



AEM LSC22-003N Loudspeaker Controller Instruction Manual

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LSC22-003N Loudspeaker Controller
Instruction Manual



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LSC22-003N Loudspeaker Controller

LSC22-003N Loudspeaker Controller ASM-LSC22 Installation and Operation Manual Supplement
This supplement contains installation and operation information that is unique to the LSC22-003N Loudspeaker Controller. Installation and operation information common to the LSC22-001 base unit can be found in the ASM-LSC22 Installation and Operation Manual.

Prepared By:  Derrick Formosa Mechanical Designer 02-Dec-21	Checked By:  Steve Kempf Designer Dec 2/21	 Tom Betzelt Product Support Manager Dec 2/21	Approved By:  Ron Briggs RD Manager Designate 02-Dec-21
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Section 1.0 Description

The LSC22-003N Loudspeaker Controller is identical to the LSC22-001 with the following exceptions:
a) Changes to the faceplate text can be found by comparing Figure 1 to Figure 2.



Figure 1: LSC22-001



Figure 2: LSC22-003N

- b) The LSC22-003N has NVIS Green A compliant backlighting.
c) The INT PA speaker level output is replaced by a mic level CABIN PA MIC output.

Cabin PA Mic Output	(CABIN PA MIC)
Quantity:	1
Circuit Type:	Single-Ended
Rated Level:	250 mVrms ± 10%
Rate Load Impedance:	600 Ohms ± 10%
Output Impedance:	≤ 75 Ohms
Frequency Response:	≤ 3 dB from 200 Hz to 6 kHz
Distortion:	≤ 10% @ rated output
Audio Noise Level:	≥ 60 dB from rated output

d) A new discrete output EXT/INT outputs a ground when front panel EXT PA is selected.

Ext/Int Discrete	(EXT/INT)
Quantity:	1
Rated Level:	Gnd (active low)
Output Active:	≤ 1 Vdc
Sink Current:	250 mA maximum

e) Power switch function on the front panel is removed. When power is applied to the LSC22-003N, the unit is powered on without any other action.

Section 2.0 Installation

For installation information and drawings, see ASM-LSC22 Section 2.0. Select the appropriate revision of the drawing for the serial number of the unit. The drawings specific to this derivative are listed below and can be found at the end of this supplement.

2.1 Installation Drawings

DOCUMENT	REV.	DESCRIPTION	TYPE	SERIAL NO.
Part No.				
LSC22-003N-403-0	1.10	Loudspeaker Controller	Interconnect	93348 and up
LSC22-003N-403-0	1.00	Loudspeaker Controller	Interconnect	70938-93347
LSC22-003N-405-0	1.00	Loudspeaker Controller	Connector Map	70938 and up
LSC22-003N-922-0	1.00	Loudspeaker Controller	Mechanical Installation	70938 and up

Section 3.0 Operation

For operation information, see ASM-LSC22 Section 3.0 with the following exceptions:

- a) References to INT PA should now be referenced as CABIN PA MIC.
 - b) When the EXT PA/INT PA switch is set to the EXT PA position, a ground is output on EXT/INT.
 - c) There is no front panel On/Off control in the detent position, unit is always on with power applied. However, the physical detent position on the control still exists.
- Audio output remains at a minimum whether the volume knob is set ccw to the detent or fully ccw into the detent position.



Message 3 and Siren audio programming now require the power input to the LSC22 be removed and is not dependent on the VOL knob position.

REVISIONS			
REV	DESCRIPTION	DATE	BY
1.10	RAS #997 – MODIFY EQUIPMENT LIST FOR OBSOLESCENCE	AUG 24/21	DMF

LSC22-003N INSTALLATION NOTES

NOTES:

1. ALL WIRES SHOULD BE 22 AWG UNLESS OTHERWISE SPECIFIED. ALL UNSHIELDED WIRE SHALL BE SELECTED IN ACCORDANCE WITH AC43.13-1B CHANGE 1, PARAGRAPHS 11-76 THROUGH 11-78. WIRE TYPES SHOULD BE TO MIL-W-22759 AS SPECIFIED IN AC43.13-1B CHANGE 1, PARAGRAPHS 11-85, 11-86 AND LISTED IN TABLE 11-11. ALL SHIELDED WIRE/CABLE SHOULD BE IN ACCORDANCE WITH MIL-C-27500.
2. CABLE LENGTH NOT TO EXCEED 30 FT [9.14 1.1], UNLESS OTHERWISE SPECIFIED.
3. CABLE LENGTH NOT TO EXCEED 1 FT [0.3 M].
4. SYSTEM CROSSTALK MAY BE EFFECTED BY STYLE OF HEADSET AND JACK. CHECK SPECIFICATIONS AND SYSTEM REQUIREMENTS BEFORE SELECTING AND INSTALUNG.
5. CABLE LENGTH NOT TO EXCEED 3.3 FT [1.0 MI]
6. SHIELDS SHOULD BE GROUNDED TO LOCAL AIRFRAME GROUND, UNLESS OTHERWISE SPECIFIED. SHIELD TERMINATION LENGTH NOT TO EXCEED 1 FT [0.3 M].
7. REFERENCE SHEET 3 FOR AMPLIFIER WIRING CONFIGURATIONS.
8. +26.5VDC SUPPUED AT 0.4 AMPS MAX.
9. REFER TO LSC22 INSTALLATION & OPERATION MANUAL FOR OUTPUT LEVEL CONFIG SWITCH SETTING.
10. APPLY GROUND TO REDUCE SPEAKER & EXT PA OUTPUTS BY 3DB.
11. ONLY +28VDC LIGHTS OR +5VDC UGHTS MAY BE USED AT ONE TIME.
12. PROVIDES GROUND IN EXT PA FRONT PANEL SWITCH POSITION.




DEFINTIONS

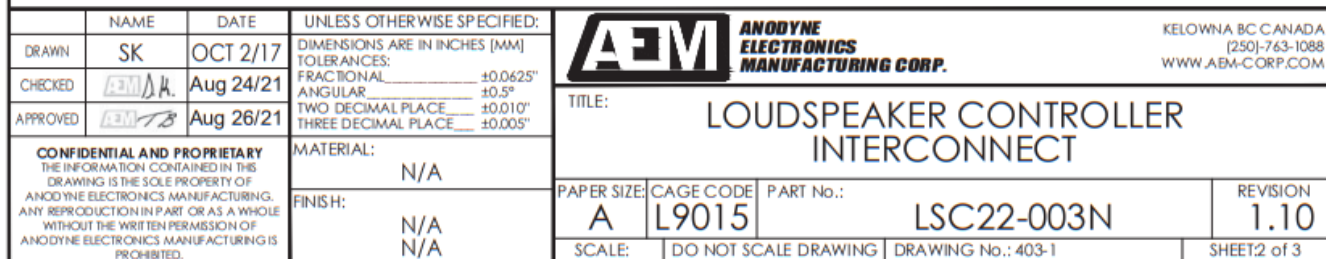
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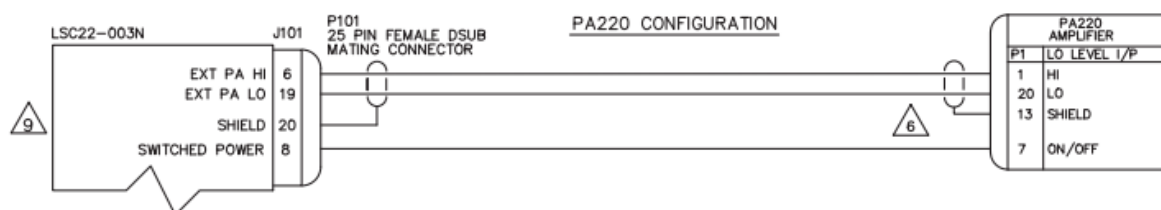
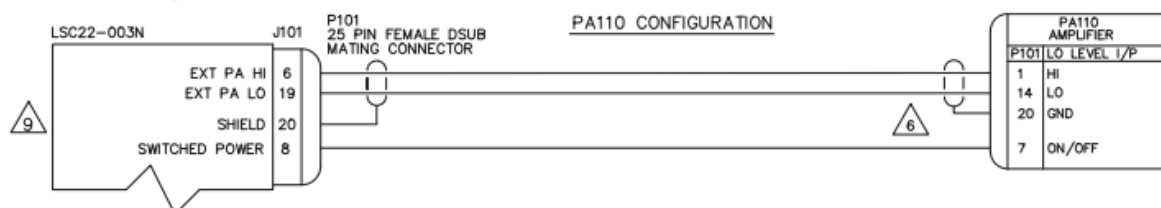
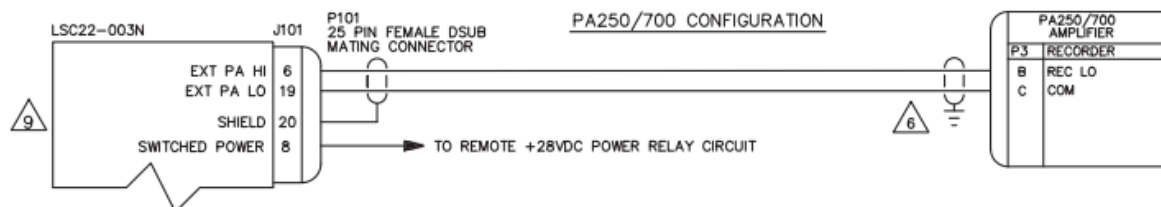
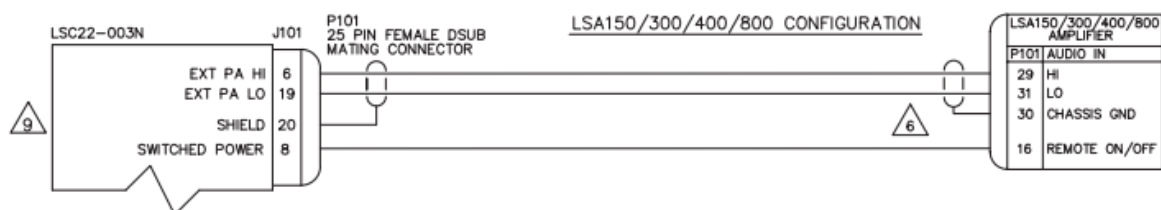
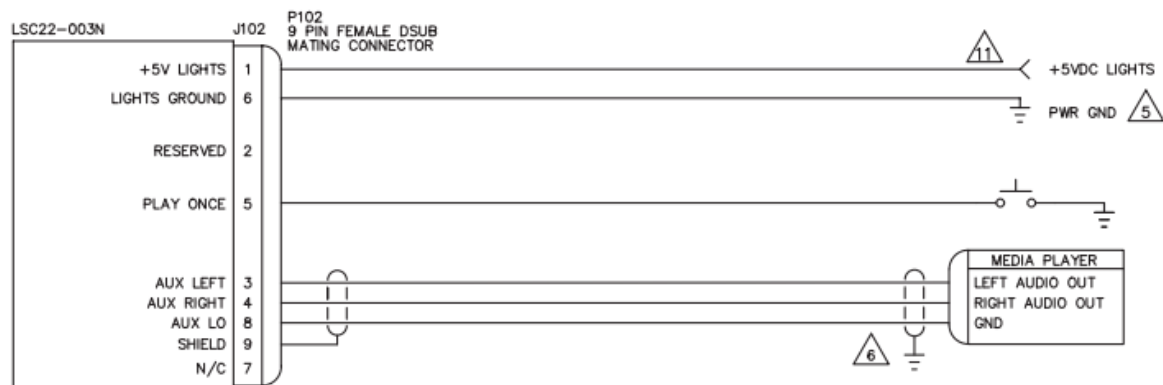
N/C SPARE: NO CONNECTION INTERNALLY, BUT A SPARE WIRE SHALL BE INSTALLED IN THE WIRE HARNESS.




RESERVED: MAY BE CONNECTED AND USED IN THE FUTURE. THE CIRCUITRY MAY BE PRESENT OR ADDED TO ACTIVATE THE FUNCTION. THE PIN MAY BE USED FOR TEST PURPOSES. THFRF IS NO FXTFRNAI CONNECTION

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	NAME	DATE	UNLESS OTHERWISE SPECIFIED:	<div><div></div><div>ANODYNE ELECTRONICS MANUFACTURING CORP.</div></div> <div>KELOWNA BC CANADA (250)-763-1088 WWW.AEM-CORP.COM</div>			
DRAWN	SK	OCT 2/17	DIMENSIONS ARE IN INCHES [MM] TOLERANCES: FRACTIONAL _____ ±0.0625" ANGULAR _____ ±0.5° TWO DECIMAL PLACE _____ ±0.010" THREE DECIMAL PLACE _____ ±0.005"	TITLE: LOUDSPEAKER CONTROLLER INTERCONNECT			
CHECKED	 A.K.	Aug 24/21					
APPROVED	 [Signature]	Aug 26/21					
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:	PAPER SIZE: CAGE CODE PART No.: REVISION			
			N/A				A L9015 LSC22-003N 1.10
			FINISH:	SCALE: DO NOT SCALE DRAWING DRAWING No.: 403-0 SHEET:1 of 3			
			N/A				
			N/A				





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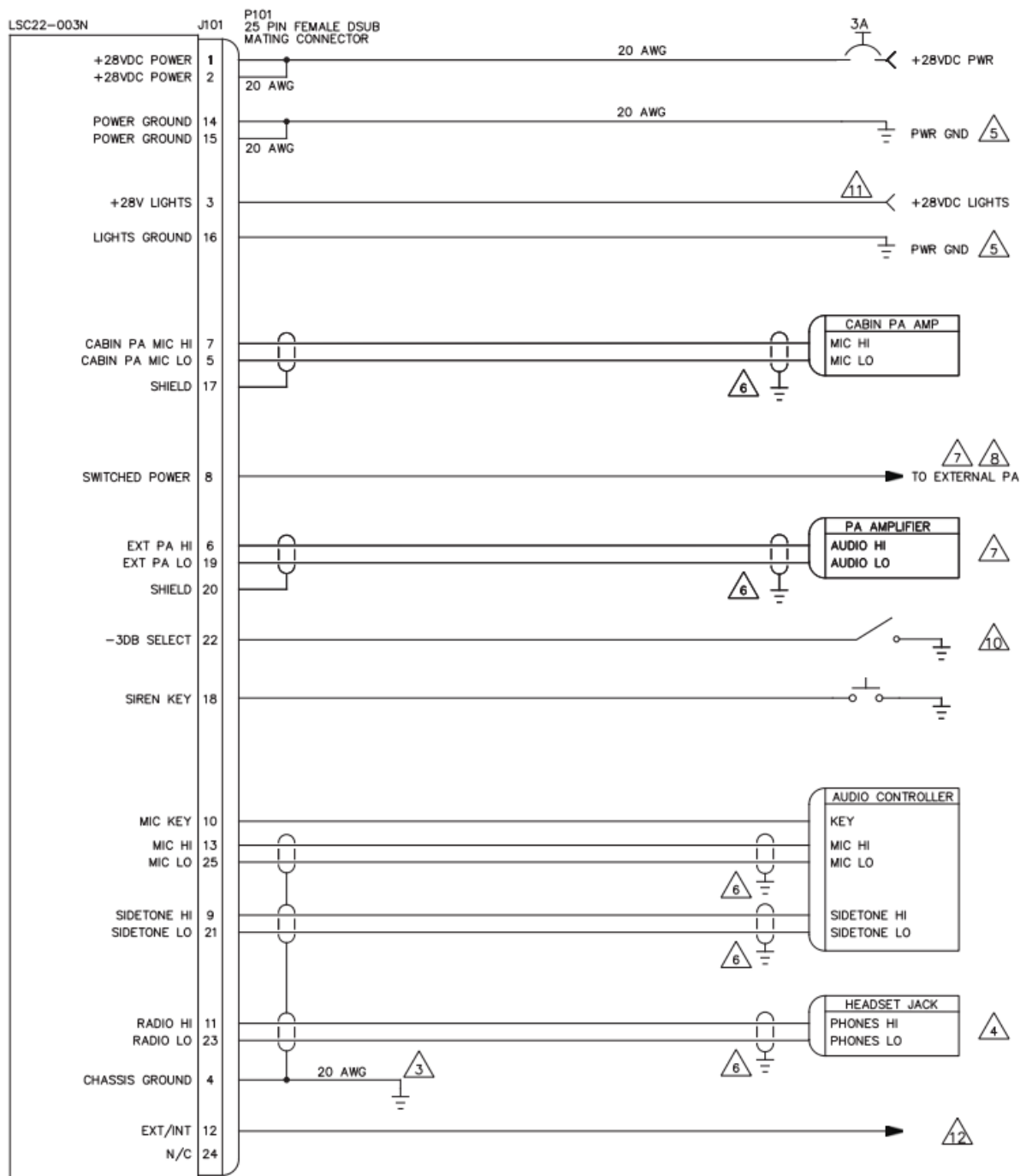
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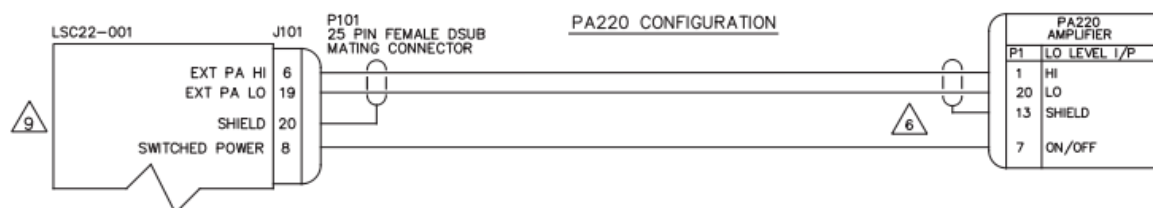
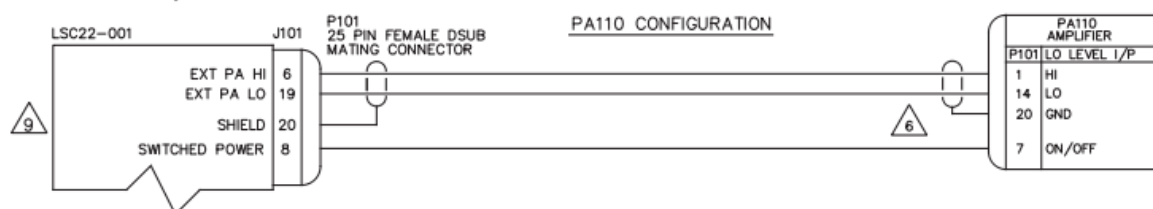
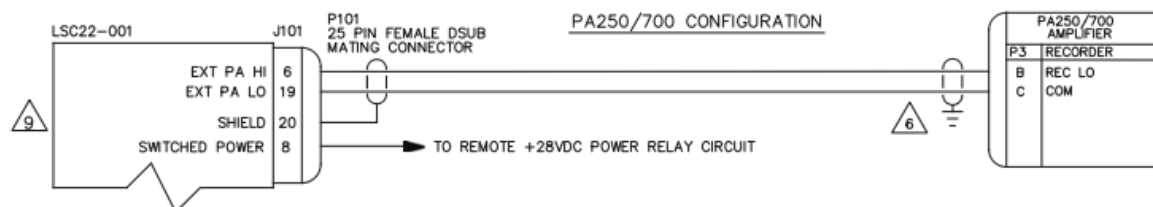
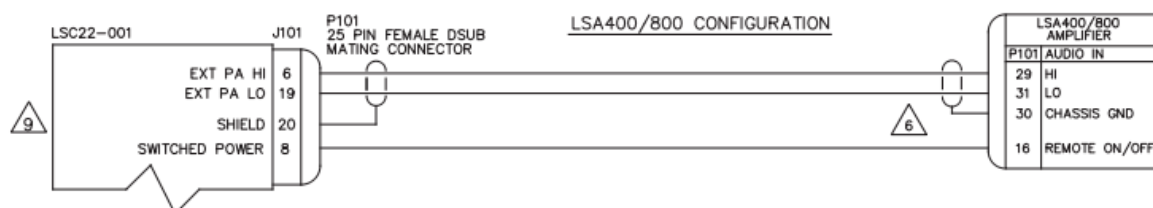
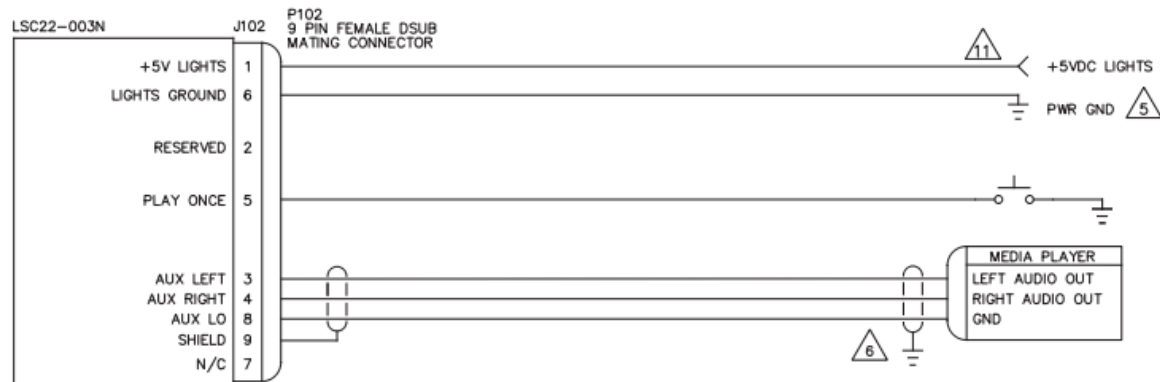
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APPROVED		Jan 08, 2017	FRACTIONAL _____ ±0.0625"								
			ANGULAR _____ ±0.5°								
			TWO DECIMAL PLACE _____ ±0.010"	PAPER SIZE: A					CAGE CODE: L9015	PART No.: LSC22-003N	
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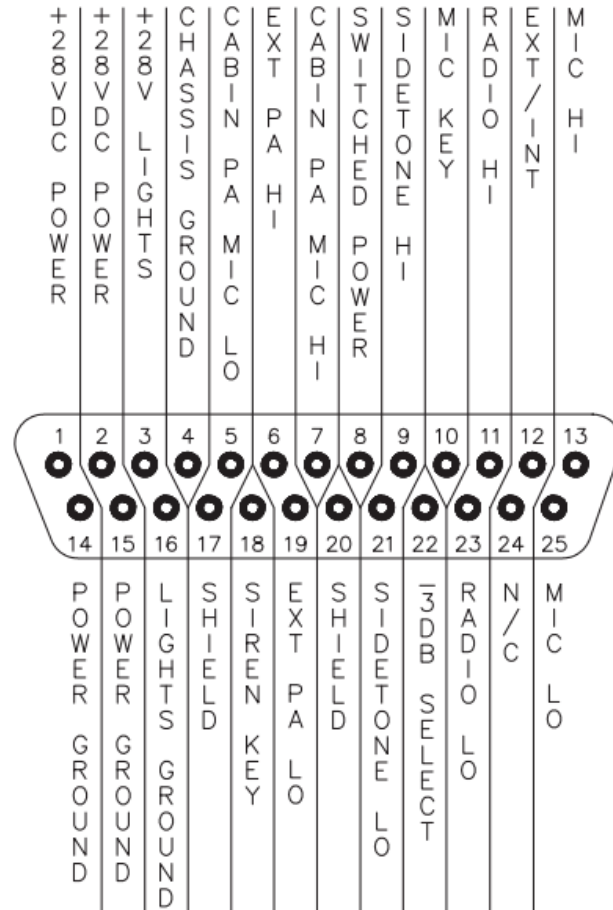
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P101

25 PIN D-MIN SOCKET
MATING CONNECTOR

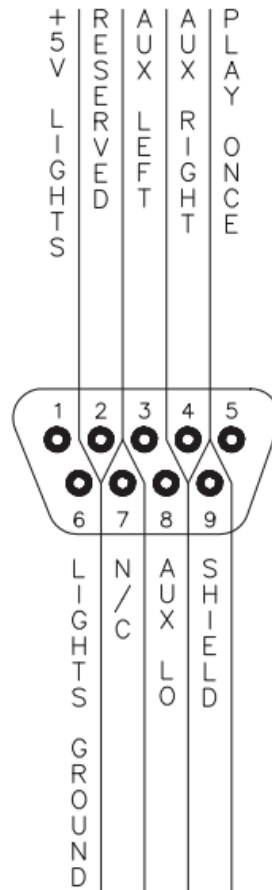


VIEW IS FROM REAR OF AIRFRAME CONNECTOR




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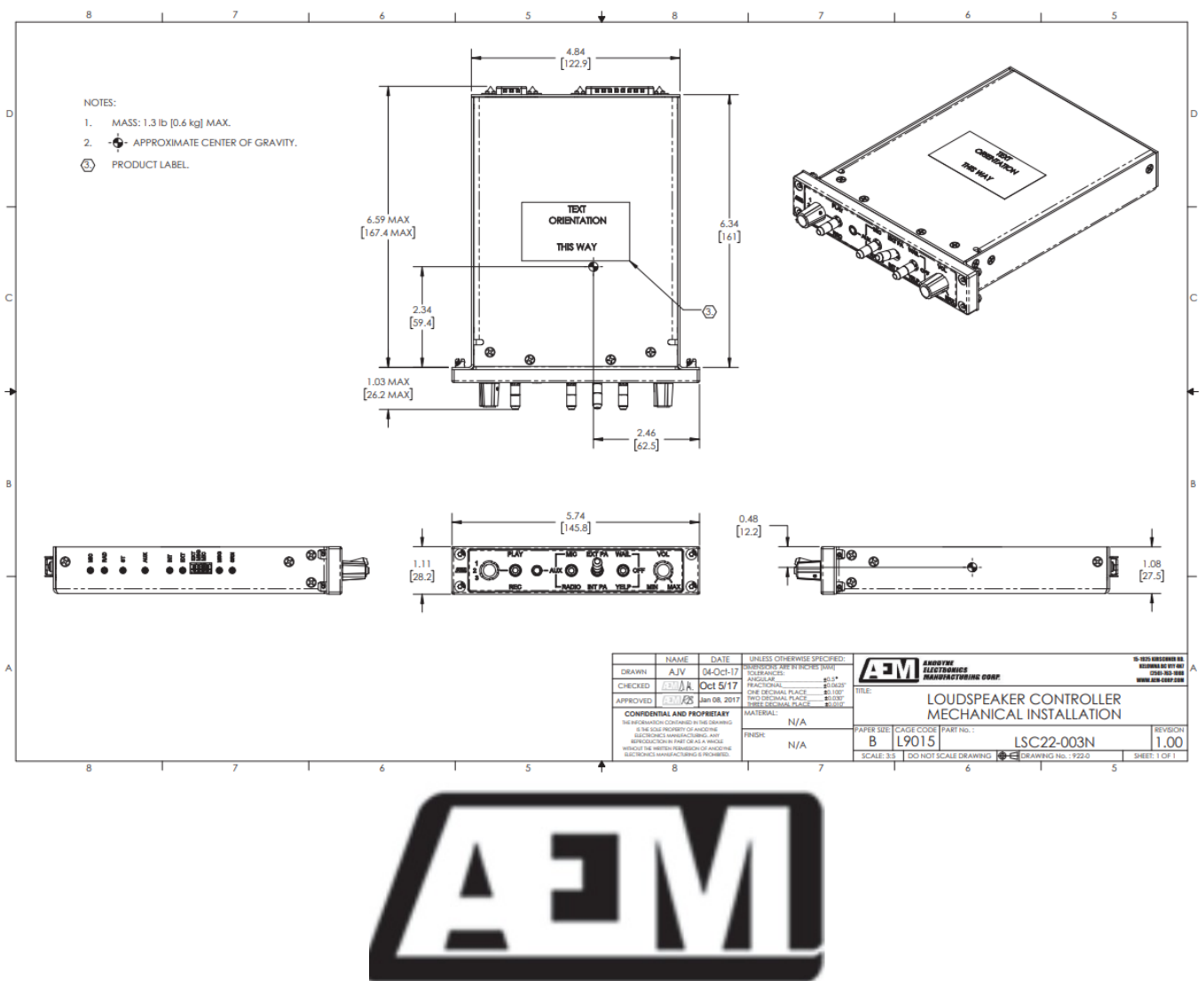
P102

9 PIN D-MIN SOCKET
MATING CONNECTOR



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Documents / Resources

	<p>AEM LSC22-003N Loudspeaker Controller [pdf] Instruction Manual</p> <p>LSC22-003N Loudspeaker Controller, LSC22-003N, Loudspeaker Controller, Controller</p>
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