



D200-4L

Part list

For safety critical components please contact Labgruppen for the correct manufacturer							
Item number	Safety Critical	Item name	Replacement	Designator	Service level		
					1	2	3
Power Supply							
SMPS200PFC-09A		Smps 20KW service board For D200, PLM20K					x
FPMSC		Front Panel Magnetic Shield Type C					x
PWSP200C		Partition Wall for SP200 type C					x
BC807-40		Transistor Bipolar Signal Bc807-40 SOT-23		Q3, Q7, Q307, Q308, Q508			x
BC817-40		Transistor Bipolar Signal Bc817-40 SOT-23		Q4, Q5, Q8, Q9, Q400, Q401, Q403, Q507,			x
PMBTA42		Transistor high-voltage NPN PMBTA42 SOT-23		Q404, Q12			x
PMBTA92		Transistor high-voltage PNP PMBTA92 SOT-23		Q408			x
BC847B		Transistor Bipolar Signal BC847B SOT-23		Q11			x
MMBF4392		Transistor Signal MMBF4392		Q10, Q500			x
PDTC144ET		Transistor resistor-equipped NPN PDTC144ET SOT-23		Q509			x
BCV47		Transistor Darlington BCV47 SOT-23		Q505			x
74AHC1G125		Ic Bus buffer/line driver 3 state 74AHC1G125 SOT353-1		U300, U401			x
TCET1102G		Ic Photocoupler Tcet1102g		U407, U408, U504			x
LM833		Ic Operational Amplifier Lm833 SOIC Narrow body		U404, U405			x
FAN3224CMX		Ic dual gate driver FAN3224CMX SOIC-8		U601, U701			x
PWMPFC103a-F01		Pulse Width Modulator PFC type 1 rev.03a Final Assembly 01		U204			x
ACS712		Ic Current Sensor ACS712 SOIC Narrow body		U202			x



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UCC3813-4		Ic Pwm UCC3813-4 SO-8	U502			x
LP339D		IC comparator LP339D SOIC	U501			x
L5970D		IC Regulator L5970D SO8	U516			x
NCP102765		Ic High Voltage Switcher NCP102765 PDIP-8	U510			x
TL431A		Ic Shunt Regulator TL431A SOT-23	U512, , U514, U505			x
LM317FP		Ic Voltage Regulator Lm317 Full Pack	U506			x
LM337		Ic Regulator Lm337 TO-220	U508, U509			x
LM339D		Ic Comparator Lm339D	U507			x
SI8441-C		Ic Digital Isolator SI8441-C	U900			x
74AHC1G14		Ic Inverting Scmitt trigger 74AHC1G14 SOT353-1	U902			x
BAS21		Diode Signal Bas21 SOT-23	D3, D304, D307, D504			x
1N4006		Diode Power 1n4006	D303, D305			x
6V2.225W2%SOT-23		Diode Zener 6V2 .225W 2% SOT-23	D4, D302, D401, D403			x
BAV99B		Diode Double Bav99 type B SOT-23	D402, D610, D612,			x
BAV70		Diode Double Bav70 SOT-23	D604			x
FFPF60SA60DS		Diode FFPF60SA60DS TO-220FP	D703, D602, D603, D702			x
18V.225W2%SOT-23		Diode Zener 18V .225W 2% SOT-23	D502			x
US1J		Diode Fast Recovery US1J SMA	D510, D514, D505, D508, D314, D316, D501			x
BYS10-45		Diode Schottky BYS10-45 SMA	D500			x
5V6.25W5%SOT-23		Diode Zener 5V6 .25W 5% SOT-23	D517			x
STTH2R06A		Diode Fast STTH2R06A SMA	D511			x
5V6.25W5%SOT-23		Diode Zener 5V6 .25W 5% SOT-23	D515			x



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PSMCU-08Ab		Power Supply Master Control Unit rev.08 Ab		U5			x
PWMPC75D01c-F01		PWM Peak Controller 7500W type D rev01c Final Assembly 01		U700, U602			x
27V.25W5%SOT-23		Diode Zener 27V .25W 5% SOT-23		D520			x
COAEXPFC52-A01		Cooler Aluminium Extruded PFC 52mm - Assembly Type 01		CO5A, CO5B			x
COAEXPFC70-A01		Cooler Aluminium Extruded PFC 70mm - Assembly Type 01		CO1			x
COAEXPFC70-A03		Cooler Aluminium Extruded PFC 70mm - Assembly Type 03	Replaces all COAEXPFC70-A03 (See restriction nr1) because of compatibility problems between COAEXPFC70-A03a and COAEXPFC70-A03b	CO4			x
COCIP14X2-A01		Cooler Copper IsoPlus-i4pacx2 - Assembly Type 01	Replaces all COCIP14x2-A01 (See restriction nr1) because of compatibility problems between COCIP14x2-A01a and COCIP14x2-A01b	CO6A, CO6B			x
COSP05FB		Cooler for SP05F type B		CP500, CP501			x
6R8.33W5%1206		Resistor 6R8 .33W 5% Surface Mounted 1206		R622			x
2R7.33W5%1206		Resistor 2R7 .33W 5% Surface Mounted 1206		R623			x
10K.125W1%0805		Resistor 10K .125W 1% Surface Mounted 0805		R500, R524, R526, R391, R722, R330, R333, R533, R570, R335, R429, R567, R535, R536, R548, R721, R417, R603, R604			x
22n630VMKP7.5		Capacitor Polypropylene 22n 630V Mkp 7.5mm		C701, C600, C601, C700			x
T50WFETD29		Transformer 50w Flyback ETD29		K501			x

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T16A400-5x20AL		FUSE SLOW BLOW 16A 400V 5X20MM AXIAL LEADS		F800, F700, F600			x
T3A15400-5x20		Fuse Slow Blow 3.15A 400V 5x20mm					x


INPUT and OUTPUT							
A-LP4A4D-B-T		A-LP4A4D-B-T Tested for D-Series L					x
HOSTEXTPCIE-04Aa		Host Extention PCIE rev.04 vers. Aa					x
BP2PCIFC-04Aa		BackPlane 2PCI Fan Control rev.04 variant A. bomversion a					x

INPUT and OUTPUT							
DICO4B-03CD200-T		DICO4B-03CD200-T service board for D-PLM+ FCT					x
BREMCJ		Bracket Emc Type J					x
OCV4F-02Ab		Output Connector Vertical 4 Channel rev.02 type A ver b					x
LM2672M-3.3		Ic Voltage Regulator LM2672-3.3 SO-8		U427			x
BC857C		Transistor Bipolar Signal BC857C SOT-23		Q1, Q101, Q201, Q301			x
FAN3224TMX		Ic dual gate driver FAN3224TMX SOIC-8		U437			x
74HC74SO14		IC Logic 74HC74 SO14		U436			x
NE5532D		IC Operational Amplifier NE5532D SOIC-8		U1, U101, U201, U301			x
OPA2134UA		IC Operational Amplifier OPA2134UA SO-8		U400, U401			x
CS4398		Ic D/A Converter CS4398 TSSOP-28		U402, U403			x
LM393D		Ic Comparator Lm393D SOIC-8		U417, U418, U419, U420			x
TPS62040		Ic Step-down Converter TPS62040 MSOP-10		U428			x

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MT48LC8M16A2P		Ic SDRAM MT48LC8M16A2P 128MBIT TSOP-54	U408			x
S29GL032A-90		Ic Flash 32Mbit S29GL032A-90 TSOP-48	U409			x
TS922		Ic Operational Amplifier TS922 SOIC-8	U102, U2, U202, U302			x
PCM1803		Ic A/D Converter PCM1803 SSOP-20	U104, U204, U304, U4			x
SI8441-C		Ic Digital Isolator SI8441-C	U105, U205, U305, U5			x
BAV99		Diode Double Bav99 SOT-23	D102, D103, D2, D202, D203, D3, D302, D303, D417			x
LP2985IM5-3.3		Ic Voltage Regulator LP2985IM5 3.3V SOT-23-5	U121, U21, U221, U321			x
2N7002		Transistor MOSFET 2N7002 SOT-23	Q103, Q203, Q3, Q303			x


Amp Board						
A60TD-10A-T		A60TD-10A-T FCT				
PWMNATD-F01		Pwm Negative Side Amp. Class Td Final Assembly Type 01	U5			x
PWMPATD-F01		Pwm Positive Side Amp. Class Td Final Assembly Type 01	U6			x
T20AH250-6.3x32		Fuse Slow Blow 20a 250v 10000a Ir 6.3x32mm	P2 P3			x
NJW21194		Transistor Bipolar Power Njw21194 To-3	Q12, Q13, Q14, Q15, Q16			x
NJW21193		Transistor Bipolar Power Njw21193 To-3	Q1, Q2, Q3, Q4, Q5			x
NJW3281		Transistor Bipolar Power Njw3281 To-3	Q11			x
NJW1302		Transistor Bipolar Power Njw1302 To-3	Q7			x
IXFR140N30P		Transistor Mos Power IXFR140N30P	Q39, Q41,			x
IRFU9024		Transistor MOS power IRFU9024	Q47, Q48,			x
IRFU014		Transistor MOS power IRFU014	Q46, Q49			x
BC859C		Transistor Bipolar Signal BC859C SOT-23	Q32, Q45, Q50, Q22, Q25, Q27, Q28, Q19, Q18			x

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BC849C		Transistor Bipolar Signal Bc849c SOT-23		Q44, Q51, Q23, Q33, Q34, Q35, Q36, Q29, Q30			x
MPSA42		Transistor Bipolar Signal Mpsa42		Q37			x
MJE340I		Transistor Bipolar Signal Mje340 Isolated		Q10			x
STTH1506DPI		Diode Power Stth1506dpi		D37 , D34			x
US1G		Diode Fast Recovery US1G SMA		D47, D46, D44, D45			x
15V1.3W5%		Diode Zener 15V 1.3W 5%		D40, D41			x
75V.25W5%SOT-23		Diode Zener 75V .25W 5% SOT-23		D28, D13			x
3V3.25W5%SOT-23		Diode Zener 3V3 .25W 5% SOT-23		D39, D43			x
68R.125W1%0805		Resistor 68R .125W 1% Surface Mounted 0805		R19, R			x
100K.25W1%1206		Resistor 100K .25W 1% Surface Mounted 1206		R76, R31			x
10R.6W1%		Resistor Metal Film 10r .6W 1%		R109			x
47u50V1M		Capacitor Electrolytic 47u 50V 2,54mm, 6,3x11		C11, C19, C2, C20, C21, C22, C43, C44			x


Mains input filter							
MI200-04A-T		MI200-04A-T Service board for D-series and PLM20K FCT					x



Chassis							
IFPF-PGRY-A		Interior Front Panel type F Assembled					x
PMH6.8x5x5N		Polarized Magnet H6.8x5x5mm Neodym			x		
DF397x83.5x6-20		Dustfilter 397x83.5x6mm 20ppi Filtren Firend (a) V-0 Hf1			x		
SSVw8I25		Strip Selfadhesive Velcro w=8mm l=25mm			x		
EFPJ-D200-4-A		Exterior Front Panel Type J D series 200:4 Final assembly			x		

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TCD-PBLK		Top Cover Type D Painted Black				x	
PMHSIA		Plastic Magnet Holder Snap In Type A			x		
RPSFDD200-4L-A		Rearpanel type D200-Lake Assembly for service					x
SPRE-PBLK		Side Panel Right Type E Painted Black					x
SPLE-PBLK		Side Panel Left Type E Painted Black					x

User interface							
UI6T42L-04-AL-AT		UI6T4L-04-A-AT service Display Assembly for D-series Lake FC					x
FFCP.5C24L305		Flat Flex Cable Pitch 0.5mm Cond 24 Length 305mm					x
SP151x39.6x4		Spacer Plastic 151 x 39.6 x 4 mm					x

Miscellaneous							
K-RSC		Kit RearSupport type C			x		
DSSU440x5DSUB		Distansskruv Stål UNC4/40 x5mm for D-SUB + Loctite					x
QSG-DSL		Quick Start and Field Reference Guide for D series LAKE			x		
FS440x8x6		Foam Sticker 440x8x6mm					x
K-IDS		Kit Installation D series			x		
SCAFCCMBGB		Sticker Caution Approvals FCC Must Be Grounded Type B					x
RSI-2642		Rivet Snap In D2.6 T4.2					x
B580x629x150LAB3		Box 580x629x150mm type 0427 Cardboard White Lab.gruppen 3			x		
PEPPCA		Packing EPP Corner type A			x		
MLUS-515P-PCHC		Mains Lead Usa Plug type 5-15P + PowerCon High Current				x	

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MLEU-CEE7-PCHC		Mains Lead Eu Plug type Cee7/vii + PowerCon High Current				x	
MLUS-620P-PCHC		Mains Lead Usa Plug type 6-20P + PowerCon High Current				x	
IBE		Interior Box type E 570 x 119 x 66mm			x		
F60x25-24HS		Fan 60x60x25mm 24vdc High Speed					x
GS.8-1		Grommet Strip, Panel Thickness 8-1mm					x
CASO2x41M190		Cable assembly socket 2x4pole 1M L190mm					x
CASO2x41M310		Cable Assembly Socket 2x4pole 1m L310mm					x
CASO2x41M420		Cable assembly socket 2x4pole 1M L420mm					x
CASO2x41M600		Cable assembly socket 2x4pole 1M L600mm					x