

2 Actions – μ P to BT-CD-80

2.1 Additional Commands

2.1.1 AC_Cmd_Decoder

Purpose :	Allows direct access to the SAA7824 Decoder in state Play and state Stop.	
Parameters :	Bank (1 Byte) Register (1 Byte)	incl. Shadow Registers Address (High Nibble) + Data (Low Nibble)
Precondition :	-	
Postcondition :	Decoder is set to Bank0	
Description :	Using this command interferes heavily with the CD servo code. A correct function of the CD80 Module after sending this command is NOT GUARANTEED. For experienced programmers only: use at own risk!	

2.1.3 AC_Search_User

Additional to the fixed search speed AC_Search_Forward (slow/fast) and AC_Search_Backward (slow/fast) the set software can define its own search behaviour by setting the playtime and the jumpdistance. It is possible to mix all search commands and to go from search forward to search backward and vice versa directly.

Purpose :	Allows definition of search behaviour	
Parameters :	Direction (1 Byte)	0 .. search forward 1 .. search backward
	Playtime (1 Byte)	playtime in ~10 ms
	Jumpdistance (1 Byte)	jumpdistance in 5 frames
Precondition :	PLAY state	
Postcondition :	state search forward – search backward	
Description :	In “NORMAL PLAY” or “REPEAT DISC” the search continues to the next / previous track. In all other playmodes, search can only be done in the current track.	

Example: AC_Search_User : 0x1E 0x03 0x01 0x0A 0x08

0x1E	AC_Search_User
0x03	number of parameters (3)
0x01	search backward
0x0C	playtime: 12 * 10 = 120 ms
0x08	jumpdistance: 8 * 5 = 40 frames

Sending AC_Search_User with these parameters results in a search backward, the track is played for ~120ms, than a jump 40 frames backwards, ~120ms play, 40 frames jump, etc.

Good starting values for evaluation for set developers are [in decimal values]:

	playtime	jumpdistance
slow forward search	12	10
	12	12
	14	10
fast forward search	8	14
	8	20
	12	20
slow backward search	11	13
	10	18