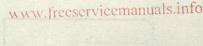


Free service manuals Gratis schema's

Digitized by



AEP Model **UK Model**





FM-AM PROGRAM RECEIVER

SPECIFICATIONS

GENERAL

Power Requirements: 240V ac, 50Hz(UK model) 120V, 220V or 240V ac adjustable,

50Hz(AEP model)

Power Consumption: 210W(UK model)

180W(AEP model)

Dimensions: Approx.410(w)x145(h)x310(d)mm

16(w) x5 3/4 (h) x12 1/8 (d) inches

including projecting parts and

controls

Weight: Approx.7.6kg, 16 lb 13 oz (net)

Approx. 8.8kg, 19 lb 7 oz (in shipping carton)

FM SECTION

Frequency Range: 87.5-108MHz

Antenna: 300 Ω balanced

75 Ω unbalanced

Intermediate

Frequency: 10.7MHz

Sensitivity at

50dB Quieting: 3.5µV (10.7dB) (MONO)

45µV (33dB) (STEREO)

Sensitivity

at 46dB Quieting: 4µV (12dB) (MONO)

(at 40kHz deviation) 50µV (34dB) (STEREO)

Usable Sensitivity: 1.8µV (5dB), IHF

(at 40kHz deviation) 1.6µV (4dB), S/N=26dB

S/N Ratio: 75dB (MONO)

70dB (STEREO)

Harmonic Distortion: At 100Hz

0.2% (MONO) 0.3% (STEREO)

At 1kHz

0.2% (MONO) 0.3% (STEREO)

At 10kHz

0.3% (MONO) 0.5% (STEREO)

IM Distortion: 0.2% (MONO)

0.3% (STEREO) Separation: 30dB at 100Hz

45dB at 1 kHz

35dB at 10kHz

Frequency Response: 40-12, 500Hz ^{+0.5}_{-1.0} dB 30-15, 000Hz ^{+0.5}_{-2.0} dB

- Continued on page 2 -

SAFETY RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS 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.



Selectivity: 60dB (400kHz)

40dB (300kHz, S/N=26dB, 40kHz

deviation)

Capture Ratio: 1.0dB AM Suppression Ratio: 54dB Image Response Ratio: 45dB IF Response Ratio: 90dB Spurious Response Ratio: 75dB RF Intermodulation: 60dB

Muting Threshold: Approx.5µV

SW/MW/LW SECTION

Frequency Range: SW: 5.8-15.8MHz

MW: 530-1,605kHz LW: 150-350kHz

Antenna: SW/MW: External antenna terminal Attached antenna wire

LW: Built-in Ferrite-rod antenna External antenna terminal

Intermediate

Frequency: 468kHz

Usable Sensitivity: SW: 30µV (29.5dB),

external antenna (10MHz)

MW: 100µV (40dB),

external antenna (1,000kHz)

LW: 500µV/m (53.8dB/m), built-in antenna

100µV (40dB).

external antenna (230kHz)

S/N Ratio: SW/MW: 52dB (5mV)

LW: 52dB (50mV/m)

Harmonic Distortion: SW/MW: 0.3% (5mV, 400Hz)

LW: 0.3% (50mV/m, 400Hz)

Selectivity: 28dB (9kHz)

30dB (10kHz)

AUDIO AMPLIFIER SECTION

Continuous RMS

Power Output: Less than 0.5% THD, both channels

driven simultaneously At 20-20, 000Hz 25W+25W (8 Ω)

At 1kHz

27W+27W (8 Ω) According to DIN 45500 25W+25W (8 Ω) 25W+25W (4 Ω , less than

0.7% THD)

Dynamic Power Output: IHF constant power supply method

90W (8 Ω)

Power Bandwidth: 10-40, 000Hz, IHF Damping Factor: 20 at 1kHz (8 Ω)

Harmonic Distortion: Less than 0.5% at rated output (8 Ω)

Less than 0.7% at rated output (4 Ω) Less than 0.2% at 1W output (8 Ω) Less than 0.3% at 1W output (4Ω)

IM Distortion: Less than 0.5% at rated output (60Hz: 7kHz=4:1) Less than 0.2% at 1W output Residual Noise: Less than 0.08μW (at 8Ω)

Frequency Response: PHONO:

RIAA equalization curve ±1 dB

TAPE:

PE: 10-50, 000 Hz + 1dB - 3dB

Inputs:

	Sensitivity	Impedance	S/N	Weighting network
PHONO	2.5mV (-50dB)	50 kΩ	70 dB	А
TAPE	150mV (-15.5dB)	100 kΩ	90 dB	А

Measured with rated output power into 8Ω loads (both channels driven simultaneously) at 1kHz.

Outputs:

(with rated input)

11/20	Voltage	Impedance
REC OUT	150mV (-15.5dB)	10 kΩ

Accepts all low or high impedance Headphones:

headphones

Speaker: $4-16 \Omega$ speakers are suitable.

Tone Controls: BASS ±8dB at 100Hz

TREBLE ±8dB at 10kHz

Loudness Control: +8dB at 100Hz (att. 30dB) +3dB at 10kHz

MODEL IDENTIFICATION

- Rear Panel -

AEP model

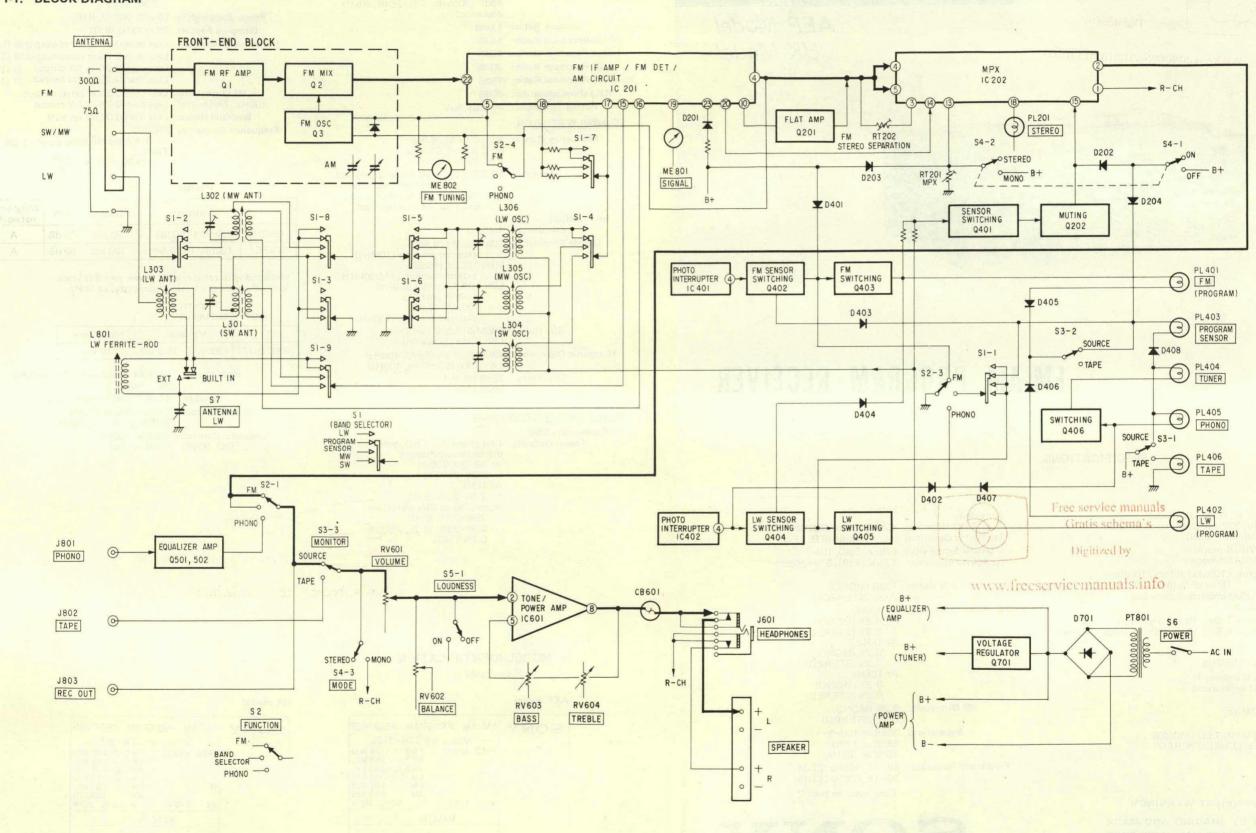
SONY	FM-A	M	PR	0 G	RAN	A R	ECE	IVER
		MOD	EL	N	D,ST	R-3	131	
	FREQ	RAN	IGE	:				
								S MHz
	1 3 4							O K Hz
	IF			:				7 MHz
	AC:	220	V		AM			8 K H z 180 W
	AC.			JAV.		50	112	100 #
			MAD	E	IN			
	SIRI	ALN	0					

UK model

SONY	FM-A	M PR				
- F- 1	FREQ	MODEL		FM 8		8 MH 8
	l F		1	LW	150-35	
	AC:	240 V		\sim	50 Hz	
		MAI	DE	IN		
	SIRI	AL NO				

SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM



1-2. CIRCUIT DESCRIPTION (See Fig. 1)

Program Sensor

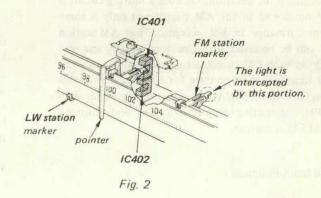
When the band selector switch (S1) and FUNC-TION switch (S2) are set to PROGRAM position and band selector position respectively and the pointer matches with a station marker, FM or LW station is automatically selected through optical detection. (Fig. 2)

- When the pointer matches only with the FM station marker:
 - a) The light of IC401 (Photo Interrupter) is intercepted by the marker, bias voltage is applied to the base of Q402 through R405, and Q402 is turned on.
 - b) The collecter voltage of Q402 reduces and D401 is turned on.
 - c) The terminal 23 of IC201 is grounded through D201, R204, D401, Q402 and D403.
 - d) FM circuit operates (The terminal 23) of IC201 serves as a switch).

Note: When B + voltage is applied to the terminal 23 of IC201 through R401, R204 and D201, the receiver is in AM mode. At the same time, as Q403 is on, PL401 (FM indicator lamp) lights.

- 2) When the pointer matches only with the LW station marker:
 - a) As the light of IC401 is not intercepted, Q402 and D401 are turned off. As a result, B + voltage is applied to the terminal 23 of IC201 through R401 and R204. On the other hand, the light of IC402 is intercepted by the LW station marker.
 - b) Q404 and Q405 are turned on.
 - B + voltage is applied to L306 (LW oscillator coil).
 - d) LW circuit operates. When Q405 is on, PL402 (LW indicator lamp) simultaneously lights.

- 3) When the pointer matches simultaneously with both the FM and LW station markers:
 - a) Q402 and Q403 are turned on by intercepting the light of IC401. On the other hand, the light of IC402 is also intercepted and the bias voltage is applied to the base of Q404, but because the collector voltage of Q403 is high, D404 is turned off. The emitter voltage of Q404 rises and B + voltage is not applied to L306 (LW oscillator coil) and PL402. Consequently, only the FM station signal is received.



Q202 and 401

Q401 operates to improve the rise time of PL401 (FM indicator lamp) or PL402 (LW indicator lamp) when tuning the receiver, and at the same time Q401 switches Q202. Q202 serves as a high-speed-muting switch which is turned on or off as soon as the station signal is tuned or detuned.

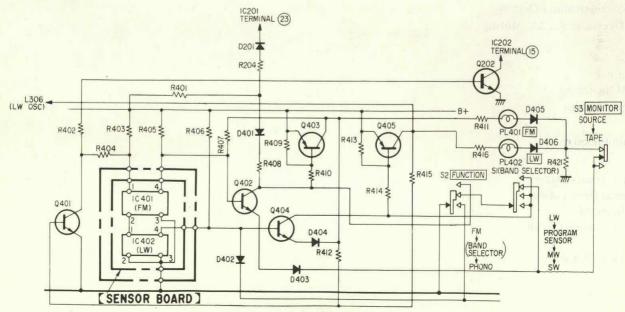


Fig. 1 ____5 __ Digitized in Heiloo, Holland

IC201 (CX168), IC202 (CX178)

These two ICs form a system. Both of them are bipolar-linear-ICs. CX168 integrates 343 elements and CX178 integrates 260 elements. They include many functions and are improved upon the degree of integration now available as a linear-ICs for tuner use. They have high performance in FM reception and form a muting system having an FM muting attenuation of 90dB. In addition, because a muting circuit is newly employed in the AM circuit not only is there high performance in FM reception but AM station signal can be received with fine tone quality and sensitivity as with FM broadcasting station. As an additional function, they operate for FM/AM continuous station selection, FM/AM signal-strength meter output, FM/AM muting output switching and enforced AGC at FM reception.

CX168 Main Function

<FM>

- IF Amplifier
- Quadrature detector
- Signal-strength Meter Output
- Muting Signal Output
- AFC Output for Converter
- Multipath Signal Output
- Bandpass Control Circuit

$\langle AM \rangle$

- RF Attenuator
- Mixer
- Oscillator
- IF Amplifier and AGC
- AM Detector
- Signal-Strength Meter Output
- Signal Generator for AM Muting

<General>

- Regulator
- FM/AM Switching
- Regulator Output

CX178 Main Function

<FM Stereo Demodulator>

- FM Stereo Demodulator
- Phase Detector
- Stereo Indicating Circuit
- VCO
- VCO ON/OFF Circuit

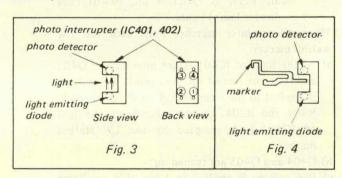
<General>

- Muting Gate
- Regulator
- Muting Canceler Circuit
- Pop-noise Canceler
- Hysteresis Circuit

Photo Interrupter (IC401, 402)

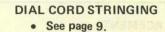
The terminals (1) and (2) of the photo interrupter operate as the light emitting diode. On the other hand, the terminals (3) and (4) operate as the photo detector. When the photo detector receives the light as shown in Fig. 3, the terminal between terminals (3) and (4) is a low-impedance. When light is intercepted by the marker, as shown in Fig. 4, it becomes high-impedance.

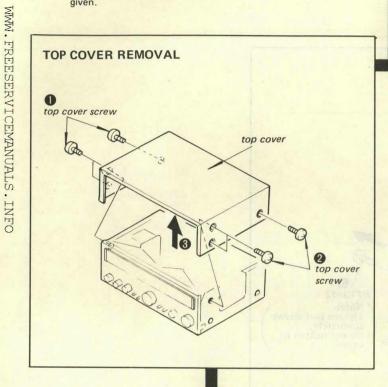
When the photo detector receives the light When light is intercepted

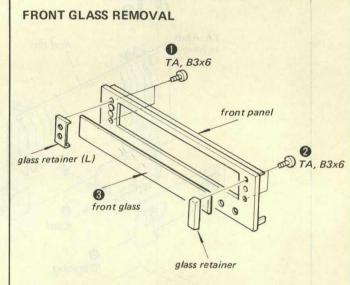


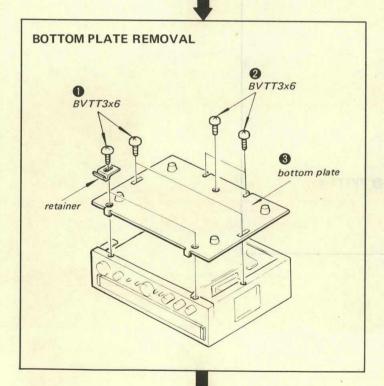
ЬУ

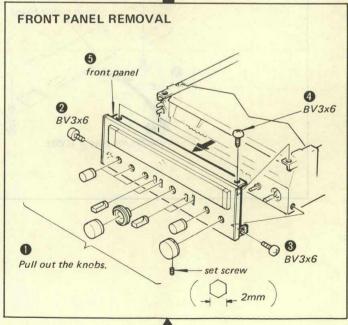


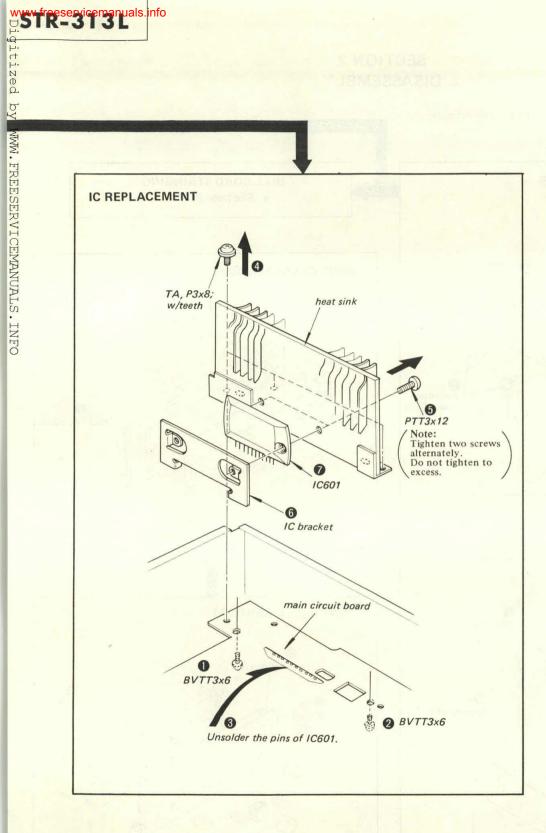


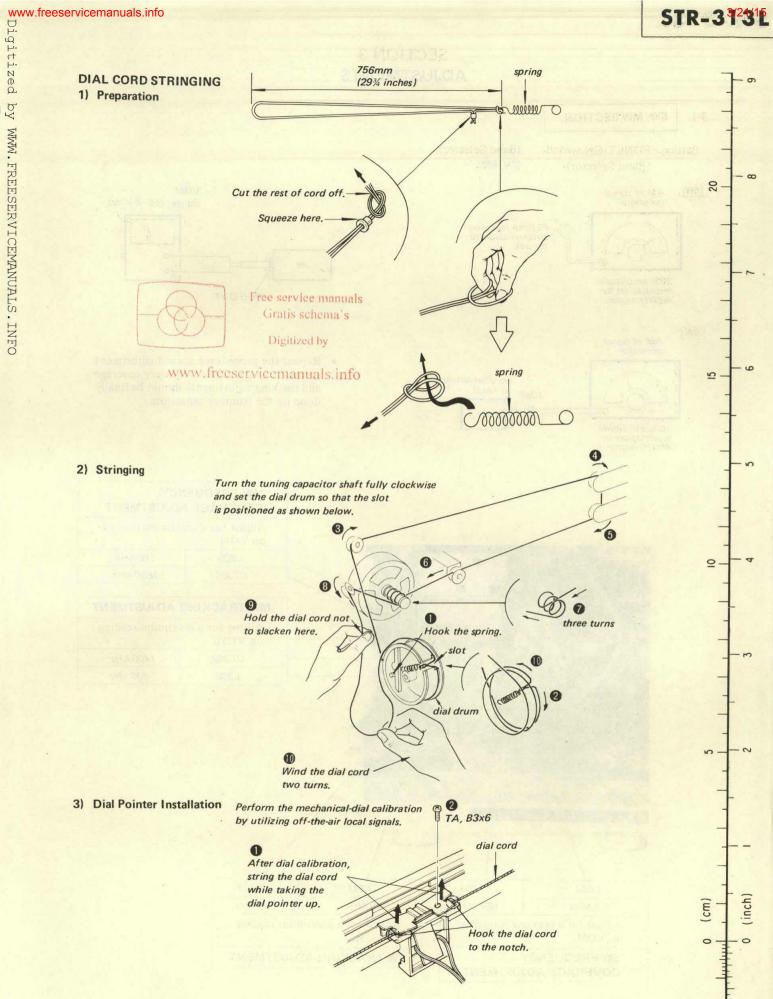












SECTION 3 ADJUSTMENTS

3-1. SW, MW SECTION

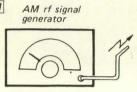
Setting: FUNCTION switch:

(Band Selector)

(Band Selector)

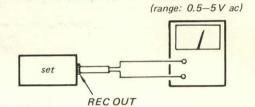
SW. MW





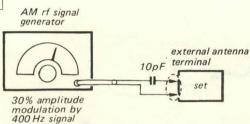
Put the lead-wire antenna close to the set.

30% amplitude modulation by 400 Hz signal

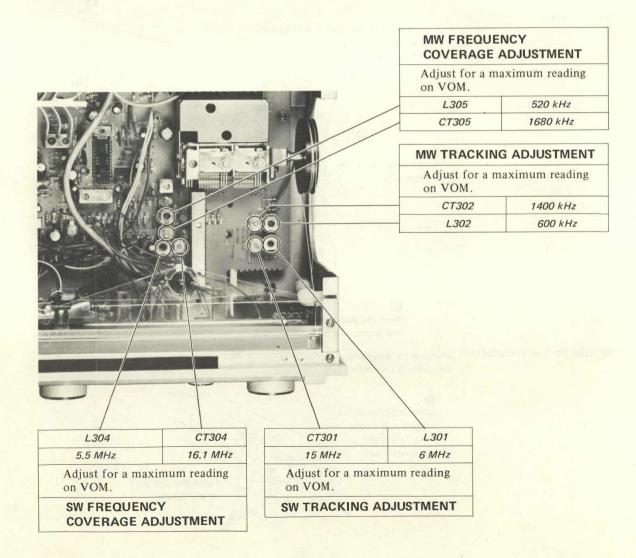


VOM





Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.



3-2. LW SECTION

Setting: FUNCTION switch:

(Band Sèlector)

(Band Selector): LW

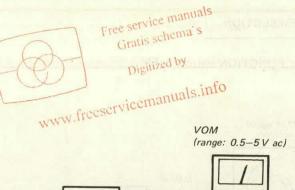
ANTENNA LW switch:

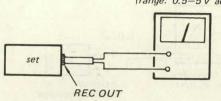
BUILT IN

AM rf signal generator

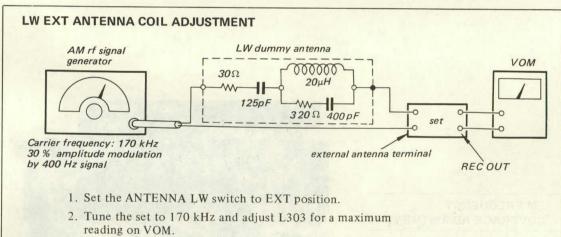
Put the lead-wire antenna close to the set.

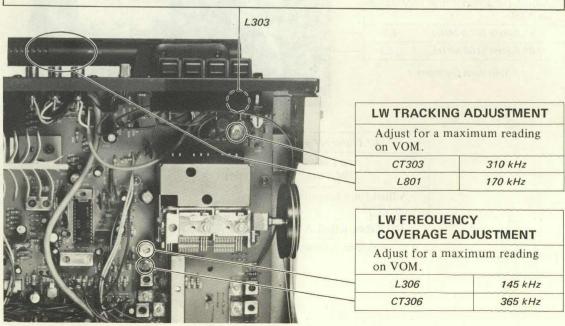
30% amplitude modulation by 400 Hz signal





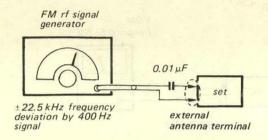
 Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

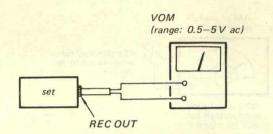




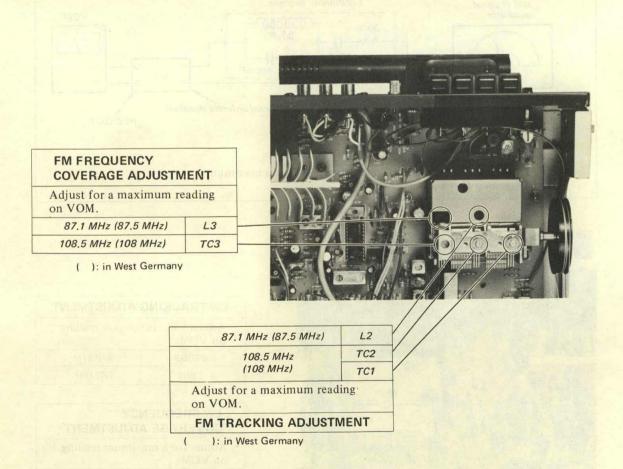
3-3. FM SECTION

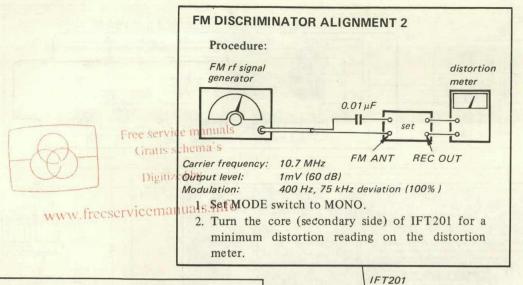
Setting: FUNCTION switch: FM





 Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.





(secondary side: black)

FM STEREO SEPARATION ADJUSTMENT

FM stereo generator FM ANT REC OUT

Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Mode: Stereo Modulation:

Procedure:

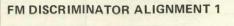
Audio (400 Hz): 67.5 kHz deviation (90%) Pilot (19 kHz): 7.5 kHz deviation (10%)

MODE switch: STEREO

FM stereo signal generator output channel	VTVM connection	VTVM reading
L-CH	L-CH	(A)
R-CH	L-CH	B Adjust RT202 for minimum reading.
R-CH	R-CH	©
L-CH	R-CH	Adjust RT202 for minimum reading.

L-CH Stereo separation: (A) - (B) R-CH Stereo separation: (C) - (D)

The separations of both channels should be equal.



Procedure:

- 1. Detune the set.
- 2. Turn the core (primary side) of IFT201 for nullpoint reading on the FM TUNING meter.



IFT201 (primary side: blue)

RT201

FM rf signal generator FM ANT REC OUT

FM Signal Generator Setting:

Carrier frequency: Modulation:

Output level:

400 Hz, 75 kHz deviation

(100%) 12 µV (21.5dB)

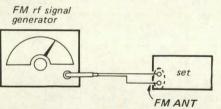
Tune the set to 98 MHz and adjust IFT1 for

MPX ADJUSTMENT

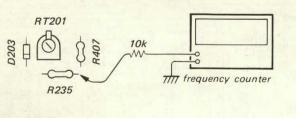
A) Regular Method

FM IF ALIGNMENT

Procedure:



Carrier frequency: 98 MHz Modulation: no modulation Output level: 1 mV (60 dB)



1. Tune the set to 98 MHz.

2. Adjust RT201 for 76 kHz ±100Hz on the counter.

98 MHz

Procedure:

a maximum reading on the VTVM.

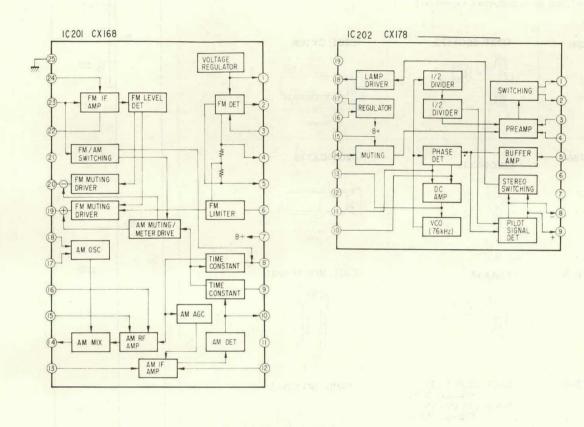
B) Simple Method

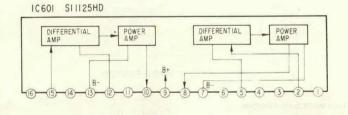
Procedure:

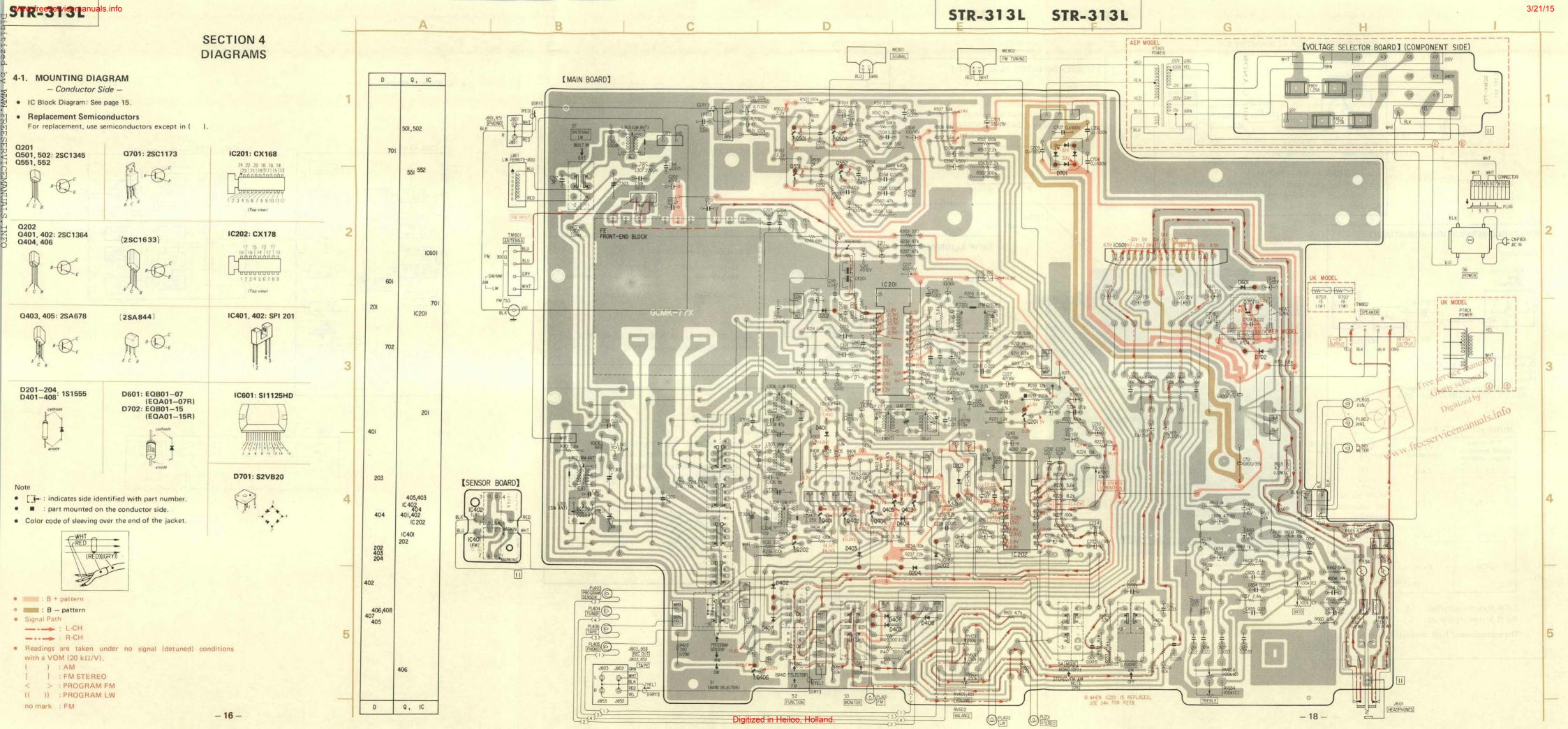
- 1. Tune the set to the FM stereo broadcasting signal.
- 2. Turn RT201 clockwise or counterclockwise and memorize the lighting-up range of STEREO lamp.
- 3. Secure RT201 at the center in lighting-up range of both turns as shown below.

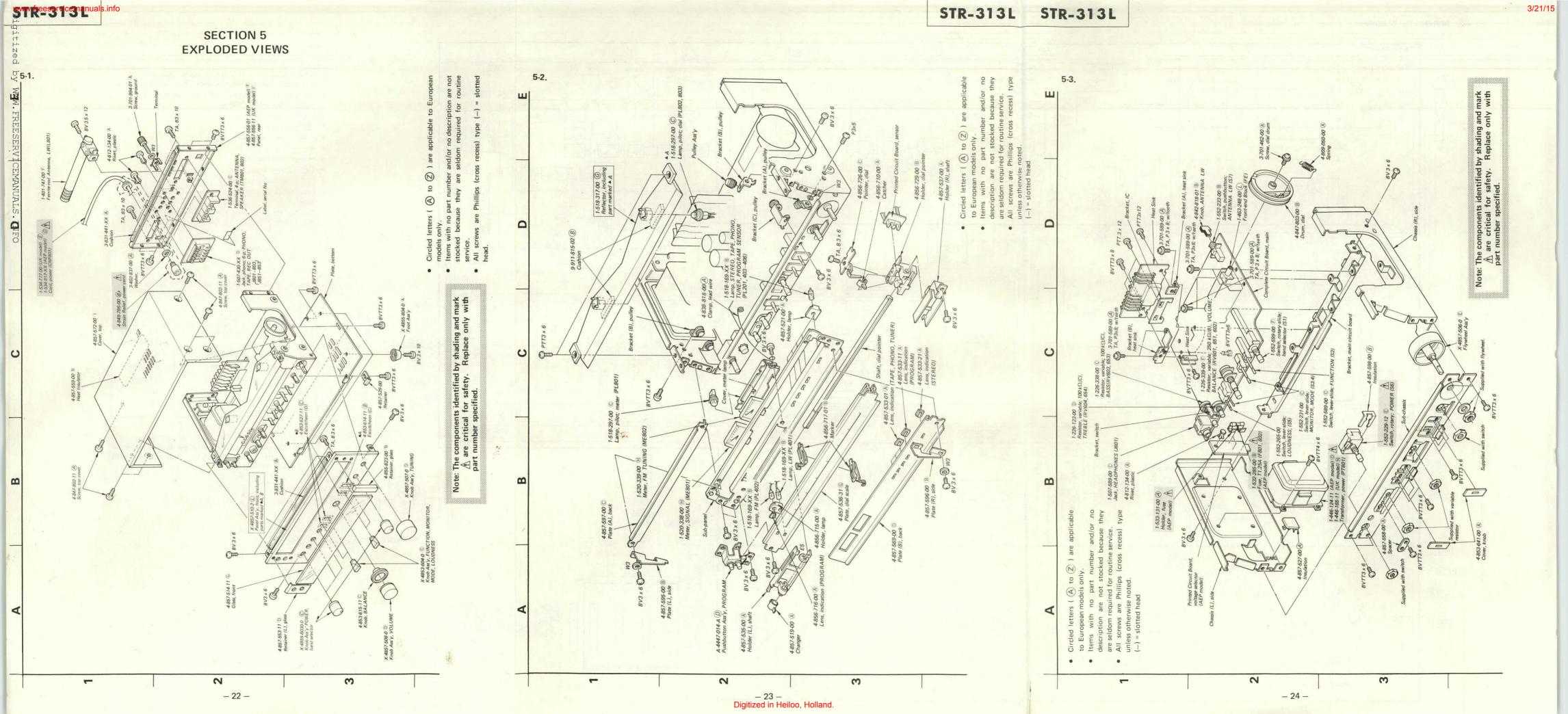


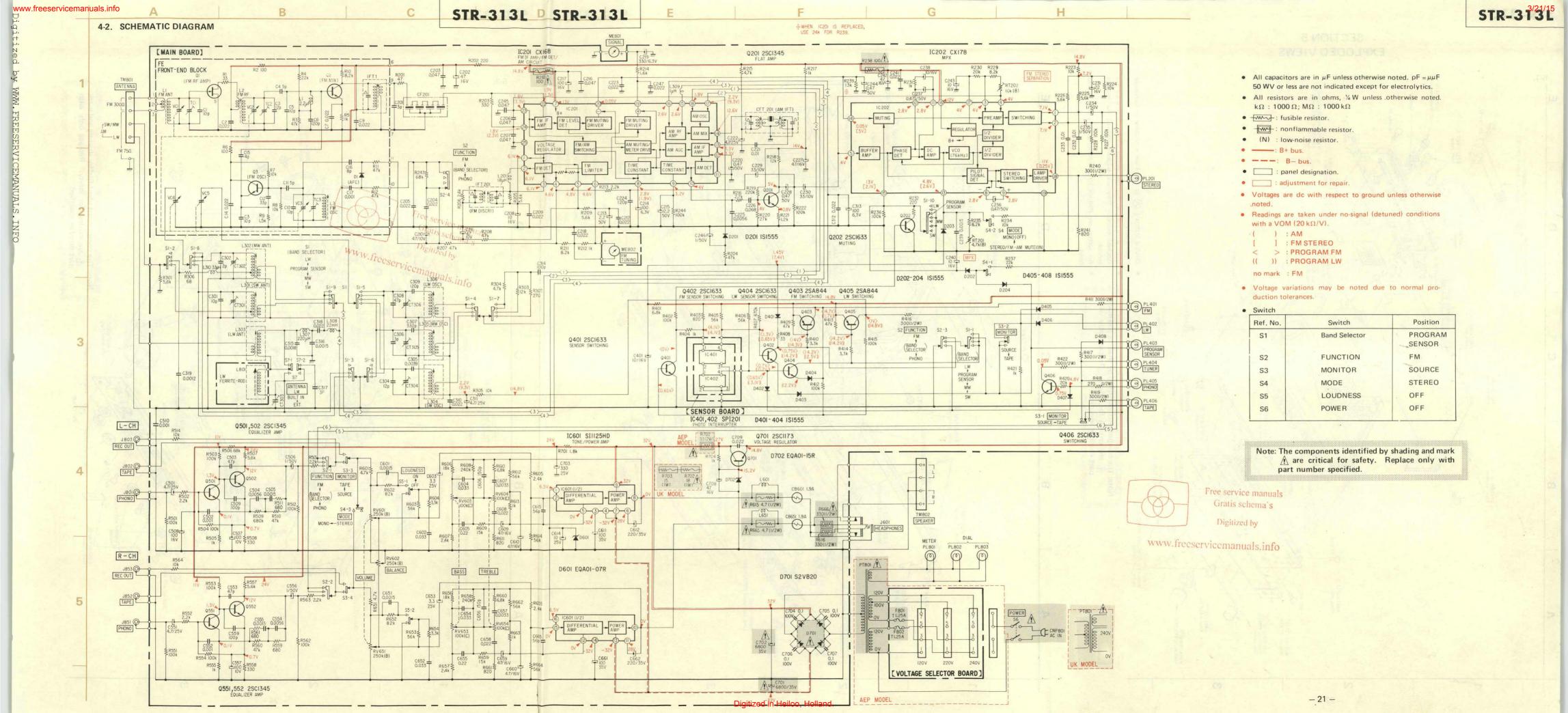
IC Block Diagram











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U

P

Q

P

Ref. No. Part No. 1-206-475-11 (A) 33 2W metal oxide (AEP model) (nonflammable) 1-213-066-11 (A) 18 1W fusible (UK model) 1-213-064-11 (A) 15 1W fusible (UK model) 1-224-644-XX (B) 4.7k-B adjustable; MPX **聚**T202 1-224-645-XX B 10k-B adjustable. FM Stereo separation 1-226-339-00 (F) 250k-B, variable; VOLUME BALANCE RV603, 653 1-226-338-00 (C) 100k-C, variable; BASS BV604, 654 1-226-123-00 D 100k-C, variable; TREBLE **SWITCHES** 1-552-599-00 (F) Rotary-slide, band selector 1-552-589-00 (C) Lever-slide, FUNCTION S3,4 1-552-231-00 (C) Lever-slide, MONITOR, MODE S5 1-552-265-00 © Lever-slide, LOUDNESS 1-552-233-00 (B) Pushbutton, ANTENNA LW

MISCELLANEOUS

CB601,651 1-532-380-61 (E) Circuit Breaker, 1.9A 1-527-277-91 (G) Filter, ceramic /I-534-817-XX D Cord, power (AEP model) ⚠(1-534-777-00 **E** Cord, power (UK model) F801,802 1-532-285-00 B Fuse, T1.25A (AEP model) 1-463-248-00 (L) FM Front End 1-507-589-00 (C) Jack, HEADPHONES J601 1-507-430-XX D Jack, phono; 6p J851-853/ ME801 1-520-338-00 (H) Meter, SIGNAL ME802 1-520-339-00 (H) Meter, FM TUNING PL401-406) 1-518-169-XX (B) Lamp, STEREO, FM, LW, PROGRAM SENSOR, TUNER, PHONO, TAPE PL801-803 1-518-297-00 © Lamp, meter, dial TM801,802 1-536-524-00 © Terminal, 4p; ANTENNA, SPEAKER 1-518-317-00 G Reflector, w/lamp

1-533-131-00 (A) Holder, fuse (AEP model)

 Circled letters (A to Z) are applicable to European models only.

Part No.	Description
1-501-184-00	C Antenna, ribbon; FM
1-501-193-00	B Antenna wire, MW/SW
3-701-622-00	A Bag, plastic (UK model)
3-701-630-00	A Bag, plastic
3-770-594-11	D Manual, instruction
1-857-573-00	B Cushion, lower (left)
1-857-574-00	B Cushion, lower (right)
4-857-575-00	B Cushion, upper
1-857-577-00	(D) Carton
1-891-037-00	B Bag, plastic

1/4 WATT CARBON RESISTORS A

Note: Circled letter (A) is applicable to European models only.

3/21/15

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10 k	1-244-697-11	100 k	1-244-721-11	1.0M	1-244-745-11
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11	11 k	1-244-698-11	110 k	1-244-722-11	1.1M	1-244-746-11
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12 k	1-244-699-11	120 k	1-244-723-11	1.2M	1-244-747-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11	13 k	1-244-700-11	130 k	1-244-724-11	1.3M	1-244-748-11
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15 k	1-244-701-11	150 k	1-244-725-11	1.5M	1-244-749-11
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6 k	1-244-678-11	16 k	1-244-702-11	160 k	1-244-726-11	1.6M	1-244-750-11
1.8	1-244-607-11	18	1-244-631-11	180	1-244-655-11	1.8k	1-244-679-11	18 k	1-244-703-11	180 k	1-244-737-11	1.8M	1-244-751-11
2.0	1-244-608-11	20	1-244-632-11	200	1-244-656-11	2.0 k	1-244-680-11	20 k	1-244-704-11	200 k	1-244-728-11	2.0M	1-244-752-11
2.2	1-244-609-11	22	1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11	22 k	1-244-705-11	220 k	1-244-729-11	2.2M	1-244-753-11
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24 k	1-244-706-11	240 k	1-244-730-11	2.4M	1-244-754-11
2.7	1-244-611-11	27	1-244-635-11	270	1-244-659-11	2.7 k	1-244-683-11	27 k	1-244-707-11	270 k	1-244-731-11	2.7M	1-244-755-11
3.0	1-244-612-11	30	1-244-636-11	300	1-244-660-11	3.0k	1-244-684-11	30 k	1-244-708-11	300 k	1-244-732-11	3.0M	1-244-756-11
3.3	1-244-613-11	33	1-244-637-11	330	1-244-661-11	3.3 k	1-244-685-11	33 k	1-244-709-11	330 k	1-244-733-11	3.3M	1-244-757-11
3.6	1-244-614-11	36	1-244-638-11	360	1-244-662-11	3.6k	1-244-686-11	36 k	1-244-710-11	360 k	1-244-734-11	3.6M	1-244-758-11
3.9	1-244-615-11	39	1-244-639-11	390	1-244-663-11	3.9k	1-244-687-11	39 k	1-244-711-11	390 k	1-244-735-11	3.9M	1-244-759-11
4.3	1-244-616-11	43	1-244-640-11	430	1-244-664-11	4.3 k	1-244-688-11	43 k	1-244-712-11	430 k	1-244-736-11	4.3M	1-244-760-11
4.7	1-244-617-11	47	1-244-641-11	470	1-244-665-11	4.7 k	1-244-689-11	47 k	1-244-713-11	470 k	1-244-737-11	4.7M	1-244-761-11
5.1	1-244-618-11	51	1-244-642-11	510	1-244-666-11	5.1 k	1-244-690-11	51 k	1-244-714-11	510 k	1-244-738-11	5.1M	1-244-762-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6 k	1-244-691-11	56 k	1-244-715-11	560 k	1-244-739-11		
6.2	1-244-620-11	62	1-244-644 11	620	1-244-668-11	6.2k	1-244-692-11	62 k	1-244-716-11	620 k	1-244-740-11	1118	
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6.8k	1-244-693-11	68 k	1-244-717-11	680 k	1-244-741-11	F-69 2	
7.5	1-244-622-11	75	1-244-646-11	750	1-244-670-11	7.5 k	1-244-694-11	75 k	1-244-718-11	750 k	1-244-742-11	Mark.	-DC
8.2	1-244-623-11	82	1-244-647-11	820	1-244-671-11	8.2 k	1-244-695-11	82 k	1-244-719-11	820 k	1-244-743-11		
9.1	1-244-624-11	91	1-244-648-11	910	1-244-672-11	9.1k	1-244-696-11	91 k	1-244-720-11	910 k	1-244-744-11	-	

HARDWARE NOMENCLATURE

Screw: -P 3 x 10

L: Length in mm

D: Diameter in mm

Type of head

Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).

Reference Designation	Shape	Description	Remarks
		SCREWS	
Р	80	pan-head screw	binding-head (B) screw for replacement
PWH	P	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	853	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	elist)	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	0	round-head screw	binding-head (B) screw for replacement
K	Ð	flat-countersunk-head screw	0 -
RK	€3	oval-countersunk-head screw	(a) "
В	(binding-head screw	Julian 34
T	(truss-head screw	binding-head (B) screw for replacement
F	[]	flat-fillister-head screw	
RF	(fillister-head screw	
BV	(braizer-head screw	

9-958-532-01

Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft
Reference designation

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCRE	WS
TA		self-tapping screw	ex: TA, P 3 x 10
PTP	8	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement
PTPWH	#	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC	-	set screw	
SC	-0=	hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N	-0-0	nut	
		WASHERS	
W	0	flat washer	
SW		spring washer	
LW	0	internal-tooth lock washer	ex: LW3, internal
LW	0	external-tooth lock washer	ex: LW3, external
INDIE SUL	SE, CRE VOL 5	RETAINING RINGS	e service manuals
E	0	Long to the last of the last o	iratis schema's
G	8	grip-type retaining ring	- P - R
			Digitized by

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Ref. No.

Part No.

C232,233 1-108-239-12 (A) 0.01

Description

mylar

SECTION 6 ELECTRICAL PARTS LIST

• Circled letters (A) to Z) are applicable to European models only.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Descripti	ion	
	SEMI	CONDUCTORS	and the state of t	TRA	ANSFORMER	S	
		Transistors	CFT201 IFT201	1-404-087-00 1-404-011-00	© AM IFT	riminator	
Q201 ⇒ Q202	8-729-334-58 8-729-663-47	B 2SC1345B 2SC1364	PT801 <u></u>	(1-446-124-11 1-446-165-11	O Power (I	AEP mod	el)
⇒ Q401,402 ⇒ Q403	8-729-663-47 8-727-788-00	B 2SC1364 B 2SA678			APACITORS		
⇒ Q404 ⇒ Q405	8-729-663-47 8-727-788-00	(B) 2SC1364 (B) 2SA678	All capa	citors are in μ F:		nless othe	erwise noted.
⇒ Q406 Q501,551	8-729-663-47	B 2SC1364	50WV .c	or less are not uF, elect = electr	indicated exc		
Q502,552) Q701	8-729-334-58 8-729-217-33	(B) 2SC1345 (C) 2SC1173	C201	1-102-936-11	(A) 3P		
In see		ICs	C202 C203	1-121-409-11 1-101-006-11	(A) 47 (A) 0.047	16V	elect
IC201 IC202	8-751-680-01 8-751-780-00	(I) CX168 (G) CX178	C204,205 C206,207	1-101-005-11 1-101-006-11	(A) 0.022 (A) 0.047		
IC401,402 IC601	8-719-902-01 8-759-301-25	D SPI201 L SI1125HD	C208	1-121-651-11	(A) 10	16V	elect
		Diodes	C209 C210,211 C212	1-101-005-11 1-121-352-11 1-101-005-11	(A) 0.022 (A) 47 (A) 0.022	10V	elect
D201-204 v	8-719-815-55	B 1S1555	C212 C213	1-101-003-11	A 2.2	50V	elect
⇒D601 D701 /	8-719-931-07 8-719-502-20	B EQB01-07 C S2VB20	C214 C215	1-121-414-11 1-121-450-11	A 100A 2.2	6.3V 50V	elect elect
⇒D702	8-719-931-15	B EQB01-15	C216 C217	1-101-006-11 1-121-415-11	(A) 0.047 (A) 100	16V	elect
		COILS	C218	1-101-005-11	(A) 0.022		
L201 L301	1-407-741-00 1-401-741-00	(A) 18μH, microinductor(B) SW Ant	C219 C220	1-121-751-11 1-121-726-11	(A) 330(A) 0.47	6.3V 50V	elect elect
L302 L303	1-401-728-00 1-401-709-00	B MW Ant C LW Ant	C221 C222	1-101-004-11 1-121-395-11	(A) 0.01 (A) 4.7	25V	elect
L304 L305	1-405-812-00 1-405-797-00	B SW Osc B MW Osc	C223	1-101-005-11	A 0.022	- And	maxing.com
L306 L308	1-405-813-00 1-407-210-XX	B LW Osc B 22mH, microinductor	C224 C225	1-102-816-11 1-108-355-12	A 120pA 0.0056		mylar
L801	1-401-747-00	F LW Ferrite-rod Ant	C226 C227	1-108-249-11 1-121-409-11	(A) 0.068 (A) 47	16V	mylar elect
			C227	1-121-726-11	(A) 47 (A) 0.47	50V	elect
			C229,230 C231	1-121-403-11 1-121-479-11	(A) 33 (A) 22	10V 16V	elect elect
• ⇒ : Due :	to standardizatio	n, interchangeable replacements	0231	1121 47711	atuanization lumi	104	All

C232,233	1-100-239-12	(A) 0.01		iliyiai	
C234,235	1-121-391-11	A 1	50V	elect	
C236,237	1-121-726-11	(A) 0.47	50V	elect	
C238	1-121-651-11	(A) 10	16V	elect	
C239	1-104-081-11	(A) 0.0015		polystyrol	
C240	1-121-651-11	(A) 10	16V	elect	
C241	1-101-005-11	(A) 0.022	GENERAL PROPERTY.	6.0	
C241	1-121-409-11	(A) 47	16V	elect	
C242	1-121-409-11	(1) 41	10 V	cicci	
6242	1 121 651 11	(A) 10	16V	elect	
C243	1-121-651-11	A 10			
C244	1-121-726-11	A 0.47	50V	elect	
C245	1-101-006-11	A 0.047			
C246	1-121-391-11	(A) 1	50V	elect	
C247	1-101-005-11	A 0.022			
C301	1-102-947-11	(A) 10p			
C302	1-102-935-11	(A) 2p			
C304	1-102-262-11	A) 12p			
C305	1-104-091-11	A 0.0039		polystyrol	
C306	1-102-241-11	(A) 8p			
C307	1-103-713-11	(A) 330p		polystyrol	
C308	1-101-880-11	(A) 47p			
C309	1-103-703-11	(A) 120p		polystyrol	
C310	1-101-005-11	(A) 0.022			7
C311	1-121-395-11	(A) 4.7	25V	elect	1
			1	XXX	-
C312	1-101-005-11	(A) 0.022	+	(4)	
C313	1-121-414-11	(A) 100	6.3V	elect	-
C314	1-102-973-11	(A) 100p	1		1
C315	1-102-120-11	(A) 0.0018		WWW	1
C316	1-102-120-11	(A) 0.0015			
C316	1-102-119-11	(A) 0.0013			
C217	1-102-940-11	(A) 3p			
C317					
C318	1-101-005-11	(A) 0.022			
C319	1-102-118-11	(A) 0.0012			
2000		O 10	101		
C401	1-121-651-11	A 10	16V	elect	
	W 180204 (1206) 2 (206)				
C501,551	1-121-915-11	(B) 4.7	25V	elect	
C502,552	1-101-001-11	A 0.001			
C503,553	1-101-880-11	A 47p			
C504,554	1-108-355-12	A 0.0056		mylar	
C505,555	1-108-228-12	A 0.0015		mylar	
C506,556	1-121-391-11	A 1	50V	elect	

• Circled letters ((A) to (Z)) are applicable to European models only.

Ref. No.	Part No.	Descript	ion	
0507.557	1 101 414 11	A 100	1037	alant
C507,557 C508	1-121-414-11	(A) 100 (A) 100	10V 16V	elect
C509,559	1-121-413-11	(A) 100p	10 V	Cicci
C510	1-102-973-11	(A) 0.001		
C310	1-101-001-11	(A) 0.001		
C601,651	1-108-228-12	(A) 0.0015		mylar
C602,652	1-108-244-12	(A) 0.033		mylar
C603,653	1-121-392-11	(A) 3.3	25V	elect
C604,654	1-108-244-12	(A) 0.033		mylar
C605,655	1-108-254-12	B 0.22		mylar
C606,656	1-101-361-11	A) 150p		
C607,657	1-108-232-12	(A) 0.0033		mylar
C608,658	1-108-242-12	A 0.022		mylar
C609,659	1-121-409-11	A 47	16V	elect
C610,660	1-121-409-11	A 47	16V	elect
		kinya [a]		
C611,661	1-123-062-11	B 100	35V	elect
C612,662	1-121-655-11	B) 220	35V	elect
C614	1-121-398-11	<u>A</u> 10	25V	elect
C615,665	1-101-884-11	A 56p		
	20		2577	
The same of the sa	1-125-155-11	E) 6800	35V	elect
C703	1-121,657-11	(B) 330	25V	elect
	1-108-389-12	(B) 0.1	100V	mylar elect
C708	1.101.005.11	(A) 47 (A) 0.022	16V	elect
C709	1-121-405-11	(A) 0.022		
CT201 206	1 141 171 00	(B) trimmer		
eeservicema	nuals.ita	(b) transmer		
eservicen.	F F	RESISTORS		
All resist	ors are in ohm	s. Common 1/2	W carbon	resistors are
omitted.	Refer to the	ist on the la	st page fo	or their part-
numbers.				
		0		
The state of the s	1-212-881-11	(A) 100	1/4W	fusible
R240	1-244-860-11	A 300 ·	½W	carbon
R411	1-244-860-11	A 300	½W	carbon
R416,417'		0	1/11/	
R418	1-244-859-11	(A) 270	½W	carbon
R419,422	1-244-860-11	(A) 300	½W	carbon
D615 665 A	1 212 050 11	M 17 1	W for all	ble
R615,665 /	1-212-950-11	~	W fusil	on (nonflammable
K010,000 /!	71-211-020-11	A) 550 %	ew carb	on (nonnammable

: Due to standardization, interchangeable rep may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark $\underline{\hat{\Lambda}}$ are critical for safety. Replace only with part number specified.