

This table lists the differences between the service connectors in the three Soemton ETR 2xx machines in our collection. Most of the connections are the same over the three machines with the main differences being in the power supply section (dotted lines).

Pin	ETR 220		ETR 222		ETR 224	
	Upper	Lower	Upper	Lower	Upper	Lower
1	0V	E8	0V	E8	0V	E8
2	A1	UBER	A1	UBER	A1	UBER
3	E1	F1	E1	F1	E1	F1
4		F2		F2		F2
5	WRITE	F3	WRITE	F3	WRITE	F3
6	M	F4	M	F4	M	F4
7	S1	F5	S1	F5	S1	F5
8		F6	?	F6	?	F6
9		Z1	?	Z1	?	Z1
10		Z2		Z2		Z2
11	MRS	Z4	MRS	Z4	MRS	Z4
12	A2	Z8	A2	Z8	A2	Z8
13	E2	Z16	E2	Z16	E2	Z16
14				?	?	?
15	V	(B1)	V	(B1)	V	(B1)
16		B2		B2		B2
17	MUL	B3	MUL	B3	MUL	B3
18	DIV	(B4)	DIV	(B4)	DIV	(B4)
19	R		R		R	?
20	HV	-12v	HV	-12V	HV	-12V
21	MDS	+12v	MDS	+12V	MDS	+12V
22	A4		A4		A4	?
23	E4	+190Vin	E4	+190Vin	E4	+190Vin
24		+190v		+190v	?	+190v
25	SUB		SUB		SUB	?
26	(MZ)	MCLKin	(MZ)	MCLKin	(MZ)	MCLKin
27	RU	MCLK	RU	MCLK	RU	MCLK
28	VER		VER		VER	
29	(VOR)	(KEYin)	(VOR)	(KEYin)	(VOR)	(KEYin)
30	AC	(KEY)	AC	(KEY)	AC	(KEY)
31	ACO		ACO		ACO	
32	A8		A8		A8	?

  

42 of 50	8 of 14	45 of 50	6 of 14	47 of 50	6 of 14
50 signals		51 signals		53 signals	
5 voltages		3 voltages		1 voltage	

Key

	No connection
-12V	No connection - expected signal missing
?	Extra connection - new unknown signal
(VOR)	Inverted signal