# CDP-395/M31

# SERVICE MANUAL

AEP Model <sup>CDP-395/M31</sup> E Model Australian Model <sup>CDP-M31</sup>



Photo: CDP-395

Model Name Using Similar Mechanism	CDP-291/391
CD Mechanism Name	CDM14-5BD1
Base Unit Name	BU-5BD1

#### SPECIFICATIONS

General

#### Compact disc player

Frequency response Signal to noise ratio Dynamic range Harmonic distortion Channel separation

#### Outputs

LINE OUT (FIXED) (phono jacks)

LINE OUT (VARIABLE) (phono jacks)

PHONES(for CDP-395) HEADPHONES (for CDP-M31) (stereo phone jack)

> CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT



 $2 \text{ Hz} - 20 \text{ kHz} \pm 0.5 \text{ dB}$ More than 100 dB More than 97 dB Less than 0.004% More than 95 dB

Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms

Output level max. 2 V (at 50 kilohms) Load impedance over 50 kilohms Output level max. 10 mW

Load impedance 32 ohms

This Compact Disc player is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.

	CDP-395	CDP-M31			
Power requirements	AEP Model (CDP-395/CDP-M31) 220 - 230 V AC, 50/60 Hz Australian Model (CDP-M31) 240 V AC, 50 Hz E Model (CDP-M31) 110, 120, 220 or 240 V AC, adjustable, 50/60 Hz				
Power consumption	12 W	12 W			
Dimensions (approx., including projections)	430×100×280 mm (w/h/d) (17×4×11¹/ <sub>8</sub> inches)	355×95×305 mm (w/h/d) (14×3 <sup>3</sup> / <sub>4</sub> ×12 <sup>1</sup> / <sub>8</sub> inches)			
Weight (approx.)	3.5 kg (7 lbs 12 oz)	3.2 kg (7 lbs 1 oz)			

- Continued on next page -

**COMPACT DISC PLAYER** 

SONY

#### **Supplied accessories**

Audio cord	1
	(2 phono plugs – 2 phono plugs)
Remote commander	1
R6(size AA) batteries	2
AC plug adaptor (for some areas)	1

#### Remote commander RM-D391

Remote control system	Infrared control
Power requirements	3 V DC with two R6 (size AA) batteries
Dimensions	Approx. $40 \times 20 \times 1.75$ mm (w/h/d) ( $1^{3}/_{4} \times 1^{3}/_{16} \times 7$ inches)
Weight	Approx. 95 g (4 oz) Including batteries

Design and specifications subject to change without notice.

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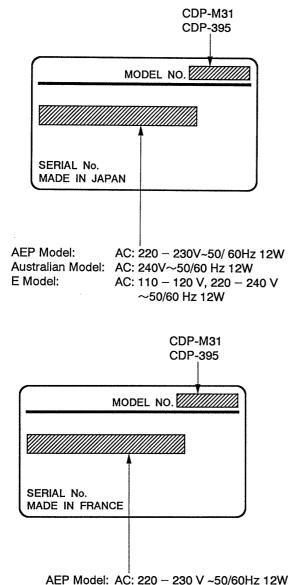
#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A 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 PUB-LISHED BY SONY.

# SECTION 1 SERVICING NOTES

#### MODEL IDENTIFICATION

- Specification Label -



#### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

#### NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

#### Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

# SECTION 2 GENERAL

Location of Controls

• FRONT PANEL

1 POWER switch

5 PROGRAM button 6 SHUFFLE button

7 CONTINUE button 8 TIME button

10 Numeric buttons

[16] FADER button

18 REPEAT button 19 EDIT/TIME FADE button

21 (stop) button

23 > (play) button

22 II (pause) button

24 🚖 (open/close) button

12 >12 (over 12) button

13 MUSIC SCAN button

9 CHECK (program check) button

11 CLEAR (program clear) button

[17] PHONES jack (for CDP-395)

 Id
 PEAK SEARCH button (for CDP-395)

 P.SEARCH button (for CDP-M31)

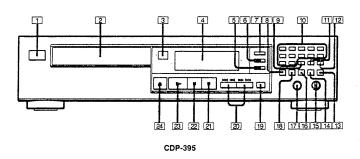
 I5

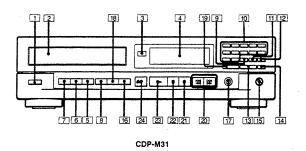
 LINE OUT/PHONE LEVEL control

HEADPHONES jack (for CDP-M31)

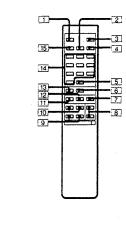
20 Heter Heter (AMS\*/RMS\*\*/manual search) buttons

2 Disc tray3 Remote sensor4 Display window





#### • REMOTE COMMANDER



- 1 M.SCAN (music scan) button
- 2 SHUFFLE button
- 3 FADER button
- 4 PROGRAM button
- 5 >10 (over 10) button
- 6 REPEAT button
- 7 🔳 (stop) button
- 8 LINE OUT LEVEL +/- buttons
- 9 ◀◀ ►► (manual search) buttons
- 10 HAANS buttons
- 11 ► (play) button 12 II (pause) button
- 13 TIME button
- [14] Numeric buttons
- 15 CONTINUE button
- \* AMS is the abbreviation of Automatic Music Sensor.
- \*\* RMS-is the abbreviation of Random Music Sensor.

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# SECTION 3 DISASSEMBLY OF BASE UNIT

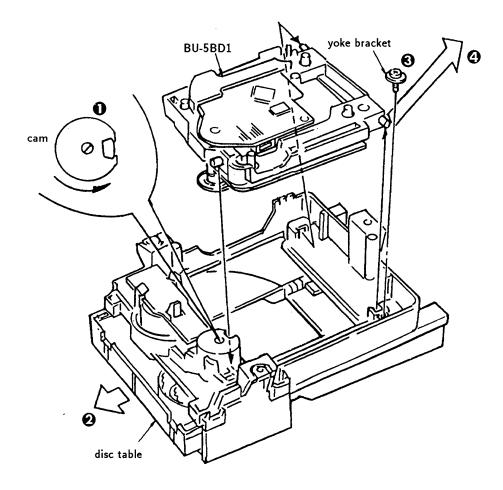
Note :

Follow the disassembly procedure in the nomerical order given.

• Turn the cam to the direction of arrow (Counter clock wise) by minus screw driver.

**2** Take off the disc table.

- S Remove the yoke bracket.
- Remove the MD (BU-5BD1) to the direction of arrow.

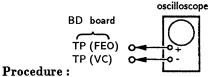


# SECTION 4 ELECTRICAL BLOCK CHECKING

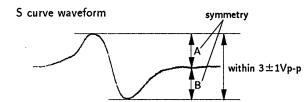
#### Note :

- 1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than  $10M\Omega$  impedance.
- 4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

#### **S** Curve Check

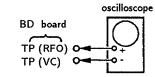


- 1. Connect oscilloscope to test point TP (FEO) on BD board.
- 2. Connect between test point TP (FES) and TP (VC) by lead wire.
- 3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
- 4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within  $3\pm 1$ Vp-p.



- 5. After check, remove the lead wire connected in step 2.
- Note: Try to mesure several times to make sure that the ratio of A:B or B:A is more than 10:7.
  - Take sweep time as long as possible and light up the brightness to obtain best waveform.

#### **RF Level Check**

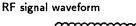


#### **Procedure :**

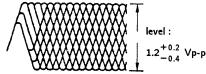
- 1. Connect oscilloscope to test point TP (RFO) on BD board.
- 2. Turn Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

#### Note :

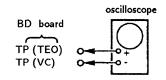
Clear RF signal waveform means that the shape " $\diamondsuit$ " can be clearly distinguished at the center of the waveform.



VOLT/DIV : 200mV TIME/DIV : 500nS

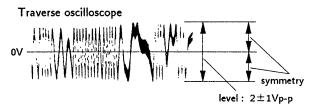


#### E-F Balance Check



#### Procedure :

- 1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
- 2. Connect oscilloscope to test point TP (TEO) on BD board.
- 3. Turn Power switch on.
- 4. Put disc (YEDS-18) in and playback.
- 5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.



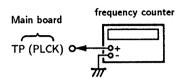
6. Remove the lead wire connected in step 1.

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#### **RF PLL Free-run Frequency Check**

#### Procedure :

1. Connect frequency counter to test point (PLCK) with lead wire.



- 2. Turn Power switch on.
- Confirm that reading on frequency counter is
   4. 3218MHz.

#### Focus/Tracking Gain

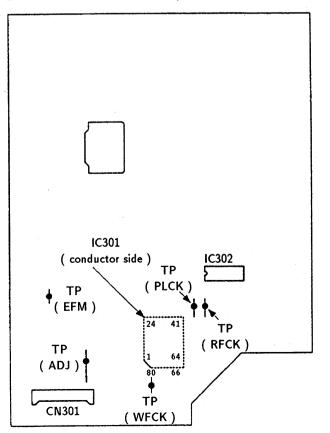
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

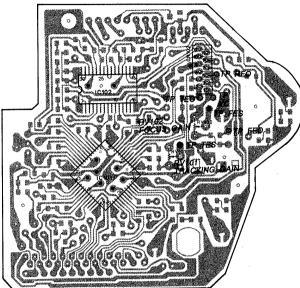
#### Adjustment Location ;

[MAIN BOARD] - Component Side -



#### Adjustment Locations: [BD board]

- conductor side -



# SECTION 5 DIAGRAMS

#### 5-1. IC PIN FUNCTION AND IC BLOCK DIAGRAMS • IC101 (CXA1372Q) PIN FUNCTION

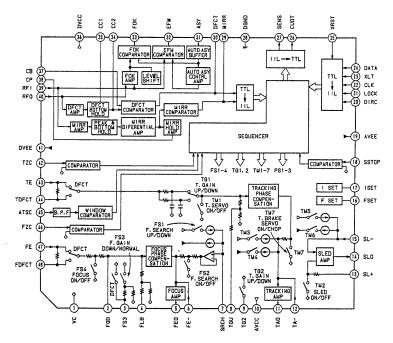
	CARIJIZQJ		UNCTION
Pin No.	Pin Name	1/0	Description
1	VC	-	GND when two $(\pm)$ dual power supplies are in use, or the center voltage (2.5V) when a
·····			single power supply is in use.
2	FGD	I	Time constants for gain switching in normal mode/down mode and for focus gain are
3	FS3	I	conncted between the FGD and FS3 pins.
4	FLB	I	The capacitor for low frequency boost in the focus servo loop is connected.
5	FEO	0	Focus drive output.
6	FE-	I	Inverted input to focus amplifier.
7	SRCH	I	Time constants to generate the focus search waveform are connected.
8	TGU	I	Time constants for gain switching in normal mode/up mode and for tracking gain ar
9	TG2	1 I	connected between TGU pin and TG2 pin.
10	AVCC		Analog power supply (5V when $\pm$ dual power supplies are in use, 5V when a single
			power supply is in use.)
11	TAO	0	Tracking drive output.
12	TA-	I	Inverted input to tracking amplifier.
13	SL+	I	Non-inverted input to sled amplifier.
14	SLO	0	Sled drive output.
15	SL-	I	*
16	ESET	I	Non-inverted input to sled amplifier.
			The $610k\Omega$ phase compensator resistor is connected to this pin.
17	ISET	I	The current setting resistor is connected to this pin.
18	SSTOP	I	The limit switch is connected to this pin.
19	AVEE	-	Analog power supply $(-5V$ when $\pm$ dual power supplies are in use, or GND when
	DIDA		single power supply is in use.)
20	DIRC	I	Direct control pin.
21	LOCK	I	Sled run-away prevention circuit operates when this signal is "L".
22	CLK	I	Serial data transfer clock input that is supplied from CPU (or DSP).
23	XLT	I	Latch input from CPU (or DSP).
24	DATA	I	Serial data input from CPU (or DSP).
25	XRST	I	System reset. "L" to reset.
26	C.OUT	0	Output to tracking counter.
27	SENS	0	SENS output.
28	DGND	-	Digital ground (GND). (GND when $\pm$ dual power supplies are in use. GND when single power supply is in use.)
29	MIRR	0	Mirror output.
30	DFCT	0	Defect output. "H" when defective.
31	ASY	I	Auto-assymmetry control input.
32	EFM	0	EFM comparator output.
33	FOK	0	Focus OK.
34	CC2	I	
35	CC1	0	Defect-bottom-hold input (input by capacitive coupling).
	DVCC		Defect-bottom-hold output.
36	DVCC	-	Digital power supply. $(+5V \text{ when } \pm \text{ dual power supplies in use. } +5V \text{ when a single power supply is in use.})$
37	CB	I	
38	CP	1	The defect-bottom-hold capacitor is connected to this pin.
		I	The mirror hold capacitor is connected to this pin.
39	RF1	I	RF signal input (input by capacitive coupling).
40	RF0	I	RF signal input (input by DC coupling).
41	DVEE	-	Digital power supply (-5V when $\pm$ dual power supplies are in use. GND when a single power supply is in use.)
42	TZC	I	Tracking zero-cross comparator input.
43	TE	I	Tracking error input.
44	TDFCT	I	The defect prevention hold capacitor is connected to this pin.
45	ATSC	I	Anti-shock input.
46	FZC	Ι	Focus zero-cross comparator input.
47	FE	I	Focus error input.
48	FDFCT	I	The defect prevention hold capactior is connected to this pin.

## • IC401 (CXP50112-097Q) PIN FUNCTION

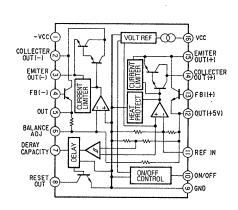
Pin No.	Pin Name	1/0	Description
1 - 4	-		Not used (open).
5 - 20	S1 -S16	0	Segment output to FL tube.
21 - 28	1G - 8G	0	Common output to FL tube.
29	SCOR	Ι	Subcode sync signal S0 + S1 detection input from IC301 (CXD2500AQ).
30		_	Not used (open).
31	+5V	-	+5V
32	$\overline{\mathrm{RST}}$	I	Reset input.
33	+5V	_	+5V
34	VDD	_	Power voltage terminal (+5V).
35 - 40	KEY0 - KEY5	I	Key A/D input.
41		-	Not used (Ground).
42	TIMER SW	I	Auto play select input (Auto play "L").
43	_	_	Not used (Ground).
44	CLK	0	Serial data transfer clock output to IC301 (CXD2500AQ).
45	DATA	0	Serial data output to IC301 (CXD2500AQ).
46	-		Not used (Ground).
47	FOK	I	Focus OK signal input from IC101 (CXA1372Q).
48	GFS	I	Frame sync signal clock status input from IC301 (CXD2500AQ).
49	SUBQ	I	Subcode (Q data) serial input from IC301 (CXD2500AQ).
50	SQCLK	0	Subcode (Q data) schal input noin reson (CAD2000AQ).
51	XLT	0	Serial data latch output.
52	PRGL	0	Attenuate data latch clock output to IC302 (CXD2554P).
52	LDON	0	Laser diode ON/OFF select output of optical pick-up.
54	AMUT	0	Muting output for IC301 (CXD2500AQ) and Q344 (2SC3399). Muting on by "H", Muting off by "L".
55 - 58	B0 - B3		Not used (Ground)
59	DEFECT SW	0	Deffect circuit ON/OFF select output to IC101 (CXA1372Q).
60		_	Not used (open).
61	SENSE	I	SENS signal input from IC301 (CXD2500AQ).
62	RMC	I	Remote control signal input.
63		I	Input for loading out switch.
64	$\frac{103W}{OUTSW}$	I	Output for loading in switch.
65	ADJ	I	Test mode input. GFS check will not activate by "L".
66	AFADJ	I	Test mode input. All test operation will be activate by "L" mode when power on.
67	LODIN	0	Output for turn the loading motor to loading.
68	LODOUT	0	Output for turn the loading motor to inloading.
69	LED	0	Output for turn the loading motor to unloading. Output for motor volume LED lighting.
70		_	Not used (open).
70	Vss		Ground.
			Clock output.
72	XTAL	0	
73	+5V	T	+5V Cleak input (4)(Ha)
74	EXTAL	I	Clock input. (4MHz)
75	+5V	- -	+5V
76	-30V	I	Power voltage $-30V$ for built in FL tube controller.
77	-	0	Not used (open).
78	-	0	Not used (open).
79	VDL DOWN	0	Output for motor volume down.
80	VOL UP	0	Output for motor volume up.

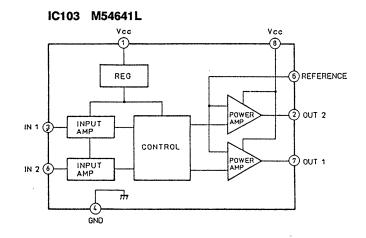
#### • IC Block Diagrams

#### IC101 CXA1372Q

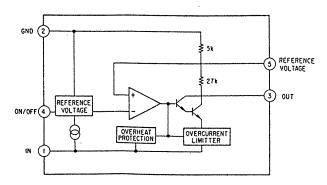


IC202 M5290P-16

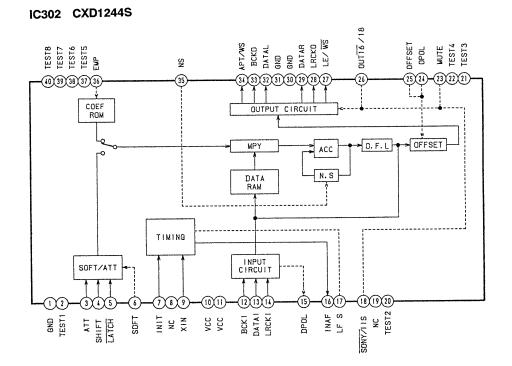




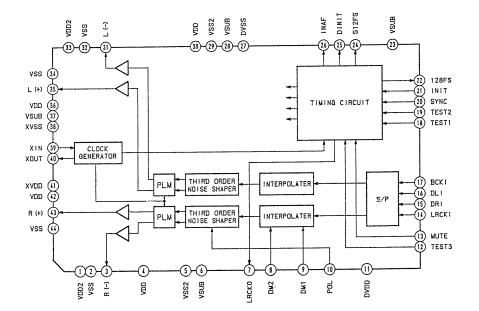


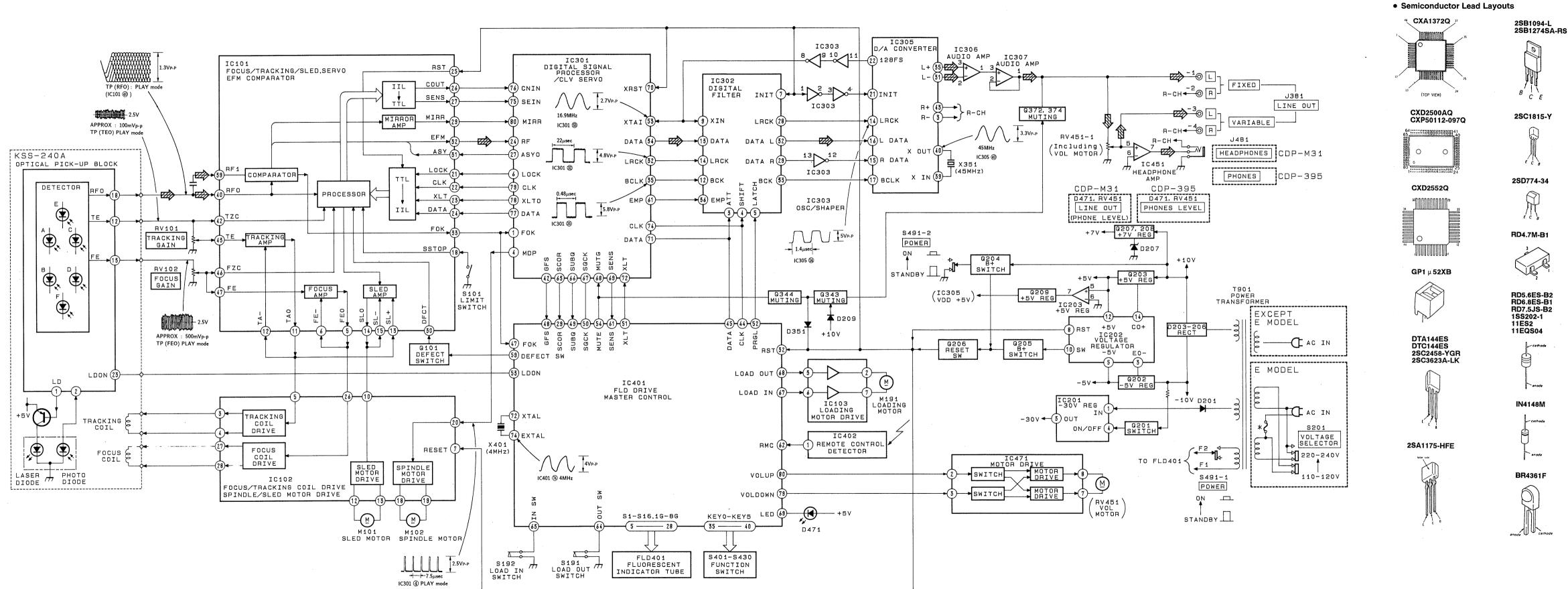


IC301 CXD2500AQ MIRR CLK0 CLK0 6AT0 CNIN CNIN SEIN V00 DATA BATA XRST SENS MUTE 50CK 50SD EXCK 68) 676665 TIII 11 T AUTO SEQUENCER FOK ( (64) SBSO EFM (3) SCOR ĐEMOĐU-LĄTOR -@ WFCK **FSW** ស) ೯೫೪೫ MON MÐP CLV -00 0001 -09 MD2 ĐOUT ÐIGITAL OUT MÐS LOCK NC VARIABLE PITCH CONTROL G -58) C16M -57) C4M vcoo 0 1037 PLL TEST BUS -55 FSTT -55 XTSL -54 XTAO PĐO CLOCK GENERA-TOR BATA VSS (12) 🛐 XTA1 NC NC (i) vss (15 NC VPCO (SI) APTL 16 50 APTR VCKI FILO 🔞 (10AG (9) ERROR CORREC-TOR 49 ĐAO1 49 ĐAO2 40 ĐAO2 40 ĐAO3 40 ĐAO3 40 ĐAO5 40 FILI (19 PCO (20 FILI VCO AVSS AÐÐRESS GENERA-TOR CLTV (ì RAM AVÐÐ 🚯 ASYMMETRY RF 🛈 0/A DATA PROCESSOR 1518-17-1819 333333333 <u>9999</u> -(33)-TEST2 ( TEST3 ( ASYD ( TEST4 ( NC ( PSSL ( WBCK 4 LRCK ( VBB ( 0400 ( 0415 ( 0415 ( 0415 ( 0413 ( 0413 ( 0413 ( 0411 ( 0410 ()



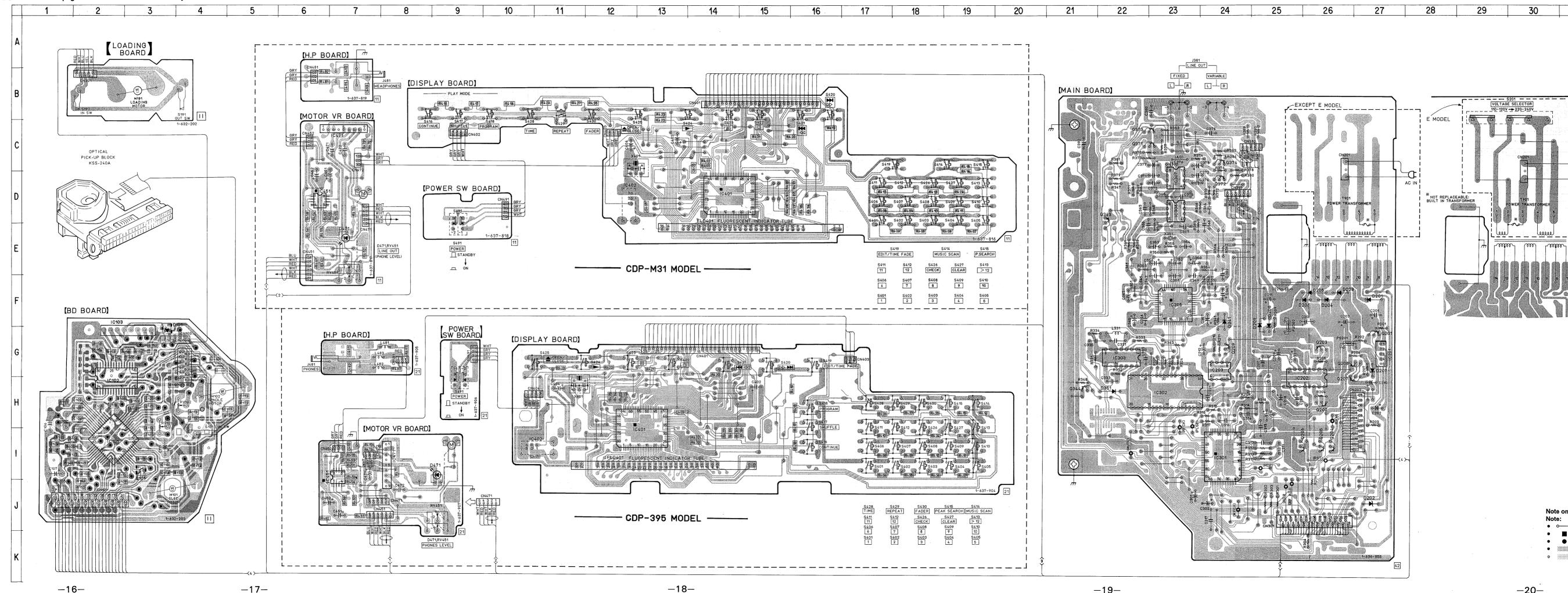
IC305 CXD2552Q





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-16-

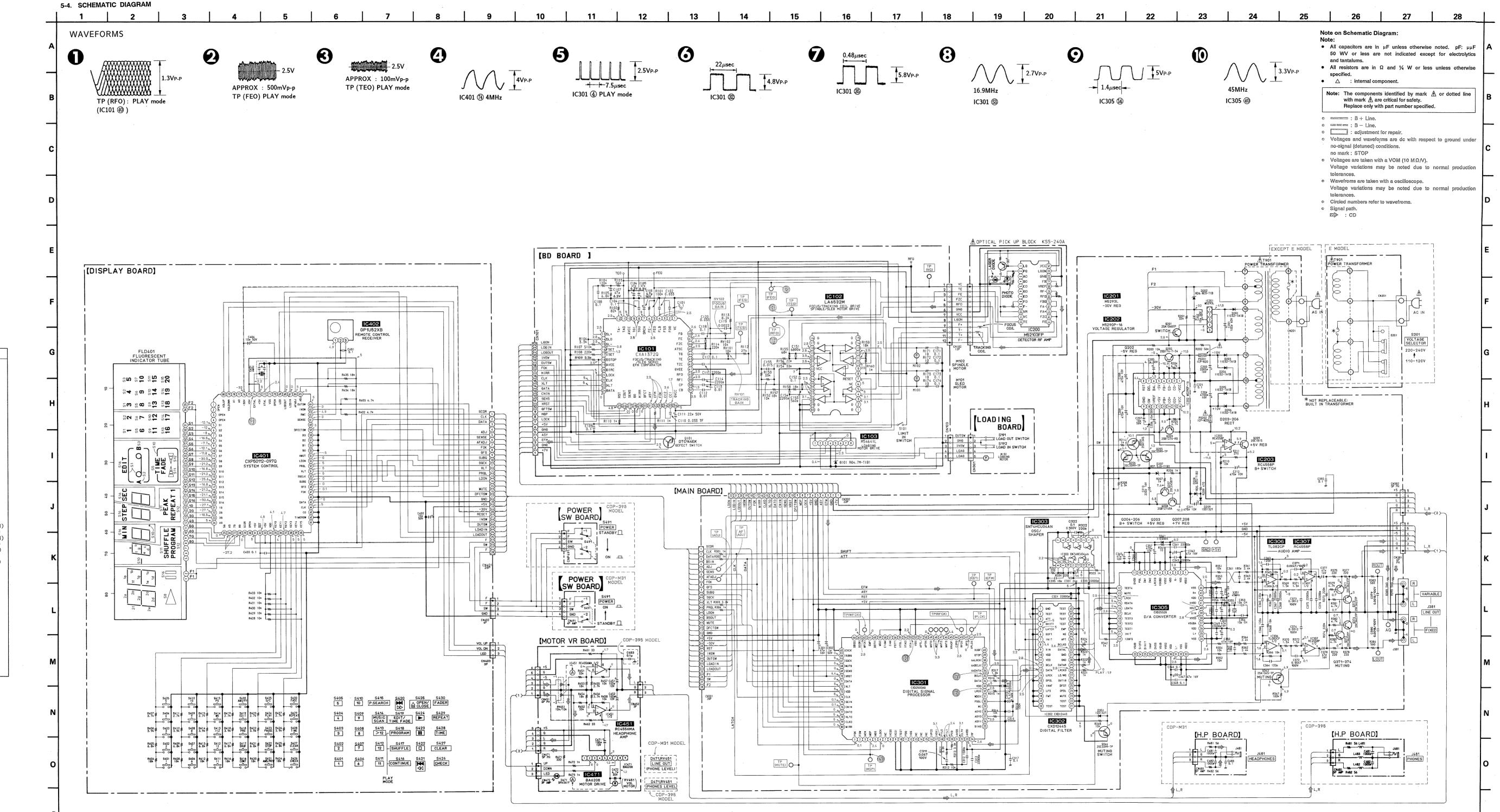
	26	27	28	29	30	31
·· . 1						1

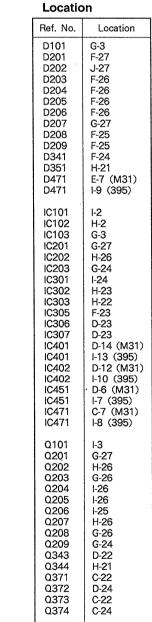
Note on Printed Wiring Board:

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room

• • ----- : parts extracted from the component side. • : parts mounted on the conductor side. • • : Through hole. Pattern on the side which is seen. Pattern of the rear side.





Semiconductor

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#### SECTION 6 EXPLODED VIEWS

#### NOTE:

15

\* 4-942-980-21 PANEL. BACK (MADE IN JAPAN M31:E)

- · -XX and -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

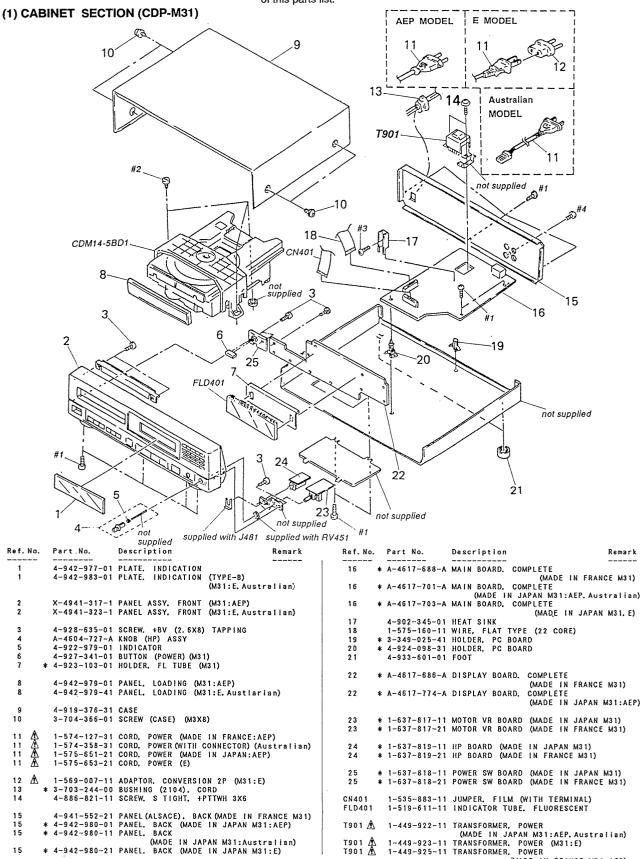
î ↑

Parts Color Cabinet's Color

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last • of this parts list.

The components identified by mark  $\underline{\mathbb{A}}$  or dotted line with mark A are critical for safety. Replace only with part number specified.

(MADE IN FRANCE M31:AEP)



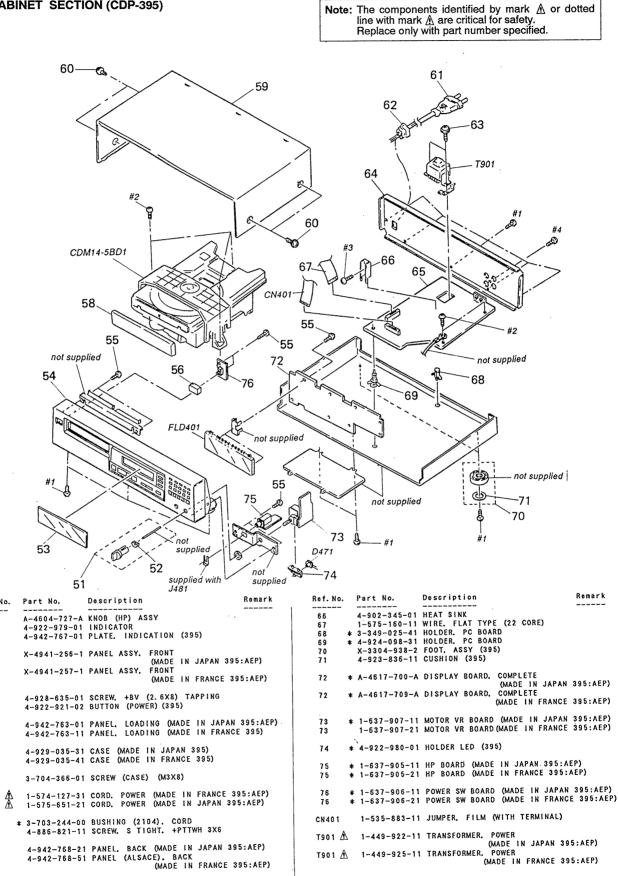
#### (2) CABINET SECTION (CDP-395)

Ref. No.

56

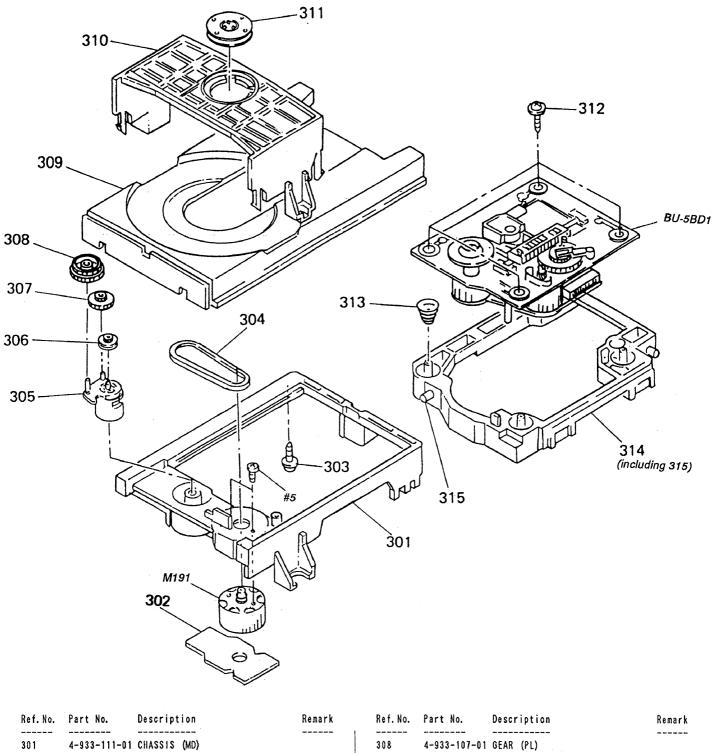
\* A-4617-688-A MAIN BOARD. COMPLETE

(MADE IN FRANCE 395:AEP) \* A-4617-701-A MAIN BOARD, COMPLETE (MADE IN JAPAN 395)



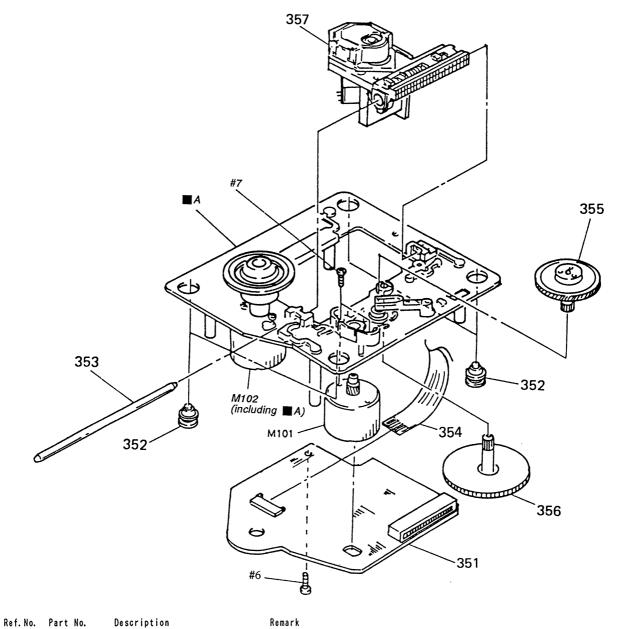
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#### (3) MD SECTION (CDM14-5BD1)



			n v m v r n		i ui c noi	boooription	IL O HILL I K
				~~~~~			
301	4-933-111-01	CHASSIS (MD)		308	4-933-107-01	GEAR (PL)	
				309	4-933-112-01	TABLE. DISK	
302	* 1-632-202-11	LOADING BOARD (MADE IN JAPAN)		310	4-933-110-01	HOLDER (MG)	
302	* 1-632-202-21	LOADING BOARD (MADE IN FRANDE)		311 3	* 1-452-538-11	MAGNET	
				312	4-933-134-01	SCREW +PTPWH M2.6X6	
303	* 4-917-583-21	BRACKET, YOKE					
304	4-927-649-01	BELT		313	4-917-541-01	SPRING (B)	
305	4-933-109-01	CAM		314	4-933-129-01	HOLDER (BU)	315
306	4-927-651-01	PULLEY (S)		315	4-933-108-01	SHAFT (CAM)	
307	4-927-628-01	GEAR (C)		M191	A-4604-363-A	MOTOR (L) ASSY (LOADING)	

# (4) PICK-UP BLOCK (BU-5BD1)



Ne1. NU.	rart NU.	Description
351	A-4617-161-A	BD BOARD, COMPLETE
352	4-933-126-01	INSULATOR (A)
353	4-917-565-01	SHAFT. SLED
354	1-575-001-11	WIRE, FLAT TYPE (12 CORE)
355	4-917-567-01	GEAR (M)
356	4-917-564-01	GEAR (P), FLATNESS
357. 🛆	8-848-144-11	DEVICE, OPTICAL KSS-240A
M101	X-4917-504-1	MOTOR, ASSY (SLED)
M102	X-4917-523-3	MOTOR, ASSY (SPINDLE)

Note: The components identified by mark  $\underline{\mathbb{A}}$  or dotted line with mark  $\underline{\mathbb{A}}$  are critical for safety. Replace only with part number specified.

# **SECTION 7 ELECTRICAL PARTS LIST**

SEMICONDUCTORS

CAPACITORS

uF:  $\mu$ F

uH:  $\mu$ H

COILS .

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• Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be antici-pated when ordering these items.

In each case, u: μ, for example: uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...

CD	P-3	<b>395</b> /	/M31

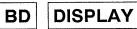
BD

The components identified by mark  $\underline{A}$  or dotted line with mark  $\underline{A}$  are critical for safety. Replace only with part number specified.

When including parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark 	Ref. No.	Part No.	Descri	ption			Remar
	A-4617-161-A	BD BOARD, COMP ***********						< CONN	IECTOR >			
		< CAPACITOR >				CN101 CN102 CN103 +	1-568-796-11 1-568-795-11 1-564-721-11	SOCKET	. CONNEC	TOR 12P	TVDC	50
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V		1-304-721-11	r 1 M, C	ONNECTOR	(SMALL	(115)	ər
C102		CERAMIC CHIP	0. 033uF	10%	25V			< D100	)F>			
C103	1-126-163-11		4. 7uF		50V							
C104		CERAMIC CHIP	0. 1uF		25V	D101	8-719-105-72	DIODE	RD4. 7M-R	1		
C105	1-126-154-11		47uF	20%	6. 3V		0 110 100 12	0.002	104.116.0	•		
								< 10 >	,			
C106	1-126-154-11	ELECT	47uF	20%	6.3V							
C107	1-126-154-11	ELECT	47uF	20%	6.3V	10101	8-752-050-82	IC SC	CXA1372Q			
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V	10102	8-759-822-36	IC LAG	532M			
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V	10103	8-759-633-65	1C M54	641L			
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V							
								< JUMP	PER >			
C111	1-131-367-00	TANTALUM	22uF	10%	20V							
C112	1-164-232-11	CERAMIC CHIP	0.01uF		50V	J101	1-216-295-00	METAL	CHIP	0	5%	1/10W
C113	1-164-232-11	CERAMIC CHIP	0.01uF		50V	J102	1-216-295-00	METAL	CHIP	0	5%	1/10W
C114	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V							
C115	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V			< TRAN	ISISTOR >			
C117		CERAMIC CHIP	0. 1uF		25V	Q101	8-729-901-01	TRANSI	STOR DTC	144EK		
C118		CERAMIC CHIP	0. 1uF		25V							
C119		CERAMIC CHIP	0.0022uF		100V			< RESI	STOR >			
C120		CERAMIC CHIP	0.033uF		25V							
C151	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	R101	1-216-097-00			100K	5%	1/10W
0150	1 100 000 00		A 4. F		0.5.11	R102	1-216-095-00			82K	5%	1/10W
C152		CERAMIC CHIP	0.1uF	1.04/	25V	R103	1-216-091-00			56K	5%	1/10W
C153		CERAMIC CHIP	560PF	10%		R104	1-216-099-00			120K	5%	1/10W
C154		CERAMIC CHIP	0.0022uF	10%	100V	R105	1-216-069-00	MEIAL	CHIP	6.8K	5%	1/10W
C155		CERAMIC CHIP	0.015uF	5%	50V .	Diac	1 010 001 00		01110	0.04	50/	
C171	1-103-038-00	CERAMIC CHIP	0.1uF		2 <b>5</b> V	R106	1-216-061-00			3.3K	5%	1/10W
C172	1	CEDANIC CUID	0 1.JE		051	R107	1-216-114-00		-	510K	5%	1/10W
C172		CERAMIC CHIP CERAMIC CHIP	0. 1uF 0. 1uF		25V	R108	1-216-105-00			220K	5%	1/10W
C173		CERAMIC CHIP			25V	R109	1-216-061-00			3.3K	5%	1/10W
0174	1-103-038-00	UCRAMIC UNIP	0.1uF		25V	R110	1-216-049-00	METAL	CHIP	1 K	5%	1/10W

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS All resistors are in ohms. METAL: Metal-film resistor METAL OXIDE: Metal Oxicide-film resistor F: nonflammable



R111       1-316-846-00 METAL CRIP       X       SX       Y/10W         R111       1-16-330-00 METAL CRIP       X       SX       Y/10W         R111       1-16-30-00 METAL CRIP       X       SX       Y/10W         R111       1-16-30-00 METAL CRIP       XX       SX       Y/10W         R111       1-16-30-00 METAL CRIP       XX       SX       Y/10W         R112       1-216-03-00 METAL CRIP       XX       SX       Y/10W         R154       1-216-03-00 METAL CRIP       XX       SX       Y/10W         R155       1-216-03-00 METAL CRIP       XX       SX       Y/10W         R156       1-216-03-00 METAL CRIP       XX       SX       Y/10W         R156       1-216-03-00 METAL CRIP       XX       SX       Y/10W         R151       1-216-03-00 METAL CRIP       XX       XX       Y/10W         R151       1-216-03-00 METAL CRIP       XX       XX       Y/10W         R151       1-216-03-00 METAL CRIP       XX       XX       XX       XX       XX         R151       1-216-03-00 METAL CRIP       XX	Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
R114       1-16-91-00 MFAL CHP       2.X       SX       1/16       1/16-91       2/16-91-00       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92       1/16-92		1-216-049-00	METAL CHIP 1K	5%							
R114       1-216-105-00 METAL CHIP       220K       5K       1/10W       16401       8-749-920-83 IC GP1052XB         R153       1-216-035-00 METAL CHIP       33K       5K       1/10W       IG402       8-749-920-83 IC GP1052XB         R154       1-216-035-00 METAL CHIP       33K       5K       1/10W       R403       1-216-035-00 METAL CHIP       4.7 K       55K       1/10W         R155       1-216-035-00 METAL CHIP       33K       5K       1/10W       R403       1-216-058-00 METAL CHIP       4.7 K       55K       1/10W         R156       1-216-037-00 METAL CHIP       13K       5K       1/10W       R405       1-216-058-00 METAL CHIP       5.8 K       5.8 K <td>R112</td> <td>1-216-083-00</td> <td>METAL CHIP 27K</td> <td>5%</td> <td>1/10W</td> <td></td> <td></td> <td>&lt; 10 &gt;</td> <td></td> <td></td> <td></td>	R112	1-216-083-00	METAL CHIP 27K	5%	1/10W			< 10 >			
R152       1-216-03-00 METAL CHIP       10K       5K       1/10W       CRESISTOR >         R153       1-216-085-00 METAL CHIP       30K       5K       1/10W       CRESISTOR >         R155       1-216-085-00 METAL CHIP       30K       5K       1/10W       R402       1-216-055-00 METAL CHIP       4.7K       5K       1/10W         R155       1-216-081-00 METAL CHIP       38K       5K       1/10W       R404       1-216-055-00 METAL CHIP       1.7K       5K       1/10W         R155       1-216-017-00 METAL CHIP       18K       5K       1/10W       R404       1-216-037-00 METAL CHIP       1.7K       5K       1/10W         R155       1-216-017-00 METAL CHIP       18K       5K       1/10W       R404       1-216-037-00 METAL CHIP       1.7K       5K       1/10W         R171       1-216-017-00 METAL CHIP       18K       5K       1/10W       R407       1-216-037-00 METAL CHIP       1.7K       5K       1/10W         R171       1-216-017-00 METAL CHIP       18K       5K       1/10W       R408       1-216-018-00 METAL CHIP       1.7K       5K       1/10W         R171       1-216-017-00 METAL CHIP       1.6K       5K       1/10W       R401       1-216-055-00 METAL CHIP	R113	1-216-071-00	METAL CHIP 8.2K	5%	1/10W						
8153       1-216-085-00 METAL CHIP       33X       5X       1/10W         8154       1-216-085-00 METAL CHIP       33X       5X       1/10W         8155       1-216-083-00 METAL CHIP       33X       5X       1/10W         8155       1-216-083-00 METAL CHIP       4,7X       5X       1/10W         8157       1-216-083-00 METAL CHIP       4,7X       5X       1/10W         8158       1-216-073-00 METAL CHIP       13X       5X       1/10W         8159       1-216-073-00 METAL CHIP       13X       5X       1/10W         8151       1-216-073-00 METAL CHIP       13X       5X       1/10W         8151       1-216-031-00 METAL CHIP       13X       5X       1/10W         8151       1-216-031-00 METAL CHIP       13X       5X       1/10W         8171       1-216-031-00 METAL CHIP       13X       5X       1/10W	R114	1-216-105-00	METAL CHIP 220K	5%	1/10W	1C401	8-752-817-41	IC CXP50112-0	970		
R154       1-216-085-00 METAL CHIP       33X       SX       1/10W         R155       1-216-085-00 METAL CHIP       4, 7K       5X       1/10W         R156       1-216-085-00 METAL CHIP       4, 7K       5X       1/10W         R157       1-216-085-00 METAL CHIP       4, 7K       5X       1/10W         R158       1-216-073-00 METAL CHIP       18X       5X       1/10W       R402       1-216-063-00 METAL CHIP       4, 7K       5X       1/10W         R158       1-216-073-00 METAL CHIP       18X       5X       1/10W       R405       1-216-030-00 METAL CHIP       5, 8X       5X       1/10W         R150       1-216-030-00 METAL CHIP       18X       5X       1/10W       R407       1-216-030-00 METAL CHIP       1, 7X       5X       1/10W         R171       1-216-030-00 METAL CHIP       18X       5X       1/10W       R407       1-216-030-00 METAL CHIP       1, 7X       5X       1/10W         R171       1-216-030-00 METAL CHIP       10       5X       1/10W       R407       1-216-030-00 METAL CHIP       1, 7X       5X       1/10W         R171       1-216-030-00 METAL CHIP       1, 7X       5X       1/10W       R407       1-216-030-00 METAL CHIP       1, 7X	R152	1-216-073-00	METAL CHIP 10K	5%	1/10W	1C402	8-749-920-83	IC GP1U52XB			
R155       1-216-035-00 WETAL CHIP       64X       55X       1/10W         R155       1-216-037-00 WETAL CHIP       18X       55X       1/10W       R442       1-216-036-00 WETAL CHIP       4.7K       55X       1/10W         R155       1-216-037-00 WETAL CHIP       18X       55X       1/10W       R444       1-216-036-00 WETAL CHIP       18X       55X       1/10W         R155       1-216-037-00 WETAL CHIP       18X       55X       1/10W       R446       1-216-036-00 WETAL CHIP       18X       55X       1/10W         R156       1-216-047-00 WETAL CHIP       18X       55X       1/10W       R446       1-216-053-00 WETAL CHIP       1.7X       55X       1/10W         R171       1-216-010-00 METAL CHIP       10       55X       1/10W       R440       1-216-053-00 METAL CHIP       2.7X       55X       1/10W         R171       1-216-010-00 METAL CHIP       10       55X       1/10W       R410       1-216-053-00 METAL CHIP       1.8X       55X       1/10W         R171       1-216-010-00 METAL CHIP       10       55X       1/10W       R411       1-216-053-00 METAL CHIP       1.8X       55X       1/10W         R172       1-216-010-00 METAL CHIP       18X       55X	R153	1-216-085-00	METAL CHIP 33K	5%	1/10W			< RESISTOR >			
R155       1-216-081-00 WETAL CHIP       22Å       SX       1/10W         R157       1-216-073-00 WETAL CHIP       18K       SX       1/10W         R158       1-216-073-00 WETAL CHIP       18K       SX       1/10W         R151       1-216-073-00 WETAL CHIP       18K       SX       1/10W         R151       1-216-073-00 WETAL CHIP       18K       SX       1/10W         R151       1-216-073-00 WETAL CHIP       1K       SX       1/10W         R151       1-216-043-00 METAL CHIP       1K       SX       1/10W         R171       1-216-010-00 METAL CHIP       1K       SX       1/10W         R172       1-216-010-00 METAL CHIP       1K       SX       1/10W         R173       1-216-010-00 METAL CHIP       1K       SX       1/10W         R174       1-216-010-00 METAL CHIP       1K       SX       1/10W         R174       1-216-030-00 METAL CHIP       1K       SX       1/10W	R154	1-216-085-00	METAL CHIP 33K	5%	1/10W						
R157       1-216-073-00 METAL CHIP       18K       SS       1/10W         R153       1-216-073-00 METAL CHIP       18K       SS       1/10W         R153       1-216-073-00 METAL CHIP       18K       SS       1/10W         R154       1-216-043-00 METAL CHIP       18K       SS       1/10W         R151       1-216-043-00 METAL CHIP       18K       SS       1/10W         R171       1-216-043-00 METAL CHIP       10       SS       1/10W       R406       1-216-063-00 METAL CHIP       2.7K       SS       1/10W         R171       1-216-010-00 METAL CHIP       10       SS       1/10W       R407       1-216-030-00 METAL CHIP       2.7K       SS       1/10W         R171       1-216-001-00 METAL CHIP       10       SS       1/10W       R407       1-216-030-00 METAL CHIP       3.8K       SS       1/10W         R172       1-216-010-00 METAL CHIP       10       SS       1/10W       R411       1-216-030-00 METAL CHIP       3.8K       SS       1/10W         R171       1-216-030-00 METAL CHIP       1.8K       SS       1/10W       R412       1-216-030-00 METAL CHIP       3.8K       SS       1/10W         R110       1-216-030-00 METAL CHIP       3.8K	R155	1-216-093-00	METAL CHIP 68K	5%	1/10W	R402	1-216-065-00	METAL CHIP	4.7K	- 5%	1/10W
R158       1-216-073-00 METAL CHIP       1.8K       5K       1/10W         R158       1-216-073-00 METAL CHIP       1.8K       5K       1/10W         R150       1-216-073-00 METAL CHIP       1.8K       5K       1/10W         R160       1-216-063-00 METAL CHIP       1.8K       5K       1/10W         R171       1-216-003-00 METAL CHIP       10       5K       1/10W         R172       1-216-001-00 METAL CHIP       10       5K       1/10W         R173       1-216-001-00 METAL CHIP       10       5K       1/10W         R174       1-216-001-00 METAL CHIP       1.8K       5K       1/10W         R174       1-216-001-00 METAL CHIP       1.8K       5K       1/10W         R174       1-216-003-00 METAL CHIP       1.8K       5K       1/10W         R174       1-216-003-00 METAL CHIP       1.8K       5K       1/10W	R156	1-216-081-00	METAL CHIP 22K	5%	1/10W	R403	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R158       1-216-073-00 METAL CHIP       18K       SX       1/10W         R159       1-216-073-00 METAL CHIP       1K       SX       1/10W         R150       1-216-073-00 METAL CHIP       1K       SX       1/10W         R171       1-216-003-00 METAL CHIP       1K       SX       1/10W         R171       1-216-001-00 METAL CHIP       10       SX       1/10W         R172       1-216-001-00 METAL CHIP       10       SX       1/10W         R173       1-216-001-00 METAL CHIP       10       SX       1/10W         R174       1-216-003-00 METAL CHIP       10       SX       1/10W         R174       1-216-013-00 METAL CHIP       18K       SX       1/10W         R174       1-216-033-00 METAL CHIP       18K       SX       1/10W         R141       1-216-033-00 METAL CHIP       18K       SX       1/10W         R141       1-216-033-00 METAL CHIP       18K       SX       1/10W	R157	1-216-079-00	METAL CHIP 18K	5%	1/10W		1-216-079-00	METAL CHIP			1/10W
R156       1-216-073-00 METAL CHIP       18K       5K       1/10W         R160       1-216-043-00 METAL CHIP       1K       5K       1/10W       R407       1-216-03-00 METAL CHIP       5K       1/10W         R171       1-216-001-00 METAL CHIP       10       5K       1/10W       R408       1-216-03-00 METAL CHIP       5K       1/10W         R172       1-216-001-00 METAL CHIP       10       5K       1/10W       R408       1-216-03-00 METAL CHIP       5K       1/10W         R173       1-216-001-00 METAL CHIP       10       5K       1/10W       R411       1-216-03-00 METAL CHIP       5K       1/10W         R174       1-216-03-00 METAL CHIP       10       5K       1/10W       R411       1-216-03-00 METAL CHIP       5K       1/10W         R141       1-216-03-00 METAL CHIP       10       5K       1/10W       R412       1-216-03-00 METAL CHIP       5K       1/10W         R141       1-238-016-11 RES, ADJ, CARBON 10K (TRACKING GAIN)       R414       1-216-03-00 METAL CHIP       5K       5K       1/10W         R102       1-238-016-11 RES, ADJ, CARBON 10K (TRACKING GAIN)       R415       1-216-03-00 METAL CHIP       5K       5K       1/10W         R102       1-238-016-11 RES, ADJ, CARBON											
R160       1-218-03-00       METAL CHIP       1K       55K       1/10W       R407       1-218-03-00       METAL CHIP       1K       55K       1/10W         R171       1-218-03-00       METAL CHIP       10       55K       1/10W       R408       1-218-03-00       METAL CHIP       6.6K       55K       1/10W         R172       1-218-03-00       METAL CHIP       10       55K       1/10W       R408       1-218-038-00       METAL CHIP       6.6K       55K       1/10W         R174       1-218-030-00       METAL CHIP       10       55K       1/10W       R408       1-218-039-00       METAL CHIP       5.6K       55K       1/10W         R174       1-218-030-00       METAL CHIP       10       55K       1/10W       R411       1-218-039-00       METAL CHIP       5.6K       55K       1/10W         R111       1-218-039-00       METAL CHIP       1.6K       55K       1/10W       R411       1-218-039-00       METAL CHIP       5.5K       1/10W         R111       1-218-039-00       METAL CHIP       5.5K       1/10W       R411       1-218-039-00       METAL CHIP       5.5K       1/10W         R110       1-238-018-01       0.5K       0.5K	R158	1-216-079-00	METAL CHIP 18K	5%		R406	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R171       1-216-001-00 METAL CHIP       10       5%       1/10W       R488       1-216-030-00 METAL CHIP       18K       5%       1/10W         R173       1-216-001-00 METAL CHIP       10       5%       1/10W       R409       1-216-030-00 METAL CHIP       3.5K       5%       1/10W         R174       1-216-001-00 METAL CHIP       10       5%       1/10W       R411       1-216-030-00 METAL CHIP       3.5K       5%       1/10W         R174       1-216-001-00 METAL CHIP       10       5%       1/10W       R411       1-216-030-00 METAL CHIP       3.5K       5%       1/10W         R174       1-216-030-00 METAL CHIP       1.5K       5%       1/10W       R411       1-216-030-00 METAL CHIP       3.5K       5%       1/10W         R174       1-238-015-11 RES. ADJ. CARBON 10K (TRACKING GAIN)       R415       1-216-059-00 METAL CHIP       3.5K       5%       1/10W         R110       1-572-085-11 RES. ADJ. CARBON 10K (TRACKING GAIN)       R416       1-216-059-00 METAL CHIP       3.5K       5%       1/10W         R415       1-216-059-00 METAL CHIP       3.5K       5%       1/10W       R418       1-216-059-00 METAL CHIP       3.5K       5%       1/10W         S101       1-572-085-11 RES. ADJ. CARBON	R159	1-216-079-00	METAL CHIP 18K	5%							
R172       1-216-001-00 METAL CHIP       10       5%       1/10W         R173       1-216-001-00 METAL CHIP       10       5%       1/10W         R174       1-216-001-00 METAL CHIP       10       5%       1/10W         R171       1-216-003-00 METAL CHIP       18K       5%       1/10W         R111       1-216-003-00 METAL CHIP       18K       5%       1/10W	R160	1-216-049-00	METAL CHIP 1K	5%	1/10W	R407	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R173       1-216-001-00 METAL CHIP       10       5%       1/10W         R174       1-216-001-00 METAL CHIP       10       5%       1/10W         R141       1-216-001-00 METAL CHIP       10       5%       1/10W         R141       1-216-001-00 METAL CHIP       10       10       10       10         R141       1-216-001-00 METAL CHIP       10       10       10       <	R171	1-216-001-00	METAL CHIP 10	5%	1/10W	R408	1-216-079-00	METAL CHIP	18K	5%	1/10W
R173       1-216-001-00 METAL CHIP       10       5%       1/10W         R174       1-216-001-00 METAL CHIP       2.7K       5%       1/10W         R174       1-216-001-00 METAL CHIP       2.7K       5%       1/10W         R111       1-216-001-00 METAL CHIP       2.7K       5%       1/10W         R111       1-216-001-00 METAL CHIP       2.7K       5%       1/10W         R116       1-216-001-00 METAL CHIP       2.7K       5%       1/10W         R111       1-216-001-00 METAL CHIP       2.7K       5%       1/10W	R172	1-216-001-00	METAL CHIP 10	5%	1/10W	R409	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R174       1-216-001-00 METAL CHIP       10       5X       1/10W         K174       1-216-0179-00 METAL CHIP       18K       5X       1/10W         K174       1-216-0179-00 METAL CHIP       18K       5X       1/10W         RV101       1-238-016-11 RES, ADJ, CARBON 10K (FACKING GAIN)       R412       1-216-059-00 METAL CHIP       5.8K       5X       1/10W         RV102       1-238-016-11 RES, ADJ, CARBON 10K (FOCUS GAIN)       R414       1-216-059-00 METAL CHIP       5.8K       5X       1/10W         RV102       1-238-016-11 RES, ADJ, CARBON 10K (FOCUS GAIN)       R417       1-216-059-00 METAL CHIP       5.8K       5X       1/10W         S101       1-572-085-11 SWITCH, LEAF (LIMIT IN)       R418       1-216-059-00 METAL CHIP       5.8K       5X       1/10W         #4-4617-700-A DISPLAY BOARD, COMPLETE       (MADE IN JAPAN 395)       R422       1-216-059-00 METAL CHIP       5.8K       5X       1/10W         # A-4617-774-A DISPLAY BOARD, COMPLETE       (MADE IN JAPAN 395)       R422       1-216-073-00 METAL CHIP       5.8K       5X       1/10W         # 4-2617-774-A DISPLAY BOARD, COMPLETE       (MADE IN JAPAN 395)       R424       1-216-073-00 METAL CHIP       5.8K       5X       1/10W         # 4-2617-774-A DISPLAY BOARD, COMPLETE       (MAD						R410	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
< VARIABLE RESISTOR >       R412       1-215-059-00 METAL CHIP       18K       5%       1/10W         RV101       1-238-016-11 RES. ADJ. CARBON 10K (TRACKING GAIN)       R413       1-216-059-00 METAL CHIP       2.8K       5%       1/10W         RV102       1-238-016-11 RES. ADJ. CARBON 10K (FGCUS GAIN)       R414       1-216-059-00 METAL CHIP       2.7K       5%       1/10W         RV102       1-238-016-11 RES. ADJ. CARBON 10K (FGCUS GAIN)       R415       1-216-059-00 METAL CHIP       2.7K       5%       1/10W          < SWITCH >       R416       1-216-059-00 METAL CHIP       6.8K       5%       1/10W         \$101       1-572-085-11 SWITCH. LEAF (LIMIT IN)       R418       1-216-063-00 METAL CHIP       2.7K       5%       1/10W         * A-4617-700-A DISPLAY BOARD, COMPLETE (MADE IN FRANCE M31)       R420       1-216-063-00 METAL CHIP       3.9K       5%       1/10W         * A-4617-709-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN 935)       R421       1-216-053-00 METAL CHIP       3.9K       5%       1/10W         * A-4617-704-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN 935)       R422       1-216-053-00 METAL CHIP       3.9K       5%       1/10W         * A-4617-714-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN 935)       R424       1-216-073-00 METAL CHIP       3.9K       5% </td <td>R173</td> <td>1-216-001-00</td> <td>METAL CHIP 10</td> <td>5%</td> <td>1/10W</td> <td>R411</td> <td>1-216-059-00</td> <td>METAL CHIP</td> <td>2.7K</td> <td>5%</td> <td>1/10W</td>	R173	1-216-001-00	METAL CHIP 10	5%	1/10W	R411	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
< VARIABLE RESISTOR >       R413       1-216-083-00 WETAL CHIP       6.8K       5%       1/10W         RV101       1-238-016-11       RES, ADJ, CARBON 10K (TRACKING GAIN)       R414       1-216-083-00 WETAL CHIP       3.9K       5%       1/10W         RV102       1-238-016-11       RES, ADJ, CARBON 10K (FOCUS GAIN)       R414       1-216-039-00 WETAL CHIP       3.9K       5%       1/10W         < SWITCH >         R415       1-216-039-00 WETAL CHIP       6.8K       5%       1/10W         < SWITCH >        R417       1-216-039-00 WETAL CHIP       6.8K       5%       1/10W         < SWITCH >       R418       1-216-039-00 WETAL CHIP       5.8K       5%       1/10W         ************************************	R174	1-216-001-00	METAL CHIP 10	5%	1/10W						
RV101       1-238-016-11 RES. ADJ. CARBON 10K (TRACKING GAIN)       R414       1-216-053-00 METAL CHIP       3.9K       5%       1/10W         RV102       1-238-016-11 RES. ADJ. CARBON 10K (TRACKING GAIN)       R415       1-216-053-00 METAL CHIP       3.9K       5%       1/10W         RV101       1-238-016-11 RES. ADJ. CARBON 10K (TRACKING GAIN)       R415       1-216-053-00 METAL CHIP       3.9K       5%       1/10W         RV102       -572-085-11 SWITCH.       CMUTCH.       R413       1-216-073-00 METAL CHIP       5%       1/10W         ************************************						R412	1-216-079-00	METAL CHIP	18K	5%	1/10W
RV101       1-238-016-11       RES. ADJ. CARBON 10K (TRACKING GAIN)       R415       1-216-059-00       METAL CHIP       2.7K       5%       1/10W         RV102       - 238-016-11       RES. ADJ. CARBON 10K (FOCUS GAIN)       R415       1-216-059-00       METAL CHIP       2.7K       5%       1/10W          < SWITCH >        R415       1-216-059-00       METAL CHIP       1.8K       5%       1/10W         S101       1-572-085-11       SWITCH, LEAF (LIMIT 1N)       R413       1-216-063-00       METAL CHIP       2.7K       5%       1/10W         ************************************			< VARIABLE RESISTOR	>		R413	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
RV102       1-238-016-11 RES. ADJ. CARBON 10K (FOCUS GAIN)       R416       1-216-079-00 METAL CHIP       18K       5%       1/10W           SWITCH >       R416       1-216-079-00 METAL CHIP       18K       5%       1/10W         S101       1-572-085-11 SWITCH, LEAF (LIMIT IN)       R418       1-216-069-00 METAL CHIP       3.9K       5%       1/10W         ************************************						R414	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
< SWITCH >       R417       1-216-069-00 METAL CHIP       6.8K       5%       1/10W         S101       1-572-085-11 SWITCH, LEAF (LIMIT IN)       R418       1-216-053-00 METAL CHIP       3.9K       5%       1/10W         ************************************	RV101	1-238-016-11	RES, ADJ, CARBON 10	K (TRACK	ING GAIN)	R415	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
S101       1-572-085-11 SWITCH, LEAF (LIMIT IN)       R418       1-216-063-00 METAL CHIP       3. 9K       5K       1/10W         ************************************	RV102	1-238-016-11	RES. ADJ. CARBON 10	K (FOCUS	GAIN)	R416	1-216-079-00	METAL CHIP	18K	5%	1/10₩
S101       1-572-085-11 SWITCH, LEAF (LIMIT IN)       R419       1-216-059-00 METAL CHIP       2.7K       5%       1/10W         ************************************			< SWITCH >			R417	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
************************************						R418	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
************************************	\$101	1-572-085-11	SWITCH, LEAF (LIMIT	1 N)		R419	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
* A-4617-686-A DISPLAY BOARD. COMPLETE (MADE IN FRANCE M31)       R422       1-216-063-00 METAL CHIP       3. 9K       5%       1/10W         * A-4617-709-A DISPLAY BOARD. COMPLETE (MADE IN JAPAN 395)       R421       1-216-063-00 METAL CHIP       2. 7K       5%       1/10W         * A-4617-709-A DISPLAY BOARD. COMPLETE (MADE IN JAPAN 395)       R422       1-216-063-00 METAL CHIP       3. 9K       5%       1/10W         * A-4617-709-A DISPLAY BOARD. COMPLETE (MADE IN JAPAN M31)       R426       1-216-059-00 METAL CHIP       5%       1/10W         * A-4617-774-A DISPLAY BOARD. COMPLETE (MADE IN JAPAN M31)       R426       1-216-073-00 METAL CHIP       5%       1/10W         * 4-923-103-01 HOLDER, FL TUBE       R421       1-216-073-00 METAL CHIP       10K       5%       1/10W         < CAPACITOR >       CAPACITOR >       R432       1-216-073-00 METAL CHIP       10K       5%       1/10W         C401       1-163-038-00 CERAMIC CHIP       0. 1uF       25V       R432       1-216-073-00 METAL CHIP       10K       5%       1/10W         C404       1-124-261-00 ELECT       10uF       25V       R434       1-216-073-00 METAL CHIP       10K       5%       1/10W         C404       1-124-261-00 ELECT       10uF       25V       R434       1-216-073-00 METAL CHIP       10K						R420	1-216-079-00	METAL CHIP	18K	5%	1/10W
(MADE IN FRANCE M31)       R423       1-216-059-00 METAL CHIP       2.7K       5%       1/10W         * A-4617-709-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN 395)       R424       1-216-069-00 METAL CHIP       18K       5%       1/10W         * A-4617-709-A DISPLAY BOARD, COMPLETE (MADE IN FRANCE 395)       R425       1-216-063-00 METAL CHIP       6.8K       5%       1/10W         * A-4617-779-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN M31)       R426       1-216-063-00 METAL CHIP       2.7K       5%       1/10W         * A-4617-774-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN M31)       R427       1-216-073-00 METAL CHIP       2.7K       5%       1/10W         * ***********************************	******	*****	*****	*******	*****	R421	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
* A-4617-700-A DISPLAY BOARD. COMPLETE (MADE IN JAPAN 395)       R424       1-216-079-00       METAL CHIP       18K       5%       1/10W         * A-4617-709-A DISPLAY BOARD. COMPLETE (MADE IN FRANCE 395)       R425       1-216-063-00       METAL CHIP       6.8K       5%       1/10W         * A-4617-774-A DISPLAY BOARD. COMPLETE (MADE IN JAPAN M31)       R426       1-216-073-00       METAL CHIP       3.9K       5%       1/10W         * * A-4617-774-A       DISPLAY BOARD. COMPLETE (MADE IN JAPAN M31)       R426       1-216-073-00       METAL CHIP       3.9K       5%       1/10W         * ***********************************	:	* A-4617-686-A	DISPLAY BOARD, COMP	LETE			1-216-063-00	METAL CHIP	3.9K	5%	1/10W
(MADE IN JAPAN 395)       R425       1-216-069-00 METAL CHIP       6.8K       5%       1/10W         * A-4617-709-A DISPLAY BOARD, COMPLETE (MADE IN FRANCE 395)       R425       1-216-063-00 METAL CHIP       3.9K       5%       1/10W         * A-4617-774-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN M31)       R426       1-216-059-00 METAL CHIP       3.9K       5%       1/10W         * * A-4617-774-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN M31)       R427       1-216-073-00 METAL CHIP       2.7K       5%       1/10W         * * 4-923-103-01 HOLDER, FL TUBE       R429       1-216-073-00 METAL CHIP       10K       5%       1/10W          < CAPACITOR >       R431       1-216-073-00 METAL CHIP       10K       5%       1/10W          < CAPACITOR >       R432       1-216-073-00 METAL CHIP       10K       5%       1/10W          < CAPACITOR >       R432       1-216-073-00 METAL CHIP       10K       5%       1/10W          < CAPACITOR >       R432       1-216-073-00 METAL CHIP       10K       5%       1/10W          < CAPACITOR >       R432       1-216-073-00 METAL CHIP       10K       5%       1/10W         C401       1-124-261-00 ELECT       10uf       20%       50V       R435 </td <td></td> <td></td> <td></td> <td>(MADE IN</td> <td>FRANCE M31)</td> <td></td> <td>1-216-059-00</td> <td>METAL CHIP</td> <td></td> <td>5%</td> <td>1/10W</td>				(MADE IN	FRANCE M31)		1-216-059-00	METAL CHIP		5%	1/10W
* A-4617-709-A DISPLAY BOARD, COMPLETE (MADE IN FRANCE 395)       R426       1-216-063-00 METAL CHIP       3.9K       5%       1/10W         * A-4617-774-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN M31)       R427       1-216-059-00 METAL CHIP       2.7K       5%       1/10W         ************************************	:	* A-4617-700-A					1-216-079-00	METAL CHIP	18K	5%	1/10W
(MADE IN FRANCE 395)         * A-4617-774-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN M31)         ************************************			(MADE	IN JAPAI	N 395)	R425	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
* A-4617-774-A DISPLAY BOARD, COMPLETE (MADE IN JAPAN M31)       R427       1-216-059-00 METAL CHIP       2.7K       5%       1/10W         ************************************	:	* A-4617-709-A			NCF 395)	R426	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
(MADE IN JAPAN M31)       R428       1-216-073-00       METAL CHIP       10K       5%       1/10W         ************************************	:	* A-4617-774-A	•			R427	1-216-059-00	METAL CHIP	2 7K	5%	1/10W
***********************************					AN M31)						-
* 4-923-103-01 HOLDER, FL TUBE       R430       1-216-073-00 METAL CHIP       10K       5%       1/10W         < CAPACITOR >       R431       1-216-073-00 METAL CHIP       10K       5%       1/10W         C401       1-163-038-00 CERAMIC CHIP       0. 1uF       25V       R433       1-216-073-00 METAL CHIP       10K       5%       1/10W         C402       1-124-261-00 ELECT       10uF       25V       R434       1-216-079-00 METAL CHIP       18K       5%       1/10W         C403       1-163-038-00 CERAMIC CHIP       0. 1uF       25V       R435       1-216-079-00 METAL CHIP       18K       5%       1/10W         C404       1-124-261-00 ELECT       10uF       20% 50V       R435       1-216-073-50 METAL CHIP       18K       5%       1/10W         C404       1-124-261-00 ELECT       10uF       20% 50V       R435       1-216-073-52 SWITCH, KEY BOARD (1)       5402       1-554-303-52 SWITCH, KEY BOARD (2)         CN401       1-535-883-11 JUMPER, FILM (WITH TERMINAL) (M31)       \$401       1-554-303-52 SWITCH, KEY BOARD (2)       \$402       1-554-303-52 SWITCH, KEY BOARD (2)       \$404       1-554-303-52 SWITCH, KEY BOARD (3)       \$404       1-554-303-52 SWITCH, KEY BOARD (4)       \$405       1-554-303-52 SWITCH, KEY BOARD (5)       \$405       1-554-303-52 SWITCH,			•								
* 4-923-103-01 HOLDER, FL TUBE       R431       1-216-073-00 METAL CHIP       10K       5%       1/10W         < CAPACITOR >       R431       1-216-073-00 METAL CHIP       10K       5%       1/10W         C401       1-163-038-00 CERAMIC CHIP       0. 1uF       25V       R433       1-216-073-00 METAL CHIP       10K       5%       1/10W         C402       1-124-261-00 ELECT       10uF       20%       50V       R434       1-216-079-00 METAL CHIP       18K       5%       1/10W         C403       1-163-038-00 CERAMIC CHIP       0. 1uF       25V       R435       1-216-079-00 METAL CHIP       18K       5%       1/10W         C404       1-124-261-00 ELECT       10uF       20%       50V       R435       1-216-073-00 METAL CHIP       18K       5%       1/10W         C404       1-124-261-00 ELECT       10uF       20%       50V        <											
C401       1-163-038-00       CERAMIC CHIP       0.       1uF       25V         C402       1-124-261-00       ELECT       10uF       20%       50V         C403       1-163-038-00       CERAMIC CHIP       0.       1uF       25V         C403       1-163-038-00       CERAMIC CHIP       0.       1uF       25V         C404       1-124-261-00       ELECT       10uF       25V         C404       1-124-261-00       ELECT       10uF       25V         C404       1-124-261-00       ELECT       10uF       20%       50V         C404       1-124-261-00       ELECT       10uF       20%       50V         C404       1-124-261-00       ELECT       10uF       20%       50V          CONNECTOR >       \$401       1-554-303-52       SWITCH, KEY BOARD (1)         S402       1-554-303-52       SWITCH, KEY BOARD (2)       \$403       1-554-303-52       SWITCH, KEY BOARD (2)         CN401       1-535-883-11       JUMPER, FILM (WITH TERMINAL) (M31)       \$403       1-554-303-52       SWITCH, KEY BOARD (3)         S404       1-554-303-52       SWITCH, KEY BOARD (4)       \$405       1-554-303-52       SWITCH, KEY BOARD (5) <td>:</td> <td>* 4-923-103-01</td> <td>HOLDER, FL TUBE</td> <td></td> <td></td> <td></td> <td>1-216-073-00</td> <td>METAL CHIP</td> <td></td> <td>5%</td> <td></td>	:	* 4-923-103-01	HOLDER, FL TUBE				1-216-073-00	METAL CHIP		5%	
C401       1-163-038-00       CERAMIC CHIP       0. 1uF       25V         C402       1-124-261-00       ELECT       10uF       20%       50V         C403       1-163-038-00       CERAMIC CHIP       0. 1uF       25V         C404       1-124-261-00       ELECT       10uF       20%       50V         CN401       1-535-883-11       JUMPER, FILM (WITH TERMINAL) (M31)       \$401       1-554-303-52       SWITCH, KEY BOARD (1)         S401       1-554-303-52       SWITCH, KEY BOARD (3)       \$403       1-554-303-52       SWITCH, KEY BOARD (3)         S404       1-554-303-52       SWITCH, KEY BOARD (4)       \$405       1-554-303-52       SWITCH, KEY BOARD (5)			< CAPACITOR >				1-216-073-00	METAL CHIP	10K	5%	1/10W
C401       1-163-038-00       CERAMIC CHIP       0. 1uF       25V       R434       1-216-079-00       METAL CHIP       18K       5%       1/10W         C402       1-124-261-00       ELECT       10uF       20%       50V       R434       1-216-079-00       METAL CHIP       18K       5%       1/10W         C403       1-163-038-00       CERAMIC CHIP       0. 1uF       25V       R435       1-216-079-00       METAL CHIP       18K       5%       1/10W         C403       1-163-038-00       CERAMIC CHIP       0. 1uF       25V        R435       1-216-079-00       METAL CHIP       18K       5%       1/10W         C404       1-124-261-00       ELECT       10uF       20%       50V         SWITCH       (MADE IN JAPAN)          CONNECTOR >        \$401       1-554-303-52       SWITCH, KEY BOARD (1)       \$402       1-554-303-52       SWITCH, KEY BOARD (2)       \$403       1-554-303-52       SWITCH, KEY BOARD (3)       \$404       1-554-303-52       SWITCH, KEY BOARD (4)       \$405       1-554-303-52       SWITCH, KEY BOARD (5)       \$405       1-554-303-52       SWITCH, KEY BOARD (5)       \$405       1-554-303-52       SWITCH, KEY BOARD (5)       \$405       1-554-303-52						R433			10K		
C402       1-124-261-00       ELECT       10uF       20%       50V         C403       1-163-038-00       CERAMIC CHIP       0. 1uF       25V         C404       1-124-261-00       ELECT       10uF       20%       50V         C404       1-124-261-00       ELECT       10uF       20%       50V          C404       1-124-261-00       ELECT       10uF       20%       50V           C404       1-124-261-00       ELECT       10uF       20%       50V            C404       1-124-261-00       ELECT       10uF       20%       50V <t< td=""><td>C401</td><td>1-163-038-00</td><td>CERAMIC CHIP 0.1u</td><td>F</td><td>25V</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	C401	1-163-038-00	CERAMIC CHIP 0.1u	F	25V						
C403       1-163-038-00 CERAMIC CHIP       0. 1uF       25V         C404       1-124-261-00 ELECT       10uF       20% 50V       < SWITCH > (MADE IN JAPAN)          CONNECTOR >       \$401       1-554-303-52 SWITCH, KEY BOARD (1)         CN401       1-535-883-11 JUMPER, FILM (WITH TERMINAL) (M31)       \$403       1-554-303-52 SWITCH, KEY BOARD (2)         CN401       1-535-883-11 JUMPER, FILM (WITH TERMINAL) (M31)       \$403       1-554-303-52 SWITCH, KEY BOARD (3)          < FLUORESCENT INDICATOR >       \$405       1-554-303-52 SWITCH, KEY BOARD (5)	C402	1-124-261-00	ELECT 10uF	20	% 50V	R435	1-216-079-00	METAL CHIP	18K	5%	
<pre></pre>	C403	1-163-038-00	CERAMIC CHIP 0. 1u	F	25V						
CN401       1-535-883-11       JUMPER, FILM (WITH TERMINAL) (M31)       \$402       1-554-303-52       SWITCH, KEY BOARD (2)         CN401       1-535-883-11       JUMPER, FILM (WITH TERMINAL) (M31)       \$403       1-554-303-52       SWITCH, KEY BOARD (3)          < FLUORESCENT INDICATOR >       \$405       1-554-303-52       SWITCH, KEY BOARD (5)	C404	1-124-261-00	ELECT 10uF	205	% 50V		< SWIT	CH > (MADE IN	JAPAN)		
CN401 1-535-883-11 JUMPER. FILM (WITH TERMINAL) (M31) <pre></pre>			< CONNECTOR >			\$401	1-554-303-52	SWITCH, KEY B	IOARD (1)		
<pre>\$404 1-554-303-52 SWITCH, KEY BOARD (4) &lt; FLUORESCENT INDICATOR &gt; \$405 1-554-303-52 SWITCH, KEY BOARD (5) \$100 Statement of the second se</pre>						\$402	1-554-303-52	SWITCH, KEY B	IOARD (2)		
<pre>&lt; FLUORESCENT INDICATOR &gt; S405 1-554-303-52 SWITCH, KEY BOARD (5)</pre>	CN401	1-535-883-11	JUMPER, FILM (WITH	TERMINAL)	) (M31)	\$403	1-554-303-52	SWITCH, KEY B	IOARD (3)		
						\$404					
FLD401 1-519-611-11 INDICATOR TUBE. FLUORESCENT			< FLUORESCENT INDIC	ATOR >		\$405	1-554-303-52	SWITCH, KEY B	10ARD (5)		
	FLD401	1-519-611-11	INDICATOR TUBE. FLU	ORESCENT							

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### CDP-395/M31

DISPLAY HP LODING



Ref. No.	Part No.	Descripti			Remark	Ref. No		
\$406	1-554-303-52			BOARD	(6)	\$421	1-	
S407	1-554-303-52					\$422	1-	
\$408	1-554-303-52	SWITCH, K	EY	BOARD	(8)	\$423	1-	
\$409	1-554-303-52	SWITCH, K	EY	BOARD	(9)	\$424	1-	
\$410	1-554-303-52					\$425	1-	
\$411	1-554-303-52	SWITCH K	FY	ROARD	(11)	\$426	1-	. •
\$412	1-554-303-52					\$427	1-	
\$413	1-554-303-52					\$428	1-	
\$414					(MUSIC SCAN)	\$429	1-	
\$415	1-554-303-52					\$430	1-	
S416	1-554-303-52	SWITCH, K	EY	BOARD	(CONTINUE)			
\$417	1-554-303-52							
\$418	1-554-303-52	SWITCH, K	ΕY	BOARD	(PROGRAM)	X401	1-	- Ę
\$419	1-554-303-52	SWITCH, K	EY	BOARD	(EDIT/TIME FADE)			
\$420	1-554-303-52	SWITCH, K	ΕY	BOARD		*****	****	k a
\$421	1-554-303-52	SWITCH, K	EΥ	BOARD	(₩ <<)		* 1-	- 6
\$422	1-554-303-52	SWITCH, K	ΕY	BOARD	$(\Box)$		* 1-	- 6
S423	1-554-303-52	SWITCH, K	EΥ	BOARD	(11)		* 1-	-6
S424	1-554-303-52						* 1-	-6
\$425	1-554-303-52	SWITCH, K	EY	BOARD	( $ riangle$ open/close)			
\$426	1-554-303-52							
\$427	1-554-303-52							
S428	1-554-303-52					C481	1-	
S429	1-554-303-52 1-554-303-52	SWITCH, K	EY	BOARD	(REPEAT)	C482	1-	
\$430	1-554-303-52	SWITCH, K	EY	BOARD	(FADER)	C483	1-	-1
	< SWIT	CH > (MADE	11	I FRANC	E)			
S401	1-554-303-81	SWITCH, K	ΈY	BOARD	(1)	CN481	* 1-	- {
\$402	1-554-303-81	SWITCH, K	EΥ	BOARD	(2)			
S403	1-554-303-81				••			
S404	1-554-303-81	SWITCH, K	EY	BOARD	(4)			
\$405	1-554-303-81	SWITCH, K	EY	BOARD	(5)	J481	1-	- {
\$406	1-554-303-81				• •			
\$407	1-554-303-81				••			
S408	1-554-303-81	SWITCH, K	EY	BOARD	(8)			
\$409	1-554-303-81	SWITCH, K	EY	BOARD	(9)	L481	1-	- 4
\$410	1-554-303-81	SWITCH, K	EY	BOARD	(10)	L 482	1-	- 4
						L483	1-	- 2
\$411	1-554-303-81							
S412	1-554-303-81				• • • •			
\$413	1-554-303-81							
\$414	1-554-303-81					R481	1-	
\$415	1-554-303-81	SWITCH, K	ΕY	BOARD	(P. SEARCH)	R482	1-	-2
S416	1-554-303-81					*****	*****	: 3
S417	1-554-303-81							
S418	1-554-303-81						* 1-	
			ĽV	00100	TENTE TANE CANES	1	* 1-	ء ـ
S419 S420	1-554-303-81 1-554-303-81						÷ 1-	- t

Ref. No.	Part No. Des	cription	Remark
\$421	1-554-303-81 SWI		(₩ ≪)
\$422	1-554-303-81 SWI		
\$423	1-554-303-81 SWI		
\$424	1-554-303-81 SWI		
\$425	1-554-303-81 SWI		
S426	1-554-303-81 SWI	TCH, KEY BOARD	(CHECK)
\$427	1-554-303-81 SWI	TCH. KEY BOARD	(CLEAR)
S428	1-554-303-81 SWI	TCH. KEY BOARD	(TIME)
\$429	1-554-303-81 SWI	TCH. KEY BOARD	(REPEAT)
\$430	1-554-303-81 SWI	TCH. KEY BOARD	(FADER)
	< C	ERAMIC >	
X401	1-577-358-21 VIB	RATOR. CERAMIC	(4MHz)
******	******	******	******
×	1-637-819-11 HP	BOARD (MADE IN	JAPAN M31)
	: 1-637-819-21 HP		
ż	1-637-905-11 HP	BOARD (MADE IN	JAPAN 395:AEP)
×	1-637-905-21 HP	BOARD (MADE IN	FRANCE 395:AEP)
	***	******	*****
	< 0	APACITOR >	
C481	1-163-009-11 CER	AMEC CHIP 0.	001uF 10% 50V
C482	1-163-009-11 CER		001uF 10% 50V
C483	1-163-038-00 CER		1uF 25V (M31)
			200 (851)
	< 0	ONNECTOR >	
CN481	≤ 1-568-952-11 PIN	. CONNECTOR 3P	
	< 1	ACK >	
J481	1-568-519-41 JAC	K. LARGE TYPE	(HEADPHONES M31/ PHONES 395)
	< 0	01L >	
L481	1-424-090-21 COI	L, LINE FILTER	(395)
L482	1-424-090-21 COI		
L483	1-424-090-21 COI		
	< R	ESISTOR >	
R481	1-216-019-00 MET	AL CHIP 56	5% 1/10W
0400	1 016 010 00 057		Fe/ 4 /4 AU

56 5% 1/10W -216-019-00 METAL CHIP 56 5% 1/10W

#### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-632-202-11 LOADING BOARD (MADE IN JAPAN) -632-202-21 LOADING BOARD (MADE IN FRANCE) \*\*\*\*\*\*\*

# CDP-395/M31

# LODING MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	P	art No.	Description			Remark
		< CONNECTOR >				C343	1	-161-494-00	CERAMIC	0. 022uF		25V
						C344	1	-161-494-00	CERAMIC	0.022uF		25V
CN301	* 1-564-707-11	PIN, CONNECTOR	(SMALL TY	'PE) 5	P	C345	1	-124-477-11	ELECT	47uF	20%	25V
						C346		-164-159-11		0.1uF		50V
		< SWITCH >				C347	1	-124-477-11	ELECT	47uF	20%	25V
\$191	1-572-086-11	SWITCH, LEAF	(LOAD OUT)			C348	1	-164-159-11	CERAMIC	0.1uF		50V
\$192		SWITCH, LEAF				C349	1	-161-494-00	CERAMIC	0.022uF		25V
						C350	1	-124-477-11	ELECT	47uF	20%	25V
******	************	*****	********	*****	*******	C351	1	-161-494-00	CERAMIC	0.022uF		25V
						C352	1	-124-477-11	ELECT	47uF	20%	25V
	* A-461/-688-A	MAIN BOARD, CC	IMPLETE IADE IN FRA	NCF M	31/395)	C353	1	-162-199-31	CFRAMIC	10PF	5%	50V
	* A-4617-701-A	MAIN BOARD, CC				C354		-162-199-31		10PF	5%	50V
		ADE IN JAPAN M3		ralia	n/395:AFP)	C355		-161-494-00		0.022uF	•/•	25V
	•	MAIN BOARD, CC			.,,,	C356		-124-477-11		47uF	20%	
				DEIN	JAPAN M31:E)	C357		-124-472-11		470'uF	20%	
		******	•									
						C361	1	-162-285-31	CERAMIC	180PF	10%	50V
	4-902-345-01	HEAT SINK				C362	1	-162-285-31	CERAMIC	180PF	10%	50V
	7-682-547-09	SCREW +B 3X6				C363	1	-162-283-31	CERAMIC	120PF	10%	50V
						C364	1	-162-283-31	CERAMIC	120PF	10%	50V
		< CAPACITOR >				C365	1	-162-283-31	CERAMIC	120PF	10%	50V
C201	1-124-572-11	FLECT	100uF	20%	63V	C366	1	-162-283-31	CERAMIC	120PF	10%	50V
C202	1-124-907-11		10uF		50V	C367		-161-494-00		0. 022uF		25V
C203	1-124-887-00		3300uF		16V	C368		-161-494-00		0. 022uF		25V
C204	1-124-898-11		4700uF		16V	C371		-106-359-00		4700PF	5%	200V
C205	1-124-927-11		4. 7uF		100V	C372		-106-359-00		4700PF	5%	200V
C206	1-124-907-11	FLECT	10uF	2.0%	50V	C373	1	-106-345-00	MVLAR	0.0012uF	5%	100V
C207	1-124-907-11		10uF		50V	C374		-106-345-00		0.0012uF		100V
C208	1-124-472-11		470uF		10V	C375		-161-494-00		0. 022uF	570	25V
C209	1-124-472-11		470uF		10V	C376		-161-494-00		0. 022uF		25V 25V
C210	1-124-120-11		220uF		25V	C377		-124-477-11		47uF	20%	25V 25V
	• • • • • • • •											
C211	1-124-472-11		470uF		10V	C378		-124-477-11		47uF		25V
C212	1-124-472-11		470uF	20%	10V	C379		-106-349-00		0.0018uF		100V
C221	1-164-159-11		0.1uF		50V	- C380		1-106-349-00		0.0018uF	5%	100V
C301	1-124-477-11		47uF		25V	C392	1	1-164-159-11	CERAMIC	0.1uF		50V
C302	1-124-903-11	ELECI	1uF	20%	50V				< CONNECTOR >			
C311	1-106-383-00	MVLAR	0.047uF	5%	200V				CONNECTOR /			
C312	1-161-374-11		0.0015uF			CN201	¥ 1	-580-230-11	PIN. CONNECTOR	PC BOARD	1 30	
C313	1-161-494-00		0. 022uF	20/1	25V				SOCKET. CONNEC		) 01	
C314	1-162-306-11		0.01uF	2.0%					SOCKET, CONNEC			
C315	1-124-902-00		0. 47uF		50V				PIN. CONNECTOR		PF) 6	p
				2010					PIN, CONNECTOR			
C316	1-161-494-00		0.022uF		25V							
C317	1-164-159-11		0.1uF		50V				< DIODE >			
C321	1-161-494-00		0.022uF		25V							
C331	1-162-208-31		24PF	5%	50V	D201			DIODE 11ES2			
C332	1-106-220-00	MYLAR	0.1uF	5%	100V	D202 D203			DIODE RD6.8ES- DIODE 11ES2	B 1		
C333	1-161-494-00	CERAMIC	0.022uF		25V	D203			DIODE 11ES2			
C335	1-162-205-31		18PF	5%	50V	D204 D205			DIODE 11ES2			
C341	1-161-494-00		0.022uF	V/U	25V	0200	C	115 200 02	DIVUL IILUZ			
C341	1-124-477-11		47uF	20%	25V							
0042	1-124-4/1-11	LLUI	4101	2076	204							

# MAIN

ef.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description			Rema
206	8-719-200-82	DIODE 11ES2				< RESISTOR >			
207	8-719-114-49	DIODE RD7.5JS-B2							
208		DIODE RD5.6ES-B2		R201	1-249-435-11	CARBON	33K	5%	1/4W
	0 110 100 00			R202	1-249-438-11	CARBON	56K	5%	1/4W
09	8-710-107-04	DIODE 188202-1 (MADE IN FRANCE	.)	R203	1-249-429-11		10K	5%	1/4W
		•	.,	R204	1-249-425-11		4. 7K	5%	1/4W
09	8-119-981-03	DIODE 1N4148M (MADE IN JAPAN)						5%	
				R205	1-249-425-11	CARBON	4. 7K	3%	1/4W
41	8-/19-210-21	DIODE 11EQS04				010000	11/	50/	1 / 100
				R206	1-249-417-11		1K	5%	1/4W
351		DIODE 1SS202-1 (MADE IN FRANCE	.)	R207	1-249-417-11		1K	5%	1/4W
151	8-719-987-63	DIODE 1N4148M (MADE IN JAPAN)		R208	1-249-423-11		3.3K	5%	1/4W
				R209	1-249-413-11	CARBON	470	5%	1/4W
		< 10 >		R210	1-249-429-11	CARBON	10K	5%	1/4W
C201	8-759-633-42	IC M5293L		R211	1-249-410-11	CARBON	270	5%	1/4W
C202	8-759+630-21	IC M5290P-16		R214	1-249-417-11	CARBON	1 K	5%	1/4W
203	8-759-945-58			R301	1-249-417-11	CARBON	1 K	5%	1/4W
C301		IC CXD2500AQ		R302	1-249-417-11		1 K	5%	1/4W
C302		IC CXD1244S		R303	1-249-421-11		2. 2K	5%	1/4W
J J U Z	0-102-020-01	10 07012440			1 240 421 11	UNIL DUN	2. 2.0	•••	.,
C303	8-759-917-18	IC SN74HCU04AN		R304	1-249-417-11	CARBON	1 K	5%	1/4W
C305		IC CXD25520		R311	1-249-423-11	CARBON	3. 3K	5%	1/4W
C306	8-759-990-82			R312	1-249-429-11		10K	5%	1/4W
C307	8-759-945-58			R313	1-249-423-11		3. 3K	5%	1/4W
0001	0 100 040 00	10 1040001		R314	1-249-429-11		10K	5%	1/4W
		< JACK >			1 240 420 11	UNIDUN	100	0,0	.,
				R315	1-249-417-11	CARBON	1 K	5%	1/4W
381 1	1-560-443-11	JACK, PIN 4P (LINE OUT)		R316	1-249-417-11		1 K	5%	1/4W
001 7	r i 303 440 ii	SAGR, TTA 41 (ETAE GOT)		R317	1-249-420-11		1. 8K	5%	1/4W
		< COIL >		R318	1-249-441-11		100K	5%	1/4W
				R321	1-249-417-11		160%	5%	1/4₩
331	1-408-403-00	INDUCTOR 3. 3uH		1021	1 245 411 11	UNIDON	IK	Ų/V	17 414
				R322	1-249-417-11	CARBON	1 K	5%	1/4W
		< LINK >		R323	1-249-417-11		1 K	5%	1/4W
		C LINK 7		R324	1-249-418-11		1. 2K	5%	1/4W
6201 A	1-522-595-00	LINK, IC (ICP-N20)		R331	1-249-409-11		220	5%	1/4W
		LINK, IC (ICP-N25)		R332	1-247-887-00		220K	5%	1/4₩
3202 <u>A</u>	1-032-037-00	(107 - N23)		.11352	1-241-001-00	GANDON	2200	576	17 40
		< TRANSISTOR >		R333	1-249-417-11	CARBON	1 K	5%	1/4W
				R334	1-249-409-11	CARBON	220	5%	1/4W
201	8-729-119-76	TRANSISTOR 2SA1175-HFE		R341	1-249-393-11	CARBON	10	5%	1/4W
202	8-729-140-96	TRANSISTOR 2SD774-34		R342	1-249-417-11	CARBON	1 K	5%	1/4W
203	8-729-111-67	TRANSISTOR 2SB1094-L		R347	1-249-441-11	CARBON	100K	5%	1/4W
204		TRANSISTOR DTA144ES							•
205		TRANSISTOR DTC144ES		R348	1-249-429-11	CARBON	10 K	5%	1/4W
				R351	1-249-429-11		10K	5%	1/4W
206	8-729-900-80	TRANSISTOR DTC144ES		R352	1-249-429-11		10K	5%	1/4W
207		5 TRANSISTOR 2SC2458-YGR		R353	1-249-429-11		10K	5%	1/4W
208		B TRANSISTOR 2SB1274SA-RS		R354	1-249-429-11		10K	5%	1/4W
209		2 TRANSISTOR 25C1815-Y			. 210 120 1			0,0	17 116
343		5 TRANSISTOR DTA144ES		R355	1-247-848-1		5.1K	5%	1/4W
040	0-110-000-00	TRANSISION DIA14465		R355	1-249-405-1		100	5%	1/4W
	0 700 000 00	TRANSISTOR DISTANCE		1					
344		TRANSISTOR DTC144ES		R361	1-247-840-00		2.4K	5%	1/4₩
371		) TRANSISTOR 2SC3623A-LK		R362	1-247-840-00		2.4K	5%	1/4W
372		) TRANSISTOR 2SC3623A-LK		R363	1-247-840-00	) CARBON	2.4K	5%	1/4W
373		) TRANSISTOR 2SC3623A-LK							
374	8-729-141-30	) TRANSISTOR 2SC3623A-LK		1					

Note: The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

#### MAIN MOTOR VR

# **POWER SW**

Ref.No.	Part No.	Description			Remark	Ref. No.	Part No.
R364	1-247-840-00	CARBON	2.4K	5%	1/4W		
R365	1-249-432-11	CARBON	18K	5%	1/4W		
R366	1-249-432-11	CARBON	18K	5%	1/4W	CN451 *	1-564-708-
R367	1-249-432-11	CARBON	18K	5%	1/4W		1-564-707-
R368	1-249-432-11	CARBON	18K	5%	1/4W	CN472 *	1-568-941-
R369	1-249-419-11	CARBON	1.5K	5%	1/4W		
R370	1-249-419-11	CARBON	1.5K	5%	1/4W		
R371	1-249-419-11	CARBON	1.5K	5%	1/4W	D471	8-719-970-4
R372	1-249-419-11	CARBON	1.5K	5%	1/4₩		
R373	1-247-887-00	CARBON	220K -	5%	1/4₩		
R374	1-247-887-00	CARBON	220K	5%	1/4W	10451	8-759-981-
R375	1-249-409-11	CARBON	220	5%	1/4W	10471	8-759-962-0
R37-6	1-249-409-11	CARBON	220	5%	1/4₩		
R377	1-249-409-11	CARBON	220	5%	1/4₩		
R378	1-249-409-11	CARBON	220	5%	1/4W		
						R451	1-216-085-0
R379	1-249-425-11		4.7K	5%	1/4W	R452	1-216-085-0
R380	1-249-425-11		4.7K	5%	1/4₩	R453	1-216-079-0
R381	1-249-425-11		4.7K	5%	1/4W	R454	1-216-079-0
R382	1-249-425-11		• 4.7K	5%	1/4W	R455	1-216-059-0
R383	1-249-414-11	CARBON	560	5%	1/4W		
						R456	1-216-059-0
R384	1-249-414-11		560	5%	1/4W	R457	1-216-073-0
R389	1-249-414-11		560	5%	1/4W	R458	1-216-073-0
R390 .	1-249-414-11	CARBON	560	5%	1/4W	R461	1-216-013-0
		< SWITCH >				R462	1-216-013-0
		<pre>N SWITCH &gt;</pre>				R471	1-216-037-0
S201 🖄	1-571-722-11	SWITCH, VOLTA	GE SELEC	TION		R472	1-216-049-0

(VOLTAGE SELECTOR) (M31:E)

< CRYSTAL >

X351 1-579-161-11 VIBRATOR, CRYSTAL (45MHz)

#### 

*	1-637-817-11	MOTOR	VR	BOARD	(MADE	I N	JAPAN M31)
*	1-637-817-21	MOTOR	VR	BOARD	(MADE	IN	FRANCE M31)
	1-637-907-11						
*	1-637-907-21	MOTOR	VR	BOARD	(MADE	I N	FRANCE 395)

#### \*\*\*\*\*\*\*\*\*

\* 4-922-980-01 HOLDER (LED)

#### < CAPACITOR >

C451	1-124-443-00 ELECT	100uF	20%	10V
C452	1-124-443-00 ELECT	100uF	20%	10V
C453	1-163-038-00 CERAMIC	0.1uF		25V (395)
C471	1-124-443-00 ELECT	100uF	20%	10V
C472	1-124-277-11 ELECT	4. 7uF	20%	35V

Ref. No.	Part No.	Descripti	on			Remark
		< CONNECT	OR >			
	1-564-708-11					
	1-564-707-11 1-568-941-11				YPE) !	5P
UNITE .	1 000 541 11		LUIUN	01		
		< DIODE >				
D471	8-719-970-49	DIODE BR4	361F	(LINE OUT	M3 1/I	EVEL 395)
		< 10 >				
10451	8-759-981-86	IC RC4556	МА			
	8-759-962-08					
		< RESISTO	R>			
R451	1-216-085-00	METAL CHI	Р	33K	5%	1/10W
R452	1-216-085-00	METAL CHI		33K		
R453	1-216-079-00	METAL CHI	Р	18K	5%	1/10W
R454	1 - 216 - 079 - 00	METAL CHI	P			1/10W
R455	1-216-059-00	METAL CHI	Р	2.7K	5%	1/10W
R456	1-216-059-00	METAL CHI	Р	2. 7K	5%	1/10W
R457	1-216-073-00	METAL CHI	Р	10K	5%	1/10W
R458	1-216-073-00	METAL CHI	Р	10K	5%	1/10W
R461	1-216-013-00	METAL CHI	Р	33	5%	1/10W
	1-216-013-00			33	5%	1/10W
R471	1-216-037-00	METAL CHI	Р	330	5%	1/10W
R472	1-216-049-00	METAL CHI	Р			1/10W
	1-216-049-00			1K	5%	1/10W

#### < VARIABLE RESISTOR >

RV451 1-238-750-11 RES, VAR, CARBON 10K/10K (PHONE LEVEL) (395)

RV451 1-238-974-11 RES. VAR. CARBON 10K/10K (LINE OUT) (M31)

#### 

\* 1-637-818-11 POWER SW BOARD (MADE IN JAPAN M31) \* 1-637-818-21 POWER SW BOARD (MADE IN FRANCE M31) \* 1-637-906-11 POWER SW BOARD (MADE IN JAPAN 395) \* 1-637-906-21 POWER SW BOARD (MADE IN FRANCE 395) \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

< CONNECTOR >

CN491 \* 1-568-953-11 PIN. CONNECTOR 4P

< SWITCH >

\$491 1-554-118-00 SWITCH, PUSH (1 KEY) (POWER)

Note: The components identified by mark <u>A</u> or dotted line with mark <u>A</u> are critical for safety. Replace only with part number specified.

# POWER SW

Ref. No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
		MISCELLANEOUS *********		x		HARDWARE LIST	
11 A 11 A 11 A 12 A 18 61 A 67 311 * 354	$\begin{array}{c} 1-574-358-31\\ 1-575-651-21\\ 1-575-653-21\\ 1-569-007-11\\ 1-575-160-11\\ 1-575-160-11\\ 1-575-651-21\\ 1-575-651-21\\ 1-575-160-11\\ 1-452-538-11\\ 1-575-001-11\end{array}$	CORD. POWER (MADE IN FRANC CORD. POWER (WITH CONNECTOR) CORD. POWER (MADE IN JAPAN CORD. POWER (E) ADAPTOR. CONVERSION 2P (M3 WIRE. FLAT TYPE (22 CORE) CORD. POWER (MADE IN FRANC CORD. POWER (MADE IN JAPAN WIRE. FLAT TYPE (22 CORE) MAGNET WIRE. FLAT TYPE (12 CORE) DEVICE. OPTICAL KSS-240A	) (Australian) :AEP) 1:E) E 395:AEP)	# 1 # # 2 # 2 3 4 5 6 7 # 7	7-682-547-04 7-682-547-09 7-685-646-79 7-621-775-10 7-685-134-19	SCREW +BVTT 3X8 SCREW +BVTT 3X6 SCREW +B 3X6 SCREW +BVTP 3X8 SCREW +B 2.6X4 SCREW +BTP 2.6X8 SCREW +P 2X3	
CN401 CN401 D471 FLD401 M101 M102 M191 Y	1-535-883-11 8-719-970-49 1-519-611-11 X-4917-504-1 X-4917-523-3	JUMPER, FILM (WITH TERMINA JUMPER, FILM (WITH TERMINA DIODE BR4361F (PHONE LEVEL INDICATOR TUBE, FLUORESCEN MOTOR, ASSY (SLED) MOTOR, ASSY (SPINDLE) MOTOR (L) ASSY (LOADING)	L) 395)				
T901 ⚠ T901 ⚠	1-449-923-11 1-449-925-11	TRANSFORMER, POWER (MADE IN JAPAN M31:AEP, A TRANSFORMER, POWER (M31:E) TRANSFORMER, POWER(MADE IN TRANSFORMER, POWER (MADE IN JAPAN	FRANCE M31: AEP)				
T901 🕭	1-449-925-11	TRANSFORMER. POWER (MADE IN FRANC	E 395:AEP)				
******	******	********	*****				
		Y & PACKING MATERIAL ******					
	1-465-598-11	COMMANDER, REMOTE (RM-D391 (MADE IN J					
	1-465-598-21	COMMANDER. REMOTE (RM-D391 (MADE IN F	)				
	2-181-754-01 3-752-735-11 3-752-735-41	CORD, CONNECTION COVER (MLY), BATTERY MANUAL, INSTRUCTION (MADE IN JAP SPANISH, POR' MANUAL, INSTRUCTION (MADE IN JAPA DUTCH, SWEDIS MANUAL, INSTRUCTION (MADE IN FRAN	AN) (English, FRENCH, IUGUESE) N: AEP) (GERMAN, IH, ITALIAN)				
		SPANISH, PORTI MANUAL, INSTRUCTION (MADE IN FRAM	JGUESE) CE) (GERMAN, DUTCH,				
* * * * * * *	$\begin{array}{c} 4-925-389-01\\ 4-927-355-02\\ 4-929-506-02\\ 4-941-548-01\\ 4-939-718-31\\ 4-942-897-01\\ 4-942-898-01 \end{array}$	SWEDISH, ITALI CUSHION (MADE IN JAPAN M31) CUSHION (MADE IN JAPAN 395) CUSHION (MADE IN FRANCE M3 CUSHION (MADE IN FRANCE 39 LABEL, CLASS 1 INDIVIDUAL CARTON (MADE IN INDIVIDUAL CARTON (MADE IN INDIVIDUAL CARTON (MADE IN INDIVIDUAL CARTON (MADE IN	) 1:AEP) 5) JAPAN 395) FRANCE 395) FRANCE M31)				

Note: The components identified by mark  $\underline{\mathbb{A}}$  or dotted line with mark  $\underline{\mathbb{A}}$  are critical for safety. Replace only with part number specified.

CDP-395/M31

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