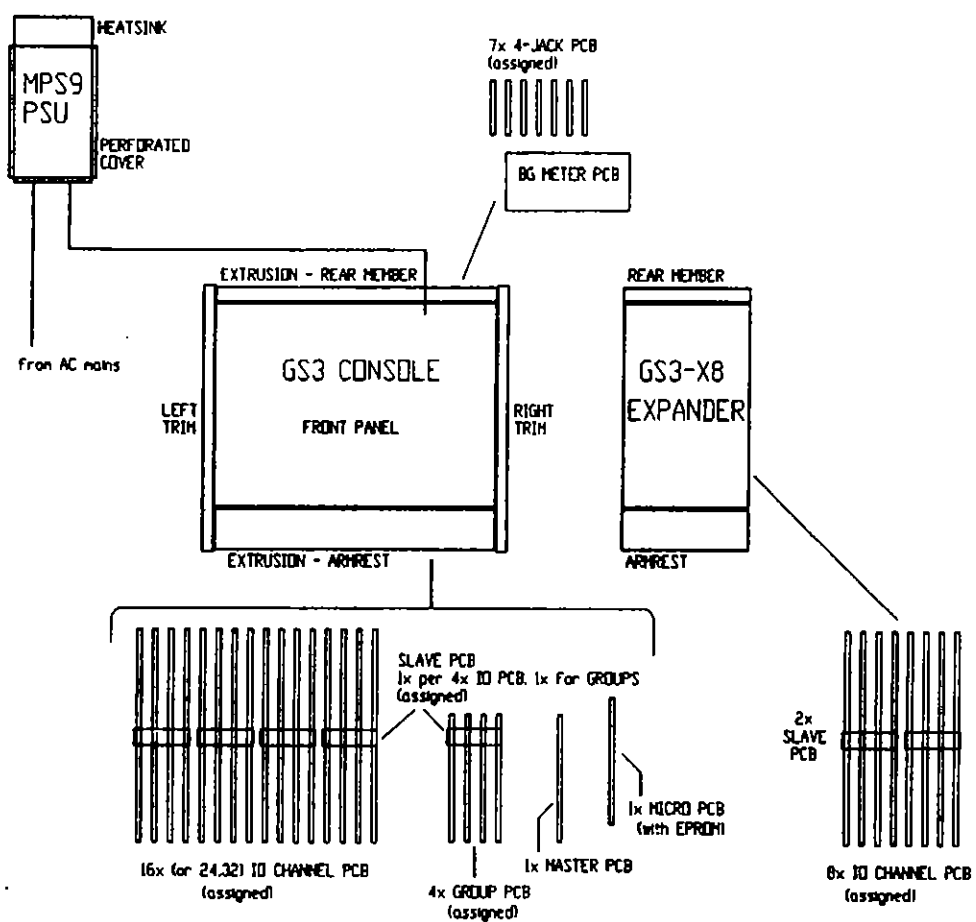
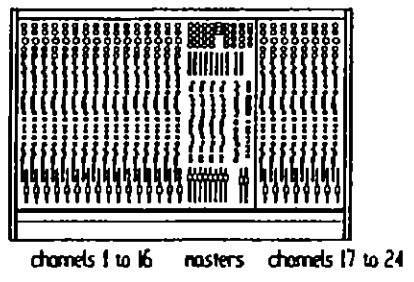


This section provides information for identifying and ordering spare or replacement parts for the GS3 and GS3V range of consoles. The diagram below shows the major assemblies. Refer also the **PARTS STRUCTURE** and **INTERNAL LAYOUT** drawings in **PART C** of this manual.

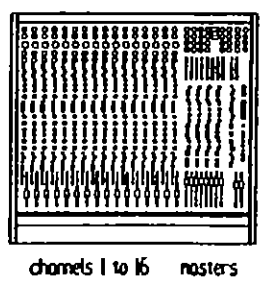
Please quote the console model and serial numbers when ordering parts.



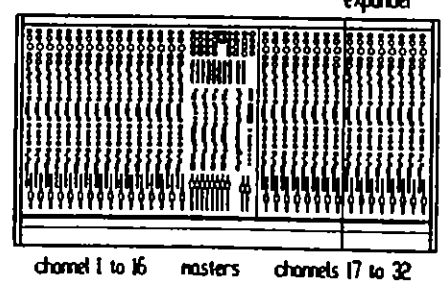
GS3-24



GS3-16



GS3-24+X8
expander



ORDERING A CONSOLE: To order a new console, please specify the model number and AC mains input voltage required for the MPS9 power supply unit.

MODEL	DESCRIPTION	ORDER CODE
GS3-16	16 I/O channel console + MPS9 (volts?)	ZZ-S3-001
GS3-24	24 I/O channel console + MPS9 (volts?)	ZZ-S3-002
GS3-X8	8 I/O channel expander kit	ZZ-S3-003
GS3V-16	16 I/O channel console + MPS9 (volts?)	ZZ-S3V-001
GS3V-24	24 I/O channel console + MPS9 (volts?)	ZZ-S3V-002
GS3V-X8	8 I/O channel expander kit	ZZ-S3V-003

REPLACEMENT POWER SUPPLY UNIT

MODEL	DESCRIPTION	ORDER CODE
MPS9	Power supply unit (specify 220V or 240V)	ZS700-711
MPS9	Power supply unit (specify 100V or 110V or 120V)	ZS700-712
RPS5	Power supply unit (specify 110V or 120V)	ZX400-606
RPS5	Power supply unit (220V)	ZX400-605
RPS5	Power supply unit (240V)	ZX400-608

ORDERING AN ASSEMBLY: The following assemblies are supplied fully tested. Please note that several of these need to be assigned according to their intended position in the console. This is done by soldering wire links or assignment pads. Please refer to the relevant diagrams in PART C of this manual for details. It is best to check the assignment settings of the assembly you are replacing before removing it from the console.

GS3(V) denotes assemblies, options and components compatible with all models in the GS3 range.

DESCRIPTION	ORDER CODE
GS3-16 V5 VCA automation Upgrade kit	ZZ-S3UP-001
GS3-24 V5 VCA automation Upgrade kit	ZZ-S3UP-002
GS3-32 V5 VCA automation Upgrade kit	ZZ-S3UP-003
GS3-X8 V5 VCA automation Upgrade kit	ZZ-S3UP-004
GS3(V) Balanced Multitrack Option	ZZ-S3-MB8
GS3V SMPTE Module Option	ZX000-708

PRINTED CIRCUIT (PCB) ASSEMBLIES:

* specify GS3, GS3 V5 Upgrade or GS3V when ordering spare or replacement assemblies.

MODEL	DESCRIPTION	ORDER CODE
GS3	I/O PCB assembly	(assign)ZX000-705*
GS3(V)	Group PCB assembly	(assign)ZX000-706
GS3(V)	Slave PCB assembly	(assign)ZX000-106
GS3	Master PCB assembly	ZX000-103*
GS3(V)	4 Jack Connector PCB assembly	(assign)ZX000-007

GS3	Micro PCB assembly	ZX000-105
GS3(V)	Baragraph Meter PCB assembly	ZX000-104
GS3V	V-Micro assembly (includes V-PROM assembly)	ZX000-707
GS3V	Keyboard PCB assembly	ZX000-228
GS3V	Channel VCA PCB assembly	(assign) ZX000-226
GS3V	VCA Slave PCB assembly	(assign) ZX000-222
GS3	V5 Upgrade V-Micro assembly (with V-PROM assembly)	ZX000-246
GS3	V5 Upgrade Keyboard PCB assembly	ZX000-240
GS3	V5 Upgrade Channel VCA PCB assembly	(assign) ZX000-242
GS3	V5 Upgrade VCA Slave PCB assembly	(assign) ZX000-241
GS3V	SMPTE PCB assembly (also V5 Upgrade)	ZX000-238
GS3(V)	Balanced Multitrack Option PCB assembly	ZX000-709
MPS9	Power Supply PCB assembly	ZS700-012

RIBBON HARNESS ASSEMBLIES:

MODEL	DESCRIPTION	ORDER CODE
GS3(V)	C16 40-way Main Harness	ZX000-112
GS3	C16 16-way Slave Harness	ZX000-113
GS3(V)	C24 40-way Main Harness	ZX000-114
GS3	C24 CH1-16 16-way Slave Harness	ZX000-113
GS3(V)	C24 CH17-24 16-way Slave Harness	ZX000-118
GS3(V)	X8 40-way Main Harness	ZX000-117
GS3(V)	X8 16-way Slave Harness	ZX000-118
GS3V	C16 16-way Slave Harness (including V5 Upgrade)	ZX000-236
GS3V	C24 CH1-16 16-way Slave Harness (inc. V5 Upgrade)	ZX000-236
GS3V	C16 VCA Slave Harness (including V5 Upgrade)	ZX000-223
GS3V	X8 VCA Slave Harness (including V5 Upgrade)	ZX000-224
GS3V	C24 CH1-16 VCA Slave Harness (including V5 Upgrade)	ZX000-223
GS3V	C24 CH17-24 VCA Slave Harness (including V5 Upgrade)	ZX000-224

THE CHASSIS TRIM:

MODEL	DESCRIPTION	ORDER CODE
GS3(V)	Left and right side trims	AA1132L/R
GS3(V)	C16 Chassis extrusion (armrest/rear)	AA1133
GS3(V)	C24 Chassis extrusion (armrest/rear)	AA1134
GS3(V)	X8 Chassis extrusion (armrest/rear)	AA1143

MANUALS AND SUPPORT DOCUMENTATION:

GS3	Owners Manual	AP0122A
GS3V	Owners Manual	AP0172
GS3V	Automation Systems Manual	AP0140
GS3(V)	Service Manual (includes Options)	AP0123
GS3(V)	Hi Level Multitrack Option sheet	AP0134
GS3-X8	Expander fitting sheet	AP0135
GS3V-X8	Expander fitting sheet	AP0143
GS3V	SMPTE Option User Manual	AP0141
GS3	V5 Upgrade Installation Manual	AP0189
GS3	V5 Upgrade User Manual	AP0188
GS3(V)	Balanced Option fitting instructions	AP0206

SOFTWARE UPGRADE: There are two types of software fitted depending on the type of console:

Standard GS3 - V4 *plus* Mute Automation software

GS3V & GS3 V5 Upgrade - V5 Automation software.

To order a replacement EPROM please contact ALLEN & HEATH and notify us of your console serial number, its present EPROM version and code number, and reason for the replacement.

SERVICE TOOLS: The tools required to service the GS3 range of consoles are standard to an electronics service workshop and are easily obtainable. The following items are necessary for full disassembly and service access:

4mm Hexagon (Allen) key (M6 side trim)	AT0033
1-point Crosshead screwdriver (M3, 4AB)	AT0004
2-point Crosshead screwdriver (M4, 6AB)	AT0002
10mm Nutdriver (small pot nuts)	AT0003
11mm Nutdriver (large pot nuts)	AT0023
15mm Nutdriver (jack nuts)	

ORDERING A STANDARD SPARES KIT - (A)

Order code: **ZX000-120**

It is recommended that this kit of parts is held and maintained by the service agent to enable in-field service repairs to this range of consoles by component replacement independent of the ALLEN & HEATH factory. This component kit is supplied in a cabinet of drawers. Commonly available items such as resistors, capacitors, tools and soldering equipment are not included.

Individual spare parts from the following list may be ordered. Please quote the description and order code for the part required.

ORDERING A GS3 TOP-UP SPARES KIT - (B)

Order code: **ZX000-121**

If you are a service agent who already stocks spare parts for the ALLEN & HEATH SABER range of consoles, you may already stock some of the common parts used on the GS3 range. The TOP-UP kit provides just the parts unique to this range.

Below is a list of the components supplied with each kit.

(A) - STANDARD SPARES KIT (ZX000-120)

(B) - GS3 TOP-UP SPARES KIT (ZX000-121)

DESCRIPTION	ORDER CODE	(A) QTY	(B) QTY
Fader parts:			
Fader - Alps 100mm travel, 10k ohm log	AI0144	5	5
Fader knob - 11mm wide, white	AJ0384	5	5
Fader screw - M3 x 6mm PAN	AB0073	10	10
Fader spacer - M3 clearance x 3mm	AB0254	10	10

DESCRIPTION	ORDER CODE	A QTY	B QTY
Fixings:			
Cable tie - 150 x 2.5mm (SLAVE fixing)	AK0332	20	20
Countersunk M6 HEX bolt (SIDE TRIMS)	AB0310	5	5
Pan 6AB screw (base fixing)	AB0170	10	-
Countersunk 4AB screw (panel fixing)	AB0059	10	-
Pan 4AB screw (PCB fixing)	AB0057	10	-
Pan M4 taptite screw (expander fixing)	AB0271	10	-
M6 joining stud (expander fixing)	AB0325	-	-
Joint block - nylon A138 (PCB fixing)	AB0253	5	-
Rotary knobs and caps:			
Rotary knob - small (dual top) grey	AJ0058	10	-
Rotary knob - large (dual bottom) grey	AJ0059	10	10
Cap - C111 Red + white line	AJ0063	10	-
Cap - C111 Brown + white line	AJ0065	10	10
Cap - C111 Blue + white line	AJ0066	10	-
Cap - C111 Grey + black line	AJ0064	10	-
Cap - C111 Green + white line	AJ0061	10	-
Buttons:			
Square Red 12.5mm (mute keypad)	AJ0300	5	-
Rectangular Grey 10x5mm	AJ0093	5	-
Rectangular White 10x5mm	AJ0094	5	-
Rectangular Red 10x5mm	AJ0095	5	-
Square Grey 5mm (routing)	AJ0363	5	5
Square White 5mm (L-R)	AJ0373	5	5
Square Red 5mm (+48V switch)	AJ0364	5	5
Potentiometers:			
10kC+10kA AHB-11 (Channel GAIN)	AI0061	2	2
10kBcc AHB-1 (PAN)	AI0051	2	-
100kCx2+10kBcc AHB-10 (Channel MF & LF)	AI0060	2	2
100kBcc AHB-2 (Channel HF, Monitor HF & LF)	AI0052	2	-
100kAx2 dual AHB-6 (FX SENDS)	AI0056	2	-
100kA AHB-4 (Chan, Mon CUE, FX MASTER)	AI0054	2	-
10kAx2 AHB-18 (RETURN GAIN)	AI0119	2	-
100kAx2 AHB-5 (STEREO RTN LEVEL & CUE, CUE MASTER, STEREO CUE LEV, C/room LEVEL)	AI0055	2	-
100kBccx2 AHB-12 (Return HF & LF)	AI0118	2	-
10kBcc+100kA dual AHB-8 (Mon lev/pan)	AI0058	2	2
10kA AHB-16 (Osc, Talkback)	AI0131	2	-
Switches:			
2PCO momentary (MUTE)	AL0374	5	-
2PCO latching (general)	AL0162	5	-
Connectors:			
Jack socket stereo switched	AL0009	5	-
3-pin XLR Female 90deg PC(MIC)	AL0502	2	-
5-pin DIN 180deg female (MIDI)	AL0095	2	-
5-pin XLR chassis male (DC INPUT)	AL0017	-	-
LEDs:			
T1 round - Red	AE0086	5	-
T1 round - Yellow	AE0084	5	-
4 segment bar - Green	AE0303	2	2

DESCRIPTION	ORDER CODE	A QTY	B QTY
4 segment bar - Red	AE0304	2	2
2 segment bar - Green	AE0306	2	2
Integrated circuits:			
TL072P Dual Operational Amplifier	AE0046	10	2
NE5532 Dual Operational Amplifier	AE0221	10	2
80C32 microprocessor	AE0312	-	-
6264 RAM memory	AE0224	-	-
4051B CMOS 8 channel Multiplexer	AE0118	2	-
4053B CMOS triple 2 Channel Multiplexer	AE0117	-	-
4099B CMOS 8 bit Addressable Latch	AE0238	2	-
74LS05N TTL Hex Inverter O/C	AE0093	-	-
74LS138N TTL 3 to 8 Decoder	AE0248	-	-
74LS373N TTL Octal Latch	AE0140	-	-
LM339 Quad comparator (BG meter)	AE0071	2	1
6N136 Opto isolator (MIDI)	AE0222	1	-
4N35 Opto isolator (footswitch)	AE0266	1	1
7805 5V regulator	AE0308	1	-
SSM2142P Balanced Output Driver	AE0302	1	1
Transistors:			
BC549 NPN general purpose	AE0020	10	10
BC214C PNP	AE0031	10	2
J111 FET (MUTE element)	AE0083	5	-
2N4403 PNP low noise (MIC pre-amp)	AE0273	10	-
BC637 NPN (headphones)	AE0068	2	-
BC638 PNP (headphone)	AE0037	2	-
Battery NiCad 3.6V 100mA/hr	AP0019	1	-

MPS9 POWER SUPPLY

Mains fuse 1 Amp T 20x5mm (UK, EUROPE)	AL0305	5	-
Mains fuse 3 Amp T 1 1/4" (USA, JAPAN)	AL0315	5	-
Fuse insert 20x5mm (UK, EUROPE)	AL0314	1	-
Fuse insert 1 1/4" (USA, JAPAN)	AL0313	1	-
Fuse holder (universal)	AL0312	-	-
Torroidal transformer A117	AM0023	-	-
Bridge rectifier 3 Amp	AE0206	1	-
IC regulator +15V 7815	AE0047	2	-
IC regulator -15V 7915	AE0048	2	-
IC regulator +48V 783	AE0214	1	-
IC insulating kit (washer+bush)	AA0693	5	-
5-pin XLR female inline	AL0049	-	-
MPS9 Label write-on	AN0204	-	-
4AB Pan screw (cover to chassis)	AB0057	-	-
M3 Pan Taptite screw (cover to h/sink)	AB0071	5	-

SERVICE TOOLS

4mm HEX (Allen) key	AT0033	1	1
1-point crosshead screwdriver	AT0004	1	-
2-point crosshead screwdriver	AT0002	1	-
Ring spanner 10mm	AT0003	1	-
Ring spanner 11mm	AT0023	1	-

ORDERING A GS3V TOP-UP SPARES KIT

Order code: **ZX000-227**

If you are a service agent who already stocks spare parts for the ALLEN & HEATH SABER and GS3 range of consoles, you may already stock some of the common parts used on the GS3V range. The GS3V TOP-UP kit provides just the parts special to this range.

DESCRIPTION	ORDER CODE	QTY
Integrated Circuits:		
SSM2018P Voltage Controlled Amplifier	AE0315	10
SSM2300P Octal Sample & Hold	AE0316	1
4066B Quad Switch	AE0116	1
Transistors:		
ZTX107B NPN (Sample & Hold Switch)	AE0019	1
LEDs:		
Triangular Green Hi Efficiency	AE0338	16
Fader Parts:		
Fader screw - M3 x 8mm Countersunk	AB0074	16
Fader spacer - M3 x 4.5mm	AB0331	16
Fixings:		
Plastic Rivets SR3055	AB0338	10
Pillar - M3 x 15mm (VCA Slave PCB)	AB0294	2
Pan Screw - M3 x 8mm	AB0073	4
Buttons:		
Square Black 12.5mm (Function Keys)	AJ0348	7
Battery NiCad 2.4V 100mA/hr	AP0158	1
Preset 500K Horizontal (Channel VCA PCB)	AC0362	10