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| SERVICE MANUAL                                                 | PRODUCT DESCRIPTION  | REVISION  | DATE      | AMEND/SUPPL/<br>BULLETIN NO. | DATE      | **LAST HARD COPY REV. / SUBJECT / COMMENT                                                             |
|----------------------------------------------------------------|----------------------|-----------|-----------|------------------------------|-----------|-------------------------------------------------------------------------------------------------------|
| <b>ASM-AWG08 Audio Warning Generator</b>                       |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.02      | 04-Nov-22 |                              |           | Incorp. ECO1151                                                                                       |
| Maintenance                                                    |                      | 1.01      | 21-Jan-19 |                              |           | Incorp. ECO1078                                                                                       |
| <b>ASM-BAA01-001 Bluetooth Audio Accessory</b>                 |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.01      | 25-Jul-23 |                              |           | Incorp. ECO#1158                                                                                      |
| <b>ASM-LS Loud Speaker</b>                                     |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation (LS300-20x, LS600-20x)                |                      | 1.20      | 02-May-22 |                              |           | Incorp. ECO#1130                                                                                      |
| Bulletins                                                      | Service Bulletin     | LSxxx     |           | ASM-LS-603-0001              | 13-Apr-22 | Re-entrant tip securing (MOD2)                                                                        |
| Bulletins                                                      | Service Bulletin     | LSxxx     |           | ASM-LS-603-0002              | 15-Jul-22 | Re-entrant tip securing inspection (Loctite® LRUs only) - LS600-200                                   |
| Bulletins                                                      | Service Bulletin     | LSxxx     |           | ASM-LS-603-0003              | 05-Jul-23 | Bell Stop Drill Procedure                                                                             |
| Bulletins                                                      | Service Bulletin     | LSxxx     |           | ASM-LS-603-0004              | 05-Oct-23 | Re-entrant tip securing inspection (Loctite® LRUs, MOD3)                                              |
| Bulletins                                                      | Service Bulletin     | LSxxx     |           | ASM-LS-603-0005              | 19-Dec-24 | Re-entrant tip securing (MOD4) - LS600-20x                                                            |
| Bulletins                                                      | Service Bulletin     | LSxxx     |           | ASM-LS-603-0006              | 14-Apr-25 | Re-entrant tip securing (MOD4) - LS300-20x                                                            |
| <b>ASM-LS150 Cabin Speaker</b>                                 |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.00      | 19-Jul-17 |                              |           |                                                                                                       |
| Maintenance                                                    |                      | 1.00      | 06-Nov-17 |                              |           |                                                                                                       |
| <b>ASM-LS800-34DT External Loudspeaker</b>                     |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.01      | 13-Feb-25 |                              |           | Incorp. ECO#1232                                                                                      |
| <b>ASM-LSA100-100 Cabin PA Amplifier</b>                       |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.01      | 07-Mar-23 |                              |           | Incorp. ECO#1126                                                                                      |
| Maintenance                                                    |                      | 1.02      | 07-Mar-23 |                              |           | Incorp. ECO#1126                                                                                      |
| <b>ASM-LSA400 Loud Speaker Amplifier</b>                       |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.01      | 16-Jun-16 |                              |           | Incorp. RAS#599                                                                                       |
| Maintenance                                                    |                      | 1.00      | 20-Mar-18 |                              |           |                                                                                                       |
| Supplements                                                    |                      | 1.00      |           | LSA150-001                   | 16-Jul-18 |                                                                                                       |
|                                                                |                      | 1.00      |           | LSA300-001                   | 16-Jul-18 |                                                                                                       |
| <b>ASM-LSA800 Loud Speaker Amplifier</b>                       |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.01      | 16-Jun-16 |                              |           | Incorp. RAS#599                                                                                       |
| Maintenance                                                    |                      | 1.00      | 06-Nov-17 |                              |           |                                                                                                       |
| Supplements                                                    |                      | 1.01      |           | LSA800-002                   | 13-Feb-25 | Approved by date                                                                                      |
| <b>ASM-LSC22 Loud Speaker Controller</b>                       |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.20      | 13-Sep-21 |                              |           | Incorp. RAS#997                                                                                       |
| Supplements                                                    |                      | 1.10      |           | LSC22-002N                   | 13-Sep-21 | Incorp. RAS#997                                                                                       |
|                                                                |                      | 1.10      |           | LSC22-003N                   | 13-Sep-21 | Incorp. RAS#997                                                                                       |
|                                                                |                      | 1.01      |           | LSC22-103N                   | 26-Nov-24 | Incorp. ECO1224                                                                                       |
|                                                                |                      | 1.01      |           | LSC22-105N                   | 26-Nov-24 | Incorp. ECO1224                                                                                       |
| Bulletins                                                      | Service Bulletin     | LSC22-XXX |           | LSC22-603-0001               | 27-Nov-17 | Unswitched Backlighting (MOD 1)                                                                       |
| <b>ASM-MCP01 Master Caution Panel</b>                          |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.30      | 19-Apr-18 |                              |           | Incorp. ECO1070                                                                                       |
| Supplements                                                    |                      | 1.20      |           | MCP01-120                    | 18-Jun-19 | ECO1084: Legends 3&19 changed to NEG trigger (MOD B), No 603-0.                                       |
|                                                                |                      | 1.00      |           | MCP01-120N                   | 06-Dec-19 |                                                                                                       |
| Bulletins                                                      | Information Bulletin | MCP01-XXX |           | ASM-MCP01-609-0140           | 19-Apr-18 | Custom Legends                                                                                        |
|                                                                | Service Bulletin     | MCP01-XXX |           | MCP01-603-0001               | 03-Jun-16 | Chip Indicator Trigger Levels (MOD 2) Contact AEM Technical Support                                   |
|                                                                | Service Bulletin     | MCP01-XXX |           | MCP01-603-0003               | 06-Oct-16 | State Recorder Firmware Update - PC Communication (MOD 3)                                             |
|                                                                | Service Bulletin     | MCP01-XXX |           | MCP01-603-0004               | 04-May-18 | GOV MANUAL Diodes & CPF Voltage Adj. (MOD 4)                                                          |
| <b>ASM-MCP01-130N Master Caution Panel</b>                     |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.00      | 28-Mar-19 |                              |           |                                                                                                       |
| Maintenance                                                    |                      | 1.00      | 15-Apr-19 |                              |           |                                                                                                       |
| <b>ASM-MCP02 Master Caution Panels</b>                         |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.00      | 24-May-16 |                              |           |                                                                                                       |
| Bulletins                                                      | Service Bulletin     | MCP02-0XX |           | MCP02-603-0002               | 06-Oct-16 | State Recorder Firmware Update - PC Communication (MOD 2)                                             |
| <b>ASM-MCP03 Master Caution Panel</b>                          |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.10      | 20-Jul-17 |                              |           | Incorp. ECO1065 - Legend Positions 2 and 8 to SPARE                                                   |
| Bulletins                                                      | Information Bulletin | MCP03-100 |           | ASM-MCP03-100-609-0110       | 13-Jul-17 | Custom Legends                                                                                        |
| <b>ASM-MCP-DAS Master Caution Panel</b>                        |                      |           |           |                              |           |                                                                                                       |
| Installation & Operation                                       |                      | 1.00      | 14-Nov-14 |                              |           |                                                                                                       |
| <b>ASM-MTP136D-000GN Mission Transceiver Panel Mount (P25)</b> |                      |           |           |                              |           |                                                                                                       |
| Installation                                                   |                      | 1.11      | 20-Aug-25 |                              |           | ECO1238 - Rev 1.02 & 1.03 Firmware support, removed Rev 1.01, added USB drive mechanical requirements |
| Installation Approval Test Procedure                           |                      | 1.01      | 19-Aug-25 |                              |           | ECO1238 - Updated for more robust interference testing                                                |



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| Operators Guide                                            |                      | 1.02             | 03-Jul-25 |                              |           | ECO1238 - Support for 1.03 Firmware, added USB drive requirements           |
| Bulletins                                                  | Service Bulletin     | MTP136D-000GN    |           | MTP136D-000GN-603-0001       | 10-Dec-24 | Optional Hot Temperature Startup Fault (MOD2)                               |
| Bulletins                                                  | Service Bulletin     | MTP136D-000GN    |           | MTP136D-000GN-603-0002       | 27-Jan-25 | Optional 1.02 Firmware Update                                               |
| Bulletins                                                  | Service Bulletin     | MTP136D-000GN    |           | MTP136D-000GN-603-0003       | 01-Aug-25 | Optional 1.03 Firmware Update                                               |
| <b>ASM-MTR138-000GNW Mission Transceiver Remote</b>        |                      |                  |           |                              |           |                                                                             |
| Installation & Operation                                   |                      | 1.10             | 21-Mar-25 |                              |           | ECO1234 - Updates from 1.20 Firmware                                        |
| Bulletins                                                  | Service Bulletin     | MTR138-000GNW    |           | MTR138-000GNW-603-0001       | 20-Mar-25 | Optional 1.20 Firmware Update (MOD1)                                        |
| <b>ASM-P122/P132 Consoles</b>                              |                      |                  |           |                              |           |                                                                             |
| Bulletins                                                  | Service Bulletin     | P122             |           | P122-603-0001                | 28-Jan-25 | Optional Linear Grommet Inspection & Retrofit                               |
| <b>ASM-P139-HD Digital Audio</b>                           |                      |                  |           |                              |           |                                                                             |
| Operators Guide                                            |                      | 1.00             | 02-Apr-25 |                              |           |                                                                             |
| Supplements                                                |                      | 1.00             |           | G13116R                      | 24-Jul-24 |                                                                             |
|                                                            |                      | 1.00             |           | G13116RNS                    | 22-Oct-24 |                                                                             |
|                                                            |                      | 1.00             |           | G13000R                      | 06-Mar-25 |                                                                             |
| <b>ASM-RTS Remote Transmit Select</b>                      |                      |                  |           |                              |           |                                                                             |
| Installation & Operation                                   |                      | 1.00             | 15-Nov-13 |                              |           |                                                                             |
| <b>ASM-TS150/TS300 Loud Speakers</b>                       |                      |                  |           |                              |           |                                                                             |
| Installation & Operation                                   |                      | 1.00             | 27-Nov-19 |                              |           |                                                                             |
| <b>SM33 AA20/AA22 Series PA/Siren Systems consists of:</b> |                      |                  |           |                              |           |                                                                             |
| <b>SM33-2 AA22 PA/Siren Controls</b>                       |                      |                  |           |                              |           |                                                                             |
| <b>To be Discontinued: Last Time Buy June 30, 2025</b>     |                      |                  |           |                              |           |                                                                             |
| Installation & Operation                                   |                      | 2.20             | 28-May-19 |                              |           | Incorp. ECO1064, updated drawings                                           |
| Maintenance                                                |                      | 2.10             | 28-May-19 |                              |           | Incorp. ECO1064, updated drawings                                           |
| Bulletins                                                  | Service Bulletin     | AA22-110/160/163 |           | Issue 1                      | 03-Dec-90 | Band Pass Modification (MOD 1)                                              |
|                                                            | Service Bulletin     | AA22             |           | AA22/603-0001                | 19-Mar-97 | Switched 28V Current Capability (MOD 4)                                     |
|                                                            | Information Bulletin | AA22             |           | AA22/609-0001                | 04-Sep-97 | Operation and Testing Considerations                                        |
|                                                            | Service Bulletin     | AA22-492         |           | 603-0002                     | 10-Apr-07 | Improve low frequency response (MOD 6)                                      |
|                                                            | Service Bulletin     | AA22             |           | AA22-603-0003                | 12-Apr-13 | New Switch Panel PCB, Faceplate Mounting AA22-160 (MOD 5), AA22-492 (MOD 7) |
| <b>SM34 AA21-400 Cabin PA System</b>                       |                      |                  |           |                              |           |                                                                             |
| Installation & Operation                                   |                      | 5.00             | 09-Nov-16 |                              |           | Rebranded to AEM                                                            |
| Supplements                                                |                      | 2.00             |           | AA21-401                     | 10-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-403                     | 10-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-405                     | 10-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-406                     | 14-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-407                     | 14-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-408                     | 14-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-450                     | 17-Nov-16 | Rebranded to AEM                                                            |
| Maintenance                                                |                      | 5.00             | 09-Nov-16 |                              |           | Rebranded to AEM                                                            |
| Supplements                                                |                      | 2.00             |           | AA21-401                     | 28-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-403                     | 10-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-405                     | 10-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-406                     | 14-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-407                     | 14-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-408                     | 14-Nov-16 | Rebranded to AEM                                                            |
|                                                            |                      | 2.00             |           | AA21-450                     | 16-Nov-16 | Rebranded to AEM                                                            |
| <b>SM35 PA110/220 High Power Audio Amplifiers</b>          |                      |                  |           |                              |           |                                                                             |
| <b>Obsolete</b>                                            |                      |                  |           |                              |           |                                                                             |
| Installation & Operation                                   |                      | 2.01             | 02-Aug-16 |                              |           | Updated Section 2.4.5.2 (RAS#551)                                           |
| Maintenance                                                |                      | 2.00             | 17-Oct-12 |                              |           | Updated template, added Overhaul Section                                    |
| <b>SM44 PA250 and PA700 Series consists of:</b>            |                      |                  |           |                              |           |                                                                             |
| <b>SM44-1 PA250 Series High Power Voice Amplifier</b>      |                      |                  |           |                              |           |                                                                             |
| <b>Obsolete</b>                                            |                      |                  |           |                              |           |                                                                             |
| Installation & Operation                                   |                      | 2.00             | 22-Apr-12 |                              |           | Updated template, drawings                                                  |
| Maintenance                                                |                      | 2.00             | 22-Oct-12 |                              |           | Updated template, added Overhaul Section                                    |
| Bulletins                                                  | Information Bulletin | PA250            |           | PA250/609-0001               | 07-Dec-99 | Audio Power Amplifier                                                       |
|                                                            | Service Bulletin     | PA250            |           | 603-0001                     | 14-Apr-08 | Isolated chassis ground (MOD A)                                             |
|                                                            | Service Bulletin     | PA250            |           | 603-0002                     | 23-May-08 | Isolated chassis ground (MOD 3)                                             |
|                                                            | Service Bulletin     | PA250            |           | 603-0003                     | 09-Jun-08 | Isolated chassis ground (MOD A)                                             |
|                                                            | Service Bulletin     | PA250            |           | 603-0004                     | 12-Mar-14 | Subassembly Pin Changes (MOD4)                                              |
| <b>SM44-2 PA700 Series High Power Voice Amplifier</b>      |                      |                  |           |                              |           |                                                                             |
| <b>Obsolete</b>                                            |                      |                  |           |                              |           |                                                                             |
| Installation & Operation                                   |                      | 2.00             | 22-Apr-12 |                              |           | Updated template, drawings                                                  |
| Maintenance                                                |                      | 2.00             | 22-Oct-12 |                              |           | Updated template, added Overhaul Section                                    |
|                                                            |                      | Up to S/N 1075   |           |                              |           |                                                                             |



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| Maintenance                                       | S/N 1076 and up      | 2.00            | 27-Oct-12 |                              |           | Updated template, drawings, added Overhaul Section            |
| Bulletins                                         | Information Bulletin | PA250           |           | PA250\609-0001               | 07-Dec-99 | Audio Power Amplifier                                         |
|                                                   | Information Bulletin | PA700           |           | 609-0001                     | 29-Mar-01 | Audio Power Amplifier                                         |
|                                                   | Service Bulletin     | PA700           |           | 603-0001                     | 04-Jun-08 | Isolated chassis ground (MOD 3)                               |
|                                                   | Service Bulletin     | PA700           |           | 603-0002                     | 10-Dec-14 | Subassembly Pin Changes (MOD4)                                |
| <b>SM47 VR33 Series DC Power Converter</b>        |                      |                 |           |                              |           | <b>To be Discontinued: Last Time Buy June 30, 2025</b>        |
| Installation & Operation                          |                      | 5.00            | 21-May-12 |                              |           | Updated template                                              |
| Maintenance                                       |                      | 5.00            | 20-Nov-12 |                              |           | Updated template, added Overhaul Section                      |
| <b>SM51 TS9x Series Lightweight Speaker Array</b> |                      |                 |           |                              |           | <b>To be Discontinued: Last Time Buy June 30, 2025</b>        |
| Installation & Operation                          |                      | 5.30            | 25-Jul-22 |                              |           | Incorp. ECR1130                                               |
| Maintenance                                       |                      | 5.00            | 20-Nov-12 |                              |           | Updated template, drawings, bulletins, added Overhaul Section |
| Bulletins                                         | Service Bulletin     | TS92            |           | TS92\603-0001                | 30-Apr-99 | Speaker Chassis Corner Cracking                               |
|                                                   | Information Bulletin | TS9x            |           | 609-0001                     | 05-Dec-08 | Lightweight Speaker Array                                     |
| <b>SM70 TS100/TS200 Series PA Speakers</b>        |                      |                 |           |                              |           | <b>Obsolete</b>                                               |
| Installation & Operation                          |                      | 5.00            | 16-Apr-12 |                              |           | Updated template                                              |
| Maintenance                                       |                      | 5.00            | 16-Apr-12 |                              |           | Updated template, Incorporated ECO1002                        |
| Bulletins                                         | Information Bulletin | TS100A, TS100RA |           | TS100A\609-0001              | 31-Jul-02 | External Horn, 100 Watt                                       |
|                                                   | Service Bulletin     | TS100WR/TS200WR |           | 603-0001                     | 05-Aug-08 | Pop rivet length changed (MOD 1)                              |
|                                                   | Service Bulletin     | TS100WR/TS200WR |           | TS100WR-603-0002             | 02-May-12 | Modified mounting bracket (MOD 2)                             |

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