

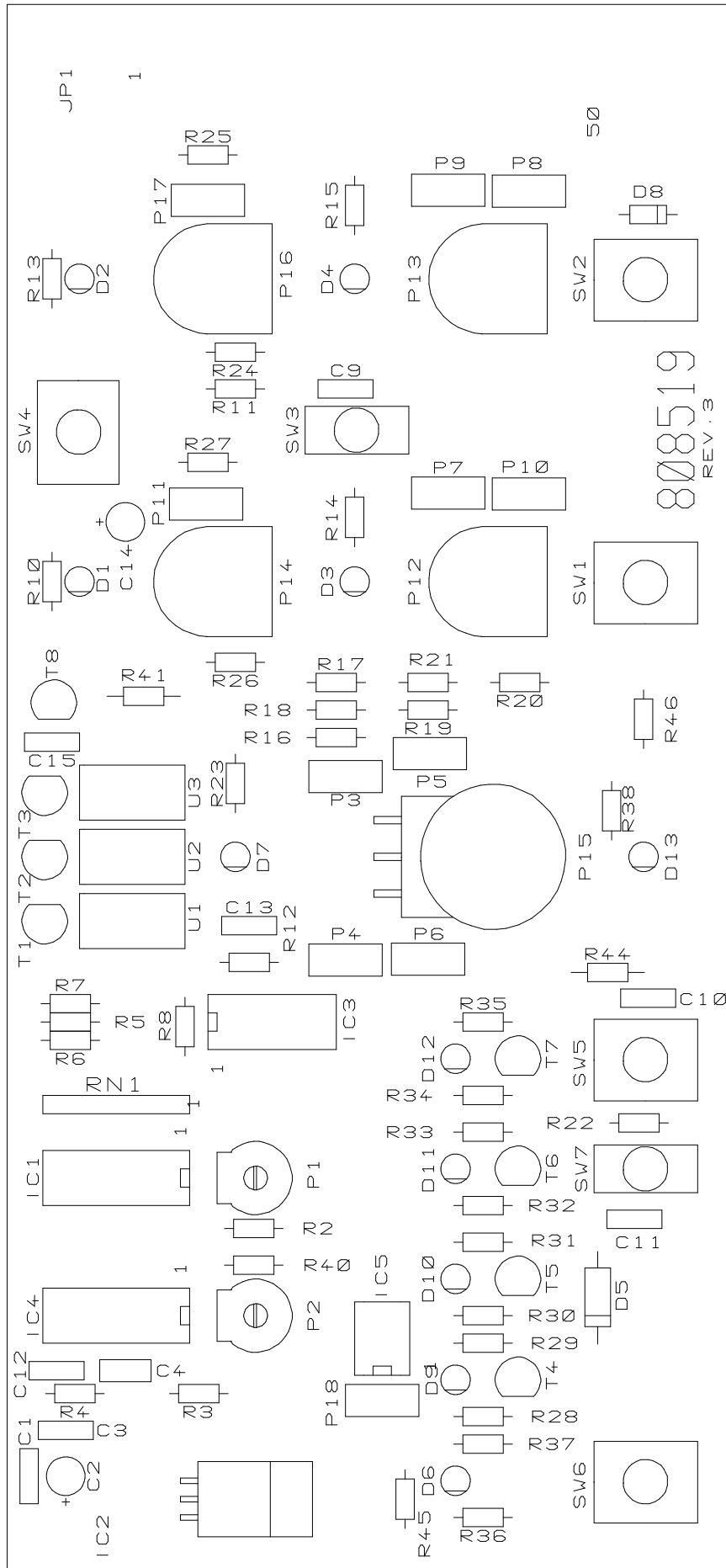
This document contains the diagrams and settings for all GL electronic configurations with the motherboard #454578. The motherboard #454578 replaces all other motherboards used on the following processors:

GL291 for Dolev 4Press	Motherboard #890635
GL291 for Dolev 250/450	Motherboard #890423
GL361 for Dolev 800	Motherboard #890423
GL361 for Herkules	Motherboard #890402
GL541 for Apollo/Signasetter	Motherboard #890423
Some older off-line processors	

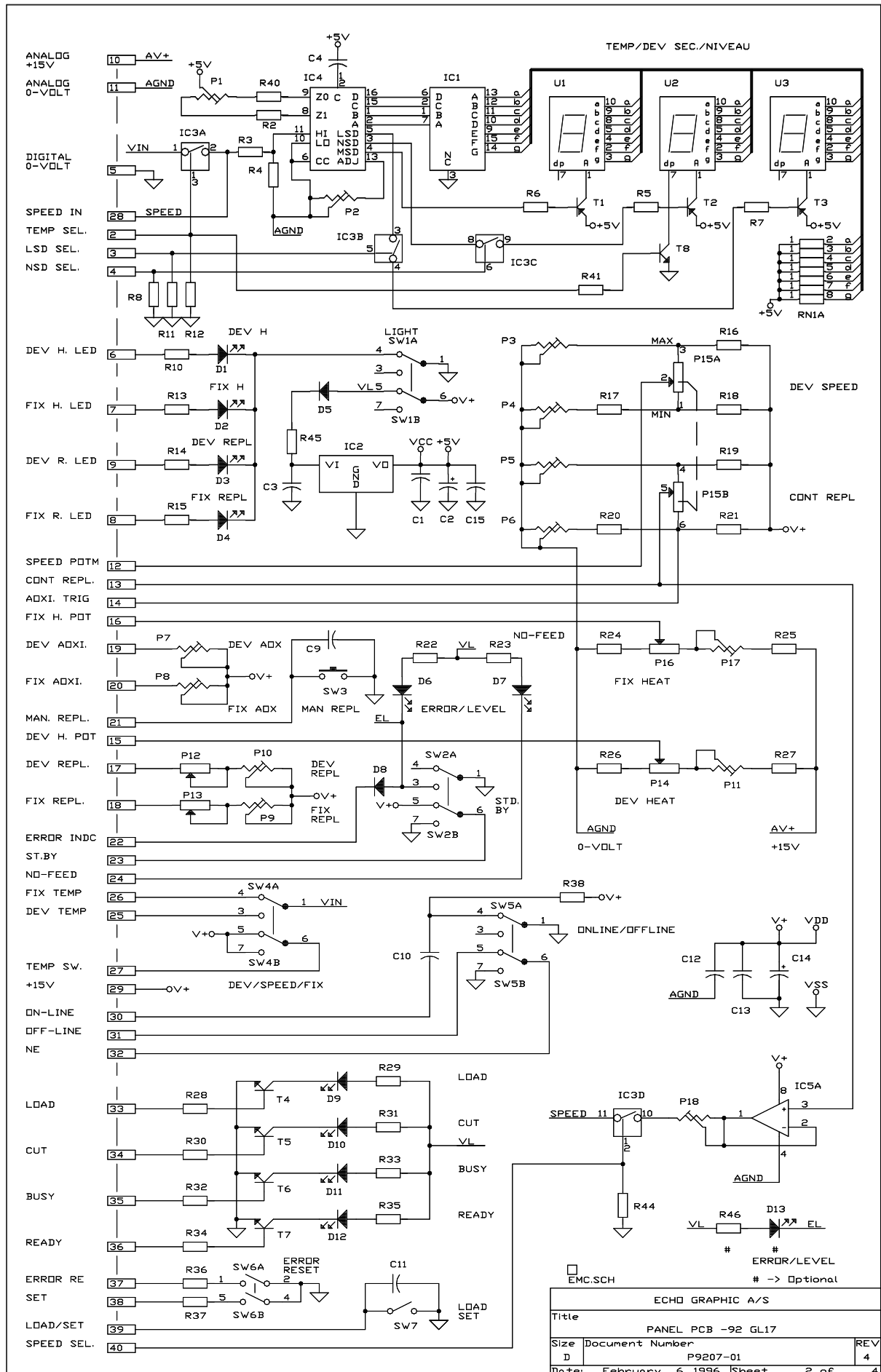
PCB Name	Part No.	Diagram drawing	Location drawing	Page
Motherboard:	454578	P9707-01	P9707	4
Repl/Aoxi.	444499	P8403-2	P8403	6
Temp. Ctrl.	890557	P9311-01	P9303	8
Level. Ctrl.	911874	P8405-0	P8405	10
Film. Sw.	129078	P9310-02	P9311	12
Speed. Ctrl.	911937	P9700-0	P9700	14
Process.	911889	P8505-0	P8505	16
Pulse. Gen.	911873	P8402-0	P8402	18
Film Transport	129079	P9411-02	P9411	20
Relay	890602	P9404-01	P9208	22
Panel Pcb	890421	P9207-01	P9207	2
Interface PCB's:				
Dolev 800 V2	890640	P9500-01	P9500	24
Dolev 800V3-4	317075	P0100-01	P0100	26
Dolev 4Press	129058	P9505-01	P9505	28
Dolev 250-450	890484	P9300-01	P9300	30
Apollo/Signa	454069	P9901-01	P9803	32
Herkules	890515	P9304-01	P9304	34
Settings/configurations with new PCB. SEE BEFORE ORDERING!!!				36

For other PCB's please contact the Echo Graphic service department.

Service@echographic.dk or cunsult www.echographic.dk/service



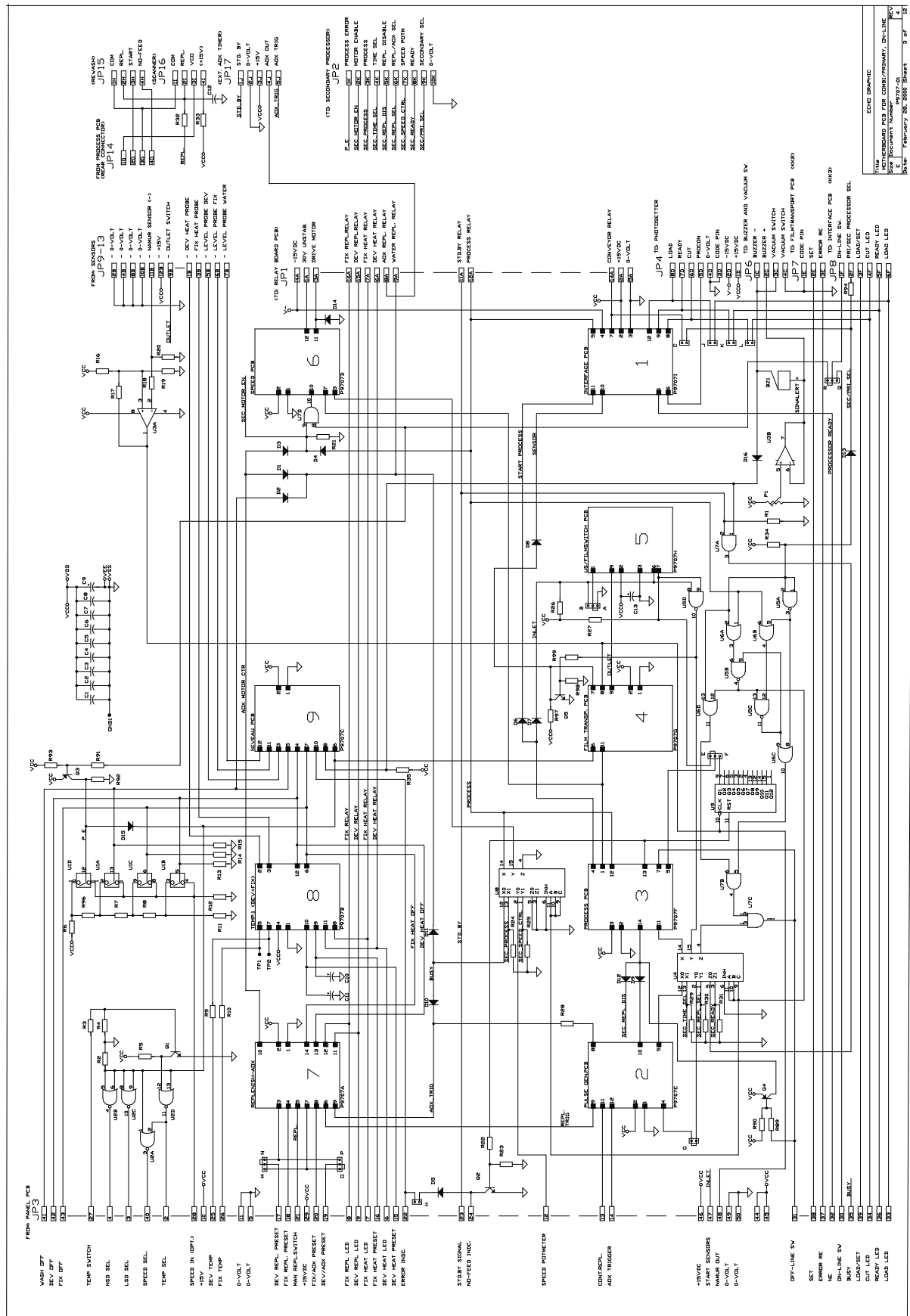
Panel PCB, Location Drawing P9207

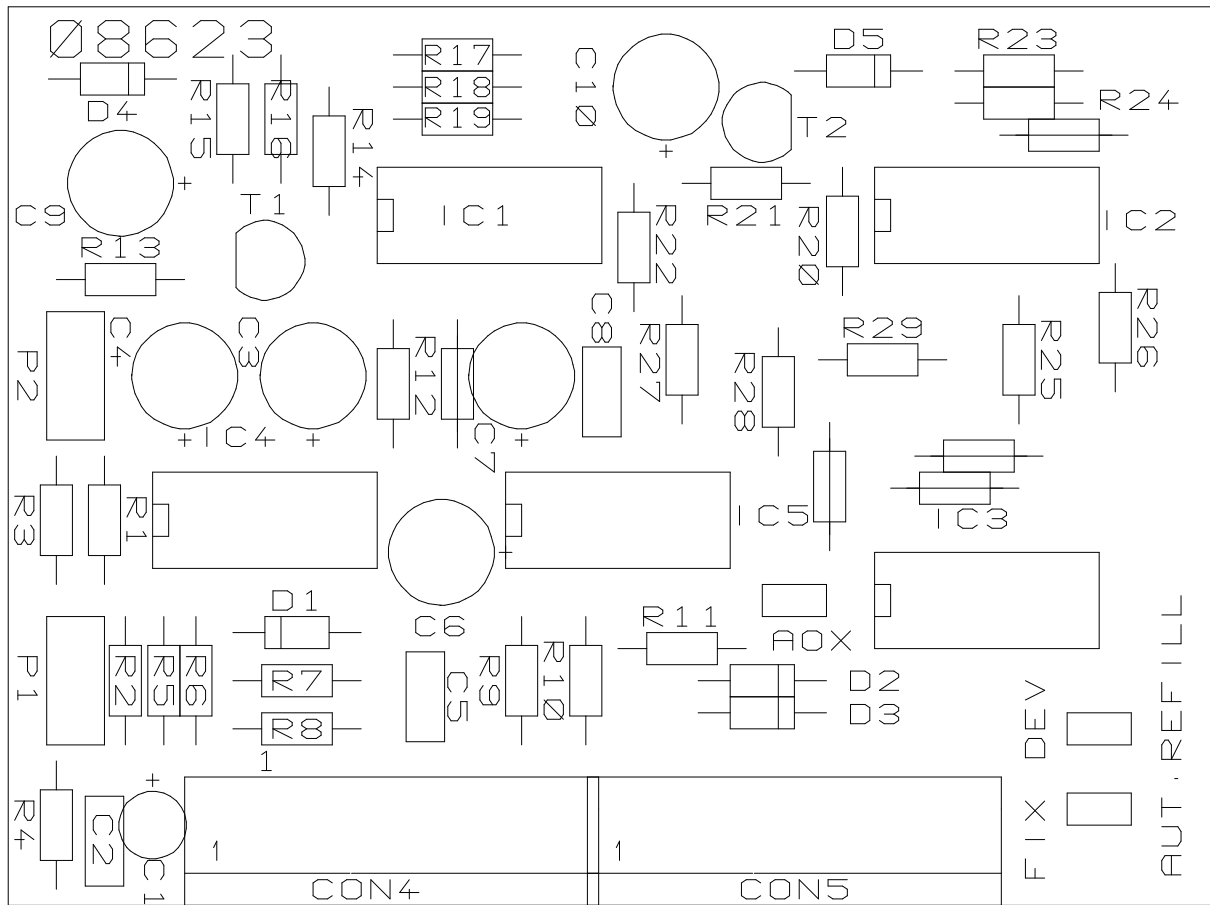


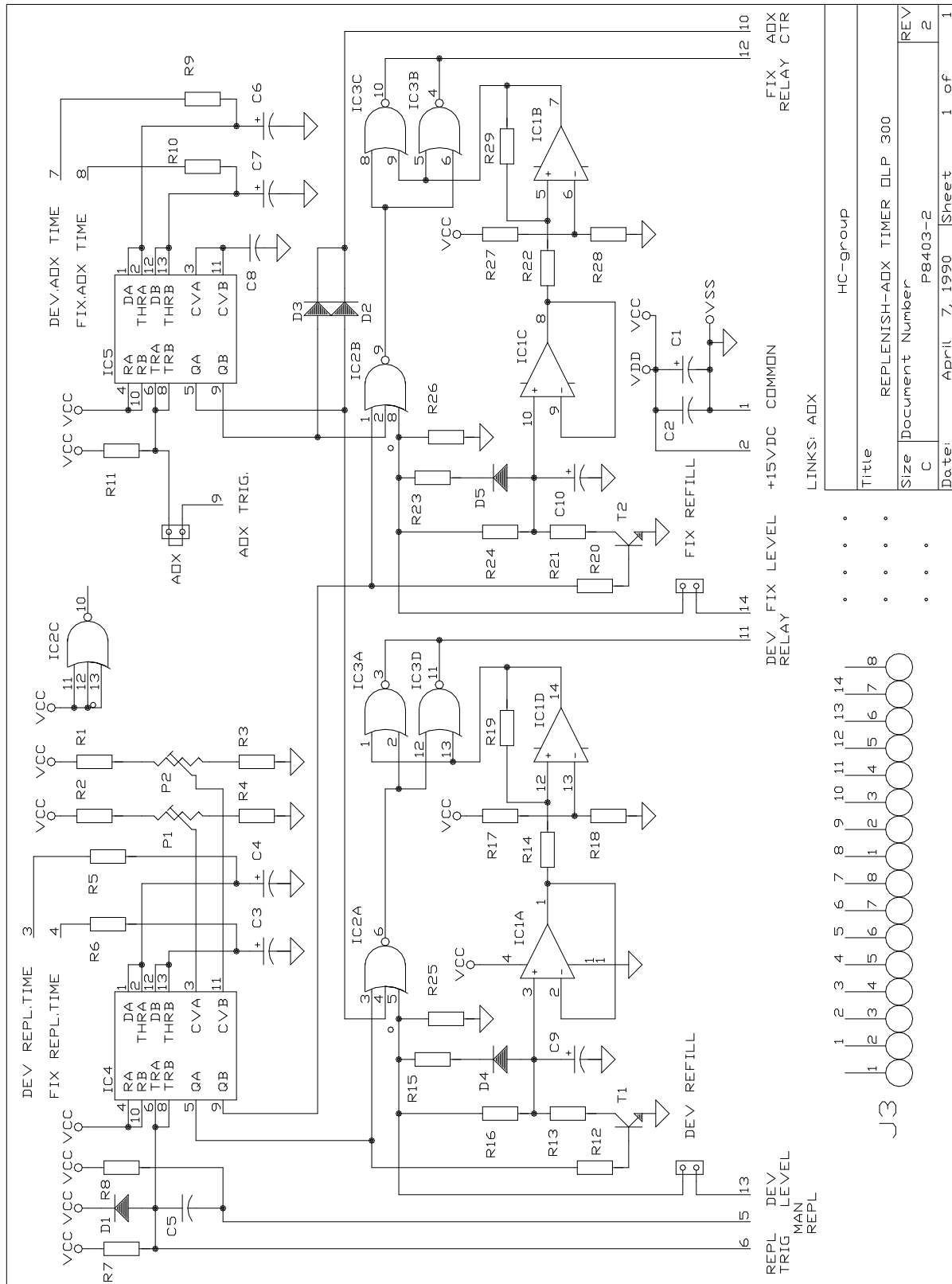
Panel PCB, Drawing P9207-01

Motherboard PCB, Location Drawing P9707

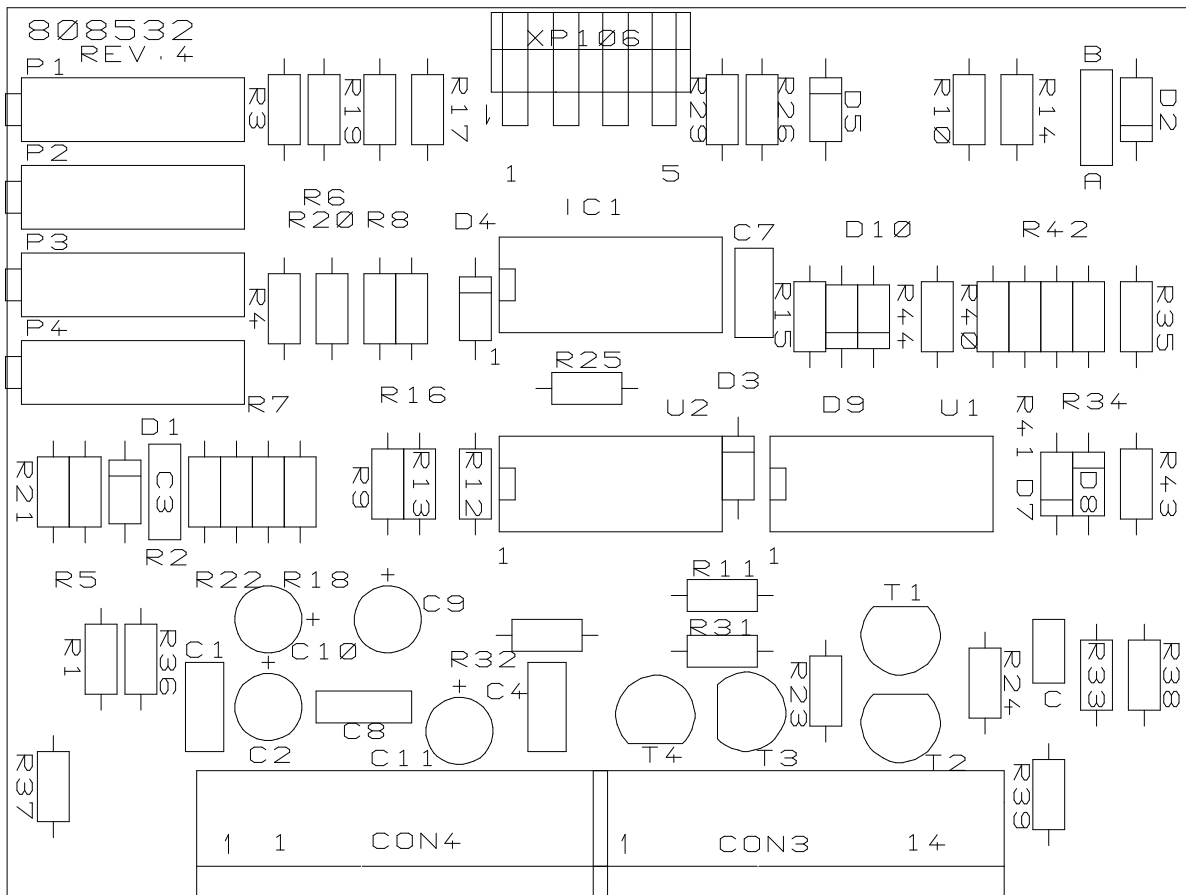


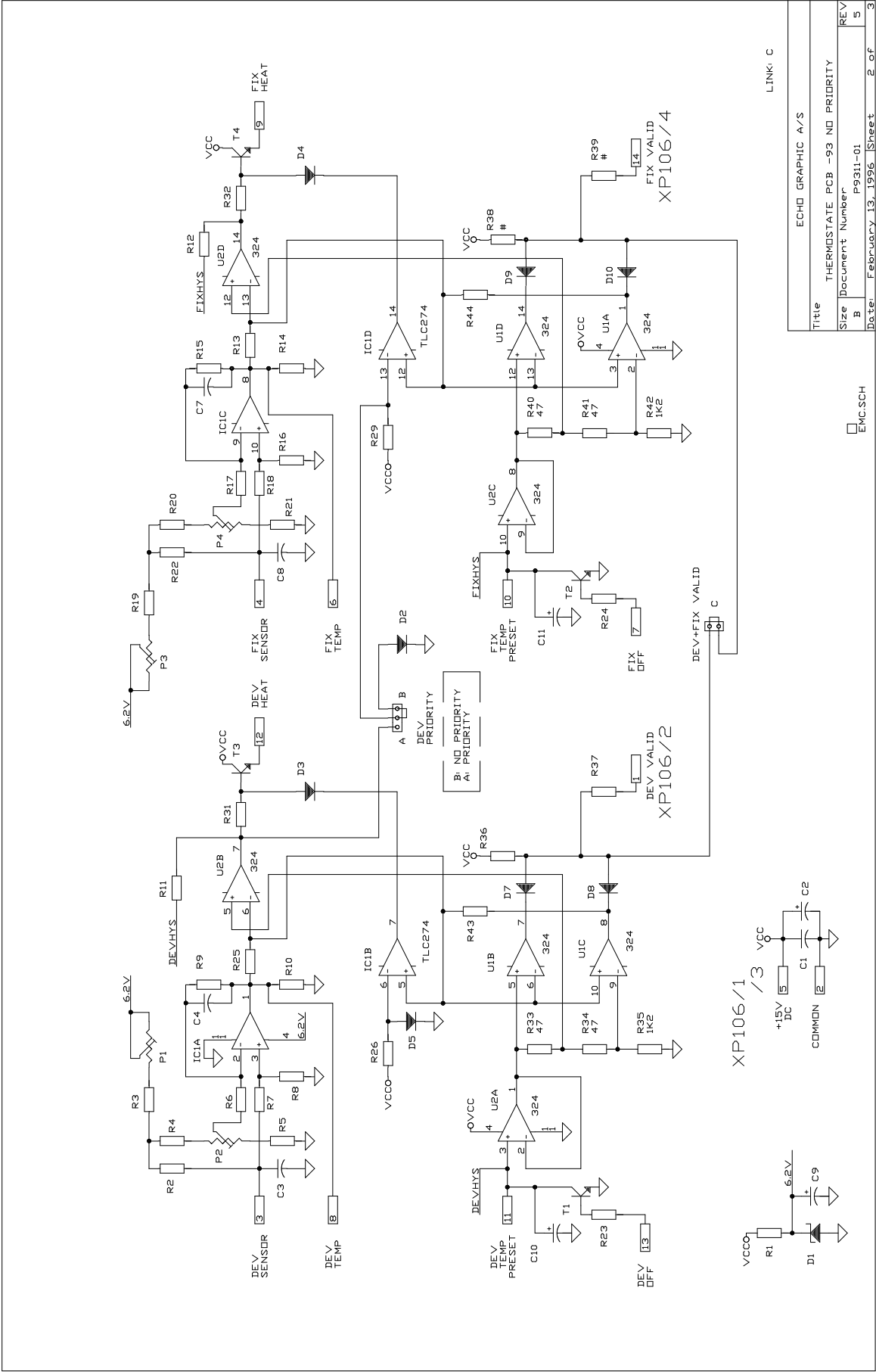






Replenish/AOX Timer PCB #444499 , Diagram P8403-2





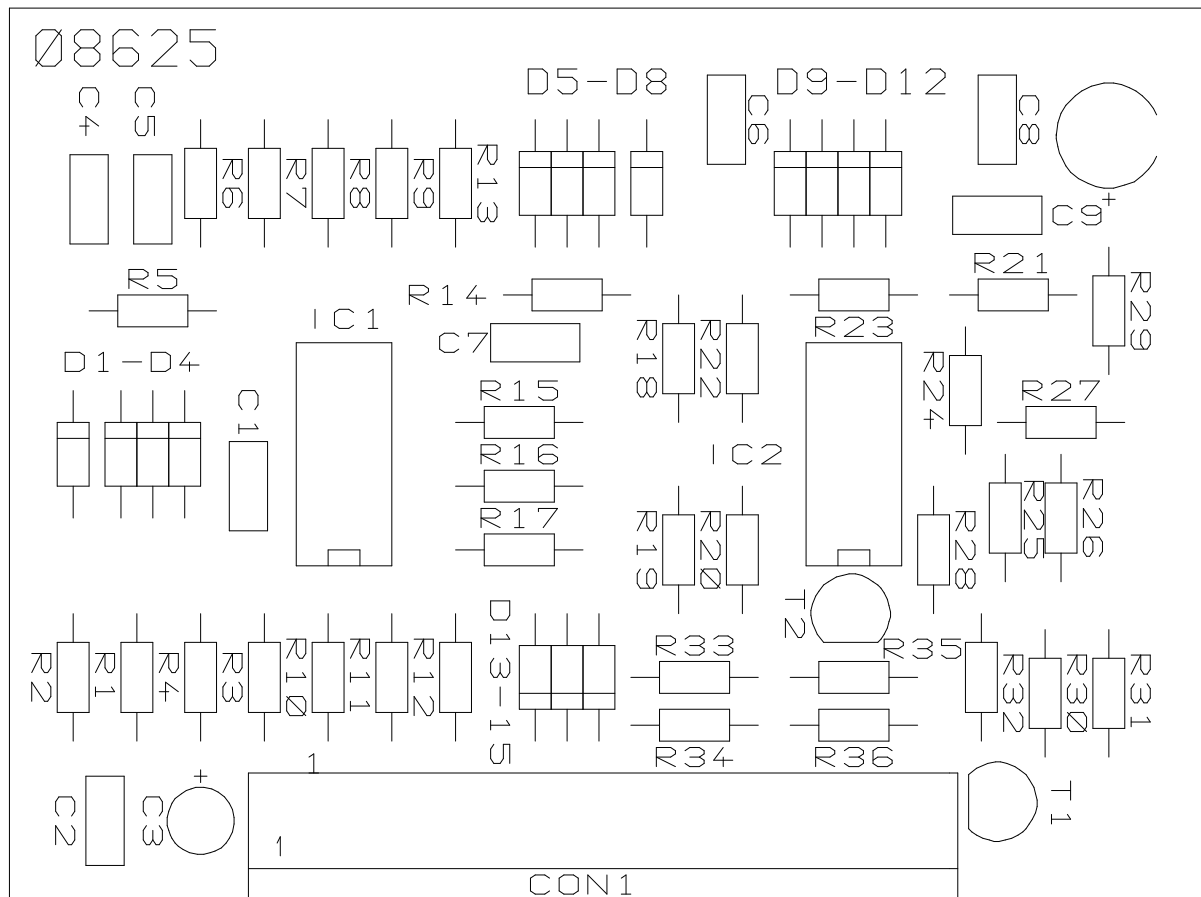
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Size		THERMSTATE PCB -93 NO PRIORITY	
Document Number		P9311-01	
REV		5	

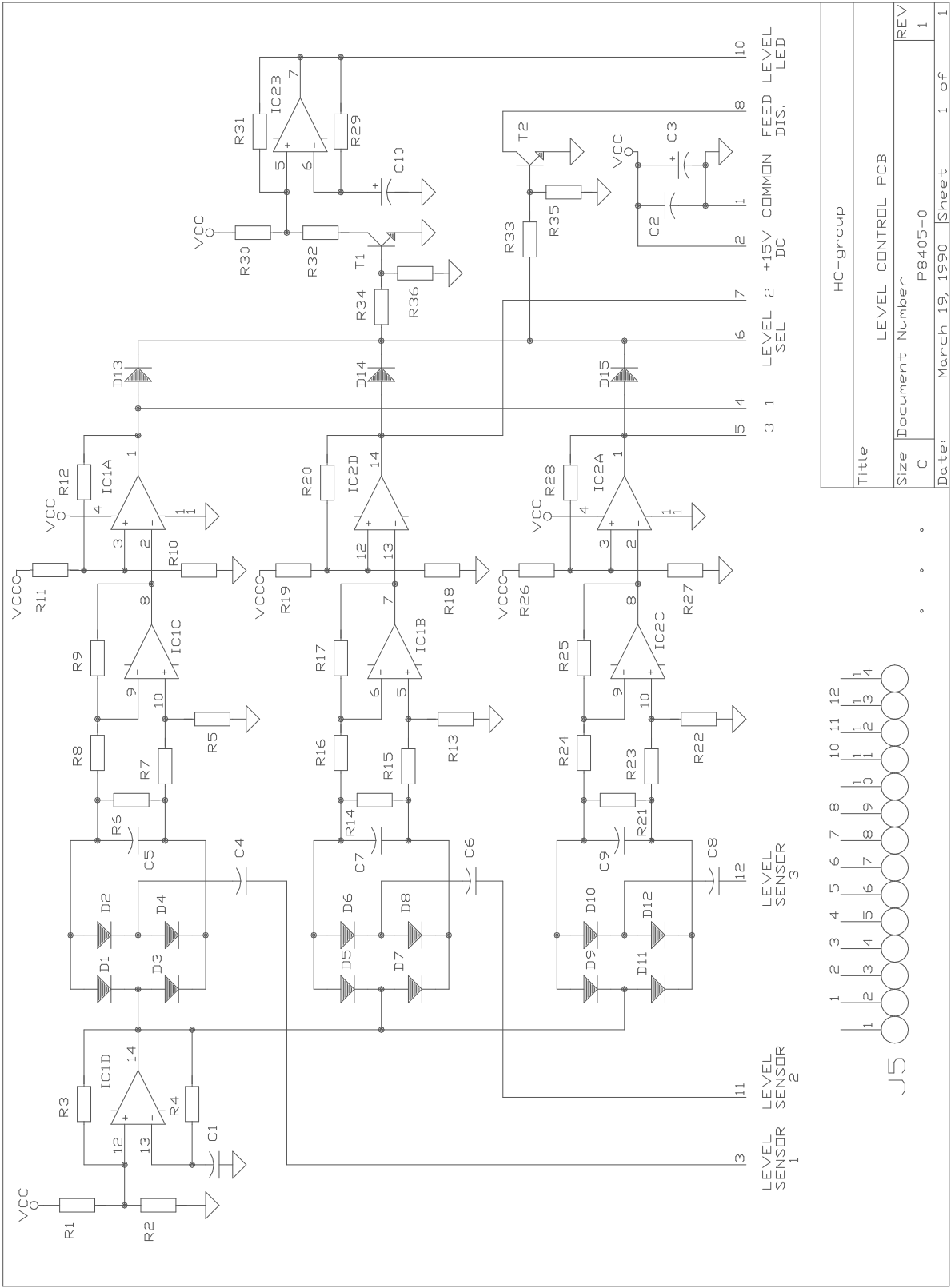
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Sheet		2 of 3	

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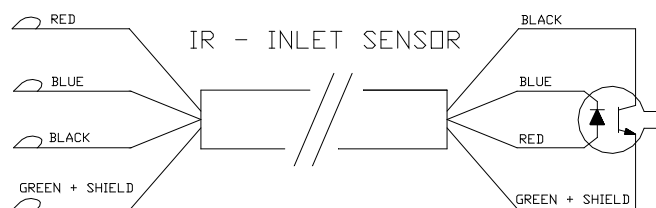
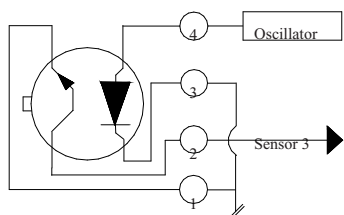
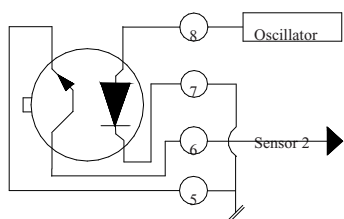
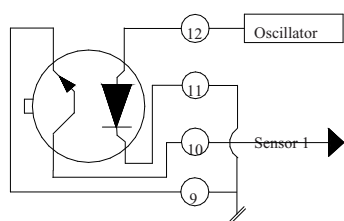
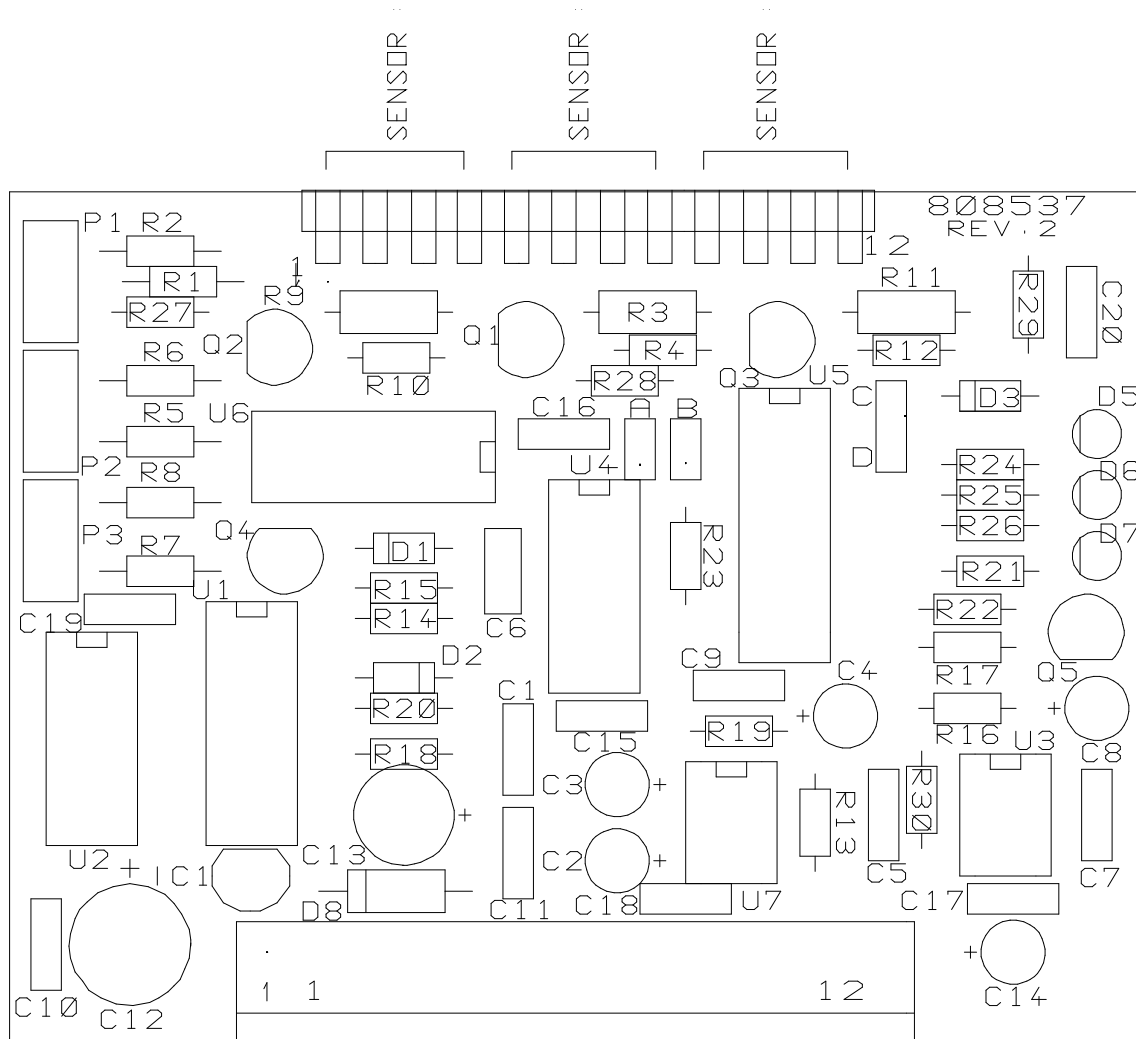
Temperature PCB #890557, Diagram P9311-01



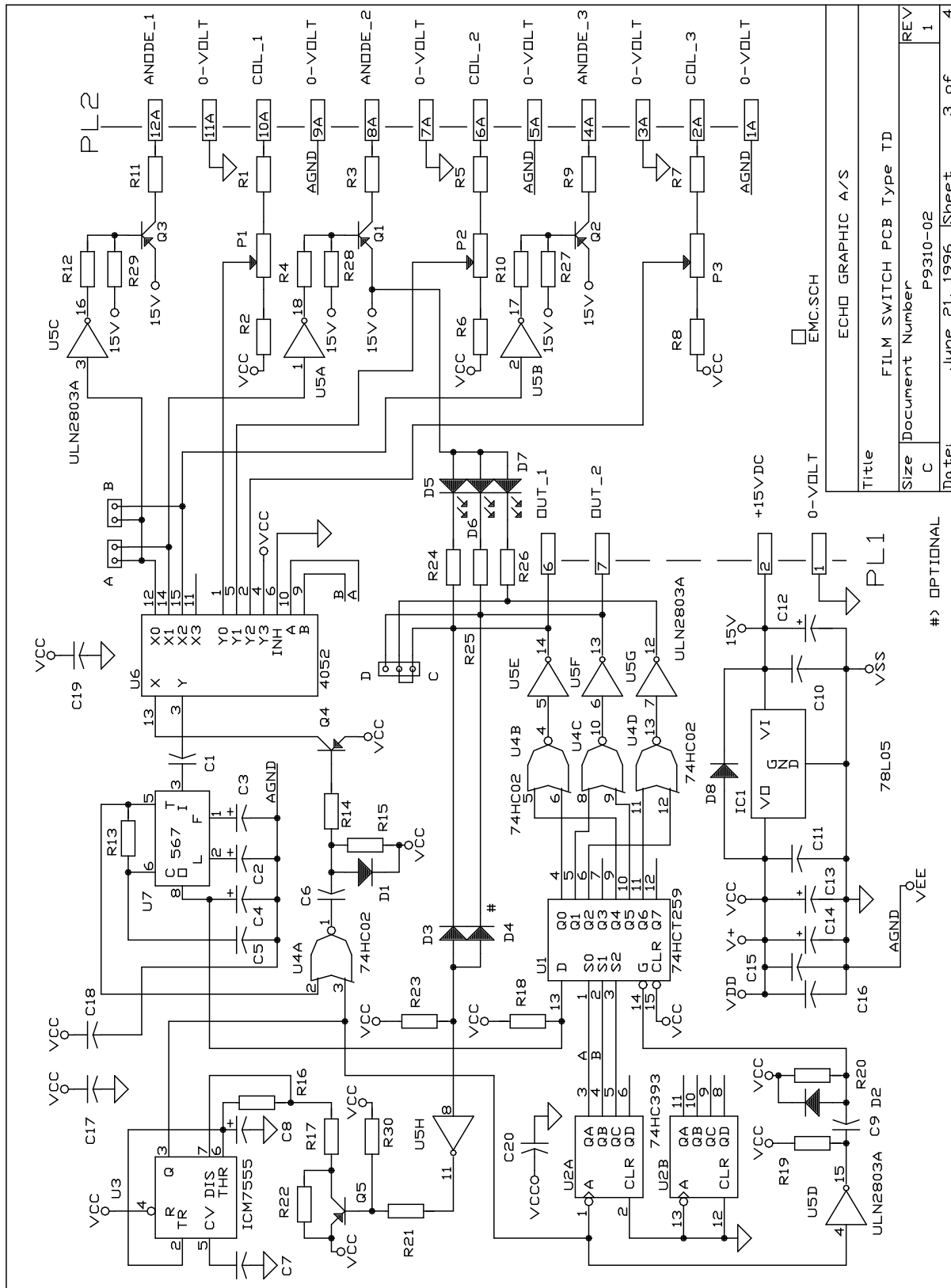


Level PCB # 911874 , Diagram P8405-0

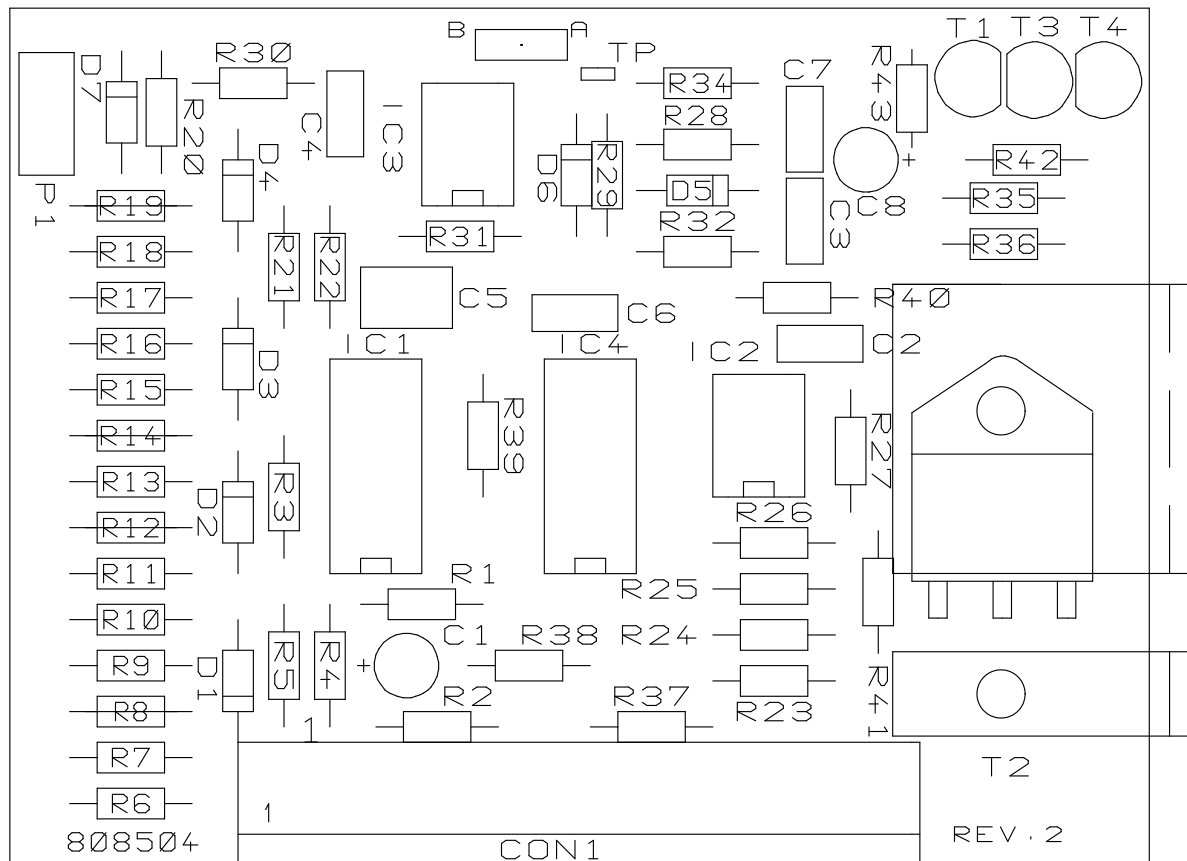
Fade_out of GL Processors

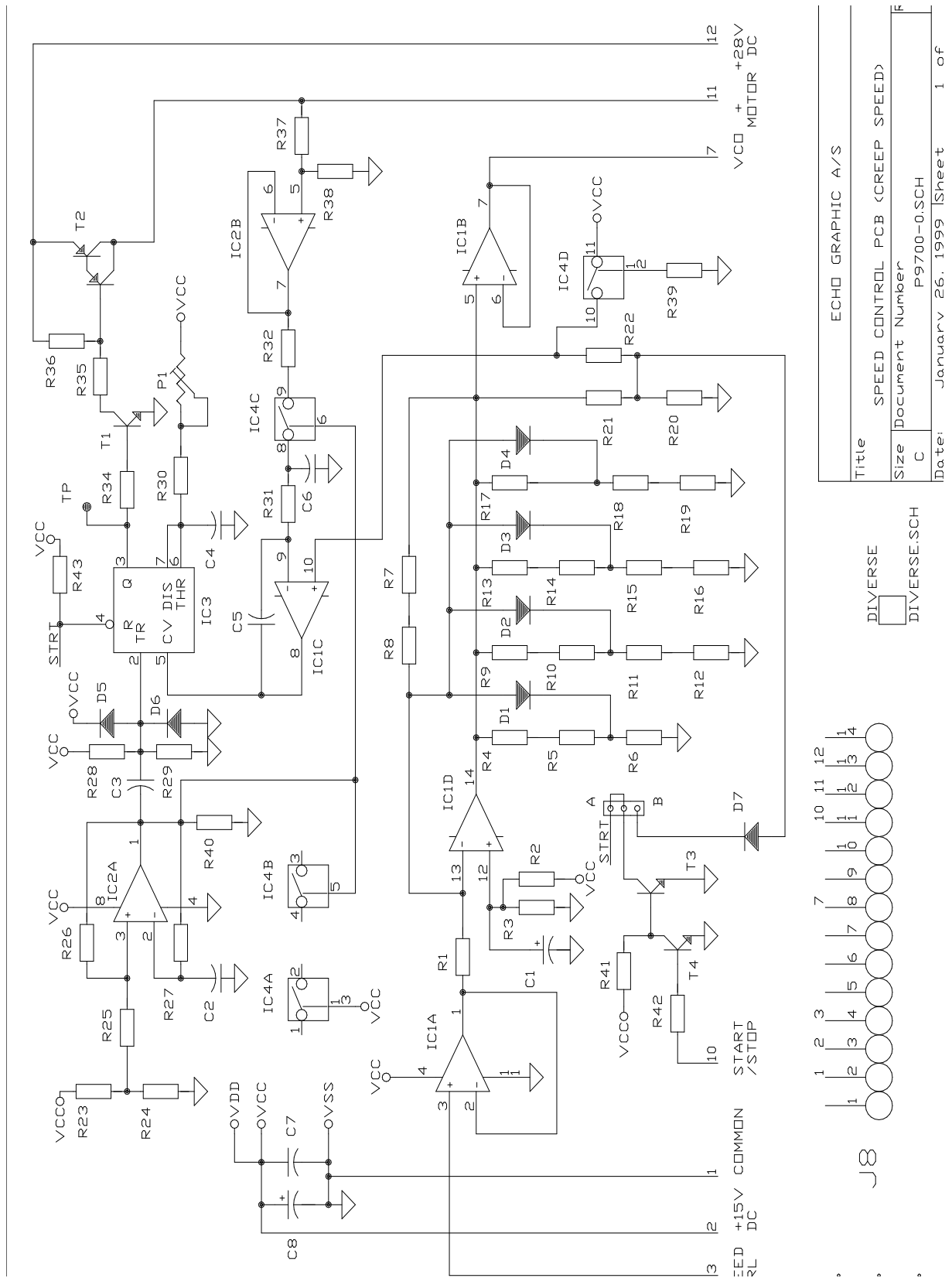


Filmswitch PCB, Location Drawing P9311

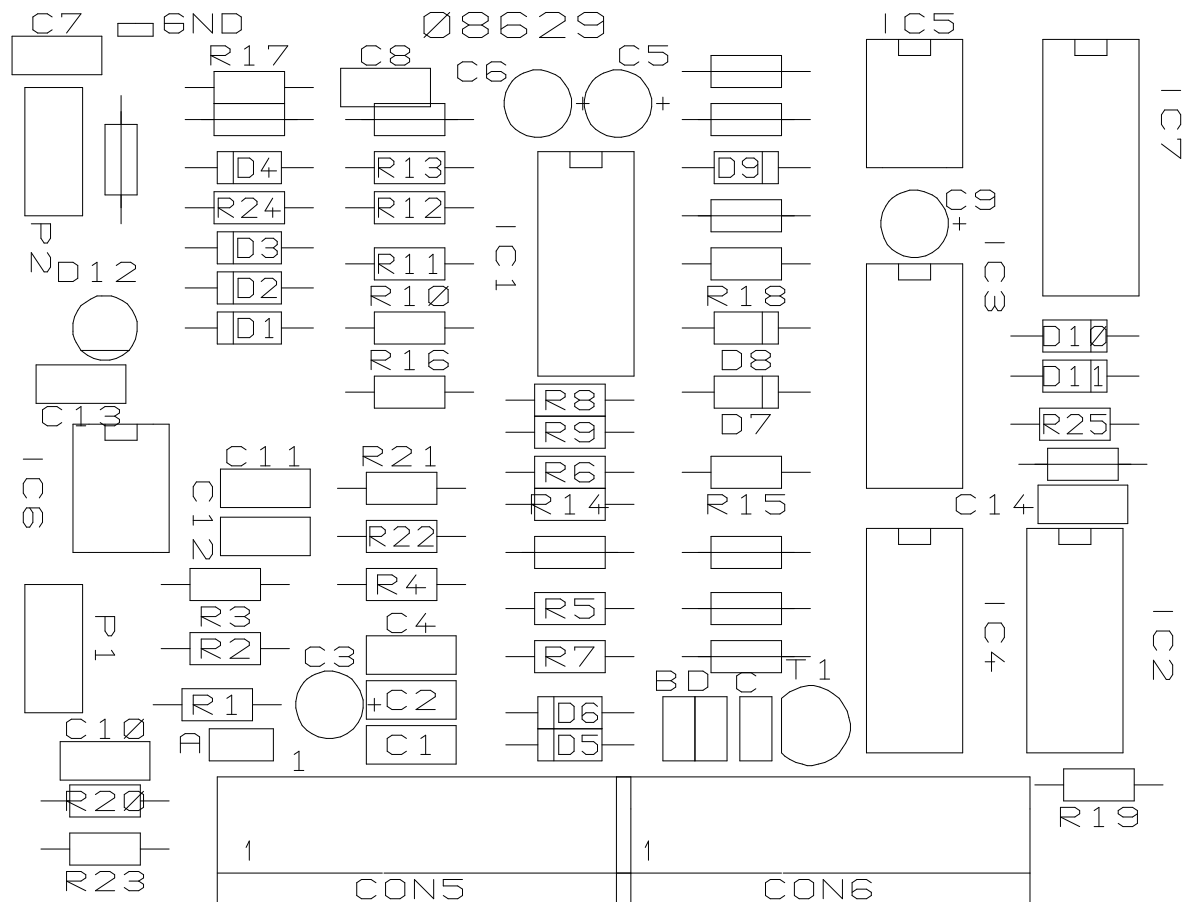


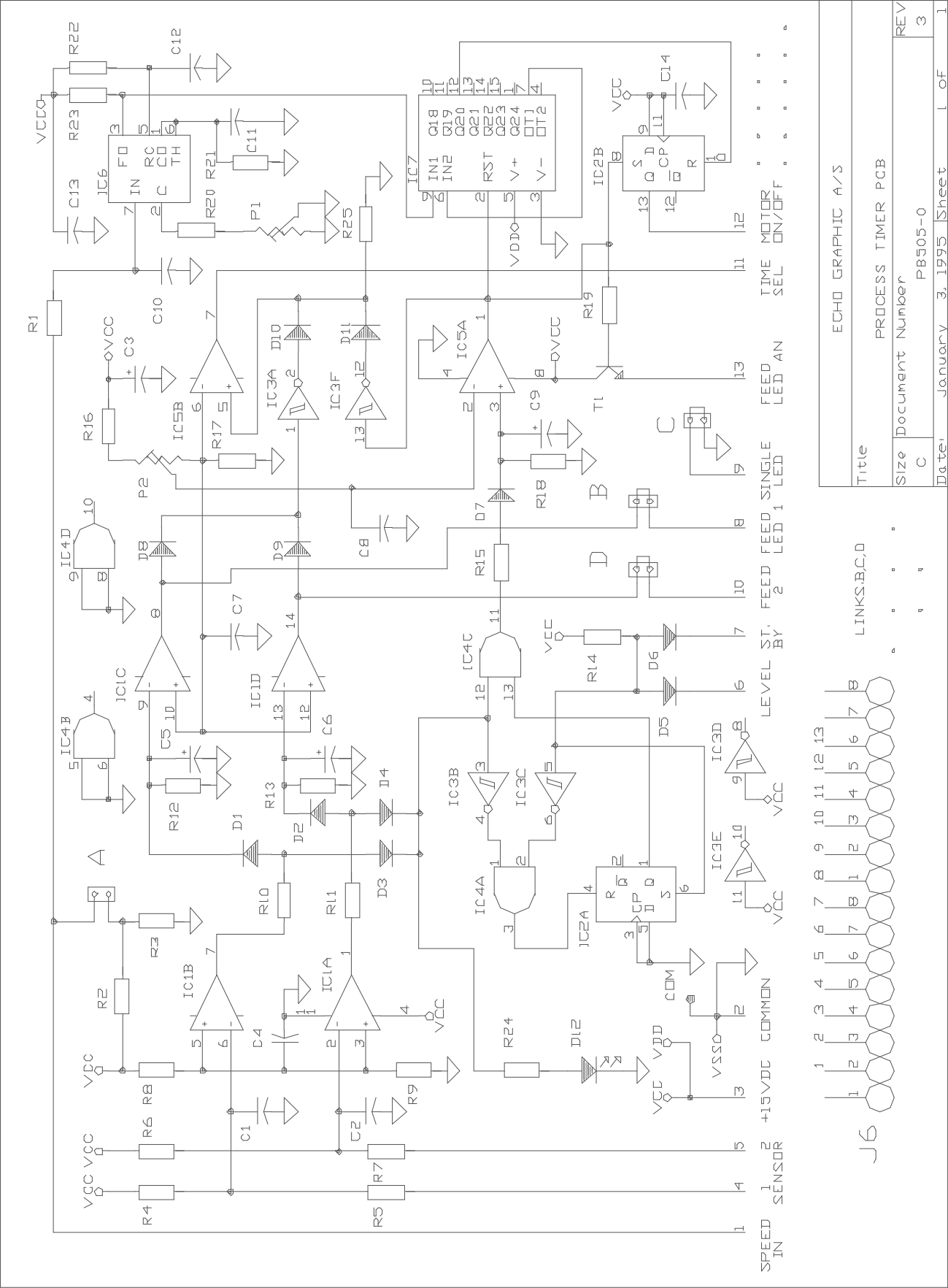
Filmswitch PCB 1#29078, Drawing P9310-02



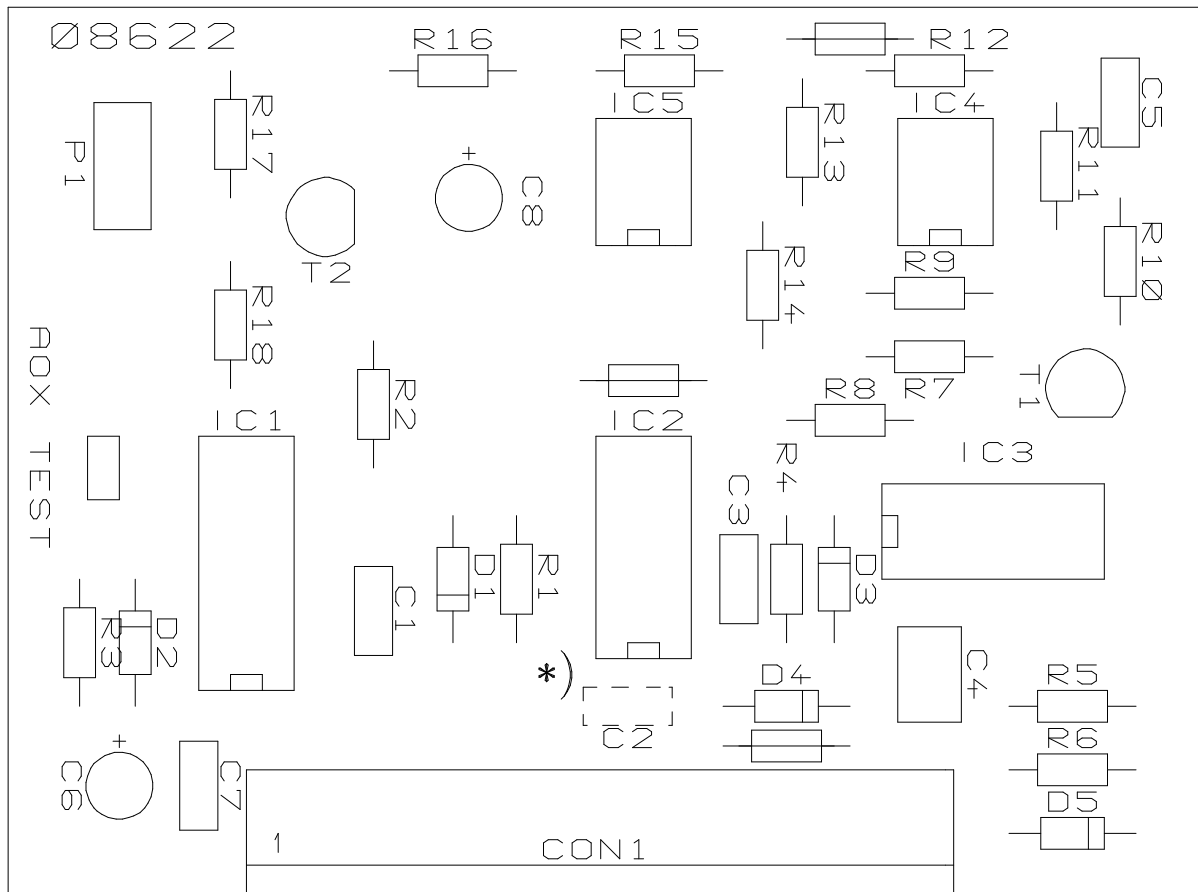


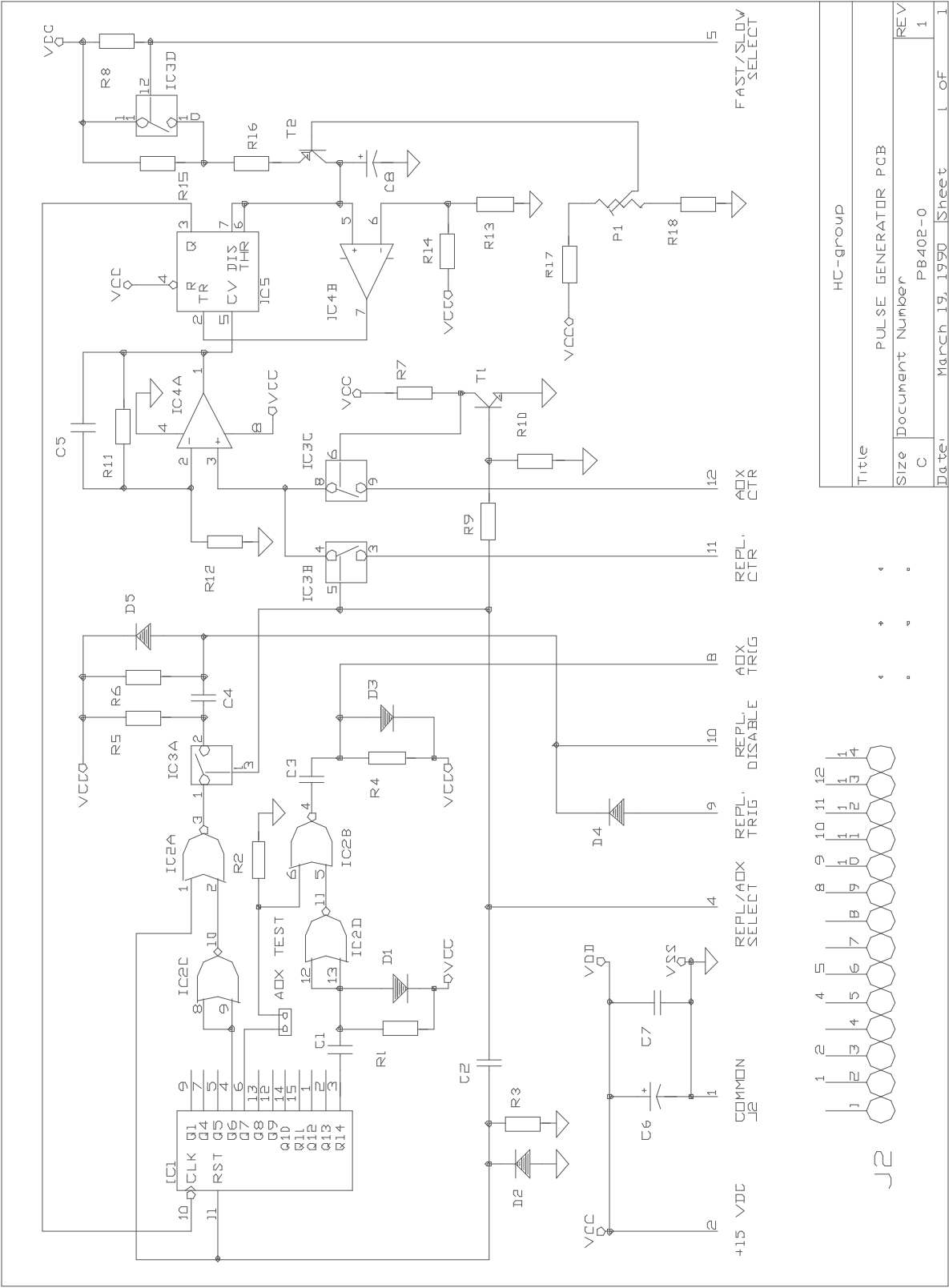
Speed Control PCB # 911937, Diagram P9700-0

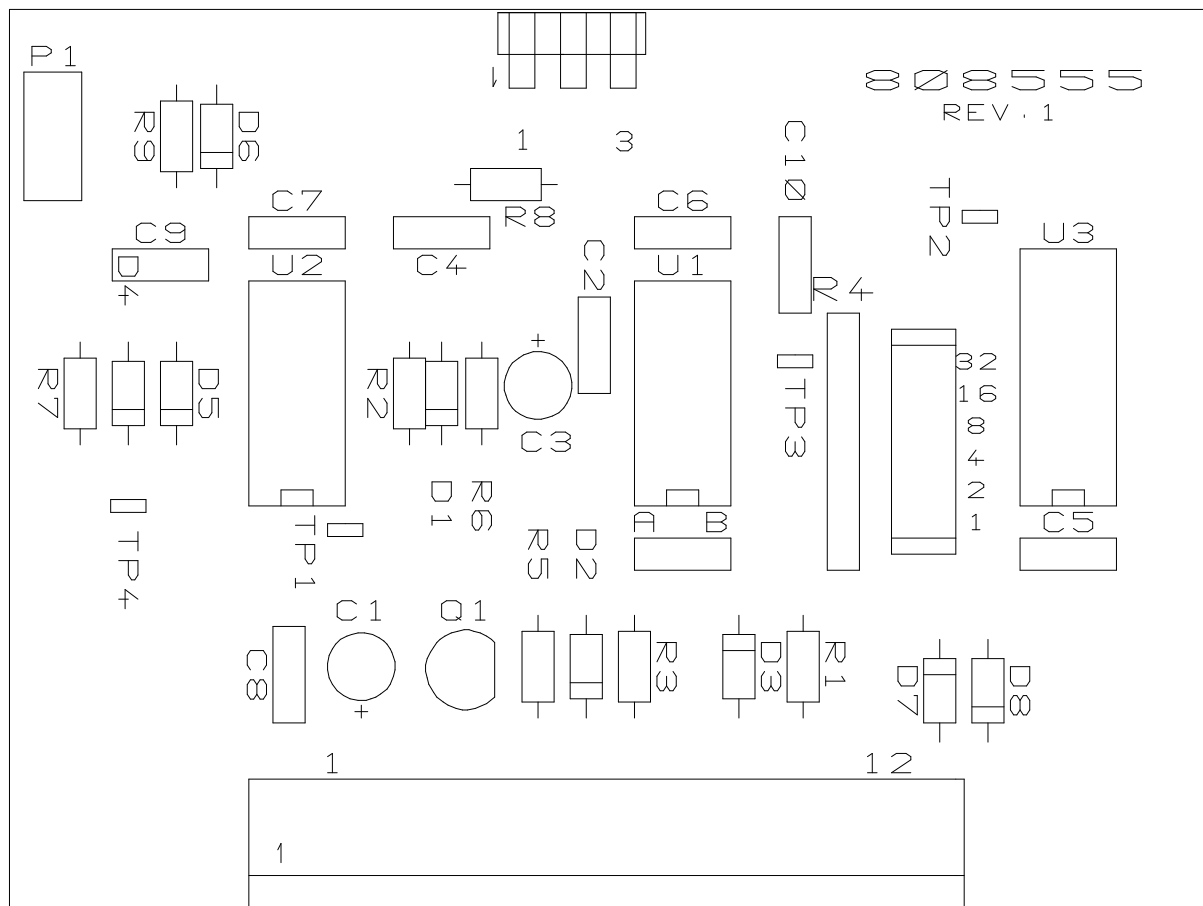


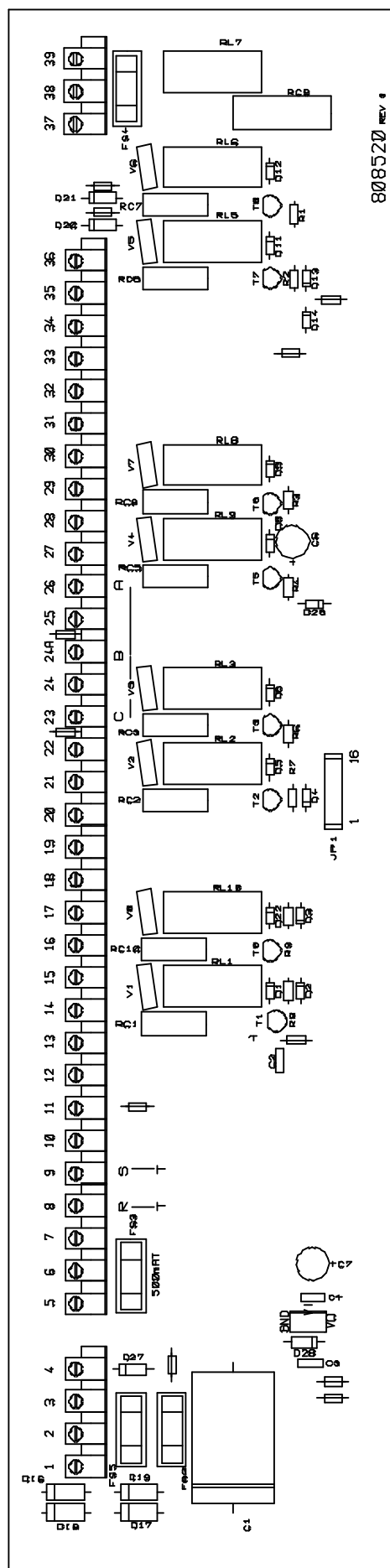


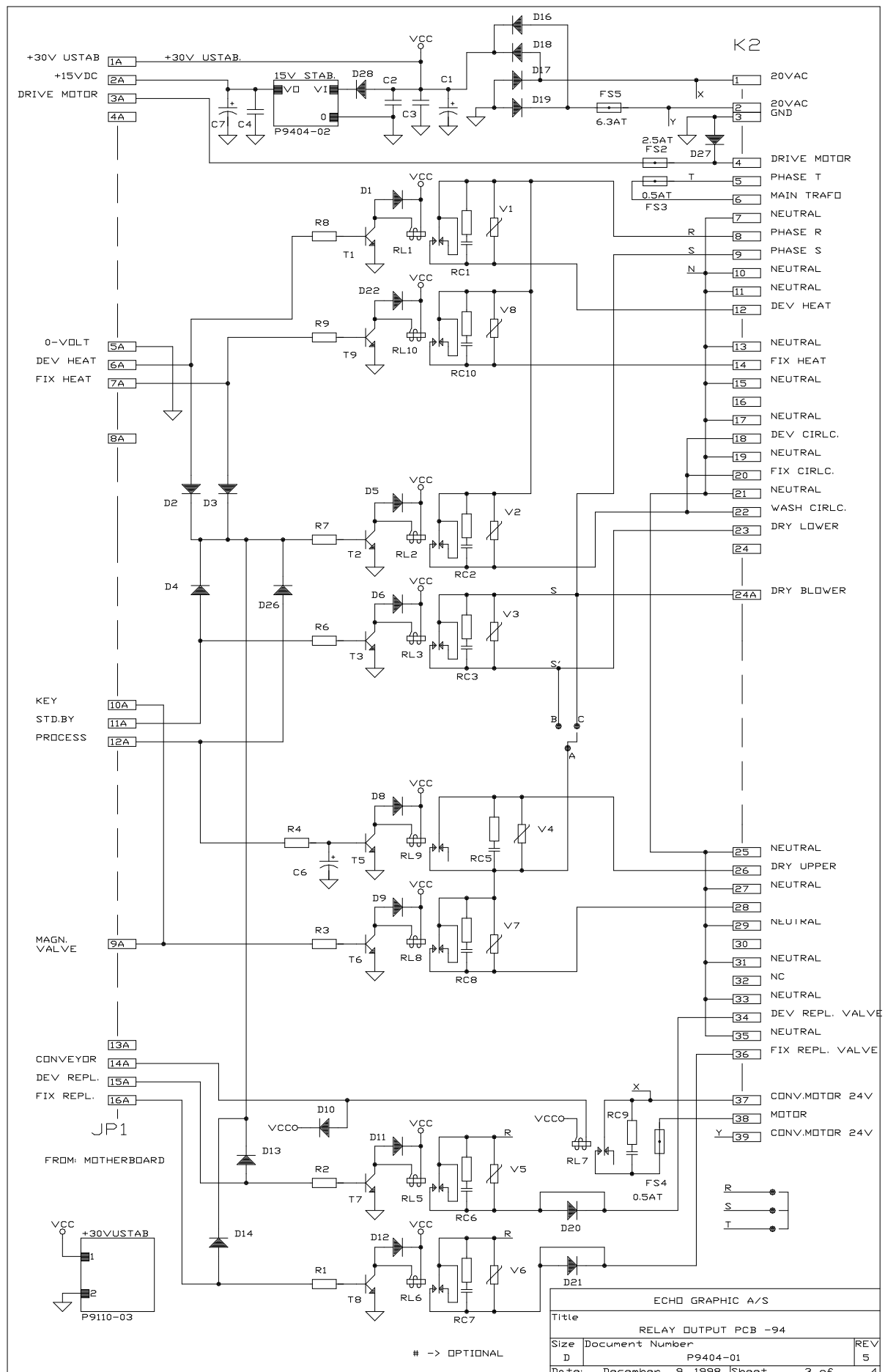
Process/No-Feed PCB #911889, Diagram P8505-0



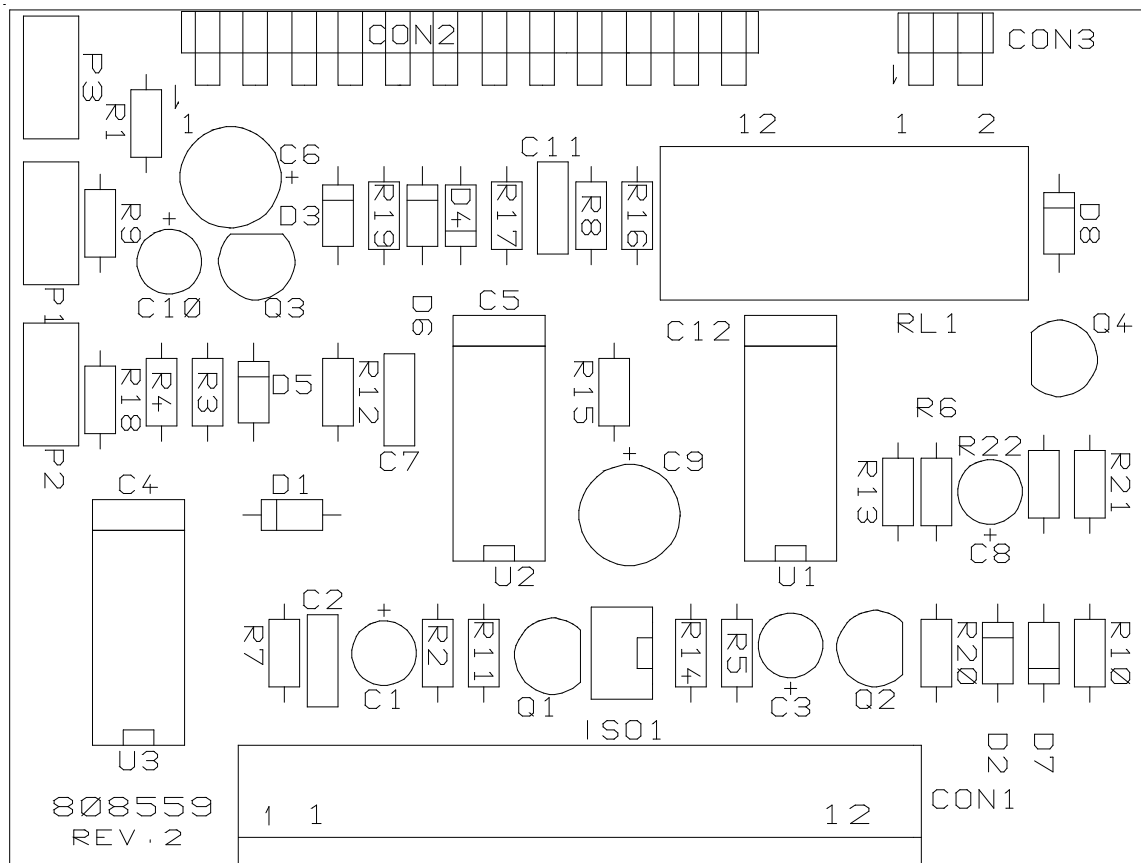


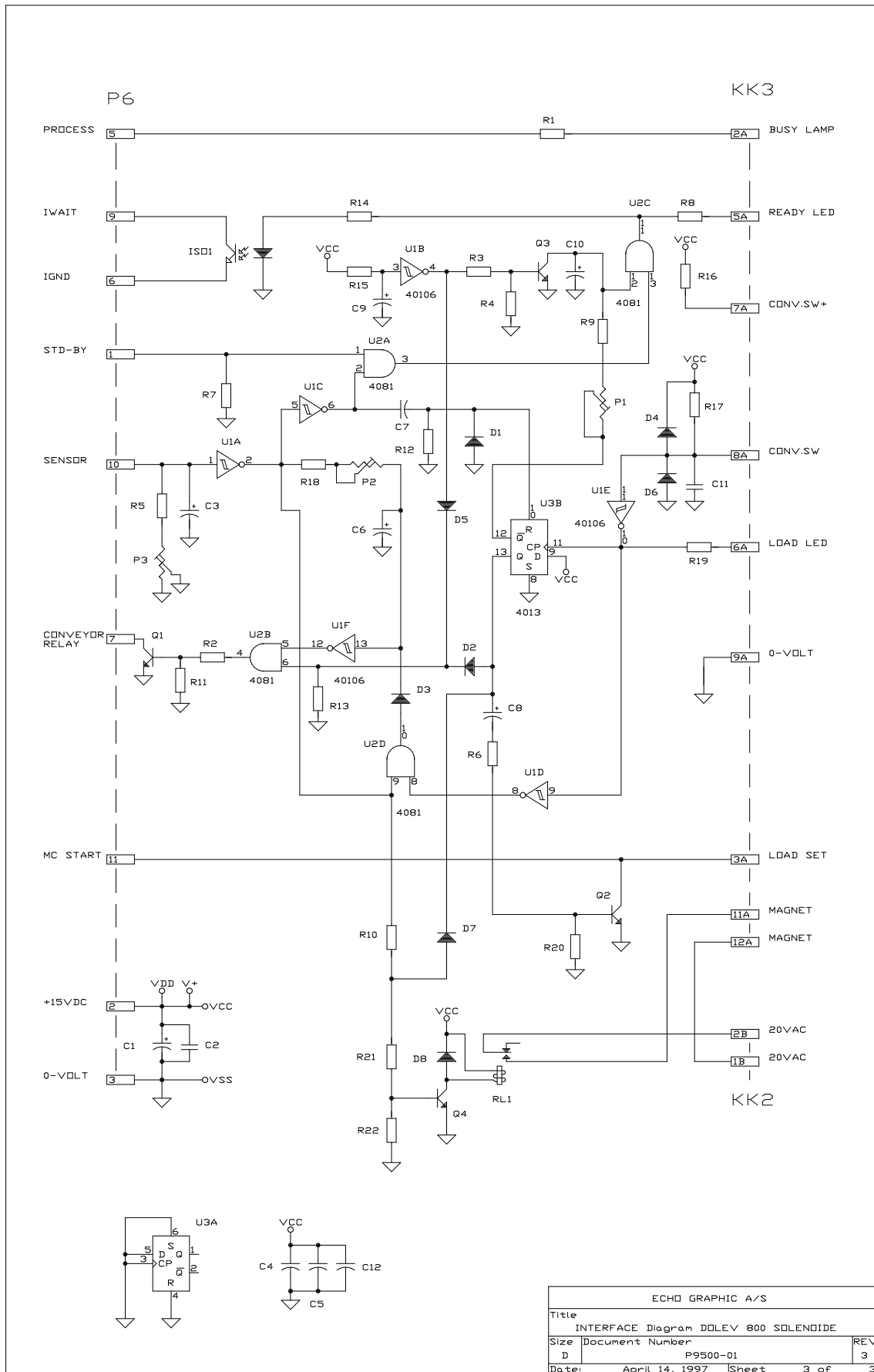


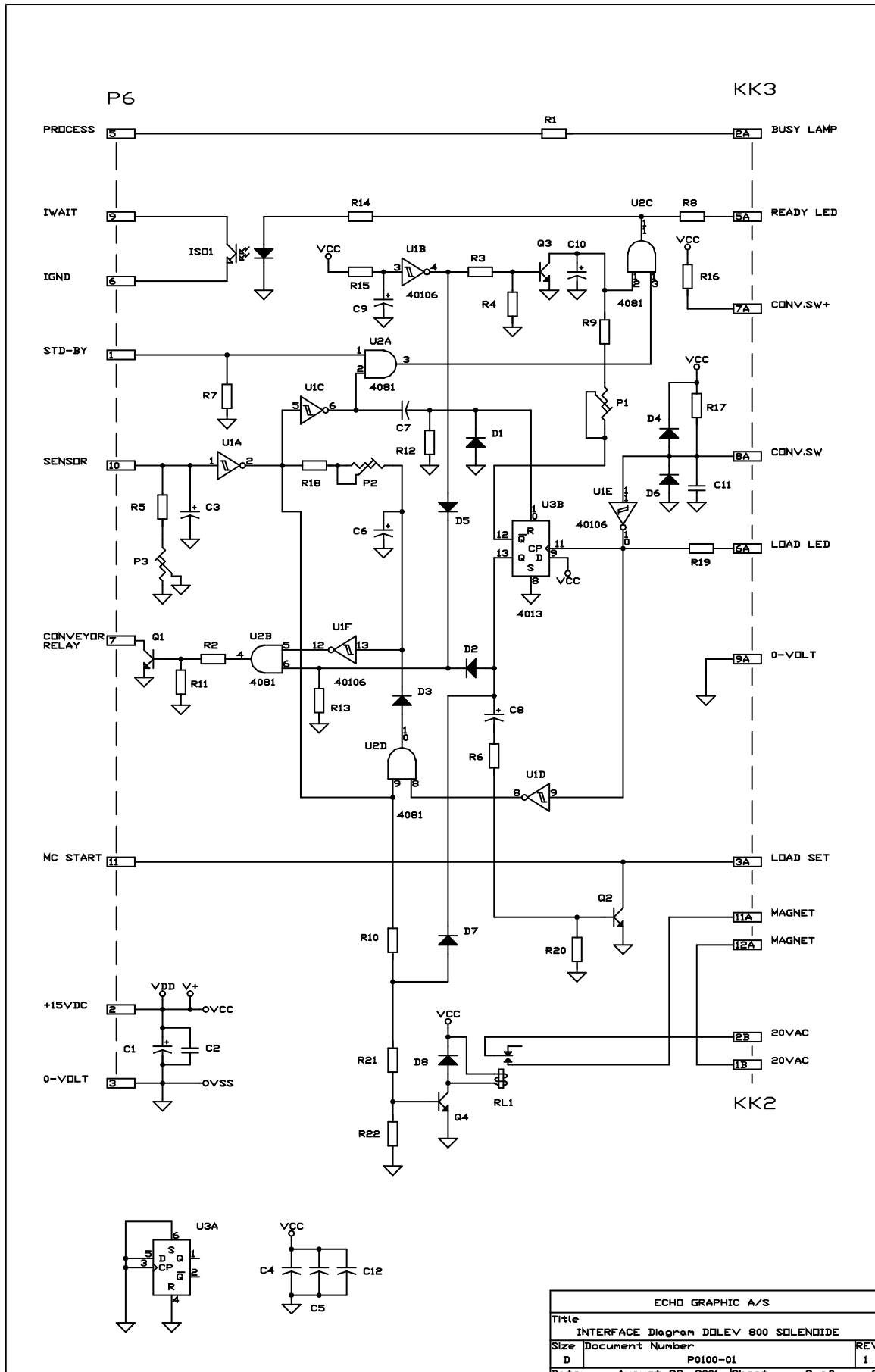




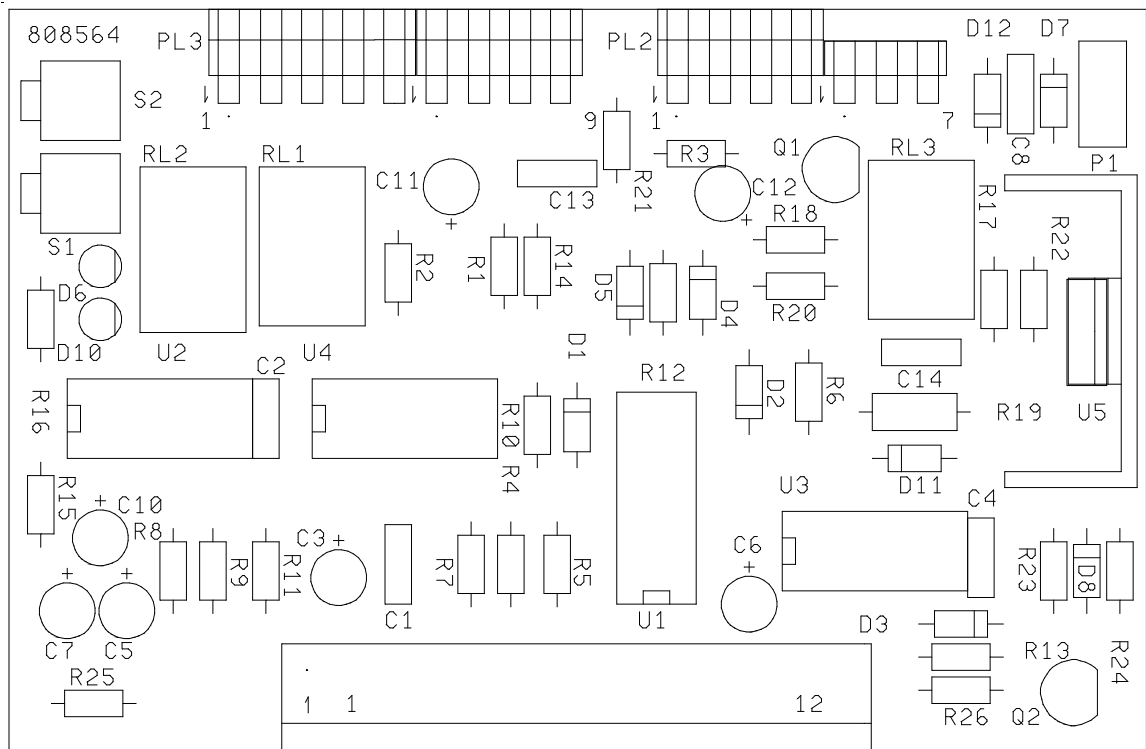
Relay PCB #890602, Drawing P9404-01



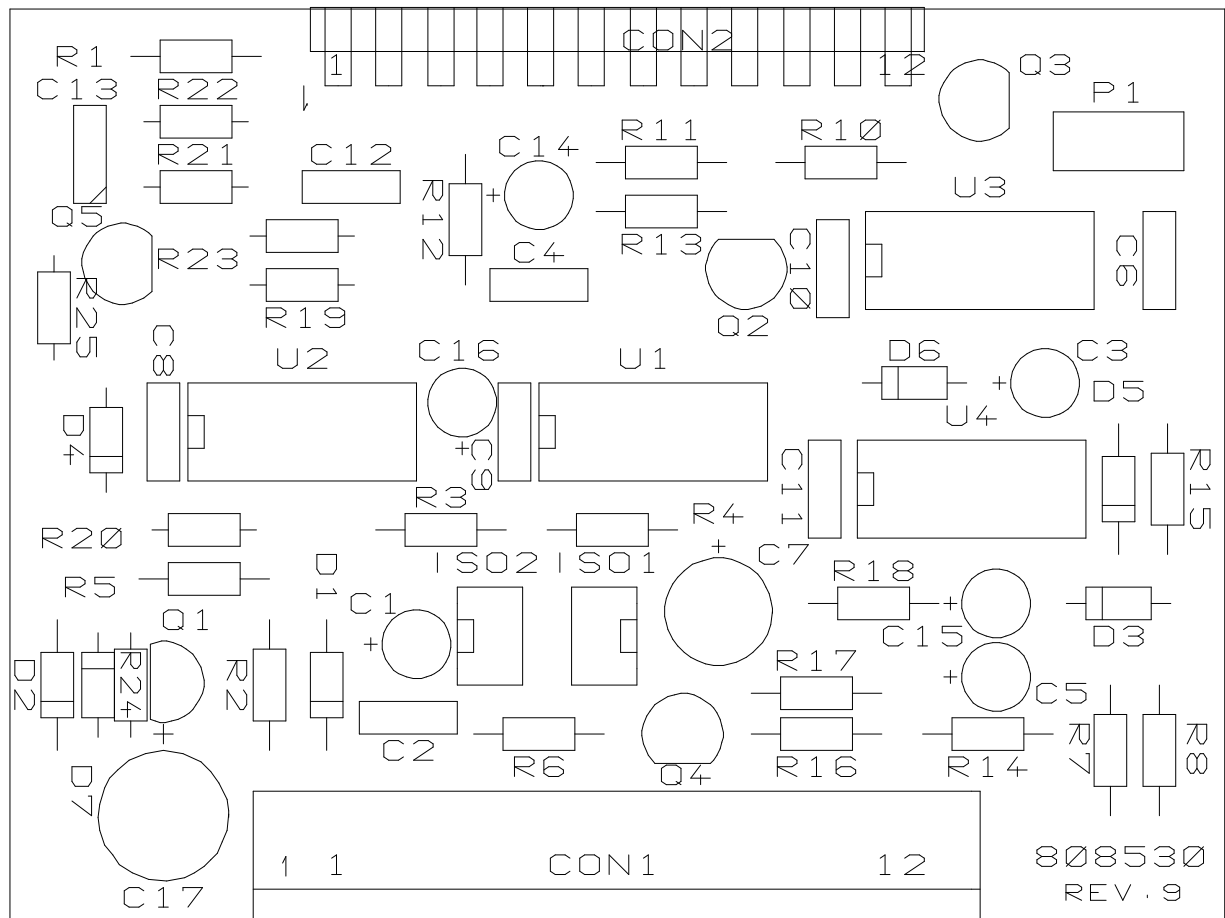


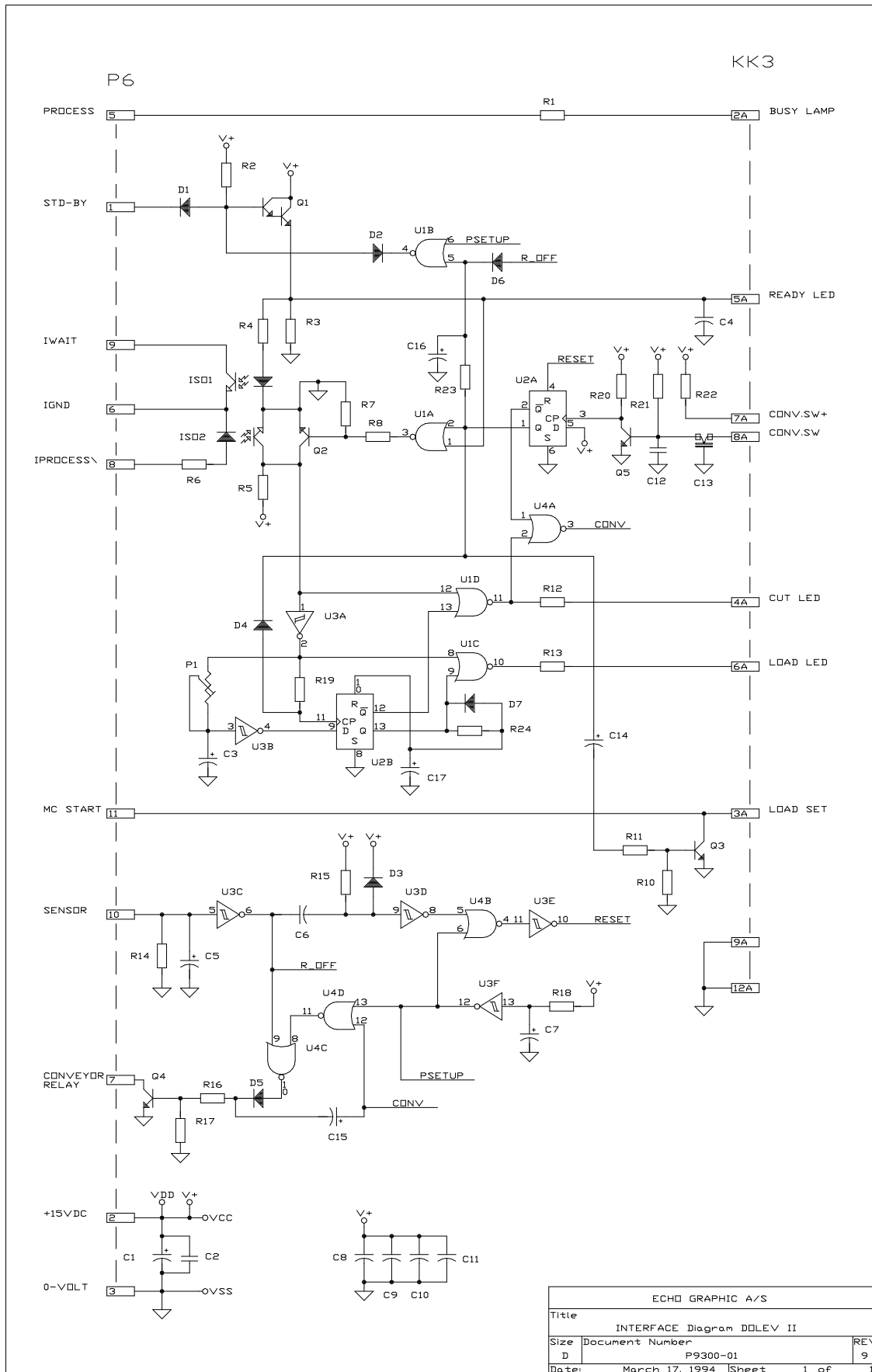


Interface PCB Dolev 800 V3-4 #317075 , Drawing P0100-01

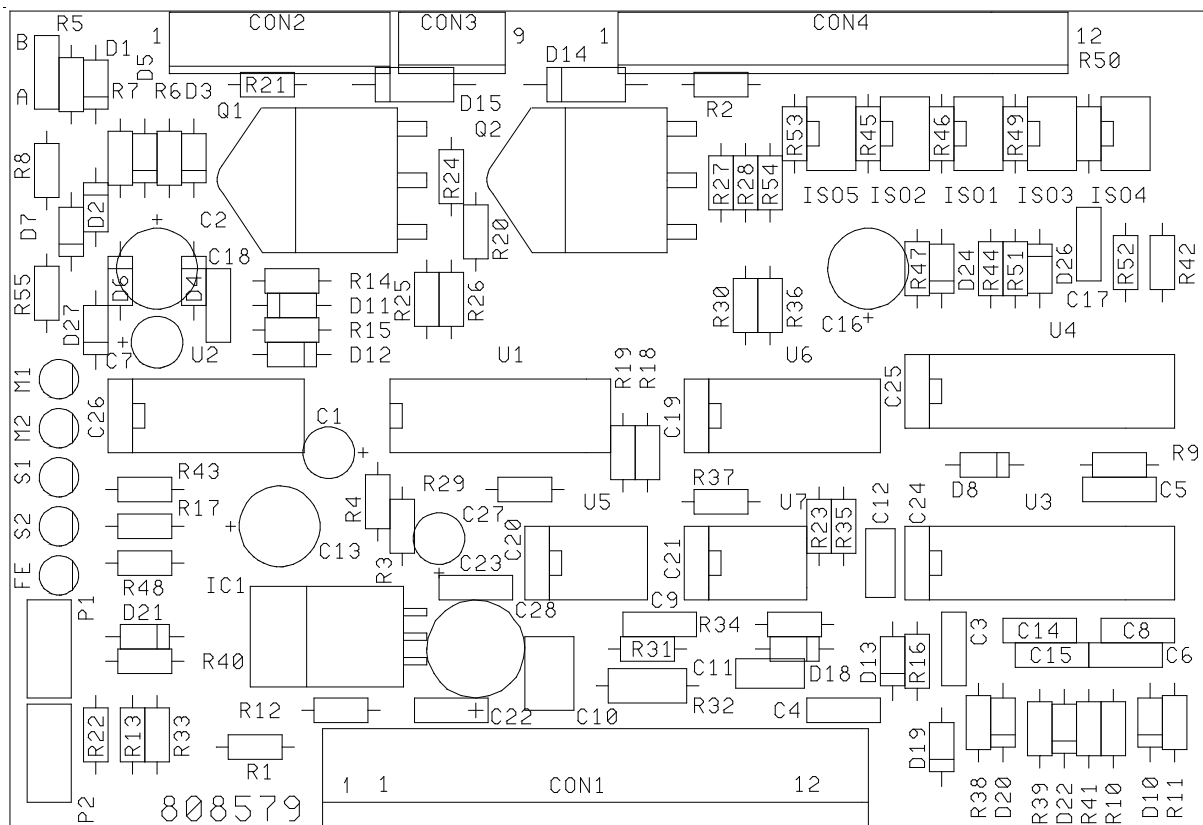


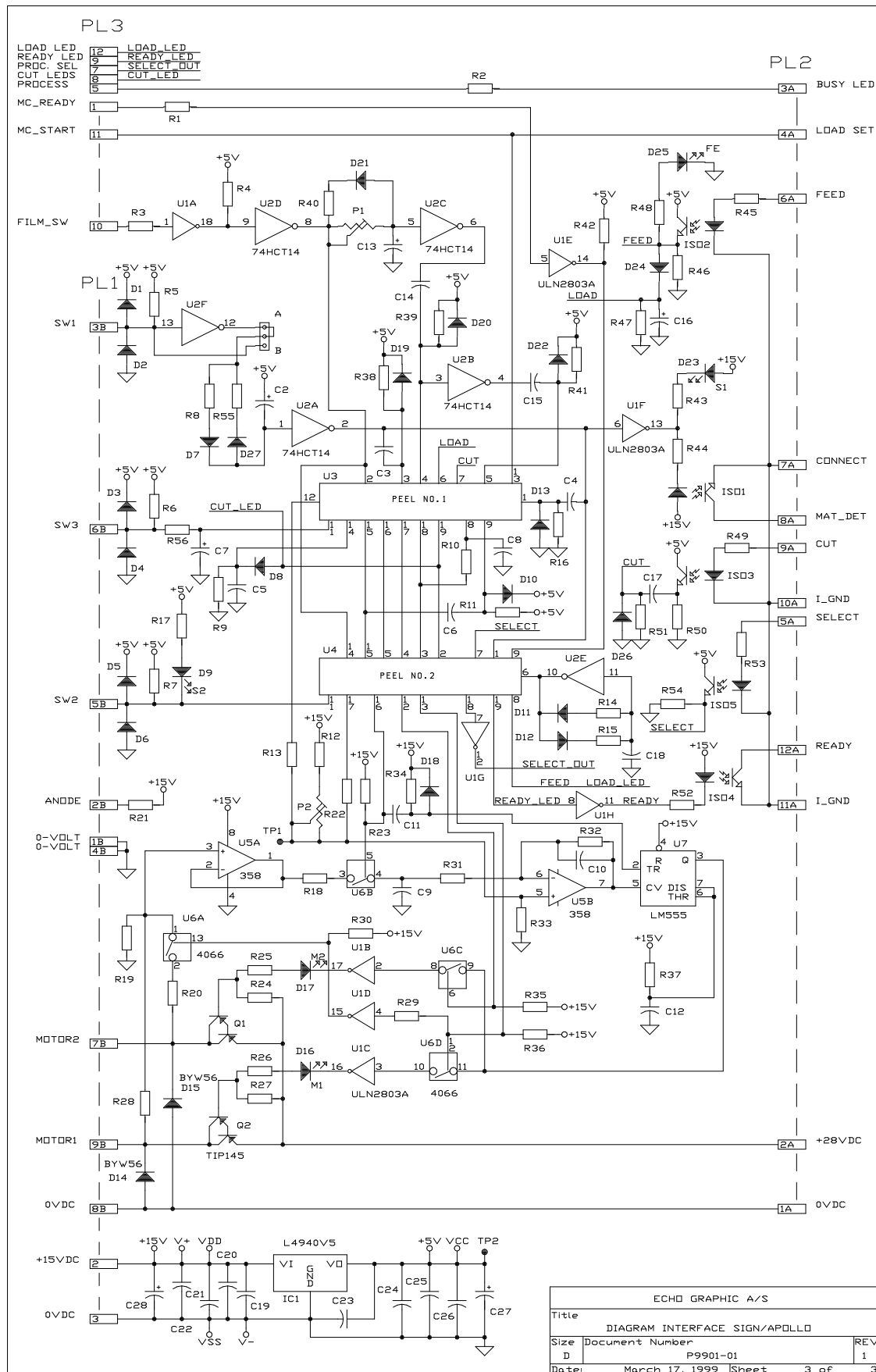
P9505



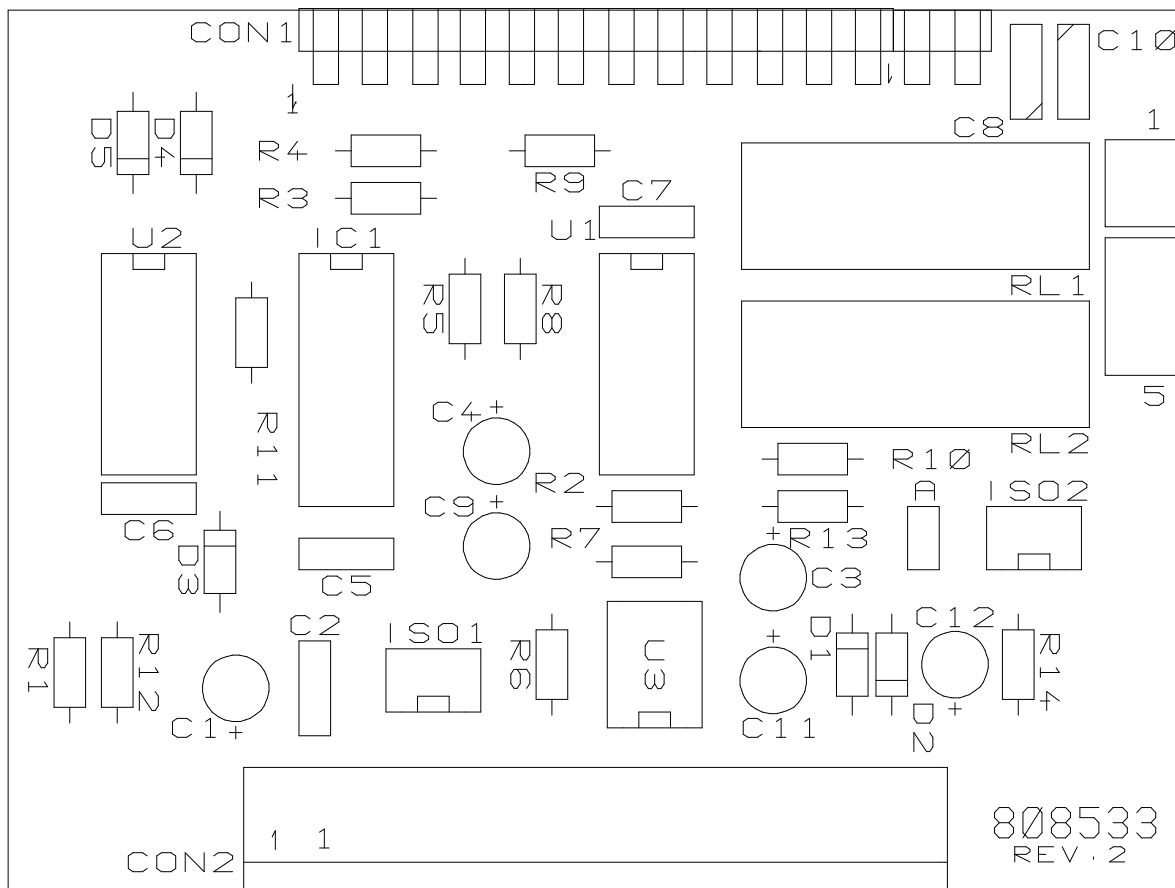


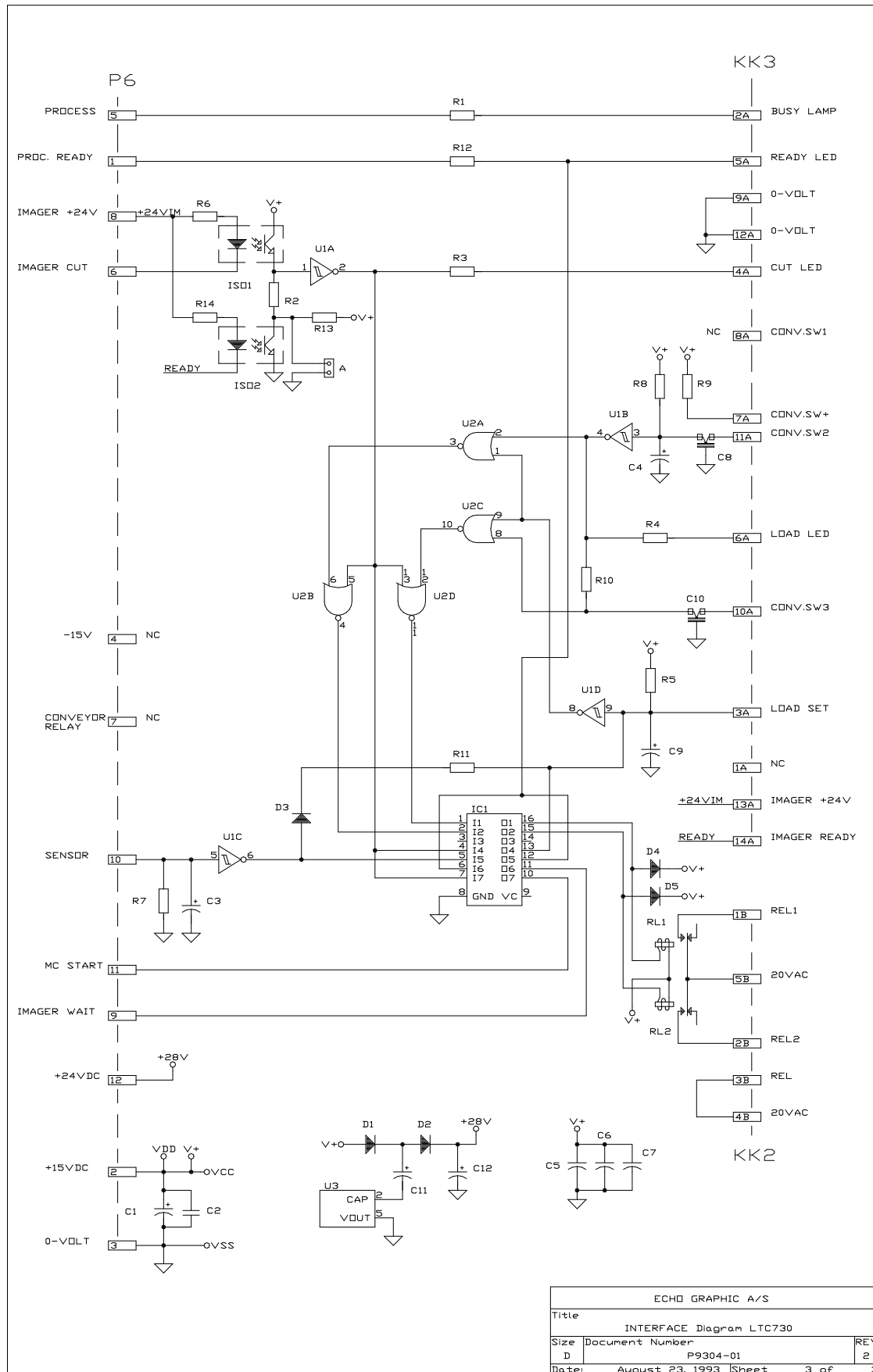
Interface PCB, Dolev 250/450 #890484, Drawing P9300-01





Interface PCB, Apollo/Signa #454069, Drawing P9901-01





Interface PCB, Hercules #890515, Drawing P9304-01

Dolev 800

Processor type #317950 & #317955

PCB Name	Part No.	Diagram drawing	Location drawing	
Motherboard:		454578	P9707-01	P9707
Repl/Aoxi.		444499	P8403-2	P8403
Temp. Ctrl.		890557	P9311-01	P9303
Level. Ctrl.	911874	P8405-0	P8405	
Film. Sw.	129078	P9310-02	P9311	
Speed. Ctrl.	911937	P9700-0	P9700	
Process.	911889	P8505-0	P8505	
Pulse. Gen.	911873	P8402-0	P8402	
Interface f. V2	890640	P9500-01	P9500	
Interface f. V3-4	317075	P0100-01	-	
Relay	890602	P9404-01	P9208	
Panel Pcb	890421	P9207-01	P9207	

Shunt settings

Mount the following shunts

JP A
JP E
JP G
JP N
JP O
JP R

All other shunts shall not be mounted

Other configurations

The red wire between the motherboard JP8 /Pin2 and interface PCB Pin2 must be cut/
removed!

Replaceable parts:

#129078 can be exchange to #890552 if D4 is removed or not needed.

Dolev 4press

Processor type #129900

PCB Name	Part No.	Diagram drawing	Location drawing
Motherboard:		454578	P9707-01 P9707
Repl/Aoxi.		444499	P8403-2 P8403
Temp. Ctrl.		890557	P9311-01 P9303
Level. Ctrl.	911874	P8405-0	P8405
Film. Sw.	129078	P9310-02	P9311
Speed. Ctrl.	911937	P9700-0	P9700
Process.	911889 *	P8505-0	P8505
Pulse. Gen.	911873	P8402-0	P8402
Film Transport	129079	P9411-02	P9411
Interface f. V2	129058	P9505-01	P9505
Relay	890602	P9404-01	P9208
Panel Pcb	890421	P9207-01	P9207

Shunt settings

Mount the following shunts

JP A
JP E
JP G
JP N
JP O
JP R

The shunts on the plug_in pcb's must be mounted as in the diagram. (Factory settings!)

All other shunts shall not be mounted

Other configurations

The pink wire between the motherboard JP8 /Pin2 and interface PCB Pin2 must be cut/ removed!

* Must be upgraded / changed from the old pcb #66702 can not be used.

Please consider Kit 217189 to ensure correct cable extention parts! See service bulletin No 20

Replaceable parts:

#129078 can be exchange to #890552 if D4 is removed or not needed.

Dolev 250/450

Type: #317800, #317802, #317803, #317900, #317910

PCB Name	Part No.	Diagram drawing	Location drawing	
Motherboard:		454578	P9707-01	P9707
Repl/Aoxi.		444499	P8403-2	P8403
Temp. Ctrl.		890557	P9311-01	P9303
Level. Ctrl.	911874	P8405-0	P8405	
Film. Sw.	129078	P9310-02	P9311	
Speed. Ctrl.	911937	P9700-0	P9700	
Process.	911889	P8505-0	P8505	
Pulse. Gen.	911873	P8402-0	P8402	
Interface	890484	P9300-01	P9300	
Relay	890602	P9404-01	P9208	
Panel Pcb	890421	P9207-01	P9207	

Shunt settings

Mount the following shunts

JP A
JP E
JP G
JP N
JP O
JP R

All other shunts shall not be mounted

Other configurations

The pink wire between the motherboard JP8 /Pin2 and interface PCB Pin2 must be cut/removed!

Replaceable parts:

#129078 can be exchange to #890552 if D4 is removed or not needed.

Apollo/Signa

Type #454900 & #454910

PCB Name	Part No.	Diagram drawing	Location drawing	
Motherboard:		454578	P9707-01	P9707
Repl/Aoxi.		444499	P8403-2	P8403
Temp. Ctrl.		890557	P9311-01	P9303
Level. Ctrl.	911874	P8405-0	P8405	
Film. Sw.	129078	P9310-02	P9311	
Speed. Ctrl.	911937	P9700-0	P9700	
Process.	911889	P8505-0	P8505	
Pulse. Gen.	911873	P8402-0	P8402	
Interface	890484	P9300-01	P9300	
Relay	890602	P9404-01	P9208	
Panel Pcb	890421	P9207-01	P9207	

Shunt settings

Mount the following shunts

JP A
JP E
JP G
JP J
JP K
JP L
JP N
JP O
JP R

All other shunts shall not be mounted

Other configurations

The purple wire between the motherboard JP8 /Pin2 and interface PCB must be cut/removed!

Replaceable parts:

#129078 can be exchange to #890552 if D4 is removed or not needed.

Herkules

Fade_out of GL Processors

Type #135800

PCB Name	Part No.	Diagram drawing	Location drawing	
Motherboard:		454578	P9707-01	P9707
Repl/Aoxi.		444499	P8403-2	P8403
Temp. Ctrl.		890557	P9311-01	P9303
Level. Ctrl.	911874	P8405-0	P8405	
Film. Sw.	129078	P9310-02	P9311	
Speed. Ctrl.	911937	P9700-0	P9700	
Process.	911889	P8505-0	P8505	
Pulse. Gen.	911873	P8402-0	P8402	
Film Transport	129079	P9411-02	P9411	
Interface	890515	P9304-01	P9304	
Relay	890602	P9404-01	P9208	
Panel Pcb	890421	P9207-01	P9207	

Shunt settings

JP A
JP E
JP G
JP N
JP O
JP R

Other configurations

An IR sensor must be mounted for the inlet and an outlet switch 6095 must be mounted.
The The Namur sensor must be configured for 40 pulses (two screws in the Grey gear by the sensor)

The red wire between the motherboard JP8 /Pin2 and interface PCB must be cut/removed!

Replaceable parts:

#129078 can be exchange to #890552 if D4 is removed or not needed.