

## 16 Integrated test program of the CD-PRO player

### 16.1 Access to the player functions without S&CC unit

For a test the complete player unit CD-PRO can be operated without S&CC unit.

The power supply from the installed amplifier, the sub-transformer and an amplifier with CD input for the audio signal is required.

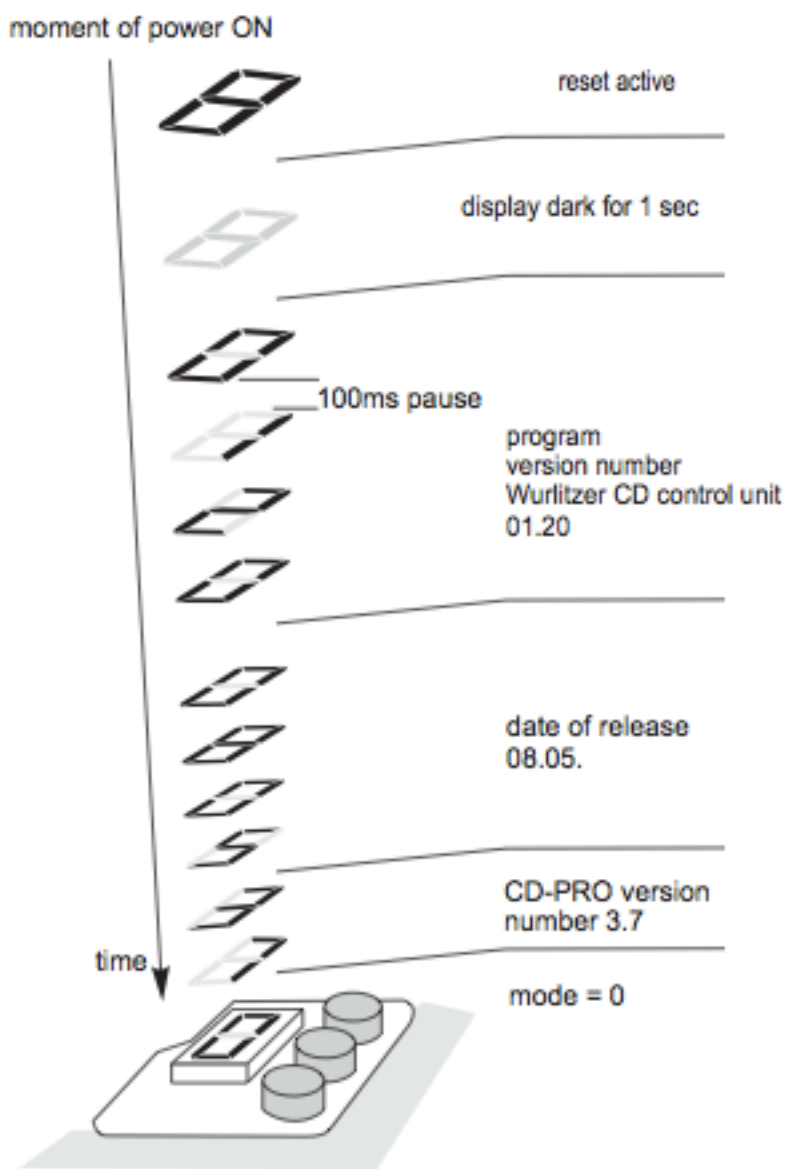
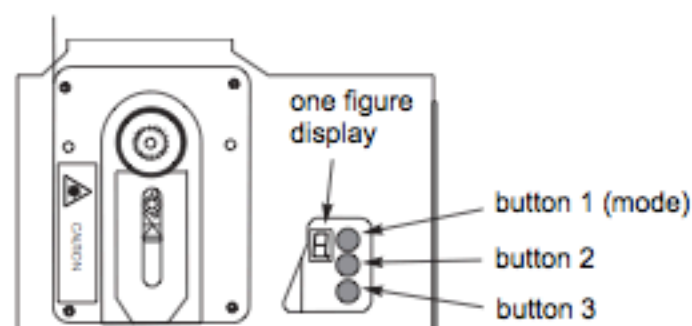
A one digit digital display indicates the current operation mode and three command buttons are located on the player chassis.

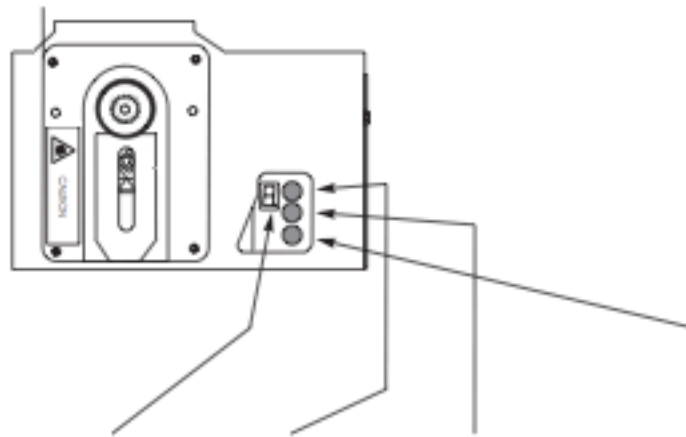
The one digit display is able to display more information.

To display two or more digits the information starts with a dark phase of approx. 1 sec. followed by the digits shown one after another with dark phase of 100 msec. between each digit.

After power on and after a general reset command (display shows "8"), the program version number of the Deutsche Wurlitzer GmbH CD control unit will be displayed with four digits followed by the version number of the CD-PRO servo processor with two digits.

If the player is in stand by and the three buttons on the player are pressed at the same time the above mentioned sequence will be displayed but without showing "8" for "reset active".





## Test functions CD-PRO

(Example: If mode display = 3 and button 2 will be pressed, then pause is switched on.)

mode display	button 1 (mode)	button 2	button 3	buttons 2 + 3 together
0	mode 1	start	stop	repeat CD
1	mode 2	next track	previous track	repeat track
2	mode 3	search forward	search backward	single, double speed.
3	mode 4	pause ON	pause OFF	
4	mode 5	volume +	volume -	mute
5	mode 0	track -1	track -1	play selected track (read TOC if necessary)

If "repeat CD" had been selected with the buttons 2 + 3 in mode 0 the display will be "99". At each beginning of a new track it will be displayed with two digits.

If "repeat track" had been selected with the buttons 2 + 3 in mode 1 the actual played track will be displayed.

By pressing of two buttons at the same time additional values will be displayed:

Buttons 1+2: The last occurred error code will be displayed (ref. to error code table). This error code will be reset after this retrieval or after a CD-PRO reset (e.g. the next power on).

Buttons 1+3: The actual playing track will be displayed.

Buttons 1+2+3:

a) No CD is playing: Program version and date of release.

b) CD is playing: Max. / min. track number will be displayed.

Error code	Meaning
0	No error
2	Focus error or no disc
7	Subcode error, no valid subcode
8	TOC error
10	Radial error
12	Fatal sledge error
13	Turntable motor error
31	Search time out
32	Search binary error
33	Search index error
34	Search time error
40	Illegal command
41	Illegal value
42	Illegal time value
43	Communication error
44	Reserved
45	HF detector error
48	Emergency stop



**NOTE:** If commands will be sent to the CD-PRO player, the display will flash. During this time no commands given by the buttons will be accepted. While the table of contents (TOC) is read an 8 flashes in the display. In this way, the necessary time to read the TOC can be prolonged. So bad CDs can be recognised and taken out.

## 16.2 Special test functions of the CD-PRO player

Service program of CD-PRO (mode 9). With this service program different functions of the CDM12 player can be tested.

### How to call:

Switch main power OFF. Press button 1 - hold down - and switch main power on. (Remark: "Power ON - OFF" can also be done by disconnecting the wire bk./gy. from pin 6 of the sub transformer.)

### Function:

The CD control unit steps into mode 9 and runs the tests 90 up to 99. Mode 9 will be displayed continuously. While changing the test step it will be displayed with two digits

### Remarks:

For starting test step 94 a CD has to be placed on turntable.

The button 1...

has no function during this test.

The button 2...

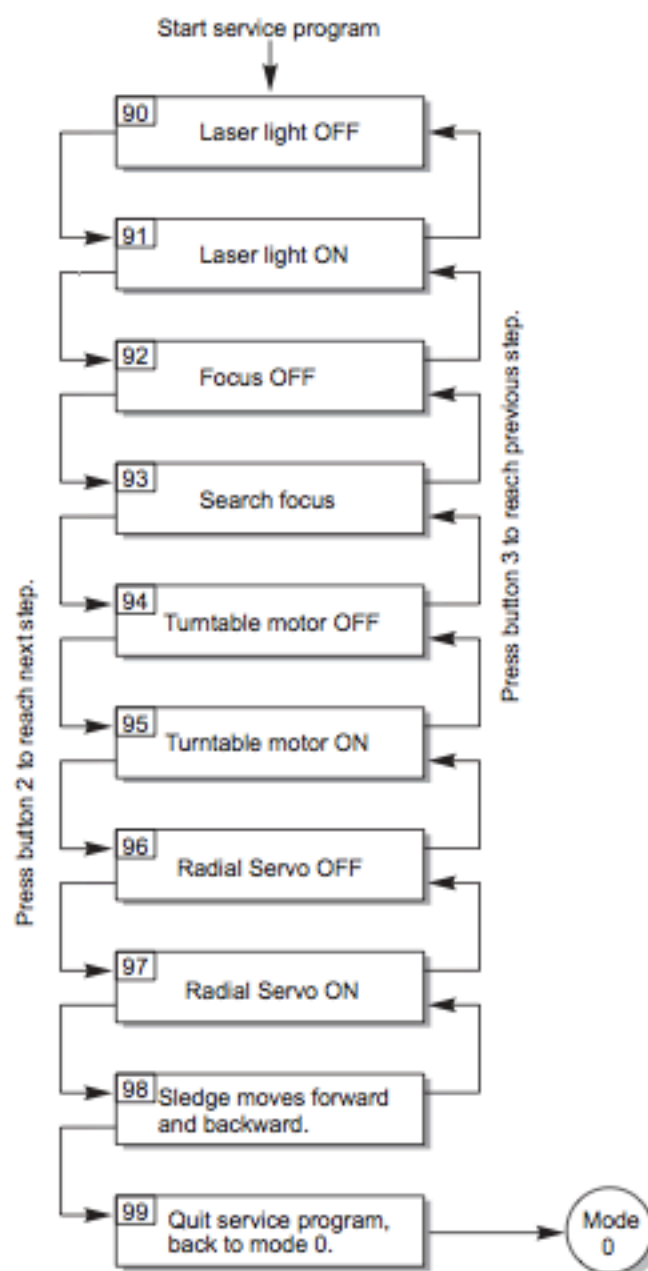
switches to the next test step.

The button 3...

switches to the previous test step.

### Quit:

Press button 2 while test 98 is running. Control unit steps over test 99 to mode 0 automatically.



**Test 91:** You can check the laserlight with an infrared indicator.

**Test 93:** Without a CD: laser lense moves up and down. If you put a CD on the turntable while the test runs the lens stops moving if it finds the focus point.

**Test 95:** The turntable motor must spin.

**Test 98:** The sledge moves itself from inside to outside and back again. If this test is successful the speed of the disc must change to lower speed at the outside of the disc.

