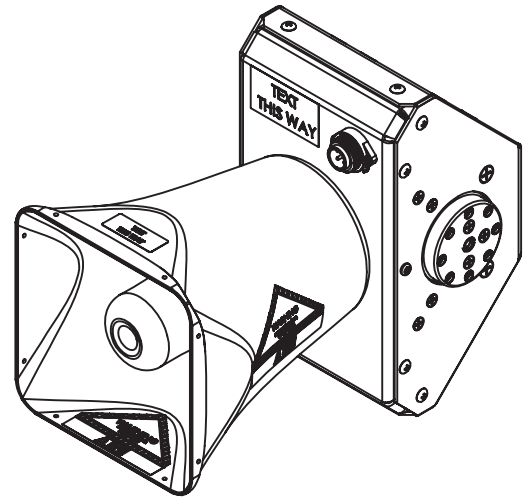
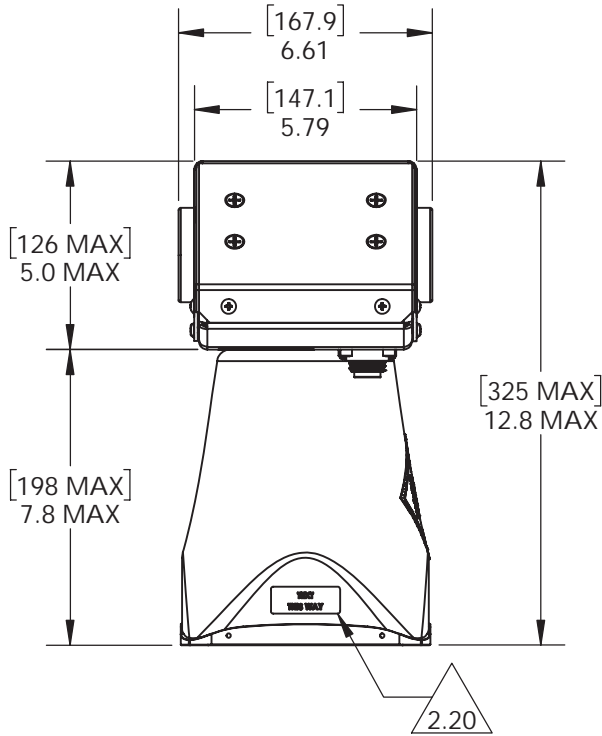
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CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.			MATERIAL:		REVISION	
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			NA		SCALE:NTS DO NOT SCALE DRAWING DRAWING No.: 405-0 SHEET:1 of 1	
			NA			

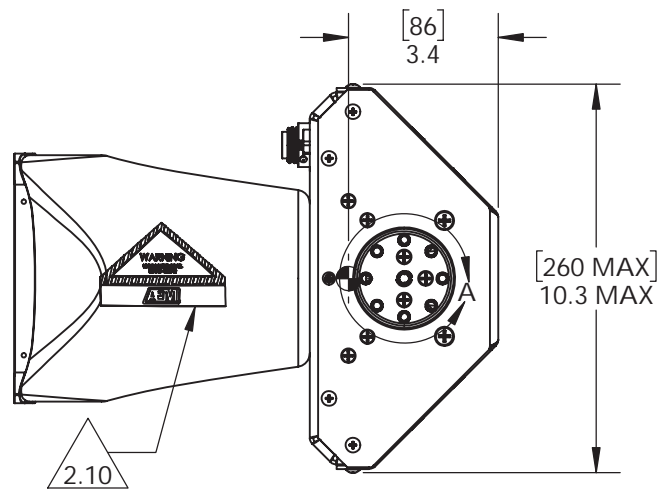
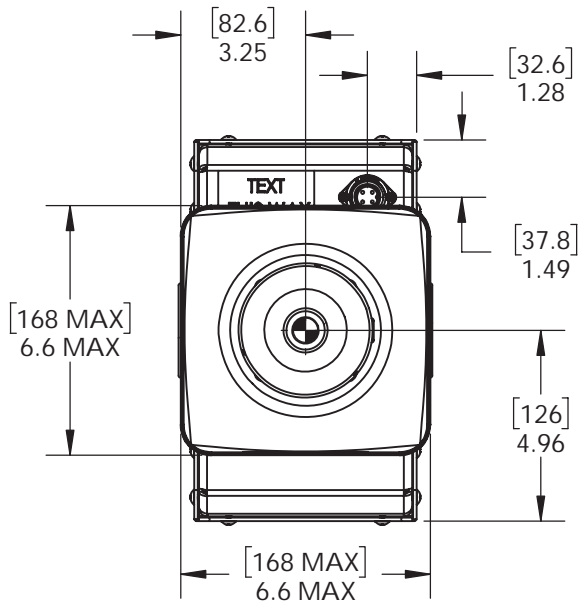
REVISIONS			
REV.	DESCRIPTION	DATE	NAME
2.00	ECO# 1037 - NEW DESIGN AFTER VIBRATION TESTING.	02-Mar-15	DMF
2.10	ECO# 1042 - SOUND WARNING LABEL WAS REV 1.01.	08-Jun-15	LAC
2.20	ECO# 1130 - SECURING RE-ENTRANT TIPS, NEW WARNING LABEL.	08-Apr-22	DMF



NOTES:

1. MASS 15 lb [6.8 kg] MAX.
2.  DENOTES CENTER OF GRAVITY (est.)



DETAIL A  
MOUNTING HOLE PATTERN  
SCALE 2 : 5



NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN DMF	14-Nov-14	DIMENSIONS ARE IN INCHES [MM]
CHECKED 	8-Apr-22	TOLERANCES:
APPROVED 	Apr 11/22	ANGULAR ±0.5°
		FRACTIONAL ±0.0625"
		ONE DECIMAL PLACE ±0.100"
		TWO DECIMAL PLACE ±0.030"
		THREE DECIMAL PLACE ±0.010"
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.		MATERIAL: N/A
		FINISH: N/A




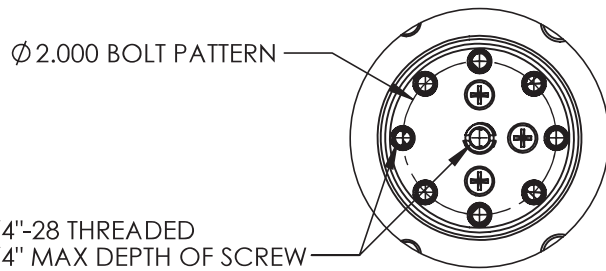
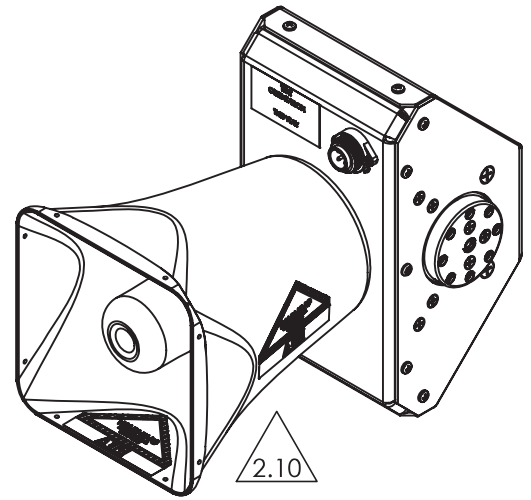
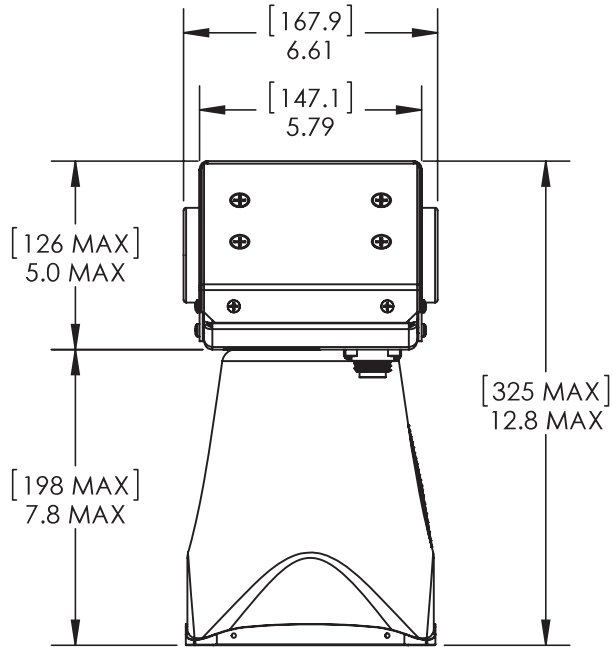
15-1925 KIRSCHNER RD.  
KELOWNA BC V1Y 4N7  
(250)-763-1088  
WWW.AEM-CORP.COM

TITLE: <b>LOUD SPEAKER MECHANICAL INSTALLATION</b>			
PAPER SIZE: <b>A</b>	CAGE CODE: <b>L9015</b>	PART No. : <b>LS300-200</b>	REVISION: <b>2.20</b>
SCALE: 1:5	DO NOT SCALE DRAWING	DRAWING No. : 922-0	SHEET: 1 OF 1

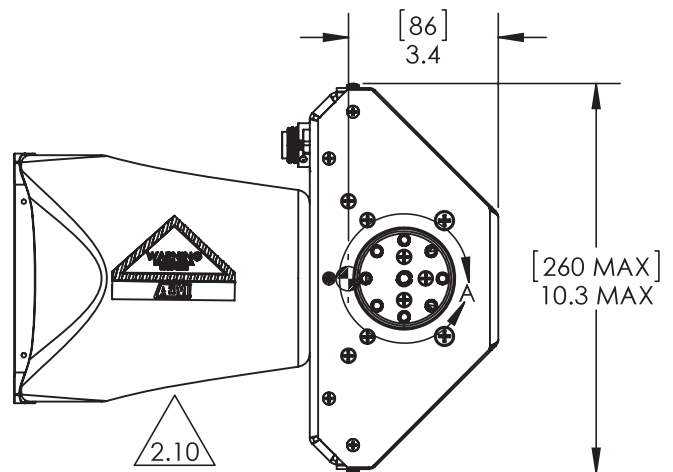
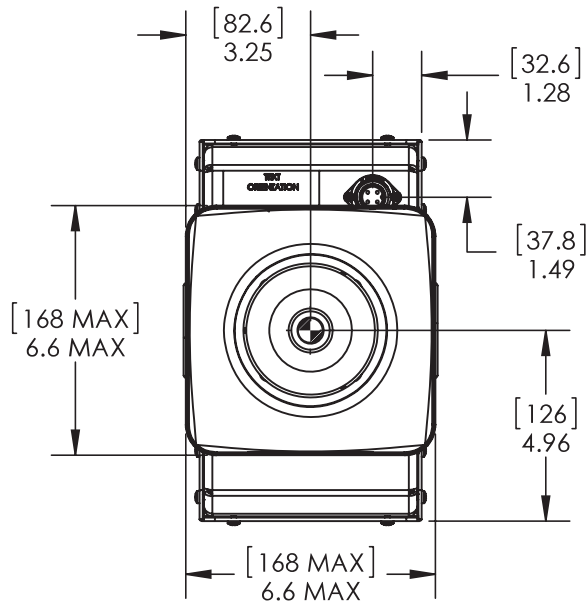
REVISIONS			
REV.	DESCRIPTION	DATE	NAME
2.00	ECO# 1037, NEW DESIGN AFTER VIBRATION TESTING	02-Mar-15	DMF
2.10	ECO1042 - SOUND WARNING LABEL WAS REV 1.01.	08-Jun-15	LAC



NOTES:

1. MASS 15 lbs [6.8 kg] MAX.
2.  DENOTES CENTER OF GRAVITY (est.)



DETAIL A  
MOUNTING HOLE PATTERN  
SCALE 2 : 5



NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN DMF	14-Nov-14	DIMENSIONS ARE IN INCHES [MM]
CHECKED 	9-Jun-15	TOLERANCES:
APPROVED 	Jun 10/15	ANGULAR ±0.5°
		FRACTIONAL ±0.0625"
		ONE DECIMAL PLACE ±0.100"
		TWO DECIMAL PLACE ±0.030"
		THREE DECIMAL PLACE ±0.010"
<b>CONFIDENTIAL AND PROPRIETARY</b>		MATERIAL:
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.		N/A
		FINISH:
		N/A




**ANODYNE  
ELECTRONICS  
MANUFACTURING CORP.**

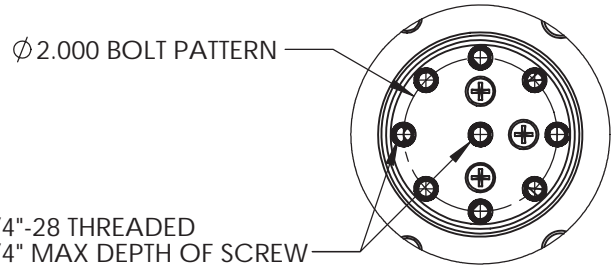
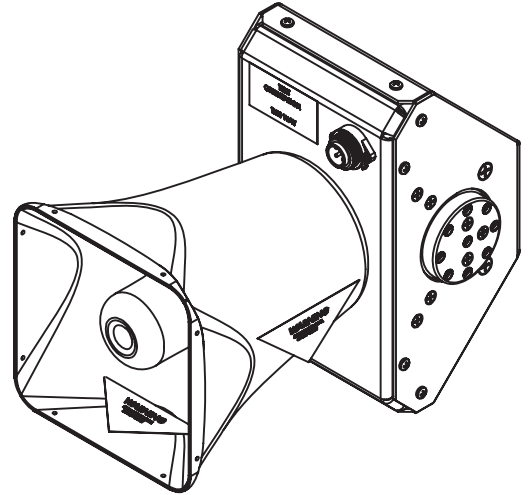
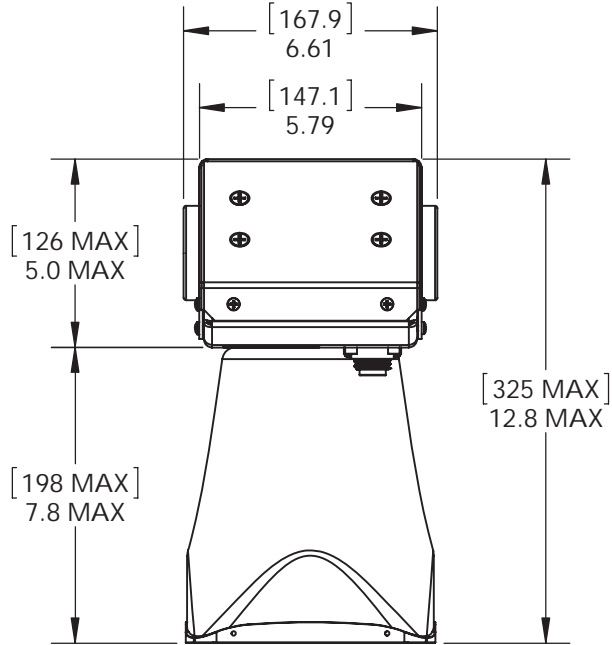
15-1925 KIRSCHNER RD.  
KELOWNA BC V7Y 4N7  
(250)-763-1088  
WWW.AEM-CORP.COM

TITLE: <b>LOUD SPEAKER MECHANICAL INSTALLATION</b>			
PAPER SIZE: <b>A</b>	CAGE CODE: <b>L9015</b>	PART No. : <b>LS300-200</b>	REVISION: <b>2.10</b>
SCALE: 1:5	DO NOT SCALE DRAWING	DRAWING No. : 922-0	SHEET: 1 OF 1

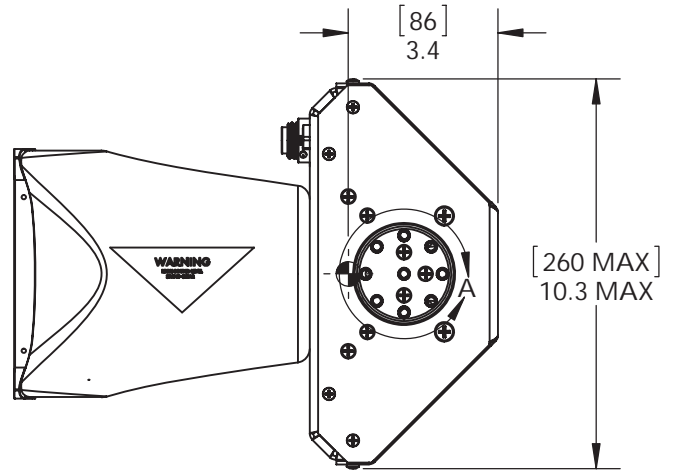
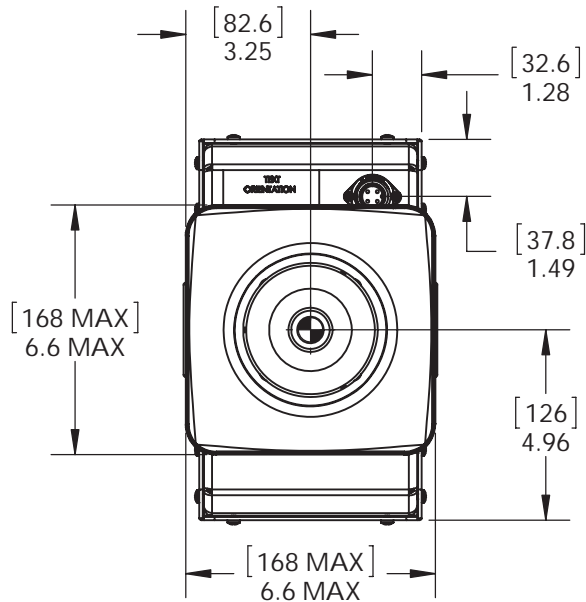
REVISIONS			
REV.	DESCRIPTION	DATE	NAME
2.00	ECO# 1037, NEW DESIGN AFTER VIBRATION TESTING	02-Mar-15	DMF



NOTES:

1. MASS 15 lbs [6.8 kg] MAX.
2.  DENOTES CENTER OF GRAVITY (est.)



DETAIL A  
 MOUNTING HOLE PATTERN  
 SCALE 2 : 5



NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN DMF	14-Nov-14	DIMENSIONS ARE IN INCHES [MM]
CHECKED 	11-Mar-15	TOLERANCES:
APPROVED 	Apr 28/15	ANGULAR ±0.5°
		FRACTIONAL ±0.0625"
		ONE DECIMAL PLACE ±0.100"
		TWO DECIMAL PLACE ±0.030"
		THREE DECIMAL PLACE ±0.010"
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.		MATERIAL: N/A
		FINISH: N/A




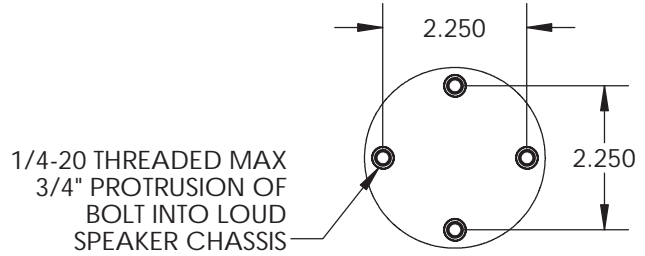
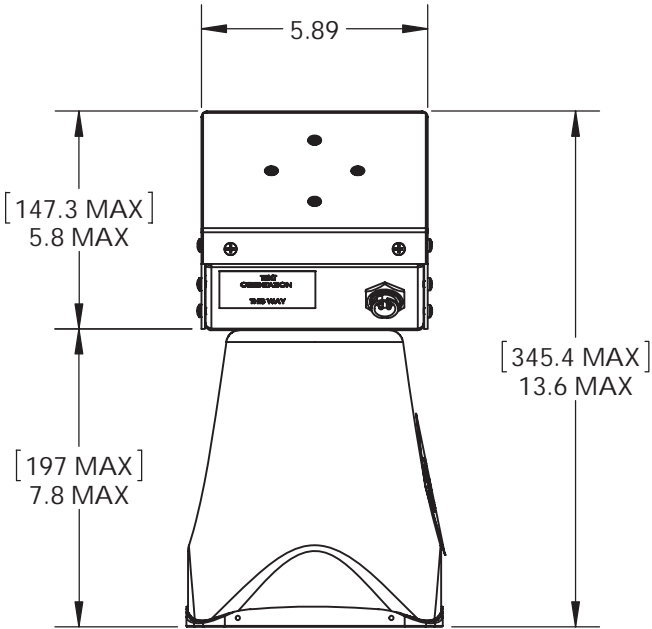
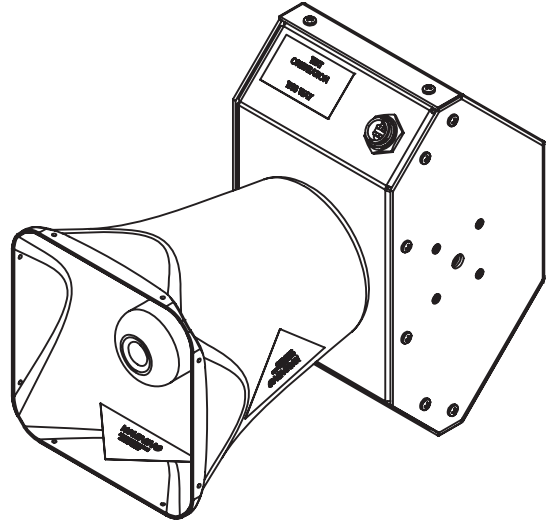
15-1925 KIRSCHNER RD.  
 KELOWNA BC V1Y 4N7  
 (250)-763-1088  
 WWW.AEM-CORP.COM

TITLE: <b>LOUD SPEAKER MECHANICAL INSTALLATION</b>			
PAPER SIZE: <b>A</b>	CAGE CODE: <b>L9015</b>	PART No. : <b>LS300-200</b>	REVISION: <b>2.00</b>
SCALE: 1:5	DO NOT SCALE DRAWING	DRAWING No. : 922-0	SHEET: 1 OF 1

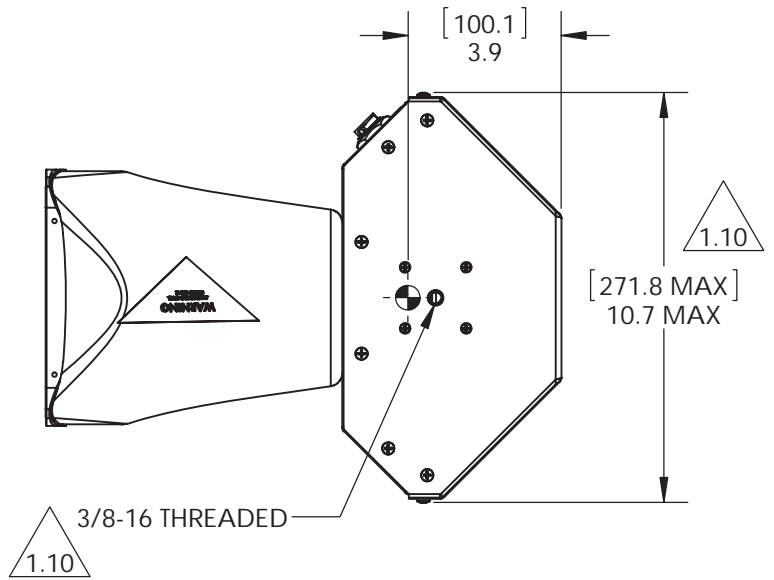
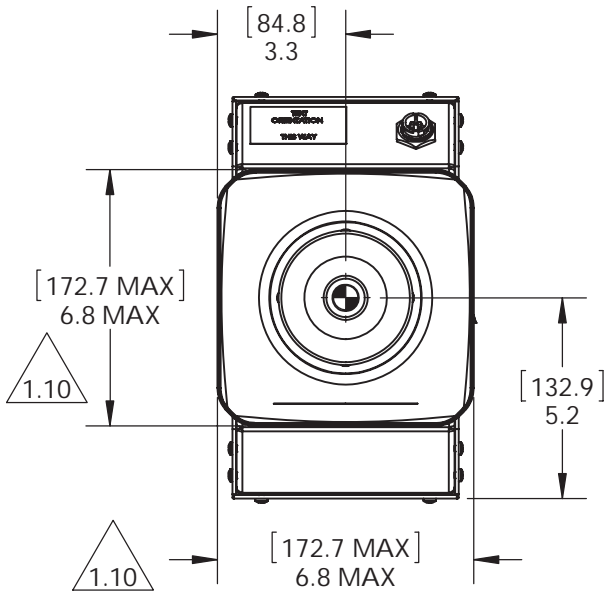
REVISIONS			
REV.	DESCRIPTION	DATE	NAME
1.10	RAS# 379, ADDED 3/8-16 THREADED NOTE, UPDATED DIMENSION SIZES	17-Nov-14	DMF



NOTES:

1. MASS 15 lbs [6 kg] MAX.
2.  DENOTES CENTER OF GRAVITY (est.)



SCALE 1 : 3  
DIAMOND MOUNTING PATTERN



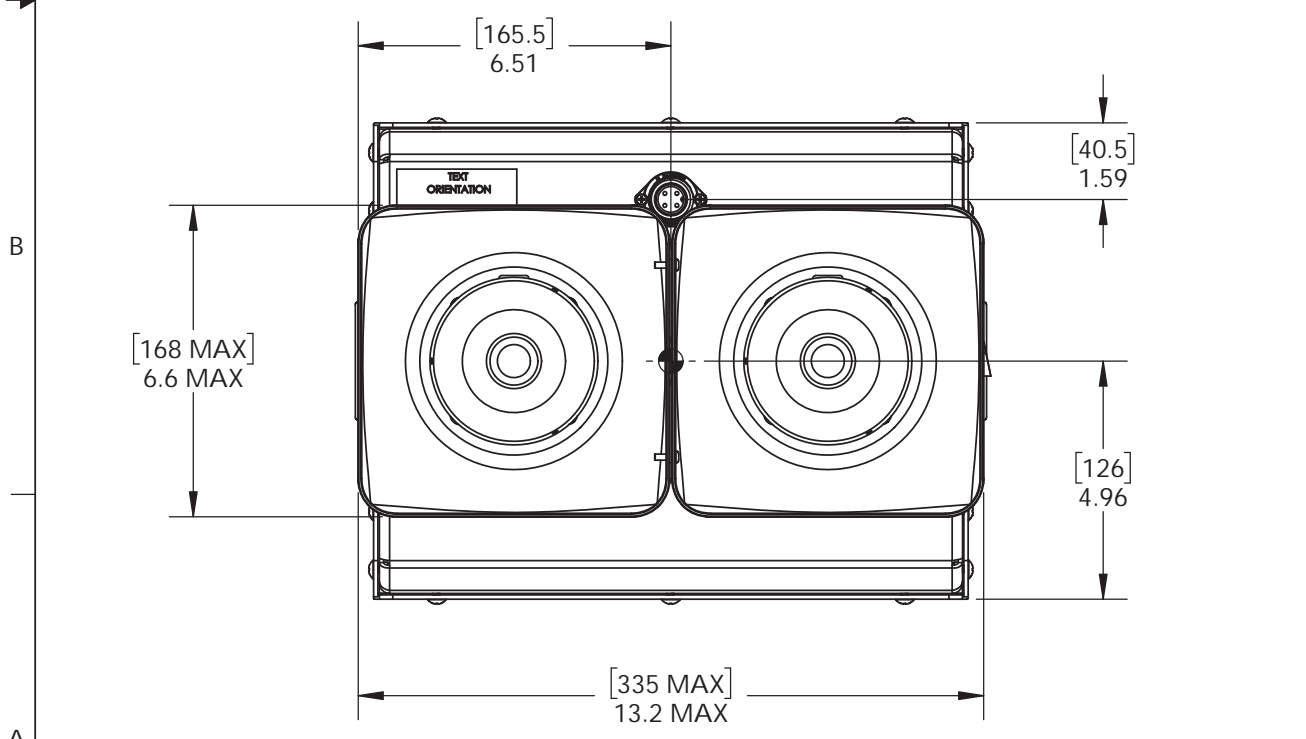
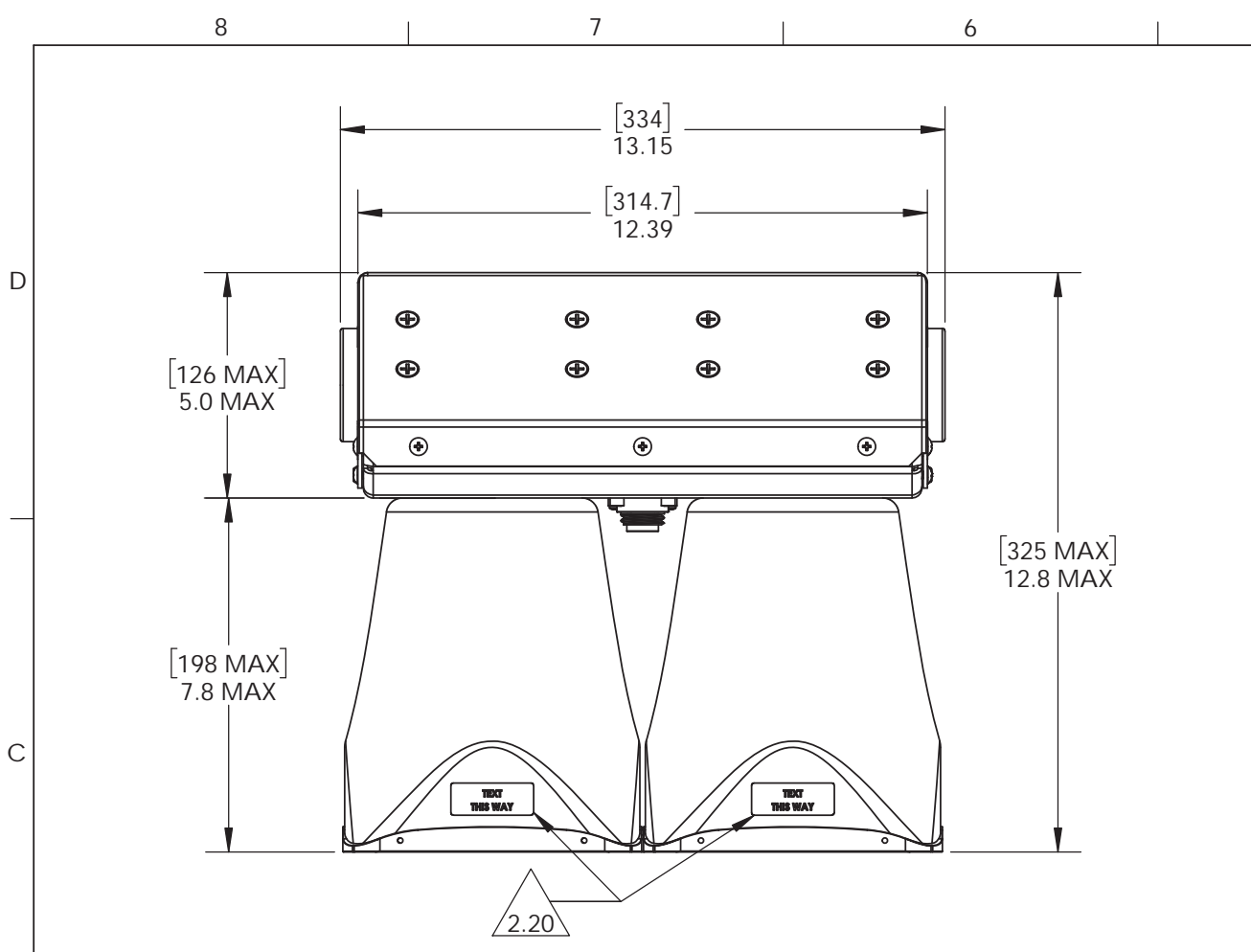
NAME	DATE	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [MM] TOLERANCES: ANGULAR ±0.5° FRACTIONAL ±0.0625" ONE DECIMAL PLACE ±0.100" TWO DECIMAL PLACE ±0.030" THREE DECIMAL PLACE ±0.010"
DRAWN DMF	14-Nov-14	
CHECKED 	14-Nov-14	
APPROVED 	Nov 17/14	
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.		MATERIAL: N/A
		FINISH: N/A



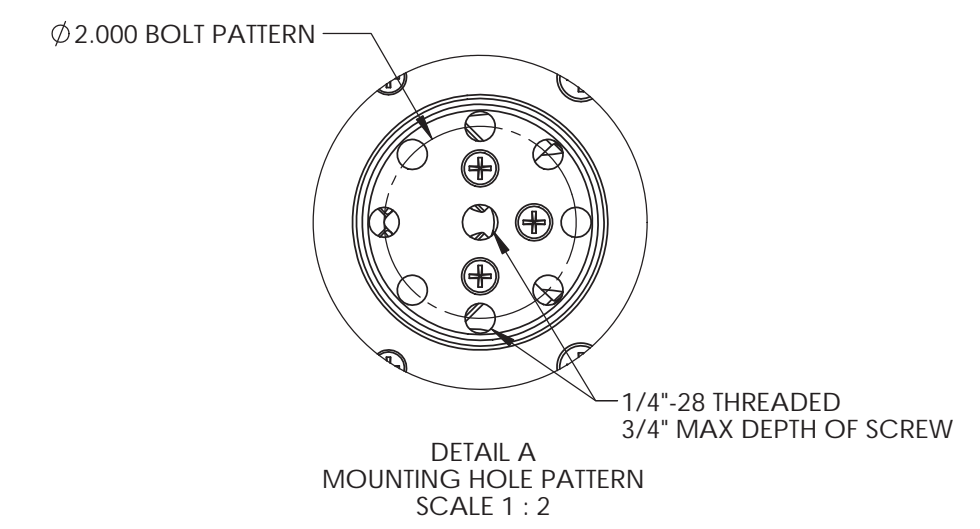
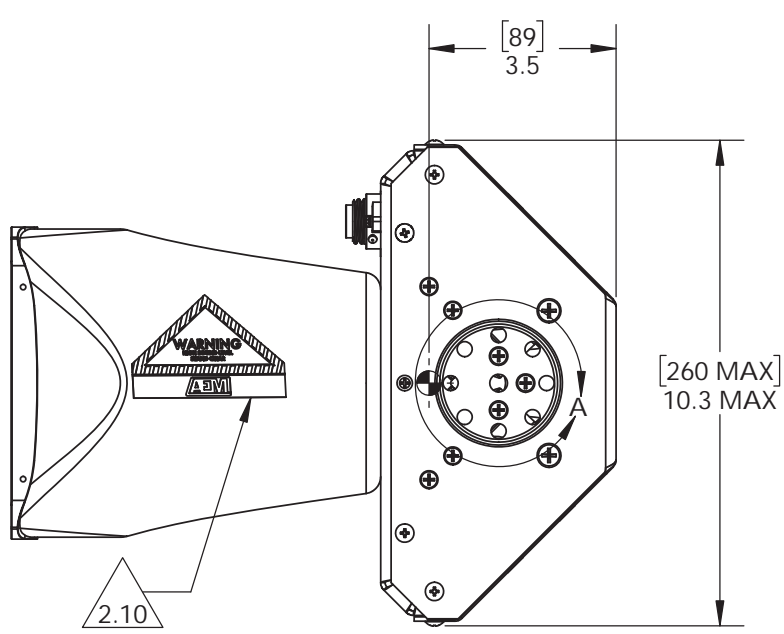
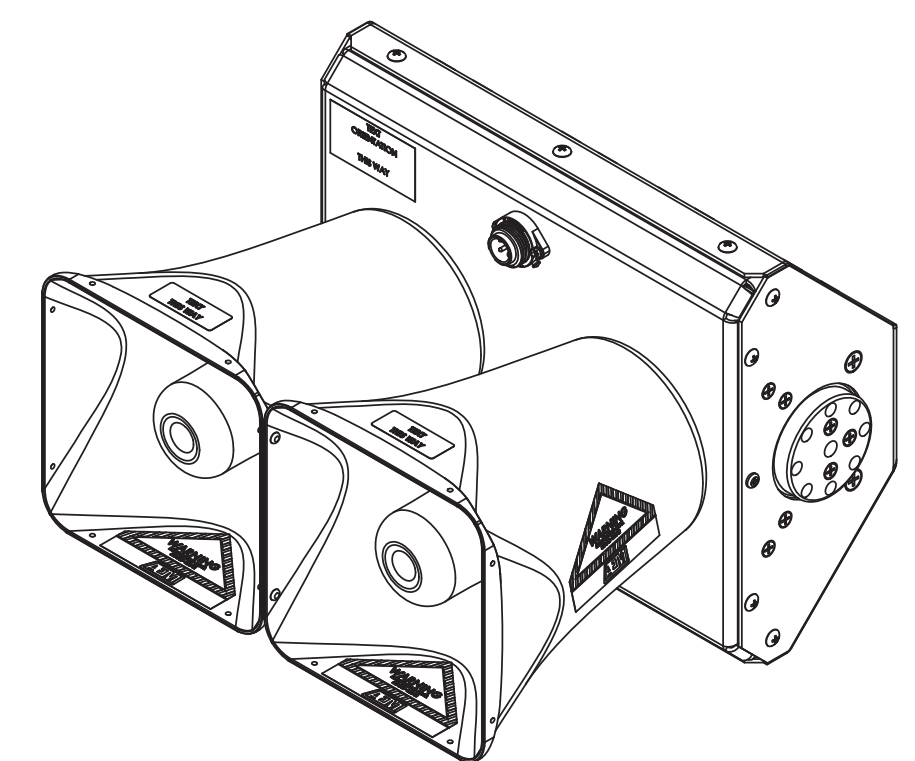
15-1925 KIRSCHNER RD.  
KELOWNA BC V1Y 4N7  
(250)-763-1088  
WWW.AEM-CORP.COM

TITLE: <b>LOUD SPEAKER MECHANICAL INSTALLATION</b>			
PAPER SIZE: <b>A</b>	CAGE CODE: <b>L9015</b>	PART No. : <b>LS300-200</b>	REVISION: <b>1.10</b>
SCALE: 1:5	DO NOT SCALE DRAWING	DRAWING No. : 922-0	SHEET: 1 OF 1

REVISIONS			
REV.	DESCRIPTION	DATE	NAME
2.00	ECO# 1037 - NEW DESIGN AFTER VIBRATION TESTING	11-Mar-15	DMF
2.10	ECO# 1042 - SOUND WARNING LABEL WAS REV 1.01, INCREASED OVERALL SIZE TO ACCOMODATE COVER SIZE.	09-Jun-15	LAC
2.20	ECO# 1130 - SECURING RE-ENTRANT TIPS, NEW WARNING LABEL.	08-Apr-22	DMF



- NOTES:
1. MASS 28 lb [12.7 kg] MAX.
  2. DENOTES CENTER OF GRAVITY (est.)

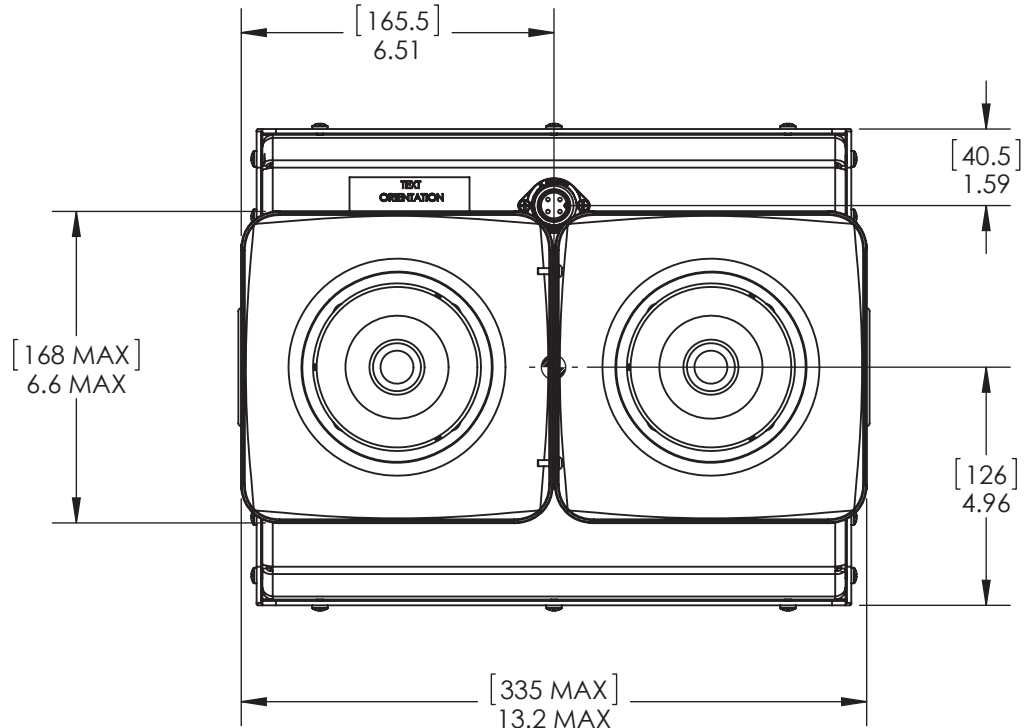
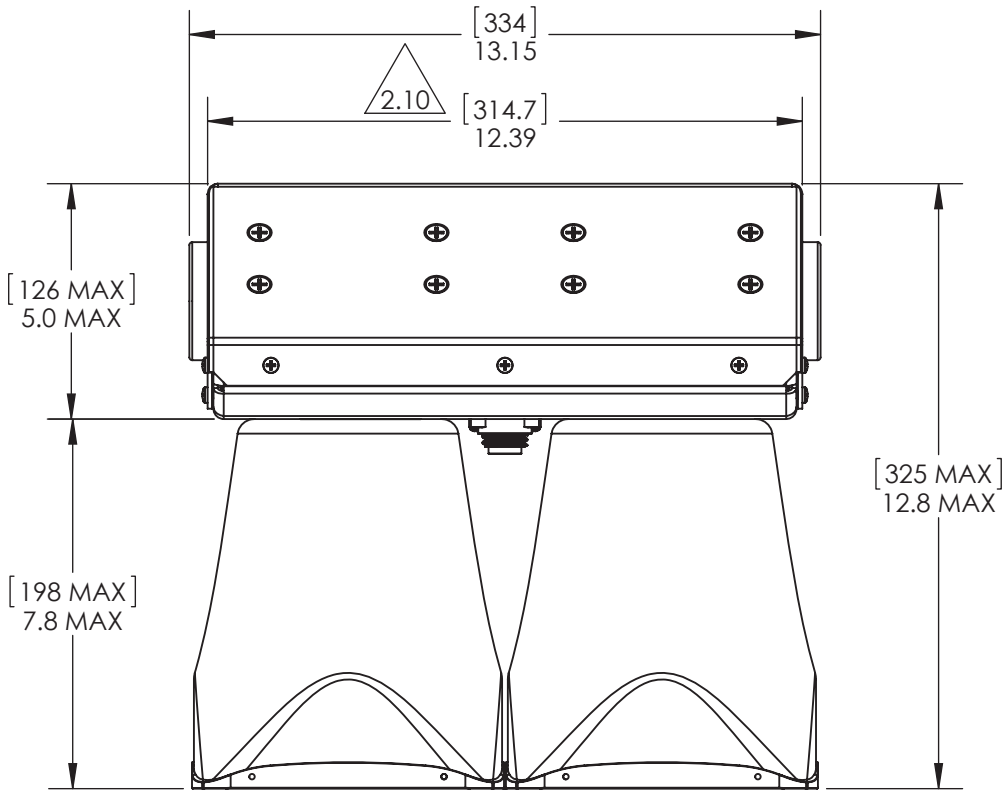
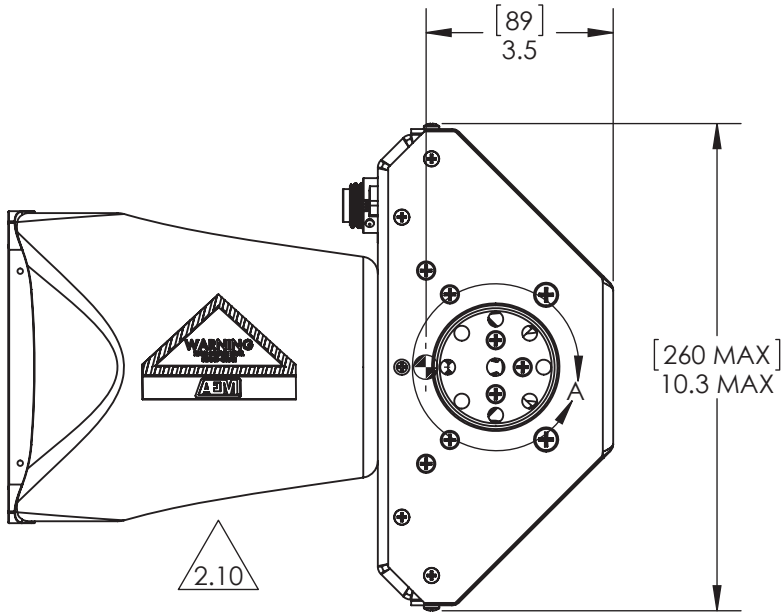
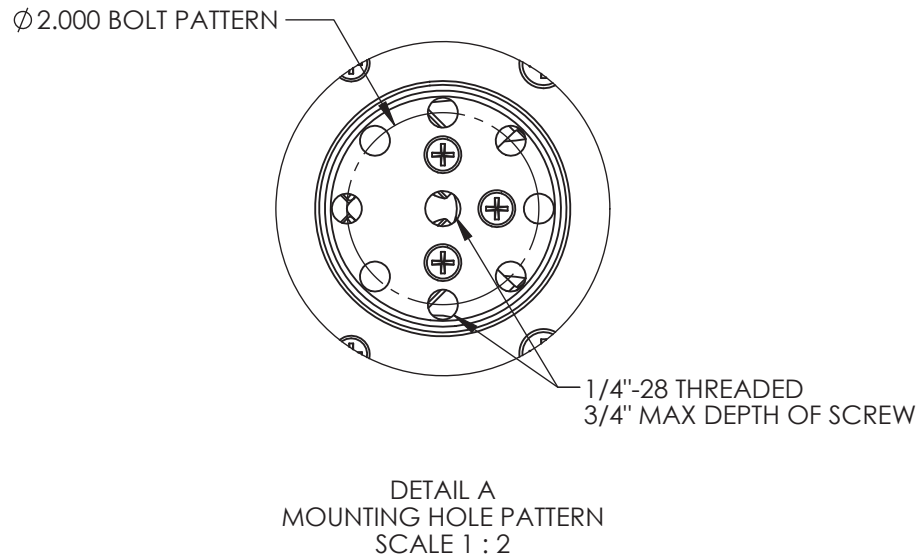
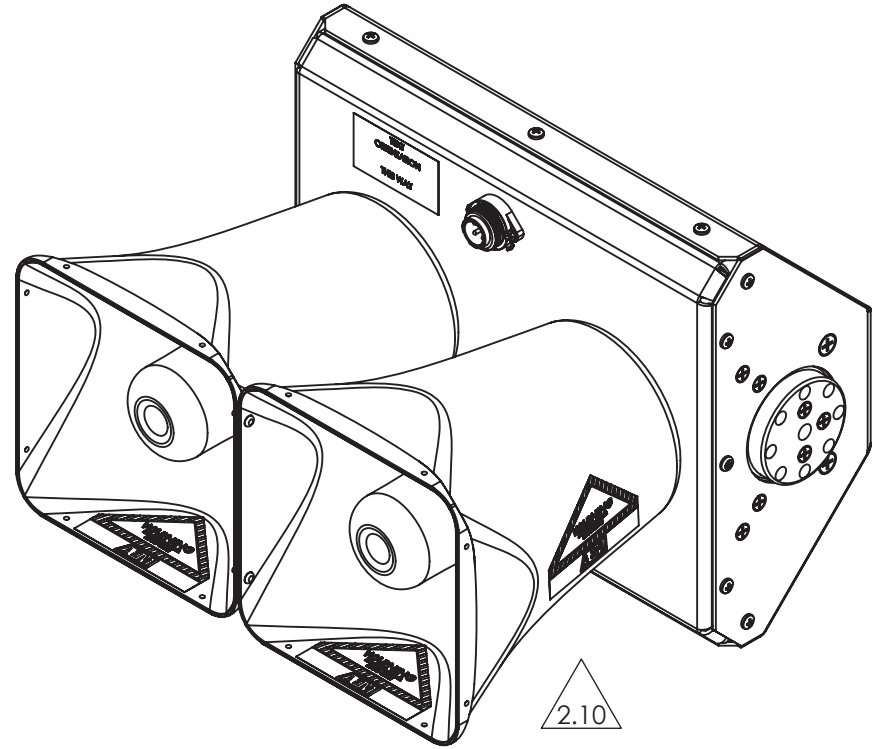


<table border="1"> <tr> <td>DRAWN</td> <td>DMF</td> <td>14-Oct-14</td> </tr> <tr> <td>CHECKED</td> <td></td> <td>8-Apr-22</td> </tr> <tr> <td>APPROVED</td> <td></td> <td>Apr 11/22</td> </tr> </table>	DRAWN	DMF	14-Oct-14	CHECKED		8-Apr-22	APPROVED		Apr 11/22	<p>UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES [MM]  TOLERANCES:  ANGULAR: ±0.5°  FRACTIONAL: ±0.0625"  ONE DECIMAL PLACE: ±0.100"  TWO DECIMAL PLACE: ±0.030"  THREE DECIMAL PLACE: ±0.010"</p>	<p>15-1925 KIRSCHNER RD.  KELOWNA BC V1Y 4N7  (250)-763-1088  WWW.AEM-CORP.COM</p>
DRAWN	DMF	14-Oct-14									
CHECKED		8-Apr-22									
APPROVED		Apr 11/22									
<p>CONFIDENTIAL AND PROPRIETARY  THE INFORMATION CONTAINED IN THIS DRAWING  IS THE SOLE PROPERTY OF ANODYNE  ELECTRONICS MANUFACTURING. ANY  REPRODUCTION IN PART OR AS A WHOLE  WITHOUT THE WRITTEN PERMISSION OF ANODYNE  ELECTRONICS MANUFACTURING IS PROHIBITED.</p>	<p>MATERIAL:  N/A</p> <p>FINISH:  N/A</p>	<p><b>AEM ANODYNE ELECTRONICS MANUFACTURING CORP.</b></p> <p>TITLE: <b>LOUD SPEAKER MECHANICAL INSTALLATION</b></p>									
<p>PAPER SIZE: <b>B</b> CAGE CODE: <b>L9015</b> PART No.: <b>LS600-200</b> REVISION: <b>2.20</b></p>		<p>SCALE: 1:4 DO NOT SCALE DRAWING DRAWING No.: 922-0 SHEET: 1 OF 1</p>									



REVISIONS			
REV.	DESCRIPTION	DATE	NAME
2.00	ECO# 1037, NEW DESIGN AFTER VIBRATION TESTING	11-Mar-15	DMF
2.10	ECO1042 - SOUND WARNING LABEL WAS REV 1.01, INCREASED OVERALL SIZE TO ACCOMMODATE COVER SIZE.	09-Jun-15	LAC

- NOTES:
1. MASS 28 lbs [12.7 kg] MAX.
  2. -●- DENOTES CENTER OF GRAVITY (est.)



NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN DMF	14-Oct-14	DIMENSIONS ARE IN INCHES [MM]
CHECKED <i>[Signature]</i>	9-Jun-15	TOLERANCES:
APPROVED <i>[Signature]</i>	Jun 10/15	ANGULAR: ±0.5°
		FRACTIONAL: ±0.0625"
		ONE DECIMAL PLACE: ±0.100"
		TWO DECIMAL PLACE: ±0.030"
		THREE DECIMAL PLACE: ±0.010"
<b>CONFIDENTIAL AND PROPRIETARY</b>		MATERIAL: N/A
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.		FINISH: N/A

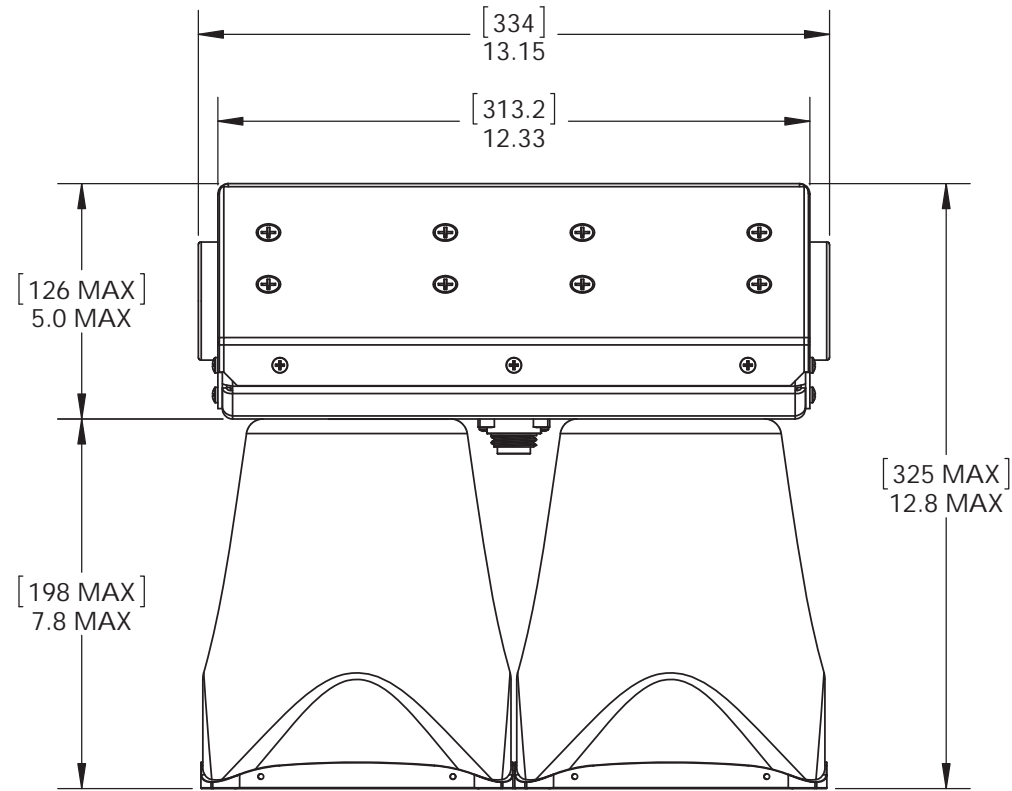
**AEM ANODYNE ELECTRONICS MANUFACTURING CORP.**

15-1925 KIRSCHNER RD.  
KELOWNA BC V1Y 4N7  
(250)-763-1088  
WWW.AEM-CORP.COM

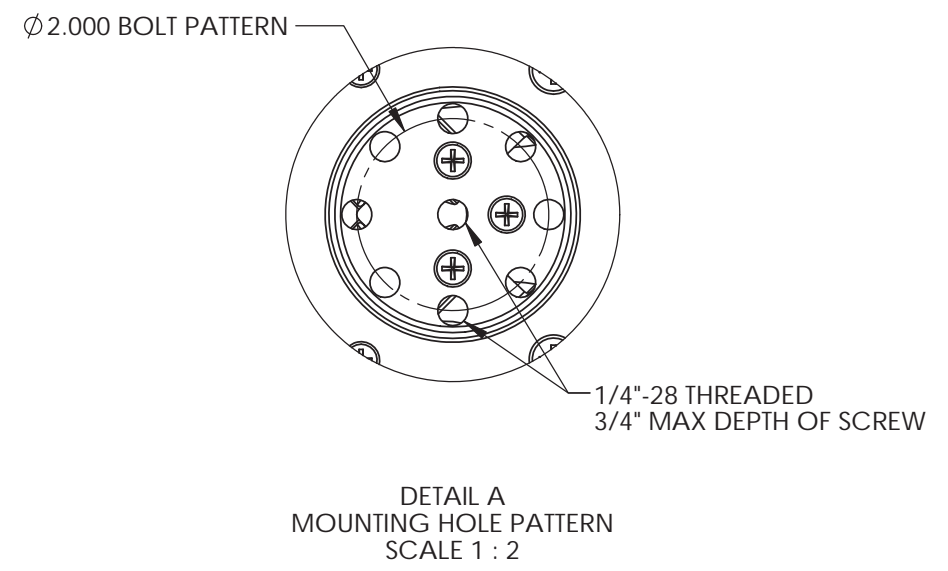
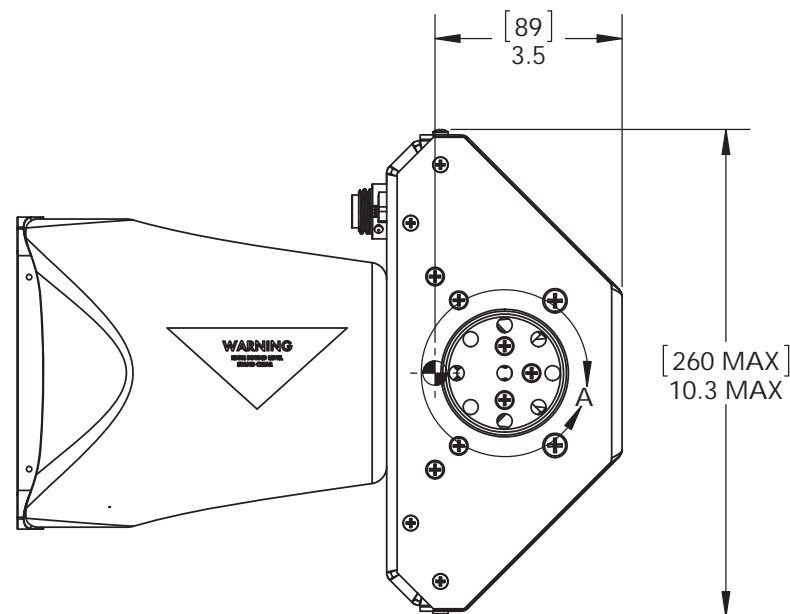
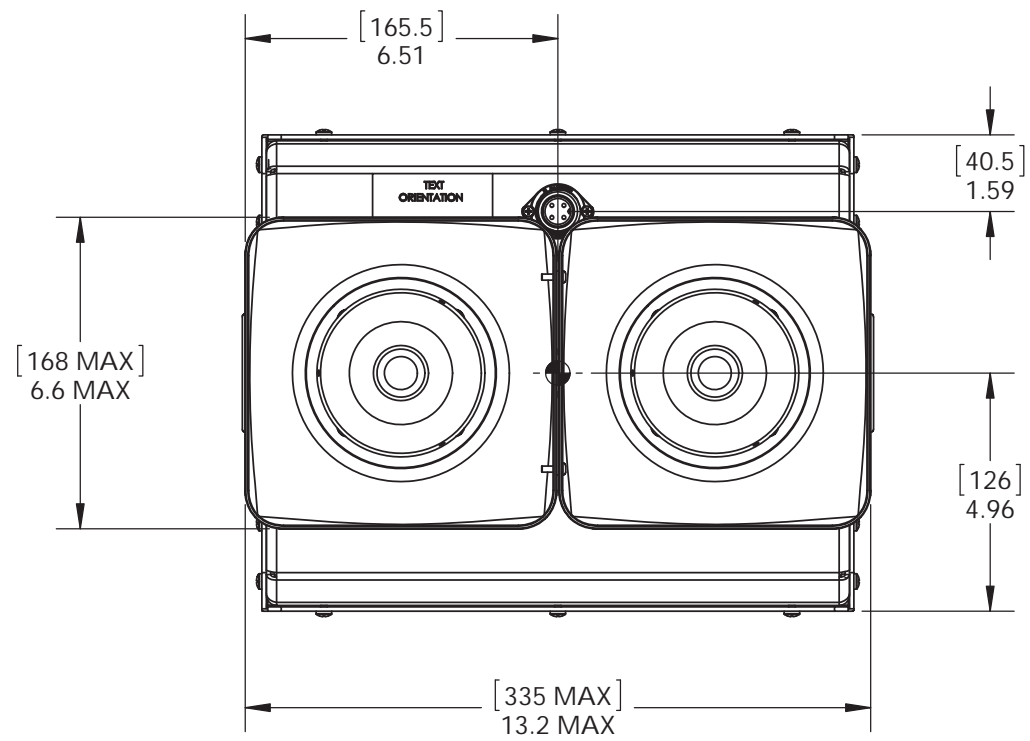
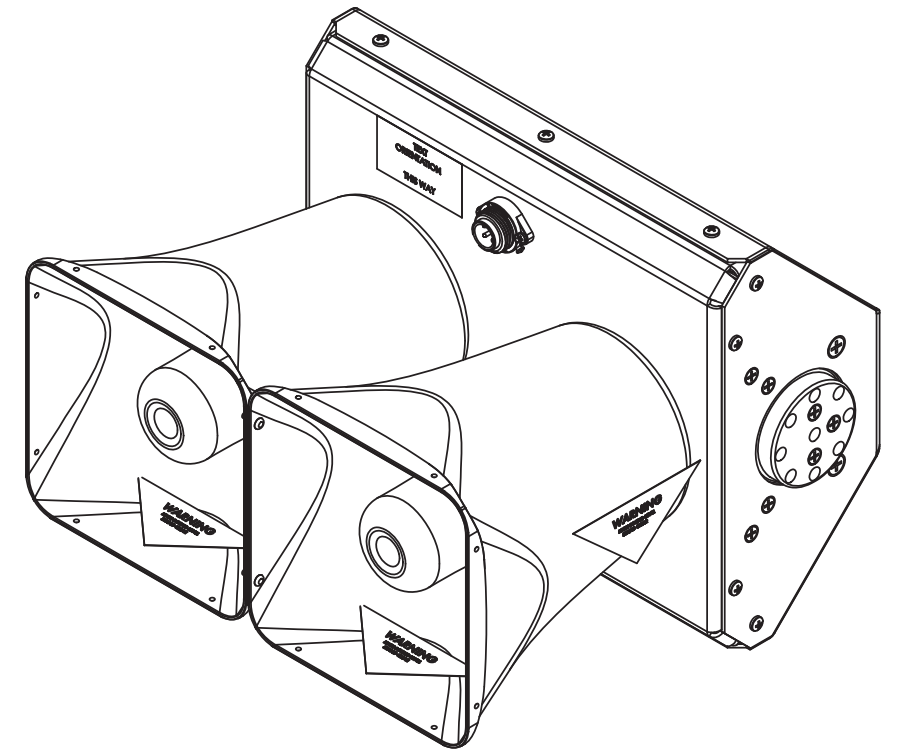
TITLE: **LOUD SPEAKER MECHANICAL INSTALLATION**

PAPER SIZE: B	CAGE CODE: L9015	PART No.: LS600-200	REVISION: 2.10
SCALE: 1:4		DO NOT SCALE DRAWING	DRAWING No.: 922-0
			SHEET: 1 OF 1

REVISIONS			
REV.	DESCRIPTION	DATE	NAME
2.00	ECO# 1037, NEW DESIGN AFTER VIBRATION TESTING	11-Mar-15	DMF



- NOTES:
1. MASS 28 lbs [12.7 kg] MAX.
  2. -●- DENOTES CENTER OF GRAVITY (est.)



NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN DMF	14-Oct-14	DIMENSIONS ARE IN INCHES [MM]
CHECKED <i>[Signature]</i>	11-Mar-15	TOLERANCES:
APPROVED <i>[Signature]</i>	Apr 8/15	ANGULAR ±0.5°
		FRACTIONAL ±0.0625"
		ONE DECIMAL PLACE ±0.100"
		TWO DECIMAL PLACE ±0.030"
		THREE DECIMAL PLACE ±0.010"
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		FINISH: N/A

**AEM ANODYNE ELECTRONICS MANUFACTURING CORP.**

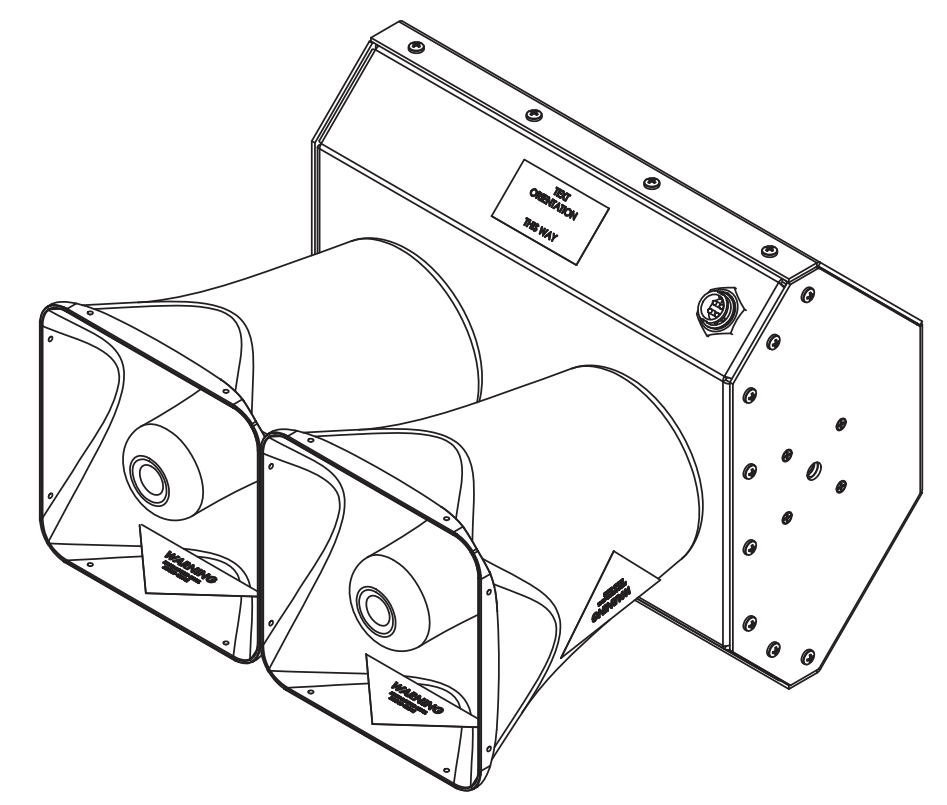
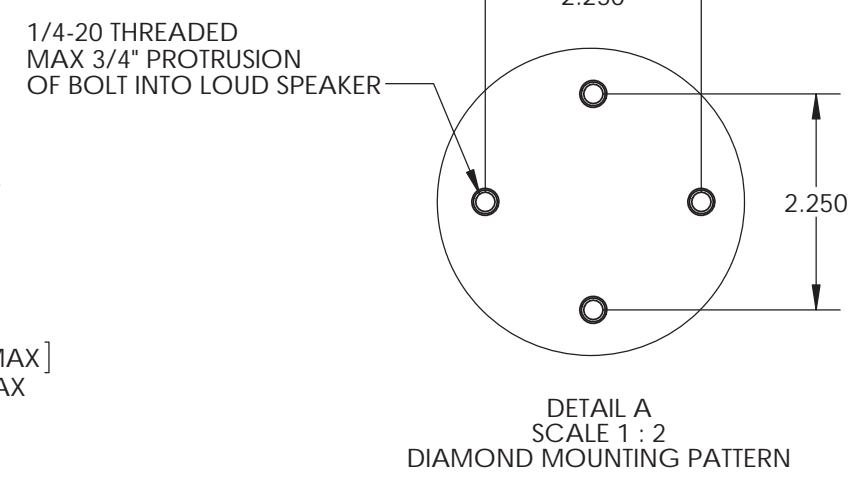
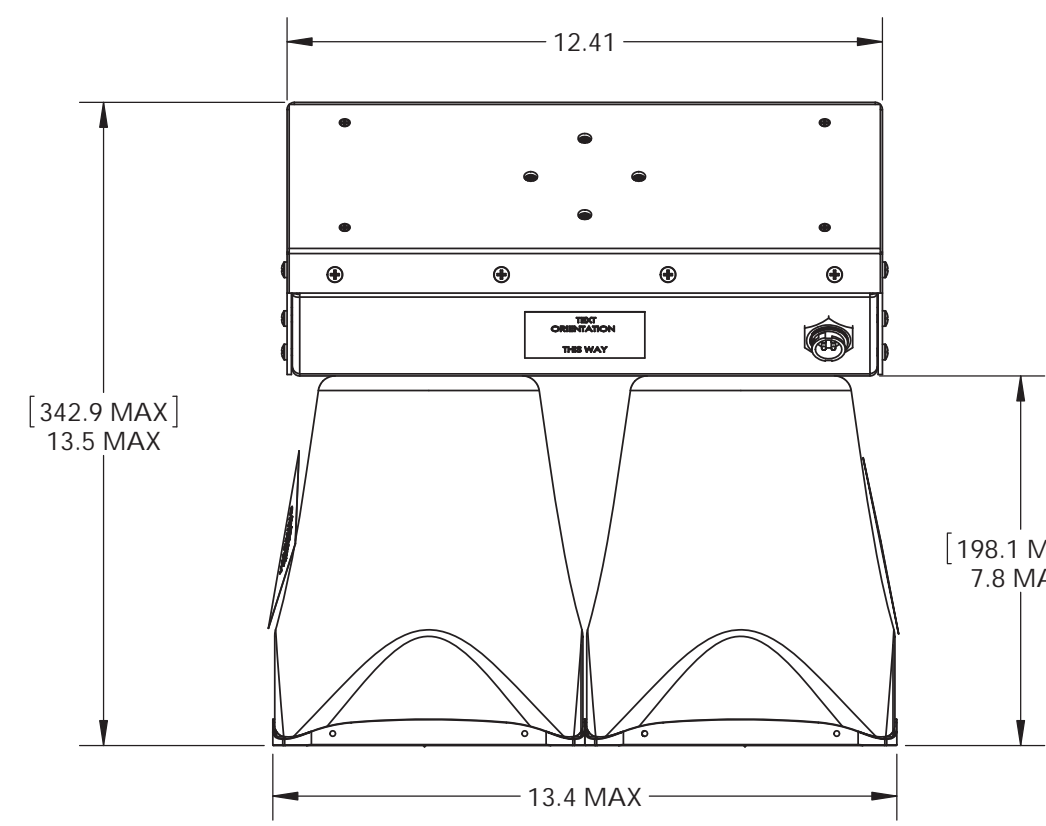
15-1925 KIRSCHNER RD. KELOWNA BC V1Y 4N7 (250)-763-1088 WWW.AEM-CORP.COM

TITLE: **LOUD SPEAKER MECHANICAL INSTALLATION**

PAPER SIZE: B	CAGE CODE: L9015	PART No.: LS600-200	REVISION: 2.00
SCALE: 1:4		DO NOT SCALE DRAWING	DRAWING No.: 922-0
			SHEET: 1 OF 1

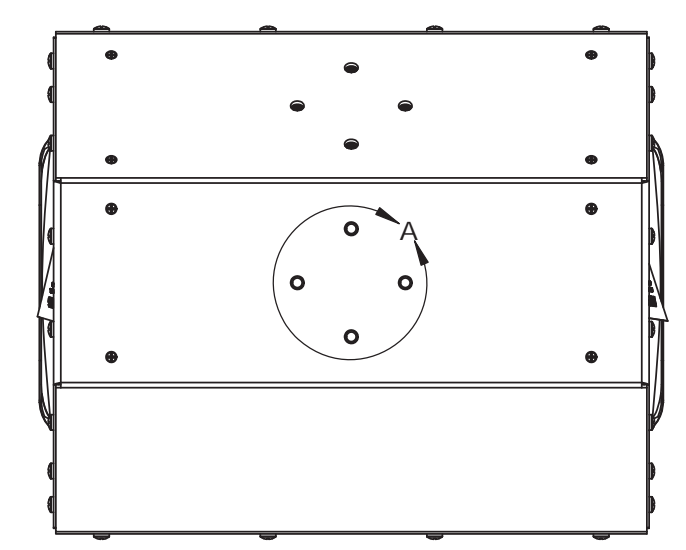
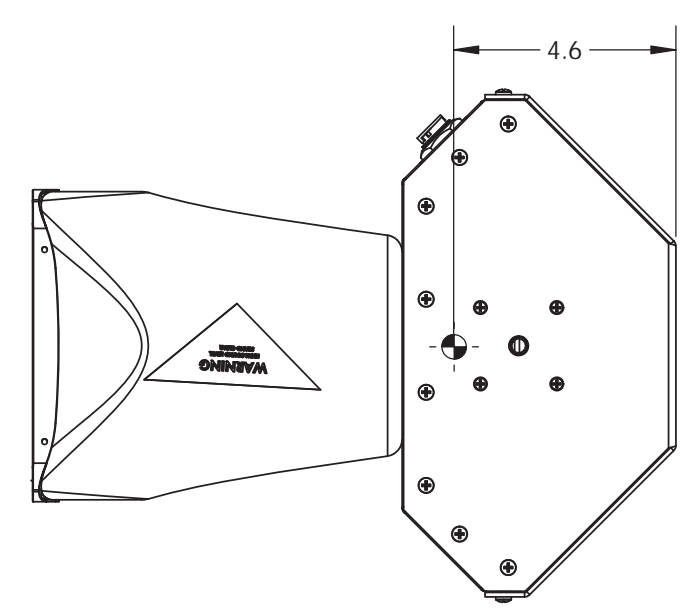
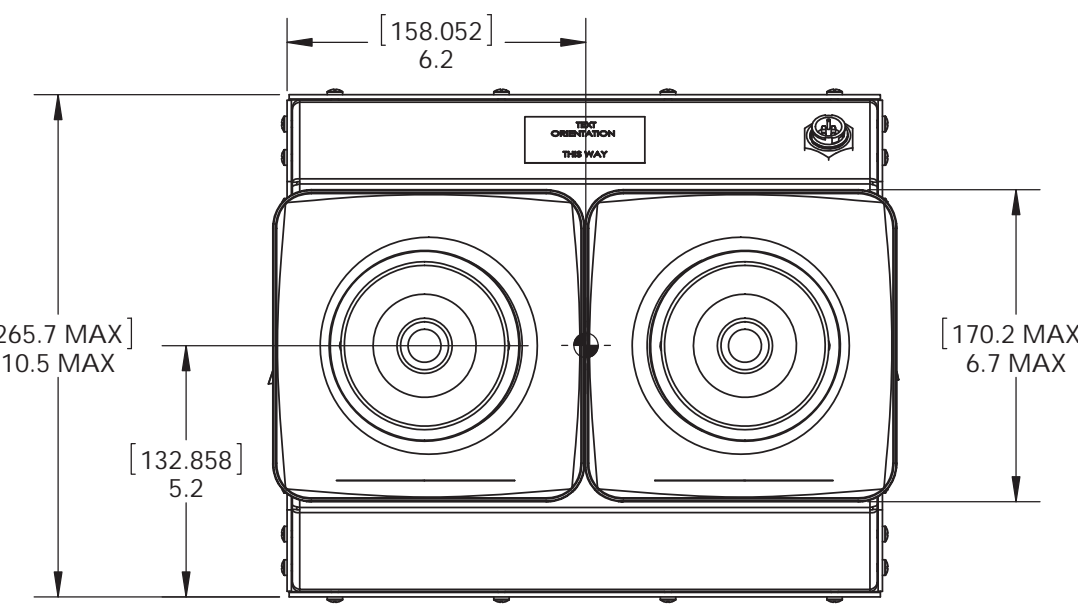
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D



D

C



C

B

B

A

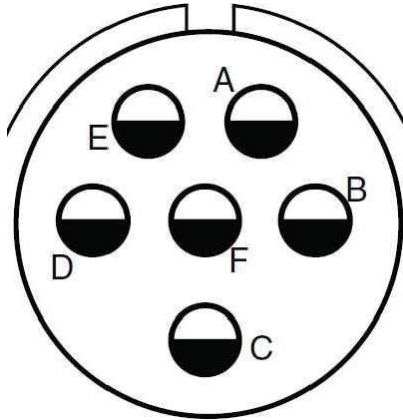
A

- Notes:
1. MASS 29 lbs [13.2 kg] MAX.
  2. DENOTES CENTER OF GRAVITY (est.)

	NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN	DMF	14-Nov-14	DIMENSIONS ARE IN INCHES [MM]
CHECKED		Dec 10/14	TOLERANCES:
APPROVED		16-Dec-14	ANGULAR _____ ±0.5°
			FRACTIONAL _____ ±0.0625"
			ONE DECIMAL PLACE _____ ±0.100"
			TWO DECIMAL PLACE _____ ±0.030"
			THREE DECIMAL PLACE _____ ±0.010"
CONFIDENTIAL AND PROPRIETARY THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ANODYNE ELECTRONICS MANUFACTURING. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ANODYNE ELECTRONICS MANUFACTURING IS PROHIBITED.			MATERIAL: N/A
			FINISH: N/A
			-

			15-1925 KIRSCHNER RD. KELOWNA BC V1Y 4N7 (250)-763-1088 WWW.AEM-CORP.COM
TITLE: LOUD SPEAKER MECHANICAL INSTALLATION			REVISION: 1.00
PAPER SIZE: B	CAGE CODE: L9015	PART No.: LS600-200	
SCALE: 1:4	DO NOT SCALE DRAWING	DRAWING No.: 922-0	SHEET: 1 OF 1




8 7 6 5 8 7 6 5



6 PIN CIRCULAR  
CONNECTOR,  
FEMALE CONTACTS


P1  
MATING CONNECTOR  
VIEW IS FROM REAR OF AIRFRAME CONNECTOR

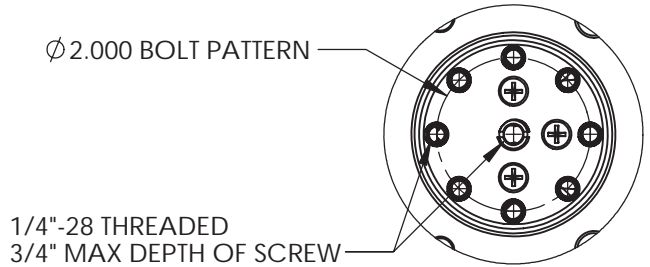
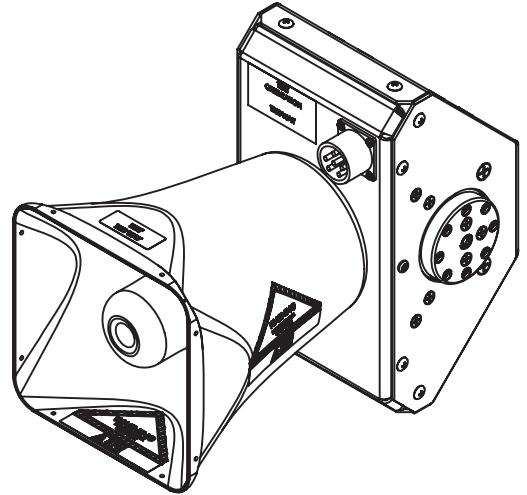
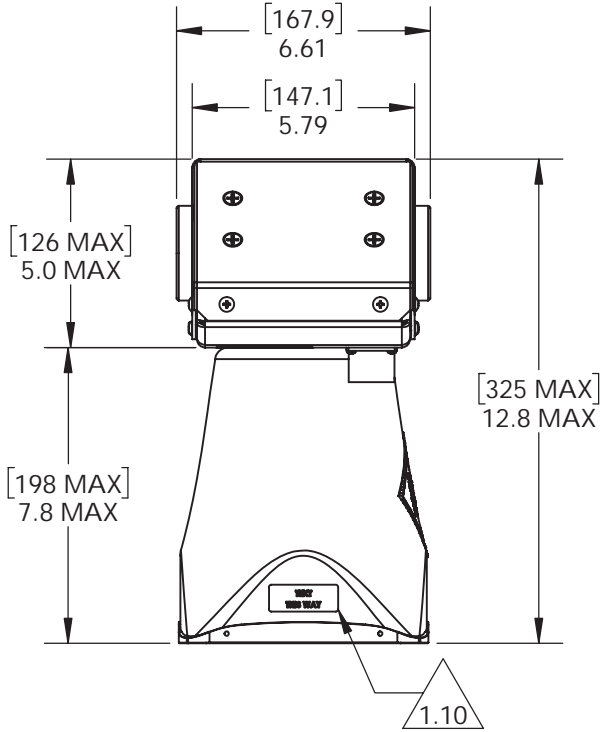
PINOUT	
A	SPEAKER HI
B	SPEAKER LO
C	N/C
D	N/C
E	N/C
F	N/C

NAME		DATE		UNLESS OTHERWISE SPECIFIED:		 <b>ANODYNE ELECTRONICS MANUFACTURING CORP.</b>		KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM				
DRAWN	RWN	20-Mar-20	DIMENSIONS ARE IN INCHES [MM]		TITLE:			LS300-201 LOUD SPEAKER CONNECTOR MAP				
CHECKED		Mar 25/20	TOLERANCES:		PAPER SIZE:		CAGE CODE		PART No.:			
APPROVED		Jun 12/20	FRACTIONAL _____ ±0.0625"		A		L9015		LS300-201			
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			FINISH:		DO NOT SCALE DRAWING		DRAWING No.: 405-0		REVISION		SHEET:1 of 1	
			NA		DO NOT SCALE DRAWING		DRAWING No.: 405-0		1.00			

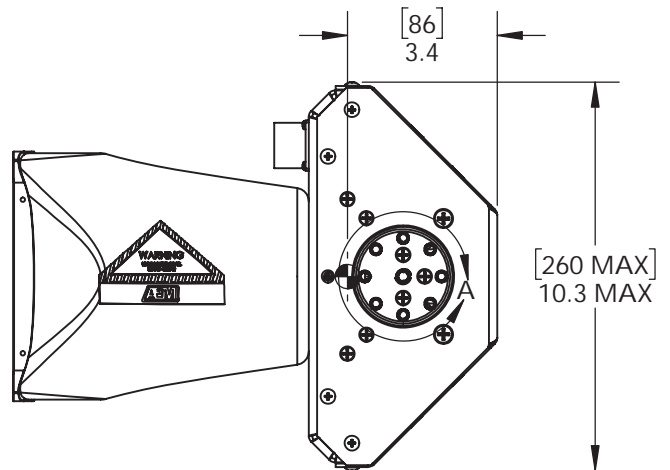
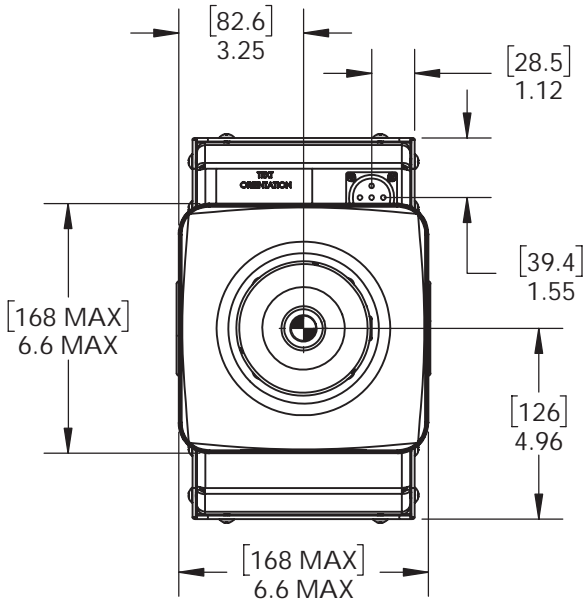
REVISIONS			
REV.	DESCRIPTION	DATE	NAME
1.10	ECO# 1130 - SECURING RE-ENTRANT TIPS, NEW WARNING LABEL.	08-Apr-22	DMF


NOTES:

1. MASS 15 lb [6.8 kg] MAX.
2.  DENOTES CENTER OF GRAVITY (est.)




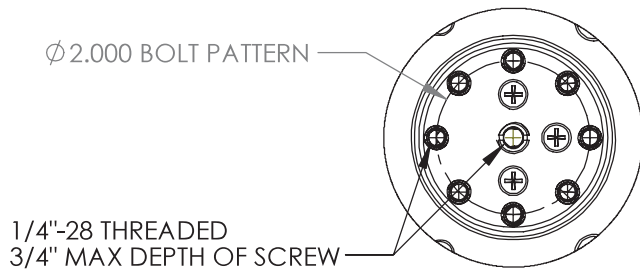
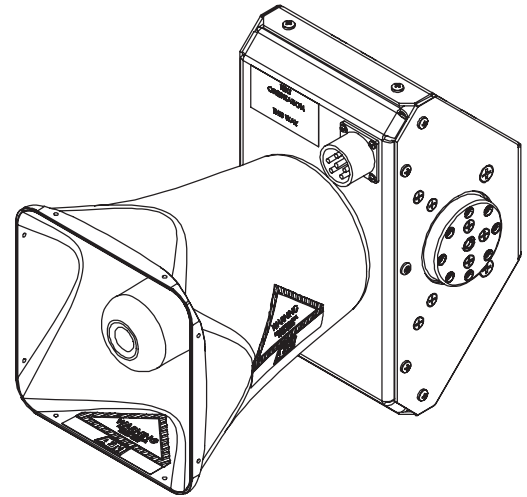
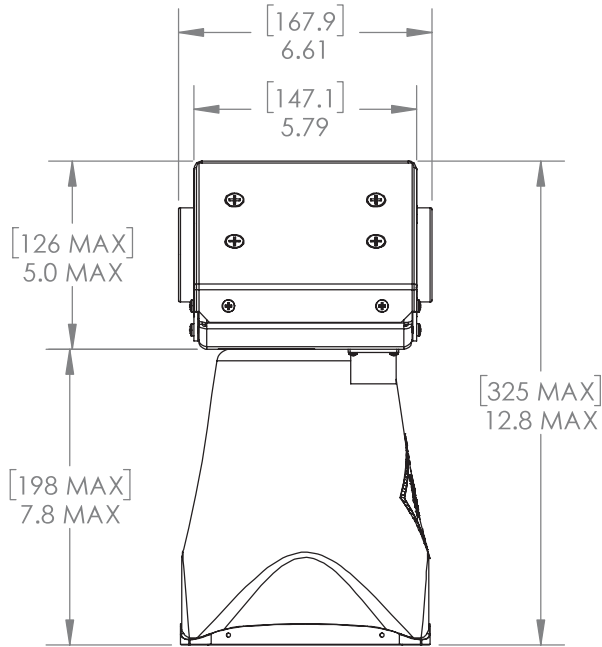
DETAIL A  
MOUNTING HOLE PATTERN  
SCALE 2 : 5



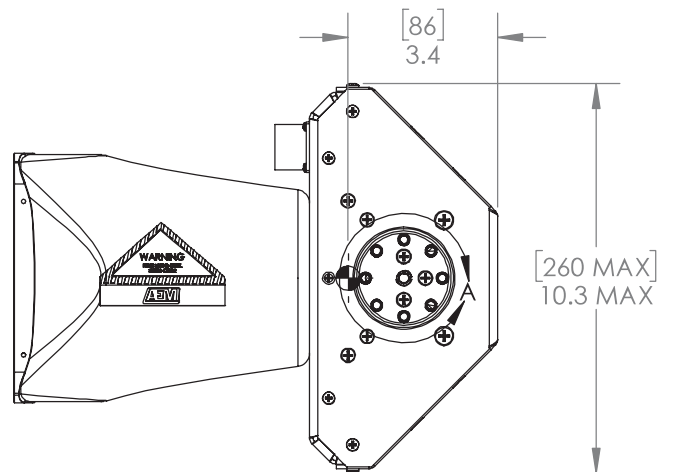
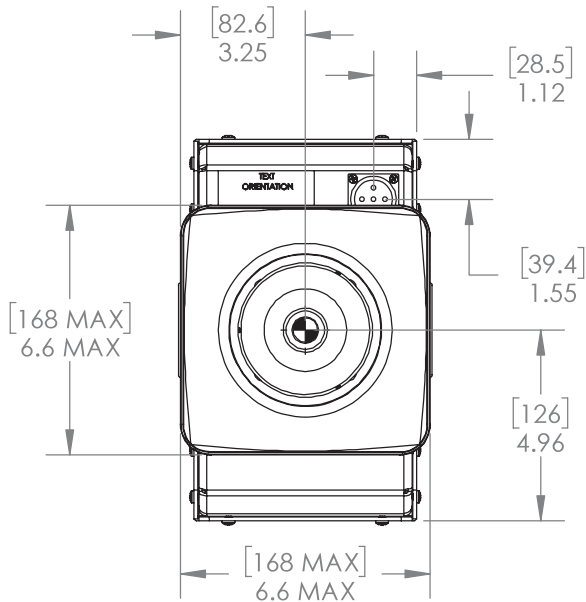
NAME		DATE		UNLESS OTHERWISE SPECIFIED:		 <b>ANODYNE ELECTRONICS MANUFACTURING CORP.</b>		15-1925 KIRSCHNER RD. KELOWNA BC V1Y 4N7 (250)-763-1088 WWW.AEM-CORP.COM							
DRAWN		04-Mar-20		DIMENSIONS ARE IN INCHES [MM]											
CHECKED		8-Apr-22		TOLERANCES:		<b>LOUD SPEAKER MECHANICAL INSTALLATION</b>									
APPROVED		Apr 11/22		ANGULAR ±0.5°											
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		FINISH:		N/A		A		L9015		LS300-201		1.10			
SCALE: 1:5				DO NOT SCALE DRAWING				DRAWING No. : 922-0				SHEET: 1 OF 1			

NOTES:

1. MASS 15 lbs [6.8 kg] MAX.
2.  DENOTES CENTER OF GRAVITY (est.)



DETAIL A  
MOUNTING HOLE PATTERN  
SCALE 2 : 5



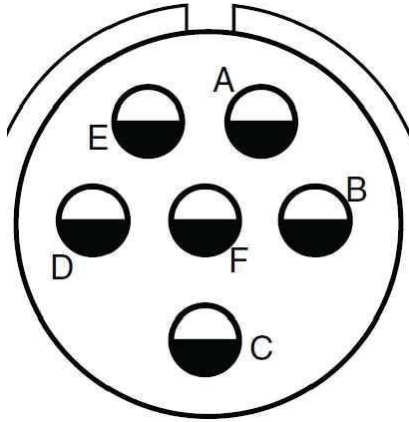
NAME	DATE	UNLESS OTHERWISE SPECIFIED:
RWN	04-Mar-20	DIMENSIONS ARE IN INCHES [MM]
CHECKED	Mar 12/20	TOLERANCES:
APPROVED	May 14/20	ANGULAR $\pm 0.5^\circ$
		FRACTIONAL $\pm 0.0625''$
		ONE DECIMAL PLACE $\pm 0.100''$
		TWO DECIMAL PLACE $\pm 0.030''$
		THREE DECIMAL PLACE $\pm 0.010''$
<b>CONFIDENTIAL AND PROPRIETARY</b>		MATERIAL:
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		FINISH:
		N/A



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TITLE: <b>LOUD SPEAKER MECHANICAL INSTALLATION</b>			
PAPER SIZE: <b>A</b>	CAGE CODE: <b>L9015</b>	PART No. : <b>LS300-201</b>	REVISION: <b>1.00</b>
SCALE: 1:5	DO NOT SCALE DRAWING	DRAWING No. : 922-0	SHEET: 1 OF 1



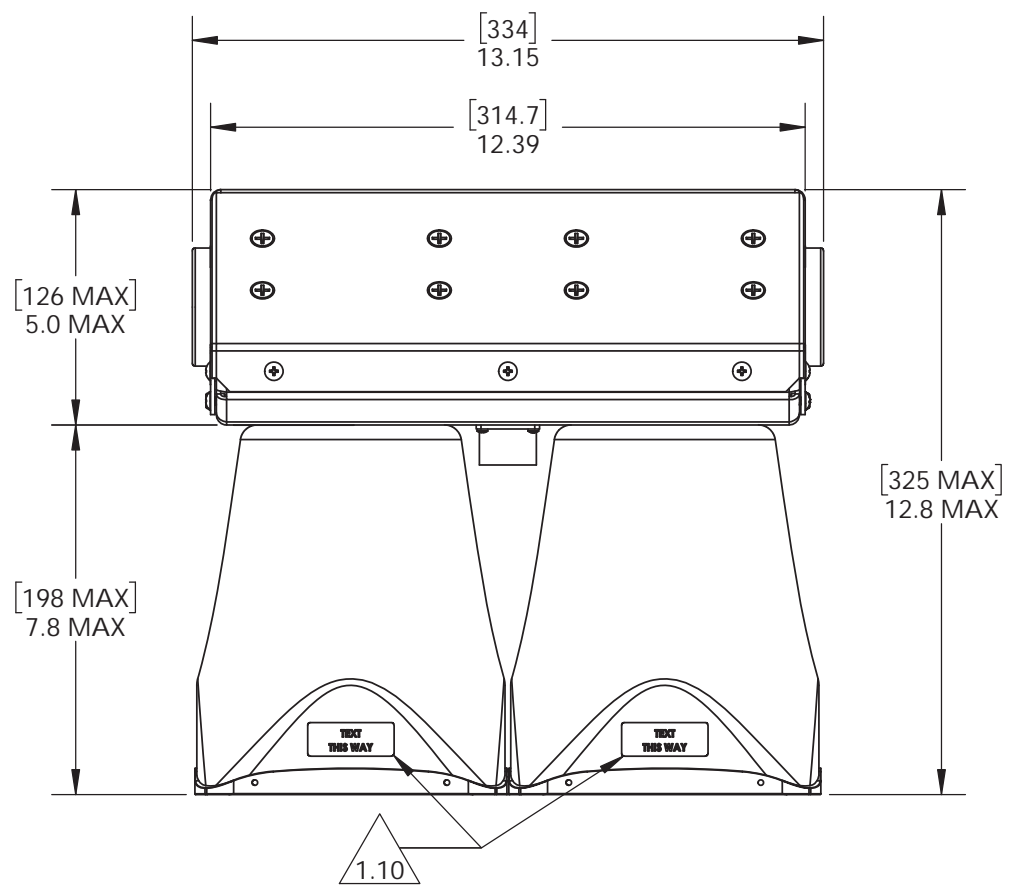
6 PIN CIRCULAR  
CONNECTOR,  
FEMALE CONTACTS

P1  
MATING CONNECTOR  
VIEW IS FROM REAR OF AIRFRAME CONNECTOR

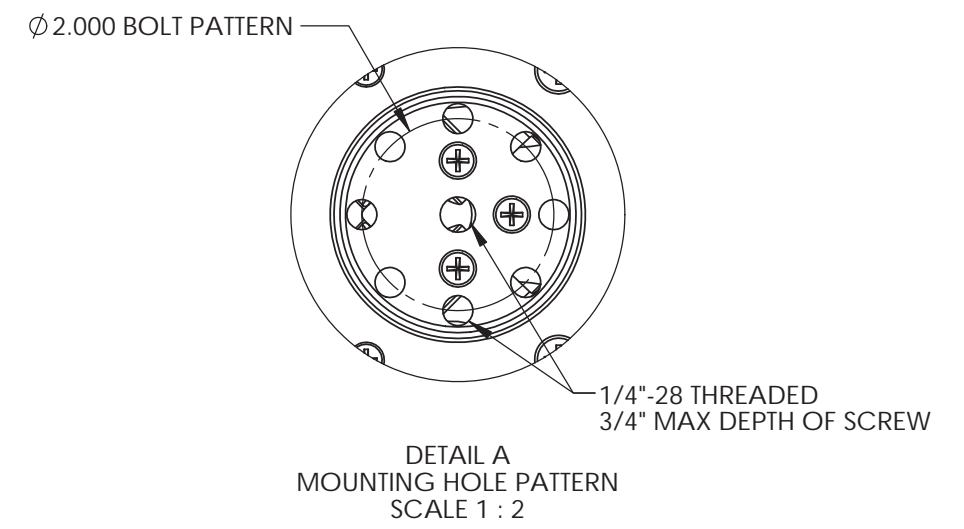
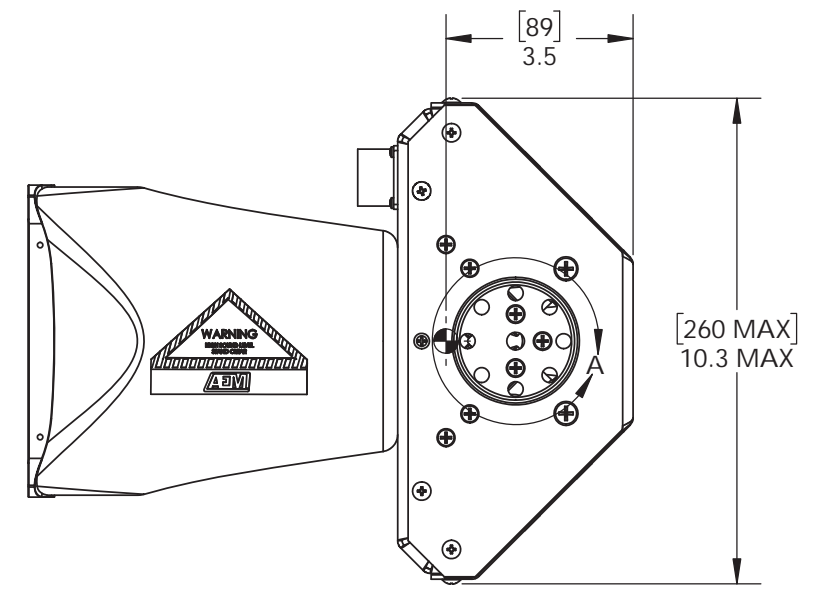
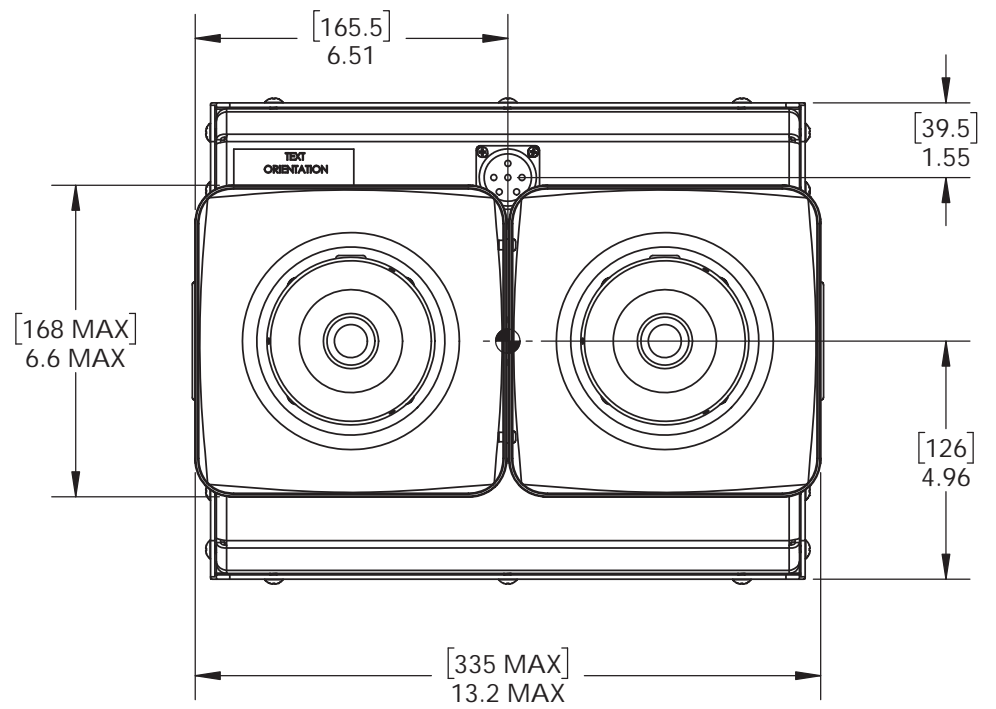
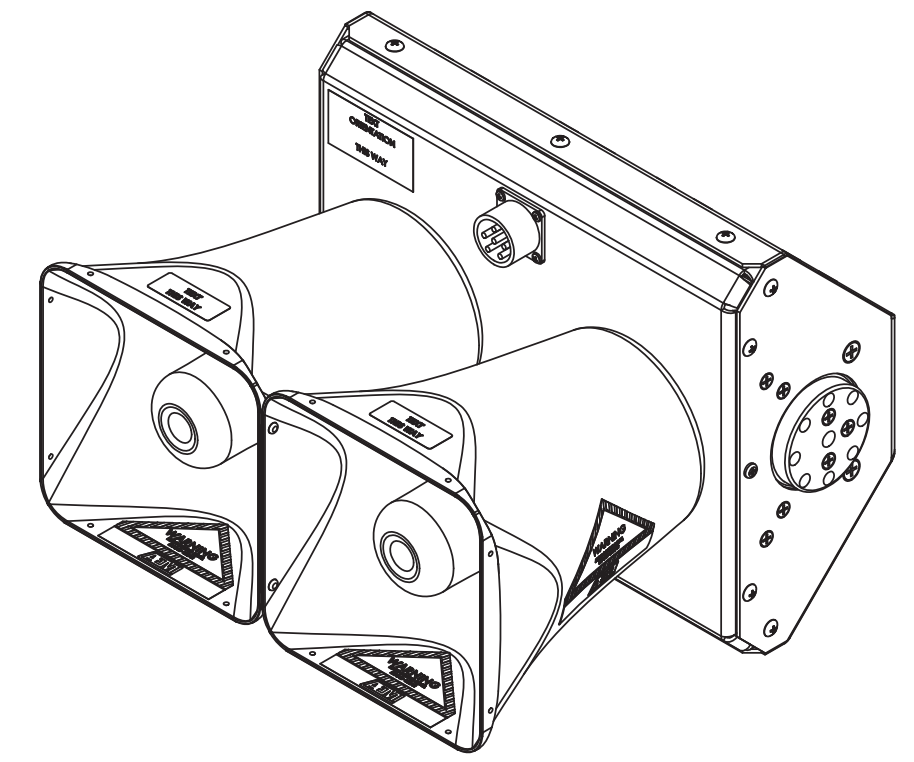
PINOUT	
A	SPEAKER 1 HI
B	SPEAKER 1 LO
C	N/C
D	SPEAKER 2 LO
E	SPEAKER 2 HI
F	N/C

NAME		DATE	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [MM] TOLERANCES: FRACTIONAL _____ ±0.0625" ANGULAR _____ ±0.5° TWO DECIMAL PLACE _____ ±0.010" THREE DECIMAL PLACE _____ ±0.005"	 <b>ANODYNE ELECTRONICS MANUFACTURING CORP.</b>	KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM		
DRAWN	RWN	26-Mar-20			TITLE: LS600-201 LOUD SPEAKER CONNECTOR MAP		
CHECKED		Mar 26/20			PAPER SIZE: A	CAGE CODE: L9015	PART No.: LS600-201
APPROVED		May 27/21	MATERIAL: NA		DRAWING No.: 405-0		
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REVISIONS			
REV.	DESCRIPTION	DATE	NAME
1.10	ECO# 1130 - SECURING RE-ENTRANT TIPS, NEW WARNING LABEL.	08-Apr-22	DMF



- NOTES:
1. MASS 28 lb [12.7 kg] MAX.
  2. DENOTES CENTER OF GRAVITY (est.)



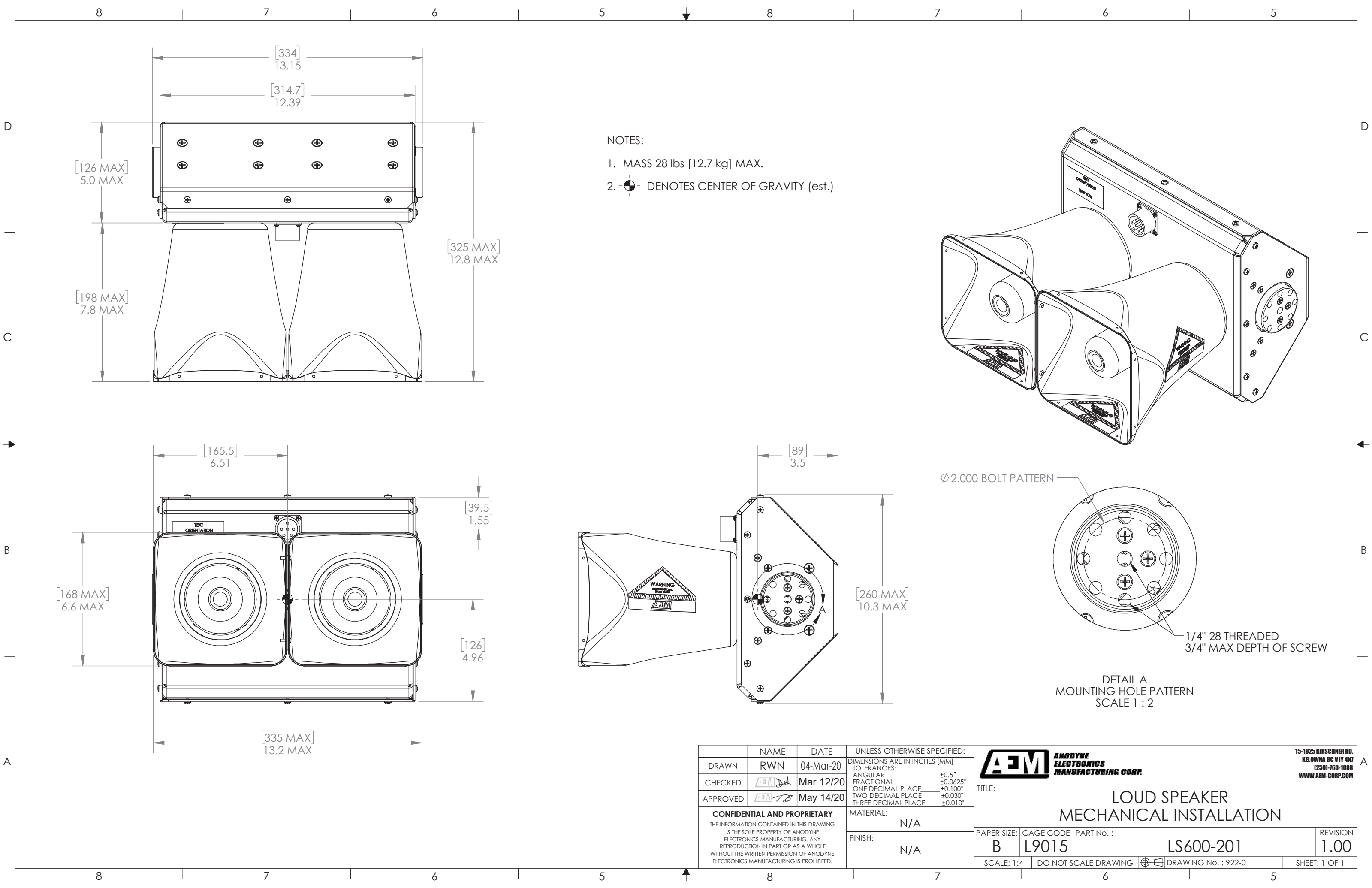
NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN: RWN	04-Mar-20	DIMENSIONS ARE IN INCHES [MM]
CHECKED:	8-Apr-22	TOLERANCES:
APPROVED:	Apr 11/22	ANGULAR: ±0.5°
		FRACTIONAL: ±0.0625"
		ONE DECIMAL PLACE: ±0.100"
		TWO DECIMAL PLACE: ±0.030"
		THREE DECIMAL PLACE: ±0.010"
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		FINISH: N/A

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**LOUD SPEAKER MECHANICAL INSTALLATION**

PAPER SIZE: B	CAGE CODE: L9015	PART No.: LS600-201	REVISION: 1.10
SCALE: 1:4		DO NOT SCALE DRAWING	DRAWING No.: 922-0
			SHEET: 1 OF 1





NOTES:

1. MASS 28 lbs [12.7 kg] MAX.
2. -●- DENOTES CENTER OF GRAVITY (est.)

	NAME	DATE	UNLESS OTHERWISE SPECIFIED:
DRAWN	RWN	04-Mar-20	DIMENSIONS ARE IN INCHES [MM]
CHECKED		Mar 12/20	TOLERANCES:
APPROVED		May 14/20	ANGULAR: ±0.5°
			FRACTIONAL: ±0.0625"
			ONE DECIMAL PLACE: ±0.100"
			TWO DECIMAL PLACE: ±0.030"
			THREE DECIMAL PLACE: ±0.010"
<b>CONFIDENTIAL AND PROPRIETARY</b>			MATERIAL:
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			FINISH:
			N/A

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15-1925 KIRSCHNER RD.  
KELOWNA BC V1Y 4N7  
(250)-763-1088  
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TITLE: **LOUD SPEAKER MECHANICAL INSTALLATION**

PAPER SIZE: B	CAGE CODE: L9015	PART No. : LS600-201	REVISION: 1.00
SCALE: 1:4	DO NOT SCALE DRAWING	DRAWING No. : 922-0	SHEET: 1 OF 1



## LSxxx Series High Power Loud Speaker Installation and Operation Manual

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### Section 3.0 Operation

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#### 3.1 Operation Specifics

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The LSxxx Series High Power Loud Speaker has no normal user operational aspects.

End of Section 3.0

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