

ALLEN & HEATH®

TECHNICAL BULLETIN

SUBJECT: FILTER 2 - Intermittent loss of audio output
MODEL(S): XONE:92/X 619578 — X92/X 619777
DATE: June 2016
DOCUMENT: TB1604

Dear Partner,

We have become aware of an issue with XONE: 92 that we would like to bring to your attention following distributor reports describing loss of audio output signal, when stereo input channels are routed via FILTER 2.

The symptom appears as an intermittent issue after approximately 90-120 minutes of operation, reported as partial, or complete loss of FILTER 2 function.

Reports indicate this issue affects a batch of products with serial numbers in the range:

X92/X 619578 - X92/X 619777

The cause has been identified as component tolerance of transistor [Q4] in the VCF control circuit and a permanent solution is to change the value of three resistors on each FILTER PCB [AG8626_3].

As a precaution we recommend changing both FILTER1 and FILTER2.

The modification detailed below is advised for all units reported to exhibit symptoms or, at your discretion, on units within this serial number range.

If you receive a report of other units affected by the same symptom, please report this to Allen & Heath Product Support: <http://support.allen-heath.com>

NOTES:

Work to be carried out by a competent, qualified engineer.
Risk of electric shock. Switch mode PSUs may present up to 400VDC.
Allen & Heath cannot be held responsible for the actions of third party engineers.
The factory supported warranty may be invalidated if work is carried out by non-authorized persons.

For further information contact Allen & Heath Product Support at:
<http://support.allen-heath.com>

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The following modification is advised for all units reported to exhibit the symptoms described above or, at your discretion, on units within serial number range:
X92/X 619578 - X92/X 619777

Required Components

Description	Quantity	A&H Part Number
RES SMD 1K2 1% 0805	6	AC3059

We can provide these free of charge on request.
Please contact Allen & Heath Product Support to order: <http://support.allen-heath.com>

Required Tools



REF: RECN3583

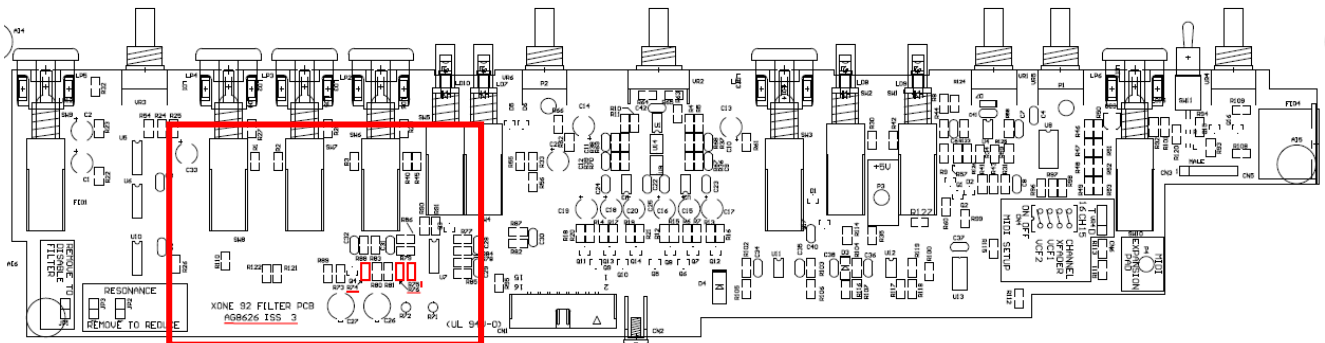
Modification should be implemented for the following PCBAs:
FILTER 2: [AG8626_3] - 004-544 PCB ASSY XONE:92 FILTER 2 V3
FILTER 1: [AG8626_3] - 004-543 PCB ASSY XONE:92 FILTER 1 V2

CHANGE value of Resistors: **R74, R75, R76** from 4K7 to **1K2**

De-solder and remove three (3) of: 4K7 [AC3062] - RES SMD 4K7 1% 0805
FIT, three (3) of: 1K2 [AC3059] - RES SMD 1K2 1% 0805

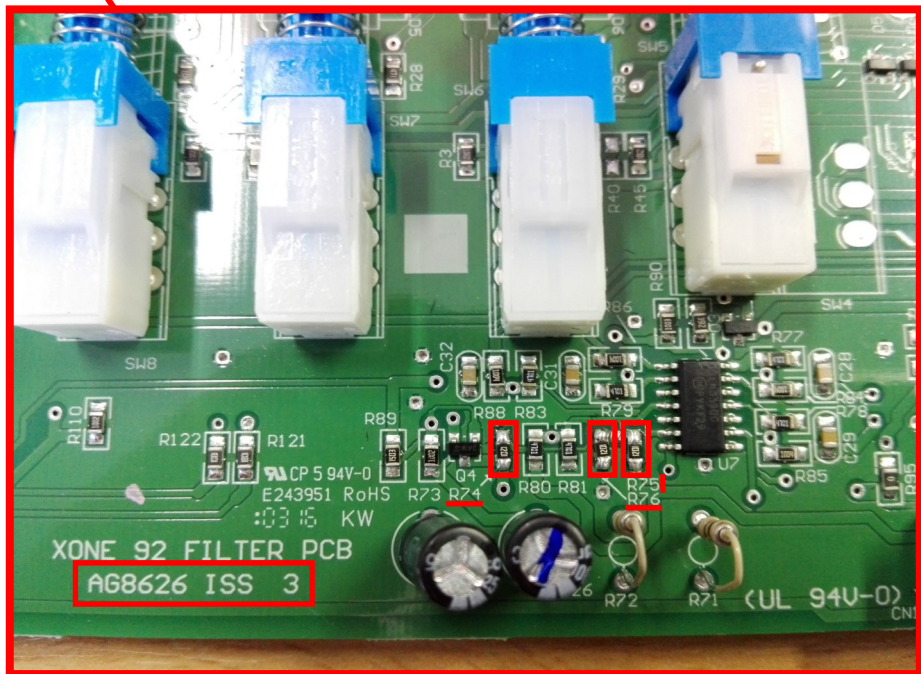
Please refer to p3 for details of component placement and PCBA/schematic change

Modification should be implemented for PCBAs:
 FILTER 2: [AG8626_3] - 004-544 PCB ASSY XONE:92 FILTER 2 V3
 FILTER 1: [AG8626_3] - 004-543 PCB ASSY XONE:92 FILTER 1 V2
CHANGE value of Resistors: R74, R75, R76 from 4K7 to 1K2



AG8626_3 Xone 92 Filter PCB Overlay (PCBA 004-544 illustrated)

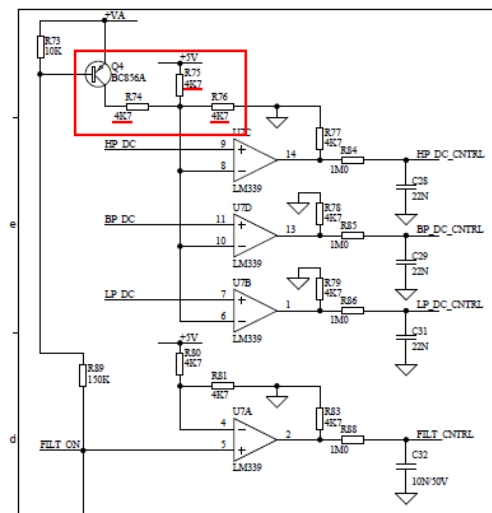
Change on PCBA



Section of AG8626_3 Xone 92 Filter PCB (PCBA 004-543 illustrated)

Change in circuit

Section from:
 AG8626_3 Xone 92 Filter PCB
 DRG No. C8626 issue:3
 SHEET: 3 OF 4



http://www.allen-heath.com/media/AG8626_3-X92-Filter-Midi.pdf