

ALLEN&HEATH

SERVICE MANUAL

GL2800M

GL2800M

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Allen & Heath Limited

Kernick Industrial Estate, Penryn, Cornwall, TR10 9LU, UK

<http://www.allen-heath.com>

Limited One Year Warranty

This product is warranted to be free from defects in materials or workmanship for period of one year from the date of purchase by the original owner. To ensure a high level of performance and reliability for which this equipment has been designed and manufactured, read this User Guide before operating. In the event of a failure, notify and return the defective unit to ALLEN & HEATH Limited or its authorised agent as soon as possible for repair under warranty subject to the following conditions

Conditions of Warranty

The equipment has been installed and operated in accordance with the instructions in this User Guide. The equipment has not been subject to misuse either intended or accidental, neglect, or alteration other than as described in the User Guide or Service Manual, or approved by ALLEN & HEATH. Any necessary adjustment, alteration or repair has been carried out by ALLEN & HEATH or its authorised agent. This warranty does not cover fader wear and tear. The defective unit is to be returned carriage prepaid to ALLEN & HEATH or its authorised agent with proof of purchase. Units returned should be packed to avoid transit damage. In certain territories the terms may vary. Check with your ALLEN & HEATH agent for any additional warranty which may apply.

For further assistance please contact our distributor or your territory.

<http://www.allen-heath.com/UK/distributors.asp>

Release notes for this issue

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DEVELOPMENT CHANGES

PARTS IDENTIFICATION

How to order parts

Parts must be ordered from our distributor in your territory. A list of international distributors can be viewed at <http://www.allen-heath.com/UK/distributors.asp>

UK parts must be ordered through an appointed A&H dealer or service centre. A list of UK service centres can be viewed at http://www.allen-heath.com/UK/service_centres.asp

EXTERIOR PARTS:

Push button square red AJ2961JIT

Knob red AJ2074AJIT

Knob green AJ2074AJIT

Knob grey AJ2078AJIT

Knob black AJ6106AJIT

Knob brown AJ2080AJIT

Knob light blue AJ2075AJIT

Knob dark blue AJ2075AJIT

Knob yellow AJ2079AJIT

Push button square white AJ2960JIT

16 MIX WEDGE / 8EM MONITOR CONSOLE

Push button square grey AJ2864JIT

Push button rect black AJ3228JIT

Push button rect grey AJ2865JIT

Push button rect white AJ2962JIT

Push button round black AJ4251JIT

Fader screw AB2811JIT

Fader knob black AJ3503JIT

Fader knob light blue AJ8081JIT

Fader knob dark blue AJ6237JIT

Fader knob grey AJ6278JIT

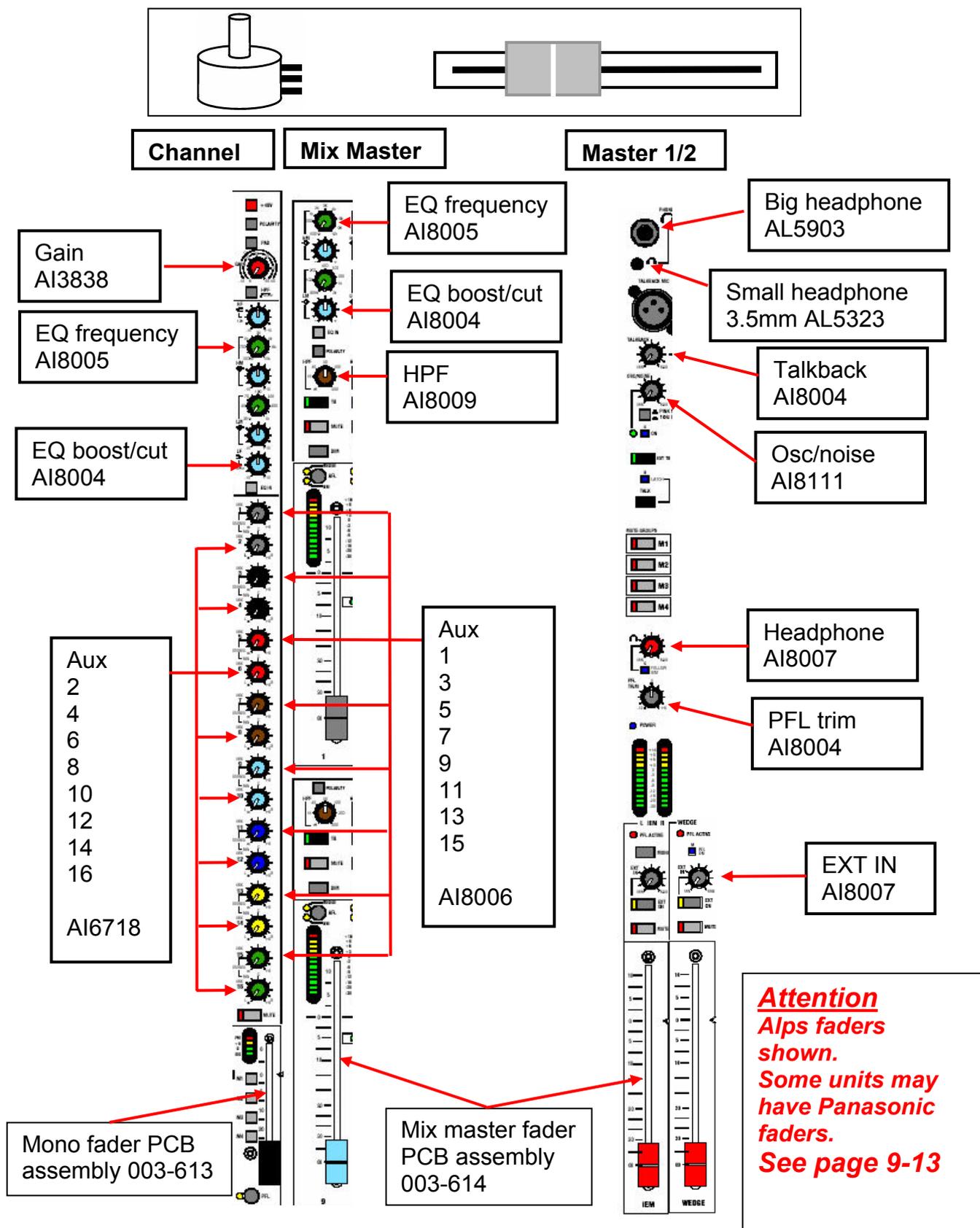
Fader knob red AJ8079JIT

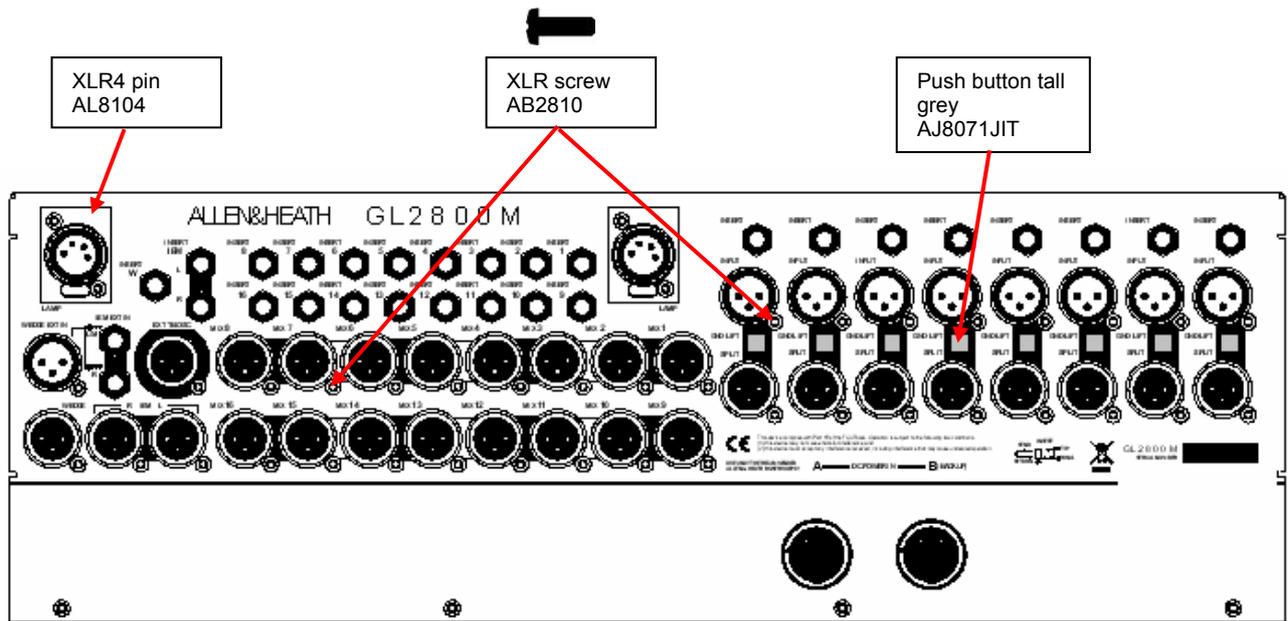
Fader knob brown AJ6692JIT

Fader knob green AJ6691JIT

Fader knob yellow AJ8080JIT

POTENTIOMETERS & FADERS





Ident strip 17-24
AK6474JIT

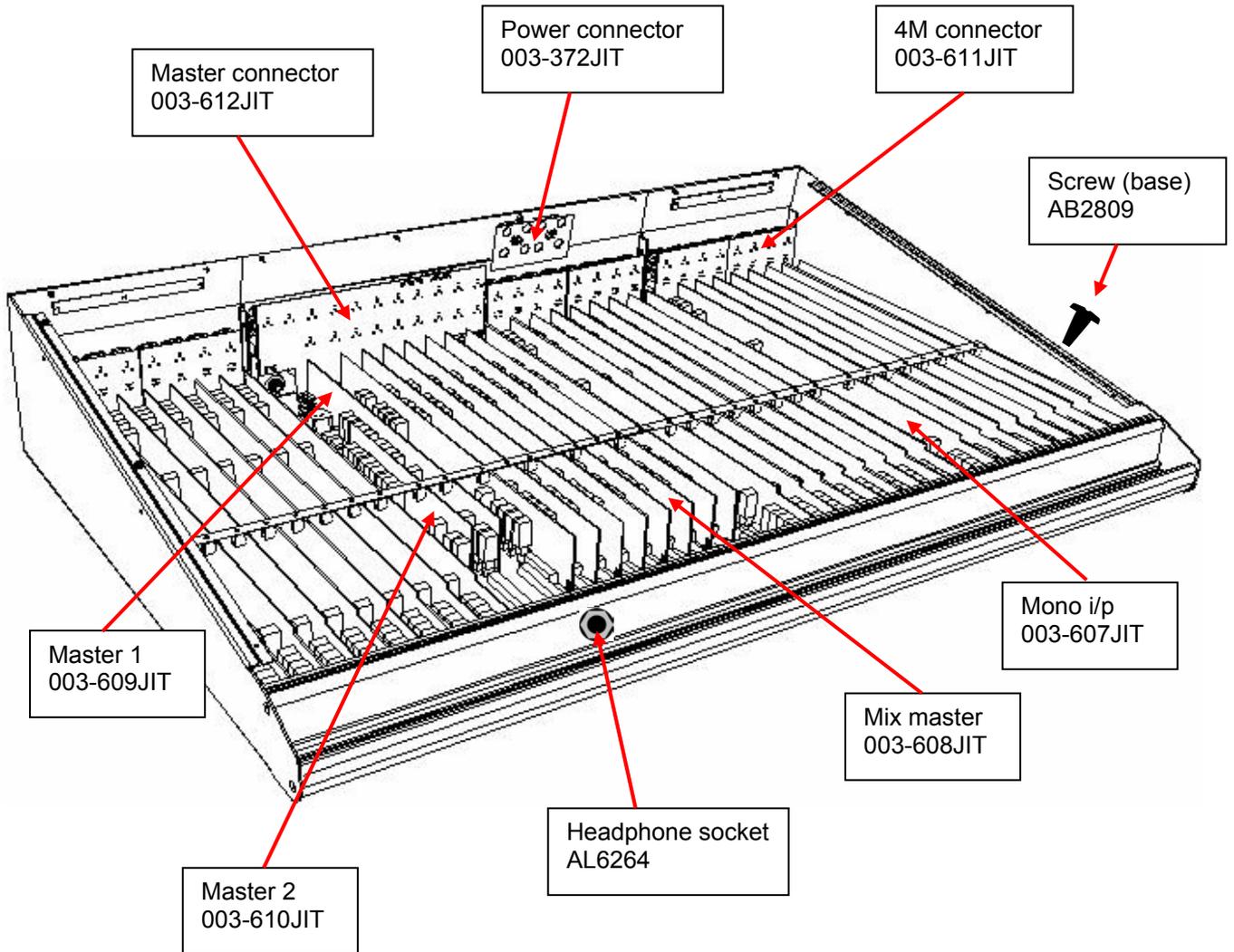
Ident strip 9-16
AK6473JIT

Ident strip 1-8
AK6472JIT

8	7	6	5	4	3	2	1
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Feet
AK0102JIT

INTERIOR PARTS:



IDENTIFY PANASONIC FADERS / ALPS FADERS BY MIXER SERIAL NUMBER

List of mixer serial numbers using Panasonic Faders on Mix Masters to date 15109106:

L28MON24002847
L28MON32002932
L28MON32002934
L28MON32002935
L28MON32002936
L28MON40002944
L28MON40002945
L28MON24002949
L28MON24002950
L28MON40002951
L28MON40002952
L28MON48002983
L28MON32002985
L28MON24003012
L28MON24003013
L28MON24003014
L28MON24003015
L28MON32003017
L28MON32003019
L28MON40003026
L28MON40003027
L28MON40003028
L28MON40003031

List of mixer serial numbers using Panasonic Faders on Mix Masters to date 5110106:

L28MON24002847
L28MON32002932
L28MON32002934
L28MON32002935
L28MON32002936
L28MON40002944
L28MON40002945
L28MON24002949
L28MON24002950
L28MON24003012
L28MON24003013
L28MON24003014
L28MON24003015
L28MON3200298s
L28MON32003017
L28MON32003019
L28MON32003055
L28MON32003063
L28MON32003064
L28MON320031 13
L28MON40002951
L28MON40002952
L28MON48002983
L28MON40003026
L28MON40003027
L28MON40003028
L28MON40003029
L28MON40003031
L28MON40003048
L28MON40003052
L28MON40003055
L28MON400031 19

GL2800Ms with Panasonic faders on whole mixer.

L28MON40003144
L28MON32003132
L28MON40003149
L28MON40003146
L28MON48003161
L28MON32003134
L28MON40003145
L28MON40003142
L28MON32003128
L28MON48003206
L28MON48003207
L28MON48003209
L28MON40003152
L28MON32003191

SPECIFICATION:

Performance

Maximum XLR input level +34dBu (inc pad)
Maximum XLR output level +26dBu
Internal headroom Channels +20dB, Mix +22dB
Master meters 12 segment -30 to +16dB, 0VU= +4dBu XLR
Channel meters 4 segment -12,0,+6+16dB (5dB before clip)
Frequency response 20Hz to 50kHz +/-1dB
Mic CMRR at 1kHz > 80dB typical
THD+n at +14dBu 1kHz Mic to mix out < 0.003%
Crosstalk at 1kHz Fader shutoff >90dB
Mute shutoff >88dB
Inter channel >90dB
Noise, rms 22Hz to 22kHz Mic EIN -128dB
Residual output noise < -96dBu (-100dB S/N)
Mix noise 24 channels < -80dBu (-84dB S/N)
Channel HPF Switched 100Hz, 12dB/octave
Output HPF Swept off to 400Hz, 12dB/octave
Channel EQ HF Shelving +/-15dB, 12kHz
HM Peak/dip +/-15dB, 500Hz to 15kHz, Q=1.8
LM Peak/dip +/-15dB, 35Hz to 1kHz, Q=1.8
LF Shelving +/-15dB, 80Hz
Mix 1-8 EQ HM Peak/dip +/-15dB, 500Hz to 12kHz, Q=1.6
LM Peak/dip +/-15dB, 80Hz to 2kHz, Q=1.6
Power supply External RPS11 IEC input
External Input for optional RPS11 backup supply

Connections

Channel XLR balanced pin 2 hot Sensitivity -60 to +14dBu
Total gain range 74dB
20dB Pad out 2k ohm, in >10k ohm
Wedge Ext in XLR balanced pin 2 hot >10k ohm, 0dBu, +20dBu max
IEM Ext in TRS unbalanced >10k ohm, 0dBu, +20dBu max
Talkback mic XLR balanced pin 2 hot Sensitivity -50 to -10dBu
Phantom power Internal jumper +48V (fitted)
Inserts Channel TRS, tip send, ring return, 0dBu
Output TRS, tip send, ring return, -2dBu
Mix 1-16 out XLR balanced pin 2 hot <75 ohm, +4dBu, +26dBu max
IEM/Wedge out XLR balanced pin 2 hot <75 ohm, +4dBu, +26dBu max
Talkback/Osc out XLR balanced pin 2 hot <75 ohm, +4dBu, =26dBu max
Headphones TRS, tip L, ring R, 30 to 600 ohm headphones recommended
Lamp 4-pin XLR max 12V 5W lamp

