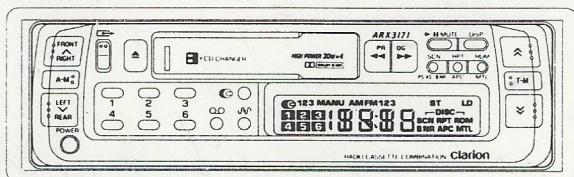
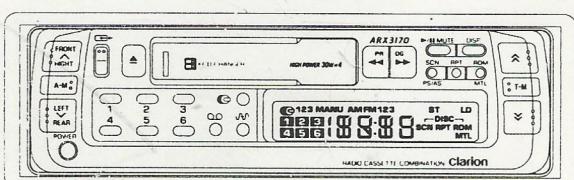


clarion Service Manual

Published by Service Dept.



Model **ARX3171** (PE-9950K-B)



Model **ARX3170** (PE-9954K-B)

■ SPECIFICATIONS:

General

Power Supply Voltage: 14.4 V (10.8 to 15.6 allowable), negative ground
 Current Consumption: Less than 10 A
 Speaker Impedance: 4 Ω (4 Ω to 8 Ω allowable)

FM Tuner

Frequency Range: 87.5 MHz to 108 MHz
 Usable Sensitivity: 12 dBf
 50 dB Quieting Sensitivity: 17dBf
 Alternate Channal Selectivity: 70dB
 Stereo Separation (@1 kHz,60 dBf): 35dB
 Frequency Response(±3 dB): 30 Hz to 15 kHz

AM Tuner

Frequency Range: 531 kHz to 1,629kHz
 Usable Sensitivity: 25μV

Cassette Deck

Wow & Flutter (WRMS): 0.1%
 Stereo Separation (1 kHz): 45 dB
 Signal-to-Noise Ratio
 70 μs (CrO₂, FeCr, Metal/DOLBY ON): .. 56 dB/66 dB
 Frequency Response (±3 dB)
 120 μs (Normal): 30 Hz to 16 kHz
 70 μs (CrO₂, FeCr, Metal): 30 Hz to 18 kHz

Power Amplifier

Maximum Power Output: 120 W (30 W x 4)
 Continuous Average Power Output: 14 Wx4, into 4 Ω ,20. Hz to 20kHz, @ 1% THD

Pre-Amplifier

Bass Control (@ 100Hz): ±10 dB
 Treble Control (@ 10kHz): ±10 dB
 Line Output (@ 1 kHz,10 k Ω): 1000 mV

Dimensions:178(W)×50(H)×52(D)mm

Weight:1.3 kg (45.8 oz)

Notes:

- Specifications comply with EIA standards
- Due to improvements, specifications and design are subject to change without notice.

■ COMPONENT:

- PE-9950K-B / PE-9954K-B

Main Unit

Part's Bag	921-9258-00	1
Hook Plate	330-8216-01	
Lead Holde	335-0833-01	
Special. Sc	716-0496-01	

Extension Lead

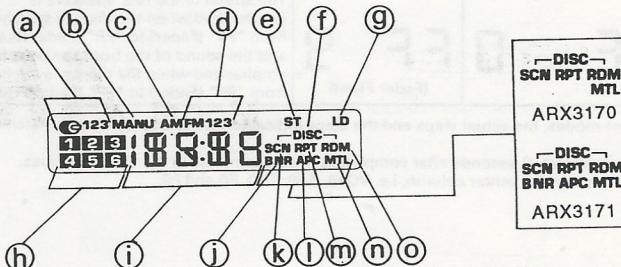
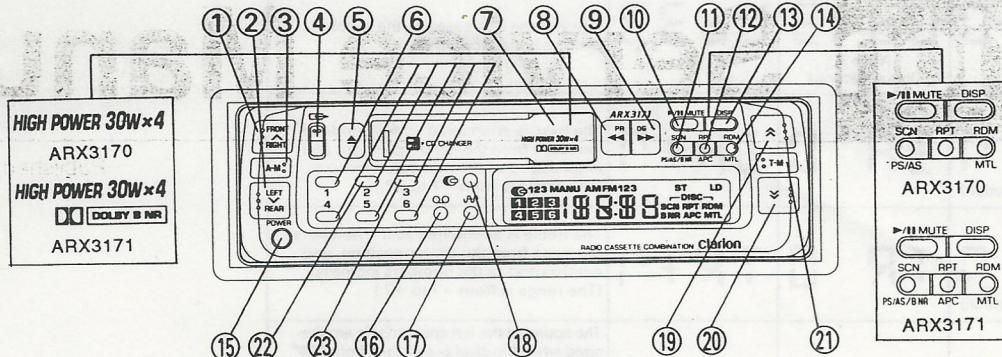
854-3800-01 1

MTG Bracket (Univ.)

3009035,01



■ OPERATION:



■ Operation of the Audio and General Controls

* Power Switch ⑯

Press this button to turn power on.

* Audio Mode Selector/Loudness Switch (A.M.) ③

- Normally the audio mode is set to the volume adjustment mode.

When button ③ is pressed, the mode switches in the following order:

Volume adjustment → Bass adjustment → Treble adjustment → Left/right balance adjustment → Front/rear balance adjustment → Volume adjustment.

* Turning the loudness mode on and off

When button ③ is held in for over 2 seconds, the loudness mode turns on and "LD" indicator ⑨ appears on the display. The loudness mode emphasizes the low and high frequencies when the volume is low to create a more powerful sound. Press the button again for over 2 seconds to turn loudness off.

* Audio Control Up Button ①

AUDIO CONTROL DOWN BUTTON ②

Press button ① to increase the volume, and button ② to decrease the volume. These buttons are also used in other adjustment modes.

* Setting the DSP Mode

If a Digital Sound Processor is part of your system, then be sure to set the DSP mode.

Set the volume to MAX. (Vo33). Press button ② while holding in button ⑬. The volume and tone can then be adjusted from the DSP unit.

* Setting the EQ Mode

If an Equalizer is part of your audio system, then be sure to set the EQ mode.

Press button ② while holding in button ⑬. The tone can then be adjusted from the equalizer.

■ Using the Clock

* Displaying the Time

Press button ⑬. Press the button again to turn the time display off. The display switches as follows depending on the selected audio mode:
Tuner mode: Reception frequency ↔ Time
Cassette tape mode: TAPE ↔ Time
CD changer mode: Track no. → Playing time → Time

* Setting the Time

1. Press button ⑬ to turn on the time display.
2. Press button ⑬ for over 2 seconds. The minutes place begins flashing.
3. Press button ⑬ again to advance the minutes, one minute at a time. (The minutes advance continuously if the button is held in.)
4. 7 seconds after the minutes place has been set, the hours place begins flashing. Press button ⑬ to advance the hours, one hour at a time. (The hours advance continuously if the button is held in.)
- The time adjustment is completed if nothing is done for 7 seconds.

* Starting the Clock

1. Press button ⑬ to turn on the time display.
2. Press button ⑬ for over 4 seconds. The hours and minutes begin flashing.
3. Press button ⑬ again to reset the seconds to 0 and start the clock.

* Monitor

The tape deck continues to operate even if the mode is switched for example to the radio mode while fastforwarding, rewinding or searching on a tape.

■ Audio Mode Indications and Description of Operation

Audio Control Up/Down Buttons		Center Position		Description of Operation
VOL (volume adjustment)	Uo 0 Uo 13 Note 3 (initial setting)	Uo 13	Uo 33	The volume decreases as the numbers decrease and vice versa.
BASS (bass adjustment)	BA - 7 BA 0 BA + 7 (negative indication)	BA 0	BA + 7	The bass is attenuated as the numbers decrease from the center position, and emphasized as the numbers increase. (The range is from -7 to +7.)
TREB (treble adjustment)	TR - 7 TR 0 TR + 7 (negative indication)	TR 0	TR + 7	The treble is attenuated as the numbers decrease from the center position, and emphasized as the numbers increase. (The range is from -7 to +7.)
BAL (left/right balance adjustment)	BL 9 B 0 BR 9 (Balance Left)	B 0	BR 9 (Balance Right)	The sound of the left speaker(s) is emphasized when the display switches from "BO" (Balance) to "BL" (Balance Left), and the sound of the right speaker(s) is emphasized when the display switches from "BO" (Balance) to "BR" (Balance Right).
FAD (front/rear balance adjustment)	FR 9 F 0 FF 9 (Fader Rear)	F 0	FF 9 (Fader Front)	The sound of the rear speakers is emphasized when the display switches from "FO" (Fader) to "FR" (Fader Rear), and the sound of the front speakers is emphasized when the display switches from "FO" (Fader) to "FF" (Fader Front).

Note 1: In the balance and fader adjustment modes, the actual steps and the steps indicated on the display do not match due to the large number steps.

Note 2: The original display reappears approximately 7 seconds after completing the adjustments in the various modes.

Note 3: The audio mode default values are those in the center column, i.e. VO13, BA0, TR0, BO and FO.

■ Operation of the Tuner Controls

* Tuner Mode Selector/Band Selector Button (MANU)

● Selecting the Tuner Mode

Use this button to switch from other program sources to the tuner mode.

When this button is pressed, the frequency appears on the display.

● Switching the Band

Press this button to switch the band in the following order:

FM1 → FM2 → FM3 → AM → FM1

(FM1, FM2 and FM3 have the same frequency range.)

* Tuning Mode Selector Button (T.M.)

Use this button to select the tuning mode (manual or seek). The manual tuning mode is set when this button is pressed and the "MANU" indicator b appears on the display.

● Manual Tuning

Use this mode to find broadcast stations by yourself. The frequency changes in steps of 10 kHz in the AM mode, 200 kHz in the FM mode.

1. Press button ① and set the manual tuning mode.

2. Press button ⑨ to increase the frequency, and button ⑩ to decrease the frequency. (The frequency changes continuously if either button is held in.)

● Seek Tuning (Automatic Tuning)

Use this mode to find broadcast stations automatically.

1. Press button ① and set the seek tuning mode.

2. Press button ⑨ to move to higher frequencies and button ⑩ to move to lower frequencies. Tuning stops when a broadcast station is found.

* Mute Button (MUTE)

Use this button to instantly turn off the sound. When pressed, the sound turns off and the "MUTE" indicator flashes on the display. Press the button again to cancel the mute mode.

* Preset Buttons 1, 2, 3, 4, 5 and 6

Stations can be stored on preset buttons 1 through 6, and later recalled simply by pressing the corresponding button.

★ Presetting Stations

Six stations can be stored in the memory for each band. Since there are three FM bands, a total of 18 FM stations can be stored together with six stations on AM.

1. Press button ⑦ to select the band (FM1, FM2, FM3 or AM).
2. Press button ⑪ for at least 2 seconds to automatically store stations in the memory. (Auto Store memory function)

Use the following procedure if in step 2 less than six stations were stored in the memory, or to store stations with weak signals.

3. Press button ② to set the manual tuning mode.
4. Use buttons ⑨ and ⑩ to tune in the desired station.
5. Press the Preset button on which you want to store that station for at least 2 seconds. The sound turns off when the button is pressed, and turns back on once the station has been stored in the memory.

* Preset Scan/Auto Store Memory Button (PS/AS)

● Preset Scan Function

When this button is pressed, the stations stored on preset buttons 1 to 6 are tuned in, in order, for 7 seconds each.

To stop scanning, either press this button again, or press one of the Preset buttons. (When receiving an FM stations, all the stations preset for the FM1, FM2 and FM3 bands are tuned in order.)

● Auto Store Memory Function

Use this function to automatically preset six stations with strong signals for each band. This function comes in handy when driving in areas away from home.

Press button ⑪ for at least 2 seconds. The stations are automatically stored in the memory. (Refer to "Presetting Station".)

Note: When the auto store memory function is used, the stations previously stored in the memory are cancelled. If there are fewer than six stations with strong reception, the previously stored stations remain in the memory.

* Stereo Indicator (ST)

The "ST" indicator ④ appears on the display when a stereo broadcast is received.

■ Switchable Frequency Setting

This car stereo is initially set to tune in frequency intervals of 10 kHz for AM and 200 kHz for FM, the standard calibrations in the U.S. When using the unit outside the U.S., use the following procedure to switch the frequency steps and frequency range:

- 1) Turn the power on and set the tuner mode.
- 2) Keep button ⑦ pressed and while pressing the button, press button ⑩ for at least 2 seconds.
- 3) Release the buttons.

This procedure changes the factory setting to 9 kHz steps for AM and 50 kHz steps for FM, the standard calibrations for countries other than the U.S.

To change the AM/FM setting back to the U.S. standard frequencies:

- 1) Set the tuner mode.
 - 2) While pressing button ⑯, press button ⑯ for at least 2 seconds.
 - 3) Release the buttons.
- Your car stereo will once again be calibrated to receive standard U.S. transmissions.

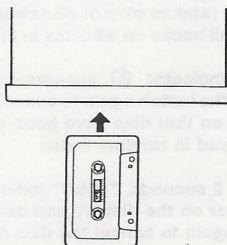
The chart below lists the frequency specifications for the U.S. and other countries.

		Initial Setting (U.S. standard)	New Setting (outside U.S.)
AM	Frequency spacing	10 kHz	9 kHz
	Frequency range	530 to 1710 kHz	531 to 1629 kHz
FM	Frequency spacing	200 kHz	100 kHz
	Frequency range	87.9 to 107.9 MHz	87.5 to 108 MHz

■ Operation of the Cassette Tape Controls

★ Playing Cassette Tapes

Insert the cassette tape sideways with the side on which the tape is exposed facing the right. "TAPE" and the tape travel indicators appear on the display.



■ Selecting the Tape Mode

Use the Tape Mode Selector button to select the cassette deck as the program source.

The tape mode is automatically set when a cassette tape is inserted if another mode was set.

* Tape Mode Selector Button ⑯ ⑯

When this button is pressed, "TAPE" appears on the display and tape playback begins. If no cassette tape is loaded, "CASS" appears on the display.

* Play/Pause Button (▶/II) ⑯ ⑯

Press this button to switch between the play and pause modes.

* Eject Button (▲) ⑯ ⑯

The cassette tape is ejected when this button is pressed. When pressed during tape playback, the mode switches to the tuner mode.

* Fast-Forward/Rewind and Program Selector Buttons (◀/▶) ⑯ ⑯

⑯ and ⑯

● Fast-Forward and Rewinding

1. When playing the top side of the tape (when the tape travel indicators light clockwise)

To fast forward: Press and hold button ⑯

To rewind: Press and hold button ⑯

2. When playing the bottom side of the tape (when the tape travel indicators light counterclockwise)

To fast forward: Press and hold button ⑯

To rewind: Press and hold button ⑯

3. To stop fast-forwarding or rewinding:

Press the opposite button.

● Switching the Program (direction of tape travel)

Press buttons ⑯ and ⑯ together. The tape starts playing in the opposite direction, and the tape travel indicators turn in the opposite direction.

* Metal Tape Selector (MTL) ⑯ ⑯

Use this to select the equalizer time constant appropriate for the tape being used. Press this button when using metal or chrome tapes. Press the button again to return to the normal setting.

* APC (Automatic Program Control) (Only ARX3171) ⑯ ⑯

1. Press button ⑯. The "APC" indicator ⑯ will light up.

2. During top side playback (tape travel indicators light clockwise):
When you press button ⑯, the tape will rewind to the beginning of the track being played.
When you press button ⑯, the tape will fast-forward to the beginning of the next track.

3. During bottom side playback (tape travel indicators light counterclockwise):

When you press button ⑯, the tape will fast-forward to the beginning of the next track.
When you press button ⑯, the tape will rewind to the beginning of the track being played.

4. Release

Press button ⑯

* APC cannot be used on the kinds of tapes listed below. If APC fails to function when such a tape is being played, it does not mean that the unit is faulty.

- Tapes with a low recording level.
- Tapes on which the non-recorded sections between the tracks are shorter than 4 seconds.
- Tapes with long pauses during tracks.
- Tapes with noise recorded between tracks.

* Dolby B NR Button ⑯ ⑯

When playing tapes recorded with Dolby Noise Reduction, press button ⑯ so that the "B NR" indicator ⑯ lights up. When you press the button again, the setting is released.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" and the double-D symbol ⑯ are trademarks of Dolby Laboratories Licensing Corporation.

Button No. and Operation Mode

Disp'

Explanation of the Display

Tape Playback (playback of top side)		TAPE	The tape travel indicator lights clockwise. ("TAPE" display)
⑯ and ⑯ Playback direction changed (playback of bottom side)		TAPE	The tape travel indicator lights counter-clockwise. ("TAPE" display)
⑯ or ⑯ Fast-forward or rewind (FF or REW)		TAPE	The Tape Travel indicator flashes. ("TAPE" display)
⑯ Pause		PAUS	The Tape Travel indicator lights constantly. ("PAUS" display)
CASS (Place a cassette)		CASS	Displayed when no cassette is loaded in the deck. ("CASS" flashes)

■ Operation of the CD Changer Controls

This unit can be connected to a CD changer (sold separately) to enjoy the superior sound of Compact Discs.

* CD Changer Mode Selector Button (C) (18)

Use this button to switch to the CD changer mode from any other program source. When pressed, the "C" indicator (1), the disc number indicator (2) and the track number appear on the display and playback begins.

Note 1: "DISC" flashes on the display if no magazine is loaded in the CD changer.

Note 2: The "C" indicator (1) and "Conn" flash on the display if the CD changer is not connected properly.

* Last Position Memory

The track which was playing when the power was turned off or before the mode was switched is stored in the memory. When the CD changer mode is next set, playback begins from the track which was previously playing.

Note: The memory for the track which was previously playing is cleared when the magazine is removed.

* Play/Pause Button (▶/II) (10)

Press this button to switch between the play and pause modes.

* Disc Up Search Button (C) (18)

Press this button to start playing the next disc. The disc changes in order each time this button is pressed. If fewer than six discs are loaded in the magazine, the corresponding disc numbers are skipped.

* Magazine select button (C) (18)

Selecting the magazine

- When a 12-disc or 18-disc changer is connected:

Press this button for more than two seconds to increment the magazine number one number at a time and begin playback.

Playback starts from the first track on disc no. 1.

* Direct Disc Buttons (1) (6)

Use these buttons (1 to 6) to play the disc with the corresponding number. Nothing happens if a button at which no disc is loaded is pressed. If the number of the disc currently playing is pressed, playback returns to the first track on the disc. ("TOP function")

* Search Control Up Button (↑) (10)

Search Control Down Button (↓) (20)

Use these buttons to search for track numbers or to audibly fast forward/fast back search the disc.

- Searching for Track Numbers

Press button (9) to select a higher track number, and button 20 to select a lower one. The track numbers are indicated on the display.

- Cueing/Reviewing (high-speed playback)

Press and hold in button (9) to move forward, or press and hold in button (20) to move backward. The disc is played at 3 times the normal speed if the button is held for over 1 second, at 30 times the normal speed if the button is held for 3 more seconds. The sound can be heard during forwarding or reversing.

* Repeat Button (RPT) (12)

There are two repeat modes: track repeat for playing a single track repeatedly, and disc repeat for repeating an entire disc.

- Track Repeat

Press button (12). The "RPT" indicator (1) appears on the display and the track currently playing is played repeatedly. Press the button again to cancel the repeat mode.

- Disc Repeat

Press button (12) for more than 2 seconds. "DISC" indicator (1) and the "RPT" indicator (1) appear on the display, and the disc currently playing is play repeatedly. Press the button again to cancel the repeat mode.

* Scan Button (SCN) (11)

With this function, the first 10 seconds of each track can be played to make it easy to find the desired track. There are two scanning modes: track scan for playing the beginning of each track on a disc, and disc scan for playing the beginning of the first track on each disc.

- Track Scan

Press button (11). The "SCN" indicator (1) appears on the display and track scanning starts. When pressed again, scanning is cancelled and playback continues from that point. After the last track on the disc is scanned, track scanning continues from the next disc.

- Disc Scan

Press button (11) for more than 2 seconds. "DISC" indicator (1) and the "SCN" indicator (1) appear on the display and disc scanning starts. Press the button again to cancel the scan mode.

* Random Play Button (RDM) (14)

There are two random play modes: random play of all selections on one disc at a time, and random play of all tracks on all discs in the magazine.

- Random Play of One CD

Press button (14). The "RDM" indicator (1) appears on the display and random play begins. Press the button again to cancel the random play mode. Once all the tracks on that disc have been played, the tracks on the next disc are played in random order.

- Random Play of All CDs

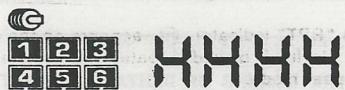
Press button (14) for more than 2 seconds. "DISC" indicator (1) and the "RDM" indicator (1) appear on the display and disc random play begins. Press the button again to cancel the disc random play mode.

The tracks are selected at random from all discs in the magazine, so the same track may be played more than once.

Problem	Causes	Measure
Power does not turn on (or no sound is produced).	Fuse is blown. Connections are improper.	Replace with a fuse of the same amperage as the old fuse. Read the connection instructions once more and connect properly.
Sound quality is poor.	Head is dirty.	Use a cleaning tape, etc., to clean the head.
Nothing happens when buttons are pressed, or display is wrong.	Microprocessor has malfunctioned due to electronic noise, etc.	Use a thin rod, etc., to press the reset button.



This unit is equipped with a number of self-diagnosis functions to protect the system. If a problem should occur, the user is warned through various error displays. Eliminate the problem using the procedures shown below.

Error Display	Procedure
	This indicates that playback has been stopped automatically due to a rise in the temperature inside the CD changer or a rise in the surrounding temperature. → Lower the temperature around the CD changer and wait a while.
	This indicates that a problem has occurred with the CD changer's mechanism (disc cannot be changed or ejected, etc.) → The CD changer mechanism is likely damaged. Contact your store of purchase.
	This indicates that the pickup is out of focus during playback due to scratches on the disc, etc.
	This indicates that the CD's TOC (table of contents) cannot be read, for example because the selected disc is upside-down.

* If a display other than one of the displays above appears, press the reset button. If the problem persists, turn the power off and contact your store of purchase.

■ FEATURES:

Tuner

- Electronic Quartz-Locked PLL Tuning ■ 18 FM/6 AM Touchbutton Memory ■ Seek Up/Down Tuning ■ Preset Station Scan (PS) ■ Automatic Station Store (AS) ■ Magi-Tune ■ FM Reception System ■ Auto DX/Lo (Keyed AGC) ■ Dual Gate FET/Balanced Mixer FM Front-End ■ Signal Actuated Stereo Control (SASC) ■ FM Noise Canceller (Clean Z1) ■ Optimum IF Filter ■ Soft Muting ■ Switchable Frequency Spacing

Tape

- Auto Reverse ■ Electronic DC Servo Motor ■ Locking FF/REW ■ Tape Equalization Selector (MTL) ■ Hard Permalloy Dual Gutter Head ■ Illuminated Tape Door ■ Dolby B Noise Reduction ■ Automatic Program Control-(APC)

CD Changer Control

- 6/12/18 Disc Changer Control Capability ■ Direct Disc Select ■ Play/Pause Button ■ Random Play (Track/Disc) ■ Intro Music Scan (Track/Disc)

- Music Selection Repeat (Track/Disc) ■ Track Music Search ■ Audio FF/FB

Audio

- Electronic Audio Controls ■ Bass & Treble Controls ■ 4-way Balance Controls ■ Loudness Contour ■ Audio Muting ■ 2-Channel RCA Line Level Output ■ Max. Power Output 30 Wx4

General

- Multi-Mode LCD "Full Information Display" ■ Amp Turn-On Trigger ■ Radio/Tape/CD Mode Selector ■ Digital Quartz Clock ■ Monitor

Chassis

- DIN Chassis with Detachable Control Panel ■ ISO Mounting Capability

■ ADJUSTMENTS:

• FM Circuit (TUNER PACK)

ITEM	TEST-POINT	ADJUSTMENT POINT/TEST POINT
OV	IFT2	1.CONNECT THE DIGITAL VOLT-METER TO TP2 AND TP3. 2.INPUT THE 98.1MHZ/65dB SIGNAL (NO MOD.),AND ADJUST THE READING OF DIGITAL VOLT-METER TO $0\pm30mV$ BY IFT2.
S-METER	VR1	1.CONNECT THE DIGITAL VOLT-METER TO TP4. 2.INPUT THE 98.1MHZ/30dB SIGNAL (NO MOD.) 3.ADJUST THE LEVEL TO $2.4\pm0.1V$ BY VR1.

TOP VIEW	BOTTOM VIEW

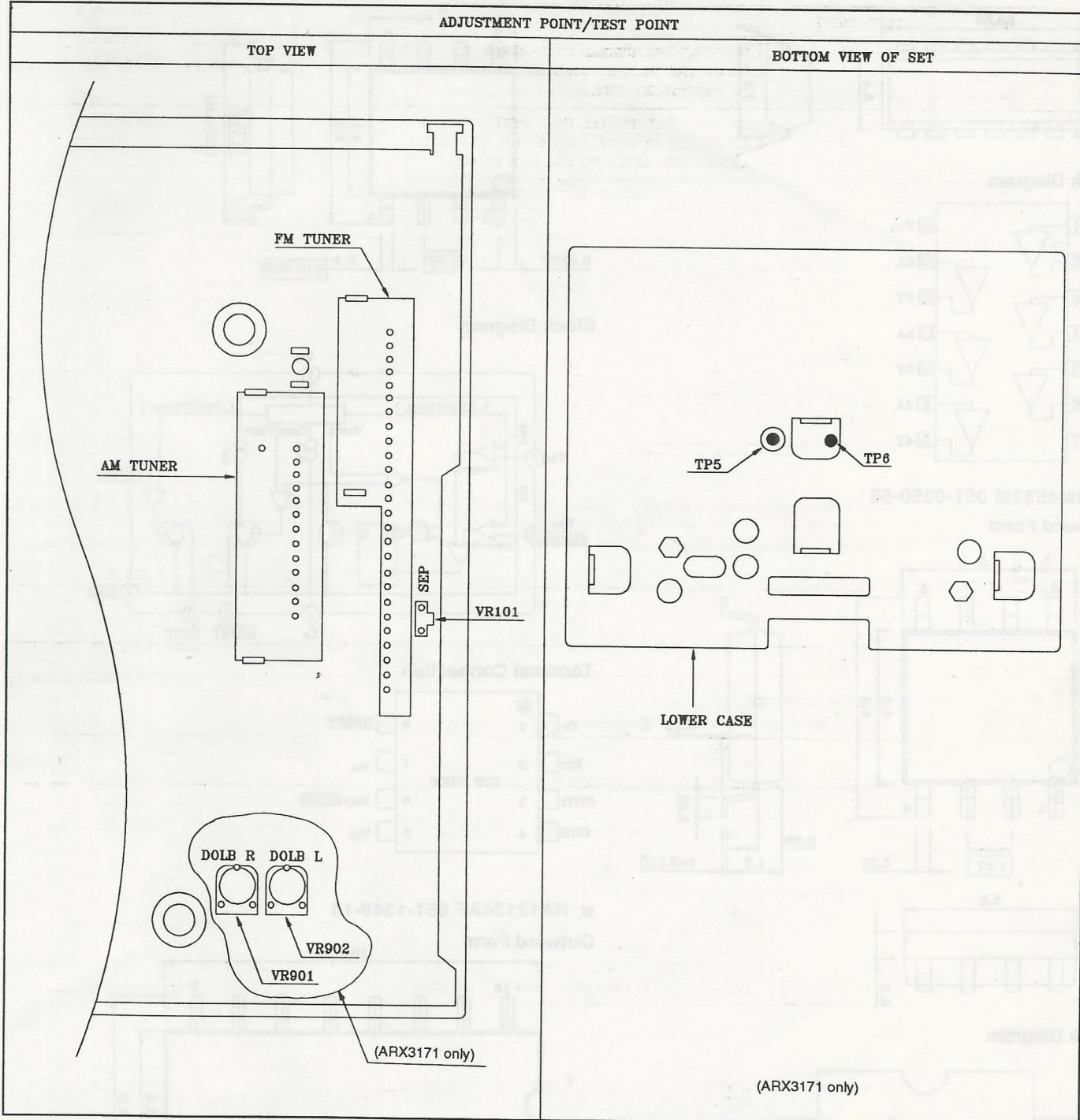
● AM CIRCUIT(TUNER PACK)

ITEM	TEST-POINT	PROCEDURE
● IF ● TRACKING	PRE-ADJUSTED TUNER	

● MAIN PWB

ITEM	TEST-POINT	PROCEDURE
TAPE DOLBY NR (ARX3171 only)	VR901 VR902	1.INSERT A DOLBY LEVEL TEST TAPE (400HZ-200nwb/m),CONNECT THE MILLI VOLT-METER TO TP5 (L) AND TP6 (R). 2.ADJUST VR 902 (L) AND VR 901 (R) TO OBTAIN AN OUTPUT OF $300mV\pm1dB$.
FM SEPARATION	VR101	1.INPUT THE 98.1MHz, CONNECT THE OUTPUT OF A STEREO MODULATOR TO THE EXTERNAL MODULATION TERMINAL, AND INPUT A 65dB SIGNAL. 2.SET THE STEREO MODULATOR TO THE L OR R-ch AND ADJUST VR101 SO THAT THE MAXIMUM SEPARATION IS OBTAINED. (MORE THAN 20dB)

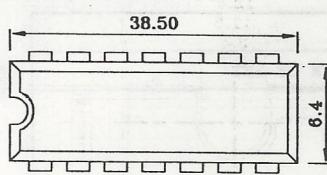
● AM STEREO MAIN PWB



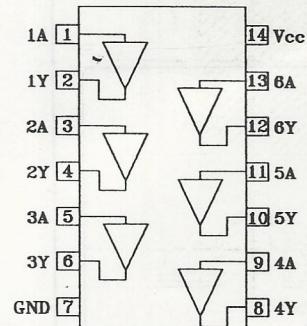
■ EXPLANATION OF IC's:

■ HD74LS07P 051-0160-01

Outward Form

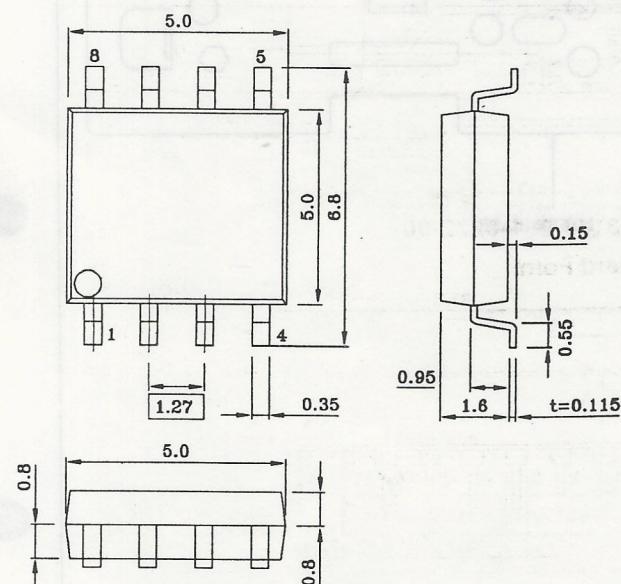


Block Diagram

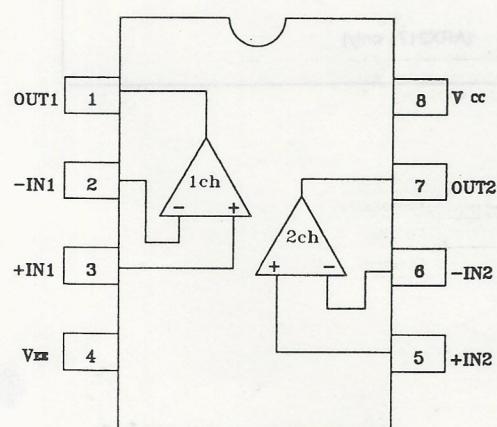


■ NJM4558M 051-0350-55

Outward Form

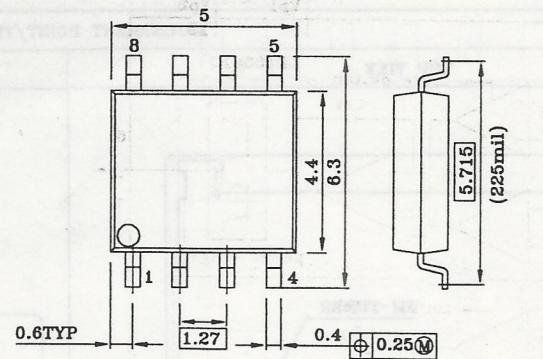


Block Diagram

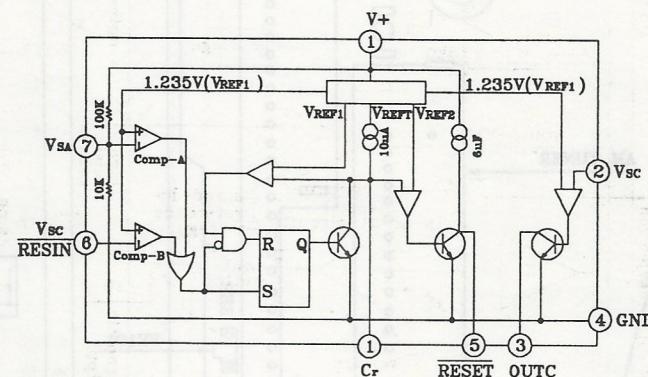


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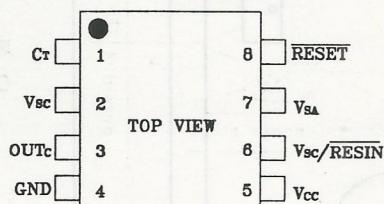
Outward Form



Block Diagram

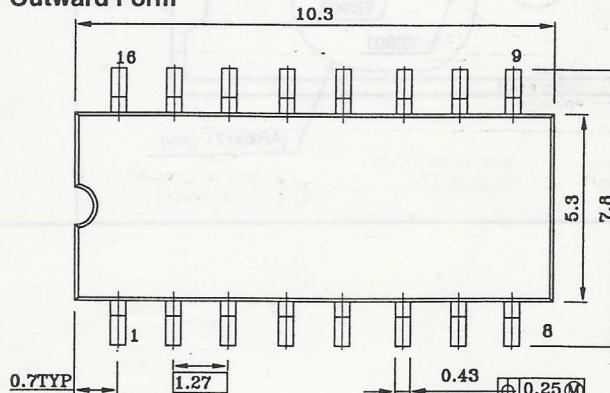


Terminal Connection

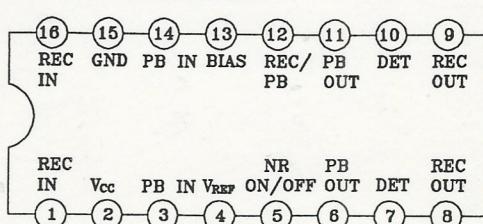


■ HA12134AF 051-1349-10

Outward Form

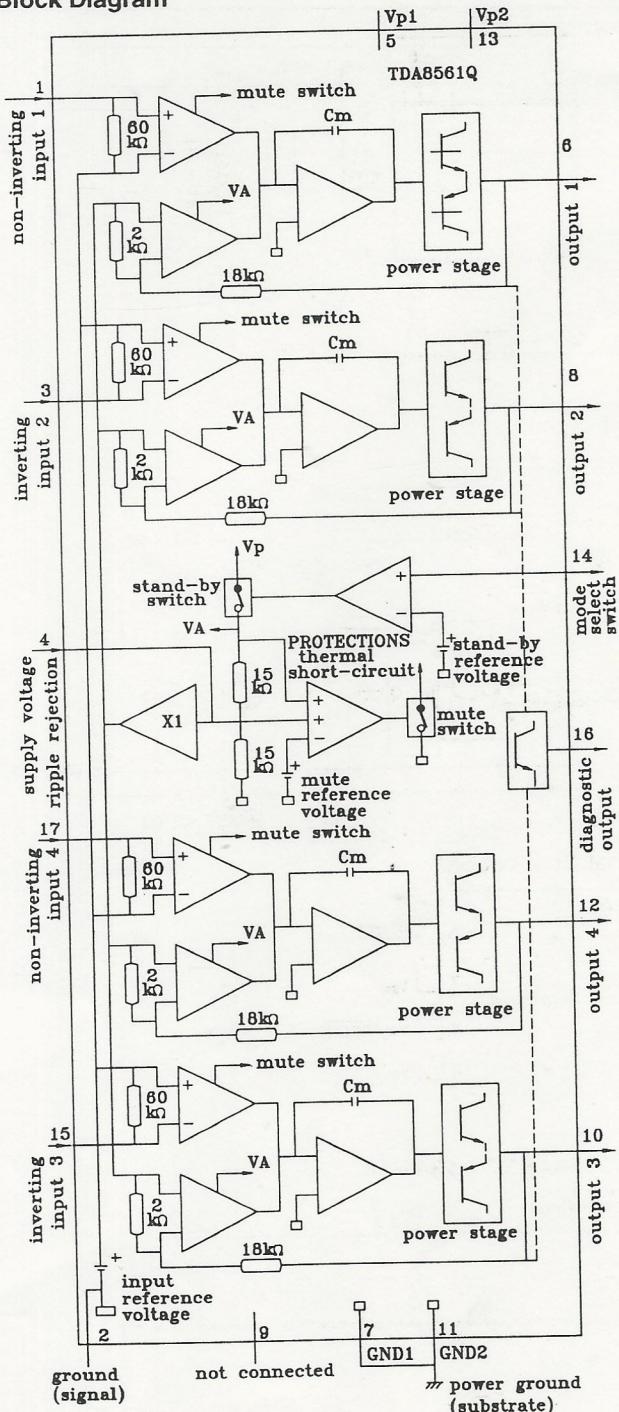


Terminal Connection

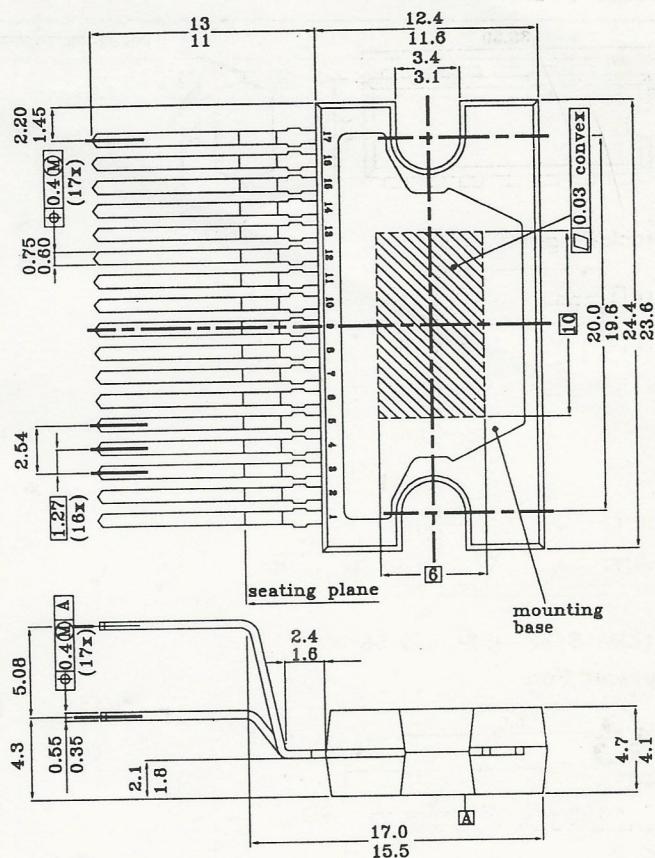


■ TDA8561Q 051-2009-00

Block Diagram

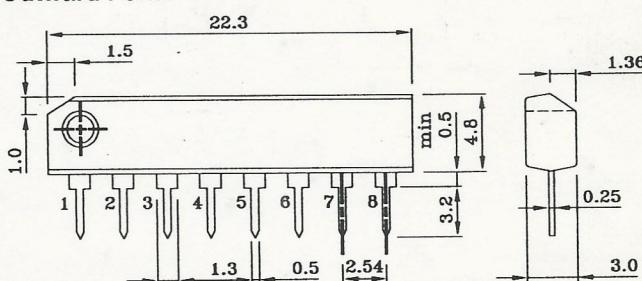


Outward Form

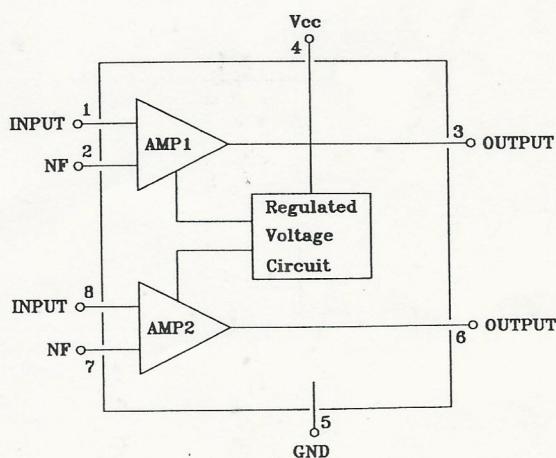


■ LA3161 051-0272-00

Outward Form

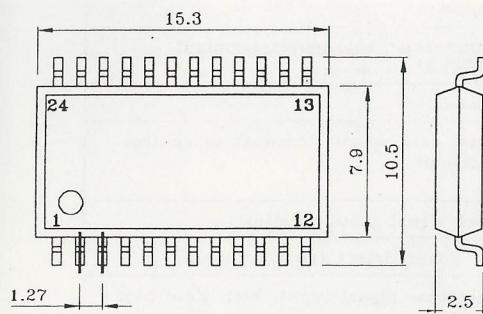


Block Diagram

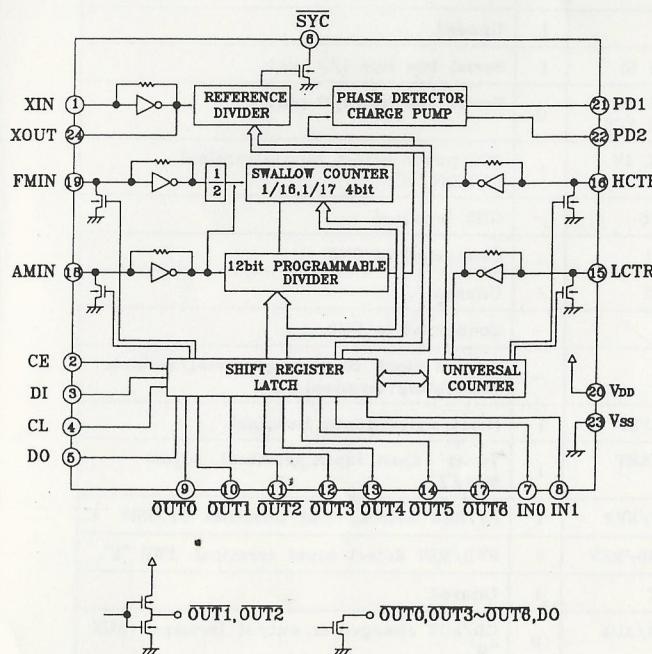


■ LC7219M 051-1717-05

Outward Form

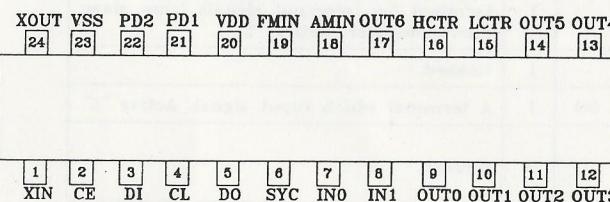


Block Diagram



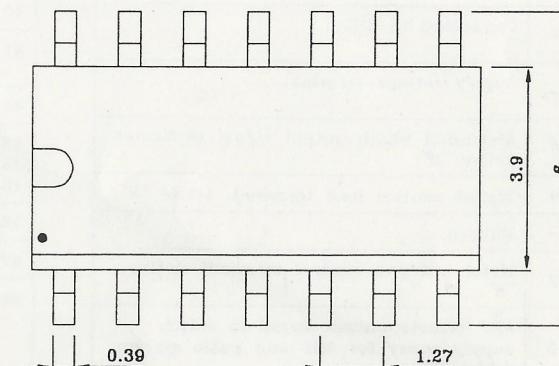
Symbol	Function
XIN,XOUT	X'tal OSC(7.2MHz)
FMIN,AMIN	Local oscillation data input
CE, CL, DI, DO	Serial data I/O port
OUT0 OUT6	Output terminal
IN0,IN1	Input terminal
HCTR,LCTR	Counter input
PD1,PD2	Charge pump output
SYC	For controller clock (400kHz)

Terminal Connection

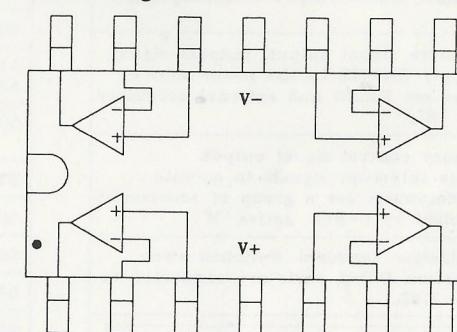


■ NJM2058M 051-0556-91

Outward Form

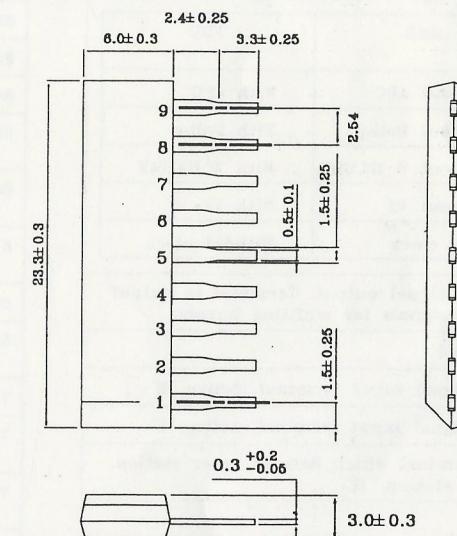


Block Diagram

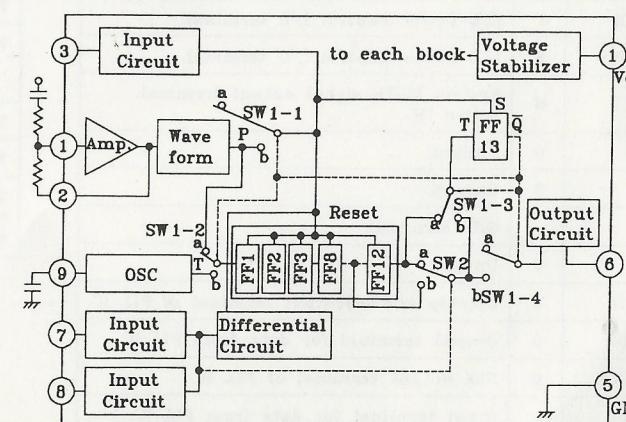


■ AN6263N 051-0561-01

Outward Form

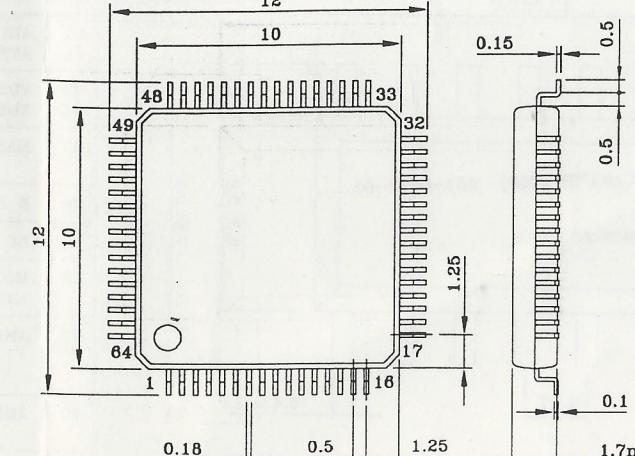


Block Diagram



■ LC75853NW 051-6000-20

Outward Form



Key Matrix Table

IN OUT	KI1	KI2	KI3	KI4	KI5
KS1	M1	M2	M3	M4 B NR	M5 APC
KS2	M6 MTL	BAND	A-MODE/ LOUD	V-UP	V-DOWN
KS3	PS/AS	MUTE	A-MODE/ DX/LO	UP	DOWN
KS4	DISPLAY	VF	ILL	R-MONI	LOUD

Momentary Sw.

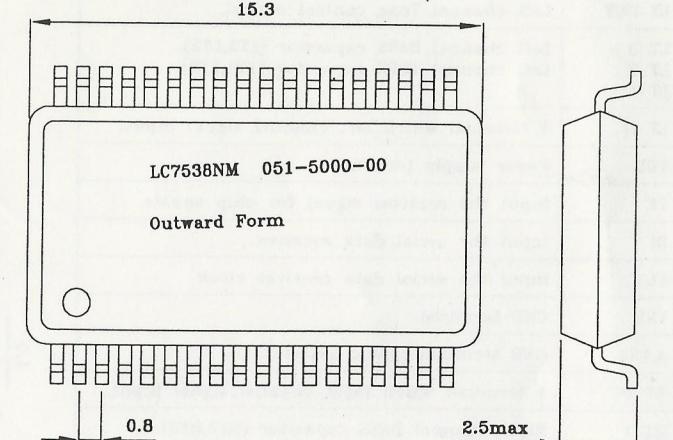
Switch Name	Function
M1 l M6	Preset memory wire/call switch.
PS/AS	Use PS/AS when making a preset scan or an auto store. Either of the two can be selected by the way it is pushed as follows. Continus to push the key more than 2 seconds for "auto store memry." Push and touch off the key less then 2 seconds for "preset scan."
BAND	AM/FM/LM band selector switch. when B0,B1=0.BAND Key andup Key pressed Canbe change to "USA" BAND Key and DOWN Key pressed Canbe change to "australia Middle East" BAND.
UP DOWN	This switch is for manual tuning or SEEK tuning. UP/DOWN
T.MODE	SEEK or MANU selector switch
DISP	Display mode selector button. clock or frquncy
DOL-B (M4)	Dolby-B ON/OFF selector switch.
APC (M5)	APC ON/OFF selector switch
MTL (M6)	MTL ON/OFF selector switch
ILLUMI	ILLUMI color selector switch.
A-M/LOUD	Audio mode selector Volume → Bass → Treble → Balance → Fader over 2 seconds, LOUNDESS ON.OFF selector
UP Button	Audio control UP Button.
DOWN Button	Audio control DOWN Button.
MUTE	Audio mute ON OFF key
VF	Europe FM Band VF ON OFF key.
Release Button	Detachable control panel release Button.

Terminal Description

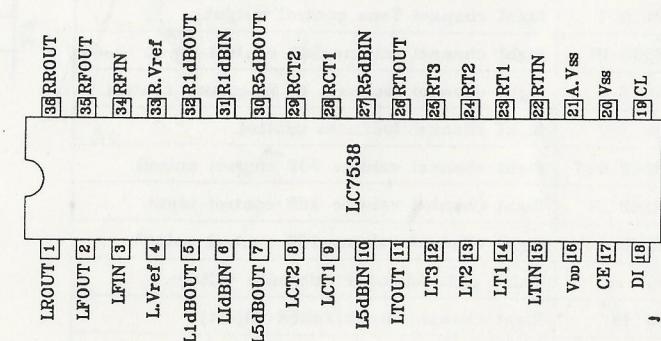
Pin No.	Symbol	Function
01	S1	A terminal which segment signal outputs for LCD panel.
2	S40	
41	COM3	A terminal which common signal outputs for LCD panel.
42	COM2	
43	COM1	
44	KS1(S41)	A terminal which key source signal outputs for key matrix.
45	KS2(S42)	
46	KS3	
7	KS6	
50	KI1	A terminal which key return signal inputs for key matrix.
2	KI5	
55	RES	A terminal which resets the IC. "L" Reset.
56	VDD	Power supply terminal (+5.5V).
57	VDD 1	A terminal which LCD segment reference Voltage.
58	VDD 2	A terminal which LCD segment reference Voltage.
59	Vss	GND terminal.
60	OSC	Oscillate system clock,38KHz (19~76KHz).
61	DO	A terminal which outputs the serial data transfer.
62	CE	A terminal which inputs the receives signal for chip enable.
63	CL	A terminal which inputs the serial data receives clock.
64	DI	A terminal which inputs the serial data receives.

■ LC7538NM 051-5000-00

Outward Form



Terminal Connection



■ PART LIST:

• ARX3171 (PE-9950K-B)

MAIN P.W.B.:

Ref. No.	Order No.	Description	Q'ty
IC401	051-0272-00	IC LA3161	1
IC503,504	051-2009-00	IC TDA8561Q	2
IC502	051-0556-91	IC NJM2058M	1
IC201	052-3308-10	IC uPD75518GF-589-3B9	1
IC601	051-0410-05	IC TC4052BF	1
IC501	051-5000-00	IC LC7538NM	1
IC202	051-0160-01	IC HD74LS07P	1
IC402	051-0561-01	IC AN6263N	1
IC204	051-0869-55	IC NJM2103M	1
IC801	051-1717-05	IC LC7219M	1
IC602	051-1349-10	IC HA12134AF	1
VR101	012-9001-06	Semi Fixed VR TB069A-OC 5KΩ	1
VR401,402	012-9000-18	Semi Fixed VR TB067A-OC 10KΩ	2
L501	009-9004-00	CHOKE El=24mm	1
L201	010-9000-52	COIL 221K	1
L101	010-9005-00	COIL 30μH	1
CN101	074-1058-00	Connector CAM-A45(D41-A341)	1
CN102	076-9000-03	Connector 53014-0310 Molex	1
CN103	076-9000-04	Connector 53014-0410 Molex	1
X801	061-9002-00	X-TAL OSC 7.2MHz 20PPM	1
X201	060-1900-00	Ceramic Resonator CAS419MG 4.19MHZ	1
SW201	013-3932-01	TACT SW (RESET) SKHHLML1510-CR1	1
SUP101	060-0122-10	Diode DSP-201N-S00B	1
D205,503	001-0346-33	Zener Diode MTZ 5.6 JC	2
D204,208	001-0346-48	Zener Diode MTZ 9.1 JC	2
D501	001-0346-23	Zener Diode MTZ 4.3 JB	1
D504	001-0188-01	Diode 1S1885A	1
D209	001-0466-91	Diode S5688G	1
D101,102,103,104 201,202,203,206 207,502,505,801	001-0352-90	Diode 1SS176	12
Q503,801,802	190-1048-00	Transistor 2SA1048	3
Q102,103	192-2458-28	Transistor 2SC2458-GR	2
Q201,202,209,210 406	193-1858-00	Transistor 2SD1858 (TV3)	5
Q208,401~403	192-2458-00	Transistor 2SC2458	4
Q207	191-1243-00	Transistor 2SB1243 (TV3)	1
Q203,205,405,504	125-2003-93	Transistor RN1203	4
Q204	191-1237-00	Transistor 2SB1237	1
Q404	191-1240-00	Transistor 2SB1240	1
Q501,502	193-1450-00	Transistor 2SD1450 RST	2
Q206	102-1846-50	Transistor 2SC1846 R.S	1
R227	111-1001-98	Carbon Film-R 1/4WSS 10Ω JP	1
R220~226,229,241 421	111-1021-98	Carbon Film-R 1/4WSS 1KΩ JP	10
203~205,216,230 242,245,253,257 801,802,808,111	111-1031-98	Carbon Film-R 1/4WSS 10KΩ JP	13
R412,415	111-2721-98	Carbon Film-R 1/4WSS 2.7KΩ JP	2
R225	111-2731-98	Carbon Film-R 1/4WSS 27KΩ JP	1
R502	111-3311-98	Carbon Film-R 1/4WSS 330Ω JP	1
R243	111-4711-88	Carbon Film-R 1/2WS 4700Ω JP	1

MAIN P.W.B.:

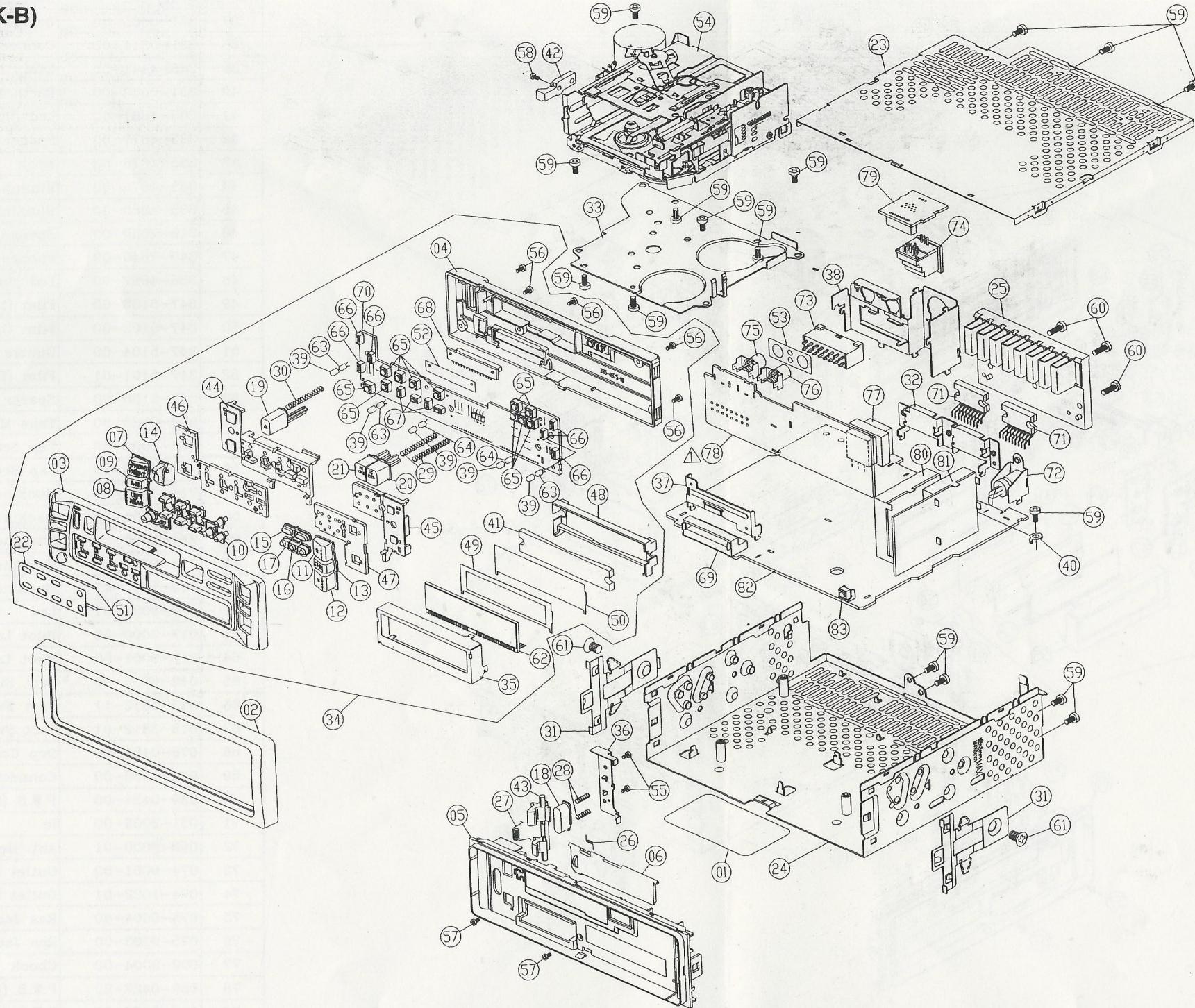
Ref. No.	Order No.	Description	Q'ty
C411,524,608	182-1063-33	SS Electrolytic-C 16V 10μF M RB	3
C108,208,501,801	182-1073-23	SS Electrolytic-C 10V 100μF M RB	4
C102,212,405,406	184-1073-23	Electrolytic-C 10V 100μF M SSA	4
C202,207	184-2273-22	Electrolytic-C 10V 220μF M RB	2
C214	184-4763-23	Electrolytic-C 10V 47μF M RB	1
C523	042-0447-00	Electrolytic-C 16V 2200μF M (13*20*5)	1
C806	176-2201-50	Ceramic-Chip-R 50V 22PF J CH TA	1
C401,402	160-6812-75	Ceramic-C 50V 880PF K B TS	2
C522	173-1042-19	Plyester-C 50V 0.1μF K TA	1
C407,408	173-2732-19	Plyester-C 50V 0.027μF K TA	2
C113	178-1032-55	Ceramic-Chip-C 50V 0.01μF Y5P TA	1
C506,511,606,607	182-2243-63	SS Electrolytic-C 50V 0.22μF M RB	4
C213,610,504,509 602,6046,609	182-2253-63	SS Electrolytic-C 50V 2.2μF M RB	7
C112	181-3353-62	Electrolytic-C 50V 3.3μF M RB(LN)	1

SW P.W.B.:

Ref. No.	Order No.	Description	Q'ty
IC101	051-6000-20	IC LC75853NW	1
S104,105,109,110 114,115	013-3812-11	TACT SW SKQCAC 280G TA	6
101,108,111~113 116~121	013-6002-50	TACT SW SKHVBC3430-CR TA	11
S102,103,106,107	013-3812-01	TACT SW SKHLAJ ALPS	4
PL101~103	017-9000-00	Pilot Lamp 14V 40mA D3*6.5mm	3
PL104,105	017-9001-00	Pilot Lamp 8V 68mA 0.13 CP D3*6	2
CN101	076-0481-00	Connector CAM-A44D41-A340	1
R101~104	111-2221-98	Carbon Film-R 1/4WSS 2.2KΩ J TA	4
R106	117-1031-15	Chip-R 1/10W 10KΩ J TA	1
R105	117-6831-15	Chip-R 1/10W 68KΩ J TA	1
C101	178-1822-55	Chip-C 50V 1800PF K TA	1
C102~104	178-4735-56	Chip-C 25V 0.047μF Y5V SSA	3

■ EXPLODED VIEW • PARTS LIST:

• ARX3171 (PE-9950K-B)



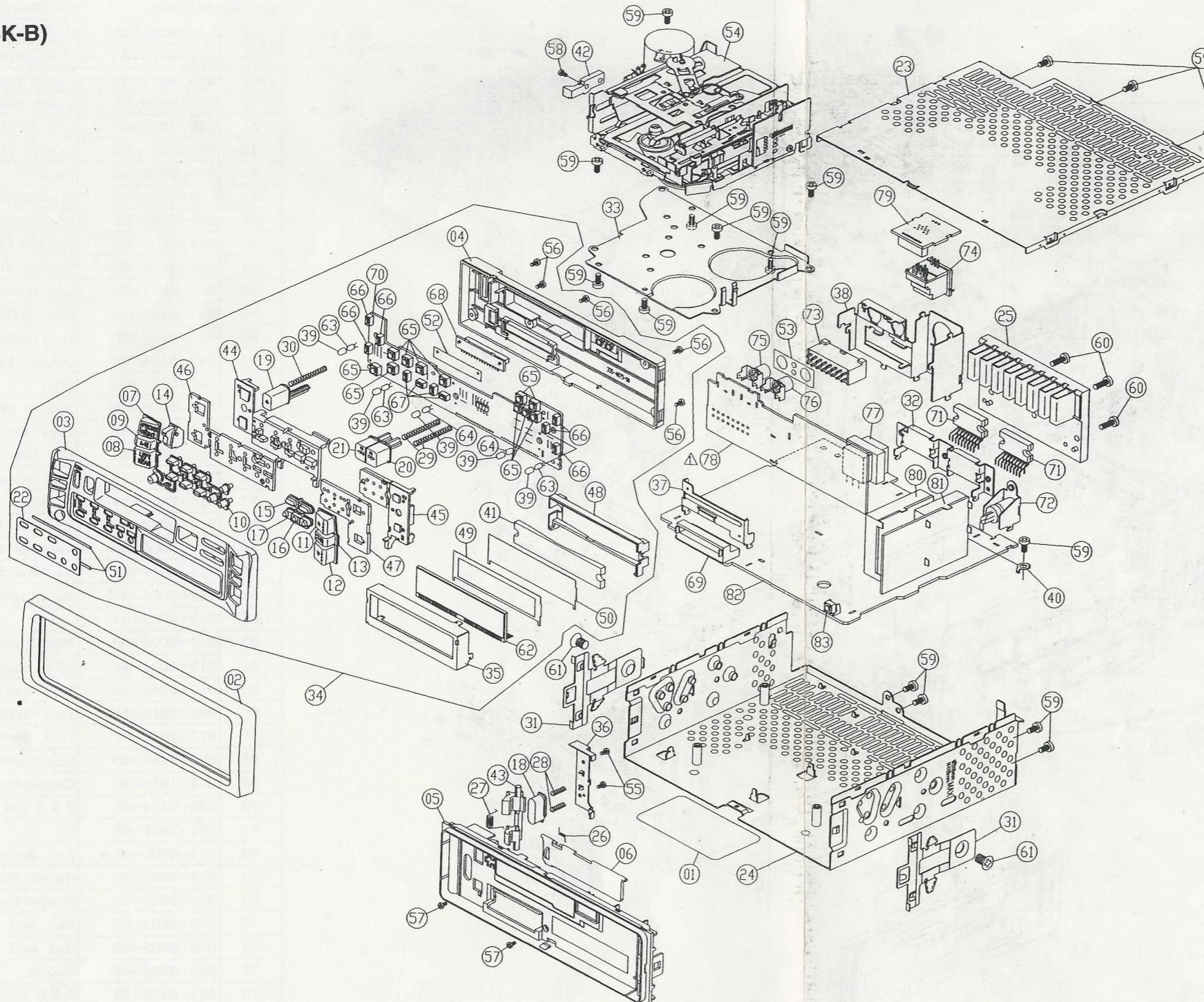
Ref. No.	Order No.	Description	Q'ty
01	286-8275-00	Set Plate	1
02	370-5516-00	Outer Escutcheon	1
03	370-9015-02	Escutcheon	1
04	335-4875-00	Rear Cover	1
05	370-9016-00	Inner Escutcheon	1
06	320-0526-09	Dustproof Cover	1
07	382-3797-00	Button	1
08	382-3795-00	Button	1
09	382-3796-00	Button	1
10	382-7696-00	Button (ASS'Y)	1
11	382-3789-00	Button	1
12	382-3791-00	Button	1

Ref. No.	Order No.	Description	Q'ty
13	382-3790-00	Button	1
14	382-3798-00	Button	1
15	382-3793-00	Button	1
16	382-7701-00	Button	1
17	382-7702-00	Button	1
18	382-7681-00	Button (EJE-OUT)	1
19	382-7697-00	Button	1
20	382-7699-00	Button	1
21	382-7700-00	Button	1
22	378-0131-00	Badge	1
23	310-1571-00	Upper Case	1
24	311-1640-12	Lower Case	1

Ref. No.	Order No.	Description	Q'ty
25	313-1616-00	Heat Sink	1
26	750-3169-00	Spring (DOOR)	1
27	750-3170-00	Spring (HOOK)	1
28	750-3167-00	Spring (DCP OUT)	2
29	750-3138-00	Spring (FF/REW)	2
30	750-3171-00	Spring (EJE)	1
31	750-3137-00	Spring	2
32	331-0613-00	Ic Bracket	1
33	331-0604-00	Mecha. Bracket (TOM-2)	1
34	45-9950-CA	Dcp ASS'Y	1
35	331-0608-00	Lcd Holder (F)	1
36	331-0615-00	Hook Holder	1

Ref. No.	Order No.	Description	Q'ty
37	331-0605-00	Dcp Connector Holder	1
38	331-0611-00	Connector Holder (SMK)	1
39	345-4441-55	Lamp Holder	5
40	331-0643-00	Earth Plate	1
41	335-4881-00	Lcd Illumination Plate	1
42	335-4877-00	Spacer (EJE)	1
43	335-4876-00	Hook	1
44	335-4879-00	Illumination (L)	1
45	335-4880-00	Illumination (R)	1
46	345-7639-00	Sponge (L)	1
47	345-7640-00	Sponge (R)	1
48	335-4887-00	Lcd Holder	1
49	347-5103-00	Film (LCD BLACK)	1
50	347-5102-00	Film (LCD)	1
51	347-5104-00	Double Face	2
52	347-5101-01	Film	1
53	347-5100-00	Spacer (RCA)	1
54	930-0725-81	Tape Mechanism	1
55	702-2005-80	Tap Screw	2
56	702-2008-19	Tap Screw	5
57	714-2006-89	Machine Screw	2
58	714-2604-80	Machine Screw	1
59	714-3005-80	Machine Screw	16
60	714-3010-80	Machine Screw	3
61	714-5008-40	Machine Screw	2
62	379-9002-01	Lcd	1
63	017-9000-00	Pilot Lamp (14V)	3
64	017-9001-00	Pilot Lamp (8V)	2
65	013-6002-50	Tact Swith	11
66	013-3812-11	Tact Swith	6
67	013-3812-01	Tact Swith	4
68	076-0481-00	Dcp Connector (M)	1
69	074-1058-00	Connector	1
70	039-0424-00	P.W.B (SW-3335)	1/4
71	051-2009-00	IC	2
72	092-9000-01	Ant. Recert	1
73	074-9001-00	Outlet Socket (16P)	1
74	074-1022-01	Connector (13 PIN)	1
75	075-9004-00	Rca Jack (R)	1
76	075-9003-00	Rca Jack (L)	1
77	009-9004-00	Chock	1
78	039-0422-20	P.W.B (ISO HI)	1/2
79	039-0428-00	P.W.B (C-BUS)	1/20
80	80-1516-AI	Tuner ASS'Y (AM)	1
81	80-1752-BI	Tuner ASS'Y (FM)	1
82	53-9950-BQ	Main P.W.B	1
83	013-3932-01	Tact Swith (RESET)	1

• ARX3170 (PE-9954K-B)



Ref. No.	Order No.	Description	Q'ty
01	286-8281-00	Set Plate	1
02	370-5516-00	Outer Escutcheon	1
03	370-9015-07	Escutcheon (F)	1
04	335-4875-00	Rear Cover	1
05	370-9016-00	Inner Escutcheon	1
06	320-0526-03	Dustproof Cover	1
07	382-3797-00	Button	1
08	382-3795-00	Button	1
09	382-3796-00	Button	1
10	382-7696-00	Button (ASS'Y)	1
11	382-3789-00	Button	1
12	382-3791-00	Button	1

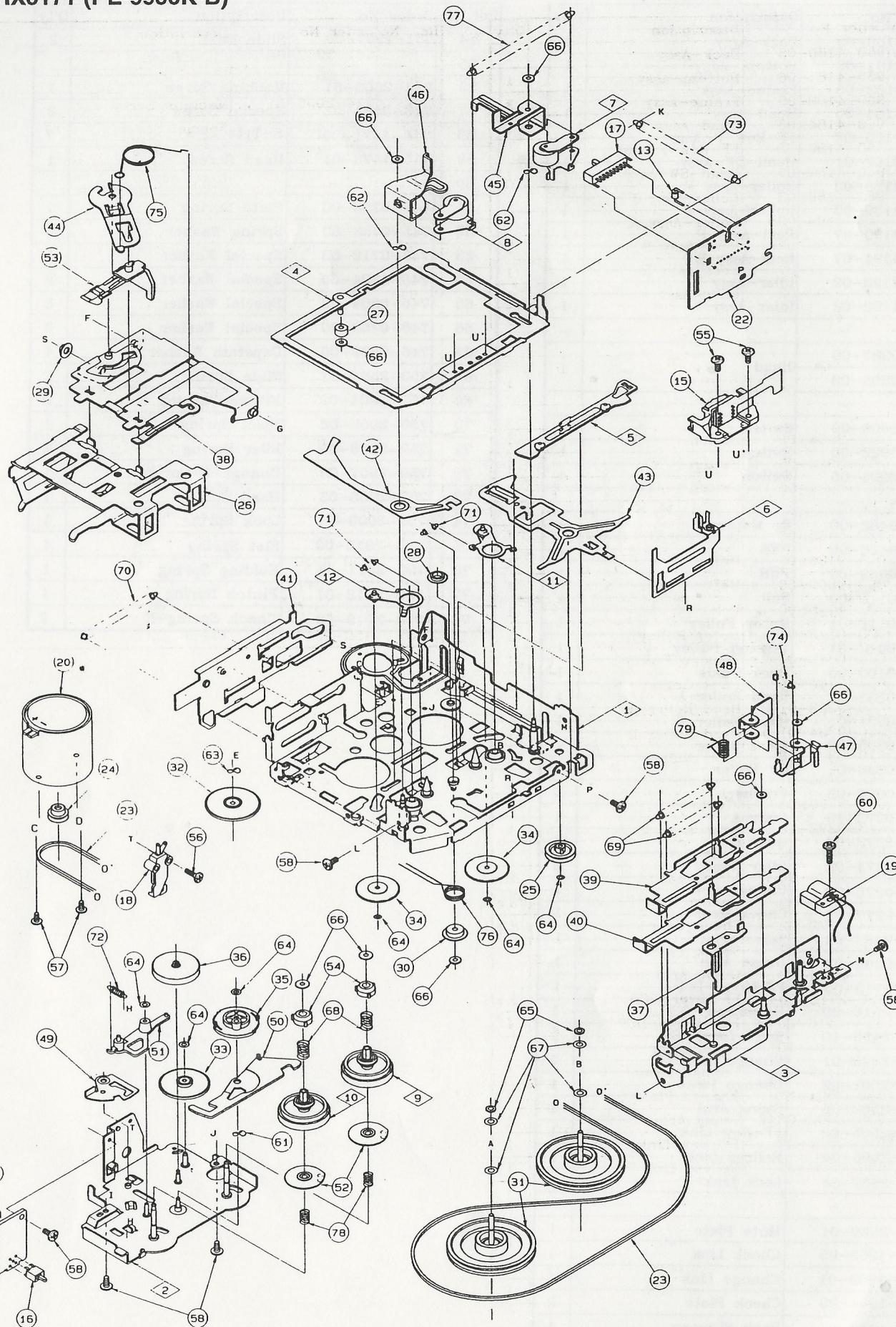
Ref. No.	Order No.	Description	Q'ty
13	382-3790-00	Button	1
14	382-3798-00	Button	1
15	382-3793-00	Button	1
16	382-7701-00	Button	1
17	382-7702-00	Button	1
18	382-7681-00	Button (EJE OUT)	1
19	382-7697-00	Button	1
20	382-7699-00	Button	1
21	382-7700-00	Button	1
22	378-0131-00	Badge	1
23	310-1571-00	Upper Case	1
24	311-1640-02	Lower Case	1

Ref. No.	Order No.	Description	Q'ty
25	313-1616-00	Heat Sink	1
26	750-3169-02	Spring(DOOR)	1
27	750-3170-00	Spring(HOOK)	1
28	750-3167-00	Spring(DCP OUT)	2
29	750-3138-00	Spring(FF/REW)	2
30	750-3171-00	Spring(EJE)	1
31	750-3137-00	Spring	2
32	331-0613-00	Ic Bracket	1
33	331-0604-00	Mecha. Bracket	1
34	45-9954-CA	Dcp ASS'Y	1
35	331-0608-00	Lcd Holder	1
36	331-0615-00	Hook Holder	1

Ref. No.	Order No.	Description	Q'ty
37	331-0605-00	Dcp Lon. Holder	1
38	331-0611-00	Connector Holder (SMK)	1
39	345-4441-55	Lamp Holder	5
40	331-0643-00	Earth Plate	1
41	335-4881-00	Lcd Illumination Plate	1
42	335-4877-00	Spacer (EJE)	1
43	335-4876-00	Hook	1
44	335-4879-00	Illumination Plate (L)	1
45	335-4880-00	Illumination Plate (R)	1
46	345-7639-00	Sponge (L)	1
47	345-7640-00	Sponge (R)	1
48	335-4887-00	Lcd Holder	1
49	347-5103-00	Film (LCD BLACK)	1
50	347-5102-00	Film (LCD)	1
51	347-5104-00	Double Face	2
52	347-5101-01	Film (DCP CONN.)	1
53	347-5100-00	Spacer (RCA)	1
54	930-0723-80	Tape Mechanism	1
55	702-2005-80	Tap Screw	2
56	702-2008-19	Tap Screw	5
57	714-2006-89	Machine Screw	2
58	714-2604-80	Machine Screw	1
59	714-3005-80	Machine Screw	16
60	714-3010-80	Machine Screw	3
61	714-5008-40	Machine Screw	2
62	379-9002-01	Lcd	1
63	017-9000-00	Pilot Lamp (14V)	3
64	017-9001-00	Pilot Lamp (8V)	2
65	013-6002-50	Tact Swith	11
66	013-3812-11	Tact Swith	6
67	013-3812-01	Tact Swith	4
68	076-0481-00	Dcp Connector (M)	1
69	074-1058-00	Connector (DCP 15S)	1
70	039-0424-00	P.W.B (SW-3335)	1
71	051-2009-00	Ic	2
72	092-9000-01	Ant. Recert	1
73	074-9001-00	Outlet Socket (16p)	1
74	074-1022-01	Outlet Socket (13P)	1
75	075-9004-00	Rca Jack (R)	1
76	075-9003-00	Rca Jack (L)	1
77	009-9004-00	Chock	1
78	039-0422-20	P.W.B (ISO HI)	1
79	039-0428-00	P.W.B (13P)	1
80	80-1516-AI	Tuner (AM)	1
81	80-1752-BI	Tuner (FM)	1
82	53-9954-BQ	Main P.W.B	1
83	013-3932-01	Tact Swith (RESET)	1

■ EXPLODED VIEW • PARTS LIST:

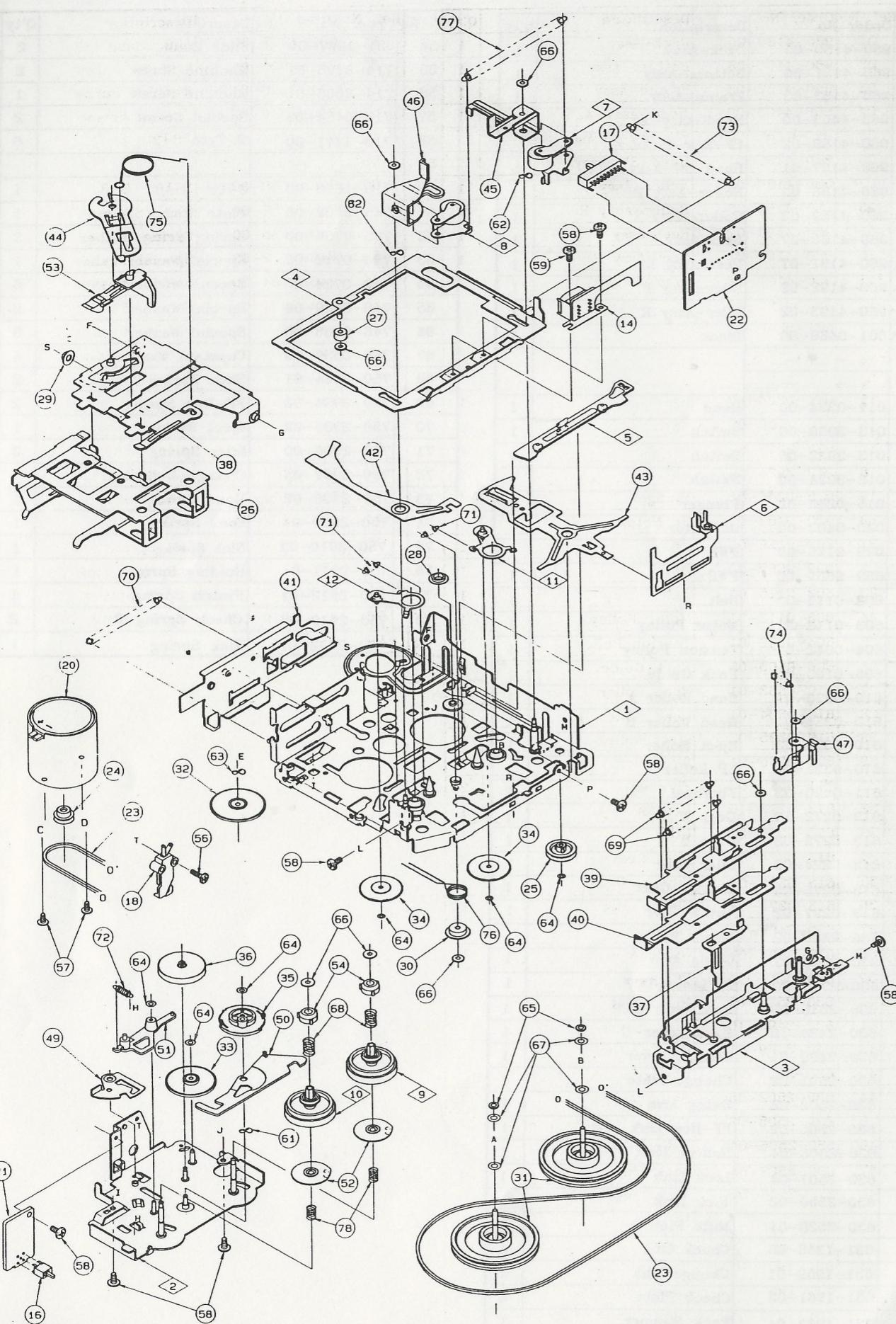
• ARX3171 (PE-9950K-B)



Ref. No	Order No.	Description	Q'ty
01	960-4180-05	Deck-Assy	1
02	960-4181-06	Bottom-Assy	1
03	960-4182-03	Frame-Assy	1
04	960-4403-00	Head-Assy-Az	1
05	960-4186-02	FF-Rew-P-Assy	
06	960-4187-01	Head-SW-Assy	1
07	960-4188-03	Roller-Assy F	1
08	960-4189-03	Roller-Assy R	1
09	960-4190-07	Reel-Assy F	1
10	960-4191-07	Reel-Assy R	1
11	960-4192-02	Idler-Assy F	1
12	960-4193-02	Idler-Assy R	1
13	001-0466-90	Diode	1
14	—		
	—		
15	011-0324-00	Head	1
16	013-3906-00	Switch	1
17	013-3922-00	Switch	1
18	013-3924-00	Switch	1
19	015-0246-02	Plunger	1
20	020-0402-00	Dc Motor	
21	099-9126-00	PWB	1
22	099-9669-00	PWB	1
23	602-0115-00	Belt	1
24	603-0112-01	Motor Pulley	1
25	604-0042-01	Tension Pulley	1
26	606-0100-05	Pack Guide	1
27	610-0333-01	Head Roller A	1
28	610-0334-01	Head Roller B	1
29	610-0335-02	Eject Roller	1
30	610-0336-01	SP Roller	1
31	611-0090-03	Flywheel	2
32	613-0272-10	Gear A	1
33	613-0273-02	Gear B	1
34	613-0274-02	Idler Gear	2
35	613-0275-03	Change Gear	1
36	613-0277-02	Check Gear	1
37	630-2488-02	Select Plate	1
38	630-2494-07	Guide Arm	1
39	630-2715-00	FF Lever-DCP	1
40	630-2516-00	Rew Lever-DCP	1
41	630-2498-10	Eject Lever-C	1
42	630-2499-01	Change Lever	1
43	630-2501-02	Change Plate	1
44	630-2502-05	Swing Arm	1
45	630-2505-02	FF-Rew Link	1
46	630-2506-04	Reliese Link	1
47	630-2507-04	Lock Link	1
48	630-2509-02	Kick Link	
49	630-2529-01	Mute Plate	1
50	631-1958-05	Check Link	1
51	631-1959-01	Change Link	1
52	631-1961-03	Check Plate	2
53	631-1963-04	Pack Stopper	1

Ref. No	Order No.	Description	Q'ty
54	631-1967-00	Slide Bush	2
55	714-2005-81	Machine Screw	2
56	714-2008-81	Machine Screw	1
57	716-0484-02	Special Screw	2
58	716-1471-00	S-Tyte 2-3	6
59	—	—	
60	716-1608-00	S-tyte 2-8	1
61	745-0752-00	Plate Spring	1
62	745-0756-00	Spring Washer	2
63	746-0712-03	Special Washer	1
64	746-0724-00	Special Washer	6
65	746-0869-00	Special Washer	2
66	746-0768-00	Special Washer	8
67	746-0839-00	Capstain Washer	4
68	750-2564-01	Slide Spring	2
69	750-2904-02	FF-Rew Spring	2
70	750-2905-02	Eject Spring	1
71	750-2906-00	Idler Spring	2
72	750-2907-03	Change-L-Spring	1
73	750-2908-02	Head Spring	1
74	750-2909-04	Lock Spring	1
75	750-2910-03	Slot Spring	1
76	750-2911-01	Holding Spring	1
77	750-2912-01	Pintch Spring	1
78	750-2919-03	Check Spring-R	2
79	750-2913-01	Kick Spring	1

• ARX3170 (PE-9954K-B)

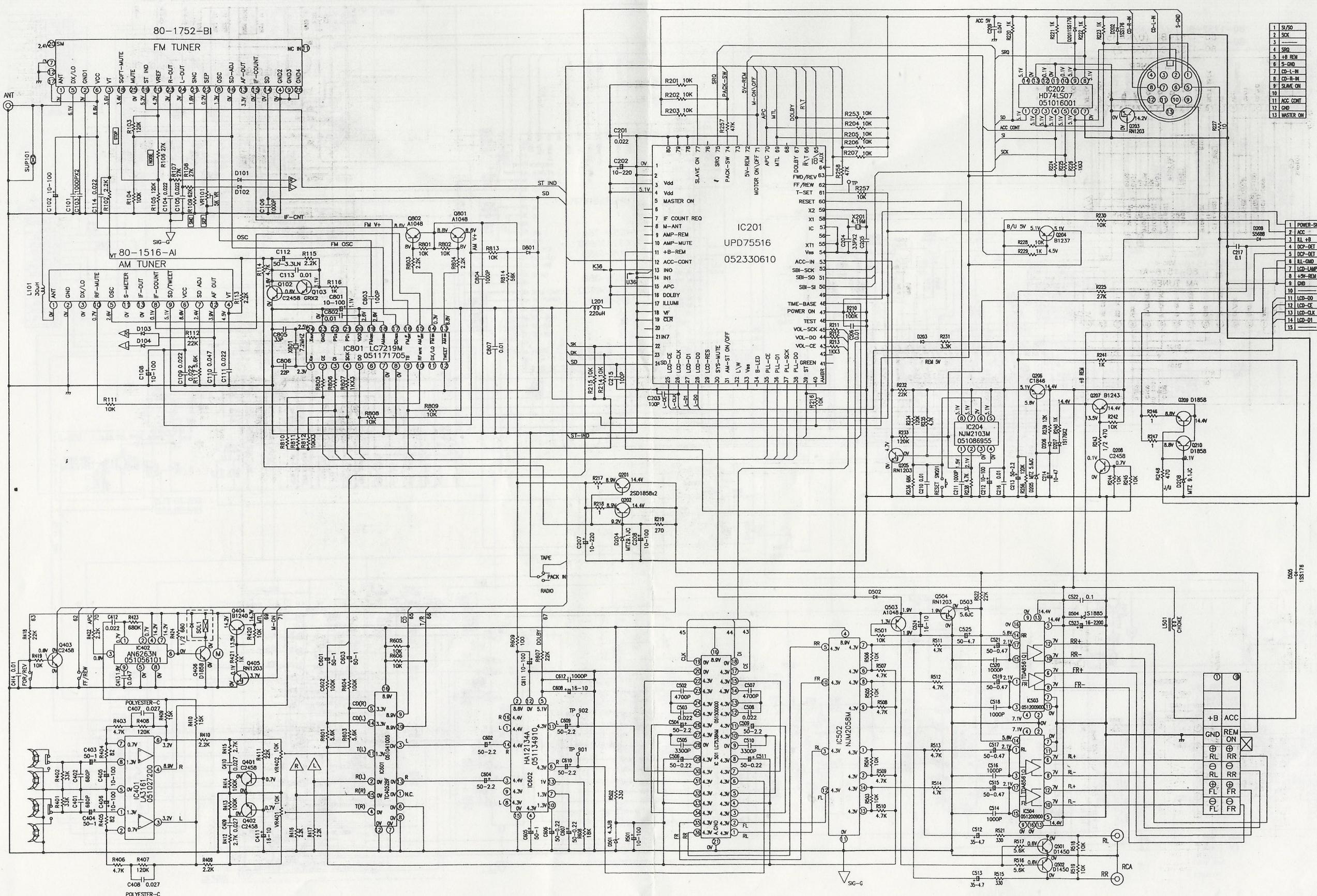


Ref. No	Order No.	Description	Q'ty
01	960-4180-05	Deck-Assy	1
02	960-4181-06	Bottom-Assy	1
03	960-4182-03	Frame-Assy	1
04	960-4184-03	Head-Assy	1
05	960-4186-02	FF-Rew-P-Assy	
06	960-4187-01	Head-SW-Assy	1
07	960-4188-03	Roller-Assy F	1
08	960-4189-03	Roller-Assy R	1
09	960-4190-07	Reel-Assy F	1
10	960-4191-07	Reel-Assy R	1
11	960-4192-02	Idler-Assy F	1
12	960-4193-02	Idler-Assy R	1
13	—	—	
14	011-0320-00 011-0305-03	Head	1
15	—	—	
16	013-3906-00	Switch	1
17	013-3922-00	Switch	1
18	013-3924-00	Switch	1
19	—	—	
20	020-0402-00	Dc Motor	1
21	099-9126-00	PWB	1
22	099-9669-00	PWB	1
23	602-0115-00	Belt	1
24	603-0112-01	Motor Pulley	1
25	604-0042-01	Tension Pulley	1
26	606-0100-05	Pack Guide	1
27	610-0333-01	Head Roller A	1
28	610-0334-01	Head Roller B	1
29	610-0335-02	Eject Roller	1
30	610-0336-01	SP Roller	1
31	611-0090-03	Flywheel	2
32	613-0272-10	Gear A	1
33	613-0273-02	Gear B	1
34	613-0274-02	Idler Gear	2
35	613-0275-03	Change Gear	1
36	613-0277-02	Check Gear	1
37	630-2488-02	Select Plate	1
38	630-2494-07	Guide Arm	1
39	630-2715-00	FF Lever-DCP	1
40	630-2516-00	Rew Lever-DCP	1
41	630-2498-10	Eject Lever-C	1
42	630-2499-01	Change Lever	1
43	630-2501-02	Change Plate	1
44	630-2502-05	Swing Arm	1
45	630-2505-02	FF-Rew Link	1
46	630-2506-04	Reliese Link	1
47	630-2507-04	Lock Link	1
48	—	—	
49	630-2529-01	Mute Plate	1
50	631-1958-05	Check Link	1
51	631-1959-01	Change Link	1
52	631-1961-03	Check Plate	2
53	631-1963-04	Pack Stopper	1

Ref. No	Order No.	Description	Q'ty
54	631-1967-00	Slide Bush	2
55	—	—	
56	714-2008-81	Machine Screw	1
57	716-0484-02	Special Screw	2
58	716-1471-00	S-Tye 2-3	7
59	716-1473-01	Head Screw	1
60	—	—	
61	745-0752-00	Plate Spring	1
62	745-0756-00	Spring Washer	2
63	746-0712-03	Special Washer	1
64	746-0724-00	Special Washer	6
65	746-0869-00	Special Washer	2
66	746-0768-00	Special Washer	8
67	746-0839-00	Capstain Washer	4
68	750-2564-01	Slide Spring	2
69	750-2904-02	FF-Rew Spring	2
70	750-2905-02	Eject Spring	1
71	750-2906-00	Idler Spring	2
72	750-2907-03	Change-L-Spring	1
73	750-2908-02	Head Spring	1
74	750-2909-04	Lock Spring	1
75	750-2910-03	Slot Spring	1
76	750-2911-01	Holding Spring	1
77	750-2912-01	Pintch Spring	1
78	750-2919-03	Check Spring-R	2

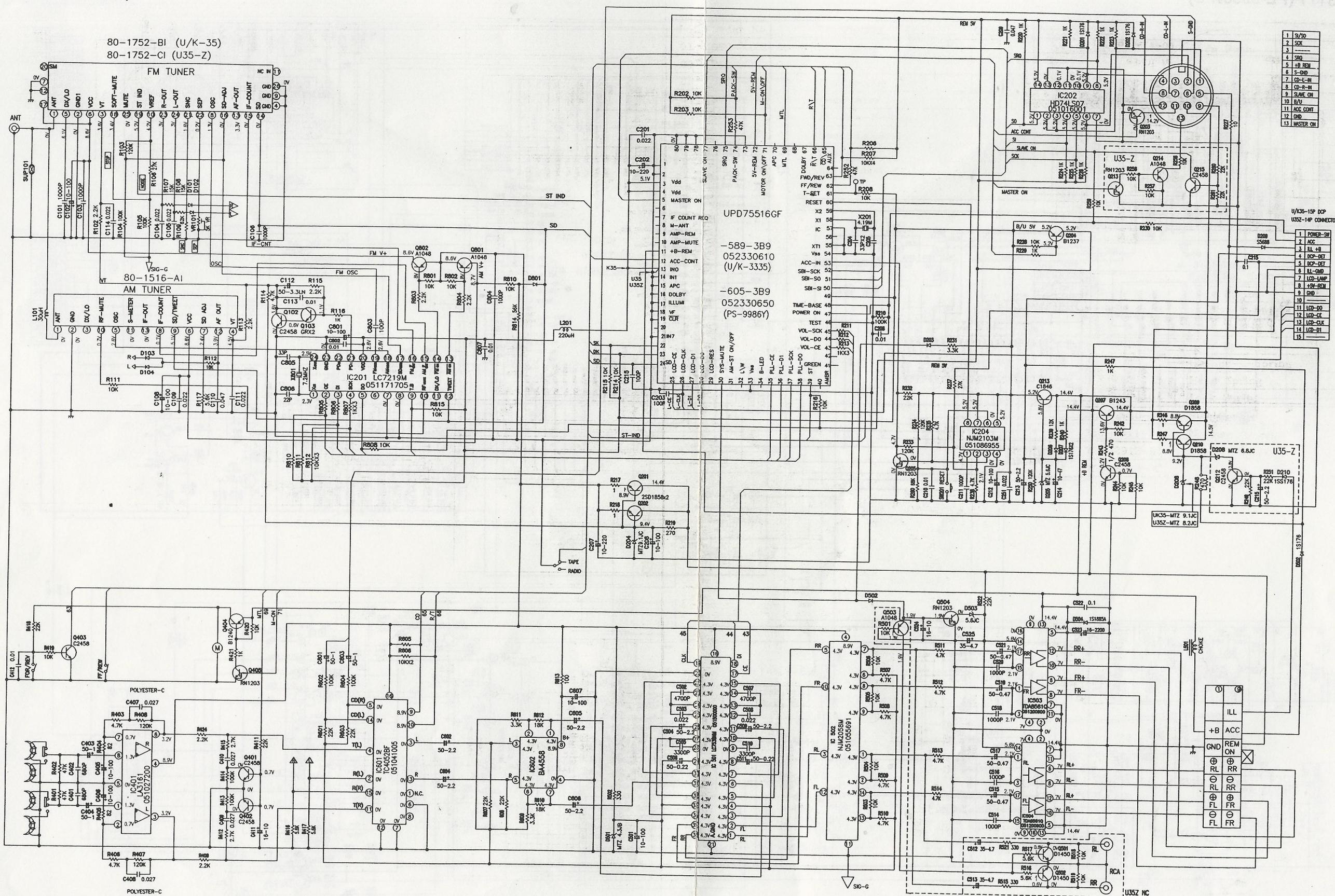
CIRCUIT DIAGRAM:

• ARX3171 (PE-9950K-B)



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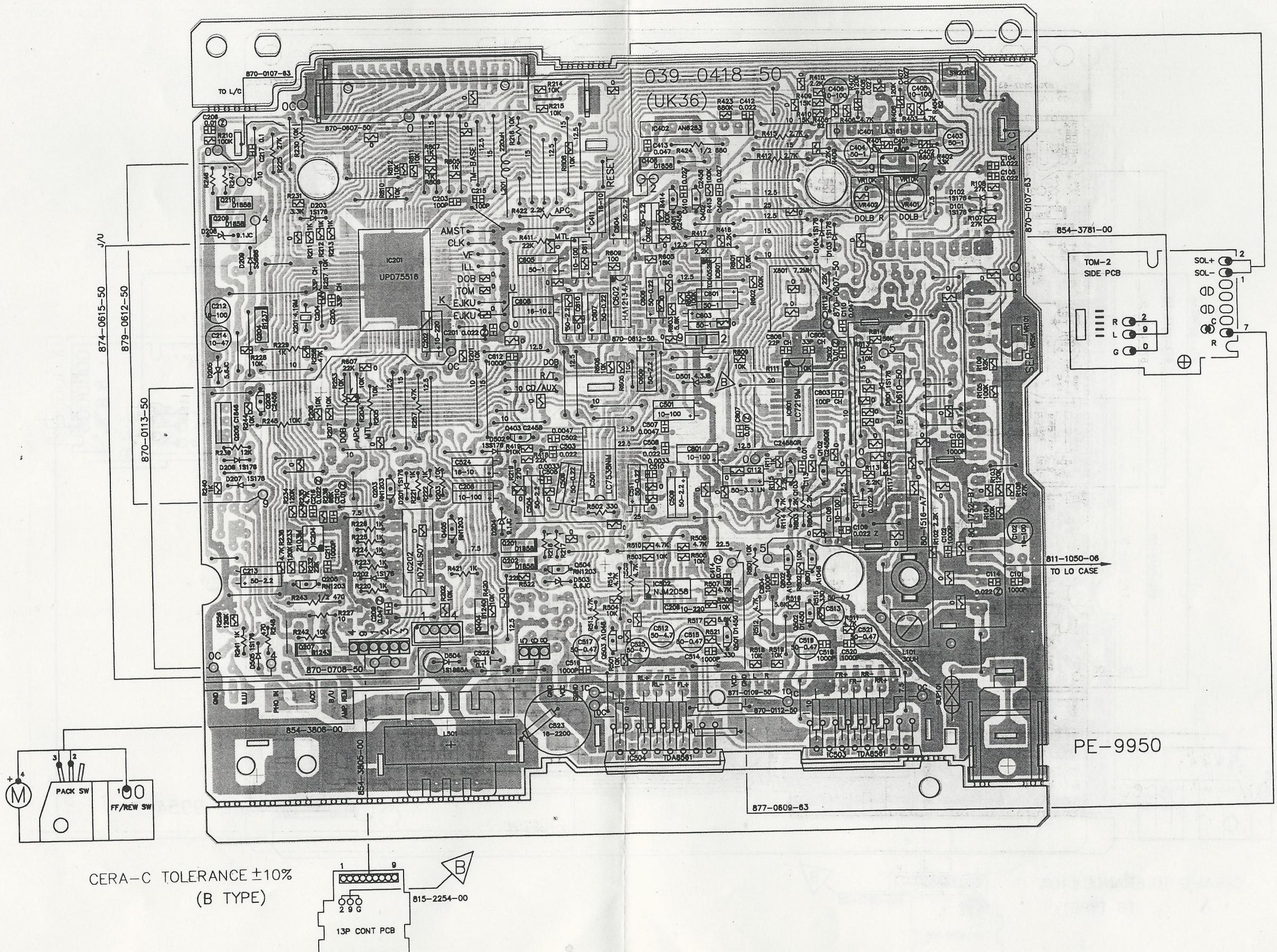
• ARX3170 (PE-9954K-B)



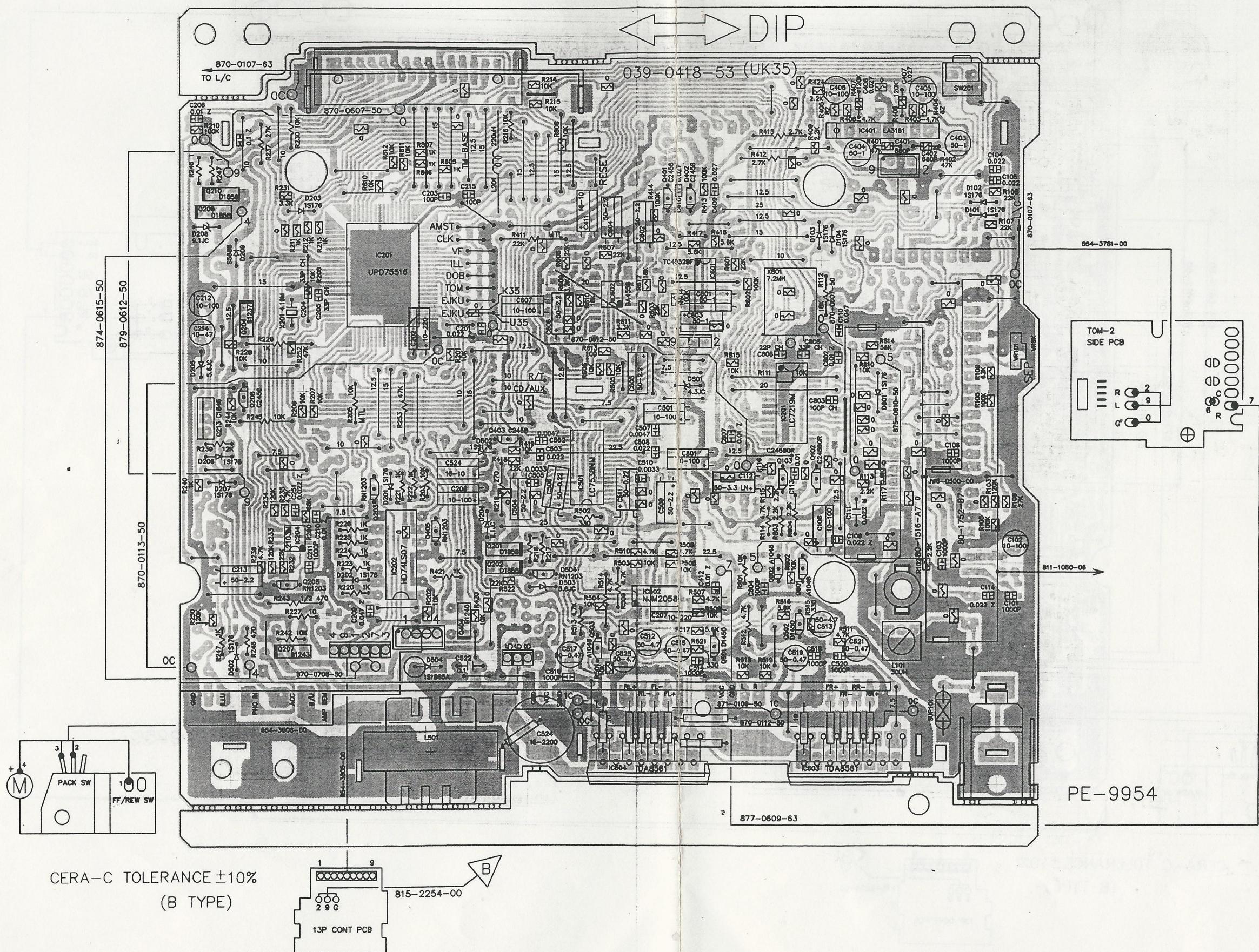
■ PRINTED WIRING BOARD:

• ARX3171 (PE-9950K-B)

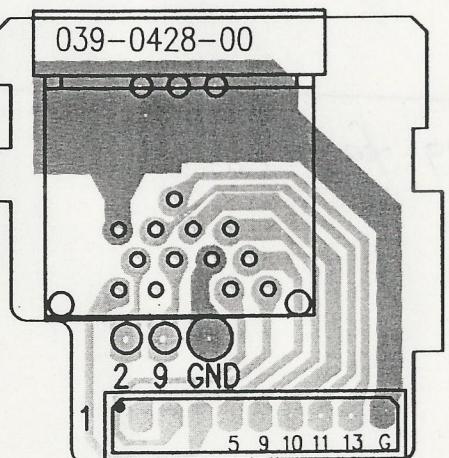
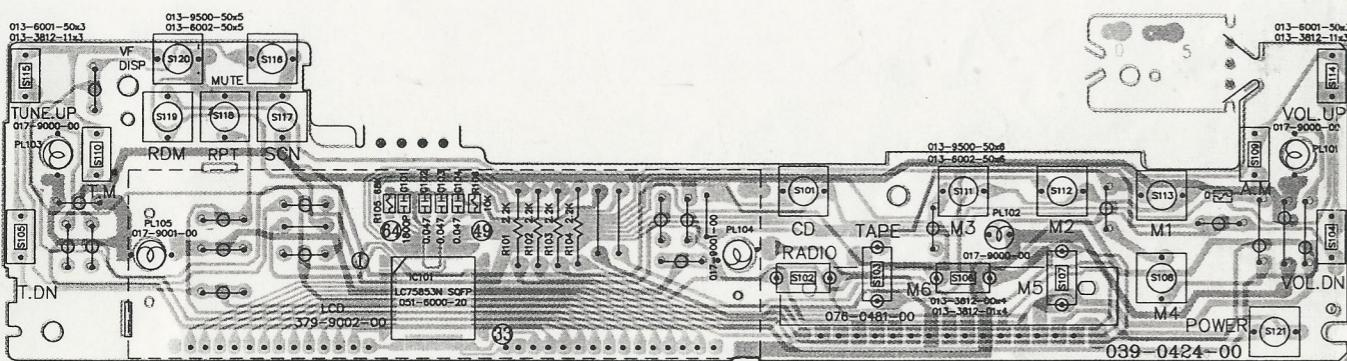
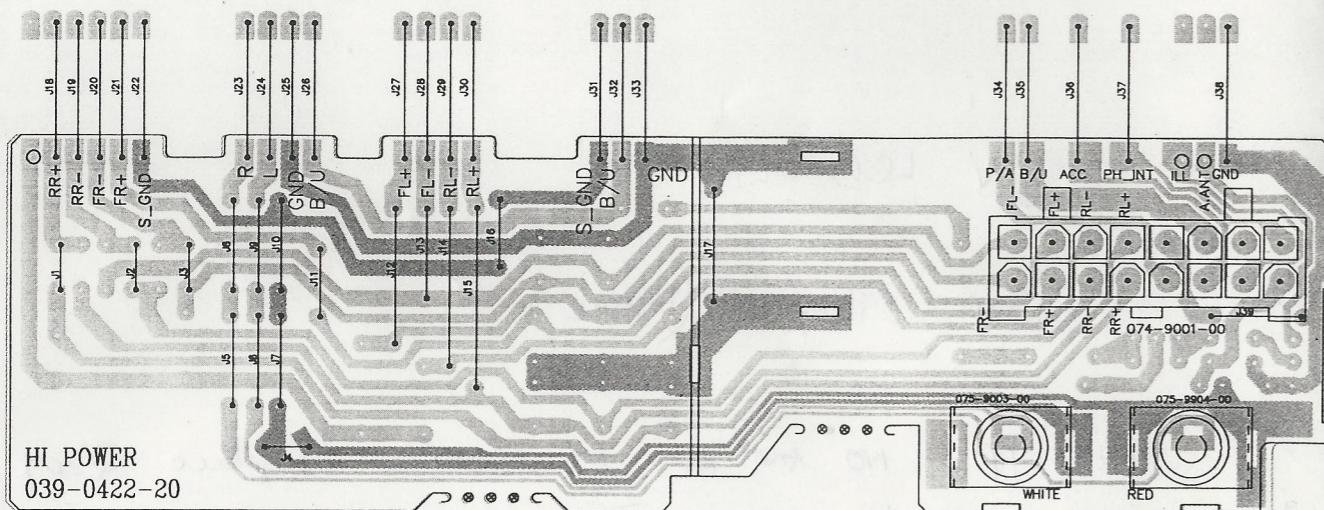
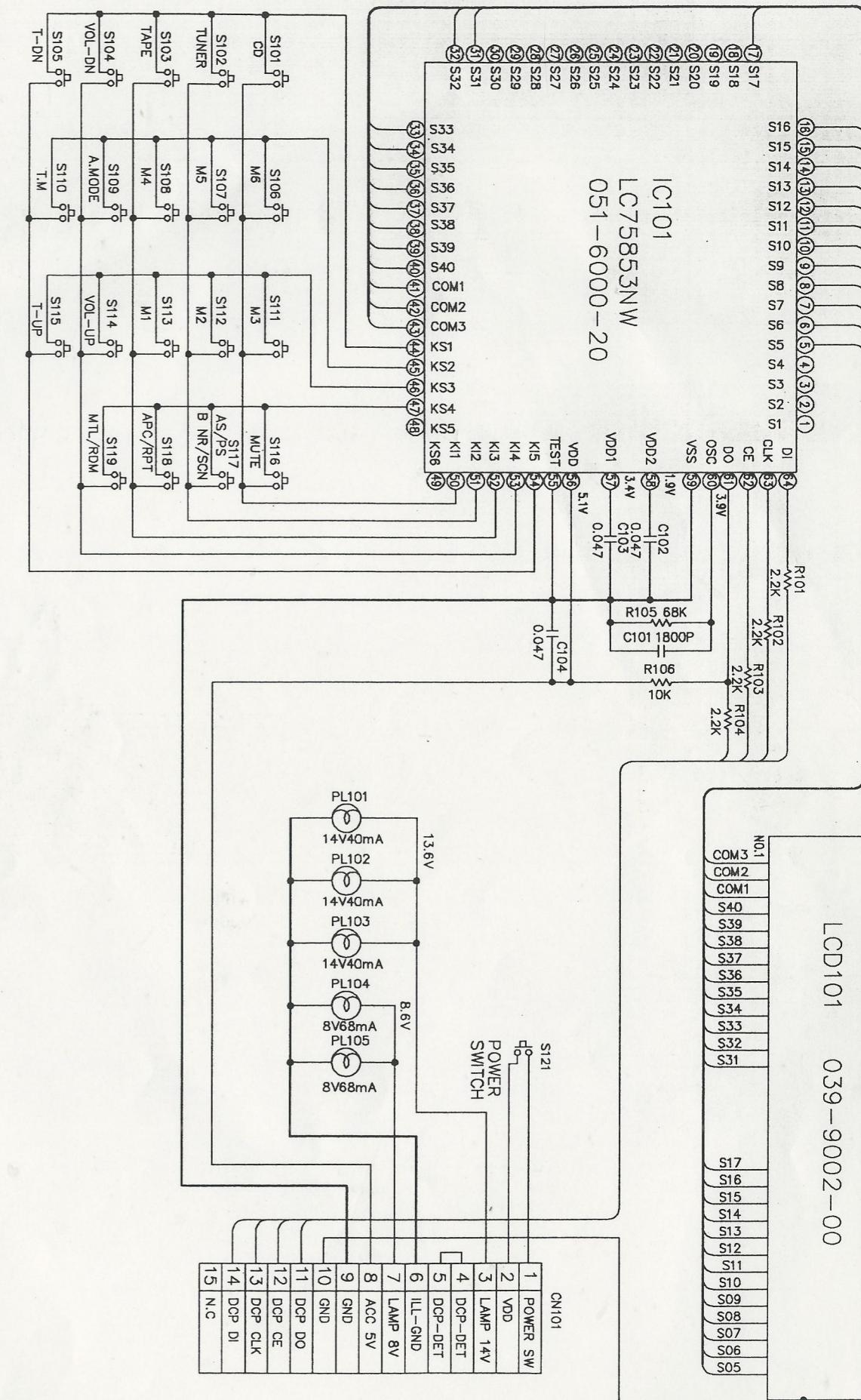
(E-HASCO-29) MITSUBISHI



• ARX3170 (PE-9954K-B)



■ CIRCUIT DIAGRAM:



8V LCD LAMPS

12V OTHER 3 (THREE)

NO O/P - NO ANT BT NO SCAN - Replace Q207

ARB 1170 \$ 2170 - DISPLAY FLASHES ON/OFF - IC also

R203 - REPAIR (SMT 10K)

When studio & 116 cuts out - check R219 for dry joints