

Digital TV Receiver

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Packard Bell TCX170

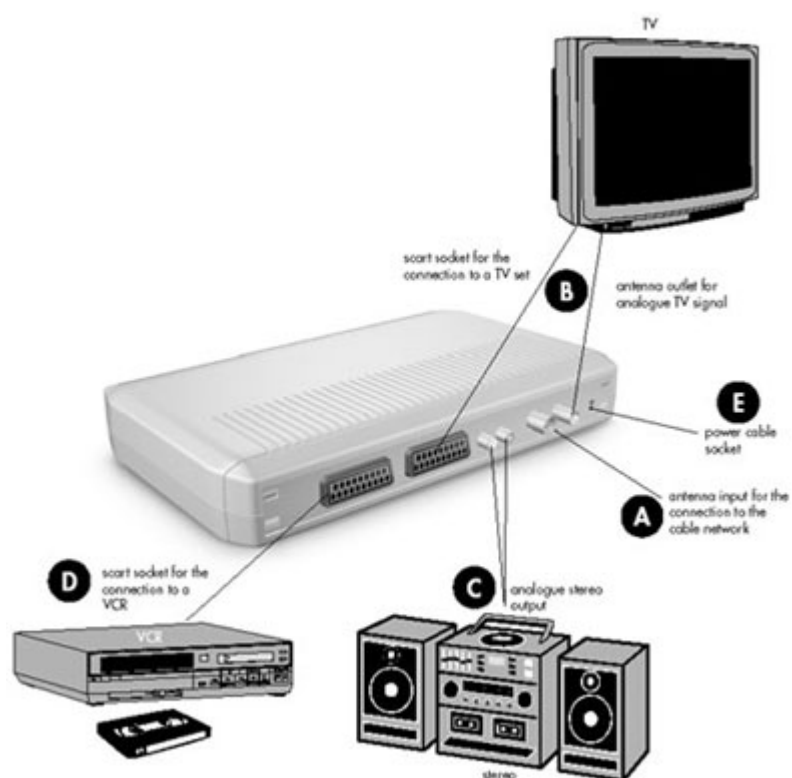
User Manual

This manual has been made by SystemTek with information from Packard Bell web site and from our own technical department. This is not the original manual that came with the product, but all the information you will need to setup and configure your Packard Bell TCX 170 will be found in here.

TCX-170 Digital TV Receiver installation and setup

In order to use your Packard Bell TCX-170 Digital TV Receiver, please follow the steps described below.

Setting up your set-top box



- A. **Connecting the antenna cable**
Please pay attention that the antenna cables which you use have to be suitable for the reception of terrestrial programs. Connect the antenna cable with the antenna and the antenna input of your digital receiver. Please ask your specialist what kind of antenna is best suitable for your area.
- B. **Connecting the TV set**
Using the included scart cable, connect the TV socket of the receiver with the AV input on your TV set.
- C. **Connecting the stereo**
You may listen to the audio of your digital TV and radio programs via your stereo. Connect with a cinch stereo cable the Audio L/R sockets of the receiver with the inputs of your stereo.
- D. **Connecting the VCR**
It is possible to connect your receiver to a VCR. With a scart cable connect the VCR socket of the receiver with the AV socket of the VCR.
- E. **Connecting the power supply unit**
Plug the power cord into the power socket of the receiver and then connect the power cord with the wall socket.

Notes:

- To prevent the build-up of heat in the receiver, leave enough space around it (at least 10 cm to each side). Place the receiver away from any source of heat, like heaters or direct sunlight. Never close the ventilation openings!
- Some connections mentioned in this guide require cables that are not included with your receiver.

Starting your TCX-170 Digital TV receiver for the first time

When the decoder is powered up for the first time, or is brought out of standby with no services, a welcome screen will be displayed. Please press the <OK> key on your remote control and a full frequency service scan will start.



This scan can take several minutes. When this operation is completed, all available services will be stored as channels, and your set-top box will be ready to use.

Setup Menu

The setup menu contains all options to set your preferences and technical settings of the TCX-170 Digital TV Receiver.

To open the setup menu, open the main menu and select the setup menu option with the *up/down* keys and press the *OK* key. Or you can simply press the *Setup* key and the setup menu will open.

Languages

In the languages menu you can set the default languages for subtitles, data services, audio and the general menu language.

Subtitles

Here you can select the default text language to be used for DBV subtitles. To set the subtitle language, open the language menu and select the subtitle option with the *up/down* keys. Select the desired language with the *left/right* keys. Press the *Exit* key to exit the menu.

Data Services

Here you can set the default text language to be used for MHEG data services. To set the data service language open the language menu and select the data service option with the *up/down* keys. Select the desired language with the *left/right* keys. Press the *Exit* key to exit the menu.

Audio

Here you can set the default audio language to be used on power-up and service change. To set the audio language open the language menu and select the audio option with the *up/down* keys. Select the desired language with the *left/right* keys. Press the *Exit* key to exit the menu.

On Screen Display (OSD)

Here you can set the default language for menus and off-air service information. To set the OSD language open the language menu and select the OSD option with the *up/down* keys. Select the desired language with the *left/right* keys. Press the *Exit* key to exit the menu.

TV Setup

In the TV setup menu you may set the TV output options. To call up the TV setup menu, open the setup menu and select the TV setup option with the *up/down* keys. Press the *OK* key and the TV setup menu will open.

- **Type**
Here you can select the TV format for your TV. Use the *up/down* keys to select the television type option. With the *left/right* keys you can select the TV format.
- **Widescreen**
If you have selected the 4:3 option for the TV format, you can determine how a program, broadcasted in 16:9 format, shall be displayed. Use the *up/down* keys to select the widescreen option. With the *left/right* keys you can select the display mode.
- **Standard**
To determine the colour output mode for the TV, use the *up/down* keys to select the standard option. With the *left/right* keys you can select RGB, S-VHS or CVBS.

Service Setup

With the service setup menu you can scan for new channels. To enter the menu open the setup menu and select service setup with the *up/down* keys, then press the *OK* key. You will be prompted to enter the PIN code with the number keys. After entering the code the service setup window will open. The current service list will be displayed.

- **Full Scan Add New Services**
To complete an automatic scan and add all new found channels, select the full scan add new services option with the *up/down* keys and press the *OK* key. The scan will start immediately. All new channels will be added at the end of the service list. A message at the bottom of the window will indicate how many services have been added to the list.

Please note: Do NOT turn off the receiver while scanning for new channels. Otherwise there might be malfunctions.
- **Full Scan Replace Existing Services**
If you select this option, the current service list will be deleted before the scan starts and a new list will be generated. Select the full scan replace existing services option with the *up/down* keys and press the *OK* key.
- **Manual Scan**
You can also perform a manual scan. To do so, select the manual scan option with the *up/down* keys and press the *OK* key. The manual scan window will open. The current channel can be viewed in the small preview window to the right. It can be changed by using the *CH+/CH-* keys. With the *up/down* keys select UHF Channel and select the desired channel with the *left/right* keys. The frequency will change accordingly. To change the frequency manually select Frequency (kHz) with the *up/down* keys and enter a new frequency with the *left/right* key. Move to the TxMode option with the *up/down* keys and select the required transmission mode with the *left/right* keys. To select the required guard interval move to Guard Interval with the *up/down* keys and select an interval with the *left/right* keys. With the *up/down* keys move to Scan and select start with the *left/right* keys. The manual scan will start. The level bar on the bottom of the window indicates how good or bad the received signal is (red=bad, yellow=medium, green=good). After the scan has been completed, the first of the newly added services will be shown in the preview window. If no new services have been added, the window will stay blank.
- **Full Scan Setup**
To set up the parameters for the full scan options select full scan setup. The *up/down* keys select the desired transmission mode and the *left/right* keys enable or disable the mode. Move to the

guard interval with the *up/down* keys and select the interval in the same way as the transmission mode.

Please note: When you change the frequency manually, the UHF Channel will change as well. The manual scan should only be performed by experienced users!

If the background scan function in your receiver is enabled a notify window will be displayed, when new services have been added or old ones have been deleted. The services will not be deleted from the channel list though. They will only be marked with an icon, so you may delete them when opening the service organiser.

To change to the next or previous channel of the currently selected favourites list - or the full service list if no favourites list has been selected - use the *CH+/CH-* key. Direct digit entry will tune to a service. As well as the current favourites list that is used/selected. You may scroll through information for other channels in the currently selected favourites list or the full service list, if a favourites list is not enabled. To do so, use the *up/down* keys.

Checking for Download

With this function you may check if new software is available for download while keeping the receiver running. To do so open the setup window and select the check for download option with the *up/down* keys and press the *OK* key. If no download is available a notification will be displayed on the screen. For further information on downloads please refer to [this document](#).

Technical Information

To get technical information regarding the device, the software and the modules open the setup menu, select technical information with the *up/down* keys and press the *OK* key. The technical information window will open and you can get the hard- and software version number.

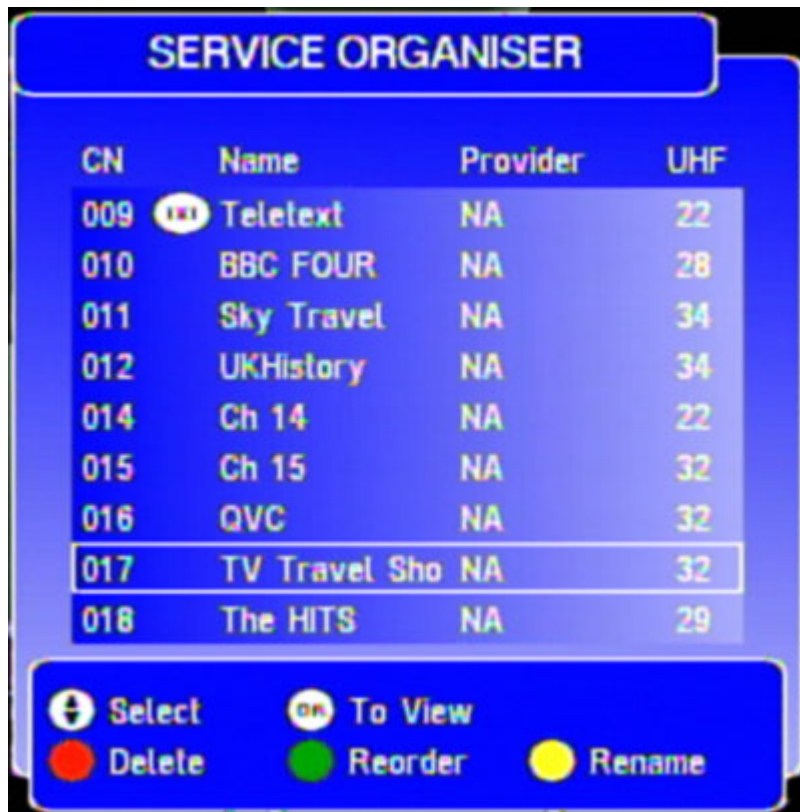
Advanced features of the TCX-170 Digital TV Receiver

Almost all advanced functions of the TCX-170 Digital TV Receiver can be accessed from the main menu. In this menu you can, for example, change the order of the channels, create favourites or set a timer. To call up the main menu press the *Navigator* key.

The basic menu will appear. You now have several submenus to select from. To do so use the *up/down* keys and press the *OK* key. Entries will be saved when executed and after you leave the menu. For some entries you will have to press a certain key to save them. It will be indicated on the screen when this is the case and which key you then have to press. Use the *Navigator* key again to leave the menu and abort the selected changes if they have not yet been saved. To leave the menu completely, press the *Exit* button.

Service Organiser

The service organiser is a complete list of all saved channels. It can be edited. You may delete or sort the list or edit a channel name. To open the service organiser press the *Navigator* key and select the Service Organiser option with the *up/down* keys. Press the *OK* key and the service organiser will open. To exit the service organiser press the *Exit* key. The menu will automatically close after a certain time if no keys are pressed. To select a channel use the *up/down* keys. A white border will surround the selected channel. In order to tune to a channel out of the service organiser select a channel with the *up/down* keys and press the *OK* key. The receiver will tune to the selected channel and close the menu completely.



To resort the list select a channel with the *up/down* keys and press the *green key*. With the *up/down* keys move the channel to its new position. Press the *OK* key to save the new position or the *green key* to cancel the changes. To rename a channel select the desired channel with the *up/down* keys and press the *yellow key*. An edit window displaying all letters, numbers and a few special characters will open. Please refer to section 11.3 Name Editor, page 17 in order to learn how to work with the edit window. The edit window will close and the new name will appear in the opened channel list when the new name has been entered and saved. To cancel the name change press the *yellow key*. To delete a channel select a channel with the *up/down* keys and then press the *red key*. A new window will open and you will have to enter the four digit PIN. Please use the number keys to do so. This is to prevent the deletion of a service without parental permission. To delete the channel definitively press the *red key* again.

Please note: It is only possible to cancel the name change as long as the new name has not been saved. If you have already saved the new name you will have to repeat the rename process to get the old channel name.

Please note:

- An icon will be displayed if a service has been added or removed by the broadcaster or if it is temporarily unavailable.
- The default PIN code is "0000".

Favourites

You may create several favourite lists, e.g. for every person in the family or different kinds of services like "news", "sports" or "movies". In other words, it will group together your favorite channels in one list. Once this list is selected with the favourite key of the remote control, the *CH+* and *CH-* keys will only display channels which are in this list. The favourites menu can be found in the Main menu. To create a new favourites list press the *green key*. A new list will be created and added to the list of favourites. The default name of the new list will be Favourite List #X. You can edit the list and change its name.

Editing favourites

To edit a new or already existing favourite list, select the list from the available favourites within the favourite window by using the *up/down* keys. After that press the *yellow key* to open the edit favourites window. Here you will see two lists: The general service list on the left (this is the active list) and the favourite list to be edited on the right. With the *up/down* keys you can select the channels to be added to the favourite list. If you have selected a channel press the *OK* key and the respective channel will be added to the favourite list. Do so for every channel you want to add. To rename the favourite list press the *right arrow* key and the favourite list will be active. Press the *yellow key* and the edit window will open. To resort the programs of the favourite list, select the channel to be moved, with the *up/down* keys and press the *green key*. Then move to the new position for the respective channel and press the *OK* key to save the new position of the channel. Do so for every channel you want to move.

Please note: The keys to use will change their functions when switching lists!

Name Editor



If you want to change the name of a service or a favourite list for example this name editor window will open. To delete the old name move to the delete field using the *up/down* and *left/right* keys. Press the *OK* key as many times as the old name has letters and/or numbers. To write a new name, move to the first letter, number or sign of the new name with the *up/down* keys and press the *OK* key. Do so for every further letter, number or sign of the new name. When the new name has been completed, press the *green* key in order save the new name.

Timer

When the timer has been programmed your receiver will turn on and off at a certain time, e.g. to record a program with your VCR.

To enter the timer programming menu open the main menu. With the *Up* and *Down* keys move to the timer programming option and press the *OK* key.



Entering Details

When the Timer screen opens you will have to enter the details of the programming. Please use the *up/down* keys to navigate through the menu. Move to the CN option and enter the channel number with the number keys (three digits). Move to the date option and enter the date of the programming with the number keys. Move to the time option and enter the starting time of the programming with the number keys. Move to the duration option and enter the length of the programming with the number keys.

Please note: The entry format for time and duration is HH:MM

Move to the repeat option and with the *left/right* keys select if the programming shall be repeated weekly, daily, Mon-Fri, Mon-Sat or if it shall not be repeated. Move to the subtitles option and select with the *left/right* keys if the subtitles shall be recorded according to the settings of the languages menu. To store your settings press the *OK* key. The entries will be taken over into the timer menu.

Changing Settings

In order to change the timer settings, open the main menu, select the timer programming option and select the setting you want to change with the *up/down* keys. Enter the new data as described above. To store your settings press the *OK* key.

Deleting Settings

In order to delete a setting, open the main menu, select the timer programming option and select the setting to be deleted. Press the *red* key and the setting will be deleted.

Reminder Notification

If you have set a reminder for a certain event, a reminder information will pop up on your screen shortly before the event will start. It will automatically be removed after a few seconds.

Parental control

This function enables you to block certain channels with a PIN or set the age level for viewing restrictions. If you select a channel that is locked, you will be prompted to enter the PIN. To do so, use the number keys. If you have entered the correct PIN, the channel will be unlocked. Upon changing the channel and selecting a locked channel again you will have to enter the PIN again. The channels will remain unlocked until the device is turned off.

To access the parental control menu, open the setup menu, select the parental control option with the *up/down* keys and press the *OK* key. You will be prompted to enter the PIN code, to do so please use the number keys. Upon entering the valid PIN the parental control menu will open. Here you have the options to set a locking age level or to change the PIN number. To set an age level, select the censorship option with the *up/down* keys. With the left/right keys you can now select the age level or all ages. If you select OFF, no channels will be blocked. To change the PIN code select the change PIN option with the *up/down* keys and press the *OK* key. A new window will open and you will be prompted to enter a new PIN and confirm that PIN. To do so please use the number keys. To lock or unlock certain channels select the lock/unlock services option with the *up/down* keys and press the *OK* key. The channel list will open. Use the *up/down* keys to select a channel and press the *OK* key to lock/unlock that channel.



Parental control on timer events

When you select a programmed event within the timer menu and the items are validated successfully, the TV will check if censorship is enabled or if the channel is parentally locked. In both cases you will be asked to enter the PIN number with the number keys. This will remove viewing restrictions for the duration of the programming. In the programming menu a PIN icon will be displayed at the end of the programming line when a valid PIN has been entered.

In case the channel has been parentally locked:

- If the PIN has not been entered before the menu is timed out or if it is cancelled the event will NOT be added to the timer programming list and the display will return to the enter details menu. In case the censorship level has been set above no-block: If the PIN has not been entered before the menu is timed out or if it is skipped, the event will still be added to the programming list. The restrictions will apply to the event depending on its censorship level. The programming will still be added since the censorship level is not known at the time of the programming.
- If the PIN was not entered during the timer programming or skipped and a restriction applies, the sound and picture will be muted and a banner will appear on the screen which tells you that the channel is parentally locked or the censorship value of the event is higher than the set censorship level.
- If a channel has been locked after the programming took place no PIN has been entered. Therefore a restriction will apply.

Using the TCX-170 Digital TV Receiver

The receiver is completely operated using the remote control and the On-Screen Display (OSD). As Digital Television allows for more information to be transmitted, a number of functions are available that did not exist for "normal" analogue TV. Most functions, however, will be familiar.

Changing Channels and Obtaining Programme Information

Like a normal TV-set, using the Channel *Up / Down* buttons on your remote control will allow you to navigate through the channels. However, a banner with program information will be shown on your screen.



This banner will time out after four seconds. It is also possible to select the desired channel directly, using the numeric buttons on the remote control. To switch automatically to a new channel by using the number keys on your remote control, you have to enter 3 digits. Example:

- For channel position 3 enter: 0 + 0 + 3
- For channel position 34 enter: 0 + 3 + 4
- For channel position 345 enter: 3 + 4 + 5

It is possible to force the receiver to tune to the new channel before the three digits have been entered. In order to do so, press the *OK* key after entering the channel numbers. Example:

- For channel position 3: enter 3 + *OK*
- For channel position 34 enter 3 + 4 + *OK*

When viewing a digital program the information banner, shown above, can be brought *Up* by pressing the *Info* key. The time, channel number, channel name and "Now" program information will be shown. It is possible to switch between information on what is on "Now" and what is on "Next". To do so, please press the *left arrow/right arrow* key. Use the *right arrow* key to get to "Next", use the *left arrow* key to get back to "Now".

If you press the *Info* key again, the extended program information will be opened.






This screen will show more information on the currently broadcasted program, as well as the next program on that same channel.

You may scroll through information for other channels in the currently selected favourites list or the full service list (in case no favourites list is enabled). To do so, use the *Up/Down* keys. Whilst information for other channels is displayed the actual channel being viewed will not change. You can switch to the new channel by pressing the *OK* key. When the channel has been changed the banner will stay visible for four seconds.

If you press the *Info* key again, the information banner will be faded out.



Within the banner several icons may appear. Those give information about the displayed event:

-  DVB subtitles are available for this event.
-  An MHEG application is available for this event.
-  This event is encrypted.

So with these icons you can easily see if there are additional services available.

There are three additional icons which will notify you of a new service added by the broadcaster, or if the service is temporarily unavailable. If the service has been removed you have the choice of deleting the service from your system. This icon will show next to the icon for subtitling, and will display the text "NEW", "N/A" or "DEL".

If the service is audio or data only and none of the above is displayed, you will see one of the following:

-  Service is data/text only.
-  Service is audio only.

Electronic Programme Guide (EPG)

Many digital programmes provide additional information. Therefore your receiver is able to get program information for the next few days, as long as this data is provided by the broadcaster.

Press the *EPG* key in order to open the Electronic Programme Guide. In the opening window the time, date, the current broadcast with extended information and a small TV picture in the *Upper* part will be displayed.



In the lower part of the window the TV list is displayed with the channel name and number, starting time and title of the broadcast. Several icons might be visible which show for example if a broadcast has a reminder, is audio or has been newly added.

To tune to a new channel please use the *Up/Down* keys and press the *OK* key once. You have now selected a channel. To view the program only in the preview window press the yellow key. To scroll through the channel list please use the *Up/Down* keys.

To view the following (NEXT) broadcasts for the displayed channels please use the *right arrow* key. To get back to the current (NOW) broadcasts use the *left arrow* key. You may add a reminder for a certain event by pressing the *green* key when the event is selected.

Changing Volume

You can adjust the volume by pressing the *vol +/vol -* key. When adjusting the volume a volume bar will appear on the screen. The bar will disappear a short time after the last *vol +/vol -* key press.

Please note that the volume setting will only work on the device connected to the TV-scart, and not on the device connected to the VCR-scart!


By pressing the *mute* key on the remote control, the sound will be muted. A symbol will be displayed on the screen. It will automatically be removed after two seconds.

Subtitles and Language

Some programs are transmitted in several languages. To select the desired language press the *Sound* key. The upcoming menu displays all the audio streams available on the current service. To select a language, use the *Up/Down* keys. To select between stereo and mono, use the *left arrow /right arrow* keys. Pressing the *OK* key selects the new audio. The selection is only valid until power *Down* or service change. The window will be automatically removed after five seconds.

Pressing the *subtitle* key will display the subtitle menu. This menu displays all subtitles available on the current service and a "subtitle off" option. Please use the *Up/Down* keys to select a subtitle language. Pressing the *OK* key selects the new language. This selection is only valid until power-down or service change. Enhanced subtitles are indicated by an icon in this menu. The display will be automatically removed after five seconds.

Time and Date

Pressing the  key displays the time and date information in the top right corner of the screen. The display will time-out after five seconds. If no time and date are available you will see only dashes instead of the time and date.

Updating the software of the TCX-170 Digital TV Receiver

Upgrading the software on the TCX-170 Digital TV Receiver is a largely automatic process. The updated software will be broadcasted over air, just like the other services. The receiver will indicate when an update is made available.

Over Air Download

This menu will be displayed when a new "over-air" download is detected. This can happen either after power-up or after manually checking for a download in the **setup menu**.

You may select whether you would like to perform the download now or at a later point of time. In the latter case the information will automatically be added to the timer programming table. Some downloads are performed automatically. This is the case when the manufacturer declares the download to be high priority. The download will start upon detection, or when the receiver is started out of stand-by mode. While downloading the new software the manufacturer might send important messages for you. These messages will be displayed in the download window.

Also a progress bar will be displayed. It shows how much of the download has been performed already. Once all data have been transferred to the receiver, it will program itself.

- **Warning!** Do not turn off the receiver while it is reprogramming itself! Otherwise your device will be severely damaged!

A message will be displayed on your screen to let you know when it will be safe to switch the receiver off again. After the download has been completed the receiver will automatically restart. After the restart a message window will open which tells you if the download was successful, what new features are available or any other important information about the new software.

Please note: If the information cannot be added, you may refuse to download now by pressing the *Exit* key. However, the download may be redetected and the download information may pop up again after power up. To start the download manually, select to check for a download from the setup menu. When the window (announcing the new download) opens, move to download now or download later with the *up/down* keys. Press the *OK* key to start the download.

Spare Parts

SystemTek are able to supply spare parts for the Packard Bell TCX-170, such as replacement remote controls. We also offer a repair service for this model.

For more information please visit www.systemtek.co.uk or e-mail your request to sales@systemtek.co.uk