

# PARTS LIST

			口　　台			P - 1
MODEL HL-450B	GENERAL		資材納期			
Reference/Symbol	Description	Part Type	Remarks	Quantity	Vendor	Manufacturer
記号		品番・図番	規格・仕様	数 / 台	購入先	備考
		L1361HI	別紙	1	Kurosu S/S	
	Heat Sink	1361M10	50F147 (脱脂)無処理	1	Yoshikawa Kinzoku	
	Switch Knob	UE202011	Black 15m/m	2	Fronteer	Alps
J504	Terminal Holder	FT501R	(Red)	1	Fronteer	Morimatsu
J505	↓	FT501B	(Black)	1	↓	↓
FAN501	Fan	PUDC12Z4R M3	DC 12V	1	Mikasa Electrical Engineering	Japanservo
	Fan Guard	F80UL		1	↓	Japanservo
TG501	Thermal Guard	OHD3-70M	70	1	Tsuchiyadenki	Tokin
J501.502	Connector	SO-239(M-BR)	アースラグ別、後止め、インチ	2		Toyo Connector
M501	Panel Meter	HL-450B用	SK5028-81	1	Takuma	Takuma
	Rubber Foot	BU4850B CA20		4		
IC501	IC	78L08	8V	1		New JRC
VR501	Pot	RV16YN15SB104	100K(B)	1	Tama Ohm	Tokyo Cosmos Electric
	Knob	MSA-11S		1	LAX	Tama Electric
C508.509	Capacitor	EKMG500ELL 100MF 11D	50V10 μ F	2		Nippon Chemi-con
C503.504	Ceramic Capacitor	RPE132R102K50	50V1000PF	2	Seiken	Murata
C501.502.505.506.507.510	↓	RPE132R103K50	50V0.01 μ	6	↓	↓
D501	Diode	1S2076A		1		Hitachi

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J503	RCA Jack	RCA-J	PM-016 Black	1	Tama Ohm	Sato Parts
RL51	Relay	AG201344		1		Matsushita
	Clamp Core(L)	ZCAT3035-1330		2	Tama Ohm	TDK
	Jumper Cable		PL259 RG58A/U 0.7M	1	Import	Accessory
OD-10	Audio Cable	RCA Plug(Red) ←	→ RCA Plug(White) × 2	1m 1	Tama Ohm	Sato Parts
	Screws & Bolts			1		
	Display Box		HL-450B	1	Daiichi Sangyo	
	Wire Harness			1	Itsue Electro	
	Cables (Pre-cut)			1	↓	
	Instruction Manual			1		
	Coils			1	Wako Denshi	
	Name Plate	1361M22	# 50 Tetoron,Transparent Laminate	1		
	Assembly Cost			1		
	Spiral Tube	6 × 8 (Transparent)	10cm	1	Optics	
	Convex	CV-70N	Insulation Fixer	40	↓	
		CV-150N	Insulation Fixer	1	↓	
	Lug Term.	L-3552-1L-2P		1	Tama Ohm	Sato Parts
	Silk Screen	1361M07		1	Akiyama	Akiyama

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MODEL HL-450B	PA UNIT		資材納期			
Reference/Symbol	Description	Part Type	Remarks	Quantity	Vendor	Manufacturer
記号		品番・図番	規格・仕様	数 / 台	購入先	備考
	PA Board	PCS1693A		1	Sanko Electronics	
Q103.104.105.106	Transistor	2SC2879	THP-120	4		Toshiba
Q101.102	Transistor	2SD2406Y		2	Shinki Electronics	Toshiba
R147	Resistor	RD25S221	1/4W 220	1	Ship Electric	
R128.144		RD25U471	1/4W 470	2		
R106		RD25U472	1/4W 4.7K	1		
R104		RD25U103	1/4W 10K	1		
R103		RD25U153	1/4W 15K	1		
R105		RD25U223	1/4W 22K	1		
R102		RD50S472	1/2W 4.7K	1		
R121.122.137.138		ERG1ANJ100	1W 10	4		Rikyu Electronics
R116.117.118.119.123.125.126.127.132.133.134.135.139.141.142.143.150.151		ERG1ANJ3R9	1W 3.9	18		
R101		ERG1ANJ102	1W 1K	1		
R149		ERG2ANJ201	2W 200	1		
R114.115.130.131		ERG2ANJ102	2W 1K	4		
R148		ERG3ANJ100	3W 10	1		
R129.145		ERG3ANJ120	3W 12	2		
R112.113		ERG3ANJ220	3W 22	2		
R120.124.136.140		ERG3ANJ101	3W 100	4		
R110		ERG3ANJ911	3W 910	1		
R146	↓	ERG5ANJ201	5W 200	1	↓	↓

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記号		品番・図番	規格・仕様	数 / 台	購入先	備考
R108	RF Resistor	RNP10C	12	1	Kindai Denshi	Nikkohm
R111	↓	RNP10C	50	1	↓	↓
R107	↓	RNP10C	430	1	↓	↓
VR101.102	Semi-fixed Pot	TM64K2PV102	1K	2	Kaga Electronics	Noble
VR103	↓	TM64K2PV103	10K	1	↓	↓
D101.102	Diode	1S2076A		2		Hitachi
D103.104.105.106	↓	1N4002		4		Rectron
IC101	IC	TC74HC14AP(F)		1	Nihoninterface	Toshiba
IC101	IC Socket	ICC05-014-360T	14P DIP	1	Takagi	
C107	Electrolytic Capacitor	EKMG500ELL 101MHB5D	50V100 μ F	1	Makotodenshi	Nippon Chemi-con
C111.122.123.149.150.162	↓	EKMG500ELL 470MF11D	50V47 μ F	6	↓	↓
C127.153	Dip Mica Condensor	DM19 561J	560PF	2	Hokuei Electro	NTK
C113.114.137.138	↓	DM19 821J	820PF	4	↓	↓
C101.102.103.104.106.108.109.117.120.141.144.135.159.160	Ceramic Capacitor	RPE132R103K50	50V0.01 μ	14	Seiken	Murata
C110.116.124.140.152.118.119.142.143.161.164.165	↓	RPE132R104K50	50V0.1 μ	12	↓	↓
C105	Ceramic Capacitor	HE40SJCH050	50V5P	1		T D K
C132.156	↓	HM13SJCH151J	500V150P	2		↓
C163	↓	CC45CH1H1R0	50V1P	1		↓

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MODEL HL-450B	PA UNIT		資材納期			
Reference/Symbol	Description	Part Type	Remarks	Quantity	Vendor	Manufacturer
記号		品番・図番	規格・仕様	数 / 台	購入先	備考
C168	Ceramic Capacitor	CC45SL1H101	50V100P	1		TDK
C166.167	Film Condensor	ECQV1H105JL	1 $\mu$ F	2		Matsushita
C115.121.139.151	Chip Condensor	GRM31M2C1H562J	5600PF	4		
C164.165	↓	GHM1540X7R104630	63V 0.1 $\mu$	2		Murata
C133.157		UC553A4700J	470PF	2		
C134.158		UC553A1001J	1000PF	2		
					Taiyo	
L101.102.103.104	Choke Coil	LAL04SK2R2M	2.2 $\mu$ H	4		Seraken
RL101	Relay	AG201344	DC12V	1		Matsushita
J102	EH Connector	B6B-EH	6P	1		Nichiatsu
J101	mini Pin Jack	TMP-J01X-A2		1	Fronteer	Tyco
J104.105.106.107	Terminal Holder	Y101		4		
T101.103.106	Ferrite Transformer	1361S07A	TR16 $\times$ 8 $\times$ 8 D12A	3		Tomita
T102.105	Input Transformer	1361S03	TR12.5 $\times$ 8 $\times$ 12 5H2 $\times$ 2	2		↓
T104.107	Output Transformer	1361S04A	RIB16 $\times$ 32 $\times$ 32 5H2	2	Wako Denki	
T108	Combiner	1361S05A	RIB16 $\times$ 32 $\times$ 16 D12A	1	↓	

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			口　　台			P - 1
MODEL HL-450B	CONTROL UNIT		資材納期			
Reference/Symbol	Description	Part Type	Remarks	Quantity	Vendor	Manufacturer
記号		品番・図番	規格・仕様	数 / 台	購入先	備考
	Control Board	PCS1696A		1	Sanko Denki	
SW1	Switch	SPEA12F NR	ノンロック	1		Alps
SW2	↓	SPEA12F	E1688990	1		↓
IC1	IC	PIC18F2320 I/SP	28P DIP	1	Nihon Inter	Micro Chip
IC2		NJM78L05	5V	1		New JRC
IC3		LM393N		1	Nihon Inter	National Semiconductor
IC4		TD62003AP		1	↓	Toshiba
IC5	↓	NJM2904D		1	Fronteer	JRC
IC1	IC Socket	ICC05-028-360T	28P DIP SLIM	1	Akizukidenshi	
IC4	↓	ICC05-016-360T	16P DIP	1	Takagi	
Q1.3	Transistor	2SC5395F		2		Toshiba
Q2.4	↓	2SA966		2		↓
X1	Crystal	20MHz	HC-49U/US	1	Akizukidenshi	Akizukidenshi
D1.2.3	Diode	1S2076A		3		Hitachi
R9	Resistor	RD25S470	1/4W 47	1	Ship Electric	
R17.14.39		RD25S101	1/4W 100	3		
R3.4.5.6.7.8.40		RD25S471	1/4W 470	7		
R1.2.13.15.32.35.41		RD25S102	1/4W 1K	7		
R18.30.34.38		RD25S332	1/4W 3.3K	4		
R10.12.36		RD25S472	1/4W 4.7K	3	↓	
	↓					

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			口外 台			P - 2
MODEL HL-450B	CONTROL UNIT		資材納期			
Reference/Symbol	Description	Part Type	Remarks	Quantity	Vendor	Manufacturer
記号		品番・図番	規格・仕様	数 / 台	購入先	備考
R11.19.20.22.23.27.31.33.37	Resistor	RD25S103	1/4W 10K	9	Ship Electric	
R21	↓	RD25S203	1/4W 20K	1	↓	
R16.24	↓	RD25S333	1/4W 33K	2	↓	
R28	↓	RD25S473	1/4W 47K	1	↓	
R26	↓	RD25S204	1/4W 200K	1	↓	
R29.42	↓	RD25S105	1/4W 1M	2	↓	
VR3	Pot	TM64K2PH102	1K	1	Kaga Electronics	Noble
VR1	↓	TM64K2PH103	10K	1	↓	↓
					↓	↓
C13.14.15.16.17.18.20.23.33.34.35	Ceramic Capacitor	RPE132R102K50	50V1000P	11	Seiken	Murata
C1.8.9.10.11.12.19.21.22.24.26.28.29.30.31.32	↓	RPE132R103K50	50V0.01	16	↓	↓
C4.36.37.39	↓	RPE132R104K50	50V0.1	4	↓	↓
C2.3	Ceramic Capacitor	HE40SJCH220J	50V22PF	2		
C5	Electrolytic Capacitor	KME50VB4R7	50V 4.7 μ	1	Makotodenshi	Nippon Chemi-con
C6.7.25	↓	EKMG500ELL 100MF 11D	50V 10 μ	3	↓	↓
C38	↓	KME50VB22	50V 22 μ	1	↓	↓
LED1.4.5.6.7.8.9	LED	SLP-255B-51	( 緑 )	7		Sanyo
LED2	↓	SLP-455B-51	( 黄 )	1		↓
LED3	↓	SLP-190B-51	( 赤 )	1		↓



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			口 台			P - 1
MODEL HL-450B	LPF・DETECTOR UNIT		資材納期			
Reference/Symbol	Description	Part Type	Remarks	Quantity	Vendor	Manufacturer
記号		品番・図番	規格・仕様	数 / 台	購入先	備考
	LPF/Detector Board	PCS1694A	PCS1695Aと集合	1	Sanko Electronics	
RL202.203.204.205.206. 207.208.209.210.211.212	Relay	G2R-1	DC12V	11	Takagi	Omron
	↓					
RL201	↓	AG201344	DSP1	1		Matsushita
L201.202	Toroid Core Material	1361S01A	T-80-2 × 2	4	Wako Denki	Micrometal
L205.206.209.210	↓	↓	T-80-6	4	↓	↓
T201	↓	1361S06	TR12×6×4 6A	1		
D201.202.203.204.205.206. 207.208.209.210.211.212.213.214.215	Diode	1S2076A		15		Hitachi
R203	Resistor	ERG1ANJ101	1W 100	1		Rikyu Electronics
R205.206	↓	RD25U101	1/4W 100	2		↓
R202	↓	RD25U222	1/4W 2.2K	1		↓
R201	↓	RD25U223	1/4W 22K	1		↓
C260	Ceramic Capacitor	HE80SJCH101J	50V 100P	1		
C261	↓	HM60SJCH040	500V 4PF	1		TDK
C231	↓	CCD60CH12	500V 12PF	1		↓
C216.262	↓	HM60SJCH150J	500V 15PF	2		↓
C234.235	↓	HM60SJCH180J	500V 18PF	2		↓
C242	↓	HM60SJCH220J	500V 22PF	1		↓
C236.237	↓	CC45CH2H270JYA	500V 27PF	2		↓

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Reference/Symbol	Description	Part Type	Remarks	Quantity	Vendor	Manufacturer
記号		品番・図番	規格・仕様	数 / 台	購入先	備考
C229	Ceramic Capacitor	HM74SJCH330J	500V 33PF	1		TDK
C228.230		HM74SJCH390J	500V 39PF	2		
C204.205.212.225.227.233.264		CC45CH2H470JYA	500V 47PF	7		
C203.224		RCC09CH680	500V 68PF	2		
C214.215.217.226.232		CC45CH2H101JYA	500V 100PF	5		
C210		CC45CH2H121JYA	500V 120PF	1		
C206.209.240.241.243	↓	CC45CH2H151JYA	500V 150PF	5		↓
C222.223.263	Chip Condensor	UC232H2500J	500V 250PF ( 2 )	3		SOSHIN
C211	↓	UC232H4000J	500V 400PF ( d2 )	1		↓
C202.207.208	↓	UC232H4700J	500V 470PF ( S2 )	3		
C201.244.245.246.247.248.249.250	Ceramic Capacitor	RPE132R103K50	50V0.01	17		Murata
C251.252.253.254.255.256.257.258.259	↓					
J206	EH Connector	B2B-EH	2P	1		Nichiatsu
J204	↓	B10B-EH	10P	1		↓
J201.202	mini Pin Jack	TMP-J01X-A2		2		Taikou
TC201	Trimmer	CVE70-41	70PF	1		Swallow Electric
L211	Inductor	LAL03NA102K	1mH	1		
VR201.202	Pot	TM64K2PV103	10K	2		

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			口外 台			P - 1
MODEL HL-450B	REMOTE UNIT		資材納期			
Reference/Symbol	Description	Part Type	Remarks	Quantity	Vendor	Manufacturer
記号		品番・図番	規格・仕様	数 / 台	購入先	備考
	Remote Board	PCS1695A		1	Sanko Electronics	
IC301	IC	MAX4172ESA		1	Nihon Inter	Maxim
R302	Resistor	RD25S102	1/4W 1K	1		
R301	↓	RD25S103	1/4W 10K	1		
VR301	Semi-fixed Pot	TM64K2PV502	5K	1		Noble
C301.302.303.304.305.307	Ceramic Capacitor	RPE132R103K50	50V0.01	6		Murata
C306	Electrolytic Capacitor	KME50VB7R7	50V 4.7 μ F	1		
C308	Chip Condensor	GHM1540X7R104K6	0.1 μ F	1		Murata
FS301.302.303.304	Fuse	125V30A		8		Accessory 4pcs.
FS305	Fuse	LM10	1A	1	Takagi	Daito
	Fuse Holder	FC-310P		8		Call
	↓	LM-1H		1		Daito
J307	RCA Jack	JPJ2545-01-510RF		1	Kaga Electronics	Hosiden
J308	DIN Connector	TCS4490-01-4951	8P	1	Kaga Electronics	Hosiden
J304.309	EH Connector	B2B-EH	2P	2		Nichiatsu
J303	↓	B8B-EH	8P	1		↓
Z1.2.3.4	Bead Filter	ZJSR5101-222-01		4		TDK

# SCREWS

			口	台			
MODEL HL-450B	SCREWS		資材納期				P-1
記号	品名	品番・図番	数/台	必要数	出庫数	使用用途	
	3*6トラス(黒)		4			フロントパネル(4)	
	3*6トラスタッピング(黒)	Bタッピング	16			カバー(16)	
	3*8セムス		8			PA TR(8)	
	3*6 Cセムス(小)		30			HS取り付け(6)LPF基板(4)コントロール基板(4)リモート基板(4)PA ATT(3)PA端子台(4)、PA出力(2)、LPF入力(1)、LPF出力(2)	
	3*8 Cセムス(小)		19			HS取り付け金具(6)PA基板(4)ファン取り付け(2)サーマルガード(1) リモート基板(4)2SD2406Y(2)	
	3*12 Cセムス(小)		4			カラー足(4)	
	3*8 ナベ		1			パスコン(1)	
	4*35 ナベ		4			ファン(4)	
	2.6*6 皿		5			メーター(1)コントロール基板(4)	
	3*6 メス-メス スタッド	ASB-306	5			PA出力(2)、LPF入力(1)、LPF出力(2)	
	3*10 メス-メス スタッド	ASB-310	8			LPF(4)リモート基板(4)	
	SW3		5			リモート基板(4)パスコン(1)	
	SW4		4			ファン(4)	
	ラグ板 L-3		8			PA出力(2)、LPF入力(2)、LPF出力(2)、パスコン(2)	
	N3		1			パスコン(1)	
	N4ウス H=2.4		6			PA(6)	