

ORDERING AN ASSEMBLY

The following assemblies for the **ML5000** are supplied fully tested. Please quote the description and order code for the part required.

Printed circuit board (PCB) assemblies:

DESCRIPTION	ORDER CODE
Mono Input PCB assembly	002-529
Stereo Input PCB assembly	002-564
Group 1, 3, 5, 7 PCB assembly	002-552
Group PCB assembly	002-553
Group 2, 4, 6, 8 PCB assembly	002-554
Aux 10 PCB assembly	002-545
Aux 12 PCB assembly	002-546
Aux 14 PCB assembly	002-547
Aux 16 PCB assembly	002-548
Master Distribution PCB assembly	002-556
LCR Mix PCB assembly	002-544
Mono Fader PCB assembly	002-530
Master Fader Centre PCB assembly	002-589
Master Fader L/R PCB assembly	002-588
Master Fader VCA PCB assembly	002-557
Mute Group PCB assembly	002-563
Control Panel PCB assembly	002-549
Fader Slave PCB assembly	002-551
Stereo Slave PCB assembly	002-566
VCA Master Slave PCB assembly	002-567
Aux Master Slave PCB assembly	002-543
CPU PCB assembly	002-550
Mono Connector PCB assembly	002-560
Stereo LRC Connector PCB assembly	002-565
Master Connector PCB assembly	002-555
MIDI Power PCB assembly	002-575
Sidecar MIDI Power PCB assembly	002-598
SYS-LINK 2 In PCB assembly	002-587
SYS-LINK 2 Out PCB assembly	002-596
Meter 1-8 PCB assembly	002-558
Meter 9-16 PCB assembly	002-591
Meter Master PCB assembly	002-559
Meter Ledbar PCB assembly	002-590

IDC connector harnesses:

DESCRIPTION	ORDER CODE
10 way GRAUX harness	AL4029
10 way Input harness	AL4028
10 way LRC to Fader harness	AL4077
10 way MIDI harness	AL4032
16 way GRAUX harness	AL4030
20 way Master Connector harness	AL4027
20 way Meter harness	AL4021
26 way CPU Power harness	AL4033
26 way LRC Connector harness	AL4031
26 way Distribution harness	AL4020
26 way Slave A harness	AL4022
26 way Slave B harness	AL4023
26 way Slave C harness	AL4024
26 way Slave D harness	AL4025
34 way Master harness	AL4026
Sidecar harness	AL4067
ML5-32 Left harness	AL3964
ML5-32/40 Right harness	AL3967
ML5-40/48 Left harness	AL3834
ML5-48 Right harness	AL3835

THE CHASSIS TRIM

DESCRIPTION	ORDER CODE
ML5000 (all formats) Left & Right Chassis side trims	AA3773-L/R
Left & Right Moulded side trims	AA3781-L/R
Write-on strip 10'	AK0327
Ident strip Master Rear	AK3788
Ident strip Master	AK3833
Ident strip 1-24	AK3789
Ident strip 1-24 Rear	AK3790
Ident strip 25-48	AK3795
Ident strip 25-48 Rear	AK3796

ORDERING AN ML5000 SPARES KIT

It is recommended that the spares kit order code **002-533** is held and maintained by the service agent to enable in-field service repairs to the **ML5000** independent of the ALLEN & HEATH factory. Commonly available items such as resistors, capacitors, tools and soldering equipment are not included. The contents of the kit are listed below and are supplied in a cabinet of drawers. Individual spare parts may be ordered. Please quote the description and order code for the part required.

Fixings:

DESCRIPTION	ORDER CODE	QTY
Screw 4AB x 5/16" CSK Pozi Black	AB0059	20
Screw M3 x 8 CSK Pozi Black	AB0074	10
Nylock Nut M3	AB0102	10
Nylock Nut M4	AB0105	10
Screw 4AB x 1/2" Pan Pozi Black	AB0250	10
Screw M6 x 20 CSK Allen Black	AB0310	5
Screw 6B x 3/8 CSK Pozi Zinc	AB2082	20
Screw 8B x 3/8 CSK Pozi Black	AB2085	5
Screw 6B x 5/16 Pan Pozi Black	AB2809	20
Screw 4 x 5/16 Poly Pan Pozi Black	AB2810	20
Screw M3 x 5 CSK Pozi Black	AB2811	20
Screw M3 x 4 TT Hex Head Black	AB3837	20
Screw M6 x 10 CSK Pozi Zinc	AB4036	5
Screw 6B x 3/8 Flange Headed Pozi Black	AB4037	10
Rivet Plastic Snap SR3535B	AB4092	5
Pot Nut 9mm	AB8050	50

Knobs and caps:

DESCRIPTION	ORDER CODE	QTY
Knob Red & Grey 11mm D	AJ2074	10
Knob Blue & Grey 11mm D	AJ2075	40
Knob Light Blue & Grey 11mm D	AJ2076	40
Knob Green & Grey 11mm D	AJ2077	15
Knob Dark Grey & Grey 11mm D	AJ2078	15
Knob Yellow & Grey 11mm D	AJ2079	10
Knob Brown & Grey 11mm D	AJ2080	10
Button 10x5mm Rectangular Grey	AJ2865	2
Button 10x5mm Rectangular Black	AJ3228	1
Fader Knob 11mm Black + White Line	AJ3503	15
Switch Cap Grey 6x6mm Offset	AJ3863	20
Button Illuminated Red	AJ3949	2
Switch Cap White Offset	AJ3950	20
Button 6x6mm Square White	AJ3951	10
Button 6x6mm Square Light Grey	AJ3952	5

Button 6x6mm Square Red	AJ3953	10
Button 6x6mm Square Black	AJ3954	5
Button 8mm Round Light Grey	AJ3955	10
Fader Knob 11mm White+Black Line	AJ8078	10
Fader Knob 11mm Red+Black Line	AJ8079	10
Fader Knob 11mm Yellow+Black Line	AJ8080	5
Fader Knob 11mm Blue+Black Line	AJ8081	10
Button Illuminated White	AJ8107	10

Faders, Potentiometers, Switches and connectors:

Pot 10KC x 2 (103C 14mm wide)	AI0150	3
Pot 20KK (203K 11mm wide)	AI8003	5
Pot 20KB C/D (203B 11mm wide)	AI8004	5
Pot 200KC x 2 (204C 11mm wide)	AI8005	5
Pot 20KB x 2 centre click (14mm wide)	AI8006	5
Pot 20KK x 2 (203K 14mm wide)	AI8007	10
Pot 10KAC x2 (103AC 14mm wide)	AI8008	10
Pot 200KC x 2 (204C 14mm wide)	AI8009	5
Fader 10KSPE 100mm	AI8109	3
Pot 5K (502RD 11mm wide)	AI8111	5
Fader 10KB 100mm	AI8175	10
Fader 10KA 60mm	AI8176	5
Switch 2PCO Latching 90 Deg	AL0162	10
Jack Socket Headphone	AL0328	1
Switch 4PCO Latching	AL0333	15
Switch 2PCO Momentary	AL0374	10
XLR 3 Pin Female Vertical PCB Mount	AL2410	5
XLR 3 Pin Male Vertical PCB Mount	AL2411	5
Switch Slide MINI SPDT PCB	AL3081	1
Jack Socket ¼" Stereo Unswitched	AL3407	20
Jack Socket ¼" Stereo Switched	AL3410	20

LEDs and Semiconductors:

Transistor BC549 NPN	AE0020	5
IC TLO72 Op-Amp	AE0046	10
Transistor J111N FET T092	AE0083	10
LED 3mm T1 Yellow	AE0084	10
LED 3mm T1 Green	AE0085	10
LED 3mm T1 Red	AE0086	10
IC CMOS 4053B	AE0117	10
IC CMOS 4051B	AE0118	1

IC NE5532 Op-Amp	AE0221	10
IC 6N136 Opto-Isolator	AE0222	1
IC TTL 74LS00	AE0243	1
IC Opto-Isolator 4N35	AE0266	2
IC 7805 Regulator	AE0308	3
IC SSM2018P VCA	AE0315	5
IC RS232 HIN202CP	AE2742	1
IC CMOS 74HC165	AE2749	3
IC CMOS 74HC4094N	AE2755	5
IC Comparator LM393N	AE2818	5
Transistor BC556B PNP	AE3001	5
Crystal 14MHz	AE3007	1
LED Square Red	AE3489	5
LED Square Green	AE3490	10
LED Square Yellow	AE3491	5
Transistor Mosfet BSS138	AE3498	1
IC LA6515 Power Op-Amp	AE3707	3
IC CMOS 74HCT02	AE3988	1
IC SN75176BP Buffer	AE3989	1
LED Rect. Red 5 x 2.5mm	AE4015	3
LED Rect. Yellow 5 x 2.5mm	AE4016	3
LED Rect. Green 5 x 2.5mm	AE4017	3
LED T1 3mm Blue	AE4041	3
Transistor 2SB737 PNP	AE8069	10

Miscellaneous:

Preset 10K Carbon Horizontal Mini	AC0250	5
Preset 470K Carbon Horizontal Adjust	AC4012	5
Meter bulb	AD0013	5
VU Meter + 8V Bulb	AD3321	2
Flex Cable 12 Way 90mm	AH2228	5
Flex Cable 15 Way 90mm	AH4091	3
Battery 2.4V 70mAh NICAD	AP3334	1

ORDERING AN MPS14 SPARES KIT

It is recommended that the spares kit order code **002-632** is held and maintained by the service agent to enable in-field service repairs to the **MPS14** independent of the ALLEN & HEATH factory. Commonly available items such as resistors, capacitors, tools and soldering equipment are not included. The contents of the kit are listed below and are supplied in a cabinet of drawers. Individual spare parts may be ordered. Please quote the description and order code for the part required.

Power supply:

DESCRIPTION	ORDER CODE	QTY
Insulating Kit TO220	AA3514	5
Insulating Pad TDA7294 IC	AA3645	4
Screw M3x 6mm Pan Pozi Black	AB0072	10
Screw M3 x 8mm Pan Pozi Black	AB0073	3
Screw M3 x 10 Pan Pozi Black	AB0076	10
Nylock Nut M3	AB0102	5
Pillar M4 x 10 Nylon Tap	AB0257	3
Screw M4 x 5 Pan Slotted Zinc	AB0261	10
Screw M4 x 8 Countersunk Pozi Black	AB2777	5
Screw 6B x 5/16 Pan Pozi Black	AB2809	10
Screw 4 x 5/16 Poly Pan Pozi Black	AB2810	10
Clip TO220 Type 4426	AB3547	3
Clip TO247 Type MAX03	AB4069	3
Clip TO220 Type MAX10	AB4099	3
Clip TO247 Type 4597	AB4148	3
Res W/Wound 0R33 2.5W 5%	AC3014	3
Preset 1K Carbon Vertical Adjust	AC3958	1
Res Planar 10R 10W	AC4002	2
Zener Diode BZX85 5V6 1.3W	AE0012	3
IC TL072 Dual Op-Amp	AE0046	3
IC 7815 Regulator	AE0047	2
Transistor BC637 NPN TO92H	AE0068	2
IC LM339N Quad Comparator	AE0071	3
IC Adjustable Regulator 783	AE0214	2
IC Op-Amp NE5532N	AE0221	3
Zener Diode BZX55C2V7	AE0231	2
Zener Diode BZX79C 12V 400mW	AE0232	2
IC Regulator 7818	AE3155	2
Diode BYW81P-200 15A	AE3468	2
Diode BYV27-400 2A	AE3469	3
Diode BYV26E 1A 1000V	AE3470	3
Diode P6KE200A	AE3471	3
Transistor Mosfet STP4NA80FP	AE3472	3

IC SMPS UC3842AN	AE3473	2
Bridge Rectifier 2KBP04M	AE3477	2
Thermistor 100K	AE3499	2
LED Rect. Green 5 x 2mm Flat Top	AE3501	2
LED Rect. Red 5 x 2mm Flat Top	AE3502	3
IC Regulator 7812	AE3588	2
Zener Diode BZV85 20V 1.3W	AE3815	2
Diode 1N5819 1A 40V	AE3914	3
Bridge Rectifier RBV2506	AE3921	2
Transistor Mosfet IRF540N	AE3924	2
Transistor Mosfet IRF9540N	AE3925	2
Transistor Mosfet IRFP450	AE3926	3
Diode RURP3060 30A 600V	AE3933	3
Diode SQ045 8A 45PIV	AE3934	3
Diode SF64 8A 80PIV	AE3935	3
IC SG3525AN PWM Control	AE3938	3
IC UC3854AN PFC Control	AE3939	3
Transistor Mosfet ZVN2106A	AE3940	2
Transistor Mosfet ZVP2106A	AE3941	2
Transistor MPSA92 PNP	AE8119	1
Transistor MPSA42 NPN	AE8138	1
Inrush Suppressor	AE8143	1
Fastfoot	AK0102	4
Foam Filter 80 x 80mm	AK4070	3
Fuse 6.3A Anti-Surge 20mm	AL0395	5
Fuse 1.6A Anti-Surge 20mm	AL0466	5
Fuse 5A Anti-Surge 20mm	AL2270	5
Fuse Holder 10A 20mm PCB	AL3447	1
Fuse 500mA Anti-Surge 20mm	AL3534	5
Switch 2PCO Latching Vertical	AL8057	1
Inductor 4.7uH 600mA	AM3467	5
Fan 80x80x25 12V DC	AM3517	1
Inductor Ferrite Sleeve	AM3657	3
Inductor 5MH 5A CMC	AM3900	1
Inductor 330UH 1A	AM3901	1
Inductor 150UH	AM3902	1
Inductor 10UH	AM3903	1
Inductor 1MH	AM3904	1
Transformer HF Pulse PCB	AM4006	1

SYSTEM BLOCK DIAGRAM



