# Service Ma

Quartz Synthesizer FM/AM Stereo Tuner



ST-8055

(E), (EG), (XA), (XE), (EB), (XGH), (XGF)

ST-8055K

(E), (EG), (XA), (XGH)



- \* The models ST-8055 (E, EG) and ST-8055K (E, EG) are available in Scandinavia and European only.
- The models ST-8055 (XA) and ST-8055K (XA) are available in Asia, Latin America, Middle East and Africa only.
- \* The model ST-8055 (XE) is available in United Kingdom only.
- \* The model ST-8055 (EB) is available in Belgium only.
- \* The models ST-8055 (XGH) and ST-8055K (XGH) are available in Holland only.
- The model ST-8055 (XGF) is available in France only.

#### **TECHNICAL SPECIFICATIONS**

Specifications are subject to change without notice for further improvement.

#### [DIN 45 500]

#### **FM** TUNER SECTION

Frequency range* Antenna terminals	2000 (balan	$87.50 \sim 108$ nced), $75\Omega$ (unb	
Sensitivity	30011 (balai	1.9 µ∨ (IHF	
S/N 30 dB	1 0 11	$\vee$ (300 $\Omega$ ), 1.3	
S/N 26 dB		$\sqrt{(300\Omega)}$ , 1.2 $\mu$	
S/N 20 dB		$\vee$ (300 $\Omega$ ), 0.9 $\mu$	
IHF 46 dB stereo quieti		ν (30032), 0.9 μ 25	$(75\Omega)$
Total harmonic distortion	MONO	20	0.15%
Total Harmonic distortion	STEREO		0.13%
S/N	MONO	69 dB (IHF	
3/N	STEREO		
Erogueney rechence	-	кHz, +0.5 dB	
Frequency response Alternate channel selectivit			75 dB
Capture ratio	ly (+400 KHZ)		1.0 dB
Image rejection at 98 MHz			65 dB
IF rejection at 98 MHz			100 dB
Spurious response rejection	at 02 M∐-		90 dB
AM suppression	i at 30 WillZ		55 dB
Stereo separation	1 kHz	45 dB, <b>10kH</b>	
Carrier leak	19 kHz	-35 dB(IHF:	
Carrier leak	38 kHz	-35 dB(IHF:	
Limiting point	зо кпи	-40 UB(ITF.	$1.2 \mu\text{V}$
Limiting point Power bandwidth IF am	nlifior		180 kHz
	emodulator	1	100 kHz
Channel balance (250 Hz		1	±1.0 dB
Citatiliei Daidlice (250 HZ	~ 0300 HZ)		±1.0 ub

#### AM TUNER SECTION

Francisco vanas*	531 ∼1602 kHz
Frequency range*	
Sensitivity (S/N 20 dB)	30 µ√,350µ V/m
Selectivity (±9 kHz)	55 dB
Image rejection at 1000 kHz	45dB
IF rejection at 1000 kHz	50 dB

#### **GENERAL**

Output voltage Power consumption	0.3V (0.6V, IHF) 12W
Batteries for memory back-up	(optional)
	three "AA" size batteries DC 4.5V
Power supply (50 Hz/60Hz)	110V/120V/220V/240V
Dimensions (W x H x D)	430 x 53 x 240 mm
	(16-15/16" x 2-3/32" x 9-7/16")
Weight	2.8 kg (6.2 lb.)

For some countries, this unit is equipped with an EM/AM frequency-interval selector. The specifications shown above are correct with this switch set to the "FM 50 kHz/AM 9 kHz" position. If it is set to the "FM 200 kHz/AM 10kHz" position, however, the FM frequency range becomes 88.1 ~ 107.9 MHz, and the AM frequency range becomes 530 ~ 1610 kHz.

## TECHNISCHE DATEN

Spezifikationen können infolge von Verbesserungen ohne Ankündigung geändert werden.

#### [DIN 45 500]

**UKW-TUNERTEIL** 

Frequenzgang*	$87,50 \sim 108,00 \text{ MHz}$
Antennenanschluss 3000	$\Omega$ (symmetrisch), $75\Omega$ (unsymmetrisch)
Empfindlichkeit	1,9 $\mu$ V (nutzbar nach IHF)
30 dB Rauschabstand	$1.9 \mu\text{V} (300\Omega), 1.3 \mu\text{V} (75\Omega)$
26 dB Rauschabstand	$1.7 \mu \text{V} (300 \Omega), 1.2 \mu \text{V} (75 \Omega)$
20 dB Rauschabstand	$1.5 \mu V (300\Omega), 0.9 \mu V (75\Omega)$
46 dB Rauschabstand	utilisable Empfindlichkeit nach IHF

46 dB Rauschabstand	utilisable Em	pfindlichl	keit nach	IHF
IFC: (XA) (XF			$25 \mu V$	$(75\Omega)$
Klirrfaktor	MONO			0,15%
	STEREO			0,3%
Rauschabstand	MONO	69 dB (	75 dB nac	h IHF)
	STEREO	65 dB (	70 dB nac	h IHF)
Frequenzgang	20 Hz ~ 15	kHz (+0,	5 dB ~-	1,5 dB)
Selektivität (±400 kHz)				75 dB
Gleichwellen-Selektion				1,0 dB
Spiegelfrequenzunterdrüg	ckung bei 98	MHz		65 dB
ZF-Festigkeit bei 98 MH:	2			100 dB
Unselektivität-Dämpfung	bei 98 MHz			90 dB
AM-Unterdrückung				55 dB
Kanaltrennung	1kHz	45 dB.	10 kHz	35 dB
Hilfsträgerdämpfung (Pile	otton)			
19 k	Hz -	-35 dB (-	37 dB nac	h IHF)
38 k			50 dB nac	

#### MW-TUNERTEIL

Frequenzgang*	531 ~ 1602 kHz
Empfindlichkeit (20 dB Rauschabstand)	$30 \mu\text{V}$ , $350 \mu\text{V/m}$
Selektivität (± 9 kHz)	55 dB
Spiegelfrequenz-Selektion bei 1000 kHz	45 dB
ZF-Festigkeit bei 1000 kHz	50 dB

#### ALLGEMEINE DATEN

Ausgangssapannung	0,3V (0,6V, nach IHF)
Leistungsaufnahme	12 W
Batterien für den Speicher (Sonde	erzubehör)
	drei Batterien "AA" (4,5V)
Netzspannung (50 Hz/60 Hz)	110V/120V/220V/240V
Abmessungen (B x H x T)	430 x 53 x 240 mm
Gewicht	2,8 kg

\*Bemerkung

In einigen Ländern ist dieses Gerät mit einem UKW/MW-Intervallgrößenwähler ausgestattet. Die obenstehenden Angaben gelten, wenn der Schalter auf "FM 50 kHz/AM 9 kHz" steht. Wenn er aber in der Position "FM 200 kHz/AM 10 kHz" steht, ändert sich der UKW-Wellenbereich zu 88,1 ~ 107,9 MHz und der MW-Wellenbereich zu 530 ~ 1610 kHz.

#### **CARACTERISTIQUES TECHNIQUES**

Sujet à changement sans préaris.

#### [DIN 45 500]

#### PARTIE TUNER FM

Gamme de fréquence*	87,50 ~ 108,00 MHz
Impédance d'antenne 300	$\Omega$ (symétrique) 75 $\Omega$ (asymétrique)
Sensibilité	1,9 μV (IHF utilisable)
Signal/bruit 30 dB	$1.9 \mu\text{V} (300\Omega), 1.3 \mu\text{V} (75\Omega)$
Signal/bruit 26 dB	$1.7 \mu V (300 \Omega), 1.2 \mu V (75 \Omega)$
Signal/bruit 20 dB	$1.5 \mu V (300 \Omega), 0.9 \mu V (75 \Omega)$
IHF Sensibilité pour S/B 4	
Distorsion harmonique total	MONO 0,15%
	STEREO 0.3%
Signal/bruit M	ONO 69 dB (IHF: 75 dB)
ST	TEREO 65 dB (IHF: 70 dB)
Réponse de fréquence 2	$0 \text{ Hz} \sim 15 \text{ kHz}, +0.5 \text{ dB} \sim -1.5 \text{ dB}$
Sélectivité en canaux alternés	(±400 kHz) 75 dB
Taux de capture	1,0 dB
Réjection de fréquence image	à 98 MHz 65 dB
Réjection FI à 98 MHz	100 dB
Réjection de réception non sé	lective à 98 MHz 90 dB
Suppression AM	55 dB
Speparation stéréophonique	1 kHz 45 dB, 10kHz 35 dB
Courant porteur de dispersion	19 kHz -35 dB (-37 dB, IHF)
EUD.	38 kHz -48 dB (-50 dB, IHF)
Point de limite	1,2μV
Largeur de bande Amplif	cateur FI 180 kHz
Démod	ulateur FM 1000 kHz
Equilibrage de canaux (250 H	$z \sim 6300 \text{ Hz}$ ±1,0 dB

#### PARTIE TUNER AM

Gamme de fréquence	531 ~ 1602 kHz
Sensibilité (Rapport S/B 20 dB)	$30  \mu V$ , $350  \mu V/m$
Sélectivité (±9 kHz)	55 dB
Réjection de fréquence image à 1000 kHz	45 dB
Réjection FI à 1000 kHz	50 dB

#### **GENERALITES**

Tention de sortie	0,3 V (0,6 V' IHF)
Consommation	12 W
Piles pour préservation des m	némoires (en option)
	trois piles de type AA (C.C.: 4,5V)
Alimentation (50 Hz/60 Hz)	110V/120V/220V/240V
Dimensions (L x H x Pr)	430 x 53 x 240 mm
Poids	2,8 kg

#### \*Nota:

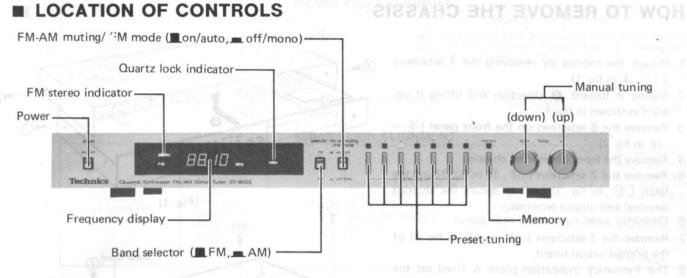
Cet appareil est doté, pour certains pays, d'un sélecteur d'intervalle de fréquence FM/AM. Les spécifications- indiquées ci-dessus sont applicables si ce sélecteur est sur la position "FM 50 kHz/AM 9 kHz". S'il est sur la position "FM 200 kHz/AM 10 kHz", les gammes de fréquence FM et AM deviennent respectivement 88,1 ~ 107,9 MHz et 530 ~ 1610 kHz.

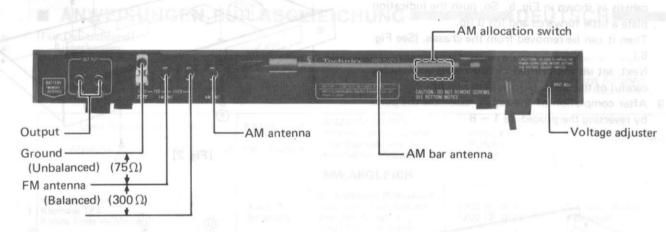
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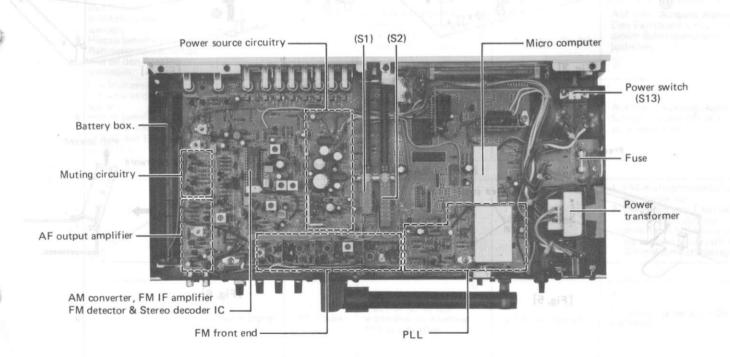
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#### **■ LOCATION OF CONTROLS**





- \* This photo shows only the products for (XA).
- \* The product for other destinations except (XA) is not equipped with AM allocation switch.



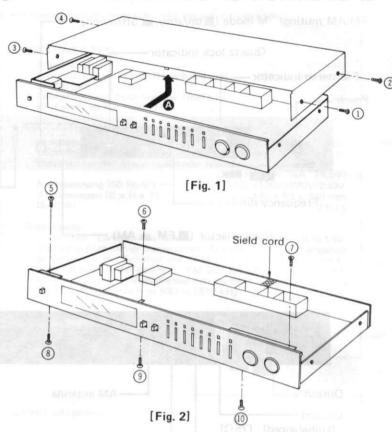
#### **■ HOW TO REMOVE THE CHASSIS**

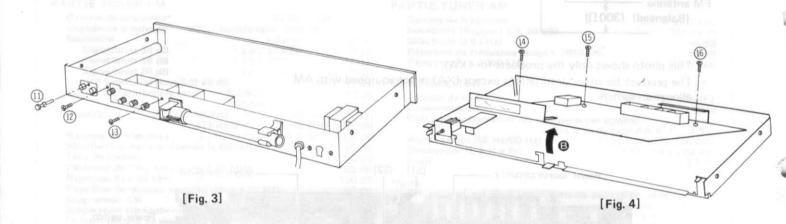
- 1. Detach the cabinet by removing the 4 setscrews  $(1) \sim 4$  in fig. 1)
- 2. Sliding it toward (a) direction and lifting it upward as shown in fig. 1.
- 3. Remove the 6 setscrews on the front panel ( $\mathfrak{S} \sim \mathfrak{O}$ ) in fig. 2)
- 4. Remove the front panel from chassis.
- 5. Remove the 2 setscrews ( 12, 13 in fig. 3) and the latch ( 11 in fig. 3) used to secure the antenna terminal and output terminal.
- 6. Unsolder sield cord from rear panel.
- 7. Remove the 3 setscrews ( 14 ~ 16 in fig. 4) of the printed circuit board.
- 8. The frequency indication plate is fixed on the cahssis as shown in Fig. 5. So, push the indication plate a little forwards and lift it up.

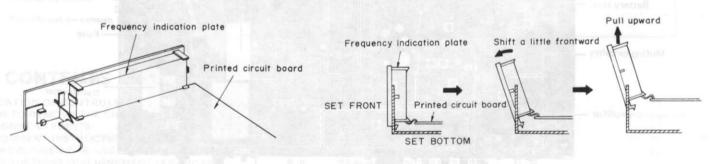
Then it can be removed from the chassis. (See Fig. 6.)

Next, set up the printed circuit board while being careful of the leads. (Arrow (3) in Fig. 4)

9. After completion of the repair, assemble the parts by reversing the procedure  $1 \sim 8$ .



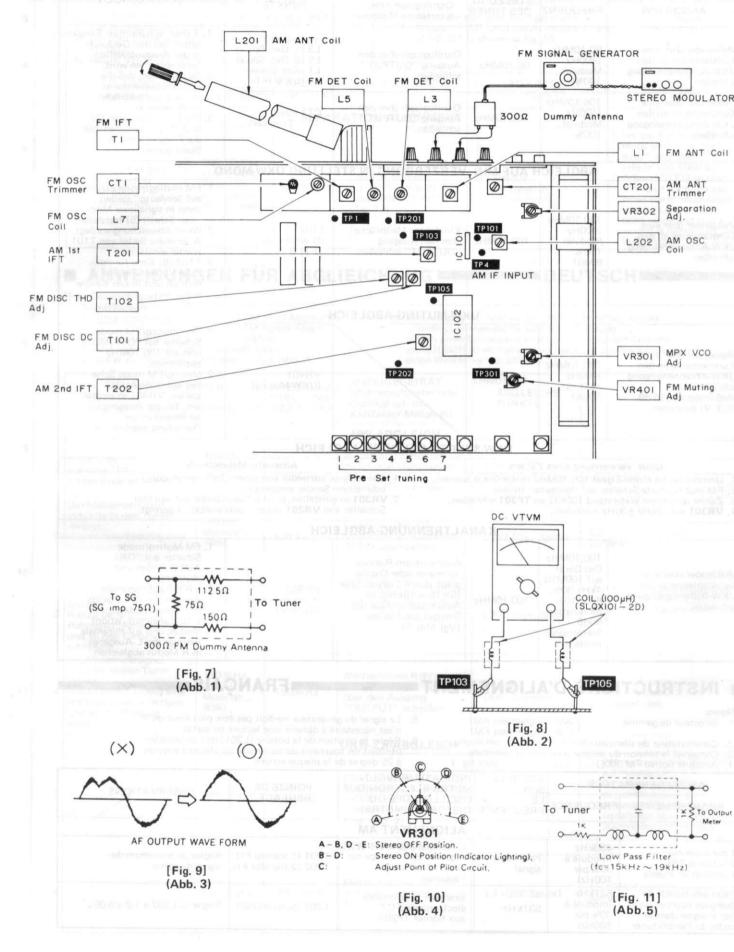




[Fig. 5]

[Fig. 6]

#### ■ ALIGNMENT POINTS



#### **ALIGNMENT INSTRUCTIONS**

5. Output of signla generator should be on higher than necessary

to obtain an output reading.

6. Adjust the antenna coil (L201) position by using a screw-driver so that it is at approximately 25 degrees to the rear panel.

AM/FM SIGNAL GET	NERATOR	FREQUENCY	INDICATOR	ADJUSTMENT	REMARKS	
CONNECTION	FREQUENCY	SETTING	(VTVM or SCOPE)	POINTS	HEIMARKS	
	Le mil	Al	M ALIGNMENT	TO Landest		
High side to TP4 terminal. Common to chassis.	450kHz (30% Mod, with 400 Hz)	Point of non- inter-ference	Connect AC VTVM or scope to "OUTPUT" terminals,	T201 (1st IFT) T202 (2nd IFT)	Adjust for maximum output.	
Fashion loop of several turns of wire and radiate signal into loop of tuner	531kHz (30% Mod. with 400 Hz)	531kHz	Connect DC VTVM to TP201 terminal.	L202 (OSC Coil)	Adjust L202 to 1.0 ±0,05V.	
Fashion loop of several turns of wire and radiate signal into loop of tuner	612kHz (30% Mod. with 400 Hz)	612kHz	Connect AC VTVM or scope to "OUTPUT" terminal.	L201 (ANT Coil)	Adjust for maximum output. Adjust ferrite core of L201 by screw driver.	
Fashion loop of several turns of wire and radiate signal into loop of tuner	1503kHz (30% Mod. with 400Hz)	1503kHz	Connect AC VTVM or scope to "OUTPUT" terminal.	CT201 (ANT Trimmer)	Adjust for maximum output Repeat steps (3) and (4).	
All mor today	Trom trab con	FM	IF ALIGNMENT	elpdA 1950 MA-J		
Manager of the second s	No-Signal	Point of non- inter-ference	Connect DC VTVM to TP103, TP105 terminals (Refer to fig. 8 )	T101 (DISCRI IFT) A	1. FM muting/mode switch "on/auto" position. 2. Adjust T101 (A) core so that voltage mea- sured in signal mode is 0V in 300mV range.	
	,	FM I	RF ALIGNMENT		Here The Her	
	No-Signal	87.50MHz	Connect DC VTVM to TP1 terminal	L7 (OSC Coil)	Adjust L7 (OSC Coil) to 3.0V	
Connect to FM $300\Omega$ antenna terminal through $300\Omega$ , FM	90.10MHz (100% Mod. with 400Hz) weak input	90.10MHz	Connect scope to "OUTPUT" terminal.	L3 (RF DET Coil, 1st) L5 (RF DET Coil, 2nd) L1 (ANT Coil) T1 (FM IFT)	<ol> <li>Add weak input so that noise is included in the output wave form.</li> <li>Make the adjustment s that the output wave</li> </ol>	
dummy antenna.	106.10MHz (100% Mod. with 400Hz)	106.10MHz	Connect scope to "OUTPUT" terminal.	CT1 (OSC Trimmer)	form is vertically sym- metrical. Refer to fig. 9 3. Repeat the steps (7) and (8)	
in the result of the	9 1 10	FM MONO D	DISTORTION ALIGNM	ENT	ferma intermedial esc.	
	Pardice of	A) rog I II a	principal and midu	Servera militaria	1. Set the FM muting/	
Connect to FM $300\Omega$ antenna terminal through $300\Omega$ FM dummy antenna.	100.10MHz (100% Mod. with 400Hz, 60dB)	100.10MHz	Connect distortion meter to "OUTPUT" terminals.	T102 (DISCRI IFT) B	mode switch to "on/auto" and then check step (5) in no signal mode. 2. If it is deflected, re- adjust of T101. 3. Adjust T102 (B) core so that distortion of right and left channels are minimized.	
		FM MUTIN	IG LEVEL ALIGNMEN	T		
Connect to FM $300\Omega$ antenna terminal through $300\Omega$ FM dummy antenna. Apply $16\text{dB}$ $(6.3\mu\text{V})$ to tuner	100,10MHz (100% Mod. with 400Hz)	100.10MHz	AUST STATE OF THE	VR401 (Muting Level)	1. Set the muting/FM mode switch to "off/mono" and then tune in 100,10MHz. 2. With the muting/FM mode switch set to "on/auto", adjust VR401 so that the output is given with muting condition released.	

## ANWEISUNGEN FÜR ABGLIEICHUNG

(Für Deutschland) Anmerkungen:

11

12

AM (MW Abgleich) FM (UKW Abgleich) 1. Bereichsschalter.....

FM Muting/Mode Schalter off/mono

Netzspannung auf ihren Sollwert halten.

UKW-Kunstantenne, 300 ohm. Vgl Abb. 1.

- 5. Der Ausgang des Meßsenders darf nicht höher sein als
  - unbedingt notwendig für eine gute Ablesung.

    6. Nittels eines Schraubenziehers die Stellung der Antennenspule (L201) so einstellen, daß, sie gegen die Rückenplatte einen Winkel von ca. 25° macht.

MW/UKW MESS	ENDER	FREQUENZ STELLUNG	ANZEIGEGEIRÄT (Röhrenvoltmeter oder	ABGLEICHS-	BEMERKUNGEN
ANSCHLUSS	FREQUENZ	DESTUNER	Oszillograph ozw. Klirrfaktor-Meßgerät)	PUNKTE	BEWERKUNGEN
	l nixa	namus r 1 2	MW-ABGLEICH	HANTEN CHANGE	u la companya di santa di sant
Hohe Seite zur Klemme TP4 Kaltes Ende an Masse	450kHz (400Hz Modulat., 30%)	Kein Empfang	Wechselstrom Röhrenvolt- meter oder Oszillograph über den Ausgang. "OUTPUT" schließen	T201 (1. IFT) T202 (2. IFT)	Auf max, Ausgang abgleichen.
Das Meßsendersignal induktiv in den Tuner speisen, Hierzu behelfsmäßig eine Rahmenantenne fertigen und an den Eingang schließen,		531 kHz	Elektronisches GS- Voltmeter an Klemmen TP201 anschließen.	L202 (Osc. Spule)	L202 auf 1.0 ±0,05V justieren.
Das Meßsendersignal induktiv in den Tuner speisen, Hierzu behelfsmäßig eine Rahmenantenne fertigen und an den Eingang schließen.		TM3MM 612kHz	Wechselstrom Röhrenvolt- meter oder Oszillograph W über den Ausgang "OUTPUT" scheißen.	L201 (Ant. Spule)	Auf max. Ausgang abgleichen Den Ferritkern von L201 mit einem Schraubendreher justieren.
Das Meßsendersignal induktiv in den Tuner speisen. Hierzu behelfsmäßig eine Rahmenantenne fertigen und an den Eingang schließen.		1503kHz	Wechselstrom Röhrenvolt- meter oder Oszillograph über den Ausgang "OUTPUT" scheißen,	CT201 (Ant. Trimmer)	Auf max, Ausgang abgleichen Schritt (3) und (4) sing zu wiederholen,
791	7/03		UKW-ZF-ABGLEICH	LAND III	
	Kein Signal	Kein Empfang	Elektronisches (GS- Voltmeter an Klemmen TP103 und TP105 anschließen. (Vgl Abb. 2)	T101 (Diskriminator IFT) A	1. FM muting/mode-Schalter auf "on/auto". 2. Den Kern von T101(A) so justieren, daß die gemessene Spannung im signallosen Modus 0V im 300mV Bereich beträgt.
SET BOTH OF LIGHTY OF	IVAVE EDVA		UKW-HF-ABGLEICH		19/10/10/1
norhibude grafung	0 0		Elektronisches GS-	Gurl	17/000 0 5/1 2 5/1
	Kein Signal	87.50MHz	Voltmeter an Klemme TP1 anschließen.	L7 (OSC Spule)	L7 (OSC-Spule) auf 3,0V justieren.

ST-8055/

	MW/UKW MESSEN	DER	FREQUENZ	ANZEIGEGEIRÄT (Röhrenvoltmeter oder	ABGLEICHS-	DEMERKINGEN
	ANSCHLUSS	FREQUENZ	STELLUNG DES TUNER	Oszillograph ozw. Klirrfaktor-Meßgerät)	PUNKTE	BEMERKUNGEN
7	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen	90.10MHz (400Hz Modulat., 100%)	90.10MHz	Oszillograph über den Ausgang "OUTPUT" schließen.	L3 (1. Det, Spule) L5 (2. Det, Spule) L1 (Ant, Spule) T1 (UKW IFT)	Einen schwachen Eingan geben, bei den Geräusch in der Ausgangswellenform enthalten wird.     So einstellen, daß die Ausgangswellenform
8	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen.	106.10MHz (400Hz Modulat., 100%	106.10MHz	Oszillograph über den Ausgang "OUTPUT" schließen.	CT1 (Osc. Trimmer)	vertikal symmetrisch wird. (Abb 3) 3. Die Einstellung von (7) und (8) wiederhoten, bis die Frequenz mit der
	Bied TWA MR			瓜 鹿 盎 一州甘止	Daniel	Skala übereinstimmt.
		ABGLEIC	H AUF MIN.	VERZERRUNG IN STE	LLUNG UKW-MON	10
9	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen	100,10MHz (400Hz Modulat., 100% 60dB)	100.10MHz	Klirrfaktor-Meßbrücke über den Ausgang "OUTPUT" schließen.	T102 (Diskriminator FT) B	1. FM muting/mode-Schalter auf "on/auto" stellen dann in signalloser Mode den Schritt (5) feststellen. 2. Wenn Abweichung vorliegt. A (primäre Seite) von T101 wieder einstellen. 3. T102 (B) Kern für minimale Verzerrung der rechten und linken Kanäle justieren.
			UI	KW-MUTING-ABGLEICH	+	
10	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen, Meßsender auf 16 dB (6,3 V) einstellen.	100,10MHz (400Hz Modulat., 100%)	100,10MHz	MEALIGNMENT	VR401 (UKW-Muting)	1. Den muting/FM mode Schalter auf "OFF/MONO", und auf 100.10MHz abstimmen. 2. Muting/FM mode Schalter auf "ON/AUTO" stellen, VR401 so einstellen, daß der Ausgang unter Bewirken der Dämpfung gegeben wird.
		1 1	UKW-ST	EREO-DEKODER-ABG	LEICH	
	Unter Verv	vendung eines Z		7 9 0 0 5 9	Alternativ-Meß	methode
1	2 FM muting/mode-Schalt	ter auf "on/aut stand 100K $\Omega$ a	n" stellen	3en. 2, <b>VR301</b> so e	Sender einsneisen	olampe auf leuchtet.
		100 150	KAN	ALTRENNUNG-ABGLE	ICH	The first of the f
12	Meßsender über eine Kunstantenne an den UKW-Antenneneingang schließen.	100,10MHz Das Gerät auf 100MHz, 1kHz 30%, Pilot 10% Modulation 60dB Stereosignal einstellen,	100.10MHz	Wechselstrom-Röhren- voltmeter oder Oszillo- graph durch Tiefpaß filter (fc=15 ~ 19kHz) an Ausgangsanschlüsse des Gerötes anschließen (Vgl Abb. 5)	VR302 (Kanaltrennung- Abgleich)	1. FM-Muting/mode Schalter auf "ON/ AUTO stellen und abstimmen. 2. VR302 auf minimale Anzeige des R-Ausgangs bei Stereo-modulator in L-(L-Kanalmodulation) Modus, und auf minimale Anzeige des L-Ausgangs in R-Modus abgleichen,

#### INSTRUCTIONS D'ALIGNEMENT

## ■FRANÇAIS■

5. Le signal du générateur ne doit pas être plus élevé qu'il n'est nécessaire à obtenir une lecture en sortie.
6. Régler la position de la bobine (L201) de l'antenne en

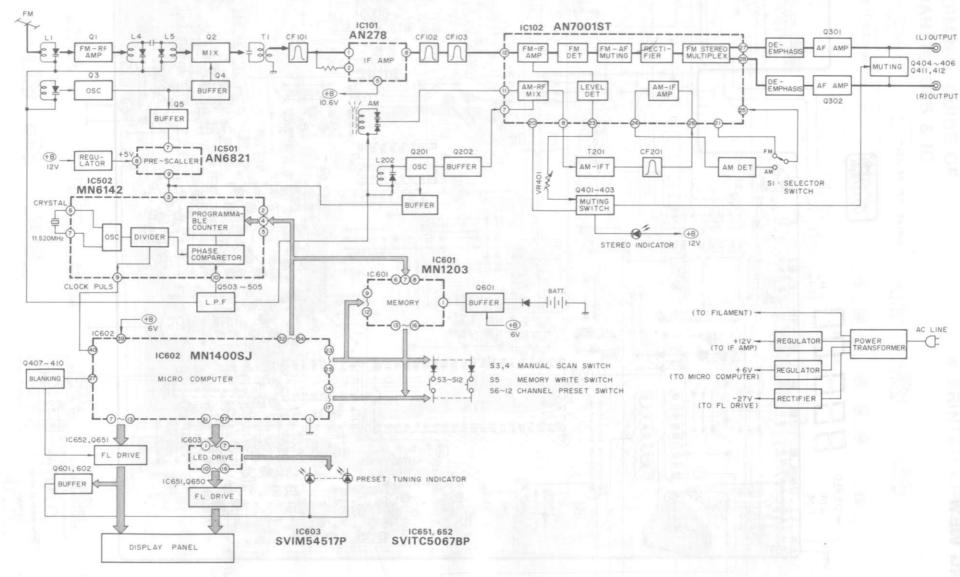
utilisant un tournevis de telle sorte qu'alle soit environ à 25 degrés de la plaque arrière.

AM/FM GENERA	AM/FM GENERATEUR		NDICATEUR (VOLT- METRE ELECTRONIQUE POINTS DE		OBSERVATIONS	
BRANCHEMENT	FREQUENCE	LE FREQUENCE	OSCILLOSCOPE OU DISTORSIONMETRE)	REGLAGE	OBSERVATIONS	
	(2) 6(0x 6)		ALIGNEMENT AM			
Côté supérieur à la borne TP4. Commun an shâssIs	450kHz (modulė à 30% par 400Hz)	Point sans signal	C.A. voltmètre électro- nique ou oscilloscope sur prise de sortie de l'appareil.	T201 (1 transfo FI) T202 (2 transfor FI)	Réglez au maximum de signal de sortie.	
Faire une boucle de quelgues tours et rayon- ner le signal dans le cadre du l'ampli-tuner.	531kHz (modulé à 30% par 400Hz)	531kHz	Brancher le voltmétre électronique á C.C. aux bornes TP201.	L202 (bobine OSC)	Régler la L202 à 1.0 ±0.05V.	

	Faire une boucle de quelgues tours et rayon- ner le signal dans le cadre du l'ampli-tuner	612kHz (modulè à 30% per 400Hz)	612kHz	nique o prise de l'appare		L201 (bobine ANT)	Réglez au maximum de signal de sortie. Régler le noyau ferrite de L201 à l'aide d'un tournevis.		
	Faire une boucle de quelgues tours et rayon- ner le signal dans le cadre du l'ampli-tuner	1503kHz (modulé à 30% per 400Hz)	1503kHz	nique o	Itmètre électro- u oscilloscope sur sortie de sil.	CT201 (trimmer ANT)	Réglez au maximum de signal de sortie. Recommencez les étapes (2) (3).		
ı			-	ALIGNE	MENT FI-FM		and Mr. 181		
		Sans signal	Point sans signal	électro	er le voltmètre nique à C.C. aux TP103 et TP105.	T101 (transfo FI discri) A	1. Commutateur de silencieur sur "on/auto".  2. Régler le noyau T101 (A) de telle sorte que le voltage mesuré dans le mode sans signal, soti de 0V dans la		
		1 200					gamme des 300mV.		
ļ		4	,		MENT RF-FM				
		Sans signal	87.50MHz	Brancher le voltmètre électronique à C.C. à la borne TP1.		L7 (bobine OSC)	Régler la L7 (Bobine d'oscillation) à 3,0V.		
	Branchez sur la prise d'antenne FM à traves une antenne fictive FM	90.10MHz (modulé à 100% par 400Hz)	90.10MHz	Oscilloscope sur prise de sortie du tuner		L3 (1er détecteur) L5 (2e détecteur) L1 (bobine ANT) T1 (FM IFT)	Appliquer une entrée faible de telle sorte que le parasisoit compris dans la forme de l'onde de sortie.     Faire le réglage de telle sor que la forme de l'onde de		
	Branchez sur la prise d'antenne FM à travers une antenne fictive FM.	nne FM à travers 100% par 106.10MHz			scope sur prise de u tuner.	CT1 (trimmer OSC)	sortie soit verticalement symétrique. (Voir fig. 9) 3. Refaire les réglages (7) et jusqu'à ce que la fréquenc corresponde correctement avec l'échells du cadran.		
Ì		9	REGLAGE	DE LA	DISTORSION FA	M EN MONO			
ŀ		100					1. Placer la commutateur		
	Branchez sur la prise d'antenne FM à travers une antenne fictive FM.	100.10MHz (modulé à 100% par 400Hz, 60dB)	106.10MHz	Distorsiomètre sur pris de sortie du tuner		T102 (Transfo FI discri.) B	Sourdine FM/Mode sur "on/auto" et vérifier l'ét 4 dans un mode sans sign 2. S'il est déplacé, re-régler (côté primaire) de T101. 3. Régler le noyou T102 (B de telle sorte que la distorsion des canaux druet gauche soit la plus fait		
	Branchez sur la prise d'antenne FM à travers une antenne fictive FM. Niveau de sortie du générateur 16dB (6.3 V).	100,10MHz (modulé à 100% par 400Hz)	100,10MHz			VR401	1. Régler le commutateur de mode/réglage silencieux F sur la position "OFF/MO et accorder sur 100.10MH 2. Avec le commutateur de mode/réglage silencieux F réglé sur la position "ON/AUTO", régler le VR401 telle sorte que la sortie fournie avec le réglage silecieux en position déclencieux en position déclencieux en position déclencieux en position déclencieux sur la position déclencieux en position declencieux en position en position en position declencieux en position e		
ľ			ALIGNEM	ENT DU	PILOTE MULTI	PLEX FM			
ľ	Avec un fréqu	encemétre			of all distances	Par un outre sy	vstème		
	<ol> <li>Signal mono 100,10</li> <li>Commutateur de sile</li> <li>Branchez le fréquence résistance de 100kΩ</li> <li>Régler VR301 sur 19</li> </ol>	encieux sur "on cemètre sur <b>TP</b> 3	/auto".		ou de la récep 2. Régler VR30	otion d'un émetteur.	provenant d'un générateur ateur de stéréophonic s'allume. indiqué sur la fig. 10.		
-	AM/FM GENERA	TEUR	AIGUILLE SUR	METRE	TEUR (VOLT- ELECTRONIQUE	POINTS DE	OBSERVATIONS		
	BRANCHEMENT	FREQUENCE	LE FREQUENCE		OSCOPE OU SIONMETRE)	REGLAGE	OBSERVATIONS		
L	Maria Land	3505,198	REGLAGE	DE LAS	EPARATION DE	S CANAUX			
		100.10MHz Ajouter			(cue) (cue)		Placer le commutateur de mode/réglage silencieux sur "ON/FM AUTO" et		
	Branchez sur la prise d'antenne FM à traves une antenne fictive FM	r la prise 100MHz, 1kHz, M à traves Modulation, 100 10MHz		Brancher un voltmètre électronique C.A. ou un oscilloscope aux bornes de sortie, par l'intermédiaire du filtre passe-bas (fc= 15 ~ 19kHz). (Voir fig. 11)		VR302	accorder sur 100.10MHz  2. Régler VR302 de telle sort que la sortie droite soit minimale quand la com- mande d'accord stéréopho- nique est dans le mode gauche (modulation du car gauche) et que la sortie gauche soit minimale dan mode droit.		

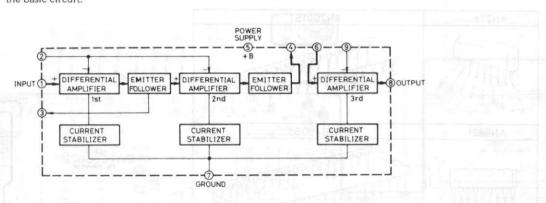
#### **■ BLOCK DIAGRAM**



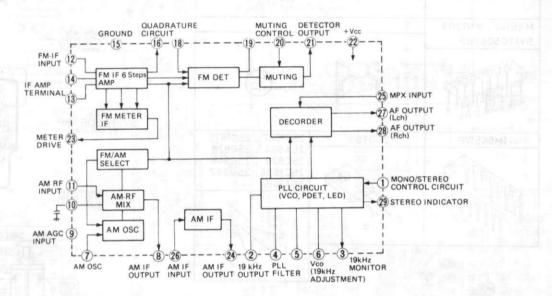


#### **■ BLOCK DIAGRAM OF IC**

 This is the basic block diagram of the inside circuit of IC. In an actual circuit, there may be sometimes idle terminals or some different functions other than the basic circuit.



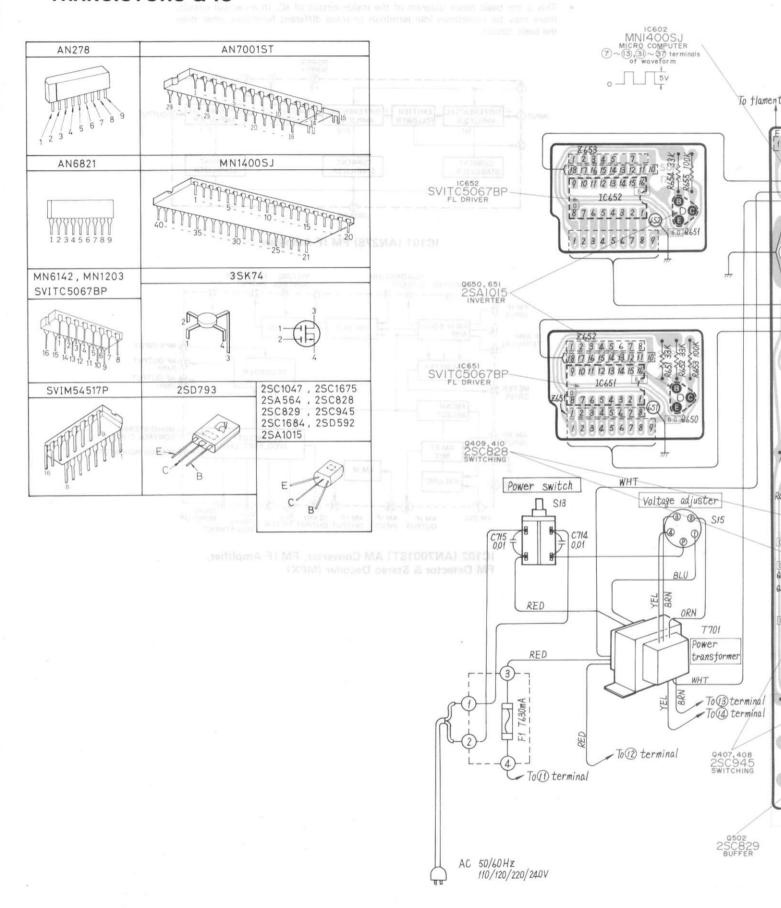
IC101 (AN278) FM IF Amplifier

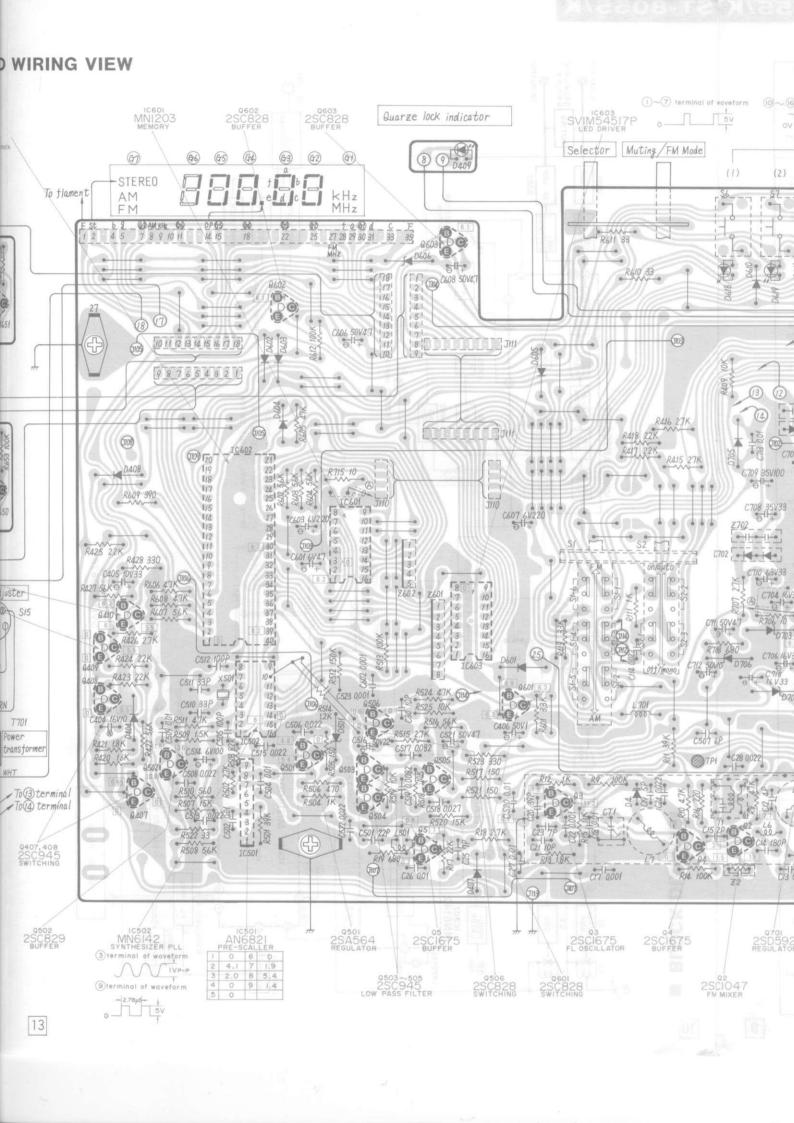


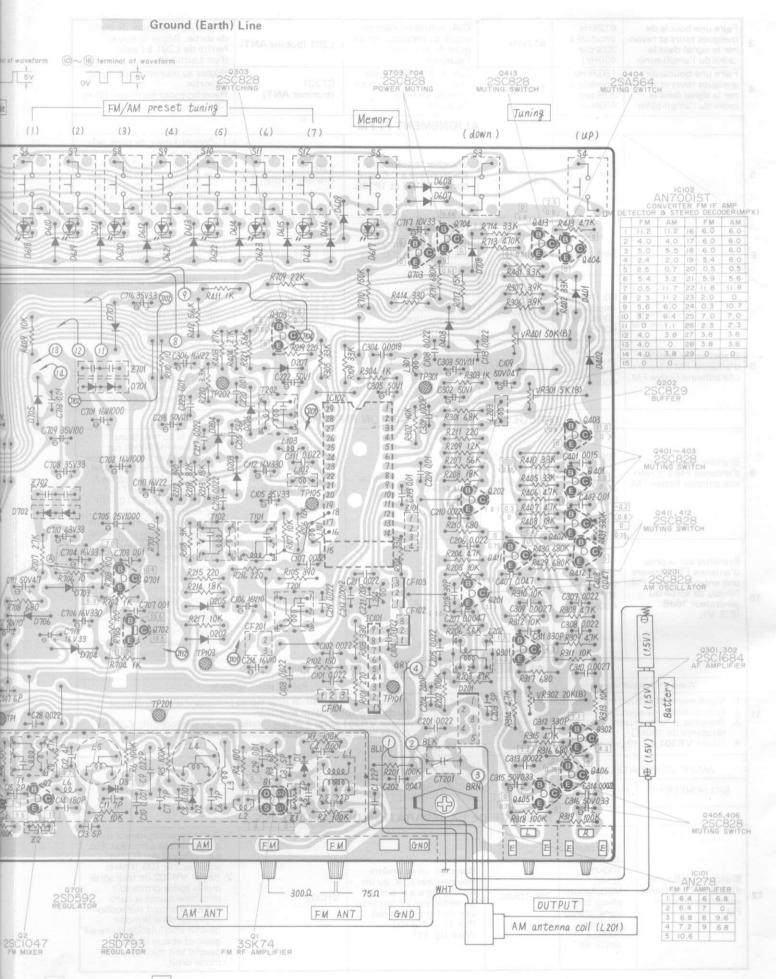
IC102 (AN7001ST) AM Converter, FM IF Amplifier, FM Detector & Stereo Decoder (MPX)

# ■ TERMINAL GUIDE OF TRANSISTORS & IC

#### PRINTED CIRCUIT BOARD WIRING







## ■ REPLACEMENT PARTS LIST (Electric Parts)

- NOTES: 1. Part numbers are indicated on most mechanical parts Please use this part number for parts orders
  - ▲ indicates that only parts specified by the manufacturer be used for safety.
- 3. (E) and (EG) are available in Scandinavia and European only. (XA) is available in Asia, Latin America, Middle East and Africa only.

(EB) is available in Belgium only.

(XE) is available in United Kingdom only.

(XGH) is available in Holland only.

(XGF) is available in France only.

Ref. No.		Part No.	Part Name & Description	Ref. No.		Part No.	Part Name & Description	
		INTEGRATE	D CIRCUITS			COILS and TF	RANSFORMERS	
C101 C102 C501 C502 C601 C602 C603 C651 652	AN7001ST IC, AM Converter, FM IF Amplifier, FM Detector & Stereo Decoder (MPX) IC, Pre-Scaller MN6142 IC, Synthesizer PLL MN1203 IC, Memory MN1400SJ IC, Micro Computer SVIM54517P IC, LED Driver 652 SVITC5067BP IC, FL Driver		Detector & Stereo Decoder (MPX) IC, Pre-Scaller IC, Synthesizer PLL IC, Memory IC, Micro Computer IC, LED Driver	L1 L2, 501 L3 L4 L5 L6 L7 L101 L102, 203, 204		SLA4N17 RLQY25S2 SLQAN40G-1 SLD4P35-P SLD4P37-P ELQ5A77 SLO4P67-P SLQX180-2 SLQX1810-3M	Coil, FM Antenna Coil, Choke Coil, Choke Coil, FM RF Detector (1st) Coil, FM RF Detector (2nd) Coil, Choke Coil, FM Local Oscillator Coil, Choke Coil, Choke	
	-	TRANS	ISTORS	L103		RLQY15G5-Y	Coil, Choke	
Q1		Transistor, FM Mixer Transistor, FM Oscillator & Buffer (Use in ranks L1 or L2) Transistor, AM Oscillator & Buffer Transistor, AF Amplifier (Use in ranks S or T) Transistor, Inverter, Blanking Circuit,	L201 L202 L301 L701 T1 T101 T102 T201 T202 T701	Δ	SLF2D51 SL02C13-P SLQX393-1Z SLQX101-2D SL14C109 SL14C515-1 SL14C517-1 SL12C127 SL12C413 SLT5J113-W	Coil, AM Ferrite Core Antenna Coil, AM Local Oscillator Coil, Choke Coil, Choke Transformer, FM IF Transformer, FM IF Transformer, Discriminator Transformer, AM IF Transformer, AM IF Transformer, AM IF Transformer, Power Source		
2401.402.403		2SC1328-T	Transistor, Muting & Blanking Circuit	CERAMIC FILTERS				
405, 406, 409 411, 412, 413			CF101, 102, 103 CF201		SVFE107MM-A SVFSFP450HT	Ceramic Filter, 10.7MHz (Red) Ceramic Filter, AM 450kHz		
Q404, 501 Q407, 408, 503		Transistor, Muting Switch & Regulator Transistor, Blanking Circuit & Low Pass filter	- 10 (C)		VARIABLE	RESISTORS		
504, 505 Q650, 651 Q701 Q702		2SA1015-Y 2SD592ANC-Q 2SD793-Q	(Use in ranks P1 or P2) Transistor, Inverter (Use in ranks Y or O) Transistor, Regulator (Use in ranks Q or R) Transistor, Regulator (Use in ranks P or Q)	VR301 VR302 VR401		EVTS3MA00B53 EVLS3AA00B24 EVLS3AA00B54	PEL MPX VCO Adjustment, $5k\Omega$ (8) Separation Adjustment, $20k\Omega$ (B) FM Muting Level Adjustment, $50k\Omega$ (B)	
w/02			DES				USE	
01 2, 3, 4		MA320G1-N	Diode, Variable Capacitor (FM)	F1				
0201		SVDBB113	Diode, Variable Capacitor (AM)	CRYSTAL				
D202, 203, 204 205, 207, 401		MA162A	Diode, Switching & AGC	X501		SVQ43U11521	Crystal, 11,520MHz	
403, 407, 604				268			COMBINATIONS	
607, 608 609~616, 708 D206, 402, 404 D408, 601, 603 605, 707	2-0A99 MA162A LN220RP	MA162A Diode  LN220RP Diode, Light Emitting Diode	Z1 Z2 Z101 Z601 Z602 Z651, 652, 663 Z701, 702	1 100	EXRP102Z223C EXRP103P102C EXF3SL04C EXBP87562K EXBP84473K EXBP87104K EXRFS203ZS	Component Combination, $22  k  \Omega  \approx 0.01 \mu l$ Component Combination, $1  k  \Omega  \approx 0.01 \mu l$ Component Combination, $0.01 \mu l$ (X3) Component Combination, $6.6  k  \Omega  (X7)$ Component Combination, $47  k  \Omega  (X4)$ Component Combination, $47  k  \Omega  (X4)$ Component Combination, $100  k  \Omega  (X7)$ Component Combination, $0.01  \mu l  (X2)$		
D501 D602		SVDMZ305AM MA162A	Diode, 5V Zener Diode, Except Product for [XA]			VARIABLE	CAPACITORS	
D606 D617, 618~624		SVDMZ307A LN831RP	Diode, 7V Zener Diode, Light Emitting Diode	CT1 CT201		ECV1ZW06X32E SVCTV121B269	Trimmer, Local Oscillator Trimmer, AM Antenna	
0626 [XA] only 0701, 702	Δ	MA162A RVD10DC4	Diode Diode, Rectifier	189		SWI	TCHES	
D703 D704 D705	Δ	SVDMZ307A SVDEQA0113RA SVDSR1K2	Diode, 7V Zener Diode, 13V Zener Diode, Rectifier	\$1, 2 \$3~12	Δ	SSH267 SSG1 SSH119	Switch, Selector & FM Muting/Mode Switch, Manual Scan, Memory Write & Channel Preset Switch, Power	
0706		SVDMZ336B	Diode, 36V Zener	S14[XA] only S15	Δ	ESD14116 ESE372	Switch, FM/AM Allocation Switch, Voltage Adjuster	
XI.			3		243		Y PANEL	
				FL	_	SAD7MT09ZA	1 1 PARISE	

Ref. No.	Part No.	Par	t Name & D	escription		Ref. No.		Part No.	Part	Name & De	escription	
	RE	SISTORS				R415		ERD25TJ273	Carbon,	27kΩ,	1/4W,	±5%
						R416		ERD25FJ272	Carbon,	2.7kΩ,	1/4W,	±5%
2	ERD25TJ104	Carbon,	100kΩ,	1/4W,	±5%	R417, 418		ERD25TJ223	Carbon,	22kΩ,	1/4W,	±5%
	ERD25TJ683	Carbon,	68kΩ,	1/4W,	#5%							
	ERD25FJ101	Carbon,	100Ω.	1/4W,	±5%	R419		ERD25FJ332	Carbon,	3.3kΩ,	1/4W,	±5%
6	ERD25TJ104	Carbon,	100kΩ,	1/4W,	±5%	R420		ERO25CKF1602	Metal Film,	16kΩ,	1/4W.	±1%
0	ERD25FJ103	Carbon,	10kΩ,	1/4W.	±5%	R421		ERD25FJ182	Carbon,	1.8kΩ,	1/4W.	±5%
				1/4W.	±5%							
	ERD25TJ473	Carbon,	47kΩ,			R422		ERD25FJ562	Carbon,	5.6kΩ,	1/4W,	±59
- 2	ERD25TJ104	Carbon,	100kΩ,	1/4W,	±5%	R423, 424		ERD25TJ223 ·	Carbon,	22kΩ,	1/4W,	±5%
)	ERD25FJ472	Carbon,	4.7kΩ,	1/4W,	±5%	R425		ERD25FJ222	Carbon,	2.2kΩ,	1/4W,	±5%
	ERD25TJ393	Carbon,	39kΩ.	1/4W.	±5%	R426		ERD25FJ272	Carbon,	2.7kΩ,	1/4W.	±5%
2	ERD25FJ102	Carbon,	1kΩ,	1/4W.	±5%	R427	-	ERD25FJ562	Carbon,	5.6kΩ.	1/4W.	±59
	ETIDEOT OTOE	00.00				R428		ERD25TJ331		330Ω,	1/4W.	±5%
	EDD0551400	0.1	1.01.0	1 (4)41	450/				Carbon,			
3	ERD25FJ182	Carbon,	1.8kΩ,	1/4W,	±5%	R429, 430		ERD25TJ684	Carbon,	680kΩ.	1/4W,	±59
4	ERD25TJ104	Carbon,	100kΩ,	1/4W,	±5%							
5	ERD25TJ183	Carbon,	18kΩ,	1/4W,	±5%	R431		ERD25FJ332	Carbon,	3.3kΩ,	1/4W,	±59
6	ERD25FJ221	Carbon,	220Ω.	1/4W,	±5%	R439		ERD25TJ334	Carbon,	330kΩ.	1/4W.	±59
	ERD25TJ223	Carbon,	22kΩ,	1/4W.	±5%	R501	1	ERD25TJ393	Carbon,	39kΩ.	1/4W.	±59
							1 1					
8	ERD25FJ272	Carbon,	2.7kΩ,	1/4W.	±5%	R502	-	ERD25FJ272	Carbon,	2.7kΩ,	1/4W,	±59
9	ERD25FJ681	Carbon,	680Ω;	1/4W,	±5%	R503		ERD25FJ822	Carbon,	8.2kΩ,	1/4W,	±5%
01	ERD25FJ271	Carbon,	270Ω,	1/4W,	±5%	R504		ERD25FJ102	Carbon,	1kΩ,	1/4W,	±5%
02	ERD25FJ151	Carbon,	150Ω.	1/4W.	±5%	R505	1 -	ERD25FJ151	Carbon,	150Ω.	1/4W.	±5%
	ERD25FJ331	Carbon,	330Ω,	1/4W,	±5%	R506		ERD25FJ471		470Ω.	1/4W,	±59
03, 104	ENDZ9F3331	Carson	www.	17-4447	1000		+		Carbon,			
	4 4 2 3 9 5		0000		10000	R507		ERD25TJ153	Carbon,	15kΩ,	1/4W,	±5°
05	ERD25FJ391	Carbon,	390Ω,	1/4W,	±5%	R508		ERD25FJ562	Carbon,	5.6kΩ,	1/4W,	±59
06	ERD25TJ123	Carbon,	12kΩ,	1/4W,	±5%				1 1 2 1			
07	ERD25FJ103	Carbon,	10kΩ,	1/4W,	±5%	R509		ERD25FJ152	Carbon,	1.5kΩ,	1/4W.	±59
08	ERQ25CKF3001	Metal Film,	3kΩ,	1/4W.	±1%	R510		ERD25FJ561	Carbon,	560Ω.	1/4W.	±59
			3.3kΩ,	1/4W,	±5%							
09	ERD25FJ332	Carbon,				R511	-	ERD25FJ472	Carbon,	4.7kΩ,	1/4W,	±59
10	ERD25FJ100	Carbon,	10Ω,	1/4W,	±5%	R512		ERD25TJ154	Carbon,	150kΩ,	1/4W,	±59
11	ERD25FJ102	Carbon,	1kΩ,	1/4W,	±5%	R513	1 3 49	ERD25TJ104	Carbon,	100kΩ,	1/4W.	±5°
01, 202	ERD25TJ104	Carbon,	100kΩ,	1/4W.	±5%	R514	12.37	ERD25FJ122	Carbon,	1.2kΩ,	1/4W,	±59
03, 204	ERD25TJ473	Carbon,	47kΩ,	1/4W,	±5%	R515		ERD25FJ272	Carbon,	2.7kΩ,	1/4W,	±59
			10kΩ,	1/4W.	±5%				The state of the s			
05	ERD25FJ103	Carbon,	1UK22,	17-400,		R516		ERD25TJ563	Carbon,	$56k\Omega$ ,	1/4W,	±59
		100				R517		ERD25FJ151	Carbon,	150Ω,	1/4W.	±59
06	ERD25FJ562	Carbon,	$5.6k\Omega$ ,	1/4W.	±5%	R518, 519		ERD25FJ103	Carbon,	10kΩ,	1/4W,	±59
07	ERD25TJ563	Carbon,	56kΩ,	1/4W,	±5%	2222000			The state of the s			
108	ERD25TJ183	Carbon,	18kΩ,	1/4W.	±5%	R520		ERD25TJ153	Carbon,	15kΩ,	1/4W.	±59
			1.2kΩ,	1/4W.	±5%							
09	ERD25FJ122	Carbon,				R521		ERD25FJ151	Carbon,	150Ω,	1/4W,	±59
10	ERD25FJ681	Carbon,	680Ω,	1/4W,	±5%	R522	100	ERD25FJ330	Carbon,	33Ω,	1/4W,	±59
11	ERD25FJ221	Carbon,	$220\Omega$ ,	1/4W.	±5%	R523		ERD25FJ331	Carbon,	$330\Omega$ ,	1/4W,	±59
12	ERD25FJ391	Carbon,	390Ω,	1/4W,	±5%	R524		ERD25TJ473	Carbon,	47kΩ.	1/4W.	±59
13	ERD25TJ183	Carbon,	18kΩ,	1/4W.	±5%	R525		ERD25FJ103	Carbon,	10kΩ,	1/4W.	±59
	ERD25FJ182	Carbon,	1.8kΩ,	1/4W,	±5%	R601	DEST. C.	ERD25FJ332	The second secon	3.3kΩ,	1/4W,	±59
14									Carbon,			
15, 216	ERD25FJ221	Carbon,	$220\Omega$ ,	1/4W,	±5%	R602, 603	ALL STATES	ERD25FJ562	Carbon,	5.6kΩ,	1/4W.	±5
						R604		ERD25FJ562	Carbon,	5.6kΩ,	1/4W,	±59
17	ERD25FJ103	Carbon,	10kΩ,	1/4W.	±5%	R605		ERD25TJ473	Carbon,	47kΩ,	1/4W,	±5°
18	ERD25FJ822	Carbon,	8.2kΩ,	1/4W,	±5%	a Carrier in			-			
	ERD25FJ221	Carbon,	220Ω,	1/4W.	±5%	I was a second		EDDSEE 1472	Carbon	4.71-0	1/414/	457
219						R606		ERD25FJ472	Carbon,	4.7kΩ,	1/4W.	±59
220	ERD25FJ332	Carbon,	3.3kΩ,	1/4W,	±5%	R607	1	ERD25FJ562	Carbon,	5.6kΩ,	1/4W,	±59
221	ERD25FJ562	Carbon,	5.6kΩ,	1/4W.	±5%	R608		ERD25FJ472	Carbon,	4.7kΩ,	1/4W,	±59
301	ERD25FJ682	Carbon,	6.8kΩ	1/4W.	±5%	R609		ERD25FJ391	Carbon,	390Ω.	1/4W.	±59
302	ERD25FJ103	Carbon,	10kΩ.	1/4W,	±5%	R610, 611		ERD25FJ330	Carbon,	33Ω,	1/4W.	±59
803, 304	ERD25FJ102	Carbon,	1kΩ,	1/4W.	±5%	R612	-	ERD25TJ104	Carbon,	100kΩ,	1/4W	±59
	The state of the s	The state of the s		1/4W.	±5%							
105	ERD25TJ333	Carbon,	33kΩ,			R651, 652	100	ERD25TJ333	Carbon,	33kΩ,	1/4W,	±5
306, 307	ERD25FJ392	Carbon,	3.9kΩ,	1/4W.	±5%	R653		ERD25TJ104	Carbon,	100kΩ.	1/4W.	±59
	The state of the s					R654	4	ERD25TJ333	Carbon,	33kΩ,	1/4W,	±59
308, 309	ERD25FJ472	Carbon,	4.7ks2;	1/4W,	±5%	R655	11	ERD25TJ104	Carbon,	100kΩ,	1/4W,	±59
310, 311	ERD25FJ103	Carbon,	10kΩ,	1/4W,	±5%	R701	A	ERD50FJ100	Carbon,	10Ω,	1/2W,	±59
							477					
312,313	ERD25FJ103	Carbon,	10kΩ,	1/4W.	±5%	R702	91 10	ERD25FJ102	Carbon,	1kΩ,	1/4W,	±5
314,315	ERD25FJ472	Carbon,	4.7kΩ,	1/4W,	±5%							
316.317	ERD25FJ681	Carbon,	$680\Omega$ ,	1/4W.	±5%	R703		ERD25FJ101	Carbon,	100Ω,	1/4W.	±5
18, 319	ERD25TJ104	Carbon,	100kΩ,	1/4W.	±5%	R704		ERD25FJ102	Carbon,	1kΩ,	1/4W,	±5
	ERD25TJ333	Carbon,	33kΩ,	1/4W,	±5%	R705		ERD25FJ101	Carbon,	100Ω,	1/4W,	±5
								Principal Company of the Company				
03.404	ERD25TJ273	Carbon,	27kΩ,	1/4W.	±5%	R706		ERD25FJ100	Carbon,	10Ω,	1/4W,	±5°
105	ERD25TJ333	Carbon,	33kΩ,	1/4W,	±5%	R707		ERD25FJ272	Carbon,	2.7kΩ,	1/4W,	±5
106, 407	ERD25TJ473	Carbon,	47kΩ,	1/4W,	±5%	R708		ERD25FJ681	Carbon,	680Ω,	1/4W,	±5
						R709		ERD25FJ222	Carbon.	2.2kΩ,	1/4W,	±5
108	ERD25TJ183	Cartons	ı8kΩ,	1/4W,	±5%				1.5000000000000000000000000000000000000	150kΩ,	1/4W.	±5
		Carbon,				R710		ERD25TJ154	Carbon,	150K32,	TAMENA!	10
109	ERD25FJ103	Carbon,	10kΩ,	1/4W,	±5%		-					
110	ERD25FJ332	Carbon,	3.3kΩ,	1/4W.	±5%	R711		ERD25TJ684	Carbon,	680kΩ,	1/4W.	±5
111	ERD25FJ102	Carbon,	1kΩ,	1/4W,	±5%	R712		ERD25TJ153	Carbon,	15kΩ.	1/4W.	±5
	ERD25TJ562		5.6kΩ,		±5%			ERD25TJ474		470kΩ,	1/4W.	
412		Carbon,		1/4W,		R713	+		Carbon,			±5°
413	ERD25FJ472	Carbon,	4.7kΩ,	1/4W,	±5%	R714		ERD25FJ332	Carbon,	3.3kΩ,	1/4W,	±5
414	ERD25TJ331	Carbon,	330Ω,	1/4W.	±5%	R715		ERD25FJ100	Carbon,	10Ω,	1/4W,	±5

This schematic diagram may be modified at any time with the development of new technology.

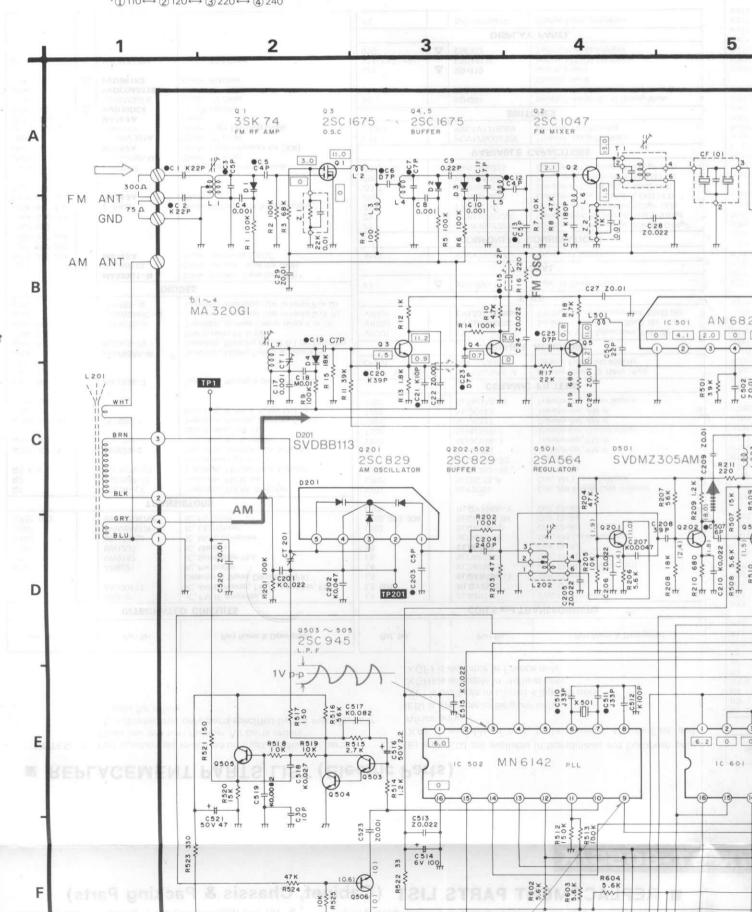
Ref. No.	Part No.	Par	t Name & De	scriptio	on	, Ref. No.		Part No.	Par	t Name & D	escripti	on
	CAP	ACITORS		-		C223	I.J	ECKD1H103MD	Ceramic,	0.01μF,	50V.	±20%
C1 C2 C3 C4 C5 C6 C7 C8	ECCD1H220KC ECCD1H220KC ECCD1H050CC ECKD1H102MD ECCD1H040CC ECCD1H070CC ECCD1H070CC ECKD1H102MD	Ceramic, Ceramic, Ceramic, Ceramic, Ceramic, Ceramic, Ceramic, Ceramic,	22pF, 22pF, 5pF, 0.001μF, 4pF, 7pF, 7pF, 0.001μF,	50V, 50V, 50V, 50V, 50V, 50V, 50V,	±10% ±10% ±0.25pF ±0.25pF ±0.25pF ±0.25pF ±0.25pF ±0.25pF	C301 C302 C303 C304 C305 C306 C307, 308 C309, 310		ECQS1102JZ ECEA50Z1 ECEA50ZR1 ECQM1H182JZ ECEA50Z1 ECEA1ES220 ECQM1H223KZ ECQM1H272KZ	Polystyrene, Electrolytic, Electrolytic, Polyester, Electrolytic, Electrolytic, Polyester, Polyester,	0.001µF, 1µF, 0.1µF, 0.0018µF, 1µF, 22µF, 0.0027µF,	50 V 25 V 50 V,	±5% ±5% ±10% ±10%
C9 C10	ECKD1H102MD	Ceramic, Ceramic,	0.22pF, 0.001μF,	50V, 50V,	±10% ±20%	C311, 312 C313, 314		ECKD1H331KB ECQM1H222KZ	Ceramic, Polyester,	330pF, 0.0022μF,	50V,	±10% ±10%
C11 C12 C13 C14 C15	ECCD1H070CC ECCD1H040CC ECCD1H050CC ECCD1H181K ECCD1H020CC	Ceramic, Ceramic, Ceramic, Ceramic, Ceramic,	7pF, 4pF, 5pF, 180pF, 2pF,	50V, 50V, 50V, 50V, 50V,	±0.25pF ±0.25pF ±0.25pF ±10% ±0.25pF	C315, 316 C401 C402 C404 C405	Δ	ECEA50ZR33 ECQM1H153KZ ECKD1H103ZF ECEA16N10 ECEA1CS330	Electrolytic, Polyester, Ceramic, Non-polar Ele Electrolytic,	0.33μF, 0.015μF, 0.01μF, ectrolytic, 1 33μF,	50V, 50V, 50V, 0μF, 16 16V	±10% +80, -20% V
C17 C18 C19 C20 C21	ECKD1H102MD ECKD1H103MD ECCD1H050CC ECCD1H390KC ECCD1H100KC	Ceramic, Ceramic, Ceramic, Ceramic, Ceramic,	0.001µF, 0.01µF, 5pF, 39pF, 10pF,	50V, 50V, 50V, 50V,	±20% ±20% ±0.25pF ±10% ±10%	C406 C407, 408 C501 C502 C504		ECEA50Z1 ECQM1H473KZ ECCD1H220KC ECKD1H103ZF ECKD1H103ZF	Electrolytic, Polyester, Ceramic, Ceramic, Ceramic,	1μF, 0.047μF, 22pF, 0.01μF, 0.01μF,	50V 50V, 50V, 50V,	±10% ±10% +80, -20% +80, -20%
C22 C23 C24 C25 C26 C27	ECKD1H102ZF ECCD1H070DC ECKD1H223ZF ECCD1H070CC ECKD1H103ZF ECKD1H103ZF	Ceramic, Ceramic, Ceramic, Ceramic, Ceramic,	0.001µF, 7pF, 0.022µF, 7pF, 0.01µF, 0.01µF,	50V, 50V, 50V, 50V, 50V,	+80, -20% ±0.5pF +80, -20% ±0.25pF +80, -20% +80, -20%	C505 C506 C507 C508 C509 C510, 511		ECCD1H101K ECKD1H223ZF ECCD1H060CC ECKD1H223ZF ECKD1H103ZF ECCD1H330JC	Ceramic, Ceramic, Ceramic, Ceramic, Ceramic,	100pF, 0.022μF, 6pF, 0.022μF, 0.01μF,	50V, 50V, 50V, 50V,	±10% +80, -20% ±0.25pF +80, -20% +80, -20%
C28 C29 C30 C101, 102	ECKD1H223ZF ECKD1H103ZF ECCD1H100KC ECKD1H223ZF	Ceramic, Ceramic, Ceramic, Ceramic,	0.022μF, 0.01μF, 10pF, 0.022μF,	50V, 50V, 50V, 50V,	+80, -20% +80, -20% ±10% +80, -20%	C512 C513 C514 C515	10224	ECCD1H101K ECKD1H223ZF ECEA1AS101 ECQM1H223KZ	Ceramic, Ceramic, Ceramic, Electrolytic, Polyester,	33pF, 100pF, 0.022μF, 100μF, 0.022μF,	50V, 50V, 50V, 10V 50V,	±5% ±10% +80, -20% ±10%
C103, 104 C105 C106 C107, 108 C109 C110 C111 C112 C113, 114 C201	ECKD1H223ZF ECEA50Z3R3 ECEA1HS100 ECKD1H223ZF ECEA50ZR47 ECEA1ES220 ECKD1H223ZF ECEA1CS331 ECKD1H223ZF ECKD1H223ZF	Ceramic, Electrolytic, Electrolytic, Ceramic, Electrolytic, Ceramic, Electrolytic, Ceramic, Polyester,	0.022µF, 3.3µF, 10µF, 0.022µF, 0.47µF, 22µF, 0.022µF, 330µF, 0.022µF, 0.022µF,	50V, 50V 50V 50V 50V 25V 50V, 16V 50V,	+80, -20% +80, -20% +80, -20% +80, -20% ±10%	C516 C517 C518 C519 C520 C521 C522 C523 C601 C602	SEPA	ECEA50M2R2R ECQM1H823KZ ECQM1H273KZ ECQM1H822KZ ECKD1H103ZF ECEA1HS470 ECKD1H223ZF ECKD1H102ZF ECEA1AS470 ECKD1H102ZF	Electrolytic, Polyester, Polyester, Polyester, Ceramic, Electrolytic, Ceramic, Electrolytic, Ceramic, Ceramic,	2.2µF, 0.082µF, 0.027µF, 0.0082µF, 0.01µF, 47µF, 0.022µF, 0.001µF, 47µF,	50V 50V, 50V, 50V, 50V, 50V, 50V, 10V 50V,	±10% ±10% ±10% +80, -20% +80, -20% +80, -20%
C202 C203 C204 C205, 206 C207 C208 C209 C210 C211 C211	ECQM1H473KZ ECCD1H050CC ECQS1241JZ ECKD1H223ZF ECQM1H472KZ ECCD1H390KC ECKD1H103ZF ECQM1H223KZ ECKD1H223ZF ECQM1H12Z3ZF ECQM1H12ZJZ	Polyester, Ceramic, Polystyrene, Ceramic, Polyester, Ceramic, Ceramic, Polyester, Ceramic, Polyester,	0.047µF, 5pF, 240pF, 0.022µF, 0.0047µF, 39pF, 0.011µF, 0.022µF, 0.022µF,	50V, 50V, 125V, 50V, 50V, 50V, 50V, 50V, 50V,	±10% ±0.25pF ±5% +80, -20% ±10% ±10% +80, -20% ±10% +80, -20% ±5%	C603 C606 C607 C608 C701, 702 C703 C704 C705 C706 C707		ECEA1AS221 ECEA1JS4R7 ECEA1AS221 ECEA1JS4R7 ECEA1CS102 ECKD1H103ZF ECEA1CS330 ECEA1VS102 ECEA1CS331 ECKD1H103ZF	Electrolytic, Electrolytic, Electrolytic, Electrolytic, Ceramic, Electrolytic, Electrolytic, Electrolytic, Ceramic,	220µF, 4.7µF, 220µF, 4.7µF, 1000µF, 0.01µF, 33µF, 1000µF, 330µF, 0.01µF,	6.3V 63V 10V 63V 16V 50V, 16V 35V 16V 50V,	+80, -20%
C213 C214 C215 C216, 217 C218 C219 C220 C221 C221	ECKD1H103MD ECEA1H5100 ECCD1H560KC ECKD1H2232F ECEA50ZR1 ECKD1H1233ZF ECKD1H103MD ECCD1H121K ECEA50Z1	Ceramic, Electrolytic, Ceramic, Ceramic, Electrolytic, Ceramic, Ceramic, Electrolytic,	0.01µF, 10µF, 56pF, 0.022µF, 0.1µF, 0.022µF, 0.01µF, 120pF, 1µF,	50V, 50V, 50V, 50V, 50V, 50V, 50V, 50V,	±20% ±10% +80, -20% +80, -20% ±20% ±10%	C708 C709 C710 C711 C712 C713 C714, 715 C716 C717, 718	R H	ECEA1V\$330 ECEA1V\$101 ECEA1J\$330 ECEA1J\$487 ECEA1H\$100 ECKD1H103ZF ECKDKC103PF ECEA50Z3R3 ECEA1C\$330	Electrolytic, Electrolytic, Electrolytic, Electrolytic, Ceramic, Ceramic, Electrolytic, Electrolytic,	33μF, 100μF, 33μF, 4.7μF, 10μF,	35 V 35 V 63 V 63 V 50 V 50 V	+80, -20% , +100, -0%

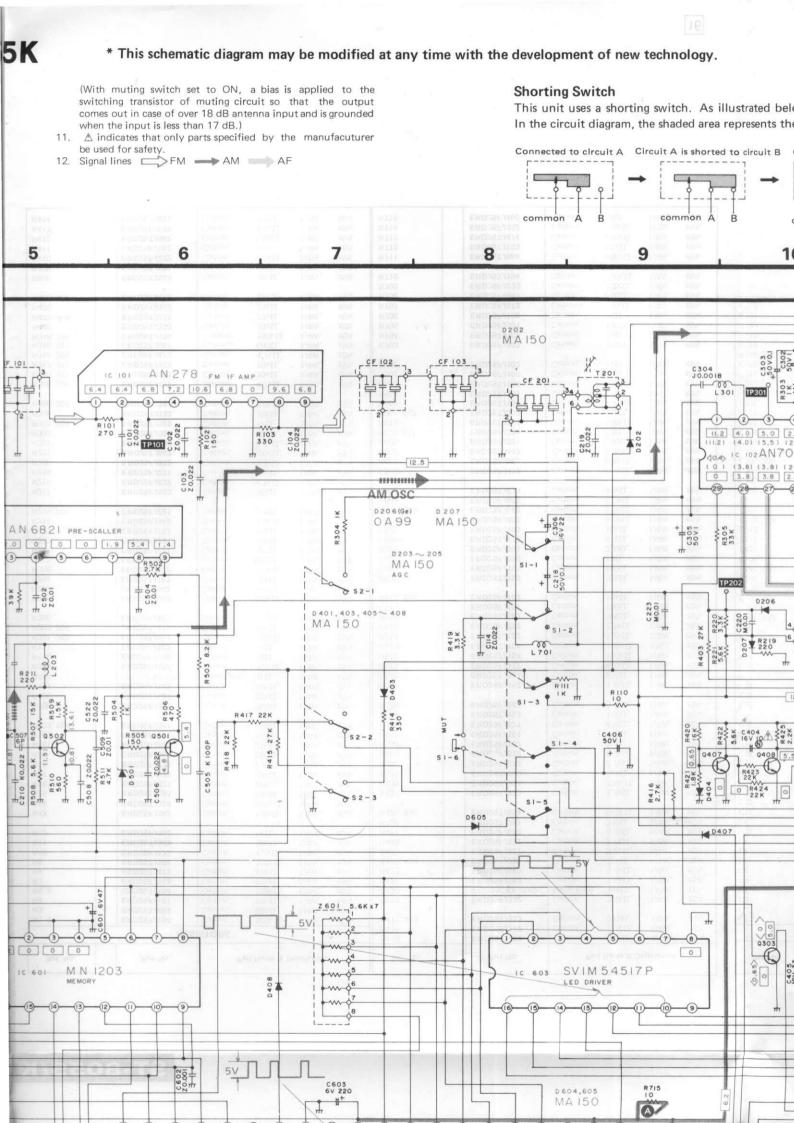
# Schematic Diagram ..... Model ST-8055/ST-8055K

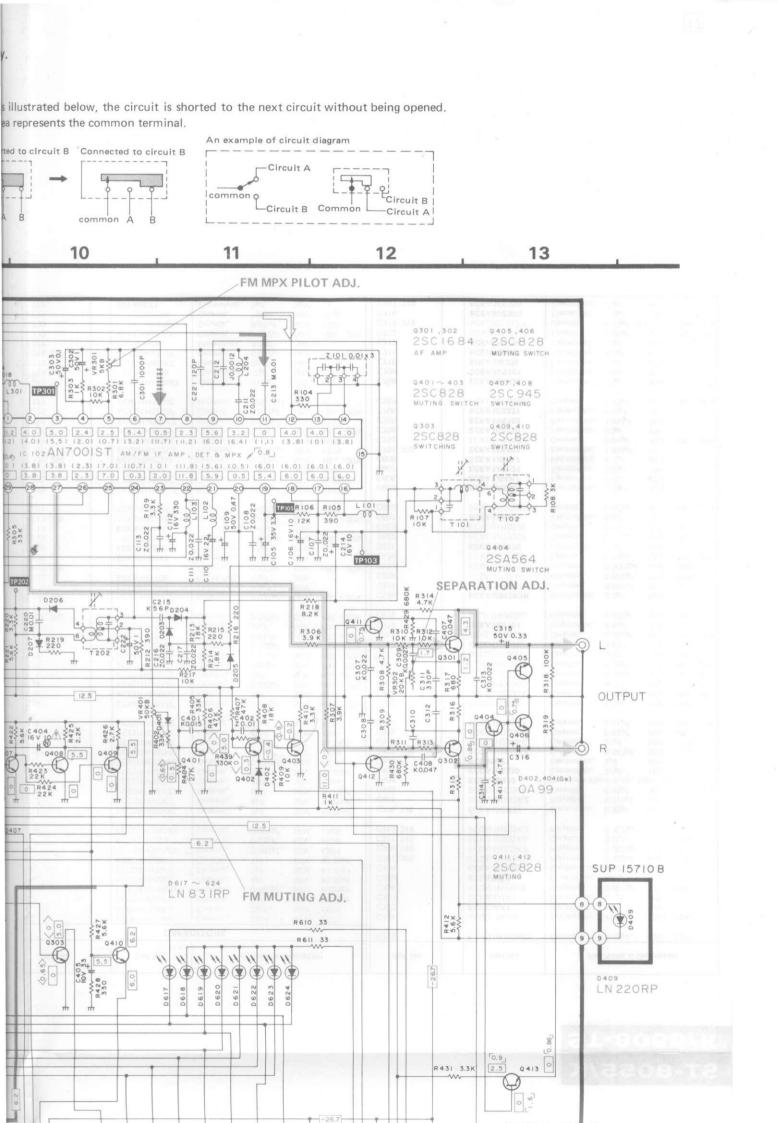
- S1-1~S1-6: Band selector switch in "FM" position.
- 2. S2-1~S2-3: FM-AM muting/FM mode selector in "on/auto" position
- 3. Manual tuning (down) switch.
- S4: Manual tuning (UP) switch. 4. 5. S5:
- Memory write switch. S6~S12: Preset-tuning switch.
- Power source switch in "on" position. S13:
- 8. S14: FM-AM allocation switch ([XA] only)
- Voltage adjuster switch in "240V" position.
  - 1 110 ↔ 2 120 ↔ 3 220 ↔ 4 240

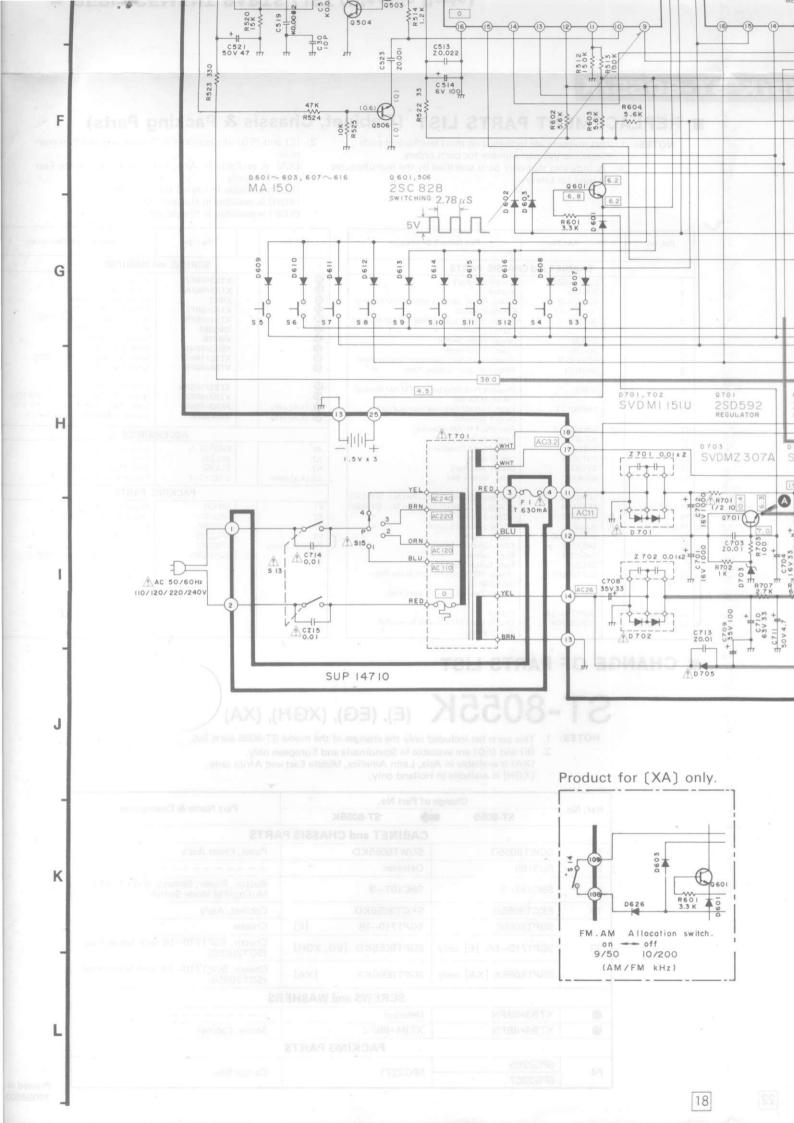
- 10. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
  - □ Voltage during FM monaural or non-signal reception,

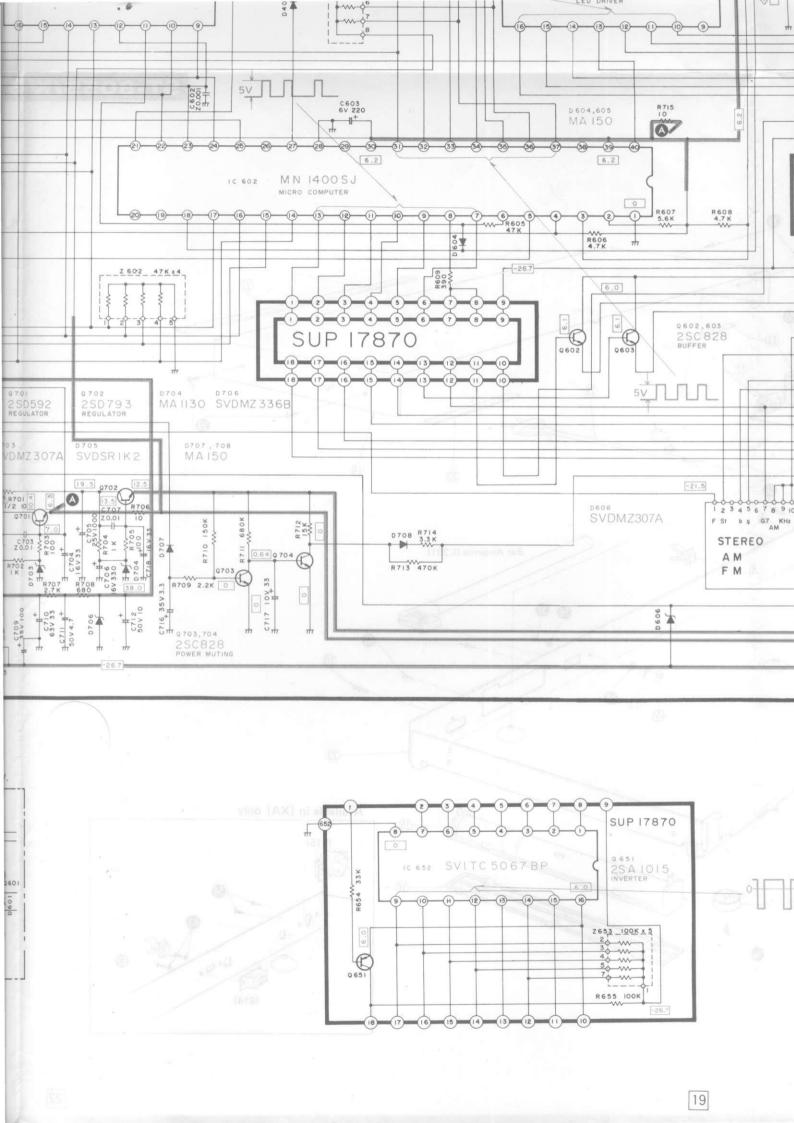
    ) Voltage in AM mode, < > Voltage during FM > Voltage during FM
  - stereo reception.

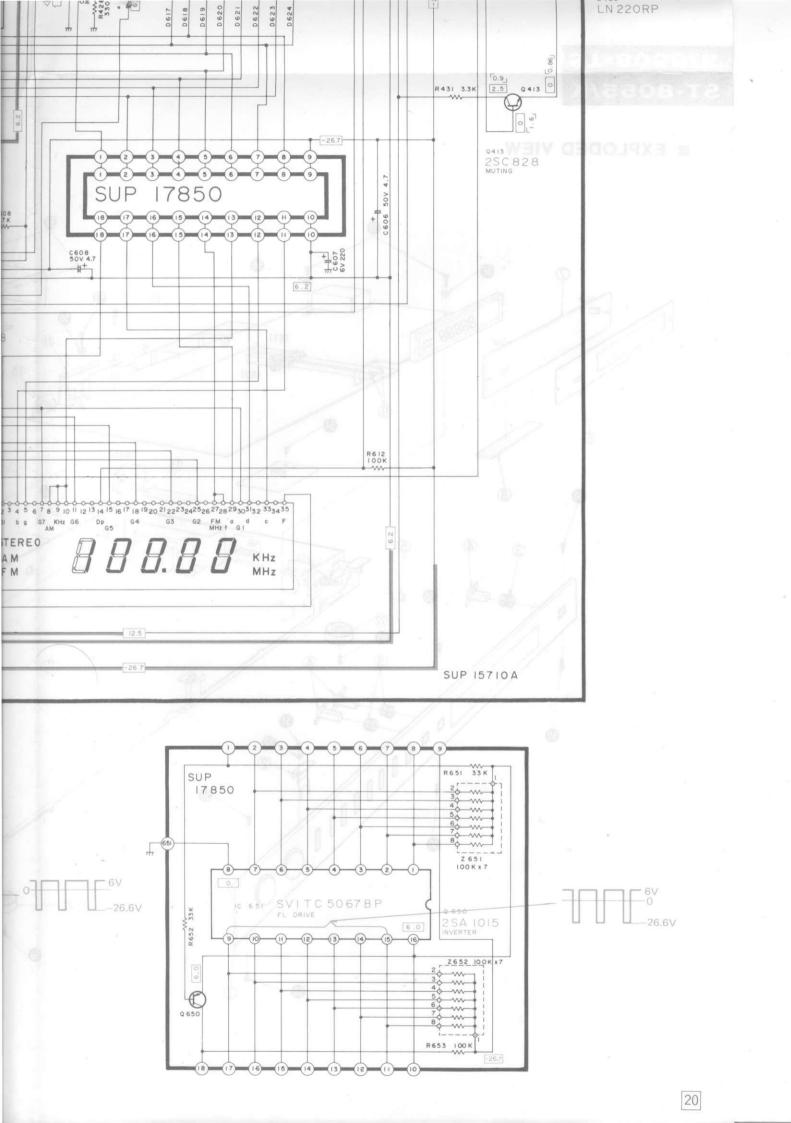






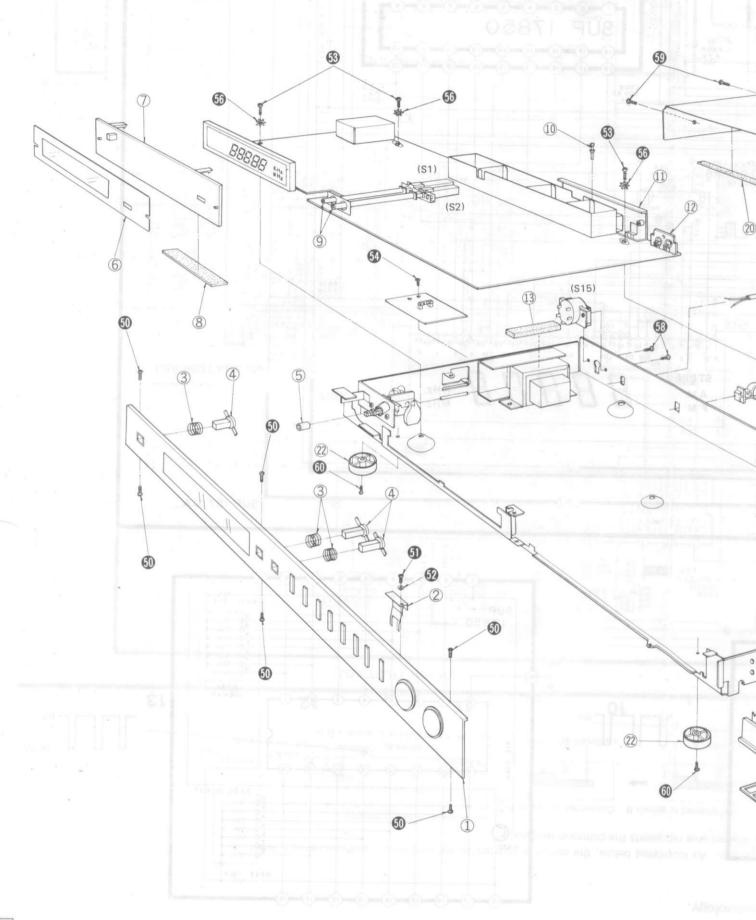






31-8055/K

## ■ EXPLODED VIEW



#### ■ REPLACEMENT PARTS LIST (Cabinet, Chassis & Packing Parts)

NOTES: 1. Part numbers are indicated on most mechanical parts
Please use this part number for parts orders

A indicates that only parts specified by the manufacturer be used for safety. 3. (E) and (EG) are available in Scandinavia and European only.

(XA) is available in Asia, Latin America, Middle East and Africa only.

(XE) is available in United Kingdom only.

(XGH) is available in Holland only.

(XGF) is available in France only.

Ref. No.		Part No.	Part Name & Description
		CABINET and	CHASSIS PARTS
1		SGWT8055D	Panel Front Ass'y
2		SUS185	Bracket
3		SUS123-2	Spring, Power, Selector and FM AM Muting/ FM Mode Switch
4	-	SBC197-2	Button, Power, Selector and FM AM Muting/ FM Mode Switch
5		SUB39	Spacer, Power Switch
6		SDU25-1	Filter, Tinted Plate
7		SGU105	Transparent Cover, Indication Display Panel
8		SHS1011	Fiber, Indication Display Panel
9		SUB29	Coupling Rod, Selector and FM AM Muting/
10			FM Mode Switch
10	100	SHR401-1	Latch, FM/AM Antenna Terminal and Output Terminal
11	-	SJF4419-2	Terminal, FM/AM Antenna
12		SJF3207-1	Terminal, Output
13		SHG647	Fiber, Power Transformer
14	4	RJT202B	Lug, Ground
15		SYE697	Battery Box Ass'y
16		SJB9001	Cover, Battery Box
17		SFSR4N4	Bushing, AC Cord (Product Part No.: SHR127)
17 [XE] only		SFSR5N4	Bushing, AC Cord (Product Part No.: SHR129)
18	Δ	RJA23ZC	AC Cord, Power Source
18 [XE] only	Δ	RJA45ZC SKCT8055D	AC Cord, Power Source Cabinet, Ass'y
20		SHS1013	Fiber, Cabinet
21		SHS1009	Fiber, Cabinet
22	-	SKL227	Foot, Bottom Board
23	13	SGPT8055E	Chassis, SGP1710-1A with Name Plate
ELL Y TOY Y	10%		(SGT20810)
			(Except Product for [E] and [XA])
23 [E] only		SGP1710-1A	Chassis
23 [XA] only	227	SGPT8055X	Chassis, SGP1710-2A with Name Plate

Ref. No.	Part No.	Part Name & Description
	SCREWS a	and WASHERS
ଚ୍ଚଳ ବ୍ୟବ୍ୟ ବ୍ୟ	XTB3+8BFZ XTB3+8BFN XWE3 XTB3+8BFZ XTB3+8BFN XNG3ES XWC3B XSN3+8BVS XTB3+16BFZ XTB4+8BFN	Screw, Front Panel M'tg Screw, Bracket Washer, Bracket Screw Screw, Main P.C.B. M'tg Screw, Power Fuse P.C.B. M'tg Nut, Ground Lug M'tg Washer, Ground Lug Screw, Ground Lug Screw, Cabinet
(1) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	XTB3+10BFN XTB3+8BFZ XSN3+6BVS XWA3BFZ	Screw, Foot M'tg Screw, FM/AM Antenna Terminal M'tg Screw, FM/AM Allocation Switch M'tg Washer, FM/AM Allocation Switch
	ACCE	SSORIES
A1 A2 A3 A4 [XA] only	SJP2129-5 SKL235 SSA267 SJP5213-1	Cord, Connection Shield Foot Cord, FM Indoor Antenna Plug Adaptor, Power Source
	PACKI	NG PARTS
P1 P2 P3 P4 P4 [XGF] only P5	SPP637 SPS2295 SPS2297 SPG2265 SPG2267 SQF10243	Polyethylene Bag Pad, Left and Right Side Pad, Top Side Carton Box Carton Box Instructions Book, Printed Matter

## ■ CHANGE OF PARTS LIST

# ST-8055K (E), (EG), (XGH), (XA)

NOTES: 1. This parts list included only the changes of the model ST-8055 parts list.

(E) and (EG) are available in Scandinavia and European only.
 (XA) is available in Asia, Latin America, Middle East and Africa only.
 (XGH) is available in Holland only.

D-C N-	Change	of Part No.	Dest News & Destrict		
Ref. No.	ST-8055	▶ ST-8055K	Part Name & Description		
		CABINET and CHASSIS P	ARTS		
1	SGWT8055D	SGWT8055KD	Panel, Front Ass'y		
2	SUS185	Deletion			
4	SBC197-2	SBC197-3	Button, Power, Selector and FM AM Muting/FM Mode Switch		
19	SKCT8055D	SKCT8055KD	Cabinet, Ass'y		
a Mil	SGPT8055E	SGP1710-1B [E]	Chassis		
23	SGP1710-1A [E] only	SGPT8055KD [EG, XGH]	Chassis, SGP1710—1B with Name Plate (SGT20850)		
	SGPT8055X [XA] only	SGPT8055KX [XA]	Chassis, SGP1710—2A with Name Plate (SGT20850)		
	og trout mit i ligen New	SCREWS and WASHE	RS		
1	XTB3+8BFN	Deletion			
1	XTB4+8BFN	XTB4+8BFZ	Screw, Cabinet		
		PACKING PARTS	1000		
P4	SPG2265		0 0		
F4	SPG2267	SPG2271	Carton Box		

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