Remote Commander

Operating Instructions
Manual de instrucciones (parte posterior)

RM-V12

English

WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

About This Remote Commander

This Remote Commander can operate any of the following audio and video components. Each component is assigned a different position on the Commander's slide switch:
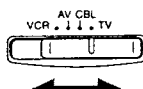
Component Type	Position
Cable box	CBL
TV	TV
VCR	VCR
Receiver/amp, CD player, tape deck, or a second TV, VCR, or cable box	AV

If You Have Sony Components...

You won't need to set up the Commander before you start using it. (This Commander is preset at the factory to operate Sony brand components.) However, you will need to set up the Commander if you have a cable box. Also, slide switch position **AV** is factory preset for Sony receivers. If you want to control different component with **AV**, you must first set up the Commander as described following.
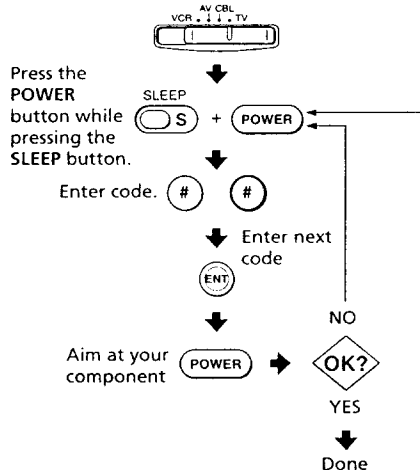
If You Do Not Have Sony Components...

• Whenever you remove the batteries — to replace them, for example — the code numbers you've set are automatically erased and must be reset.
• If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you plan to not use the Commander for a long period of time.
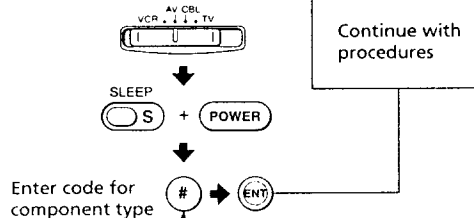
Setting Up the Commander

TV, VCR, or Cable Box

Set to TV, VCR, or CBL

Press the **POWER** button while pressing the **SLEEP** button.

Enter code.

Enter next code

Aim at your component

NO

OK?

YES

Done

Audio Components or Second TV, VCR or Cable Box

Set to AV

Continue with procedures

Enter code for component type

Component	Code
VCR	1
Receiver/amp	4
CD player	5
Tape deck	6
TV	8
Cable box	9

Cable box	CBL
TV	TV
VCR	VCR
Receiver/amp, CD player, tape deck, or a second TV, VCR, or cable box	AV

If You Have Sony Components...

You won't need to set up the Commander before you start using it. (This Commander is preset at the factory to operate Sony brand components.) However, you will need to set up the Commander if you have a cable box. Also, slide switch position **AV** is factory preset for Sony receivers. If you want to control different component with **AV**, you must first set up the Commander as described following.

If You Do Not Have Sony Components...

You'll need to follow the instructions in this manual to preset the Remote Commander with the correct code numbers for each of your components.

If You Have Video Components that Are Connected to an Audio System...

See "Setting Up Video Components That Are Connected to an Audio System".

Installing the Batteries

Slide open the battery compartment and insert two size AA batteries (not supplied).
Be sure to line up the ⊕ and ⊖ on the batteries with the ⊕ and ⊖ on the battery compartment.
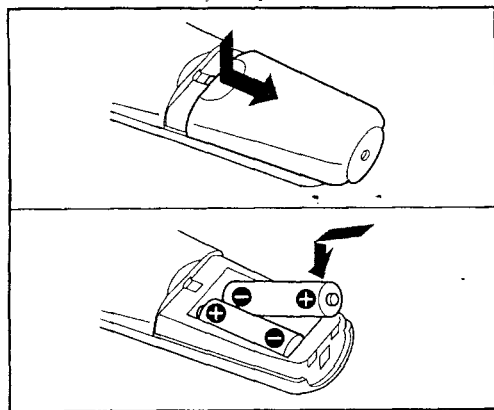
Notes on Batteries
• Under normal conditions, batteries will last up to six months. If the Remote Commander does not operate properly, the batteries might be worn out. When replacing batteries, replace both of them with new ones.
• Do not mix old batteries with new ones or mix different types of batteries together.


Set to AV

Continue with procedures

Enter code for component type
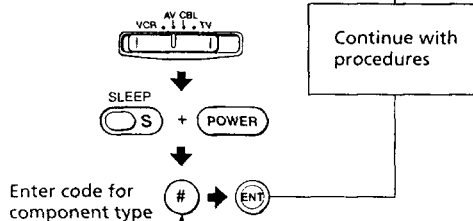
Component	Code
VCR	1
Receiver/amp	4
CD player	5
Tape deck	6
TV	8
Cable box	9

Step 1: Entering the Code Number

If you are setting up the Commander to operate components on position **AV**, you must first complete the procedures described under "Before You Set Up AV...".

1 Set the slide switch on the Remote Commander to the position of the component that you want to set up.

2 See "Component Code Numbers", and find the two-character code number for your component.
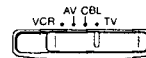
If more than one code number is listed, use the number that's listed first to complete the steps that follow.
For example, if you're setting up a Philips VCR, you would use code number **10**.

Brand	Component	Code No.
Philips	VCR	10, 08, 09

If your component is not listed, see "Searching for the Correct Code".

3 Press the **POWER** button while pressing the **SLEEP** button.

4 Enter the component's code number.

For example, if you're entering the code for a Philips VCR, you would press and release **1**, then press and release **0**.

Your Code Number

5 Press and release the **ENT** button to store the code number in the Commander's memory.

6 Go to "Step 2: Checking if the Code Number Works" to finish setting up.
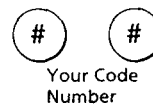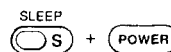
Step 2: Checking if the Code Number Works

1 Using the component's original remote control (or the power switch on the component itself), power on the component.

2 Aim the RM-V12 Remote Commander at the component and press the **POWER** button. The component should power off.

(POWER)

3 When the component powers off, press the **POWER** button again to turn it back on. Then check that the Commander is operating the other functions of your component. Press the channel and volume control buttons.

VOL   CH
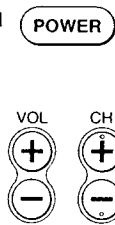
If the Commander Doesn't Seem to Be Working...

- First, try repeating these setup procedures using the other codes listed for your component.
- If – after trying all the codes listed for your component – you still cannot get the Commander to work properly, try the search method described under "Searching for the Correct Code".

If the Commander Seems to Be Working Properly...

- You're finished setting up the Commander for this component.
- If you're setting up more than one component (or a TV/VCR combination), you'll need to complete these procedures for each component you plan to use with the Commander.
- Use the label (supplied) to write down the code numbers of your components. Then affix the label to the back of the Commander.

Before You Set Up AV...

Before you set up the Commander to operate component on position AV, you must first define the type of component you want to use at this position. To define the type of component you want to use, complete the following procedure:

1 Set the slide switch on the Remote Commander to **AV**.

AV CBL
VCR ↓ ↓ TV

2 Press the **POWER** button while pressing the **SLEEP** button.

SLEEP
(S) + (POWER)

3 Enter one of the codes from the following table, based on the type of component you're setting up:

Component Type	Code No.
VCR	1
Receiver/amp	4
CD player	5
Tape deck	6
TV	8
Cable box	9

For example, if you're setting up a CD player, you would press and release **5**.

4 Press and release the **ENT** button to store the code number in the Commander's memory.

(ENT)

To finish setting up the component, go to "Step 1: Entering the Code Number" and complete the procedures that are described.

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you play your audio components through your receiver (or amplifier).

This feature lets you control the volume of your components without first having to change the Commander's slide switch to the component's audio source.

Factory Preset

Position	Audio Plays Through:
CBL	TV
TV	TV
VCR	TV
AV	Receiver/amp

For example, to control the volume for your VCR programs, you don't need to change the slide switch from **VCR** to **TV**.

Changing the Factory Preset Audio Source

If your video components are connected to an audio system, you probably play your TV and VCR's audio through your audio receiver, instead of your TV speakers. If so, you can change the factory preset so that you can control the volume of your video components without first having to switch to the receiver (**AV**). To change the factory preset audio source for your video components, follow the procedures in "Setting Up a Video Component That's Connected to an Audio System".

Setting Up a Video Component That's Connected to an Audio System

Use the following procedure to change the factory preset audio source for your video components. You can change this either before or after you set up the Commander to work with your component.

1 Set the slide switch on the Remote Commander to the position of the video component that you want to set up.

AV CBL
VCR ↓ ↓ TV

2 Press the **POWER** button while pressing the **SLEEP** button.

SLEEP
(S) + (POWER)

3 To control the component's sound through your receiver which is assigned to **AV**, press the **VOL –** button.

VOL
(–)

To control the component's sound through your receiver which is assigned to **TV**, press the **VOL +** button.

VOL
(+)

4 Press and release the **ENT** button to store your setting in the Commander's memory.

(ENT)

5 If you haven't already done so, finish setting up the component by completing the procedures under "Step 1: Entering the Code Number".
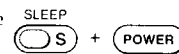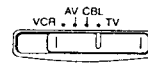
Using the Remote Commander

Turning On/Off a Component

1 Set the slide switch on the Remote Commander to the position of the component that

AV CBL
VCR ↓ ↓ TV

TV	0
Cable box	9
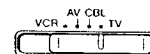
For example, if you're setting up a CD player, you would press and release **5**.
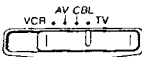
4 Press and release the **ENT** button to store the code number in the Commander's memory.

To finish setting up the component, go to "Step 1: Entering the Code Number" and complete the procedures that are described.

Searching for the Correct Code

If you've tried all the code numbers listed for your component and you still cannot get the Commander to work, try these steps:

1 Using the component's original remote control (or the power switch on the component itself), power on the component.

2 Set the slide switch on the Remote Commander to the position of the component that you want to set up.

3 Press the **POWER** button while pressing the **SLEEP** button.

4 Press and release the **CH +** button. Then press and release the **POWER** button.

5 Repeat step 4 until your component powers off. Pressing **CH +** and **POWER** repeatedly will try every available code until the correct one is found. Be patient as you do this; it may take 50 or 60 tries until the correct code number is located.

6 When the component powers off, press and release the **ENT** button to store the code number in the Commander's memory.

7 Check that the Commander is operating the other functions of your component. Turn on the component again; then press the channel and volume control buttons. If it seems to be working properly, you're done setting up the Commander.
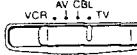
If you still cannot get the Commander to work properly, see "Troubleshooting".

Setting Up Video Components That Are Connected to an Audio System

The Remote Commander is factory preset based on the assumption that you play the audio portion of your video programs through your TV's speakers, and that

Using the Remote Commander
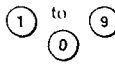
Turning On/Off a Component

1 Set the slide switch on the Remote Commander to the position of the component that you want to turn on/off.

2 Point the Commander directly at the component.

3 Press the **POWER** button to power on/off the component.

Note: There may be cases you may turn on/off the cable box by pressing the **CH+** or **CH-** buttons on the Commander.

Operating a Component

1 Make sure the slide switch is set to the component you want to operate.

2 Point the Commander directly at the component.

3 Press the button for the function you want to use. See "Remote Button Descriptions" for complete descriptions of the buttons on the Commander.

Remote Button Descriptions

Remote Button	Operates	Function
(TV/VIDEO)	TV VCR	Selects the input mode
(POWER)	All components	Turns on and off the component
1 to 9, 0	TV VCR Cable box	Selects the channel. For example, to go to channel 5, press 0 and 5 (or, press 5 and **ENT**.) You can also change the channel with **CH +/-**.
	Receiver/amp	Selects the input source: **1** selects VIDEO1 **2** selects VIDEO2 **3** selects VIDEO3 **4** selects TUNER **5** selects CD PLAYER **6** selects TAPE DECK **8** selects TV **9** selects CABLE BOX (**7** and **0** do not have an assigned function)
	CD player	Selects the track number. **0** selects track 10. To select track numbers above 10, see **DISP**.

| Remote Button	Operates	Function
① to ⑨ ⓪	Tape deck	Selects the tape direction: 1 selects Deck A (dual cassette deck only*) 2 selects Deck B (dual cassette deck only*) 0 functions as ◄ REV button, or switches play sides (The other buttons do not have assigned functions)
(DISP)	TV	Displays the current channel on TV
	VCR	Displays the on-screen menu (Sony VCR only)
	CD player	Selects track numbers 10 and above. For example, to select track 15, press DISP and then press 5.
(ENT)	TV VCR Cable box	Used with 0-9 buttons to change channels. For example, to go to channel 5, press 5 and ENT. You can also change the channel with CH +/–.
(◄◄)	VCR	Rewind
	CD player	Selects previous track
	Tape deck	Rewind
(►)	VCR CD player	Play
	Tape deck	Play (in normal direction)
(►►)	VCR	Fast-forward
	CD player	Selects next track
	Tape deck	Fast-forward
REC (●)	VCR Tape deck	Record To record, press ► while pressing ●. First release ►, then release ●.
(■)	VCR CD player Tape deck	Stop
(II)	VCR CD player Tape deck	Pause
CH (+)(−)	TV VCR Cable box	Channel up: +. Channel down:–
	Receiver	Presetting frequency up: +, down: –, or tuning frequency up:+, down: –
VOL (+)(−)	TV Cable box Receiver/amp	Volume up: + Volume down: –
(MUTING)	TV Receiver/amp	Mutes volume on TV Press again to turn muting off.
(RECALL)	TV Cable box	Functions as the JUMP, FLASHBACK or CHANNEL RETURN button.

Component Code Numbers

TV and VCR Codes

Brand	Component	Code No.
Sony	VCR	01 (VTR3: VHS) 02 (VTR2: 8 mm) 03 (VTR1: Beta)
	TV	01
Admiral (M.Wards)	VCR	27
	TV	02, 14, 09
Aiwa	VCR	38
AOC	TV	12
Audio Dynamic	VCR	14, 37
Bell & Howell (M. Wards)	VCR	30, 43
	TV	14, 09, 38
Brocsonic	VCR	17, 19
	TV	03, 12
Canon	VCR	09, 08
Citizen	VCR	32
Craig	VCR	15, 02, 32
	TV	22, 23, 20, 21
Croslex	TV	11
Curtis Mathis	VCR	04, 38, 09
	TV	03, 19, 23
Daewoo	VCR	41, 12, 09
	TV	35, 36, 03
	TV/VCR Combo	36 (TV) & 41 (VCR)
Daytron	TV	13
DBX	VCR	14, 36, 37
Dimensia	VCR	04
Emerson	VCR	41, 19, 20, 16, 17, 18
	TV	22, 13, 20, 21, 23, 03, 15
	TV/VCR Combo	21 (TV) & 20, 19 (VCR)
Fisher	VCR	30, 34, 35, 33
	TV	25
Funai	VCR	38
General Electric	VCR	29, 04, 09
	TV	02, 18, 03, 07
	TV/VCR Combo	27 (TV) & 21, 22 (VCR)
Goldstar	VCR	32
	TV	03, 13, 12, 30
	TV/VCR Combo	TV code & 32 (VCR)
Hitachi	VCR	08, 04, 05
	TV	31, 13, 03, 32

		manufacturer
Receiver		Shifts band (FM/AM)
CD player		Selects next disc
Tape deck		Selects tape deck: deck A or deck B (dual cassette deck only*)
All components		Used this switch to change to the specific component that you want to operate
SLEEP	TV	Used for operating a Sleep function on TV (works only for TV with a Sleep function)
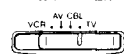
* For details, see "Note on Operating a Dual Cassette Deck".

Notes on Using the Remote Commander

- Using this Commander will not increase the functions of your TV, VCR, or cable box. The functions of the Commander are limited to the functions of the components themselves. For example, if your TV does not have a Recall function, the **RECALL** button on this Commander will not function with your TV.
- If your cable box can control volume, be sure to set its volume switch to a medium position. If the volume on the cable box is turned down completely, you will not be able to adjust your TV's volume with the Commander.
- If your video components are connected to an audio system, make sure you've set up the Commander as described in "Setting Up Video Components That Are Connected to an Audio system".

Note on Operating a Dual Cassette Deck

To select a deck A or B on a dual cassette deck, use either the number buttons (**1** and **2**), or the **RECALL** button, depending on the type of the remote commander supplied with your dual cassette deck, as explained below.

- If the deck's commander has two sets of tape operating buttons and has no A/B button for deck selection, use the number buttons (**1** and **2**): the **1** button selects Deck A, and the **2** button selects Deck B.
- If the deck's commander has one set of tape operating buttons, and has an A/B button for deck selection, use the **RECALL** button to select Deck A or B.

Manufacturer	Component	Code
JC Penny	VCR	09, 05, 04, 30, 14, 36, 37
	TV	03, 02, 30, 07
JVC	VCR	14, 36, 37
	TV	28, 29
Kenwood	VCR	14, 36, 32, 37
KTV	TV	33, 13, 03, 23, 34
LXI (Sears)	VCR	38, 32, 05, 33, 34, 30, 35
	TV	02, 03, 11, 25, 19, 12
Magnavox	VCR	10, 08, 09
	TV	11, 12, 13, 03
	TV/VCR Combo	11, 18 (TV) & 09, 10, (VCR)
Marantz	VCR	14, 36, 37
Marta	VCR	32
Memorex	VCR	09, 35
Minolta	VCR	05, 04
Mitsubishi/MGA	VCR	23, 24, 25, 26
	TV	24, 03, 12
Multitech	VCR	25, 38, 21
NEC	VCR	14, 36, 37
	TV	03, 12
Olympic	VCR	09, 08
Panasonic	VCR	08, 09, 06, 07
	TV	18, 16, 17, 07
	TV/VCR Combo	18 (TV) & 08, 09 (VCR)
Pentax	VCR	05, 04
Philco	VCR	08, 09
	TV	11, 13, 03
Philips	VCR	10, 08, 09
	TV	11
Pioneer	VCR	08
	TV	37, 18, 19
Portland	TV	03, 08
Quasar	VCR	08, 09
	TV	18, 07
	TV/VCR Combo	18 (TV) & 09 (VCR)
Radio Shack	TV	02, 12, 24, 23
RCA/PROSCAN	VCR	04, 05, 08, 09, 10, 11, 12, 13
	TV	02, 03, 04, 05, 06, 07, 08
	TV/VCR Combo	18 (TV) & 08 (VCR)
Realistic	VCR	09, 30, 28, 35, 24, 38
Sansui	VCR	14
Singer	VCR	15

Brand	Component	Code No.
Samsung	VCR	22, 13, 21
	TV	26, 12, 13, 03
	TV/VCR Combo	23, 27 (TV) & 21, 22, 26 (VCR)
Sanyo	VCR	30, 35
	TV	25
Scott	VCR	12, 13, 21, 35, 23, 24, 25, 26
	TV	23, 12
Sharp	VCR	27, 28
	TV	14, 13, 15
Shintom	VCR	15
Signature 2000 (M. Wards)	VCR	38, 27
	TV	14, 09
Sylvania	VCR	10, 08, 09, 38
	TV	11, 12, 03
Symphonic	VCR	38
	TV	23, 39
	TV/VCR Combo	23 (TV) & 38 (VCR)
Tashiro	VCR	32
Tatung	VCR	14, 36, 37
Teac	VCR	14, 36, 38, 37
Technics	VCR	09, 08
Toshiba	VCR	12, 11
	TV	19, 14
Videch	TV	31, 03, 12
Wards	VCR	27, 28, 35, 31, 32
	TV	13, 03, 15, 12
Yamaha	VCR	30, 14, 36, 37
Zenith	VCR	31
	TV	09, 10

Cable Box Codes

Brand	Code No.
Hamlin/Regal	22, 23, 24, 25, 26
Jerrold/G.I.	01, 02, 03, 04, 05, 06, 07, 08, 18
Oak	27, 28, 29
Panasonic	19, 20, 21
Pioneer	14, 15
Scientific Atlanta	09, 10, 11
Tocom	16, 17
Zenith	12, 13

Receiver/Amplifier Codes

Brand	Code No.
Sony	01
Aiwa	22, 27
Denon	12, 13, 14
Fisher	34
JVC	05, 06
Kenwood	03, 04
Magnavox	35
Nakamichi	16
Onkyo	09, 20
Panasonic	21
Philips	24
Pioneer	02, 25
RCA	28, 29, 31
Sansui	16, 17, 23
Sharp	12, 30
Teac	15, 18, 19
Technics	07, 08, 21
Yamaha	10, 11

Mini Hi-Fi component system codes

Brand	Code No. for each section		
	Receiver	CD	Tape
Sony	01	01	01
Admiral	33	33	–
Aiwa	22	30	–
	27	32	16
Denon	12	24	13
Garrard	19	37	–
Harman	38	43	–
Jensen	37	31	29
JVC	06	06	04
	05	05	03
Kenwood	04	09	08
	03	08	07
Marantz	32	26	28
McIntosh	39	43	–
Onkyo	09	17	09
Panasonic	21	29	19
Pioneer	25	13	20
RCA	26	11	25
Sansui	17	16	18
Sharp	30	28	–
	12	24	13

Separate Components

Tape Deck Codes

Brand	Code No.
Sony	01
Aiwa	16, 22, 23
Denon	13
Fisher	30
JCV	03, 04
Kenwood	07, 08
Nakamichi	15
Onkyo	09, 10, 21
Panasonic	19
Philips	24
Pioneer	02, 20
RCA	26, 27
Sansui	15, 18
Sharp	13
Teac	14, 17
Technics	05, 06, 19
Yamaha	11, 12

CD Player Codes

Brand	Code No.
Sony	01
Aiwa	30, 32
Denon	24
Fisher	27
JVC	05, 06, 07
Kardon	40
Kenwood	08, 09, 10
Magnavox	22, 23
Nakamichi	14
Onkyo	17, 18
Panasonic	29
Philips	22, 26
Pioneer	02, 13
RCA	12, 38, 39
Sansui	14, 16, 34
Sanyo	27
Shewood	41
Sharp	24, 28
Teac	15, 25, 37
Technics	03, 04, 29
Yamaha	19, 20, 21

Teac	15	–	14
Technics	21	29	19
	07	03	05
	08	04	06
Yamaha	10	19	11
	11	20	12

Troubleshooting

If you're having problems setting up or using the Remote Commander:

- When setting up the Commander, carefully go through the procedures described under "Setting Up the Commander". If the code that's listed first for your component doesn't work, try all the codes listed for your component — in the order in which they're listed. If all the codes fail to work (or if your component is not listed in this manual), try using the procedures under "Searching for the Correct Code".
- When setting up the component, if you press the wrong button, move the slide switch to a different position. Then reset the slide switch and start the procedures over again.
- Check that the slide switch is set to the component you want to control.
- Check that you're aiming the Commander directly at the component, and that there are no obstructions between the Commander and the component.
- Make sure the batteries you're using are not worn out, and that they're inserted correctly. Note that whenever you remove the batteries — to replace them, for example — the preset codes are erased from memory and must be reset.
- Check that the component has infrared remote capability. For example, if your component didn't come with a remote, it probably isn't capable of being controlled by a remote commander.
- If your video components are connected to an audio system, make sure you've set up the Commander as described in "Setting Up Video Components That Are Connected to an Audio system".

Specifications

Operable distance	Approximately 7 m (23 ft.) (varies depending on the component of each manufacturer)
Power requirements	Two size AA batteries (not supplied)
Battery life	Approx. 6 months (varies depending on frequency of use)
Dimensions	69 × 195 × 40 mm (w/h/d) (2 3/4 × 7 3/4 × 1 5/8 inches)
Mass	Approx. 100 g (3.5 oz) (not including batteries)
Supplied Accessories	Label (2)

Design and specifications are subject to change without notice.