

KV-M1410U/M1411U

RM-694

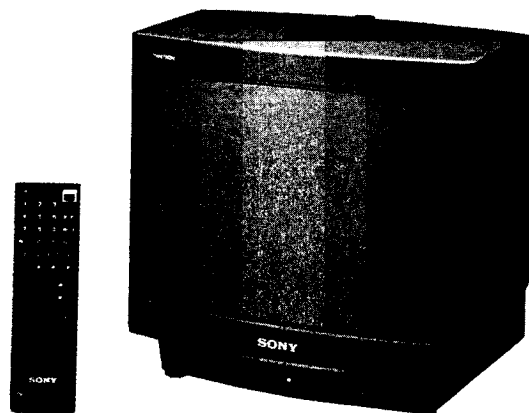
SERVICE MANUAL

UK Model
KV-M1410U

Chassis NO. SCC-D86K-A

KV-M1411U

Chassis NO. SCC-D86L-A



BE-2A CHASSIS

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

MODELS OF THE SAME SERIES

KV-M1410U/M1411U	KV-M1921U
KV-M1420U/M1421U	KV-M2140U/M2141U
KV-M1620U/M1621U	

SPECIFICATIONS

[KV-M1410U/M1411U]

Television system	I
Colour system	PAL
Channel coverage	UHF : 21-69
Picture tube	Black Trinitron tube 90° degree deflection Approx. 36.8 cm (14 inches) (Approx. 33.7cm picture measured diagonally)
Inputs	21-pin connector : CENELEC standard. Including RGB input Audio/Video input jacks : phono jacks
Outputs	21-pin connector : CENELEC standard Headphones jack : minijack
Sound output	5 W (Music)
Power consumption	64W (KV-M1410U) 69W (KV-M1411U)
Dimensions	Approx. 345x325x407.5mm (w/h/d)
Weight	Approx. 10.5kg (KV-M1410U) Approx. 11.0kg (KV-M1411U)

Supplied accessories	RM-694 Remote Commander (1) IEC designation R6 batteries (2) Loop antenna (1)
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[RM-694]

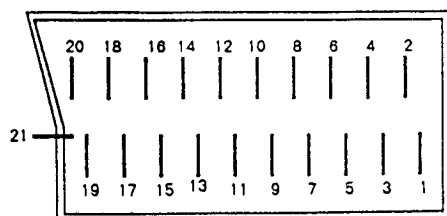
Remote control system	infrared control
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Dimensions	Approx. 55×18×185mm (w/h/d)
Weight	Approx. 100g including batteries
Accessories supplied	IEC designation R6 batters (2)

Design and specifications are subject to change without notice.


TRINITRON® COLOUR TV
SONY®



21-pin Euro Connector Configuration

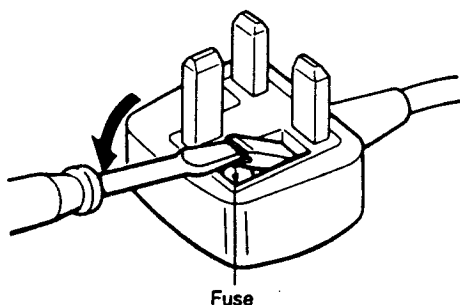


• **CAUTION**

The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 amp capacity. Should the fuse need to be replaced, use a 5 AMP FUSE approved by ASTA to BS 1362, i.e., carries the  mark.

How to replace the fuse

Open the fuse compartment with the blade screwdriver, and replace the fuse.



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1kiloohm or less
2	Audio input	0.5Vrms/10kiloohms or more
3	Audio output	0.5Vrms/1kiloohm or less
4	Earth (audio)	
5	Earth (B-input)	
6	Audio input	0.5Vrms/10kiloohms or more
7	B-input	0.7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75ohms
12		
13	Earth (R-input)	
14	Earth (blanking)	
15	R-input	0.7Vp-p/75ohms
16	Fast blanking	1V to 3V/75ohms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75ohms
20	Video input	1Vp-p/75ohms
21	Screening plug	

SAFETY-RELATED COMPONENT WARNING !!


COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

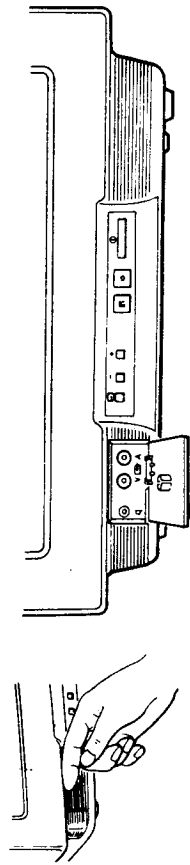
SECTION 1 GENERAL

1-1. INDEX OF THE PARTS

In the following you will find a short description of the parts and their function on the set or on the remote commander using the respective symbols. For more details refer to the page number given in the index.

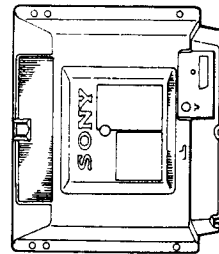
TV set

Front

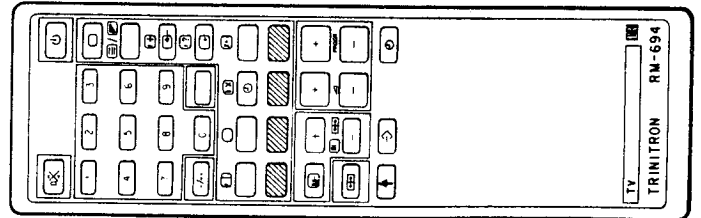


Pull to open
the panel

Rear



Remote Commander



Symbol	Function
	Headphones jack (mini-jack)
	Video Input jack
	Audio input jack
	Buttons for Sound and picture adjustment
	Programme scanning buttons
	Remote control detector
	Standby indicator
	Power switch
	Aerial socket (rear of the set)
	21-Pin connector (rear of the set)

Symbol	Function
	Mute button
1-9, 0, -/-/--	Number buttons — in case of two digit numbers first press button -/- and then two number buttons
	Button has no function
	Select button for picture adjustment item
+/-	Buttons for adjustment picture items
	Buttons for manual fine tuning of a channel
	Button for resetting the picture adjustment items to standard
C	Button for clearing a programme position (in preset mode)
	Functions only in combination with other buttons
	Preset mode on/off buttons
	Buttons for switching the TV set into standby mode
	Used to return to TV-mode from standby and video input modes
	Button for selecting the video input mode
	On/off button for onscreen display
	Time feature (only for KV-M1421U)
PROGR +/-	Programme scanning buttons
	Buttons for adjusting the volume
	Button for activating the sleep timer

Note Buttons not referred to in this index have no function.

1-2. TO PRESET CHANNELS

The control buttons to preset channels are located on the Remote Commander. (Up to 60 programme positions are at your disposal.)

- 1 Press the power switch on the set to switch it on.
- 2 Press both the \uparrow (shift) button and the \rightarrow (preset) button simultaneously. You are now in the preset mode.
- 3 Use either button PROGR + (upwards) or PROGR - (downwards) to select the required programme position.
- 4 Press both the \uparrow button and the \rightarrow + or - button repeatedly until the desired TV station is found.
- 5 Repeat steps 3 and 4 for all other channels.
- 6 Press once more both the \uparrow button and the \rightarrow (preset) button in order to return to the TV mode and to store the channels.

Skipping of programme positions

Using both the button C and the \uparrow button you have the possibility to skip unused programme positions (e.g. without a stored station) when pressing the PROGR +/- buttons.

- 1 Press both the \uparrow button and the \rightarrow (preset) button to select the preset mode.
- 2 Select the programme position to be skipped by pressing the + or - PROGR button.
- 3 Press the C button.
- 4 Press both the \rightarrow (preset) button and the \uparrow button to return to the TV mode.

Manual Fine Tuning

If the reception of a channel is not satisfactory you have the possibility to deactivate the Automatic Fine Tuning which usually tunes in the best possible picture during presetting.

Press both the \uparrow button and the \rightarrow + or - button to fine tune the channel. By pressing the respective programme number the automatic Fine Tuning will be restored.

1-3. DAILY USE OF THE TV

Your TV set is supposed to be operated with the Remote Commander, for the basic functions however it is also possible to use the buttons on the set itself.

Switching the set on

Press the power switch on the set to switch the TV on. If the set is switched on, the green indicator on the set lights up. If it is in standby mode the red indicator lights up (see also 'Standby mode').

Switching the set off

Press the power switch on the set to switch the TV off.

Selection of programmes

Press the respective number button 1, 2, ... 9 on the remote commander.

In the case of two digit numbers, first press button --/-- and then the two respective number buttons.

With the PROGR +/- buttons you can scan the programme positions (+ upwards, - downwards).

On the Set

Press the - button for lower programme positions and the + button for higher ones.

Standby mode

There are two possibilities to put the set into standby mode.

1. Directly

Press the button \rightarrow on the remote commander. The red indicator \rightarrow on the set lights up.

Note:

Use the standby button only for short breaks. If the set will not be used for a longer time span, use the power switch \rightarrow to switch the set off.

2. By using the sleep timer

Press the \rightarrow button repeatedly until the required time period is displayed on the screen (30, 60, 90 or 0 for cancelling of the operation).

In this way you can select the time period after which the set switches itself automatically into standby mode.

Switching the set on out of standby mode

Press the \rightarrow button or one of the number buttons on the remote commander.

On-screen display

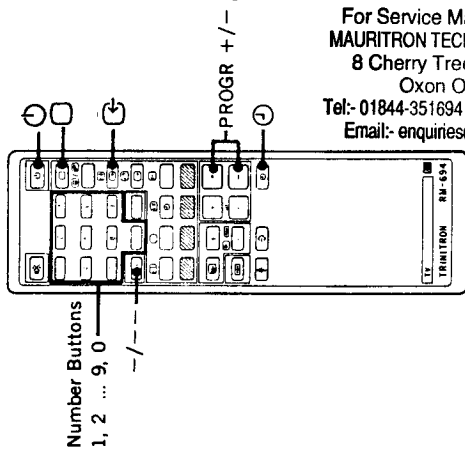
Press the \rightarrow button to display the programme number on the screen and press the button once more to make (only for KV-M1421U) it disappear.

Time feature

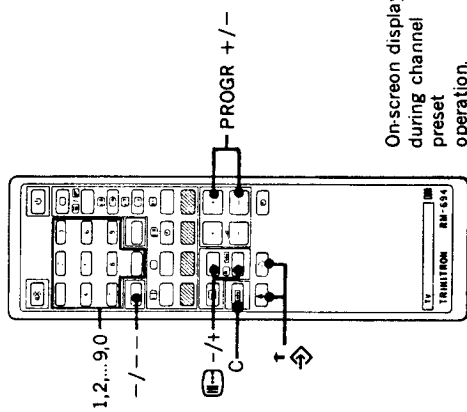
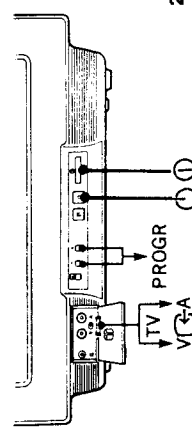
In TV-mode, if teletext is broadcast on the selected channel, press the button \rightarrow to display the current time.

Selecting the signal of the connected device

Press the \rightarrow button to receive the signal of the device (e.g. a video recorder) connected at the VGA connectors or the 21-pin connector (rear of the set). Press the \rightarrow button to return to the TV mode.



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On-screen display during channel preset operation.

Programme position flashes.

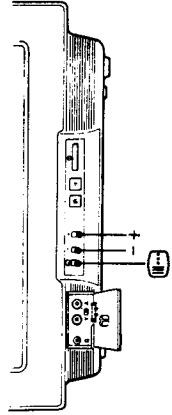
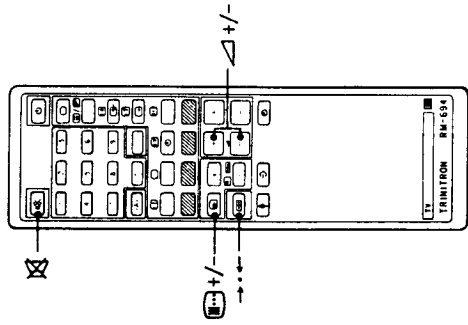
Indicates the approximate location in the band of the channel being tuned in.

Programme number stops flashing.

On-screen display after presetting.

1-4. PICTURE AND SOUND ADJUSTMENTS

- Volume**
 Press the button \blacktriangle + to increase the volume and the button \blacktriangledown - to decrease it.
- On the set**
 Press the M button until \blacktriangle is displayed on the screen and adjust the volume with the \blacktriangle or + button.
- Modification of the picture presettings**
 Press the M button on the commander to select either contrast C , colour intensity I , or brightness B (the respective indication is displayed on the screen). Adjust the settings by pressing the + or - button.
- To return to factory-set levels**
 Press the reset button $\rightarrow \cdot \leftarrow$ to return to the preset picture levels.
- On the set**
 Press the button M in order to select the requested item (contrast C , colour intensity I , brightness B), and adjust with the + or - button.
- Muting the sound**
 Press the M button to switch off the sound. Press the button again to restore the sound.



1-5. VIEWING TELETEXT (KV-M1411U only)

To view the teletext service, use the Remote Commander. RM-694 has teletext buttons indicated in green; teletext operation are indicated in green.

Operation
1 Select the TV channel for the desired teletext service.
2 Press M / M (TEXT / MIX) to display the teletext service.
Once M / M has been pressed, the TV channel cannot be changed.
3 Key in the three digits for the desired page using the number buttons. If an error is made, complete the three digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the Remote Commander.

The teletext service can be displayed directly from the standby mode, by pressing M / M .

To receive the teletext service of a different TV channel.

- Press TV to return to the TV mode.
- Select the desired TV channel.
- Press M / M .

- To enlarge the teletext display. Press M . Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display; press again to return to the normal display.
- To reveal concealed information such as the answers to a quiz Press M (REVEAL). Press again to conceal the answers.
- To adjust the contrast of the teletext display. Press M + or - button.
- To watch the TV program while waiting for a requested page to be displayed.
 - Request the new page.
 - Press M to watch the TV program. The requested page number appears at the top left of the screen. When the requested page has been found, the page number is displayed on the top left hand corner of the screen.



- To view this page, press M / M .
- To have a requested page displayed at a pre-determined time.
 - Request a time coded page (e. g. alarm page).
 - Press M (TP ON). "T****" will appear at the bottom of the screen.



- Enter your request time with the number buttons, using four digits. For example, 07:30.



- To watch the TV program until the requested time, press M . At the requested time, the page number will be displayed at the top of the screen.
- To view this page, press M / M .
- To cancel the request first, ensure that the teletext page is displayed, then press M (TP OFF).

- To display the index page. Press M (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.

- To access the next or preceding page. Press M (PAGE+) or M (PAGE-). These buttons are indicated in white on the Commander.

- To superimpose the teletext display on the TV picture. Press M / M twice from TV mode.
- Press M / M again to return to the TEXT display.

- To suppress the teletext display so that the TV picture is displayed. Press M (TEXT CL). This button can be operated from both the TEXT and MIX displays.

- To prevent a teletext page (subpage) from being updated / changed. Press M HOLD. The HOLD symbol H appears at the top left of the screen.



- To resume normal teletext reception, press M / M .