

Welcome to the new Possum Sero!

The new Possum Sero provides, for the first time, a loud speaking, remote control telephone and answering machine with communication aid functions. The Sero can be operated via the full range of Possum, GEWA and many other Environmental Controllers and Communication Aids.

Basic Phone Setup

1. Carefully follow the HC2006 Sero Telephone Installation A Fitting Instructions to:
 - a. Fit batteries – if they have not been installed
 - b. Fit cords and power supply
 - c. Install wall mount if required
2. Use the enclosed Sero Phone Setup Sheet
(or download the full Sero user manual from <http://www.tecsol.com.au/Manuals.htm>) to:
 - a. Learn about basic phone operation
 - b. Set the clock
3. See Entering Phone Setup Mode as well as Appendix – Sero Phone Functionality Table and set up phone options as required:
 - a. Phone book and Answering machine
 - b. SOS Emergency Dialing
 - c. Phrases
 - d. Enable Headset, and other user settings as required

Entering Phone Setup Mode

There are many options for IR control of the Sero by Possum Primo and the Gewa PROG range of environment controllers. Many other ECUs can also be used.

The options for setting up the Sero IR operation are found phone ‘engineer setup’ menu:

1. With the phone idle press #27076# on the keypad
(this is the master password for access to all settings)
2. Then press the setup key (spanner symbol)

Setup with Possum Primo ECU

The Sero comes from the factory ready to work with Primo.

With Primo! version 1.05 onwards, setting the Primo! to **phone type 2** will give correct operation for all built in phone menus and templates including quick dials, phonebook, tone & dial keypads as well as “p.func” actions

Follow **Telephone Control** - Page 54 of the Primo Programming Manual

<http://www.tecsol.com.au/Manuals.htm>

INTERFERENCE WITH BED CONTROLLER & other GEWA DEVICES:

Your Sero Phone may inadvertently respond to Gewa Codes that you wish to use for other devices – eg. SERO dials when you adjust your bed. To stop SERO responding to GEWA Codes:

Set **Gewa Start Channel = 1** and set **Gewa End Channel = 0**

See **Three settings that must be set in Sero** on next page

Setup Sero to work with Gewa PROG ECUs

See Using Gewalink IR codes: page 64 Sero user manual <http://www.tecsol.com.au/Manuals.htm>

The Sero can be set to operate from a Gewa IR transmitter or by any other IR transmitter which can send Gewalink IR signals.

The table (Appendix 1) lists three alternative options for Sero setup to work with a Gewa PROG:

Alternative 1 works with Gewa Level 1 (TSA Default: these codes copied to level 6)

Three settings that must be set in Sero: Gewa Start Ch, Gewa Stop Ch & Gewa Start Function

1. With the phone idle, press #27076# Then press the setup key (spanner symbol)
2. Use +/- to choose the “Eng. Use Only” group then press the ✓ (enter) key to select the group
3. **TSA Default Settings: (only responds to PROG level 1 defaults)**
4. Use +/- to choose **Gewa Start Channel** then press the ✓ (enter) key to edit and set
 - **Gewa Start Channel** - 0 (use the – button to delete any wrong digits)
5. Use +/- to choose **Gewa End Channel** then press the ✓ (enter) key to edit and set
 - **Gewa End Channel** - 12 (set to 27 for PROG levels 1 &2)
6. Use +/- to choose **Gewa Start Function** then press the ✓ (enter) key to edit and set
 - **Gewa Start Function** - 32 (use keypad & – button to delete any wrong digits)
7. Finally press **Setup** to end and exit setup menu

Gewa Control PROG Settings

- The following table shows a combination of Gewa Codes and Possum Codes that allow extensive control of the Sero Phone.
Gewalink Codes coloured BLUE have been copied from the Gewa level 1 defaults (NOT Level 6 defaults).
- In order for the Sero to respond to these Gewa codes, the Sero phone must be set up as described above.
- Level 1 key [A] has (can be) copied to all other levels to speed up the answering of incoming calls. If the SOS function is to be used, level 5 button [1] can also be copied to all levels or copied to the [!] key

PROG Level 6 (Level 1)	SERO Function	PROG Level 7	SERO Function	PROG Level 8	SERO Function
1	Digit 1	1	Dial Mem 1	1	Dial Mem 11
2	Digit 2	2	Dial Mem 2	2	Dial Mem 12
3	Digit 3	3	Dial Mem 3	3	Dial Mem 13
4	Digit 4	4	Dial Mem 4	4	Dial Mem 14
5	Digit 5	5	Dial Mem 5	5	Dial Mem 15
6	Digit 6	6	Dial Mem 6	6	Dial Mem 16
7	Digit 7	7	Dial Mem 7	7	Dial Mem 17
8	Digit 8	8	Dial Mem 8	8	Dial Mem 18
9	Digit 9	9	Dial Mem 9	9	Dial Mem 19
0	Digit 0	0	Dial Mem 10	0	Dial Mem 20
*	Digit *	*	Volume -	*	Volume -
#	Digit #	#	Volume +	#	Volume +
A	Dial/Hang Up	A	Dial/Hang Up	A	Dial/Hang Up
B	Toggle H'Free	B	Toggle H'Free	B	Toggle H'Free
C	Cancel	C	Cancel	C	Cancel
D	Toggle Headset	D	Toggle Headset	D	Toggle Headset

PROG Level 5	SERO Function	PROG Level 11	SERO Function	PROG Level 12	SERO Function
1	SOS Help Call	1	Phrase 11	1	Phrase 21
2	Phrase 2	2	Phrase 12	2	Phrase 22
3	Phrase 3	3	Phrase 13	3	Phrase 23
4	Phrase 4	4	Phrase 14	4	Phrase 24
5	Phrase 5	5	Phrase 15	5	Phrase 25
6	Phrase 6	6	Phrase 16	6	Phrase 26
7	Phrase 7	7	Phrase 17	7	Phrase 27
8	Phrase 8	8	Phrase 18	8	Phrase 28
9	Phrase 9	9	Phrase 19	9	Phrase 29
0	Phrase 10	0	Phrase 20	0	Phrase 30
*	Volume -	*	Volume -	*	Phrase 31
#	Volume +	#	Volume +	#	Phrase 32
A	Dial/Hang Up	A	Dial/Hang Up	A	Dial/Hang Up
B	Ans. Mach. Play	B		B	Phrase 33
C	Answer Machine ON/OFF	C		C	Phrase 49
D		D		D	

Set up the Control PROG
with Possum Codes to work the SERO Phone

The Possum codes, shown in the above table, can be loaded into the PROG by Technical Solutions - users with a PROG USB computer interface cable can download the backup data file, control tool software and instructions from the Technical Solutions web site – see:

<http://www.tecsol.com.au/downloads/TSA-ControlPROG-SERO-Levels5,6,7,8,11,12.gewacontroltool.xml>

<http://www.tecsol.com.au/downloads/GEWAcontroltool118.zip>

<http://www.tecsol.com.au/pdfs/GewaControlTool-Instructions.pdf>

IMPORTANT NOTES:

- With this setup, the SERO will respond to default codes on PROG Levels 1 & 2 as per Appendix 1.
- The Sero will also respond to Primo codes
- The **Technical Solutions preferred setup** is to use levels 1 & 2 for TVs etc. and use the levels shown on the previous page for the Sero.

Setup with Gewa PROgress

The PROgress factory default has a phone “Answer/Hang UP’ button on the Start page plus two preloaded pages to control a Gewa Jupiter telephone

1. A page with 10 speed dial memories
2. A page with a phone keypad for building phone number one digit at a time ready for dialing

The Sero can be set to operate in the same way as a Gewa Jupiter telephone. But only Jupiter Alternative 3 or 7 are implemented, from Gewa link channels 00-63

Setting Sero as follows will allow it to work with a Gewa PROgress:

- Enter The ‘engineer setup’ menu as previously described
- Set Gewa Start Channel to 16 (This coincides with the PROgress default pages)
- Set Gewa End Channel to 47
- Set Start Function to 32 (This selects Jupiter Alt3)

Note that the PROgress does not give access to memory 00 or Memory 09. When adding contacts to the SERO Phonebook, please make allowance for this.

Setting Gewa PROgress ‘Ans/HangUp’ button on Start page

1. Follow the instructions: ‘Managing Buttons’ ‘Inserting Gewa Link Channels’ (PROgress manual Page 21.)
2. Choose the ‘Answer/HangUp’ button on the Start page to edit
3. Edit Function, Send IR, GewaLink, and set GewaLink Channel to 28

Using URC 9050 to train Gewa codes into other NON-GEWA ECUs

Technical Solutions can supply a remote control (URC 9050) that has been loaded with codes to control the Sero. This remote can be used to train your ECU to work the Sero.

1. Set up your ECU, ready to record/learn infrared signals
2. Use the URC 9050 keypad with the ‘BANK SELECT’ in positions 1 and 2 and follow the chart in Appendix 1 (PTO)

EXAMPLE:

With the ‘BANK SELECT’ in position 1

- Keys 1...0 will enter digits into Sero
- Key A will perform **Speaker on/off** to dial and hang up

With the ‘BANK SELECT’ in position 2

- Keys 1...9 will speed dial Sero memories
- Keys 1+ and 2+ A will adjust speaker volume

Appendix – 1 Gewa Codes to suit Sero Phone

	Jupiter ALT 3	GEWA Levels 1& 2 Start at 0, End at 27		GEWA Levels 2& 3 Start at 16, End at 43		GEWA Levels 3& 4 Start at 32, End at 59		URC 9050
Sero Function	Func' Code	Gewa Code	Gewa Level /Key	Gewa Code	Gewa Level /Key	Gewa Code	Gewa Level /Key	Bank /Key
Digit 1	32	00	1-1	16	2-1	32	3-1	1-1
Digit 2	33	01	1-2	17	2-2	33	3-2	1-2
Digit 3	34	02	1-3	18	2-3	34	3-3	1-3
Digit 4	35	03	1-4	19	2-4	35	3-4	1-4
Digit 5	36	04	1-5	20	2-5	36	3-5	1-5
Digit 6	37	05	1-6	21	2-6	37	3-6	1-6
Digit 7	38	06	1-7	22	2-7	38	3-7	1-7
Digit 8	39	07	1-8	23	2-8	39	3-8	1-8
Digit 9	40	08	1-9	24	2-9	40	3-9	1-9
Digit 0	41	09	1-0	25	2-0	41	3-0	1-0
Digit *	42	10	1-*	26	2-*	42	3-*	1-1+
Digit #	43	11	1-#	27	2-#	43	3-#	1-2+
Speaker on/off	44	12	1-A	28	2-A	44	3-A	1-A
Redial	45	13	1-B	29	2-B	45	3-B	1-B
	46	14	1-C	30	2-C	46	3-C	1-C
Dial mem 1	47	15	1-D	31	2-D	47	3-D	1-TXT
Dial mem 2	48	16	2-1	32	3-1	48	4-1	2-1
Dial mem 3	49	17	2-2	33	3-2	49	4-2	2-2
Dial mem 4	50	18	2-3	34	3-3	50	4-3	2-3
Dial mem 5	51	19	2-4	35	3-4	51	4-4	2-4
Dial mem 6	52	20	2-5	36	3-5	52	4-5	2-5
Dial mem 7	53	21	2-6	37	3-6	53	4-6	2-6
Dial mem 8	54	22	2-7	38	3-7	54	4-7	2-7
Dial mem 10	55	23	2-8	39	3-8	55	4-8	2-8
Dial mem 11	56	24	2-9	40	3-9	56	4-9	2-9
Recall	57	25	2-0	41	3-0	57	4-0	2-0
Volume -	58	26	2-*	42	3-*	58	4-*	2-1+
Volume +	59	27	2-#	43	3-#	59	4-#	2-2+

Appendix 2 - Sero Phone Version 2				With the phone idle Enter Pin on the keypad Then press the setup key (spanner symbol)			
Heading	Setting	Default Value	No PIN	PIN: ***	PIN: #45100#	PIN: #45107#	PIN: #27076#
Announcement Volume							
	Announcement Volume	6		●	●	●	●
Set time & date							
			●	●	●	●	●
Set Up Ringing							
	Ringer Volume	5	●	●	●	●	●
	Ring tone std	0	●	●	●	●	●
	Ring Tone in dir.	11	●	●	●	●	●
	Ring Tone in VIP	6	●	●	●	●	●
	Announce Known Call	yes	●	●	●	●	●
Setup Answerphone							
	Answer phone Rings	5		●	●	●	●
	Answer phone PIN	2468		●	●	●	●
	Answer if withheld	No		●	●	●	●
	Monitor Volume	7		●	●	●	●
Set Functionality							
	Allow Phone book Edit?	Yes			●	●	●
	Sort P.B by name?	Yes			●	●	●
	Allow Phrase recording?	No			●	●	●
	Enable Phrases?	No			●	●	●
	Enable AnswerPhone?	No			●	●	●
	Announce Keys?	No			●	●	●
	Announce Names in PB, logs?	No			●	●	●
	Announce Warnings?	Yes			●	●	●
	Enable Help Key?	Yes			●	●	●
	Autonomous Help Call?	No			●	●	●
	Record Help Message?	No			●	●	●
	Reduced function?	No			●	●	●
	Phr. 49 ends call?	No			●	●	●
	Play Phrase 1 on Answer?	No			●	●	●
Call Control							
	Premium Rate Prefix 1	<None>				●	●
	Premium Rate Prefix 2	<None>				●	●
	Banned no. Prefix 1	<None>				●	●
	Banned no. Prefix 2	<None>				●	●
	Banned no. Prefix 3	<None>				●	●
	Banned no. Prefix 4	<None>				●	●
	Require Pin For calls	No				●	●
	Call Lock Pin	1234				●	●
	Dial Prefix	None				●	●
	Prefix emergency numbers	yes				●	●
	Auto Hang up	None				●	●
Eng.Use Only Settings							
	Display Contrast	9					●
	Use Accented Characters?	No					●
	Gewalink Start Channel	0					●
	GewaLink End Channel	0					●
	Gewa Start Channel	32					●
	Possum IR Group	6					●
	Old Possum IR Codes?	Yes					●
	Default to Headset?	No					●
	Enable Headset?	No					●
	Hands free mode:	2					●
	Auto secrecy?	No					●
	Caller ID Mode:	FSK					●