

RC5 Control Test Procedure Issue 1

1. Setup IR test unit with display facing the test operator then apply power to the IR test unit (5 Volts DC @ 200mA)
2. Wait for the ready screen to display

READY
A:FF C:FF S/T:FF

3. Point a Remote Control to be tested at the test unit, ensuring the line of sight is clear. Press any button on the Remote Control. The display backlight will flash to indicate IR data is being received. The display should then show information about the button that was pressed.

B: CH 1 (TV)
A:00 C:01 S/T:30

Test each button in turn and the corresponding information should be displayed.

B:value

The decoded where *value* is the common button name. For a complete list of valid values see attached sheet.

A:nn

The decoded address where *nn* is a valid number between 00 and FF hexadecimal

C:nn

The decoded command where *nn* is a valid number between 00 and FF hexadecimal

S/T:nn

The start bits and toggle bit status where *nn* is a valid number from 30, 31, 20, or 21 hexadecimal

The first number is the start bit attribute, normally 0 but can be 1 for some special command buttons.

The second number is the toggle or repeat bit. This should toggle between 0 and 1 for each button press.

4. If an unknown command was detected the following message will be displayed.

B:UNKNOWN (TV)
A:nn C:nn S/T:nn

This means the address was valid, but the command was not recognised.

5. If the address was not recognised the following message will be displayed.

TRY AGAIN! +
A:nn C:nn S/T:nn

The firmware will then try and adjust the bit tolerance timing by + / - 40uS. A + or – symbol on the top right of the display will be shown to indicate +40uS or –40uS bit tolerance timing.

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Valid TV (RC5) values covered in firmware version 1.0

Value	Address	Command	S/T Bits	Remarks
CH 1 (TV)	00 or 07	01	30 or 31	Channel 1
CH 2 (TV)	00 or 07	02	30 or 31	Channel 2
CH 3 (TV)	00 or 07	03	30 or 31	Channel 3
CH 4 (TV)	00 or 07	04	30 or 31	Channel 4
CH 5 (TV)	00 or 07	05	30 or 31	Channel 5
CH 6 (TV)	00 or 07	06	30 or 31	Channel 6
CH 7 (TV)	00 or 07	07	30 or 31	Channel 7
CH 8 (TV)	00 or 07	08	30 or 31	Channel 8
CH 9 (TV)	00 or 07	09	30 or 31	Channel 9
CH 0 (TV)	00 or 07	00	30 or 31	Channel 0
VOL+ (TV)	00 or 07	10	30 or 31	Volume +
VOL- (TV)	00 or 07	11	30 or 31	Volume -
CH + (TV)	00 or 07	20	30 or 31	Channel +
CH - (TV)	00 or 07	21	30 or 31	Channel -
MUTE (TV)	00 or 07	0D	30 or 31	MUTE
MENU (TV)	00 or 07	12	20 or 21	MENU
OK (TV)	00 or 07	17	20 or 21	OK
LEFT (TV)	00 or 07	15	20 or 21	LEFT
RIGHT (TV)	00 or 07	16	20 or 21	RIGHT
UP (TV)	00 or 07	10	20 or 21	UP
DOWN (TV)	00 or 07	11	20 or 21	DOWN
AUDIO (TV)	04	0B	30 or 31	SMART 1
PICTURE (TV)	04	0A	30 or 31	SMART 2
I-II (TV)	00 or 07	23	30 or 31	I-II (MONO / NICAM)
RED (TV)	04	29	20 or 21	RED
GREEN (TV)	04	1D	30 or 31	GREEN
YELLOW (TV)	04	0E	20 or 21	YELLOW
BLUE (TV)	04	1F	30 or 31	BLUE
ALARM (TV)	04	28	20 or 21	ALARM +
PAY (TV)	04	1C	30 or 31	PAY TV +
INFO (TV)	04	0D	20 or 21	INFO +
RADIO (TV)	04	1E	30 or 31	RADIO +
STANDBY (TV)	00 or 07	0C	30 or 31	STANDBY
SLEEP (TV)	00 or 07	26	30 or 31	SLEEP TIMER
OSD (TV)	00 or 07	0F	30 or 31	CHANNEL ID