

RevNo	Revision note	Date	By	Checked
-	-	-	-	-

PRINTER

To V13 32pin Cable Plug  
Selector assys from drivers

0V	PLV13-1	Black	0V
-12V	PLV13-2	Black	-12V
+12V	PLV13-3	Green	+12V
Start print	PLV13-4	Green	DRV-START
Coloum 4 coil	PLV13-5	Black	COL4-1
Coloum 3 coil	PLV13-6	Green	COL3-1
Coloum 14 coil	PLV13-7	Green	COL14-1
Coloum 13 coil	PLV13-8	Black	COL13-1
Coloum 8 coil	PLV13-9	Green	COL8-1
Coloum 7 coil	PLV13-10	Black	COL7-1
Coloum 10 coil	PLV13-11	Green	COL10-1
Coloum 9 coil	PLV13-12	Black	COL9-1
Coloum 12 coil	PLV13-13	Green	COL12-1
Coloum 11 coil	PLV13-14	Black	COL11-1
Coloum 6 coil	PLV13-15	Green	COL6-1
Coloum 5 coil	PLV13-16	Black	COL5-1
Coloum 16 coil	PLV13-17	Green	COL16-1
Coloum 15 coil	PLV13-18	Black	COL15-1
Coloum 2 coil	PLV13-19	Green	COL2-1
Coloum 1 coil	PLV13-20	Black	COL1-1
Coloum 17 coil	PLV13-21	Green	COL17-1
Coloum 18 coil	PLV13-22	Black	COL18-1
Double space coil	PLV13-23	Green	DBL-1
-UA	PLV13-24	Black	-UA
-UA(D)	PLV13-25	Green	-UA(D)
R (Double space input 1)	PLV13-26	Black	R
Position clock	PLV13-27	Green	DRV-DBL
Double space drive	PLV13-28	Green	DRV-DBL2
Double space input 2	PLV13-29	Grey	
Power ON light	PLV13-30	Green	KS3NC
Double space coil	PLV13-31	Black	RB-1
Red/Black coil	PLV13-32	Black	RB-1

The order of Columns 17/18 appears reversed, check wiring

Printer connector  
20pin Cable Socket  
(To PPL3)

0V	PSK3-1	Grey	0V
-12V	PSK3-2	Green	-12V
Position clock	PSK3-3	Grey	PCLK
Double space	PSK3-4	Grey	DBL-1
Red/Black	PSK3-5	Green	DBL-2
Print (Start)	PSK3-6	Green	RB-1
Power ON light	PSK3-7	Green	RB-2
Print (Start)	PSK3-8	Green	START-1
Power ON light	PSK3-9	Grey	PWR-ON
Print (Start)	PSK3-13	Grey	START-2

20pin Cable Socket  
Front Selector Magnet Assy

COL4-2	PSK5-1	Grey
COL4-1	PSK5-2	Green
COL3-2	PSK5-3	Grey
COL3-1	PSK5-4	Green
COL8-1	PSK5-5	Green
COL8-2	PSK5-6	Green
COL7-2	PSK5-7	Green
COL7-1	PSK5-8	Green
COL12-2	PSK5-9	Yellow
COL12-1	PSK5-10	Green
COL11-2	PSK5-11	Grey
COL11-1	PSK5-12	Green
COL16-2	PSK5-13	Grey
COL16-1	PSK5-14	Green
COL15-2	PSK5-15	Grey
COL15-1	PSK5-16	Green

Front selector magnet assembly

Printer assy

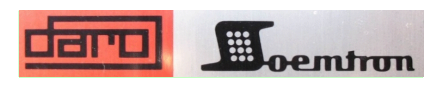
Print wheel columns are numbered RIGHT to LEFT when viewed from the FRONT of the mechanism

20pin Cable Socket  
Rear Selector Magnet Assy

COL18-2	PSK4-1	Grey
COL18-1	PSK4-2	Green
COL17-2	PSK4-3	Green
COL17-1	PSK4-4	Green
COL14-2	PSK4-5	Grey
COL14-1	PSK4-6	Green
COL13-2	PSK4-7	Green
COL13-1	PSK4-8	Green
COL10-2	PSK4-9	Green
COL10-1	PSK4-10	Green
COL9-2	PSK4-11	Green
COL9-1	PSK4-12	Green
COL6-2	PSK4-13	Green
COL6-1	PSK4-14	Green
COL5-2	PSK4-15	Green
COL5-1	PSK4-16	Green
COL2-2	PSK4-17	Green
COL2-1	PSK4-18	Green
COL1-2	PSK4-19	Green
COL1-1	PSK4-20	Green

Rear selector magnet assembly

Black	UKT101	-UA
Grey	UKT102	START-2
Grey	UKT103	COL4-1
Green	UKT104	COL4-1
Green	UKT105	COL4-2
Black	UKT106	COL3-1
Green	UKT107	COL3-1
Green	UKT108	COL3-2
Grey	UKT109	COL14-1
Green	UKT110	COL14-1
Green	UKT111	COL14-2
Grey	UKT112	COL13-1
Black	UKT113	COL13-1
Green	UKT114	COL13-2
Grey	UKT115	COL8-1
Green	UKT116	COL8-1
Green	UKT117	COL8-2
Grey	UKT118	COL7-1
Black	UKT119	COL7-1
Green	UKT120	COL7-2
Grey	UKT121	COL10-1
Green	UKT122	COL10-1
Green	UKT123	COL10-2
Grey	UKT124	COL9-1
Black	UKT125	COL9-1
Green	UKT126	COL9-2
Grey	UKT127	COL12-1
Green	UKT128	COL12-1
Green	UKT129	COL12-2
Grey	UKT130	COL11-1
Black	UKT131	COL11-1
Green	UKT132	COL11-2
Green	UKT133	-UA(D)
Green	UKT134	COL6-2
Grey	UKT135	COL6-1
Green	UKT136	COL6-1
Green	UKT137	COL5-2
Grey	UKT138	COL5-1
Black	UKT139	COL5-1
Green	UKT140	COL16-2
Grey	UKT141	COL16-1
Green	UKT142	COL16-1
Green	UKT143	COL15-2
Grey	UKT144	COL15-1
Black	UKT145	COL15-1
Green	UKT146	COL2-2
Grey	UKT147	COL2-1
Green	UKT148	COL2-1
Green	UKT149	COL1-2
Grey	UKT150	COL1-1
Black	UKT151	COL1-1
Green	UKT152	COL17-2
Grey	UKT153	COL17-1
Black	UKT154	COL17-1
Green	UKT155	COL18-2
Grey	UKT156	COL18-1
Black	UKT157	COL18-1
Green	UKT158	DBL-2
Green	UKT159	DBL-1
Green	UKT160	DBL-1
Grey	UKT161	RB-2
Black	UKT162	RB-1
Green	UKT163	RB-1
Green	UKT164	DRV-START
Black	UKT165	0V
Green	UKT166	KS3NC
Green	UKT167	START-1
Grey	UKT168	0V
Black	UKT169	DRV-DBL
Green	UKT170	-12V
Black	UKT171	-12V
Black	UKT172	R
Blue	UKT173	DRV-DBL2
Grey	UKT174	PCLK(OLD)
Green	UKT175	+12V
Green	UKT176	PCLK(OLD)



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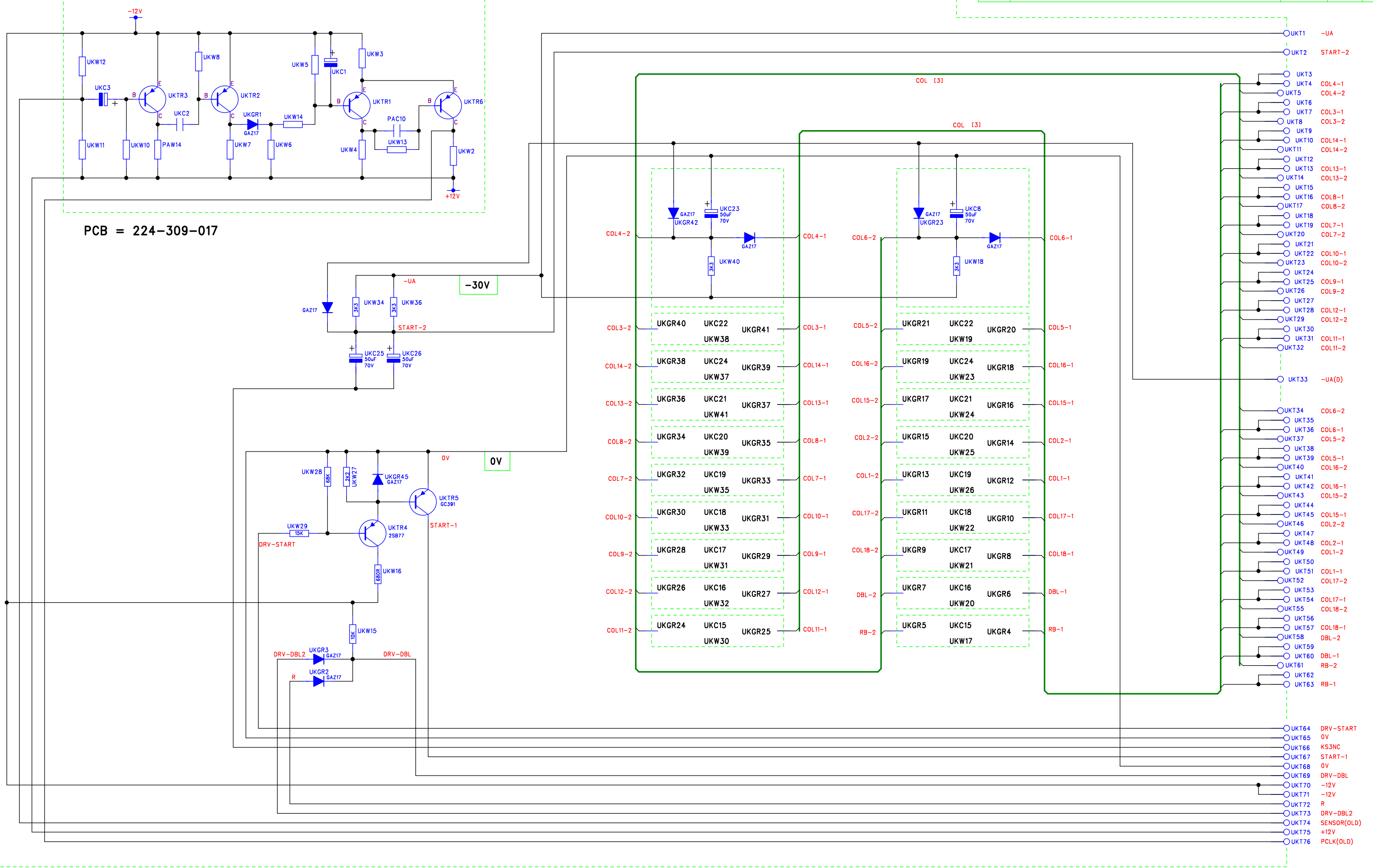
Pcb Dwg # =	Name	Date	Scale	Nts	Title
	MD Hatch	28/4/2011	Sheet	2	Soemtron ETR 224 Calculator
Drawn			Next Sheet	3	Under keyboard - Wiring
Checked			Drawing Number		Cable Loom Wiring Diagram
					Soemtron 224
					A2 Issue A

These diagrams are referenced to 0V - Logical 1 = -12v, logical 0 = 0V

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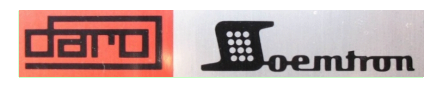
Original photosensor amplifier layout

These components are not fitted - see sheet 4, Printer Assembly Wiring



PCB = 224-309-017

These diagrams are referenced to 0V - Logical 1 = -12v, logical 0 = 0V



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Pcb Dwg # =

Name	Date
MD Hatch	11/4/2011

Scale	Nts
Sheet 3	4
Next Sheet	
Drawing Number	

Title **Soemtron ETR 224 Calculator**  
**Under Keyboard PCB**  
 224-309-017 - Circuit Diagram  
 Soemtron 224 A2 Issue A