SINGLE CHANNEL SWITCH UNIT UN9/509

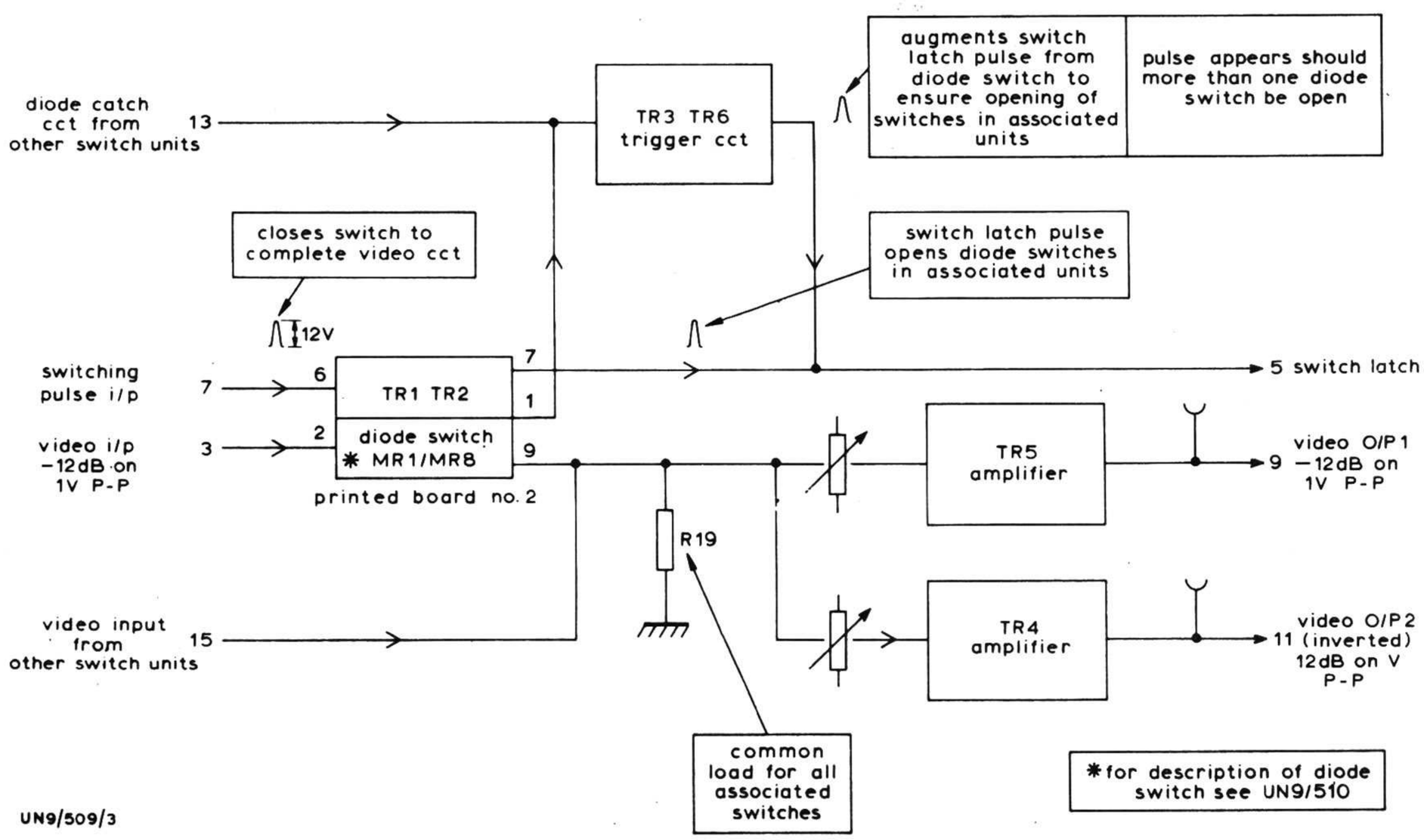


Fig.1 UN9/509: Block Diagram

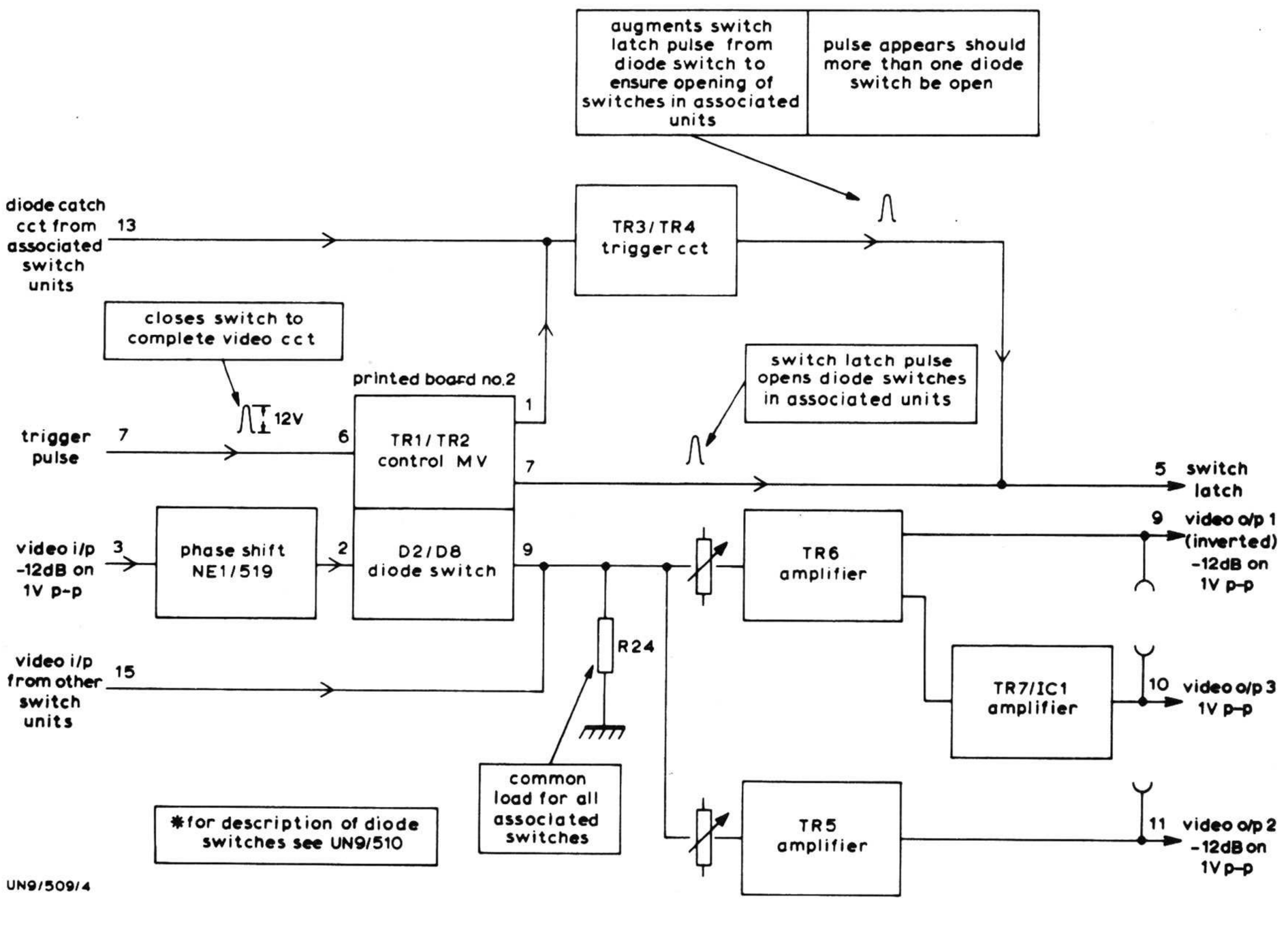


Fig.2 UN9/509A: Block Diagram

The UN9/509 switch unit normally forms part of a cut/fade amplifier[1]. It accepts two video inputs one of which passes through a diode switch controlled by an input of positive going switching pulses. It provides two outputs, one of which is inverted. The UN9/509A is basically similar but is intended for colour working and has an additional video output.

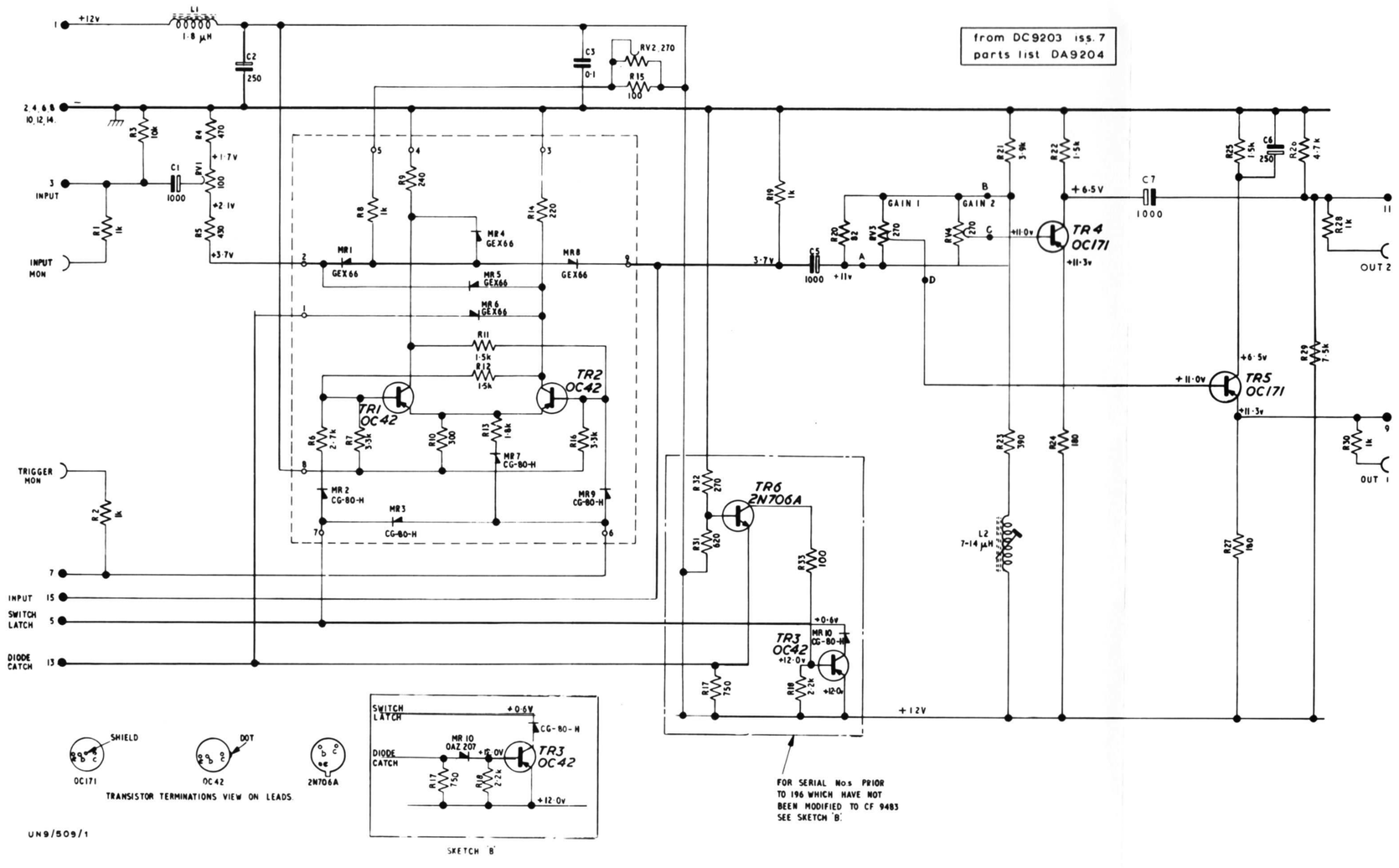
The unit uses a CH1/12A chassis with index pegs 3 and 10.

The operation of the units can be seen from the block diagrams, Fig. 1 and Fig. 2. Both video inputs cannot be present together under normal conditions due to the action of the diode catch circuit. Complete circuit diagrams are given in Fig. 3 and Fig. 4. Routine maintenance is not required. The preset gain controls are adjusted with the unit in position in the parent unit[1].

References

1. Cut Fade Amplifier AM1/504
2. Designs Department Specification No.8.67(62)

AIB 1/72



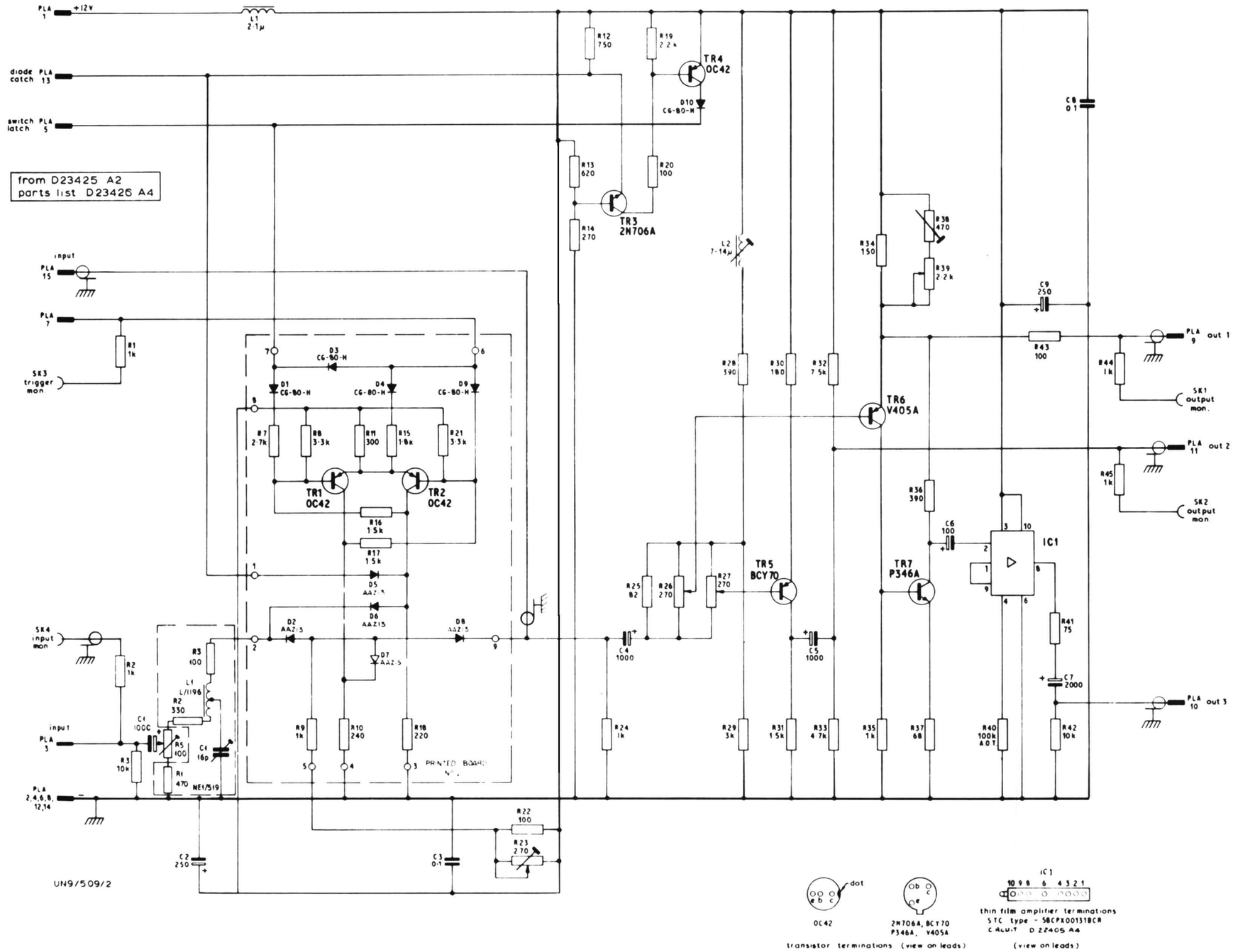


Fig.4 UN9/509A: Circuit Diagram

COMPONENT TABLE: FIG. 18

Comp.	Loc.	Type	Tolerance per cent
C1	F3	Plessey CE1242/432 6V	
C2	L2	U.C.C. SC584/6LS 12V	
C3	K2	Hunts B500K 150V	
C5	E8	U.C.C. SC603/6LS 12V	
C6	K6	U.C.C. SC584/6LS 12V	
C7	M8	Plessey CE1242/432 6V	
L1	M1	L/100	
L2	G11	EA11728	
R1	O2	Erie 9 0·25W	10
R2	O4	Erie 9 0·25W	10
R3	F3	Erie 9 0·25W	10
R4	E3	Erie 109 0·25W	2
R5	D2	Erie 109 0·25W	2
R15	C2	Erie 109 0·25W	2
R17	B11	Erie 108 0·5W	2
R18	C11	Erie 109 0·25W	2

Comp.	Loc.	Type	Tolerance per cent
R19	E9	Erie 109 0·25W	2
R20	F9	Erie 109 0·25W	2
R21	F10	Erie 109 0·25W	2
R22	M9	Erie 109 0·25W	2
R23	G10	Erie 109 0·25W	2
R24	L9	Erie 109 0·25W	2
R25	K5	Erie 109 0·25W	2
R26	O9	Erie 109 0·25W	2
R27	J7	Erie 109 0·25W	2
R28	O8	Erie 9 0·25W	10
R29	N9	Erie 109 0·25W	2
R30	O6	Erie 9 0·25W	10
R31	B12	Erie 109 0·25W	2
R32	C12	Erie 109 0·25W	2
R33	C11	Erie 109 0·25W	2
RV1	E3	Plessey 404/1/00282/101	
RV2	C1	Plessey 404/1/00282/271	
RV3	G9	Plessey CP161101	
RV4	H8	Plessey CP161101	

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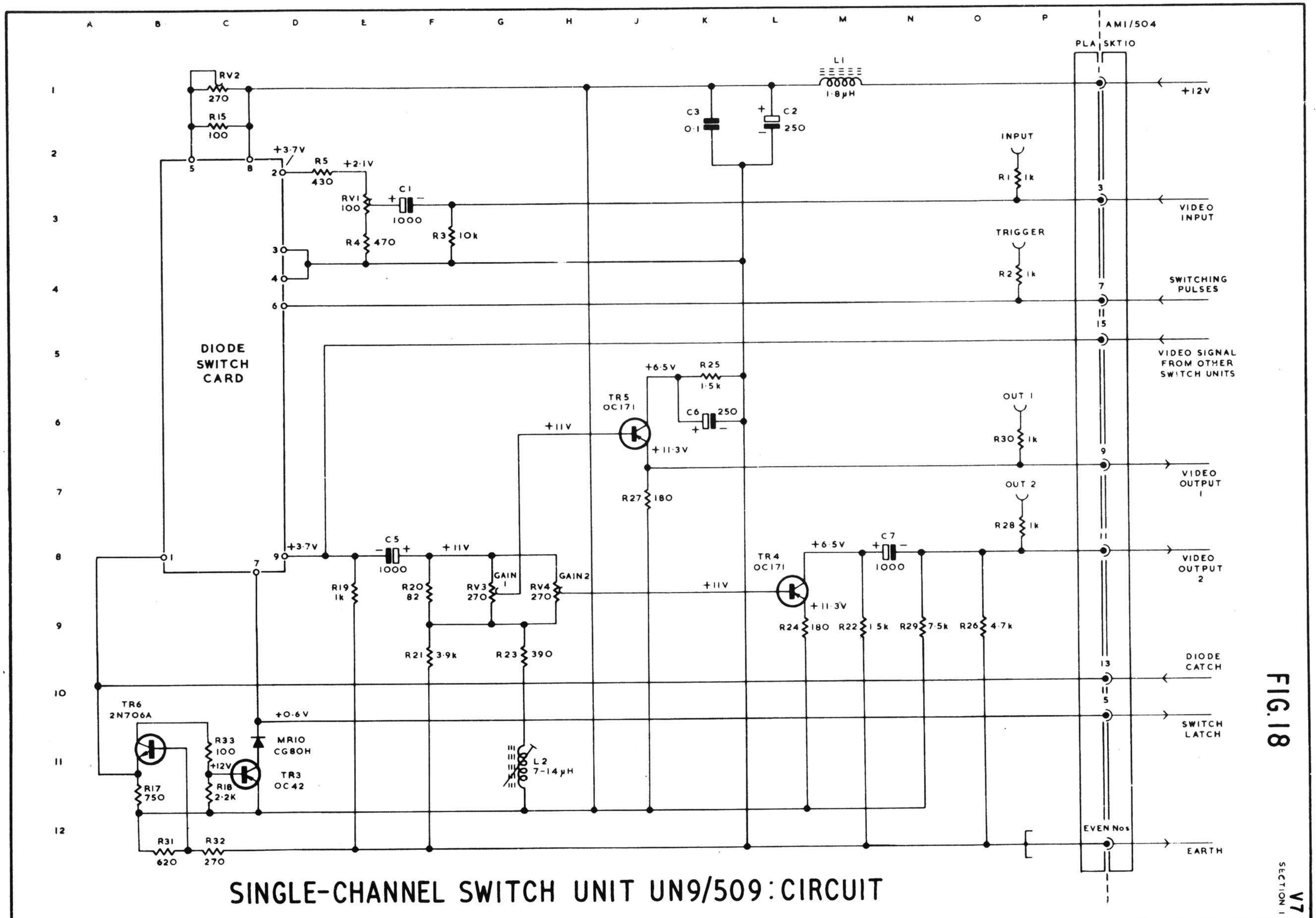


FIG.18

SECTION V7

SINGLE-CHANNEL SWITCH UNIT UN9/509: CIRCUIT