

## **Information Sheet**

### **Possum PRIMO** **Set-up Instructions and** **Application Notes.** **(inc. TSPHone Control)**

### **Home Environment Control with the PRIMO**

The PRIMO can be programmed to remotely operate virtually everything electrical in your home with one neat small switch accessible unit – BUT HOW DOES IT WORK? Once the Primo has been programmed, the user can ‘drive’ it by directly pressing the touch screen or by using one of our special of external switches.



### **Setup –**

The PRIMO user Manual has over 60 pages of information describing the setup procedure including Primo’s many and varied clever functions. However, it may not be obvious to the uninitiated just how to get started. These ‘Application Notes’ give simple step by step instructions and examples of how to set up your PRIMO as well as a few clever tricks our clients have found useful. For the purpose of these notes, it is assumed that the user is accessing the PRIMO with a single switch. To make the task of setting up your new environment control system easier we may have made some or all of the following adjustments to the PRIMO settings before sending it to you. If you wish to change these settings, please consult these pages and the relevant section of the Primo MANUAL.



### **Connecting the Battery**

Normally primo is despatched with the battery disconnected for transportation. The Primo must be opened to connect the lead from the internal battery pack. See Primo Manual for battery connection instructions.

### **Initial charging**

A Primo unit may not power up unless the battery is recently and fully charged. It will usually be necessary to charge initially for 10 – 30 minutes for Primo to run for a short time on any battery power. This only happens when a battery is first connected or if the battery is exhausted and has not been charged for several days. If Primo battery is very flat charging will take a long time as the charge current initially will be limited for safety reasons until Primo sees the battery as a good battery - during this trickle charge state primo will indicate a ‘hollow’ battery symbol on the top display.

### **Programming – Modifying Settings**

Primo provides two levels of access to programming, each is pass word protected

1. Engineer Programming (program mode)
  - a. Press Program button for 3 seconds twice
  - b. Enter code 27076. and press the ‘Tick’  
This Gives full programming capabilities such as programming the buttons
  
2. Accessing CARER Setup (setup mode)
  - a. Press Setup button for 3 seconds
  - b. If PIN enabled, Enter code 45107 and press the ‘Tick’  
This gives limited access to settings such as Display Brightness, Scan Speed, etc.  
See PROGRAMMING PRIMO! - **P. 10**



### **Setting up Pages**

Each Primo page has 14 square buttons. Each button can be edited to change the symbol, the text label and the ‘action’ (when the button is pressed). Buttons on the ‘Home Page’ are used to link to Sub-Menus for each appliance

that you wish to control. Technical Solutions usually ship the Primo with a set of buttons for commonly used appliances including: Phone, Call Buzzer, TV, STB, DVD, Bed Control, HiFi, Door Opener, etc.

1. **Start by making a list of devices** you want to control and comparing this to the pre-loaded buttons on Primo.
2. **You can then delete any buttons for devices that you do not need as follows:**  
(e.g if you do not have a bed controller, clear the bed button)
  - a. Enter Program mode then press PB-A
  - b. Press the button that you want to delete and choose **Clear** to clear the button and save
3. **Now if necessary make NEW buttons** on the home page for any appliances not already available.  
(eg. If you have a second TV, create a new button called **TV2**)
  - a. Enter Program mode then press PB-A
  - b. Choose and press the vacant button that you want to edit and
  - c. Choose a Label and Symbol for the button  
See: Assigning Button Attributes – **P.16**
  - d. Next Press the **action** button and use template (**tplate** button) in the **Actions** list to create a sub-menu page for each new button. E.g. choose TV menu template and press the **return** button and finally the **save** button. See: Assigning Button Actions – **P.18**
4. **Renaming, Adding or Deleting Buttons** – The menus for each device may not have the exact set of buttons you desire for your needs. To allow the PRIMO to control your appliances you must:
  - a. Decide which buttons on the remote you wish to access (power, channel, volume, etc.)
  - b. Make sure the PRIMO menu has a button labelled for each command
  - c. Go to the menu that you just created (eg. The TV menu) and press PB-A
  - d. Now you can add, re-name or clear any or all of the buttons to suit your TV etc

**NOTE: Lounge Button.**

For users that want to control more than 14 devices, this button opens a whole new page where more devices can be added. eg. Use the main Home page for the bedroom and the Lounge page for the living room etc.

### Default Buttons on the PRIMO

- The first three buttons control the phone, see page 6 below
- The **Help** button can be programmed to activate a local call buzzer, pager or monitored personal alarm service
- There are menus to control your TV, DVD and HiFi system. Infrared signals from your remote controls must be recorded into these buttons
- The **FOX** button opens a menu of pre-programmed buttons to control Foxtel – This menu can also be re-programmed to suit other set top Boxes or a second TV. Especially suits TVs with hard drive recorder
- The buttons for door, Air, Bed and X10 can remotely control motorised a doors, air conditioners, motorised beds and X10 lighting control systems (suitable interfaces required for these functions)
- The final Bright button adjusts the Primo display brightness



### Learning Infrared (Teaching the PRIMO to work Your TV etc)

Firstly make sure that the buttons on each sub-menu created above are ready for you to store infrared codes from your original remote controls – your TV, VCR, etc.

Read: Capturing Infra Red Signals from other Remotes – P.27

1. Choose the menu which is to be programmed. Eg. TV menu.
2. Press PB-A, then the button you wish to train. Eg. Mute button
3. Press 'Action' then press 'Capt'. To capture infrared signals
4. point TV remote at top edge of the back of the PRIMO and press the MUTE button
5. Press 'Save', Re-label if desired, then press the 'return' button and finally 'Save'
6. Repeat steps 2-5 to program all required buttons
7. To exit programming mode, return to main menu then press the recessed 'Program' button

## Setting up pages to control your TV or set top box

The 'old days' we only had 5 TV channels so it was a simple matter of creating a channel up and down button to scroll through them. In this age of 'Free View' and 'Pay TV', people often want to access many channels and this may be a tedious process when using switch scanning. The following section describes how to set up buttons that will tune the TV to any channel with one touch. Or scroll buttons to navigate channel lists and on screen program guides. Primo has two channel storage templates - **TV1** and **Box (TV2)**. These can be used for two TVs or one TV and one Set Top Box. If you have a TV with a built in Hard Drive Recorder and do not have a Set Top Box, It may be preferable to use the **Box (TV2) Setup template** then rename the **Fox** button on the main menu and use this for your TV as this menu has record and play buttons.

## Adding Digital TV Channel digits 0-9

Firstly make use of the **TV1 Setup template** in Engineer system mode to capture IR codes for the digits 0-9. It is then a simple process to create a great number of TV channel buttons.

1. Enter Engineer Programming (program mode) and from the top menu (home page)
2. Press PB-B to open the engineer setup menu
3. Press the 'TV' button to open the TV1 setup template  
This gives a page with the digits 0 – 9
4. Press PB-A to go to button editing
5. Now capture IR from each key (0-9) from your TV remote to the relevant buttons in the template

## Adding Channel digits 0-9 for a TV with hard drive recorder, or Set Top Box

Note that Foxtel infrared (IR) codes are pre-recorded into the Primo so **Foxtel users can skip steps 6-10.**

Firstly make use of the **Box (TV2) Setup template** in Engineer system mode to capture IR codes for the digits 0-9. It is then a simple process to create a great number of Box channel buttons.

6. Enter Engineer Programming (program mode) and from the top menu (home page)
7. Press PB-B to open the engineer setup menu
8. Press the '**Box**' button to open the **Box (TV2) Setup template**  
This gives a page with the digits 0 – 9
9. Press PB-A to go to button editing
10. Now capture IR from each key (0-9) from your Foxtel remote to the relevant buttons in the template



## Programming the buttons in the TV menu

11. The buttons on the Favourites Page have 13 commonly used channels pre-programmed – any of these can be changed to your desired channels
  - a. Enter Engineer Programming (program mode) and Press **PB-A**, then the button you wish to train.
  - b. Press **Action** then press **tv.ch1 123** followed by the 1, 2 or 3 digits of the channel you want.  
e.g for SBS2, press **3, 2, send**  
(See page 33, **TV channel Action**)
  - c. Press **label** if you want to re-label the button then **Save**
12. Learn infrared signals into the Volume up, down and mute buttons – NOTE that here you may prefer to learn IR for the TV volume rather than the Box volume
13. Once the IR codes for digits 0-9 have been recorded, Ch.Pad (channel Pad) page should require no further programming
14. Learn IR the Power button and any required buttons on the More (TV Extras) page
15. You can add up to four extra buttons on this page if needed



## **Programming the buttons in the Fox menu**

NOTE non-Foxtel users can relabel this menu button as **TV** or **Box**  
The buttons on the Favourites Page have 9 commonly used channels pre-programmed – any of these can be changed to your desired channels and you can add more.

- d. Enter Engineer Programming (program mode) and Press **PB-A**, then the button you wish to train.
  - e. Press **Action** then press **bx.ch1 123** followed by the 1, 2 or 3 digits of the channel you want.  
e.g for Movie Channel **401**, press **4, 0, 1, send**  
(See page 37, **Box channel Action**)
  - f. Press **label** if you want to re-label the button then **Save**
16. NOTE that the favourite buttons and the buttons on the, **Ch.Pad** (channel Pad) page will not work till IR codes for digits 0-9 have been recorded into the **Box (TV2) Setup template** - see steps 6-10
17. Learn infrared signals into the Volume up, down and mute buttons – NOTE that here you may prefer to learn IR for the TV remote so as to control the TV volume rather than the Box volume
18. The red, green and yellow buttons suit Foxtel and may be deleted if not required
19. Learn IR for the Power button and any buttons you require on the More (Box Extras) page



# **Customise Your Primo**

## **Carer Setup- User Settings**

Enter Carer setup mode. See page 1/ above or PROGRAMMING PRIMO! - *P. 10*

### **Scanning Speed:**

This adjusts the rate at which PRIMO steps through the buttons when accessed by a single switch user. It is typically best to set this at a slow speed till the user becomes proficient at using PRIMO. After some practice the user may prefer to speed up the scan rate.

### **Scanning Beep Volume:**

This adjusts how loud the beeps are.

### **Display Sleep Time:**

This adjusts time before the screen turns off after each use – a shorter time saves power.

### **Display Brightness and day/night mode:**

This adjusts the brightness of the screen.

## **Engineer Settings**

Enter Program mode. See page 1/ above or PROGRAMMING PRIMO! - *P. 10*

1. While in program mode, go to main menu (home page)  
Press PB-B to display 'Engineer Options' (*Engineer Settings - P. 68*)
2. Press 'Setgs' button
3. This will display the settings list

From this list of settings you may want to change the way PRIMO works to best suit the user.

### **Here are some settings to consider:**

#### **Scan Mode**

Type1: Single switch momentary (automatic) scanning

Type2: Single switch Hold to scan, release to select

Type3: Two switch scanning

#### **Input deb. Time (Switch Intention Delay)**

It is usually advisable to set a small intention delay (We recommend that this be to 0.1 seconds). This means that if your user switch is accidentally bumped briefly, the PRIMO will not start scanning.

#### **Input release Time & Anti-tremble filter**

If your client has more severe erratic movements that cause unintentional switch activations, you can increase the intention delay (above) or experiment with increasing the Input release Time & Anti-tremble filter settings.

#### **Touch Screen Behaviour**

The settings: **Anti-tremble filter**, **T.S. as a keyboard**, **T.S. deb. Time** and **T.S. tremble** all effect the touch screen behaviour.

# Controlling a TSPhone with the PRIMO

The PRIMO can be programmed by Technical Solutions with a set of pages to give extensive control of the TSPhone as follows.

## ***TSPhone Control- Description Functions***

### **Home Page**

1. **Answer** and **Hang Up** buttons allow for easy control of incoming calls
2. The **Phone** button opens a menu of other phone functions



### **Telephone Menu Page**

1. **Answer** button
2. **Hang Up** button
3. Primo has a built in Phone Book up with 30 names and numbers. The **Primo Book** button opens a menu for adding, editing and dialling entries in the Primo Phone Book
4. **Dial** button opens a menu for dialling any phone number, one digit at a time
5. **Mem Buttons** – speed dial buttons for dialling from the 20 memories (**Mem1** to **Mem20**) in the **TSPhone Controller** – NOTE that the phone numbers must be stored in the **TSPhone Controller**; they are NOT the Primo Phone Book entries above. See TSPhone Controller manual.



## **Storing Phone Numbers**

Phone numbers can be stored in both the **Primo** and the **TSPhone Controller** as follows:

### **Primo Phone Book**

- The Primo has a capacity to store up to 30 names and numbers. These can be added, edited or deleted by the user. *Primo manual Page 59*

### **TSPhone Controller Phone Book**

- Up to 20 phone numbers can be stored in the **TSPhone Controller**. See TSPhone Controller manual.
- The 20 memory buttons (**Mem1** to **Mem20**) in the **Primo** can then be edited and re-labelled with the name of each contact (person)