<u>KEYBOARD</u>

The Coupe has a full-travel 72 key keyboard. It is addressed as a 9 x 8 matrix, using two ports, KEYBOARD (254 dec) and STATUS (249 dec).

The 8 input lines are made up by the KEYBOARD port inputting the lower 5 bits represented by K1, K2, K3, K4 and K5, while the STATUS port inputs the upper 3 bits represented by K6, K7 and K8.

The 9 output scan lines are made up by the CPU address lines AD8, AD9, AD10, AD11, AD12, AD13, AD14, AD15 and the ASIC line RDMSEL.

An example of a typical keyboard scan:

	LD	HL,SCAN	;set HL with buffer start
	LD	B,llllll0bin	;set upper address lines
LOOP	LD IN	C,HIKEY A,(C)	;port address K6 - K8
	AND	11100000bin	;strip unwanted bits
	LD	(HL),A	;hold it
	LD IN	C, LOKEY A, (C)	;port address K1 - K5
	AND	000llllbin	;strip unwanted bits
	OR	(HL)	;make K1 - K8
	LD	(HL),A	;save it
	INC SCF	HL	<pre>;next location in buffer ;set carry flag for</pre>
	RLC	B	;rotate next address line
	JR	C,LOOP	;jump if not done
	IN AND LD RET	A,(C) 00011111bin (HL),A	;input RDMSEL line ;strip unwanted bits ;save it ;return to analyse scan

Keyboard port address map

ADDRESS		STATUS (&F9)			BORDER (&FE)				
SELECTOR		7	6	5	4	3	2	1	0
11111110	FΕ	F 3	F 2	F 1	V	С	Х	Z	SHIFT
11111101	FD	F 6	F 5	F 4	G	F	D	S	A
11111011	FΒ	F 9	F 8	F 7	Т	R	E	W	Q
11110111	F7	CAPS	TAB	ESC	5	4	3	2	1
11101111	ΕF	DELETE	: +	-	6	7	8	9	0
11011111	DF	F O		=	Y	U	I	0	Р
10111111	ΒF	EDIT	:	;	Н	J	K	L	RETURN
01111111	7 F	INV	•	,	В	N	М	SYMBOI	SPACE
11111111	FF				RIGHT	LEFT	UP	DOWN	CNTRL