

TV: Service mode remote control

Revision history	
2003-01-04	<ul style="list-style-type: none"> Added information on the SERVICE PROFESSIONAL remote control
2002-10-24	<ul style="list-style-type: none"> Added sample Pronto sequences
2002-06-28	<ul style="list-style-type: none"> Added comments on sequences
2002-04-14	<ul style="list-style-type: none"> Added GFL Escape sequence

This page shows, some, remote control codes which are used to access service mode for Philips TV's. If you are using the codes mentioned on the [Matchline service mode](#) page. If you did not succeed (your TV is probably using a different method).

The usual way of accessing service mode is using a (special) remote control (RC7150) also known as a Deal remote then you might be able to use a programmable remote control.

Building your own programmable remote control

If you don't have a programmable remote then you might be interested into building it yourself. The [Project Pronto](#) is a programmable remote control and is very easy to build. It also contains a basic explanation on how to generate the service mode codes.

The SERVICE PROFESSIONAL remote control

This remote control (obtainable from www.perfectsat.nl) for Euro 49,- can be used to activate the service mode for Philips TV's. This following sets are supported: Institutional Anubis B (Hotel TV), L6, L7, MD1.2, MD2., MD2.2. and GFL TV. See one of the tables below for a picture and the codes generated by this remote.

Pronto

Pronto owners (the Pronto is a programmable remote control) have the means of entering these remote control codes. The reason for this is, probably, timing issues. These remote control codes must follow each other within a certain time as valid codes.

A real world example:

TV model: *PW9525*

Remote control codes sequence: *RC5 10 26, RC5 16 7, RC5 21 92, RC5 31 4*

This should present the user with a password access screen (but it does not!). However, if we create a 'learned code' sequence the TV will respond.

To create such a 'learned code' sequence you can use the [RC5PRONTO](#) (206 kb) program. This program allows a definable delay inbetween them.

Remote control list

This list gives the remote control sequences which will get you into service mode. You should use the appropriate delays. Note that the delays are for reference only and can be different for certain TV models. The delay is the necessary time between the codes. The last delay is usually not necessary. Also note that the codes within a sequence must follow each other within a certain time as valid codes. This is why it is most likely not possible to enter the sequences manually (key-by-key).

Each entry in the code sequence is of the following form:

RC5 ss cc

where

ss = system address

cc = command

Note: if you get into service mode you can back up to the parent menu using the MENU button. Alternative result (thanks to Eddie Talbot).

Description	Code sequence	Delay (ms)	Comment	Test comments
GFL Alignment i.e MG3	RC5 10 26	25		Tested with a PW9525 and Pronto. 'Learn' only first 4 codes with a 25 ms delay setting You get "Service Entry, Enter password and press OK" Use 3140 as password. Or (as a single definition): [C] LEARNED (first 4 codes only) [D] 1.0 (delay) [C] RC5 0 3 [D] 0.3 [C] RC5 0 1 [D] 0.3 [C] RC5 0 4 [D] 0.3 [C] RC5 0 0 [D] 0.3 [C] RC5 0 87 [D] 0.3
	RC5 16 7	25		
	RC5 21 92	500	25 ms works too	
	RC5 31 4	500		
	RC5 0 3	200	These codes can be entered 'manually', they have no timing restrictions and are normal codes, namely: 3140 OK	
	RC5 0 1	200		
	RC5 0 4	200		
	RC5 0 0	200		
	RC5 0 87	300		
GFL Service default	RC5 10 26	25		Tested with a PW9525 and Pronto.
	RC5 16 7	25		
	RC5 21 92	1000	25 ms works too	
	RC5 31 3	300		
GFL Dealer options	RC5 10 26	25		Tested with a PW9525 and Pronto.
	RC5 16 7	25		
	RC5 21 92	1000	25 ms works too	
	RC5 31 2	300		
GFL Reset/Escape	RC5 10 26	25		This acts as a kind of reset/escape if you are stuck. An invalid GFL command will display a 'Dealer' message with
	RC5 16 7	25		

	RC5 21 92	25		no way of escaping other than a valid command or this one.	C
	RC5 31 0	25		This command also works for the regular user menu's.	T
GFL Reset/Escape	RC5 31 0			Can also be used in some cases to escape.	C C C
GR2.X Open factory - Service	RC5 0 22	25	Factory open	Tested with a ST2781 (GR2.2) and Pronto. If you omit the (2) marked codes you get into FAC mode. Using the (2) marked codes with or without the (1) marked codes get you into SER FAC mode. See TV: MISCELLANEOUS (GR2.2)	C
	RC5 0 23	25			C
	RC5 0 24	300			C
	RC5 3 3	25	(1) Open service version 1		C
	RC5 0 41	100	(1)		C
	RC5 3 0	25	(2) Open service version 2		C
	RC5 0 89	300	(2)		C
GR2.X White Peak Limit +	RC5 0 116	100		Not tested	C C C
FL1 (old) Open factory - alignment	RC5 28 30	25	Factory open	Not tested	C
	RC5 29 40	25			C
	RC5 30 50	1000			C
	RC5 3 50	600	Alignment open		C
	RC5 31 63	300	Factory close		C
FL1 (old) Store/Close factory - alignment	RC5 28 30	25	Factory open	Not tested	C
	RC5 29 40	25			C
	RC5 30 50	1000			C
	RC5 3 90	600			C
	RC5 3 51	600			C
	RC5 31 63	300	Factory close		C
FL1 Open factory - alignment	RC5 28 35	25	Factory open	Tested with a PW9525 and Pronto. Note that you can not change dealer options -> if you select the dealer options and then exit the menu some 'residual' text will be left on screen.	C
	RC5 30 45	25			C
	RC5 31 55	1000			C
	RC5 16 72	1000	Alignment open version 1 (you can omit this for the PW9525)		C
	RC5 16 64	1000	Alignment open version ptv		C
	RC5 31 63	300	Factory close		C
FL1 Open factory - white screen	RC5 28 35	25	Factory open	Seems to work with the PW9525 (the screen lights up white momentarily if you use the whole sequence).	C
	RC5 30 45	25			C
	RC5 31 55	1000			C

	RC5 2 1	25	White	If you omit the 'factory close' code then you will have a completely white screen. When 'factory close' is send later on then you exit this.	C
	RC5 13 40	1000			C
	RC5 31 63	300	Factory close		C
FL1 Open factory - red screen	RC5 28 35	25	Factory open	Seems to work with the PW9525 (the screen lights up red momentarily if you use the whole sequence). If you omit the 'factory close' code then you will have a completely red screen. When 'factory close' is send later on then you exit this.	T
	RC5 30 45	25			C
	RC5 31 55	1000			C
	RC5 2 2	25	Red		C
	RC5 13 40	1000			C
	RC5 31 63	300	Factory close		C
FL1 Open factory - green screen	RC5 28 35	25	Factory open	Seems to work with the PW9525 (the screen lights up green momentarily if you use the whole sequence). If you omit the 'factory close' code then you will have a completely green screen. When 'factory close' is send later on then you exit this.	T
	RC5 30 45	25			C
	RC5 31 55	1000			C
	RC5 2 3	25	Green		C
	RC5 13 40	1000			C
	RC5 31 63	300	Factory close		C
FL1 Open factory - default (error list)	RC5 28 35	25	Factory open	Tested with a PW9525 and Pronto. Note: STANDBY will not exit service default mode: use the GFL service default and then put in standby to exit it	C
	RC5 30 45	25			C
	RC5 31 55	1000			C
	RC5 16 63	1000	Default		C
	RC5 31 63	300	Factory close		C

Additional sequences which work with the PW9525 model (and probably works for all MG2.1/MG3.1/MG4.1/

Description	Code sequence	Delay (ms)	Comment	Test comments
PW9525 Lock remote	RC5 28 35	25	This 'locks' the TV so it will not accept any remote control codes. You need to turn the TV off to reverse it. The mechanical controls on the TV itself keep functioning.	Tested with a PW9525 and Pronto.
	RC5 30 45	25		
	RC5 31 55	25	The reason is simple: since this is part of a	

FL1 sequence it expects more codes...



SERVICE PROFESSIONAL remote control

See www.perfectsat.nl

Besides some minor differences in delays the only difference with GFL sequence code table is the repetition of the last command in some cases.

Description/key	Code sequence	Delay(ms)	Comment
INSTALL	RC5 0 122		Normal customer installation.
STANDBY	RC5 0 12		
0-9	RC5 0 x		'x' ranges from (
OSD	RC5 0 15		Display
SLEEP	RC5 0 38		Sleep timer
I-II	RC5 0 35		Language 1/2
MUTE	RC5 0 13		
The key below the '0' has no function.			
A/CH	RC5 0 34		Alternate channel
AV	RC5 0 56		External
UP	RC5 0 80		
PICT	RC5 3 10		
LEFT	RC5 0 85		
OK	RC5 0 87		Acknowledge
SMART SOUND	RC5 3 11		
INCR.SOUND	RC5 0 36		Spatial stereo
DOWN	RC5 0 81		
PROG+	RC5 0 32		
VOL-	RC5 0 17		
VOL+	RC5 0 16		
PROG-	RC5 0 33		
RED	RC5 0 107		
GREEN	RC5 0 108		
YELLOW	RC5 0 109		
BLUE	RC5 0 110		
TEXT	RC5 0 60		
SIZE	RC5 0 41		Store/execute/v
?	RC5 0 44		Decrement
X	RC5 0 45		
ALIGN	RC5 10 26	15	Use '3140' as

	RC5 16 7	20	password when asked for.
	RC5 21 92	225	
	RC5 31 4	5	
	RC5 31 4		
DEFAULT	RC5 10 26	15	
	RC5 16 7	20	
	RC5 21 92	225	
	RC5 31 3	5	
	RC5 31 3		
DEALER	RC5 10 26	15	
	RC5 16 7	20	
	RC5 21 92	225	
	RC5 31 2	5	
	RC5 31 2		
EXIT	RC5 31 0		