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SERVICE MANUAL

AEP Model



Free service manuals Gratis schema's

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ST-JX520L

See RM-S520 service manual issued separately for supplied remote commander RM-S520.

SPECIFICATIONS

FM tuner section

Tuning range Antenna terminals 87.5 - 108 MHz 75 ohms unbalanced 300 ohms balanced

10.7 MHz

Intermediate	frequency

	(at 40 kHz deviation)
Sensitivity	at 46 dB quieting 17.3 dBf, AEP model 2µV (mono) G-AEP model 4µV (mono) 38.3 dBf, AEP model 22.5µV (stereo) G-AEP model 45µV (stereo)
Usable sensitivity	10.3 dBf,
Signal-to-noise ratio	77 dB (mono) 72 dB (stereo)
Harmonic distortion at 1 kHz	0.1% (mono) 0.25% (stereo)
Separation at 1 kHz	45 dB
Frequency response	40 Hz — 12.5 kHz +0.2 dB -0.6 dB 30 Hz — 15 kHz +0.2 dB -1.8 dB
Selectivity	at 400 kHz 67 dB

1.0 dB Capture ratio ST-JX520L AM suppression ratio

> AEP model: 55 dB G-AEP model: 65 dB ST-JX320L: 55 dB

ST-JX520L Image response ratio

AEP model: 45 dB G-AEP model: 80 dB

ST-JX320L: 45 dB

90 dB IF response ratio

Spurious response ratio ST-JX520L

> AEP model: 75 dB G-AEP model: 100 dB

ST-JX320L: 75dB

RF intermodulation ST-1X5201

> AEP model: 68 dB (IHF) G-AEP model: 74 dB (IHF)

ST-JX320L: 68 dB (IHF)

Output level/impedance at 75 kHz deviation 750 mV, 4.7 kilohms

- Continued on page 2 -

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

FM STEREO/FM-AM TUNER SONY





AM (MW/LW) tuner section

		AM (MW)	LW
Tuning ra	ange	531 — 1,602 kHz	153 kHz — 344 kHz
Antenna		Layout-free AM External antenn	
Intermedi	ate frequency	450 kHz	
Usable sensi-	Layout- free AM antenna	300μV/m (at 999 or 1,000 kHz)	700µV/m (at 230 kHz)
tivity	External antenna	30μV (at 999 or 1,000 kHz)	200μV (at 230 kHz)
Signal-to-	noise ratio	50 dB (50 m ³	V/m)
Harmonic	distortion	0.3% (at 50 mV/m	, 400 Hz)
Selectivity	/	35 dB	35 dB

General

Power requirements

Power consumption

Dimensions

Weight

System PLL quartz-locked digital

synthesizer system

FM stereo, FM/AM super-heterodyne tuner AEP model: 220V ac (or 240V ac adjustable by authorized Sony personnel), 50/60 Hz

18 watts

Approx. 430 x 80 x 270 mm (w/h/d) $(17 \times 31/8 \times 101/8 \text{ inches})$

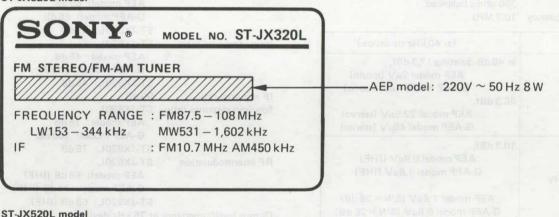
including projecting parts and controls

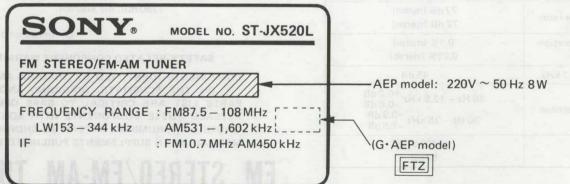
Approx. 3.3 kg (7 lbs 5 oz)

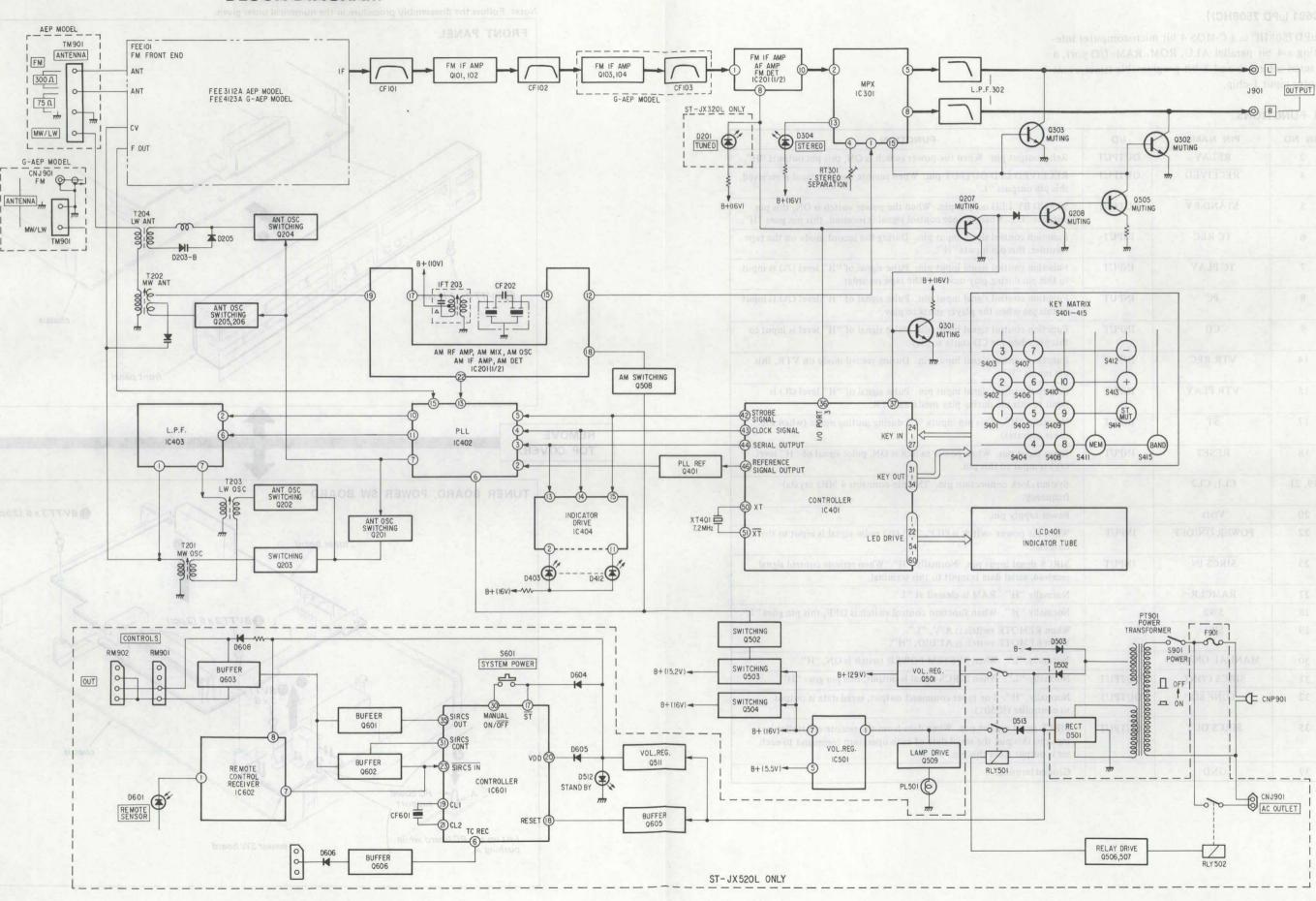
MODEL IDENTIFICATION

- Specification Label -

ST-JX320L model







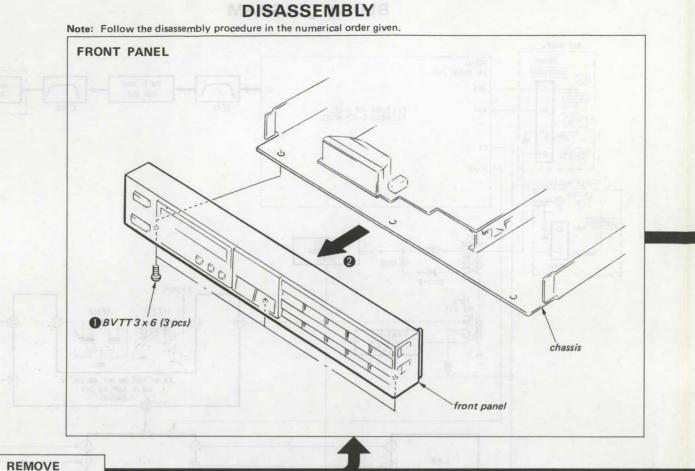
ST-JX 320L/JX 5 201

[IC601 (µPD 7508HC)]

μPD7508HC is a C-MOS 4 bit microcomputer integrating a 4 bit parallel ALU, ROM, RAM, I/O port, 8 bit serial interface and 8 bit programable timer/event counter input 1-chip.

PIN FUNCTIONS

PIN NO.	PIN NAME	1/0	FUNCTION
2	RELAY	OUTPUT	Relay output pin. When the power switch is ON, this pin outputs "H"
4	RECEIVED	OUTPUT	RECEIVED LED OUTPUT pin. When remote control signal is received this pin outputs "L".
5	STAND-BY	OUTPUT	STAND BY LED output pin. When the power switch is ON, this pin outputs "L". When remote control signal is received, this pin goes "H"
6	TC REC	INPUT	Function control signal input pin. During the record mode on the tape recorder, this pin inputs "H".
7	TC PLAY	INPUT	Function control signal input pin. Pulse signal of "H" level (A) is input to this pin during play mode on the tape recorder.
8	PC	INPUT	Function control signal input pin. Pulse signal of "H" level (Π) is input to this pin when the player starts to play.
9	CD	INPUT	Function control signal input pin. Pulse signal of "H" level is input to this pin when the CD starts to play.
14	VTR REC	INPUT	Function control signal input pin. During record mode on VTR, this pin inputs "H".
15	VTR PLAY	INPUT	Function control signal input pin. Pulse signal of "H" level (L) is input to this pin during play mode on VTR.
17	ST	INPUT	Normally "H". This pin inputs "L" during muting mode (when the tuner operates).
18	RESET	INPUT	Reset input pin. When power switch is ON, pulse signal of "H" level (Π) is input to this pin.
19, 21	CL1, CL2		System clock connection pin. This pin connects 4 MHz crystal frequency.
20	VDD		Power supply pin.
22	POWER ON/OFF	INPUT	When the power switch is OFF, "H" (A) pulse signal is input to this terminal.
23	SIRCS IN	INPUT	SIRCS signal input pin. Normally "H". When remote control signal received, serial data is input to this terminal.
27	RAMCLR		Normally "H". RAM is cleared at "L".
28	SW2	1019	Normally "H". When function control switch is OFF, this pin goes "L"
29	SW1	Marian Mile	When REMOTE switch is A/V, "L". When REMOTE switch is AUDIO, "H".
30	MANUAL ON/OFF	38	Normally "L". When SYSTEM POWER switch is ON, "H".
31	SIRCS CONT	OUTPUT	Normally "L". When SIRCS signal is output, this pin goes "H".
32	TUNE SO	OUTPUT	Normally "H". For tuner command output, serial data is output to controller (IC501).
35	SIRCS OUT	OUTPUT	SIRCS signal output pin. When data from the remote controller is input to this pin, the serial data of each operation command to each set is output from this pin.
39	GND	700	Ground terminal



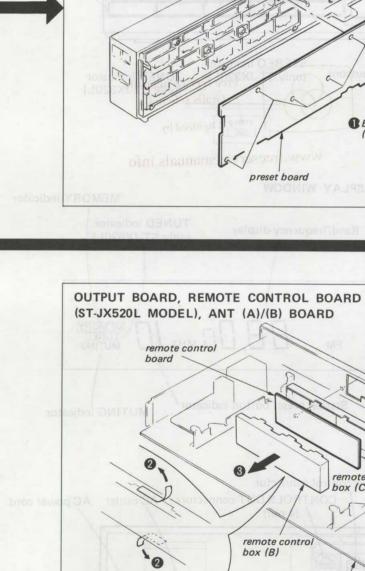
SECTION 2

TOP COVER.

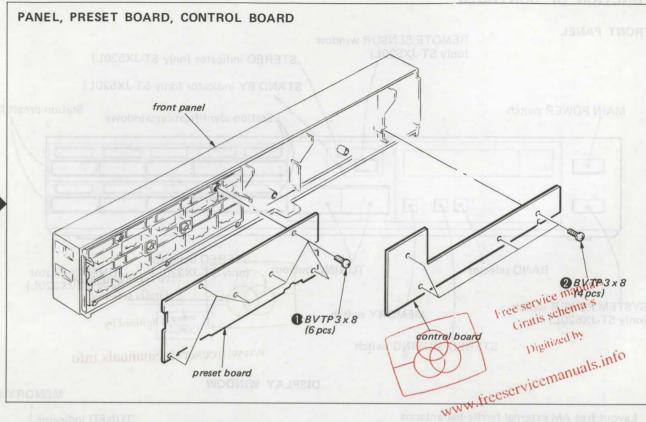
TUNER BOARD, POWER SW BOARD

A PC board support

Lift up the PC board while pushing A.



Remove tape in the direction of arrow.



1 BVTP3x8 (2pcs)

output board

ABVTP3x8

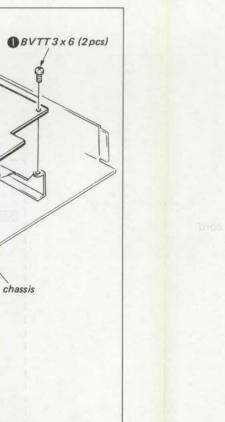
ST-JX320L

ST-JX-520L

G-AEP MODEL

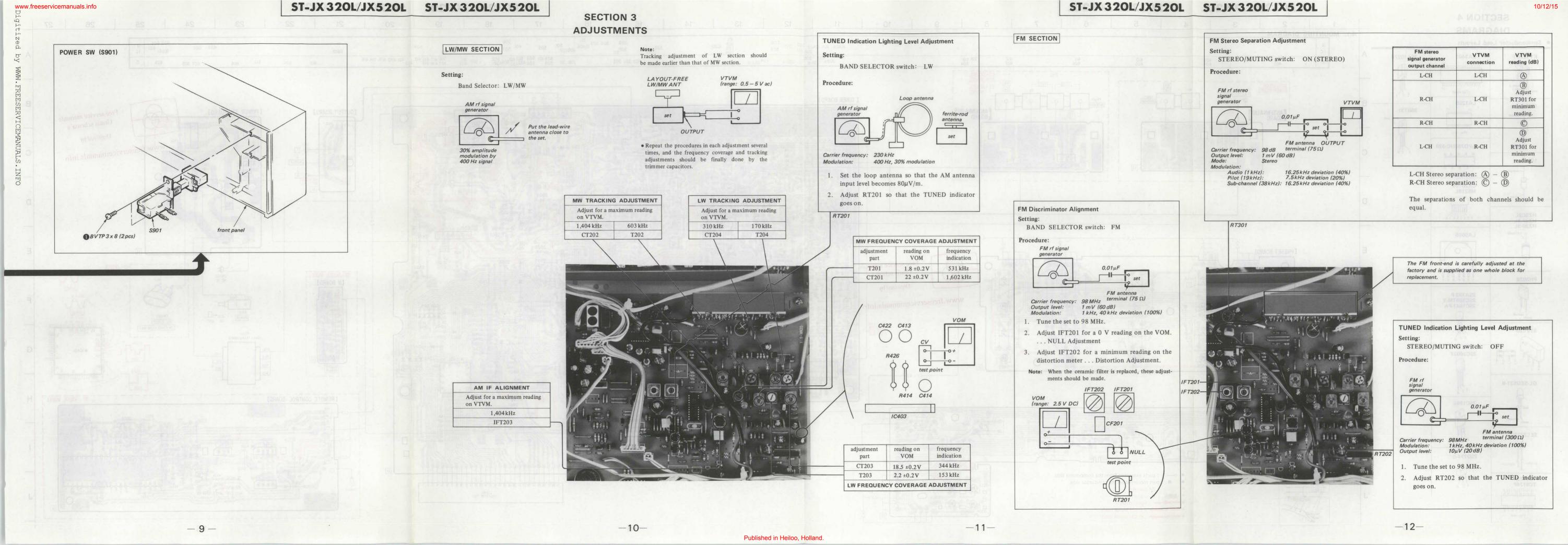
@BVTP3x8

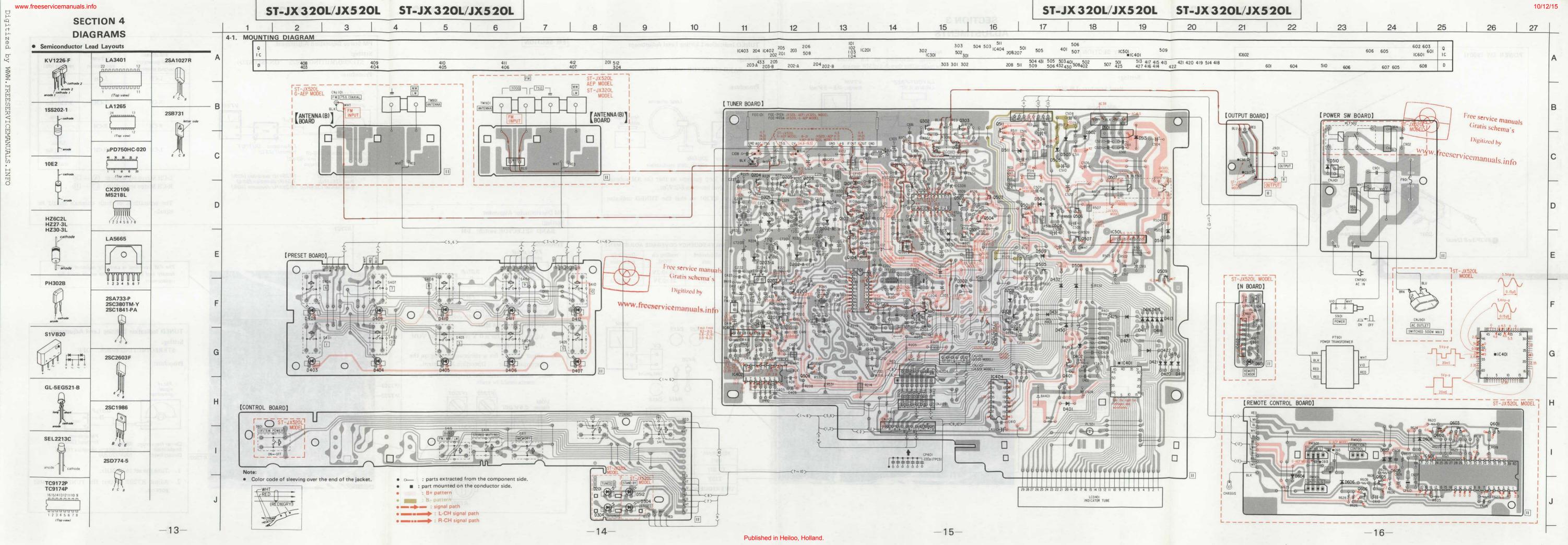
ST-JX520L: AEP MODEL 6 BVTP3x8

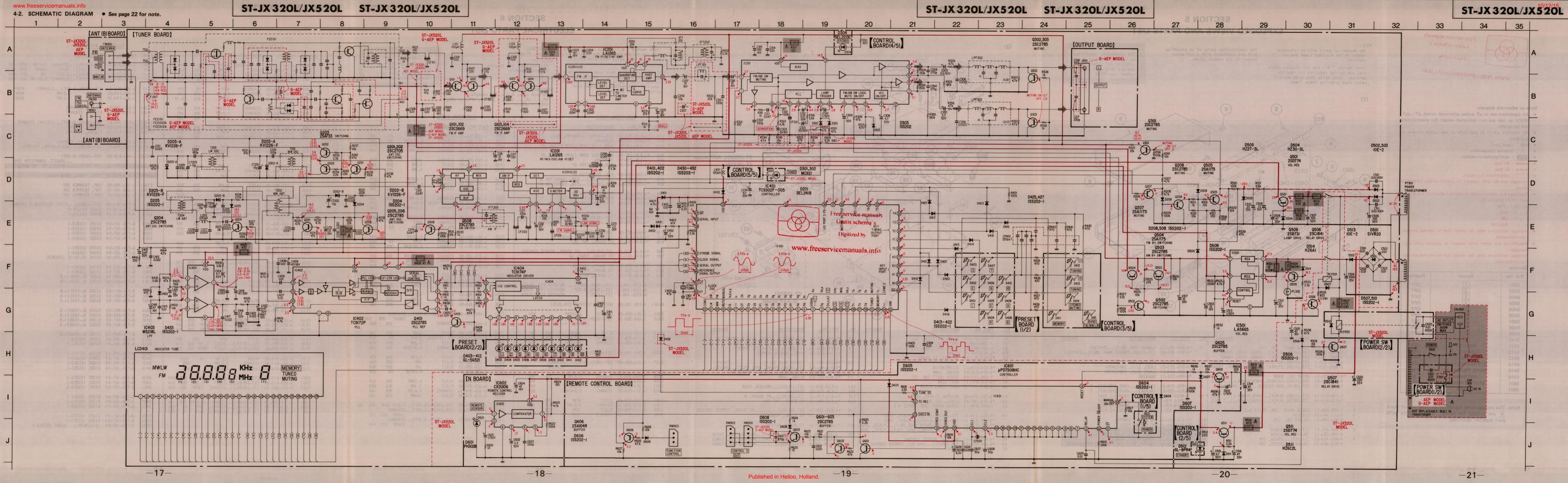


power SW board

①BVTT3x6(2pcs)







ELECTRICAL PARTS

Ref.No. Part No. Description

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Note on schematic diagram:

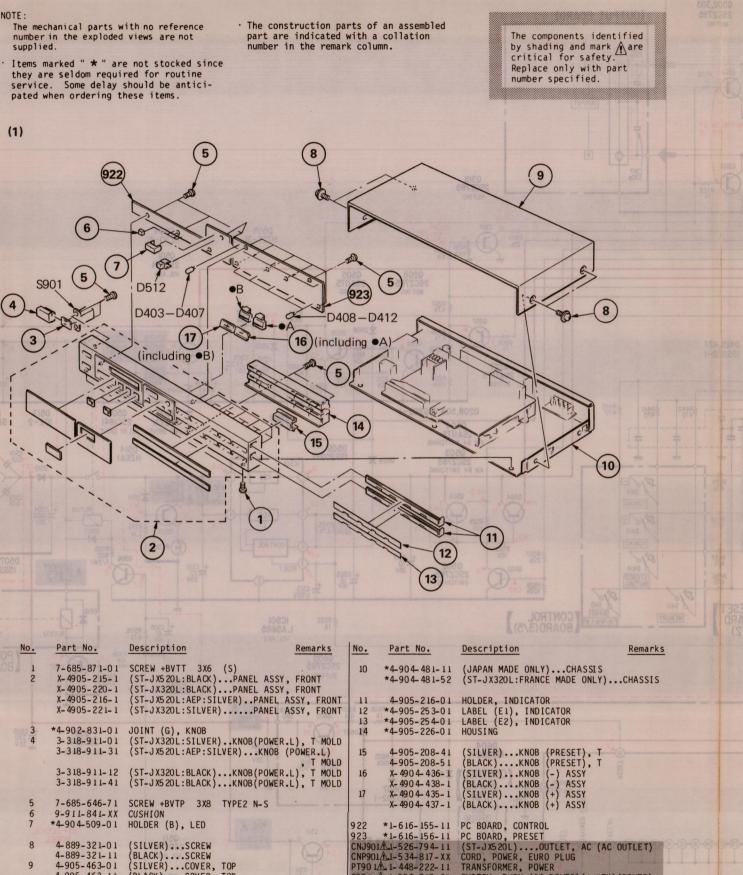
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise
- signal path.
- △ : internal component.
- monflammable resistor.
- : B+ bus. • === : B- bus.
- adjustment for repair. Voltages are dc with respect to ground unless otherwise
- Readings are taken under no-signal (detuned) conditions
- with VOM (50 k Ω /V). no mark: FM
- (): MW []: LW
- < > : AM/LW Voltage variations may be noted due to normal production tolerances.

tion tolerances.

- Waveforms are taken with respect to ground with oscil-Voltage variations may be noted due to normal produc-
- Switches

	Ref. No.	Switch	Position	
	S401	1	OFF	1
	S402	2	OFF	1
	S403	3	OFF	9
	S404	4	OFF	1
	S405	5	OFF	1
)	S406	6	OFF	
	S407	7	OFF	13/5
	S408	8	OFF	-
	S409	9	OFF	100
	S410	10	OFF	-
ı	S411	MEMORY	OFF	1
ı	S412	TUNING -	OFF	1
ľ	S413	TUNING +	OFF	
	S414	STEREO MUTING	OFF	
	S415	BAND FM/MW/LW	FM	1
	S416	ANTENNA	A	1
	S601	SYSTEM POWER	OFF	1
	S901	POWER	OFF	

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.



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		1-6-				
				1	No.	Par
rks					51 52	7-6 X-3
IS					53	7-6
					56	*3-71
					57 58	*4-9
					59 60	*3-3 *4-3
					61	3-71
					62 63	*4-30 7-60
					64	*4-90
						*4-90 *4-90
1	I				65	*4-90
					66	*4-90
						30p

CONTROL SOARD(4/5)			
905 905 51 917 920 70	925	TM101 64	
52	STORES OF THE ST	TM101 Supplied with CNJ101 ST-JX520L	
	(52)	G-AEP model	
Part No. Description Remarks 1 7-685-871-01 SCREW +BVTT 3X6 (S) 2 X-3701-069-0 FOOT ASSY, M.F. 3 7-685-881-01 SCREW +BVTT 4X8 (S) 4 *3-701-748-00 CLAMP	No. Part No. 68 *4-342-117-00 69 *4-886-921-00 70 9-911-838-XX 71 *3-701-030-00	Description Remarks (ST-JX520L)CASE, SHIELD (MAIN), R (ST-JX520L)LID, SHIELD CASE (ST-JX520L)CUSHION, RUBBER LABEL, SERIAL NUMBER	
5 *3-703-353-04 SUPPORT, PC BOARD 6 *4-904-514-01 ILLUMINATOR 7 *4-904-515-01 HOUSE, LAMP 8 7-685-752-04 SCREW +BVTT 3X8 (S) 9 *3-312-615-31 HEAT SINK	72 *4-90 4- 481-11 *4-90 4- 481-52 73 *4-905-259-01 74 *4-90 4-507-01	(JAPAN MADE ONLY)	
0 *4-363-147-11 HEAT SINK, H.PIN 1 3-703-244-00 BUSHING (2104), CORD 2 *4-302-759-00 LABEL, SERIAL NUMBER 3 7-685-646-71 SCREW +BVTP 3X8 TYPE2 N-S	901 1-533-183-11 905 1-535-416-00 917 *1-611-717-11 918 *1-616-154-11 919 *1-616-152-11	(ST-JX520L)HOLDER, FUSE TERMINAL (ST-JX520L)PC BOARD, N PC BOARD, ANT (B) (ST-JX520L)PC BOARD, REMOTE CONTROL	
4 *4-905-238-21 (ST-JX520L:AEP)PLATE, JACK *4-905-238-31 (ST-JX520L:G-AEP)PLATE, JACK *4-905-238-51 (ST-JX320L:JAPAN MADE ONLY)PLATE, JACK	920 *1-616-153-11 924 *1-616-157-11	PC BOARD, POWER SW PC BOARD, OUTPUT	
*4-905-238-61 (ST-JX320L:FRANCE MADE ONLY)PLATE, JACK *4-907-614-01 BOX (B), REMOTE CONTROL *4-905-256-01 (ST-JX520L)BOX (C), REMOTE CONTROL *4-905-255-01 FRAME	925 A-4335-445-A A-4335-446-A A-4335-448-A	(ST-JX520L:AEP)MOUNTED PCB, TUNER (ST-JX520L:G-AEP)MOUNTED PCB, TUNER (ST-JX320L)MOUNTED PCB, TUNER	e crion

	such as a stere cal circuit par			COILS		COLUMN TO THE PARTY OF THE PART		ni ni	umber speci	fied.			
	citors and resi				: mH, UH	: µп							
circ	uits may be omi	tted.			ONDUCTORS		CXX						
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					: μ P D		PA, UPC:	ирс,					
				OI D	рго	OURS							
	\$ CON	70007					3300 000	10 7 10kg					
	ELECTRIC	CAL PARTS					ELECTRIC	CAL PARTS					
.No.	Part No.	Description				Ref.No.	Part No.	Description					
	Turo not	<u>beset (peron</u>				Ker .iio.	raic no.	Description					
01	1-533-183-11	(ST-JX520L).	HOLDER, F	USE		C207	1-123-356-00	ELECT	10MF	20%	16V		
02	*1-535-117-00	TERMINAL				C208	1-162-305-31	CERAMIC	0.0068MF	30%	16V		
103	*1-535-139-00	BASE POST 191	MM (10MM PI	TCH) 2P		C209	1-108-583-00	MYLAR	0.015MF	5%	50V		
04	*1-535-139-00	BASE POST 22	MM / 10MM DT	TCH) 2D		C210	1-162-306-31	CERAMIC	0.01MF	30%	16V		
05	1-535-416-00	TERMINAL	rin (10rin F1	ion) Zr		C211	1-162-282-31	CERAMIC	100PF	10%	50V		
06	*1-560-060-00	PIN, CONNECTO	OR 2P			C212	1-123-369-00	ELECT	4.7 MF	20%	50V		
		XXX WILLIAM				C213	1-123-382-00	ELECT	3.3MF	20%	50V		
07	*1-560-063-00	PIN, CONNECT				TAI MA							
08	1-560-603-00	(ST-JX320L).				C214	1-101-006-00	CERAMIC	0.047MF		50V		
09	*1-560-605-00	(ST-JX520L).	PIN, CONN	ECTOR 6P	[2]	C2 15	1-101-006-00	CERAMIC	0.047 MF	000	50V		
10	*1-560-606-00	PIN, CONNECTO	OP 7P			C216	1-123-356-00	ELECT	10 MF	20%	16V		
11	*1-560-606-00	PIN, CONNECTO				C217	1-162-306-31	CERAMIC	0.01MF	30%	16V		
12	*1-560-608-00	PIN, CONNECTO				C219	1- 10 4-070-00	POLYSTYRENE	5 10PF	5%	50V		
						C220	1- 10 1-005-00	CERAMIC	0.022MF	30300	50V		
13	*1-560-708-00	(ST-JX520L).				TOTAL							
14	*1-560-709-00	(ST-JX520L).				C221	1-101-005-00	CERAMIC	0.022MF		50V		
15	*1-562-250-00	(ST-JX520L).	SOCKET, C	ONNECTOR	1 5P	C222	1-102-860-00	CERAMIC	68PF	5%	50V		
16	*1-562-327-00	SOCKET, CONNI	ECTOD 3D			C224	1- 10 3-707-00	POLYSTYRENE	180PF	5%	50V		
17	*1-611-717-11	(ST-JX520L).	PC BOARD	N		C225	1- 10 1-005-00	CERAMIC	0.022MF		50V		
18	*1-616-154-11	PC BOARD, AN		-		C226	1- 10 2-95 1-00	CERAMIC	15PF	5%	50V	-	
			,			C227	1-162-301-31	CERAMIC	0.00 15 MF	30%	167		
19	*1-616-152-11	(ST-JX520L).		REMOTE	CONTROL	-							-
20	*1-616-153-11	PC BOARD, POI	WER SW			C228	1-102-120-00	CERAMIC	0.00 18MF	10%	50V		
22	+1 616 155 11	DC BOARD CO	NTDOL			C229	1-101-005-00	CERAMIC	0.022MF		50V		
23	*1-616-155-11 *1-616-156-11	PC BOARD, COM				C230	1- 10 1-005-00	CERAMIC	0.022MF		50V		
24	*1-616-157-11	PC BOARD, OUT				C231	1-123-357-00	ELECT	22MF	20%	35 V		
			10			C232	1-101-006-00	CERAMIC	0.047 MF	20%	50V		
25	A-4335-445-A	(ST-JX520L:AE				C233	1-123-356-00	ELECT	10MF	20%	16V		
	A-4335-446-A	(ST-JX520L:G-						w a	60			m 21	
	A-4335-448-A	(ST-JX320L).	MOUI	NTED PCB	, TUNER	C234	1-123-369-00	ELECT	4.7 MF	20%	50V	- H	
A 40 1	1-528-120-00	BATTERY, LITH	LILIM (CD 20	25 \		C235	1-123-382-00	ELECT	3.3MF	20%	50V		
H401	1-520-120-00	DATIERT, LITT	110M (CK-20)	25)		C236	1- 123- 356-00	ELECT	10MF	20%	16V		
101	1-101-005-00	CERAMIC	0.022MF		50V	C30 1	1-162-286-31	(ST-JX5 20L:0	G-AEP)CE	RAMIC			
102	1-162-306-31	(ST-JX520L:AE		L) -0-		-0-0-0	7	(0,000000000000000000000000000000000000		OPF 109	% 50V	10402	
		CEF	RAMIC 0.01	MF 30%	16V	C302	1-162-288-31	CERAMIC	330PF	10%	50V		
							8SAR & +091 +		HIR JUN			338	
103	1-123-333-00	ELECT	100MF	20%	16V	C303	1-123-356-00	ELECT	10MF	20%	16V		
104	1-162-306-31 1-101-005-00	CERAMIC CERAMIC	0.01MF 0.022MF	30%	16V 50V	C304	1-103-711-00	POLYSTYRENE	270PF	5%	50V		
103	1-101-005-00	CERAPIC	0.022MF		301	C305 C306	1- 123- 382-00 1- 162- 302- 31	CERAMIC	3.3MF 0.0022MF	20% 30%	50V 16V		
106	1-162-306-31	(ST-J X5 20L:G-	AEP)CER	AMIC		0300	1-102-302-31	CLKAPIC	0.0022111	30 %	100		
		NAME OF THE PERSON OF THE PERS	0.0		% 16V	C308	1-123-369-00	ELECT	4.7 MF	20%	50V		
107	1-101-005-00	(ST-JX520L:G-	-AEP) CERA	AMIC		C309	1-123-380-00	ELECT	1MF	20%	50V		
			0.03	22MF	50V	C310	1-123-380-00	ELECT	1MF	20%	50V		
108	1 162 206 21	CEDAMIC	0.01MF	30%	161	C311	1-108-595-00	MYLAR	0.047 MF	5%	50V		
108	1- 162- 306- 31 1- 101-005-00	CERAMIC	0.01MF 0.022MF	30%	16V 50V	C312	1- 123- 608-00	ELECT	0.22MF	20.9	50V		
201	1-101-006-00	CERAMIC	0.022MF		50V	C312	1-123-008-00	ELECT	3.3MF	20%	50V 50V		
202	1- 10 1-006-00	CERAMIC	0.047MF		50V	C314	1-162-306-31	CERAMIC	0.01MF	30%	167		
					SE I	C315	1-123-333-00	ELECT	100MF	20%	16V		
203	1-123-332-00	ELECT	47 MF	20%	16V	The same							
204	1-162-306-31	CERAMIC	0.0 1MF	30%	16V	C316	1-123-356-00	(ST-JX520L:0			20%	16V	
205 206	1- 123- 356-00 1- 162- 211- 31	CERAMIC	10 MF 33PF	20%	16V 50V	C317	1-123-288-31	(ST-JX520L:0			FOW		
200	1-102-211-31	OZNAHIO	3311	5%	301	C318	1_123_288_31	(ST1X5.201 · 0		PF 10%	501		

SECTION 6

ELECTRICAL PARTS LIST

· All resistors are in ohms.

RESISTORS

· F : nonflammable

· Items marked " * " are not stocked since CAPACITORS: they are seldom required for routine MF:μF, PF:μμF.

service. Some delay should be antici-

· If there are two or more same circuitsin a

set such as a stereophonic machine, only COILS

pated when ordering these items.

The components identified by shading and mark A are critical for safety. Replace only with part

- HET THE		500011701011				NO. THOU		The state of the s
C35 4	1-103-711-00	POLYSTYRENE	270PF	5%	50V	C608	1-162-306-31	(ST-JX520L).
C355		ELECT	3.3MF	20%	50V	C609	1-123-661-00	(ST-JX520L).
C356		CERAMIC	0.0022M		16V	C6 10	1-123-380-00	(ST-J X5 20L).
C401		CERAMIC	47 PF	5%	50V	C612	1-162-294-31	(ST-JX520L).
0401	1-102-032-00	CERAMIC	4/ 77	3/0	304	COTZ	1-102-294-31	(31-0 \3201).
C40.2	1 102 052 00	CEDAMIC	47 PF	Ed	50V	0612	1 162 200 11	/CT 145 301 .C
C402		CERAMIC		5%		C613	1-162-290-11	(ST-JX520L:G
C403		CERAMIC	0.01MF	30%	16V	C901	1-161-744-00	CERAMIC
C404	1-123-298-00	ELECT	470MF	20%	6.3V	C902	1-161-744-00	CERAMIC
			300M		干	05.0.		1. 9 4.00
C405		CERAMIC	0.01MF	30%	16V	CF 10 1	1-527-344-91	FILTER, CERA
C406		CERAMIC	0.01MF	30%	16V	CF 102	1-527-344-91	FILTER, CERA
C 407	1-162-306-31	CERAMIC	0.01MF	30%	16V	101233		
						CF 103	1-527-344-91	(ST-J X5 20L:G
C408	1-162-306-31	CERAMIC	0.0 1MF	30%	16V	CF201	1-527-981-00	FILTER, CERA
C409	1-123-332-00	ELECT	47 MF	20%	16V	CF202	1-527-937-00	FILTER, CERA
C410	1-162-306-31	CERAMIC	0.01MF	30%	16V			
						CF301	1-567-250-11	OSCILLATOR,
C411	1-123-356-00	ELECT	10MF	20%	16V	CF601	1-567-192-11	(ST-JX520L).
C412	1- 10 1-005-00	CERAMIC	0.022MF		50V	2000 July 1		
C413		ELECT	0.47 MF	20%	50V	CNJ 10 1	1-561-919-00	(ST-JX520L:G-
				So gnero				,
C414	1-123-369-00	ELECT	4.7 MF	20%	50V	A CN.1901	1-526-794-11	(ST-JX520L).
C415		CERAMIC	0.01MF	30%	16V	Z134 CHO90 1	1-320-134-11	(31-0,3201).
C415		ELECT	47 MF	20%	16V	A CNDOOL	1-534-817-XX	CORD, POWER,
6410	1-123-332-00	ELECT	4/ 191	20%	104	Zib CNF901	1-334-01/- 1	CURD, PUWER,
C418	1-123-381-00	ELECT	2.2MF	20%	50V	CTOOL	1 141 100 00	CAD TOTAMED
						CT201	1-141-180-00	CAP, TRIMMER
C419		ELECT	47 MF	20%	35 V	CT203	1-141-180-00	CAP, TRIMMER
C420	1- 10 1-005-00	CERAMIC	0.022MF		50V	CT204	1-141-180-00	CAP, TRIMMER
		1			MC 9	6090		
C421		ELECT	22MF	20%	35 V	D20 1	8-7 19-30 1-48	(ST-JX320L).
C422		ELECT	0.47 MF	20%	50V	D202	8-7 19-9 12-28	DIODE KV 1226
C423	1- 10 1-005-00	CERAMIC	0.022MF		50V	D203	8-7 19-9 12-28	DIODE KV 1226
						PUSU		
C424	1-162-306-31	CERAMIC	0.01MF	30%	16V	D204	8-7 19-107-94	DIODE 1SS202
C432	1-123-380-00	ELECT	1MF	20%	50V	D205	8-7 19-107-94	DIODE 1SS202
C501	1-101-004-00	CERAMIC	0.01MF		50V	D208	8-7 19-107-94	DIODE 1SS202
						D30 1	8-7 19 - 107 - 94	DIODE 1SS202-
C502	1-101-004-00	CERAMIC	0.0 1MF		50V			
C503	1-123-356-00	ELECT	10MF	20%	16V	D302	8-7 19-107-94	DIODE 1SS202
C504		ELECT	1000MF	20%	35 V	D303	8-7 19 - 107 - 94	DIODE 1SS202-
						D304	8-7-19-300-82	DIODE SEL221
C505	1-123-332-00	(ST-JX520L).	FLECT	47 MF 20%	16V	2000 0004 5	0-713-300-02	DIOUL SELECT
C506		ELECT.	100MF	20%	50V	D40 1	8-7 19 - 107 - 9 4	DIODE 1SS202-
C507	1-123-360-00	ELECT	100 MF	20%	50V	D402	8-7 19 - 107 - 94	DIODE 155202-
0307	1-125-500-00	LLLOI	100111	20%	301	D403	8-7 19-907-92	DIODE GL-5EG
C508	1-123-357-00	ELECT	22MF	20%	50V			
C509	1-123-359-00	ELECT	47 MF	20%	35 V	D404	8-7 19-907-92	DIODE GL-5EG
						0.405	0 710 007 00	DIODE 01 FE0
C5 10	1- 123- 357-00	ELECT	22MF	20%	35 V	D405	8-7 19-907-92	DIODE GL-5EGS
05.11	1 106 106 00	MVI AD	0 0 145	ra l	1004	D406	8-7 19-907-92	DIODE GL-5EG
C5 11		MYLAR	0.01MF	5%	100V	D407	8-7 19-907-92	DIODE GL-5EG
C5 12		ELECT	22MF	20%	35 V	一 40元		
C5 13	1-123-380-00	ELECT	1MF	20%	50V	D408	8-7 19-907-92	DIODE GL-5EG
	01102	# \$500T VOET	7183 L		10-5.5	D409	8-7 19-907-92	DIODE GL-5EGS
C5 14		(ST-JX520L).		47 MF 20%	35 V	D410	8-7 19-907-92	DIODE GL-5EG
C5 15		(ST-JX520L).		47 MF 20%	16V	D411	8-7 19-907-92	DIODE GL-5EGS
C5 16	1-123-359-00	(ST-JX520L).	ELECT	47 MF 20%	35 V	IRICAN		
						D412	8-7 19-907-92	DIODE GL-5EG
C5 17	1-123-356-00	ELECT	10 MF	20%	35 V	D413	8-7 19-107-94	DIODE 1SS202-
C5 19	1-123-369-00	(ST-JX520L).		4.7 MF 20%	50V	D414	8-7 19 - 107 - 94	DIODE 1SS202-
C5 20	1-123-362-00	(ST-JX520L).	ELECT	330MF 20%	35 V			
						D415	8-7 19-107-94	DIODE 1SS202-
C521	1-106-196-00	MYLAR	0.01MF	5% 10	OV	D416	8-7 19-107-94	DIODE 155202-
C5 22		CERAMIC	0.01MF	50		D417	8-7 19-107-94	DIODE 1SS202-
C5 23		CERAMIC	0.0 1MF	50		D418	8-7 19-107-94	DIODE 1SS202-
0020	CHART	OLIVIII 10	0.02.	-		0110	0-7 25-207-54	DIODE 100E0E
C60 1	1-123-611-00	(ST-JX520L).	FLECT	1MF 2	0% 50V	D419	8-7 19-107-94	DIODE 1SS202-
C60 2		(ST-JX520L).			0% 50V	D420	8-7 19 - 107 - 9 4	DIODE 155202-
C603		(ST-JX520L).				D421	8-7 19-107-94	DIODE 155202-
0003	1-102-200-31	(31-0x320L).	CERAMIC	, 330FF I	0% 50V	0421	0-/13-10/-94	DIODE 133202-
CEDA	1 122 021 00	CT IVE OOL	FIFET	ATME	00 164	D433	0 7 10 107 04	DIODE 10000
C60 4		(ST-JX520L).			0% 16V	D422	8-7 19 - 107 - 94	DIODE 188202-
C605	1-162-306-31	(ST-JX520L).			0% 16V	D425	8-719-107-94	DIODE 155202-
C606	1-102-517-00	(ST-JX520L).			% 50V	D427	8-7 19 - 107 - 9 4	DIODE 155202-
C607	1- 10 2-5 17-00	(ST-JX520L).	CERAMI	30PF 5	% 50V	0430	0 710 107 04	DIODE 100000
						D430	8-719-107-94	DIODE 1SS202-
						D431	8-7 19 - 107 - 9 4	DIODE 1SS202-
					ASSESSMENT OF THE PARTY OF THE	11/122		I T I VE 201
						D432	8-7 19 - 107 - 9 4	(ST-JX520L).

ELECTRICAL PARTS Ref.No. Part No. Description

C608	1-162-306-31	(ST-JX520L)CERAMIC 0.01MF 30%
C609	1-123-661-00	(ST-JX520L)ELECT 100MF 20%
C6 10	1-123-380-00	(ST-J X5 20L)ELECT 1MF 20%
C612	1-162-294-31	(ST-JX520L)CERAMIC 0.001MF 10%
0012	1 101 101	(31-0/3202) ***********************************
C613	1-162-290-11	(ST-JX520L:G-AEP)CERAMIC 470
C901	1-161-744-00	CERAMIC 0.01MF 400
C902	1-161-744-00	CERAMIC 0.0 1MF 400
0302	1-101-74-00	CERAMIC 0.0 IM
CF 10 1	1-527-344-91	FILTER, CERAMIC
CF 10 2	1-527-344-91	FILTER, CERAMIC
CI 102	1-32/-344-91	TILIER, CERAPITO
CF 103	1 5 27 244 01	ACT TANGOT TO VED CEDAMIC
CF 20 1	1-527-344-91	(ST-JX520L:G-AEP)FILTER, CERAMIC
CF201		FILTER, CERAMIC
Crzuz	1-527-937-00	FILTER, CERAMIC
CE 20 1	1 567 250 11	OCCILIATOR CERAMIC
CF301	1-567-250-11	OSCILLATOR, CERAMIC
CF60 1	1-567-192-11	(ST-JX520L)OSCILLATOR, CERAMIC
OH 1 10 1		(CT 145001 0 A50)
CNJ 10 1	1-561-919-00	(ST-JX520L:G-AEP)
011 100		SOCKET, CONNECTOR (F
CNJ90 1	1-526-794-11	(ST-JX520L)OUTLET, AC (AC OUTLE
CNIDOO	1 524 017 VV	CORD DOUGH FUND DIVID
CNP9UI	1-534-817-XX	CORD, POWER, EURO PLUG
CT20 1	1 141 100 00	CAD TOIMMED IED
CT20 1	1-141-180-00	CAP, TRIMMER 15P
CT203	1-141-180-00	CAP, TRIMMER 15P
CT204	1-141-180-00	CAP, TRIMMER 15P
D20 1	8-7 19-30 1-48	(ST 182201) DIODE CEL 2412E D (TUN
		(ST-JX320L)DIODE SEL2413E-D (TUN
D202	8-7 19-9 12-28	DIODE KV1226-F
D203	8-7 19-9 12-28	DIODE KV1226-F
0004	0 710 107 04	P1007 150000 1
D204	8-7 19 - 107 - 9 4	DIODE 188202-1
D205	8-7 19 - 107 - 94	DIODE 188202-1
D208	8-7 19 - 107 - 9 4	DIODE 1SS202-1
D30 1	8-7 19 - 107 - 9 4	DIODE 1SS202-1
0202	0 7 10 107 04	DIODE 100000 1
D302	8-7 19 - 107 - 9 4	DIODE 1SS202-1
D303	8-7 19 - 107 - 9 4	DIODE 1SS202-1
D304	8-7-19-300-82	DIODE SEL2213C (STEREO)
D40 1	0 710 107 04	DIODE 100000 1
D401	8-7 19 - 107 - 9 4	DIODE 188202-1
D402	8-7 19 - 107 - 94	DIODE 1SS202-1
D403	8-719-907-92	DIODE GL-5EG521-B
D404	8-7 19-907-92	DIODE GL-5EG521-B
D405	9 7 10 007 02	DIONE CL ECCE 21 B
200000	8-719-907-92	DIODE GL-5EG521-B
D406	8-7 19-907-92	DIODE GL-5EG521-B
D407	8-7 19-907-92	DIODE GL-5EG521-B
0400	0 7 10 007 02	DIODE CL ECCESI D
D408	8-7 19-907-92	DIODE GL-5EG521-B
D409	8-7 19-907-92	DIODE GL 5EG521-B
D410	8-7 19-907-92	DIODE GL 5EG521-B
D411	8-7 19-907-92	DIODE GL-5EG521-B
D412	9 7 10 007 02	DIODE GL-5EG521-B
D412	8-7 19-907-92	DIODE 1SS202-1
	8-7 19 - 107 - 9 4	
D414	8-7 19 - 107 - 9 4	DIODE 1SS202-1
D4 15	8-7 19 - 107 - 94	DIODE 1SS202-1
D415	8-7 19-107-94	DIODE 155202-1
D416	8-7 19-107-94	DIODE 153202-1
	8-7 19-107-94	DIODE 155202-1
D418		

..DIODE 1SS202-1

S901 A. 1-553-318-41 SWITCH, PUSH (AC POWER) (1 KEY) (POW

4-905-463-11 (BLACK)....COVER, TOP

Published in Heiloo, Holland.

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Λq		ELECTRICA	
MM	Ref.No.	Part No.	<u>Description</u>
W. FRE	D433 D501 D502	8-7 19-107-9 4 8-7 19-5 1 1-20 8-7 19-200-0 2	DIODE 1SS202-1 DIODE S1VB20 DIODE 10E2
by WWW. FREESERVICEMANUALS. INFO	D503 D504 D505	8-7 19-200-02 8-7 19-9 13-03 8-7 19-9 22-73	DIODE 10E2 DIODE HZ30-3L DIODE HZ27-3L
ICEMP	D506 D507 D508	8-7 19 - 107 - 9 4 8-7 19 - 107 - 9 4 8-7 19 - 107 - 9 4	(ST-JX520L)DIODE 1SS202-1 (ST-JX520L)DIODE 1SS202-1 DIODE 1SS202-1
NUALS	D509 D5 10 D5 11	8-7 19-107-9 4 8-7 19-107-9 4 8-7 19-9 10-68	DIODE 1SS202-1 (ST-JX520L)DIODE 1SS202-1 (ST-JX520L)DIODE HZ6C2L
S. INFO	D5 12 D5 13 D5 14	8-7 19-300-82 8-7 19-200-02 8-7 19-992-61	(ST-JX520L)DIODE SEL2213C(STAND BY) (ST-JX520L)DIODE 10E2 DIODE HZ6A1
O	D60 1 D60 4 D605	8-7 19-1 10-32 8-7 19-107-9 4 8-7 19-107-9 4	(ST-JX520L)DIODE PH302B(REMOTE SENSOR) (ST-JX520L)DIODE 1SS202-1 (ST-JX520L)DIODE 1SS202-1
	D606 D607 D608	8-7 19-107-9 4 8-7 19-107-9 4 8-7 19-107-9 4	(ST-JX520L)DIODE 1SS202-1 (ST-JX520L)DIODE 1SS202-1 (ST-JX520L)DIODE 1SS202-1
	F901 ⚠	.1-532-237-00	(ST-JX520L)FUSE, TIME-LAG
	FEE 10 1	1-463-613-11	(ST-JX520L: AEP, ST-JX320L)
	FEE 10 1	1-463-641-11	(ST-JX520L:G-AEP) FRONT END, FM (FEE-4123A)
		8-759-80 1-81 8-759-80 1-80 8-759-20 4-24	IC LA1265 IC LA3401 IC TC9302F-005
	IC 40 2 IC 40 3 IC 40 4	8-759-202-63 8-759-600-02 8-759-202-07	IC TC9 17 2P IC M5218L IC TC9 17 4P
	IC501 IC601 IC602	8-759-80 1-79 8-759-10 3-97 8-75 2-0 10-60	IC LA5665 (ST-JX520L)IC UPD7507HC-020 (ST-JX520L)IC CX20106
	IFT202	1- 40 4- 339-00 1- 40 4- 338-00 1- 40 4- 535-11	TRANSFORMER, DISCRIMINATOR TRANSFORMER, DISCRIMINATOR (FM) COIL (WITH IFT)
	J901	1-507-9 12-11	JACK, PIN 2P (OUTPUT)
	L101 L102	1- 408-575-00 1- 408-575-00	MICRO INDUCTOR 100UH (ST-JX520L:G-AEP)MICRO INDUCTOR 100UH
	L20 1 L20 2 L40 1	1- 408-9 20-00 1- 408-579-00 1- 408-575-00	MICRO INDUCTOR 4.7MMH MICRO INDUCTOR 22OUH MICRO INDUCTOR 10OUH
		1-806-874-11	INDICATOR, L-CRYSTAL LT5056
	LPF302	1-235-266-00 1-235-221-00	(ST-JX520L:G-AEP)FILTER, LOW PASS FILTER, LOW PASS
	PL501	1-5 18-5 1 1-00	LAMP, PILOT
	PT90 1/	1-448-222-11	TRANSFORMER, POWER
	Q 10 1 Q 10 2 Q 10 3	8-7 29-20 1-96 8-7 29-20 1-96 8-7 29-20 1-96	TRANSISTOR 2SC380TM-Y

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

ELECTRICAL PARTS

art No. -729-201-96 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-606-33 -729-173-37 -729-173-37 -729-173-37 -729-18-05 -729-108-05 -729-606-33	Description (ST-JX520L:G-AEP)TRANSISTOR 2SC380TM-TRANSISTOR 2SC2603F TRANSISTOR 2SC2603F
-7 29 - 60 6 - 33 -7 29 - 17 3 - 37 -7 29 - 245 - 83 -7 29 - 60 6 - 33 -7 29 - 17 7 - 44 -7 29 - 60 6 - 33 -7 29 - 17 3 - 37 -7 29 - 10 8 - 05 -7 29 - 60 6 - 33	TRANSISTOR 2SC2603F
-7 29 - 60 6 - 33 -7 29 - 60 6 - 33 -7 29 - 60 6 - 33 -7 29 - 17 3 - 37 -7 29 - 245 - 83 -7 29 - 60 6 - 33 -7 29 - 17 7 - 44 -7 29 - 60 6 - 33 -7 29 - 17 3 - 37 -7 29 - 17 3 - 37 -7 29 - 10 8 - 05 -7 29 - 60 6 - 33	TRANSISTOR 2SC2603F TRANSISTOR 2SC2603F TRANSISTOR 2SC2603F TRANSISTOR 2SC2603F TRANSISTOR 2SC2458 TRANSISTOR 2SC2458 TRANSISTOR 2SC2603F TRANSI
-7 29 - 17 3 - 37 -7 29 - 245 - 83 -7 29 - 606 - 33 -7 29 - 17 3 - 37 -7 29 - 17 3 - 37 -7 29 - 108 - 05 -7 29 - 108 - 05 -7 29 - 606 - 33	TRANSISTOR 2SC2603F TRANSISTOR 2SC2458 TRANSISTOR 2SC2603F TRANSISTOR 2SA733-P TRANSISTOR 2SA733-P (ST-JX520L)TRANSISTOR 2SC1841-PA
-7 29 - 606 - 33 -7 29 - 17 3 - 37 -7 29 - 17 3 - 37 -7 29 - 108 - 05 -7 29 - 606 - 33	TRANSISTOR 2SC2603F TRANSISTOR 2SC2603F TRANSISTOR 2SC2603F (ST-JX520L)TRANSISTOR 2SC1841-PA
-7 29 - 606 - 33 -7 29 - 606 - 33 -7 29 - 17 3 - 37 -7 29 - 17 3 - 37 -7 29 - 108 - 05 -7 29 - 108 - 05 -7 29 - 606 - 33	TRANSISTOR 2SD77 4-5 TRANSISTOR 2SC2603F TRANSISTOR 2SC2603F TRANSISTOR 2SC2603F TRANSISTOR 2SA7 33-P TRANSISTOR 2SA7 33-P (ST-JX520L)TRANSISTOR 2SC1841-PA (ST-JX520L)TRANSISTOR 2SC1841-PA
-7 29 - 17 3 - 37 -7 29 - 108 - 05 -7 29 - 108 - 05 -7 29 - 606 - 33	TRANSISTOR 2SA733-P TRANSISTOR 2SA733-P (ST-JX520L)TRANSISTOR 2SC1841-PA (ST-JX520L)TRANSISTOR 2SC1841-PA
-729-606-33	
1 23-11 3-13	TRANSISTOR 2SC2603F TRANSISTOR 2SB731
-7 29 - 177 - 44 -7 29 - 60 6 - 33 -7 29 - 60 6 - 33	(ST-JX520L)TRANSISTOR 2SD774-5 (ST-JX520L)TRANSISTOR 2SC2603F (ST-JX520L)TRANSISTOR 2SC2603F
-729-606-33 -729-606-33 -729-612-77	(ST-JX520L)TRANSISTOR 2SC2603F (ST-JX520L)TRANSISTOR 2SC2603F (ST-JX520L)TRANSISTOR 2SA1027R
-247 - 107 -00 -247 - 1 19 -00	(ST-JX520L:G-AEP)CARBON 100 5% 1/4W (ST-JX520L:AEP,ST-JX320L)CARBON 330 5% 1/4W F
1-247-831-00 1-247-807-00 1-247-819-00	CARBON 1K 5% 1/6W CARBON 100 5% 1/6W CARBON 330 5% 1/6W
1-247-861-00 1-247-825-00 1-247-819-00	CARBON 18K 5% 1/6W CARBON 560 5% 1/6W CARBON 330 5% 1/6W
1-247-865-00 1-247-819-00 1-247-861-00	CARBON 27K 5% 1/6W (ST-JX520L:G-AEP)CARBON 330 5% 1/6W (ST-JX520L:G-AEP)CARBON 18K 5% 1/6W
1-247-829-00 1-247-819-00 1-247-865-00	(ST-JX520L:G-AEP)CARBON 820 5% 1/61 (ST-JX520L:G-AEP)CARBON 330 5% 1/61 (ST-JX520L:G-AEP)CARBON 27K 5% 1/61
1-247-871-00 1-247-865-00 1-247-863-00	(ST-JX520L:G-AEP)CARBON 47K 5% 1/61 (ST-JX520L:G-AEP)CARBON 27K 5% 1/61 CARBON 22K 5% 1/6W
1-249-421-11 1-247-847-00 1-247-831-00	CARBON 2.2K 5% 1/6W CARBON 4.7K 5% 1/6W (ST-JX52OL)CARBON 1K 5% 1/6W
1-246-469-00 1-247-853-00	(ST-JX320L)CARBON 680 5% 1/4W (ST-JX520L)CARBON 8.2K 5% 1/6W
1-247-831-00 1-247-847-00 1-247-847-00	CARBON 1K 5% 1/6W CARBON 4.7K 5% 1/6W CARBON 4.7K 5% 1/6W
1-247-879-00 1-247-855-00 1-247-831-00	CARBON 100K 5% 1/6W CARBON 10K 5% 1/6W CARBON 1K 5% 1/6W
	-7 29-606-33 -7 29-177-44 -7 29-606-33 -7 29-606-33 -7 29-606-33 -7 29-606-33 -7 29-606-33 -7 29-612-77 -247-107-00 -247-119-00 -247-807-00 -247-819-00 -247-819-00 -247-819-00 -247-819-00 -247-819-00 -247-865-00 -247-87-00 -247-87-00 -247-87-90 -247-87-90 -247-87-90 -247-87-90 -247-855-00

ELECTRICAL PARTS

	ELECTRI	CAL PARTS					
Ref.No.	Part No.	Description	TOTAL STATE				
R212 R213 R214 <u>↑</u>	1-247-831-00 1-247-865-00 1-247-119-00	CARBON	1K 27K 330	5% 5% 5%	1/6W 1/6W 1/4W	F	
R215 R216 R218	1-247-805-00 1-247-843-00 1-247-855-00	CARBON	82 3.3K 10K	5% 5% 5%	1/6W 1/6W 1/6W		
R2 19 R220 R22 1	1-247-855-00 1-247-831-00 1-247-871-00	CARBON	10 K 1 K 47 K	5% 5% 5%	1/6W 1/6W 1/6W		
R222 R223 R224	1-247-887-00 1-247-87 1-00 1-247-887-00	CARBON	220K 47 K 220K	5% 5% 5%	1/6W 1/6W 1/6W		
R225 R226 R227	1-247-903-00 1-247-879-00 1-247-871-00	CARBON	1M 100K 47 K	5% 5% 5%	1/6W 1/6W 1/6W		
R228 A R229 R230	• 1-247 - 123-00 1-247 - 847 - 00 1-247 - 847 - 00	CARBON CARBON CARBON	470 4.7K 4.7K	5% 5% 5%	1/4W 1/6W 1/6W	F	(SOZ)
R231 R232 R233	1-247-87 1-00 1-247-87 1-00 1-247-863-00	CARBON CARBON CARBON	47 K 47 K 22 K	5% 5% 5%	1/6W 1/6W 1/6W		
R234 R235 R237	1-249-421-11 1-249-421-11 1-247-855-00	CARBON CARBON CARBON	2.2K 2.2K 10K	5% 5% 5%	1/6W 1/6W 1/6W		
R238 R239 R241	1-247-87 1-00 1-247-879-00 1-247-855-00	CARBON CARBON CARBON	47 K 100 K 10 K	5% 5% 5%	1/6W 1/6W 1/6W		
R242 R243 R245 R246	1-247-823-00 1-247-863-00 1-247-855-00 1-247-847-00	CARBON CARBON (ST-JX320L) (ST-JX320L)		.CARBO		5% 5%	1/6W 1/6W
R30 1 R30 2 R30 4	1-247-807-00 1-247-863-00 1-247-883-00	CARBON (ST-JX520L: CARBON	100	5%	1/6W		1/6W
R305 R306 R307	1-247-885-00 1-247-847-00 1-247-847-00	CARBON CARBON CARBON	180K 4.7K 4.7K	5% 5% 5%	1/6W 1/6W 1/6W		
R308 R309 R311	1-247-831-00 1-247-871-00 1-247-129-00	CARBON CARBON CARBON	1K 47K 820	5% 5% 5%	1/6W 1/6W 1/4W		
R313 R315 R316	1-247-847-00 1-247-847-00 1-247-849-00	CARBON CARBON CARBON	4.7K 4.7K 5.6K	5% 5% 5%	1/6W 1/6W 1/6W		
R317 A. R318 R319	1-247-109-00 1-247-879-00 1-247-855-00	CARBON CARBON CARBON	120 100K 10K	5% 5% 5%	1/4W 1/6W 1/6W	F	
R320 R321 R322	1-247-863-00 1-247-87 1-00 1-247-847-00	CARBON CARBON CARBON	22K 47K 4.7K	5% 5% 5%	1/6W 1/6W 1/6W		
R354 R355 R356	1-247-883-00 1-247-885-00 1-247-847-00	CARBON CARBON CARBON	150K 180K 4.7K	5% 5% 5%	1/6W 1/6W 1/6W		
R357 R358 R40 1	1-247-847-00 1-247-831-00 1-247-879-00	CARBON CARBON CARBON	4.7K 1K 100K	5% 5% 5%	1/6W 1/6W 1/6W		

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

	ELECTRIC	CAL PARTS				
Ref.No.	Part No.	Description				
R 40 2 R 40 3 R 40 5	1-247-871-00 1-247-843-00 1-247-879-00	CARBON CARBON CARBON	47 K 3.3K 100K	5% 5% 5%	1/6W 1/6W 1/6W	1
R 40 6 R 40 7 R 40 8 1.	1-247-807-00 1-247-847-00 1-247-099-00	CARBON CARBON CARBON	100 4.7 K 47	5% 5% 5%	1/6W 1/6W 1/4W	
R 409 R 4 10 R 4 1 1	1-247-831-00 1-247-831-00 1-247-831-00	CARBON CARBON CARBON	1K 1K 1K	5% 5% 5%	1/6W 1/6W 1/6W	
R412 R413 R414	1-247-831-00 1-247-234-00 1-247-847-00	CARBON CARBON CARBON	1K 560 4.7K	5% 5% 5%	1/6W 1/2W 1/6W	
R416 R417	1-247-819-00 1-247-807-00 1-247-843-00	CARBON CARBON CARBON	330 100 3.3K	5% 5% 5%	1/6W 1/6W 1/6W	
R419 R420	1-247-847-00 1-247-867-00 1-247-847-00	CARBON CARBON CARBON	4.7K 33K 4.7K	5% 5% 5%	1/6W 1/6W 1/6W	
R422 R423	1-247-855-00 1-247-873-00 1-247-871-00	CARBON CARBON CARBON	10K 56K 47K	5% 5% 5%	1/6W 1/6W 1/6W	
1.50028	1-247-123-00	CARBON	470	5%	1/4W	F
R426	1-247-847-00 1-247-847-00	CARBON CARBON	4.7K 4.7K	5% 5%	1/6W 1/6W	
R429	1-247-879-00 1-247-847-00 1-247-831-00	CARBON CARBON CARBON	100K 4.7K 1K	5% 5% 5%	1/6W 1/6W 1/6W	
R432	1-247-831-00 1-247-831-00 1-247-831-00	CARBON CARBON CARBON	1K 1K 1K	5% 5%	1/6W 1/6W 1/6W	
R435	1-247-823-00 1-247-849-00 1-247-823-00	CARBON CARBON CARBON	470 5.6K 470	5% 5%	1/6W 1/6W 1/6W	
R438	1-247-823-00 1-247-823-00 1-247-823-00	CARBON CARBON CARBON	470 470 470	5% 5%	1/6W 1/6W 1/6W	
R441 1	1-247-823-00 1-247-823-00 1-247-823-00	CARBON CARBON CARBON	470 470 470	5% 5%	1/6W 1/6W 1/6W	
R501 <u>A</u> .1 R502 1	- 247 - 19 4-00 - 247 - 887 - 00 - 247 - 847 - 00	CARBON CARBON CARBON	12 220K 4.7K	5%	1/2W 1/6W 1/6W	F
R504 ⚠ . 1 R505 1	-206-481-00 -247-751-11 -247-847-00	METAL OXIDE (ST-JX520L) (ST-JX520L)	56 .CARBON	5% I 820	2W 5%	F 1/2W 1/6W
R508 1	- 206-656-00 - 247-855-00 - 247-879-00	(ST-J X5 20L) (ST-J X5 20L) (ST-J X5 20L)	.METAL .CARBON	OXIDE 10K	470 5%	5% 2W F 1/6W 1/6W
R5 10 ⚠ . 1 R5 11 1	- 247 - 123-00 - 249 - 421-11 - 247 - 815-00	(ST-JX520L) (ST-JX520L) (ST-JX520L)	.CARBON	470 2.2K	5%	1/4W F 1/6W 1/6W
R5 14 ▲ . 1	-247 - 115 - 00 -247 - 115 - 00 -247 - 123 - 00	(ST-J X5 20L) CARBON CARBON	CARBON 220	220	5% 1/4W 1/4W	1/4W F F
R5 17 1	-247 - 143-00 -247 - 149-00 -247 - 855-00	CARBON CARBON CARBON	3.3K 5.6K	5% 5%	1/4W 1/4W 1/6W	F

	FLECTRIC	CAL PARTS				
Ref.No.						
R5 19 R5 20 R5 21	1-247-823-00 1-247-855-00 1-247-807-00	CARBON CARBON CARBON	470 10K 100	5% 5% 5%	1/6W 1/6W 1/6W	
R5 22 R5 23 R5 24	1-247-879-00 1-247-855-00 1-247-855-00	CARBON CARBON CARBON	100K 10K 10K	5% 5% 5%	1/6W 1/6W 1/6W	
R5 25 R5 26 R5 27	1-247-863-00 1-247-855-00 1-247-863-00	CARBON CARBON CARBON	22K 10K 22K	5% 5% 5%	1/6W 1/6W 1/6W	
R5 28 R5 29 R5 30	1-247-879-00 1-247-871-00 1-247-879-00	CARBON CARBON CARBON	100K 47 K 100K	5% 5% 5%	1/6W 1/6W 1/6W	
R5 31 R5 32 R5 33	1-247-855-00 1-247-831-00 1-247-843-00	CARBON CARBON CARBON	10K 1K 3.3K	5% 5% 5%	1/6W 1/6W 1/6W	
R60 1 R60 2 R60 3	1-247-783-00 1-215-476-00 1-247-847-00	(ST-JX520L)	.METAL	200K		1/6W 1/6W 1/6W
R60 4 R605 R60 6	1-247-811-00 1-247-879-00 1-247-831-00	(ST-JX520L)	.CARBO	N 100K	5% 5% 5%	1/6W 1/6W 1/6W
R607 R608 R609	1-247-855-00 1-247-871-00 1-247-815-00	(ST-JX520L)	.CARBO	N 47K	5% 5% 5%	1/6W 1/6W 1/6W
R6 10 R6 17 R6 18	1-247-879-00 1-247-855-00 1-249-421-11	(ST-JX520L)	.CARBO	N 10K	5%	1/6W 1/6W 1/6W
R6 19 R6 20 R6 21	1-247-855-00 1-249-421-11 1-247-855-00	(ST-JX520L)	.CARBO	N 2.2K	5% 5% 5%	1/6W 1/6W 1/6W
R622 R623 R624	1-247-87 1-00 1-247-855-00 1-247-83 1-00	(ST-JX520L)	.CARBO	N 10K	5% 5% 5%	1/6W 1/6W 1/6W
R625 R626 R627 R628	1-247-783-00 1-247-847-00 1-247-855-00 1-247-855-00	(ST-JX520L) (ST-JX520L)	.CARBO	N 4.7K N 10K	5% 5% 5%	1/6W
RM902 *	*1-560-039-00	(ST-JX520L)	PIN, CONNE	CONNECT CTOR PI	OR (COI N 3P	NTROL S)
RT20 1 RT20 2 RT30 1	1-228-995-00 1-228-995-00 1-228-997-00	RES, ADJ, CARI	30N 22	K		
\$40 1 \$40 2 \$40 3	1-552-539-00 1-552-539-00 1-552-539-00	SWITCH, KEY BO	DARD (2)		
\$40.4 \$40.5 \$40.6	1-552-539-00 1-552-539-00 1-552-539-00	SWITCH, KEY BO	DARD (4) 5) 6)		
\$407 \$408 \$409	1-552-539-00 1-552-539-00 1-552-539-00	SWITCH KEY BO	DARD (7)		
\$410 \$411 \$412	1-55 2-5 39-00 1-55 2-5 39-00 1-55 2-5 39-00	SWITCH, KEY BO	DARD (I	10) MEMORY)		
	R5 20 R5 21 R5 22 R5 23 R5 24 R5 25 R5 26 R5 27 R5 28 R5 29 R5 30 R5 31 R5 32 R5 33 R60 1 R60 2 R60 3 R60 4 R60 5 R60 6 R60 7 R60 8 R60 9 R6 10 R6 17 R6 18 R6 20 R6 21 R6 22 R6 23 R6 24 R6 25 R6 26 R6 27 R6 28 R6 27 R6 28 R6 29 R6 20 R6 21 R6 20 R6 21 R6 22 R6 23 R6 24 R6 25 R6 26 R6 27 R6 28 R6 27 R6 28 R6 29 R6 20 R6 21 R6 20 R6 21 R6 22 R6 23 R6 24 R6 25 R6 26 R6 27 R6 28 R6 27 R6 28 R6 27 R6 28 R6 29 R6 20 R6 21 R6 20 R6 21 R6 22 R6 23 R6 24 R6 25 R6 26 R6 27 R6 28 R6 27 R6 28 R6 27 R6 28 R6 29 R6 20 R6 21 R6 22 R6 23 R6 24 R6 25 R6 26 R6 27 R6 28 R6 27 R6 28 R6 27 R6 28 R6 26 R6 27 R6 28 R6 27 R6 28 R6 29 R6 20 R6 21 R6 22 R6 23 R6 24 R6 25 R6 26 R6 27 R6 28 R6 26 R6 27 R6 28 R6 29 R6 20 R6 20 R6 21 R6 22 R6 23 R6 24 R6 25 R6 26 R6 27 R6 28 R6 26 R6 27 R6 26 R6 27 R6 26 R6 27 R6 26 R6 27 R6 26 R6 26 R6 27 R6 26 R6 27 R6 28 R6 26 R6 26 R6 27 R6 28 R6 26 R6 27 R6 28 R6 26 R6 27 R6 28 R6 26 R6 27 R6 28 R6 28	Ref.No. Part No. R519	R5 19	Ref.No. Part No. Description R5 19	Ref.No. Part No. Description R519	RE 1 No. Part No. Description RE 19

ELECTRICAL PARTS

Ref.No.	Part No.	Description
	1-552-539-00 1-552-539-00 1-552-539-00	SWITCH, KEY BOARD (TUNING +) SWITCH, KEY BOARD (STEREO MUTING) SWITCH, KEY BOARD (BAND FM/MW/LW)
S60 1	1-552-539-00	(ST-JX520L)SWITCH, KEY BOARD (SISTEM POWER)
S901 A	. 1-553-318-41	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)
T203	1-405-927-00 1-402-080-11 1-405-914-00 1-402-081-11	COIL, MW OSC COIL, ANT (MW) COIL, LW OSC COIL, ANT (LW)
TM901	1-536-707-00	(ST-JX520L:G-AEP)TERMINAL BOARD, PUSH 2P (MW/LW)
TM901	1-536-708-00	(ST-JX520L:AEP,ST-JX320L)TERMINAL BOARD, PUSH 4P (ANTENNA FM/MW/LW)
XT 40 1	1-567-125-00	VIBRATOR, CRYSTAL 7.2MHZ

ACCESSORY & PACKING MATERIAL

101	1-402-082-11	ANTENNA, FERRITE-ROD(LW/MW/SW)
102	1-501-224-00	(ST-JX320L/520L:AEP)ANTENNA, FEEDE
103 1	.1-506-452-11	(ST-JX520L)ADAPTOR, PLUG
104	1-556-372-61	CORD, CONNECTION (4 CORE)
105	1-557-109-00	CORD, CONNECTION
106	3-701-630-00	BAG, POLYETHYLENE
107	3-703-895-01	(BLACK)LABEL, COLOR
	3-703-906-01	(SILVER)LABEL, COLOR
108	3-760-570-11	(ST-JX520L:AEP)MANUAL, INSTRUCTION
109	3-760-570-41	(ST-JX520L)MANUAL, INSTRUCTION
	3-760-571-11	(ST-JX320L:JAPAN MADE)
	3-760-571-91	(ST-JX320L:FRANCE MADE)
		MANUÁL, INSTRUCTION
1 10	4-876-352-00	SHEET, PROTECTION
111	4-905-240-01	(JAPAN MADE OLNY) CUSHION, LOWER
	4-905-245-01	(ST-JX320L:FRANCÉ MADE)
		CUSHION, LOWER
112	4-905-241-21	(ST-JX520L)INDIVIDUAL CARTON
	4-905-241-31	(ST-JX320L:JAPAN MADE)
	4-905-244-01	(ST-JX320L:FRANCE MADE)
	+903-24+01	INDIVIDUAL CARTON
113	4-905-242-01	(JAPAN MADE)CUSHION (LEFT), UPPER
	4-905-246-01	(ST-JX320L:FRANCE MADE)
		CUSHION (LEFT), UPPER
114	4-905-243-01	(JAPAN MADE)CUSHION (RIGHT), UPPER
	4-905-247-01	(ST-JX320L:FRANCE MADE)
		CUSHION (RIGHT), UPPER
1 15	4-905-264-01	LABEL (EP1), INDICATOR
116	4-905-265-01	LABEL (EP2), INDICATOR
117	4-907-610-01	JOINT
1 18	8-915-122-90	CORD, CONNECTION
120	9-911-863-XX A-4372-026-A	INSULATOR COMMANDER ASSY
121	2-375-012-00	BAG, PROTECTION
	L-3/3-012-00	DAG, TROTLETION

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

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