

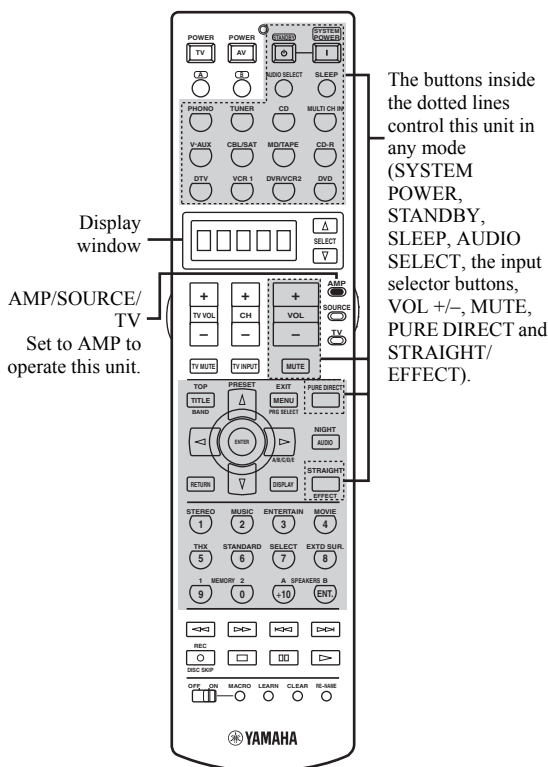
REMOTE CONTROL FEATURES

In addition to controlling this unit, the remote control can also operate other audio and video components made by YAMAHA and other manufacturers. To control these other components, you must set up the remote control with the appropriate remote control codes. This remote control also has a learn feature which allows the remote to acquire functions from other remote controls equipped with an infrared remote control transmitter.

Control area

■ Controlling this unit

The shaded areas below can be used to control this unit after setting AMP/SOURCE/TV to AMP to activate the AMP mode.



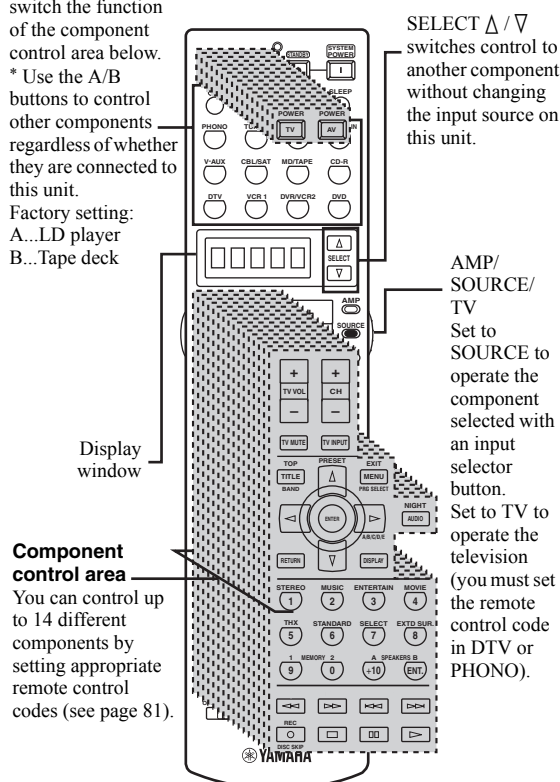
■ Controlling other components

The shaded areas below can be used to control other components. Each button has a different function depending on the selected components. Select the component you want to control by pressing an input selector button or SELECT Δ / ∇ . The name of the selected component appears in the display window.

The A/B and input selector buttons switch the function of the component control area below.

* Use the A/B buttons to control other components regardless of whether they are connected to this unit.

Factory setting:
A...LD player
B...Tape deck



■ Controlling optional components (OPTN area)

OPTN is an additional component control area that can be programmed with remote control functions independently from any input source. This area is useful for programming commands that are to be used only as a part of a macro function or for components that do not have a valid remote control code.

To select the OPTN control area, press ∇ repeatedly until OPTN appears in the display window.

Notes

- You cannot set a remote control code for this area. See page 73 to program buttons operated within this component control area.
- The OPTN area cannot be used when “2001” or “2003” is selected in the amplifier library (see page 72).

Setting remote control codes

You can control other components by setting the appropriate remote control codes. Codes can be set up for each input area. For a complete list of available remote control codes, refer to “LIST OF REMOTE CONTROL CODES” at the end of this manual.

The following table shows the default component (Library: component category) and the remote control code for each input area.

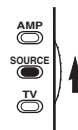
Remote Control Code Default Settings

Input area	Library (component category)	Default YAMAHA code
A	LD	2200
B	TAPE	2700
PHONO	TV	—
TUNER	TUNER	2602
CD	CD	2300
MULTI CH INPUT	DVD	2102
V-AUX	VCR	—
CBL/SAT	CABLE	—
MD/TAPE	MD	2500
CD-R	CD-R	2400
DTV	TV	—
VCR 1	VCR	—
DVR/VCR2	DVR	2807
DVD	DVD	2102

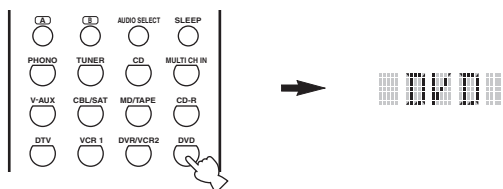
Note

You may not be able to operate your YAMAHA component even if a YAMAHA remote control code is preset as listed above. In this case, try setting another YAMAHA remote control code.

1 Set AMP/SOURCE/TV to SOURCE.



2 Press an input selector button to select the source component you want to set up.



3 Press and hold LEARN for about 3 seconds using a ballpoint pen or similar object.

The library name (ex. "L:DVD") and the selected component name (ex. "DVD") appear alternately in the display window.



If you want to setup for another component, press the input selector button or SELECT Δ / ∇ to select the component.

Notes

- Be sure to press and hold LEARN for at least 3 seconds, otherwise the learning process will start.
- If you do not complete each of the following steps within 30 seconds, the setting mode will be automatically canceled. In this case, press LEARN again.

If you want to change a library (component category), press $\triangle$ / ∇ . You can set a different type of component.

Library choices: L:DVD, L:DVR, L:LD, L:CD, L:CDR, L:MD, L:TAP (tape), L:TUN (tuner), L:AMP*, L:TV, L:CAB (cable), L:SAT (satellite), L:VCR

* The amplifier library (L:AMP) code is preset to "2000" in order to operate this unit. However, you can switch by entering one of the following 4 codes if necessary.

Setting remote control AMP codes

Select one of the following codes to set the remote control AMP code for the component you want to use.

Set AMP/SOURCE/TV to AMP or SOURCE, then change the remote control code settings.

AMP library code (remote control setting)	Function	Remote control AMP ID (this unit's setting: see page 86)
2000 (initial setting)	To operate this unit using the default code.	ID1 (initial setting)
2001	To operate this unit using the default code. To operate Zone 2 or Zone 3 features (see page 82).	
2002	To operate this unit using an alternative code.	ID2
2003	To operate this unit using an alternative code. To operate Zone 2 or Zone 3 features of other YAMAHA receivers/amplifiers (see page 82).	

Setting remote control tuner codes

Select one of the following codes to set the remote control tuner code for the component you want to use.

Set AMP/SOURCE/TV to SOURCE and the unit to the tuner mode by pressing TUNER on the remote control, then change the remote control code settings.

Tuner library code (remote control setting)	Function	Remote control tuner ID (this unit's setting: see page 86)
2602 (initial setting)	To operate this unit using the default code.	ID1 (initial setting)
2603	To operate this unit using an alternative code.	ID2

Note

When using multiple YAMAHA receivers/amplifiers, you may be able to operate the other components simultaneously with the default code setting. In this case, set one of the alternative codes to operate this unit separately.

4 Press ENTER.

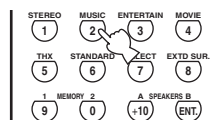
The four-digit code set for the selected component appears in the display window.

Note

"0000" appears in the display window if no code has been set.

5 Press the numeric buttons to enter the four-digit remote control code for the component you want to use.

For a complete list of available remote control codes, refer to "LIST OF REMOTE CONTROL CODES" at the end of this manual.



6 Press ENTER to set the number.

"OK" appears in the display window if setting was successful.

"NG" appears in the display window if the setting was unsuccessful. In this case, start over from step 3.

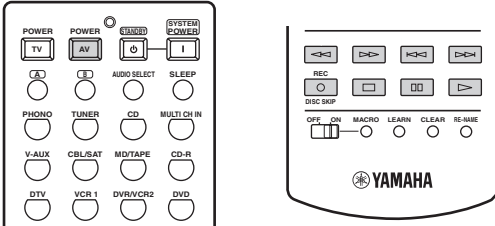


If you continuously want to set up another code for another component, press the input selector button or SELECT Δ / ∇ to select the component, then repeat steps 4 through 6.

- 7 Press LEARN again to exit from the setup mode.**



- 8 Press one of the buttons shaded below to see if you can control your component. If you can, the remote control code is correct.**



If the manufacturer of your component has more than one code, try each of them until you find the correct one.

Notes

- “ERROR” appears in the display window if you press a button not indicated in the respective step, or when you press more than one button simultaneously.
- The supplied remote control does not contain all possible codes for commercially available audio and video components (including YAMAHA components). If operation is not possible with any of the remote control codes, program the new remote control function using the Learn feature (see “Programming codes from other remote controls (Learn)”) or use the remote control supplied with the component.
- Function programmed using the learn feature take priority over remote control code functions.

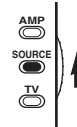
Programming codes from other remote controls (Learn)

Use the learn feature if you want to program functions not included in the basic operations covered by remote control codes, or an appropriate remote control code is not available. You can program any of the buttons available in the component control area (see page 70). The buttons can be programmed independently for each component.

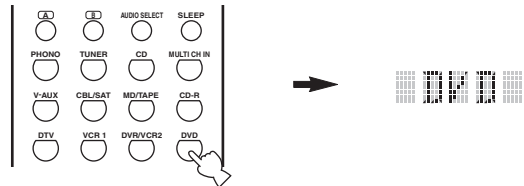
Note

This remote control transmits infrared rays. If the other remote control also uses infrared rays, this remote control can learn most of its functions. However, you may not be able to program some special signals or extremely long transmissions. (Refer to the operating instructions for the other remote control.)

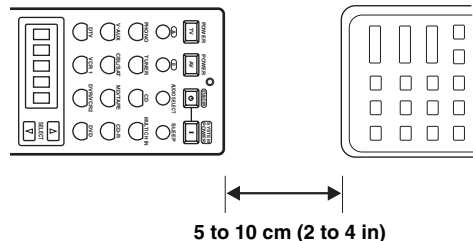
- 1 Set AMP/SOURCE/TV to SOURCE.**



- 2 Press an input selector button to select a source component.**

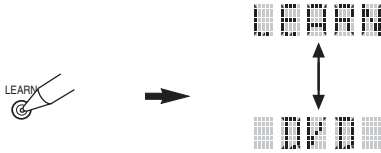


- 3 Place this remote control about 5 to 10 cm (2 to 4 in) apart from the other remote control on a flat surface so that their infrared transmitters are aimed at each other.**



4 Press LEARN using a ballpoint pen or similar object.

“LEARN” and the selected component name (ex. “DVD”) appear alternately in the display window.

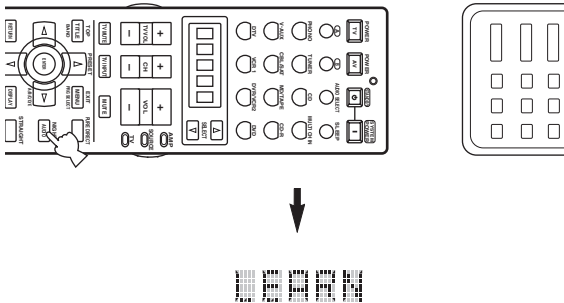


Notes

- Do not press and hold LEARN. If you hold it down for more than 3 seconds, the remote enters the remote control code setting mode.
- If you do not complete each of the following steps within 30 seconds, the learning mode will be automatically canceled. In this case, press LEARN again.

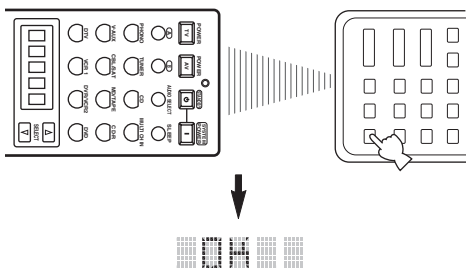
5 Press the button for which you want to program the new function.

“LEARN” appears in the display window.



6 Press and hold the button you want to program on the other remote control until “OK” appears in the display window.

“NG” appears in the display window if learning was unsuccessful. In this case, start over from step 5.



- If you want to program another function, repeat steps 5 and 6.
- If you continuously want to program another function for another component, press SELECT Δ / ∇ to select the component, then repeat steps 5 and 6.

7 Press LEARN again to exit the learning mode.



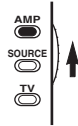
Notes

- “ERROR” appears in the display window if you press a button not indicated in the respective step, or when you press more than one button simultaneously.
- This remote control can learn approximately 200 functions. However, depending on the signals learned, “FULL” may appear in the display before you program 200 functions. In this case, clear unnecessary programmed functions to make room for further learning.
- Learning may not be possible in the following cases:
 - When the batteries in the remote control for this unit or other components are weak.
 - When the distance between the two remote controls is too great or too small.
 - When the remote control infrared windows are not facing each other at the appropriate angle.
 - When the remote control is exposed to direct sunlight.
 - When the function to be programmed is continuous or uncommon.

Changing source names in the display window

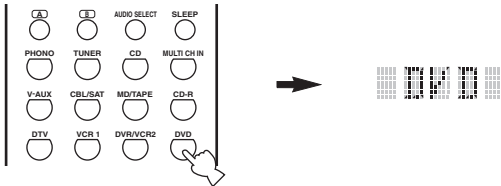
You can change the name that appears in the display window on the remote control if you want to use a different name than the factory preset. This is useful when you have set the input selector to control a different component.

1 Set AMP/SOURCE/TV to AMP or SOURCE.



2 Press an input selector button to select the source component you want to rename.

The selected component name appears in the display window.



3 Press RE-NAME using a ballpoint pen or similar object.



Note

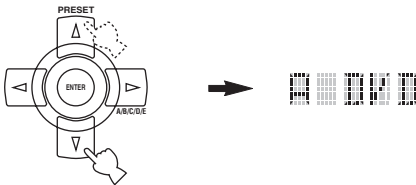
If you do not complete each of the following steps within 30 seconds, the renaming mode will be automatically canceled. In this case, press RE-NAME again.

4 Press Δ / ∇ to select and enter a character.

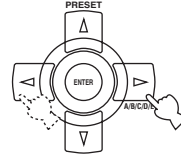
Pressing ∇ changes the character as follows:

A to Z, 1 to 9, 0, + (plus), - (hyphen), ; (semicolon), / (slash), and space.

(Pressing Δ changes the characters in reverse order.)



5 Press Δ / ∇ to move the cursor to the next position.



6 Press ENTER to set the new name.

"OK" appears in the display window if renaming was successful.

"NG" appears in the display window if renaming was unsuccessful. In this case, start over from step 4.



If you continuously want to rename another component, press the input selector button or SELECT Δ / ∇ to select the component, then repeat steps 4 through 6.

7 Press RE-NAME again to exit the renaming mode.



Note

"ERROR" appears in the display window if you press a button not indicated in the respective step, or when you press more than one button simultaneously.

Using the Macro feature

The Macro feature makes it possible to perform a series of operations with the press of a single button. For example, when you want to play a CD, normally you would turn on the components, select the CD input, and press the play button to start playback. The Macro feature lets you perform all of these operations simply by pressing the CD macro button. The buttons listed as macro buttons below are factory set with macro programs. You can also program your own macros (see page 77).

Press a macro button



To automatically transmit these signals in order



(CD area)

Macro buttons		First	Second	Third
			—	—
		(*1)	(*2)	—
		—	—	—
		—	—	—
		(*1)		—
			(*3)	—
				(CD area) (*4)
				—
				—
				—
				(MD/TAPE area) (*4)
				(CD-R area) (*4)
				—
				(VCR 1 area) (*4)
				(DVR/VCR 2 area) (*4)
				(DVD area) (*4)

*1 You can turn on some components (including YAMAHA components) connected to this unit by connecting them to the AC OUTLET(S) on the rear panel of this unit. (Power control may not be synchronized with this unit depending on the component. For details, refer to the operating instructions for the connected component.)

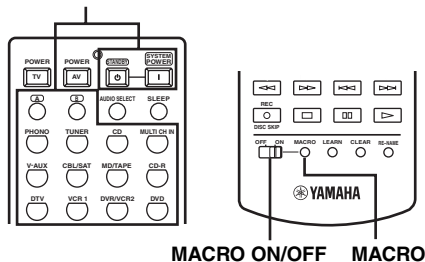
*2 When the remote control code for your TV is set up for either DTV or PHONO (see page 71), you can turn on the power of your TV without selecting an input source. The remote control code set up for DTV takes priority over the one for PHONO.

*3 When TUNER is selected as the input source, this unit plays the last station received before the unit was set in the standby mode.

*4 Playback can be started for any YAMAHA remote control-compatible MD recorder, CD player, CD recorder, DVD player, or DVD recorder. When using macros to operate other components, you will need to program the play button on the control area of that component (see page 73) or set a remote control code (see page 71).

Macro operations

Macro buttons



1 Set MACRO ON/OFF to ON.

2 Press a macro button.

Notes

- When you have finished using the Macro feature, set MACRO ON/OFF to OFF.
- While the remote is carrying out a Macro program, it will not accept any other button's function until the macro operation is complete (the transmission indicator stops flashing).
- Continue to aim the remote control at the component the macro is operating until the macro operation is complete.

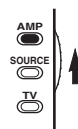
Programming macro operations

You can program your own macros and use the macro feature to transmit several remote control commands in sequence at the press of a button. Be sure to set up remote control codes or perform learning operations before programming the macro. We do not recommend programming continuous operations such as volume control in a macro.

Notes

- The default macro is not cleared when a new macro is programmed for a button. The default macro can be used again when the programmed macro is cleared.
- It is not possible to add a new signal (macro step) to the default macro. Programming a macro changes all macro contents.

1 Set AMP/SOURCE/TV to AMP or SOURCE.



2 Press MACRO using a ballpoint pen or similar object.

"MCR ?" appears in the display window.

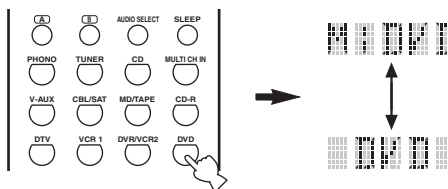


Note

If you do not complete each of the following steps within 30 seconds, the macro programming mode will be automatically canceled. In this case, press MACRO again.

3 Press the macro button you want to use to operate the macro.

The macro button name (ex. "M:DVD") and the selected component name (ex. "DVD") appear alternately in the display window.

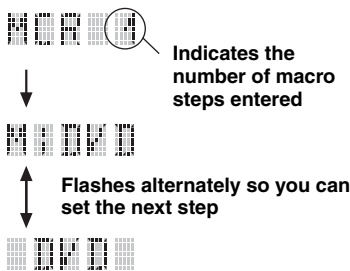
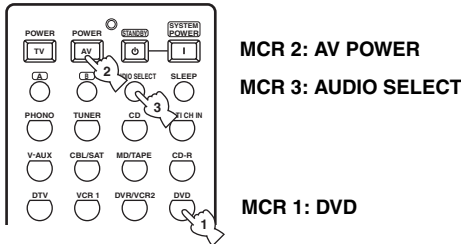


Note

"AGAIN" appears in the display window if you press a button other than a macro button.

4 Press the buttons for the functions you want to include in the macro operation in sequence.

You can set up to 10 steps (10 functions). After you have set 10 steps, "FULL" appears and the remote control automatically exits the macro mode.



Note

To change the selected source component, press SELECT Δ / ∇ . Pressing the input selector buttons will program a macro step, whereas SELECT Δ / ∇ only changes the selected component and corresponding component control area.

5 Press MACRO again when the operation sequence you want to program is complete.

Note

"ERROR" appears in the display window if you press a button not indicated in the respective step, or if you press more than one button simultaneously.

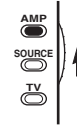
Memory back-up

If the remote control is without batteries for more than 2 minutes, or if exhausted batteries remain in the remote control, the contents of the memory may be cleared. If the memory is cleared, insert new batteries, set up the remote control code(s) and program any acquired functions that may have been cleared.

Clearing function sets

You can clear all changes made in each function set, such as learned functions, macros, renamed source names and setup remote control codes.

1 Set AMP/SOURCE/TV to AMP or SOURCE.



2 Press CLEAR by using a ballpoint pen or similar object.

"CLEAR" appears in the display window.



Note

If you do not complete each of the following steps within 30 seconds, the clearing mode will be automatically canceled. In this case, press CLEAR again.

3 Press Δ / ∇ to select the clear mode.

- L;CD (L: name of a component)
Clears all learned functions in the respective component control area. Press an input selector button to select the component.
- L;AMP
Clears all learned functions for this unit's control area.
- L;ALL
Clears all learned functions.
- M;ALL
Clears all programmed macros
- RNAME
Clears all renamed source names.
- FCTRY
Clears all remote functions and returns the remote to the factory settings.

4 Press and hold CLEAR again for about 3 seconds.

"WAIT" appears in the display window. If clearing was successful, "C;OK" appears in the display window.



Once you have cleared a learned function for a button, the button reverts to the factory setting (or to the manufacturer setting, if you have set remote control codes).

Note

"L;ALL" and "FCTRY" may take about 30 seconds to complete.

5 Press CLEAR to exit from the clear mode.



Notes

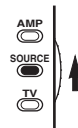
- “C;NG” appears in the display window if clearing was unsuccessful. In this case start over from step 3.
- “ERROR” appears in the display window if you press a button not indicated in the respective step, or if you press more than one button simultaneously.

Clearing individual functions

■ Clearing a learned function

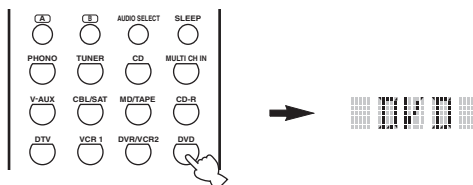
You can clear the function learned for a certain button in each control area.

1 Set AMP/SOURCE/TV to SOURCE.



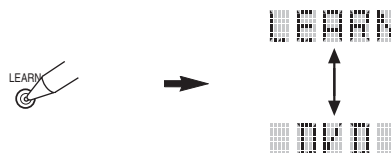
2 Press an input selector button to select the source component containing the function you want to clear.

The selected component name appears in the display window.



3 Press LEARN using a ballpoint pen or similar object.

“LEARN” and the selected component name (ex. “DVD”) appear alternately in the display window.

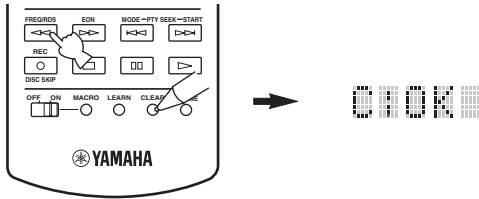


Notes

- Do not press and hold LEARN. If you hold it down for more than 3 seconds, the remote control enters the remote control code setting mode.
- If you do not complete each of the following steps within 30 seconds, the learning mode will be automatically canceled. In this case, press LEARN again.

4 Press and hold CLEAR using a ballpoint pen or similar object, then press the button you want to clear for about 3 seconds.

“C;OK” appears in the display window if clearing was successful.



- If you continuously want to clear another function, repeat step 4.
- If you continuously want to clear another function for another component, press SELECT Δ / ∇ to select the component, then repeat step 4.
- Once you clear a learned function, the button reverts to the factory setting (or to the manufacturer setting if you have set remote control codes).

5 Press CLEAR to exit the clearing mode.

The remote control returns to the learning mode.

6 Press LEARN again to exit.

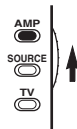
Notes

- “C;NG” appears in the display window if clearing was unsuccessful. In this case, start over from step 4.
- “ERROR” appears in the display window if you press a button not indicated in the respective step, or if you press more than one button simultaneously.

■ Clearing a macro function

You can clear the function programmed for a certain macro button.

1 Set AMP/SOURCE/TV to AMP or SOURCE.



2 Press MACRO using a ballpoint pen or similar object.

“MCR ?” appears in the display window.

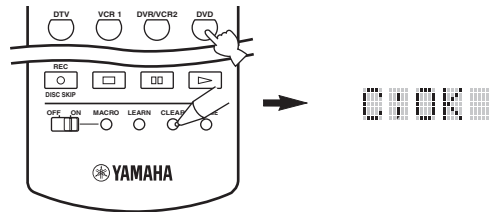


Note

If you do not complete each of the following steps within 30 seconds, the macro programming mode will be automatically canceled. In this case, press MACRO again.

3 Press and hold CLEAR using a ballpoint pen or similar object, then press the macro button you want to clear for about 3 seconds.

“C;OK” appears in the display window if clearing was successful.



- If you continuously want to clear another function, repeat step 3.
- Once you clear a programmed function, the button reverts to the factory setting (or to the manufacturer setting if you have set remote control codes).

4 Press CLEAR to exit the clearing mode.

The remote control returns to the macro programming mode.

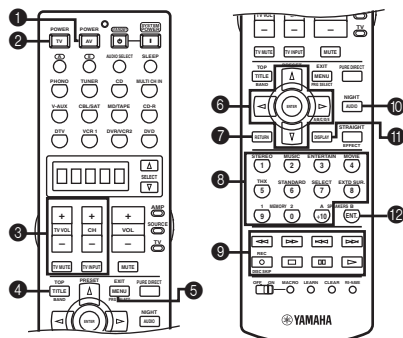
5 Press MACRO again to exit.

Notes

- “C;NG” appears in the display window if clearing was unsuccessful. In this case, start over from step 3.
- “ERROR” appears in the display window if you press a button not indicated in the respective step, or if you press more than one button simultaneously.

Controlling each component

Once you set the appropriate remote control codes, you can use this remote to control your other components. Note that some buttons may not correctly operate the selected component. Use the input selector buttons to select the component you want to operate. The remote control automatically switches to the appropriate control mode for that component.



	DVD player/ DVD recorder	VCR	Cable TV/ Satellite tuner	TV	LD player	CD player	MD recorder/ CD recorder	Tape deck	Tuner
1 AV POWER	Power *1	Power *1	Power *1	VCR power *3	Power *1	Power *1	Power *1	Power *1	Power *1
2 TV POWER	TV power *2	TV power *2	TV power *2	Power *1	TV power *2	TV power *2	TV power *2	TV power *2	TV power *2
3 TV VOL +	TV volume + *2	TV volume + *2	TV volume + *2	Volume +	TV volume + *2	TV volume + *2	TV volume + *2	TV volume + *2	TV volume + *2
TV VOL -	TV volume - *2	TV volume - *2	TV volume - *2	Volume -	TV volume - *2	TV volume - *2	TV volume - *2	TV volume - *2	TV volume - *2
CH +	TV channel + *2	Channel +	Channel +	Channel +	TV channel + *2	TV channel + *2	TV channel + *2	TV channel + *2	TV channel + *2
CH -	TV channel - *2	Channel -	Channel -	Channel -	TV channel - *2	TV channel - *2	TV channel - *2	TV channel - *2	TV channel - *2
TV INPUT	TV input *2	TV input *2	TV input *2	Input	TV input *2	TV input *2	TV input *2	TV input *2	TV input *2
TV MUTE	TV mute *2	TV mute *2	TV mute *2	Mute	TV mute *2	TV mute *2	TV mute *2	TV mute *2	TV mute *2
4 TITLE	Title	Title	Title	Title					Band
5 MENU	Menu		Menu	Menu					Program select *5
6 ENTER	Menu enter		Menu select	Menu select					
Δ	Menu up		Menu up	Menu up					Preset up (1 to 8)
∇	Menu down		Menu down	Menu down					Preset down (1 to 8)
◁	Menu left		Menu left	Menu left					Preset down (A to E)
▷	Menu right		Menu right	Menu right				Direction A/B	Preset up (A to E)
7 RETURN	Return	Return	Return	Return					
8 1-9, 0, +10	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons	Numeric buttons		Preset stations (1-8)
9 ◀◀	Search backward	Search backward	VCR search backward *3	VCR search backward *3	Search backward	Search backward	Search backward	Search backward	FREQ *4
▶▶	Search forward	Search forward	VCR search forward *3	VCR search forward *3	Search forward	Search forward	Search forward	Search forward	EON *4
⏮	Skip backward				Chapter/Skip backward	Skip backward	Skip backward	Direction back	PTY MODE *4
⏭	Skip forward				Chapter/Skip forward	Skip forward	Skip forward	Direction forward	PTY START *4
REC/ DISC SKIP	Disc skip (player) Rec (recorder)	Rec	VCR rec *3	VCR rec *3		Disc skip	Rec	Rec	
□	Stop	Stop	VCR stop *3	VCR stop *3	Stop	Stop	Stop	Stop	
⏸	Pause	Pause	VCR pause *3	VCR pause *3	Pause	Pause	Pause	Pause	
▶	Play	Play	VCR play *3	VCR play *3	Play	Play	Play	Play	
10 AUDIO	Audio				Audio				
11 DISPLAY	Display		Display	Display	Display	Display	Display		Display *5
12 ENTER		Enter	Enter/recall	Enter/ numeric button					

*1 This button functions only when the original remote control of the component has a POWER button.

*2 These buttons can operate your TV without switching the input if the remote control code is set in DTV or PHONO.

When the remote control code for your TV is set up in both the DTV and PHONO areas, priority is given to the signal in the DTV area.

*3 These buttons can operate your VCR without switching the input to VCR 1 if the remote control code is set in VCR 1.

*4 These buttons function for U.K. and Europe models only.

*5 These buttons function for the U.S.A. model only.

LIST OF REMOTE CONTROL CODES

CABLE

ABC	0030, 0035
AMERICAST	0926
BELL SOUTH	0926
BIRMINGHAM CABLE COMMUNICATIONS	0303
BRITISH TELECOM	0030
CABLE & WIRELESS	1095
DAERYUNG	0035, 0504, 0904, 1904
DIRECTOR	0503
FILMNET	0470
GENERAL INSTRUMENT	0030, 0303, 0503, 0837, 1904
GOLDSTAR	0171
HAMLIN	0036, 0300
JERROLD	0030, 0303, 0503, 0837
LG	0171
MNET	0470
MEMOREX	0027
MOTOROLA	0303, 0503, 0837, 1133
NTL	1095
NOOS	0844
ONO	1095
PVP STEREO VISUAL MATRIX	0030
PACE	0264, 1087, 1095
PANASONIC	0027, 0035, 0134
PARAGON	0027
PHILIPS	0332, 0344
PIONEER	0171, 0560, 0904, 1904
PULSAR	0027
QUASAR	0027
REGAL	0300, 0306
RUNCO	0027
SAGEM	0844
SAMSUNG	0027, 0171
SCIENTIFIC ATLANTA	0035, 0504, 0904, 1904
SONY	1033
STARCOM	0030
SUPERCABLE	0303
TS	0030
TELE+1	0470
TELEWEST	1095
TORX	0030
TOSHIBA	0027
TRANS PX	0303
UNITED CABLE	0030
ZENITH	0027, 0552, 0926

CD PLAYER

AIWA	0184
ARCAM	0184
AUDIO RESEARCH	0184
AUDIO TON	0184
AUDIOLAB	0184
AUDIOMECA	0184
CAIRN	0184

CALIFORNIA AUDIO LABS

	0056
CARVER	0184, 0206
CYRUS	0184
DKK	0027
DMX ELECTRONICS	0184
DENON	0900
DYNAMIC BASS	0206
EMERSON	0332
FISHER	0206
GENEXXA	0059, 0332
GOODMANS	0332
GRUNDIG	0184
HARMAN/KARDON	0184, 0200
HITACHI	0059
JVC	0099
KENWOOD	0055, 0064
KRELL	0184
LXI	0332
LINN	0184
MCS	0056
MAGNAVOX	0184, 0332
MARANTZ	0056, 0184
MATSUI	0184
MEMOREX	0332
MERIDIAN	0184
MICROMEGA	0184
MIRO	0027
MISSION	0184
MYRYAD	0184
NAD	0027
NSM	0184
NAIM	0184
OPTIMUS	0027, 0059, 0064, 0206, 0332
PANASONIC	0056
PHILIPS	0184
PIONEER	0059, 0332
POLK AUDIO	0184
PROTON	0184
QED	0184
QUAD	0184
QUASAR	0056
RCA	0059, 0206, 0332
REALISTIC	0206
REVOX	0184
ROTEL	0184
SAE	0184
SANSUI	0184, 0332
SANYO	0206
SCOTT	0332
SEARS	0332
SHARP	0064
SIMAUDIO	0184
SONIC FRONTIERS	0184
SONY	0027
SYMPHONIC	0332
TAG MCLAREN	0184
TANDY	0059
TECHNICS	0056
THORENS	0184
THULE	0184
UNIVERSUM	0184
VICTOR	0099
WARDS	0184
YAMAHA	2300, 2301

CD RECORDER

KENWOOD	0653
MARANTZ	0653
PHILIPS	0653
YAMAHA	2400

DVD PLAYER

ACOUSTIC SOLUTIONS	0757
ALBA	0744
AMSTRAD	0740
APEX DIGITAL	0699, 0744, 0782, 0821, 0823, 0857, 1127
BLAUPINKT	0744
BLUE PARADE	0598
BUSH	0740
CENTREX	0699
CLATRONIC	0815
CYBERHOME	0741
DVD2000	0548
DAEWOO	0811, 0797
DANSAI	0797
DECCA	0797
DENON	0517
DIAMOND	0795
DIGITREX	0699
EMERSON	0618
ENTERPRISE	0618
FISHER	0697
GE	0549, 0744
GO VIDEO	0742
GOLDSTAR	0768
GRADIENTE	0678
GREENHILL	0744
GRUNDIG	0566
HITACHI	0600, 0691
HITEKER	0699
JVC	0585, 0650
KLH	0744
KENWOOD	0517, 0561
KOSS	0678
LG	0768
LIMIT	0795
MAGNAVOX	0530, 0702
MARANTZ	0566
MEMOREX	0858
MICO	0750
MICROSOFT	0549
MINTEK	0744
MITSUBISHI	0548
MUSTEK	0757
NESA	0744
ONKYO	0530
ORITRON	0678
PALSONIC	0699
PANASONIC	0517, 0659, 1389
PHILIPS	0530, 0566, 0673, 0881
PIONEER	0552, 0598, 0658, 0659
POLK AUDIO	0566
PROSCAN	0549
QWESTAR	0678
RCA	0549, 0598, 0744
ROTEL	0650

SM ELECTRONIC	0757
SAMSUNG	0600
SANYO	0697
SHARP	0657
SHERWOOD	0797
SHINSONIC	0560
SLIM ART	0811
SONY	0560, 0891
SYLVANIA	0702
TATUNG	0797
TEAC	0598, 0744
TECHNICS	0517
THETA DIGITAL	0598
THOMSON	0549
TOSHIBA	0530
URBAN CONCEPTS	0530
XBOX	0549
YAMAHA	0517, 0566, 0572, 2100, 2101, 2102
ZENITH	0530, 0618, 0768
ZEUS	0811

DVD RECORDER

PANASONIC	2800, 2801, 2802
PHILIPS	2808
PIONEER	2804, 2805, 2806
TOSHIBA	2803
YAMAHA	2807

LD PLAYER

CARVER	0091
DENON	0086
MARANTZ	0091
MITSUBISHI	0086
NAD	0086
NAGSMI	0086
OPTIMUS	0086
PHILIPS	0091
PIONEER	0086
SALORA	0091
SONY	0228
TELEFUNKEN	0086
YAMAHA	2200

MD RECORDER

KENWOOD	0708
ONKYO	0895
SHARP	0888
SONY	0517
YAMAHA	2500, 2501, 2502

RECEIVER (TUNER)

ADC	0558
AIWA	0185, 1116, 1415, 1432, 1668
ALCO	1417
ANAM	1636
APEX DIGITAL	1284
AUDIOLAB	1216
AUDIOTRONIC	1216
AUDIOVOX	1417
BOSE	1256
CAMBRIDGE SOUNDWORKS	1397

CAPETRONIC 0558
 CARVER 1116, 1216
 CENTREX 1284
 DENON 1387
 FERGUSON 0558
 FINE ARTS 1216
 GRUNDIG 1216
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 0137, 1331
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 JBL 0137, 1333
 JVC 0101, 0558, 1401,
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 ONKYO 0162, 0869, 1325
 OPTIMUS 0558, 1050
 PANASONIC 0066, 1315, 1545,
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 PHILIPS 1116, 1216, 1293,
 1295, 1296, 1310,
 1316
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 QUASAR 0066
 RCA 0558, 1050, 1281,
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 SABA 0558
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 SUNFIRE 1340
 TEAC 1417
 TECHNICS 0066, 1335, 1336,
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 THORENS 1216
 UHER 0558
 VENTURER 1417
 VICTOR 0101
 WARDS 0041, 0185
 YAMAHA 0203, 1203, 1358,
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 2603

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@SAT 1327
 ABSAT 0150
 ALBA 0482
 ALPHASTAR 0799
 AMSTRAD 0874
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 ASTRO 0200
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BLAUPUNKT 0200
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 CHAPARRAL 0243
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 CYRUS 0227
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CROSLEY	0081	GRANDIN	0637	MAGNAVOX	0057, 0081, 1281,		0135, 0205, 0401,
CROWN	0036, 0064, 0207,	GRUNDIG	0064, 0222, 0514,		1481		0583, 0717, 1481
	0397, 0445		0583, 0614	MANESTH	0291, 0347	PHONOLA	0064
CURTIS MATHES	0057, 0074,	GRUNPY	0207	MARANTZ	0057, 0064, 0081,	PILOT	0057
	0081, 0087, 0120,	HCM	0036, 0439		0583	PIONEER	0136, 0190, 0193,
	0172, 0181, 0193,	HALLMARK	0205	MARK	0064		0314, 0706, 0787,
	0478, 0729, 1174,	HANKOOK	0057, 0205, 0207	MATSUI	0036, 0064, 0235,		0893
	1374	HANSEATIC	0064, 0347, 0388,		0398, 0514, 0543	PORTLAND	0119
DAEWOO	0036, 0057, 0064,		0455, 0583	MATSUSHITA	0277, 0677	PRANDONI-PRINCE	
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DAYTON	0036	HINARI	0036, 0064		1064	PROTECH	0036, 0064, 0274,
DE GRAAF	0235, 0575	HISAWA	0482	METZ	0474		0291, 0445, 0695
DECCA	0064, 0543	HITACHI	0036, 0057, 0119,	MICROMAXX	0835	PROTON	0036, 0057, 0205
DENON	0172		0132, 0136, 0172,	MICROSTAR	0835	PULSAR	0044
DIGATRON	0064		0190, 0205, 0252,	MIDLAND	0044, 0074, 0078	QUASAR	0078, 0277, 0677
DIXI	0036, 0064		0383, 0508, 0575,	MINERVA	0514	QUELLE	0064, 0131, 0388,
DUMONT	0044		0605, 1172, 1283	MINOKA	0439		0539
DWIN	0747, 0801	HUA TUN	0036	MITSUBISHI	0057, 0120, 0135,	R-LINE	0064
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ELITE	0347	ITT	0190, 0388, 0575		0636		1481, 1574
ELTA	0036	IMPERIAL	0274, 0397, 0445	MOTOROLA	0120	RFT	0455
EMERSON	0181, 0205, 0207,	INDIANA	0064	MULTITECH	0036, 0207	RADIO SHACK	0057, 0074,
	0263, 0388, 0490,	INFINITY	0081	MYRYAD	0583		0181, 0205, 0207
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ETHER	0036, 0057	INTERFUNK	0064, 0190, 0274,		0205, 0482, 0524,	REDIFFUSION	0388
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FERGUSON	0064, 0100, 0136,		0404	NTC	0119	REX	0190, 0286, 0291
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	0587	JCB	0027	NETSAT	0064	RUNCO	0044, 0057, 0524,
FIDELITY	0388	JVC	0080, 0398, 0490,	NEWAVE	0036, 0119, 0120,		0630
FINLANDIA	0235, 0373		0680, 0710		0205	SBR	0064
FINLUX	0064, 0131, 0132,	JEAN	0036, 0078, 0119,	NIKKAI	0064, 0291	SEG	0291, 0695
	0373, 0543		0183, 0263	NIKKO	0057, 0119, 0205	SEI	0543
FIRSTAR	0036, 0263	JENSEN	0788	NOKIA	0388, 0500, 0507,	SKY	0064
FIRSTLINE	0036, 0274, 0695	KEC	0207		0575, 0658	SSS	0207
FISHER	0131, 0181, 0235,	KTV	0057, 0207	NORCENT	0775, 0851	SABA	0136, 0190, 0314,
	0397	KAISUI	0036	NORDMENDE	0136, 0314,		0362
FLINT	0482	KAPSCH	0190		0587	SACCS	0265
FORMENTI	0064, 0347	KARCHER	0637	OCEANIC	0190, 0388	SAGEM	0637
FORTRESS	0120	KATHREIN	0583	ONWA	0207, 0460	SAISHO	0036, 0291, 0543
FRONTECH	0190, 0274, 0291	KENDO	0064	OPTIMUS	0181, 0193, 0277,	SALORA	0190, 0380, 0388,
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FUNAI	0207, 0198, 0291	KNEISSEL	0286, 0462	OPTONICA	0120	SAMBERS	0543
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GE	0057, 0074, 0078,	KORPEL	0064		0490, 0543		0120, 0181, 0198,
	0119, 0205, 0207,	KOYODA	0036	OSAKI	0291, 0439		0205, 0677, 1782
	0478, 0587, 1174,	L&S ELECTRONIC	0835	OTTO VERSAND	0064, 0347,	SAMSUNG	0036, 0057, 0064,
	1374, 1481	LG	0057, 0064, 0087,		0539, 0583		0087, 0117, 0119,
GEC	0064, 0543		0135, 0205, 0741	PALLADIUM	0397, 0445		0181, 0205, 0291,
GATEWAY	1782, 1783	LXI	0074, 0081, 0181,	PANAMA	0291		0397, 0583, 0614,
GELOSO	0036		0183, 0205	PANASONIC	0064, 0078, 0081,		0645, 0729, 0793,
GENEXXA	0190	LEYCO	0064, 0291		0190, 0277, 0677,		0839, 0841
GIBRALTER	0044, 0057	LIESENK & TTER	0064		1437	SANSEI	0478
GOLDSTAR	0057, 0064, 0136,	LOEWE	0539	PATHE CINEMA	0265, 0347	SANSUI	0490
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GOODMANS	0064, 0398, 0401,	M ELECTRONIC	0036, 0064,	PENNEY	0057, 0074, 0078,		0235, 0366, 0826
	0661		0131, 0132, 0136,		0087, 0183, 0205,	SCHAUB LORENZ	0388
GOREMJE	0397		0190, 0314, 0373,		1374	SCHNEIDER	0064, 0274, 0398,
GRADIENTE	0080, 0197		0401, 0507	PERDIO	0347		0695
GRAETZ	0190, 0388	MGA	0057, 0177, 0205	PHILCO	0057, 0064, 0081,	SCOTCH	0205
		MTC	0057, 0087, 0539		0172, 0205, 0207,	SCOTT	0205, 0207, 0263
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SELECO	0190, 0286	UNIVERSUM	0064, 0131, 0132, 0291, 0373, 0397, 0519	CROWN	0099, 0305	KODAK	0062, 0064
SEMIVOX	0207			CURTIS MATHES	0062, 0068, 0087, 1062	KOLIN	0068, 0070
SEMP	0183	VECTOR RESEARCH				KORPEL	0099
SHARP	0057, 0120, 0677		0057	CYBERNEX	0267	LG	0064, 0069, 0072, 0507
SHEN YING	0036, 0119	VESTEL	0064	CYRUS	0108	LXI	0064
SHENG CHIA	0036, 0120, 0263	VICTOR	0080, 0277, 0677, 0680	DAEWOO	0072, 0131, 0305, 0669, 1305	LENCO	0305
SIAREM	0543					LEYCO	0099
SIEMENS	0064, 0222	VIDEOSAT	0274	DANSAI	0099	LLOYD'S	0027
SINUDYNE	0543	VIDIKRON	0081	DE GRAAF	0069	LOEWE	0064, 0108, 1589
SKANTIC	0383	VIDTECH	0205	DECCA	0027, 0108	LOGIK	0099, 0267
SKYGIANT	0207	VIEWSONIC	1782	DENON	0069	LUXOR	0070, 0075, 0131
SKYWORTH	0064	VISION	0347	DUAL	0068	M ELECTRONIC	0027
SOLAVOX	0190	VOXSON	0190	DUMONT	0027, 0108, 0131	MEI	0062
SONITRON	0235	WALTHAM	0383	DYNATECH	0027	MGA	0070, 0267
SONOKO	0036, 0064	WARDS	0057, 0081, 0205, 0893	ESC	0267, 0305	MGN TECHNOLOGY	0267
SONOLOR	0190, 0235			ELCATECH	0099		
SONTEC	0064	WATSON	0064, 0347	ELECTROHOME	0064	MTC	0027, 0267
SONY	0027, 0677, 0861, 1127, 1532, 1678	WAYCON	0183	ELECTROPHONIC	0064	MAGNASONIC	1305
		WHITE WESTINGHOUSE		EMEREX	0059	MAGNAVOX	0027, 0062, 0066, 0108, 1808
SOUNDESIGN	0205, 0207		0064, 0347, 0490, 0650	EMERSON	0027, 0062, 0064, 0070, 0072, 0211, 0267, 0305, 1305, 1506	MAGNIN	0267
SOUNDWAVE	0064, 0445	YAMAHA	0057, 0796, 0860, 2900 (projector), 2901 (projector), 2902			MANESTH	0072, 0099
SOWA	0078, 0087, 0119, 0183, 0205			FERGUSON	0068, 0347	MARANTZ	0062, 0108
SQUAREVIEW	0198	YAPSHE	0277	FIDELITY	0027	MARTA	0064
STANDARD	0036	YOKO	0064, 0291	FINLANDIA	0108, 0131	MATSUI	0375, 0379
STARLITE	0207	ZENITH	0044, 0119, 0205, 0490	FINLUX	0027, 0069, 0108, 0131	MATSUSHITA	0062
STERN	0190, 0286					MEDION	0375
SUPREME	0027			FIRSTLINE	0064, 0070, 0072, 0099	MEMOREX	0027, 0062, 0064, 0066, 0074, 0075, 0131, 0267, 0334, 0375, 1264
SYLVANIA	0057, 0081, 0198			FISHER	0074, 0131		
SYMPHONIC	0198, 0207			FUJI	0060, 0062	MEMPHIS	0099
SYNCO	0027, 0087, 0119, 0120, 0205, 0478			FUJITSU	0027, 0072	METZ	0064, 0374, 1589
				FUNAI	0027	MINOLTA	0069
SYSLINE	0064			GE	0062, 0087, 0267, 0834, 1062, 1087	MITSUBISHI	0068, 0070, 0094, 0108, 0834
T + A	0474	ASA	0064, 0108	GEC	0108	MOTOROLA	0062, 0075
TCM	0835	ADMIRAL	0075	GARRARD	0027	MULTITECH	0027, 0099
TMK	0205	ADVENTURA	0027	GENERAL	0072	MURPHY	0027
TNCI	0044	AIKO	0305	GO VIDEO	0459	MYRYAD	0108
TVS	0490	AIWA	0027, 0064, 0334, 0375, 0379	GOLDHAND	0099	NAD	0131
TACICO	0036, 0119, 0205	AKAI	0068, 0342	GOLDSTAR	0064, 0252, 0507, 1264	NEC	0062, 0064, 0068, 0075, 0094, 0131
TAI YI	0036	AKIBA	0099			NATIONAL	0253
TANDY	0120, 0190	ALBA	0099, 0305, 0342, 0379	GOODMANS	0027, 0064, 0099, 0305	NECKERMANN	0108
TASHIKO	0119, 0677	AMERICA ACTION	0305	GRADIENTE	0027	NESCO	0099
TATUNG	0036, 0064, 0078, 0081, 0087, 0181, 0183, 0543	AMERICAN HIGH	0062	GRAETZ	0068, 0131, 0267	NEWAVE	0064
		AMSTRAD	0027	GRANADA	0108, 0131	NIKKO	0064
TEAC	0036, 0064, 0291, 0439, 0445, 0482, 0695, 1064	ANAM	0064, 0253, 0267, 0305, 0507	GRANDIN	0027, 0064, 0099	NOBLEX	0267
		ANAM NATIONAL	0253, 1589	GRUNDIG	0099, 0108, 0253, 0374	NOKIA	0068, 0131, 0267
TEC	0274	ANITECH	0099			NORDMENDE	0068, 0347
TECHNEMA	0347	ASHA	0267	HCM	0099	OCEANIC	0027, 0068
TECHNICS	0078, 0277, 0677	ASUKA	0064	HI-Q	0074	OKANO	0342, 0375
TECHWOOD	0078	AUDIOVOX	0064, 0305	HANSEATIC	0064	OLYMPUS	0062, 0253
TECO	0036, 0078, 0119, 0120, 0205, 0291, 0680	BAIRD	0027, 0068, 0131	HARLEY DAVIDSON	0027	OPTIMUS	0064, 0075, 0131, 0459
		BASIC LINE	0099, 0305			ORION	0211, 0375, 0379, 1506
TEKNIKA	0081, 0087, 0119, 0177, 0207	BEAUMARK	0267	HARMAN/KARDON	0108	OSAKI	0027, 0064, 0099
		BELL & HOWELL	0131	HARWOOD	0099	OTTO VERSAND	0108
TELEFUNKEN	0136, 0289, 0362, 0652, 0729	BLAUPUNKT	0253	HINARI	0099, 0267, 0379	PALLADIUM	0064, 0068, 0099
		BRANDT	0347	HITACHI	0027, 0064, 0068, 0069, 0267	PANASONIC	0062, 0252, 0253, 0643, 1062, 1589
TELEMEISTER	0347	BRANDT ELECTRONIC	0068	HUGHES NETWORK SYSTEMS	0069		
TELETECH	0036					PATHE MARCONI	0068
TENSAI	0347	BROKSONIC	0211, 0375, 1506	HYPSON	0099	PENNEY	0062, 0064, 0069, 0267, 1062, 1264
TERA	0057	BUSH	0099, 0305, 0379	ITT	0068, 0131, 0267	PENTAX	0069
THOMSON	0136, 0314, 0587, 0652, 1474	CCE	0099, 0305	ITV	0064, 0305	PERDIO	0027
		CGE	0027	IMPERIAL	0027	PHILCO	0062
THORN	0064, 0131, 0388, 0539	CALIX	0064	INTERFUNK	0108	PHILIPS	0062, 0108, 0645, 1108, 1208
		CANON	0062	JVC	0068, 0072, 0094		
TOSHIBA	0087, 0181, 0183, 0535, 0645, 0677, 0859, 1283, 1383, 1683, 1731	CARVER	0108	JENSEN	0068	PHONOLA	0108
		CIMLINE	0099	KEC	0064, 0305	PILOT	0064
		CINERAL	0305	KLH	0099		
		CITIZEN	0064, 0305, 1305	KAISUI	0099		
		COLT	0099				
TRIUMPH	0543	COMBITECH	0379				
TUNTEX	0036, 0057, 0119						

PIONEER	0069, 0094, 0108	TELEFUNKEN	0068, 0347
POLK AUDIO	0108	TENOSAL	0099
PROFITRONIC	0267	TENSAI	0027
PROLINE	0027	THOMAS	0027
PROSCAN	0087, 1087	THOMSON	0068, 0087, 0094,
PROTEC	0099		0347
PULSAR	0066	THORN	0068, 0131
PYE	0108	TIVO	0645, 0663
QUASAR	0062, 1062	TOSHIBA	0068, 0070, 0072,
QUELLE	0108		0094, 0108, 0872
RCA	0062, 0069, 0087,	TOTEVISION	0064, 0267
	0267, 0834, 1062,	UHER	0267
	1087	UNITECH	0267
RADIOSHACK	0027	UNIVERSUM	0027, 0064, 0108,
RADIOLA	0108		0267
RADIX	0064	VECTOR	0072
RANDEX	0064	VICTOR	0068, 0094
REALISTIC	0027, 0062, 0064,	VIDEO CONCEPTS	0072
	0074, 0075, 0131	VIDEOMAGIC	0064
REOC	0375	VIDEOSONIC	0267
REPLAYTV	0641, 0643	VILLAIN	0027
REX	0068	WARDS	0027, 0062, 0069,
ROADSTAR	0064, 0099, 0267,		0074, 0075, 0087,
	0305		0099, 0108, 0267
RUNCO	0066	WHITE WESTINGHOUSE	
SBR	0108		0099
SEG	0267	XR-1000	0027, 0062, 0099
SEI	0108	YAMAHA	0068
STS	0069	YAMISHI	0099
SABA	0068, 0347	YOKAN	0099
SALORA	0070	YOKO	0267
SAMPO	0064, 0075	ZENITH	0027, 0060, 0066,
SAMSUNG	0072, 0267, 0459		1506
SANKY	0066, 0075		
SANSUI	0027, 0068, 0094,		
	1506		
SANYO	0074, 0131, 0267		
SAVILLE	0379		
SCHAUB LORENZ	0027, 0068,		
	0131		
SCHNEIDER	0027, 0099, 0108		
SCOTT	0070, 0072, 0211		
SEARS	0027, 0062, 0064,		
	0069, 0074, 0131,		
	1264		
SELECO	0068		
SEMP	0072		
SHARP	0075, 0834		
SHINTOM	0099, 0131		
SIEMENS	0064, 0108, 0131		
SILVA	0064		
SINGER	0072, 0099		
SINUDYNE	0108		
SONIC BLUE	0641, 0643		
SONTEC	0064		
SONY	0027, 0059, 0060,		
	0062, 0663, 1259		
SUNKAI	0375		
SUNSTAR	0027		
SUNTRONIC	0027		
SYLVANIA	0027, 0062, 0108,		
	0070, 1808		
SYMPHONIC	0027		
TMK	0267		
TANDY	0027, 0131		
TASHIKO	0027, 0064		
TATUNG	0027, 0068, 0072,		
	0094, 0108		
TEAC	0027, 0068, 0305,		
	0334, 0669		
TECHNICS	0062, 0253		
TECO	0062, 0064, 0068,		
	0075		
TEKNIKA	0027, 0062, 0064		
TELEAVIA	0068		