

Service
Service
Service



Service Manual

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MAIN +USB+KEY POWER BOARD	
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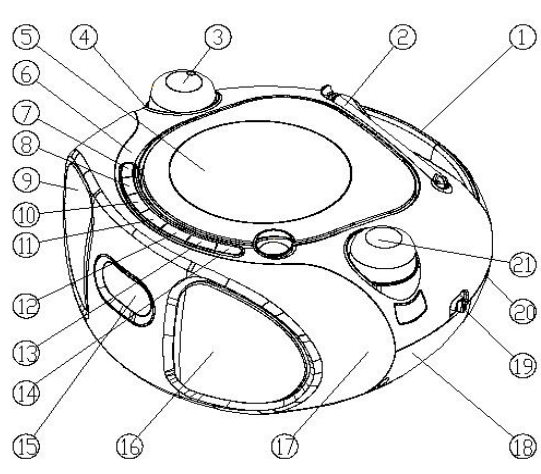
**CLASS 1
LASER PRODUCT**

3141 785 39520

Version 1.0



PHILIPS

Description	Pos.	Description	Pos.
	1	HANDLE	
	2	ANTENNA	
	3	VOLUME KNOB	
	4	DBB KNOB	
	5	CD DOOR	
	6	TOP CABINET	
	7	RANDOM KEY	
	8	REPT KEY	
	9	SPEAKER GRILLE(L)	
	10	PREVIOUS KEY	
	11	PLAY/PAUSE KEY	
	12	NEXT KEY	
	13	STOP KEY	
	14	PROG KEY	
	15	FRONT LENS	
	16	SPEAKER GRILLE(R)	
	17	FRONT CABINET	
	18	BOTTOM CABINET	
	19	FUNCTION KNOB	
	20	AUX JACK	
	21	TUNING KNOB	
Battery location: BOTTOM CABINET			
			

CABINET

Dimensions with Boxes (L x W x H): 281*261*144MM

Material: ABS / HIPS

Dimensions without Boxes (L x W x H): 261X245X125MM

Finishing: Spray

Weight (including packing):. 2KG

Unit in Master carton: N/A

Weight (excluding packing and batteries): 1.63KG

Units in Dealer carton: 1 set

INTERCONNECTION POSSIBILITIES

Pos.	Connection/Function	Connector type	Electrical data (input or R.O.P)
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			

ACCESSORIES :

		CD/MP3/FM/USB AZ385/05/12/96		SET SPECIFICATION	
	VER 1				
Prepared:		Supers:		10	Sh. 190
KT	Check:	DATE:	© PHILIPS Electronics Hong Kong Ltd., BU-PORABLE AUDIO		

REMARKS :										
General description:										1
LIFETIME : 5 YEARS (ACC. TO UAN-D1611)										2
PERFORMANCE CLASSES :										
	TUNER	SUPPLY, AMPLIFIER	SPEAKER BOXES	RECORDER	CLOCK	CD	DCC	TELEPHONE	REC. PLAYER	
I	x	x								3
II						x				4
III										5
SAFETY REQUIREMENTS: EN 60065 (IEC 65) CE ,										6
RADIATION, IMMUNITY REQUIREMENTS: (EMC) EN55013, .EN55020 , (Version 05/12/61 approbation CB only) EN61000-3-2:2006 EN61000-3-3:1995 (Version /61 approbation CB only)										7
CLIMATIC REQUIREMENTS: (acc. to UAN-D1590)										
All climates: -10 ☒ till +50 ☒ (Functional); Set has to be pre-conditioned for 2 hour, except CD function										8
For all measurements: 25 ☒										9
POWER SUPPLY:										
MAINS (AC) operation					DC (int. or ext.) operation / Backup Buffer					
Voltage selection:		See table below			Battery type: R14, UM2, C-cell x 6; nom.: 9V minimum operating voltage : 5V for CD / Tape 3.3V for TU					10
Selection:		See table below			Lifetime: CD ☒ 1.0 hours, TU ☒ 20 hours, (R14 ☒ ~ alkaline batteries)					11
Frequency:		See table below			External DC: No					12
POWER CONSUMPTION:										
Power off mode: ☒ ☒ ☒ typ.					Standby: <0.5W (power off mode)					13
Maximum: 15 w					Maximum:					14
General: Q and R according to production division rules : $Q \leq 1\%$ (Major), $Q \leq 4\%$ (Minor) Measured according to: $R \leq 3\%$ (CE52)										
DERIVED VERSIONS:									APPROBATION	15
Version	AC Voltage/ Frequency on typeplate	Safety Tolerance	Tuner							
/05 UK	230VAC 50HZ	+/-10%	FM,							
/12 Europe	230VAC 50HZ	+/-10%	FM,							
/61 Korea	220VAC 60HZ	+/-10%	FM							

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REMARKS: For operation and thermal stability test : 220/230/240Vac setting : 198Vac to 264Vac 120Vac setting : 99Vac to 140Vac dual voltage ac setting (120Vac / 230Vac) : 99Vac to 140Vac and 196Vac to 264Vac							16
TUNER PART							
TECHNICAL description:							
	AM	(circuitry)	FM	AM	(active components)	FM	
RF					KT0922		1
IF					1		2
Detector							3
Decoder							4
GENERAL part:							
WAVE RANGE			TOLERANCES		TUNING STEP		
							5
							6
FM (05/96/12/61 version)		87.5 –108MHZ		LOW : +0.3/-0.3MHZ HIGH: +0.4/-0.4MHZ			7
							8
							9
							10
AERIAL:							
			FM telescope : 430 mm				11
FM wire : N/A			Execution - N/A				12
INDICATORS:							
Pointer stroke:			Execution pointer:				13
Knob indication over:			Field Strength:				14
ELECTRICAL DATA:							
AM:	Nom.	limit	FM:	nom.	limit		
RATED OUTPUT POWER 10% THD 80%Mod 120dB	/	/	AM Suppression	/	/		15
			-3dB limiting point	12	18 dBf		16
Amplification reserve			Amplification reserve	2	+/-2 dB		17
AGC figure of merit			AFC holding range (average)				18
Distortion (RF 74 to 94 dBuV/m, m=80%)			Distortion (RF 32 to 72 dBuV, mono 100kHz, Stereo : 90% + 9%)	5	7 %		19
			Stereo -46dB quieting ; 120KHz LPF ; ^	40	44 dBuV		20
			Cross-talk (RF 1mV, 40kHz, 400Hz /1kHz / 5kHz)	21/25/18	18/20/15 dB		21
Strong S/N radio RF 94dBuV/m, m=80%			S/N radio (A-Weighted, RF 4mV)	53	50 dBA		22
Channel difference			Channel unbalance (250Hz to 6300Hz)	0	3 dB		23
Modulation hum (30% mod)			Modulation hum (22.5kHz dev) A-Weighted	44	40 dB		24
2, 3th IF harmonics rejection (RF 64 to 94dBuV/m)			8, 9, 10 th harmonics whistle	35	30 dB		25
Overall frequency response (-3dB)			Overall frequency response (+/- 3dB, 1kHz ref) - 50us - 12k	70 12k	80 Hz 10k Hz		26
Oscillator stop voltage 120V setting 230V setting			Oscillator stop voltage 120V setting 230V setting	90 190	96 Vac 192 Vac		27
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Search tuning sensitivity				/	N/A		Search tuning sensitivity				/	N/A		28
Search tuning stop accuracy				/	N/A		Search tuning stop accuracy				/	N/A		29
RF $\times 6$ to 1mV				/	N/A		- 20uV ~ 20mV				/	N/A		
RF $\times 1$ V/m				/			- 20mV ~ 500mV with step size = 50kH				/			
				/			- 20mV ~ 500mV with step size > 50kHz				/			
Search time of total tuning range				/	N/A		Search time of total tuning range				N/A		30	
IF				455KHZ	$\times 8$ kH		IF						31	
Frequency drift vs temp.				0.7 / 1000 * operating frequency		Frequency drift vs temp.				15KHZ/ $\pm$ $^{\circ}$ C 10KHZ/ $\pm$ $^{\circ}$ C 15KHZ/ $\pm$ $^{\circ}$ C		32		
-10 $\times$ to 10 $\times$														
10 $\times$ to 30 $\times$														
30 $\times$ o 50 $\times$														
Dial calibration				5	7%		Dial calibration				-1.2	+/- 1.5MHz	33	
							Stereo On point (Pilot deviation : 6kHz)				14	15.5 dBuV	34	
											Switching on – 6dB		35	
wave range		Sensitivity for 50mW			noise limited sensitivity (26dB)			Image rejection	IF rejection	large signal	Selectivity S9/300kHz	bandwidthB+3dB		
FM	nom.				13			21	55	130dBf	21		36	
	lim.				15			19	50	125dBf	19		37	
MW	nom.													
	lim.													
unit		$\times$ /m	$\times$ /	dBf	$\times$ /m	dBf	dB	dB	dB	mV/m	dB	kHz		
REMARKS:														

SUPPLY, AF-AMPLIFIER & LOUDSPEAKER PART:

TECHNICAL description:							
	Power supply		Tone Control		AF-Amplifier	Loudspeaker	
Active components					D8227		1
Passive components						2 X 1 W, 8ohm	2
							3
GENERAL part:							
Headphone type			None				4
Loudspeaker filter, high pass			None				5
Loudspeaker filter, low pass			None				6
Power stage protection			AC – NO; DC - NO; Temperature – YES; Short circuit – NO				7
Public address			No				8
INDICATORS:							
Output power or VU-meter			No : digits:				9
Frequency response			No : digits:				10
Low power (battery)			No				11
ELECTRICAL DATA: ± 20KHz LPF ± 1							
TONE/EQUALIZER/DBB							
			Balance control		No		12
			Mechanical noise (ISO 1996)				13
			Noise overall (ISO)				14
			Channel difference at 50mW				15
			Hum (vol.max.-20dB to vol.min.)		Limit: 260	nW	16
			Residual noise (volume minimum)		Limit: 350	nW	17

				SET SPECIFICATION	
	VER 1	CD/MP3/FM/USB AZ385/05/12/96			
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Input sens.: Nom.				650mV		mV		
for 50mW Limit:						mV		
Line outp.: Nom.						mV		
voltage Limit:						mV		
OUTPUT POWER:								
Mains operation:	D=10%	2 X 1W	☒		Limit: - 1dB			18
Battery operation:	D=10%	2 X 1W	☒		Limit: - 1dB			19
Music power (MPO) / Peak-MPO (PMPO):					(acc. to DIN45324)			20
Short term maximum output power:		-2*1.2W			(acc. to IEC 60268-15)			21
Long term maximum output power:		-			(acc. to IEC 60268-15)			22
Headphone output voltage/power:								23
Bandwidth FTC – 1dB at:		n.a.			(acc. to FTC/16/1/D/432)			24
Bandwidth DIN – 3dB at:		-			(acc. to IEC 60268-15)			25
Frequency response at Vol. max – 20dB:		typ. 60Hz to 16kHz	(☒dB)					26
DBB raise level		4db at 125hz vol max-20db			Disc SBC429 Track 12			
LOUDSPEAKER (output):								
Low pass crossover frequency:	-	kHz	tolerance:		Hz			27
High pass crossover frequency:	-	kHz	tolerance:		Hz			28
Short term maximum output power:	-	W (acc. to IEC 60268-15)						29
Long term maximum output power:	-	W (acc. to IEC 60268-15)						30
Frequency response at:	-	Hz			kHz			31
REMARKS:								32
27 : Measured in Tuner mode; 28: CD Mode.								

CD-PART: (SANYO DA11B3VF CD MECHANISM) (BALL type)

Technical description:					
	Input	Output	Motor/control	Logic control	1
Active components			SCA4720	Ali-M5677-ALAA	2
Passive components					3
	Signal processing	D/A converter	HF-preamplifier	Servoprocessor	4
Active components	CD: Ali-M5677-ALAA	CD: Ali-M5677-ALAA			5
Passive components					6
Indicators/Display/Keys:					
Display: LCD for Track No. display 3 Digit					7
Keys: Slide switches & tact switches					8
Playability: (acc. to AHR-82-Gbu-00-4201)					
	Limit	Typical	Testdisc		9
Wedge	600 ☒ h	900 ☒ h	TNO 7,9 of SBC 444A (7104 099 24990)		10
Eccentric	150 ☒ h	200 ☒ h	TNO 1,24 of 200 ☒ h disc (7104 099 24960)		11
Fingerprint	No audible defect		TNO 11 of Subchassis 8A		12
Black dot	500 ☒ h	600 ☒ h	TNO 13, 14 of SBC 444A (7104 099 24990)		13
Double black dot	No failure		TNO 9 of Subchassis 8A		14
Skew 0.6 deg, 8cm	No audible defect		TNO 1,6 of 0.6deg C, 8cm skew disc		15
Bad HF track	No audible defect		TNO 8 of Subchassis 8A		16
Heavy fingerprint	No track jumps/plops		TNO 10 of Subchassis 8A		17
Maximum diameter	No audio effect		Last TNO of Subchassis 8A		18
		CD/MP3/FM/USB AZ385/05/12/96		SET SPECIFICATION	
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Input sens.: Nom.			650mV		mV		
for 50mW Limit:					mV		
Line outp.: Nom.					mV		
voltage Limit:					mV		
OUTPUT POWER:							
Mains operation:	D=10%	2 X 1W	☒		Limit: - 1dB		18
Battery operation:	D=10%	2 X 1W	☒		Limit: - 1dB		19
Music power (MPO) / Peak-MPO (PMPO):					(acc. to DIN45324)		20
Short term maximum output power:		-2*1.2W			(acc. to IEC 60268-15)		21
Long term maximum output power:		-			(acc. to IEC 60268-15)		22
Headphone output voltage/power:							23
Bandwidth FTC – 1dB at:		n.a.			(acc. to FTC/16/1/D/432)		24
Bandwidth DIN – 3dB at:		-			(acc. to IEC 60268-15)		25
Frequency response at Vol. max – 20dB:		typ. 60Hz to 16kHz (☒dB)					26
DBB raise level		4db at125hz vol max-20db			Disc SBC429 Track 12		
LOUDSPEAKER (output):							
Low pass crossover frequency:	-	kHz		tolerance:	Hz		27
High pass crossover frequency:	-	kHz		tolerance:	Hz		28
Short term maximum output power:	-	W (acc. to IEC 60268-15)					29
Long term maximum output power:	-	W (acc. to IEC 60268-15)					30
Frequency response at:	-	Hz			kHz		31
REMARKS:							32
27 : Measured in Tuner mode; 28: CD Mode.							

CD-PART: (SANYO DA11B3VF CD MECHANISM) (BALL type)

Technical description:					
	Input	Output	Motor/control	Logic control	1
Active components			SCA4720	Ali-M5677-ALAA	2
Passive components					3
	Signal processing	D/A converter	HF-preamplifier	Servoprocessor	4
Active components	CD: Ali-M5677-ALAA	CD: Ali-M5677-ALAA			5
Passive components					6
Indicators/Display/Keys:					
Display: LCD for Track No. display 3 Digit					7
Keys: Slide switches & tact switches					8
Playability: (acc. to AHR-82-Gbu-00-4201)					
	Limit	Typical	Testdisc		9
Wedge	600 ☒n	900 ☒n	TNO 7,9 of SBC 444A (7104 099 24990)		10
Eccentric	150 ☒n	200 ☒n	TNO 1,24 of 200☒n disc (7104 099 24960)		11
Fingerprint	No audible defect		TNO 11 of Subchassis 8A		12
Black dot	500 ☒n	600 ☒n	TNO 13, 14 of SBC 444A (7104 099 24990)		13
Double black dot	No failure		TNO 9 of Subchassis 8A		14
Skew 0.6 deg, 8cm	No audible defect		TNO 1,6 of 0.6deg C, 8cm skew disc		15
Bad HF track	No audible defect		TNO 8 of Subchassis 8A		16
Heavy fingerprint	No track jumps/plops		TNO 10 of Subchassis 8A		17
Maximum diameter	No audio effect		Last TNO of Subchassis 8A		18

				SET SPECIFICATION		
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	CD-RW playability						
1	Fingerprint	"K" TNO 18		No audible disturbance			
2	Black dot	"K" 13, 17	um	800 400			
3	Low reflection	"L"		No audible disturbance			
4	High reflection	"M"		Startup			
MP3 playability : See specification on CD-DA MP3 - Data-format-check Remark :support ISO-9660, Joliet format and UDF 1.0 & 2.0							
1	File format check	Html file of "N"		File in non supported formats are skipped.			
2	Sample rate check	"N"		No audible disturbance			
3	Bitrate check 32,40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 250, 320 kbps, VBR (variable bit rate)	"N"		No audible disturbance			
4	Multisession	"O"		All titles accessible, no audible disturbance			
5	Iso9660	"N"		All titles accessible, no audible disturbance			
6	Playlist m3u			Not supported			
7	Id3 check	"N"		Text in display ok			
8	CD-Extra (1 audio session + 1 digitalsession)	"Q" Remark : selectable by mode button		No audible disturbance.			
9	Direct CD	"R"		No audible disturbance			
10	Mixed CD	"P"		No audible disturbance			
11	AAC-playback			Not supported			
12	WMA-playback			Not supported			
13	Max. titles / directories	"S" max. 350 titles and directories, avg. length of filename/foldername is 20 characters		All titles accessible, no audible disturbance.			

		CD/MP3/FM/USB AZ385/05/12/96		SET SPECIFICATION		
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USB-PART ELECTRICAL CHARACTERISTICS MEASUREMENT DATA SHEET

Item	Description	condition	Unit	Norminal	Limit		
1	max. Output current		mA	250	500		
2	Output Voltage		V	5	,+0.2/-0.01		
4	Frequency Response	100Hz-10K	dB		+/-6dB		
5	Distortion	1KHz	THD%		<3%		
6	S/N £PA-Weight£'	1KHz	dB	60	>50dB		
7	channel seperation	1KHz	dB	40	>30dB		
8	Working current		mA	130mA	<180		
9	charge current during play song		mA	0-200	>300		
10	output power		W	1	1		

USB Compatibility Test

Support MSC/MTP dual mode USB device .

Test requirement and method follow attached file as below:

"USB Direct
Compatibility tes

5

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[illegible]

2.0 SAFTETY INSTRUCTIONS

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet muni d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.
Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

ESD



NL WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op hetzelfde potentiaal.

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen identiek aan de gespecificeerde, worden toegepast.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisés les pièces de rechange identiques à celles spécifiées.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambi identici a quelli specificati.

"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."

Caution: These servicing instructions are for use by qualified service personnel only.
To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.



GB Warning !

Invisible laser radiation when open.
Avoid direct exposure to beam.

S Varning !

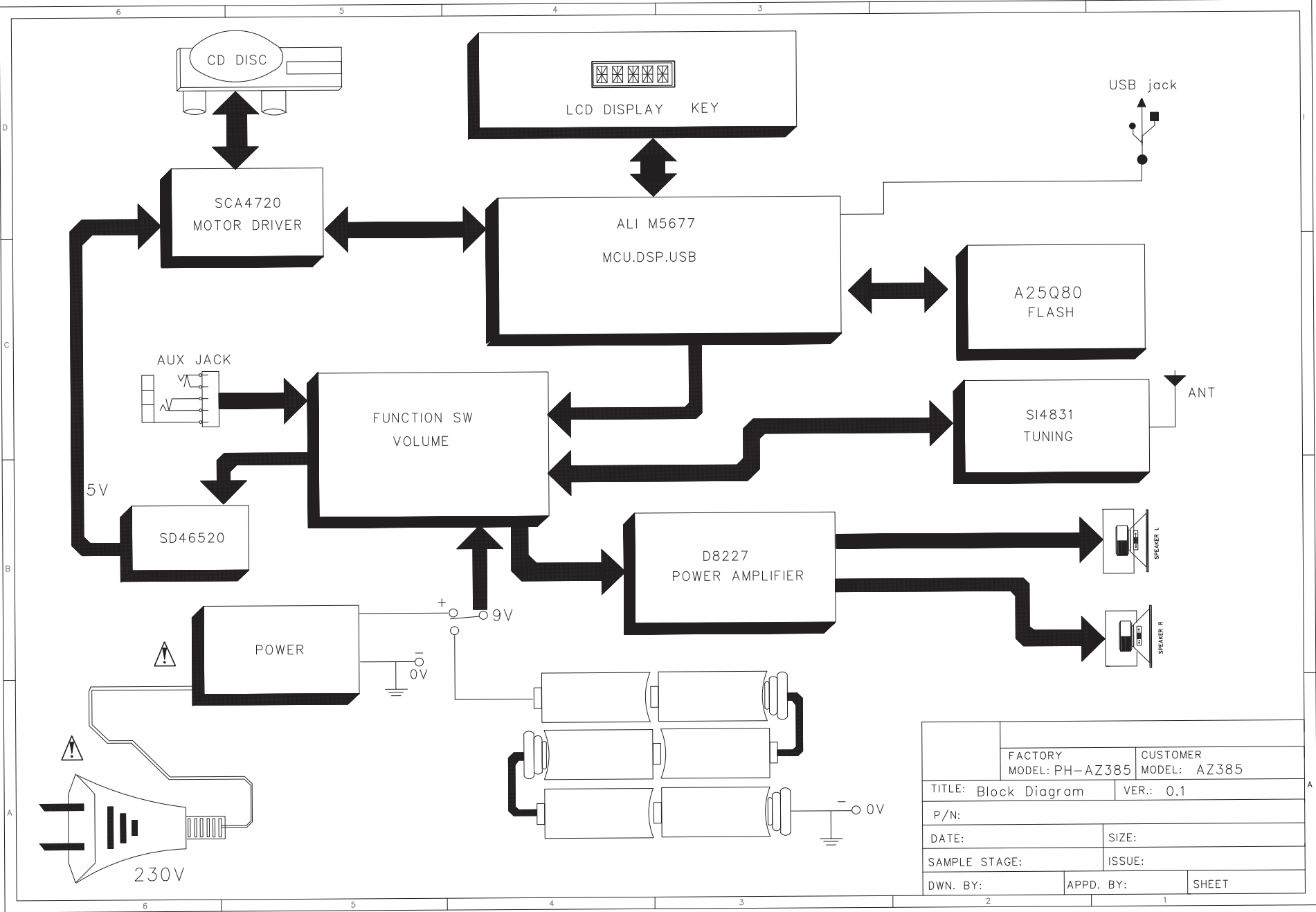
Osynlig laserstrålning när apparaten är öppnad och spårre är urkopplad. Betrakta ej strålen.

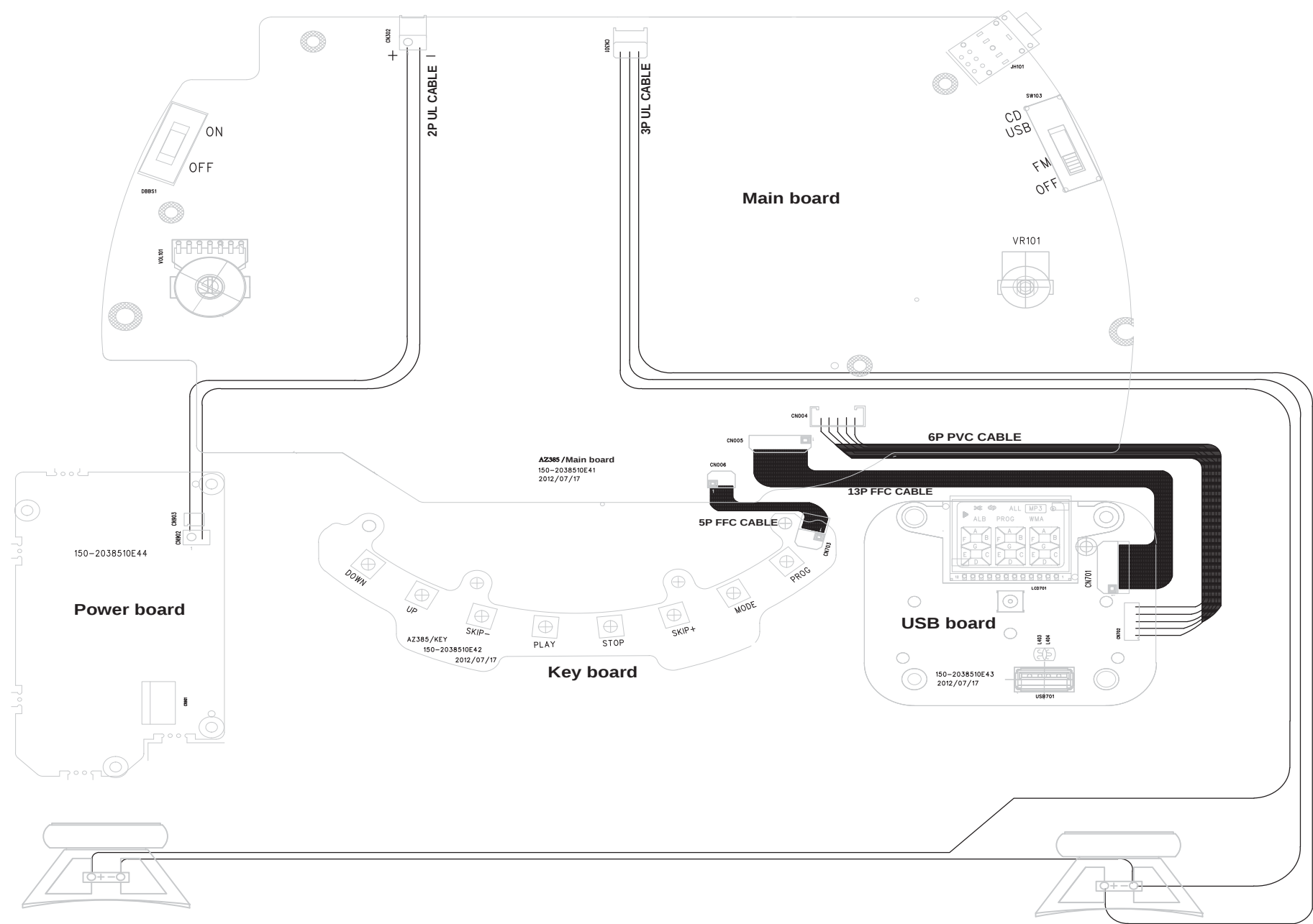
SF Varoitus !

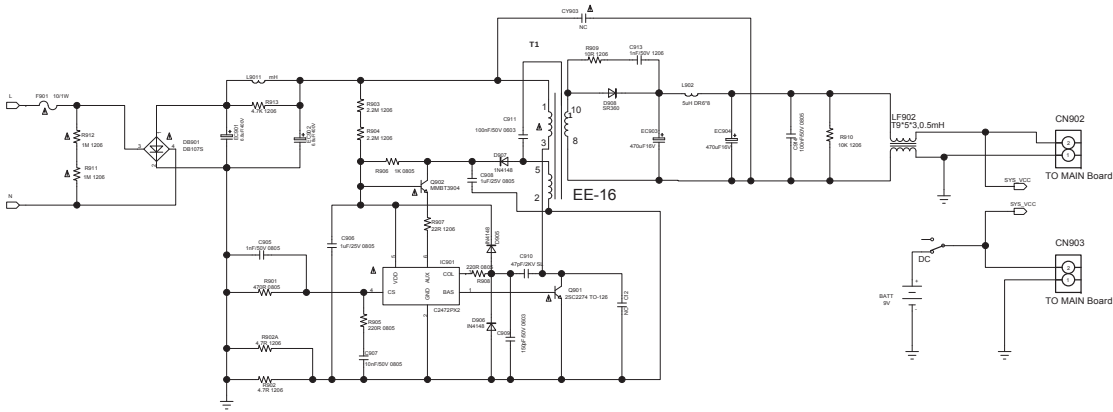
Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen !

DK Advarse !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.





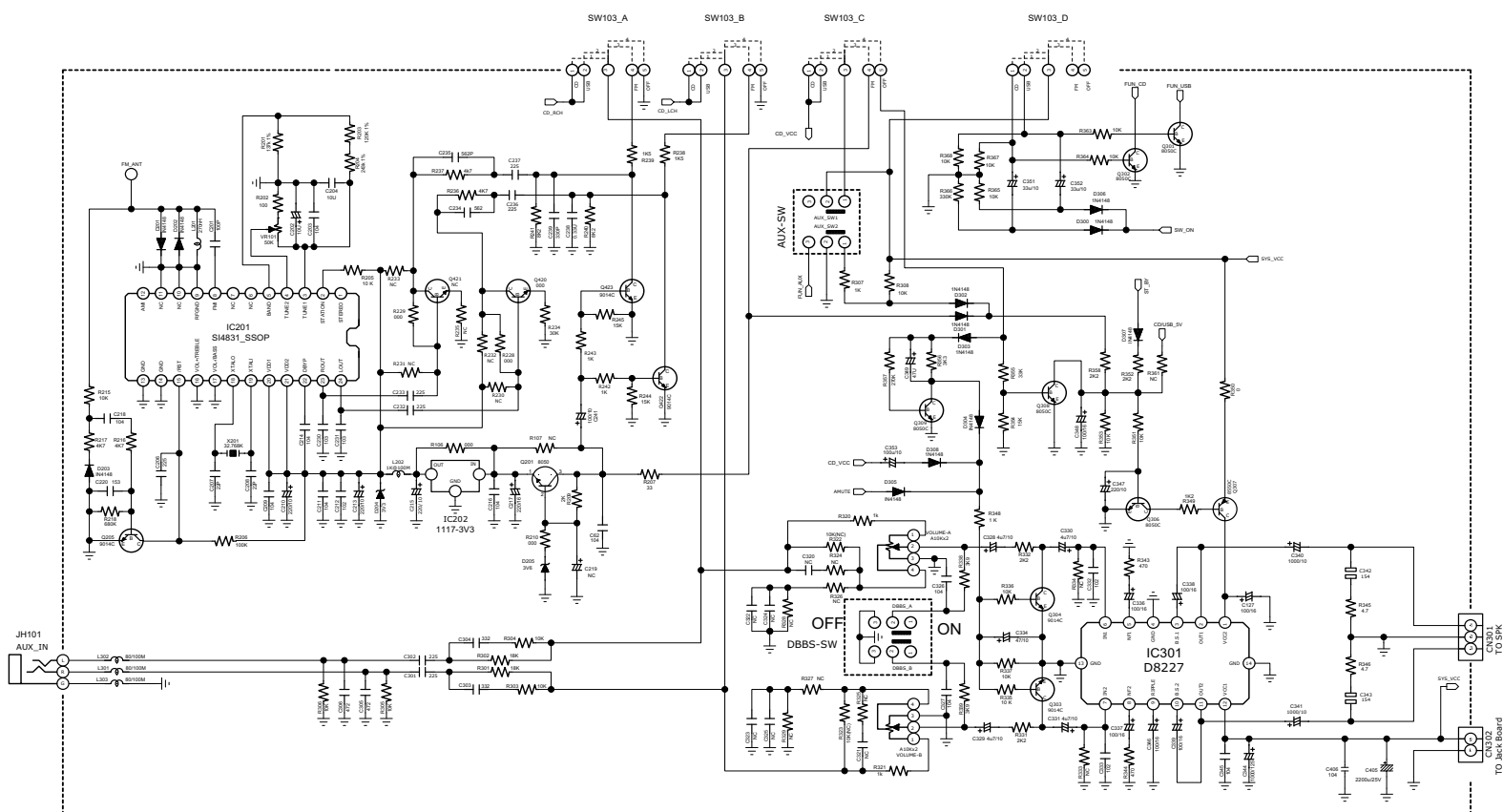


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 	SCALE	UNIT	DRAWN: li zhi wang		SCHEMATIC DIAGRAM							
	N / S	PAGE: 1 OF 2	CHECKED:	MODEL: AZ385								
				RADIO/AUDIO PART			REV: C					
HARBOUR LIGHT TECHNOLOGY LTD			APPROVED:		20	1		24	0		1	9

CIRCUIT DIAGRAM

4-2



Warning:

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SCALE

UNIT

DRAWN: li zhi wang

SCHEMATIC DIAGRAM

MODEL:	AZ385
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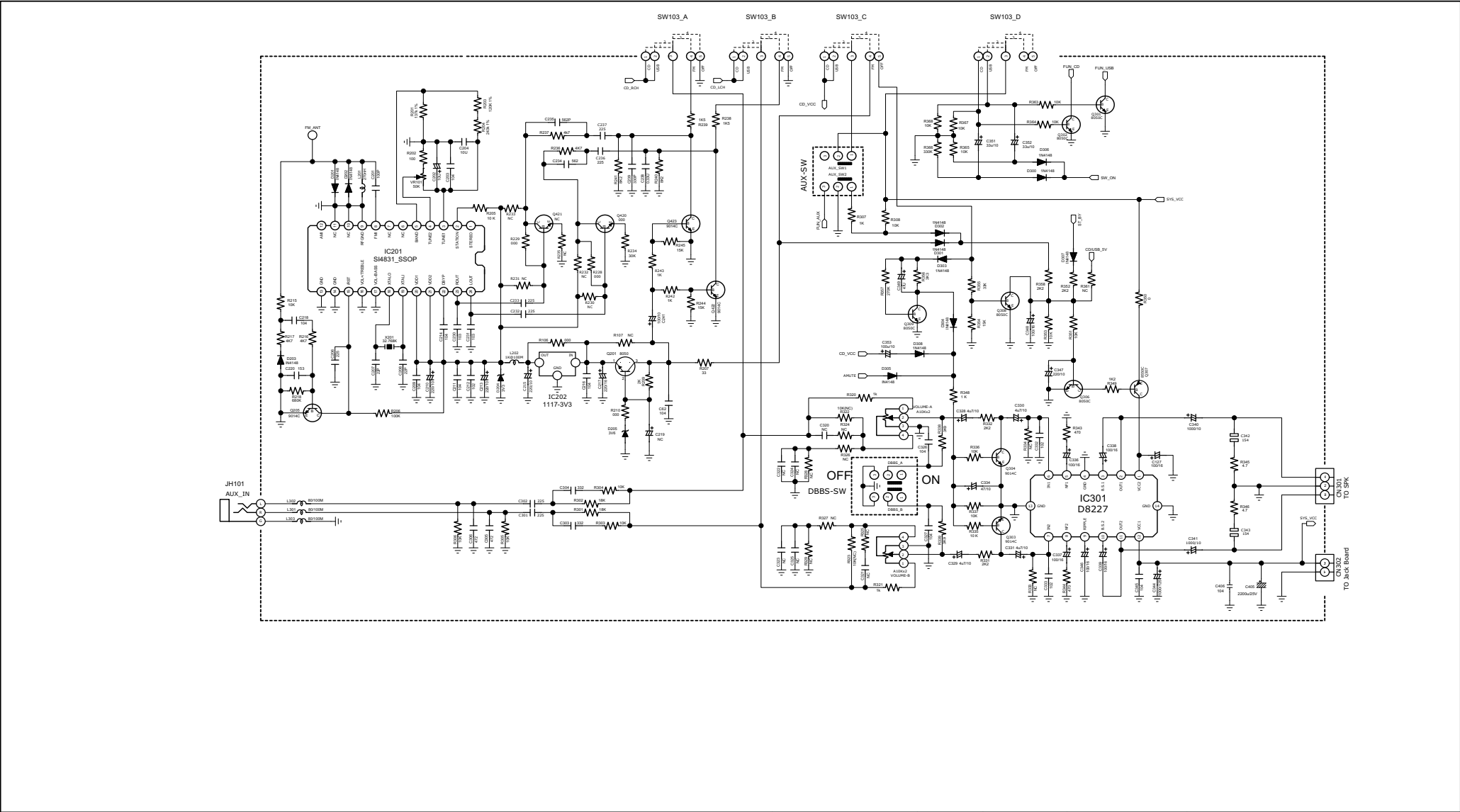
RADIO/AUDIO PART

REV: C

HARBOUR LIGHT TECHNOLOGY LTD

APPROVED:

	2	0	1	2	0	4	1
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		N / S	PAGE: 1 OF 2	CHECKED:	MODEL: AZ385									
					RADIO/AUDIO PART						REV: C			
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