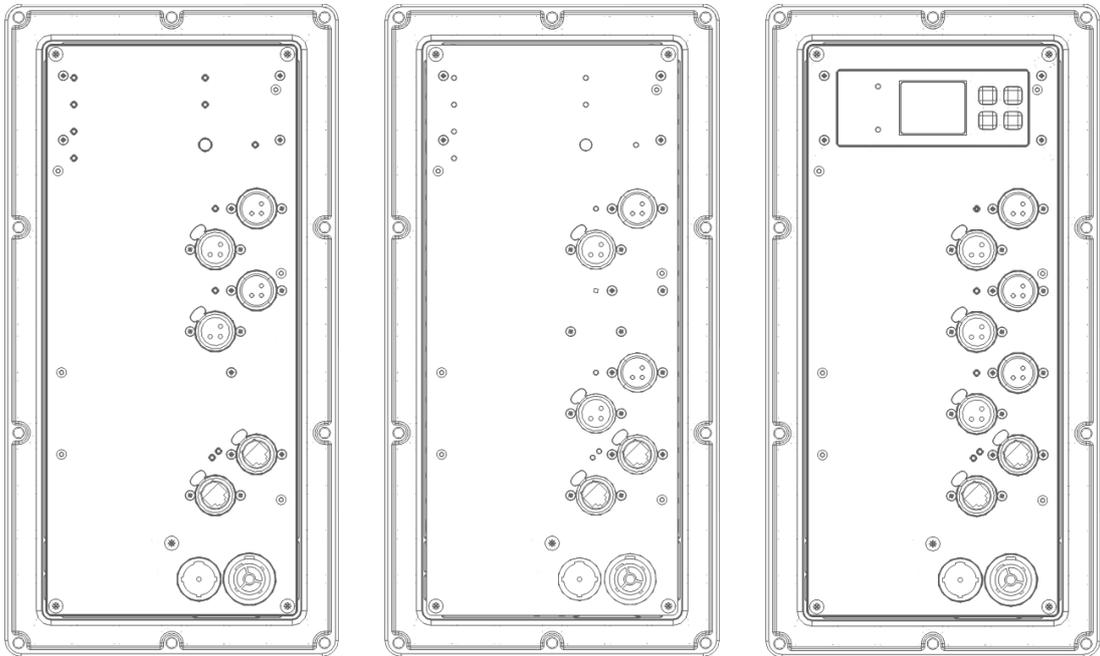




LOTO



INTEGRATION KIT USER GUIDE

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For latest update please refer to the
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Important safety instructions



THE TRIANGLE WITH THE LIGHTNING BOLT IS USED TO ALERT THE USER TO THE RISK OF ELECTRIC SHOCK.



THE TRIANGLE WITH THE EXCLAMATION POINT IS USED TO ALERT THE USER TO IMPORTANT OPERATING OR MAINTENANCE INSTRUCTIONS.



THE CE-MARK INDICATES THE COMPLIANCE OF THE PRODUCT TO ALL THE APPLICABLE EUROPEAN DIRECTIVES



SYMBOL FOR EARTH/GROUND CONNECTION.



SYMBOL INDICATING THAT THE EQUIPMENT IS FOR INDOOR USE ONLY.



SYMBOL FOR CONFORMITY WITH DIRECTIVE 2012/19/EC OF THE EUROPEAN PARLIAMENT ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE).



DO NOT USE THE UNIT AT ALTITUDES ABOVE 2000 M.



DO NOT USE THE UNIT IN TROPICAL ENVIRONMENT.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT ATTEMPT TO OPEN ANY PART OF THE UNIT. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



CONNECTION TO THE MAINS AND TO THE AUDIO OUTPUT SHALL BE DONE ONLY BY A ELECTROTECHNICAL SKILLED PERSON ACCORDING THE NATIONAL REQUIREMENTS OF THE COUNTRIES WHERE THE UNIT IS SOLD.



DO NOT USE THIS AMPLIFIER IF THE ELECTRICAL POWER CORD IS FRAYED OR BROKEN.



TO AVOID ELECTRICAL SHOCK, DO NOT TOUCH ANY EXPOSED SPEAKER WIRING WHILE THE AMPLIFIER IS OPERATING.



DO NOT SPILL WATER OR OTHER LIQUIDS INTO OR ON THE AMPLIFIER.



NO NAKED FLAME SOURCES SUCH AS LIGHTED CANDLES SHOULD BE PLACED ON THE AMPLIFIER.



WARNING TO PREVENT INJURY, THIS APPARATUS MUST BE SECURELY ATTACHED TO THE FLOOR/WALL IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.



THIS DEVICE MUST BE POWERED EXCLUSIVELY BY EARTH CONNECTED MAINS SOCKETS IN ELECTRICAL NETWORKS COMPLIANT TO THE IEC 364 OR SIMILAR RULES



DISCONNECT THE AC MAINS SOURCE BEFORE ATTEMPTING TO CLEAN ANY PART OF THE AMPLIFIER



POWERSOFT SUGGESTS TO PLUG THE LOTO ASSEMBLY TO A 16 A RATING, C OR D CURVE, 10 KA SECTIONING BREAKER.



IT IS HIGHLY RECOMMENDED TO UNPLUG THE OUTPUT CONNECTORS BEFORE PROCEEDING WITH THE SELF CHECK PROCEDURE



THE TESTING SIGNALS MIGHT CAUSE LOUDSPEAKER IMPAIRMENTS.



CLASS 3 WIRING

OUTPUT TERMINALS ARE HAZARDOUS: WIRING CONNECTION TO THESE TERMINALS REQUIRES INSTALLATION BY AN INSTRUCTED PERSON AND THE USE OF READY MADE LEADS.



PROPERLY FIT THE AC MAINS PLUG TO THE AMPLIFIER INLET. BEFORE POWERING THIS AMPLIFIER, VERIFY THAT THE CORRECT VOLTAGE RATING IS BEING USED.



VERIFY THAT YOUR MAINS CONNECTION IS CAPABLE OF SATISFYING THE POWER RATINGS OF THE DEVICE.



TAKE CARE TO LOCK THE OUTPUT TERMINAL BEFORE SWITCHING THE DEVICE ON.



This unit has been engineered and manufactured to ensure your personal safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD.

In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this equipment near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection
- Where the MAINS plug or an appropriate coupler is used as the disconnect device, the disconnect device shall remain readily operable.

THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED TO PERSONS, THINGS OR DATA DUE TO AN IMPROPER OR MISSING GROUND CONNECTION.

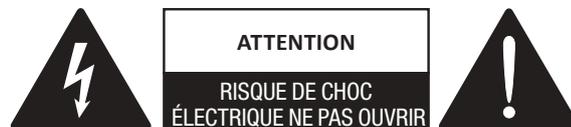
CONTACT THE AUTHORIZED SERVICE CENTER FOR ORDINARY AND EXTRAORDINARY MAINTENANCE.

IT IS ABSOLUTELY NECESSARY TO VERIFY THESE FUNDAMENTAL REQUIREMENTS OF SAFETY AND, IN CASE OF DOUBT, REQUIRE AN ACCURATE CHECK BY QUALIFIED PERSONNEL.

Consignes de sécurité importantes

2

-  LE TRIANGLE AVEC LE SYMBOLE D'UN ÉCLAIR EST UTILISÉ POUR ALERTER L'UTILISATEUR DU RISQUE DE CHOC ÉLECTRIQUE.
-  LE TRIANGLE AVEC LE POINT D'EXCLAMATION EST UTILISÉ POUR ALERTER L'UTILISATEUR SUR DES INSTRUCTIONS DE FONCTIONNEMENT OU D'ENTRETIEN IMPORTANTES.
-  LA MARQUE CE INDIQUE LA CONFORMITÉ DU PRODUIT À TOUTES LES DIRECTIVES EUROPÉENNES EN VIGUEUR
-  SYMBOLE POUR LA CONNEXION TERRE / MASSE.
-  SYMBOLE INDIQUANT QUE L'ÉQUIPEMENT EST DESTINÉ À UN USAGE INTÉRIEUR UNIQUEMENT.
-  SYMBOLE DE CONFORMITÉ AVEC LA DIRECTIVE 2012/19/CE DU PARLEMENT EUROPÉEN RELATIVE AUX DÉCHETS D'ÉQUIPEMENTS ÉLECTRIQUES ET ÉLECTRONIQUES (DEEE).
-  NE PAS UTILISER PAS L'APPAREIL À DES ALTITUDES AU-DESSUS DE 2 000 M.
-  NE PAS UTILISER L'APPAREIL DANS UN ENVIRONNEMENT TROPICAL.
-  AVERTISSEMENT : POUR RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE, NE PAS ESSAYER D'OUVRIER TOUTE PARTIE DE L'APPAREIL. AUCUNE PIÈCE RÉPARABLE PAR L'UTILISATEUR À L'INTÉRIEUR. RENVOYER L'ENTRETIEN AU PERSONNEL DE SERVICE QUALIFIÉ.
-  LE BRANCHEMENT AU SECTEUR ET AUX AUDIO SORTIE NE SERA EFFECTUE QUE PAR UNE PERSONNE QUALIFIÉE DANS LE DOMAINE ÉLECTRO-TECHNIQUE SELON LES EXIGENCES NATIONALES DES PAYS OU L'APPAREIL EST VENDU.
-  NE PAS UTILISER CET AMPLIFICATEUR SI LE CORDON D'ALIMENTATION ÉLECTRIQUE EST EFFILOCHÉ OU BRISÉ.
-  POUR ÉVITER LES CHOC ÉLECTRIQUES, NE TOUCHER AUCUN CÂBLAGE D'ENCEINTE EXPOSÉ LORSQUE L'AMPLIFICATEUR FONCTIONNE.
-  NE PAS RENSERER D'EAU OU D'AUTRES LIQUIDES DANS OU SUR L'AMPLIFICATEUR.
-  AUCUNE SOURCE DE FLAMME NUE COMME DES BOUGIES ALLUMÉES NE DOIT ÊTRE PLACÉE SUR L'AMPLIFICATEUR.
-  AVERTISSEMENT POUR PRÉVENIR LES BLESSURES, CET APPAREIL DOIT ÊTRE SOLIDEMENT FIXÉ AU SOL / MUR EN CONFORMITÉ AVEC LES INSTRUCTIONS D'INSTALLATION.
-  CET APPAREIL DOIT ÊTRE ALIMENTÉ EXCLUSIVEMENT PAR RACCORDS DE SECTEUR CONNECTÉS À LA TERRE DANS DES RÉSEAUX ÉLECTRIQUES CONFORMES AUX NORMES CEI 364 OU AUX RÈGLES SIMILAIRES
-  DÉCONNECTER LA SOURCE SECTEUR AV AVANT DE TENTER TOUT NETTOYAGE DE L'AMPLIFICATEUR
-  POWERSOFT RECOMMANDE DE BRANCHER LA LOTO ASSEMBLY À UNE VALEUR DE 16 A, UNE COURBE C OR D, UN DISJONCTEUR SECTIONNEUR DE 10 KA.
-  IL EST FORTEMENT RECOMMANDÉ DE DÉBRANCHER LES CONNECTEURS DE SORTIE AVANT DE PROCÉDER À LA PROCÉDURE D'AUTO-VÉRIFICATION
-  LES SIGNAUX D'ESSAI PEUVENT CAUSER DES DÉFAILLANCES AUX HAUT-PARLEURS.
-  LES TERMINAUX DE SORTIE SONT DANGEREUX : LA CONNEXION DU CÂBLAGE À CES BORNES REQUIERT L'INSTALLATION PAR UNE PERSONNE FORMÉE ET L'UTILISATION DE FILS PRÊTS À L'EMPLOI.
-  **CLASS3 WIRING** BRANCHER CORRECTEMENT LA FICHE SECTEUR CA À L'ENTRÉE DE L'AMPLIFICATEUR.
-  AVANT D'ALIMENTER CET AMPLIFICATEUR, VÉRIFIER QUE LA TENSION UTILISÉE EST CORRECTE.
-  VÉRIFIER QUE VOTRE CONNEXION SECTEUR EST CAPABLE DE SATISFAIRE LES VALEURS DE PUISSANCE DE L'APPAREIL.
-  VEILLER À VERROUILLER LA BORNE DE SORTIE AVANT D'ALLUMER L'APPAREIL.



Cet appareil a été conçu et fabriqué pour assurer votre sécurité personnelle. Mais UNE UTILISATION INCORRECTE PEUT ENTRAÎNER UN RISQUE D'ÉLECTROCUTION OU D'INCENDIE.

Respecter les règles de base suivantes pour son installation, utilisation et entretien, afin de ne pas compromettre les mesures de sécurité incorporées dans ce produit. Veuillez lire attentivement ces « Consignes de sécurité importantes » avant utilisation.

- Lire ces instructions.
- Conserver ces instructions.
- Tenir compte de tous les avertissements.
- Suivre toutes les instructions.
- Ne pas utiliser cet équipement près de l'eau.
- Nettoyer uniquement à l'aide d'un chiffon sec.
- Ne bloquer aucune bouche d'aération. Installer conformément aux instructions du fabricant.
- Ne pas installer à proximité de sources de chaleur telles que radiateurs, bouches de chaleur, poêles ou autres appareils produisant de la chaleur.
- Ne pas déjouer l'objectif de sécurité de la fiche polarisée ou mise à la terre. Une fiche polarisée possède deux lames dont l'une est plus large que l'autre. Une prise de terre a deux lames et une troisième broche de mise à la terre. La lame large ou la troisième broche sont fournies pour votre sécurité. Si la fiche fournie ne rentre pas dans votre prise, consulter un électricien pour le remplacement de la prise obsolète.
- Protéger le cordon d'alimentation contre tout piétinement ou pincement, en particulier au niveau des fiches, des prises de courant et du point de sortie de l'appareil.
- Utiliser uniquement les fixations/accessoires spécifiés par le fabricant.
- Utiliser uniquement avec le chariot, le support, le trépied, l'étrier ou la table spécifiée par le fabricant ou vendus avec l'appareil. Lorsqu'un chariot est utilisé, faire attention pendant le déplacement du bloc chariot/appareil pour éviter les blessures causées par un renversement. 
- Débrancher cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes.
- Confier toute réparation à un technicien qualifié. Un entretien est requis lorsque l'appareil a été endommagé de quelque façon que ce soit, par exemple un cordon d'alimentation ou une prise endommagée, du liquide qui a été renversé ou des objets qui sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité ou s'il est tombé.
- L'appareil doit être connecté à une prise SECTEUR dotée d'une mise à la terre de protection
- Lorsque la prise SECTEUR ou un coupleur approprié est utilisé comme dispositif de déconnexion, le dispositif de déconnexion doit rester facilement accessible.

LE FABRICANT NE PEUT ÊTRE TENU RESPONSABLE DES DOMMAGES CAUSÉS AUX PERSONNES, AUX CHOSSES OU AUX DONNÉES EN RAISON D'UNE CONNEXION À LA TERRE INCORRECTE OU MANQUANTE.

CONTACTER LE CENTRE DE SERVICE AUTORISÉ POUR UN ENTRETIEN ORDINAIRE ET EXTRAORDINAIRE.

IL EST ABSOLUMENT NÉCESSAIRE DE VÉRIFIER CES CONDITIONS FONDAMENTALES DE SÉCURITÉ ET, EN CAS DE DOUTE, D'OBTENIR UNE VÉRIFICATION PRÉCISE PAR DU PERSONNEL QUALIFIÉ.

Importantes Instrucciones de Seguridad

 EL TRIÁNGULO CON EL RAYO ES USADO PARA ALERTAR AL USUARIO DEL RIESGO DE DESCARGA ELÉCTRICA.

 EL TRIÁNGULO CON EL SIGNO DE EXCLAMACIÓN ES USADO PARA ALERTAR AL USUARIO DE INSTRUCCIONES DE OPERACIÓN Y MANTENIMIENTO IMPORTANTES.

 LA MARCA CE INDICA LA CONFORMIDAD DEL PRODUCTO CON TODAS LAS DIRECTIVAS EUROPEAS APLICABLES

 SÍMBOLO PARA TIERRA/CONEXIÓN A TIERRA.

 SÍMBOLO INDICANDO QUE EL EQUIPO ES SOLO PARA USO INTERIOR.

 SÍMBOLO PARA LA CONFORMIDAD CON LA DIRECTIVA 2012/19/EC DEL PARLAMENTO EUROPEO SOBRE EL DESECHO DE EQUIPOS ELÉCTRICOS Y ELECTRÓNICOS (WEEE por sus siglas en Inglés).

 NO USE LA UNIDAD EN ALTITUDES SOBRE LOS 2000 METROS.

 NO USE LA UNIDAD EN AMBIENTES TROPICALES.

 ADVERTENCIA: PARA REDUCIR EL RIESGO DE DESCARGA ELÉCTRICA, NO INTENTE ABRIR NINGUNA PARTE DE LA UNIDAD. NO EXISTEN PARTES INTERNAS REPARABLES PARA EL USUARIO. REFIERA LA REVISIÓN A PERSONAL DE MANTENIMIENTO CALIFICADO.

 LA CONEXIÓN A LA RED ELÉCTRICA Y A LAS AUDIO SALIDA DEBERÁ SER EFECTUADA SOLAMENTE POR UNA PERSONA QUE ESTÉ CAPACITADA EN EL ÁREA DE ELECTROTÉCNICA DE ACUERDO A LOS REQUERIMIENTOS NACIONALES DE LOS PAÍSES DONDE LA UNIDAD SEA VENDIDA.

 NO USE ESTE AMPLIFICADOR SI EL CABLE DE LA ENERGÍA ELÉCTRICA ESTÁ RASGADO O CORTADO.

 CON EL FIN DE EVITAR DESCARGAS ELÉCTRICAS, NO TOQUE NINGÚN CABLEADO DEL ALTOPARLANTE QUE SE ENCUENTRE AL DESCUBIERTO MIENTRAS EL AMPLIFICADOR ESTÉ FUNCIONANDO.

 NO DERRAME AGUA U OTROS LÍQUIDOS DENTRO O SOBRE EL AMPLIFICADOR.

 NO DEBEN COLOCARSE FUENTES DE LLAMAS DESCUBIERTAS TALES COMO VELAS ENCENDIDAS SOBRE EL AMPLIFICADOR.

 ADVERTENCIA: PARA EVITAR DAÑOS, ESTE APARATO DEBE ESTAR ADHERIDO DE FORMA SEGURA AL SUELO/PARED CONFORME A LAS INSTRUCCIONES PARA SU INSTALACIÓN.

 ESTE DISPOSITIVO DEBE SER ENCENDIDO EXCLUSIVAMENTE DESDE LOS TOMACORRIENTES DE LA RED ELÉCTRICA CONECTADOS A TIERRA EN REDES ELÉCTRICAS QUE CUMPLEN CON LAS REGLAS IEC 364 O AFINES

 DESCONECTE LA FUENTE DE LA RED ELÉCTRICA AC ANTES DE INTENTAR LIMPIAR CUALQUIER PARTE DEL AMPLIFICADOR

 POWERSOFT SUGIERE CONECTAR LA LOTO ASSEMBLY A UNA CURVA C O D DE 16 A O A UN INTERRUPTOR DE SECCIONAMIENTO 10 KA.

 SE RECOMIENDA ALTAMENTE DESENCHUFAR LOS CONECTORES DE SALIDA ANTES DE CONTINUAR CON EL PROCEDIMIENTO DE AUTO CHEQUEO

 LAS SEÑALES DE PRUEBA PODRÍAN CAUSAR DETERIOROS EN EL ALTAVOZ.

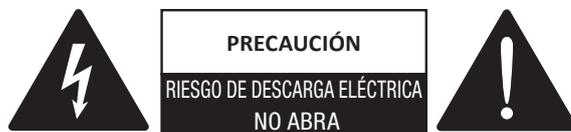
 LOS TERMINALES DE SALIDA SON PELIGROSOS: LA CONEXIÓN DE CABLES A ESTOS TERMINALES REQUIERE DE INSTALACIÓN EFECTUADA POR UNA PERSONA CON LA FORMACIÓN ADECUADA Y EL USO DE CABLES YA ENSAMBLADOS.

 INSTALE APROPIADAMENTE LOS ENCHUFES DE LA RED ELÉCTRICA AC EN LA ENTRADA DEL AMPLIFICADOR.

 ANTES DE ENCENDER ESTE AMPLIFICADOR, VERIFIQUE QUE ESTÉ SIENDO USADO EL ÍNDICE DE VOLTAJE CORRECTO.

 VERIFIQUE QUE SU CONEXIÓN A LA RED ELÉCTRICA ES CAPAZ DE SATISFACER LOS ÍNDICES DE ENERGÍA DE ESTE DISPOSITIVO.

 ASEGÚRESE DE CERRAR EL TERMINAL DE SALIDA ANTES DE ENCENDER EL DISPOSITIVO.



Esta unidad ha sido diseñada y fabricada para garantizar su seguridad personal. Pero SU USO INADECUADO PUEDE RESULTAR EN UNA POTENCIAL DESCARGA ELÉCTRICA O RIESGO DE FUEGO.

Con el fin de no anular las garantías incorporadas en este producto, siga las siguientes reglas básicas para su instalación, uso y servicio. Por favor lea cuidadosamente estas "Garantías Importantes" antes de su uso.

- Lea estas instrucciones.
- Mantenga estas instrucciones.
- Tenga en cuenta todas las advertencias.
- Siga todas las instrucciones.
- No use este equipo cerca del agua.
- Limpie solamente con un paño seco.
- No bloquee las aberturas de ventilación. Instale en conformidad con las instrucciones del fabricante.
- No instale cerca de ninguna fuente de calor tales como radiadores, registradores de calor, cocinas u otros aparatos que produzcan calor.
- No anule el propósito de seguridad del enchufe polarizado o con conexión a tierra. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe con conexión a tierra tiene dos clavijas y un tercer diente para su conexión a tierra. La clavija ancha o el tercer diente se proporcionan para su seguridad. Si el enchufe proporcionado no encaja en su tomacorriente, consulte a un electricista para que reemplace el que ya no sirve.
- Proteja el cable de electricidad para que no sea pisoteado o pinchado particularmente en los enchufes, los receptáculos de conveniencia y el punto donde estos salen del aparato.
- Use solo complementos/accesorios especificados por el fabricante.
- Use solo con el carrito, estante, trípode, anaquel o mesa especificados por el fabricante o vendidos con el aparato. Cuando se usa un carrito, tenga cuidado al mover la combinación de carrito/aparato y así evitar daños en caso de que se caiga.
- Desenchufe este aparato durante una tormenta eléctrica o cuando no se use por largos períodos de tiempo.
- Refiera todo el mantenimiento a personal calificado. Se requiere de servicio cuando el aparato ha sido dañado en cualquier forma, tales como enchufes o cables de suministro de energía eléctrica dañados, que se haya derramado líquido u objetos hayan caído dentro del aparato, que el aparato haya sido expuesto a la lluvia o humedad, que no funcione normalmente o que este se haya caído.
- Este aparato deberá ser conectado a un enchufe de salida de red eléctrica con una protectora conexión a tierra
- En el lugar donde sea usado un enchufe de salida de red eléctrica o un acoplador apropiado como el dispositivo de desconexión, este deberá poder accionarse fácilmente.



EL FABRICANTE NO SE HACE RESPONSABLE POR DAÑOS CAUSADOS A PERSONAS, OBJETOS O DATOS DEBIDO A UNA CONEXIÓN A TIERRA INAPROPIADA O FALTANTE.

CONTACTE AL CENTRO DE SERVICIO AUTORIZADO PARA MANTENIMIENTO DE RUTINA O EXTRAORDINARIO.

ES ABSOLUTAMENTE NECESARIO VERIFICAR ESTOS REQUERIMIENTOS FUNDAMENTALES DE SEGURIDAD Y, EN CASO DE DUDA, EXIJA UN CORRECTO CHEQUEO POR PARTE DE UN PERSONAL CALIFICADO.

Importanti istruzioni di sicurezza

-  IL TRIANGOLO CON IL SIMBOLO DEL FULMINE VIENE UTILIZZATO PER AVVISARE L'UTENTE SUL RISCHIO DI SCOSSE ELETTRICHE.
-  IL TRIANGOLO CON IL PUNTO ESCLAMATIVO VIENE UTILIZZATO PER AVVISARE L'UTENTE SU IMPORTANTI ISTRUZIONI DI FUNZIONAMENTO O DI MANUTENZIONE.
-  IL MARCHIO CE INDICA CHE IL PRODOTTO È CONFORME A TUTTE LE DIRETTIVE EUROPEE APPLICABILI
-  SIMBOLO PER IL COLLEGAMENTO DELLA MESSA A TERRA.
-  SIMBOLO CHE INDICA CHE IL DISPOSITIVO PUO' ESSERE UTILIZZATO SOLO ALL'INTERNO.
-  SIMBOLO INDICANTE LA CONFIORMITA' ALLA DIRETTIVA 2012/19/CE DEL PARLAMENTO EUROPEO SUI RIFIUTI DI APPARECCHIATURE ELETTRICHE ED ELETTRONICHE (RAEE).
-  NON UTILIZZARE IL DISPOSITIVO AD ALTITUDINI SUPERIORI A 2000 M.
-  NON UTILIZZARE IL DISPOSITIVO IN UN AMBIENTE TROPICALE.
-  ATTENZIONE: PER RIDURRE IL RISCHIO DI SCOSSE ELETTRICHE NON TENTARE DI APRIRE ALCUNA PARTE DEL DISPOSITIVO. ALL'INTERNO NON E' PRESENTE ALCUN COMPONENTE RIPARABILE DALL'UTENTE. PER L'ASSISTENZA RIVOLGERSI A PERSONALE TECNICO QUALIFICATO.
-  IL COLLEGAMENTO ALLA RETE ELETTRICA E ALLE USCITE AUDIO DEVE ESSERE ESEGUITO DA UN ELETTROTECNICO QUALIFICATO ATTENENDOSI AI REQUISITI DEL PAESE IN CUI IL DISPOSITIVO VIENE VENDUTO.
-  NON UTILIZZARE L'AMPLIFICATORE SE IL CAVO DELL'ALIMENTAZIONE ELETTRICA E' SFILACCIATO O ROTTO.
-  PER EVITARE SCOSSE ELETTRICHE, NON TOCCARE IL CABLAGGIO DELLE CASSE ESTERNE QUANDO L'AMPLIFICATORE E' IN FUNZIONE.
-  NON VERSARE ACQUA NE' ALTRI LIQUIDI ALL'INTERNO O SOPRA L'AMPLIFICATORE.
-  NON SI DEVONO POSIZIONARE FIAMME LIBERE QUALI CANDELE ACESE SULL'AMPLIFICATORE.
-  ATTENZIONE PER EVITARE LESIONI IL DISPOSITIVO DEVE ESSERE FISSATO IN MODO SICURO AL PAVIMENTO/ALLA PARETE ATTENENDOSI ALLE ISTRUZIONI DI INSTALLAZIONE.
-  IL DISPOSITIVO DEVE ESSERE ALIMENTATO ESCLUSIVAMENTE DA PRESE ELETTRICHE CON COLLEGAMENTO A TERRA SU RETI ELETTRICHE CONFORMI ALLO IEC 364 O A NORME SIMILI
-  SCOLLEGARE L'ALIMENTAZIONE CA PRIMA DI PULIRE QUALSIASI PARTE DELL'AMPLIFICATORE
-  POWERSOFT CONSIGLIA DI COLLEGARE LA LOTO ASSEMBLY A UN INTERRUPTORE DI SEZIONAMENTO DA 16 A, CURVE C O D, 10 KA.
-  SI CONSIGLIA VIVAMENTE DI SCOLLEGARE I CONNETTORI DI USCITA PRIMA DI PROCEDER CON LA PROCEDURA DI AUTOCONTROLLO
-  I SEGNALI DEL TEST POTREBBERO PROVOCARE DANNI AGLI ALTOPARLANTI.
-  I MORSETTI DI USCITA SONO PERICOLOSI: IL COLLEGAMENTO DEI CAVI A QUESTI MORSETTI DEVE ESSERE ESEGUITO DA UNA PERSONA QUALIFICATA UTILIZZANDO CAVI PREPARATI.
-  COLLEGARE LA PRESA DELL'ALIMENTAZIONE CA ALL'ENTRATA DELL'AMPLIFICATORE IN MODO CORRETTO. PRIMA DI ALIMENTARE L'AMPLIFICATORE CONTROLLARE CHE SI STIA UTILIZZANDO LA TENSIONE NOMINALE CORRETTA.
-  CONTROLLARE CHE LA CONNESSIONE DI RETE SIA IN GRADO DI SODDISFARE LA POTENZA NOMINALE DEL DISPOSITIVO.
-  FARE ATTENZIONE A BLOCCARE IL MORSETTO DI USCITA PRIMA DI ACCENDERE IL DISPOSITIVO.



ATTENZIONE
RISCHIO DI SCOSSE ELETTRICHE NON APRIRE



Il dispositivo è stato progettato e fabbricato per garantire la vostra sicurezza personale. TUTTAVIA UN UTILIZZO NON CORRETTO PUO' PROVOCARE RISCHI DI SCOSSE ELETTRICHE E DI INCENDI.

Per non compromettere le protezioni incorporate nel prodotto, rispettare le seguenti regole di base relative all'installazione, all'utilizzo e alla manutenzione. Si prega di leggere queste "Istruzioni sulla sicurezza" accuratamente prima dell'utilizzo.

- Leggere queste istruzioni.
- Conservare queste istruzioni.
- Prestare attenzione a tutti gli avvertimenti.
- Seguire tutte le istruzioni.
- Non utilizzare il dispositivo vicino all'acqua.
- Pulire esclusivamente con un panno asciutto.
- Non ostruire le aperture per la ventilazione. Installare il dispositivo attenendosi alle istruzioni del produttore.
- Non installare vicino a fonti di calore quali radiatori, termoregolatori, stufe o altri apparecchi che producono calore.
- Non manomettere la funzione di sicurezza presa polarizzata o con messa a terra. Una spina polarizzata è dotata di due lamelle, una è più grande dell'altra. Una spina con messa a terra è dotata di due lamelle e di una terza punta per la messa a terra. La lamella più grande o la terza punta sono installati per garantire la vostra sicurezza. Se la spina in dotazione non si adatta alla vostra presa, contattare un elettricista per sostituire la presa obsoleta.
- Proteggere il cavo di alimentazione per evitare che possa essere calpestato o schiacciato prestando particolare attenzione alle spine, alle prese di derivazione e al punto in cui fuoriescono dal dispositivo.
- Utilizzare esclusivamente gli attacchi/accessori specificati dal produttore.
- Utilizzare solo il carrello, il supporto, il cavalletto, la staffa o il tavolino specificati dal produttore, o venduti con il dispositivo. Se si utilizza un carrello, prestare attenzione quando si sposta la combinazione carrello/apparecchio per evitare danni alle persone causati dal ribaltamento.
- Scollegare il dispositivo durante i temporali o quando rimane inutilizzato per lunghi periodi di tempo.
- Per la manutenzione e l'assistenza rivolgersi a personale tecnico qualificato. Gli interventi di manutenzione e di riparazione sono necessari quando il dispositivo è stato danneggiato in qualsiasi modo, come ad esempio se il cavo di alimentazione o la spina sono stati danneggiati, se è stato versato del liquido o sono caduti oggetti sul dispositivo, se il dispositivo è stato esposto a pioggia o a umidità, se non funziona in modo normale o se caduto.
- Il dispositivo deve essere collegato a una presa di corrente con collegamento protetto da messa a terra
- Nel caso in cui presa elettrica o un idoneo accoppiatore viene utilizzato come dispositivo di scollegamento, il dispositivo di scollegamento deve rimanere sempre facilmente accessibile.



IL PRODUTTORE DECLINA OGNI RESPONSABILITA' PER DANNI PROVOCATI A PERSONE, COSE O DATI A CAUSA DI UN COLLEGAMENTO NON CORRETTO O MANCANTE DELLA MESSA A TERRA.

CONTATTARE IL CENTRO DI ASSISTENZA AUTORIZZATO PER ESEGUIRE LA MANUTENZIONE ORDINARIA E STRAORDINARIA.

E' ASSOLUTAMENTE NECESSARIO CONTROLLARE QUESTI REQUISITI FONDAMENTALI SULLA SICUREZZA E, IN CASO DI DUBBI, RICHIEDERE UN CONTROLLO ACCURATO DA PERSONALE QUALIFICATO.

Regulatory information

WEEE Directive

If the time arises to throw away your product, please recycle all possible component.



This symbol indicates that when the end-user wishes to discard this product, it must be sent to separate collection facilities for recovery and recycling. By separating this product from other household-type waste, the volume of waste sent to incinerators or land-fills will be reduced and natural resources will thus be conserved.

The Waste Electrical and Electronic Equipment Directive (WEEE Directive) aims to minimise the impact of electrical and electronic goods on the environment. Powersoft S.p.A. comply with the Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE) in order to reduce the amount of WEEE that is being disposed of in land-fill site.

All of our products are marked with the WEEE symbol; this indicates that this product must NOT be disposed of with other waste. Instead it is the user's responsibility to dispose of their waste electrical and electronic equipment by handing it over to an approved reprocessor, or by returning it to Powersoft S.p.A. for reprocessing. For more information about where you can send your waste equipment for recycling, please contact Powersoft S.p.A. or one of your local distributors.

EC Declaration Of Conformity

Manufacturer:
Powersoft S.p.A.
via E. Conti 5
50018 Scandicci (Fi)
Italy



We declare that under our sole responsibility the products:
Model Names: LOTO

Intended use: DSP Module

Are in conformity with the provisions of the following EC Directives, including all amendments, and with national legislation implementing these directives:

2014/35/EU	Low Voltage Directive
2014/30/EU	Electromagnetic Compatibility Directive
2011/65/EU	RoHS Directive

The following harmonized standards are applied:

EN 55032: 2012
EN 55035: 2017
EN 62368-1: 2014

Scandicci,
April 2019

Luca Lastucci
Managing Director
Luca Lastucci

For compliance questions only: compliance@powersoft.it

Electrostatic Discharge (ESD)

Electrostatic discharge (ESD) is one of the most significant factors leading to damage and failure of a wide variety of electronic components.

Poor handling can cause internal damage, which is invisible. This internal damage can then cause electrical failure or reliability problems.



It is recommended that all workstations where Electrostatic Discharge Sensitive devices (ESDS) and assemblies are handled outside of full static protection packaging (i.e. within static control areas) should be provided with some form of ground conductive or dissipative flooring.

LOTO Integration Kit Assembly instructions

7

7: 1.Introduction

Loto is a configurable DSP board available in three assembly solutions (Basic2, Advanced1D, Advanced2D). Each solution is composed by a preassembled heatsink (including a fan, a mains connector and an EMI filter), a DSP board including input interface and an output connector board, which depends on the chosen amplifier module. The shape of heatsink, constraint the type of amplifier modules fitting into it, they are listed in the table below

Supported modules	Code	Amplifier Configs
Minimod 4	PF000447	4xSE, 2xBTL, 2xSE+1xBTL, 2xPTL, 1xPBTL
Litemod 4HC	PF000349	4xSE, 2xBTL, 2xSE+1xBTL, 2xPTL, 1xPBTL
Litemod	PF000318	2xSE, 1xBTL
Litemod HV	PF000331	2xSE, 1xBTL

Refer to the appropriate module's user manual and spec sheet for power consumption specifications.

7: 2.Unpacking & Checking For Shipping Damage

Your Powersoft products were completely tested and inspected before leaving the factory. Carefully inspect the shipping packages before opening them, and then immediately inspect the content. If you find any damage to your new products, notify the shipping company immediately.

7: 3.Disposal Of The Packing Material

The transport and protective packing has been selected from materials, which are environmentally friendly for disposal and can normally be recycled. Rather than just throwing these materials away, please ensure they are offered for recycling.

7: 4.Programming the DSP

If not initialized correctly, when discovered in ArmoniaPlus, it will be displayed as "unknown model". Once you have the complete assembly in your hands, follow the configuration workflow described into the Loto.Px User guide that will guide you to configure Loto.Px based on the chosen amplifier module and output configuration.

7: 5.AC Main Filter

A 12A non-wrecovering fast SMT fuse is included in the filter. In case of a failure, contact the nearer authorized service centre.

7: 6.Earth Connection

Provide a mains voltage including the earth. The heatsink is grounded.

7: 7.Cabling

Wiring between the amp module and the load may lead to radio frequency noise. The following guide lines should be observed:

- ▶ reduced cabling length is advisable;
- ▶ keep cable pairs as close as possible to each other in order to minimize the antenna effect;
- ▶ design the cabling path far from RF noise source;
- ▶ set the cabling for RF noise rejection: shielded or twisted cables are advisable configuration (ref. [FIGURE 4](#));
- ▶ place ferrites as close to the module as possible

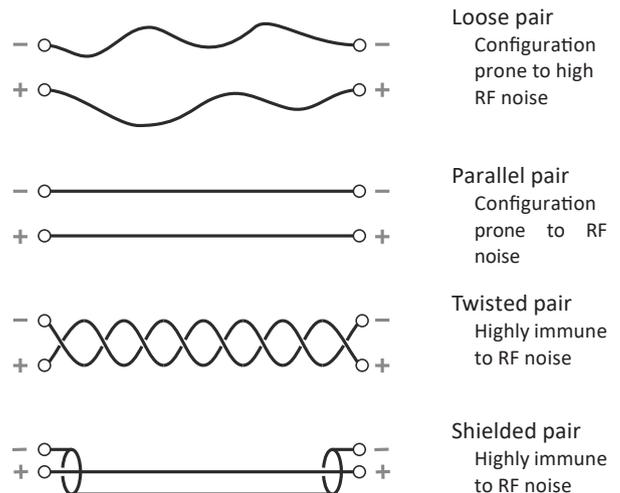


FIGURE 1: Cabling configuration.

7: 8.Ferrite Cores

Reject RF noise from input and output cabling by installing ferrite shields. Powersoft suggests the FAIR RITE 0431164181, or equivalent.

Wrap both cables around one side of each ferrite so that it pass through each ferrite twice (ref. [FIGURE 3](#)). Install the ferrite shield as close as possible to where the cable plugs into the amplifier. Placing the ferrite elsewhere on the cable noticeably reduces its effectiveness.

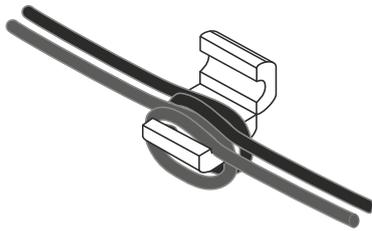


FIGURE 2: Ferrite core installation on I/O wirings.

7:9.Chassis shielding

If not already present on the product, a full body metal chassis or a shielding cage will provide best shielding of RF emission. In order to achieve the highest shielding, minimize the amount and size of holes or opening in the chassis.

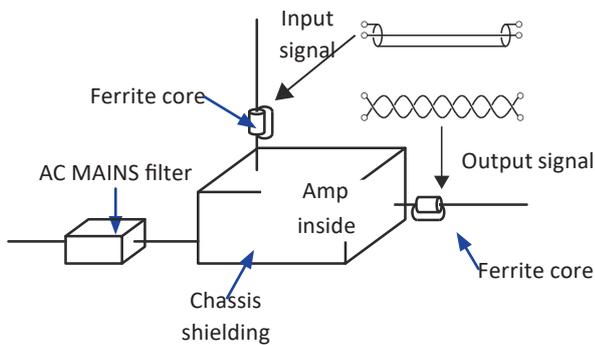
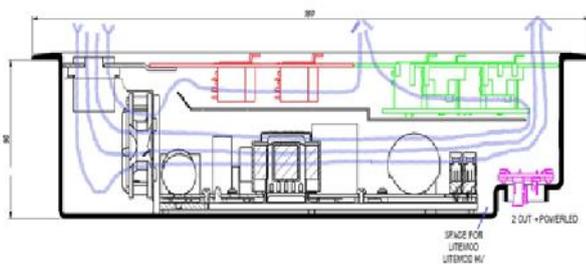


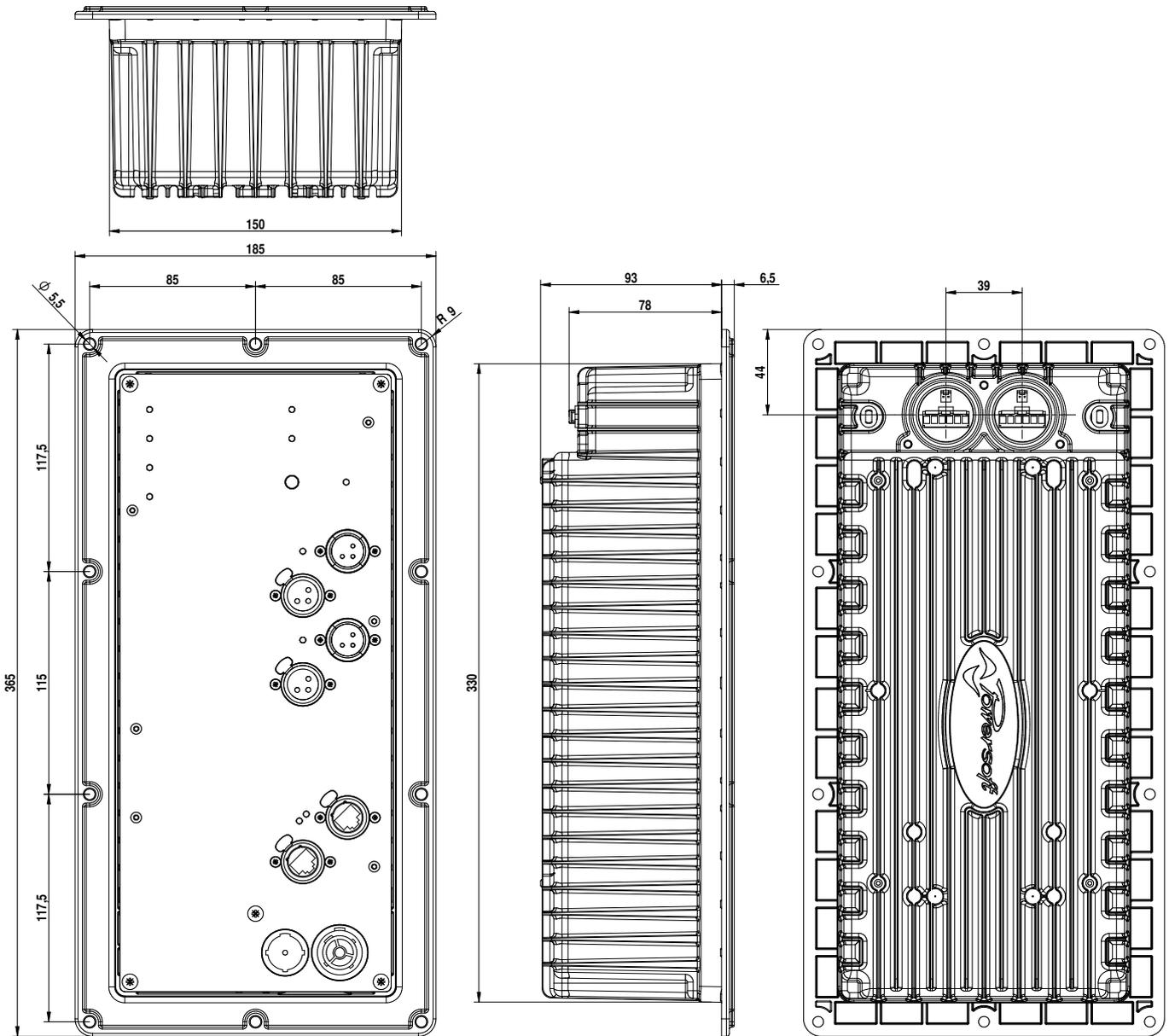
FIGURE 3: Tools and best practice for improving the electromagnetic compatibility.

7:10.Thermal Constrains

An internal fan guarantee the right amount of air flow inside the heatsink as indicated in the picture.



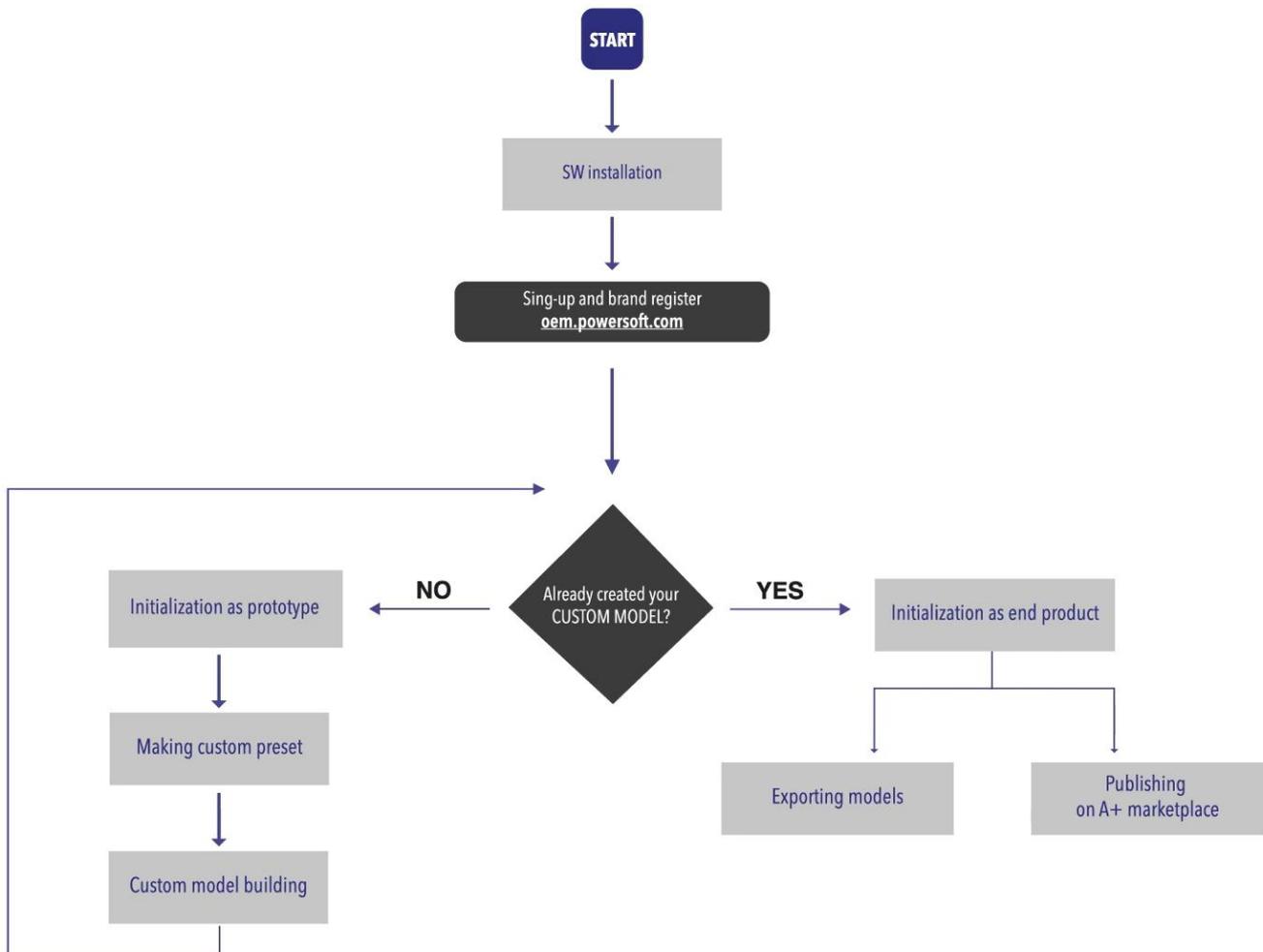
7: 11. Mechanical Drawings



Shown here: LOTO Basic 2 (the dimensions are the same throughout the line)

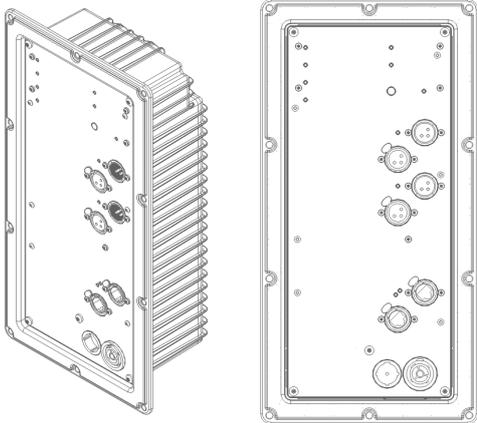
7:12.Workflow

Check out the user guide and available video tutorials.



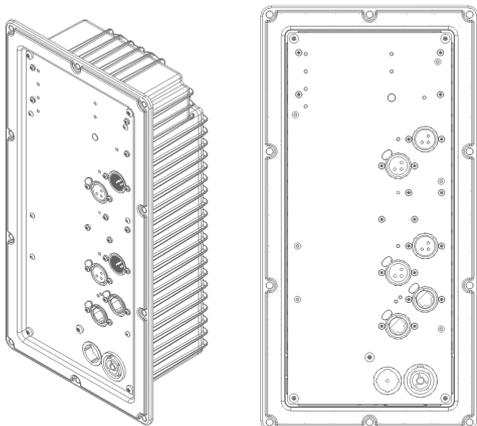
7:13. Available configurations

7:13.1. LOTO Basic2



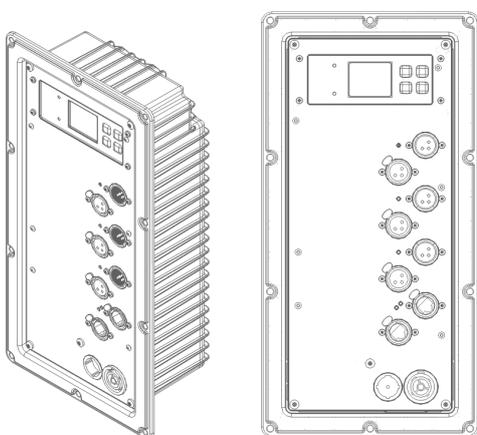
Code	Qty	Description	Description Details
SMC01056.R	1	LOTOPX BASIC2 DSP-ASY	Assembly including input interface
HS000010.R	1	LOTO HEATSINK	Preassembled Heatsink
ME001271.R	1	Front Panel BASIC2	metal plate
KTV00602.R	1	LOTO KIT SCREWS	Kit Screws
KTA00602.R	1	LOTO KIT LIGHTPIPE <u>BTN</u> CAP	Kit Accessories
PFXXXXXX	1	AMPLIFIER MODULE	Chosen one among the allowed modules listed above.
SM001172.R	1	LOTOPX/STD/SPKOUT4	4 ways speaker connector adaptor For Minimod4 and Litemod4HC
SM001173.R	1	LOTOPX/STD/SPKOUT2	2 ways speaker connector adaptor For Litemod and Litemod HV

7:13.2. LOTO Advanced 1D



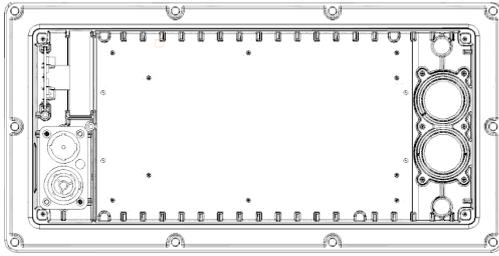
Code	Qty	Description	Description Details
SMC01057.R	1	LOTOPX ADV1 DSP-ASY	Assembly including input interface
HS000010.R	1	LOTO HEATSINK	Preassembled Heatsink
ME001337.R	1	Front Panel ADV1	metal plate
KTV00602.R	1	LOTO KIT SCREWS	Kit Screws
KTA00602.R	1	LOTO KIT LIGHTPIPE <u>BTN</u> CAP	Kit Accessories
PFXXXXXX	1	AMPLIFIER MODULE	Chosen one among the allowed modules listed above.
SM001172.R	1	LOTOPX/STD/SPKOUT4	4 ways speaker connector adaptor For Minimod4 and Litemod4HC
SM001173.R	1	LOTOPX/STD/SPKOUT2	2 ways speaker connector adaptor For Litemod and Litemod HV

7:13.3. LOTO Advanced 2D

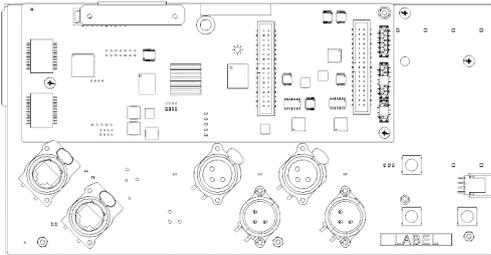


Code	Qty	Description	Description Details
SMC01058.R	1	LOTOPX ADV2D DSP-ASY	Assembly including input interface
HS000010.R	1	LOTO HEATSINK	Preassembled Heatsink
ME001338.R	1	Front Panel ADV2D	metal plate
KTV00602.R	1	LOTO KIT SCREWS	Kit Screws
KTD00602.R	1	LOTO KIT DISPLAY	kit for Display assembly
FR000004.R		LOTOPX KEYBOARD DISPLAY	Display
PFXXXXXX	1	AMPLIFIER MODULE	Chosen one among the allowed modules listed above.
SM001172.R	1	LOTOPX/STD/SPKOUT4	4 ways speaker connector adaptor For Minimod4 and Litemod4HC
SM001173.R	1	LOTOPX/STD/SPKOUT2	2 ways speaker connector adaptor For Litemod and Litemod HV

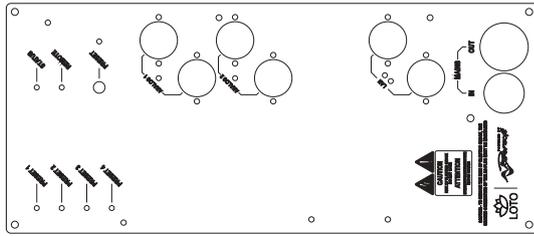
7:14.Parts



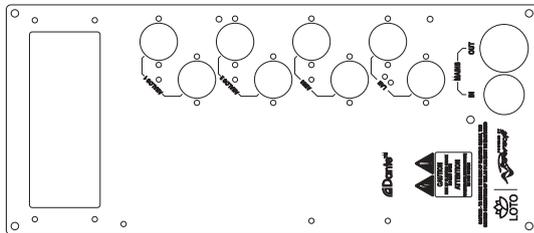
HS000010.00 Heatsink Assembly



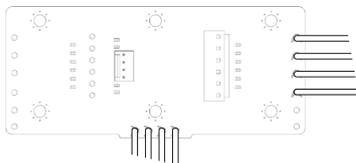
SMC01056.R DSP LOTO IK BASIC2 Assembly



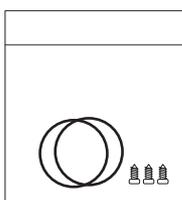
ME001271.R Front Panel BASIC2



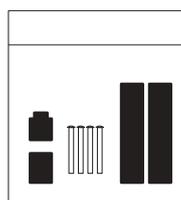
ME001338.R Front panel Advanced 2D



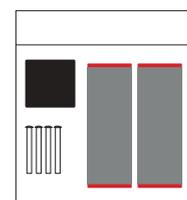
SM001173.RD Output connectors adaptor board (suitable for Litemod and Litemod HV)



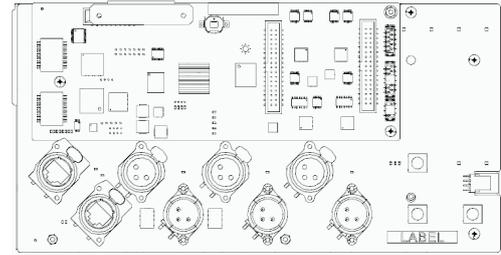
KTV00602.R Kit Screws



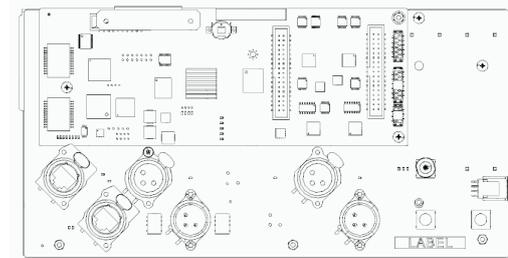
KTA00602.R Kit Accessories



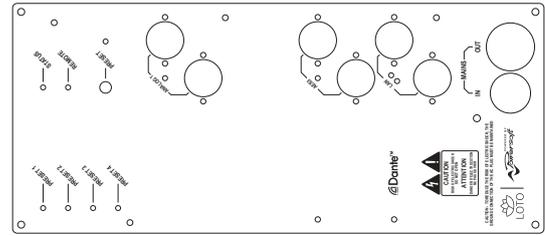
KTD00602.R Kit Accessories



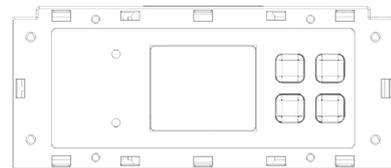
SMC01058.R DSP LOTO IK ADVACED2D Assembly



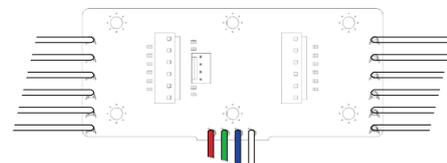
SMC01057.R DSP LOTO IK ADVACED1D Assembly



ME001337.R Front Panel Advanced1D



FR000004.R Display



SM001172.RD Output connectors adaptor board (suitable for Minimod4 and Litemod 4HC)

KTVO0602.R Kit Screws

Code	Description	Qty	Description Details
VI000370	SCW TCCH_ M4X6_____ ISO7048_	6	For output connector board adaptor assembly
VI000289	SCW TBTX_ M2.9X9.5__ ISO14585C	20	For front panel assembly: connectors
VI000112	SCW TBEI_ M3X6_____ ISO7380_	6	For front panel assembly
GU000104	LOTO ANELLO OR 3125 MAT. VITON	2	For output connector board adaptor assembly
GU000121.00	LOTO ANTI-VIBRATION PAD 3.18mm	2	Complete assembly
VI000434	SCW TBEI_ M4X8_____ ISO7380-1	5	For output connector board adaptor assembly
VI000081	SCW TCCZ_ M4X8_____ UNI7687_	6	For Module Amplifier assembly
VI000393	SCW TCBTX M3X6_____ SPEC_PWT	1	

KTA00602.R Kit Accessories for LOTO BASIC1D and LOTO ADVANCED1D

Code	Description	Qty	Description Details
ME001030	Light Pipe, Rigid, Panel	11	For front panel assembly LEDs version
IN000015	SWITCH CAP BLACK HEIGHT 10mm	1	For front panel assembly LEDs version
IN000016	SWITCH CAP EXTENDER BLACK H9mm	2	For front panel assembly LEDs version

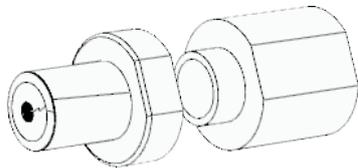
KTD00602.R Kit Accessories for LOTO ADVANCED2D

Code	Description	Qty	Description Details
ME001508	LIGHT PIPE FRONT PANEL D3H12.7	2	For front panel assembly DISPLAY version
CB000790	FLAT CABLE uMArch 12P L=75 mm	1	For front panel assembly DISPLAY version
CB000791	FLAT CABLE uMArch 10P L=75 mm	1	For front panel assembly DISPLAY version
ME001030	LIGHT PIPE FRONT MOUNT D3H25.4	5	For front panel assembly DISPLAY version
ET000859.00	LOTO LCD KEYBOARD LABEL	1	For front panel assembly DISPLAY version

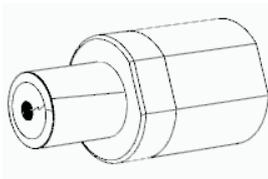
7: 15. Front Panel Assembly – ADV1D/BASIC2

7: 15.1. Push Button Assembly

Push together the switch cap (IN000015) and extender cap (IN000016)

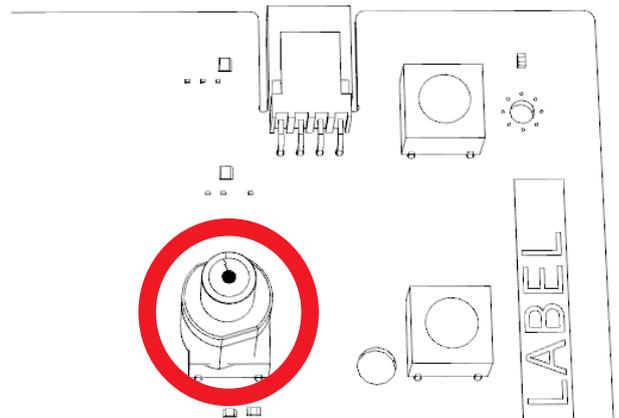


Push button complete assembly

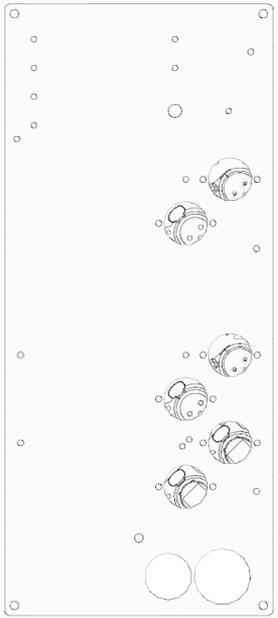


7: 15.2. Complete front panel + DSP assembly

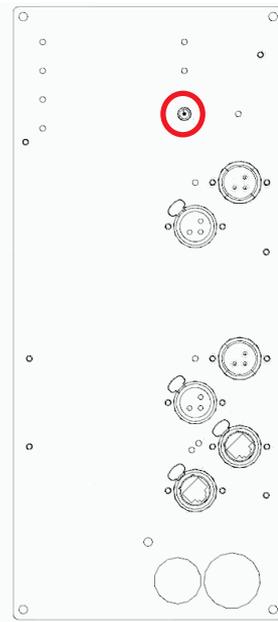
Insert the complete push button assembly on top of switch SW300 and the only cap extender (IN000016) on top of switch SW301 as indicated in the picture.



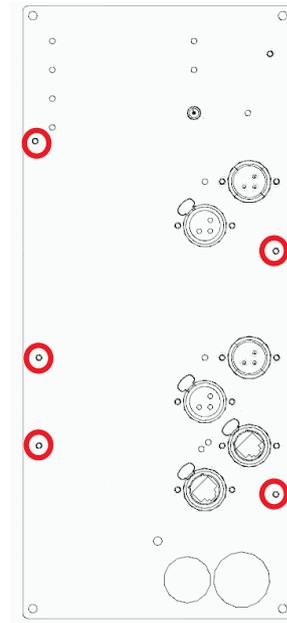
Place front panel on DSP LOTO IK ADV1D DSP assembly (SMC01058.RD,) push it and band it under the retention clips of XLR connectors up to finding its right position.



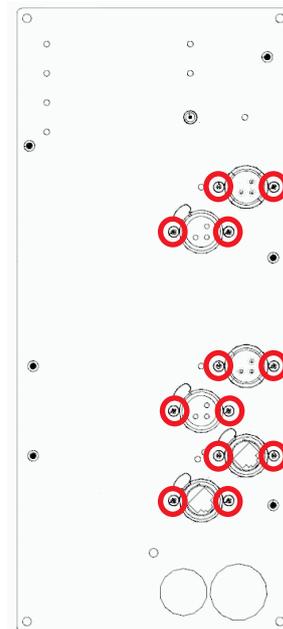
Make sure the push button to be well inserted inside its related hole of front panel



Screw the front panel to the related DSP assembly, by placing the 5 screws (VI000112) with a screwing torque of 0,4Nm.

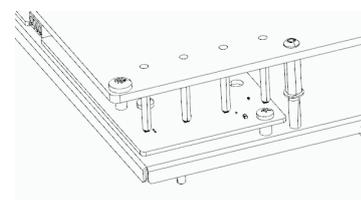


Screw the XLR connectors to front panel by placing the screws (VI000289) with a screwing torque of 0,1Nm



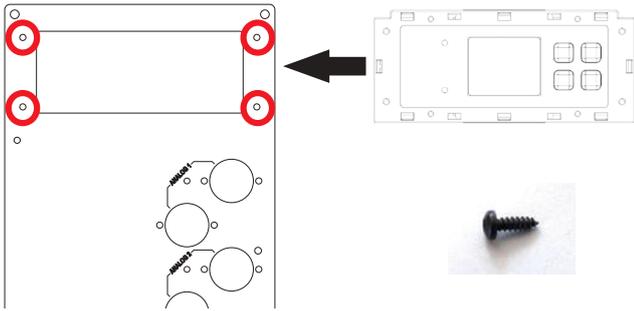
7 : 16.Insertion Of Pipe Lights

Insert pipe-lights into the front panel (their number depends on the chosen assembly model), pay attention to press down correctly the pipe-lights

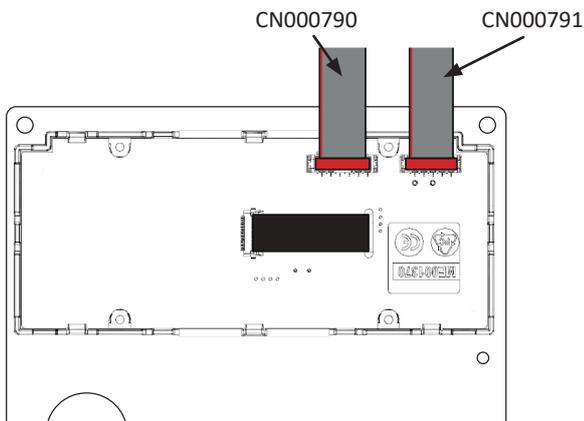


7:17.Front Panel Assembly – ADV2D

Fix display by 4 screws (VI000289) with a screwing torque of 0,1Nm

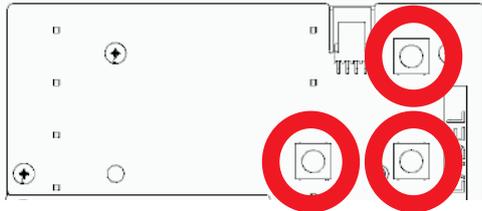


Rotate the assembly and insert the CN000790 e CN000791 cables on the display FR000004.R as in the picture

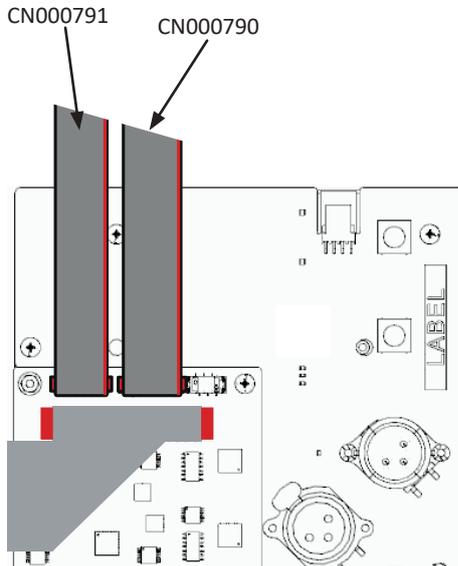


Remove the push buttons of SMC0105X.R (S1001, S1002, S1003) shown in the picture with a cutter.

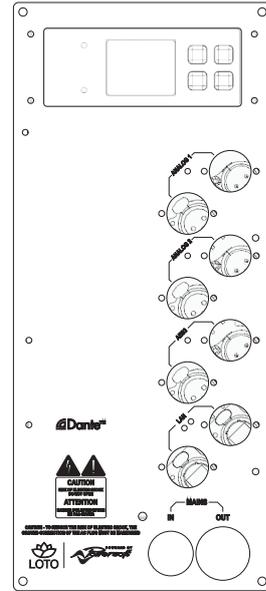
WARNING! Failure to remove the push buttons will result in an interference with the display.



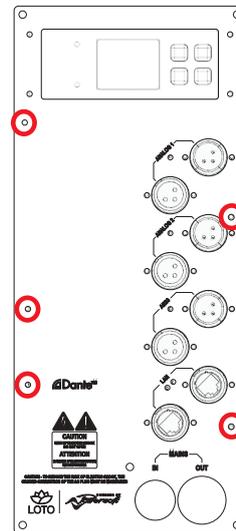
Connect CN000790 e CN000791 cables to the SMC0105X.R



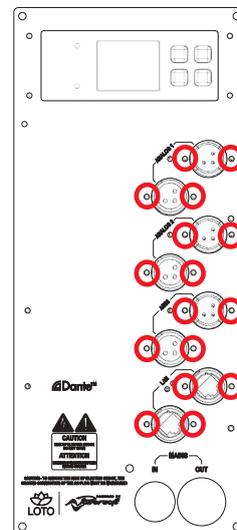
Assemble the DSP card on the control panel



Screw the front panel to the related DSP assembly, by placing the 5 screws (VI000112) with a screwing torque of 0,4 Nm.



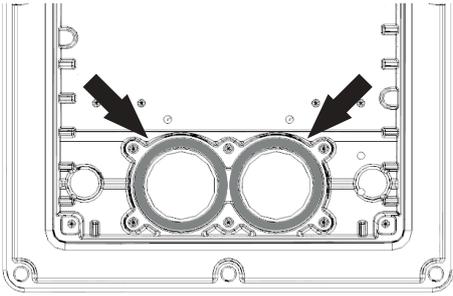
Screw the XLR connectors to front panel by placing the screws (VI000289) with a screwing torque of 0,1 Nm



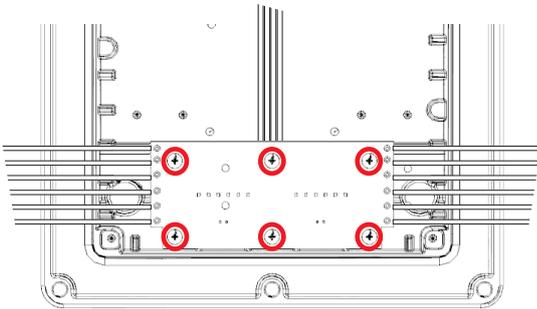
Insert pipe-lights into the front panel paying attention to press them down correctly. Their number depends on the chosen assembly model.

7 : 18.Assembly of output connector board

Insert the O-rings (GU000104)



Screw the SM001172.R or SM001173.R board into HS000010.00 by the 6 screws (VI000370) with a screwing torque of 0,7 Nm.

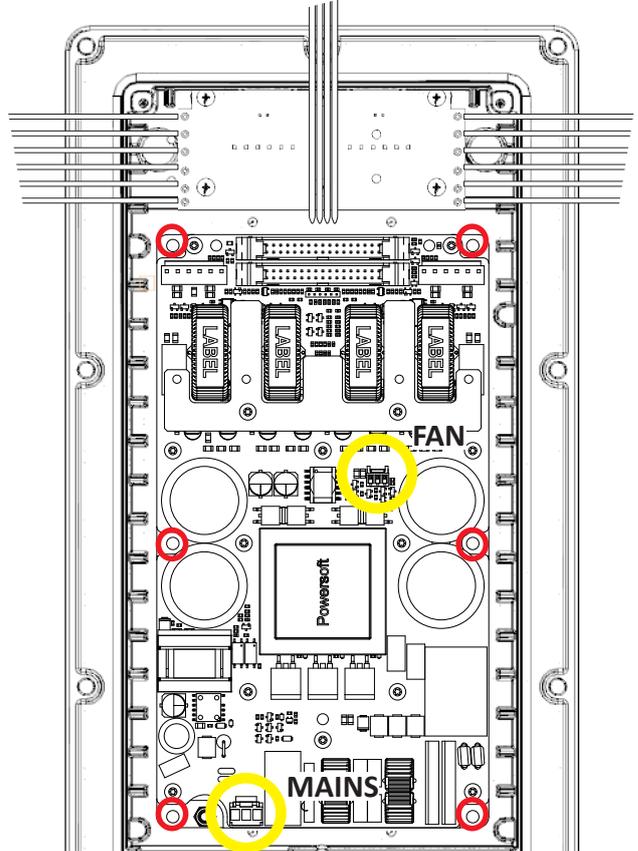


7 : 19.Assembly of Amplifier Module

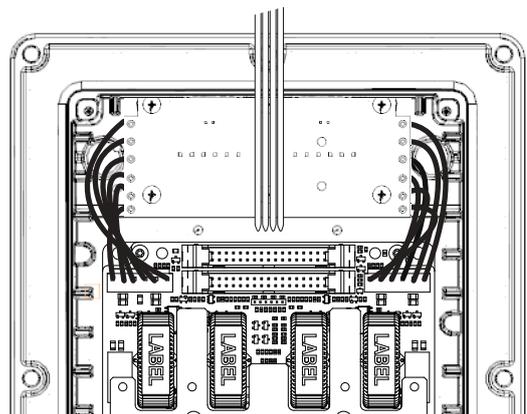
Screw the module in place by using 6 screws M4x8 (VI000081)

Insert the fan connector to the module as indicated by yellow circle in the picture, following the indicated path.

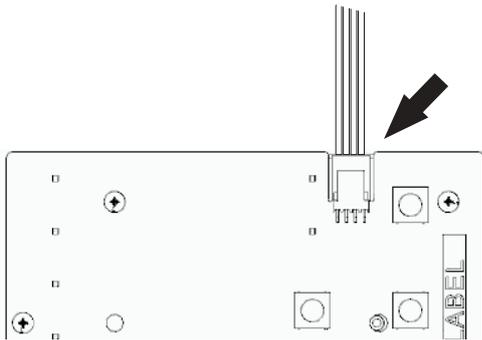
Insert the mains voltage connector and the fan connector indicated by yellow circles in the picture.



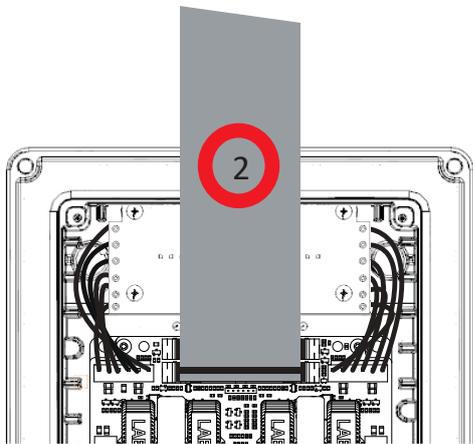
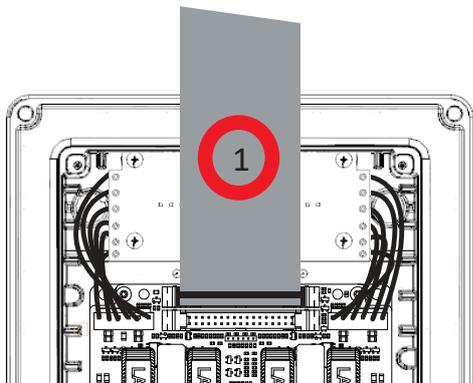
Connect output cables from the board SM001172.RD to the module



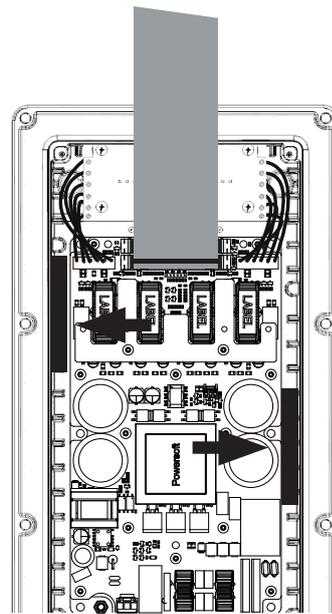
Insert the connector of external LED from SM001172.R into DSP LOTO Assembly



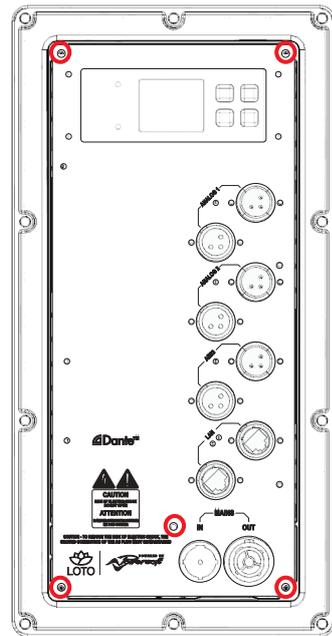
Insert the ribbon cables from DSP LOTO Assembly into the Litemod4HC



Place the adhesive rubber foam as indicated.

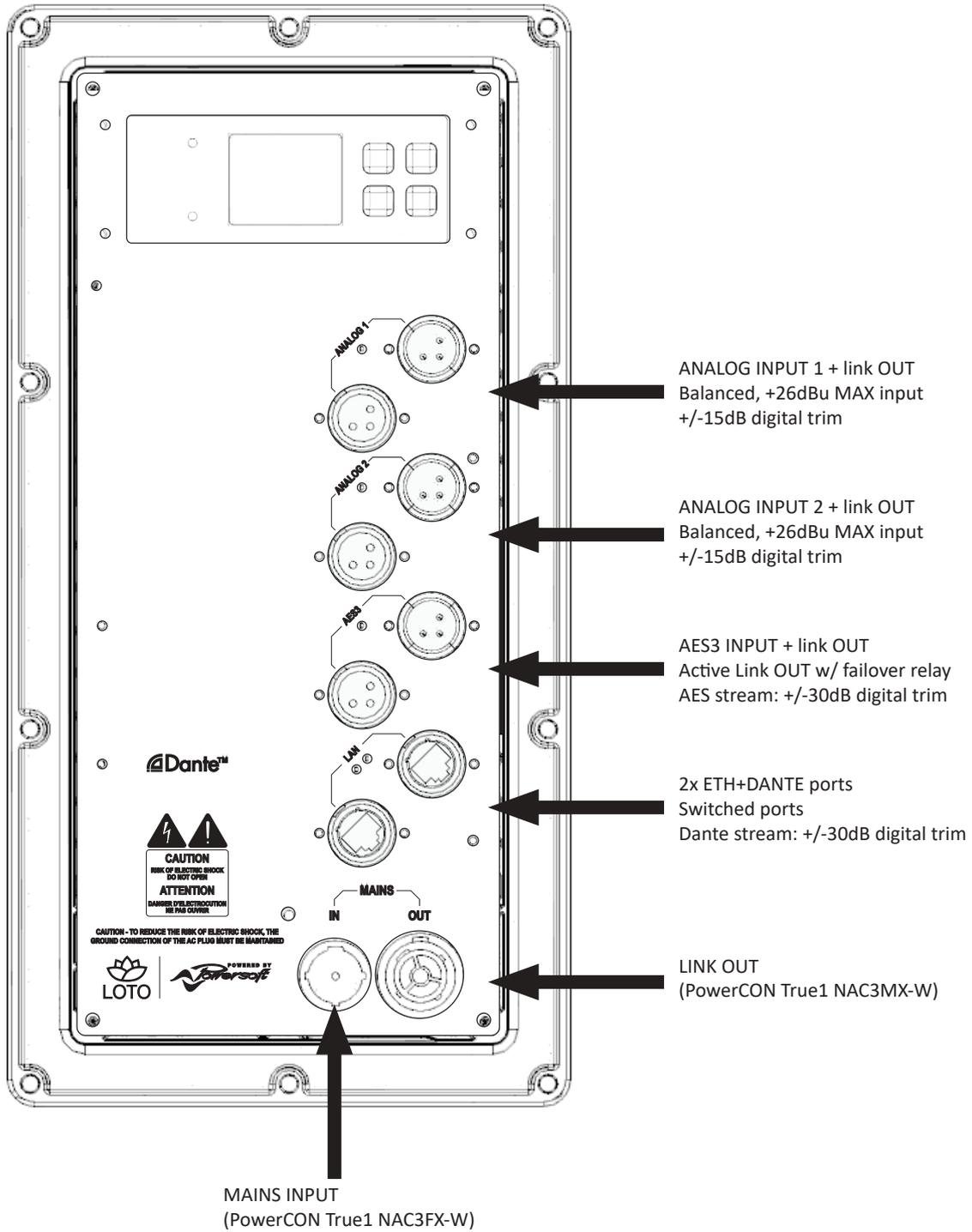


Screw the front panel by placing the 5 screws M4X8 (VI000434) with a torque of 0,7Nm



7:20.Connectors overview

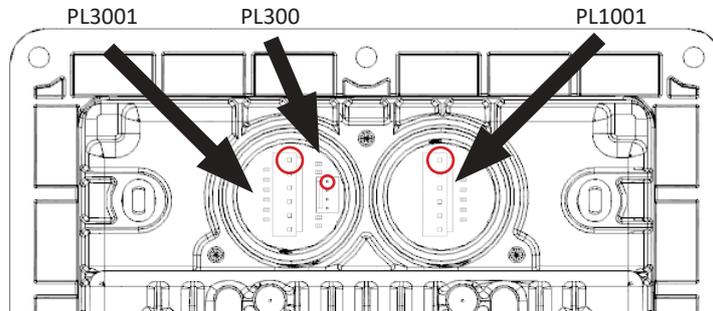
7:20.1.Input Connectors



7:20.2. Output Connectors

The rear panel includes three connectors (pin 1 is marked with a red circle):

- PL1001: amplifier output 1 & 3 (JST VHR-6N | Terminals: SVH-41T-P1.1)
- PL3004: amplifier output 2 & 4 (JST VHR-6N | Terminals: SVH-41T-P1.1)
- PL300: External LED for front-cabinet mount (mating with housing Molex 22-01-3047)



Pinout for Litemod4HC, Minimod4

PIN#	PL1001 Polarity	PL3001 Polarity
1	CH1 (-)	CH2 (+)
2	CH1 (+)	CH2 (-)
3	CH3 (-)	CH4 (+)
4	CH3(+)	CH4 (-)
5	GND	GND
6	PARALLEL	PARALLEL

Pinout for Litemod, Litemod HV

PIN#	PL1001 Polarity	PL3001 Polarity
1	NC	CH2 (+)
2	NC	CH2 (-)
3	NC	CH1 (+)
4	NC	CH1 (-)
5	NC	NC
6	NC	NC

Pinout for PL300

PIN#	
1	Common-anode Ext. RGB LED
2	Cathode Ext. RGB LED B
3	Cathode Ext. RGB LED G
4	Cathode Ext. RGB LED R

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