

Part numbering system of the Büromaschinenwerk Sömmerda

This part number list has been compiled from multiple Soemtron drawings, other part numbers will be added as they come to light. With thanks to - ww.robotrontechnik.de - for the part numbers, and Rolli at the Schaudapot Sommerda for the Check digit and version number explanations.

All documents and drawings, parts lists, regulations (test, adjustment, maintenance, packaging etc.) required for the production, service and spare parts supply were marked with a part number by Büromaschinenwerk Sömmerda. The number was nine digits with a check digit separated by a dash "-" for better legibility.

The structure was as follows:

XX-YYY-ZZZZ-P

- XX = ID for the production stage, documentation type
- YYY = Device identifier.
- ZZZZ = Module number within the device
- P = Check digit

Recently received from Rolli at the Schaudapot Sommerda.

The number "P" is the checksum / check digit of the part number itself. P is derived only from xx, yyy and zzzz. The issue level was set behind this number. It consists of a number and a lower case letter. The number was changed, if the modification was extensive, and the letter was changed if the modification was small.

Example - 05-489-2010-5 0a --> 05-489-2010-5 0b

If it is a double sided board a "B" is inserted for the upper side layout or an "L" for the bottom side layout, between the part number and the issue level. **Example** - 05-489-2010 B 0a.

At the time the ETR220 was developed an older part number system was used. **Example** - 220-317-012a

XX included the range from 01 to 99.

- 01 - 04 = Precursors for individual parts (01: cast part, 02: blanket)
- 05 = Individual part (also uncovered circuit board)
- 06 - 09 = Subassembly with non-detachable connections
- 10 = Module with detachable connections
- 12 - 19 = ?
- 20 = Printed circuit board
- 45 = Device
- 56 = Circuit diagram
- 81 = Test specification
- 95 = Ready for dispatch

YYY described the device class in which the product was classified.

- 382 = Electronic billing machine EAA 382
- 262 = Impact printer K6316
- 220 = ETR220 Calculator
- 221 = ETR221 Calculator
- 222 = ETR222 Calculator
- 224 = ETR224 Calculator

ZZZZ described the individual modules.

The number was assigned for the respective determining part of an assembly and this number was maintained up to the highest production level. The distinction was made by the part number XX.

Example Nadeldruckkopf:

- 02-451-ABCD-P = Die-cast part as a decisive basic part
- 05-451-ABCD-P = Completely machined basic part with machining processes
- 06-451-ABCD-P = After additional parts (non-detachable connections)
- 10-451-ABCD-P = After mounting additional parts (detachable connections)
- 73-451-ABCD-P = Setting instructions
- 81-451-ABCD-P = Specification

Purchased parts / Standard Parts

00-YYY-ZZZZ-P

- YYY = ID for the part class. Separated according to TGLs
- ZZZZ = Consecutive number within the part class
- P = Check digit

Examples of YYY:

- 100-120 = Semi-finished products e.g.
- 101 = Sheets
- 110 = Round material
- 112 = Square material
- 200-299 = Mechanical standard parts (screws, nuts, washers,
- 402 = resistors
- 421, 422 = Capacitors
- 555 = Transistors
- 560 = Si diodes

ZZZZ

If the TGL knew how many different parts existed, the numbers were pre-assigned, otherwise the number was consecutively numbered. The number of possible types was specified for resistors of a certain size (power) and a certain tolerance. Thus, the assignment was very systematic. This also applied to capacitors and standard parts such as screws, washers, nuts. With other classes (circuits, transistors), new ones were added, so that a continuous numbering took place.

With the transfer of the Büromaschinenwerk into the Kombinat Robotron the number system was changed to KROS (Kombinat Robotron Standard).

Construction according to the Combine Standard KROS0010:

Device part = A.BC.DEZZZZ.P / TT
Purchase = 0.XXXX.YYYY.P / MK

In BWS the standard was implemented as follows:

- A = always 1
- B = always 9
- CDE = Device cipher (corresponds to YYY)
- ZZZZ = Consecutive number within CDE
- C = Check digit
- TT = Extension for document identification According to KROS0032.

Examples: 01 = parts list, 04 = circuit diagram, 09 = assignment plan, 12 = test specification, EE = single part, FF = finished part, GB = assembly

The list of part numbers follow on page 3.

Errors exist in this list which need correcting due to the condition of the original documents and the OCR process.

Example -

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
XX-XXX-XXXX-X	Suspect part number, check to original document	Possible correction highlighted . 05-000-0235-8

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
00-100-0024-5	Hollow wire 1.5 kol LSn60	
00-201-3405-3	Cheese head screw M2x10	
00-201-3512-0	Cheese head screw M2.6x8	
00-201-3572-3	Cheese head screw M3x5	
00-201-3585-5	Cheese head screw M3x8	
00-201-3612-0	Cheese head screw M2.6x8	
00-201-3662-7	Cheese head screw M3x4	
00-201-3672-3	Cheese head screw M3x5	
00-201-3688-5	Cheese head screw M3x8	
00-201-3704-1	Cheese head screw M3x12	
00-201-3875-8	Cheese head screw M4x10	
00-201-4057-5	Cheese head screw M6X14	
00-201-5412-2	Cheese head screw M3x16	
00-201-5425-1	Cheese head screw M3x20	
00-203-0029-5	Fillister-head screw M3x6	
00-203-1564-6	Fillister-head screw M3x6	
00-203-1584-7	Fillister-head screw M3x10	
00-204-1592-2	Countersunk screw M3x8	
00-206-0400-2	Grub screw	
00-212-0899-7	Hexagon nut M3	
00-212-1057-3	Hexagon nut M3	
00-218-2545-6	Tap rivet	
00-224-0151-3	Hollow rivet 3x0.25x8	
00-225-0235-8	Washer 3.2	
00-225-3097-2	Lock washer	
00-227-0716-0	Spacer 3.6x7h 11	
00-273-1564-6	Fillister-head screw M3x16	
00-301-3688-5	Cheese head screw	
00-400-9965-8	Film resistor 4.7 ohm 10% 0.125w	
00-400-9971-3	Film resistor 15 ohm of 10% 25.311	
00-400-9990-6	Film resistor 560 ohm 10% 25.311	
00-400-9992-2	Film resistor 820 ohm 10% 25.311	
00-400-9993-0	Film resistor 1k ohm 10%	
00-400-9994-7	Film resistor 1.2k ohm 10%	
00-400-9995-5	Film resistor 1.5k ohm 10% 25.311	
00-400-9996-3	Film resistor 1.8k ohm 10% 25.311	
00-400-9998-8	Film resistor 2.7k ohm 10% 25.311	
00-401-0002-6	Film resistor 4.7k ohm 10% 25.311	
00-401-0006-7	Film resistor 10k ohm 10% 25.311	
00-401-0007-5	Film resistor 12k ohm 10% 25.311	
00-401-0016-3	Film resistor 68k ohm 10% 25.311	
00-401-0018-8	Film resistor 100k ohm 10% 25.311	
00-401-0026-8	Film resistor 470 ohm 10%	
00-401-0087-0	Film resistor 100 ohm 5% 25.311	
00-401-0111-5	Film resistor 1k ohm 10% 25.311	
00-401-0123-5	Film resistor 3.3k ohm 5% 25.311	

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
00-401-0131-6	Film resistor 6.8k ohm 5% 25.311	
00-401-0330-1	Film resistor 2.7k ohm 2% 25.311	
00-401-0578-7	Film resistor 47 ohm 10%	
00-401-0581-8	Film resistor 82 ohm 10%	
00-401-0593-0	Film resistor 820 ohm 10% 25.412	
00-401-0594-7	Film resistor 1k ohm 10% 25.412	
00-401-0616-0	Film resistor 68k ohm 10% 25.412	
00-401-1182-4	Film resistor 33 ohm 10% 25.518	
00-401-1194-5	Film resistor 330 ohm 10% 25.518	
00-401-1201-3	Film resistor 1.2k ohm 10% 25.518	
00-401-1941-3	Film resistor 3.6k ohm 5% 25.732 TGL 8728	
00-401-2419-5	Film resistor 10k ohm	
00-401-6007-5	Film resistor 12k ohm 10%	
00-401-6018-8	Film resistor 100k ohm 10%	
00-401-6602-5	Film resistor 4.7k ohm 10%	
00-401-8668-1	Film resistor 39 ohm 1% 11.511	
00-401-8670-4	Film resistor 43 ohm 1% 11.511	
00-403-5862-8	Variable film resistor S 1k ohm 1-05-554	
00-403-5867-7	Variable-film resistor S 50k ohm 1-05-554	
00-403-5898-2	Film resistor P1k ohm 1-1-554	
00-403-5900-1	Film resistor P5k ohm 1-1-544	
00-403-5901-3	Film resistor P10k ohm 1-1-544	
00-405-1552-0	Wirewound resistor 22 ohm 14x540g 10 TGL 200-8041	
00-405-8798-6	Wire wound resistor 56 ohm	
00-408-1227-5	Insulating bush B	
00-411-0335-8	Thermistor	
00-411-0659-0	Film resistor 10 ohm 10% 0.05W	
00-411-0676-2	Film resistor 47 ohm 10% 0.05W	
00-411-0676-2	Film resistor 470 ohm 10% 0.05W	
00-411-0682-6	Film resistor 100 ohm 10% 0.05W	
00-411-0689-1	Film resistor 220 ohm 10% 0.05W	
00-411-0696-3	Film resistor 390 ohm 10% 0.05W	
00-411-0706-4	Film resistor 470 ohm 10% 0.05w	
00-411-0716-6	Film resistor 1k ohm 10% 0.05W	
00-411-0722-4	Film resistor 2.2k ohm 10% 0.05W	
00-411-0730-4	Film resistor 4.7k ohm 10% 0.05W	
00-411-0732-0	Film resistor 5.6k ohm 10% 0.05W	
00-411-0736-1	Film resistor 8.2k ohm 0.05W	
00-411-0739-4	Film resistor 10k ohm 10% 0.05W	
00-411-0742-5	Film resistor 12k ohm 10% 0.05W	
00-411-0745-8	Film resistor 15k ohm 10% 0.05W	
00-411-0757-0	Film resistor 39k ohm 10% 0.05W	
00-411-0762-6	Film resistor 47k ohm 0.05W	
00-411-0768-3	Film resistor 56k ohm 10% 0.05W	
00-411-0775-5	Film resistor 68k ohm 10% 0.05W 25.311	
00-411-0781-0	Film resistor 100k ohm 10% 0.05W	
00-411-0788-4	Film resistor 220k ohm 10% 0.05W	
00-411-0811-2	Film resistor 1M ohm 10% 0.05W	
00-411-1046-1	Film resistor 200 ohm 5% 0.05W	

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
00-411-1065-4	Film resistor 1.5k ohm 5% 0.05W	
00-411-6730-4	Film resistor 4.7k ohm 10% 0.05W	
00-411-6775-5	Film resistor 68k ohm 10% 0.05W	
00-420-4345-7	Polystyrene capacitor 120/5/63	
00-420-4351-2	Polystyrene capacitor 220/5/63	
00-420-4361-7	Polystyrene capacitor 560/5/63	
00-420-4363-3	Polystyrene capacitor 680/5/63	
00-420-4375-4	Polystyrene capacitor 2200/5/63	
00-420-4401-5	Polystyrene capacitor 220/10/63	
00-420-4409-7	Polystyrene capacitor 470/10/63	
00-420-4417-7	Polystyrene capacitor 1000/10/63 TGL 5155	
00-420-4425-1	Polystyrene capacitor 2200/10/63	
00-420-4427-3	Polystyrene capacitor 2700/10/63	
00-420-4461-5	Polystyrene capacitor 220/10/63	
00-421-0024-1	Electrolytic capacitor 05000/25	
00-421-0061-0	Electrolytic capacitor 100/150-665	
00-421-0231-5	Electrolytic capacitor 5/3	
00-421-0305-1	Electrolytic capacitor 20/15	
00-421-0313-1	Electrolytic capacitor 100/25	
00-421-0320-3	Electrolytic capacitor 2/50	
00-421-1161-3	Electrolytic capacitor 1000/25	
00-421-1166-2	Electrolytic capacitor 1000/15	
00-421-1171-8	Electrolytic capacitor 500/25	
00-421-3531-5	Paper-foil capacitor	Value ?
00-421-3534-8	Paper capacitor 0.047/63-445	
00-421-3535-6	Paper capacitor 0.1/63-445	
00-421-3536-4	Paper capacitor 0.22/63-445	
00-421-3551-6	Paper capacitor 0.022/160-145	
00-421-6933-1	Silicon breakdown diode SZX18/6.8	
00-422-0182-4	Interference suppression capacitor	New equivalent spare part available
00-422-9411-1	Insulating washer A 32	
00-430-9522-5	Neon lamp E 23/10	
00-430-9525-5	Neon lamp E 26/10	
00-430-9991-1	Telephone lamp 12V 0.05A	
00-430-9992-8	Telephone lamp 12V 0.05A	
00-435-0128-0	Fuse insert F1.6 TGL 0-41571 B1. 1	
00-435-0348-3	Fuse insert	Value ?
00-435-0350-5	Fuse insert T500 TGL 6-41571 B1.3	
00-445-2096-5	Connector plug	# of pins ?
00-445-6966-7	Miniature plug 32-pin	Check # pins on backplane
00-445-6878-7	Miniature plug 11-pin	
00-445-6896-3	Miniature plug 20-pin	
00-445-6911-1	Connector plug 32 pin	
00-445-6913-6	Miniature plug 32-pin	
00-445-6933-7	Miniature socket 11-pin	
00-445-6934-5	Miniature socket 11-pin	
00-445-6949-0	Miniature socket 20-pin	
00-445-6956-7	Miniature socket 31-pin	
00-445-9560-3	31-pin multipole connector	

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
00-455-6911-1	Miniature plug 32-pin	
00-456-4300-0	Wire (C) Y 2x0.14mm ²	
00-458-1216-2	Solder tag	
00-458-1227-5	Insulating bush	
00-460-1987-1	Insulating sleeving	
00-468-1216-2	Solder tag	
00-468-1227-5	Insulating bush	
00-468-4432-1	Solder tag 1A 6C	
00-484-1222-6	Sprung contact set	
00-555-0465-7	Transistor GD170b	
00-555-1106-7	Transistor GS109b	
00-555-1107-8	Transistor GS109c	
00-555-1108-6	Transistor GS109d	
00-555-1109-4	Transistor GS109e	
00-555-1109-4	Transistor SB20	
00-555-3307-5	Transistor GS121b	
00-555-3308	Transistor GS121c	
00-555-3308-3	Transistor GS121c	
00-555-3309-1	Transistor GS121d	
00-555-3310-6	Transistor GS121e TGL 200-8434	
00-555-8828-1	Insulating washer PE	
00-555-9524-8	Transistor SA25 $\beta=29...55$ $T_i \leq 10\mu S$	
00-555-9526-4	Transistor SA25 $\beta=45...88$	
00-555-9527-2	Transistor SA25 $\beta=72...166$ $T_i \leq 10\mu S$	
00-555-9532-8	Transistor SB20 $\beta=29...55$	
00-555-9534-4	Transistor SB20 $\beta=72...166$	
00-555-9544-0	Transistor SC20 $\beta=45...88$	
00-555-9547-3	Transistor SC20 $\beta=72...166$	
00-555-9626-4	Transistor SA25 $\beta=45...88$	
00-555-9628-7	2SA15 red	
00-555-9629-8	2SA15 yellow	
00-555-9633-7	2SA17	
00-555-9651-3	2SB75 red	
00-555-9652-1	2SB75 black	
00-555-9654-6	2SB77 yellow	
00-555-9655-4	2SB77 green	
00-555-9665-0	2SB228 Hitachi	
00-555-9743-2	Transistor	
00-555-9743-4	Transistor ASZ1015 $\beta=29...55$	
00-555-9752-2	Transistor BSY79 $\beta=30$	
00-555-9975-5	Transistor GS122 $\beta=45...90$	
00-555-9975-8	Transistor GS122 $\beta=28...56$	
00-555-9976-6	Transistor GS122 $\beta=45...96$	
00-560-1002-5	Germanium rectifier diode GY122	
00-560-2594-8	OA903	
00-560-2759-7	OA741	
00-560-3307-2	Germanium rectifier diode GY100	
00-560-3979-3	Germanium diode GAZ17	
00-560-3981-6	GAZ17 Special selection	

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
00-560-6891-7	Power diode SZ512	
00-560-6933-1	Silicon diode SZX18/6.8	
00-560-6986-2	Switching diode GAY60	
00-560-6988-7	Switching diode GAY61	
00-560-6990-1	Switching diode GAY62	
00-560-7040-5	SY170/1	
00-560-7041-3	SY170/2	
00-560-7043-8	SY171/1	
00-560-7044-6	SY171/2	
00-560-9525-3	AC40 diode	
00-560-9535-0	SY200 Silicon rectifier diode 75V 0.95A	
00-560-9558-3	Nixie display Indicator tube (Z570M)	New spares available
00-560-9569-7	Silicon-Planar-Diode SA403	
00-560-9575-1	1S79 Hitachi	
00-560-9585-6	1N35 Hitachi	
00-560-9590-3	1S78 Hitachi	
00-560-9600-4	Switching diode GAY63	
00-560-9635-0	Silicon rectifier diode SY200	
00-560-9639-1	Rectifier diode SY203	
00-560-9663-6	Silicon-Planar-Diode SA403	
00-560-9667-2	Silicon-Planar-Diode SA403	
00-560-9668-0	Silicon-Planar-Diode SA403	
00-560-9669-7	Silicon-Planar-Diode SA403	
00-560-9670-3	Silicon-Planar-Diode SA403	
00-560-9670-3	Silicon-Planar-Diode SA403	
00-560-9671-1	Silicon-Planar-Diode SA403	
00-560-9673-5	Silicon-Planar-Diode SA403	
00-560-9673-6	Silicon-Planar-Diode SA403	
00-560-9675-2	Silicon-Planar-Diode SA403	
00-560-9677-7	Silicon-Planar-Diode SA403	
00-560-9679-3	Silicon-Planar-Diode SA403	
00-560-9724-7	Rectifier diode KY130/150	
00-735-7251-2	Bag FOS 63x93 TGL 7-1023 Bl.1	
00-803-0403-8	Ferrite core memory 4x8x12 570000	
00-803-0871-6	Telephone lamp	
00-803-1701-8	Transistor socket	
00-803-1704-2	Transistor socket	
00-803-6033-4	Rotary switch	
00-803-6035-0	Small step switch	
00-803-7005-5	Microswitch (Mains switch)	Reclaimed spare parts available
00-803-7024-8	Microswitch (Keyboard switch)	Reclaimed spare parts available
00-803-9013-0	Mains cable assembly	
00-803-9014-7	Mains cable assembly export France	
00-803-9015-5	Mains cable assembly export CSSR	
00-803-9025-4	Mains cable assembly export England	
00-811-0430-2	Transistor pad	
00-812-0202-3	Absorption disk for all keys	
00-814-0150-3	Sliding sign	
00-825-0090-7	Dust cover	

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
05-000-0766-1	Washer	
05-000-0855-8	Washer 3.2x8x1	
05-000-0893-5	PVC washer	
05-000-0894-3	Washer 3x0.25x8	
05-000-2586-4	Tension spring 0.5-4—30	
05-000-2781-7	Compression spring	
05-000-2782-5	Compression spring	
05-220-1007-3	Key actuator for all other keys	
05-220-1008-6	Key actuator for Lö	
05-220-1013-7	Attaching bracket	
05-220-1017-8	Spacer piece	
05-220-1019-4	Support angle	
05-220-1020-0	Key 0	
05-220-1021-7	Key 1	
05-220-1022-5	Key 2	
05-220-1023-3	Key 3	
05-220-1024-1	Key 4	
05-220-1025-8	Key 5	
05-220-1026-6	Key 6	
05-220-1027-4	Key 7	
05-220-1028-2	Key 8	
05-220-1029-0	Key 9	
05-220-1030-5	Key ,	
05-220-1031-3	Key C	
05-220-1032-1	Key Lö	
05-220-1033-8	Key Memory recall without reset	
05-220-1034-6	Key for all Memory Addition +	
05-220-1035-4	Key for all Memory Subtraction -	
05-220-1036-2	Key Memory recall with reset Lö I*	
05-220-1037-0	Key Memory recall with reset Lö II*	
05-220-1038-7	Key Memory recall with reset Lö III*	
05-220-1039-5	Key Result =	
05-220-1040-1	Key Multiplication X	
05-220-1041-8	Key Division :	
05-220-1042-6	Key Memory addition +	
05-220-1043-4	Key Subtraction -	
05-220-1044-2	Key Exponentiation Xn	
05-220-1045-0	Key Negate all input #	
05-220-1095-7	Attaching bracket	
05-220-1096-5	Upper keyboard guide plate	
05-220-1097-3	Printed circuit board	
05-220-1098-1	Threaded spacer	
05-220-3003-2	Cover plate	
05-220-3003-6	Cover	
05-220-3009-3	Base plate	
05-220-3022-0	Mounting screw	
05-220-3023-7	Cabinet retaining piece left (plastic)	New 3D printed spare parts available
05-220-3024-5	Cabinet retaining piece right (plastic)	New 3D printed spare parts available
05-220-3027-8	Mounting screw	

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
05-220-5008-0	Mounting plate	
05-220-5008-0	Bracket	
05-220-7001-0	Printed circuit board #1	
05-220-7002-5	Printed circuit board #2	
05-220-7003-5	Printed circuit board #3	
05-220-7004-3	Printed circuit board #4	
05-220-7005-1	Printed circuit board #5	
05-220-7006-8	Printed circuit board #6	
05-220-7007-6	Printed circuit board #7	
05-220-7008-4	Printed circuit board #8	
05-220-7009-2	Printed circuit board #9	
05-220-7010-7	Printed circuit board #10	
05-220-7011-5	Printed circuit board #11	
05-220-7012-3	Printed circuit board #12	
05-220-7015-6	PCB guide front	
05-220-7016-4	PCB guide rear	
05-220-7017-2	Side panel left	
05-220-7020-3	Spindle	
05-220-7022-8	Mounting plate left	
05-220-7023-6	Threaded spacer	
05-220-7026-0	Mounting plate right	
05-220-7042-0	Retaining bracket	
05-220-8009-0	Fuse holder	
05-220-8015-8	Power supply PCB (found in ETR222 S# 74005)	
05-220-8025-4	Thermistor mount	
05-220-9052-2	Spacer piece	
05-223-2006-0	Cover plate	
05-382-2715-3	Plate	
06-220-1010-0	Side wall right	
06-220-1078-5	Control wheel	
06-220-1079-3	Dial	
06-220-1099-4	Cable loom	
06-220-2101-7	Transistor housing	
06-220-3002-4	Keyboard cover	
06-220-3025-8	Cabinet retaining detent latch right	
06-220-3026-6	Cabinet retaining detent latch left	
06-220-3101-7	Baseplate (special order)	
06-220-5001-1	Display framework	
06-220-5003-6	Complete wiring harness	
06-220-5003-6	Cable loom assembly	
06-220-7018-5	Side panel right	
06-220-7018-5	Side wall right	
06-220-7044-1	Short circuit plug	
06-220-8009-0	Fuse holder	
06-220-8011-3	Tag board	
06-220-9099-4	Complete wiring harness	
12-00-803-0307-8	Basket without plates	
12-382-2715-7	Rectifier bracket assembly	
12-382-2717-3	Rectifier bracket assembly	

Part #	Description	Notes
14-220-7041-7	Transformer assembly	
14-220-7042-5	Transformer assembly	
14-220-7043-3	Transformer assembly	
14-220-7049-0	Transformer assembly	
14-220-7050-5	Wiring harness plug-in unit	
14-220-8024-2	Voltage selector switch assembly	
16-220-1079-4	Complete wiring harness	
18-220-1095-5	Complete rotary switch assembly	
18-220-1195-6	Complete small step switch assembly	
18-220-7030-6	Wiring harness assembly	
20-220-1097-7	Complete circuit board with Key switches	Reclaimed spare part assembly available
20-220-5002-7	Complete display printed circuit board	
20-220-7001-4	Board 1 plug in unit	
20-220-7002-2	Board 2 plug in unit	
20-220-7003-0	Board 3 plug in unit	
20-220-7004-7	Board 4 plug in unit	
20-220-7005-5	Board 5 plug in unit	
20-220-7006-3	Board 6 plug in unit	
20-220-7007-1	Board 7 plug in unit	
20-220-7008-8	Board 8 plug in unit	
20-220-7009-6	Board 9 plug in unit	
20-220-7010-2	Board 10 plug in unit	
20-220-7011-0	Board 11 plug in unit	
20-220-7012-7	Board 12 plug in unit	
20-220-8008-1	Transformer assembly	
220-113-009	PSU transistor cover (found on ETR22 S#74005)	
220-117-015	Card cage guide plate (left-right ?)	
220-117-016	Card cage guide plate (left-right ?)	Has an extra four M3 countersunk holes
220-317-001	PCB Board assembly #1	
220-317-002	PCB Board assembly #2	
220-317-003	PCB Board assembly #3	Reclaimed spare part assembly available
220-317-004	PCB Board assembly #4	Reclaimed spare part assembly available
220-317-005	PCB Board assembly #5	Reclaimed spare part assembly available
220-317-006	PCB Board assembly #6	Reclaimed spare part assembly available
220-317-007	PCB Board assembly #7	Reclaimed spare part assembly available
220-317-008	PCB Board assembly #8	Reclaimed spare part assembly available
220-317-009	PCB Board assembly #9	
220-317-010	PCB Board assembly #10	Reclaimed spare part assembly available
220-317-011	PCB Board assembly #11	
220-317-012	PCB Board assembly #12	Reclaimed spare part assembly available
220-518-003/5	PSU transformer (found in ETR222 S#74005)	
22-220-1096-1	Keyboard assembly	
22-220-8001-7	Power supply rack	
22-220-8007-4	Heat sink assembly	
22-220-8015-2	Complete power supply wiring harness	
22-220-8015-4	Power supply PCB	
22-220-8016-2	Wiring harness	
22-220-8018-7	Earth cable assembly	
22-220-8019-5	Earth cable assembly	

<u>Part #</u>	<u>Description</u>	<u>Notes</u>
224-101-001	224 Keyboard guide plate	
30-220-5000-3	Display assembly	
30-220-7000-7	Arithmetic unit assembly	
30-220-8000-0	Power supply assembly	
30-920-4200-7	Minitester overlay panel	
50-100-007	Minitester overlay panel	
65-220-7019-7	Mounting plate for connector	
66-220-7644-1	Short-circuit plug	
70-220-0000-6	Parts list catalog	