

Service Documents

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Vertraulich! Nur für autorisierte Servicetechniker! Nicht zur Weitergabe an Dritte freigegeben!

A.C.T.O.R DX 115A SUB

Note!

The components used in this product - particularly parts affecting safety as well as speakers and transformers - were developed and manufactured to certain specifications. Please use original spare parts only to ensure the product remains fully functional and safe.

Achtung!

Die in diesem Produkt verwendeten Komponenten, insbesondere sicherheitsrelevante Teile, Lautsprecher und Transformatoren wurden nach spezifischen Vorgaben entwickelt und gefertigt. Bitte benutzen Sie ausschließlich Original-Ersatzteile – nur so ist die volle Funktionalität und Sicherheit gewährleistet.





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Welcome to the HK AUDIO family!

Thank you for choosing an HK AUDIO product.

ACTOR DX consists of two ADX 112 A mid/high units loaded with a 12" woofer, 1. 4" driver and a DDO™ system controller, two ADX 115 A Sub subwoofers with an onboard 1,000 W RMS Class D power amp, and two ADX 115 Sub B subwoofers, the passive complement to the Sub A bin.

You don't have to worry about tweaking frequencies and finessing levels, all you have to do is set up the system components, connect the signal-carrying cables and the power cords, and you're ready to roll.

An HK AUDIO® active system is made up of more than just two active cabinets; it is an end-to-end sound reinforcement solution consisting of sub-woofers, mid/high units and meticulously matched electronic circuitry.

Our engineers developed new technologies to satisfy the stringent requirements of such an advanced system. With its unique and sophisticated features, every active HK AUDIO® sound reinforcement system stands out in the crowd of far more basic active cabinets.

All the best from the HK AUDIO team; enjoy your ACTOR DX system!

Warranty

Register your ACTOR DX using the enclosed warranty card to extend your warranty to five years free of charge!

Use the convenient **online registration** option at **www.hkaudio.com**.

If you are unable to register online, please fill out the enclosed warranty card completely and mail or fax it to us. The registration is only valid if the warranty registration card is filled out and returned to HK AUDIO® or the device is registered via the Internet within 30 days of the date of purchase. We are also interested in learning where our devices are used and by whom. This information will help us design future products. Your information is of course protected by privacy laws.

Thank you!

HK AUDIO®

Technical Service Postfach 1509 D-66959 St. Wendel Germany

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Unique features for premium performance



Digital amping

- for enhanced efficiency and dynamics

With an extremely high efficiency rating topping the 90% mark, Class D digital power amps are substantially smaller, lighter, and more compact than comparable conventional amps. The reduced thermal load on components enhances reliability, while the far faster slew rate and higher attenuation factor audibly enhance the speed and accuracy of the system's dynamic response.



DDO™ Controller technology

The DDO™ Controller compensates for varying response of components such as low-frequency, midrange and high-frequency speakers, power amps, crossovers and so forth to forge a homogenous system with uniform dynamics and a sonic image with sharply defined contours.



DuoTilt™

- making the most of sonic energy

The novel DuoTilt™ pole mount allows sound energy to be utilized far more efficiently. DuoTilt™ offers 7.5° and 15° angles of tilt, enabling perfect mid/high unit-to-audience alignment. Troublesome ceiling reflections are minimized, making the sound clearer, tighter, and more focused.



Easy Setup and Handling

- for less pre-gig stress

Like all HK AUDIO Active Systems, ACTOR DX was designed as a cohesive system consisting of perfectly matched components. Painstaking effort was invested in ensuring ACTOR DX can be transported easily and set up quickly. Handling and EQing couldn't be any easier, with no complicated and time-consuming tweaking challenges to master.



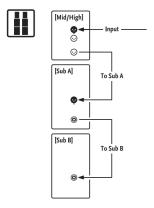
ADX 112 A



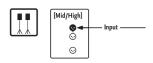
ADX 115 Sub A



ADX 115 Sub B



Standard system connections



Connections for full-range setup

1 ACTOR DX System Components

ADX 112 A Mid/High Unit

These enclosures are loaded with one 12" HK AUDIO Custom speaker and one 1. 4" compression driver with a 60° x 40° CD horn. Delivering 600 W RMS, the Class D power amp is housed in a separate chamber along with the DDO™ Controller.

ADX 115 Sub A Subwoofer

The ACTOR DX A Sub's housing is split up into two chambers. The front chamber serves as the speaker cabinet for the 15" front-loaded loudspeaker, which has a power handling capacity of 500 W RMS and a nominal impedance of 8 ohms. The power amp is housed in a separate compartment at the rear of the cabinet.

ADX 115 Sub B Subwoofer

The housings and speakers of the ADX 115 Sub Bs and Sub A are identical. The Sub B is the passive version of the Sub A.

2 Transport

To transport the system, simply set the subwoofers on their casters and place the mid/high units onto the subwoofers with the foam rubber grille side facing down. Use original HK AUDIO, covers to get your system ready to handle the rigors of the road. Padded and protected against moisture, your ACTOR DX system is sure to serve you well for a long time to come.

3 Setup and Cable Connections

3.1 The Standard ACTOR DX System



The standard system comprises two ACTOR ADX 112 A mid/high units, two ADX 115 Sub A subwoofers and two ADX 115 Sub B subwoofers.

Always connect ACTOR DX starting at the top and working your way down (refer to the diagram on the rear panel of ACTOR DX components)! This may seem unusual if you are accustomed to working with active systems where signals are routed via paralleled pass-through jacks, which would allow connections to be made in any sequence. ACTOR DX. in contrast, features the DDO™ System Controller housed in the ADX 112 A mid/high unit. This controller lets you determine basic settings such as the system configuration, the mid/high unit's level and the subwoofer's level right on the $\operatorname{mid/high}$ unit. $\operatorname{DDO^{\textsc{t}}}$ then routes signals from the mid/high unit to Sub A.

Note: Always connect cords in the correct sequence. Never connect a cord carrying a signal from a mixer directly to Sub A because this bypasses the DDO™ system controller! Always connect signal sources to the "master" system input located on ACTOR DX mid/high units!

3.2 ACTOR DX Full-range Setup



The full-range setup comprises two ACTOR ADX 112 A mid/high units.

Select the appropriate system configuration on the system controller's control panel. In full-range mode, the subwoofer output (DDO™ controlled) is disabled to prevent handling errors.

3.3 ACTOR DX Club Set



The club set comprises two ACTOR ADX 112 A mid/high units and two ADX 115 Sub A bins.

3.4 Dual ACTOR DX System



The dual system comprises four ACTOR ADX 112 A mid/high units, four ADX 115 Sub A bins and four ADX 115 B Sub bins.

Connect cables from top to bottom as described above. Plug a microphone cord into the first mid/high unit's THROUGH port to route the mixer signal to the second ACTOR DX stack. Ensure XLR connectors are wired as follows: 1= ground, 2= +, 3= -

3.5 Flying ACTOR ADX 112 A Mid/High Units

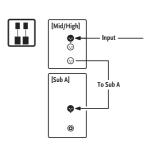
Use the HK AUDIO rigging frame to fly ACTOR DX mid/high units. To attach the frame, remove the countersunk M10 hex head bolts from the side panels. Bolt the rigging frame's brackets to the enclosure. Set the mid/high unit's inclination to the desired angle by loosening the knobs on the sides and firmly hand-tightening them again. The serrated plastic washers hold the mid/high unit in place.

Note: For reasons of safety, use tested and certified load-securing devices only (for example, halfcouplers, TV spigots, brackets, and so forth)!

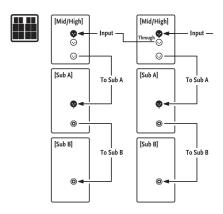
Ensure wall and pole mounts are designed to handle the load (an ACTOR ADX 112 A weighs 30 kg).

3.6 Using the ACTOR DX Tilt Unit

Using the optional tilt unit couldn't be easier: Proceed as if mounting the enclosure on a pole. Set the ACTOR DX tilt unit with the bottom plate facing down on the upper subwoofer and then set the ACTOR mid/high unit on it so the tilt unit's rod is inserted into one of the two holes (7.5° or 15°).



Club set connections



Dual system connections



ACTOR ADX 112 A with rigging bracket

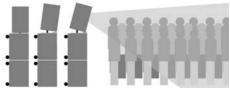
Question

Can I connect speakers other than an ACTOR DX mid/high unit to an ACTOR DX Sub A or Sub B subwoofer?

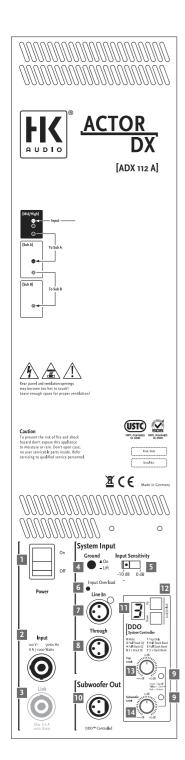
Answer

The system components are acoustically matched

for optimum audio performance and may be operated in the indicated configuration only. Using other mid/high units can degrade the sound and damage the power amp (e.g. the Sub A's). Sub A's nominal impedance is 4 ohms, and impedance may not fall short of this value. Connect no more than one Sub B to Sub A's speaker out.



The ACTOR DX tilt unit in action



ACTOR ADX 112 A

4 Connections and Control Features

4.1 ACTOR ADX 112 A

1 Power Switch

Handling: This is the on/off switch for the active system. When engaged, the system controller's display lights up orange.

Always switch the ACTOR DX active system on last, that is, after powering up all other components, and switch it off first before powering down all other connected devices.

2 Mains Input

Connecting cords: Use the factory-included Power-con cable to connect this socket to a wall receptacle. Caution! Make sure the local mains voltage matches the voltage specified on the device. If you connect the system to the wrong mains voltage, you may destroy the ACTOR DX system's electronic components.

3 Link (only 220-240 V version)

Connecting cords: The Powercon Link socket is wired in parallel to the Mains Input. Connect other load consumers (for example, another ACTOR DX mid/high unit or an ACTOR DX Sub A bin) to it.

Heads up: The Powercon Link socket can handle loads up to 8.6 A and 2060 W (at 230 volts). This means you can use it to power up to but no more than two additional ACTOR DX components.

Note: Always switch on ACTOR DX components one after another to prevent a sudden spike in the venue's power supply. Otherwise the power surge may cause the house circuit breaker to trip.

4 Ground

Ground lift button for separating the signal and chassis ground in the event of humming noises. In the event of low-frequency hum, engage the Ground Lift switch. The ground circuit is severed when this button is pressed. If this doesn't solve the problem, check all cords connected to ACTOR DX as well as all signal cables routed to the mixing console for damage (see also Tips and Tricks).

5 Input Sensitivity

This selector matches the preamp's input sensitivity to the mixer's output signal level.

Engage this switch to select either -10 dB (for example, for unbalanced 1/4" jacks and consumer level devices) or +0 dB (for example, for balanced XLR ports and professional mixers).

Recommendation: Select +0 dB when using a professional-grade mixer sporting balanced outputs. This lets you take advantage of console faders' full control range and helps prevent overloads.

Opt for -10 dB A when using a console with a lower output level (unbalanced 1/4" output).

6 Input Overload

This LED lights up when the input level is too high and the entire system (preamp and controller) is being overdriven. Not only does this result in unpleasant distortion, it can also harm the system's components. If the red LED lights up, reduce the level (volume) at the mixer!

7 Line In

Connecting cords: Connect cords carrying signals from your mixer (master left/right, line out, or a similar circuit) to the balanced inputs using a mic cord equipped with XLR connectors.

Ensure XLR connectors are wired as follows:

1= ground, 2= +, 3= -.

8 Through

Connecting cords: Use this parallel output to route the incoming line signal to other components (for example, to additional ACTOR DX mid/high units) via XLR cords.

9 Limiter LEDs

These are the active system's "rev counters," serving to indicate the limiter's operating status.

10 Subwoofer Output

Connecting cords: Use this output to send the subwoofer signal from the DDO™ controller to an ACTOR ADX 115 Sub A via an XLR cord.
Ensure XLR connectors are wired as follows:
1= ground, 2= +, 3= -.

11 Display

Read-out: The numeric display indicates the currently selected system configuration.

o Mute

1 Top only
2 Half Stack DJ
3 Half Stack Band
4 Full Stack BJ
5 Full Stack Band
6 Dual Stack DJ
7 Dual Stack Band
1 mid/high unit, 1 Sub A+ Sub B
2 mid/high unit, 1 Sub A+ Sub B
2 mid/high units, 2 Sub A+ Sub B
2 mid/high units, 2 Sub A+ Sub B

L Locked buttons are disabled U Unlocked buttons are enabled

12 Up/Down Buttons

Use these buttons to select system configurations.

Operation: To enable the buttons, press Up and Down simultaneously and hold for about one to two seconds. The letter U (for unlocked) appears briefly in the display. Now you can press Up and/or Down to select the desired setup (see the table above). The buttons are automatically disabled soon thereafter. The letter L (locked) appears briefly in the display.

13 Top Level

Operation: Use this knob to determine the volume of the mid/high unit. The standard setting is 0 dB at the 12 o'clock position. This means the level is neither boosted nor cut.

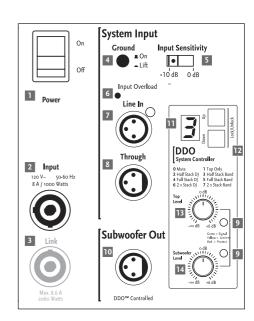
14 Subwoofer Level

Operation: When the knob is set to the 12 o'clock position, the subwoofer's and the mid/high unit's respective volumes are matched, ensuring bass and mid/high ranges are rendered in balanced musical proportion. If desired, twist the Subwoofer Level knob to the left to decrease and to the right to increase the subwoofer's level by up to 6 dB.

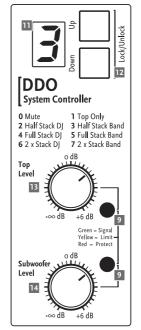
Tip: If necessary or desired, use the Subwoofer Level knob to boost or cut bass frequencies below 100 Hz rather than resorting to the mixer's master EQ.

15 Rigging Points

Attach the ACTOR DX rigging frame here to fly the mid/high unit from a truss or similar suspension device.



ACTOR ADX 112 A control features



Control features of the ACTOR DX system controller

More about limiter LEDs

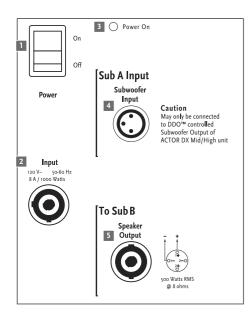
A dedicated LED indicates the limiter status for the mid/high-range signal path and the subwoofer circuit, respectively.

What do the lights mean?

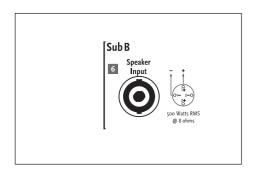
The green LED indicates that the given input is receiving a signal. As long as the LED lights up green, the system is operating at low-to-medium levels, with plenty of headroom available for the

power amps. Yellow indicates that the system is being pushed close to its threshold. The yellow LED may flash at regular intervals, but it may not illuminate continuously. If it does this, back off the volume on your mixer.

If the LED constantly lights up red, there is a problem in the power amp and the system will shut down. In this case, have a qualified service technician check the device.



Control features of the ACTOR ADX 115 Sub A



Control features of the ACTOR ADX 115 Sub B

4.2 ACTOR ADX 115 Sub A

1 Power Switch

Operation: This is the on/off switch for the active system. When engaged, the Power On LED lights up red. Always switch the ACTOR DX active system on last, that is, after powering up all other components, and switch it off first before powering down all other connected devices.

2 Mains Input

Connecting cords: Use the factory-included Power-con cord to connect this socket to a wall receptacle. Caution! Make sure the local mains voltage matches the voltage specified on the device. If you connect the system to the wrong mains voltage, you may destroy the ACTOR DX system's electronic components.

3 Power On LED

This LED lights up when the Power switch is set to ON and the system is connected to a mains power supply.

4 Subwoofer Input

Connecting cords: To patch the signal from the DDO™ controller to a Sub A bin, plug one end of a mic cord equipped with XLR connectors into the mid/high unit's Subwoofer output and the other into the Subwoofer Input. Ensure XLR connectors are wired as follows: 1= ground, 2= +, 3= -.

Note: Never patch the mixer's line and/or master signal directly into Sub A's Subwoofer Input. This bypasses the system's controller, crossover, equalization and protection circuitry, risking serious damage to the subwoofer. Read chapter 3, Setup and Cable Connections, for more on this.

5 To Sub B Speaker Output

Connecting cords: Use this parallel Speakon® output to connect a passive ACTOR DX B Sub bin.

Note: Be sure to twist the Speakon" connectors clockwise until they lock in place! You must first disengage the safety catch before you can unplug the connector. To do this, pull the bayonet catch towards the cord. Pin assignments are pin 1+=+, pin 1-=-.

Feel free to use a four-core cable if you wish, though pin 2+ and 2- remain unused, of course.

4.3 ACTOR ADX 115 Sub B

6 Sub B In

Connecting cords: Connect the Speakon® input to the ADX 115 Sub A bin's Speaker Output using a suitable loudspeaker cord.

5 Tips and Tricks

Do not expose electronic circuitry to moisture! When you set the system up outdoors, be sure to protect it against rain. Keep soft drinks, beer and all other liquids well away from the cabinets to protect their electronic components from short circuits.

Ensure that the ducts on the enclosures' rear panels are free of dirt and the devices are ventilated properly. Otherwise, electronic components may overheat and suffer damage.

ACTOR DX delivers optimum sound, so you should provide it with optimum input signals! Noise such as humming is generally caused by defective cables, the wrong type of cords, or unbalanced signals routed into the mixing console. Check all signal and mains cables.

Prevent distortion! Not only is it unpleasant to your audience's ears, it also endangers your equipment. Make sure all components that are connected directly and indirectly to ACTOR DX have sufficient power ratings, and that they don't distort because they're running at their respective limits. Provide an undistorted signal to the system that doesn't have to be cleaned up by backing off the Gain knob.

Avoid ground loops! You may encounter a ground loop when the mixer is grounded via a mains cord which isn't connected to the same mains circuit as ACTOR DX. To prevent this problem, always connect the ACTOR DX system and the mixing console to the same electrical circuit (same phase!). If your equip-

ment hums despite this precaution, the Ground Lift switch can be a great help.

CAUTION: Never tape over the plug's ground terminalæthis endangers lives!

6 ACTOR DX Accessories

HK AUDIO ACTOR DX Tilt-Unit

Designed to hold the ACTOR DX mid/high unit, the tilt unit is placed on the subwoofer, with the DuoTilt™ fitting offering a choice of 7.5° or 15° angles.

HK AUDIO Dust Covers for ACTOR DX

This set comprises subwoofer and satellite covers. Extremely tear resistant, water repellant and thickly padded, these covers afford lasting protection for the ACTOR DX system during transport.

HK AUDIO ACTOR DX Rigging Frame

Easy-to-mount U bracket for attaching half-couplers, TV spigots and clamps.

To learn more about original HK AUDIO accessories, talk to your HK AUDIO dealer or visit www.hkaudio.com.

7 Troubleshooting

The Power On LED or display does not light up red when switched on.

- 1 Check if the power cord is plugged into the Mains Input.
- 2 Check if the mains power supply is providing current.
- 3 Check if the house circuit breaker has tripped.

The Power On LED lights up red, but the cabinets produce no sound.

- 1 Check the cords connected to the inputs.
- 2 Check if the signal sources (mixer, keyboard, CD player, etc.) are on.

- 3 Are the Gain knobs turned up?
- 4 Check the speaker cords for damage.
- 5 Check if the Speakon" connectors are locked (twisted to the right). An electrical connection is established only if their locking mechanism engages.

The subwoofer's low frequency output is weak.

- 1 Check the setting of the Subwoofer Level knob. Set Sub A's volume to the desired level using the Subwoofer Level.
- 2 Check if the system configuration "Top Only" is selected on the system controller. This mutes the subwoofers.

The signal sounds distorted.

- 1 Check the LED displays on your mixer. Ensure they are not constantly in the red. If necessary, back off the volume at the mixer.
- 2 If the LED displays on your mixer are in the green, but the sound is still distorted, back off the Level knobs on the ACTOR ADX 112 A enclosures.
- 3 Observe the Input Overload indicator and the Limiter LEDs on the ACTOR DX mid/high units' control panels. It is acceptable for these to flash yellow from time to time, but under no circumstances may the yellow LEDs illuminate continuously. If they do, turn down the Level knobs. Check also the Input Sensitivity setting. If the signal is saturated, set it to +o dB.

Annoying hum

- 1 Check the cords connecting the signal source to ACTOR DX. Replace damaged cords.
- 2 If you cannot pinpoint the cause of the humming, engage Ground Lift. This should remedy the problem in most cases.

8 Technical Specifications

ACTOR ADX 112 A

Connections: 1x XLR Line In

1x XLR Line Through
1x XLR Subwoofer Output

Line In: XLR female (pin 1= Ground; 2=+, 3=-)
Input: Electronically balanced & floating

Input impedance: 20 k ohms

Sensitivity: Switchable from -10 dB to 0 dB (= +4 dBu)

Max. input level: +22 dBu

Frequency response +/- 3dB:1) 80 Hz – 19 kHz full-range mode

130 Hz - 19 kHz Stop-only mode

Axial sensitivity 1W@1m:2) 106 dB

Maximum SPL @1m: 2) 129 dB @ 10% THD Mid/high-range amplifier: 1x 600 W RMS/ Class D

Active protective circuits: DDO™ Controller Multiband Limiter, Subsonic Filter

Midrange speaker: 12"
Tweeter/ driver: 1.4"

Directivity: 60° x 40° CD horn Crossover frequency: 950 Hz, 12 dB/octave

Pole mount: HK AUDIO DuoTilt™, 36 mm, 7.5°, 15°

Rigging points: 4 M10 threaded bushings for attaching an optional

rigging bracket

Accessories: ACTOR DX Tilt-Unit, 7.5°, 15°
Dimensions (WxDxH): 39 cm x 65 cm x 42 cm
15 1/4" x 25 5/8" x 16 1/2"

32 kg/ 70.6 lbs.

General electrical data:

Weight:

Protection class 1 (protectively earthed)

Max. current consumption: 4.4 A (230 V)

8 A (120 V) 8 A (100 V)

Max. power consumption: 1000 VA Mains voltage range: +/-10% Ambient temperature range: -10° C to $+35^{\circ}$ C

Internal fuses: T8A

¹⁾ Via active crossover

²⁾ All measurements taken under half-space conditions

ACTOR ADX 115 Sub A

Connections: 1x XLR Subwoofer Input

1x XLR Subwoofer Through 1x Speakon® Parallel Out

Subwoofer Input: XLR female (pin 1= Ground; 2= +, 3= -)
Input: Electronically balanced & floating

Input impedance: 20 k ohms

Sensitivity: +10 dBu (turned all the way up)

Max. input level: +22 dBu
Frequency response +/- 3dB: 1) 48 Hz - 130 Hz
Axial sensitivity 1W@1m: 2) 104 dB

Maximum SPL @1m: 2) 126 dB @ 10% THD Subwoofer amplifier: 1x 1,000 W RMS / Class D

Active protective circuits: DDO™ Controller, Multiband Limiter, Subsonic Filter

Woofer:

Pole mount: M20 thread base plate

Castors Four 100 mm castors on the rear panel Dimensions (WxHxD): 48 cm x 65 cm x 66 cm incl. castors

18 7/8" x 25 5/8" x 26" 36.6 kg/ 80.0 lbs.

General electrical data:

Max. power consumption:

Ambient temperature range:

Mains voltage range:

Weight:

Protection class 1 (protectively earthed)

Max. current consumption: 13 A (230 V) 8 A (120 V)

8 A (100 V) 1000 VA +/- 10% -10° C to +35° C

Internal fuses: T8A

ACTOR ADX 115 Sub B

Connections: 1x Speakon® Input
Nominal power handling: 500 W RMS/ 8 ohms
Frequency response +/- 3dB: 1) 48 Hz – 130 Hz
Axial sensitivity t 1W@1m: *) 104 dB

Maximum SPL @1m: *) 126 dB @ 10% THD

Woofer: 15 Pole mount: -

Castors Four 100 mm castors on the rear panel Dimensions (WxHxD): 48 cm x 65 cm x 66 cm incl. castors

18 7/8" x 25 5/8" x 26"

Weight: 33.7 kg/ 74.3 lbs.

This is to certify that

HK AUDIO® ACTOR DX

complies with the provisions of the Directive of the Council of the European Communities on the approximation of the laws of the Member States relating to electromagnetic compatibility (EMC Directive 89/336/EEC) and the low voltage Directive (73/23/EEC).

This declaration of conformity of the European Communities is the result of an examination carried out by the Quality Assurance Department of STAMER GmbH in accordance with European Standards EN 50081-1, EN 50082-1and EN 60065 for low voltage, as laid down in Article 10 of the EMC Directive.

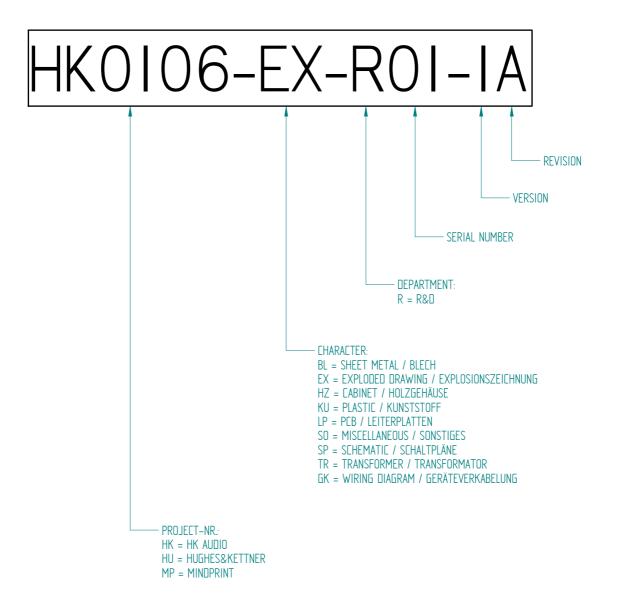


66606 St.Wendel

Lothar Stamer Dipl.Ing. Managing Director St.Wendel, 04/15/05

* Stamer Musikanlagen manufactures exclusively for HK AUDIO®.

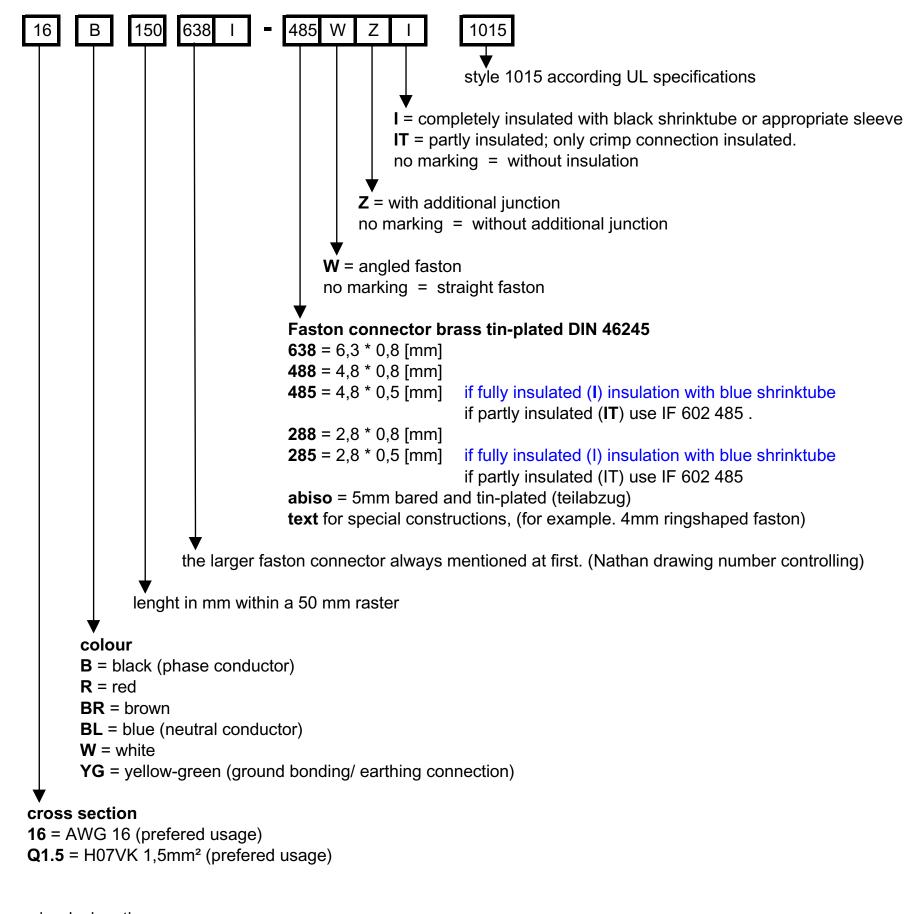
DRAWING-NUMBERS EXAMPLE





Stand 17. Jun 04

Standard for single wire confection.



wire designation:

P + Ifd Nr. = AWG single wire black, red, blue, brown or white

E + Ifd Nr. = AWG single wire green- yellow

L + Ifd Nr. = twisted AWG double wire, lenght specification always in twisted condition

FQL + Ifd Nr. = crossover wiring H07VK

Regarding special wirings like wiring harness or similar, drawings will be prepared and appropriate drawing numbers will be stored in the article archive.



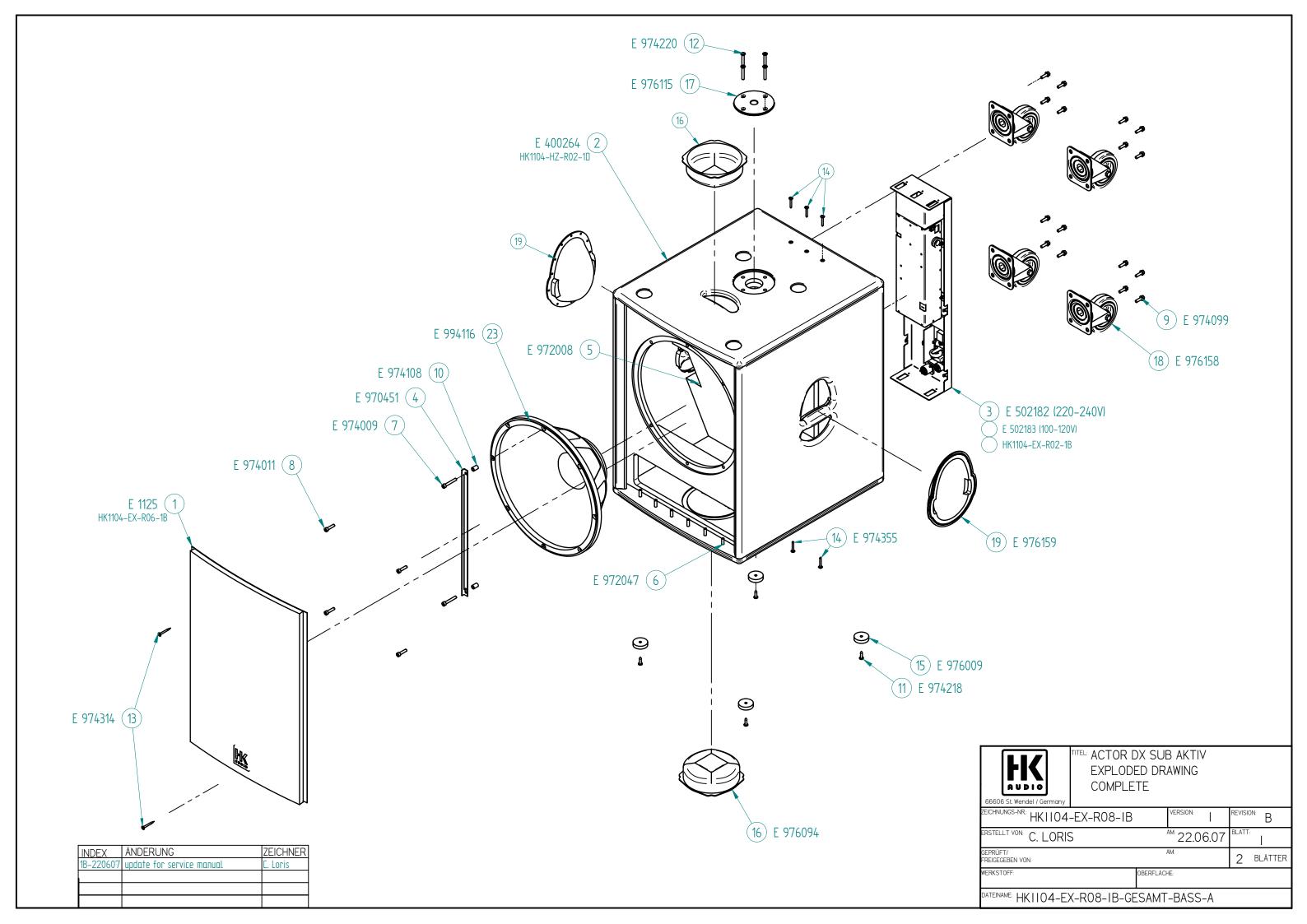
Service Documents

HK1104

A.C.T.O.R DX 115A Subwoofer

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роѕ. по.	part-no. 1	part-no. 2	description	Beschreibung	quantity
1	1125		front grille assembly Actor DX sub	Frontgitter Actor DX Bass	1
2	400264		Wooden Cabinet, ACTOR DX Sub Active	Holzgeh. ACTOR DX Sub Aktiv	1
3	502182 (220-240V)	502183 (100–120V)	Chassis Actor DX Sub Active	Chassis Actor DX Sub Aktiv	1
4	970451		front grille reinforcement profile	Blech Verstrebungswinkel	1
5	972008		damping wool	Dämmwolle Hochbauschvlies	1
6	972047		PE-foam tube	PE-Schaumstoff-Röhrchen	12
7	974009		hexagon socket head cap screw, M6x40, black	Inbusschraube M6*40 sw	2
8	974011		hexagon socket head cap screw, M6x25, black	Inbusschraube M6*25 sw	4
9	974099		Mechanical locking screw, TENSILOCK W151, M6x20	Sperrzahnschraube M 6*20 vz, Tensilock W151	16
10	974108		plastic PCB spacer, 6.2x10x15, Polyamid black	Dist.Hülse PE 6,2*10*15 [mm]	2
11	974218		ABC-Spax-S chipboard screw, panhead Z, 5x20, black	Pan Head–Z ABC–Spax sw 5*20	4
12	974220		hexagon socket countersunk head screw, M6x40, black	Inbussenkschraube M6x40 sw	4
13	974314		ABC-Spax-S screws for backwall, 4x40, black	Rückwandschraube, 4*40 sw	2
14	974355		cross recessed panhead tapping screw with collar, 3.9x30, black	Blechschr. KFR-Kopf 3,9* 30 sw	5
15	976009		rubber foot D38*H11 [mm]	Gummifuss D38*H11 [mm]	4
16	976094		plastic dish 3403 HKBS! DART!	Griffschale 3403 HKBS! DART!	2
17	976115		connector plate	Befestigungsplatte M20	1
18	976158		castor 100mm, blue	Lenkrolle 100mm, blau	4
19	976159		plastic dish Premium One	Griffinnenschale Premium One	2
20*	982037		sealing tape 2x6mm	Iso-Zell-Band fadenvers. 2*6mm	0,66 lfdm
21*	986015		foam glue, Jowatac	Schaumstoffklebstoff Jowatac	XXX
22*	988165		1k polyurethane glue, 310mltrs. tube	Polyurethan 1-K Kleber, 310ml Kartusche	XXX
23	994116		Eminence 151659B 80hms	Eminence 151659B 80hms	1

INDEX	ÄNDERUNG	ZEICHNER
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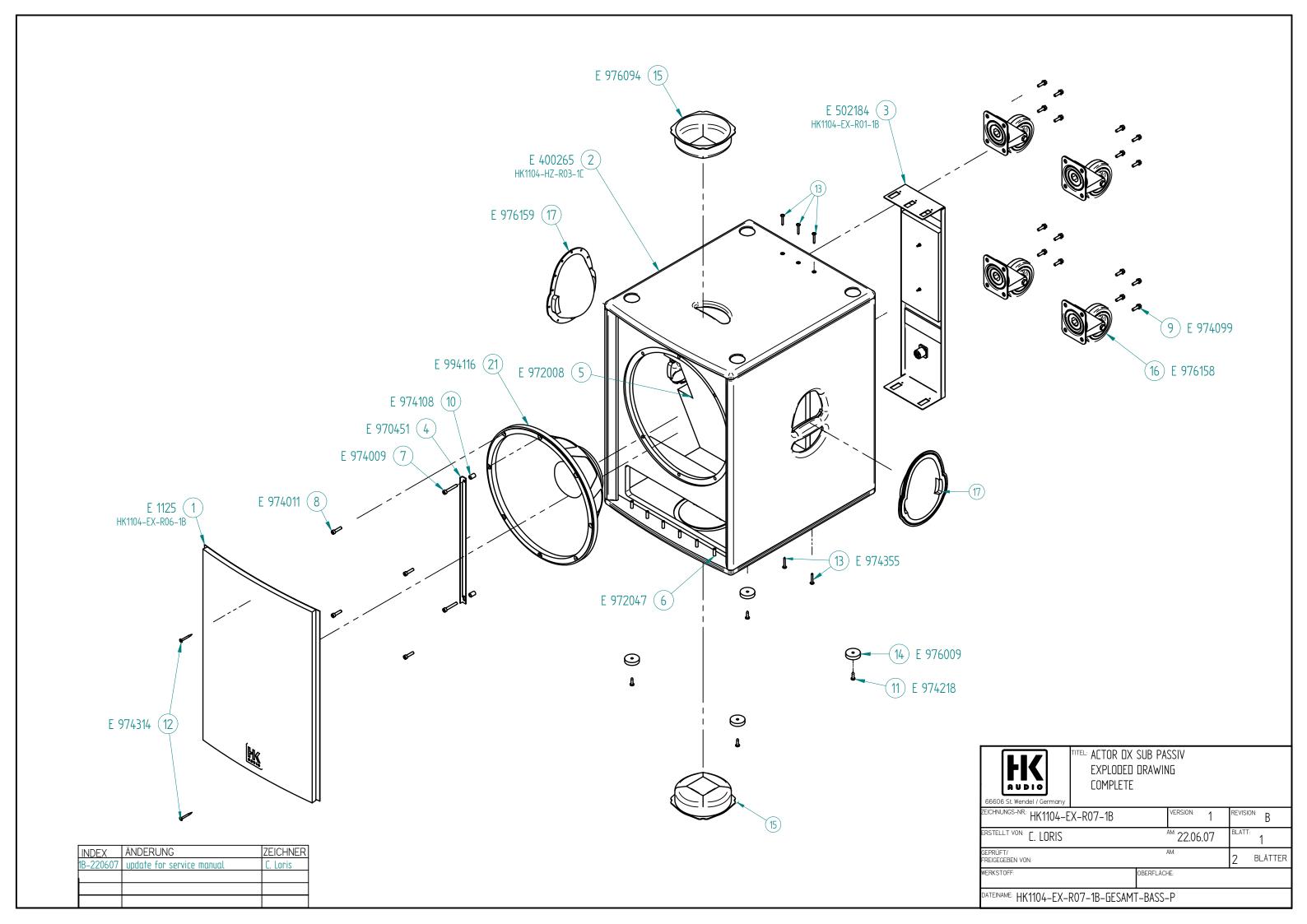
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eene	Ct Wandal / Carman

EXPLODED DRAWING COMPLETE

| Capacity | Capacity

REIGEGEBEN VON:
WERKSTOFF: OBERFLÄCHE:

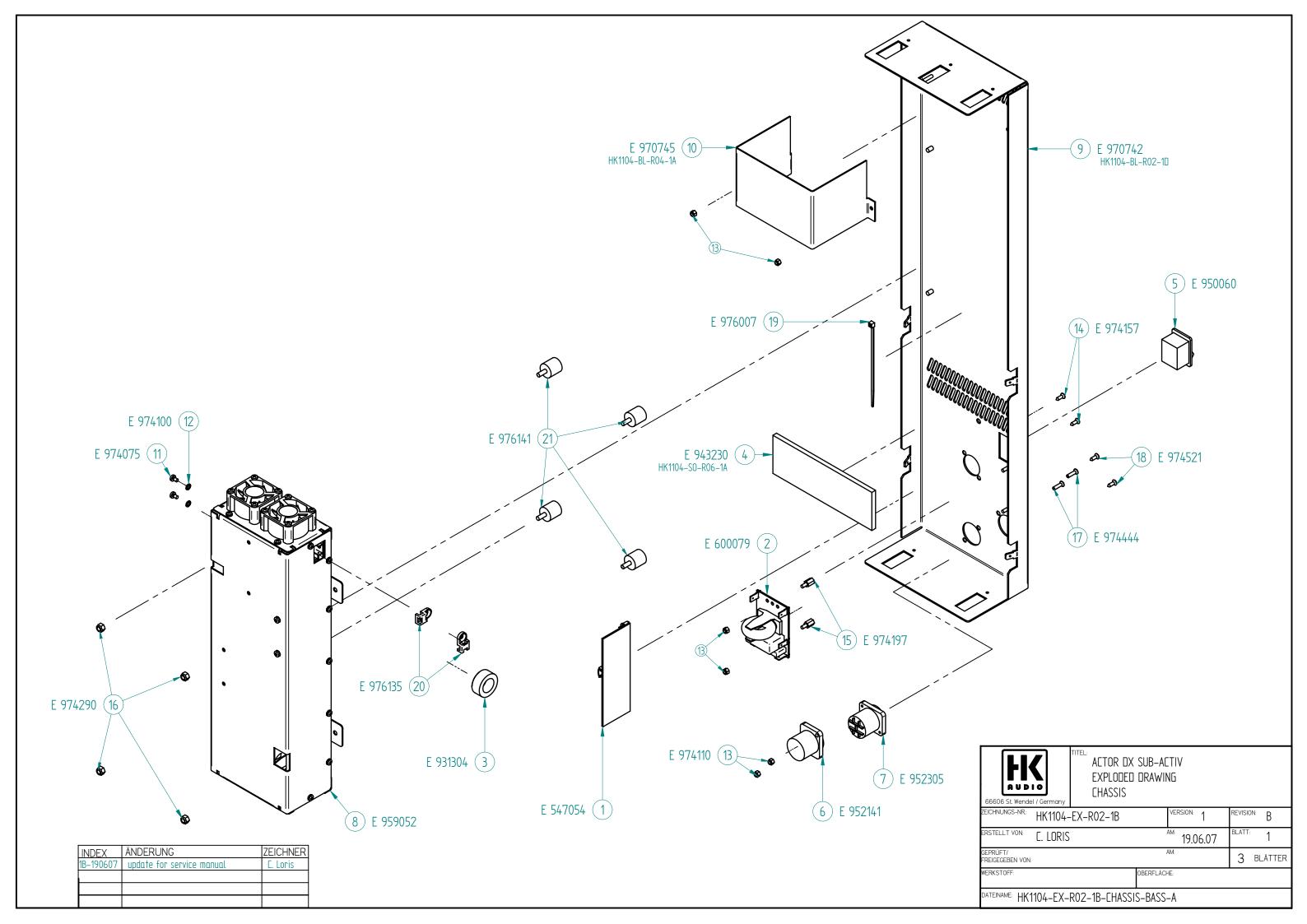
DATEINAME: HKIIO4-EX-RO8-IB-GESAMT-BASS-A



pos. no.	part-no. 1	description	Beschreibung	quantity
1	1125	front grille assembly Actor DX sub	Frontgitter Actor DX Bass	1
2	400265	Wooden Cabinet, ACTOR DX Sub Passive	Holzgeh. ACTOR DX Sub Passiv	1
3	502184	Chassis Actor DX Sub Passive	Chassis Actor DX Sub Passiv	1
4	970451	front grille reinforcement profile	Blech Verstrebungswinkel	1
5	972008	damping wool	Dämmwolle Hochbauschvlies	1
6	972047	PE-foam tube	PE-Schaumstoff-Röhrchen	12
7	974009	hexagon socket head cap screw, M6x40, black	Inbusschraube M6*40 sw	2
8	974011	hexagon socket head cap screw, M6x25, black	Inbusschraube M6*25 sw	4
9	974099	Mechanical locking screw, TENSILOCK W151, M6x20	Sperrzahnschraube M 6*20 vz, Tensilock W151	16
10	974108	plastic PCB spacer, 6.2x10x15, Polyamid black	Dist.Hülse PE 6,2*10*15 [mm]	2
11	974218	ABC-Spax-S chipboard screw, panhead Z, 5x20, black	Pan Head–Z ABC–Spax sw 5*20	4
12	974314	ABC-Spax-S screws for backwall, 4x40, black	Rückwandschraube, 4*40 sw	2
13	974355	cross recessed panhead tapping screw with collar, 3.9x30, black	Blechschr. KFR-Kopf 3,9* 30 sw	5
14	976009	rubber foot D38*H11 [mm]	Gummifuss D38*H11 [mm]	4
15	976094	plastic dish 3403 HKBS! DART !	Griffschale 3403 HKBS! DART!	2
16	976158	castor 100mm, blue	Lenkrolle 100mm, blau	4
17	976159	plastic dish Premium One	Griffinnenschale Premium One	2
18*	982037	sealing tape 2x6mm	Iso-Zell-Band fadenvers. 2*6mm	0,44 Lfdn
19*	986015	foam glue, Jowatac	Schaumstoffklebstoff Jowatac	XXX
20*	988165	1k polyurethane glue, 310mltrs. tube	Polyurethan 1-K Kleber, 310ml Kartusche	XXX
21	994116	Eminence 151659B 80hms	Eminence 151659B 80hms	1

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FIX A U D I O 66606 St. Wendel / Cermany	EXPLODED COMPLETE					
zeichnungs-nr.: HK1104–E	:X-R07-1B		VERSION:	1	REVISIO	DN: B
erstellt von: C. LORIS		,	^{AM:} 22.06	.07	BLATT:	2
GEPRÜFT/ FREIGEGEBEN VON:		ļ	AM:		2	BLÄTTER
WERKSTOFF:		OBERFLÄCH	IE:			
DATEINAME: HK1104–EX–I	DATEINAME: HK1104-EX-R07-1B-GESAMT-BASS-P					



pos. no.	part-no. 1	description	Beschreibung	quantity
1	547054	ADX115 SubA Input Board	Actor DX Bass Inputboard	1
2	600079	mains filter, DEACON / ACTOR	Netzfilter Deacon 230-100V	1
3	931304	ferrite teroid core, 25x15x12	Ferritring, geschlossen 25x15x12	1
4	943230	dust filter, ACTOR DX "RO6"	Staubschutz, ACTOR DX "R06"	1
5	950060	hi-inrush, mains rocker switch, C13150VB	Netzschalter gross C1350VB	1
6	952141	mains inlet PowerCon	Netzbuchse Power Con Inlet	1
7	952305	speakon chassis connector, NL4MP-3	Speakonbuchse 4pol eckig, NL4MP-3	1
8	959052	PWM amp module 100–240V	PWM Endstufe 100-240Volt	1
9	970742	Sheet Metal Chassis, ACTOR DX Sub A	Blech Actor DX Sub Akt Chassis	1
10	970745	ACTOR DX, sheet metal air guide	Blech Actor DX Lüftungskanal	1
11	974075	cross recessed panhead screw, M3x5, zinc plated	Linsenschraube M3x5 vz	2
12	974100	toothed lock washer, D=3,2, AZ, black zinc plated	Fächer-Scheibe az, 3,2 sw vz	2
13	974110	self locking hexagon nut with plastic insert, M3, zinc plated	Stopmutter M3 vz	6
14	974157	cross recessed raised countersunk tapping screw, 2.9x9.5, black	Blechschr. Senk-Li 2,9*9,5 sw	2
15	974197	hexagon PCB spacer, type B, M3x8, zinc plated	Dist. Bol Innen/Außengew. M3*8 vz	2
16	974290	self locking hexagon nut with plastic insert, M4, zinc plated	Stopmutter M4 vz	4
17	974444	cross recessed raised countersunk screw, M3x12, black	Linsensenkschraube M3*12 sw	2
18	974521	cross rec. raised counters. tap. screw w. cutting slot, 2.9x9.5, black	Senkschr. f. Kunststoff 2,9*9,5, sw	2
19	976007	cable tie 2,5x100 (mm)	Kabelbinder natur 2,5x100 (mm)	9
20	976135	socket for cable tie	Schraubsockel	2
21	976141	rubberbuffer 15x15 B	Gummipuffer GM-Puffer 15x15 B	4
22*	982044	sealing tape 2x15mm	Iso-Zell-Band fadenvers. 2*15mm	0,17 Lfdm
23*	986002	foam glue, Simalfa	Schaumstoffklebstoff Simalfa	XXX
24*	988206	pre-cut part transfer tape 1573	Transferbandzuschnitt 1573	0,20 lfm

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ACTOR DX SUB-ACTIV
EXPLODED DRAWING
CHASSIS

ERSTELLT VON: C. LORIS

GEPRÜFT/
FREIGEGEBEN VON:

GERSTELLT VON: C. LORIS

AM: 19.06.07

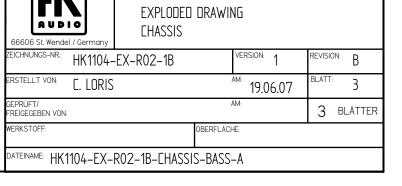
AM: 19.06.07

AM: 3 BLÄTTER

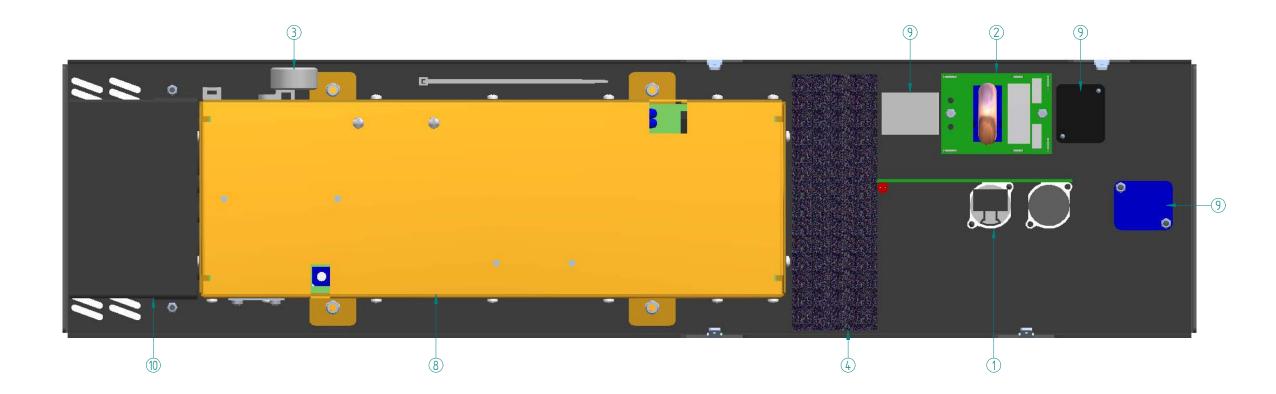
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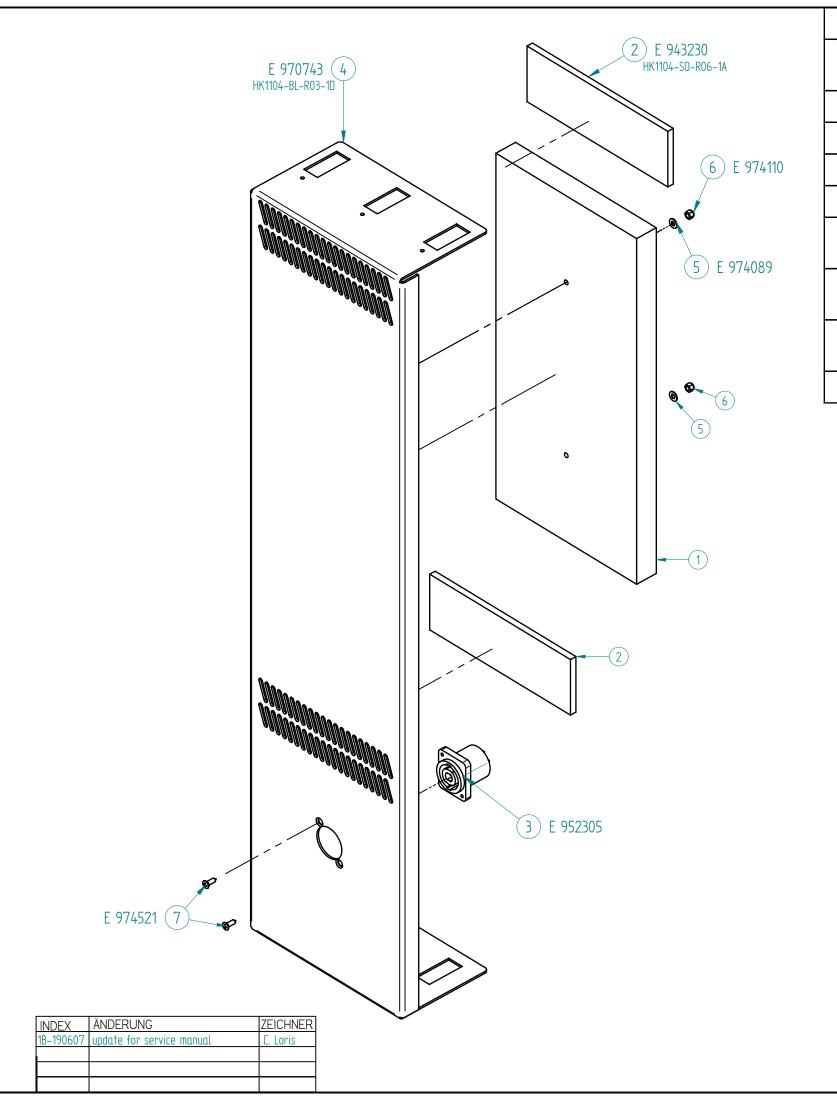
DATEINAME: HK1104-EX-R02-1B-CHASSIS-BASS-A

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1B-190607	update for service manual	C. Loris	
			1



ACTOR DX SUB-ACTIV





Pos.	part-no. 1	description	Beschreibung	Menge
1		board without part-no.	Aussteifung- Brett aus Schreinerei ohne Artikel-Nr.	1
2	943230	dust filter, ACTOR DX "R06"	Staubschutz, ACTOR DX "R06"	2
3	952305	speakon chassis connector, NL4MP-3	Speakonbuchse 4pol eckig, NL4MP-3	1
4	970743	Sheet Metal Chassis, ACTOR DX Sub P	Blech Chassis Actor DX Sub Pas	1
5	974089	washer, form A, D=3.2mm, zinc plated	Unterleg-Scheibe 3,2 vz	2
6	974110	self locking hexagon nut with plastic insert, M3, zinc plated	Stopmutter M3 vz	2
7	974521	cross rec. raised counters. tap. screw w. cutting slot, 2.9x9.5, black	Senkschr. f. Kunststoff 2,9*9,5, sw	2
8*	982078	sealing tape 2x20mm	Iso-Zell-Band fadenvers. 2*20mm	0,60 Lfdm
9*	988206	pre-cut part transfer tape 1573	Transferbandzuschnitt 1573	0,20 lfm



HK1104 – ACTOR DX EXPLODED DRAWING CHASSIS SUB – PASSIV

ZEICHNUNGS-NR: HK11043-EX-R01-1B VERSION: 1 REVISION: B

ERSTELLT VON: C. LORIS

GEPRÜFT/
FREIGEGEBEN VON: 2 BLÄTTER

WERKSTOFF: OBERFLACHE:

DATEINAME: HK1104-EX-R01-1B-CHASSIS-BASS-P

2 3

INDEX ÄNDERUNG ZEICHNER
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FIC AUDIO

HK1104 – ACTOR DX EXPLODED DRAWING CHASSIS SUB – PASSIV

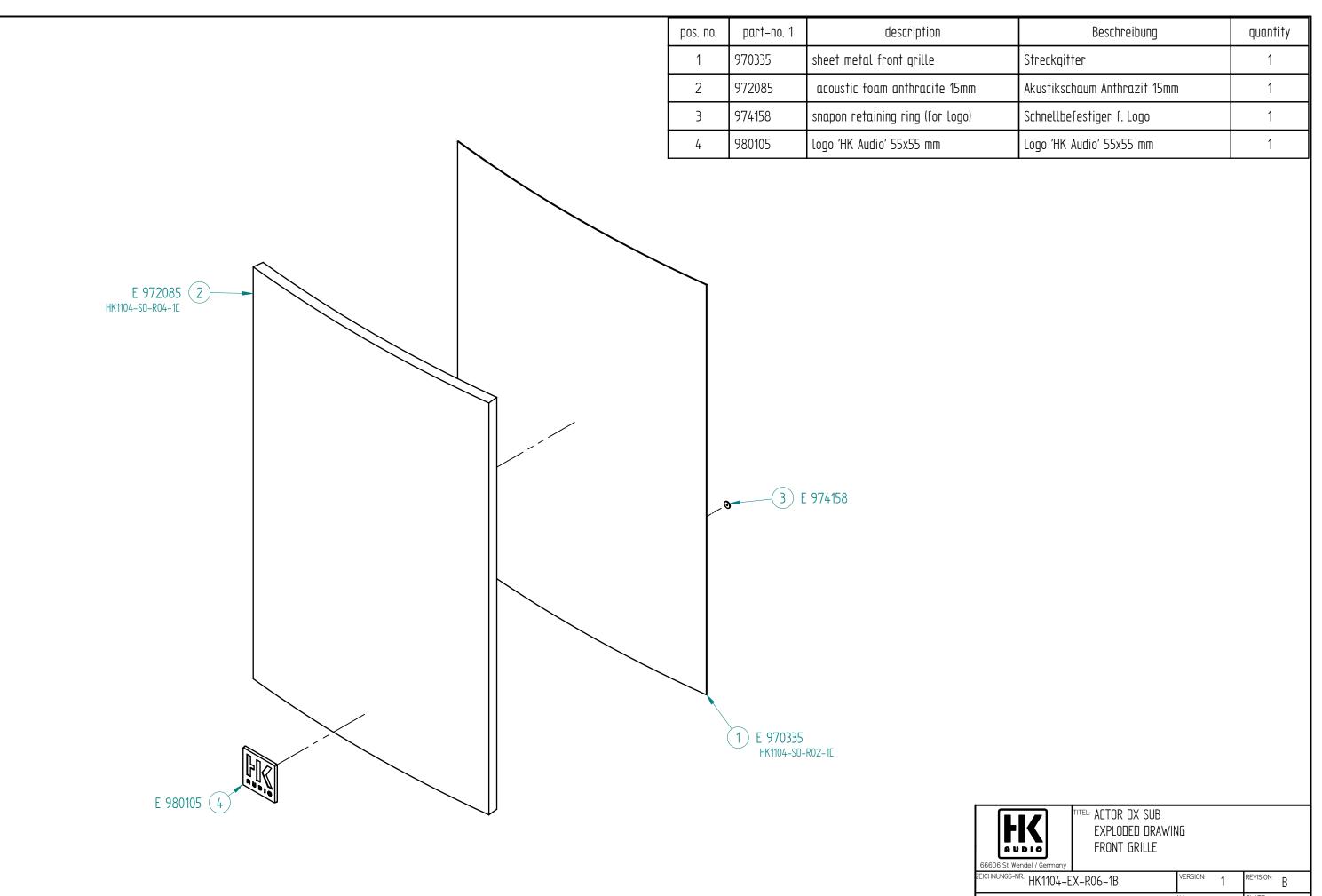
ZEICHNUNGS-NR: HK11043-EX-R01-1B VERSION: 1 REVISION: B

ERSTELLT VON: C. LORIS

GEPRÜFT/
FREIGEGEBEN VON: 2 BLÄTTER

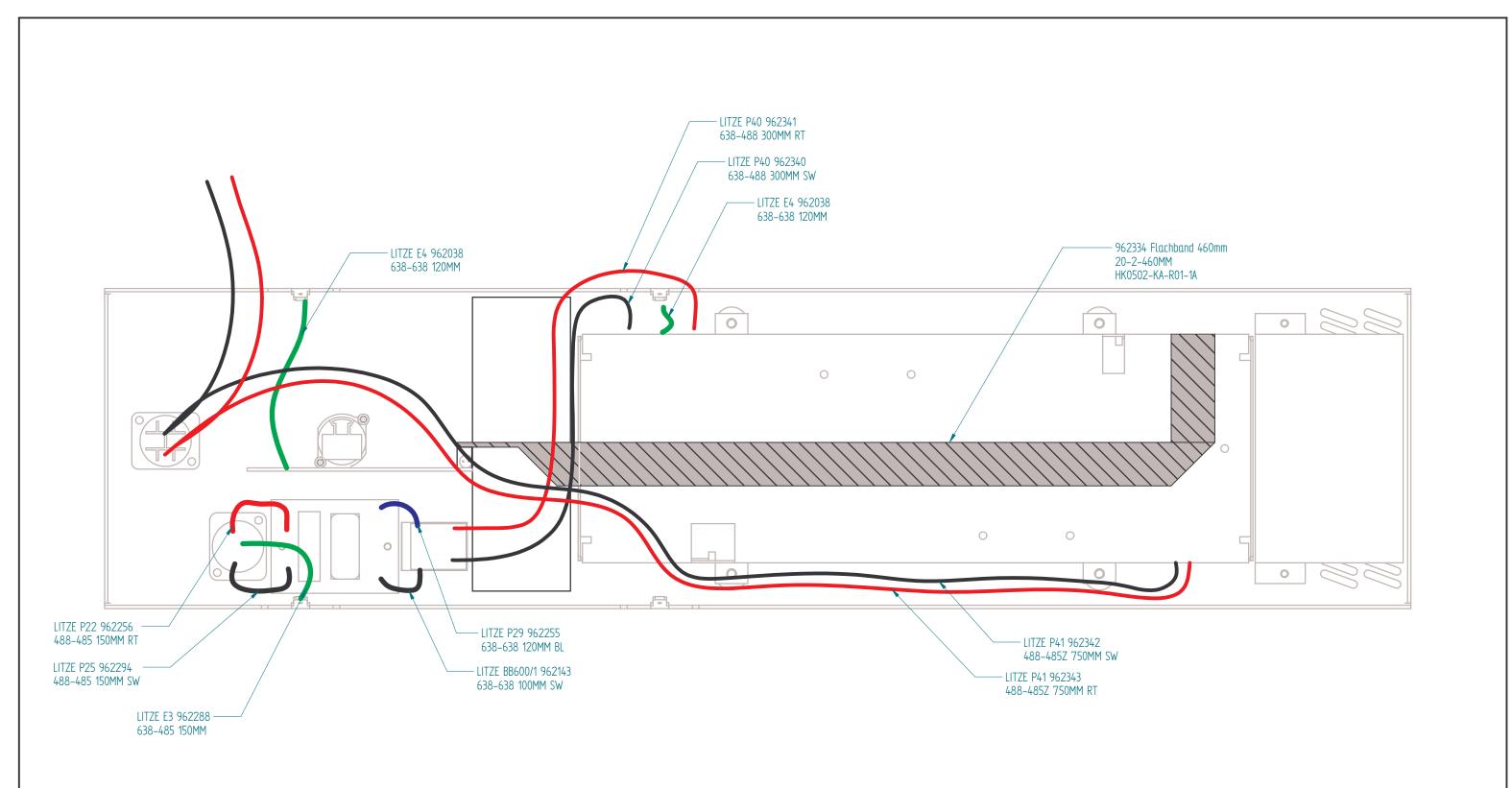
WERKSTOFF: OBERFLÄCHE:

DATEINAME: HK1104-EX-R01-1B-CHASSIS-BASS-P



INDEX	ÄNDERUNG		ZEICHNER
1B-210607	update for service manual	С.	Loris

ZEICHNUNGS-NR: HK1104-EX-R06-1B	VERSION: 1	REVISION: B
erstellt von: C. LORIS	^{AM:} 21.06.07	BLATT: 1/1
GEPRÜFT/ FREIGEGEBEN VON:	AM:	BLÄTTER
WERKSTOFF:	OBERFLÄCHE:	
DATEINAME: HK1104-EX-R06-1B-FRONT	GITTER-BASS	



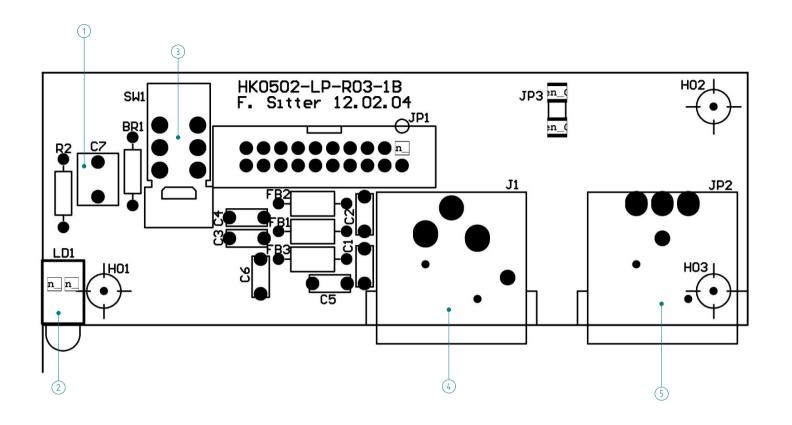
INDEX	ÄNDERUNG	ZEICHNER
IB Erdungslitzen korrigiert		M.Bohlender



HK1104 – A.C.T.O.R. DX Verkabelungsplan BASS AKTIV

ZEICHNUNGS-NR:	HK1104-GK-R02-1B	version: 1	REVISION: B
ERSTELLT VON:	Michael Bohlender	^{AM:} 10.05.2005	BLATT: 1
GEPRÜFT/ FREIGEGEBEN VON:	Michael Bohlender	^{AM:} 10.05.2005	1 BLÄTTER
WERKSTOFF:		OBERFLÄCHE:	

NAME: HK1104-GK-R02-1B-VerkabelungBASSaktiv



Pos	Part No.	Designators	Description	Bezeichnung	Specification	Supplier / Model	Quantity
1	918029	(C7)	MKT capacitor 5%, RM5	MKT Kondensator 5%, RM5	C=47nF,Vdc=250V, Tol=5%, MKT, RM5	BC: 2222 370 36473	0 (1)
2	936034	LD1	LED, 5mm, Standart, red, in 90°socket	LED, 5mm, Standart, rot, in 90 Fassung	LED, 5mm, Standart, rot, in 90 °Fassung, If=20mA, Viewing Angle 60 $^{\circ}$	Kingbright: L-1503CB/1ID	1
3	950001	(SW1)	push switch 2*UM G2UEE	Druckknopf 2*UM G2UEE	Druckschalter 2*UM G2UEE	ITT Cannon	0 (1)
4	952284	J1	XLR jack print 90°, Neutrik	XLR Buchse weiblich print 90°, Neutrik	XLR-Bu. 3pol female Wprn B-Serie	Neutrik: NC3FBH2	1
5	952285	(JP2)	XLR jack male print 90°	XLR Buchse männlich print 90°	XLR-Bu. 3pol male Wprn B-Serie	Neutrik: NC3MBH	0 (1)

INDEX	CHANGES	RESP.

66606 St. Wendel / Germany		- A.L.I.U.R. UX DARD AKTIVBASS	S (SUB1)
DRAWING-NO: HK1104_	LP_R02_1A	version: 1	REVISION: A
	Bohlender	DATE: 09.07.200	7 PAGE: 1
CHECKED BY:		DATE:	PAGES
MATERIAL: Fehler: Kei	ne Referenz	FINISH:	
FILENAME: HK1104_	LP_R02_1A_in	putboard	

