# OICOM

# SERVICE MANUAL

HF TRANSCEIVER	
<b>IC-728</b>	3

Icom Inc.

# INTRODUCTION

This service manual describes the latest service information for the IC-728 HF TRANSCEIVER at the time of publication.

VERSION NO.	VERSION	SYMBOL
#02	Other	OTH
#03	France	FRA

To upgrade quality, all electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

# DANGER

**NEVER** connect the transceiver to an AC outlet or to a DC power supply that uses more than 16 V. This will ruin the transceiver.

DO NOT expose the transceiver to rain, snow or any liquids.

**DO NOT** reverse the polarities of the power supply when connecting the transceiver.

**DO NOT** apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.



# ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

- 1. 10-digit order numbers
- 2. Component part number and name
- Equipment model name and unit name
- 4. Quantity required

# <SAMPLE ORDER>

1790000050 IC ND487C1-3R IC-728 MAIN UNIT 5 pieces 8810002160 Screw FH M3 × 6 IC-728 Chassis 10 pieces

Addresses are provided on the inside back cover for your convenience.

# **REPAIR NOTES**

- Make sure a problem is internal before disassembling the transceiver.
- DO NOT open the transceiver until the transceiver is disconnected from its power source.
- DO NOT force any of the variable components. Turn them slowly and smoothly.
- DO NOT short any circuits or electronic parts.
   An insulated tuning tool MUST be used for all adjustments.
- DO NOT keep power ON for a long time when the transceiver is defective.
- DO NOT transmit power into a signal generator or a sweep generator.
- ALWAYS connect a 50 dB~60 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
- READ the instructions of test equipment thoroughly before connecting equipment to the transceiver.

# **TABLE OF CONTENTS**

SECTION	1	SPECIFICATIONS	1 — 1
SECTION	2	BLOCK DIAGRAM	2 — 1
SECTION	3	INSIDE VIEWS 3 —	- 1 ~ 2
SECTION	4	CIRCUIT DESCRIPTION 4 —	1 ~ 10
	4 - 1	RECEIVER CIRCUITS	4 — 1
	4 - 2	TRANSMITTER CIRCUITS	4 — 5
	4 - 3	PLL CIRCUITS	4 — 8
	4 - 4	LOGIC CIRCUITS	4 — 9
	4 - 5	REGULATOR CIRCUITS	4 — 10
SECTION	5	MECHANICAL PARTS AND DISASSEMBLY 5 —	- 1 ~ <b>3</b>
	5 - 1	CHASSIS PARTS	5 — 1
	5 - 2	PA PARTS AND ACCESSORIES	5 — 3
SECTION	6	PARTS LIST 6 —	1 ~ 18
SECTION	7	ADJUSTMENT PROCEDURES 7—	1 ~ 11
	7 - 1	PREPARATION BEFORE SERVICING	7 — 1
	7 - 2	PLL ADJUSTMENT	7 — 2
	7 - 3	RECEIVER ADJUSTMENT	7 — 4
			7 0
	7 - 4	TRANSMITTER ADJUSTMENT	7 — 0
SECTION	7 - 4 <b>8</b>	BOARD LAYOUTS 8 —	
SECTION			- 1 <i>~</i> 6
SECTION	8	BOARD LAYOUTS 8 —	- <b>1</b> ~ <b>6</b> 8 — 1
SECTION	<b>8</b> 8 - 1	BOARD LAYOUTS 8 —  AF, VR AND JACK UNITS.  FRONT, LED AND PBT UNITS.	- <b>1</b> ~ <b>6</b> 8 — 1
SECTION	<b>8</b> 8 - 1 8 - 2	BOARD LAYOUTS 8 —  AF, VR AND JACK UNITS.  FRONT, LED AND PBT UNITS.	- 1 ~ 6 8 - 1 8 - 2 8 - 3
SECTION	<b>8</b> 8 - 1 8 - 2 8 - 3	BOARD LAYOUTS 8 —  AF, VR AND JACK UNITS.  FRONT, LED AND PBT UNITS.  MAIN UNIT.  PLL UNIT.	- 1 ~ 6 8 - 1 8 - 2 8 - 3
SECTION	8 8 - 1 8 - 2 8 - 3 8 - 4	BOARD LAYOUTS 8 —  AF, VR AND JACK UNITS.  FRONT, LED AND PBT UNITS.  MAIN UNIT.  PLL UNIT.	$-1 \sim 6$ $8-1$ $8-2$ $8-3$ $8-4$
SECTION	8 8-1 8-2 8-3 8-4 8-5	BOARD LAYOUTS 8—  AF, VR AND JACK UNITS.  FRONT, LED AND PBT UNITS.  MAIN UNIT.  PLL UNIT.  PA AND FILTER UNITS.	$-1 \sim 6$ $8-1$ $8-2$ $8-3$ $8-4$ $8-5$ $8-6$
	8 - 1 8 - 2 8 - 3 8 - 4 8 - 5 8 - 6	BOARD LAYOUTS 8 —  AF, VR AND JACK UNITS.  FRONT, LED AND PBT UNITS.  MAIN UNIT.  PLL UNIT.  PA AND FILTER UNITS.  DDS UNIT.	$-1 \sim 6$ $8-1$ $8-2$ $8-3$ $8-4$ $8-5$ $8-6$

# SECTION 1 SPECIFICATIONS

#### **GENERAL**

• Frequency coverage : Receive 500 kHz~30 MHz

Transmit 1.800~ 1.900000 MHz 18.068~18.168 MHz

3.500~ 4.000 MHz 21.000~21.450 MHz 7.000~ 7.300 MHz 24.890~24.990 MHz 10.100~10.150 MHz 28.000~29.700 MHz

14.000~14.350 MHz

Mode : SSB, CW, AM\*, FM\*

\*An optional U1-7 AM · FM UNIT is required for AM transmission and

FM transmission/reception.

• Number of memory channels : 2

Antenna impedance : 50 Ω nominal

Usable temperature range : −10 °C~+60°C (+14 °F~+140 °F)

• Frequency stability : Less than ±200 Hz from 1 min. to 60 min. after power ON.

Less than  $\pm 30$  Hz/hr after one hour at +25 °C (+77 °F).

Temperature fluctuations (0 °C~+50 °C; +32 °F~+122 °F) less than ±350 Hz

Power supply requirement
 13.8 V DC ±15 %
 Current drain (at 13.8 V DC)
 Transmit 20 A

Receive squelched 1.3 A max. audio output 1.6 A

• Dimensions : 241 (W) × 94 (H) × 239 (D) mm

9.5 (W)  $\times$  3.7 (H)  $\times$  9.4 (D) in (Projections not included)

• Weight : 4.6 kg (10.1 lb)

#### **TRANSMITTER**

Output power : SSB, CW, FM 10~100 W continuously adjustable

AM 10~40 W continuously adjustable

Spurious emissions
 Carrier suppression
 Unwanted sideband
 Less than -50 dB
 More than 50 dB

• Microphone impedance : 600 Ω

#### **RECEIVER**

Selectivity

• Receive system : Triple-conversion superheterodyne

• Intermediate frequencies

MODE 2nd 3rd 1st SSB 70.4515 MHz 9.0115 MHz 455 kHz CW 70.4506 MHz 9.0106 MHz 455 kHz 455 kHz AM, FM 70.4500 MHz 9.0100 MHz

• Sensitivity (Preamp ON) : SSB, CW (10 dB S/N)  $1.8\sim30$  MHz Less than 0.16  $\mu$ V

AM (10 dB S/N) 0.5 $\sim$ 1.8 MHz Less than 13.0  $\mu$ V

 $1.8\sim30$  MHz Less than  $2.0~\mu\text{V}$ 

FM (12 dB SINAD)  $28\sim30$  MHz Less than 0.5  $\mu$ V

: SSB, CW More than 2.1 kHz/-6 dB Less than 4.0 kHz/-60 dB AM More than 6.0 kHz/-6 dB Less than 20.0 kHz/-40 dB

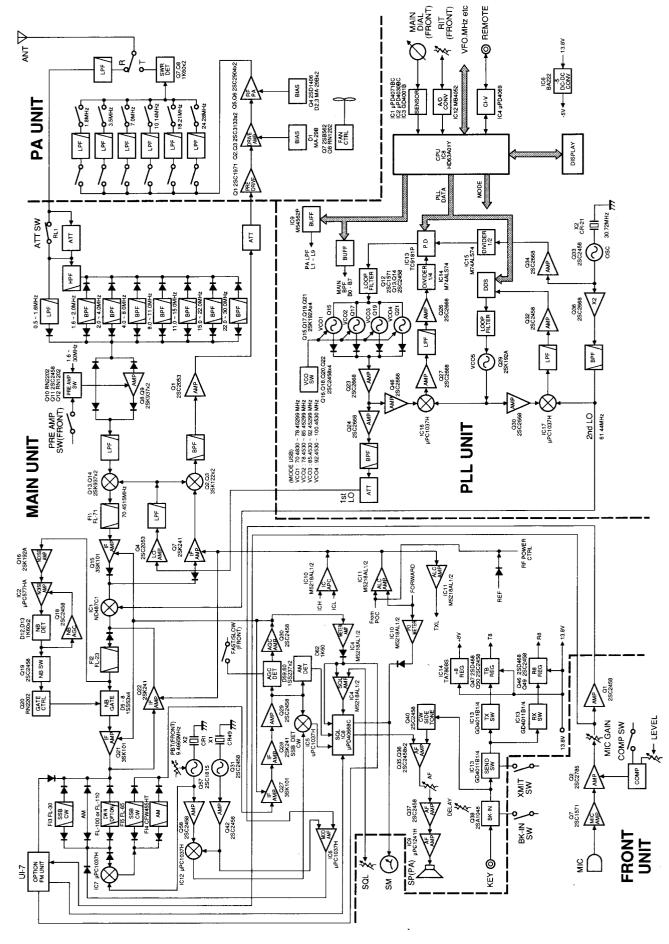
FM More than 12 kHz/-6 dB Less than 30 kHz/-50 dB

• Spurious and image rejection ratio : More than 70 dB

ullet Audio output power : More than 2.6 W with an 8  $\Omega$  load

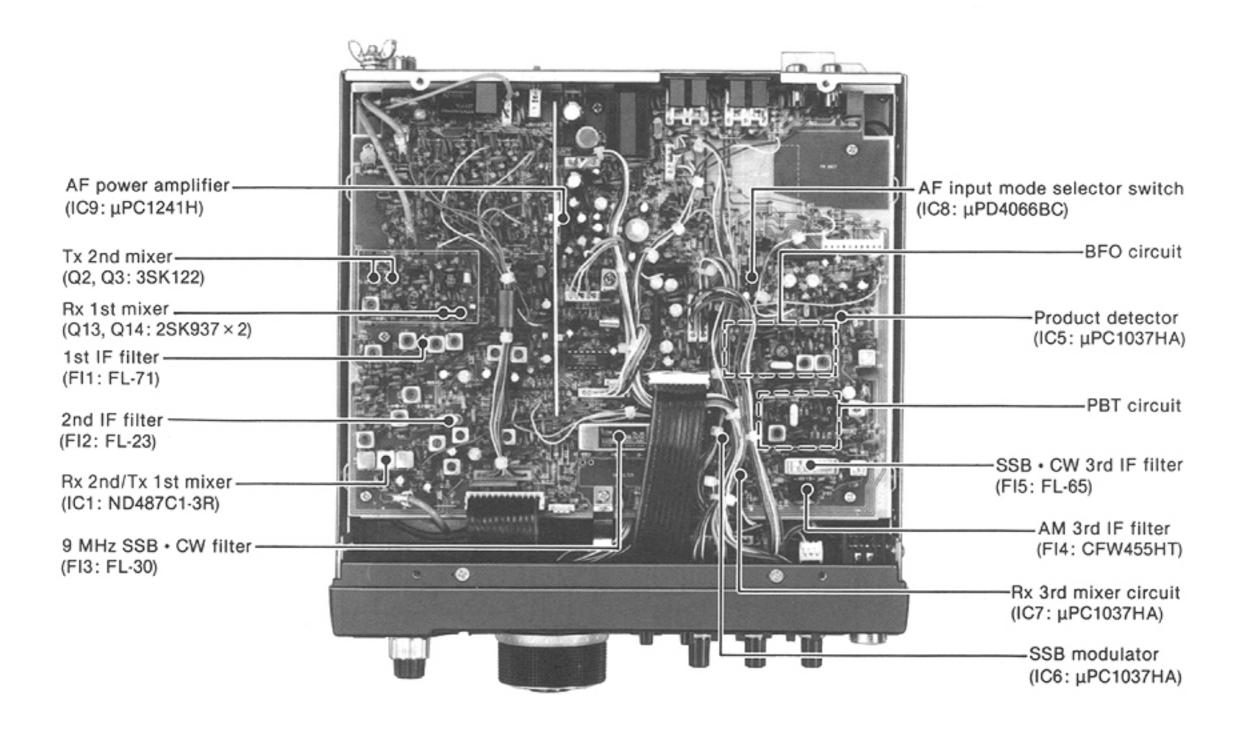
• RIT variable range : 1.2 kHz

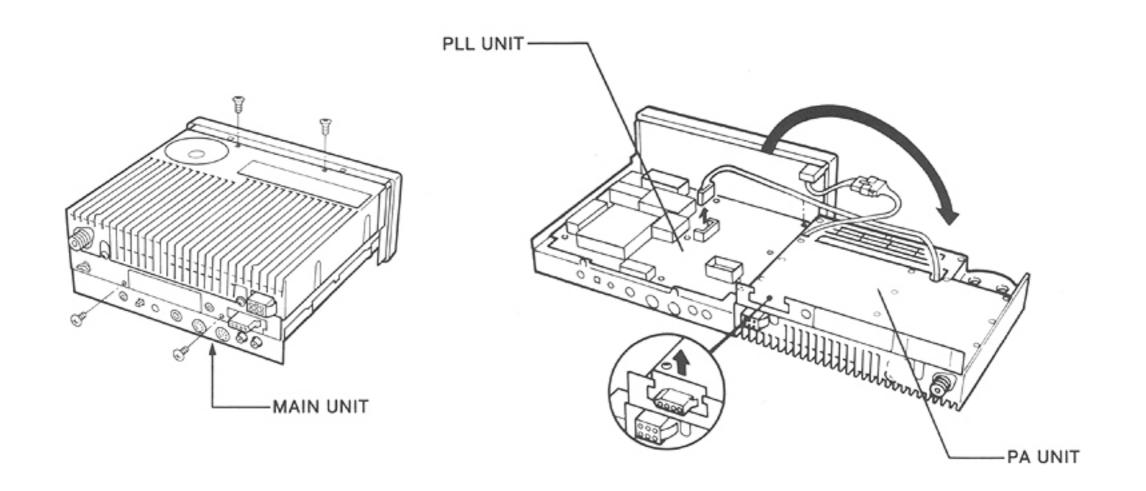
All stated specifications are subject to change without notice or obligation.



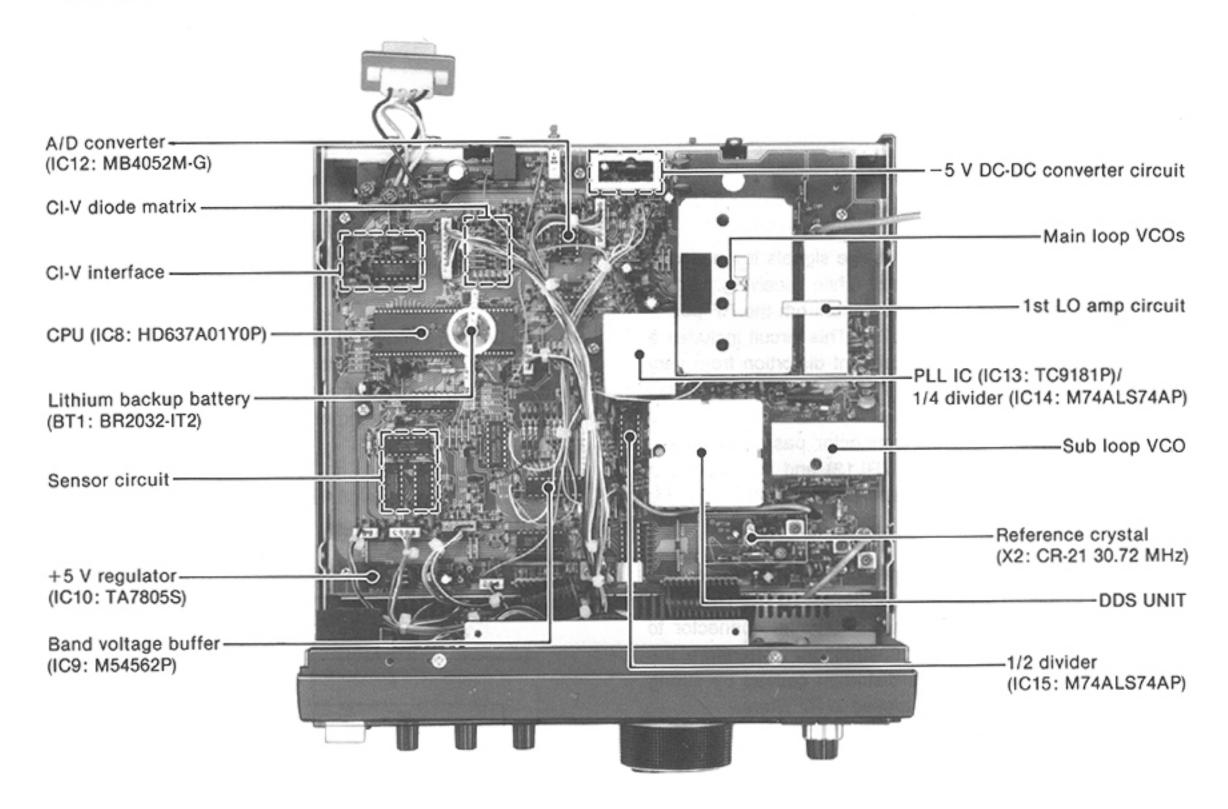
# SECTION 3 INSIDE VIEWS

# MAIN UNIT

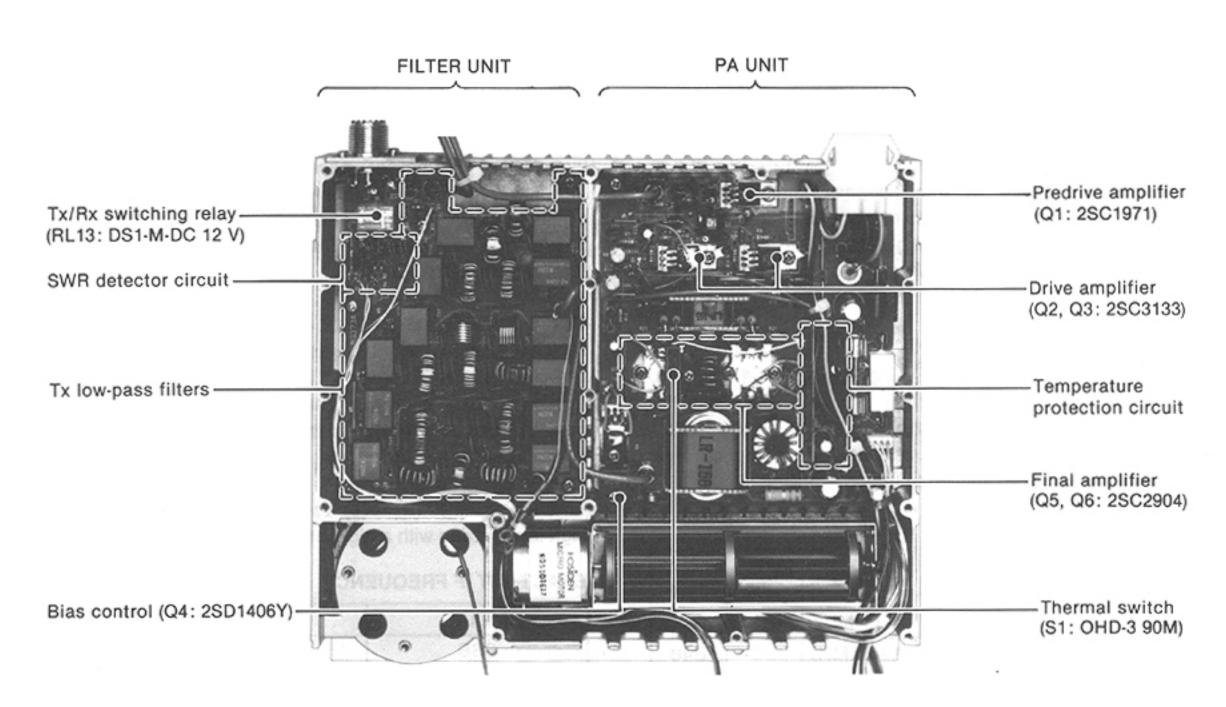




# PLL UNIT



# PA AND FILTER UNITS



# SECTION 4 CIRCUIT DESCRIPTION

#### 4-1 RECEIVER CIRCUITS

# 4-1-1 RF SWITCHING CIRCUIT (PA AND MAIN UNITS)

The RF switching circuit leads receive signals to bandpass filters from the antenna connector while receiving. While transmitting, this circuit leads the signal from the RF power amplifier to the antenna connector. This circuit includes a 20 dB RF attenuator circuit to prevent distortion from very strong signals.

RF signals from the antenna connector pass through the transmit/receive switching relay (RL13) and low-pass filter (L26, C60~C62), and are then applied to the MAIN unit via P1 (MAIN unit: J12).

The signals from the PA unit are either bypassed or are attenuated at the 20 dB attenuator (R103, RL1). There are no non-linear components from the antenna connector to the attenuator in this circuit construction. Therefore the attenuator effectively prevents distortion caused by strong signals. The signals are then applied to RF filters.

# 4-1-2 RF BANDPASS FILTER CIRCUIT (MAIN UNIT)

RF bandpass filters pass only the desired band signals and suppress any undesired band signals.

The RF circuit has 7 RF bandpass filters (BPF) for signals above 1.6 MHz and 1 low-pass filter (LPF) for signals below 1.6 MHz. The signals pass through the low-pass or one of the bandpass filters depending on their frequencies.

#### (1) 0.5~1.6 MHz

There is no diode at the low-pass filter (L38, L39, C148~C150) entrance so as to prevent distortion from very strong signals. The filtered signals bypass a preamplifier through a bypass switch (Q12) and are then applied to the 1st mixer circuit (Q13, Q14).

#### (2) 1.6~30.0 MHz

These signals pass through a high-pass filter (L42, L43, C143~C146) to suppress strong signals below 1.6 MHz, such as from broadcasting stations. The filtered signals are applied to one of 7 bandpass filters depending on their frequencies and then applied to the preamplifier circuit.

#### **USED RF FILTER**

BAND	CONTROL SIGNAL	ENTRANCE DIODE	BAND	CONTROL SIGNAL	ENTRANCE DIODE
0.5~1.6 MHz	B0	-	8~11 MHz	B4	D44
1.6~2 MHz	B1	D38	11~15 MHz	B5	D46
2~4 MHz	B2	D40	15~22 MHz	B6	D48
4~8 MHz	В3	D42	22~30 MHz	B7	D50

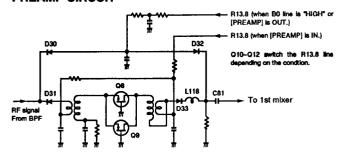
#### 4-1-3 PREAMPLIFIER CIRCUIT (MAIN UNIT)

The preamplifier circuit uses two 2SK937s to obtain 10 dB gain over a wideband frequency range. When the [PREAMP] switch on the front panel is pushed IN, the signals above 1.6 MHz are applied to the preamplifier circuit.

Q8 and Q9 are connected in parallel to easily match the impedance to 50  $\Omega$ . Q10 and Q11 switch the signals from a bandpass filter, either to be bypassed, or to be applied to the preamplifier, depending on the [PREAMP] switch condition

Amplified or bypassed signals are applied to the 1st mixer circuit (Q13, Q14).

#### PREAMP CIRCUIT



#### 4-1-4 1ST MIXER CIRCUIT (MAIN UNIT)

The 1st mixer circuit mixes the receive signals with the 1st LO signal to convert the receive signal frequencies to a 70 MHz 1st IF.

The signals from the preamplifier circuit, or signals which bypass the preamplifier, pass through a low-pass filter. This low-pass filter suppresses signals above 30 MHz to eliminate direct receiving of signals at 70 MHz and image interference at 140 MHz. Then the signals are applied to the 1st mixer (Q13, Q14).

The 1st LO signal (70.4800~100.4535 MHz) enters the MAIN unit from the PLL unit via J5. The LO signal is amplified at Q4, filtered by a low-pass filter, and then, applied to the 1st mixer. The low-pass filter uses a ring core inductor to prevent leakage of 1st LO signals. The output level from Q4 is approx. 15 dBm.

The 1st mixer (Q13, Q14) uses two 2SK937s to produce high level mixing with a high intercept point.

#### **EXACT 1ST IF FREQUENCY**

MODE	FREQUENCY (MHz)
SSB	70.4515
CW	70.4506
AM. FM	70.4500

#### 4-1-5 1ST IF CIRCUIT (MAIN UNIT)

The 1st IF circuit filters and amplifies the 1st IF signals. The 1st IF signals from the 1st mixer circuit are applied to MCF (Monolithic Crystal Filter; FI1) to suppress out-of-band signals. The filtered signals are applied to the 1st IF amplifier (Q15). AGC is supplied to the 2nd gate of Q15.

#### 4-1-6 2ND MIXER CIRCUIT (MAIN UNIT)

The 2nd mixer circuit mixes the amplified 1st IF signals and 2nd local signal (61.44 MHz) to convert the 1st IF to a 2nd IF.

The amplified 1st IF signals from Q15 are converted to a 9 MHz 2nd IF signal at the 2nd mixer (IC1). IC1 is a DBM (Double Balanced Mixer). The DBM uses a coil with a glass-type core to treat the LO at a 0 dBm level.

The 2nd IF signals are applied to FI2 to suppress undesired signals such as the 2nd LO signal, and then are applied to the noise blanker gate (D5~D8).

#### **EXACT 2ND IF FREQUENCY**

MODE	FREQUENCY (MHz)
SSB	9.0115
CW	9.0106
AM. FM	9.0100

#### 4-1-7 NOISE BLANKER CIRCUIT (MAIN UNIT)

The noise blanker circuit detects pulse type noise, and turns OFF the signal line when noise appears.

The 2nd IF signals from FI2 are applied to the noise blanker gate (D5~D8). A portion of the signals from FI2 are amplified at the noise amplifiers (Q16, IC2), then detected at the noise detector (D12, D13). The detected signal from the noise detector is applied to the noise blanker switch (Q19).

A portion of the detected signal from the noise detector is applied to the noise AGC circuit (Q17, Q18, C60, R47) to control the bias voltage of the noise amplifier (IC2 pins 2, 3).

The threshold level of the noise blanker switch (Q19) is set at 0.9 V. When the detected voltage exceeds the threshold level, Q20 outputs a blanking signal to close the noise blanker gate (D5~D8), depending on the pulse noise period.

When the operating frequency is changed, the "DNB" signal line becomes "LOW," turning Q20 ON through D14. In this case, the noise blanker gate prevents PLL click noise.

#### 4-1-8 2ND IF CIRCUIT (MAIN UNIT)

The 2nd IF circuit amplifies and filters the 2nd IF signals.

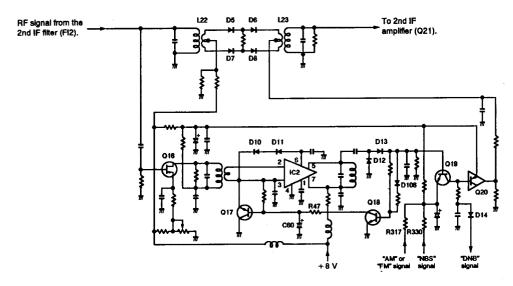
The signals through the noise gate (D5~D8) are amplified at Q21. The Loose tuning circuit (L24, C47) matches the signals to the 2nd IF filters.

When SSB or CW mode is selected, the signals pass through FI3 (FL-30). When an optional CW narrow filter is installed and CW-N mode is selected, signals pass through the CW narrow filter. When AM mode is selected, the signals bypass the 2nd IF filter. When FM mode is selected, the signals are applied to the optional UI-7 AM•FM UNIT.

The filters are selected with mode selecting signals (SSB•CW, AM, CW-N) and the "T8" voltage line.

Signals from a filter are applied to the 3rd mixer (IC7) through D63.

#### **NOISE BLANKER CIRCUIT**



# 4-1-9 3RD MIXER AND 3RD IF CIRCUITS (MAIN UNIT)

The 3rd mixer circuit mixes the filtered 2nd IF signals and the 3rd LO signal to convert the 2nd IF to a 3rd IF.

The 2nd IF signals from D63 are converted to a 455 kHz 3rd IF signal at the 3rd mixer (IC7). The 3rd IF signal is applied to FI4 (for AM mode) or FI5 (for SSB and CW mode). The filters are selected by the mode selecting signals. The filtered signal is amplified at Q27, Q28 and Q29 to obtain a detectable level.

A rapid time constant of AGC is used for Q27 to prevent rising edge distortion of receive signals. A thermistor (R140), connected to the gate of Q28, improves the temperature characteristics of the receiver gain. R138 adjusts the receiver gain. Q29 is a buffer amplifier and output signals from Q29 are shared between the SSB/CW detector, AM detector and AGC detector.

#### 4-1-10 BFO CIRCUIT (MAIN UNIT)

A 9 MHz signal oscillated at the BFO circuit (Q31, X1) is buffer-amplified at Q42 and applied to the balanced modulator (IC6) for transmission and to a product detector (IC5) after mixing with the 3rd LO signal at IC12 for receive demodulation.

In USB mode, the "USB" signal line becomes "HIGH," turning D69 ON. The frequency is then adjusted with C294 to set the USB carrier point.

During CW transmission, the "CW" signal line becomes "HIGH" turning D68 ON. The frequency is then adjusted with L83 to set the CW transmit carrier point.

In LSB mode, the "LSB" signal line becomes "HIGH," turning D67 ON. The frequency is then adjusted with L82 to set the LSB carrier point.

During CW reception, R8 voltage turns Q33 ON, then switching diodes (D67~D69) are turned OFF. The frequency is fixed by coils (L81~L83) and capacitors (C294, C230).

#### **BFO FREQUENCY IN EACH MODE**

MODE	FREQUENCY (MHz)
USB	9.0130
CW (Tx)	9.0106
LSB	9.0100
CW (Rx)	9.0098
AM	NO OUTPUT

#### 4-1-11 PBT CIRCUIT (MAIN UNIT)

The PBT circuit shifts the 3rd IF within  $\pm$  1.5 kHz. As a result, the 3rd IF is shifted from the center frequency of the 3rd IF filter (FI5). This means the 3rd IF signal does not pass through the center of the 3rd IF filter because the passband width is fixed in the 2nd IF filter. Therefore, the overlap of the 2nd and 3rd IF filters appears to be narrowed.

Since the BFO frequency is also shifted the same value as the 3rd IF shift, frequency is corrected at the detector.

The 3rd LO to IC7 is produced by Q57 and X2. X2 is shifted  $\pm$  1.5 kHz by D101 in SSB mode. Therefore, the 3rd LO is shifted to activate the PBT.

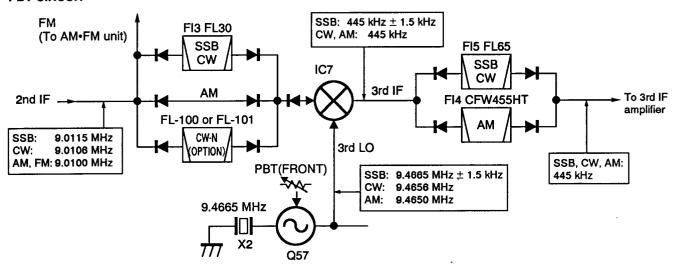
In AM mode, D101 variable voltage is replaced with a preset voltage by Q62 and 9.4650 MHz is output regardless of the [PBT] control location.

In CW mode, D101 variable voltage is replaced with a preset voltage by Q60 and 9.4656 MHz is output regardless of the [PBT] control location.

# 4-1-12 SSB/CW DEMODULATOR CIRCUITS (MAIN UNIT)

In SSB or CW mode, the 3rd IF signal from the IF amplifier (Q29) is mixed with the BFO signal from IC12 at the product detector (IC5) to demodulate the 3rd IF signal into an AF signal. The detected signal (AF) from IC5 (pin 3) is applied to the AF input mode selector switch (IC8).

#### **PBT CIRCUIT**



# 4-1-13 AM DEMODULATOR CIRCUITS (MAIN UNIT)

In AM mode, the 3rd IF signal from the IF amplifier (Q29) passes through C121 and is detected at D62. The detected signal (AF) is then applied to the AF input mode selector switch (IC8).

# 4-1-14 AF INPUT MODE SELECTOR SWITCH (MAIN UNIT)

The AF signal from a detector circuit or the optional AM•FM unit is applied to the AF input mode selector switch (IC8). IC8 consists of 4 analog switches which are selected with a mode signal and the squelch control signal. The AF signal is output from IC8 (pins 1, 4, 11) and then applied to the AF amplifier circuit.

#### 4-1-15 AGC CIRCUIT (MAIN UNIT)

The AGC (Automatic Gain Control) circuit reduces IF amplifier gain to keep the audio output at a constant level.

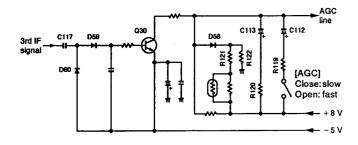
The receiver gain is determined by the voltage on the AGC line (Q30, collector). The voltage is usually set by the resistance ratio of R121 and R122.

The 3rd IF signal from the 3rd IF amplifier (Q29) is detected at the AGC detector (D59, D60) and is then applied to the DC amplifier (Q30). -5 V is applied to the Q30 emitter to activate the AGC line on the minus voltage.

When receiving strong signals, the detected voltage increases and the voltage of the AGC line decreases by the DC amplifier (Q30). As the AGC line is used for the bias voltage of the IF amplifiers (Q15, Q21, Q27), IF amplifiers gain are decreased.

When the strong signal disappears, the AGC line voltage is released by C113 and R120 while fast AGC is set. When slow AGC is set, C112 and R119 are connected in parallel to obtain a slow AGC release time.

#### AGC CIRCUIT



#### 4-1-16 S-METER CIRCUIT (MAIN UNIT)

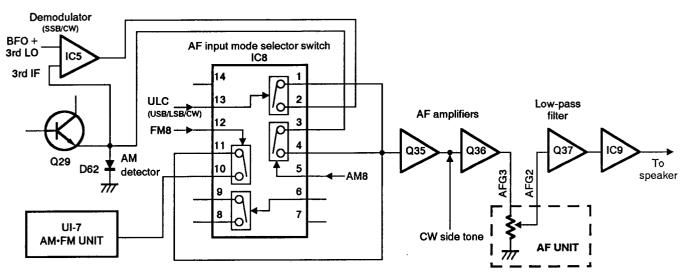
The S-meter circuit indicates the relative received signal strength while receiving by utilizing the AGC voltage which is changed depending on the received signal strength.

The AGC bias voltage (time constant line) is applied to a differential amplifier (IC4, pin 6) where the difference between the bias and reference voltages is detected.

The resulting S-meter signal passes through the meter switching circuit (IC8) and is then applied to the meter on the front panel. The reference voltage is adjusted with R116. IC8 (pins 8 and 9) are shorted inside the IC while receiving.

The FM S-meter signal from the optional AM•FM unit is applied to the meter switching circuit (IC8) via D57. The signal is also applied to the squelch circuit (IC4 pin 2).

#### **AF CIRCUIT**



#### 4-1-17 SQUELCH CIRCUIT (MAIN UNIT)

The squelch circuit mutes audio output when the S-meter signal is lower than the [SQL] control setting level.

The S-meter signal (SSB, CW, AM) from IC4 (pin 7) is applied to the comparator (IC4 pin 2) through D56 and R110 to be compared with the threshold level set by the [SQL] control.

In FM mode, the noise squelch is activated in an optional AM•FM unit. When the [SQUELCH] control is rotated clockwise beyond the preset point, the S-meter squelch is activated.

The S-meter signal from an optional AM•FM unit is applied to the comparator (IC4 pin 2) through D57. When the S-meter signal is lower than the threshold level, the comparator becomes "HIGH" and Q32 turns OFF to deactivate the AF input mode selector switch (IC 8 pins 5, 12, 13). This cuts AF output OFF. This signal is then applied to Q34, turning OFF the [RX] indicator, and is also applied to the [MIC] connector (pin 4).

#### 4-1-18 AF AMPLIFIER CIRCUIT (MAIN UNIT)

The AF amplifier amplifies the AF input signal to a suitable driving level for the speaker.

The AF signal from the AF input mode selector switch (IC8 pins 1, 4, 11) is applied to the AF preamplifier (Q35, Q36). The CW side tone signal is applied to Q36.

The amplified signal is applied to the [AF] control (R1 on the AF unit) and then to the 2.8 kHz cut-off active low-pass filter (Q37). The AF signal output from Q37 is power-amplified at IC9 to drive the speaker.

#### 4-2 TRANSMITTER CIRCUITS

# 4-2-1 MIC AMPLIFIER CIRCUIT (FRONT, VR AND MAIN UNITS)

The mic amplifier circuit amplifies the microphone input signals and outputs the amplified signal to the balanced modulator and an optional AM•FM unit. The speech compressor circuit is included in this circuit.

Audio signals from the [MIC] connector are amplified at Q7 (FRONT unit) and then Q2 (VR unit). The amplified signals are then applied to the [MIC] control and amplified again at Q1 (VR unit). External modulation input from the [ACC(1)] socket (pin 4) is also applied to Q1 via R5 (VR unit). The microphone bias voltage is supplied from this circuit.

When the speech compressor is ON, the gain of Q2 increases and the diode limiter (VR unit D1, D2) is activated. The compression level is set by R1 (FRONT unit).

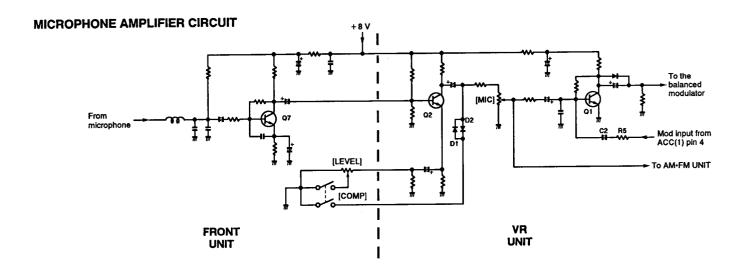
#### 4-2-2 BALANCED MODULATOR (MAIN UNIT)

The balanced modulator converts the AF signal from the microphone amplifier to a 9 MHz IF signal with a BFO signal.

Output signals from the mic amplifier and the CW keying signal are applied to the balanced modulator (IC6). The BFO signal, buffer-amplified at Q42, is applied to IC6 (pin 7) as a carrier signal.

IC6 is a double balanced mixer IC and outputs a double side band (DSB) signal with - 40 dB carrier suppression.

R177 and R179 adjust the balanced level of IC6 for maximum carrier suppression. In CW mode, the CW keying signal upsets the balance to create a carrier signal.



#### 4-2-3 CW KEYING CIRCUIT (MAIN UNIT)

The CW keyer is connected to Q38. When the CW key is closed, 8 V is output from Q38 and this voltage controls break-in operation, the sidetone signal and the transmit signal.

The 8 V from Q38 is applied to the balanced modulator (IC6) to unbalance the IC6 input bias voltage and create a carrier signal. R241 determines the transmit delay timing.

#### (1) BREAK-IN

When the [BK IN] switch (S2 in the MAIN unit) is pushed IN, the IC-728 is automatically set to the transmission condition by CW keying. The 8 V from Q38 is applied to Q52 base via Q26. When the key is closed, Q52 grounds the SEND line via D112 for transmitting.

The transmit release delay time is determined by C252, R245 and the [DELAY] control (R244).

#### (2) SIDE TONE

When the CW key is closed, the side tone circuit oscillates and sends the signal to the AF circuit.

Normally, D91 is ON, and C249 is connected to the Q40 collector so that no oscillation occurs. When the CW key is closed, the 8 V from Q38 via D92 give D91 reverse bias to disconnect C249 from Q40. Q40 then oscillates with 800 Hz as a side tone signal. R268 prevents sidetone click noise.

#### (3) KEYING

Keying is controlled at 2 points in the IC-728. The balanced mixer (IC6) stops the carrier output by recovering the balance of the input bias voltage. D35 located at the 2nd IF mixer (IC1) input, cuts the signal line.

R240 and R241 determine the voltage wave form to IC6 (pin 5) to make the keying wave form.

#### 4-2-4 IF AMPLIFIER (MAIN UNIT)

The SSB/CW 9 MHz IF signal passes through the FI3 (FL-30) to suppress the unwanted sideband signal, then the signal is applied to a transmit IF amplifier (Q22). The optional CW narrow filter is not used in transmitting.

The amplified signal from Q22 is mixed with the 2nd LO signal and converted to a 70.45 MHz IF signal at IC1. IC1 is used in receiving and transmitting. The FM signal from the optional AM•FM unit is also amplified at Q22 and is then applied to IC1.

The 70.45 MHz IF signal is amplified at the IF amplifier (Q7) and is then converted to the displayed frequency at the balanced mixer (Q2, Q3) with the 1st LO signal.

The gates of the IF amplifiers (Q7, Q22) are controlled by ALC bias voltage from the ALC circuit. A thermistor (R89), connected to the gate of Q22, improves the temperature characteristics of the transmitter gain. R85 adjusts the transmitter total gain.

#### 4-2-5 RF CIRCUIT (MAIN AND PA UNITS)

The displayed frequency signal converted at the balanced mixer (Q2, Q3 in MAIN unit) is applied to the bandpass filter (L2, L3, C4~C7, C336) where unwanted LO signal emission is reduced. The filtered signal is amplified at Q1, and is then applied to the PA unit via the attenuator.

The signals from the MAIN unit are amplified at the predrive amplifier (Q1), drive amplifier (Q2, Q3) and power amplifier (Q5, Q6) in the PA unit to obtain a stable 100 W of RF output power.

The predrive amplifier is a class A amplifier with a Vcc of 13.8 V. The drive amplifier is a class AB push-pull amplifier with a Vcc of 13.8 V. D1 controls bias voltage to the drive amplifier.

The signal from the drive amplifier is made impedance conversion at L4, then the signal is applied to the power amplifier (Q5, Q6). The power amplifier is a class AB push-pull amplifier and amplifies the input signal to 100 W. D2 and D3 control bias voltage to the power amplifier. The signal from the power amplifier is applied to one of the low-pass filters.

#### 4-2-6 RF FILTER CIRCUIT (PA UNIT)

The RF filter circuit consists of 6 Chebyschev low-pass filters to suppress the higher harmonic components. The signal from the power amplifier (Q5, Q6) is applied to one of the low-pass filters (depending on its frequency). The filter switching voltage from the PLL unit is applied to the PA unit via P2 (PLL unit: J7).

The filtered signal passes through the SWR detector circuit (L27) and is then applied to the antenna connector via RL13.

#### 4-2-7 RF METER CIRCUIT (MAIN UNIT)

The "FOR" voltage from the PA unit is applied to the Po meter amplifier (IC10 pin 3). The amplified voltage is output from IC10 (pin 1) and then applied to the meter. R186 adjusts the meter sensitivity and R189 and C261 are used for RF meter peak power hold.

#### 4-2-8 ALC CIRCUIT (MAIN UNIT)

The ALC (Auto Level Control) circuit controls the gain of IF amplifiers in order for the IC-728 to output a constant RF power set by the [RF PWR] control even when the supplied voltage shifts, etc.

The RF power signal level is detected at D1 (PA unit) and applied to the MAIN unit as the "FOR" voltage.

The "FOR" voltage from the PA unit is applied to IC11 (pin 2) in the MAIN unit. The "POC" voltage, set by the [RF PWR] control (R2 on the FRONT unit), is applied to IC11 (pin 3) as the reference voltage.

When the "FOR" voltage exceeds the "POC" voltage, ALC bias voltage from IC11 (pin 1) controls the IF amplifiers (Q7, Q22) to adjust the output power to the determined level by the [RF PWR] control until the "FOR" and "POC" voltages are equalized.

In AM mode, IC11 operates as an averaging ALC amplifier (a capacitor on the optional AM•FM unit (C51) is connected to the cathode of D76). Q54 turns ON and the "POC" voltage is shifted for 40 W AM output power (maximum) through R207.

The ALC bias voltage from IC11 (pin 1) is also applied to the inversion-amplifier (IC11 pin 6) to control the intensity of the [TX] indicator via D77 and R202, indicating the ALC level.

An external ALC input from the [ALC] jack is applied to the buffer amplifier (Q53). External ALC operation is identical to that of the internal ALC.

#### 4-2-9 APC CIRCUIT (MAIN UNIT)

The APC (Automatic power control) circuit protects the power amplifiers on the PA unit from high SWR and excessive current.

The reflected wave signal appears and increases on the antenna connector when the antenna is mismatched. D2 of the SWR detector circuit (L27, D1, D2) in the PA unit detects the signal and applies it to Q56 in the MAIN unit as the "REF" signal.

When the "REF" signal level increases, Q56 decreases the POC line voltage via R205. The POC line voltage is applied to IC11 to activate the ALC.

For the IC APC, the power transistor current is obtained by detecting the voltages ("ICH" and "ICL") which appear at both terminals of a 0.012  $\Omega$  resistor (R26 on the PA unit). The detected voltage is applied to the differential amplifier (IC10 pins 5, 6). When the current of the final transistors is more than 22 A, the detected voltage is applied to the ALC line via D73 to prevent excessive current flow.

Q55 is used for power reduction to prevent excessive current flow when transmitting on the 28 MHz by the ALC line.

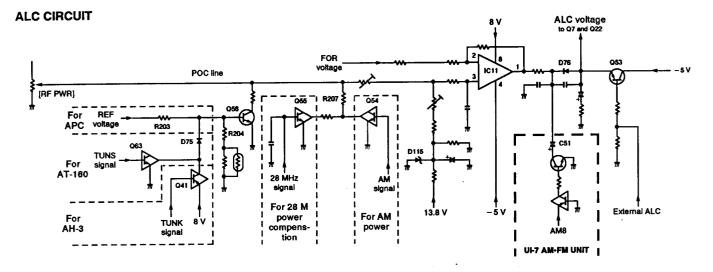
During tuning, with the optional AH-3 AUTOMATIC ANTENNA TUNER, the "TUNK" signal turns Q41 ON. As a result, Q56 is turned ON and the "POC" voltage is shifted for 12 W output power. When the AT-160 is selected by the tuner selection switch on the rear panel, Q63 turns ON by "TUNS" signal, therefore, 8 V is not applied to Q56 and tuning is performed at 100 W.

# 4-2-10 TEMPERATURE PROTECTION CIRCUIT (PA UNIT)

A cooling fan (MF1) is activated while transmitting or if the temperature of Q5 or Q6 exceeds the preset value.

A thermal switch (S1) is thermally-connected to Q6. When the Q6 temperature exceeds 90°C, S1 is turned ON and provides a voltage to MF1 via R28.

Thermistor R32 detects the temperature of Q5. If the Q5 temperature is more than 50°C, when the transceiver condition has changed from transmitting to receiving, R32 rotates the cooling fan.



#### 4-3 PLL CIRCUITS

#### 4-3-1 GENERAL DESCRIPTION

The PLL unit generates a 1st LO signal (70.4800~100.4530 MHz variable) and a 2nd LO signal (61.44 MHz fixed is used for the MAIN unit). The IC-728 uses a dual loop PLL system.

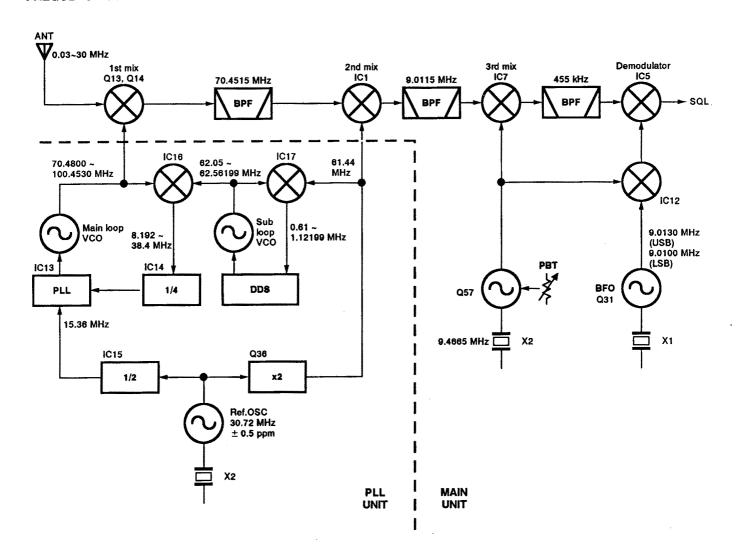
The main loop PLL contains 4 VCO circuits for all HF band coverage within 512 kHz steps. The sub loop PLL employs the DDS (Direct Digital Synthesizer) system which ensures a rapid lockup time and high quality frequency oscillation for 512 kHz coverage within 10 Hz steps.

# 4-3-2 1ST LO PLL CIRCUIT (PLL AND DDS UNITS)

The 1st LO circuit employs a dual loop PLL system. One of four VCO oscillation signals (main loop) is mixed with the signals from the sub loop PLL at IC16 and the resulting signal is divided by 4 at IC14 and then applied to the PLL IC (IC13). The signal is then divided by a programmable divider and compared with the reference frequency in IC13. The phase detected signal is converted to the lock voltage at the active loop filter (Q12~Q14) and is then fed back to a VCO circuit to control the oscillation frequency.

In the sub loop PLL, the programmable dividing and phase detection are performed by digital processing in the DDS unit. The sub loop, therefore, ensures that a high speed and a high quality signal can be generated. On the other hand, the main loop PLL generates 512 kHz steps — this means high speed PLL can be accomplished — and 10 Hz steps are processed by the DDS. The quality of the dual loop PLL circuit is determined by the sub loop PLL.

#### **FREQUENCY CONSTRUCTION**



#### 4-3-3 MAIN LOOP CIRCUIT (PLL UNIT)

One of four VCO circuits is switched by the VCO switching signal ("VCO1"~"VCO4"). The oscillated signal is buffer-amplified at Q23 and Q46 and then applied to the mixer (IC16 pin 7). The sub loop PLL output signal is also applied to the mixer (IC16 pin 5). The mixed signals are amplified at Q27 and then applied to the low-pass filter (L23~L25, C92, C99~C103). The filtered signal is amplified at Q26 and then divided by 4 at IC14. Then the signal is applied to the PLL IC (IC13).

The signal is divided at the programmable divider section in IC13 and is then phase detected at the phase comparator section with the reference frequency (described later). The phase detected signal is output from pin 17 and is then converted to a DC voltage (lock voltage) by the active loop filter (Q12~Q14). The lock voltage is applied to the varactor diodes (D48, D50, D52, D54) in the VCO circuits to change the capacitance of these diodes and control the oscillation frequency.

The VCO oscillating signal is then buffer-amplified at the buffer amplifiers (Q23, Q24) and is then applied to the MAIN unit as a 1st LO signal.

# 4-3-4 SUB LOOP CIRCUIT (PLL AND DDS UNITS)

The oscillated signal at the sub loop VCO (Q29, 62.05~62.56199 MHz) is amplified at the buffer amplifier (Q30) and is then applied to the mixer (IC17 pin 5). The 61.44 MHz signal is also applied to this mixer (IC17 pin 7).

The mixed signal (0.61~1.12199 MHz) passes through the low-pass filter (L32, C126) and is amplified at Q32. The signal is then applied to the DDS unit.

The DDS unit outputs pulse-type signals. The signals are applied to the loop filter (R133, R134, C114, C115) to be converted to a DC voltage (lock voltage). The lock voltage is applied to the varactor diodes (D56) to change the capacitance of this diode and control the sub loop VCO oscillation frequency.

# 4-3-5 REFERENCE OSCILLATOR CIRCUIT (PLL UNIT)

The reference oscillator circuit consists of Q33 and X2. A 30.72 MHz reference frequency is oscillated to produce a 2nd LO signal and a PLL reference frequency. The reference frequency is buffer-amplified at Q34 and is then divided by 2 at IC15 to obtain the PLL reference frequency for the PLL IC (IC13).

The 30.72 MHz reference frequency is multiplied by 2 at Q36 to obtain the 2nd LO signal. The resulting 61.44 MHz signal is filtered at the bandpass filter and is then applied to a sub loop mixer (IC17) and to the MAIN unit via P4 as the 2nd LO signal.

#### 4-4 LOGIC CIRCUITS

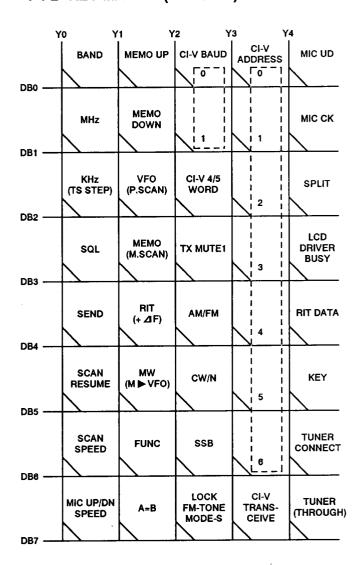
#### 4-4-1 BAND SELECTION DATA (PLL UNIT)

To select the correct bandpass filter, the low-pass filter and VCOs on the MAIN and PLL units, the CPU outputs the following band selection data depending on the displayed frequency.

#### **BAND SELECTION DATA**

FREQUENCY (MHz)	BPF	BAND VOLTAGE	LPF	vco
0.5~1.59999	B0	7.4 V	L1	
1.6~1.99999	B1	7.4 V		VCO1
2.0~3.99999	B2	6.4 V	L2	*CO1
4.0~7.99999	В3	5.4 V	L3	
8.0~10.99999	B4	0.0 V	L4	VCO2
11.0~14.99999	B5	4.4 V	L4	VCO2
15.0~21.99999	B6	3.4 V	L5	VCO3
22.0~30.0	B7	2.4 V	L6	VCO4

#### 4-4-2 KEY MATRIX (PLL UNIT)



#### 4-4-3 CPU (PLL UNIT)

The CPU (IC6) contains an 8-bit CMOS CPU, a 16k-byte ROM and a 256-byte RAM. The CPU controls the operating frequency, mode, function display etc. The memory contents are stored in the CPU using a lithium backup battery which has a normal life of more than 5 years.

#### **CPU PORT ALLOCATIONS**

PORT NAME	PIN NUMBER	DESCRIPTION
EXTAL	3	Input port for the CPU clock.
RES	6	Input port for CPU standby/op-
STBY	7	erating mode switching.
NAR	9	Outputs a control signal for CW narrow mode.
START	10	Outputs a control signal for the connected antenna tuner.
RESET	11	Outputs a control signal for resetting a main dial counter.
P23	12	Input port for CI-V data.
P24	13	Output port for CI-V data.
ATS	14	Input port for the auto tuning step.
<u>Q</u> , Q	15, 16	Input port for the dial up/down.
CLK, Q1~Q5	17~22	Input port for the dial counter data.
A, B, C	25~27	Outputs a band changing signal. IC19 provides each band signal.
CS1	34	Outputs a control signal for reading the RIT data.
DSTB	35	Outputs a strobe signal for DDS.
PSTB	36	Outputs a strobe signal for the main loop PLL.
PCK	37	Outputs a clock signal.
CD, CS, SCK	38~40	Outputs a command/clock signal for the display driver.

#### 4-4-4 RIT CONTROL (PLL UNIT)

The [RIT] control shifts a voltage to shift the receive frequency. The voltage is applied to IC12 (pin 4). IC12 is an A/D converter which outputs 8-bit serial data regarding analog input voltage. The resulting serial data is applied to the CPU matrix  $Y4 \rightarrow DB4$ .

# 4-4-5 PARALLEL/SERIAL CONVERTER (PLL UNIT)

IC11 is a parallel/serial converter IC. Parallel data from the CPU is converted into serial data to transfer the PLL N-data, DDS N-data, data for the LCD driver, etc. When the power is turned ON, the CPU also outputs programmable divider data and a control signal for universal ports to the PLL IC (IC13).

#### 4-5 REGULATOR CIRCUITS

Either + 8 V, + 5 V or - 5 V DC is supplied from a corresponding regulator circuit. + 8 V, + 5 V and - 5 V DC are regulated at the following circuits using 13.8 V DC.

#### (1) +5 V REGULATOR (PLL UNIT)

+5 V DC is provided by the three-terminal voltage regulator (IC10).

#### (2) +8 V REGULATOR (MAIN UNIT)

+ 8 V DC is provided by the three-terminal voltage regulator (IC14).

#### (3) - 5 V REGULATOR (PLL UNIT)

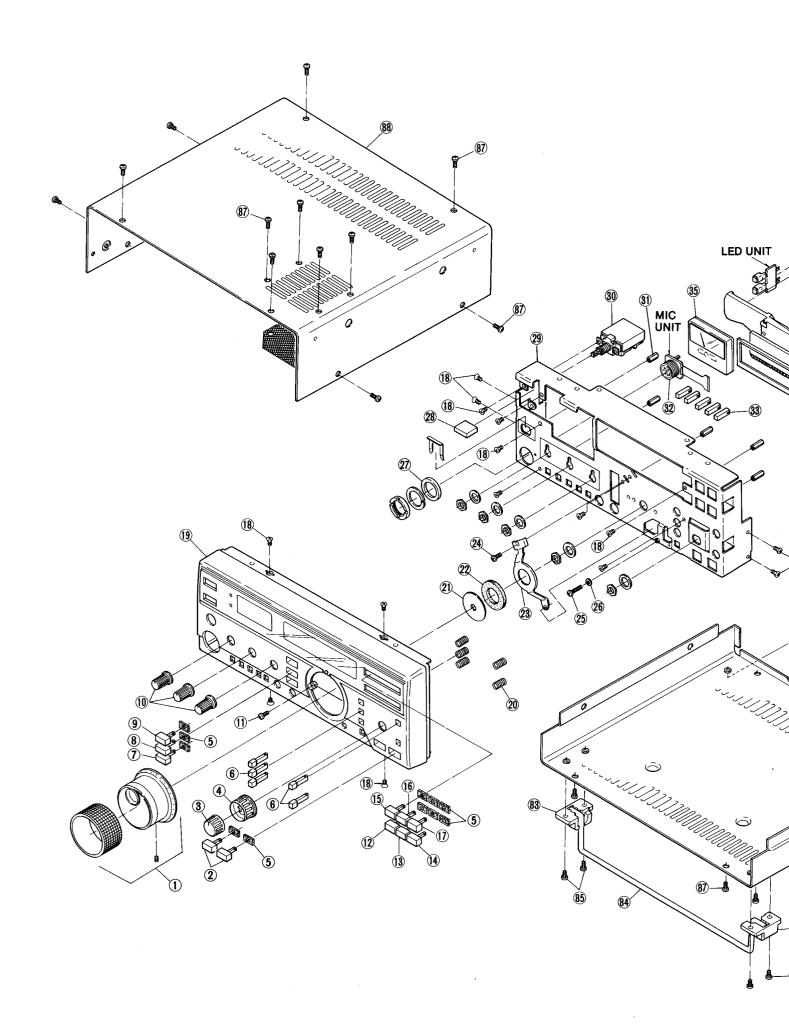
IC6 generates a negative pulse-type voltage by converting the DC input to AC voltages (approx. 6.7 kHz) as a multi-vibrator. The voltage is rectified at D8 and D9, regulated by a zener diode (D10) and C13, and is then applied to the MAIN unit.

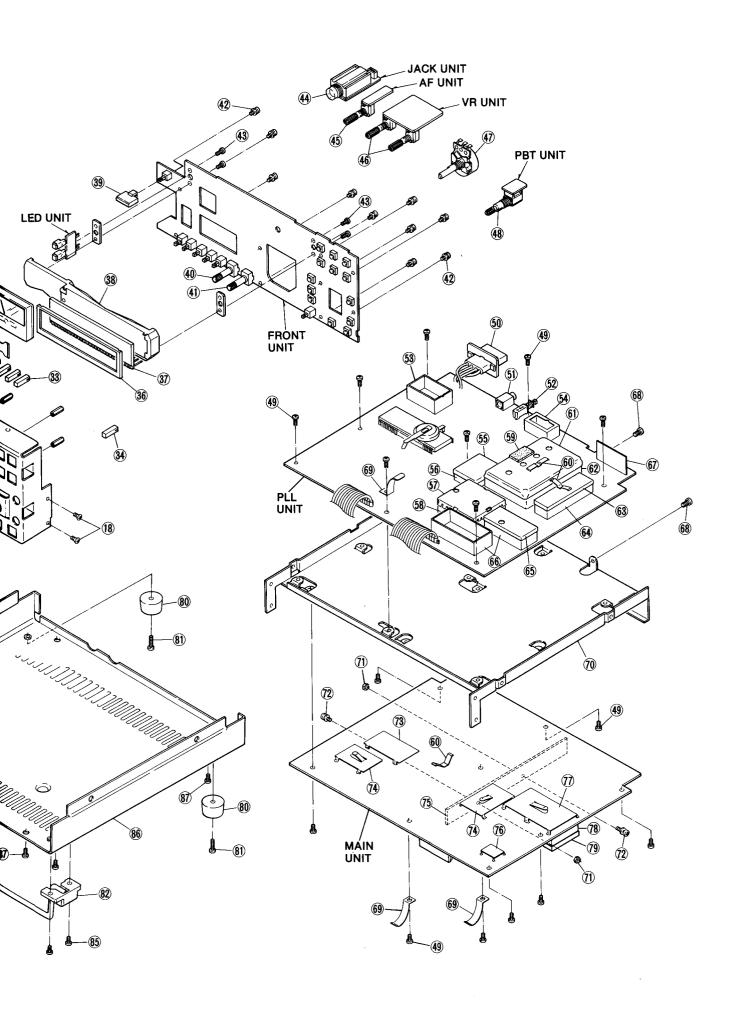
# SECTION 5 MECHANICAL PARTS AND DISASSEMBLY

# **5-1 CHASSIS PARTS**

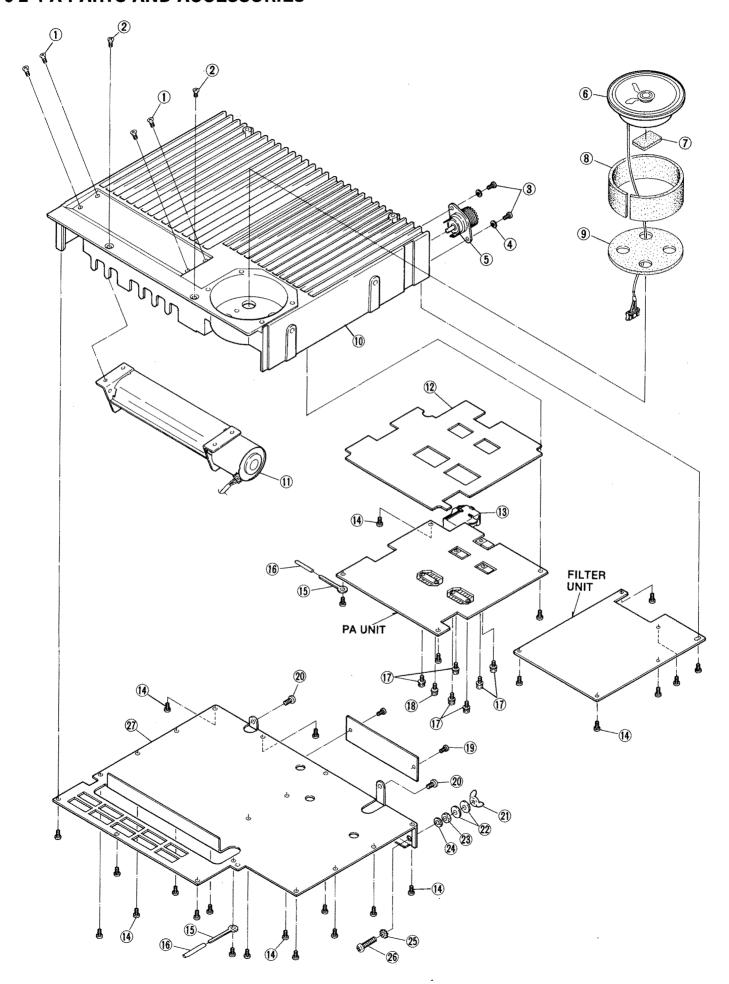
LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.	LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
	9010004760	Knob N104 (A) [MAIN DIAL]	1	43	8810001320	Screw PH B1 M2.6×6 NI	4
0	8610004760	(incl. rubber ring and screw)		(4)	6450000810	Connector HLJ4306-01-3070	1
2	8610007890	Button K119 (H) [UP, DOWN]	2	•	0430000810	[PHONES]	<u> </u>
3	8610007400	Knob N171 [RIT]	1	<b>45</b> )	7210001820	Variable resistor RV-169	1
<b>④</b>	8610000530	Knob N72 [PBT]	1		7210001020	(RK0971110) 10KA [AF GAIN]	<u> </u>
<u>(5)</u>	8930014000	610 mode sponge	11	46	7210001780	Variable resistor RV-166 (RK097111)	2
6	8610007750	Button K185	5		7210001700	10KB [SQUELCH, AF GAIN]	
•	8010007730	[kHz, MHz, BAND, etc.]	Ľ	47	7600000100	Rotary encoder EC24B50B0013A	1
7	8610007880	Button K119 (Q) [AM/FM]	1	•	7000000100	[MAIN DIAL]	<u>L</u> .
8	8610007870	Button K119 (P) [CW/N]	1	48	7210002180	Variable resistor RV-273	1
9	8610007860	Button K119 (O) [SSB]	1	•	7210002100	(RK1242210) 10KB [PBT]	
10	8610004150	Knob N120	3	49	8810001350	Screw PH B1 M3×6	16
10	8610004130	[AF GAIN, SQUELCH, MIC GAIN]		50	6510001920	Connector 1490R [TUNER]	1
11)	8810003160	Setscrew A M3×6	1	<b>5</b> 1)	6450000140	Connector HSJ0807-01-010 [CI-V]	1
12	8610007830	Button K119 (L) [MEMO]	1	(E)	2230000700	Switch SPPJ31309A	1
13	8610007840	Button K119 (M) [MW]	1	52	2230000700	[TUNER SELECTION]	<u> </u>
14)	8610007850	Button K119 (N) [FUNC]	1	53	8510002200	VCC shield case	1
(15)	8610007800	Button K119 (I) [VFO]	1	54	8510000881	194 VCO shield case-1	1
16	8610007810	Button K119 (J) [A=B]	1	55	8510004360	PA shield case (B) cover (A)	1
17	8610007820	Button K119 (K) [SPLIT]	1	56	8510002690	PA shield case (B)	1
(18)	8810002160	Screw FH M3×5	15	(57)	8510005320	DDS shield case cover	1
<u>(19)</u>	8210007361	1113 front panel (A)-1	1	(58)	8510005310	DDS shield case	1
20	8930017960	Spring	5	59	8930008060	Sponge (AO)	1
<u>21)</u>	8930013940	610 brake sheet	1	60	8930014140	Ground spring (D)	4
22	8930014030	610 brake pad	1	61)	8510001340	79 shield cover	1
23	8930013990	610 brake plate	1	62)	8510001330	79 shield case	1
<u>3</u>	8810000220	Screw PH M3×5	1	63	8510001740	Shield case cover	1
25	8810006150	Screw PH M2.6 × 12 ZK	1	64)	8510001060	Shield case	1
26	8850001040	Insulate flat washer (I)	1	65	8510000241	220 shield case cover 1	1
27	8930003200	Spacer (P)	1	66	8510000230	220 shield case	2
28	8610007900	Button K42 (A) [POWER]	1	67)	8510000500	PA shield plate B	1
29	8010012160	Sub chassis	1	68)	8810003670	Icom screw A 6	2
		Switch JPZ2120-0101 (TV-3)		69	8930017190	Ground spring (F)	3
30	2260001580	[POWER]	1	70	8010007851	610 chassis 1	1
31)	8930000720	Thread spacer (V)	5	$\overline{0}$	8830000100	Nut M3	1
		Connector FM214-8SS (P)	1	72	8810003170	Setscrew A M3×8	2
32	6510000190	[MICROPHONE]	1	73	8510004640	220 shield plate (C)	1
		Button K66 (A)	<b> </b>	73	8510005521	VCO shield plate (A)-1	2
33	8610002540	[NB, ATT, PREAMP, etc.]	5	73	8410000770	AF heatsink-1	1
34)	8610007910	Button K66 (B) [LOCK]	1 1	76	8510002280	VCO shield plate (A)	1
		Meter KL-218U-46 (ME-31)	1	$\overline{w}$	8510007260	RF shield plate	1
35)	5510000380	[S/RF METER]	1 1	18	8510001080	Shield case (A)	1
36	8930023730	LCD rubber	1	79	8510001101	Shield case (A) cover (A)-1	1
	2300023.00	LCD HLC9599-01-3210	<del>                                     </del>	80	8930002900	Rubber foot (A) SK1912A	2
37	5030000380	[FUNCTION DISPLAY]	1	81)	8810005540	Screw PH B1 M4×10	2
38	8010005530	504 reflector	1	82	8930005790	Collar foot (A)	1
39	8610003850	Button K98 [TRANSMIT]	1	83	8930005890	Collar foot (B)	1
	23.000000	Variable resistor EVU-FLAEC2 C13		84	8010001520	Stand (C)	1
40	7210002240	[LEVEL]	1	85)	8810005520	Screw PH B1 M3×8 ZK	4
-		Variable resistor EVU-FLAEC2 B14		86	8110003280	Bottom cover (incl. 169~169)	1
41)	7210002230	[RF POWER]	1 1	87	8810005510	Screw FH M3×6 BS	16
<b>(12)</b>	8810003160	Setscrew A M3×6	10.	88	8110003270	Top cover	1

Screw abbreviations PH: Pan head FH: Flat head B1: Self-tapping screw BS: Brass NI: Nickel ZK: Black





# **5-2 PA PARTS AND ACCESSORIES**



#### • PA PARTS

LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
1	8810000230	Screw PH M3×6	4
2	8810002160	Screw FH M3×5	2
3	8810001910	Screw PH M3×6 NI BS	2
4	8850000420	Spring washer M3 NI	2
. (5)	6510004880	Connector MR-DS-E 01 [ANT]	1
6	2510000040	Speaker C065K12I0810	1
<b>①</b>	8930006610	Sponge (AH)	1
8	8930007831	401 Sponge (C)-1	1
9	8930007821	401 Sponge (B)-1	1
10	8410000782	401 heatsink-2	1
10	2710000160	Fan motor HMK2605-01-100	1
12	8930007620	PA insulate plate	1
(13)	6510003780	Connector LLR-06 [DC13.8 V]	1
<b>(3</b> )	8810001350	Screw PH B1 M3×6	23
(15)	6910000690	Clip 59TC4772	2
16	9034003901	Tube 2 φ L=30 mm	2
17	8810003170	Setscrew A M3×8	6
18	8810003210	Setscrew A M3 × 15	1
(19)	8810005530	Screw PH ST M2.6×6 NI	2
20	8810003670	Icom screw A 6	2
21)	8830000360	Wing nut M5 NI	1
22	8850000150	Flat washer M5 NI BS	2
23	8830000210	Nut M5 NI BS	1
24	8850000440	Spring washer M5 NI	1
25)	8850000590	Star washer M5	1
26	8810001980	Screw PH M5×16 NI BS	1
27	8510006203	795 PA cover-3	1

**Screw abbreviations** 

BS: Brass

PH: Pan head FH: Flat head

B1, ST: Self-tapping screw

NI: Nickel

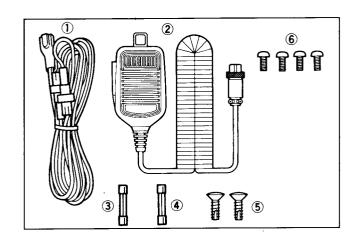
#### • ACCESSORIES

_			
LABEL NUMBER	ORDER NO.	DESCRIPTION	QTY.
①	Optional product	DC power cable OPC-025A	1
2	Optional product	Hand microphone HM-12	1
3	5210000080	Spare fuse FGB 20A	1
4	5210000130	Spare fuse FGB 4A	1
5	8810005500	Screw OH B1 M4×12 CR	2
6	8810001650	Screw PH ST M3×6	4

Screw abbreviations

PH: Pan head

OH: Oval countersunk head B1, ST: Self-tapping screw



# SECTION 6 PARTS LIST

# [AF UNIT]

REF. NO.	ORDER NO.	DESCRIPTION		
R1	7210001820	VARIABLE	RV-169 (RK0971110) 10KA [AF GAIN]	
J1	6510003510	CONNECTOR	S03B-EH-S	
EP1	0910033902	PCB	B 3419B (AF)	
		***************************************		

# [VR UNIT]

REF.	ORDER NO.	DESCRIPTION		
Q1	1530000110	TRANSISTOR	2SC2458-GR	
Q2	1530000591	TRANSISTOR	2SC2785 EL	
D1	1710000580	DIODE	1SS265	
D2	1710000580	DIODE	1SS265	
D3	1710000160	DIODE	1SS133	
R1	7210001780	VARIABLE	RV-166 (RK097111) 10KB [SQUELCH]	
R2	7210001780	VARIABLE	RV-166 (RK097111) 10KB [MIC GAIN]	
R3	7010003580	RESISTOR	ELR20J 22 kΩ	
R4	7010003550	RESISTOR	ELR20J 15 kΩ	
R5	7010003530	RESISTOR	ELR20J 10 kΩ	
R6	7010003240	RESISTOR	ELR20J 47 Ω	
R7	7010004270	RESISTOR	R20J 4.7 kΩ	
R8	7010003660	RESISTOR	ELR20J 100 kΩ	
R9	7010003660	RESISTOR	ELR20J 100 kΩ	
R10	7010003580	RESISTOR	ELR20J 22 kΩ	
R11	7010003530	RESISTOR	ELR20J 10 kΩ	
R12	7010003420	RESISTOR	ELR20J 1.5 kΩ	
R13 R14	7010003400	RESISTOR	ELR20J 1 kΩ ELR20J 470 Ω	
RIA	7010003360	RESISTOR	ELM20J 470 12	
C1	4510003800	ELECTROLYTIC	25 MV 4R7 SW	
C2	4510004910	ELECTROLYTIC	16 MV 10 SWNP	
C3	4510003840	ELECTROLYTIC	50 MV 1 SW	
C4	4510005000	ELECTROLYTIC	16 MV 220 HC	
C5	4010000520	CERAMIC	DD108 B 472K 50V	
C6	4510003800	ELECTROLYTIC		
C7	4510003800	ELECTROLYTIC	25 MV 4R7 SW	
J1	6510003460	CONNECTOR	B10B-EH-S	
W1	6910001030	JUMPER	IPS-1041-4	
W2	6910001030	JUMPER	IPS-1041-4	
W3	6910001020	JUMPER	IPS-1041-2	
W4	6910001020	JUMPER	IPS-1041-2	
EP1	0910033832	PCB	B 3274B (VR)	

# [JACK UNIT]

REF. NO.	ORĐER NO.	DESCRIPTION		
L1	6180000900	COIL	LAL 03NA 101K	
R1 R2	7010003280 7010003280	RESISTOR RESISTOR	ELR20J 100 Ω ELR20J 100 Ω	
C1	4020000250	CYLINDER	UP125 X 472M	
J1 J2	6510003390 6450000810	CONNECTOR CONNECTOR		
EP1	0910033882	PCB	B 3417B (JACK)	

# [FRONT PART]

REF. NO.	ORDER NO.	DESCRIPTION		
S1	7600000100	ENCODER	EC24B50B0013A [MAIN DIAL]	
EP1	6450001230	M. OTHER	HLJ0999-01-480	

# [FRONT UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
IC1	1130000790	S. IC	μPD7225G00
	, '		
Q1	1520000230	TRANSISTOR	2SB909M Q
Q2	1530000110	TRANSISTOR	2SC2458-GR
Q3	1530000110	TRANSISTOR	2SC2458-GR
Q4	1530000110	TRANSISTOR	2SC2458-GR
Q5	1590000350	TRANSISTOR	RN1204
Q6	1530000110	TRANSISTOR	2SC2458-GR
Q7	1530000940	TRANSISTOR	2SC1571G
D1	1730000180	ZENER	RD8.2E B2
D2	1710000160	DIODE	1SS133 (#03)
D2	1710000611	DIODE	1SS133 T77 (26M/M) (#02)
D3	1710000160	DIODE	188133 (#03)
D3	1710000611	DIODE	1SS133 T77 (26M/M) (#02)
D4	1710000611	DIODE	1SS133 T77 (26M/M)
D5	1710000611	DIODE	1SS133 T77 (26M/M)
D6	1710000160	DIODE	1SS133
D7	1710000611	DIODE	1SS133 T77 (26M/M)
D8	1710000611	DIODE	1SS133 T77 (26M/M)
D9	1710000611	DIODE	1SS133 T77 (26M/M)
D10	1710000611	DIODE	1SS133 T77 (26M/M)
D11	1710000611	DIODE	1SS133 T77 (26M/M)
D12	1710000611	DIODE	1SS133 T77 (26M/M)
D13	1710000611	DIODE	1SS133 T77 (26M/M)
D14	1710000611	DIODE	1SS133 T77 (26M/M)
D15	1710000611	DIODE	1SS133 T77 (26M/M)

# [FRONT UNIT]

# [FRONT UNIT]

REF. NO.	ORDER NO.	DESCRIPTION		
D16	1710000611	DIODE	1SS133 T77 (26M/M)	
D17	1710000611	DIODE	1SS133 T77 (26M/M)	
D18	1710000611	DIODE	1SS133 T77 (26M/M)	
D19	1710000611	DIODE	1SS133 T77 (26M/M)	
D20	1710000611	DIODE	1SS133 T77 (26M/M)	
L1	6180000900 6180000900	COIL	LAL 03NA 101K LAL 03NA 101K	
L2 L4	6180000900	COIL	LAL 03NA 101K	
L5	6180000900	COIL	LAL 03NA 101K	
L6	6180000900	COIL	LAL 03NA 101K	
L7	6180000900	COIL	LAL 03NA 101K	
L8	6180000900	COIL	LAL 03NA 101K	
R1	7210002240	TRIMMER	EVU-FLAEC2 C13 [LEVEL]	
R2	7210002230	TRIMMER	EVU-FLAEC2 B14 [RF PWR]	
R7	7010004720	RESISTOR	R50XJ 100 Ω	
R8	7010004720	RESISTOR RESISTOR	R50XJ 100 Ω ELR20J 1 kΩ	
R9	7010003400 7010003520	RESISTOR	ELR20J 1 KΩ	
R11	7010003320	RESISTOR	ELR20J 4.7 kΩ	
R12	7010003400	RESISTOR	ELR20J 1 kΩ	
R13	7010004251	RESISTOR	R20 T-24J 3.3 kΩ	
R14	7010004321	RESISTOR	R20 T-24J 10 kΩ	
R15	7010004321	RESISTOR	R20 T-24J 10 kΩ R20 T-24J 180 kΩ	
R16 R17	7010004481 7010004410	RESISTOR RESISTOR	R20 1-243 160 kΩ	
R18	7010004310	RESISTOR	R20 T-24J 10 kΩ	
R19	7010004321	RESISTOR	R20 T-24J 10 kΩ	
R20	7010004170	RESISTOR	R20J 680 Ω	
R21	7010003530	RESISTOR	ELR20J 10 kΩ	
R22	7010004321	RESISTOR	R20 T-24J 10 kΩ R20 T-24J 10 kΩ	
R24 R25	7010004321	RESISTOR RESISTOR	R20 T-24J 10 kΩ	
R26	7010004410	RESISTOR	R20J 47 kΩ	
R27	7010003240	RESISTOR	ELR20J 47 Ω	
R28	7010003400	RESISTOR	ELR20J 1 kΩ	
R29	7010003400	RESISTOR	ELR20J 1 kΩ	
R30	7010004271 7010003620	RESISTOR RESISTOR	R20 T-24J 4.7 kΩ ELR20J 47 kΩ	
R31 R32	7010003620	RESISTOR	ELR20J 470 Ω	
C1	4010000520	CERAMIC	DD108 B 472K 50V	
C2	4010000520	CERAMIC	DD108 B 472K 50V	
C4	4010000520	CERAMIC	DD108 B 472K 50V	
C5	4040000260	BARRIER	UZE 08X 104M	
C6	4010000520	CERAMIC	DD108 B 472K 50V	
C7	4010000520 4010000520	CERAMIC CERAMIC	DD108 B 472K 50V DD108 B 472K 50V	
C9 C10	4020000250	CYLINDER	UP125 X 472M	
C11	4510004950	ELECTROLYTIC	50 MV R47 SWNP	
C12	4510004320	ELECTROLYTIC	25 MV 47 SW	
C14	4510003800	ELECTROLYTIC	25 MV 4R7 SW	
C15	4020000250	CYLINDER	UP125 X 472M	
C16 C17	4040000150 4510005070	BARRIER ELECTROLYTIC	UAT 05X 472K 10 MV 47 SW	
017	4010000070	ELLOTTION		
DS1	5030000380	LCD	HLC9599-01-3210 [FUNCTION DISPLAY]	
DS4	5080000170	LAMP	HRS-7219A-Y2-30	
DS5	5080000170	LAMP	HRS-7219A-Y2-30	
DS7	5080000170	LAMP HRS-7219A-Y2-30		
S1	2260001580	SWITCH	JPZ2120-0101 (TV-3) [POWER]	
S2	2230000550	SWITCH	SPPH23079A [ATT]	
S3 S4	2230000550	SWITCH	SPPH23079A [PRE] SPPH23079A [NB]	
34	2.230000000	GTTT OF T	Or resources (MD)	

REF.	ORDER		DESCRIPTION
NO.	NO.		
S5 S6	2230000550	SWITCH	SPPH23079A [AGC] SPPH23079A [LOCK]
S7	2230000550	SWITCH	SPPH23079A [TRANSMIT]
S8	2260000070	SWITCH	SKHHAK013A [UP]
S9	2260000070	SWITCH	SKHHAK013A [DOWN]
S10 S11	2260000070	SWITCH	SKHHAK013A [VFO] SKHHAK013A [MEMO]
S12	2260000070	SWITCH	SKHHAK013A [RIT]
S13	2260000070	SWITCH	SKHHAK013A [MW]
S14	2260000070	SWITCH	SKHHAK013A [FUNC] SKHHAK013A [SPLIT]
S15 S16	2260000070	SWITCH	SKHHAKO13A [SPLIT]
S17	2260000070	SWITCH	SKHHAK013A [BAND]
S18	2260000070	SWITCH	SKHHAK013A [MHz]
\$19	2260000070	SWITCH	SKHHAK013A [kHz] SKHHAK013A [AM/FM]
S20 S21	2260000070	SWITCH	SKHHAK013A [CW/N]
S22	2260000070	SWITCH	SKHHAK013A [SSB]
S23	2260000070	SWITCH	SKHHAK013A [A=B]
S24	2230000550	SWITCH	SPPH23079A [COMP]
J5	6510003080	CONNECTOR	RT01T-1.0B
	:		
W60	6910001020	JUMPER	IPS-1041-2
W61 W64	7120000380 6910001020	JUMPER JUMPER	JPW 01 R-01 IPS-1041-2
W65	6910001020	JUMPER	IPS-1041-4
W66	6910001020	JUMPER	IPS-1041-2
W67	6910001020	JUMPER	IPS-1041-2
W68 W69	6910001030 6910001020	JUMPER JUMPER	IPS-1041-4 IPS-1041-2
W70	6910001030	JUMPER	IPS-1041-4
W71	6910001030	JUMPER	IPS-1041-4
W74	6910001020	JUMPER	IPS-1041-2 IPS-1041-2
W75 W76	6910001020 6910001030	JUMPER JUMPER	IPS-1041-4
W77	6910001030	JUMPER	IPS-1041-4
W78	6910001030	JUMPER	IPS-1041-4
W79 W80	6910001030 6910001030	JUMPER JUMPER	IPS-1041-4 IPS-1041-4
W81	6910001030	JUMPER	IPS-1041-4
W82	6910001020	JUMPER	IPS-1041-2
W83	6910001020	JUMPER	IPS-1041-2
W84 W85	6910001020 6910001020	JUMPER JUMPER	IPS-1041-2 IPS-1041-2
W86	6910001030	JUMPER	IPS-1041-4
W87	6910001030	JUMPER	IPS-1041-4
W88 W89	6910001030 6910001030	JUMPER JUMPER	IPS-1041-4 IPS-1041-4
W91	6910001030	JUMPER	IPS-1041-4
W92	6910001030	JUMPER	IPS-1041-4
W94	6910001030	JUMPER	IPS-1041-4
W95 W96	6910001030 6910001030	JUMPER JUMPER	IPS-1041-4 IPS-1041-4
W97	6910001030	JUMPER	IPS-1041-4
W98	6910001020	JUMPER	IPS-1041-2
W99	6910001020	JUMPER JUMPER	IPS-1041-2 IPS-1041-2
W100 W101	6910001020 6910001030	JUMPER	IPS-1041-4
W102	6910001030	JUMPER	IPS-1041-4
W103	6910001020	JUMPER	IPS-1041-2
W104 W105	6910001030 6910001020	JUMPER JUMPER	IPS-1041-4 IPS-1041-2
W106	6910001020	JUMPER	IPS-1041-4
W108	7120000010	JUMPER	JPW 02A
W109	7120000010	JUMPER JUMPER	JPW 02A IPS-1041-2
W110	6910001020	JUMPEN	II: U*1041*2
EP1	0910033913	PCB	B 3273C (FRONT)
EP2	0910035721	PCB	B 3468A (LCD SPACER)

# [MIC UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
J3	6510000190	CONNECTOR	FM214-8SS (P) [MICROPHONE]
EP4	0910006331	FPC	В 792А

# [LED UNIT]

REF. NO.	ORDER NO.		DESCRIPTION
DS2 DS3	5040001290 5040001300	LED LED	SLP153B [TX] SLP253B [RX]
EP1	0910033892	РСВ	B 3418B (LED)

# [PBT UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	
R1	7210002180	VARIABLE	RV-273 (RK1242210) 10KB [PBT]
EP1	0910033871	PCB	B 3416A (PBT)

# [MAIN UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
IC1	1790000050	IC	ND487C1-3R
IC2	1110001310	IC	μPC577HA
IC4	1110002500	IC	M5218AL
IC5	1110001320	IC	μPC1037HA
IC6	1110001320	IC	μPC1037HA
IC7	1110001320	IC	μPC1037HA
IC8	1130001000	IC	μPD4066BC
IC9	1110000890	IC	μPC1241H
IC10	1110002500	1C	M5218AL
IC11	1110002500	IC	M5218AL
IC12	1110001320	IC	μPC1037HA
IC13	1130003880	IC	GD4011B
IC14	1180000470	IC	NJM7808A
		<b>TO</b>	20022
Q1	1530000810	TRANSISTOR	2SC2053
Q2	1580000230	FET	3SK122 K
Q3	1580000230	FET	3SK122 K
Q4	1530000810	TRANSISTOR	2SC2053
Q5	1520000230	TRANSISTOR	2SB909M Q
Q6	1590000340	TRANSISTOR	RN1202
Q7	1560000100	FET	2SK241-Y
Q8	1560000620	FET	2SK937
Q9	1560000620	FET	2SK937
Q10	1590000360	TRANSISTOR	RN2202
Q11	1530000110	TRANSISTOR	2SC2458-GR
Q12	1590000340	TRANSISTOR	RN1202
Q13	1560000620	FET	2SK937
Q14	1560000620	FET	2SK937 3SK101-GR
Q15	1580000010	FET	35N 101-01N

	UNIT		
REF. NO.	ORDER NO.	D	ESCRIPTION
Q16	1560000080	FET	2SK192A-Y
Q17	1510000080	TRANSISTOR	2SA1048-GR
Q18	1530000110	TRANSISTOR	2SC2458-GR
Q19 Q20	1530000110 1590000360	TRANSISTOR TRANSISTOR	2SC2458-GR RN2202
Q21	1580000300	FET	3SK101-GR
Q22	1560000100	FET	2SK241-Y
Q23	1590000340	TRANSISTOR	RN1202
Q24	1590000360	TRANSISTOR	RN2202
Q25 Q26	1590000360 1530000110	TRANSISTOR TRANSISTOR	RN2202 2SC2458-GR
Q27	1580000110	FET	3SK101-GR
Q28	1560000100	FET	2SK241-Y
Q29	1530000110	TRANSISTOR	2SC2458-GR
Q30	1530000110	TRANSISTOR	2SC2458-GR
Q31	1530000110 1590000340	TRANSISTOR TRANSISTOR	2SC2458-GR RN1202
Q32 Q33	1590000340	TRANSISTOR	RN1202
Q34	1590000340	TRANSISTOR	RN1202
Q35	1530000110	TRANSISTOR	2SC2458-GR
Q36	1530000110	TRANSISTOR	2SC2458-GR
Q37	1530000110	TRANSISTOR	2SC2458-GR
Q38 Q39	1510000080 1590000350	TRANSISTOR TRANSISTOR	2SA1048-GR RN1204
Q40	1530000110	TRANSISTOR	2SC2458-GR
Q41	1590000360	TRANSISTOR	RN2202
Q42	1530000110	TRANSISTOR	2SC2458-GR
Q44	1530000110	TRANSISTOR	2SC2458-GR
Q46	1540000070	TRANSISTOR TRANSISTOR	2SD468C 2SD468C
Q47 Q48	1540000070 1540000150	TRANSISTOR	2SD1225M R
Q49	1530000110	TRANSISTOR	2SC2458-GR
Q50	1530000110	TRANSISTOR	2SC2458-GR
Q51	1590000340	TRANSISTOR	RN1202
Q52	1540000150	TRANSISTOR	2SD1225M R
Q53 Q54	1510000080 1590000350	TRANSISTOR TRANSISTOR	2SA1048-GR RN1204
Q55	1590000350	TRANSISTOR	RN1204
Q56	1530000110	TRANSISTOR	2SC2458-GR
Q57	1530000040	TRANSISTOR	2SC1815-Y
Q58	1530000110	TRANSISTOR	2SC2458-GR
Q59 Q60	1590000280 1590000350	FET TRANSISTOR	2SJ105-Y RN1204
Q61	1590000340	TRANSISTOR	RN1202
Q62	1590000350	TRANSISTOR	RN1204
Q63	1590000340	TRANSISTOR	RN1202
Q64	1590000340	TRANSISTOR	RN1202
D1	1710000050	DIODE	1\$\$53
D2	1710000050 1710000050	DIODE	1SS53 1SS53
D3 D4	1710000050	DIODE DIODE	18853
D5	1710000050	DIODE	1SS53
D6	1710000050	DIODE	18853
D7	1710000050	DIODE	1SS53
D8 D9	1710000050 1710000050	DIODE DIODE	1SS53 1SS53
D10	1710000050	DIODE	1SS133 T77 (26M/M)
D11	1710000160	DIODE	1SS133
D12	1710000330	DIODE	1K60
D13	1710000330	DIODE	1K60
D14	1710000611	DIODE	1SS133 T77 (26M/M) 1SS53
D15 D16	1710000050 1710000050	DIODE DIODE	18853
D17	1710000160	DIODE	1SS133
D18	1710000050	DIODE	1SS53
D19	1710000050	DIODE	18853
D20	1710000050	DIODE	1SS53
D21 D22	1710000050 1710000160	DIODE DIODE	1SS53 1SS133
D22	1710000160	DIODE	1SS53
D24	1710000050	DIODE	1SS53
D25	1710000050	DIODE	18853
D26	1710000050	DIODE	1SŞ53

REF. NO.	ORDER NO.		DESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION
D27	1710000160	DIODE	188133	D111	1710000050	DIODE	1SS53
D28	1710000050	DIODE	18853	D112	1710000160	DIODE	1SS133
D29	1710000050	DIODE	1SS53	D113	1710000160	DIODE	1SS133
D30	1710000050	DIODE	18853	D114	1710000160	DIODE	1SS133
D31	1710000050	DIODE	1SS53	D115	1730000160	ZENER	RD7.5E B2
D32	1710000050	DIODE	1SS53				
D33	1710000050	DIODE	1SS53 1SS133 T77 (26M/M)	X1	6050001800	XTAL	CR-49
D34	1710000611	DIODE	1SS53	X2	6050001340	XTAL	CR- 1
D35 D36	1710000050 1710000050	DIODE	1SS53	\ \^E	0030001040	A A A	<b>3</b> 11 /
D37	1710000050	DIODE	1SS53				
D38	1710000050	DIODE	1\$\$53	FI1	2010000240	FILTER	70M15A (FL-71)
D39	1710000050	DIODE	18853	FI2	2010000270	FILTER	9M15A (FL-23)
D40	1710000050	DIODE	18853	FI3	2010000320	FILTER	9M22D2 (FL-30)
D41	1710000050	DIODE	18853	FI4	2020000150	CERAMIC	CFW455HT
D42	1710000050	DIODE	1\$\$53	Fi5	2020000210	CERAMIC	CFJ455K5 (FL-65)
D43	1710000050	DIODE	1\$\$53				
D44	1710000050	DIODE	1SS53		64 40000000	COIL	LR-20
D45	1710000050	DIODE	1SS53	L1 L2	6140000080 6180000670	COIL	LAL 02NA R22K
D46	1710000050	DIODE	1SS53 1SS53	L3	6180002520	COIL	LAL 02NA R27K
D47	1710000050 1710000050	DIODE	1SS53	L4	6180000860	COIL	LAL 03NA 5R6K
D48 D49	1710000050	DIODE	1SS53	L5	6180000960	COIL	LAL 03NA 102K
D49 D50	1710000050	DIODE	1SS53	L6	6140002050	COIL	LR-224
D50	1710000050	DIODE	1SS53	L7	6150001770	COIL	LS-198
D51	1710000050	DIODE	18853	L8	6110001620	COIL	LA-245
D55	1710000160	DIODE	188133	L9	6180000900	COIL	LAL 03NA 101K
D56	1710000330	DIODE	1K60	L10	6140001460	COIL	LR-170
D57	1710000160	DIODE	188133	L11	6140001260	COIL	LR-151
D58	1710000160	DIODE	188133	L12	6180000730	COIL	LAL 03NA R47M
D59	1790000070	DIODE	188237	L13	6180000690	COIL	LAL 03NA R22M
D60	1790000070	DIODE	1SS237	L14	6150000990	COIL	LS-114
D61	1710000611	DIODE	1SS133 T77 (26M/M)	L16	6150001770	COIL	LS-198
D62	1710000330	DIODE	1K60	L17	6150001770	COIL	LS-198
D63	1710000050	DIODE	1SS53	L18	6140002060 6140002060	COIL	LR-225 LR-225
D64	1710000160	DIODE	1SS133 1SS133 T77 (26M/M)	L19 L20	6180000900	COIL	LAL 03NA 101K
D65 D66	1710000611 1710000611	DIODE	1SS133 T77 (26M/M)	L21	6150001640	COIL	LS-180B
D67	1710000011	DIODE	18853	L22	6150000700	COIL	LS-90A
D68	1710000050	DIODE	1SS53	L23	6150000700	COIL	LS-90A
D69	1710000050	DIODE	18853	L24	6180000950	COIL	LAL 03NA 150K
D70	1710000050	DIODE	1\$\$53	L25	6150001590	COIL	LS-175
D71	1710000050	DIODE	18853	L26	6150001590	COIL	LS-175
D72	1710000611	DIODE	1SS133 T77 (26M/M)	L27	6140000640	COIL	LR-86
D73	1710000611	DIODE	1SS133 T77 (26M/M)	L28	6140001540	COIL	LR-169
D75	1710000160	DIODE	1SS133	L29	6110001650	COIL	LA-248
D76	1710000160	DIODE	1\$\$133	L30	6180000700	COIL	LAL 03NA R27M
D77	1710000160	DIODE	1SS133	L31	6140002050	COIL	LR-224 LAL 03NA 100K
D78	1710000611	DIODE	1SS133 T77 (26M/M)	L32 L33	6180000880 6150001770	COIL	LS-198
D79	1710000611	DIODE ZENER	1SS133 T77 (26M/M) RD3.9E B2	L33	6150001770	COIL	LS-254
D80 D81	1730000070 1710000160	DIODE	1SS133	L35	6150002430	COIL	LS-254
D81 D82	1710000160	DIODE	1SS133	L36	6150002400	COIL	LS-114
D83	1710000160	DIODE	188133	L37	6150001470	COIL	LS-163
D84	1710000160	DIODE	1SS133	L38	6180000930	COIL	LAL 03NA 220K
D85	1710000160	DIODE	188133	L39	6180000950	COIL	LAL 03NA 150K
D86	1710000611	DIODE	1SS133 T77 (26M/M)	L40	6180000900	COIL	LAL 03NA 101K
D87	1710000160	DIODE	1SS133	L41	6180000900	COIL	LAL 03NA 101K
D91	1710000160	DIODE	1SS133	L42	6180002860	COIL	EL0606SKI-4R7J
D92	1710000160	DIODE	1SS133	L43	6180002850	COIL	EL0606SKI-3R9J
D93	1710000611	DIODE	1SS133 T77 (26M/M)	L44	6180000900	COIL	LAL 03NA 101K LAL 03NA 5R6K
D94	1710000160	DIODE	1SS133	L45 L46	6180000860 6180000850	COIL	LAL 03NA 4R7K
D95	1710000160	DIODE	1SS133	L46 L47	6180000900	COIL	LAL 03NA 101K
D96	1710000611	DIODE	1SS133 T77 (26M/M) 1S1555	L47 L48	6180000900	COIL	LAL 03NA 2R2M
D97 D98	1710000030 1710000611	DIODE	1S133 T77 (26M/M)	L49	6180000810	COIL	LAL 03NA 2R2M
D100	1710000611	DIODE	188133	L50	6180000830	COIL	LAL 03NA 3R3K
D100	1720000230	VARICAP	1SV101	L51	6180000850	COIL	LAL 03NA 4R7K
D101	1710000580	DIODE	1SS265	L52	6180000900	COIL	LAL 03NA 101K
D103	1710000580	DIODE	1SS265	L53	6180000800	COIL	LAL 03NA 1R8M
D104	1710000580	DIODE	1SS265	L54	6180000780	COIL	LAL 03NA 1R2M
D105	1710000580	DIODE	1SS265	L55	6180000790	COIL	LAL 03NA 1R5M
D106	1710000160	DIODE	1SS133	L56	6180000790	COIL	LAL 03NA 1R5M
D400	1710000050	DIODE	1SS53	L57	6180000900	COIL	LAL 03NA 101K
D109 D110	1710000050	DIODE	1SS53	L58	6180000780	COIL	LAL 03NA 1R2M

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REF. NO.	ORDER NO.	E	DESCRIPTION	REF NO			DESCRIPTION
L59	6180000770	COIL	LAL 03NA 1ROM	R22	7010004091	RESISTOR	R20 T-24J 150 Ω
L60	6180000760	COIL	LAL 03NA R82M	R23	7010004271	RESISTOR	R20 T-24J 4.7 kΩ
L61	6180000760	COIL	LAL 03NA R82M	R24	7010003330	RESISTOR	ELR20J 270 Ω
L62	6180000900	COIL	LAL 03NA 101K	R25	7010003330	RESISTOR	ELR20J 270 Ω
L63	6180000760	COIL	LAL 03NA R82M	R26	7010003190	RESISTOR	ELR20J 18 Ω
L64	6180000750	COIL	LAL 03NA R68M	R27	7010003460	RESISTOR	ELR20J 3.3 kΩ
L65	6180000750	COIL	LAL 03NA R68M	R28	7010004231	RESISTOR	R20 T-24J 2.2 kΩ
L66	6180000740	COIL	LAL 03NA R56M	R29	7010004231	RESISTOR	R20 T-24J 2.2 kΩ
L67	6180000900	COIL	LAL 03NA 101K	R30	7010001191	RESISTOR	R25X T-24J 2.2 kΩ
L68	6180000730	COIL	LAL 03NA R47M	R31	7010003320	RESISTOR	ELR20J 220 Ω
L69	6180000730	COIL	LAL 03NA R47M	R32	7010000991	RESISTOR	R25X T-24J 47 Ω
L70	6180000730	COIL	LAL 03NA R47M	R33	7010004531	RESISTOR	R20 T-24J 470 kΩ
L71	6180000730	COIL	LAL 03NA R47M	R34	7010003580	RESISTOR	ELR20J 22 kΩ
L72	6180000900	COIL	LAL 03NA 101K	R35	7510000230	THERMISTOR	ERT-D2ZGL 251S
L73	6180000700	COIL	LAL 03NA R27M	R36	7010003420	RESISTOR	ELR20J 1.5 kΩ
L74	6180000700	COIL	LAL 03NA R27M	R37	7010004071	RESISTOR	R20 T-24J 100 Ω
L75	6180000710	COIL	LAL 03NA R33M	R38	7010003660	RESISTOR	ELR20J 100 kΩ
L76	6180001290	COIL	LAL 02NA R33K	R39	7010003280	RESISTOR	ELR20J 100 Ω
L77	6150002290	COIL	LS-240	R40	7010003280	RESISTOR	ELR20J 100 Ω
L78	6150002270	COIL	LS-238	R41	7010003951	RESISTOR	R20 T-24J 10 Ω
L79	6150002290	COIL	LS-240	R42	7010003480	RESISTOR	ELR20J 4.7 kΩ
L80	6170000140	COIL	LW-15	R43	7010003660	RESISTOR	ELR20J 100 kΩ
L81	6180000690	COIL	LAL 03NA R22M	R45	7010003620	RESISTOR	ELR20J 47 kΩ
L82	6150001220	COIL	LS-134	R46	7010004451	RESISTOR	R20 T-24J 100 kΩ
L83	6150001210	COIL	LS-133A	R47	7010003530	RESISTOR	ELR20J 10 kΩ
L85	6180000900	COIL	LAL 03NA 101K	R48	7010003510	RESISTOR	ELR20J 6.8 kΩ
L86	6180000900	COIL	LAL 03NA 101K	R49	7010003340	RESISTOR	ELR20J 330 Ω
L87	6180000900	COIL	LAL 03NA 101K	R50	7010003580	RESISTOR	ELR20J 22 kΩ
L88	6180000880	COIL	LAL 03NA 100K	R51	7010004191	RESISTOR	R20 T-24J 1 kΩ
L91	6180000900	COIL	LAL 03NA 101K	R52	7010004321	RESISTOR	R20 T-24J 10 kΩ
L92	6180000900	COIL	LAL 03NA 101K	R53	7010004321	RESISTOR	R20 T-24J 10 kΩ R20 T-24J 2.2 kΩ
L93	6910000670	COIL	BT01RN1-A61-001	R54	7010004231	RESISTOR	R20 T-24J 2.2 kΩ
L94	6180000900	COIL	LAL 03NA 101K	R55	7010004231	RESISTOR RESISTOR	ELR20J 4.7 kΩ
L95	6180000900	COIL	LAL 03NA 101K	R56	7010003480 7010004210	RESISTOR	R20J 1.5 kΩ
L96	6910000670	COIL	BT01RN1-A61-001	R57 R58	7010004210	RESISTOR	R20J 100 Ω
L97	6180000900	COIL	LAL 03NA 101K	R59	7010004070	RESISTOR	R20J 2.2 kΩ
L98	6910000670	COIL	BT01RN1-A61-001	R60	7010004230	RESISTOR	ELR20J 1.5 kΩ
L99	6180000900	COIL	LAL 03NA 101K LAL 03NA 101K	R61	7010003420	RESISTOR	R20 T-24J 2.2 kΩ
L100	6180000900 6180000900	COIL	LAL 03NA 101K	R62	7010004231	RESISTOR	ELR20J 2.2 kΩ
L101	1	COIL	BT01RN1-A61-001	R63	7010001031	RESISTOR	R25X T-24J 100 Ω
L102 L103	6910000670 6180000900	COIL	LAL 03NA 101K	R64	7010003440	RESISTOR	ELR20J 2.2 kΩ
L105	6180000500	COIL	LAL 02NA 101K	R65	7010000330	RESISTOR	ELR25J 470 Ω
L105	6150001210	COIL	LS-133A	R66	7010004111	RESISTOR	R20 T-24J 220 Ω
L108	6180000920	COIL	LAL 03NA 221K	R67	7010003991	RESISTOR	R20 T-24J 22 Ω
L115	6180000900	COIL	LAL 03NA 101K	R68	7010003320	RESISTOR	ELR20J 220 Ω
L116	6180000900	COIL	LAL 03NA 101K	R69	7010003911	RESISTOR	R20 T-24J 4.7 Ω
L117	6180000900	COIL	LAL 03NA 101K	R70	7010003440	RESISTOR	ELR20J 2.2 kΩ
L118	6180000700	COIL	LAL 03NA R27M	R71	7010003400	RESISTOR	ELR20J 1 kΩ
L119	6910000670	COIL	BT01RN1-A61-001	R72	7010003400	RESISTOR	ELR20J 1 kΩ
L120	6180000900	COIL	LAL 03NA 101K	R73	7010003360	RESISTOR	ELR20J 470 Ω
L121	6180000900	COIL	LAL 03NA 101K	R74	7010003360	RESISTOR	ELR20J 470 Ω
				R75	7010003530	RESISTOR	ELR20J 10 kΩ
				R76	7010004031	RESISTOR	R20 T-24J 47 Ω
R1	7010003330	RESISTOR	ELR20J 270 Ω	R77	7010004061	RESISTOR	R20 T-24J 82 Ω
R2	7010003190	RESISTOR	ELR20J 18 Ω	R78	7010001531	RESISTOR	R25X T-24J 1 MΩ
R3	7010003330	RESISTOR	ELR20J 270 Ω	R79	701000399,1	RESISTOR	R20 T-24J 22 Ω
R4	7010000951	RESISTOR	R25X T-24J 22 Ω	R80	7010004111	RESISTOR	R20 T-24J 220 Ω
R5	7010003520	RESISTOR	ELR20J 8.2 kΩ	R81	7010000991	RESISTOR	R25X T-24J 47 Ω
R6	7010003160	RESISTOR	ELR20J 10 Ω	R82	7010003540	RESISTOR	ELR20J 12 kΩ
R7	7010004211	RESISTOR	R20 T-24J 1.5 kΩ	R83	7010004231	RESISTOR	R20 T-24J 2.2 kΩ
R8	7010003300	RESISTOR	ELR20J 150 Ω	R84	7010004031	RESISTOR	R20 T-24J 47 Ω
R9	7010003660	RESISTOR	ELR20J 100 kΩ	R85	7310003180	TRIMMER	EVN-2ACA00 B24 (203)
R10	7010003660	RESISTOR	ELR20J 100 kΩ	R86	7010004071	RESISTOR	R20 T-24J 100 Ω
R11	7010003480	RESISTOR	ELR20J 4.7 kΩ	R87	7010004960	RESISTOR	ELR20J 1.5 MΩ
R12	7010003240	RESISTOR	ELR20J 47 Ω	R88	7010003360	RESISTOR	ELR20J 470 Ω
R13	7010003160	RESISTOR	ELR20J 10 Ω	R89	7510000300	THERMISTOR	ERT-D2ZGL 601S
R14	7010004171	RESISTOR	R20 T-24J 680 Ω	R90	7010003530	RESISTOR	ELR20J 10 kΩ
R15	7010003490	RESISTOR	ELR20J 5.6 kΩ	R91	7010003951	RESISTOR	R20 T-24J 10 Ω
R16	7010003260	RESISTOR	ELR20J 68 Ω	R92	7010003340	RESISTOR	ELR20J 330 Ω
R17	7010004071	RESISTOR	R20 T-24J 100 Ω	R93	7010001111	RESISTOR	R25X T-24J 470 Ω
R18	7010003510	RESISTOR	ELR20J 6.8 kΩ	R94	7010000330	RESISTOR	ELR25J 470 Ω
R19	7010000791	RESISTOR	R25X T-24J 1 Ω	R95	7010004071	RESISTOR	R20 T-24J 100 Ω
R20	7010003440	RESISTOR	ELR20J 2.2 kΩ	R96	7010004071	RESISTOR	R20 T-24J 100 Ω R20 T-24J 100 Ω
R21	7010003460	RESISTOR	ELR20J 3.3 kΩ	R97	7010004071	RESISTOR	112U 1-24U 1UU 12
		***					

REF. NO.	ORDER NO.		DESCRIPTION		REF. NO.	ORDER NO.		DESCRIPTION
R98	7010004071	RESISTOR	R20 T-24J 100 Ω	1 [	R177	7310003200	TRIMMER	EVN-2ACA00 B14 (103)
R99	7010004071	RESISTOR	R20 T-24J 100 Ω		R178	7010003660	RESISTOR	ELR20J 100 kΩ
R102	7010003350	RESISTOR	ELR20J 390 Ω	1 1	R179	7310003200	TRIMMER	EVN-2ACA00 B14 (103)
R103	7010003250	RESISTOR	ELR20J 56 Ω	1 1	R180	7010004491	RESISTOR RESISTOR	R20 T-24J 220 kΩ R20J 2.2 kΩ
R104	7010003620	RESISTOR	ELR20J 47 kΩ R25X T-24J 4.7 Ω	1 1	R181 R182	7010004230 7010003480	RESISTOR	ELR20J 4.7 kΩ
R105 R106	7010000871 7010003480	RESISTOR	ELR20J 4.7 kΩ		R183	7010003480	RESISTOR	ELR20J 10 kΩ
R100	7010003480	RESISTOR	ELR20J 470 kΩ	1	R184	7010003330	RESISTOR	R25X T-24J 2.2 kΩ
R108	7010003740	RESISTOR	R20 T-24J 22 kΩ	1	R185	7010003710	RESISTOR	ELR20J 270 kΩ
R109	7010004421	RESISTOR	R20 T-24J 56 kΩ	1 1	R186	7310003230	TRIMMER	EVN-2ACA00 B15 (104)
R110	7310003200	TRIMMER	EVN-2ACA00 B14 (103)		R187	7010003620	RESISTOR	ELR20J 47 kΩ
R111	7010003530	RESISTOR	ELR20J 10 kΩ		R188	7010003620	RESISTOR	ELR20J 47 kΩ
R112	7010001031	RESISTOR	R25X T-24J 100 Ω		R189	7010003530	RESISTOR	ELR20J 10 kΩ
R113	7010003820	RESISTOR	ELR20J 3.3 MΩ	1 1	R190	7010003400	RESISTOR	ELR20J 1 kΩ
R114	7010004571	RESISTOR	R20 T-24J 1 MΩ	1 1	R191	7010003620	RESISTOR	ELR20J 47 kΩ
R115	7010004371	RESISTOR	R20 T-24J 22 kΩ		R192	7010003620	RESISTOR	ELR20J 47 kΩ
R116	7310003200	TRIMMER	EVN-2ACA00 B14 (103)		R193 R194	7010003600	RESISTOR TRIMMER	ELR20J 33 kΩ EVN-2ACA00 B14 (103)
R117	7010003580	RESISTOR	ELR20J 22 kΩ ELR20J 3.3 MΩ	1 1	R195	7010003200	RESISTOR	R20 T-24J 33 kΩ
R118	7010003820 7010003530	RESISTOR	ELR20J 3.3 MΩ		R196	7010004391	RESISTOR	ELR20J 1 MΩ
R119 R120	7010003530	RESISTOR	R20 T-24J 100 Ω		R197	7010003760	RESISTOR	ELR20J 470 Ω
R121	7010004071	RESISTOR	ELR20J 8.2 kΩ	1 1	R198	7010004571	RESISTOR	R20 T-24J 1 MΩ
R122	7010003320	RESISTOR	R20 T-24J 1 kΩ	1 1	R199	7010005220	RESISTOR	ELR20J 10 MΩ
R123	7010003360	RESISTOR	ELR20J 470 Ω		R200	7010001531	RESISTOR	R25X T-24J 1 MΩ
R124	7010003480	RESISTOR	ELR20J 4.7 kΩ		R201	7010003480	RESISTOR	ELR20J 4.7 kΩ
R125	7010003550	RESISTOR	ELR20J 15 kΩ		R202	7010004150	RESISTOR	R20J 470 Ω
R126	7010003510	RESISTOR	ELR20J 6.8 kΩ	]	R203	7010004451	RESISTOR	R20 T-24J 100 kΩ
R127	7010003640	RESISTOR	ELR20J 68 kΩ	] ]	R204	7010003660	RESISTOR	ELR20J 100 kΩ
R128	7010003660	RESISTOR	ELR20J 100 kΩ	1 1	R205	7010004150	RESISTOR	R20J 470 Ω
R129	7010003400	RESISTOR	ELR20J 1 kΩ	1 1	R206	7010003680	RESISTOR	ELR20J 150 kΩ
R130	7010004151	RESISTOR	R20 T-24J 470 Ω		R207	7010003510	RESISTOR	ELR20J 6.8 kΩ
R131	7010003700	RESISTOR	ELR20J 220 kΩ		R208	7310003170	TRIMMER	EVN-2ACA00 B53 (502)
R132	7010003550	RESISTOR	ELR20J 15 kΩ	1 1	R209	7010000410	RESISTOR	ELR25J 2.2 kΩ
R133	7010003510	RESISTOR	ELR20J 6.8 kΩ	1 1	R210	7310003210	TRIMMER	EVN-2ACA00 B54 (503)
R134	7010003460	RESISTOR	ELR20J 3.3 kΩ	1 1	R211	7010004531	RESISTOR	R20 T-24J 470 kΩ
R135	7010003240	RESISTOR	ELR20J 47 Ω	1 1	R212	7010003480	RESISTOR	ELR20J 4.7 kΩ
R136	7010004031	RESISTOR	R20 T-24J 47 Ω	1 1	R213	7010003810	RESISTOR	ELR20J 2.2 MΩ ELR20J 470 Ω
R137	7010004071	RESISTOR	R20 T-24J 100 Ω	1	R214 R215	7010003360 7010003300	RESISTOR	ELR20J 150 Ω
R138	7310003200 7510000330	TRIMMER THERMISTOR	EVN-2ACA00 B14 (103) ERT-D2ZIL 154S	1 1	R216	7010003500	RESISTOR	ELR20J 10 kΩ
R140 R141	7010004071	RESISTOR	R20 T-24J 100 Ω	11	R217	7010003660	RESISTOR	ELR20J 100 kΩ
R142	7010004071	RESISTOR	ELR20J 330 Ω	1 1	R218	7010003400	RESISTOR	ELR20J 1 kΩ
R143	7010004151	RESISTOR	R20 T-24J 470 Ω	1 1	R220	7010003740	RESISTOR	ELR20J 470 kΩ
R144	7010004410	RESISTOR	R20J 47 kΩ	1 1	R221	7010003740	RESISTOR	ELR20J 470 kΩ
R145	7010004071	RESISTOR	R20 T-24J 100 Ω		R222	7010003530	RESISTOR	ELR20J 10 kΩ
R146	7010004231	RESISTOR	R20 T-24J 2.2 kΩ		R223	7010003280	RESISTOR	ELR20J 100 Ω
R147	7010003440	RESISTOR	ELR20J 2.2 kΩ	H	R224	7010003530	RESISTOR	ELR20J 10 kΩ
R148	7010003530	RESISTOR	ELR20J 10 kΩ	1 1	R225	7010000090	RESISTOR	ELR25J 4.7 Ω
R149	7010003831	RESISTOR	R20 T-24J 1 Ω	1 1	R226	7010000370	RESISTOR	ELR25J 1 kΩ
R150	7010003300	RESISTOR	ELR20J 150 Ω		R227	7010000090	RESISTOR	ELR25J 4.7 Ω
R151	7010003400	RESISTOR	ELR20J 1 kΩ		R228	7010000370	RESISTOR	ELR25J 1 kΩ
R152	7010003530	RESISTOR	ELR20J 10 kΩ		R229	7010000090	RESISTOR	ELR25J 4.7 Ω ELR20J 1 kΩ
R153	7010004321	RESISTOR	R20 T-24J 10 kΩ ELR20J 10 kΩ		R230 R232	7010003400 7010004111	RESISTOR	R20 T-24J 220 Ω
R154 R155	7010003530 7010004321	RESISTOR	R20 T-24J 10 kΩ		R233	7010004111	RESISTOR	ELR20J 4.7 kΩ
R156	7010004321	RESISTOR	R20 T-24J 1 kΩ		R234	7010003480	RESISTOR	ELR20J 4.7 kΩ
R157	7010003480	RESISTOR	ELR20J 4.7 kΩ		R235	7010003490	RESISTOR	ELR20J 5.6 kΩ
R158	7010003400	RESISTOR	ELR20J 1 kΩ		R236	7010004311	RESISTOR	R20 T-24J 8.2 kΩ
R159	7010003400	RESISTOR	ELR20J 1 kΩ	1 1	R237	7010003380	RESISTOR	ELR20J 680 Ω
R160	7010004421	RESISTOR	R20 T-24J 56 kΩ		R238	7310000860	TRIMMER	RH1051D13J0JA (1KB)
R161	7010003200	RESISTOR	ELR20J 22 Ω		R239	7010003540	RESISTOR	ELR20J 12 kΩ
R162	7010003400	RESISTOR	ELR20J 1 kΩ		R240	7010003440	RESISTOR	ELR20J 2.2 kΩ
R164	7010003660	RESISTOR	ELR20J 100 kΩ	1	R241	7310003200	TRIMMER	EVN-2ACA00 B14 (103)
R165	7010003280	RESISTOR	ELR20J 100 Ω		R242	7010003530	RESISTOR	ELR20J 10 kΩ
R166	7010003660	RESISTOR	ELR20J 100 kΩ	1 1	R243	7010004071	RESISTOR	R20 T-24J 100 Ω
R167	7010004451	RESISTOR	R20 T-24J 100 kΩ		R244	7210001540	VARIABLE	RK09K1110AEFA (1MB)
R168	7010003660	RESISTOR	ELR20J 100 kΩ				DE016-55	[DELAY]
R169	7010003440	RESISTOR	ELR20J 2.2 kΩ		R245	7010004321	RESISTOR	R20 T-24J 10 kΩ
R170	7010004231	RESISTOR	R20 T-24J 2.2 kΩ		R246	7010003400	RESISTOR	ELR20J 1 kΩ
R171	7010003440	RESISTOR	ELR20J 2.2 kΩ	1 1	R247	7010004301	RESISTOR	R20 T-24J 6.8 kΩ
R172	7010004231	RESISTOR	R20 T-24J 2.2 kΩ		R248	7010004571	RESISTOR	R20 T-24J 1 MΩ R25X T-24J 100 Ω
R173	7010003480	RESISTOR	ELR20J 4.7 kΩ		R249 R256	7010001031 7010004271	RESISTOR RESISTOR	R20 T-24J 4.7 kΩ
R174	7010003470 7010004211	RESISTOR	ELR20J 3.9 kΩ R20 T-24J 1.5 kΩ		R257	7010004271	RESISTOR	R20 T-24J 4.7 kΩ
R175 R176	7010004211	RESISTOR	R20 T-24J 1.5 kΩ		R258	7010004271	RESISTOR	R20 T-24J 47 kΩ
	1.010004401	,	. 1EO 1 M TO 100 1124			1.0.0007711	5.5.5.	/ - 17 17 1705

R259   7010003480   RESISTOR   ELR20J 4.7 kΩ   R261   7010003460   RESISTOR   ELR20J 1 kΩ   R262   7010003460   RESISTOR   ELR20J 3.3 kΩ   R263   701000421   RESISTOR   ELR20J 22 kΩ   R264   7010003580   RESISTOR   ELR20J 22 kΩ   R266   7010003590   RESISTOR   R262   22 kΩ   R266   7010003590   RESISTOR   R262   22 kΩ   R266   7010003590   RESISTOR   R262   47 kΩ   R268   7010003590   RESISTOR   R262   47 kΩ   R268   7010003590   RESISTOR   R262   47 kΩ   R269   7010003590   RESISTOR   ELR20J 4.7 kΩ   R269   7010003590   RESISTOR   ELR20J 4.7 kΩ   R269   7010003590   RESISTOR   ELR20J 4.7 kΩ   R271   7010003590   RESISTOR   R20 T-24J 10 kΩ   R273   7010003590   RESISTOR   R20 T-24J 10 kΩ   R273   7010003590   RESISTOR   R20 T-24J 10 kΩ   R274   7010003590   RESISTOR   R20 T-24J 100 kΩ   R275   7010003590   RESISTOR   ELR20J 10 kΩ   R277   7010004371   RESISTOR   R20 T-24J 10 kΩ   R277   7010004371   RESISTOR   R20 T-24J 10 kΩ   R289   7010004371   RESISTOR   R20 T-24J 10 kΩ   R289   7010004371   RESISTOR   R20 T-24J 10 kΩ   R289   7010004371   RESISTOR   R20 T-24J 10 kΩ   R288   7010004471   RESISTOR   R20 T-24J 10 kΩ   R288   7010004471   RESISTOR   R20 T-24J 10 kΩ   R289   7010003280   RESISTOR   R20 T-24J 10 kΩ   R289   7010003280   RESISTOR   R20 T-24J 10 kΩ   R289   7010003280   RESISTOR   R20 T-24J 10 kΩ   R289   7010003480   RESISTOR   R20 T-24J 10 kΩ   R289   7010003490   RESISTOR   R20 T-24J 10 kΩ   R289   7010003490   RESISTOR   R20 T-24J 10 kΩ   R299   7010003490   R20	REF. NO.	ORDER NO.		PESCRIPTION
R261   7010003460   RESISTOR   ELR2DJ 470 Ω   RESISTOR   RESISTOR   REJROJ 3.3 kΩ   RESISTOR   REJROJ 22 kΩ   RESISTOR   REJROJ 22 kΩ   RESISTOR   REJROJ 10 kΩ   RESISTOR   REJROJ 470 Ω   RESISTOR   REJROJ 470 Ω   RESISTOR   REJROJ 470 Ω   RESISTOR   REJROJ 10 kΩ   RESISTOR	R259	7010003480	RESISTOR	ELR20J 4.7 kΩ
R262   7010003460   RESISTOR   REJOU 3.3 kG   R264   7010003421   RESISTOR   REJOU 7.2 kG   R265   7010003530   RESISTOR   REJOU 10 kG   R266   7010003480   RESISTOR   REJOU 10 kG   RESISTOR   REJOU 10 kG   RESISTOR   REJOU 4.7 kG   REJOU 4.7 kG   RESISTOR   REJOU 4.7 kG   REJOU 4.7 kG   RESISTOR   REJOU 4.7 kG   REJOU	R260		1	
R263   7010004231   RESISTOR   R20 T-24J 2.2 kΩ   RESISTOR   R265   7010003580   RESISTOR   REIRZOJ 22 kΩ   RESISTOR   R266   7010003100   RESISTOR   R25XJ 1 kΩ   RESISTOR   R268   7010003400   RESISTOR   R25XJ 1 kΩ   RESISTOR   R270   7010003120   RESISTOR   R210J 4.7 kΩ   RESISTOR   R270   7010003530   RESISTOR   R210J 4.7 kΩ   RESISTOR   R272   7010004171   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R273   7010003600   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R277   7010003530   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R275   7010003530   RESISTOR   R210J 10 kΩ   RESISTOR   R277   7010004371   RESISTOR   R20 T-24J 100 kΩ   RESISTOR   R20 T-24J 10 kΩ   RESIS	1			
R264   7010003380   RESISTOR   ELR20J 22 kΩ   RESISTOR   RESIST				
R265   7010003300   RESISTOR		1		
R268   7010003480   RESISTOR   ELR20J 4.7 kΩ   RESISTOR   RELR20J 4.7 Ω   RESISTOR   RELR20J 10 kΩ   RESISTOR   RESISTOR   RELR20J 10 kΩ   RESISTOR   RESISTOR   RELR20J 10 kΩ   RESISTOR   REDITED   REDITED   RESISTOR   REDITED   RESISTOR   REDITED   REDITED   RESISTOR   REDITED   REDITED   RESISTOR   REDITED   REDITED   REDITED   RESISTOR   REDITED   RESISTOR   REDITED   REDITED   RESISTOR   REDITED		1		
R268   7010003360   RESISTOR   ELR20J 470 Ω   RESISTOR   REJOU 10 KΩ   RESISTOR   REJOU 10 KΩ	R266	7010001150	RESISTOR	1
R299   7010003120   RESISTOR   ELR20J 10 kΩ   RESISTOR   RED T-24J 680 Ω   RESISTOR   RED T-24J 680 Ω   RESISTOR   RED T-24J 680 Ω   RESISTOR   RED T-24J 20 kΩ   RESISTOR   RED T-24J 100 kΩ		1	ŀ	
R270		1	l '	
R271   7010004321   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R20 T-24J 880 Ω   RESISTOR   RESISTOR   RELR20J 100 kΩ   RESISTOR   R277   7010004371   RESISTOR   R20 T-24J 100 kΩ   RESISTOR   R20 T-24J 47 kΩ   R20 T-24J 47				
R273   7010003680   RESISTOR   ELR20J 100 kΩ   R275   7010003530   RESISTOR   ELR20J 100 kΩ   R277   7010004371   RESISTOR   R20 T-24J 22 kΩ   R278   7010004071   RESISTOR   R25 T-24J 100 kΩ   R287   7010004451   RESISTOR   R25 T-24J 100 kΩ   R287   7010004451   RESISTOR   R20 T-24J 100 kΩ   R287   7010004371   RESISTOR   R20 T-24J 100 kΩ   R287   7010004371   RESISTOR   R20 T-24J 100 kΩ   R288   7010004211   RESISTOR   R20 T-24J 10 kΩ   R288   7010004211   RESISTOR   R20 T-24J 10 kΩ   R286   7010001150   RESISTOR   R20 T-24J 10 kΩ   R286   7010001150   RESISTOR   R20 T-24J 10 kΩ   R287   7010004301   RESISTOR   R20 T-24J 10 kΩ   R288   7010004171   RESISTOR   R20 T-24J 10 kΩ   R289   7010004071   RESISTOR   R25X J kΩ   R292   7010003490   RESISTOR   R20 T-24J 100 Ω   R291   7010003490   RESISTOR   ELR20J 100 Ω   R295   7010004230   RESISTOR   ELR20J 2.2 kΩ   R296   7010001281   RESISTOR   R20 T-24J 10 kΩ   R296   7010001281   RESISTOR   R20 T-24J 10 kΩ   R298   7010003440   RESISTOR   R20 T-24J 10 kΩ   R299   7010001281   RESISTOR   R20 T-24J 10 kΩ   R20 T-2	1			
R274   7010003530   RESISTOR   ELR20J 10 kΩ   RESISTOR   R277   7010004371   RESISTOR   R20 T-24J 22 kΩ   RESISTOR   R20 T-24J 100 kΩ   RESISTOR   R20J 2.2 kΩ   R20	R272	7010004171	RESISTOR	
R275   7010003330   RESISTOR   REJOUT 10 kΩ   RESISTOR   R277   7010004371   RESISTOR   R20 T-24J 22 kΩ   RESISTOR   R20 T-24J 100 kΩ   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R20 T-24J 100 kΩ   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R20 T-24J 47 kΩ   R				
R277   7010004371   RESISTOR   R20 T-24J 120 kΩ   RESISTOR   R20 T-24J 100 kΩ   RESISTOR   R25X T-24J 100 kΩ   RESISTOR   R25X T-24J 100 kΩ   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R20 T-24J 100 Ω   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R20 T-24J 47 kΩ   R20 T-24J 47 kΩ   R20 T-24J 47 kΩ   R20 T-			l :	
R278   7010004071   RESISTOR   R25 T-24 J 100 Ω   R250   7010001401   RESISTOR   R25 T-24 J 100 kΩ   R281   701000451   RESISTOR   R20 T-24 J 100 kΩ   R281   7010004321   RESISTOR   R20 T-24 J 10 kΩ   R284   701000421   RESISTOR   R20 T-24 J 10 kΩ   R285   701000421   RESISTOR   R20 T-24 J 10 kΩ   R285   701000421   RESISTOR   R20 T-24 J 10 kΩ   R285   701000421   RESISTOR   R20 T-24 J 10 kΩ   R286   701000421   RESISTOR   R20 T-24 J 10 kΩ   R287   701000340   RESISTOR   R20 T-24 J 10 kΩ   R287   7010003530   RESISTOR   R25 T-24 J 10 kΩ   R287   7010003530   RESISTOR   R25 T-24 J 10 kΩ   R289   7010004071   RESISTOR   R20 T-24 J 100 Ω   R291   701000340   RESISTOR   R20 T-24 J 100 Ω   R291   701000340   RESISTOR   R20 T-24 J 100 Ω   R291   701000340   RESISTOR   R20 T-24 J 10 kΩ   R295   7010004321   RESISTOR   R20 J 2.2 kΩ   R295   7010004321   RESISTOR   R20 J 2.2 kΩ   R296   701000340   RESISTOR   R20 J 2.2 kΩ   R297   701000340   RESISTOR   R20 T-24 J 10 kΩ   R298   7010003421   RESISTOR   R25 T-24 J 10 kΩ   R298   701000340   RESISTOR   R25 T-24 J 10 kΩ   R299   701000340   R298   R299   R2	1	1		
R279	1	1		
R281   7010004371   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R25XJ 1 kΩ   RESISTOR   R25XJ 1 kΩ   RESISTOR   R20 T-24J 10 kΩ   RESISTOR   R20 T-24J 4.7 kΩ   R20 T-24		7010001401	RESISTOR	R25X T-24J 100 kΩ
R282   7010004321   RESISTOR   R20 T-24J 10 kΩ   R284   7010004211   RESISTOR   R20 T-24J 1.5 kΩ   R285   7010004211   RESISTOR   R20 T-24J 1.5 kΩ   R285   7010004111   RESISTOR   R20 T-24J 47 kΩ   R286   7010001150   RESISTOR   R25XJ 1 kΩ   R287   7010003530   RESISTOR   R25XJ 1 kΩ   R288   7010004191   RESISTOR   R20 T-24J 10 kΩ   R289   7010004071   RESISTOR   R20 T-24J 100 Ω   R289   7010003480   RESISTOR   R20 T-24J 100 Ω   R292   7010003490   RESISTOR   ELR20J 100 Ω   R293   7010004230   RESISTOR   R20J 2.2 kΩ   R295   7010004391   RESISTOR   R20J 2.2 kΩ   R295   7010004391   RESISTOR   R20J 2.2 kΩ   R295   7010004391   RESISTOR   R20J 2.2 kΩ   R296   7010003530   RESISTOR   R20J 2.2 kΩ   R297   7010003530   RESISTOR   R25X T-24J 10 kΩ   R297   7010003540   RESISTOR   ELR20J 100 kΩ   R298   7010003440   RESISTOR   ELR20J 100 kΩ   R298   7010003440   RESISTOR   ELR20J 1.0 kΩ   R299   7010003440   RESISTOR   ELR20J 1.0 kΩ   R290   7010003440   RESISTOR   ELR20J 1.0 kΩ   R290   7010003440   RESISTOR   ELR20J 1.5 kΩ   R20   T-24J 100 kΩ   R20   R2				
R283			· ·	
R284	1			
R286		1		
R287   7010003530   RESISTOR   REJOUND   REJOUND   RESISTOR   REJOUND   REJOUND   RESISTOR   REJOUND   RESISTOR   REJOUND   REJOUND				R20 T-24J 47 kΩ
R288	R286	7010001150		1
R289	1			
R290         7010003280         RESISTOR         ELR20J 100 Ω           R291         7010003440         RESISTOR         ELR20J 2.2 kΩ           R292         7010003490         RESISTOR         ELR20J 2.2 kΩ           R293         7010004230         RESISTOR         R20J 2.2 kΩ           R295         7010004231         RESISTOR         R20J 2.2 kΩ           R296         7010003660         RESISTOR         R25X T-24J 10 kΩ           R298         7010003530         RESISTOR         ELR20J 100 kΩ           R299         7010001281         RESISTOR         ELR20J 100 kΩ           R299         7010003400         RESISTOR         RELR20J 100 kΩ           R300         7010003440         RESISTOR         RELR20J 2.2 kΩ           R301         7010003401         RESISTOR         RELR20J 1.5 kΩ           R302         7010003402         RESISTOR         ELR20J 1.5 kΩ           R304         7010003480         RESISTOR         ELR20J 100 kΩ           R305         7010003480         RESISTOR         RELR20J 4.7 kΩ           R306         7010004271         RESISTOR         RELR20J 4.7 kΩ           R307         7310003200         TRIMMER         EVN-2ACA00 B14 (103)				
R291				
R293         7010004230         RESISTOR         R20J 2.2 kΩ           R295         7010004321         RESISTOR         R20 T-24J 10 kΩ           R296         7010003680         RESISTOR         R25X T-24J 10 kΩ           R297         7010003630         RESISTOR         ELR20J 100 kΩ           R298         7010003530         RESISTOR         ELR20J 10 kΩ           R300         7010003440         RESISTOR         RESISTOR           R301         7010004071         RESISTOR         RELR20J 2.2 kΩ           R302         7010003420         RESISTOR         RELR20J 1.5 kΩ           R303         7010003280         RESISTOR         ELR20J 100 kΩ           R304         7010003420         RESISTOR         ELR20J 100 kΩ           R305         7010003480         RESISTOR         ELR20J 100 kΩ           R306         7010004271         RESISTOR         RELR20J 100 kΩ           R307         7310003200         TRIMMER         EVN-2ACA00 B14 (103)           R311         7010003401         RESISTOR         RELR20J 4.7 kΩ           R311         7010003500         RESISTOR         ELR20J 12 kΩ           R314         7010003401         RESISTOR         ELR20J 33 kΩ	1 '			
R295	1	1		
R296		1		
R297	1	1		
R298				
R300	1			ELR20J 10 kΩ
R301	R299			
R302         7010003420         RESISTOR         ELR20J 1.5 kΩ           R303         7010003280         RESISTOR         ELR20J 100 Ω           R304         7010003660         RESISTOR         ELR20J 100 kΩ           R305         7010003480         RESISTOR         ELR20J 4.7 kΩ           R306         7010004271         RESISTOR         RELR20J 4.7 kΩ           R307         7310003200         TRIMMER         EVN-2ACA00 B14 (103)           R308         701000461         RESISTOR         REVN-2ACA00 B14 (103)           R309         7010003600         RESISTOR         RELR20J 33 kΩ           R311         7010003540         RESISTOR         ELR20J 33 kΩ           R312         7010004031         RESISTOR         ELR20J 32 kΩ           R313         7010003360         RESISTOR         ELR20J 470 Ω           R314         7010003180         RESISTOR         ELR20J 470 Ω           R315         7510000320         THERMISTOR         ELR20J 3.9 kΩ           R316         7010003420         RESISTOR         ELR20J 3.9 kΩ           R321         7510000340         RESISTOR         ELR20J 3.7 kΩ           R322         7010003480         RESISTOR         ELR20J 3.7 kΩ	•			
R303         7010003280         RESISTOR         ELR20J 100 Ω           R304         7010003660         RESISTOR         ELR20J 100 kΩ           R305         7010003480         RESISTOR         ELR20J 4.7 kΩ           R306         7010004271         RESISTOR         R20 T-24J 4.7 kΩ           R307         7310003200         TRIMMER         EVN-2ACA00 B14 (103)           R308         701000461         RESISTOR         R20 T-24J 120 kΩ           R310         7010003600         RESISTOR         ELR20J 33 kΩ           R311         7010003540         RESISTOR         ELR20J 32 kΩ           R312         7010004031         RESISTOR         ELR20J 32 kΩ           R313         7010003360         RESISTOR         ELR20J 470 Ω           R314         7010003180         RESISTOR         ELR20J 470 Ω           R315         7510000320         THERMISTOR         ERT-D2ZGL 202S           R316         7010003420         RESISTOR         ELR20J 3.9 kΩ           R317         7010003450         RESISTOR         ELR20J 2.7 kΩ           R320         7010003480         RESISTOR         ELR20J 3.7 kΩ           R321         7010004530         RESISTOR         REJR20J 4.7 kΩ           <				
R304				
R306	R304	7010003660	RESISTOR	ELR20J 100 kΩ
R307   7310003200   TRIMMER   EVN-2ACA00 B14 (103)   R308   7010004461   RESISTOR   R20 T-24J 120 kΩ   R311   7010003540   RESISTOR   ELR20J 33 kΩ   RESISTOR   ELR20J 12 kΩ   R312   7010003360   RESISTOR   ELR20J 47 Ω   R313   7010003360   RESISTOR   ELR20J 470 Ω   R314   7010003180   RESISTOR   ELR20J 15 Ω   R315   7510000320   THERMISTOR   ELR20J 15 Ω   R316   7010003470   RESISTOR   ELR20J 3.9 kΩ   R317   7010003420   RESISTOR   ELR20J 3.9 kΩ   R319   7010003450   RESISTOR   ELR20J 2.7 kΩ   R320   7010003480   RESISTOR   ELR20J 4.7 kΩ   R321   7510000550   THERMISTOR   ELR20J 4.7 kΩ   R321   7010004530   RESISTOR   R20J 470 kΩ (#02)   R322   7010004531   RESISTOR   R20J 470 kΩ (#02)   R323   7010004410   RESISTOR   R20J 470 kΩ (#02)   R323   7010004411   RESISTOR   R20J 47 kΩ (#02)   R324   701000450   RESISTOR   R20J 47 kΩ (#02)   R325   7010003530   RESISTOR   R20J 47 kΩ (#02)   R20J 470 kΩ (#03)   R20J 4700003530   RESISTOR   R20J 47 kΩ (#03)   R20J 47 kΩ (#0				
R308	1			
R309   7010003600   RESISTOR   ELR20J 33 kΩ     R311   7010003540   RESISTOR   ELR20J 12 kΩ     R312   7010004031   RESISTOR   R20 T-24J 47 Ω     R313   7010003360   RESISTOR   ELR20J 470 Ω     R314   7010003180   RESISTOR   ELR20J 15 Ω     R315   7510000340   RESISTOR   ELR20J 3.9 kΩ     R317   7010003470   RESISTOR   ELR20J 3.9 kΩ     R319   7010003450   RESISTOR   ELR20J 1.5 kΩ     R320   7010003480   RESISTOR   ELR20J 2.7 kΩ     R321   7510000550   THERMISTOR   ELR20J 2.7 kΩ     R322   7010004530   RESISTOR   ELR20J 4.7 kΩ     R323   7010004531   RESISTOR   R20J 470 kΩ (#02)     R323   7010004410   RESISTOR   R20J 470 kΩ (#02)     R323   7010004411   RESISTOR   R20J 47 kΩ (#03)     R324   7010001460   RESISTOR   R20J 47 kΩ (#03)     R325   7010003530   RESISTOR   R25KJ 270 kΩ     R326   R20J 47 kΩ (#03)     R327   R20J 47 kΩ (#03)     R328   R20J 47 kΩ (#03)     R20J 47 k	1			
R312   7010004031   RESISTOR   R20 T-24J 47 Ω				
R313	R311	7010003540	RESISTOR	
R314	1			11
R315				
R316	I .			
R319	1			
R320				
R321		1.0.000		-
R322   7010004530   RESISTOR   R20J 470 kΩ (#02)   R322   7010004531   RESISTOR   R20 T-24J 470 kΩ (#03)   R323   7010004410   RESISTOR   R20J 47 kΩ (#02)   R323   7010004411   RESISTOR   R20 T-24J 47 kΩ (#03)   R324   7010001460   RESISTOR   R25XJ 270 kΩ   RESISTOR   R25XJ 270 kΩ   RESISTOR   RESISTOR   ELR20J 10 kΩ   RESISTOR   ELR20J 10 kΩ   RESISTOR   R20 T-24J 47 kΩ (#03)   R20 T				
R322   7010004531   RESISTOR   R20 T-24J 470 kΩ (#03)     R323   7010004410   RESISTOR   R20J 47 kΩ (#02)     R324   7010001460   RESISTOR   R25XJ 270 kΩ (#03)     R325   7010003530   RESISTOR   R25XJ 270 kΩ     R525   R525   R525   R525   R525     R526   R526   R525   R525     R527   R527   R525   R525     R527   R527   R525   R525     R527   R527   R525   R525     R527   R527   R525   R525     R528   R527   R525   R525     R528   R525   R525   R525     R528   R528   R528   R525     R528   R528   R528   R528     R528   R528   R528     R528   R528   R528   R528     R528   R528   R528   R528     R528   R528     R528   R528   R528     R528   R528   R528     R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R528     R528   R528     R528   R528   R528     R528   R528   R528     R528   R528   R5	1			
R323   7010004411   RESISTOR   R20 T-24J 47 kΩ (#03)   R324   7010001460   RESISTOR   R25XJ 270 kΩ   RESISTOR   RESISTOR   ELR20J 10 kΩ		7010004531		R20 T-24J 470 kΩ (#03)
R324 7010001460 RESISTOR R25XJ 270 kΩ R325 7010003530 RESISTOR ELR20J 10 kΩ  C1 4010000520 CERAMIC DD108 B 472K 50V C2 4040000260 BARRIER UZE 08X 104M C4 4010000270 CERAMIC DD104 SL 510J 50V C5 4010000340 CERAMIC DD105 SL 121J 50V	1			• • • •
R325 7010003530 RESISTOR ELR20J 10 kΩ  C1 4010000520 CERAMIC DD108 B 472K 50V C2 4040000260 BARRIER UZE 08X 104M C4 4010000270 CERAMIC DD104 SL 510J 50V C5 4010000340 CERAMIC DD105 SL 121J 50V	1			
C1 4010000520 CERAMIC DD108 B 472K 50V C2 4040000260 BARRIER UZE 08X 104M C4 4010000270 CERAMIC DD104 SL 510J 50V C5 4010000340 CERAMIC DD105 SL 121J 50V		f :		
C2 4040000260 BARRIER UZE 08X 104M C4 4010000270 CERAMIC DD104 SL 510J 50V C5 4010000340 CERAMIC DD105 SL 121J 50V				
C2 4040000260 BARRIER UZE 08X 104M C4 4010000270 CERAMIC DD104 SL 510J 50V C5 4010000340 CERAMIC DD105 SL 121J 50V	C1	4010000520	CERAMIC	DD108 B 472K 50V
C5 4010000340 CERAMIC DD105 SL 121J 50V	C2	4040000260	BARRIER	
1	1			
I UD   40 I UU U				
C7 4010000280 CERAMIC DD104 SL 560J 50V				
C8 4040000070 BARRIER UAT 04X 102K		1		
C9 4010004840 CERAMIC DD305 F 104Z 12V		ŧ i	CERAMIC	DD305 F 104Z 12V

REF. NO.	ORDER NO.	DI	ESCRIPTION
C10	4040000130	BARRIER	UAT 05X 332K
C11	4010000050	CERAMIC	DD104 SL 030C 50V
C12 C13	4020000730 4010000340	CYLINDER CERAMIC	UP050 SL 150J DD105 SL 121J 50V
C14	4010000520	CERAMIC	DD108 B 472K 50V
C15	4010000520	CERAMIC	DD108 B 472K 50V
C16	4010000020	CERAMIC	DD104 SL 010C 50V DD104 SL 100D 50V
C17 C18	4010000120 4010000100	CERAMIC CERAMIC	DD104 SL 100D 50V
C19	4010000020	CERAMIC	DD104 SL 010C 50V
C20	4010000500	CERAMIC	DD104 B 102K 50V
C21 C23	4010000330 4010000240	CERAMIC CERAMIC	DD105 SL 101J 50V DD104 SL 390J 50V
C25	4010000240	CERAMIC	DD104 B 102K 50V
C26	4010000100	CERAMIC	DD104 SL 080D 50V
C27	4040000150	BARRIER	UAT 05X 472K
C28 C29	4010000520 4010000500	CERAMIC CERAMIC	DD108 B 472K 50V DD104 B 102K 50V
C30	4010000520	CERAMIC	DD108 B 472K 50V
C31	4010000070	CERAMIC	DD104 SL 050C 50V
C32	4010000070	CERAMIC CERAMIC	DD104 SL 050C 50V DD104 SL 680J 50V
C33 C34	4010000300	CERAMIC	DD104 SL 010C 50V
C35	4040000250	BARRIER	UAT 08X 473M
C36	4040000250	BARRIER	UAT 08X 473M
C37 C38	4010000340 4020000030	CERAMIC CYLINDER	DD105 SL 121J 50V UP125 SL 2R2K
C39	4010000070	CERAMIC	DD104 SL 050C 50V
C40	4010004840	CERAMIC	DD305 F 104Z 12V
C42	4040000260	BARRIER	UZE 08X 104M
C43 C44	4010000520 4010000520	CERAMIC CERAMIC	DD108 B 472K 50V DD108 B 472K 50V
C46	4010000520	CERAMIC	DD108 B 472K 50V
C47	4010000200	CERAMIC	DD104 SL 270J 50V
C49	4010000520	CERAMIC BARRIER	DD108 B 472K 50V UAT 05X 472K
C50 C51	4040000150 4510003890	ELECTROLYTIC	16 MV 10 HW
C52	4010000520	CERAMIC	DD108 B 472K 50V
C53	4040000150	BARRIER	UAT 05X 472K
C54 C55	4040000150 4010000520	BARRIER CERAMIC	UAT 05X 472K DD108 B 472K 50V
C56	4010000520	CERAMIC	DD108 B 472K 50V
C58	4010000340	CERAMIC	DD105 SL 121J 50V
C59 C60	4020000620 4510003890	CYLINDER ELECTROLYTIC	UP050 SL 220J 16 MV 10 HW
C61	4510003030	ELECTROLYTIC	"
C62	4040000260	BARRIER	UZE 08X 104M
C64	4010000520 4010000520	CERAMIC	DD108 B 472K 50V DD108 B 472K 50V
C65 C66	4010000520	CERAMIC CERAMIC	DD108 B 472K 50V DD305 F 104Z 12V
C67	4040000150	BARRIER	UAT 05X 472K
C68	4040000150	BARRIER	UAT 05X 472K
C69 C70	4010004840 4040000250	CERAMIC BARRIER	DD305 F 104Z 12V UAT 08X 473M
C71	4040000250	BARRIER	UAT 08X 473M
C72	4010000330	CERAMIC	DD105 SL 101J 50V
C73 C74	4040000250 4040000250	BARRIER BARRIER	UAT 08X 473M UAT 08X 473M
C75	4040000250	BARRIER	UAT 08X 473M
C78	4010000350	CERAMIC	DD106 SL 151J 50V
C79	4010000120	CERAMIC	DD104 SL 100D 50V
C80 C81	4010000320 4040000260	CERAMIC BARRIER	DD104 SL 820J 50V UZE 08X 104M
C82	4010000120	CERAMIC	DD104 SL 100D 50V
C83	4010004840	CERAMIC	DD305 F 104Z 12V
C84 C85	4010004840	CERAMIC CERAMIC	DD305 F 104Z 12V DD104 B 102K 50V
C86	4040000260	BARRIER	UZE 08X 104M
C87	4010000100	CERAMIC	DD104 SL 080D 50V
C89	4010000100	CERAMIC	DD104 SL 080D 50V DD104 SL 080D 50V
C90 C91	4010000100 4040000260	CERAMIC BARRIER	UZE 08X 104M
C92	4010000520	CERAMIC	DD108 B 472K 50V
C93	4010000080	CERAMIC	DD104 SL 060D 50V
C94	4010000520	CERAMIC	DD108 B 472K 50V

C95	REF.	ORDER NO.	D	ESCRIPTION
C99	C95	4510003950	ELECTROLYTIC	50 MV R47 HW
C90			l .	
C100		L	1	
C109			1	
C109				
C110				
C113				
C114	1	1	l .	
C115			i i	
C117 4010000350 C118 4040000150 C118 4040000150 C119 4010000520 C120 4010004840 C121 4010000520 C122 4010000820 C123 4010000380 C123 4010000380 C124 4510003820 C125 4040000250 C126 40100004840 C127 4010000820 C128 4010000480 C129 4010000480 C120 4010000480 C121 4010000480 C121 4010000800 C122 4010000480 C123 4010000480 C124 4010000480 C127 4010000480 C128 4010000480 C129 4010000500 C130 4040000260 C130 4040000260 C133 4010000480 C133 4010000480 C133 4010000480 C133 4010000480 C133 4010000480 C133 4010000520 C133 4010000620 C133 4010000520 C133 4010000520 C133 4010000520 C133 4010000520 C134 4010000520 C139 4040000250 C140 4010000520 C140 4010000520 C140 4010000520 C141 4010000600 C141 4010000600 C142 4010000600 C143 4040000250 C144 4040000160 C145 4040000500 C146 4040000160 C147 4040000160 C148 4040000160 C149 4040000160 C149 4040000160 C149 4040000160 C140 4040000160 C141 4040000160 C141 4040000160 C142 4040000160 C143 4040000160 C144 4040000160 C144 4040000160 C144 4040000160 C145 4040000600 C144 4040000160 C144 4040000160 C144 4040000160 C145 4040000600 C146 4040000160 C147 4040000160 C148 4040000160 C149 4040000160 C149 4040000160 C140 4040000160 C141 4040000160 C141 4040000160 C142 4040000160 C144 4040000160 C145 4040000160 C146 4040000170 C151 4040000060 C166 4040000010 C167 4040000060 C168 4040000060 C169 4040000060 C160 4040000060 C161 4040000060 C161 4040000060 C161 4040000060 C162 4040000060 C163 4040000060 C164 4040000060 C165 4040000060 C166 4040000060 C166 4040000060 C167 4040000060 C168 4040000060 C169 4040000060 C169 4040000060 C160 4040000600 C160 4040000060 C160 4040000600 C160 40400006				
C118	ł .		· ·	
C119		_ ·		
C121				
C122		I .		= = = = :
C123				
C126			CERAMIC	DD107 SL 221J 50V
C126				
C127				
C130				
C132 4010000520 CERAMIC DD108 B 472K 50V C133 4010004840 CERAMIC DD305 F 104Z 12V C135 4040000260 BARRIER UZE 08X 104M S110000400 MYLAR 50 F2D 223J C137 4010000160 CERAMIC DD104 SL 180J 50V C139 4040000250 BARRIER UAT 08X 473M C140 4010000520 CERAMIC DD108 B 472K 50V C141 4010000520 CERAMIC DD108 B 472K 50V C141 4010000520 CERAMIC DD108 B 472K 50V C142 4010000080 CERAMIC DD108 B 472K 50V C143 4040000160 BARRIER UAT 04X 182K C144 4040000160 BARRIER UAT 05X 562K C146 4040000110 BARRIER UAT 06X 5562K C146 4040000110 BARRIER UAT 06X 153K C147 4040000110 BARRIER UAT 06X 153K C150 404000070 BARRIER UAT 04X 102K C151 404000070 BARRIER UAT 04X 102K C151 4040000260 BARRIER UAT 04X 102K C151 4040000260 BARRIER UAT 04X 102K C153 4040000260 BARRIER UAT 04X 102K C153 4040000260 BARRIER UAT 04X 102K C153 4040000260 BARRIER UAT 04X 152K C155 404000090 BARRIER UAT 04X 152K C155 4040000090 BARRIER UAT 04X 122K C156 404000090 BARRIER UAT 04X 122K C156 4040000090 BARRIER UAT 04X 122K C156 404000090 BARRIER UAT 04X 122K C156 4040000080 BARRIER UAT 04X 122K C156 4040000080 BARRIER UAT 04X 122K C160 404000010 CERAMIC DD107 SL 331J 50V C168 404000030 CERAMIC DD105 SL 121J 50V BARRIER UAT 04X 122K C166 404000010 BARRIER UAT 04X 122K C166 404000010 BARRIER UAT 04X 122K C166 4040000080 BARRIER UAT 05X 682K C166 4040000080 BARRIER UAT 05X 682K C166 4040000080 BARRIER UAT 05X 682K C166 4040000080 BARRIER UAT 05X 562K C171 4040000160 BARRIER UAT 05X 272K C177 4010000410 CERAMIC DD107 SL 331J 50V C178 4010000410 CERAMIC DD107 SL 331				
C133				
C136         4310000400         MYLAR         50 F2D 223J           C137         4010000160         CERAMIC         DD104 SL 180J 50V           C138         4010000520         CERAMIC         DD108 B 472K 50V           C140         4010000520         CERAMIC         DD108 B 472K 50V           C141         401000080         CERAMIC         DD108 B 472K 50V           C142         401000080         CERAMIC         DD108 B 472K 50V           C143         404000100         BARRIER         DD104 SL 060D 50V           C143         404000160         BARRIER         UAT 04X 182K           C144         4040000650         BARRIER         UAT 05X 562K           C145         4040000210         BARRIER         UAT 06X 153K           C147         4040000110         BARRIER         UAT 04X 222K           C148         4040000070         BARRIER         UAT 04X 102K           C150         4040000070         BARRIER         UAT 04X 102K           C151         4040000260         BARRIER         UAT 04X 102K           C153         4040000260         BARRIER         UZE 08X 104M           C154         4010000520         CERAMIC         DD108 B 472K 50V           C155		4010004840		
C137 4010000160 CERAMIC DD104 SL 180J 50V C138 4010000520 BARRIER UAT 08X 473M DD108 B 472K 50V DD108			=	
C139		-		
C140	C138	I .		
C141 4010000520 CERAMIC DD108 B 472K 50V C142 401000080 CERAMIC DD104 SL 060D 50V C143 4040000160 BARRIER UAT 04X 182K C144 404000650 BARRIER UAT 05X 562K C145 4040000210 BARRIER UAT 06X 153K C147 4040000110 BARRIER UAT 06X 153K C148 404000070 BARRIER UAT 04X 102K C149 402000630 CYLINDER UP050 B 101K C150 404000070 BARRIER UAT 04X 102K C151 4040000260 BARRIER UAT 04X 102K C152 4040000260 BARRIER UAT 04X 102K C153 4040000260 BARRIER UZE 08X 104M C152 4040000260 BARRIER UZE 08X 104M C153 404000090 BARRIER UAT 04X 152K C156 404000010 BARRIER UAT 04X 152K C157 4010000410 CERAMIC DD108 B 472K 50V C158 4040000260 BARRIER UAT 04X 222K C157 4010000410 CERAMIC DD107 SL 331J 50V C158 404000080 BARRIER UZE 08X 104M C159 404000080 BARRIER UZE 08X 104M C160 401000340 CERAMIC DD107 SL 331J 50V C161 404000080 BARRIER UAT 04X 122K C162 404000170 BARRIER UAT 04X 122K C163 404000080 BARRIER UAT 04X 122K C164 404000080 BARRIER UAT 04X 122K C165 4040000170 BARRIER UAT 04X 122K C166 4040000170 BARRIER UAT 04X 122K C167 401000040 CERAMIC DD105 SL 121J 50V C168 404000080 BARRIER UAT 06V 822K C164 404000080 BARRIER UAT 06V 822K C165 4040000250 BARRIER UAT 06V 822K C166 4040000260 BARRIER UAT 08X 473M C166 404000080 BARRIER UAT 08X 473M C166 4040000260 BARRIER UAT 08X 473M C166 404000080 BARRIER UAT 08X 473M C166 404000080 BARRIER UAT 08X 473M C167 401000040 CERAMIC DD109 SL 511J 50V C168 401000030 CERAMIC DD109 SL 471J 50V C169 401000040 CERAMIC DD107 SL 331J 50V C170 4040000260 BARRIER UAT 08X 473M C171 4040000260 BARRIER UAT 08X 473M C172 4040000460 BARRIER UAT 08X 473M C173 4040000260 BARRIER UAT 08X 473M C174 4040000260 BARRIER UAT 08X 473M C175 4010000410 CERAMIC DD107 SL 331J 50V C176 4010000410 CERAMIC DD107 SL 331J 50V C177 4010000410 CERAMIC DD107 SL 331J 50V C178 4010000410 CERAMIC DD107 SL 331J 50V C179 4040000120 BARRIER UAT 05X 272K				
C143				
C144				
C145			_	
C147				
C148				
C149         402000630         CYLINDER         UP050 B 101K           C150         404000070         BARRIER         UAT 04X 102K           C151         404000260         BARRIER         UZE 08X 104M           C152         404000260         BARRIER         UZE 08X 104M           C153         4040000260         BARRIER         UZE 08X 104M           C154         4010000520         CERAMIC         DD108 B 472K 50V           C155         404000090         BARRIER         UAT 04X 152K           C156         4040000110         BARRIER         UAT 04X 222K           C157         4010000410         CERAMIC         DD107 SL 331J 50V           C158         4040000260         BARRIER         UZE 08X 104M           C159         4040000340         CERAMIC         DD105 SL 121J 50V           C160         4010000340         CERAMIC         DD105 SL 121J 50V           C161         4040000170         BARRIER         UAT 04X 122K           C163         4040000170         BARRIER         UAT 06V 822K           C164         4040000260         BARRIER         UAT 08X 473M           C165         4040000260         BARRIER         UAT 08X 473M           C166         40				• • • • • • • • • • • • • • • • • • • •
C151         4040000260         BARRIER         UZE 08X 104M           C152         4040000260         BARRIER         UZE 08X 104M           C153         4040000260         BARRIER         UZE 08X 104M           C154         4010000520         CERAMIC         DD108 B 472K 50V           C155         404000010         BARRIER         UAT 04X 152K           C156         4040000110         BARRIER         UAT 04X 222K           C157         4010000410         CERAMIC         DD107 SL 331J 50V           C158         4040000260         BARRIER         UAT 04X 122K           C159         4040000260         BARRIER         UAT 04X 122K           C160         4010000340         CERAMIC         DD105 SL 121J 50V           C161         4040000340         BARRIER         UAT 04X 122K           C162         4040000380         BARRIER         UAT 05X 682K           C163         4040000380         BARRIER         UAT 04X 122K           C164         4040000260         BARRIER         UAT 08X 473M           C165         4040000260         BARRIER         UAT 08X 473M           C166         4010000440         CERAMIC         DD109 SL 511J 50V           C168 <td< td=""><td></td><td></td><td></td><td>UP050 B 101K</td></td<>				UP050 B 101K
C152 4040000260 BARRIER UZE 08X 104M C153 4040000260 BARRIER UZE 08X 104M C154 4010000520 CERAMIC DD108 B 472K 50V C155 4040000090 BARRIER UAT 04X 152K C156 4040000110 BARRIER UAT 04X 222K C157 4010000410 CERAMIC DD107 SL 331J 50V C158 4040000260 BARRIER UAT 04X 122K C159 404000080 BARRIER UAT 04X 122K C160 401000340 CERAMIC DD105 SL 121J 50V C161 404000080 BARRIER UAT 04X 122K C162 404000170 BARRIER UAT 04X 122K C163 4040000380 BARRIER UAT 05X 682K C164 404000080 BARRIER UAT 06V 822K C165 4040000250 BARRIER UAT 08X 473M C166 4040000260 BARRIER UAT 08X 473M C166 404000030 CERAMIC DD109 SL 511J 50V C168 4010000340 CERAMIC DD109 SL 511J 50V C169 401000030 CERAMIC DD109 SL 471J 50V C169 401000030 CERAMIC DD109 SL 471J 50V C170 404000080 BARRIER UAT 04X 122K C171 4040000160 BARRIER UAT 04X 122K C172 4040000260 BARRIER UAT 08X 473M C173 4040000260 BARRIER UAT 08X 473M C174 404000060 BARRIER UAT 08X 473M C175 4010000410 CERAMIC DD109 SL 471J 50V C176 4010000410 CERAMIC DD107 SL 331J 50V C177 4010000410 CERAMIC DD107 SL 331J 50V C178 4010000410 CERAMIC DD107 SL 331J 50V C179 4040000120 BARRIER UAT 05X 272K	l .			
C153         4040000260         BARRIER         UZE 08X 104M           C154         4010000520         CERAMIC         DD108 B 472K 50V           C155         404000090         BARRIER         UAT 04X 152K           C156         4040000110         BARRIER         UAT 04X 222K           C157         4010000410         CERAMIC         DD107 SL 331J 50V           C158         4040000260         BARRIER         UZE 08X 104M           C159         4040000340         BARRIER         UAT 04X 122K           C160         4010000340         CERAMIC         DD105 SL 121J 50V           C161         4040000380         BARRIER         UAT 04X 122K           C162         4040000170         BARRIER         UAT 05X 682K           C163         4040000380         BARRIER         UAT 06V 822K           C164         4040000250         BARRIER         UAT 08X 473M           C165         4040000260         BARRIER         UAT 08X 473M           C166         4040000330         CERAMIC         DD109 SL 511J 50V           C168         4010000330         CERAMIC         DD109 SL 471J 50V           C169         4010000430         CERAMIC         DD109 SL 471J 50V           C170		1		
C155	C153			
C156				
C158		1		
C159				
C160				
C162         4040000170         BARRIER         UAT 05X 682K           C163         4040000380         BARRIER         UAT 06V 822K           C164         4040000250         BARRIER         UAT 04X 122K           C165         4040000260         BARRIER         UAT 08X 473M           C166         4040000260         BARRIER         UZE 08X 104M           C167         4010000440         CERAMIC         DD109 SL 511J 50V           C168         4010000330         CERAMIC         DD109 SL 471J 50V           C170         4040000430         CERAMIC         DD109 SL 471J 50V           C170         404000080         BARRIER         UAT 04X 122K           C171         4040000160         BARRIER         UAT 05X 562K           C172         4040000260         BARRIER         UAT 08X 473M           C173         4040000260         BARRIER         UZE 08X 104M           C174         4040000260         BARRIER         UZE 08X 104M           C175         4010000410         CERAMIC         DD107 SL 331J 50V           C176         4010000410         CERAMIC         DD107 SL 331J 50V           C178         4010000410         CERAMIC         DD107 SL 331J 50V           C179		4010000340	CERAMIC	DD105 SL 121J 50V
C163				
C164				
C166	C164	4040000080	BARRIER	UAT 04X 122K
C167				
C168				
C170	C168	4010000330	CERAMIC	DD105 SL 101J 50V
C171	ł .			
C172				
C174	C172	4040000460	BARRIER	
C175				
C176	i	i i		
C178	C176	4010000270	CERAMIC	
C179 4040000120 BARRIER UAT 05X 272K				
C180 4010000410 CERAMIC DD107 SL 331J 50V	F .	ľ		
	C180	4010000410	CERAMIC	DD107 SL 331J 50V

REF. NO.	ORDER NO.	D	ESCRIPTION
C181	4040000250	BARRIER	UAT 08X 473M
C182	4040000260	BARRIER	UZE 08X 104M
C183 C184	4010000410	CERAMIC	DD107 SL 331J 50V DD104 SL 470J 50V
C185	4010000280	CERAMIC	DD107 SL 221J 50V
C186	4010000380	CERAMIC	DD107 SL 221J 50V
C187	4040000100	BARRIER	UAT 04X 182K
C188	4010000370	CERAMIC	DD106 SL 201J 50V UAT 08X 473M
C189 C190	4040000250 4040000260	BARRIER BARRIER	UZE 08X 104M
C191	4010000380	CERAMIC	DD107 SL 221J 50V
C192	4010000160	CERAMIC	DD104 SL 180J 50V
C193	4010000330 4010000380	CERAMIC CERAMIC	DD105 SL 101J 50V DD107 SL 221J 50V
C194 C195	4040000080	BARRIER	UAT 04X 122K
C196	4010000350	CERAMIC	DD106 SL 151J 50V
C197	4040000250	BARRIER	UAT 08X 473M
C198	4040000260	BARRIER CERAMIC	UZE 08X 104M DD104 SL 330J 50V
C199 C200	4010000220	CERAMIC	DD104 GL 0000 50V DD105 SL 121J 50V
C201	4010000240	CERAMIC	DD104 SL 390J 50V
C202	4010000300	CERAMIC	DD104 SL 680J 50V
C203 C204	4010000340 4040000460	CERAMIC BARRIER	DD105 SL 121J 50V RAU 08SA 821K
C205	4010000330	CERAMIC	DD105 SL 101J 50V
C206	4040000250	BARRIER	UAT 08X 473M
C207	4040000150	BARRIER	UAT 05X 472K
C208 C209	4530000350 4010000520	ARRAY CERAMIC	B8ZC0111-32N DD108 B 472K 50V
C210	4510004590	ELECTROLYTIC	16 MV 470 HC
C211	4040000260	BARRIER	UZE 08X 104M
C212	4510004990	ELECTROLYTIC	16 MV 100 HC 16 MV 1000 HC
C213 C214	4510004600 4510004990	ELECTROLYTIC   ELECTROLYTIC	16 MV 1000 HC
C215	4510003910	ELECTROLYTIC	16 MV 47 HW
C216	4040000250	BARRIER	UAT 08X 473M
C217	4510003820	ELECTROLYTIC   ELECTROLYTIC	50 MV R22 SW 16 MV 100 HC
C218 C219	4510004990 4040000110	BARRIER	UAT 04X 222K
C220	4310000400	MYLAR	50 F2D 223J
C221	4510003890	ELECTROLYTIC	16 MV 10 HW
C222 C223	4510003910 4510003850	ELECTROLYTIC   ELECTROLYTIC	16 MV 47 HW 50 MV 2R2 SW
G224	4040000150	BARRIER	UAT 05X 472K
C225	4510003950	ELECTROLYTIC	50 MV R47 HW
C226 C227	4040000210 4010000520	BARRIER CERAMIC	UAT 06X 153K DD108 B 472K 50V
C227	4040000150	BARRIER	UAT 05X 472K
C229	4040000150	BARRIER	UAT 05X 472K
C230	4010000840	CERAMIC	DD105 CH 390J 50V
C231 C232	4010001020 4010001020	CERAMIC CERAMIC	DD111 CH 221J 50V DD111 CH 221J 50V
C233	4040000250	BARRIER	UAT 08X 473M
C234	4010000520	CERAMIC	DD108 B 472K 50V
C235	4010000520	CERAMIC	DD108 B 472K 50V
C236 C237	4010004840 4010000180	CERAMIC CERAMIC	DD305 F 104Z 12V DD104 SL 220J 50V
C238	4010000520	CERAMIC	DD108 B 472K 50V
C239	4040000150	BARRIER	UAT 05X 472K
C240	4010000520 4010000180	CERAMIC	DD108 B 472K 50V DD104 SL 220J 50V
C241 C242	4310000180	MYLAR	50 F2D 223J
C243	4310000400	MYLAR	50 F2D 223J
C244	4310000400	MYLAR	50 F2D 223J
C245 C246	4510003890 4510004350	ELECTROLYTIC ELECTROLYTIC	16 MV 10 HW 16 MV 22 SW
C247	4040000150	BARRIER	UAT 05X 472K
C248	4510003910	ELECTROLYTIC	16 MV 47 HW
C249	4510003840	ELECTROLYTIC	50 MV 1 SW 50 MV 2R2 SW
C250 C251	4510003850 4510003840	ELECTROLYTIC ELECTROLYTIC	50 MV 2H2 SW 50 MV 1 SW
C252	4510003840	ELECTROLYTIC	50 MV 1 SW
C253	4010000520	CERAMIC	DD108 B 472K 50V
C254	4010000520 4040000150	CERAMIC BARRIER	DD108 B 472K 50V UAT 05X 472K
C255	4040000150	DAULIEU	UAT UUA 4/2N

Ī	REF.	ORDER		ESCRIPTION
ŀ	NO.	NO.	וע	
	C256	4010000520	CERAMIC	DD108 B 472K 50V DD108 B 472K 50V
	C257 C258	4010000520 4010000330	CERAMIC CERAMIC	DD108 B 472K 50V DD105 SL 101J 50V
	C259	4010000530	CERAMIC	DD108 B 472K 50V
ı	C260	4010004840	CERAMIC	DD305 F 104Z 12V
ı	C261	4510004130	ELECTROLYTIC	16 MV 33 HW
١	C262	4040000250	BARRIER	UAT 08X 473M
ı	C263 C264	4010000500 4510003960	CERAMIC ELECTROLYTIC	DD104 B 102K 50V 50 MV 1 HW
١	C265	4040000190	BARRIER	UAT 05X 103K
1	C266	4040000190	BARRIER	UAT 05X 103K
ı	C267	4510003830	ELECTROLYTIC	50 MV R47 SW
ı	C268 C269	4510003830 4510003910	ELECTROLYTIC ELECTROLYTIC	50 MV R47 SW 16 MV 47 HW
ı	C270	4040000260	BARRIER	UZE 08X 104M
ı	C271	4510003910	ELECTROLYTIC	16 MV 47 HW
١	C274	4010000460	CERAMIC	DD104 B 471K 50V
ı	C279	4040000150 4040000150	BARRIER BARRIER	UAT 05X 472K UAT 05X 472K
ı	C280 C281	4020000680	CYLINDER	UP050 SL 180J
ı	C283	4510003840	ELECTROLYTIC	50 MV 1 SW
	C284	4010000520	CERAMIC	DD108 B 472K 50V
-	C285	4010000520	CERAMIC CERAMIC	DD108 B 472K 50V DD108 B 472K 50V
	C286 C287	4010000520 4010000520	CERAMIC	DD108 B 472K 50V
	C288	4010000520	CERAMIC	DD108 B 472K 50V
	C289	4010000520	CERAMIC	DD108 B 472K 50V
1	C290	4010000520	CERAMIC	DD108 B 472K 50V DD109 SL 471J 50V
1	C291 C292	4010000430 4010000520	CERAMIC CERAMIC	DD109 SL 4713 50V DD108 B 472K 50V
١	C293	4510003820	ELECTROLYTIC	50 MV R22 SW
	C294	4610001200	TRIMMER	CVSSE3001
ı	C295	4010000500	CERAMIC BARRIER	DD104 B 102K 50V UZE 08X 104M
I	C296 C297	4040000260 4040000250	BARRIER	UAT 08X 473M
١	C298	4010004840	CERAMIC	DD305 F 104Z 12V
١	C299	4040000260	BARRIER	UZE 08X 104M
l	C300 C301	4040000250 4010000520	BARRIER CERAMIC	UAT 08X 473M DD108 B 472K 50V
1	C302	4010000520	CERAMIC	DD108 B 472K 50V
	C303	4010000940	CERAMIC	DD107 CH 101J 50V
	C304	4010004840	CERAMIC	DD305 F 104Z 12V
	C305 C306	4010000940 4010000060	CERAMIC CERAMIC	DD107 CH 101J 50V DD104 SL 040C 50V
	C307	4010000350	CERAMIC	DD106 SL 151J 50V
	C308	4010000520	CERAMIC	DD108 B 472K 50V
	C309	4010004840	CERAMIC	DD305 F 104Z 12V DD305 F 104Z 12V
	C310 C311	4010004840 4010004840	CERAMIC CERAMIC	DD305 F 104Z 12V
1	C312	4040000440	BARRIER	RAU 06SA 561K
I	C314	4010004840	CERAMIC	DD305 F 104Z 12V
I	C315	4010004840	CERAMIC	DD305 F 104Z 12V DD106 SL 151J 50V
1	C316 C317	4010000350 4010000350	CERAMIC CERAMIC	DD106 SL 151J 50V
1	C318	4040000260	BARRIER	UZE 08X 104M
1	C319	4010000500	CERAMIC	DD104 B 102K 50V
1	C320	4010000500	CERAMIC BARRIER	DD104 B 102K 50V UZE 08X 104M
1	C321 C322	4040000260 4310000420	MYLAR	50 F2D 333J
1	C323	4040000260	BARRIER	UZE 08X 104M
1	C324	4010000500	CERAMIC	DD104 B 102K 50V
I	C325 C326	4010000520 4040000260	CERAMIC BARRIER	DD108 B 472K 50V UZE 08X 104M
	C326	4010000500	CERAMIC	DD104 B 102K 50V
١	C328	4010000520	CERAMIC	DD108 B 472K 50V
١	C329	4010000500	CERAMIC	DD104 B 102K 50V
	C330	4040000150	BARRIER CERAMIC	UAT 05X 472K DD108 B 472K 50V
	C331 C333	4010000520 4040000260	BARRIER	UZE 08X 104M
١	C334	4010000330	CERAMIC	DD105 SL 101J 50V
	C335	4510005260	ELECTROLYTIC	25 MV 10 HW
	C336 C337	4010000260 4040000250	CERAMIC BARRIER	DD104 SL 470J 50V UAT 08X 473M
	J001	0-10000200		<del></del>
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REF. NO.	ORDER NO.	D	ESCRIPTION
S2	2230000700	SWITCH	SPPJ31309A [BK IN]
RL1	6330000180	RELAY	MZ-12HG
RL2	6330000560	RELAY	OUC-SH-114D
J1	6510010030	CONNECTOR	SD-52011-1210
J2 J3	6510003410 6510014290	CONNECTOR	B05B-EH-S SD-52011-0910
J4	6510003250	CONNECTOR	TMP-J01X-A2
J5 J6	6510003250 6510003430	CONNECTOR	TMP-J01X-A2 B07B-EH-S
J7	6510003430	CONNECTOR	B05B-EH-S
J8	6510003450	CONNECTOR	B09B-EH-S B05B-EH-S
J9 J10	6510003410 6510003440	CONNECTOR	B08B-EH-S
J11	6510003250	CONNECTOR	TMP-J01X-A2
J12 J13	6510003250 6510003390	CONNECTOR	TMP-J01X-A2 B03B-EH-S
J14	6450000140	CONNECTOR	HSJ0807-01-010 [EXT SP]
J15 J16	6450000180 6450000150	CONNECTOR	HLJ4306-01-3000 [KEY] JPJ2545-01-510 [SEND]
J17	6450000150	CONNECTOR	JPJ2545-01-510 [ALC]
J18	6450000160	CONNECTOR	TCS4470-01-1111 [ACC (2)]
J19 J20	6450000170 6510001110	CONNECTOR	TCS4480-01-1111 [ACC (1)] 3024-10CH
J21	6510002250	CONNECTOR	TL25P03V1
J22 J24	6510002250 6510013780	CONNECTOR	TL25P03V1 PDK-2081-65
"-"	0010010100	COMMEDIAN	, 51, 200, 00
W30	6910001020	JUMPER	IPS-1041-2
W32 W33	6910001030 6910001030	JUMPER JUMPER	IPS-1041-4 IPS-1041-4
W34	6910001030	JUMPER	IPS-1041-4
W35	6910001020	JUMPER JUMPER	IPS-1041-2 IPS-1041-2
W36 W37	6910001020 6910001030	JUMPER	IPS-1041-4
W39	6910001020	JUMPER	IPS-1041-2
W40 W41	6910001030 6910001020	JUMPER JUMPER	IPS-1041-4 IPS-1041-2
W42	6910001020	JUMPER	IPS-1041-2
W45 W46	6910001020 6910001030	JUMPER JUMPER	IPS-1041-2 IPS-1041-4
W47	6910001020	JUMPER	IPS-1041-2
W50 W52	6910001030 6910001030	JUMPER JUMPER	IPS-1041-4 IPS-1041-4
W53	6910001030	JUMPER	IPS-1041-4
W54	6910001030	JUMPER	IPS-1041-4
W55 W56	6910001020 6910001020	JUMPER JUMPER	IPS-1041-2 IPS-1041-2
W57	6910001030	JUMPER	IPS-1041-4
W58 W59	6910001030 6910001030	JUMPER JUMPER	IPS-1041-4 IPS-1041-4
W60	6910001020	JUMPER	IPS-1041-2
W61 W62	6910001020 6910001020	JUMPER JUMPER	IPS-1041-2 IPS-1041-2
W63	6910001020	JUMPER	IPS-1041-2
W64	6910001020 6910001020	JUMPER JUMPER	IPS-1041-2 IPS-1041-2
W65 W69	6910001020	JUMPER	IPS-1041-4
W71	6910001030	JUMPER	IPS-1041-4
W72 W73	6910001020 6910001020	JUMPER JUMPER	IPS-1041-2 IPS-1041-2
W74	6910001020	JUMPER	IPS-1041-2
W75 W76	6910001020 7120000020	JUMPER JUMPER	IPS-1041-2 JPW 02H
W77	6910001020	JUMPER	IPS-1041-2
W78	7120000020 6910001020	JUMPER JUMPER	JPW 02H IPS-1041-2
W79 W80	6910001020	JUMPER	IPS-1041-4
W81	6910001020	JUMPER	IPS-1041-2 IPS-1041-2
W82 W83	6910001020 6910001020	JUMPER JUMPER	IPS-1041-2 IPS-1041-2

W84         6910001020         JUMPER         IPS-1041-2           W86         6910001030         JUMPER         IPS-1041-4           W86         6910001030         JUMPER         IPS-1041-2           W87         6910001020         JUMPER         IPS-1041-2           W88         6910001020         JUMPER         IPS-1041-2           W89         6910001020         JUMPER         IPS-1041-2           W91         8910001020         JUMPER         IPS-1041-2           W92         6910001020         JUMPER         IPS-1041-2           W93         6910001020         JUMPER         IPS-1041-2           W94         6910001020         JUMPER         IPS-1041-2           W95         6910001020         JUMPER         IPS-1041-2           W96         6910001020         JUMPER         IPS-1041-2           W97         691001020         JUMPER         IPS-1041-2           W98         6910001020         JUMPER         IPS-1041-2           W100         6910001020         JUMPER         IPS-1041-2           W101         6910001020         JUMPER         IPS-1041-2           W102         6910001020         JUMPER         IPS-1041-2	REF. NO.	ORDER NO.		DESCRIPTION
W86         6910001030         JUMPER         IPS-1041-4           W87         6910001020         JUMPER         IPS-1041-2           W88         6910001030         JUMPER         IPS-1041-2           W89         6910001020         JUMPER         IPS-1041-2           W91         6910001020         JUMPER         IPS-1041-2           W93         6910001020         JUMPER         IPS-1041-2           W93         6910001020         JUMPER         IPS-1041-2           W94         6910001020         JUMPER         IPS-1041-2           W95         6910001030         JUMPER         IPS-1041-2           W96         6910001020         JUMPER         IPS-1041-2           W96         6910001030         JUMPER         IPS-1041-2           W97         6910001030         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-2           W102         6910001030         JUMPER         IPS-1041-2           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4	W84	6910001020	JUMPER	
W87         6910001020         JUMPER         IPS-1041-2           W88         6910001020         JUMPER         IPS-1041-2           W89         6910001020         JUMPER         IPS-1041-2           W91         6910001020         JUMPER         IPS-1041-2           W91         6910001020         JUMPER         IPS-1041-2           W92         6910001020         JUMPER         IPS-1041-2           W93         6910001020         JUMPER         IPS-1041-2           W94         6910001020         JUMPER         IPS-1041-2           W95         6910001020         JUMPER         IPS-1041-2           W96         6910001020         JUMPER         IPS-1041-2           W98         6910001020         JUMPER         IPS-1041-2           W99         6910001030         JUMPER         IPS-1041-2           W100         6910001030         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-2           W102         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4	1			
W88         6910001020         JUMPER         IPS-1041-2           W89         6910001030         JUMPER         IPS-1041-2           W90         6910001020         JUMPER         IPS-1041-2           W91         6910001020         JUMPER         IPS-1041-2           W92         6910001020         JUMPER         IPS-1041-2           W93         6910001020         JUMPER         IPS-1041-2           W94         6910001030         JUMPER         IPS-1041-2           W95         6910001030         JUMPER         IPS-1041-2           W96         6910001030         JUMPER         IPS-1041-2           W98         6910001030         JUMPER         IPS-1041-2           W98         6910001030         JUMPER         IPS-1041-2           W99         6910001030         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-3           W102         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4	ı	1		
W90         8910001020         JUMPER         IPS-1041-2           W91         8910001020         JUMPER         IPS-1041-2           W92         8910001020         JUMPER         IPS-1041-2           W93         8910001020         JUMPER         IPS-1041-2           W94         6910001020         JUMPER         IPS-1041-2           W95         6910001020         JUMPER         IPS-1041-2           W96         6910001020         JUMPER         IPS-1041-2           W97         8910001020         JUMPER         IPS-1041-2           W98         6910001020         JUMPER         IPS-1041-2           W99         6910001020         JUMPER         IPS-1041-2           W100         6910001030         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4 <td>i</td> <td>1</td> <td>1</td> <td></td>	i	1	1	
W91         8910001020         JUMPER         IPS-1041-2           W92         6910001020         JUMPER         IPS-1041-2           W93         6910001020         JUMPER         IPS-1041-2           W94         6910001020         JUMPER         IPS-1041-2           W95         6910001020         JUMPER         IPS-1041-2           W96         6910001020         JUMPER         IPS-1041-2           W98         6910001020         JUMPER         IPS-1041-2           W99         6910001020         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-2           W102         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W108         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4     <				
W92         8910001020         JUMPER         IPS-1041-2           W93         6910001020         JUMPER         IPS-1041-2           W94         6910001020         JUMPER         IPS-1041-2           W95         6910001020         JUMPER         IPS-1041-2           W96         6910001020         JUMPER         IPS-1041-2           W97         6910001020         JUMPER         IPS-1041-2           W98         6910001020         JUMPER         IPS-1041-2           W100         6910001030         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-4           W102         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W112         6910001030         JUMPER         IPS-1041-4	1		1	
W94         6910001020         JUMPER         IPS-1041-2           W95         6910001020         JUMPER         IPS-1041-2           W96         6910001020         JUMPER         IPS-1041-2           W97         6910001020         JUMPER         IPS-1041-2           W98         6910001020         JUMPER         IPS-1041-2           W99         6910001030         JUMPER         IPS-1041-2           W100         6910001030         JUMPER         IPS-1041-4           W1012         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W108         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-2           W111         6910001030         JUMPER         IPS-1041-2           W113         6910001030         JUMPER         IPS-1041-4		1	1	
W35         6910001020         JUMPER         IPS-1041-2           W36         6910001030         JUMPER         IPS-1041-2           W37         6910001020         JUMPER         IPS-1041-2           W38         6910001020         JUMPER         IPS-1041-2           W39         6910001030         JUMPER         IPS-1041-2           W100         6910001030         JUMPER         IPS-1041-4           W101         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W108         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-2           W111         6910001030         JUMPER         IPS-1041-2           W111         6910001030         JUMPER         IPS-1041-2           W114         6910001030         JUMPER         IPS-1041-2		1		
W96         6910001030         JUMPER         IPS-1041-2           W97         6910001020         JUMPER         IPS-1041-2           W99         6910001020         JUMPER         IPS-1041-2           W100         6910001030         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-4           W102         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W108         6910001030         JUMPER         IPS-1041-4           W109         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W115         6910001030         JUMPER         IPS-1041-4		1		
W98         6910001020         JUMPER         IPS-1041-2           W99         6910001020         JUMPER         IPS-1041-2           W100         6910001030         JUMPER         IPS-1041-4           W102         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-2           W108         6910001030         JUMPER         IPS-1041-2           W108         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-4           W115         6910001030         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2		1		
W39         6910001020         JUMPER         IPS-1041-2           W100         6910001020         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W108         6910001030         JUMPER         IPS-1041-2           W108         6910001030         JUMPER         IPS-1041-4           W109         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W112         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W116         6910001030         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2 <td>ı</td> <td>1</td> <td></td> <td></td>	ı	1		
W100         6910001020         JUMPER         IPS-1041-2           W101         6910001030         JUMPER         IPS-1041-4           W102         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W108         6910001030         JUMPER         IPS-1041-4           W109         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W112         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-4           W115         6910001030         JUMPER         IPS-1041-2           W116         6910001030         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2 <td></td> <td></td> <td></td> <td></td>				
W102         6910001030         JUMPER         IPS-1041-4           W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W109         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-4           W115         6910001020         JUMPER         IPS-1041-2           W116         6910001030         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2 <td></td> <td>6910001020</td> <td>JUMPER</td> <td></td>		6910001020	JUMPER	
W103         6910001030         JUMPER         IPS-1041-4           W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001030         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W109         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W112         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-4           W115         6910001020         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W117         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2 <td></td> <td></td> <td></td> <td></td>				
W104         6910001030         JUMPER         IPS-1041-4           W105         6910001030         JUMPER         IPS-1041-4           W106         6910001020         JUMPER         IPS-1041-4           W107         6910001030         JUMPER         IPS-1041-4           W108         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W112         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-2           W115         6910001020         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W122         6910001020         JUMPER         IPS-1041-2 <td></td> <td></td> <td></td> <td></td>				
W106         6910001030         JUMPER         IPS-1041-4           W107         6910001020         JUMPER         IPS-1041-2           W108         6910001030         JUMPER         IPS-1041-4           W109         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-2           W111         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-4           W115         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W122         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2 <td></td> <td>6910001030</td> <td></td> <td></td>		6910001030		
W107         6910001020         JUMPER         IPS-1041-2           W108         6910001030         JUMPER         IPS-1041-4           W109         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-4           W115         6910001020         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001030         JUMPER         IPS-1041-2           W122         6910001030         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2 <td></td> <td></td> <td></td> <td></td>				
W108         6910001030         JUMPER         IPS-1041-4           W109         6910001030         JUMPER         IPS-1041-4           W110         6910001030         JUMPER         IPS-1041-4           W111         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-2           W115         6910001020         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W117         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W122         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2 <td>•</td> <td></td> <td></td> <td></td>	•			
W110         6910001020         JUMPER         IPS-1041-2           W111         6910001030         JUMPER         IPS-1041-4           W112         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W117         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W122         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W133         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2 <td>1</td> <td></td> <td></td> <td></td>	1			
W111         6910001030         JUMPER         IPS-1041-4           W112         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001030         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W117         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W133         6910001030         JUMPER         IPS-1041-4 <td>i .</td> <td></td> <td></td> <td></td>	i .			
W112         6910001030         JUMPER         IPS-1041-4           W113         6910001030         JUMPER         IPS-1041-4           W114         6910001020         JUMPER         IPS-1041-4           W115         6910001020         JUMPER         IPS-1041-2           W116         6910001020         JUMPER         IPS-1041-2           W117         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W122         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W133         6910001020         JUMPER         IPS-1041-2           W133         6910001030         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-4 <td>ı</td> <td></td> <td></td> <td></td>	ı			
W114         6910001030         JUMPER         IPS-1041-4           W115         6910001020         JUMPER         IPS-1041-2           W116         6910001030         JUMPER         IPS-1041-2           W117         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W133         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-4           W136         6910001030         JUMPER         IPS-1041-4           W137         6910001030         JUMPER         IPS-1041-4 <td>•</td> <td></td> <td>1</td> <td>IPS-1041-4</td>	•		1	IPS-1041-4
W115         6910001020         JUMPER         IPS-1041-2           W116         6910001030         JUMPER         IPS-1041-4           W117         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W133         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W135         6910001030         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-4           W142         6910001030         JUMPER         IPS-1041-2 <td>l .</td> <td></td> <td></td> <td></td>	l .			
W116         6910001030         JUMPER         IPS-1041-4           W117         6910001020         JUMPER         IPS-1041-2           W118         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001030         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W127         6910001020         JUMPER         IPS-1041-2           W136         6910001020         JUMPER         IPS-1041-2           W133         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W135         6910001030         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-4           W142         6910001030         JUMPER         IPS-1041-4 <td></td> <td></td> <td></td> <td></td>				
W118         6910001020         JUMPER         IPS-1041-2           W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-4           W122         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W136         6910001020         JUMPER         IPS-1041-2           W133         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W135         6910001030         JUMPER         IPS-1041-4           W136         6910001030         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-2           W144         6910001030         JUMPER         IPS-1041-2           W145         6910001030         JUMPER         IPS-1041-2           W146         6910001030         JUMPER         IPS-1041-2 <td>8</td> <td>1</td> <td></td> <td></td>	8	1		
W119         6910001020         JUMPER         IPS-1041-2           W120         6910001020         JUMPER         IPS-1041-2           W121         6910001020         JUMPER         IPS-1041-2           W122         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W131         6910001020         JUMPER         IPS-1041-2           W133         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W135         6910001030         JUMPER         IPS-1041-4           W136         6910001030         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-2           W142         6910001030         JUMPER         IPS-1041-2           W143         6910001030         JUMPER         IPS-1041-2           W145         6910001030         JUMPER         IPS-1041-2           W146         6910001030         JUMPER         IPS-1041-2 <td>3</td> <td></td> <td></td> <td></td>	3			
W120         6910001020         JUMPER         IPS-1041-2           W121         6910001030         JUMPER         IPS-1041-4           W122         6910001020         JUMPER         IPS-1041-2           W123         6910001030         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W136         6910001020         JUMPER         IPS-1041-2           W133         6910001030         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W135         6910001030         JUMPER         IPS-1041-4           W136         6910001030         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-2           W142         6910001030         JUMPER         IPS-1041-2           W143         6910001030         JUMPER         IPS-1041-2           W144         6910001020         JUMPER         IPS-1041-2           W145         6910001030         JUMPER         IPS-1041-2           W146         6910001030         JUMPER         IPS-1041-2 <td></td> <td></td> <td></td> <td></td>				
W122         6910001020         JUMPER         IPS-1041-2           W123         6910001020         JUMPER         IPS-1041-2           W124         6910001020         JUMPER         IPS-1041-2           W125         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W131         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-2           W135         6910001030         JUMPER         IPS-1041-4           W136         6910001030         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-2           W142         6910001030         JUMPER         IPS-1041-2           W143         6910001030         JUMPER         IPS-1041-2           W144         6910001020         JUMPER         IPS-1041-2           W145         6910001030         JUMPER         IPS-1041-2           W146         6910001030         JUMPER         IPS-1041-2           W147         6910001030         JUMPER         IPS-1041-2           W150         6910001030         JUMPER         IPS-1041-2 <td></td> <td></td> <td></td> <td></td>				
W123         6910001020         JUMPER         IPS-1041-2           W124         6910001030         JUMPER         IPS-1041-4           W125         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W131         6910001020         JUMPER         IPS-1041-2           W133         6910001030         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-4           W136         6910001030         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-2           W142         6910001030         JUMPER         IPS-1041-2           W143         6910001030         JUMPER         IPS-1041-2           W144         6910001020         JUMPER         IPS-1041-2           W145         6910001020         JUMPER         IPS-1041-2           W146         6910001030         JUMPER         IPS-1041-2           W148         6910001030         JUMPER         IPS-1041-4           W149         6910001030         JUMPER         IPS-1041-2           W150         6910001030         JUMPER         IPS-1041-2 <td></td> <td>1</td> <td>1</td> <td></td>		1	1	
W124         6910001030         JUMPER         IPS-1041-4           W125         6910001020         JUMPER         IPS-1041-2           W126         6910001020         JUMPER         IPS-1041-2           W131         6910001020         JUMPER         IPS-1041-2           W133         6910001030         JUMPER         IPS-1041-4           W135         6910001030         JUMPER         IPS-1041-4           W136         6910001020         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-2           W142         6910001030         JUMPER         IPS-1041-4           W143         6910001030         JUMPER         IPS-1041-2           W144         6910001030         JUMPER         IPS-1041-2           W145         6910001020         JUMPER         IPS-1041-2           W146         6910001030         JUMPER         IPS-1041-2           W148         6910001030         JUMPER         IPS-1041-4           W149         6910001030         JUMPER         IPS-1041-4           W149         6910001020         JUMPER         IPS-1041-2           W150         6910001020         JUMPER         IPS-1041-2 <td>1</td> <td></td> <td></td> <td></td>	1			
W126         6910001020         JUMPER         IPS-1041-2           W131         6910001020         JUMPER         IPS-1041-2           W133         6910001030         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-4           W135         6910001030         JUMPER         IPS-1041-4           W140         6910001030         JUMPER         IPS-1041-2           W142         6910001030         JUMPER         IPS-1041-2           W143         6910001030         JUMPER         IPS-1041-4           W144         6910001020         JUMPER         IPS-1041-2           W145         6910001020         JUMPER         IPS-1041-2           W146         6910001030         JUMPER         IPS-1041-2           W147         6910001030         JUMPER         IPS-1041-2           W148         6910001030         JUMPER         IPS-1041-4           W149         6910001020         JUMPER         IPS-1041-2           W150         6910001020         JUMPER         IPS-1041-2           W151         6910001020         JUMPER         IPS-1041-2           W153         6910001030         JUMPER         IPS-1041-2 <td></td> <td></td> <td></td> <td>IPS-1041-4</td>				IPS-1041-4
W131 6910001020 JUMPER IPS-1041-2 W133 6910001030 JUMPER IPS-1041-2 W134 6910001030 JUMPER IPS-1041-4 W135 6910001030 JUMPER IPS-1041-4 W136 6910001030 JUMPER IPS-1041-4 W140 6910001020 JUMPER IPS-1041-2 W142 6910001030 JUMPER IPS-1041-4 W143 6910001030 JUMPER IPS-1041-4 W144 6910001020 JUMPER IPS-1041-2 W145 6910001030 JUMPER IPS-1041-2 W146 6910001030 JUMPER IPS-1041-2 W147 6910001030 JUMPER IPS-1041-4 W148 6910001030 JUMPER IPS-1041-4 W149 6910001030 JUMPER IPS-1041-4 W149 6910001030 JUMPER IPS-1041-2 W150 6910001030 JUMPER IPS-1041-2 W151 6910001030 JUMPER IPS-1041-2 W152 6910001030 JUMPER IPS-1041-2 W153 6910001030 JUMPER IPS-1041-2 W154 6910001030 JUMPER IPS-1041-2 W155 6910001030 JUMPER IPS-1041-2 W155 6910001030 JUMPER IPS-1041-2 W156 6910001030 JUMPER IPS-1041-2 W157 6910001030 JUMPER IPS-1041-2 W158 6910001030 JUMPER IPS-1041-2 W158 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W160 6910001020 JUMPER IPS-1041-2 W161 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-2				
W133         6910001020         JUMPER         IPS-1041-2           W134         6910001030         JUMPER         IPS-1041-4           W135         6910001030         JUMPER         IPS-1041-4           W140         6910001020         JUMPER         IPS-1041-2           W142         6910001030         JUMPER         IPS-1041-2           W143         6910001030         JUMPER         IPS-1041-4           W144         6910001020         JUMPER         IPS-1041-2           W145         6910001030         JUMPER         IPS-1041-2           W146         6910001030         JUMPER         IPS-1041-2           W147         6910001030         JUMPER         IPS-1041-2           W148         6910001030         JUMPER         IPS-1041-4           W149         6910001020         JUMPER         IPS-1041-2           W150         6910001020         JUMPER         IPS-1041-2           W151         6910001020         JUMPER         IPS-1041-2           W153         6910001020         JUMPER         IPS-1041-2           W153         6910001030         JUMPER         IPS-1041-2           W155         6910001030         JUMPER         IPS-1041-2 <td>ł</td> <td></td> <td>1</td> <td></td>	ł		1	
W135 6910001030 JUMPER IPS-1041-4 W136 6910001030 JUMPER IPS-1041-4 W140 6910001020 JUMPER IPS-1041-2 W142 6910001030 JUMPER IPS-1041-4 W143 6910001030 JUMPER IPS-1041-4 W144 6910001020 JUMPER IPS-1041-2 W145 6910001030 JUMPER IPS-1041-2 W146 6910001030 JUMPER IPS-1041-4 W147 6910001030 JUMPER IPS-1041-4 W148 6910001030 JUMPER IPS-1041-4 W149 6910001020 JUMPER IPS-1041-2 W150 6910001020 JUMPER IPS-1041-2 W151 6910001030 JUMPER IPS-1041-2 W152 6910001030 JUMPER IPS-1041-2 W153 6910001030 JUMPER IPS-1041-2 W154 6910001030 JUMPER IPS-1041-2 W155 6910001030 JUMPER IPS-1041-2 W155 6910001030 JUMPER IPS-1041-2 W156 6910001030 JUMPER IPS-1041-2 W157 6910001030 JUMPER IPS-1041-2 W158 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W160 6910001020 JUMPER IPS-1041-2 W161 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4				
W136 6910001030 JUMPER IPS-1041-4 W140 6910001020 JUMPER IPS-1041-2 W142 6910001030 JUMPER IPS-1041-4 W143 6910001030 JUMPER IPS-1041-4 W144 6910001020 JUMPER IPS-1041-2 W145 6910001030 JUMPER IPS-1041-2 W146 6910001030 JUMPER IPS-1041-4 W147 6910001030 JUMPER IPS-1041-4 W148 6910001030 JUMPER IPS-1041-4 W149 6910001020 JUMPER IPS-1041-2 W150 6910001020 JUMPER IPS-1041-2 W151 6910001030 JUMPER IPS-1041-2 W152 6910001030 JUMPER IPS-1041-2 W153 6910001030 JUMPER IPS-1041-2 W154 6910001030 JUMPER IPS-1041-2 W155 6910001030 JUMPER IPS-1041-2 W155 6910001030 JUMPER IPS-1041-4 W156 6910001030 JUMPER IPS-1041-2 W157 6910001030 JUMPER IPS-1041-2 W158 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W160 6910001020 JUMPER IPS-1041-2 W161 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4				
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W144	l.			
W146         6910001030         JUMPER         IPS-1041-4           W147         6910001030         JUMPER         IPS-1041-4           W148         6910001030         JUMPER         IPS-1041-4           W149         6910001020         JUMPER         IPS-1041-2           W150         6910001030         JUMPER         IPS-1041-2           W151         6910001020         JUMPER         IPS-1041-2           W153         6910001030         JUMPER         IPS-1041-2           W153         6910001030         JUMPER         IPS-1041-2           W155         6910001030         JUMPER         IPS-1041-4           W155         6910001030         JUMPER         IPS-1041-2           W156         6910001030         JUMPER         IPS-1041-2           W158         6910001020         JUMPER         IPS-1041-2           W159         6910001020         JUMPER         IPS-1041-2           W160         6910001020         JUMPER         IPS-1041-2           W162         6910001020         JUMPER         IPS-1041-2           W163         6910001020         JUMPER         IPS-1041-2           W164         6910001020         JUMPER         IPS-1041-2 <td>1</td> <td></td> <td></td> <td></td>	1			
W147         6910001030         JUMPER         IPS-1041-4           W148         6910001030         JUMPER         IPS-1041-4           W149         6910001020         JUMPER         IPS-1041-2           W150         6910001020         JUMPER         IPS-1041-2           W151         6910001020         JUMPER         IPS-1041-4           W152         6910001020         JUMPER         IPS-1041-2           W153         6910001030         JUMPER         IPS-1041-4           W154         6910001030         JUMPER         IPS-1041-2           W155         6910001030         JUMPER         IPS-1041-2           W156         6910001030         JUMPER         IPS-1041-2           W158         6910001020         JUMPER         IPS-1041-2           W159         6910001020         JUMPER         IPS-1041-2           W160         6910001020         JUMPER         IPS-1041-2           W162         6910001020         JUMPER         IPS-1041-2           W163         6910001020         JUMPER         IPS-1041-2           W164         6910001020         JUMPER         IPS-1041-2           W165         6910001020         JUMPER         IPS-1041-2 <td>:</td> <td>f</td> <td>4 =</td> <td></td>	:	f	4 =	
W148         6910001030         JUMPER         IPS-1041-4           W149         6910001020         JUMPER         IPS-1041-2           W150         6910001020         JUMPER         IPS-1041-2           W151         6910001030         JUMPER         IPS-1041-4           W152         6910001030         JUMPER         IPS-1041-2           W153         6910001030         JUMPER         IPS-1041-4           W154         6910001020         JUMPER         IPS-1041-2           W155         6910001030         JUMPER         IPS-1041-4           W157         6910001020         JUMPER         IPS-1041-2           W158         6910001020         JUMPER         IPS-1041-2           W159         6910001020         JUMPER         IPS-1041-2           W160         6910001020         JUMPER         IPS-1041-2           W162         6910001020         JUMPER         IPS-1041-2           W163         6910001020         JUMPER         IPS-1041-2           W164         6910001020         JUMPER         IPS-1041-2           W166         6910001030         JUMPER         IPS-1041-2           W166         6910001030         JUMPER         IPS-1041-4 <td>ŧ</td> <td></td> <td></td> <td></td>	ŧ			
W150         6910001020         JUMPER         IPS-1041-2           W151         6910001030         JUMPER         IPS-1041-4           W152         6910001020         JUMPER         IPS-1041-2           W153         6910001030         JUMPER         IPS-1041-4           W154         6910001030         JUMPER         IPS-1041-2           W155         6910001030         JUMPER         IPS-1041-4           W156         6910001020         JUMPER         IPS-1041-2           W158         6910001020         JUMPER         IPS-1041-2           W159         6910001020         JUMPER         IPS-1041-2           W160         6910001020         JUMPER         IPS-1041-2           W162         6910001020         JUMPER         IPS-1041-2           W163         6910001020         JUMPER         IPS-1041-2           W164         6910001020         JUMPER         IPS-1041-2           W165         6910001020         JUMPER         IPS-1041-2           W166         6910001030         JUMPER         IPS-1041-4           W167         6910001030         JUMPER         IPS-1041-4	ł			
W151 6910001030 JUMPER IPS-1041-4 W152 6910001020 JUMPER IPS-1041-2 W153 6910001030 JUMPER IPS-1041-2 W154 6910001020 JUMPER IPS-1041-2 W155 6910001030 JUMPER IPS-1041-4 W156 6910001030 JUMPER IPS-1041-4 W157 6910001020 JUMPER IPS-1041-2 W158 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W160 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4		1		
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W154 6910001020 JUMPER IPS-1041-2 W155 6910001030 JUMPER IPS-1041-4 W156 6910001030 JUMPER IPS-1041-4 W157 6910001020 JUMPER IPS-1041-2 W158 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W160 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4	ŧ			
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W156 6910001030 JUMPER IPS-1041-4 W157 6910001020 JUMPER IPS-1041-2 W158 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W160 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4				
W158 6910001020 JUMPER IPS-1041-2 W159 6910001020 JUMPER IPS-1041-2 W160 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4	1		JUMPER	IPS-1041-4
W159 6910001020 JUMPER IPS-1041-2 W160 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4				
W160 6910001020 JUMPER IPS-1041-2 W162 6910001020 JUMPER IPS-1041-2 W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4		1		
W163 6910001020 JUMPER IPS-1041-2 W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4	•	6910001020	JUMPER	IPS-1041-2
W164 6910001020 JUMPER IPS-1041-2 W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4	1	1		
W165 6910001020 JUMPER IPS-1041-2 W166 6910001030 JUMPER IPS-1041-4 W167 6910001030 JUMPER IPS-1041-4	:	1	1	
W167 6910001030 JUMPER IPS-1041-4	W165	6910001020		
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# [MAIN UNIT]

REF. NO.	ORDER NO.		DESCRIPTION		
W169	6910001020	JUMPER	IPS-1041-2		
W170	6910001020	JUMPER	IPS-1041-2		
W171	6910001030	JUMPER	IPS-1041-4		
W172	6910001030	JUMPER	IPS-1041-4		
W173	6910001020	JUMPER	IPS-1041-2		
W174	6910001020	JUMPER	IPS-1041-2		
W175	7120000020	JUMPER	JPW 02H (#03)		

REF.	ORDER NO.		DESCRIPTION
			DD 4074.DO
IC1	1130000670	IC IC	μPD4071BC
IC2	1130000970	IC	μPD4030BC GD4001B
IC3	1130003870	IC	*** *** ***
IC4	1130001270	IC	μPD4069UBC
IC5	1130003890	IC	GD4024B
IC6	1110000240	IC	BA222-V
IC7	1110001680	IC	S-8054ALB
IC8	1140002760	IC	HD63A01Y0RBF8P
IC9	1120000970	IC	M54562P TA7805S
IC10	1110002020	IC	TC4021BP
IC11	1130001360	IC	MB4052M-G
IC12	1130003860	IC	TC9181P
IC13	1130002960	IC	
IC14	1120001620	IC	M74ALS74AP
IC15	1120001620	IC	M74ALS74AP
IC16	1110001320	IC	μΡC1037HA μΡC1037HA
IC17	1110001320	IC	E.
IC19	1130000070	IC	TC4028BP
IC21	1120000970	IC	M54562P
IC22	1110000290	IC	BA618
	1530000110	TRANSISTOR	2SC2458-GR
Q1	1530000110	TRANSISTOR	2SC2458-GR
Q2	1530000110	TRANSISTOR	2SC2458-GR
Q3	1530000110	TRANSISTOR	2SC2458-GR
Q4	1530000110	TRANSISTOR	2SC2458-GR
Q5 Q6	1530000110	TRANSISTOR	2SC2458-GR
Q8	1530000110	TRANSISTOR	2SC2458-GR
Q9	1530000110	TRANSISTOR	2SC2458-GR
Q10	1530000110	TRANSISTOR	2SC2458-GR
Q11	1530000110	TRANSISTOR	2SC2458-GR
Q12	1530000940	TRANSISTOR	28C1571G
Q13	1530000110	TRANSISTOR	2SC2458-GR
Q14	1530000110	TRANSISTOR	2SC2458-GR
Q15	1560000090	FET	2SK192A-GR
Q16	1530000110	TRANSISTOR	2SC2458-GR
Q17	1560000090	FET	2SK192A-GR
Q18	1530000110	TRANSISTOR	2SC2458-GR
Q19	1560000090	FET	2SK192A-GR
Q20	1530000110	TRANSISTOR	2SC2458-GR
Q21	1560000090	FET	2SK192A-GR
Q22	1530000110	TRANSISTOR	2SC2458-GR
Q23	1530000150	TRANSISTOR	2SC2668-O
Q24	1530000150	TRANSISTOR	2SC2668-O
Q25	1590000340	TRANSISTOR	RN1202
Q26	1530000150	TRANSISTOR	2SC2668-O
Q27	1530000150	TRANSISTOR	2SC2668-O
Q29	1560000090	FET	2SK192A-GR
Q30	1530000150	TRANSISTOR	2SC2668-O
Q31	1590000360	TRANSISTOR	RN2202
Q32	1530000100	TRANSISTOR	2SC2458-Y
Q33	1530000110	TRANSISTOR	2SC2458-GR
Q34	1530000150	TRANSISTOR	2SC2668-O
Q35	1590000340	TRANSISTOR	RN1202 -

NO.	REF.	ORDER	DESCRIPTION						
151000080		NO.		ESCRIPTION					
TRANSISTOR   28C2488-G   28C248-G   28C2488-G   28C248-G   28C2488-G   28C2488-G   28C2488-G   28C248-G		l							
TRANSISTOR   25C2458-GR   TRANSISTOR   25C2458-GR   TRANSISTOR   25C2458-GR   TRANSISTOR   25C2458-GR   TRANSISTOR   25C4458-GR   25C		1							
Trindone		1							
D1 1710000611 DIODE 1SS133 T77 (26M/M) D3 171000160 DIODE 1SS133 D5 171000160 DIODE 1SS133 D6 171000160 DIODE 1SS133 D7 171000160 DIODE 1SS133 D8 171000160 DIODE 1SS133 D9 171000160 DIODE 1SS133 D10 173000100 ZENER RD5.1E B2 D11 171000160 DIODE 1SS133 (#03) D11 171000160 DIODE 1SS133 T77 (26M/M) (#02) D12 171000161 DIODE 1SS133 T77 (26M/M) (#02) D13 171000160 DIODE 1SS133 T77 (26M/M) (#02) D14 171000160 DIODE 1SS133 T77 (26M/M) (#02) D15 171000160 DIODE 1SS133 T77 (26M/M) (#02) D16 171000160 DIODE 1SS133 D17 171000160 DIODE 1SS133 D16 171000160 DIODE 1SS133 D17 171000160 DIODE 1SS133 D19 171000160 DIODE 1SS133 D19 171000160 DIODE 1SS133 D19 171000160 DIODE 1SS133 D20 171000160 DIODE 1SS133 D21 171000160 DIODE 1SS133 D22 171000160 DIODE 1SS133 D23 171000160 DIODE 1SS133 D24 171000160 DIODE 1SS133 D25 171000160 DIODE 1SS133 D26 171000160 DIODE 1SS133 D27 171000160 DIODE 1SS133 D28 171000160 DIODE 1SS133 D29 171000160 DIODE 1SS133 D26 171000160 DIODE 1SS133 D27 171000160 DIODE 1SS133 D28 1710000160 DIODE 1SS133 D29 1710000160 DIODE 1SS53 D30 171000060 DIODE 1SS53 D31 171000060 DIODE 1SS53 D33 171000060 DIODE 1SS53 D34 171000060 DIODE 1SS53 D35 1710000160 DIODE 1SS53 D36 1710000160 DIODE 1SS133 D40 171000060 DIODE 1SS133 D40 171000060 DIODE 1SS133 D40 1710000160 DIODE 1SS133 D40 1710000160 DIODE 1SS133 D40 1710000160 DIODE 1SS133 D40 1710000160 DIODE 1SS53 D51 1710000160 DIODE 1SS53 D53 1710000160 DIODE 1SS53 D53 1710000160 DIODE 1SS53 D54 1710000160 DIODE 1SS133 D55 1710000160 DIODE 1SS133 D66 1710000160 DIODE 1SS133 D67 1710000160 DIODE 1SS133 D60 1710000160 DIODE 1SS133 D60 1710000160 DIODE 1SS133 D60 1710000160 DIODE 1SS53 D61 1710000160 DIODE 1SS53 D62 1710000160 DIODE 1SS53 D63 1710000160 DIODE 1SS53 D64 1710000160 DIODE 1SS53 D65 1710000160 DIODE 1SS53 D60 1710000160 DIODE 1SS53 D60 1710000160 DIODE 1SS53 D60 171000		1530000110		2SC2458-GR					
D3         1710000160         DIODE         1SS133           D4         1710000160         DIODE         1SS133           D5         1710000160         DIODE         1SS133           D8         1710000160         DIODE         1SS133           D9         1710000160         DIODE         1SS133         (#03)           D11         1710000161         DIODE         1SS133         (#03)           D11         1710000160         DIODE         1SS133         777 (26M/M) (#02)           D12         1710000161         DIODE         1SS133         777 (26M/M) (#02)           D12         1710000160         DIODE         1SS133         777 (26M/M) (#02)           D13         1710000160         DIODE         1SS133         D16         1710000160         DIODE         1SS133           D16         1710000160         DIODE         1SS133         D17 (710000160         DIODE         1SS133           D17         1710000160         DIODE         1SS133         D17 (710000160         DIODE         1SS133           D19         1710000160         DIODE         1SS133         T77 (26M/M)         D10DE         1SS133           D21         1710000160         DI	Q49	1510000080	TRANSISTOR	2SA1048-GR					
D3         1710000160         DIODE         1SS133           D4         1710000160         DIODE         1SS133           D5         1710000160         DIODE         1SS133           D8         1710000160         DIODE         1SS133           D9         1710000160         DIODE         1SS133         (#03)           D11         1710000161         DIODE         1SS133         (#03)           D11         1710000160         DIODE         1SS133         777 (26M/M) (#02)           D12         1710000161         DIODE         1SS133         777 (26M/M) (#02)           D12         1710000160         DIODE         1SS133         777 (26M/M) (#02)           D13         1710000160         DIODE         1SS133         D16         1710000160         DIODE         1SS133           D16         1710000160         DIODE         1SS133         D17 (710000160         DIODE         1SS133           D17         1710000160         DIODE         1SS133         D17 (710000160         DIODE         1SS133           D19         1710000160         DIODE         1SS133         T77 (26M/M)         D10DE         1SS133           D21         1710000160         DI				-					
D4 171000160 DIODE 1SS133 D5 171000160 DIODE 1SS133 D8 171000160 DIODE 1SS133 D8 171000160 DIODE 1SS133 D9 171000160 DIODE 1SS133 D10 173000100 ZENER RD5.1E B2 D11 171000160 DIODE 1SS133 (#03) D11 171000160 DIODE 1SS133 (#03) D11 171000161 DIODE 1SS133 (#03) D12 171000161 DIODE 1SS133 (#03) D12 171000161 DIODE 1SS133 (#03) D13 171000160 DIODE 1SS133 T77 (26M/M) (#02) D14 171000160 DIODE 1SS133 D15 171000160 DIODE 1SS133 D16 171000160 DIODE 1SS133 D16 171000160 DIODE 1SS133 D17 171000160 DIODE 1SS133 D19 171000160 DIODE 1SS133 D19 171000160 DIODE 1SS133 D20 171000160 DIODE 1SS133 D21 171000160 DIODE 1SS133 D22 171000160 DIODE 1SS133 D23 171000160 DIODE 1SS133 D24 171000160 DIODE 1SS133 D25 171000160 DIODE 1SS133 D26 171000160 DIODE 1SS133 D27 171000160 DIODE 1SS133 D28 171000160 DIODE 1SS133 D29 171000160 DIODE 1SS133 D29 171000160 DIODE 1SS133 D29 1710000160 DIODE 1SS53 D30 1710000160 DIODE 1SS53 D31 1710000160 DIODE 1SS53 D32 1710000160 DIODE 1SS53 D33 1710000160 DIODE 1SS53 D34 1710000160 DIODE 1SS53 D35 171000160 DIODE 1SS53 D36 1710000160 DIODE 1SS53 D37 1710000160 DIODE 1SS53 D38 1710000160 DIODE 1SS133 D40 1710000611 DIODE 1SS133 D40 1710000611 DIODE 1SS133 D40 1710000611 DIODE 1SS133 D40 1710000610 DIODE 1SS53 D41 1710000610 DIODE 1SS53 D42 1710000610 DIODE 1SS53 D43 1710000160 DIODE 1SS53 D44 1710000610 DIODE 1SS53 D55 171000160 DIODE 1SS53 D66 1710000160 DIODE 1SS53 D67 1710000160 DIODE 1SS53 D68 1710000160 DIODE 1SS53 D69 1710000160 DIODE 1SS53 D60 1720000230 VARICAP 1SV101 D61 171000060 DIODE 1SS53 D60 1720000230 VARICAP 1SV101 D63 1710000160 DIODE 1SS53 D60 1720000230 VARICAP 1SV101 D61 1710000160 DIODE 1SS53 D61 1710000160 DIODE 1SS53 D62 1710000160 DIODE 1SS53 D63 1710000160 DIODE 1SS53 D63 1710000160 DIODE 1SS53 D64 1710	D1	1710000611	DIODE	· ·					
D5									
D8		l							
D9	1	l							
D11	D9	1710000160	DIODE	188133					
D11	I.	l							
D12									
D13									
D14	D12			1SS133 T77 (26M/M) (#02)					
Discription		l							
Display		l							
D19				1SS133					
D20	1								
D21         1710000611         DIODE         1SS133         T77 (26M/M)           D22         1710000160         DIODE         1SS133           D24         1710000160         DIODE         1SS133           D25         1710000160         DIODE         1SS133           D26         1710000160         DIODE         1SS133           D27         1710000160         DIODE         1SS133           D28         1710000050         DIODE         1SS53           D29         1710000050         DIODE         1SS53           D30         1710000050         DIODE         1SS53           D31         1710000050         DIODE         1SS53           D31         1710000050         DIODE         1SS53           D31         1710000050         DIODE         1SS53           D34         171000050         DIODE         1SS53           D34         1710000611         DIODE         1SS133           D36         1710000611         DIODE         1SS133           D36         1710000611         DIODE         1SS133           D39         1710000610         DIODE         1SS133           D41         1710000610 <t< td=""><td></td><td>I</td><td></td><td></td></t<>		I							
D22         1710000160         DIODE         1SS133           D23         1710000160         DIODE         1SS133           D24         1710000160         DIODE         1SS133           D25         1710000160         DIODE         1SS133           D26         1710000160         DIODE         1SS133           D27         1710000160         DIODE         1SS133           D28         1710000050         DIODE         1SS53           D30         1710000050         DIODE         1SS53           D31         1710000050         DIODE         1SS53           D33         1710000050         DIODE         1SS53           D33         1710000050         DIODE         1SS53           D34         1710000610         DIODE         1SS53           D35         1710000611         DIODE         1SS133         T77 (26M/M)           D37         1710000610         DIODE         1SS133         T77 (26M/M)           D38         1710000160         DIODE         1SS133         T77 (26M/M)           D39         1710000160         DIODE         1SS133         T77 (26M/M)           D41         1710000160         DIODE         1									
D24         1710000160         DIODE         1SS133           D25         1710000160         DIODE         1SS133           D27         1710000160         DIODE         1SS133           D27         1710000160         DIODE         1SS133           D28         1710000050         DIODE         1SS53           D30         1710000050         DIODE         1SS53           D31         1710000050         DIODE         1SS53           D32         1710000050         DIODE         1SS53           D33         1710000050         DIODE         1SS53           D34         1710000050         DIODE         1SS53           D35         1710000160         DIODE         1SS53           D36         1710000611         DIODE         1SS133         T77 (26M/M)           D37         1710000611         DIODE         1SS133         T77 (26M/M)           D38         1710000160         DIODE         1SS133         T77 (26M/M)           D39         1710000160         DIODE         1SS133         T77 (26M/M)           D40         1710000160         DIODE         1SS133         T77 (26M/M)           D41         1710000160		1	DIODE	1SS133					
D25									
D26									
D27         1710000160         DIODE         1SS133           D28         1710000160         DIODE         1SS133           D29         1710000050         DIODE         1SS53           D30         1710000050         DIODE         1SS53           D31         1710000050         DIODE         1SS53           D32         171000050         DIODE         1SS53           D34         171000050         DIODE         1SS53           D35         171000060         DIODE         1SS53           D36         1710000611         DIODE         1SS133         T77 (26M/M)           D37         1710000611         DIODE         1SS133         T77 (26M/M)           D38         1710000610         DIODE         1SS133         T77 (26M/M)           D39         1710000610         DIODE         1SS133         D40         1710000160         DIODE         1SS133           D40         1710000610         DIODE         1SS133         T77 (26M/M)         D41         1710000610         DIODE         1SS133         T77 (26M/M)         D42         1710000611         DIODE         1SS133         T77 (26M/M)         D43         171000060         DIODE         1SS53		l .							
D29         171000050         DIODE         1SS53           D30         171000050         DIODE         1SS53           D31         171000050         DIODE         1SS53           D32         171000050         DIODE         1SS53           D33         171000050         DIODE         1SS53           D34         1710000610         DIODE         1SS53           D35         1710000611         DIODE         1SS133         T77 (26M/M)           D37         1710000611         DIODE         1SS133         T77 (26M/M)           D38         1710000611         DIODE         1SS133         T77 (26M/M)           D38         1710000160         DIODE         1SS133         T77 (26M/M)           D39         1710000160         DIODE         1SS133         D40         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133         T77 (26M/M)           D41         1710000160         DIODE         1SS133         T77 (26M/M)           D43         1710000611         DIODE         1SS53           D44         1710000610         DIODE         1SS53           D45         1710000610		i							
D30         171000050         DIODE         1SS53           D31         171000050         DIODE         1SS53           D32         171000050         DIODE         1SS53           D33         171000050         DIODE         1SS53           D34         171000050         DIODE         1SS53           D35         1710000610         DIODE         1SS133           D36         1710000611         DIODE         1SS133           D37         1710000611         DIODE         1SS133           D39         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D41         1710000160         DIODE         1SS133           D42         1710000611         DIODE         1SS133           D42         171000060         DIODE         1SS53           D44         171000060         DIODE         1SS53           D44         171000060         DIODE         1SS53           D44         1710000610         DIODE         1SS53           D48         1720000230         VARICAP         1SV101									
D31         171000050         DIODE         1SS53           D32         171000050         DIODE         1SS53           D33         171000050         DIODE         1SS53           D34         171000050         DIODE         1SS53           D35         1710000610         DIODE         1SS133           D36         1710000611         DIODE         1SS133           D37         1710000611         DIODE         1SS133           D39         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D41         1710000160         DIODE         1SS133           D41         1710000160         DIODE         1SS133           D42         1710000611         DIODE         1SS133           D42         1710000601         DIODE         1SS133           D44         1710000160         DIODE         1SS133           D44         1710000160         DIODE         1SS133           D44         1710000160         DIODE         1SS133           D44         1710000160         DIODE         1SS5									
D33         171000050         DIODE         1SS53           D34         1710000160         DIODE         1SS53           D35         1710000160         DIODE         1SS133           D36         1710000611         DIODE         1SS133         T77 (26M/M)           D37         1710000160         DIODE         1SS133         T77 (26M/M)           D38         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D41         1710000160         DIODE         1SS133           D42         1710000611         DIODE         1SS133           D43         171000060         DIODE         1SS53           D44         171000050         DIODE         1SS53           D44         171000060         DIODE         1SS53           D45         171000061         DIODE         1SS133         T77 (26M/M)           D46         1710000611         DIODE         1SS53         T77 (26M/M)           D47         17100006050         DIODE         1SS53         T77 (26M/M)           D51         17100006050         DIODE         1SS53         TY0101           D51         1710									
D34         1710000050         DIODE         1SS53           D35         1710000611         DIODE         1SS133         T77 (26M/M)           D36         1710000611         DIODE         1SS133         T77 (26M/M)           D38         1710000160         DIODE         1SS133         T77 (26M/M)           D39         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D41         1710000160         DIODE         1SS133           D41         1710000611         DIODE         1SS133           D42         1710000611         DIODE         1SS53           D43         1710000160         DIODE         1SS53           D44         1710000160         DIODE         1SS53           D44         1710000160         DIODE         1SS133         T77 (26M/M)           D44         1710000160         DIODE         1SS133         T77 (26M/M)           D47         1710000160         DIODE         1SS53         T77 (26M/M)           D47         171000050         DIODE         1SS53         T77 (26M/M)           D51         171000050         DIODE         1SS53         T710101<	D32								
D35         171000160         DIODE         1SS133         T77 (26M/M)           D36         1710000611         DIODE         1SS133         T77 (26M/M)           D37         1710000160         DIODE         1SS133         T77 (26M/M)           D39         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D41         1710000160         DIODE         1SS133           D41         1710000611         DIODE         1SS133           D42         1710000611         DIODE         1SS53           D43         1710000050         DIODE         1SS53           D44         1710000160         DIODE         1SS133           D45         1710000160         DIODE         1SS133           D46         1710000160         DIODE         1SS133           D47         1710000050         DIODE         1SS53           D48         1720000230         VARICAP         1SV101           D49         1710000050         DIODE         1SS53           D50         1720000230         VARICAP         1SV101           D51         1710000050         DIODE         1SS53									
D36         1710000611         DIODE         1SS133         T77 (26M/M)           D37         1710000611         DIODE         1SS133         T77 (26M/M)           D38         1710000160         DIODE         1SS133           D39         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D41         1710000611         DIODE         1SS133           D42         1710000611         DIODE         1SS53           D44         171000050         DIODE         1SS53           D45         171000060         DIODE         1SS133         T77 (26M/M)           D46         171000060         DIODE         1SS53         T77 (26M/M)           D47         171000050         DIODE         1SS53         T77 (26M/M)           D49         171000050         DIODE         1SS53         T701           D50         1720000230         VARICAP         1SV101         TSS3           D51         171000050         DIODE         1SS53         TSS3           D54         1720000230         VARICAP         1SV101         TSS53         TSS53         TSS53         TSS53         TSS53 <td< td=""><td>1</td><td></td><td></td><td></td></td<>	1								
D38         1710000160         DIODE         1SS133           D39         1710000160         DIODE         1SS133           D40         1710000160         DIODE         1SS133           D41         1710000160         DIODE         1SS133           D42         1710000611         DIODE         1SS133         T77 (26M/M)           D43         171000050         DIODE         1SS53           D44         1710000160         DIODE         1SS133           D45         171000061         DIODE         1SS133           D46         171000060         DIODE         1SS133           D47         171000050         DIODE         1SS53           D48         1720000230         VARICAP         1SV101           D49         171000050         DIODE         1SS53           D50         1720000230         VARICAP         1SV101           D51         171000050         DIODE         1SS53           D52         1720000230         VARICAP         1SV101           D53         171000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         171000060									
D39									
D40         1710000160         DIODE         1SS133           D41         171000061         DIODE         1SS133           D42         1710000611         DIODE         1SS133         T77 (26M/M)           D43         171000060         DIODE         1S953           D44         171000060         DIODE         1SS53           D45         1710000611         DIODE         1SS133           D46         171000050         DIODE         1SS133           D47         171000050         DIODE         1SS53           D48         1720000230         VARICAP         1SV101           D49         171000050         DIODE         1SS53           D50         1720000230         VARICAP         1SV101           D51         171000050         DIODE         1SS53           D52         1720000230         VARICAP         1SV101           D53         171000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         171000060         DIODE         1SS53           D60         1710000160         DIODE         1SS133           D61         1710000610 <t< td=""><td></td><td></td><td></td><td></td></t<>									
D42         1710000611         DIODE         1SS133         T77 (26M/M)           D43         1710000040         DIODE         1S953           D44         171000050         DIODE         1SS53           D45         171000061         DIODE         1SS133           D46         1710000611         DIODE         1SS133         T77 (26M/M)           D47         171000050         DIODE         1SS53         DV101           D49         171000050         DIODE         1SS53         DV101           D50         1720000230         VARICAP         1SV101         DV101           D51         171000050         DIODE         1SS53         DV101           D52         1720000230         VARICAP         1SV101         DV101           D53         171000050         DIODE         1SS53         DV101           D54         1720000230         VARICAP         1SV101         DV101           D55         171000050         DIODE         1SS53         DV101           D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000160         DIODE									
D43         1710000040         DIODE         1S953           D44         171000050         DIODE         1SS53           D45         171000061         DIODE         1SS133           D46         171000050         DIODE         1SS133         T77 (26M/M)           D47         171000050         DIODE         1SS53         DV101           D49         171000050         DIODE         1SS53         DV101           D50         1720000230         VARICAP         1SV101         DS53           D51         171000050         DIODE         1SS53         DV101           D53         171000050         DIODE         1SS53         DV101           D53         171000050         DIODE         1SS53         DV101           D54         1720000230         VARICAP         1SV101         DS53         DV101         DV									
D44         171000050         DIODE         1SS53           D45         171000060         DIODE         1SS133           D46         1710000611         DIODE         1SS133         T77 (26M/M)           D47         171000050         DIODE         1SS53         DVARICAP         1SV101           D49         171000050         DIODE         1SS53         DV101         DV101           D50         1720000230         VARICAP         1SV101         DV101									
D45         1710000160         DIODE         1SS133           D46         1710000611         DIODE         1SS133 T77 (26M/M)           D47         171000050         DIODE         1SS53           D48         1720000230         VARICAP         1SV101           D49         171000050         DIODE         1SS53           D50         1720000230         VARICAP         1SV101           D51         171000050         DIODE         1SS53           D52         1720000230         VARICAP         1SV101           D53         171000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         171000050         DIODE         1SS53           D56         1720000120         VARICAP         1SV101           D55         1710000160         DIODE         1SS53           D61         1710000160         DIODE         1SS133           D62         1710000611         DIODE         1SS133           D63         171000060         DIODE         1SS133           D64         1710000610         DIODE         1SS133           D65         1710000060         DIODE <td></td> <td></td> <td></td> <td></td>									
D47         1710000050         DIODE         1SS53           D48         1720000230         VARICAP         1SV101           D49         1710000050         DIODE         1SS53           D50         1720000230         VARICAP         1SV101           D51         1710000050         DIODE         1SS53           D52         1720000230         VARICAP         1SV101           D53         171000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         171000050         DIODE         1SS53           D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000160         DIODE         1SS133           D62         1710000160         DIODE         1SS133           D64         1710000160         DIODE         1SS133           D65         1710000160         DIODE         1SS133           D82         1710000160         DIODE         1SS133           D83         1710000611         DIODE         1SS133           D85         1710000611         DIODE			l .	1SS133					
D48         1720000230         VARICAP         1SV101           D49         171000050         DIODE         1SS53           D50         1720000230         VARICAP         1SV101           D51         171000050         DIODE         1SS53           D52         1720000230         VARICAP         1SV101           D53         171000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         171000050         DIODE         1SS53           D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000160         DIODE         1SS133           D62         1710000611         DIODE         1SS133           D64         1710000160         DIODE         1SS133           D65         1710000160         DIODE         1SS133           D82         1710000160         DIODE         1SS133           D83         1710000611         DIODE         1SS133           D84         1710000611         DIODE         1SS133         T77 (26M/M)           D85         1710000611				· · ·					
D49         1710000050         DIODE         1SS53           D50         1720000230         VARICAP         1SV101           D51         1710000050         DIODE         1SS53           D52         1720000230         VARICAP         1SV101           D53         1710000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         171000050         DIODE         1SS53           D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000160         DIODE         1SS133           D62         1710000611         DIODE         1SS133           D64         1710000160         DIODE         1SS133           D65         1710000160         DIODE         1SS133           D82         1710000160         DIODE         1SS133           D83         1710000611         DIODE         1SS133           D84         1710000611         DIODE         1SS133         T77 (26M/M)           D85         1710000611         DIODE         1SS133         T77 (26M/M)									
D50         1720000230         VARICAP         1SV101           D51         1710000050         DIODE         1SS53           D52         1720000230         VARICAP         1SV101           D53         1710000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         171000050         DIODE         1SS53           D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000160         DIODE         1SS133           D62         1710000161         DIODE         1SS133           D64         1710000160         DIODE         1SS133           D65         1710000160         DIODE         1SS133           D82         1710000160         DIODE         1SS133           D83         1710000611         DIODE         1SS133           D84         1710000611         DIODE         1SS133         T77 (26M/M)           D85         1710000611         DIODE         1SS133         T77 (26M/M)		ŀ	l .						
D52         1720000230         VARICAP         1SV101           D53         1710000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         1710000050         DIODE         1SS53           D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000160         DIODE         1SS133           D62         1710000611         DIODE         1SS133           D64         171000060         DIODE         1SS133           D65         1710000160         DIODE         1SS133           D82         1710000160         DIODE         1SS133           D83         1710000160         DIODE         1SS133           D84         1710000611         DIODE         1SS133         T77 (26M/M)           D85         1710000611         DIODE         1SS133         T77 (26M/M)		1720000230							
D53         171000050         DIODE         1SS53           D54         1720000230         VARICAP         1SV101           D55         171000050         DIODE         1SS53           D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000610         DIODE         1SS133           D62         1710000611         DIODE         1SS133           D64         171000060         DIODE         1SS133           D65         171000060         DIODE         1SS53           D82         1710000160         DIODE         1SS133           D83         1710000160         DIODE         1SS133           D84         1710000611         DIODE         1SS133         T77 (26M/M)           D85         1710000611         DIODE         1SS133         T77 (26M/M)           X1         6060000120         CERAMIC         CSA4.91MG									
D54         1720000230         VARICAP         1SV101           D55         1710000050         DIODE         1SS53           D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000160         DIODE         1SS133           D62         1710000611         DIODE         1SS133         T77 (26M/M)           D64         1710000160         DIODE         1SS133         T77 (26M/M)           D65         1710000160         DIODE         1SS133         D83         1710000160         DIODE         1SS133           D84         1710000611         DIODE         1SS133         T77 (26M/M)           D85         1710000611         DIODE         1SS133         T77 (26M/M)           X1         6060000120         CERAMIC         CSA4.91MG	1	B							
D56         1720000120         VARICAP         FC52M           D60         1710000160         DIODE         1SS133           D61         1710000610         DIODE         1SS133           D62         1710000611         DIODE         1SS133         T77 (26M/M)           D64         1710000160         DIODE         1SS133         T77 (26M/M)           D65         1710000160         DIODE         1SS133         DIODE         1SS133           D82         1710000160         DIODE         1SS133         TS133         T71           D84         1710000611         DIODE         1SS133         T77 (26M/M)           D85         1710000611         DIODE         1SS133         T77 (26M/M)           X1         6060000120         CERAMIC         CSA4.91MG									
D60         1710000160         DIODE         1SS133           D61         1710000160         DIODE         1SS133           D62         1710000611         DIODE         1SS133         T77 (26M/M)           D64         1710000160         DIODE         1SS133         T77 (26M/M)           D65         1710000050         DIODE         1SS53         DIODE         1SS133           D82         1710000160         DIODE         1SS133         TSS133         T710000160         DIODE         1SS133         T77 (26M/M)           D84         1710000611         DIODE         1SS133         T77 (26M/M)         T710000611         DIODE         1SS133         T77 (26M/M)           X1         6060000120         CERAMIC         CSA4.91MG	1								
D61         1710000160         DIODE         1SS133           D62         1710000611         DIODE         1SS133 T77 (26M/M)           D64         1710000160         DIODE         1SS133           D65         1710000050         DIODE         1SS53           D82         1710000160         DIODE         1SS133           D83         1710000160         DIODE         1SS133           D84         1710000611         DIODE         1SS133 T77 (26M/M)           D85         1710000611         DIODE         1SS133 T77 (26M/M)           X1         6060000120         CERAMIC         CSA4.91MG	1								
D62         1710000611         DIODE         1SS133 T77 (26M/M)           D64         1710000160         DIODE         1SS133           D65         1710000050         DIODE         1SS53           D82         1710000160         DIODE         1SS133           D83         1710000160         DIODE         1SS133           D84         1710000611         DIODE         1SS133 T77 (26M/M)           D85         1710000611         DIODE         1SS133 T77 (26M/M)           X1         6060000120         CERAMIC         CSA4.91MG	1								
D65 171000050 DIODE 1SS53 D82 1710000160 DIODE 1SS133 D83 1710000160 DIODE 1SS133 D84 1710000611 DIODE 1SS133 T77 (26M/M) D85 1710000611 DIODE 1SS133 T77 (26M/M)  X1 6060000120 CERAMIC CSA4.91MG	I .	1710000611	DIODE	1SS133 T77 (26M/M)					
D82 1710000160 DIODE 1SS133 D83 1710000160 DIODE 1SS133 D84 1710000611 DIODE 1SS133 T77 (26M/M) D85 1710000611 DIODE 1SS133 T77 (26M/M)  X1 6060000120 CERAMIC CSA4.91MG	1	1							
D83		1							
D84   1710000611   DIODE   1SS133 T77 (26M/M)   D85   1710000611   DIODE   1SS133 T77 (26M/M)   X1   6060000120   CERAMIC   CSA4.91MG									
X1 6060000120 CERAMIC CSA4.91MG	D84	1710000611	DIODE	• •					
	D85	1710000611	DIODE	1SS133 T77 (26M/M)					
				•					
LX2   6050001520   XTAI   CR-21									
THE DOGGOOD OF THE STREET	X2	6050001520	XTAL	CR-21					

REF. NO.	ORDER NO.	DESCRIPTION					
L1	6180000880	COIL	LAL 03NA 100K				
L2	6140000580	COIL	LR-79				
L3	6110002740	COIL	LA-472 LW-25				
L4 L5	6170000230 6140000580	COIL	LW-25 LR-79				
L6	6110002740	COIL	LA-472				
L7	6170000230	COIL	LW-25				
L8	6140000580	COIL	LR-79				
L9	6110002740	COIL	LA-472				
L10 L11	6170000230 6140000580	COIL	LW-25 LR-79				
L12	6110002740	COIL	LA-472				
L13	6170000230	COIL	LW-25				
L14	6180000900	COIL	LAL 03NA 101K				
L15	6180000900	COIL	LAL 03NA 101K				
L16 L17	6180000740 6110001560	COIL	LAL 03NA R56M LA-236				
L17	6110001560	COIL	LA-236				
L19	6110001550	COIL	LA-235				
L20	6180000900	COIL	LAL 03NA 101K				
L22	6180000880	COIL	LAL 03NA 100K				
L23	6180000720	COIL	LAL 03NA R39M LAL 03NA R27M				
L24 L25	6180000700 6180000690	COIL	LAL USNA R27M				
L26	6180000960	COIL	LAL 03NA 102K				
L27	6180000900	COIL	LAL 03NA 101K				
L28	6180000900	COIL	LAL 03NA 101K				
L29	6180000900	COIL	LAL 03NA 101K				
L30 L31	6150003100 6180000850	COIL	LS-316 LAL 03NA 4R7K				
L32	6180000850	COIL	LAL 03NA 4R7K				
L33	6910000670	COIL	BT01RN1-A61-001				
L34	6170000180	COIL	LW-19				
L35	6150000760	COIL	LS-94				
L36 L37	6180001510 6180000900	COIL	LAL 02NA 101K LAL 03NA 101K				
L37	6150000900	COIL	LS-114				
L39	6150000990	COIL	LS-114				
L40	6910003570	COIL	2943-666663				
L41	6110001640	COIL	LA-247				
L42 L43	6140000580 6180000900	COIL	LR-79 LAL 03NA 101K				
L43 L44	6910000670	COIL	BT01RN1-A61-001				
L45	6180000960	COIL	LAL 03NA 102K				
L46	6910003570	COIL	2943-666663				
L47	6180000900	COIL	LAL 03NA 101K				
L48 L49	6180000960 6110001560	COIL	LAL 03NA 102K LA-236				
L51	6180000960	COIL	LAL 03NA 102K				
L63	6180000900	COIL	LAL 03NA 101K				
L64	6180000900	COIL	LAL 03NA 101K				
L65	6180000900	COIL	LAL 03NA 101K LAL 03NA 102K				
L66 L67	6180000960 6180000900	COIL	LAL USNA 102K LAL OSNA 101K				
L67	6180000900	COIL	LAL 03NA 101K				
L69	6180000900	COIL	LAL 03NA 101K				
L70	6180002920	COIL	LAL 02NA 5R6K				
L71	6180000900	COIL	LAL 03NA 101K				
R1	7010003780	RESISTOR	ELR20J 1 MΩ				
R2	7010003550	RESISTOR	ELR20J 15 kΩ				
R3	7010004321	RESISTOR	R20 T-24J 10 kΩ				
R4	7010003810	RESISTOR RESISTOR	ELR20J 2.2 MΩ ELR20J 1 MΩ				
R5 R6	7010003780 7010003550	RESISTOR	ELR20J 1 MΩ ELR20J 15 kΩ				
R7	7010003330	RESISTOR	R25XJ 100 kΩ (#02)				
R7	7010001401	RESISTOR	R25X T-24J 100 kΩ (#03)				
R8	7010003700	RESISTOR	ELR20J 220 kΩ				
R9	7010003660	RESISTOR	ELR20J 100 kΩ				
R10 R11	7010003700 7010003660	RESISTOR RESISTOR	ELR20J 220 kΩ ELR20J 100 kΩ				
R12	7010003660	RESISTOR	ELR20J 100 kΩ				
R13	7010003530	RESISTOR	ELR20J 10 kΩ				
R14	7010003530	RESISTOR	ELR20J 10 kΩ				
	·	· · · · · ·					

REF.   ORDER NO.   DESCRIPTION	[PLL (	,,,,,					
RESISTOR			DESCRIPTION				
R18	R15	7010003420	RESISTOR	ELR20J 1.5 kΩ			
R19	8	7010003530	RESISTOR				
R19		1					
R20	B .	1					
R21	i						
R22		1					
R29		J .					
R30	R29	7010001111					
R30	1			*			
RS31   7010001111   RESISTOR   R25X T-24J 470 Ω (#03)   RESISTOR   R25X J 1 kΩ (#02)   RESISTOR   R25X J 1 kΩ (#02)   RESISTOR   R25X J 1 kΩ (#02)   RESISTOR   R20 T-24J 1 kΩ   RESISTOR   R20 T-24J 4.7 kΩ   RESISTOR   R25X T-24J 4.7 kΩ   RESISTOR   R20 T-24J 4.7 kΩ   RESISTOR   R20 T-24J 4.7 kΩ   RESISTOR   R20 T-24J 4.7 kΩ   R20 T-24J 4.7 kΩ	1	1					
R31		1					
R33		1					
RS34		7010004191	RESISTOR				
R35		1					
R36		1					
R37   7010003460   RESISTOR   ELR20J 3.3 kΩ   R38   7010003490   RESISTOR   ELR20J 5.6 kΩ   R39   7010005420   RESISTOR   ELR20J 9.1 kΩ (#03)   R39   7010004271   RESISTOR   R20 T.24J 4.7 kΩ   R49   7010004271   RESISTOR   R50XJ 22 Ω   R50XJ 22 Ω	ľ	1					
R38	F	1					
R39	i	1					
R40	R39	7010003530	RESISTOR				
R49         7010004670         RESISTOR         R50XJ 22 Ω           R50         7010003240         RESISTOR         R20 T-24J 10 kΩ           R51         701000340         RESISTOR         ELR20J 47 Ω           R52         7010003530         RESISTOR         ELR20J 100 kΩ           R53         7010004271         RESISTOR         R20 T-24J 4.7 kΩ           R55         7010004231         RESISTOR         R20 T-24J 4.7 kΩ           R66         7010003620         RESISTOR         R20 T-24J 4.7 kΩ           R59         7010003620         RESISTOR         ELR20J 47 kΩ           R59         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R60         7010001401         RESISTOR         R25XJ 100 kΩ (#02)           R61         7010004410         RESISTOR         R25X T-24J 47 kΩ (#03)           R61         7010004411         RESISTOR         R25X T-24J 100 kΩ (#03)           R63         7010004411         RESISTOR         R20 T-24J 47 kΩ (#02)           R63         7010004411         RESISTOR         R20 T-24J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20 T-24J 47 kΩ (#03)           R66         701000350         RESISTOR         R20 T-24J 47 kΩ		1					
R50		1	ł				
R51         7010003240         RESISTOR         ELR20J 47 Ω           R52         7010003660         RESISTOR         ELR20J 100 kΩ           R53         7010003530         RESISTOR         ELR20J 10 kΩ           R54         7010004271         RESISTOR         R20 T-24J 47 kΩ           R55         7010004271         RESISTOR         R20 T-24J 2.2 kΩ           R67         7010003620         RESISTOR         R20 T-24J 2.2 kΩ           R58         7010003620         RESISTOR         ELR20J 47 kΩ           R59         7010001360         RESISTOR         R25XJ 47 kΩ (#02)           R60         7010001400         RESISTOR         R25XJ 47 kΩ (#02)           R60         7010001401         RESISTOR         R25XJ 100 kΩ (#02)           R61         7010004410         RESISTOR         R25XJ 100 kΩ (#02)           R61         7010004411         RESISTOR         R20J 47 kΩ (#02)           R63         7010004411         RESISTOR         R20J 47 kΩ (#03)           R65         7010004410         RESISTOR         R20J 47 kΩ (#02)           R63         7010004410         RESISTOR         R20J 47 kΩ (#02)           R65         7010004410         RESISTOR         R20J 47 kΩ (#02)      <	1	1	ł.				
R52         7010003660         RESISTOR         ELR20J 100 kΩ           R53         7010003530         RESISTOR         ELR20J 10 kΩ           R54         7010004271         RESISTOR         R20 T-24J 47 kΩ           R56         7010004231         RESISTOR         R20 T-24J 2.2 kΩ           R57         7010003620         RESISTOR         ELR20J 47 kΩ           R59         7010001360         RESISTOR         ELR20J 47 kΩ (#02)           R59         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R60         7010001401         RESISTOR         R25XJ 100 kΩ (#02)           R61         701000410         RESISTOR         R25XJ 100 kΩ (#02)           R61         7010004410         RESISTOR         R25X T-24J 47 kΩ (#03)           R61         7010004411         RESISTOR         R20 T-24J 47 kΩ (#02)           R63         7010004411         RESISTOR         R20 T-24J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20 T-24J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20 T-24J 47 kΩ (#02)           R66         741000360         RESISTOR         R20 T-24J 47 kΩ (#02)           R66         701000350         RESISTOR         R20	1						
R54         7010004231         RESISTOR         R20 T-24J 47 Ω           R55         7010004271         RESISTOR         R20 T-24J 4.7 kΩ           R57         7010003620         RESISTOR         R20 T-24J 2.2 kΩ           R58         7010003620         RESISTOR         ELR20J 47 kΩ           R59         7010001360         RESISTOR         R25XJ 47 kΩ (#02)           R60         7010001400         RESISTOR         R25XJ 100 kΩ (#02)           R60         7010001401         RESISTOR         R25XJ 100 kΩ (#02)           R61         701000410         RESISTOR         R25X T-24J 100 kΩ (#03)           R61         7010004410         RESISTOR         R20J 47 kΩ (#02)           R63         7010004411         RESISTOR         R20J 47 kΩ (#02)           R63         7010004410         RESISTOR         R20J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20J 47 kΩ (#02)           R66         701000411         RESISTOR         R20J 47 kΩ (#02)	1						
R55         7010004271         RESISTOR         R20 T-24J 4.7 kΩ           R56         7010004231         RESISTOR         R20 T-24J 2.2 kΩ           R57         7010003620         RESISTOR         ELR20J 47 kΩ           R58         7010001360         RESISTOR         ELR20J 47 kΩ           R59         7010001361         RESISTOR         R25X J 47 kΩ (#02)           R60         7010001401         RESISTOR         R25X J 100 kΩ (#03)           R61         7010004410         RESISTOR         R25X J 100 kΩ (#02)           R61         7010004411         RESISTOR         R25X J 47 kΩ (#02)           R62         7010004410         RESISTOR         R20J 47 kΩ (#02)           R63         7010004411         RESISTOR         R20J 47 kΩ (#02)           R63         7010004411         RESISTOR         R20J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20J 47 kΩ (#03)           R65         7010004411         RESISTOR         R20 T-24J 47 kΩ (#03)           R66         741000180         RESISTOR         R20 T-24J 47 kΩ (#03)           R67         7010003530         RESISTOR         R25X J 47 kΩ (#02)           R68         701000360         RESISTOR         R25X J 47 kΩ (	R53	7010003530	RESISTOR				
R56	1	1	1				
R57         7010003620         RESISTOR         ELR20J 47 kΩ           R58         7010003620         RESISTOR         ELR20J 47 kΩ           R59         7010001360         RESISTOR         RESXJ 47 kΩ (#02)           R59         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R60         7010001401         RESISTOR         R25XJ 100 kΩ (#02)           R60         7010004410         RESISTOR         R25XJ 100 kΩ (#02)           R61         7010004411         RESISTOR         R20J 47 kΩ (#02)           R62         7010003620         RESISTOR         R20J 47 kΩ (#02)           R63         7010004410         RESISTOR         R20J 47 kΩ (#02)           R63         7010004411         RESISTOR         R20J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20J 47 kΩ (#03)           R66         7010003530         RESISTOR         R20J 47 kΩ (#03)           R67         7010003530         RESISTOR         R20J 47 kΩ (#02)           R68         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R68         701000350         RESISTOR         R25XJ 47 kΩ (#02) </td <td>1</td> <td>1</td> <td>1</td> <td></td>	1	1	1				
R58         7010003620         RESISTOR         ELR20J 47 kΩ (#02)           R59         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R60         7010001401         RESISTOR         R25X T-24J 47 kΩ (#03)           R60         7010001401         RESISTOR         R25X T-24J 100 kΩ (#03)           R61         7010004410         RESISTOR         R25X T-24J 100 kΩ (#03)           R61         7010004411         RESISTOR         R20J 47 kΩ (#02)           R62         7010003620         RESISTOR         R20J 47 kΩ (#02)           R63         7010004410         RESISTOR         R20J 47 kΩ (#02)           R63         7010004411         RESISTOR         R20J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20J 47 kΩ (#02)           R66         741000180         ARRAY         RMX-8 103K           R67         701000350         RESISTOR         R25XJ 47 kΩ (#02)           R68         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R68         701000350         RESISTOR         R25XJ 47 kΩ (#03)           R69         701000360         RESISTOR         R25XJ 47 kΩ (#	1	1 '					
R59	1	1	ł				
R60	R59	7010001360	RESISTOR	***			
R60		1	1				
R61         7010004410         RESISTOR         R20J 47 kΩ (#02)           R61         7010004411         RESISTOR         R20 T-24J 47 kΩ (#03)           R62         7010003620         RESISTOR         ELR20J 47 kΩ (#02)           R63         7010004410         RESISTOR         R20 T-24J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20 T-24J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20 T-24J 47 kΩ (#02)           R66         7410000180         ARRAY         RMX- 8 103K           R67         701003530         RESISTOR         ELR20J 10 kΩ           R68         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R69         7010003640         RESISTOR         R25XJ 47 kΩ (#02)           R69         7010003640         RESISTOR         ELR20J 16 kΩ           R70         7310003250         TRIMMER         EVN-D2AA03 B33 (302)           R71         7010003550         RESISTOR         RESISTOR         R20 T-24J 100 Ω           R72         7010004071         RESISTOR         RELR20J 15 kΩ           R73         7010003400         RESISTOR         ELR20J 16 kΩ           R75         7010003400         RESISTOR <td< td=""><td></td><td>1</td><td>1</td><td>• • • • • • • • • • • • • • • • • • • •</td></td<>		1	1	• • • • • • • • • • • • • • • • • • • •			
R61	I .		1	• • • •			
R63	I .	1	RESISTOR	• • • • • • • • • • • • • • • • • • • •			
R63	I .	1	1				
R65         7010004410         RESISTOR         R20J 47 kΩ (#02)           R65         7010004411         RESISTOR         R20 T-24J 47 kΩ (#03)           R66         7410000180         ARRAY         RMX- 8 103K           R67         7010003530         RESISTOR         ELR20J 10 kΩ           R68         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R69         7010003640         RESISTOR         R25X T-24J 47 kΩ (#03)           R69         7010003550         TRIMMER         EVN-D2AA03 B33 (302)           R71         7010003550         RESISTOR         ELR20J 15 kΩ           R72         7010004071         RESISTOR         R20 T-24J 100 Ω           R73         7010004670         RESISTOR         R50XJ 22 Ω           R74         7010003400         RESISTOR         ELR20J 1 kΩ           R75         7010003400         RESISTOR         ELR20J 22 kΩ           R76         7010003400         RESISTOR         ELR20J 22 kΩ           R77         7010001190         RESISTOR         ELR20J 100 kΩ           R78         7010003660         RESISTOR         RLR20J 100 kΩ           R80         7010003660         RESISTOR         RLR20J 100 kΩ           R81		1					
R65		1		· · · · · · · · · · · · · · · · · · ·			
R67         7010003530         RESISTOR         ELR20J 10 kΩ           R68         7010001360         RESISTOR         R25XJ 47 kΩ (#02)           R68         7010001361         RESISTOR         R25XJ 47 kΩ (#02)           R69         7010003640         RESISTOR         ELR20J 68 kΩ           R70         7310003250         TRIMMER         EVN-D2AA03 B33 (302)           R71         701000350         RESISTOR         ELR20J 15 kΩ           R72         7010004071         RESISTOR         R20 T-24J 100 Ω           R73         701000470         RESISTOR         REDROJ 1 kΩ           R74         7010003400         RESISTOR         ELR20J 1 kΩ           R75         7010003700         RESISTOR         ELR20J 220 kΩ           R76         7010003400         RESISTOR         ELR20J 220 kΩ           R77         7010003400         RESISTOR         ELR20J 22 kΩ           R78         7010003600         RESISTOR         RELR20J 100 kΩ           R79         7010003600         RESISTOR         ELR20J 100 kΩ           R80         7010004101         RESISTOR         RELR20J 100 kΩ           R81         7010003600         RESISTOR         ELR20J 100 kΩ           R83		1	1	• • • •			
R68         7010001360         RESISTOR         R25XJ 47 kΩ (#02)           R68         7010001361         RESISTOR         R25X T-24J 47 kΩ (#03)           R69         7010003640         RESISTOR         ELR20J 68 kΩ           R70         7310003250         TRIMMER         EVN-D2AA03 B33 (302)           R71         7010003550         RESISTOR         ELR20J 15 kΩ           R72         7010004670         RESISTOR         R20 T-24J 100 Ω           R73         7010003400         RESISTOR         RESOXJ 22 Ω           R74         7010003400         RESISTOR         ELR20J 1 kΩ           R75         7010003700         RESISTOR         ELR20J 220 kΩ           R76         7010003440         RESISTOR         ELR20J 22.2 kΩ           R77         7010001190         RESISTOR         ELR20J 100 kΩ           R78         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004101         RESISTOR         R20J 180 Ω (#02)           R81         7010003300         RESISTOR         ELR20J 100 kΩ           R82         7010003660         RESISTOR         ELR20J 100 kΩ           R83         7010003660         RESISTOR         ELR20J 100 kΩ           R85		1		•			
R68         7010001361         RESISTOR         R25X T-24J 47 kΩ (#03)           R69         7010003640         RESISTOR         ELR20J 68 kΩ           R70         7310003250         TRIMMER         EVN-D2AA03 B33 (302)           R71         7010003550         RESISTOR         ELR20J 15 kΩ           R72         7010004670         RESISTOR         R20 T-24J 100 Ω           R73         7010003400         RESISTOR         REDR20J 1 kΩ           R75         7010003700         RESISTOR         ELR20J 220 kΩ           R76         7010003440         RESISTOR         ELR20J 22.2 kΩ           R77         7010001190         RESISTOR         RELR20J 2.2 kΩ           R78         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004101         RESISTOR         ELR20J 100 kΩ           R80         7010004101         RESISTOR         R20J 180 Ω (#02)           R81         701000360         RESISTOR         ELR20J 100 kΩ           R82         701000360         RESISTOR         ELR20J 100 kΩ           R83         701000360         RESISTOR         ELR20J 100 kΩ           R85         701000360         RESISTOR         ELR20J 100 kΩ           R86 <td></td> <td>1</td> <td></td> <td></td>		1					
R69         7010003640         RESISTOR         ELR20J 68 kΩ           R70         7310003250         TRIMMER         EVN-D2AA03 B33 (302)           R71         7010003550         RESISTOR         ELR20J 15 kΩ           R72         7010004071         RESISTOR         R20 T-24J 100 Ω           R73         7010003400         RESISTOR         R50XJ 22 Ω           R74         7010003400         RESISTOR         ELR20J 1 kΩ           R75         7010003700         RESISTOR         ELR20J 220 kΩ           R76         7010003440         RESISTOR         ELR20J 22 kΩ           R77         7010001190         RESISTOR         RLR20J 2.2 kΩ           R78         7010003660         RESISTOR         ELR20J 100 kΩ           R79         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004101         RESISTOR         R20J 180 Ω (#02)           R81         7010003660         RESISTOR         ELR20J 100 kΩ           R82         7010003660         RESISTOR         ELR20J 100 kΩ           R83         7010003660         RESISTOR         ELR20J 100 kΩ           R84         7010003660         RESISTOR         ELR20J 100 kΩ           R88         <		1					
R70         7310003250         TRIMMER         EVN-D2AA03         B33 (302)           R71         7010003550         RESISTOR         ELR20J 15 kΩ           R72         7010004071         RESISTOR         R20 T-24J 100 Ω           R73         7010003400         RESISTOR         R50XJ 22 Ω           R74         7010003400         RESISTOR         ELR20J 1 kΩ           R75         7010003400         RESISTOR         ELR20J 220 kΩ           R76         7010003440         RESISTOR         ELR20J 22 kΩ           R77         7010001190         RESISTOR         ELR20J 2.2 kΩ           R78         7010003660         RESISTOR         ELR20J 100 kΩ           R79         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004101         RESISTOR         R20J 180 Ω (#02)           R81         7010003600         RESISTOR         ELR20J 150 Ω           R82         7010003600         RESISTOR         ELR20J 100 kΩ           R83         701000451         RESISTOR         ELR20J 100 kΩ           R86         701000451         RESISTOR         ELR20J 100 kΩ           R88         7010003600         RESISTOR         ELR20J 100 kΩ           R88		1	l .	• • • • • • • • • • • • • • • • • • • •			
R72         7010004071         RESISTOR         R20 T-24J 100 $\Omega$ R73         7010004670         RESISTOR         R50XJ 22 $\Omega$ R74         7010003400         RESISTOR         ELR20J 1 k $\Omega$ R75         7010003700         RESISTOR         ELR20J 220 k $\Omega$ R76         7010003440         RESISTOR         ELR20J 22 k $\Omega$ R77         7010001190         RESISTOR         RLR20J 2.2 k $\Omega$ R78         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R79         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R80         7010004100         RESISTOR         R20J 180 $\Omega$ (#03)           R81         7010003300         RESISTOR         ELR20J 100 k $\Omega$ R82         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R83         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R85         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R88         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R88         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R89         7010003660         RESISTOR         ELR20J 100 k $\Omega$	R70	7310003250		- , ,			
R73         7010004670         RESISTOR         R50XJ 22 Ω           R74         7010003400         RESISTOR         ELR20J 1 kΩ           R75         7010003700         RESISTOR         ELR20J 220 kΩ           R76         7010003440         RESISTOR         ELR20J 2.2 kΩ           R77         7010001190         RESISTOR         RELR20J 100 kΩ           R78         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004100         RESISTOR         RLR20J 100 kΩ           R80         7010004101         RESISTOR         R20J 180 Ω (#03)           R81         7010003300         RESISTOR         ELR20J 150 Ω           R82         7010003660         RESISTOR         ELR20J 100 kΩ           R83         7010003660         RESISTOR         ELR20J 100 kΩ           R85         7010003660         RESISTOR         ELR20J 100 kΩ           R86         7010004451         RESISTOR         ELR20J 100 kΩ           R88         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R91         70		1					
R74         7010003400         RESISTOR         ELR20J 1 kΩ           R75         7010003700         RESISTOR         ELR20J 220 kΩ           R76         7010003440         RESISTOR         ELR20J 2.2 kΩ           R77         7010001190         RESISTOR         R25XJ 2.2 kΩ           R78         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004100         RESISTOR         ELR20J 100 kΩ           R80         7010004101         RESISTOR         R20J 180 Ω (#02)           R81         7010003300         RESISTOR         ELR20J 150 Ω           R82         7010003660         RESISTOR         ELR20J 100 kΩ           R83         7010003660         RESISTOR         ELR20J 100 kΩ           R85         7010003660         RESISTOR         ELR20J 100 kΩ           R86         7010004451         RESISTOR         ELR20J 100 kΩ           R88         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R91         7010004101         RESISTOR         REAR20J 100 kΩ           R91         7010004101         RESISTOR         R20J 180 Ω (#02)           R91         <	1	I .					
R75         7010003700         RESISTOR         ELR20J 220 kΩ           R76         7010003440         RESISTOR         ELR20J 2.2 kΩ           R77         7010001190         RESISTOR         R25XJ 2.2 kΩ           R78         7010003660         RESISTOR         ELR20J 100 kΩ           R79         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004101         RESISTOR         R20J 180 Ω (#02)           R81         7010003300         RESISTOR         ELR20J 150 Ω           R82         7010003660         RESISTOR         ELR20J 100 kΩ           R83         7010003660         RESISTOR         ELR20J 100 kΩ           R85         7010003660         RESISTOR         ELR20J 100 kΩ           R86         7010004451         RESISTOR         RELR20J 100 kΩ           R88         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010004101         RESISTOR         REAR20J 100 kΩ           R91         7010004101         RESISTOR         R20J 180 Ω (#02)           R91         7010004250         RESISTOR         R20J 3.3 kΩ (#02)	4	1					
R77         7010001190         RESISTOR         R25XJ         2.2 kΩ           R78         7010003660         RESISTOR         ELR20J $100 \text{ kΩ}$ R79         7010003660         RESISTOR         ELR20J $100 \text{ kΩ}$ R80         7010004100         RESISTOR         R20J $180 \Omega$ (#02)           R80         7010003300         RESISTOR         R20 T-24J $180 \Omega$ (#03)           R81         7010003660         RESISTOR         ELR20J $150 \Omega$ $150 \Omega$ R82         7010003660         RESISTOR         ELR20J $100 \Omega$ $100 \Omega$ R85         7010003660         RESISTOR         ELR20J $100 \Omega$ $100 \Omega$ R88         7010003660         RESISTOR         ELR20J $100 \Omega$ $100 \Omega$ R89         7010003660         RESISTOR         ELR20J $100 \Omega$ $100 \Omega$ R89         7010003660         RESISTOR         RELR20J $100 \Omega$ $100 \Omega$ R91         7010004100         RESISTOR         R20J $180 \Omega$ $180 \Omega$ R91         701000450         RESISTOR         R2	1						
R78         7010003660         RESISTOR         ELR20J 100 kΩ           R79         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R80         7010004101         RESISTOR         R20 T-24J 180 $\Omega$ (#03)           R81         7010003600         RESISTOR         ELR20J 150 $\Omega$ R82         7010003660         RESISTOR         ELR20J 100 kΩ           R85         7010003660         RESISTOR         ELR20J 100 kΩ           R86         701000451         RESISTOR         REDR20J 100 kΩ           R88         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R91         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R91         7010004101         RESISTOR         R20J 180 $\Omega$ (#02)           R92         7010004250         RESISTOR         R20J 3.3 k $\Omega$ (#02)		1					
R79         7010003660         RESISTOR         ELR20J 100 kΩ           R80         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R80         7010004101         RESISTOR         R20 T-24J 180 $\Omega$ (#03)           R81         7010003300         RESISTOR         ELR20J 150 $\Omega$ R82         7010003660         RESISTOR         ELR20J 100 kΩ           R83         7010003660         RESISTOR         ELR20J 100 kΩ           R85         7010003660         RESISTOR         ELR20J 100 kΩ           R86         7010004451         RESISTOR         R20 T-24J 100 kΩ           R88         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R91         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R91         7010004101         RESISTOR         R20J 180 $\Omega$ (#02)           R92         7010004250         RESISTOR         R20J 3.3 k $\Omega$ (#02)	B .	1					
R80         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R80         7010004101         RESISTOR         R20 T-24J 180 $\Omega$ (#03)           R81         7010003300         RESISTOR         ELR20J 150 $\Omega$ R82         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R83         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R85         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R86         701000451         RESISTOR         R20 T-24J 100 k $\Omega$ R88         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R89         7010003660         RESISTOR         ELR20J 100 k $\Omega$ R91         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R91         7010004101         RESISTOR         R20J 180 $\Omega$ (#02)           R92         7010004250         RESISTOR         R20J 3.3 k $\Omega$ (#02)	E .	1					
R81			i e				
R82 7010003660 RESISTOR ELR20J 100 kΩ R83 7010003660 RESISTOR ELR20J 100 kΩ R85 7010003660 RESISTOR ELR20J 100 kΩ R86 701000451 RESISTOR R20 T-24J 100 kΩ R88 7010003660 RESISTOR ELR20J 100 kΩ R89 7010003660 RESISTOR ELR20J 100 kΩ R91 7010004100 RESISTOR R20J 180 Ω (#02) R91 7010004101 RESISTOR R20 T-24J 180 Ω (#03) R92 7010004250 RESISTOR R20J 3.3 kΩ (#02)	R80	7010004101					
R83         7010003660         RESISTOR         ELR20J 100 kΩ           R85         7010003660         RESISTOR         ELR20J 100 kΩ           R86         7010004451         RESISTOR         R20 T-24J 100 kΩ           R88         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R91         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R91         7010004101         RESISTOR         R20 T-24J 180 $\Omega$ (#03)           R92         7010004250         RESISTOR         R20J 3.3 kΩ (#02)				=			
R85         7010003660         RESISTOR         ELR20J 100 kΩ           R86         7010004451         RESISTOR         R20 T-24J 100 kΩ           R88         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R91         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R91         7010004101         RESISTOR         R20 T-24J 180 $\Omega$ (#03)           R92         7010004250         RESISTOR         R20J 3.3 k $\Omega$ (#02)	1	i					
R86         7010004451         RESISTOR         R20 T-24J 100 kΩ           R88         7010003660         RESISTOR         ELR20J 100 kΩ           R89         7010003660         RESISTOR         ELR20J 100 kΩ           R91         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R91         7010004101         RESISTOR         R20 T-24J 180 $\Omega$ (#03)           R92         7010004250         RESISTOR         R20J 3.3 k $\Omega$ (#02)		1					
R89         7010003660         RESISTOR         ELR20J 100 kΩ           R91         7010004100         RESISTOR         R20J 180 $\Omega$ (#02)           R91         7010004101         RESISTOR         R20 T-24J 180 $\Omega$ (#03)           R92         7010004250         RESISTOR         R20J 3.3 k $\Omega$ (#02)				R20 T-24J 100 kΩ			
R91   7010004100   RESISTOR   R20J 180 Ω (#02)   R91   7010004101   RESISTOR   R20 T-24J 180 Ω (#03)   R92   7010004250   RESISTOR   R20J 3.3 kΩ (#02)		1					
R91 7010004101 RESISTOR R20 T-24J 180 Ω (#03) R92 7010004250 RESISTOR R20J 3.3 kΩ (#02)							
R92 7010004250 RESISTOR R20J 3.3 kΩ (#02)				• • • •			
1 1	•						
	R92	7010004251		• • • •			
R93							
RESISTOR R20J 470 Ω (#02)	L 194	7010004130	ILGIGION	11200 710 22 (4702)			

PLL (							
REF. NO.	ORDER NO.	DESCRIPTION					
R94	7010004251	RESISTOR	R20 T-24J 3.3 kΩ (#03)				
R95	7010003300	RESISTOR	ELR20J 150 Ω R20J 470 Ω (#02)				
R96 R96	7010004150 7010004251	RESISTOR	R20 T-24J 3.3 kΩ (#03)				
R97	7010003300	RESISTOR	ELR20J 150 Ω				
R98	7010003460	RESISTOR	ELR20J 3.3 kΩ				
R99	7010003780	RESISTOR RESISTOR	ELR20J 1 MΩ R20J 1 MΩ (#02)				
R100 R100	7010004570 7010004571	RESISTOR	R20 T-24J 1 MΩ (#03)				
R101	7010003360	RESISTOR	ELR20J 470 Ω				
R102	7010004321	RESISTOR	R20 T-24J 10 kΩ				
R103 R104	7010000991 7010003480	RESISTOR RESISTOR	R25X T-24J 47 Ω ELR20J 4.7 kΩ				
R105	7010003480	RESISTOR	R20 T-24J 220 Ω				
R106	7010003340	RESISTOR	ELR20J 330 Ω				
R107	7010003991	RESISTOR	R20 T-24J 22 Ω ELR20J 1 kΩ				
R108 R109	7010003400 7010003490	RESISTOR RESISTOR	ELR20J 5.6 kΩ				
R110	7010004031	RESISTOR	R20 T-24J 47 Ω				
R111	7010003220	RESISTOR	ELR20J 33 Ω				
R112	7010003320	RESISTOR RESISTOR	ELR20J 220 Ω ELR20J 820 Ω				
R113 R114	7010003390	RESISTOR	R20J 5.6 Ω (#02)				
R114	7010003921	RESISTOR	R20 T-24J 5.6 Ω (#03)				
R115	7010003390	RESISTOR	ELR20J 820 Ω				
R116 R116	7010001150 7010001151	RESISTOR RESISTOR	R25XJ 1 kΩ (#02) R25X T-24J 1 kΩ (#03)				
R117	7010001131	RESISTOR	R20 T-24J 1 kΩ				
R118	7010004191	RESISTOR	R20 T-24J 1 kΩ				
R119	7010001070	RESISTOR	R25XJ 220 Ω (#02)				
R119	7010001071 7010004270	RESISTOR RESISTOR	R25X T-24J 220 Ω (#03) R20J 4.7 kΩ				
R121 R123	7010004270	RESISTOR	ELR20J 100 Ω				
R124	7010004150	RESISTOR	R20J 470 Ω (#02)				
R124	7010004151	RESISTOR	R20 T-24J 470 Ω (#03)				
R125 R126	7010003620 7010003420	RESISTOR RESISTOR	ELR20J 47 kΩ ELR20J 1.5 kΩ				
R127	7010000951	RESISTOR	R25X T-24J 22 Ω				
R128	7010004150	RESISTOR	R20J 470 Ω				
R129	7010004111	RESISTOR RESISTOR	R20 T-24J 220 Ω R20 T-24J 1 kΩ				
R130 R131	7010004191 7010004191	RESISTOR	R20 T-24J 1 kΩ				
R132	7010004191	RESISTOR	R20 T-24J 1 kΩ				
R133	7010004271	RESISTOR	R20 T-24J 4.7 kΩ				
R134 R136	7010003160 7010003580	RESISTOR RESISTOR	ELR20J 10 Ω ELR20J 22 kΩ				
R137	7010003660	RESISTOR	ELR20J 100 kΩ				
R138	7010003300	RESISTOR	ELR20J 150 Ω				
R141	7010003460	RESISTOR	ELR20J 3.3 kΩ R20J 330 Ω (#02)				
R142 R142	7010004130 7010004131	RESISTOR RESISTOR	R20 T-24J 330 Ω (#03)				
R143	7010003280	RESISTOR	ELR20J 100 Ω				
R144	7010003280	RESISTOR	ELR20J 100 Ω				
R145 R146	7010004031 7010004071	RESISTOR RESISTOR	R20 T-24J 47 Ω R20 T-24J 100 Ω				
R147	7010003571	RESISTOR	ELR20J 10 kΩ				
R149	7010004071	RESISTOR	R20 T-24J 100 Ω				
R150	7010003400	RESISTOR	ELR20J 1 kΩ				
R151 R152	7010004430 7010003440	RESISTOR RESISTOR	R20J 68 kΩ ELR20J 2.2 kΩ				
R152	7010003440	RESISTOR	ELR20J 100 Ω				
R155	7010001150	RESISTOR	R25XJ 1 kΩ (#02)				
R155	7010001151	RESISTOR	R25X T-24J 1 kΩ (#03)				
R156 R157	7010003480	RESISTOR RESISTOR	ELR20J 4.7 kΩ ELR20J 15 kΩ				
R158	7010003360	RESISTOR	ELR20J 470 Ω				
R159	7010003240	RESISTOR	ELR20J 47 Ω				
R160	7010004110	RESISTOR	R20J 220 Ω ELR20J 10 kΩ				
R161 R162	7010003530 7010003410	RESISTOR RESISTOR	ELR20J 10 kΩ				
R163	7010003580	RESISTOR	ELR20J 22 kΩ				
R164	7010004430	RESISTOR	R20J 68 kΩ (#02)				
R164	7010004431 7010003330	RESISTOR RESISTOR	R20 T-24J 68 kΩ (#03) ELR20J 270 Ω				
R165 R166	7010003330	RESISTOR	R20 T-24J 100 Ω				
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REF. ORDER	[FEE (	<del></del>	I		1		00050		
Pisto   Priococcide   Pisto	REF. NO.	ORDER NO.						DESCRIPTION	
First	R167	7010004321	RESISTOR	R20 T-24J 10 kΩ		C43	4010000500	CERAMIC	DD104 B 102K 50V
1770   17010035500   RESISTOR   ELRQU 47 NO		7010004321	RESISTOR	R20 T-24J 10 kΩ		-	1		
Pit72   17010003500   RESISTOR   ELREAU 47 NO	R169	7010003530	RESISTOR			4	1	1 -	
FIT22		1	ı				L.		
1973   701000490   1983  1970   197		i	i				E .		
1777   7010004901   RESISTOR R20 T-244 10 N.D		I.	1						
1717   17010004321   RESISTOR   720 T-244 10 kg   10		1	ł.	, ,					
RESISTOR   RESISTOR   REROULATO   C55   4010000800   CERAMIC   DD104 SL 010C 50V   RESISTOR   RESISTOR   REROULATO   C55   4010008000   CERAMIC   DD106 CH 470J 50V   RESISTOR   RESISTOR   REROULATO   C55   4010008000   CERAMIC   DD106 CH 470J 50V   RESISTOR   RE			I .		l				
RESISTOR		1			1				
RESISTOR   ELR20J 470 Q   C55		1							DD106 CH 470J 50V
171000340   RESISTOR   ELRZ0J 1 NO   C59   4010000700   CERAMIC   D1010 601 4701 509   CERAMIC   D1010 401 1000 509   CERAMIC   D1010 61 1203 509   CERAMIC   D1010 61	R177	7010003360	RESISTOR	ELR20J 470 Ω		C55	4010000870	CERAMIC	
Product	1	1					•		
File		1				1	ľ		
RESISTOR   R20 T-24 J 20 AC   C82		1	1				1		
RESISTOR   RESISTOR   ELR2D J 10 kg   C84   4010000520   CERAMIC   D104 CH 1203 50V   C85   R207   7010003580   RESISTOR   ELR2D J 40 kg   C84   4010000520   CERAMIC   D104 CH 1203 50V   C85   R207   7010003580   RESISTOR   ELR2D J 40 kg   C85   4010000520   CERAMIC   D104 SL 1010 50V   C85   R207			l .				1		
Page			l.				1		
Page   Prof.   Page					1		1		
R209						ł .	1		DD108 B 472K 50V
Part			RESISTOR	ELR20J 470 Ω		C65	4010000520	CERAMIC	DD108 B 472K 50V
R211	R209	7010003280	RESISTOR	ELR20J 100 Ω		C66	4010000020		
2214   710000350   AFRAY   RMX. 7 103K   C69   4010000630   CFRAMIC   D1014 C1 030C 50V	R210	7010004321					1		
RESISTOR   RESISTOR   RESISTOR   REDQ   100 \(  \)		1					1		
R216	l .	1					1		
R216		l i				1	l .		
RESISTOR   ELR20J 10 kg		1					I		
Resistor		1					l .		
Page		1					l .		
R222		1					l .		
R224   7610000280   THERMISTOR   ERT-D2ZGL 102S   C79   4010000200   CERAMIC   DD104 SL 010C 50V   RESISTOR   ELR20J 3.9 kΩ   C80   4010000280   CERAMIC   DD104 SL 2470J 50V   C81   4010000280   CERAMIC   DD104 SL 2470J 50V   C82   4040000150   BARRIER   UAT 08X 473M   C83   4010000280   CERAMIC   DD104 SL 2470J 50V   C84   4040000250   BARRIER   UAT 08X 473M   C83   4010000500   CERAMIC   DD104 SL 102K 50V   C85   4010000500   CERAMIC   DD104 SL 102K 50V   C85   4010000500   CERAMIC   DD104 SL 102K 50V   C86   4010000500   CERAMIC   DD104 SL 102K 50V   C85   4010000500   CERAMIC   DD104 SL 102K 50V   C89   4010000160   CERAMIC   DD104 SL 100X 50V   C89   4010000		1		R20J 47 kΩ		C77	4510004990	ELECTROLYTIC	16 MV 100 HC
R225	R222	7010003530	RESISTOR			ĺ.	l .		
R228   7010003820   RESISTOR   ELR20J 220 Ω   C81   4010000260   C81   A010000820   C82   A010000820   C83   A010000820   C82   A010000820   C8		1					1		
RESISTOR		i .					1		
C1 4010000500 CERAMIC DD104 B 102K 50V C35 4010000500 CERAMIC DD104 B 102K 50V C36 4010000180 CERAMIC DD104 B 102K 50V C36 4040000180 CERAMIC DD104 B 102K 50V C36 4040000150 CERAMIC DD108 B 472K 50V C36 4040000150 CERAMIC DD108 B 472K 50V C36 4040000250 CERAMIC DD104 SL 800 50V C36 4040000250 CERAMIC DD104 CH 200 50V C36 404		1					1		
C1	H226	7010003620	RESISTOR	ELR203 47 KΩ			l .		
C1									
C23	C1	4010000500	CERAMIC	DD104 B 102K 50V			P .		
C4						C86	4010000500		DD104 B 102K 50V
C5	C3	4510003830	ELECTROLYTIC	50 MV R47 SW		C87	4010000240		
C6									
CB		1							
C91		1							
C10									
C11 455000340 TANTALUM DN 1C 100M C24 4550000340 TANTALUM DN 1C 100M C34 4550000340 TANTALUM DN 1C 100M C34 4550000340 TANTALUM DN 1C 2R2M C34 4010000520 CERAMIC DD108 B 472K 50V C14 4040000260 BARRIER UZE 08X 104M C96 4010000520 CERAMIC DD108 B 472K 50V C15 4010000810 CERAMIC DD105 CH 300J 50V C98 4010000520 CERAMIC DD108 B 472K 50V C16 4010000810 CERAMIC DD105 CH 300J 50V C99 4010000300 CERAMIC DD108 B 472K 50V C17 4550000400 TANTALUM DN 1C 2R2M C10 401000080 CERAMIC DD104 SL 680J 50V C19 4040000260 BARRIER UZE 08X 104M C10 401000080 CERAMIC DD104 SL 800J 50V C19 4040000260 BARRIER UZE 08X 104M C10 401000080 CERAMIC DD104 SL 820J 50V C20 4510004000 ELECTROLYTIC 16 MV 100 HW (6.3X11) C103 4010000310 CERAMIC DD104 SL 180J 50V C25 4010004840 CERAMIC DD305 F 104Z 12V C26 4010000520 CERAMIC DD108 B 472K 50V C105 4010000520 CERAMIC DD108 B 472K 50V C110 4010000020 CERAMIC DD108 B 472K 50V C110 4010000020 CERAMIC DD108 B 472K 50V C110 4010000020 CERAMIC DD108 B 472K 50V C111 4010000440 CERAMIC DD108 B 472K 50V C111 4010000520 CERAMIC DD108 CERAMIC DD108 CERAMIC DD108 CERAMIC DD108 CERAMIC DD	9	i i					1		
C12	3								
C13							1		
C15 4010000810 CERAMIC DD105 CH 300J 50V C17 4550000400 TANTALUM DN 1C 2R2M C18 4510003910 ELECTROLYTIC 16 MV 47 HW C101 4010000260 BARRIER UAT 08X 473M C26 4010000520 CERAMIC DD104 SL 22V C26 4010000520 CERAMIC DD108 B 472K 50V C106 4010000520 CERAMIC DD108 B 472K 50V C107 4040000250 BARRIER UAT 08X 473M C110 4010000520 CERAMIC DD108 B 472K 50V C109 4010000460 CERAMIC DD108 B 472K 50V C110 4010000400 CERAMIC DD108 B 472K 50V C110 4010000400 CERAMIC DD108 B 472K 50V C111 4010000400 CERAMIC DD107 SL 331J 50V C112 4040000190 CERAMIC DD107 SL 331J 50V C112 4040000190 CERAMIC DD107 SL 331J 50V C113 4010000440 CERAMIC DD108 B 472K 50V C115 4010000520 CERAMIC DD108 B 472K 50V C116 4010000520 CERAMIC DD108 CER		4550000400		DN 1C 2R2M		C96	4010000520	CERAMIC	DD108 B 472K 50V
C16	C14	4040000260	BARRIER	UZE 08X 104M			1		
C17 455000400 TANTALUM DN 1C 2R2M C100 401000080 CERAMIC DD104 SL 060D 50V C19 4040000260 BARRIER UZE 08X 104M C101 4010000320 CERAMIC DD104 SL 180J 50V C24 4510004000 ELECTROLYTIC 10 MV 100 HW (6.3X11) C102 4010000310 CERAMIC DD104 SL 750J 50V C24 4010000520 BARRIER UAT 08X 473M C104 4010000520 CERAMIC DD108 B 472K 50V C25 4010004840 CERAMIC DD108 B 472K 50V C26 4010000520 CERAMIC DD108 B 472K 50V C105 4010004840 CERAMIC DD108 B 472K 50V C105 4010000520 CERAMIC DD108 B 472K 50V C27 4510004000 ELECTROLYTIC 10 MV 100 HW (6.3X11) C107 4040000250 BARRIER UAT 08X 473M C107 4040000520 CERAMIC DD108 B 472K 50V C29 4510004450 ELECTROLYTIC 50 MV R47 NPDW C109 4010000520 CERAMIC DD108 B 472K 50V C31 4010003460 CERAMIC DD104 UJ 330J 50V C110 401000060 CERAMIC DD104 B 471K 50V C32 4040000250 BARRIER UAT 08X 473M C110 4010000520 CERAMIC DD104 B 471K 50V C33 40100003460 CERAMIC DD104 UJ 330J 50V C110 4010000460 CERAMIC DD104 B 471K 50V C33 4010000770 CERAMIC DD107 CH 101J 50V C112 4040000190 BARRIER UAT 08X 473M C113 4010000400 CERAMIC DD107 SL 331J 50V C112 4040000190 BARRIER UAT 08X 473M C113 4010000460 CERAMIC DD107 SL 331J 50V C113 4010000460 CERAMIC DD107 SL 331J 50V C114 4040000190 BARRIER UAT 08X 473M C114 4550000400 TANTALUM DN 1C 2R2M C34 4010000770 CERAMIC DD107 CH 680J 50V C115 401000620 CERAMIC DD108 B 472K 50V C38 4010000720 CERAMIC DD104 CH 220J 50V C116 4010000520 CERAMIC DD106 CH 620J 50V C117 4010000600 CERAMIC DD106 CH 620J 50V C118 4010000520 CERAMIC DD106 CH 620J 50V C							1		
C18									
C19							1		
C20 4510004000 ELECTROLYTIC 10 MV 100 HW (6.3X11) C103 4010000310 CERAMIC DD104 SL 750J 50V C25 4010004840 CERAMIC DD305 F 104Z 12V C26 4010000520 CERAMIC DD108 B 472K 50V C27 4510004000 ELECTROLYTIC 10 MV 100 HW (6.3X11) C28 4010000500 CERAMIC DD104 B 102K 50V C29 4510004450 ELECTROLYTIC 50 MV R47 NPDW C31 4010000540 CERAMIC DD104 B 102K 50V C31 40100004450 CERAMIC DD104 UJ 330J 50V C32 4040000250 BARRIER UAT 08X 473M C10 4010000520 CERAMIC DD104 B 471K 50V C33 4010000940 CERAMIC DD107 CH 101J 50V C34 4010000770 CERAMIC DD104 CH 200J 50V C35 4610001130 TRIMMER CVSSA1001 TRIMMER CVSSA1001 C38 4010000720 CERAMIC DD107 CH 680J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD108 B 472K 50V C116 4010000680 CERAMIC DD104 CH 220J 50V C39 4010000720 CERAMIC DD108 B 472K 50V C117 4010000600 CERAMIC DD104 CH 220J 50V C41 4010000520 CERAMIC DD106 CH 470J 50V C117 4010000600 CERAMIC DD106 CH 470J 50V C118 4010000600 CERAMIC DD106 CH 470J 50V C119 4010000600 CERAMIC DD106 CH 470J 50V C116 4010000660 CERAMIC DD106 CH 470J 50V C117 4010000660 CERAMIC DD106 CH 470J 50V C118 4010000660 CERAMIC DD106 CH 470J 50V C118 4010000660 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD104 CH 120J 50V C119 4010000720 CERAMIC DD104		1							
C24   4040000250   BARRIER   UAT 08X 473M   C25   4010004840   CERAMIC   DD305 F 104Z 12V   C26   401000520   CERAMIC   DD108 B 472K 50V   C27   4510004000   ELECTROLYTIC   DD104 B 102K 50V   C29   4510004450   ELECTROLYTIC   DD104 B 102K 50V   C31   4010003460   CERAMIC   DD104 B 102K 50V   C32   4040000250   BARRIER   UAT 08X 473M   C33   401000940   CERAMIC   DD104 CH 120J 50V   C35   461000130   TRIMMER   CVSSA1001   C36   4010000720   CERAMIC   DD107 CH 680J 50V   C39   4010000720   CERAMIC   DD104 CH 120J 50V   C39   4010000720   CERAMIC   DD104 CH 120J 50V   C39   4010000720   CERAMIC   DD104 CH 120J 50V   C31   4010000720   CERAMIC   DD104 CH 120J 50V   C39   4010000720   CERAMIC   DD104 CH 120J 50V   C31   4010000720   CERAMIC   DD106 CH 470J 50V   C39   4010000720   CERAMIC   DD104 CH 120J 50V   C31   4010000860   CERAMIC   DD106 CH 470J 50V   C31   4010000520   CERAMIC   DD106 CH 470J 50V   C3		1					I i i		
C25				, ,			1		
C27							1		DD305 F 104Z 12V
C28	C26	4010000520	CERAMIC	DD108 B 472K 50V		C106	4010000520	CERAMIC	DD108 B 472K 50V
C29 4510004450 ELECTROLYTIC 50 MV R47 NPDW C31 4010003460 CERAMIC DD104 UJ 330J 50V C32 4040000250 BARRIER UAT 08X 473M C33 4010000940 CERAMIC DD107 CH 101J 50V C35 4610001130 TRIMMER CVSSA1001 C36 4010000900 CERAMIC DD107 CH 680J 50V C38 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C40 4010000520 CERAMIC DD108 B 472K 50V C41 4010000520 CERAMIC DD108 B 472K 50V C41 4010000520 CERAMIC DD108 B 472K 50V C118 4010000860 CERAMIC DD106 CH 470J 50V C41 4010000520 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD106 CH 470J 50V C41 4010000520 CERAMIC DD108 B 472K 50V C119 4010000720 CERAMIC DD106 CH 470J 50V C118 4010000720 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD104 CH 120J 50V		l							
C31 4010003480 CERAMIC DD104 UJ 330J 50V C32 4040000250 BARRIER UAT 08X 473M C33 4010000940 CERAMIC DD107 CH 101J 50V C112 4040000190 BARRIER UAT 05X 103K C34 4010000770 CERAMIC DD104 CH 200J 50V C113 401000410 CERAMIC DD305 F 104Z 12V C35 461000130 TRIMMER CVSSA1001 C114 4550000400 TANTALUM DN 1C 2R2M C136 4010000720 CERAMIC DD107 CH 680J 50V C38 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C40 4010000520 CERAMIC DD108 B 472K 50V C39 4010000520 CERAMIC DD108 B 472K 50V C41 4010000520 CERAMIC DD108 B 472K 50V C116 4010000660 CERAMIC DD106 CH 620J 50V C41 4010000520 CERAMIC DD108 B 472K 50V C118 401000060 CERAMIC DD106 CH 470J 50V C41 4010000520 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD104 CH 120J 50V									7
C32 4040000250 BARRIER UAT 08X 473M C33 4010000940 CERAMIC DD107 CH 101J 50V C34 4010000770 CERAMIC DD104 CH 20J 50V C35 461000170 CERAMIC DD107 CH 680J 50V C38 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C40 4010000520 CERAMIC DD108 B 472K 50V C41 4010000520 CERAMIC DD108 B 472K 50V C118 4010000890 CERAMIC DD106 CH 620J 50V C41 4010000520 CERAMIC DD108 B 472K 50V C118 4010000860 CERAMIC DD106 CH 470J 50V C41 4010000520 CERAMIC DD108 B 472K 50V C119 4010000720 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD104 CH 120J 50V C119 4010000720 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD104 CH 120J 50V	1	l					F		
C33	1			·			į.		
C34		l I							
C35 4610001130 TRIMMER CVSSA1001 C114 4550000400 TANTALUM DN 1C 2R2M C115 4010000520 CERAMIC DD107 CH 680J 50V C38 4010000720 CERAMIC DD104 CH 120J 50V C39 4010000720 CERAMIC DD104 CH 120J 50V C40 4010000520 CERAMIC DD108 B 472K 50V C116 4010000890 CERAMIC DD106 CH 620J 50V C117 4010000890 CERAMIC DD106 CH 620J 50V C118 4010000520 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD104 CH 120J 50V		l I							
C36		l I							
C38		1 1							DD108 B 472K 50V
C40 4010000520 CERAMIC DD108 B 472K 50V C118 4010000860 CERAMIC DD106 CH 470J 50V C119 4010000720 CERAMIC DD104 CH 120J 50V		! I		DD104 CH 120J 50V					
C41 4010000520 CERAMIC DD108 B 472K 50V C119 4010000720 CERAMIC DD104 CH 120J 50V		1 1					1		
		1 1							
1 042   40 10000040   CERAMIC DD 104 SE 0200 504   1 0120   40 10000120   CERAMIC DD 104 CH 1200 504							l I		
	U42	+010000040	DETIMINE	DD 104 GE 0200 30V		0120	7010000720	OLI IZIMIO	DD 107 OH 1200 307

REF. NO.	ORDER NO.	D	ESCRIPTION	REF. NO.	ORDER NO.		DESCRIPTION
C121	4040000150	BARRIER	UAT 05X 472K	J1	6510003390	CONNECTOR	B03B-EH-S
C121	4510003790	ELECTROLYTIC	16 MV 10 SW	J2	6510003430	CONNECTOR	B07B-EH-S
C123	4010000500	CERAMIC	DD104 B 102K 50V	J3	6510003400	CONNECTOR	B04B-EH-S
C124	4010000520	CERAMIC	DD108 B 472K 50V	J4	6510003450	CONNECTOR	B09B-EH-S
C125	4010000520	CERAMIC	DD108 B 472K 50V	J5	6510003390	CONNECTOR	B03B-EH-S
C126	4010000380	CERAMIC	DD107 SL 221J 50V	J6	6510003400	CONNECTOR	B04B-EH-S
C127	4010004840	CERAMIC	DD305 F 104Z 12V	J7	6510003430	CONNECTOR	B07B-EH-S
C128	4010004840	CERAMIC	DD305 F 104Z 12V	J8	6450000140	CONNECTOR	HSJ0807-01-010 [CI-V]
C129	4040000150	BARRIER	UAT 05X 472K	J14	6510014270	CONNECTOR	51052-1200
C130	4010000500	CERAMIC	DD104 B 102K 50V	J15	6510014280	CONNECTOR	51052-0900
C131	4040000260	BARRIER	UZE 08X 104M		1		
C132	4510003910	ELECTROLYTIC	16 MV 47 HW	1 1			
C133	4010000270	CERAMIC	DD104 SL 510J 50V	W1	6910001030	JUMPER	IPS-1041-4
C134	4610001120	TRIMMER	CVSSC2001	W3	6910001020	JUMPER	IPS-1041-2
C135	4010003100	CERAMIC	DD106 TH 820J 50V	W4	6910001020	JUMPER	IPS-1041-2
C136	4010000520	CERAMIC	DD108 B 472K 50V	W5	6910001030	JUMPER	IPS-1041-4
C137	4010000520	CERAMIC	DD108 B 472K 50V	W7	6910001020	JUMPER	IPS-1041-2
C138	4010003100	CERAMIC	DD106 TH 820J 50V	W8	6910001020	JUMPER	IPS-1041-2
C139	4550000320	TANTALUM	DN 1V OR1M	W9	6910001020	JUMPER	IPS-1041-2
C140	4010000520	CERAMIC	DD108 B 472K 50V	W10	6910001020	JUMPER	IPS-1041-2
C141	4010000500	CERAMIC	DD104 B 102K 50V	W11	6910001020	JUMPER	IPS-1041-2
C142	4010000500	CERAMIC	DD104 B 102K 50V	W12	6910001030	JUMPER	IPS-1041-4
C143	4010000500	CERAMIC	DD104 B 102K 50V	W13	6910001030	JUMPER	IPS-1041-4
C144	4010000380	CERAMIC	DD107 SL 221J 50V	W14	6910001020	JUMPER	IPS-1041-2
C145	4010004840	CERAMIC	DD305 F 104Z 12V	W16	6910001030	JUMPER	IPS-1041-4
C146	4010000100	CERAMIC	DD104 SL 080D 50V	W17	6910001020	JUMPER	IPS-1041-2
C147	4010000520	CERAMIC	DD108 B 472K 50V	W18	6910001030	JUMPER	IPS-1041-4
C148	4010000010	CERAMIC	DD104 SL 0R5C 50V	W19	6910001030	JUMPER	IPS-1041-4
C149	4010000100	CERAMIC	DD104 SL 080D 50V	W20	6910001030	JUMPER	IPS-1041-4
C150	4010000520	CERAMIC	DD108 B 472K 50V	W21	6910001030	JUMPER	IPS-1041-4
C151	4010004840	CERAMIC	DD305 F 104Z 12V	W22	6910001030	JUMPER	IPS-1041-4
C152	4010004840	CERAMIC	DD305 F 104Z 12V	W23	6910001020	JUMPER	IPS-1041-2
C153	4510004600	ELECTROLYTIC	16 MV 1000 HC	W24	6910001030	JUMPER	IPS-1041-4
C154	4040000190	BARRIER	UAT 05X 103K	W25	6910001030	JUMPER	IPS-1041-4
C155	4040000190	BARRIER	UAT 05X 103K	W26	6910001030	JUMPER JUMPER	IPS-1041-4 IPS-1041-2
C156	4040000190	BARRIER	UAT 05X 103K	W27 W28	6910001020 6910001020	JUMPER	IPS-1041-2
C157	4010000520	CERAMIC	DD108 B 472K 50V	W28 W30	6910001020	JUMPER	IPS-1041-4
C158	4010000520 4010000520	CERAMIC CERAMIC	DD108 B 472K 50V	W30 W31	6910001030	JUMPER	IPS-1041-2
C159	4020000180	CYLINDER	DD108 B 472K 50V UP125 B 471K	W32	6910001030	JUMPER	IPS-1041-4
C160 C161	4040000190	BARRIER	UAT 05X 103K	W33	6910001030	JUMPER	IPS-1041-2
C162	4010000210	CERAMIC	DD104 SL 300J 50V	W34	6910001020	JUMPER	IPS-1041-2
C162	4010000210	CERAMIC	DD104 SL 220J 50V	W35	6910001020	JUMPER	IPS-1041-2
C164	4010000100	CERAMIC	DD104 SL 300J 50V	W36	6910001030	JUMPER	IPS-1041-4
C165	4020000260	CYLINDER	TP125 X 103M	W37	6910001020	JUMPER	IPS-1041-2
C166	4040000250	BARRIER	UAT 08X 473M	W38	6910001030	JUMPER	IPS-1041-4
C167	4040000250	BARRIER	UAT 08X 473M	W39	6910001030	JUMPER	IPS-1041-4
C168	4040000250	BARRIER	UAT 08X 473M	W40	6910001020	JUMPER	IPS-1041-2
C169	4010000010	CERAMIC	DD104 SL 0R5C 50V	W41	6910001020	JUMPER	IPS-1041-2
C190	4510003970	ELECTROLYTIC	50 MV 2R2 HW	W42	6910001030	JUMPER	IPS-1041-4
C196	4550000400	TANTALUM	DN 1C 2R2M	W43	6910001030	JUMPER	IPS-1041-4
C197	4010000050	CERAMIC	DD104 SL 030C 50V	W44	6910001020	JUMPER	IPS-1041-2
C199	4010000500	CERAMIC	DD104 B 102K 50V	W45	6910001020	JUMPER	IPS-1041-2
C200	4010000520	CERAMIC	DD108 B 472K 50V	W46	6910001030	JUMPER	IPS-1041-4
C201	4010000520	CERAMIC	DD108 B 472K 50V	W47	6910001030	JUMPER	IPS-1041-4
C202	4530000270	ARRAY	B8XC0114-32N	W48	6910001030	JUMPER	IPS-1041-4
C203	4010000520	CERAMIC	DD108 B 472K 50V	W49	6910001020	JUMPER	IPS-1041-2
C204	4010000520	CERAMIC	DD108 B 472K 50V	W50	6910001020	JUMPER	IPS-1041-2
C205	4610001130	TRIMMER	CVSSA1001	W51	6910001030	JUMPER	IPS-1041-4
C206	4010000520	CERAMIC	DD108 B 472K 50V	W52	6910001020	JUMPER	IPS-1041-2
C207	4010000520	CERAMIC	DD108 B 472K 50V	W53	6910001030	JUMPER	IPS-1041-4
C208	4010004840	CERAMIC	DD305 F 104Z 12V	W54	6910001030	JUMPER	IPS-1041-4
C209	4010004840	CERAMIC	DD305 F 104Z 12V	W56	6910001030	JUMPER	IPS-1041-4
C210	4010000520	CERAMIC	DD108 B 472K 50V	W58	6910001020	JUMPER	IPS-1041-2
C211	4040000190	BARRIER	UAT 05X 103K	W59	6910001020	JUMPER	IPS-1041-2
				W60	6910001030	JUMPER	IPS-1041-4
				W61	6910001030	JUMPER	IPS-1041-4
S1	2230000700	SWITCH	SPPJ31309A	W62	6910001020	JUMPER	IPS-1041-2
			[TUNER SELECTION	W63	6910001020	JUMPER	IPS-1041-2
			SWITCH]	W64	6910001030	JUMPER	IPS-1041-4
				W65	6910001020	JUMPER	IPS-1041-2
				W66	6910001020	JUMPER	IPS-1041-2
		LITHIUM	BR2032-1T2	W67	6910001030	JUMPER	IPS-1041-4
BT1	3020000020	LITHION	DIIZOUZ IIZ		1		
BT1	3020000020	LITHIOM		W68 W69	6910001030 6910001030	JUMPER JUMPER	IPS-1041-4 IPS-1041-4

#### [PLL UNIT]

#### **ORDER** DESCRIPTION NO. NO. IPS-1041-4 W70 6910001030 **JUMPER JUMPER** IPS-1041-4 6910001030 W71 JUMPER IPS-1041-4 W72 6910001030 6910001030 JUMPER IPS-1041-4 W73 W74 6910001020 **JUMPER** IPS-1041-2 **JUMPER** IPS-1041-4 6910001030 W75 IPS-1041-4 W76 6910001030 JUMPER W77 6910001030 **JUMPER** IPS-1041-4 **JUMPER** IPS-1041-4 W78 6910001030 **JUMPER** IPS-1041-4 6910001030 W79 JUMPER IPS-1041-4 W80 6910001030 6910001030 JUMPER IPS-1041-4 W81 6910001020 JUMPER IPS-1041-2 W82 W83 6910001030 **JUMPER** IPS-1041-4 JUMPER IPS-1041-4 6910001030 W84 JUMPER IPS-1041-4 W86 6910001030 W88 6910001030 **JUMPER** IPS-1041-4 6910001020 **JUMPER** IPS-1041-2 W89 **JUMPER** IPS-1041-2 Wgn 6910001020 W91 6910001030 JUMPER IPS-1041-4 W92 6910001030 **JUMPER** IPS-1041-4 **JUMPER** IPS-1041-2 6910001020 W93 IPS-1041-4 W94 6910001030 JUMPER **JUMPER** IPS-1041-2 W95 6910001020 6910001020 **JUMPER** IPS-1041-2 W96 W97 6910001020 **JUMPER** IPS-1041-2 **JUMPER** IPS-1041-4 6910001030 W98 W99 6910001030 JUMPER IPS-1041-4 W100 6910001030 **JUMPER** IPS-1041-4 **JUMPER** W101 6910001020 IPS-1041-2 6910001030 JUMPER IPS-1041-4 W102 JUMPER IPS-1041-4 W103 6910001030 W104 6910001030 **JUMPER** IPS-1041-4 6910001030 JUMPER IPS-1041-4 W105 W106 6910001030 **JUMPER** IPS-1041-4 JUMPER 6910001030 IPS-1041-4 W107 W108 6910001030 JUMPER IPS-1041-4 7120000010 **JUMPER** JPW 02A W109 JPW 02A 7120000010 **JUMPER** W110 JUMPER IPS-1041-2 W111 6910001020 IPS-1041-2 W112 6910001020 JUMPER W115 6910001020 **JUMPER** IPS-1041-2 6910001020 **JUMPER** IPS-1041-2 W116 6910001020 **JUMPER** IPS-1041-2 W117 JUMPÉR IPS-1041-2 W118 6910001020 W119 6910001020 **JUMPER** IPS-1041-2 W120 6910001020 **JUMPER** IPS-1041-2 6910001020 **JUMPER** IPS-1041-2 W121 6910001030 **JUMPER** IPS-1041-4 W122 **JUMPER** IPS-1041-2 W123 6910001020 W124 6910001020 JUMPER IPS-1041-2 W125 6910001020 **JUMPER** IPS-1041-2 **JUMPER** IPS-1041-4 W126 6910001030 6910001030 **JUMPER** IPS-1041-4 W127 IPS-1041-4 6910001030 **JUMPER** W128 W129 6910001020 **JUMPER** IPS-1041-2 W130 6910001030 **JUMPER** IPS-1041-4 **JUMPER** IPS-1041-4 W135 6910001030 6910001020 **JUMPER** IPS-1041-2 W143 IPS-1041-4 6910001030 JUMPER W144 W145 6910001020 **JUMPER** IPS-1041-2 6910001030 **JUMPER** IPS-1041-4 W146 W147 6910001020 **JUMPER** IPS-1041-2 **JUMPER** IPS-1041-4 6910001030 W148 JUMPER IPS-1041-2 W149 6910001020 W150 6910001030 **JUMPER** IPS-1041-4 6910001030 **JUMPER** IPS-1041-4 W151 W162 6910001020 **JUMPER** IPS-1041-2 **JUMPER** IPS-1041-2 W163 6910001020 IPS-1041-4 6910001030 JUMPER W165 W167 6910001030 JUMPER IPS-1041-4 W169 6910001030 **JUMPER** IPS-1041-4 W172 6910001030 **JUMPER** IPS-1041-4 6910001020 JUMPER IPS-1041-2 W173 **JUMPER** IPS-1041-4 6910001030 W174

#### [PLL UNIT]

	REF. NO.	ORDER NO.		DESCRIPTION
	W175	6910001020	JUMPER	IPS-1041-2
	W177	6910001020	JUMPER	IPS-1041-2
	W178	6910001020	JUMPER	IPS-1041-2
	W183	6910001020	JUMPER	IPS-1041-2
	W184	6910001020	JUMPER	IPS-1041-2
	W186	6910001020	JUMPER	IPS-1041-2
	W188	6910001020	JUMPER	IPS-1041-2
	W189	6910001030	JUMPER	IPS-1041-4
	W190	7120000380	JUMPER	JPW 01 R-01
	W191	6910001020	JUMPER	IPS-1041-2
	W192	7120000380	JUMPER	JPW 01 R-01
	W193	6910001030	JUMPER	IPS-1041-4
	W194	6910001030	JUMPER	IPS-1041-4
	W196	6910001030	JUMPER	IPS-1041-4
	W198	6910001030	JUMPER	IPS-1041-4
1	W199	6910001020	JUMPER	IPS-1041-2
	W200	6910001020	JUMPER	IPS-1041-2
1	W201	6910001030	JUMPER	IPS-1041-4
1	W204	6910001020	JUMPER	IPS-1041-2
ı	W205	6910001020	JUMPER	IPS-1041-2
	W206	6910001020	JUMPER	IPS-1041-2
	W207	6910001020	JUMPER	IPS-1041-2
	W208	6910001020	JUMPER	IPS-1041-2
	W209	6910001020	JUMPER	IPS-1041-2
	W210	6910001020	JUMPER	IPS-1041-2
	W211	6910001030	JUMPER	IPS-1041-4
	W212	6910001020	JUMPER	IPS-1041-2
	W213	6910001030	JUMPER	IPS-1041-4
	W214	6910001030	JUMPER	IPS-1041-4
	W215	6910001020	JUMPER	IPS-1041-2
	W221	8900003290	CABLE	OPC-337 OPC-338
	W222 W229	8900003300 6910001020	CABLE JUMPER	IPS-1041-2
	W230	6910001020	JUMPER	IPS-1041-4
	W230 W231	6910001030	JUMPER	IPS-1041-4
	W231	6910001030	JUMPER	IPS-1041-4
1	W232	6910001030	JUMPER	IPS-1041-4
	W234	6910001030	JUMPER	IPS-1041-4
1	W237	6910001020	JUMPER	IPS-1041-2
1	W238	6910001020	JUMPER	IPS-1041-4
1	W239	6910001030	JUMPER	IPS-1041-4
	W240	6910001030	JUMPER	IPS-1041-4
	W242	7120000010	JUMPER	JPW 02A
	W243	6910001020	JUMPER	IPS-1041-2
	W244	6910001020	JUMPER	IPS-1041-2
	EP2	0910033513	PCB	B 3272C (PLL)

#### [DDS UNIT]

•				
REF. NO.	ORDER NO.		DESCRIPTION	
IC1	1140000500	S. IC	SC1051	
IC2	1130005570	S. IC	SC1052	
IC3	1130005580	S. IC	SC1053	
IC4	1130006580	S. IC	TC74HCT374AF (TP1)	
IC5	1130006580	S. IC	TC74HCT374AF (TP1)	
IC6	1130003830	S. IC	TC7S04F (TE85R)	
X1	6050003230	XTAL	CR-180	
L1	6200000040	S. COIL	LQN 5N 331K	
12	6200000040	S. COIL	LQN 5N 331K	
L3	6200000040	S. COIL	LQN 5N 331K	
R1	7030000740	S. RESISTOR	MCR10EZHJ 1 MΩ (105)	

### [DDS UNIT]

2טען	011111		
REF. NO.	ORDER NO.	D	DESCRIPTION
R2	7030000360	S. RESISTOR	MCR10EZHJ 680 Ω (681)
R3	7030000420	S. RESISTOR	MCR10EZHJ 2.2 kΩ (222)
R4	7410000320	ARRAY	GF 5096
R5	7030000500	S. RESISTOR	MCR10EZHJ 10 kΩ (103)
R6	7030000500	S. RESISTOR	MCR10EZHJ 10 kΩ (103)
R7	7030000500	S. RESISTOR	MCR10EZHJ 10 kΩ (103)
C1	4610000520	S. TRIMMER	TZB04N100BA006
C2	4030000950	S. CERAMIC	GRM40 CH 330J 50PT
C3	4030001150	S. CERAMIC	GRM40 F 104Z 25PT
C7	403000720	S. CERAMIC	GRM40 SL 680J 50PT
C8	4030000560	S. CERAMIC	GRM40 SL 020C 50PT
C9	4030000750	S. CERAMIC	GRM40 SL 121J 50PT
C10	4030000610	S. CERAMIC	GRM40 SL 070D 50PT
C11	4030000750	S. CERAMIC	GRM40 SL 121J 50PT
C12	4030000640	S. CERAMIC	GRM40 SL 120J 50PT
C13	4030000720	S. CERAMIC	GRM40 SL 680J 50PT
C14	4030001150	S. CERAMIC	GRM40 F 104Z 25PT
C15	4030001150	S. CERAMIC	GRM40 F 104Z 25PT
C16	4030001150	S. CERAMIC	GRM40 F 104Z 25PT
C17	4030001150	S. CERAMIC	GRM40 F 104Z 25PT
C18	4030002430	S. CERAMIC	GRM40 TH 220J 50PT
C19	4030001100	S. CERAMIC	GRM40 B 102K 50PT
C20	4030001100	S. CERAMIC	GRM40 B 102K 50PT
G21	4030001150	S. CERAMIC	GRM40 F 104Z 25PT
J1	6510004950	CONNECTOR	3022-06B
J2	6510004960	CONNECTOR	3022-02B
EP1	0910028230	PCB	B 2853 (DDS)

### [PA PART]

ORDER NO.	DESCRIPTION			
2510000040	SPEAKER	C065K12I0810		
6510004880	CONNECTOR	MR-DS-E 01 [ANT]		
	NO. 2510000040	NO. 2510000040 SPEAKER		

### [FILTER UNIT]

REF. NO.	ORDER NO.		DESCRIPTION	
D1	1710000330	DIODE	1K60	
D2	1710000330	DIODE	1K60	
D3	1710000030	DIODE	1S1555	
D4	1710000030	DIODE	1S1555	
D5	1710000030	DIODE	1S1555	
D6	1710000030	DIODE	1S1555	
D7	1710000030	DIODE	1S1555	
D8	1710000030	DIODE	1S1555	
D9	1710000030	DIODE	1S1555	
L1	6140001990	COIL	LR-226	
L2	6140002000	COIL	LR-227	
L3	6140001780	COIL	LR-214	
L4	6140001780	COIL	LR-214	
L5	6140001800	COIL	LR-216	
L6	6140001800	COIL	LR-216	
L7	6140002010	COIL	LR-228	

#### [FILTER UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
L8	6140001810	COIL	LR-217
L9	6140002010	COIL	LR-228
L10	6140002020	COIL	LR-229
L11	6110001490	COIL	LA-196 LA-197
L12 L13	6110001500 6180000900	COIL	LA-197 LAL 03NA 101K
L13	6180000900	COIL	LAL 03NA 101K
L15	6180000900	COIL	LAL 03NA 101K
L16	6180000900	COIL	LAL 03NA 101K
L17	6180000900 6180000900	COIL	LAL 03NA 101K LAL 03NA 101K
L18 L19	6180000900	COIL	LAL 03NA 101K
L20	6180000900	COIL	LAL 03NA 101K
L21	6180000880	COIL	LAL 03NA 100K
L22	6180000880	COIL	LAL 03NA 100K
L23 L24	6180000880 6180000880	COIL	LAL 03NA 100K LAL 03NA 100K
L25	6180000900	COIL	LAL 03NA 101K
L26	6140001460	COIL	LR-170
L27	6140001340	COIL	LR-163
L28	6140001820	COIL	LR-218
L29	6140001800	COIL	LR-216
R1	7010004040	RESISTOR	R20J 56 Ω
R2	7010004320	RESISTOR	R20J 10 kΩ
R3	7010003530	RESISTOR	ELR20J 10 kΩ
R4	7010003620	RESISTOR	ELR20J 47 kΩ
R5	7010004320	RESISTOR	R20J 10 kΩ ELR20J 10 kΩ
R6 R7	7010003530 7010003740	RESISTOR RESISTOR	ELR20J 10 KΩ
R8	7540000010	ABSORBER	DSA-301LA
R9	7010004390	RESISTOR	R20J 33 kΩ
C1	4320000290	DIP MICA	DM20C 152J5
C2 C3	4010004040 4010004100	CERAMIC CERAMIC	DD10 SL 151K 500V DD14 SL 331K 500V
C5	4010004100	CERAMIC	DD14 3L 331K 500V
C6	4320000290	DIP MICA	DM20C 152J5
C7	4010004070	CERAMIC	DD12 SL 221K 500V
C8	4010005290	CERAMIC	DD12 SL 621K 500V DD12 SL 181K 500V
C10 C12	4010004050 4010004010	CERAMIC CERAMIC	DD09 SL 101K 500V
C13	4010004070	CERAMIC	DD12 SL 221K 500V
C14	4010004050	CERAMIC	DD12 SL 181K 500V
C15	4010004030	CERAMIC	DD10 SL 121K 500V
C16	4010004070 4010004050	CERAMIC CERAMIC	DD12 SL 221K 500V DD12 SL 181K 500V
C17 C18	4010004050	CERAMIC	DD12 SE 181K 500V DD09 SE 101K 500V
C19	4010004070	CERAMIC	DD12 SL 221K 500V
C20	4010004070	CERAMIC	DD12 SL 221K 500V
C21	4010004070	CERAMIC	DD12 SL 221K 500V
C22 C23	4010003950 4010004070	CERAMIC CERAMIC	DD06 SL 330K 500V DD12 SL 221K 500V
C23	4010004070	CERAMIC	DD12 SL 221K 500V DD12 SL 181K 500V
C25	4010004010	CERAMIC	DD09 SL 101K 500V
C28	4010004020	CERAMIC	DD09 SL 111K 500V
C29	4010004030 4010004020	CERAMIC	DD10 SL 121K 500V DD09 SL 111K 500V
C30 C31	4010004020	CERAMIC CERAMIC	DD12 SL 181K 500V
C32	4010004000	CERAMIC	DD09 SL 820K 500V
C33	4010003850	CERAMIC	DD06 SL 080D 500V
C34	4010004070	CERAMIC	DD12 SL 221K 500V
C35 C36	4010003950 4010004010	CERAMIC CERAMIC	DD06 SL 330K 500V DD09 SL 101K 500V
C37	4010004010	CERAMIC	DD09 SL 680K 500V
C38	4010003960	CERAMIC	DD06 SL 390K 500V
C39	4010004040	CERAMIC	DD10 SL 151K 500V
C40	4010003870	CERAMIC	DD06 SL 120K 500V
C41 C42	4010003990 4040000250	CERAMIC BARRIER	DD09 SL 680K 500V UAT 08X 473M
C42	4040000250	BARRIER	UAT 08X 473M
C44	4040000250	BARRIER	UAT 08X 473M
C45	4040000250	BARRIER	UAT 08X 473M
	· · · · · · · · · · · · · · · · · · ·		

#### [FILTER UNIT]

#### [PA UNIT]

REF.

NO.

Q10

D1

D2 D3

D4 D5

DA

L1

L2

L3 L4

L5

L6

L7 L8

L9

L10

L11 L12

L13

L14 L15

L16 L17

L18

L19

R1

R2

R3

R4

R5

R6

R7

**R8** 

R9 R10

R11

R12

R13

R14

ORDER NO.

1590000360

1790000710

1790000710

1790000710

1710000010

1710000030

1710000030

6140001170

6910000670

6910000670

6140001300

6140000610

6140001310

6140002030

6180001230

6180001570

6910000670

6910000670

6180000880

6910000670

6910000670

6910000670

6910000670

6180000900

6180000900

6110001670

7010000310

7010001050

7010000290

7010000330

7010004830

7010004090

7010004720 7310003750

7010000990

7010000990

7010004730

7010004730

7010004650

7080000650

DESCRIPTION

RN2202

MA29B

MA29B

MA29B

15CD11

1S1555

1S1555

LR-142

LR-155

LR-83

LR-156

BT01RN1-A61-001

BT01RN1-A61-001

LAL 04NA 8R2K

LAL 04NA 4R7K

BT01RN1-A61-001 BT01RN1-A61-001

LAL 03NA 100K

BT01RN1-A61-001

BT01RN1-A61-001

BT01RN1-A61-001 BT01RN1-A61-001

LAL 03NA 101K

LAL 03NA 101K LA-253

ELR25J 330 Ω

R25XJ 150 Ω

ELR25J 220 Ω

ELR25J 470 Ω

R50XJ 4.7 Ω

R20J 150 Ω

R25XJ 47 Ω

R25XJ 47 Ω

R50XJ 120 Ω

R50XJ 120 Ω

RSS1P 3R3 Ω

R50XJ 10 Ω

R50XJ 100 Ω

EVN-2ACA00 B52 (501)

LR-230 (SK-10M-15Y 120)

TRANSISTOR

VARISTOR

VARISTOR

VARISTOR

DIODE

DIODE

DIODE

COIL

RESISTOR

RESISTOR

RESISTOR RESISTOR

RESISTOR

RESISTOR

RESISTOR

TRIMMER

RESISTOR

RESISTOR

RESISTOR

RESISTOR

RESISTOR

RESISTOR

REF. NO.	ORDER NO.		DESCRIPTION
C46	4040000250	BARRIER	UAT 08X 473M
C46	4040000250	BARRIER	UAT 08X 473M
C48	4010000520	CERAMIC	DD108 B 472K 50V
C49	4010000520	CERAMIC	DD108 B 472K 50V
C50	4010000520	CERAMIC	DD108 B 472K 50V
C51	4010000520	CERAMIC	DD108 B 472K 50V
C52	4010000520	CERAMIC	DD108 B 472K 50V
C53	4010000520	CERAMIC	DD108 B 472K 50V
C54	4610001120	TRIMMER	CVSSC2001
C55	4010000410	CERAMIC	DD107 SL 331J 50V
C56	4010000410	CERAMIC	DD107 SL 331J 50V
C57	4010000430	CERAMIC	DD109 SL 471J 50V
C58	4010000430	CERAMIC	DD109 SL 471J 50V
C59	4040000250	BARRIER	UAT 08X 473M
C60	4010000330	CERAMIC	DD105 SL 101J 50V
C61	4010000120	CERAMIC	DD104 SL 100D 50V
C62	4010000330	CERAMIC	DD105 SL 101J 50V
C63	4010003960	CERAMIC	DD06 SL 390K 500V
C64	4010004030	CERAMIC	DD10 SL 121K 500V
C65	4010004050	CERAMIC	DD12 SL 181K 500V
C66	4010004090	CERAMIC	DD14 SL 301K 500V
C67	4010004090	CERAMIC	DD14 SL 301K 500V
C68	4010004100	CERAMIC	DD14 SL 331K 500V
C72	4010004070	CERAMIC	DD12 SL 221K 500V
C73	4010005290	CERAMIC	DD12 SL 621K 500V
C74	4010005290	CERAMIC	DD12 SL 621K 500V
C75	4010005290	CERAMIC	DD12 SL 621K 500V
C76	4010005290	CERAMIC	DD12 SL 621K 500V
<b>.</b>		DEL AV	M7 40U0
RL1	6330000180	RELAY	MZ-12HG
RL2	6330000180	RELAY	MZ-12HG
RL3	6330000180	RELAY	MZ-12HG
RL4	6330000180	RELAY	MZ-12HG
RL5	6330000180	RELAY	MZ-12HG MZ-12HG
RL6	6330000180	RELAY	MZ-12HG MZ-12HG
RL7	6330000180	RELAY	MZ-12HG
RL8	6330000180	RELAY	MZ-12HG
RL9	6330000180 6330000180	RELAY RELAY	MZ-12HG
RL10 RL11	6330000180	RELAY	MZ-12HG MZ-12HG
1	6330000180	RELAY	MZ-12HG
RL12 RL13	6330000720	RELAY	DS1-M-DC12V (AG2013)
nL13	0330000720	I NELAT	D31-W-DC12V (AG2013)
J2	6510007020	CONNECTOR	TMP-J01X-V6
W5	7120000010	JUMPER	JPW 02A
W6	7120000020	JUMPER	JPW 02H
W7	7120000010	JUMPER	JPW 02A
W10	6910001030	JUMPER	IPS-1041-4
W18	6910001020	JUMPER	IPS-1041-2
EP1	0910034882	РСВ	B 3373B (FILTER)

JZ		COMMECTOR		1 1 2 2			
				R15	7080000650	RESISTOR	RSS1P 3R3 Ω
				R16	7080000650	RESISTOR	RSS1P 3R3 Ω
V5	7120000010	JUMPER	JPW 02A	R17	7080000650	RESISTOR	RSS1P 3R3 Ω
W6	7120000020	JUMPER	JPW 02H	R18	7010005240	RESISTOR	R50XJ 820 Ω
W7	7120000010	JUMPER	JPW 02A	R19	7310003240	TRIMMER	EVN-2ACA00 B23 (202)
W10	6910001030	JUMPER	IPS-1041-4	R20	7010004650	RESISTOR	R50XJ 10 Ω
W18	6910001020	JUMPER	IPS-1041-2	R21	7010004650	RESISTOR	R50XJ 10 Ω
				R22	7080000650	RESISTOR	RSS1P 3R3 Ω
	1			R23	7080000650	RESISTOR	RSS1P 3R3 Ω
EP1	0910034882	PCB	B 3373B (FILTER)	R24	7070000520	RESISTOR	CRH300 R-02J 2.7 Ω (2R7)
			, ,	R25	7010000370	RESISTOR	ELR25J 1 kΩ
		•		R26	7100000510	RESISTOR	CP-5AJ 0.012 Ω
	1			R27	7010000370	RESISTOR	ELR25J 1 kΩ
	i						_
		<u></u>		J <sub>R28</sub>	7010001090	RESISTOR	R25XJ 330 Ω
				R28 R29	7010001090 7010004150	RESISTOR RESISTOR	R25XJ 330 Ω R20J 470 Ω
	)			-		1	
PA U	NIT]			R29	7010004150	RESISTOR	R20J 470 Ω
		<u> </u>		R29 R30	7010004150 7010004190	RESISTOR RESISTOR	R20J 470 Ω R20J 1 kΩ
REF.	ORDER		DESCRIPTION	R29 R30 R31	7010004150 7010004190 7010003490	RESISTOR RESISTOR RESISTOR	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ
		ı	DESCRIPTION	R29 R30 R31 R32	7010004150 7010004190 7010003490 7510000070	RESISTOR RESISTOR RESISTOR THERMISTOR	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S
REF. NO.	ORDER	TRANSISTOR	DESCRIPTION 2SC1971	R29 R30 R31 R32 R33	7010004150 7010004190 7010003490 7510000070 7010003610	RESISTOR RESISTOR RESISTOR THERMISTOR RESISTOR	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S ELR20J 39 kΩ
REF. NO.	ORDER NO.			R29 R30 R31 R32 R33 R34	7010004150 7010004190 7010003490 7510000070 7010003610 7010004020	RESISTOR RESISTOR RESISTOR THERMISTOR RESISTOR RESISTOR	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S ELR20J 39 kΩ R20J 39 Ω
REF. NO. Q1 Q2	ORDER NO. 1530000790	TRANSISTOR	2SC1971	R29 R30 R31 R32 R33 R34	7010004150 7010004190 7010003490 7510000070 7010003610 7010004020	RESISTOR RESISTOR RESISTOR THERMISTOR RESISTOR RESISTOR	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S ELR20J 39 kΩ R20J 39 Ω
REF. NO. Q1 Q2 Q3	ORDER NO. 1530000790 1530000190	TRANSISTOR TRANSISTOR	2SC1971 2SC3133	R29 R30 R31 R32 R33 R34	7010004150 7010004190 7010003490 7510000070 7010003610 7010004020	RESISTOR RESISTOR RESISTOR THERMISTOR RESISTOR RESISTOR	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S ELR20J 39 kΩ R20J 39 Ω
REF. NO. 21 22 23 24	ORDER NO. 1530000790 1530000190 1530000190	TRANSISTOR TRANSISTOR TRANSISTOR	2SC1971 2SC3133 2SC3133	R29 R30 R31 R32 R33 R34 R35	7010004150 7010004190 7010003490 7510000070 7010003610 7010004020 7010001070	RESISTOR RESISTOR RESISTOR THERMISTOR RESISTOR RESISTOR RESISTOR	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S ELR20J 39 kΩ R20J 39 Ω R25XJ 220 Ω
REF. NO. Q1 Q2 Q3 Q4 Q5	ORDER NO. 1530000790 1530000190 1530000190 1540000200	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC1971 2SC3133 2SC3133 2SD1406 Y	R29 R30 R31 R32 R33 R34 R35	7010004150 7010004190 7010003490 7510000070 7010003610 7010004020 7010001070	RESISTOR RESISTOR RESISTOR THERMISTOR RESISTOR RESISTOR CERAMIC	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S ELR20J 39 kΩ R20J 39 Ω R25XJ 220 Ω
REF. NO. Q1 Q2 Q3 Q4 Q5 Q6	ORDER NO. 1530000790 1530000190 1530000190 1540000200 1530000200	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC1971 2SC3133 2SC3133 2SD1406 Y 2SC2904	R29 R30 R31 R32 R33 R34 R35	7010004150 7010004190 7010003490 7510000070 7010003610 7010004020 7010001070 4010000520 4010000510	RESISTOR RESISTOR RESISTOR THERMISTOR RESISTOR RESISTOR RESISTOR CERAMIC CERAMIC	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S ELR20J 39 kΩ R20J 39 Ω R25XJ 220 Ω  DD108 B 472K 50V DD106 B 222K 50V
	ORDER NO. 1530000790 1530000190 1530000190 1540000200 1530000200 1530000200	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC1971 2SC3133 2SC3133 2SD1406 Y 2SC2904 2SC2904	R29 R30 R31 R32 R33 R34 R35	7010004150 7010004190 7010003490 7510000070 7010003610 7010004020 7010001070 4010000520 4010000510 4040000250	RESISTOR RESISTOR THERMISTOR RESISTOR RESISTOR RESISTOR CERAMIC CERAMIC BARRIER	R20J 470 Ω R20J 1 kΩ ELR20J 5.6 kΩ ERT-D2FHL 503S ELR20J 39 kΩ R20J 39 Ω R25XJ 220 Ω  DD108 B 472K 50V DD106 B 222K 50V UAT 08X 473M

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REF. NO.	ORDER NO.	DESCRIPTION		
Q1	1530000790	TRANSISTOR	2SC1971	
Q2	1530000190	TRANSISTOR	2SC3133	
Q3	1530000190	TRANSISTOR	2SC3133	
Q4	1540000200	TRANSISTOR	2SD1406 Y	
Q5	1530000200	TRANSISTOR	2SC2904	
Q6	1530000200	TRANSISTOR	2SC2904	
Q7	1520000060	TRANSISTOR	2SB562C	
Q8	1590000340	TRANSISTOR	RN1202	
Q9	1590000340	TRANSISTOR	RN1202	

### [PA UNIT]

REF. NO.	ORDER NO.	D	ESCRIPTION
C7	4310000610	MYLAR	50 F2D 472J
C8	4310000610	MYLAR	50 F2D 472J
C9	4010000380	CERAMIC	DD107 SL 221J 50V
C10	4040000250	BARRIER CERAMIC	UAT 08X 473M DD104 B 102K 50V
C11 C12	4010000500 4030001370	S. CERAMIC	GR44 CH 682K
C13	4030001370	S. CERAMIC	GR44 CH 682K
C14	4040000250	BARRIER	UAT 08X 473M
C15	4040000250	BARRIER	UAT 08X 473M
C16	4510003880	ELECTROLYTIC	
C17	4030001340 4010000420	S. CERAMIC CERAMIC	GR44 CH 102K DD108 SL 391J 50V
C18 C19	4010000420	CERAMIC	DD108 SL 3913 30V DD12 SL 221K 500V
C20	4320000220	DIP MICA	DM19C 681J5
C21	4030001340	S. CERAMIC	GR44 CH 102K
C22	4010004070	CERAMIC	DD12 SL 221K 500V
C23	4510003910	ELECTROLYTIC	16 MV 47 HW DD108 B 472K 50V
C24 C25	4010000520 4510004600	CERAMIC ELECTROLYTIC	
C25	4040000260	BARRIER	UZE 08X 104M
C27	4010000380	CERAMIC	DD107 SL 221J 50V
C28	4040000250	BARRIER	UAT 08X 473M
C29	4510004600	ELECTROLYTIC	
C30	4040000250	BARRIER BARRIER	UAT 08X 473M UZE 08X 104M
C31 C32	4040000260 4010000380	CERAMIC	DD107 SL 221J 50V
C33	4010000520	CERAMIC	DD107 SL 2216 SOV
C34	4510003890	ELECTROLYTIC	
C35	4010000520	CERAMIC	DD108 B 472K 50V
C36	4510005000	ELECTROLYTIC	
C37	4040000250	BARRIER	UAT 08X 473M DD108 B 472K 50V
C38 C39	4010000520 4010000520	CERAMIC CERAMIC	DD108 B 472K 50V
C40	4030001340	S. CERAMIC	GR44 CH 102K
C41	4510003910	ELECTROLYTIC	16 MV 47 HW
C42	4010000520	CERAMIC	DD108 B 472K 50V
C43	4010000520	CERAMIC	DD108 B 472K 50V
C44	4010000520	CERAMIC CERAMIC	DD108 B 472K 50V DD06 SL 220K 500V
C45	4010003910	CENAMIC	DD00 3L 220N 300V
S1	6910000060	THERMAL	OHD-3 90M
F1	5210000130	FUSE	FGB 4A
F2	5220000020	HOLDER	S-N5051
F3	5220000020	HOLDER	S-N5051
j1	6510003780	CONNECTOR	LLR-06 [DC 13.8V]
J2	6510003390	CONNECTOR	B03B-EH-S
J4	6510006790	CONNECTOR	TSL-P03P-V2
J5	6510006790	CONNECTOR	TSL-P03P-V2
J6	6510006790	CONNECTOR	TSL-P03P-V2
J7 J9	6510006790 6510003080	CONNECTOR	TSL-P03P-V2 RT01T-1.0B
J10	6510003080	CONNECTOR	RT01T-1.0B
J11	6510003390	CONNECTOR	B03B-EH-S
W4	6910001030	JUMPER	IPS-1041-4
W5	6910001030	JUMPER	IPS-1041-4
W6	7120000020	JUMPER	JPW 02H
W7	6910001020	JUMPER	IPS-1041-2
W9	6910001020	JUMPER	IPS-1041-2
W10	6910001030	JUMPER	IPS-1041-4
EP13	0910035731	РСВ	B 3370A (PA)

### SECTION 7 ADJUSTMENT PROCEDURES

#### 7-1 PREPARATION BEFORE SERVICING

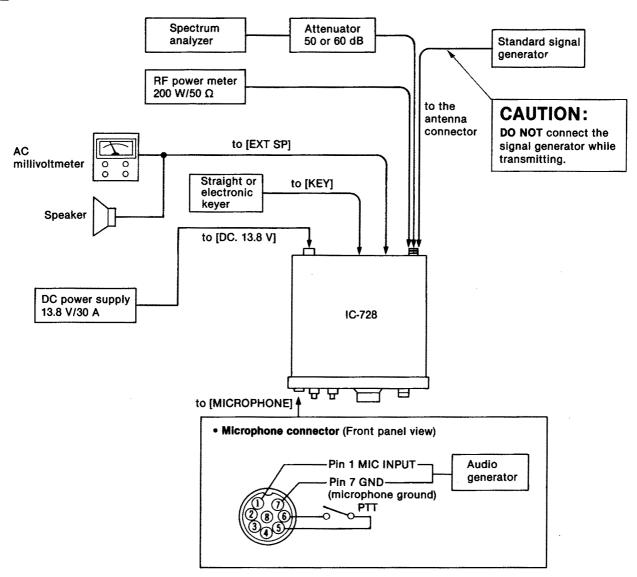
#### REQUIRED TEST EQUIPMENT

EQUIPMENT	GRADE A	ND RANGE	EQUIPMENT	GRADE AND RANGE
DC power supply	Output voltage : 13.8 V DC		DC voltmeter	Input impedance : 50 kΩ/DC or better
	Current capacity	: 30 A or more	AC millivoltmeter	Measuring range : 10 mV∼10 V
RF power meter (terminated type)	Measuring range Frequency range	: 10~200 W : 1.8~50 MHz	External speaker	Impedance : 8 Ω
(terminated type)	Impedance	: 50 Ω	Ammeter	Measurement capability: 1 A and 30 A
	SWR :	: Less than 1.2:1	Audio generator	Frequency range : 300~3000 Hz
Frequency counter	r Frequency range	: 0.1~100 MHz		Output level : 1~500 mV
	Frequency accuracy Sensitivity	: ±1 ppm or better : 100 mV or better	Attenuator	Power attenuation : 50 or 60 dB Capacity : 150 W or more
RF voltmeter		: 0.1~100 MHz : 0.01~10 V	Spectrum analyzer	Frequency range : At least 90 MHz Spectrum bandwidth : ±100 kHz or more
Standard signal generator (SSG)	1 1,	: 0.1~100 MHz : -127~-17 dBm (0.1 µV~32 mV)	Digital multimeter or oscilloscope	Input impedance : 1 MΩ/DC or better

CW: Clockwise

CCW: Counterclockwise

#### **CONNECTION**



### 7-2 PLL ADJUSTMENT

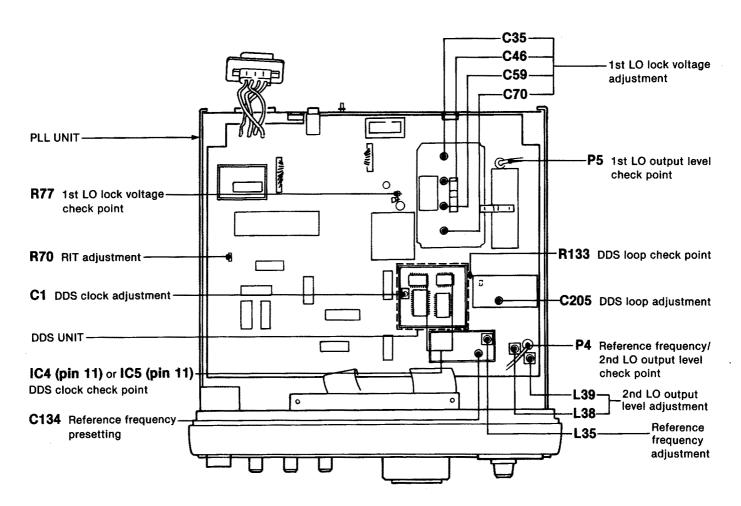
ADJUSTMENT		AD WOTHER CONDITIONS	N	IEASUREMENT	VALUE	ADJUSTMENT POINT	
ADJUSTME	NT	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
DDS CLOCK	1	Displayed frequency: 14.10000 MHz     Mode : USB     Receiving	DDS	Connect the frequency counter to IC4 (pin 11) or IC5 (pin 11).	5.24288 MHz	DDS	C1
REFERENCE FREQUENCY	1	Displayed frequency: 14.10000 MHz  Mode: USB Terminate P4 with a 50 Ω resistor.  Receiving	PLL	Connect the frequency counter to P4.	Preset to center as shown below.	PLL	C134
	2				61.4400 MHz		L35
	3	After adjustment, remove the resistor f	rom P4 a	nd re-plug P4.			
DDS LOOP	1	Displayed frequency: 14.12650 MHz     Mode : USB     Receiving	PLL	Connect the digital multimeter or oscilloscope to R133.	1.0 V DC	PLL	C205
	2	Displayed frequency: 14.12649 MHz			1.8~2.4 V DC		Verify
1st LO LOCK VOLTAGE	1	Displayed frequency: 7.99999 MHz     Mode : USB     Receiving	PLL	Connect the digital multimeter or oscilloscope to R77.	7.0 V DC	PLL.	C35
	2	Displayed frequency: 14.99999 MHz			7.0 V DC		C46
	3	Displayed frequency: 21.99999 MHz			7.0 V DC		C59
	4	Displayed frequency: 30.00000 MHz			7.0 V DC		C70
	5	Displayed frequencies:     0.50000 MHz, 8.00000 MHz,     15.00000 MHz and 22.00000 MHz			More than 1.65 V DC		Verify
1st LO OUTPUT LEVEL	1	Displayed frequency: 14.10000 MHz  Mode: USB Terminate P5 with a 50 Ω resistor. Receiving	PLL	Connect the RF voltmeter to P5.	More than −3 dBm	PLL	Verify
	2	After confirmation, remove the resistor	from P5	and re-plug P5.			
2nd LO OUTPUT LEVEL	1	Displayed frequency: 14.10000 MHz  Mode: USB Terminate P4 with a 50 Ω resistor. Receiving	PLL	Connect the RF voltmeter to P4.	More than 0 dBm	PLL	L38, L39
	2	After confirmation, remove the resistor	from P4	and re-plug P4.			

#### **PLL ADJUSTMENT (CONTINUED)**

ADJUSTMENT		ADJUSTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
			UNIT	LOCATION	VALUE	UNIT	ADJUST
RIT	1	Displayed frequency: 14.10000 MHz  Mode: USB Connect the SSG to the antenna connector and set as: Level: 50 μV* (-73 dBm) Modulation: OFF  [RIT] control: Center [RIT] switch: ON and OFF Receiving	Top Cover	Speaker	Same tone pitch on both conditions.	PLL	R70

<sup>\*</sup>This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

#### • PLL AND DDS UNITS

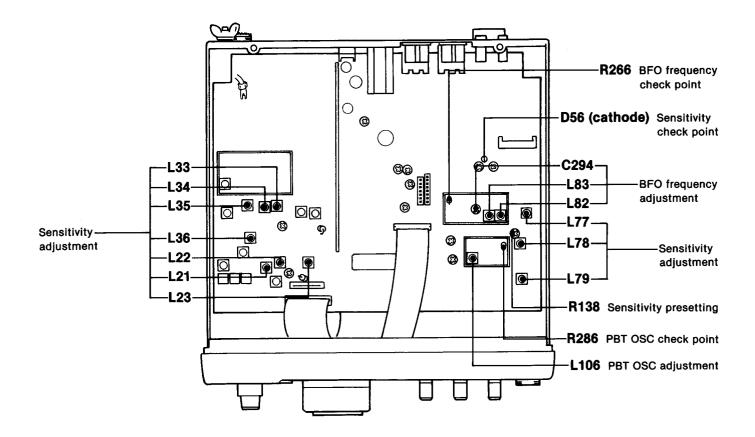


### 7-3 RECEIVER ADJUSTMENT

ADJUSTMENT		AD WOTHERT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTME	NT	ADJUSTMENT CONDITIONS	UNIT LOCATION		VALUE	UNIT	ADJUST
BFO FREQUENCY	1	Displayed frequency: 14.10000 MHz     Mode : USB     Receiving	MAIN	Connect the frequency counter to R266.	9.01300 MHz	MAIN	C294
	2	Mode : CW     Trasmitting			9.01060 MHz		L83
	3	Mode : LSB     Receiving			9.01000 MHz		L82
	4	Mode : CW     Receiving			9.00980 MHz (±150 Hz)		Verify
	5	Mode : AM     Receiving			Not output		
PBT OSC	1	Displayed frequency: 14.10000 MHz     Mode : USB     [PBT] control : Center     Receiving	MAIN	Connect the frequency counter to R286.	9.46650 MHz	MAIN	L106
	2	Mode : CW     Receiving	en promonente de de destado de la composiçõe de la compos		9.46560 MHz (±500 Hz)		Verify
	3	Mode : AM     Receiving			9.46500 MHz (±500 Hz)		
	4	Mode : CW     [PBT] control : Max. CW	Andreas de la companya de la company		Higher than 9.46710 MHz		
	5	Mode : CW     [PBT] control : Max. CCW	vege rektstabiliske frimmere en		Lower than 9.46410 MHz		- Andreas - Andr
SENSITIVITY	4	Displayed frequency: 14.10000 MHz     Mode : USB     [RIT] switch : OFF     [AGC] switch : FAST     [ATT] switch : OFF     [NB] switch : OFF	MAIN	Connect the digital multimeter or oscilloscope to the cathode of D56.	Maximum voltage	MAIN	Adjust in sequence L33, L34, L35, L36, L22, L23
	2	• [PREAMP] switch : ON • [SQL] control : Max. CCW • Connect the SSG to the antenna connector and set as: Frequency: 14.0985 MHz Level : 50 μV* (-73 dBm) Modulation: 1 kHz Deviation : ±15 kHz • R138 (MAIN) : Max. CCW • Receiving	Rear panel	Connect the distortion meter to the [EXT SP] jack with an 8 Ω load.	Minimum distortion level	MAIN	L21
	3	Mode: AM Connect the SSG to the antenna connector and set as: Deviation: ±6 kHz R138 (MAIN): Max. CW Receiving	MAIN	Connect the digital multimeter or oscilloscope to the cathode of D56.	Maximum voltage	MAIN	Adjust in sequence L79, L78, L77

<sup>\*</sup>This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

#### • MAIN UNIT

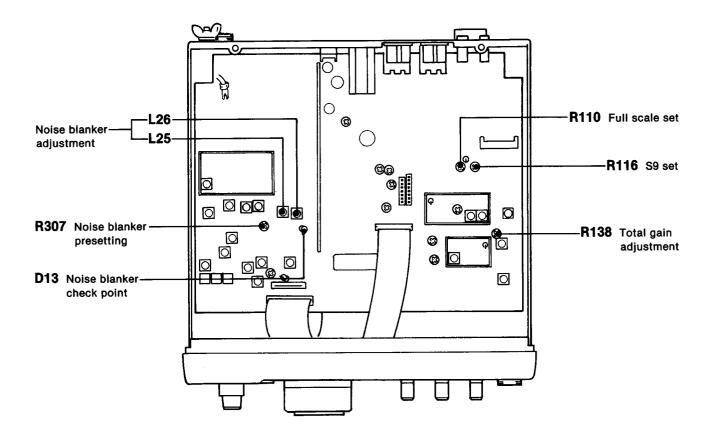


### RECEIVER ADJUSTMENT (CONTINUED)

ADJUSTMENT		AD HICTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTME	NI	ADJUSTMENT CONDITIONS	UNIT LOCATION		VALUE	UNIT	ADJUST
TOTAL GAIN	1	Displayed frequency: 14.10000 MHz  Mode: USB  [PREAMP] switch: OFF  Connect the SSG to the antenna connector and set as: Level: 0.5 mV* (-53 dBm) Modulation: OFF  Receiving	Rear panel	Connect the AC millivoltmeter to the [EXT SP] jack with an 8 Ω load.	1.0 V (0 dB)	Front panel	[AF] control
	2	Set the SSG as:     Level : OFF			30 mV (-30 dB)	MAIN	R138
S-METER	1	Displayed frequency: 14.10000 MHz  Mode: USB [PREAMP] switch: OFF  Connect the SSG to the antenna connector and set as: Level: 25 μV* (-79 dBm) Modulation: OFF  Receiving	Front panel	S-METER	S9	MAIN	R116
	2	Set the SSG as:     Level : 25 mV* (-19 dBm)			S9+60 dB		R110
	3	Repeat step 1 and 2 several times.					
NOISE BLANKER	1	Displayed frequency: 14.10000 MHz  Mode: USB  [NB] switch: ON  [PREAMP] switch: ON  R307 (MAIN): Max. CW  Receiving  Connect the SSG to the antenna connector and set as: Level: 3.2 µV* (-97 dBm) Modulation: OFF  Apply the following signal into the SSG's output.	MAIN	Connect the oscilloscope to the cathode of D13.	Adjust for maximum waveform on the oscilloscope.	MAIN	L25, L26
	2	Connect the SSG to the antenna connector and set as:  Level : 10 μV* (-87 dBm)  Modulation: OFF  Add the same signal above.			The noise must be blanked.		Verify

<sup>\*</sup>This output level of the standard signal generator (SSG) is indicated as SSG's open circuit.

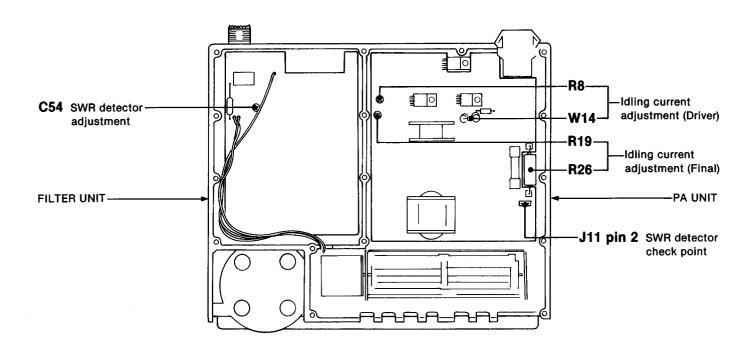
#### • MAIN UNIT



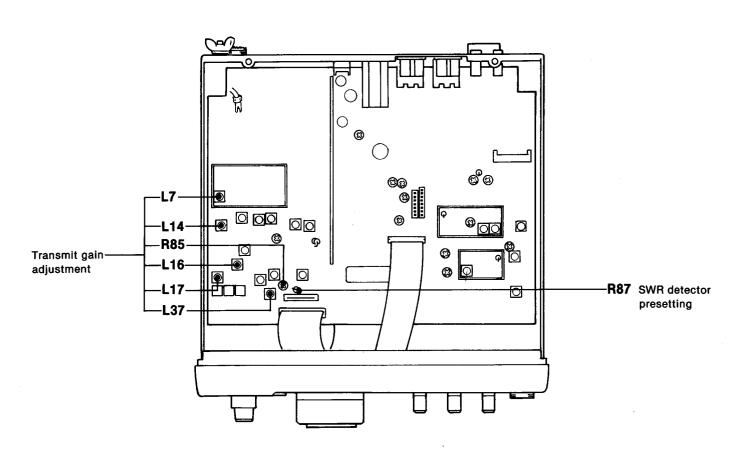
### 7-4 TRANSMITTER ADJUSTMENT

AD MOTAFAIT			MEASUREMENT		VALUE	ADJUSTMENT POINT	
ADJUSTME	NT	ADJUSTMENT CONDITIONS	UNIT	LOCATION	VALUE	UNIT	ADJUST
IDLING CURRENT  (A) For drive transistors	1	Displayed frequency: 14.10000 MHz     Mode : CW     [TRANSMIT] switch: IN     [KEY] jack : No connection	PA	Unsolder W14 and connect the ammeter to the unsoldering points.	100 mA	PA	R8
				w14 C11 side			
® For final transistors	2		PA	Unsolder R26 and connect the ammeter to the unsoldering points.	300 mA	PA	R19
				ammeter 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
		After adjustment, re-solder W14 and R	26.		<u> </u>	_	
SWR DETECTOR	1	Displayed frequency: 14.10000 MHz     Mode : USB     [RF PWR] control : Max. CW     Connect the jumper wire between	Rear panel	Connect the RF power meter to the antenna connector.	100 W	Front panel	[MIC GÀIN] control
	2	R87 (front side) and a ground.  Connect the audio generator to the [MICROPHONE] connector and set as:  Level: 10 mV  Frequency: 1.5 kHz  Transmitting	PA	Connect the DC voltmeter to J11 (pin 2).	Minimum	FILTER	C54
	3	After adjustment, remove the jumper v	wire from	R87.			
TRANSMIT GAIN	1	Displayed frequency: 14.10000 MHz     Mode : USB     R85 (MAIN) : Max. CW      TSE RW(R) control	Rear panel	Connect the RF power meter to the antenna connector	50 W	Front panel	[MIC GAIN] control
		[RF PWR] control : Max. CW     Connect the audio generator to the [MICROPHONE] connector and set as:     Level : 3 mV     Frequency : 1.5 kHz     Transmitting			Maximum level	MAIN	L37, L17, L16, L14, L7
	2	• [MIC GAIN] control: Center			50 W		R85
		NOTE: Adjust the [MIC GAIN] control t	to keep th	e output power at 50 W	for each adjustment.		

#### • PA AND FILTER UNITS



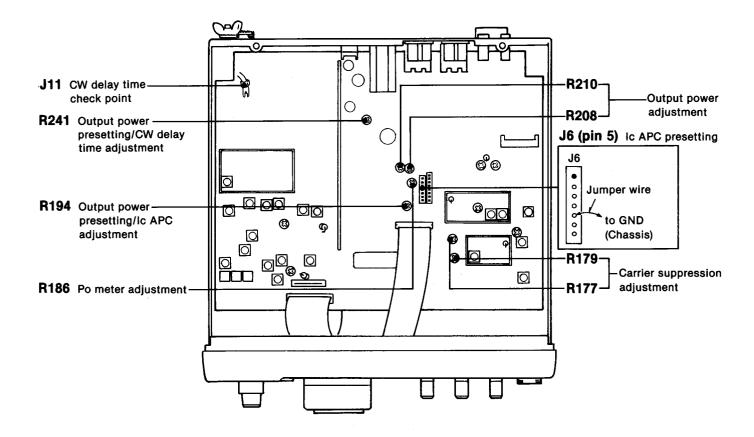
#### • MAIN UNIT



### TRANSMITTER ADJUSTMENT (CONTINUED)

ADJUSTMENT		AD HISTMENT CONDITIONS	MEASUREMENT		VALUE	ADJUSTMENT POINT	
		ADJUSTMENT CONDITIONS	UNIT LOCATION		VALUE	UNIT	ADJUST
OUTPUT POWER	1		panel po	Connect the RF power meter to the antenna connector.	100 W	MAIN	R210
	2	the lower output power.)  Mode: CW  (RF PWR) control: Max. CW  R194, R241 (MAIN): Max. CCW  Connect a key to the [KEY] jack and keep the key down.					
	3	• [RF PWR] control : Max. CCW			10 W		R208
Ic APC	1	Displayed frequency: 14.10000 MHz  Mode: CW  [RF PWR] control: Max. CW  Ground pin 5 of J6.  Connect a key to the [KEY] jack and key down.	Rear panel	Connect the ammeter between the DC power supply and IC-728.	22 A	MAIN	R194
	2	After adjustment, remove the jumper v	vire from	J6, pin 5.			
Po METER	1	Displayed frequency: 14.10000 MHz  Mode: CW  [RF PWR] control: Max. CW  Connect a key to the [KEY] jack and key down.	Front panel	S-METER	100 %	MAIN	R186
CW DELAY TIME	1	Displayed frequency: 14.10000 MHz  Mode: CW  [BK IN] switch: OFF  [DELAY] control: Max. CCW  Connect an external electronic keyer to the [KEY] jack and close the key.	MAIN	Connect the oscilloscope to J11 and the electronic keyer.	Adjust as follows:  Keying  J11  10 msec.	MAIN	R241
CARRIER SUPPRESSION	1	Displayed frequency: 14.10000 MHz  Mode: USB and LSB  [MIC GAIN] control: Max. CCW  Apply no signal to the [MICROPHONE] connector.  Transmitting	Rear panel	Connect the specturm analyzer to the antenna connector via the attenuator.	Minimum carrier level (Less than -40 dB)	MAIN	R177, R179 (Alternately adjust)

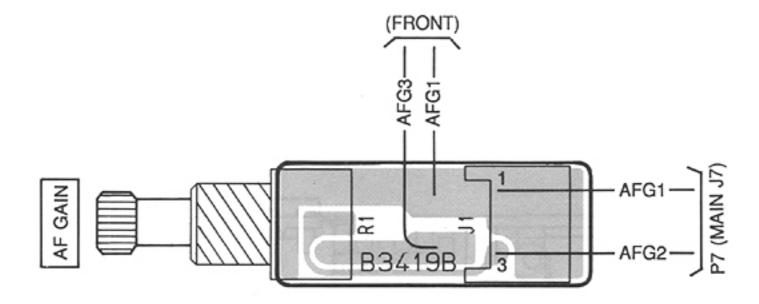
#### • MAIN UNIT



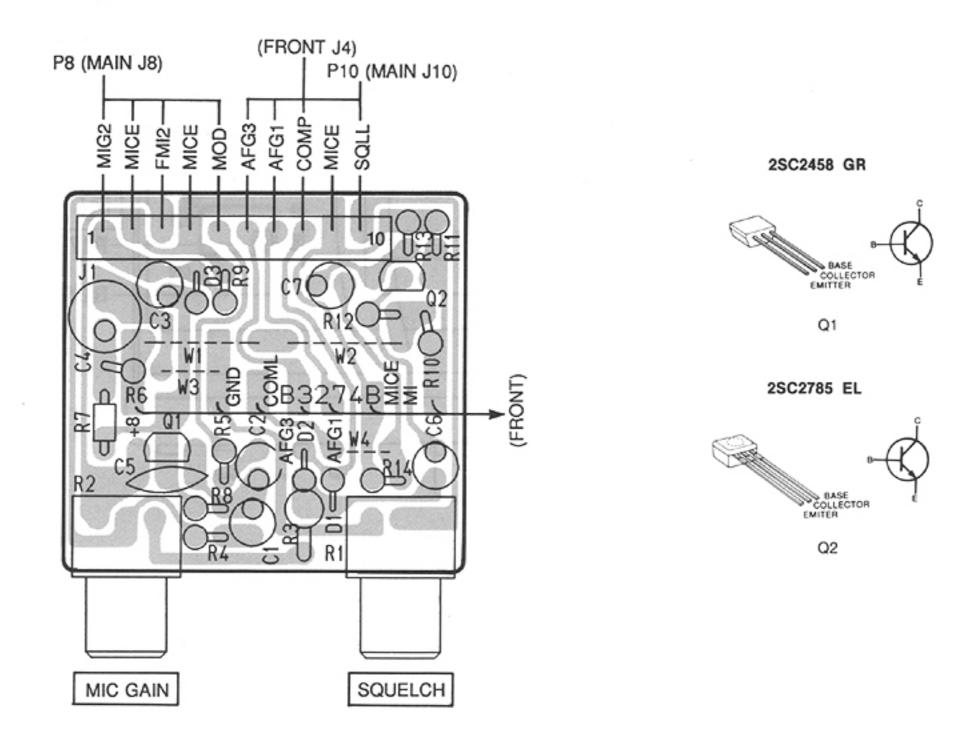
# SECTION 8 BOARD LAYOUTS

# 8-1 AF, VR AND JACK UNITS

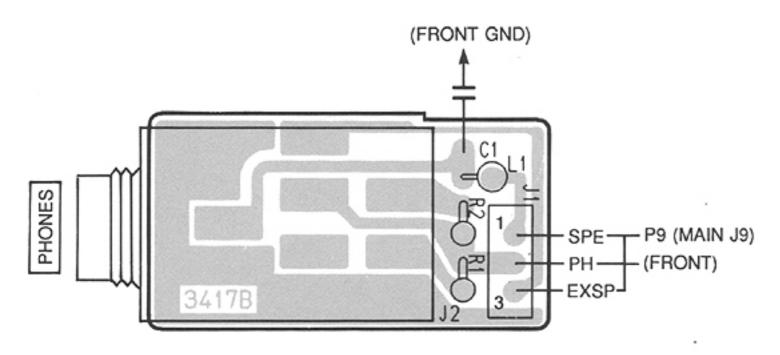
### • AF UNIT



### VR UNIT

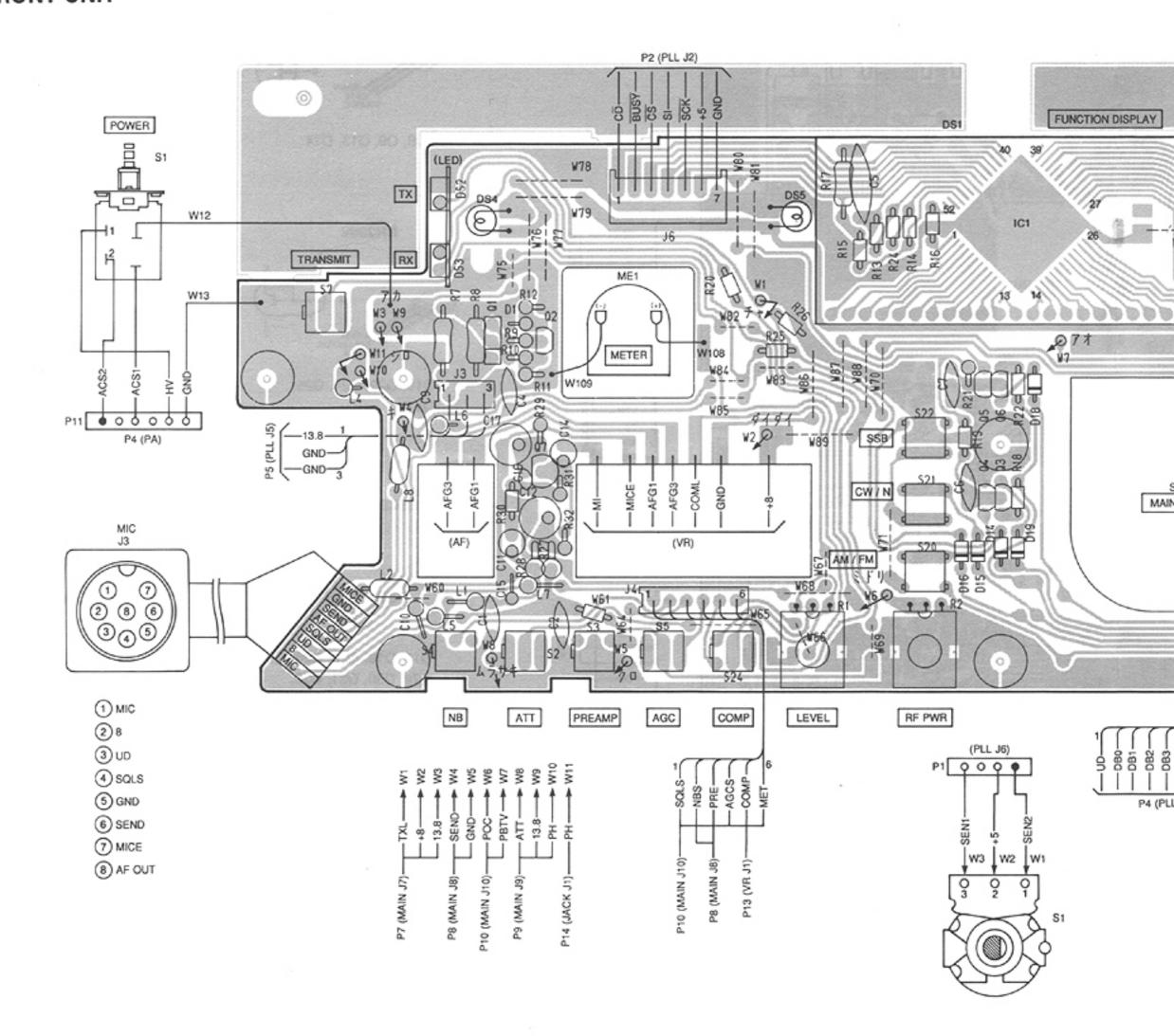


### JACK UNIT

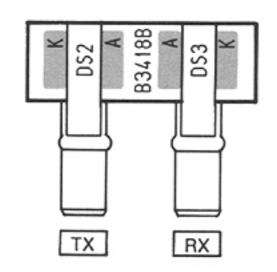


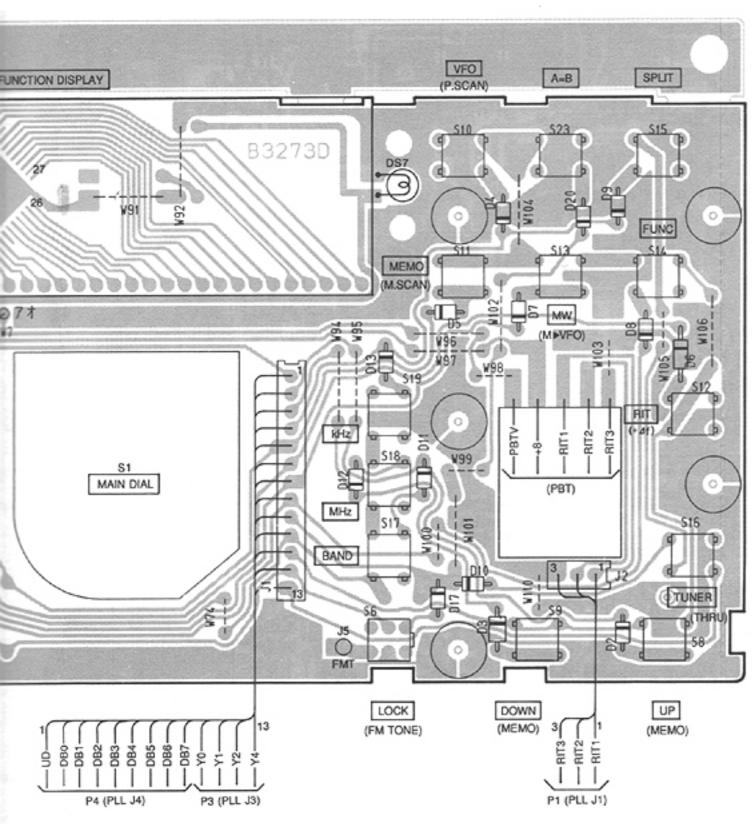
# 8-2 FRONT, LED AND PBT UNITS

### FRONT UNIT



### • LED UNIT





### Q2, Q3, Q4, Q6

RN1204

2SB909M Q

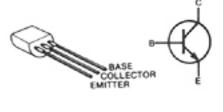
BASE COLLECTOR EMITTER

Q1

2SC2458 GR

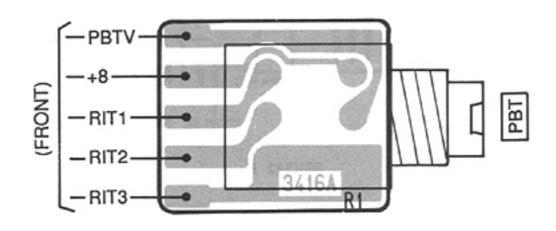
Q5

### 2SC1571G

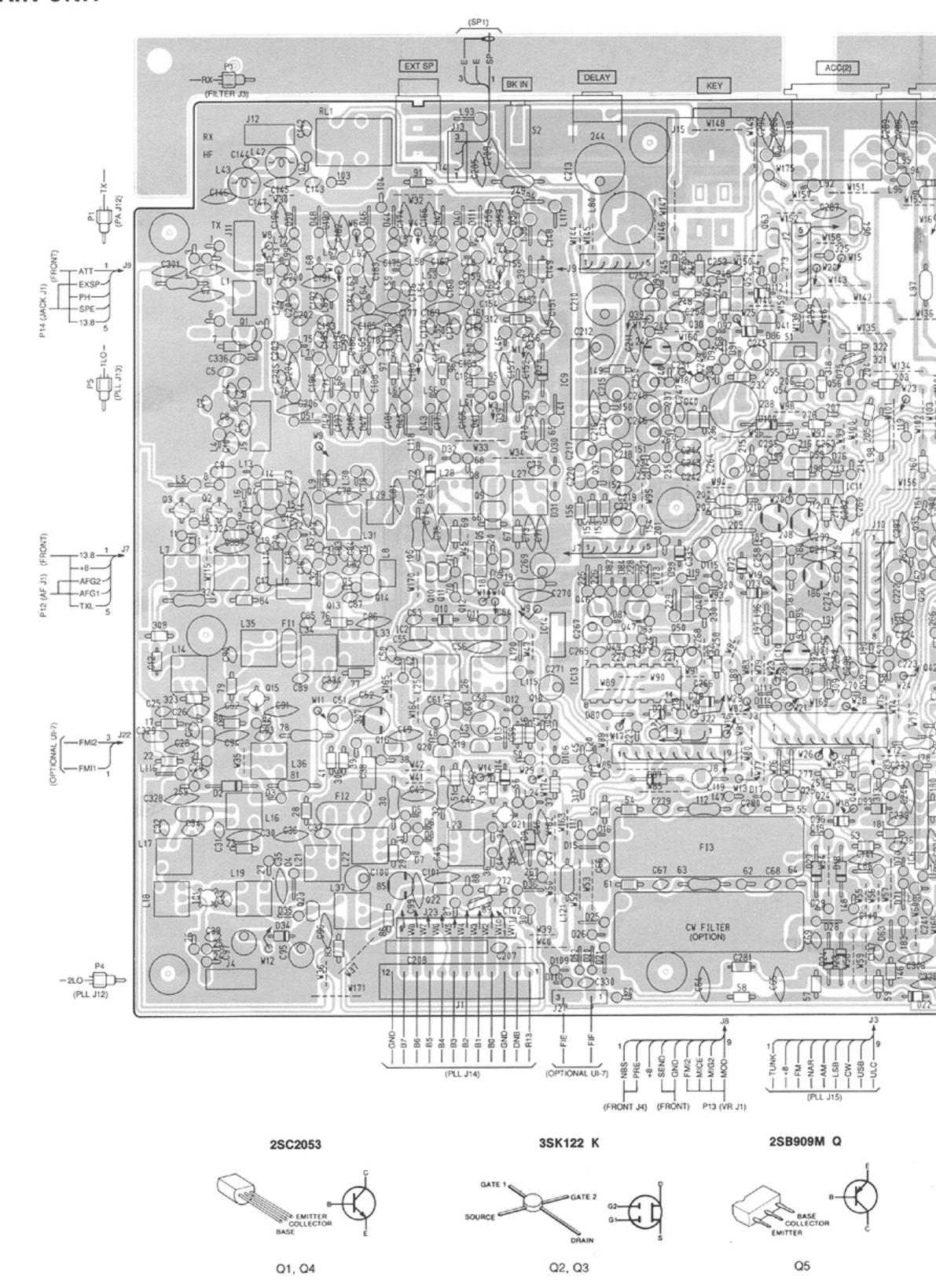


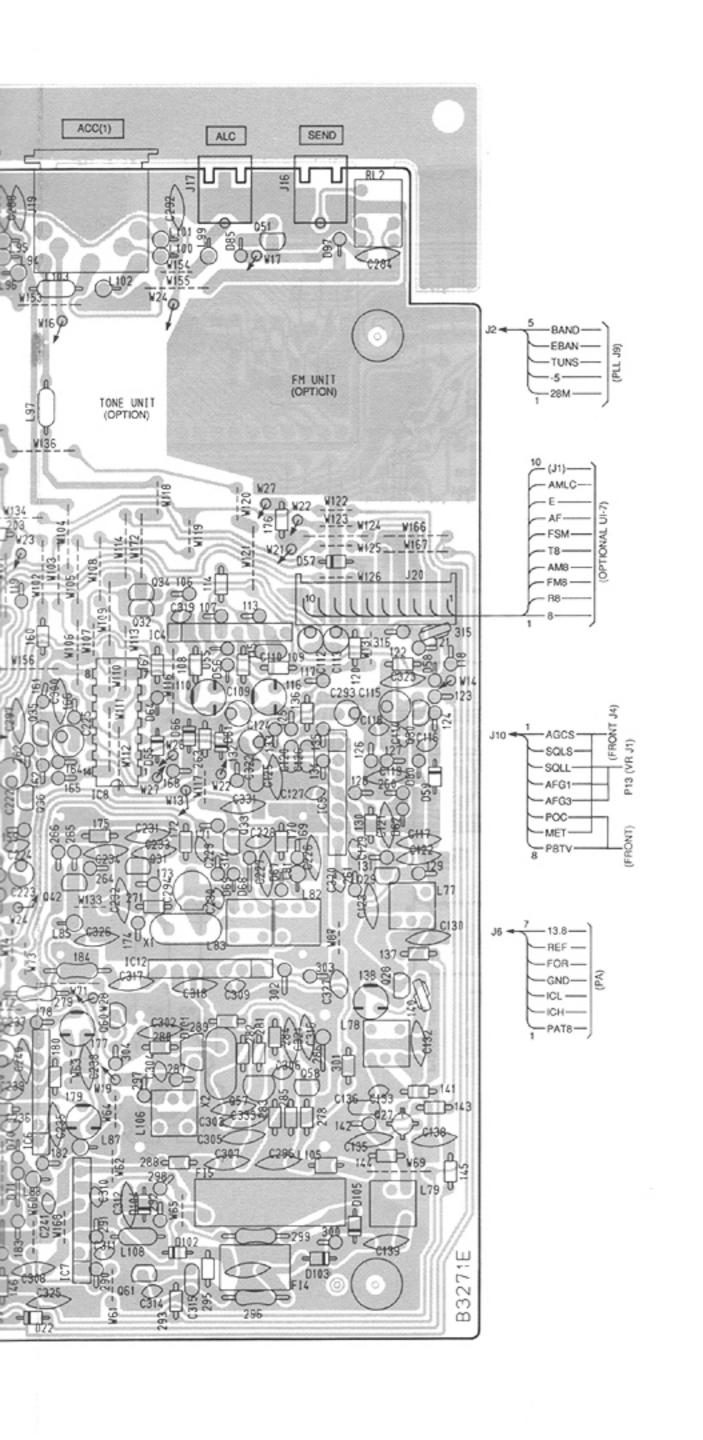
Q7

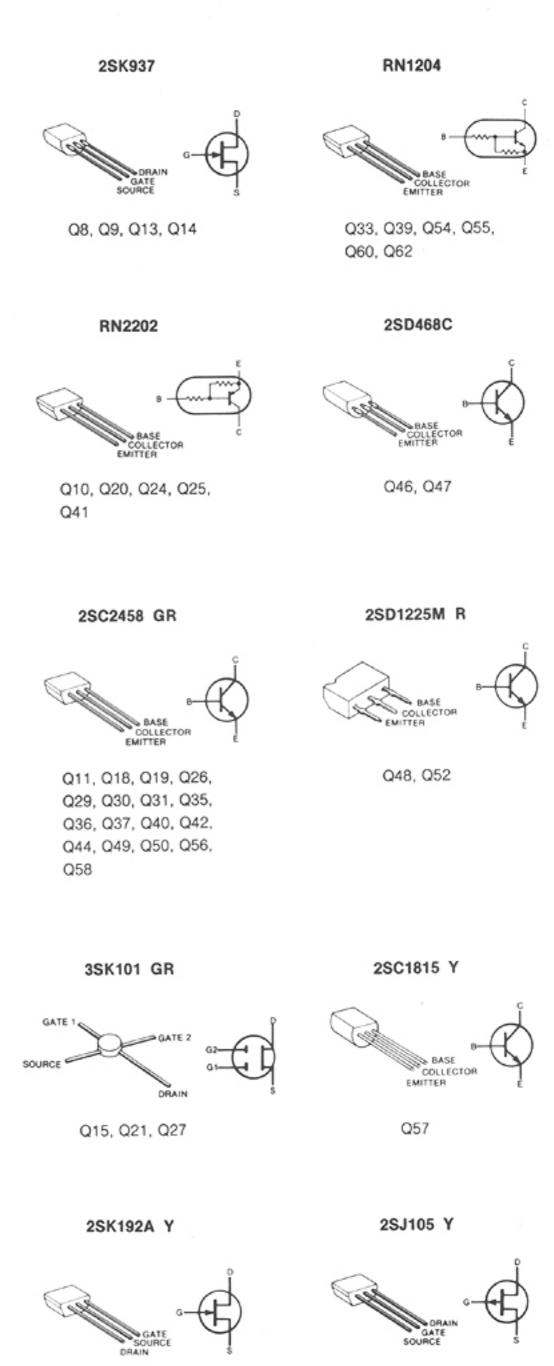
# • PBT UNIT

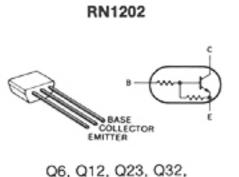


# 8-3 MAIN UNIT

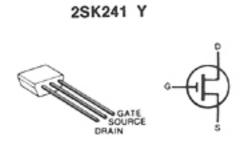




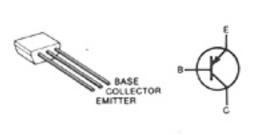




Q6, Q12, Q23, Q32, Q34, Q51, Q61, Q63, Q64



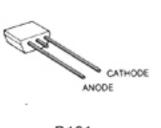
Q7, Q22, Q28



Q16

2SA1048 GR

Q17, Q38, Q53

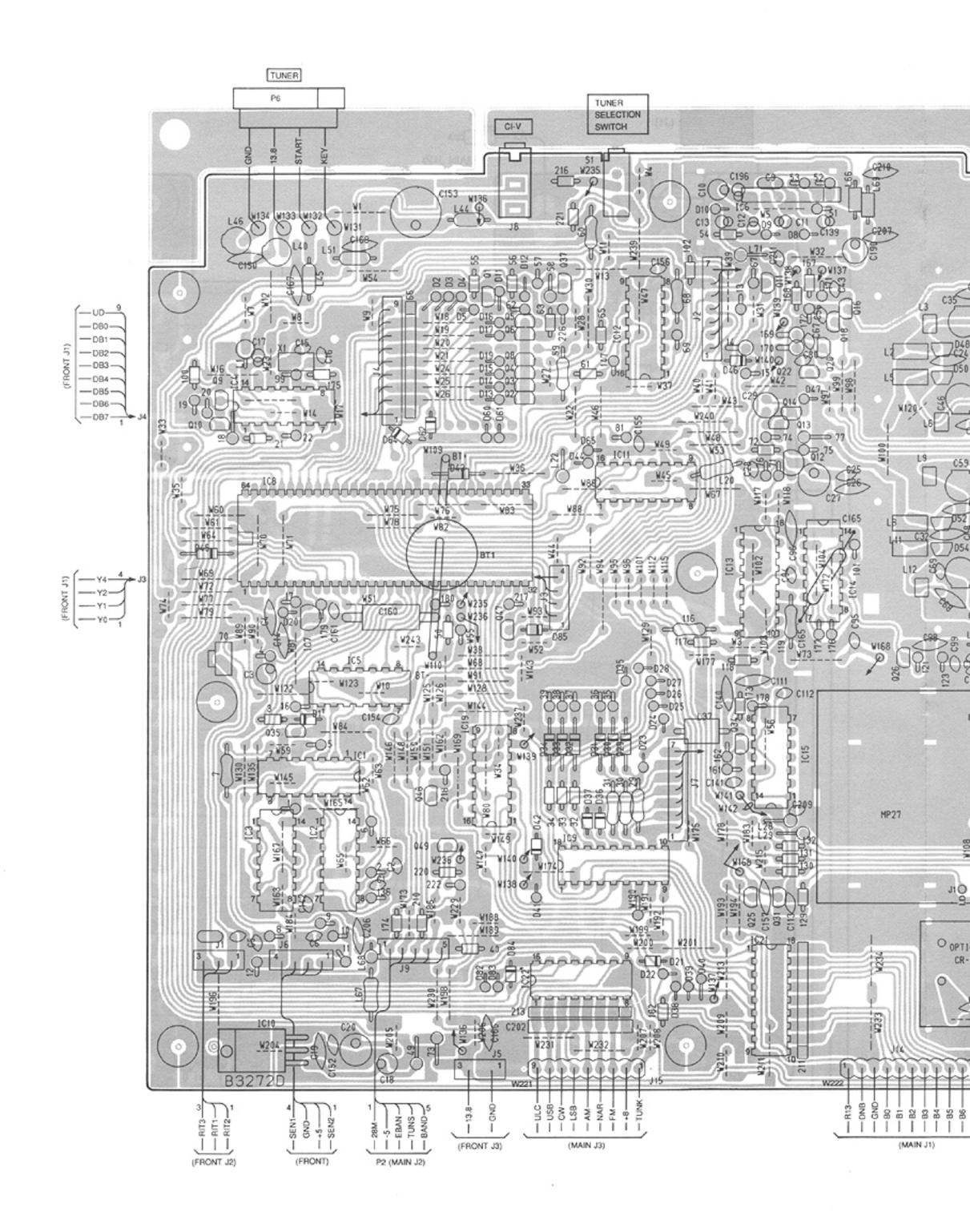


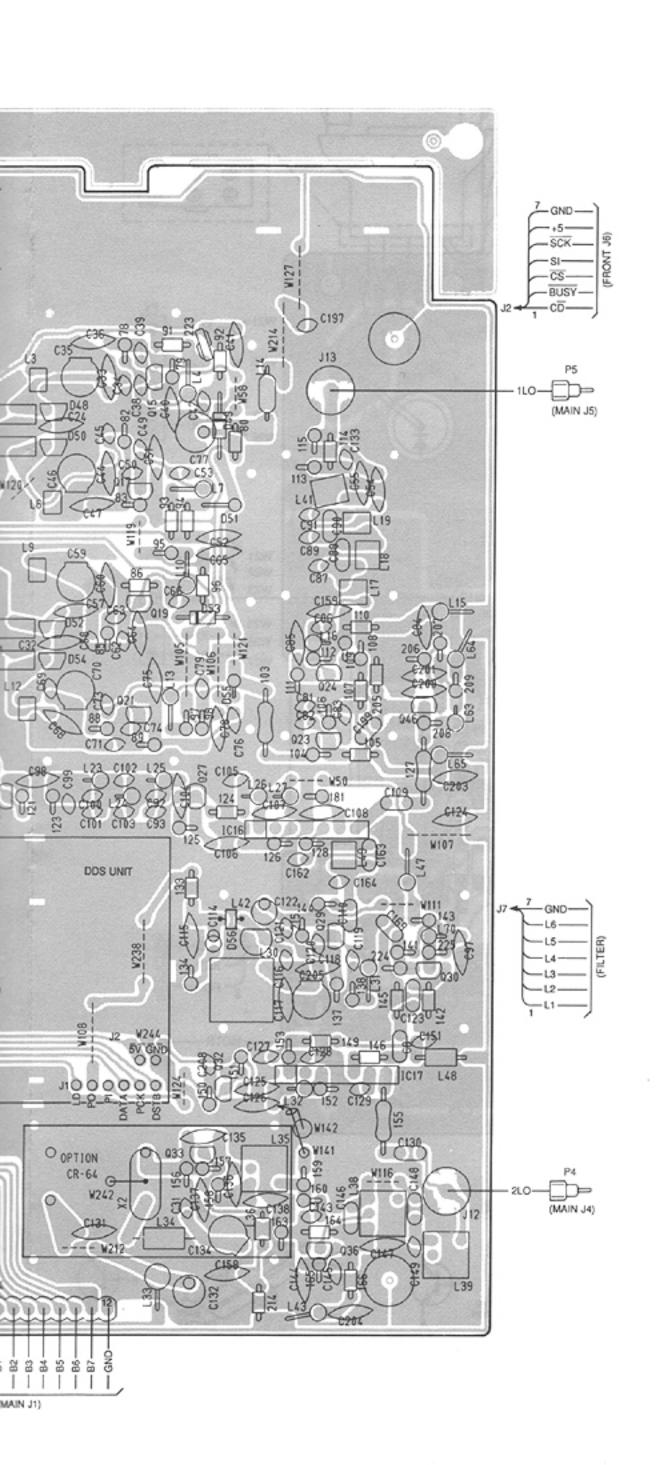
Q59

1SV101

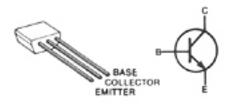
D101

## 8-4 PLL UNIT



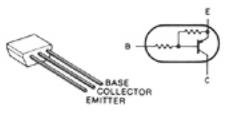


### 2SC2458 GR



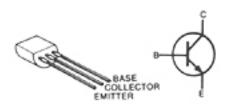
Q1, Q2, Q3, Q4, Q5, Q6, Q8, Q9, Q10, Q11, Q13, Q14, Q16, Q18, Q20, Q22, Q33, Q47, Q48

### RN2202



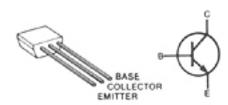
Q31

### 2SC1571G



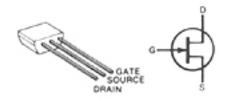
Q12

### 2SC2458 Y



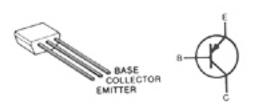
Q32

### 2SK192A GR



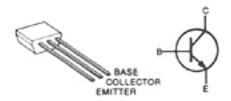
Q15, Q17, Q19, Q21, Q29

### 2SA1048 GR



Q37, Q49

## 2SC2668 0



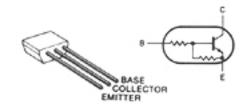
Q23, Q24, Q26, Q27, Q30, Q34, Q36, Q46

### 1SV101



D48, D50, D52, D54

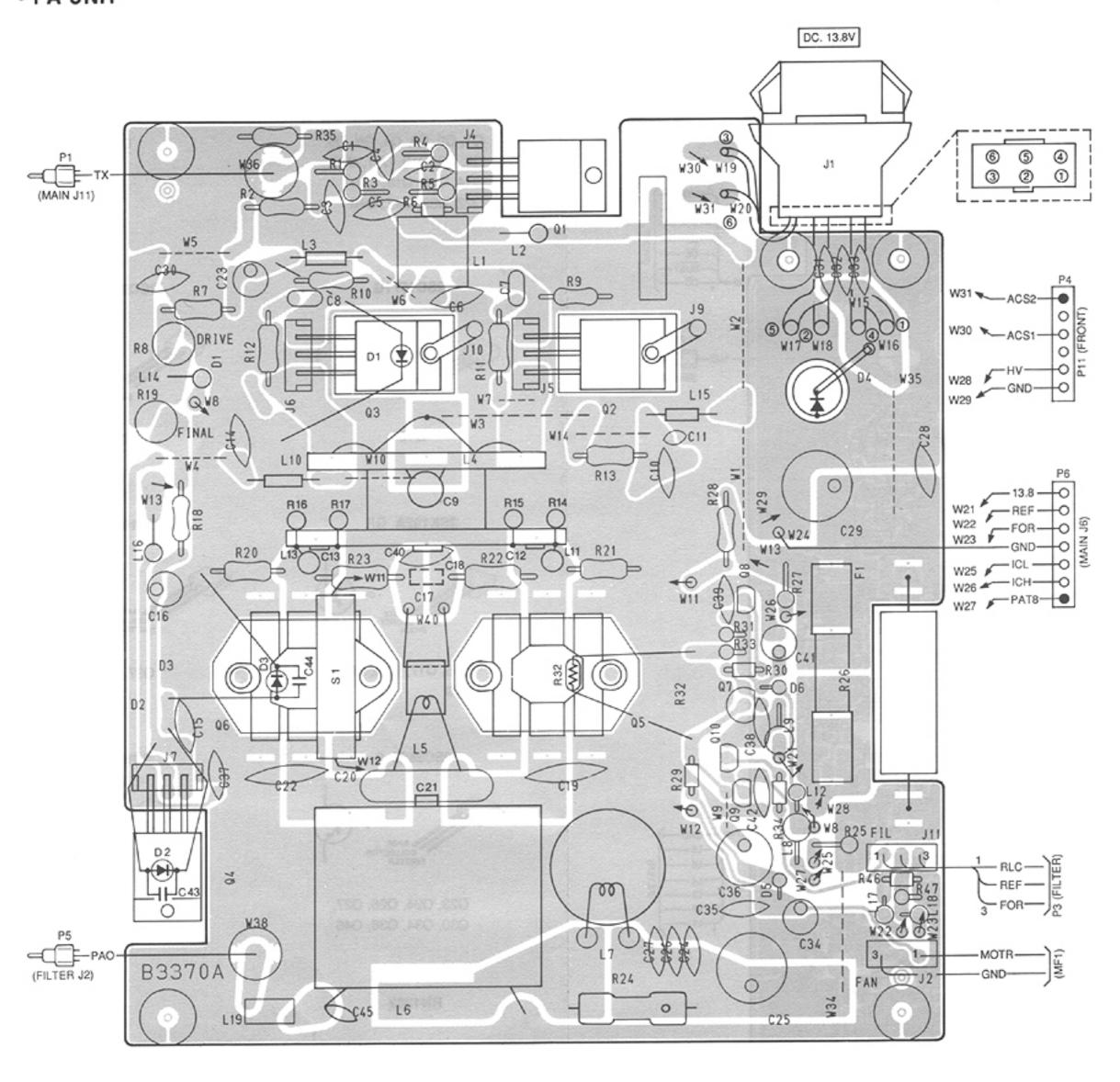
### RN1202

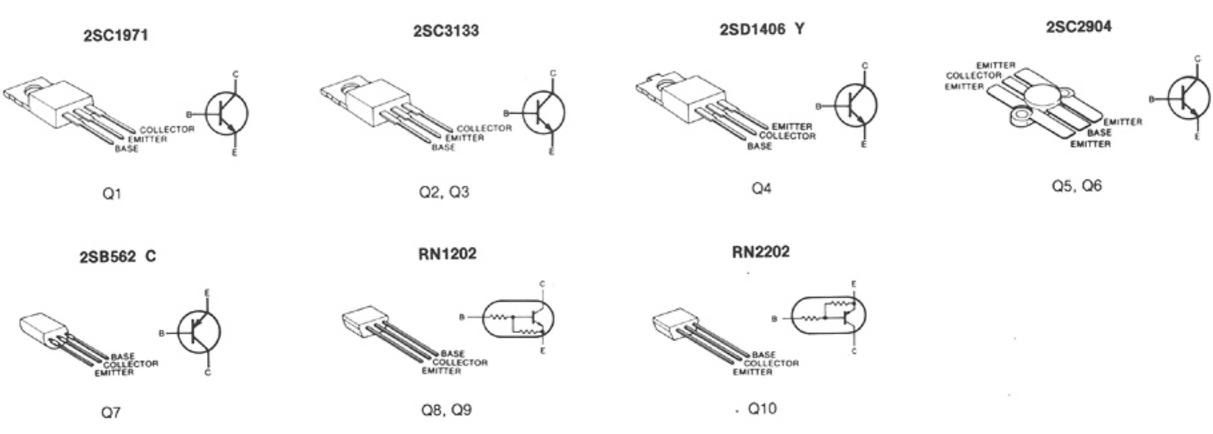


Q25, Q35

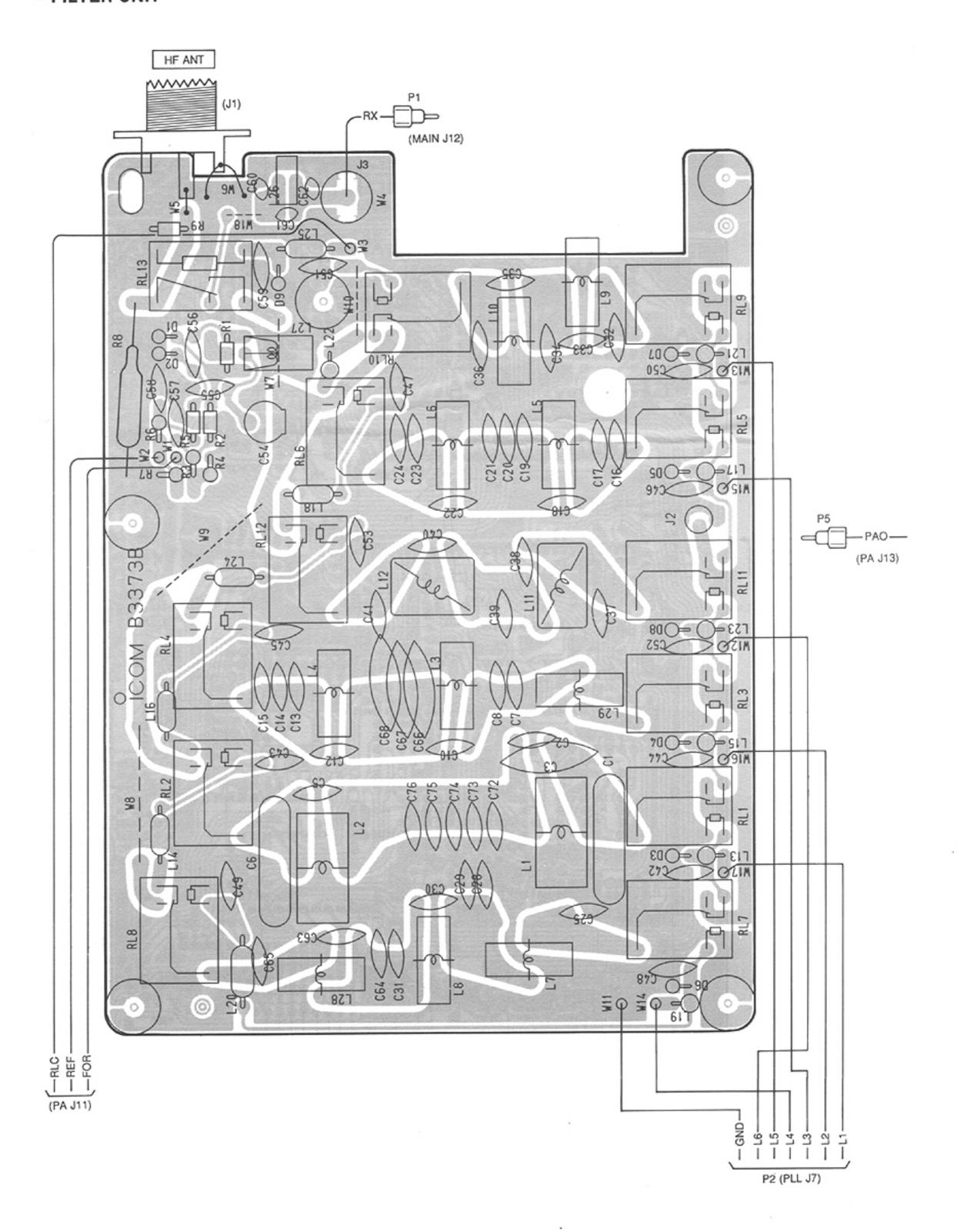
## 8-5 PA AND FILTER UNITS

### PA UNIT

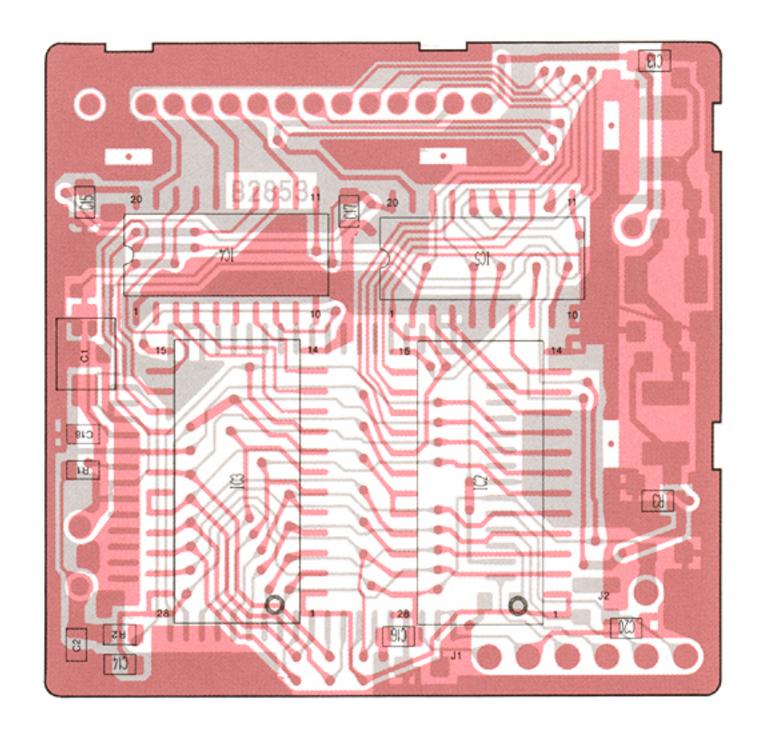


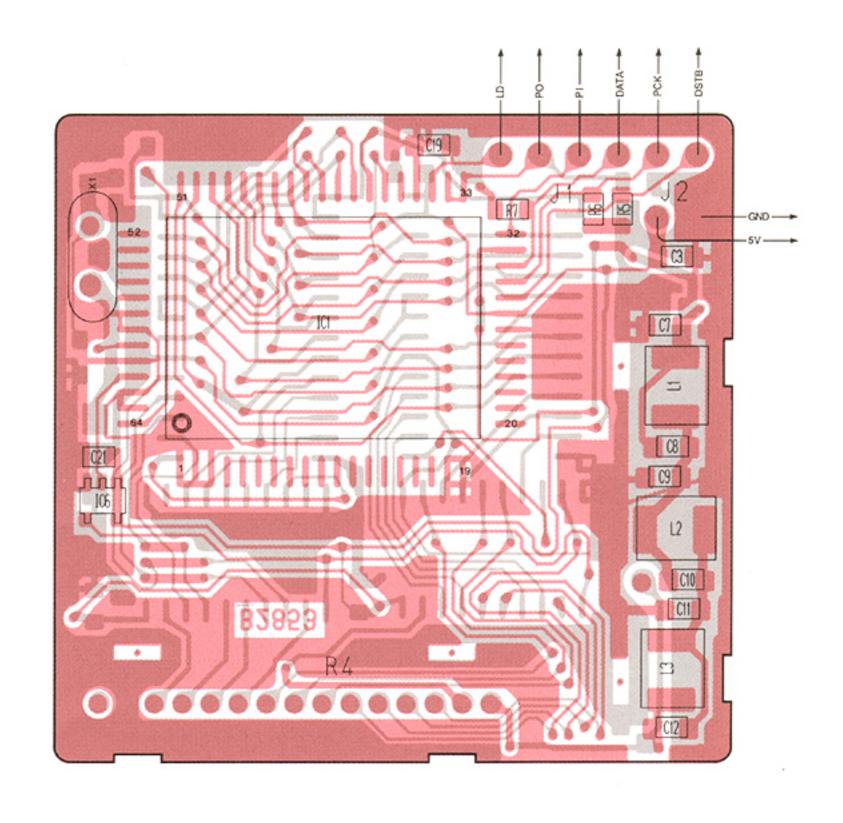


### • FILTER UNIT



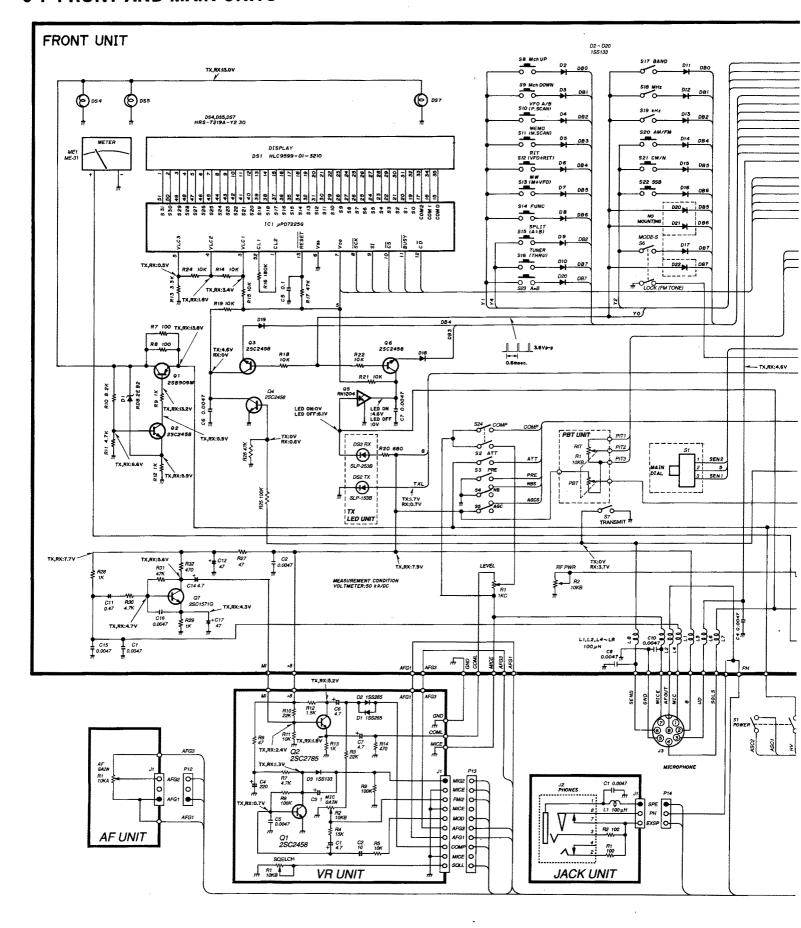
# 8-6 DDS UNIT

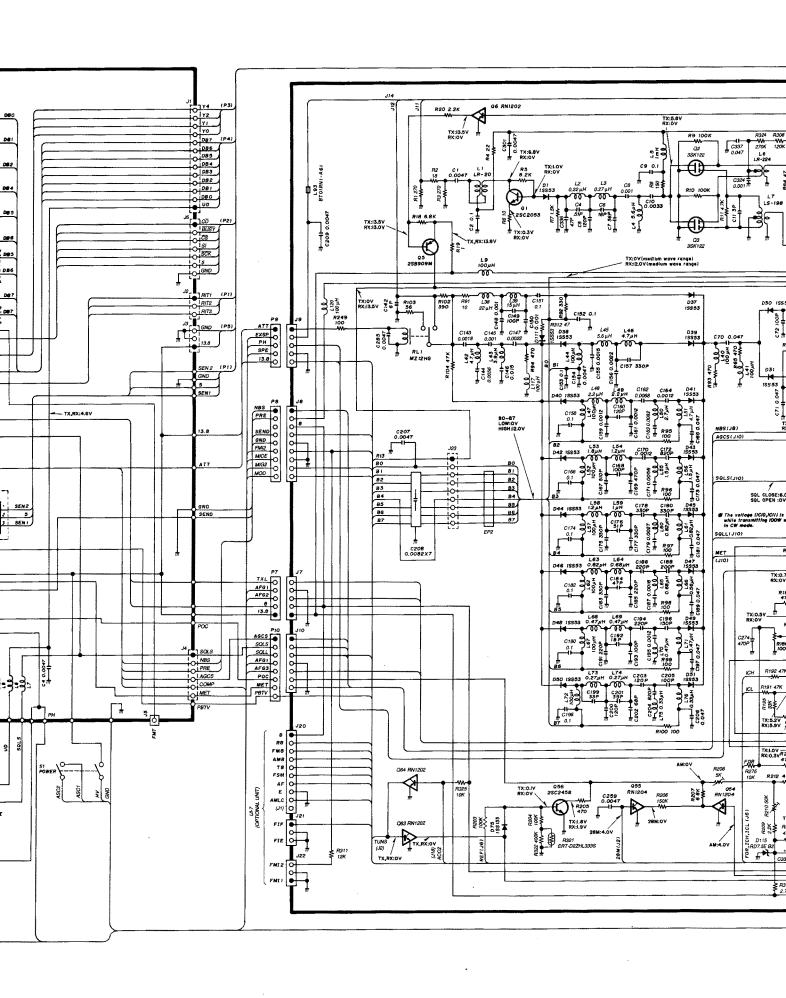


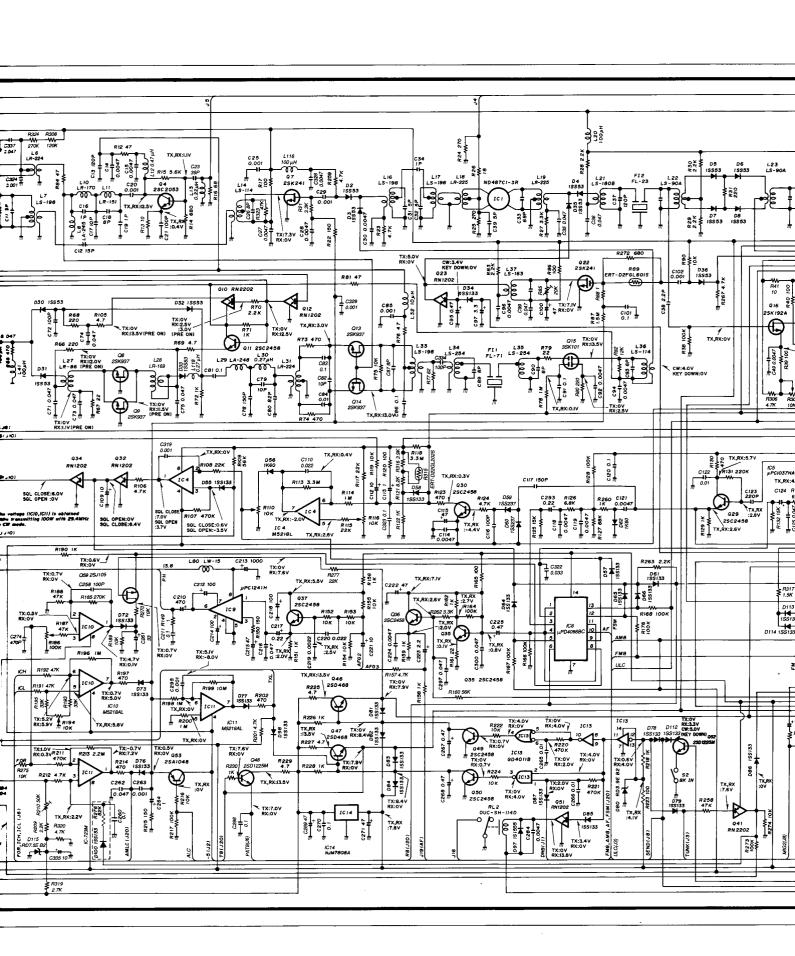


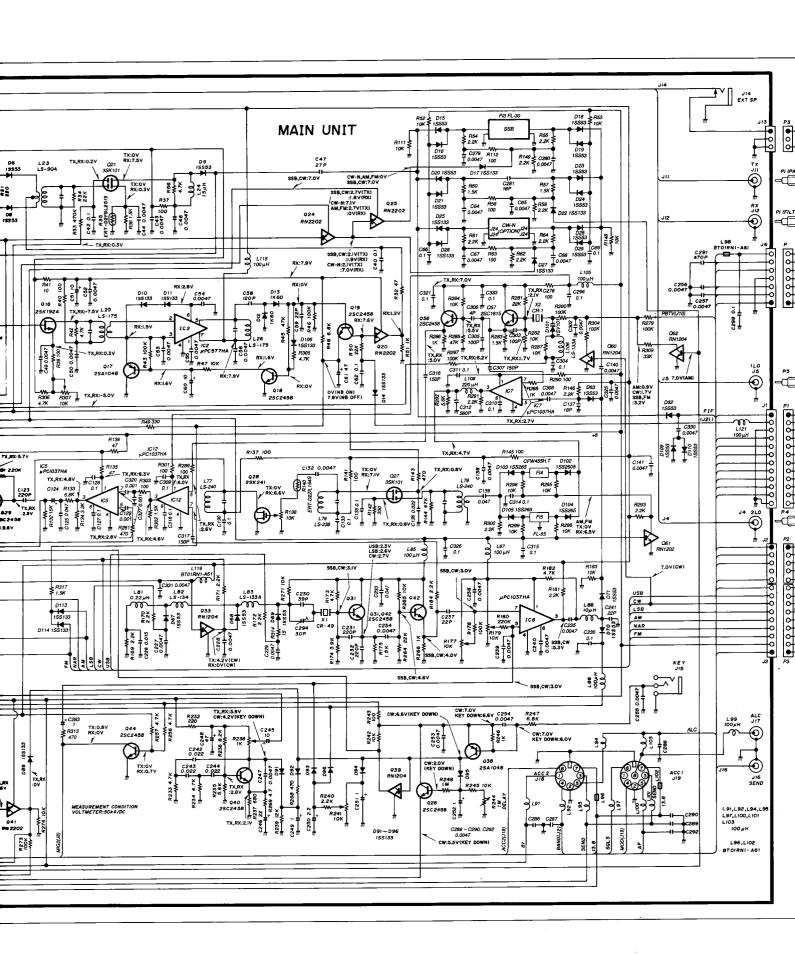
### SECTION 9 VOLTAGE DIAGRAM

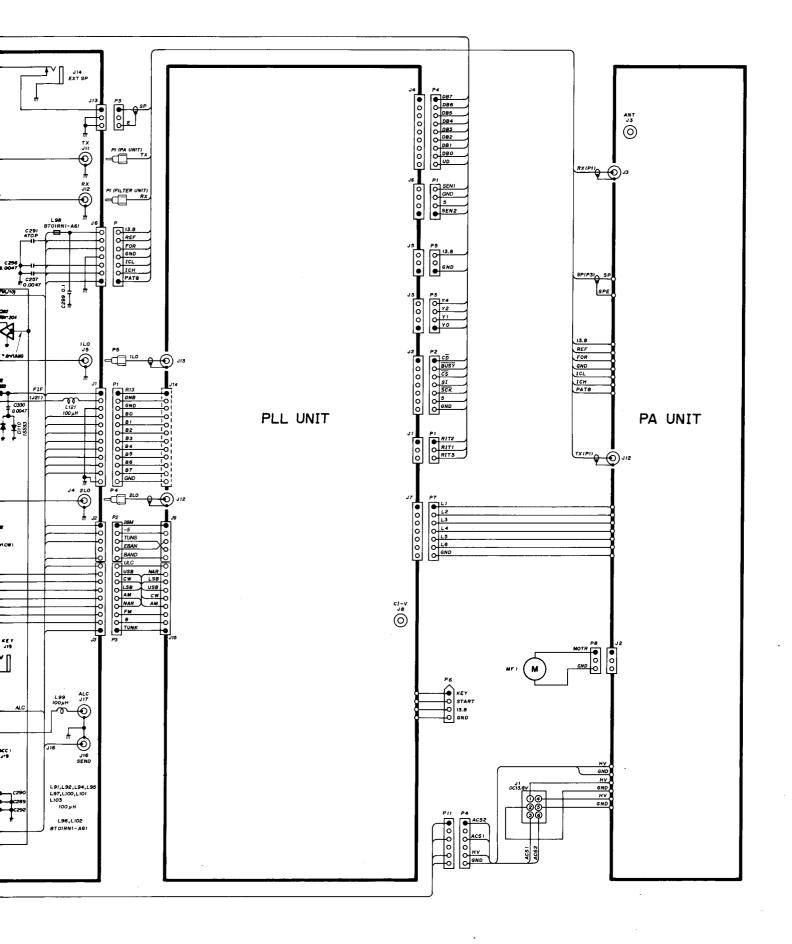
### 9-1 FRONT AND MAIN UNITS



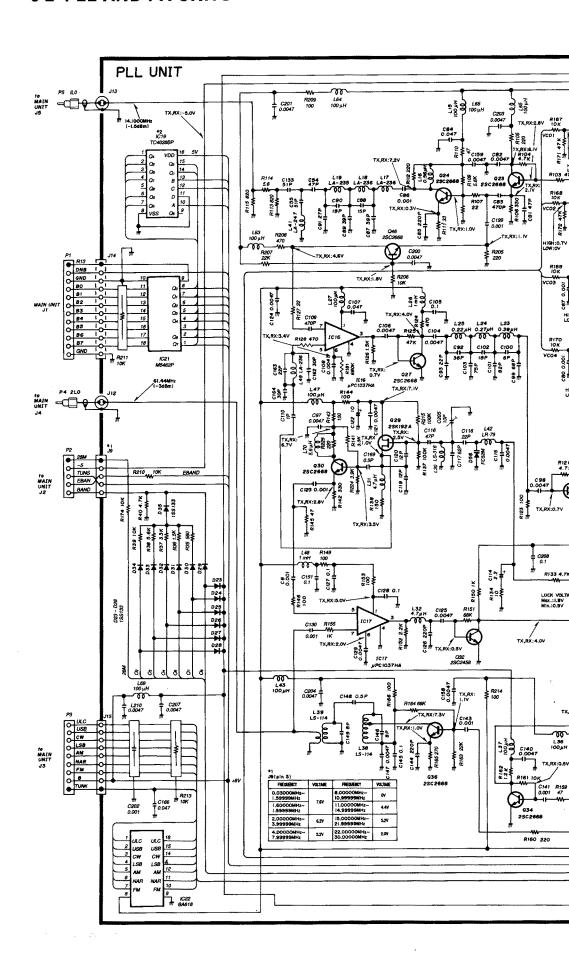


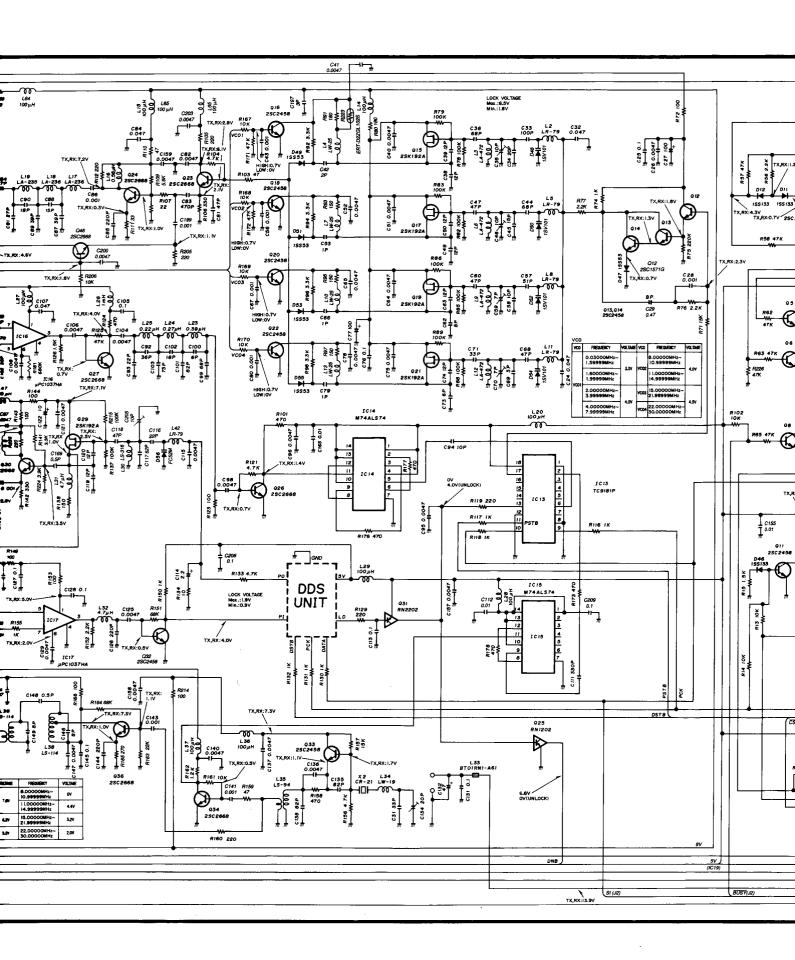


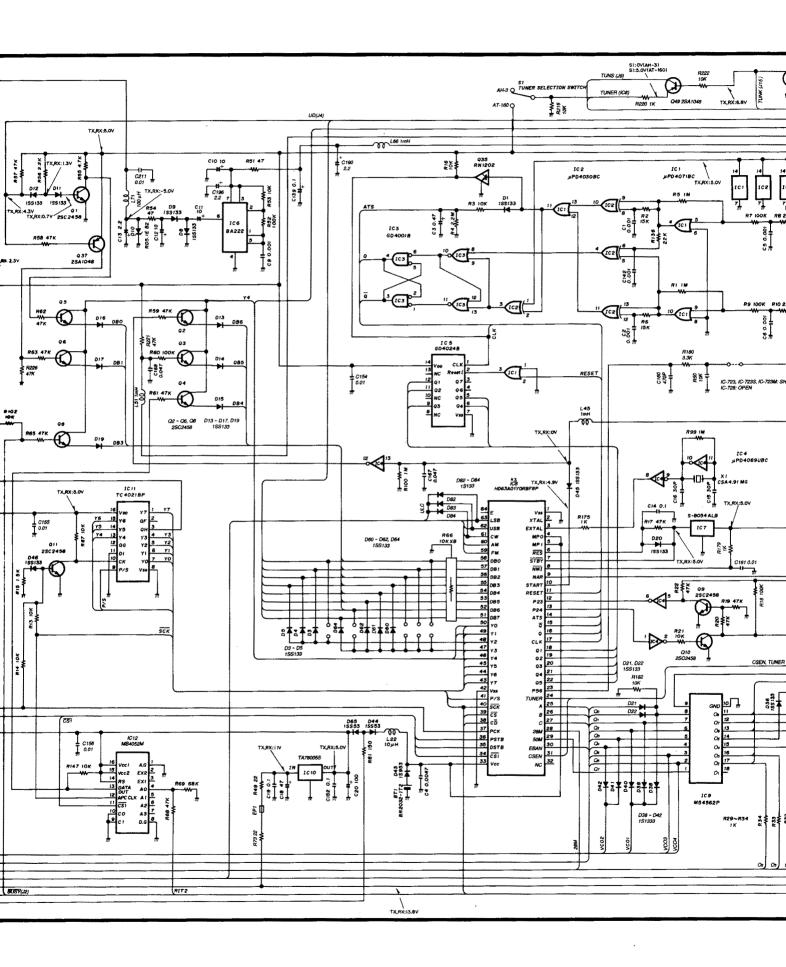


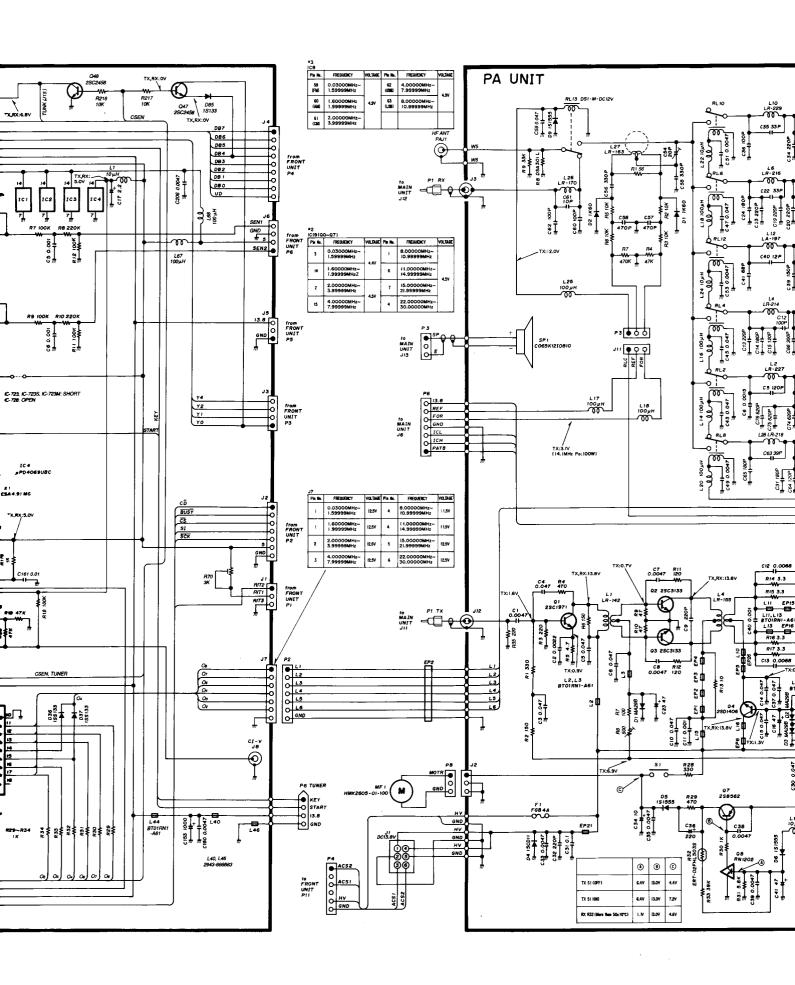


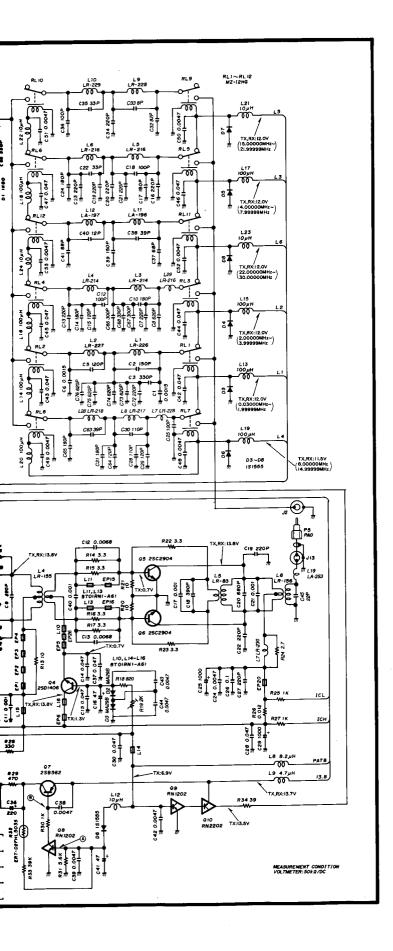
### 9-2 PLL AND PA UNITS











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