

TECHNICAL MANUAL
DIRECT SUPPORT
AND
GENERAL SUPPORT
MAINTENANCE MANUAL
DRAGON MAINTENANCE SET

Technical Manual)
)
 9-4935-677-34-2)

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 Washington, D.C., 15 May 1984

DIRECT SUPPORT
 AND GENERAL SUPPORT MAINTENANCE MANUAL
 DRAGON MAINTENANCE SET

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CHAPTER 4

AN/TSM-128 SCHEMATIC DIAGRAMS

AN/TSM-128 Schematic Diagram

AN/TSM-128 Circuit Card Schematic Diagrams

E Cell Sync Adapter Schematic Diagram

Beacon Test Adapter Schematic Diagram

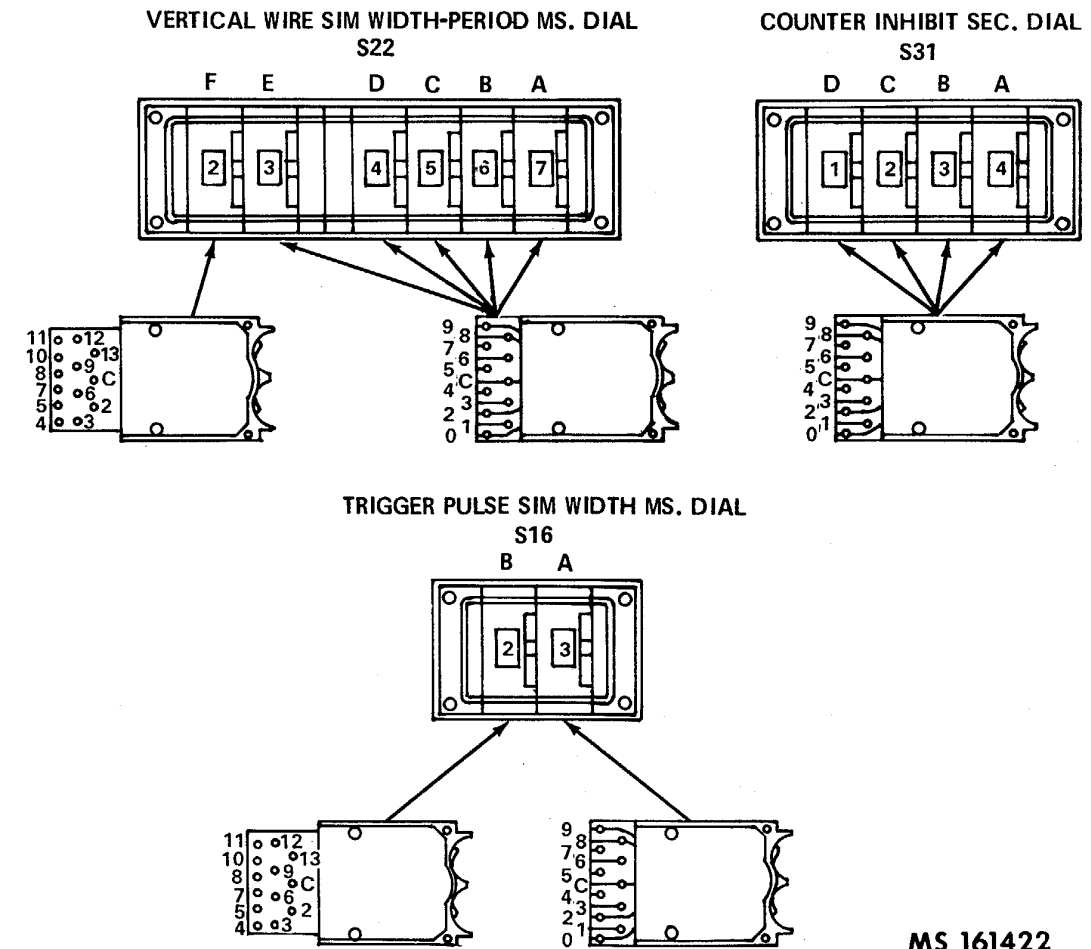
NOTE

This manual has been prepared primarily to provide the US Marine Corps with operator and equipment maintenance instructions for the DRAGON Maintenance Set (DMS) and will replace the following documents presently in use by the Marine Corps: TM 9-4935-481-14-1, dated 22 April 1977; TM 9-4935-481-14-2, dated 29 April 1977; TM 9-4935-481-14-3, dated 3 April 1981; and TM 9-4935-482-40, dated 5 May 1977; and all subsequent changes.

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A10	9,10,29	P1	14,15,16	TB2	2
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A13	6,8,19,29	P4	2,20,21,24	TB5	2,5
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A22	4,6,20,23,30	R7	8	J1	2,13
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A24	6,10,11,12,13,14,18,21,22,23,30	R9	8	J3	2
A25	2,5,6,10,14,18,19,20,23,30	R10	8	M1	2,13
B1	2	R11	8	M2	2
C1	2	R12	8	P1	13
CB1	2	R13	8	P2	13
DS1	2	R14	8	P3	13
DS2	10	R15	7	P4	2,13
DS3	4	R16	13	PS1	2
DS4	4	R17	13	PS2	2
DS5	7	R18	8	PS1TB1	PART OF PS1
E1 - E14	2	R19	6	PS1TB2	PART OF PS1
FL1(J4)	2	A26R1	2	R1	2
J1	10	A26R2	2	R2	2
J2	10	S1	14,15,16,17,18,19,20,24	A2C1	2
J3	10	S2	14,15,16,17,18,21,22,23,24	A2E1,A2E2	2
J4	PART OF FL1	S3	14,15,16,17,18,21,22,23,24	A2E3	2
J5	6,13,18,19,21,22	S4	13	A2TB1	2
J6	2,5,6,13,16,17,18,19,21,23,30	S5	13	A27R1	3
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J8	2,5,6,13,17,18,19,21,22,23,30	S7	2	A27R3	3
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J10	4	S9	5	A27R5	6
J11	4	S10	5	A27R6	8
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J14	13	S13	4	A27R9	10
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J21	18,19,20,8,3	S20	10	A27R16	23
J22	16,17,18	S21	10	A27R17	23
		S22	9		
		S23	8		
		S24	5		
		S25	5		
		S26	4		

NOTES:

- ALL VALUES IN OHMS AND MICROFARADS UNLESS OTHERWISE SPECIFIED.
- LOWER CASE LETTERS ARE SHOWN AS UNDERLINED UPPERCASE LETTERS.
- NON-STANDARD ABBREVIATIONS:
 - ABC-XXX MEANS DMS-D SELECTORS A, B, & C POSITION XXX.
 - TTS MEANS TRACKER TEST SET.
 - TX MEANS TIMING SIGNAL X.
- PARTIAL REFERENCE DESIGNATION ARE SHOWN. FOR COMPLETE DESIGNATION. PREFIX WITH UNIT NUMBER OR SUBASSEMBLY DESIGNATION(S). (PREFACE ALL DESIGNATIONS WITH A1 FIRST UNLESS OTHERWISE MARKED BY*)
- SEE COMMERCIAL MANUAL AC/DC ELECTRONICS INC. #ACDC 96016 FOR SCHEMATIC OF PS1.
- SEE COMMERCIAL MANUAL CONCORD INSTRUMENT DIVISION/SYSTRON DONNER CORPORATION MODEL 7460 MR FOR SCHEMATIC OF M1.
- SEE COMMERCIAL MANUAL MONSANTO COMPANY COUNTER-TIMER MODEL 100C/101C FOR SCHEMATIC OF M2.
- PS2 IS A SEALED UNIT. INTERNAL SCHEMATIC INFORMATION IS PROPRIETARY.
- ALL WAFER SWITCH PIN NUMBERS ARE MARKED ON THE DECKS. DECK NUMBERS ARE IDENTIFIED BY BEGINNING WITH FIRST ALPHA OR NUMERIC DIGIT AT THE KNOB END. OTHER SWITCH PINS ARE IDENTIFIED AS SHOWN BELOW.



MS 161422

Figure 4-1. DMS-D - SCHEMATIC DIAGRAM (sheet 1 of 30)

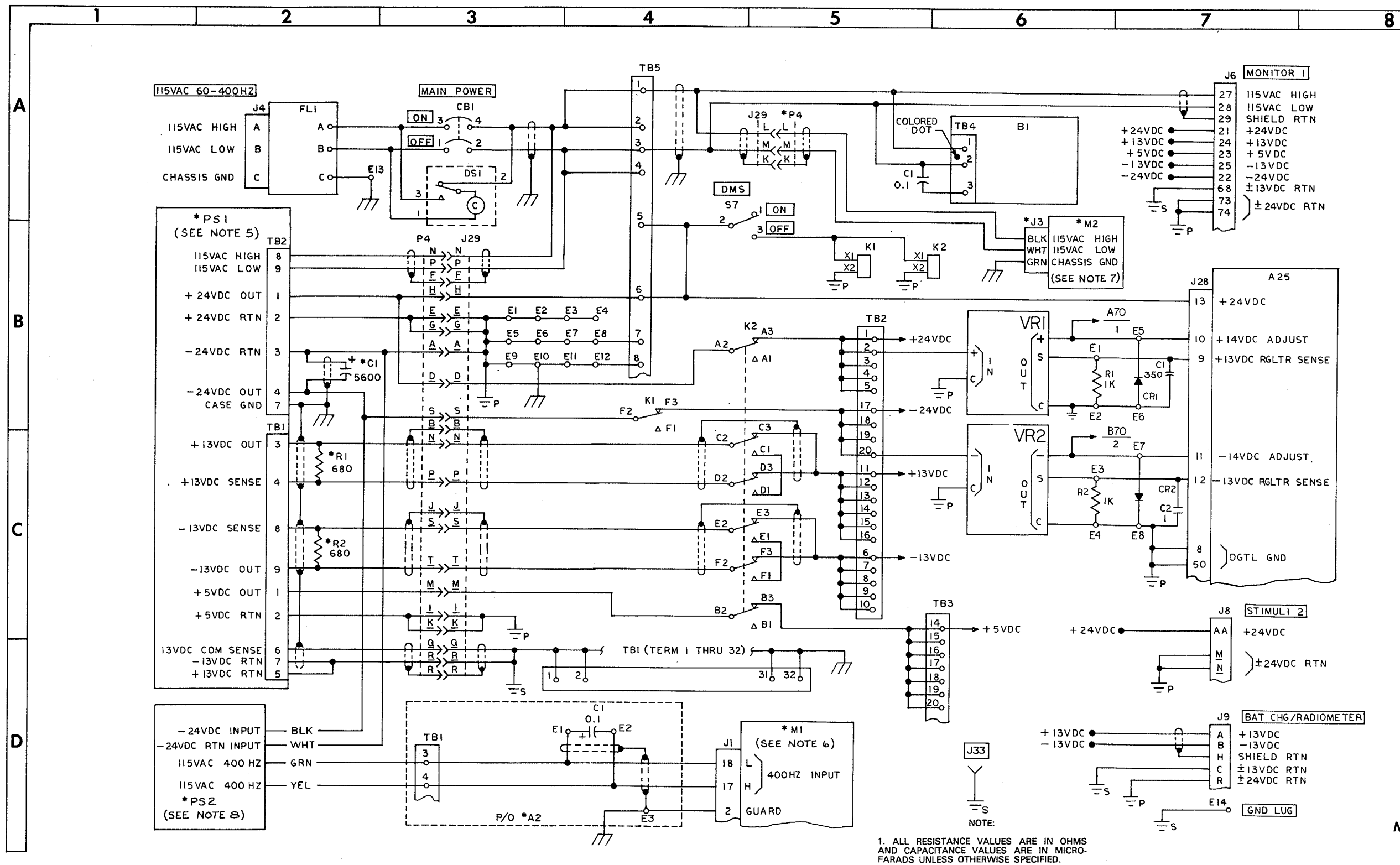


Figure 4-1. DMS-D - schematic diagram (sheet 2 of 30)

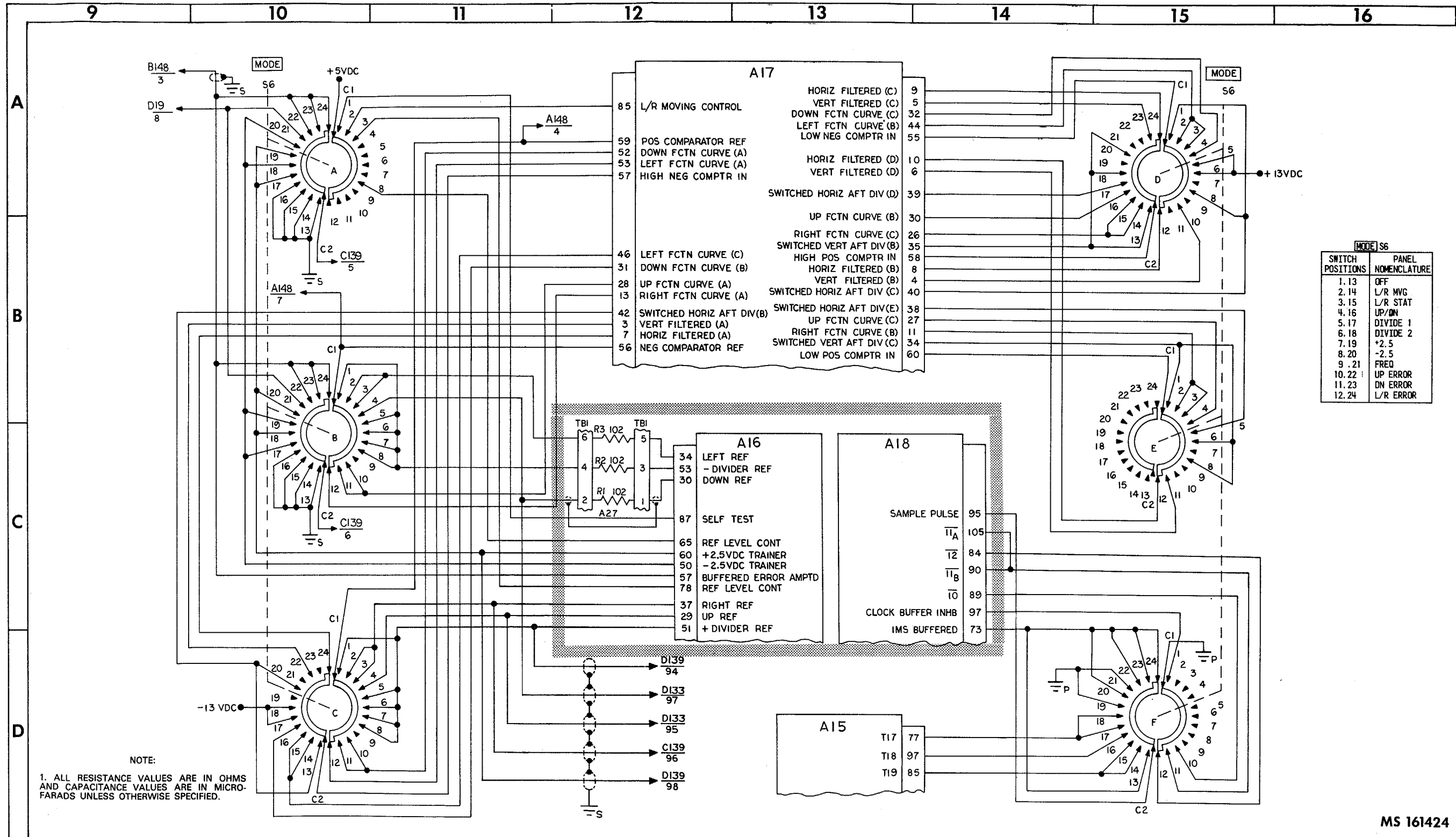
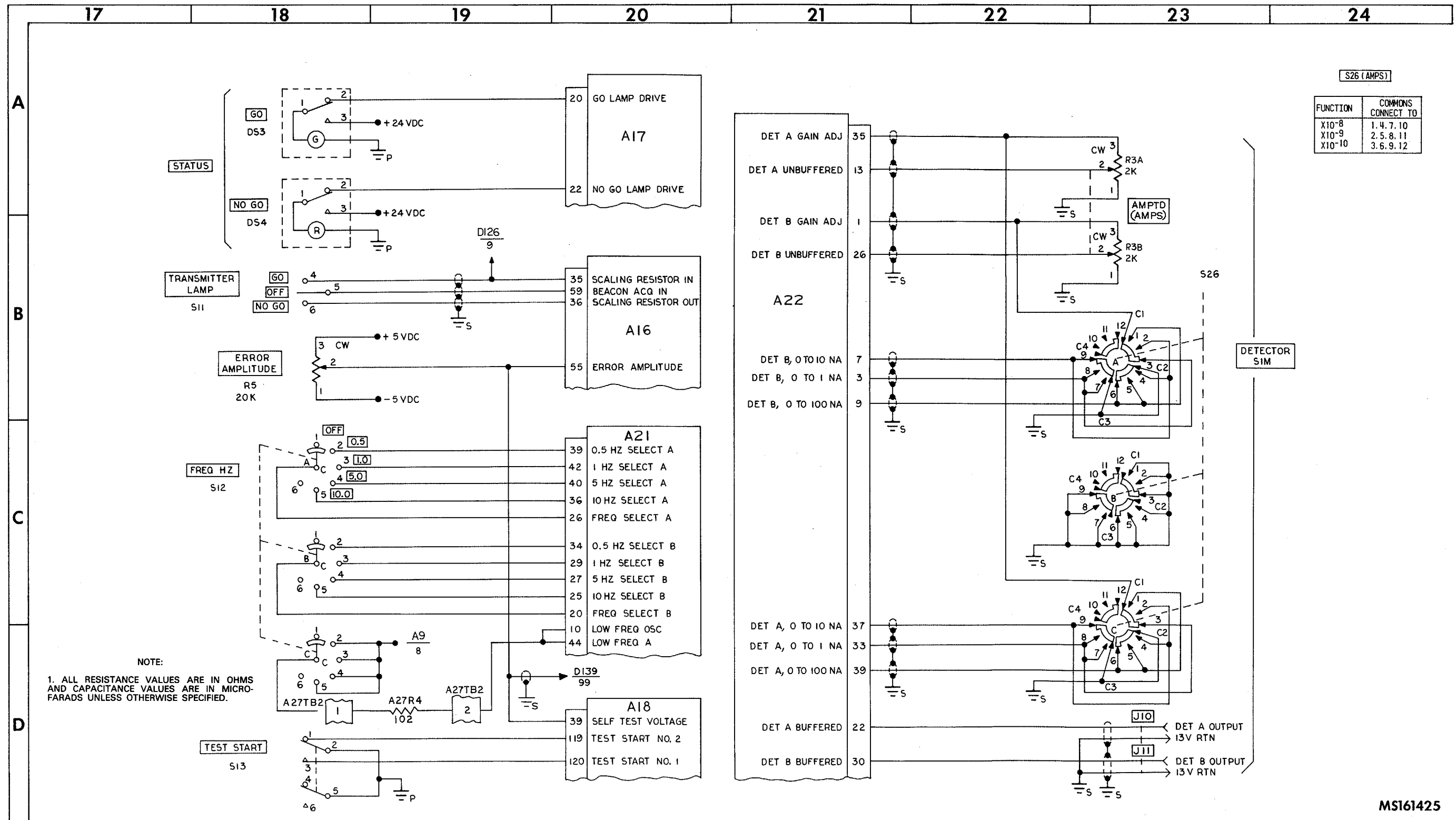


Figure 4-1. DMS-D - schematic diagram
(sheet 3 of 30)



S26 (AMPS)	
FUNCTION	COMMONS CONNECT TO
X10 ⁻⁸	1.4.7.10
X10 ⁻⁹	2.5.8.11
X10 ⁻¹⁰	3.6.9.12

Figure 4-1. DMS-D - schematic diagram (sheet 4 of 30)

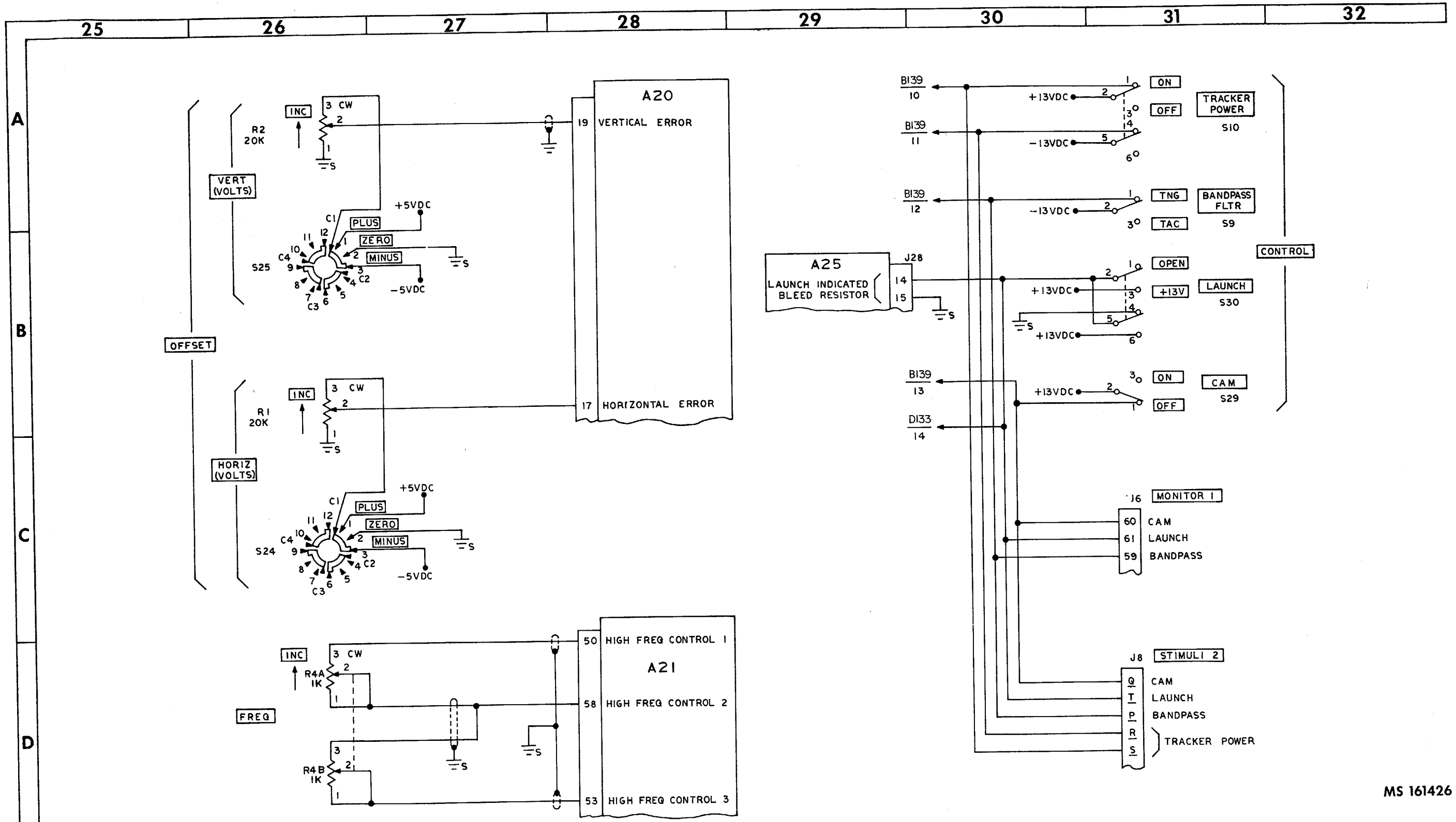
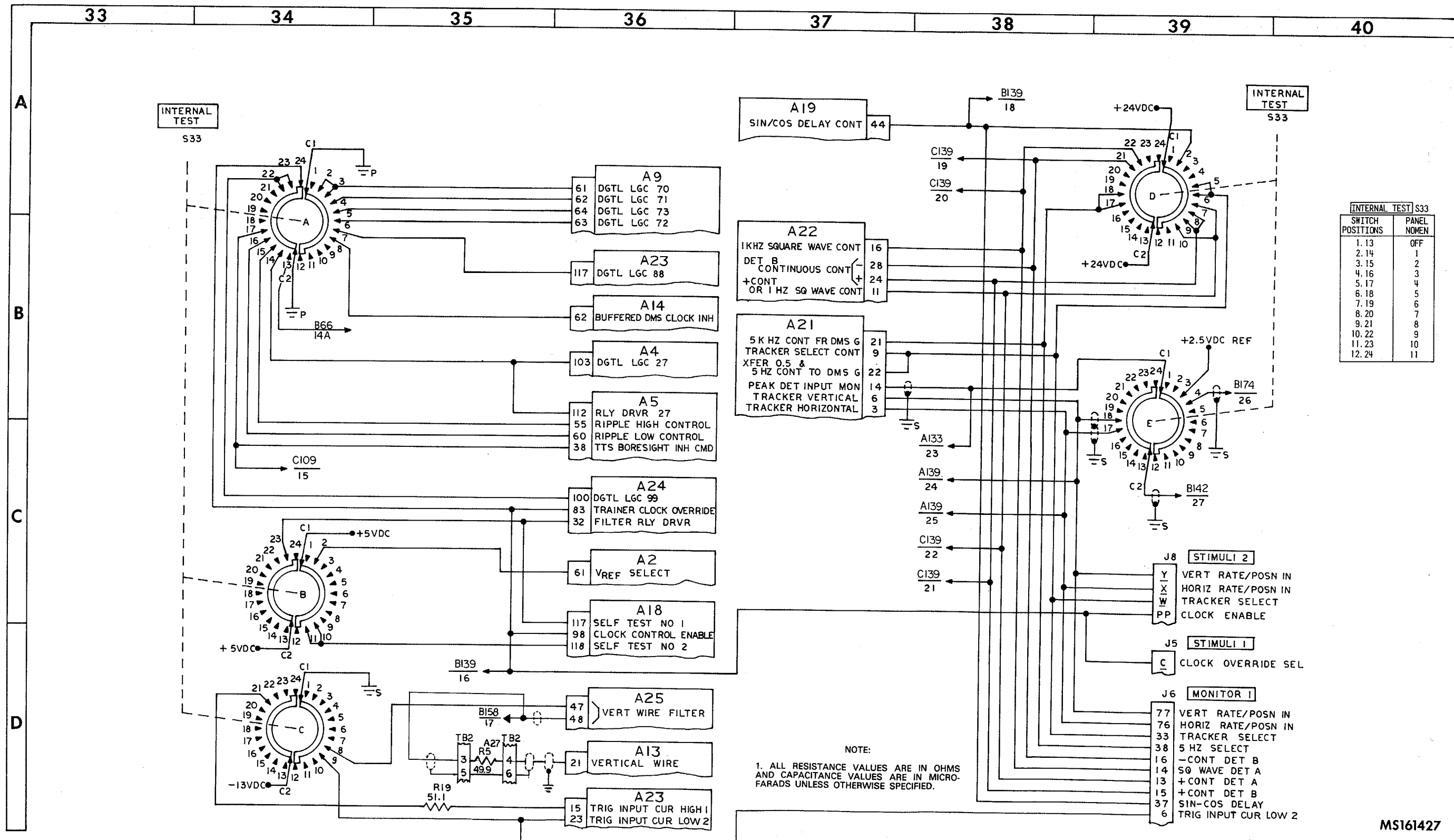


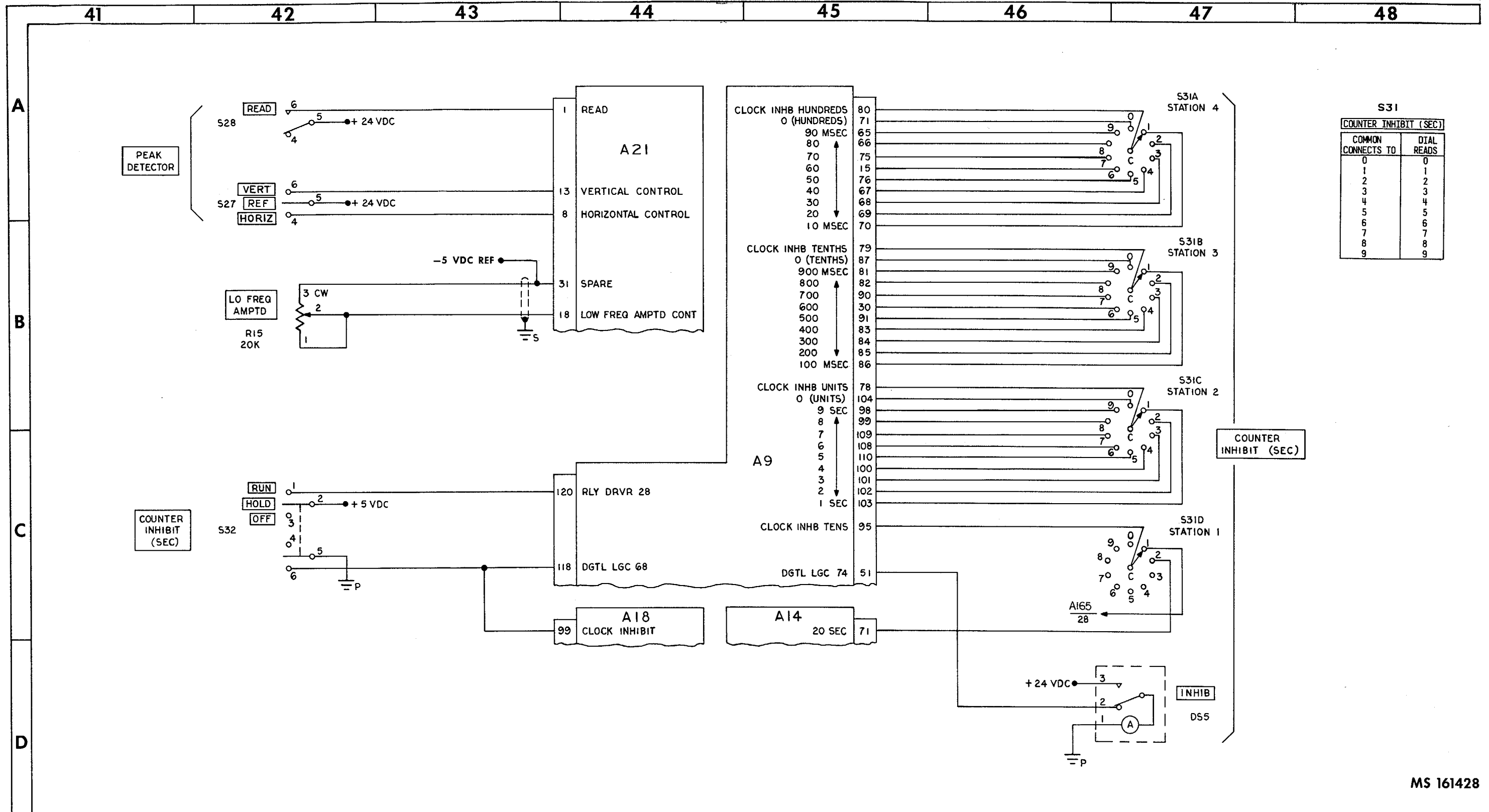
Figure 4-1. DMS-D - schematic diagram (sheet 5 of 30)



INTERNAL TEST S33	
SWITCH POSITIONS	PANEL NOMEN
1. 13	OFF
2. 14	1
3. 15	2
4. 16	3
5. 17	4
6. 18	5
7. 19	6
8. 20	7
9. 21	8
10. 22	9
11. 23	10
12. 24	11

Figure 4-1. DMS-D - schematic diagram (sheet 6 of 30)

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S31

COUNTER INHIBIT (SEC)	
COMMON CONNECTS TO	DIAL READS
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

Figure 4-1. DMS-D - schematic diagram (sheet 7 of 30)

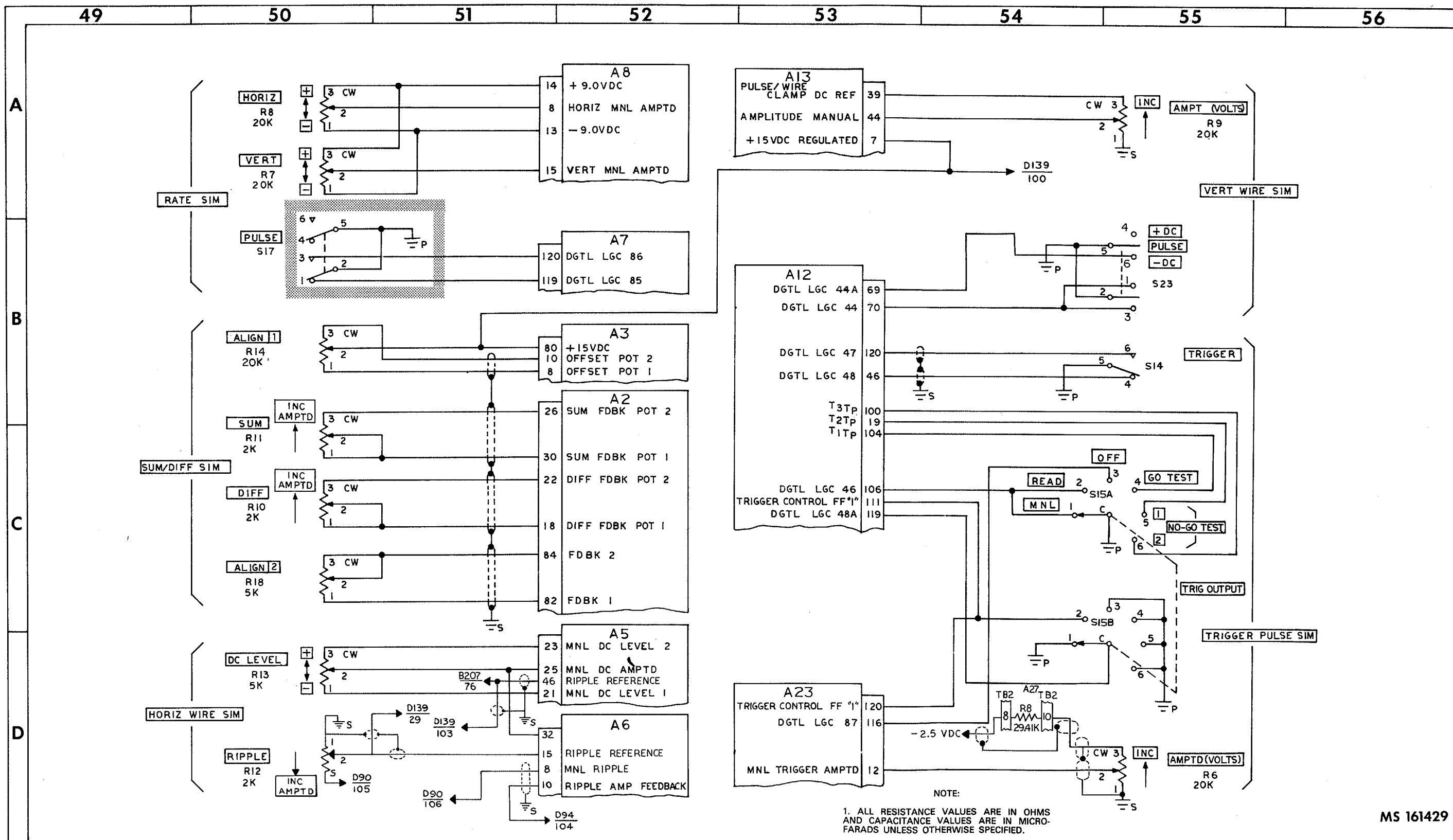
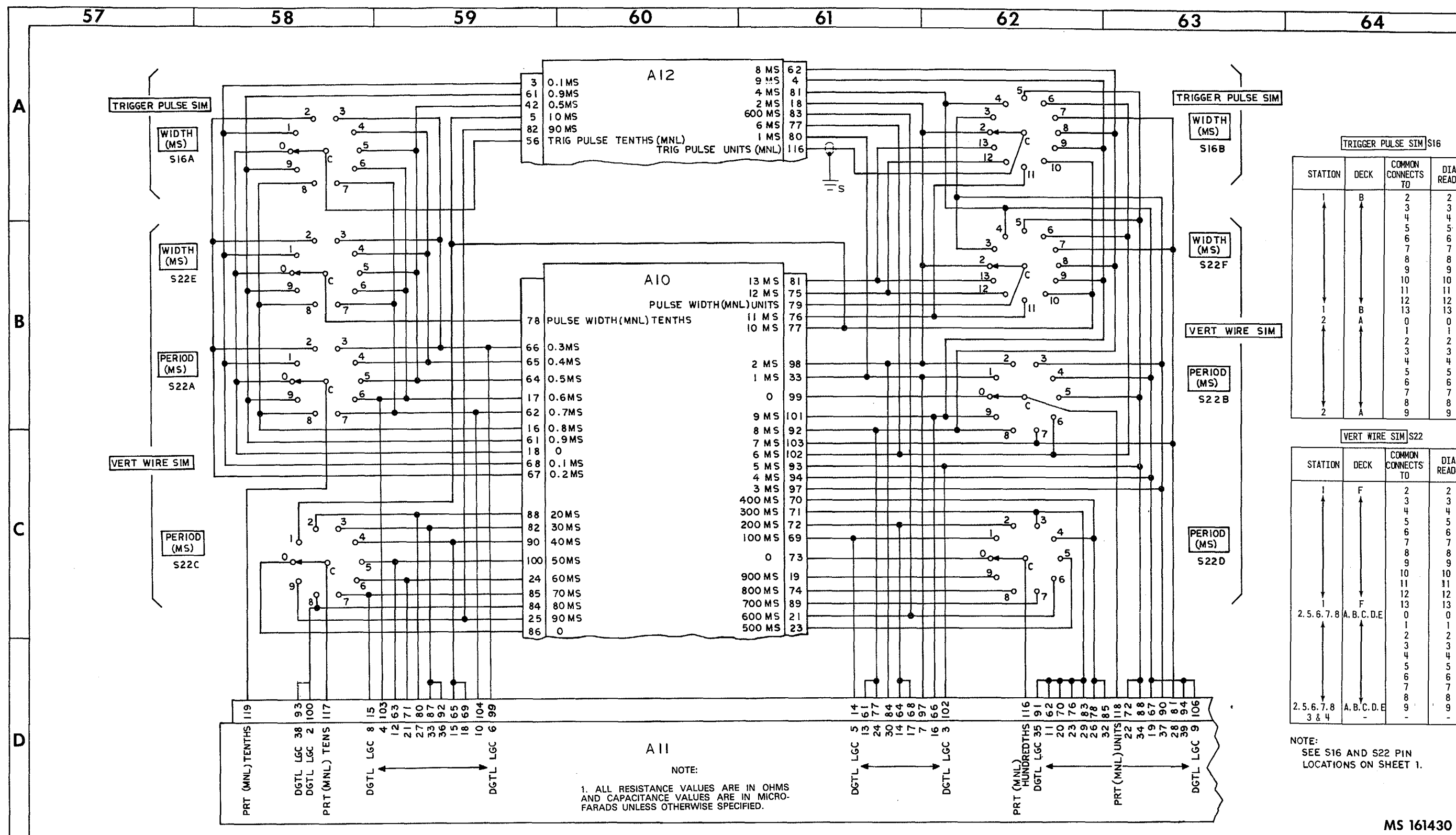


Figure 4-1. DMS-D - schematic diagram (sheet 8 of 30)



TRIGGER PULSE SIM S16B

STATION	DECK	COMMON CONNECTS TO	DIAL READS
1	B	2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		10	10
		11	11
		12	12
		13	13
		0	0
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9

VERT WIRE SIM S22

STATION	DECK	COMMON CONNECTS TO	DIAL READS
1	F	2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
		10	10
		11	11
		12	12
		13	13
		0	0
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8
		9	9
2.5.6.7.8	A.B.C.D.E	-	-
3 & 4	-	-	-

NOTE:
SEE S16 AND S22 PIN LOCATIONS ON SHEET 1.

Figure 4-1. DMS-D - schematic diagram (sheet 9 of 30)

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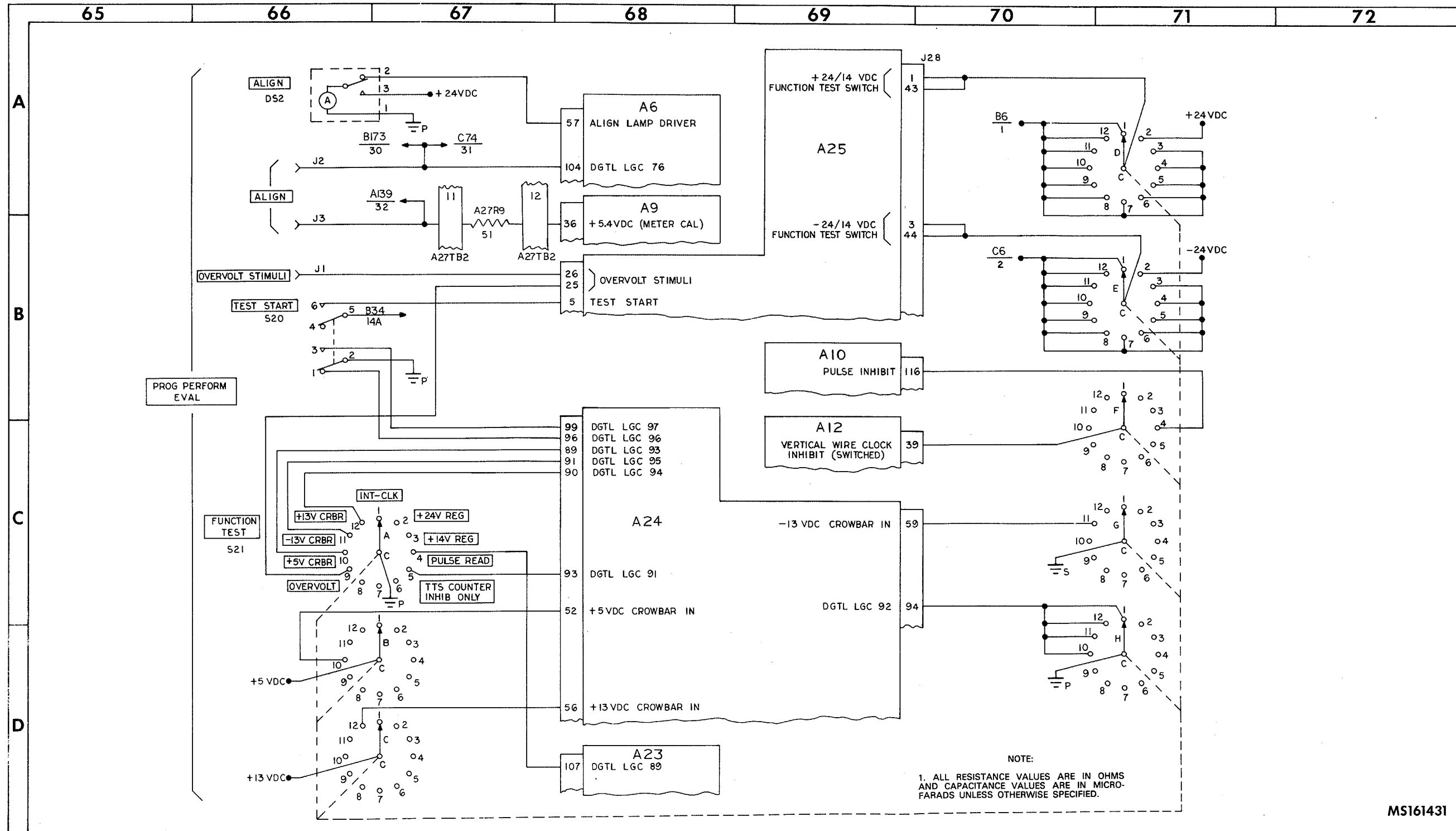


Figure 4-1. DMS-D - schematic diagram (sheet 10 of 30)

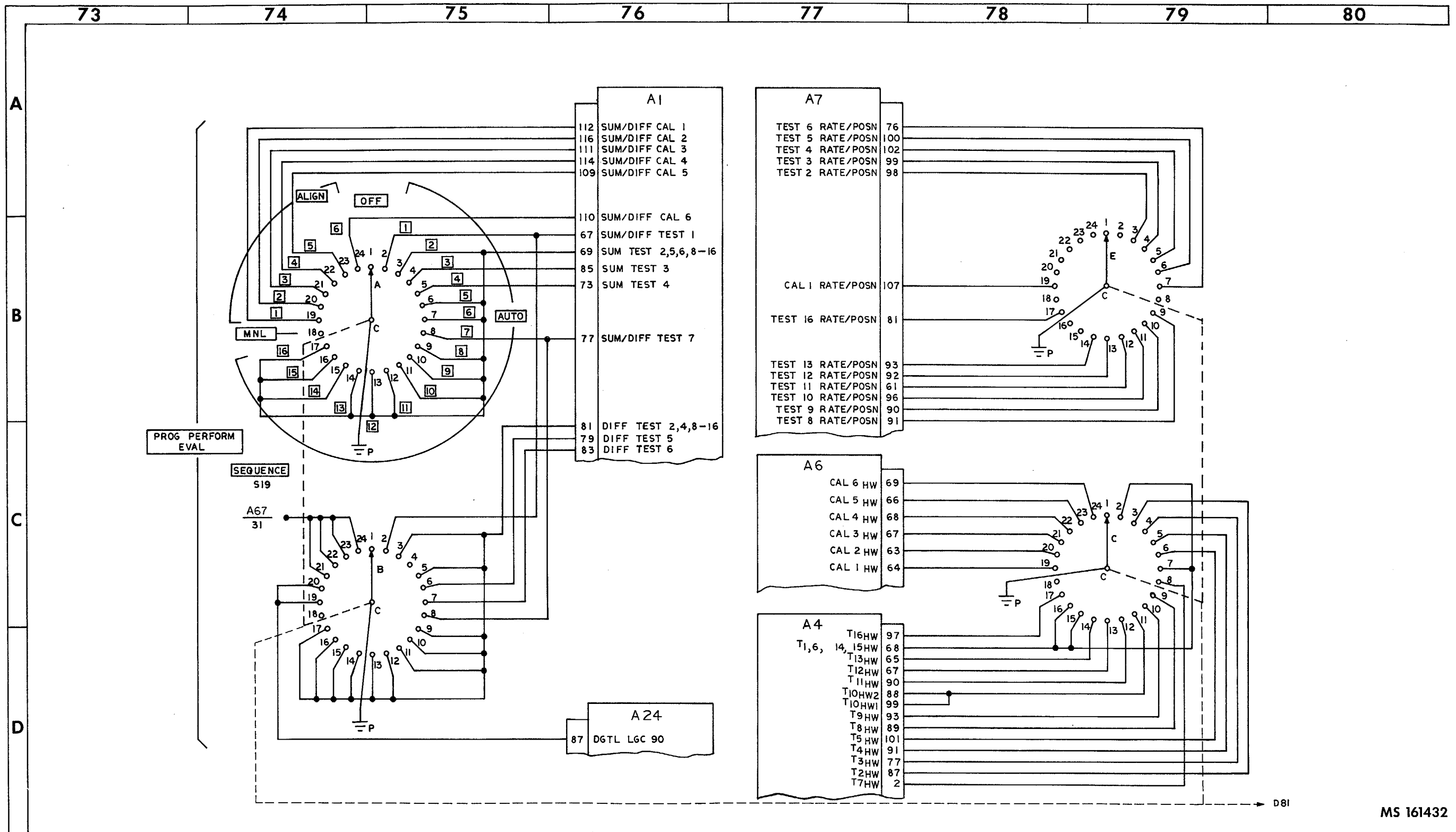


Figure 4-1. DMS-D - schematic diagram (sheet 11 of 30)

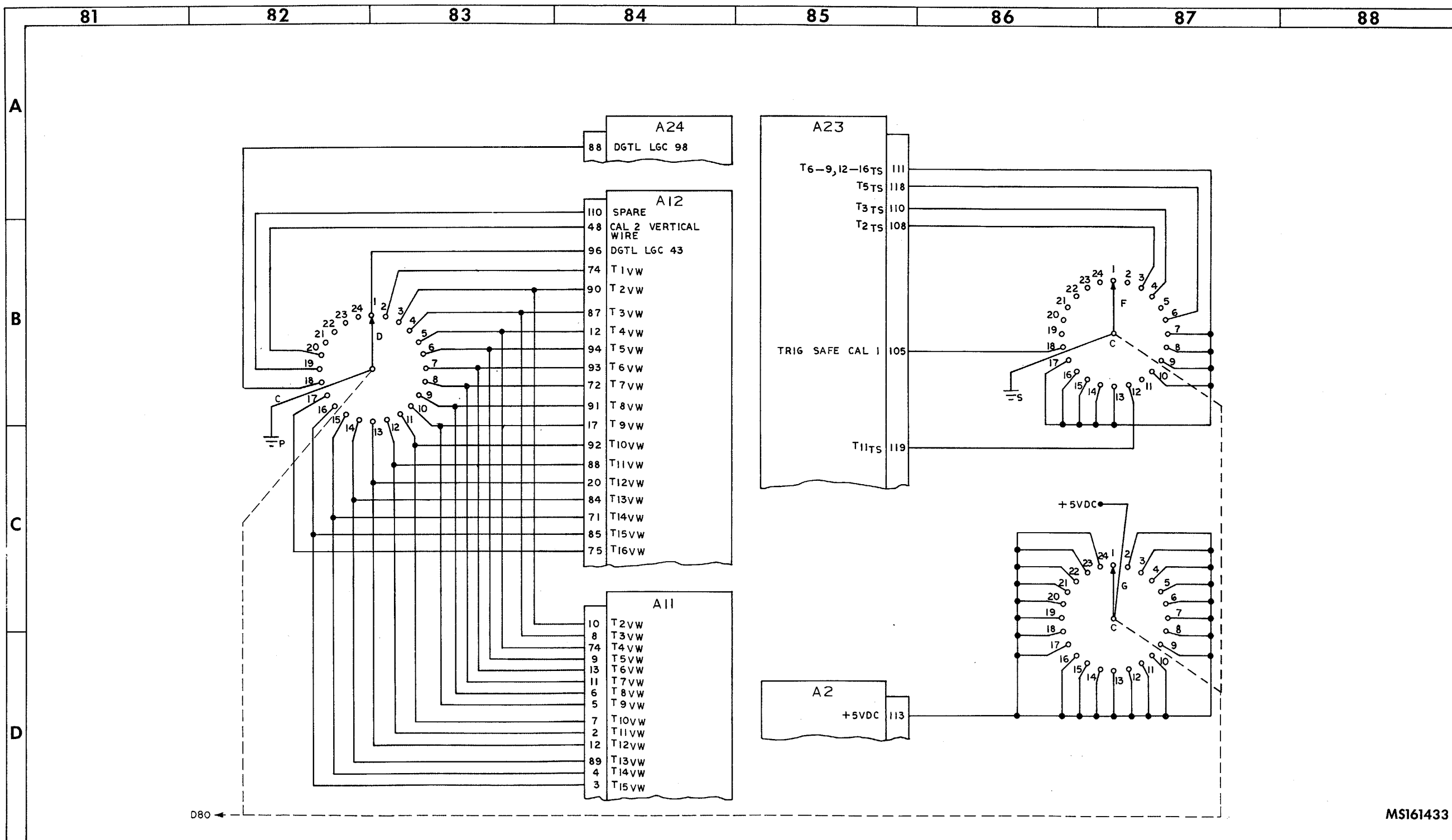


Figure 4-1 . DMS-D - schematic diagram
(sheet 12 of 30)

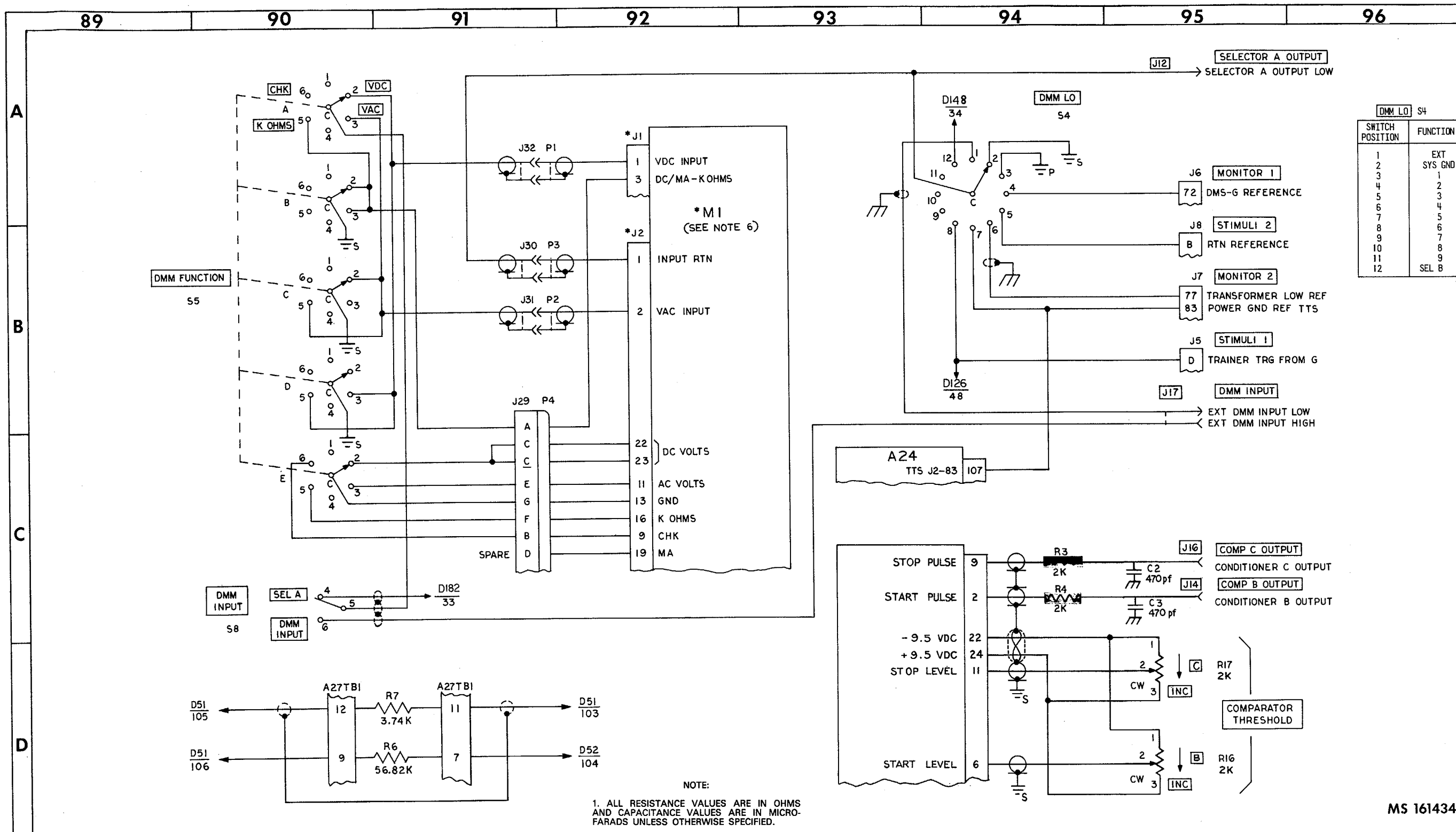
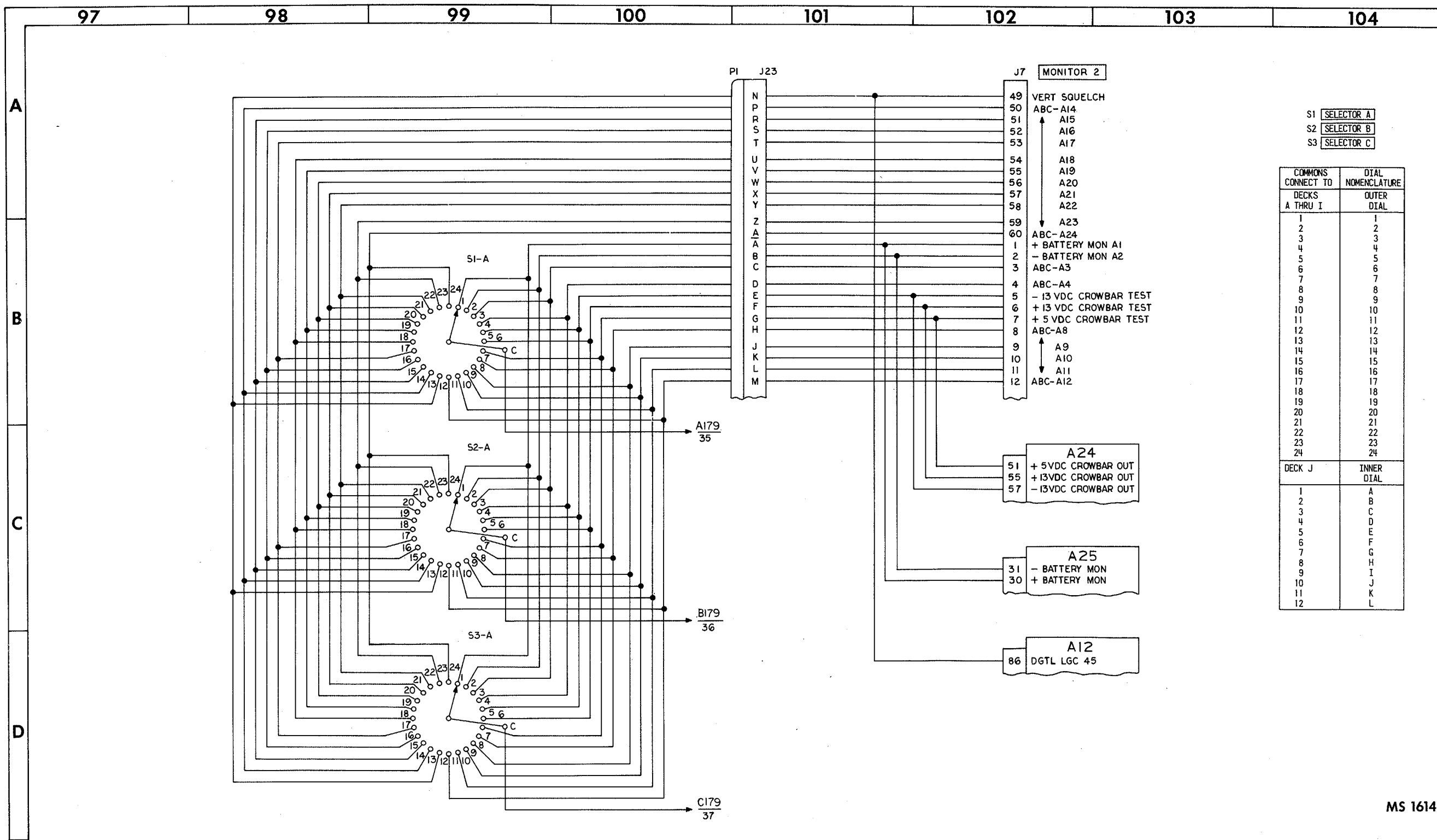


Figure 4-1 . DMS-D - schematic diagram (sheet 13 of 30)

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S1 SELECTOR A
 S2 SELECTOR B
 S3 SELECTOR C

COMMONS CONNECT TO DECKS A THRU I	DIAL NOMENCLATURE OUTER DIAL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24

DECK J	INNER DIAL
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L

Figure 4-1. DMS-D - schematic diagram
 (sheet 14 of 30)

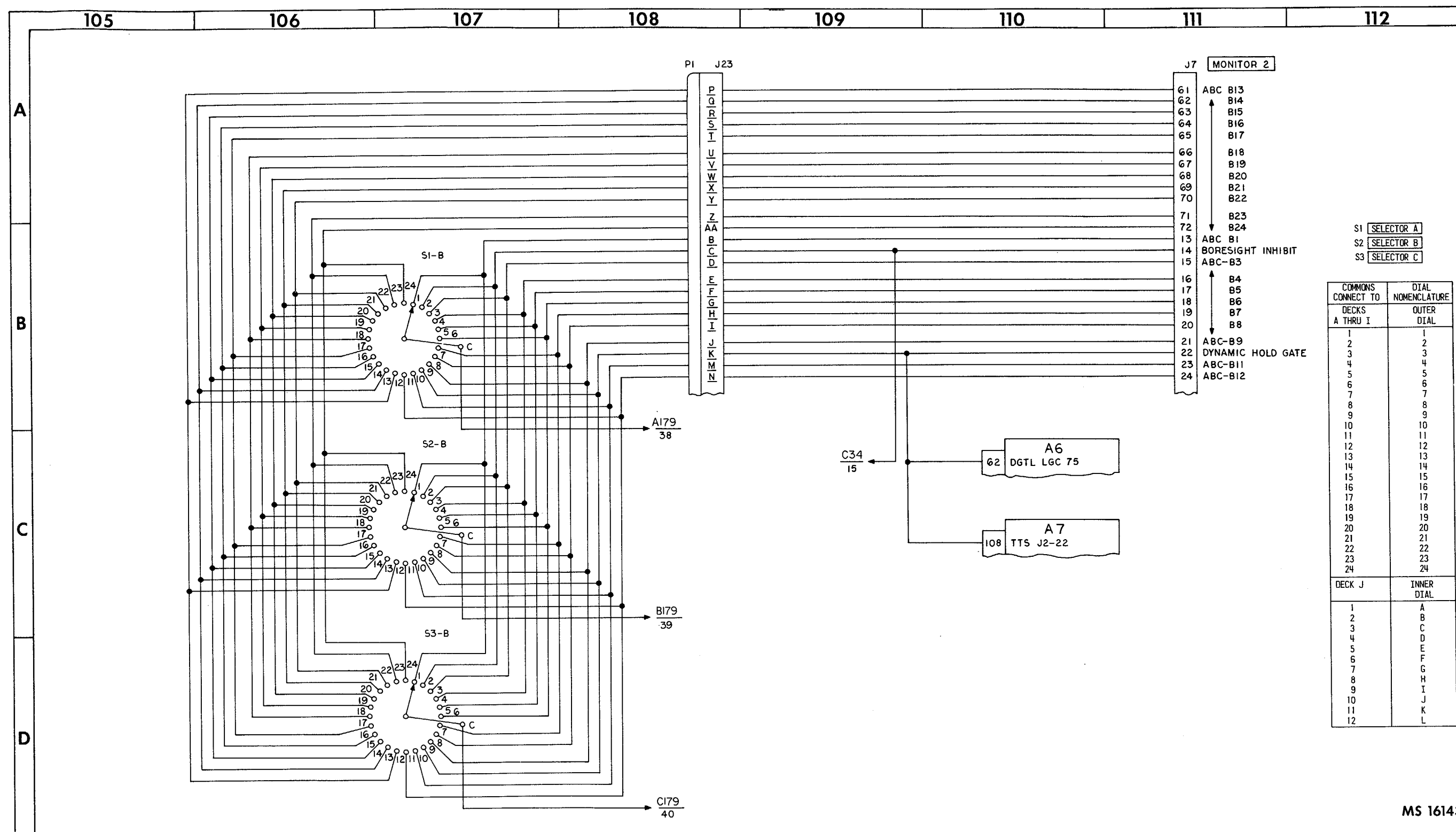
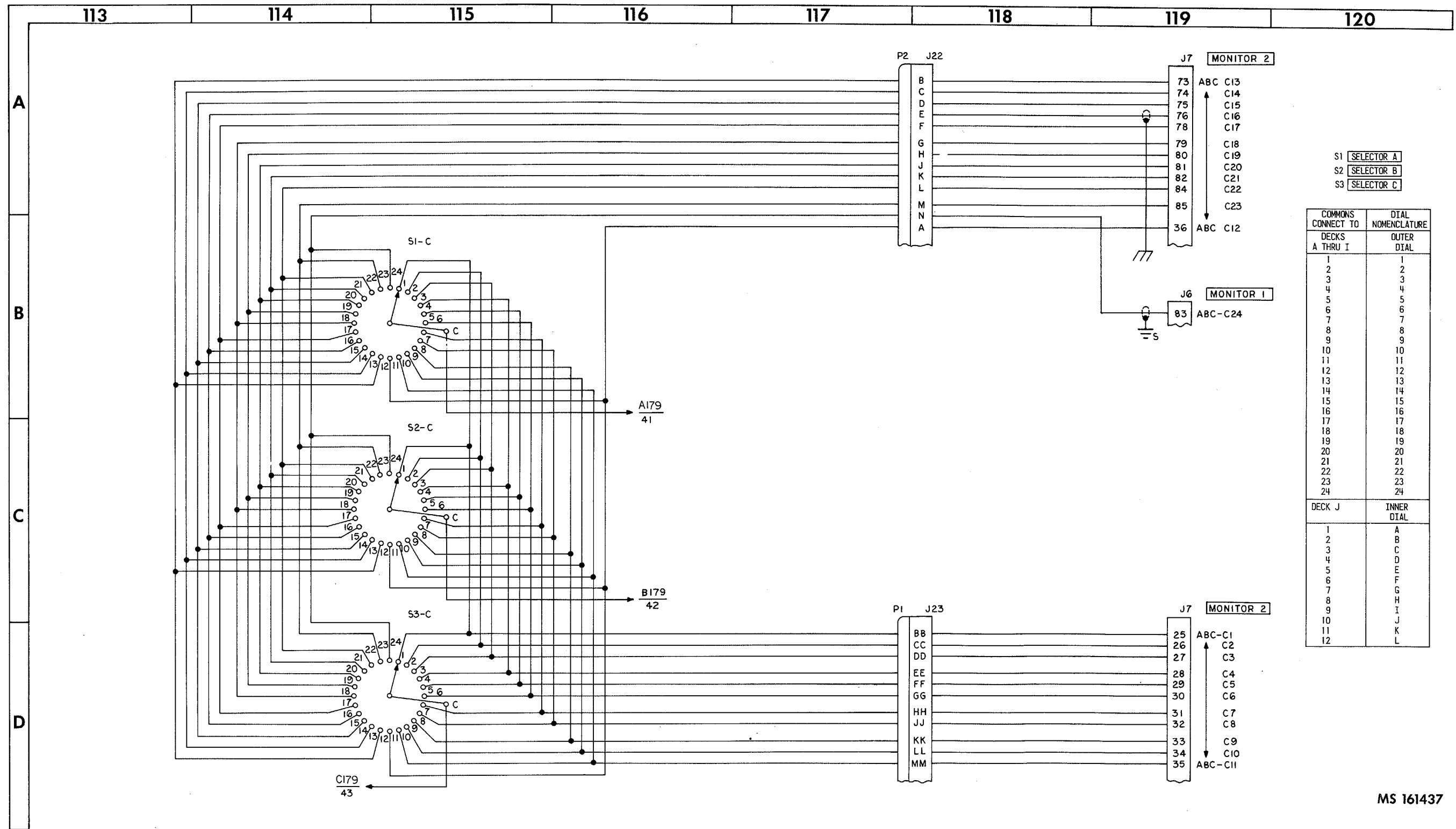
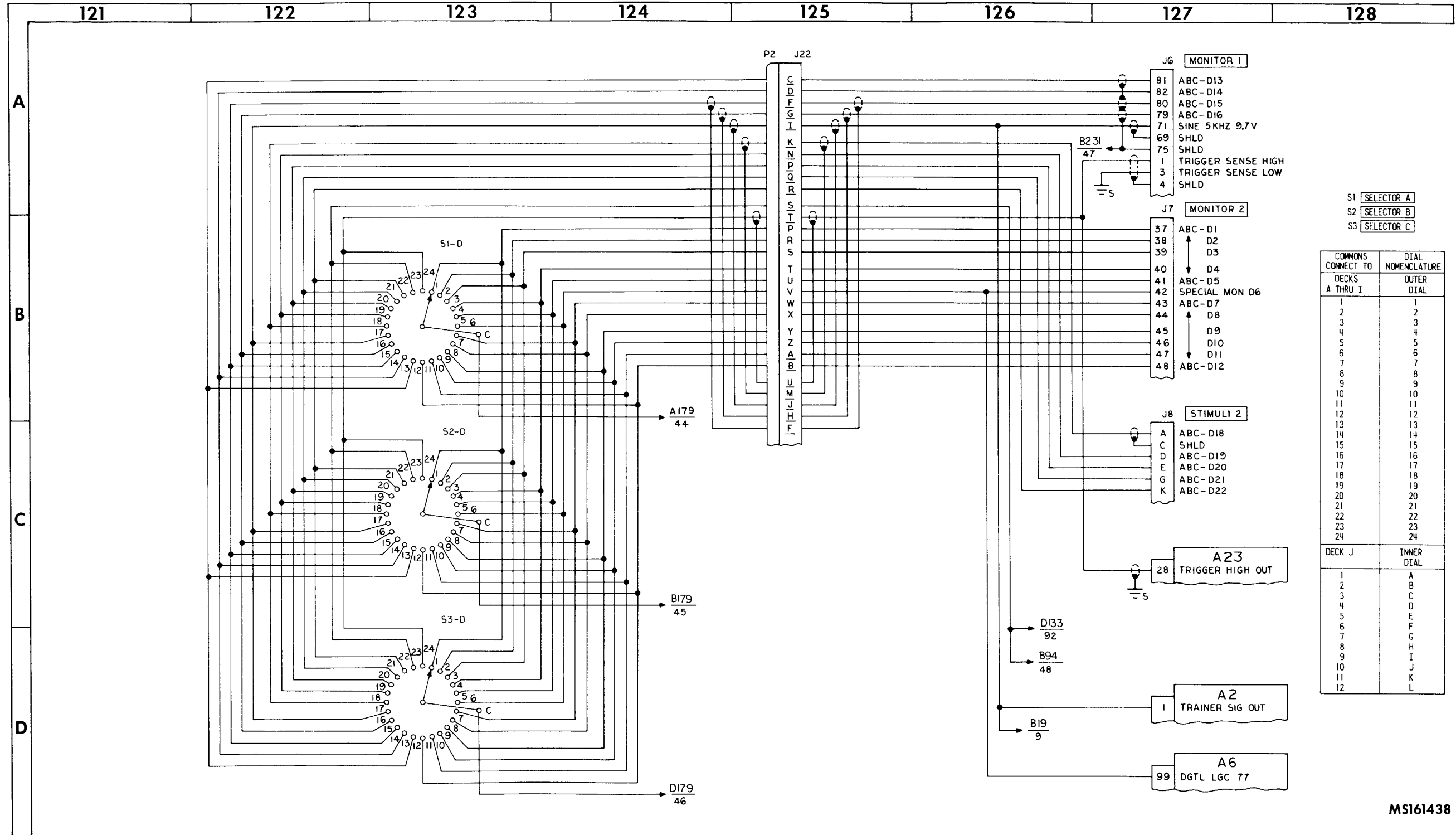


Figure 4-1. DMS-D - schematic diagram (sheet 15 of 30)



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Figure 4-1. DMS-D - schematic diagram (sheet 16 of 30)



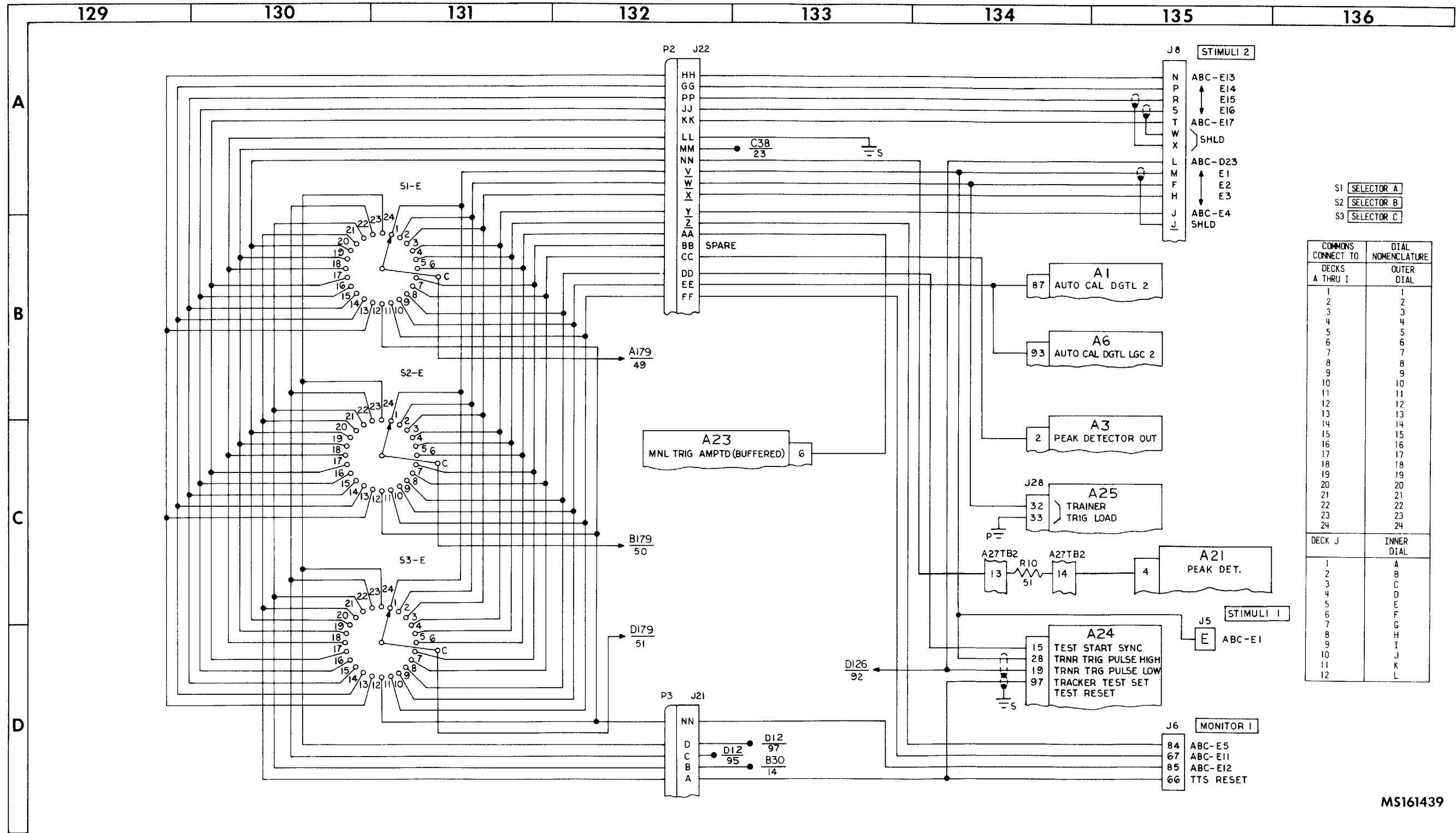
S1 SELECTOR A
S2 SELECTOR B
S3 SELECTOR C

COMMONS CONNECT TO DECKS A THRU I	DIAL NOMENCLATURE OUTER DIAL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24

DECK J	INNER DIAL
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L

Figure 4-1. DMS-D - schematic diagram (sheet 17 of 30)

MS161438

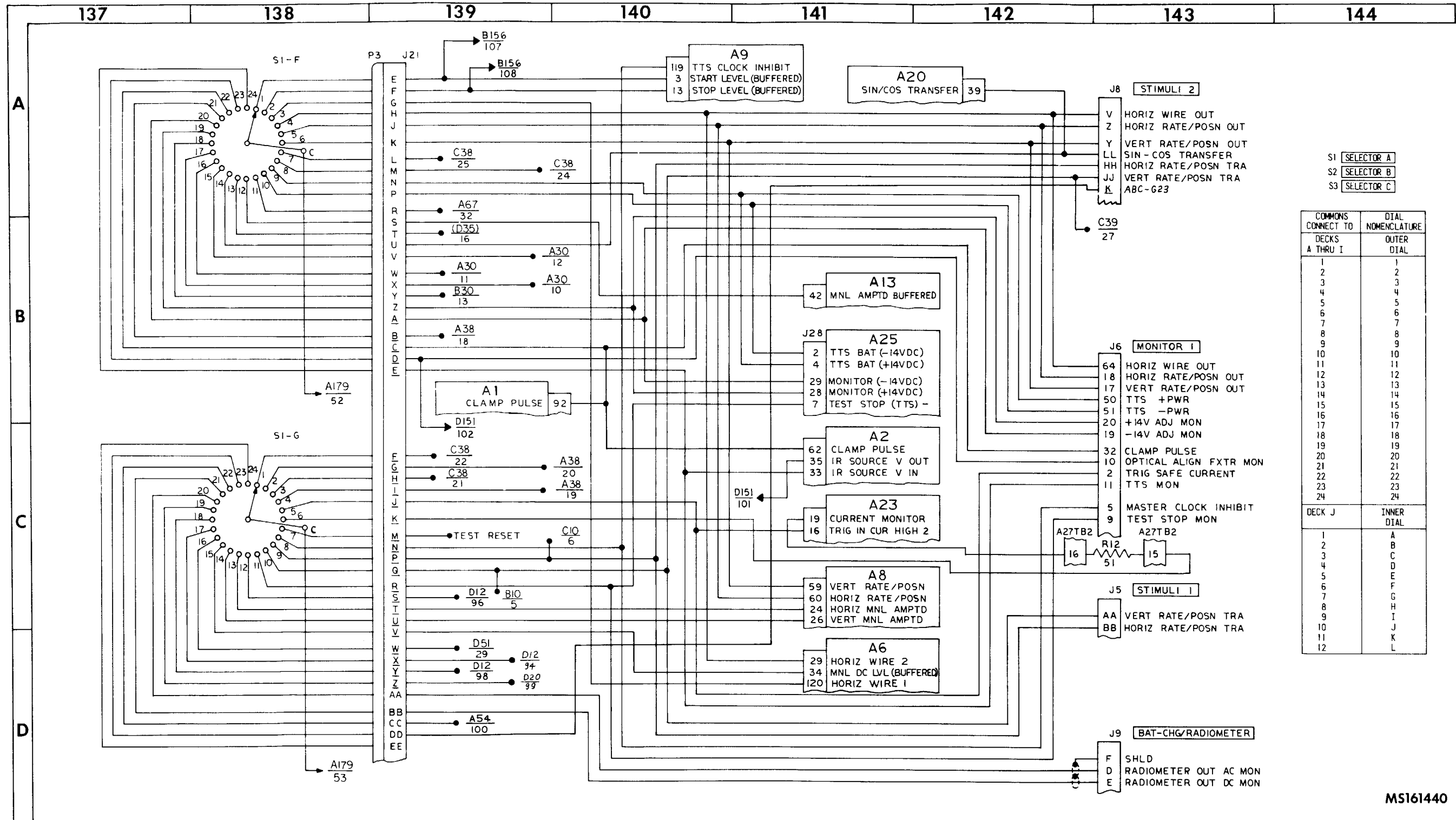


S1 SELECTOR A
 S2 SELECTOR B
 S3 SELECTOR C

COMMONS CONNECT TO DECKS A THRU I	DIAL NOMENCLATURE OUTER DIAL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24

DECK J	INNER DIAL
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L

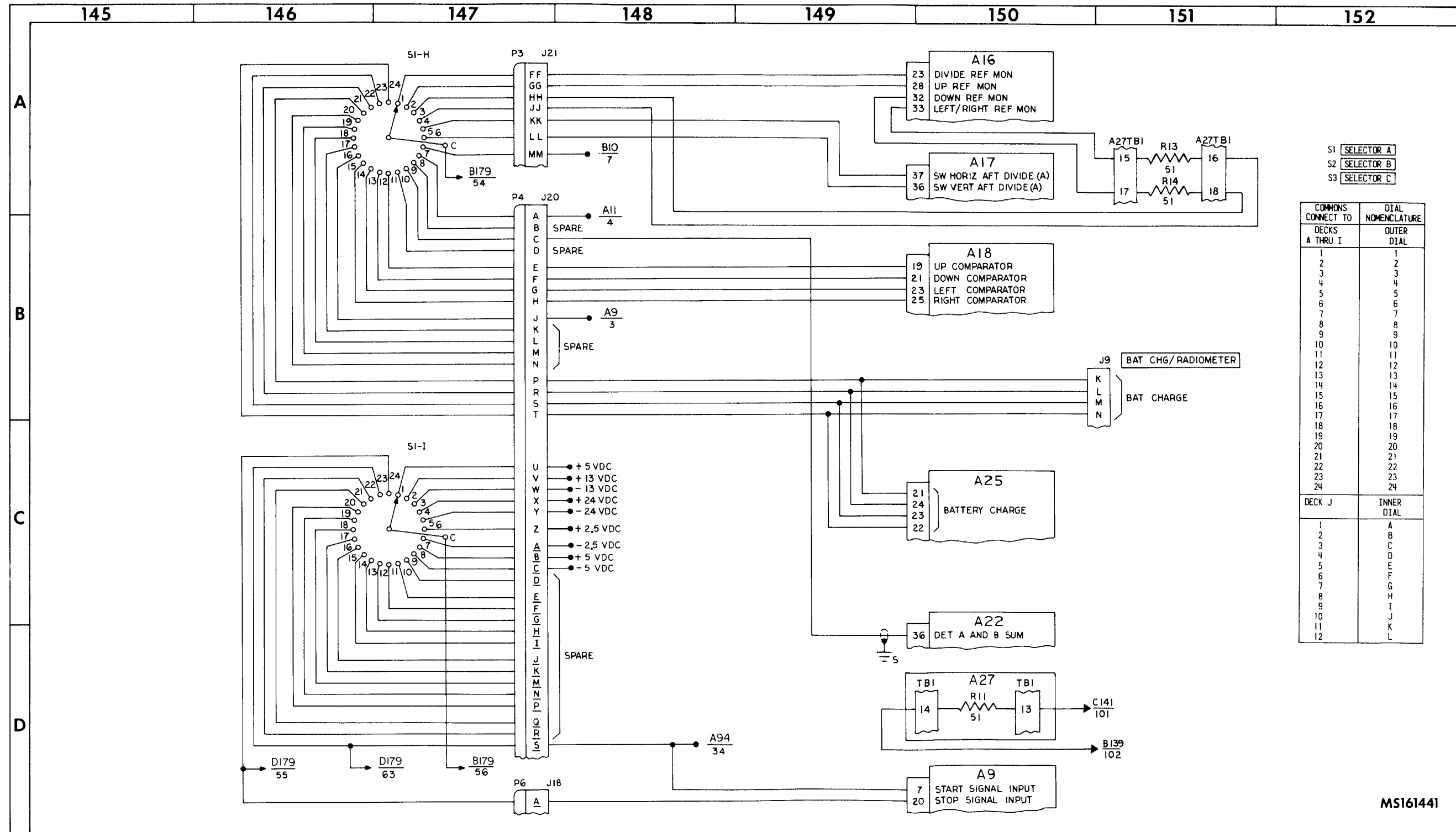
Figure 4-1 DMS-D- schematic diagram (sheet 18 of 30)



S1 SELECTOR A
 S2 SELECTOR B
 S3 SELECTOR C

COMMONS CONNECT TO	DIAL NOMENCLATURE
DECK A THRU I	OUTER DIAL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
DECK J	INNER DIAL
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L

Figure 4-1. DMS-D-schematic diagram (sheet 19 of 30)

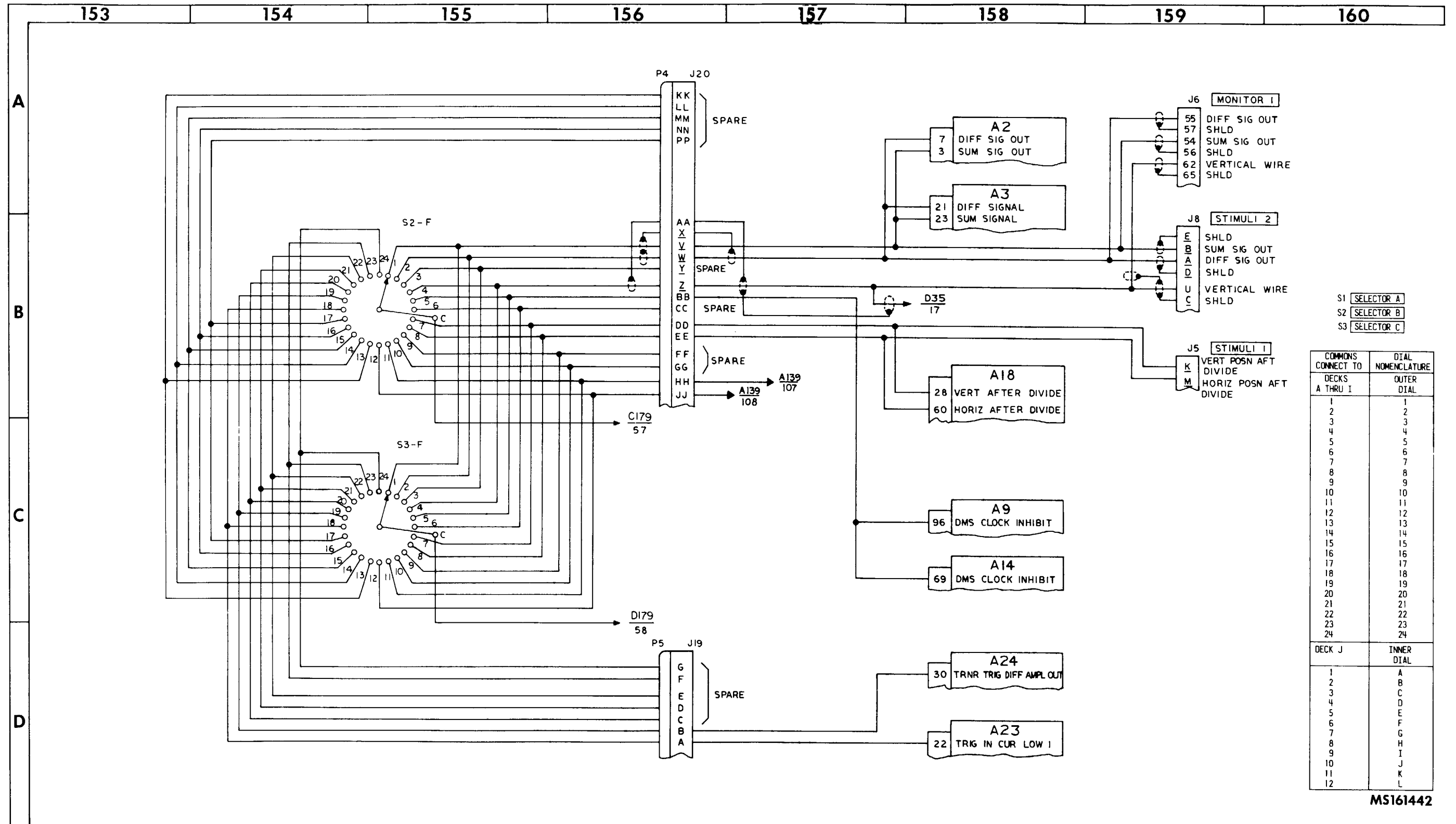


S1 SELECTOR A
 S2 SELECTOR B
 S3 SELECTOR C

COMMONS CONNECT TO DECKS A THRU I	DIAL NOMENCLATURE OUTER DIAL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
DECK J	INNER DIAL
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L

Figure 4-1. DMS-D-schematic diagram (sheet 20 of 30)
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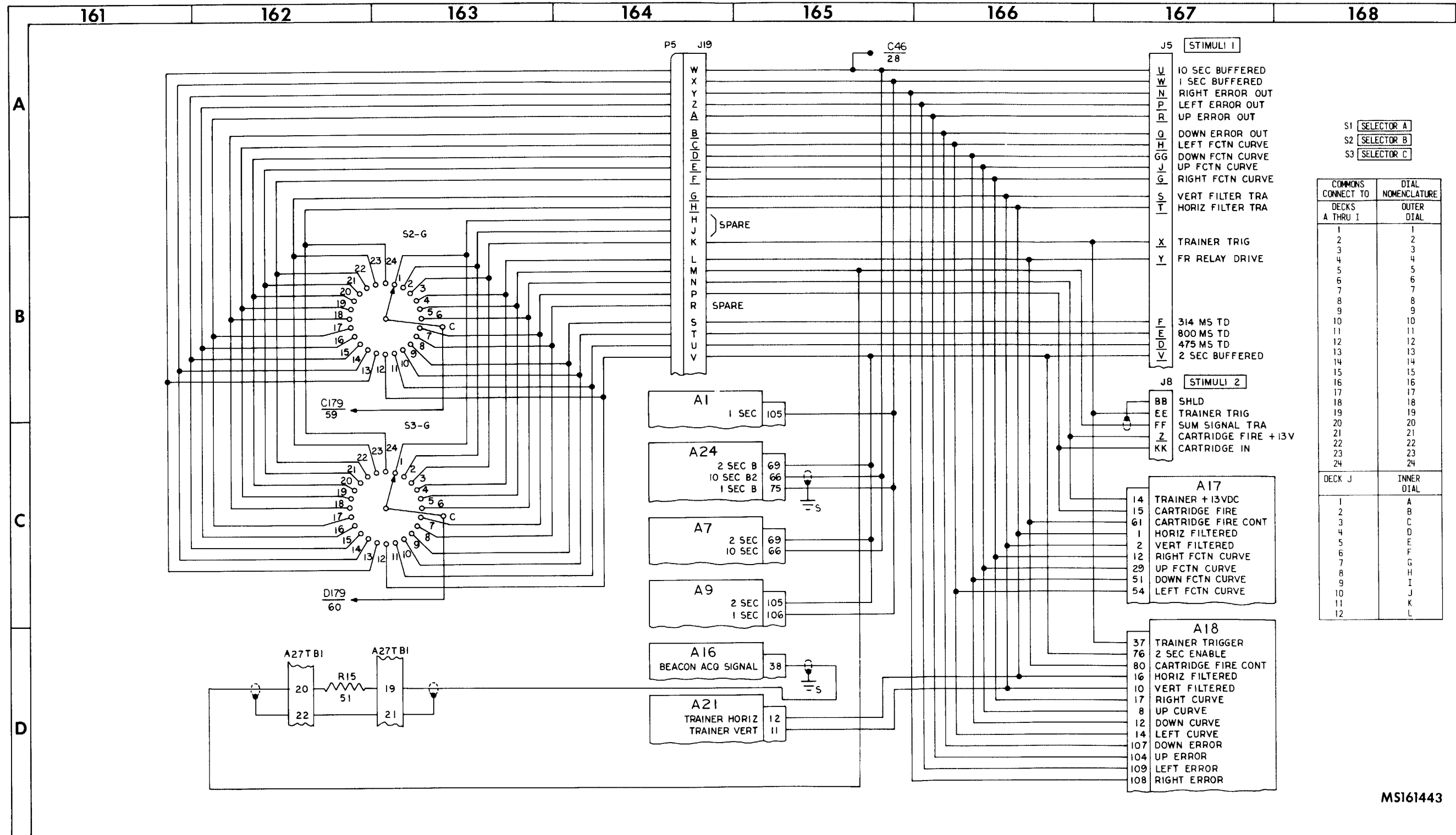


S1 SELECTOR A
 S2 SELECTOR B
 S3 SELECTOR C

COMMONS CONNECT TO	DIAL NOMENCLATURE
DECKS A THRU I	OUTER DIAL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
DECK J	INNER DIAL
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L

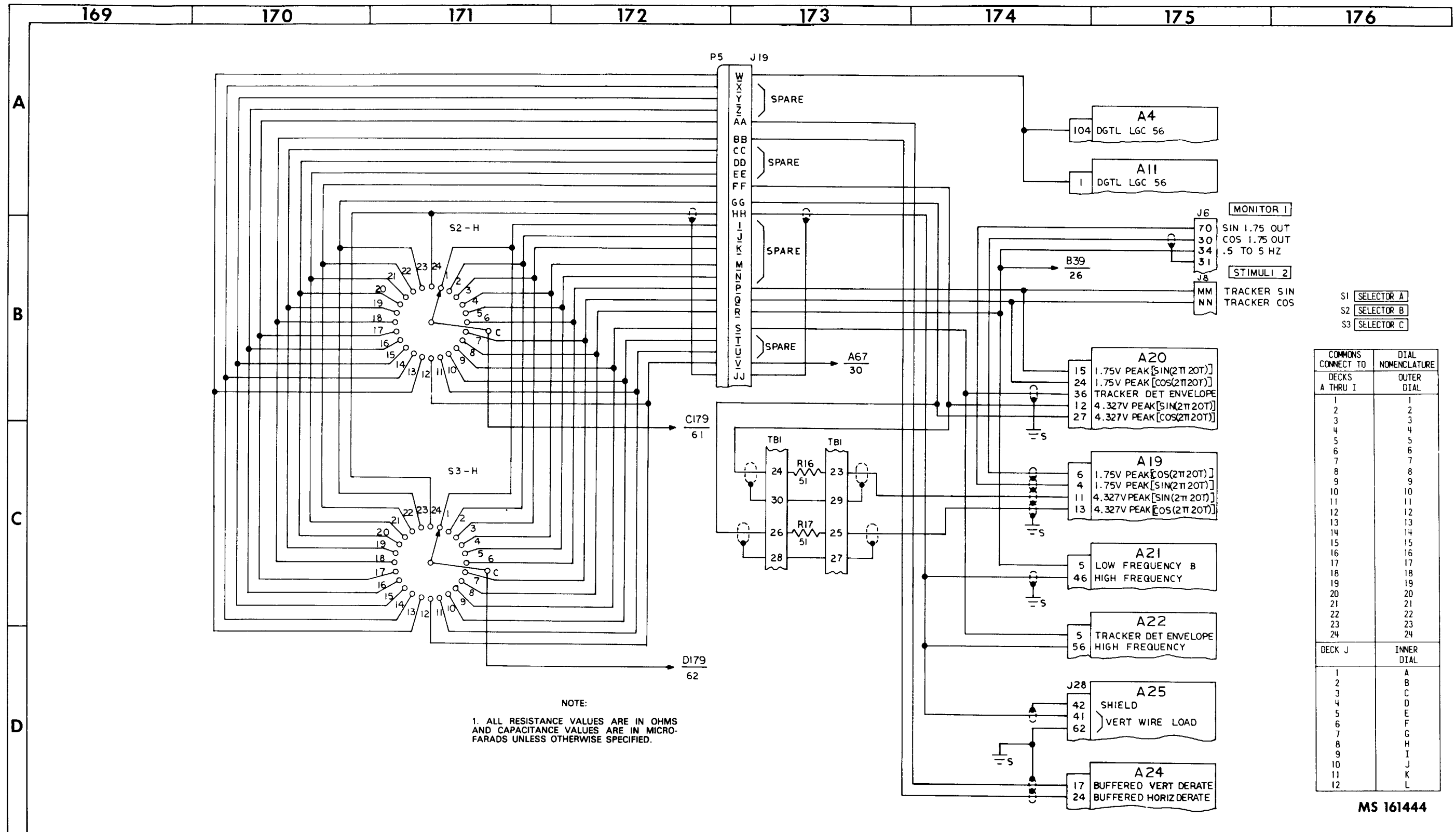
MS161442

Figure 41. DMS-D- schematic diagram (sheet 21 of 30)



MS161443

Figure 4-1. DMS-D- schematic diagram (sheet 22 of 30)



- S1 SELECTOR A
- S2 SELECTOR B
- S3 SELECTOR C

COMMONS CONNECT TO DECKS A THRU I	DIAL NOMENCLATURE OUTER DIAL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
DECK J	INNER DIAL
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L

MS 161444

Figure 4-1. DMS-D - schematic diagram (sheet 23 of 30)

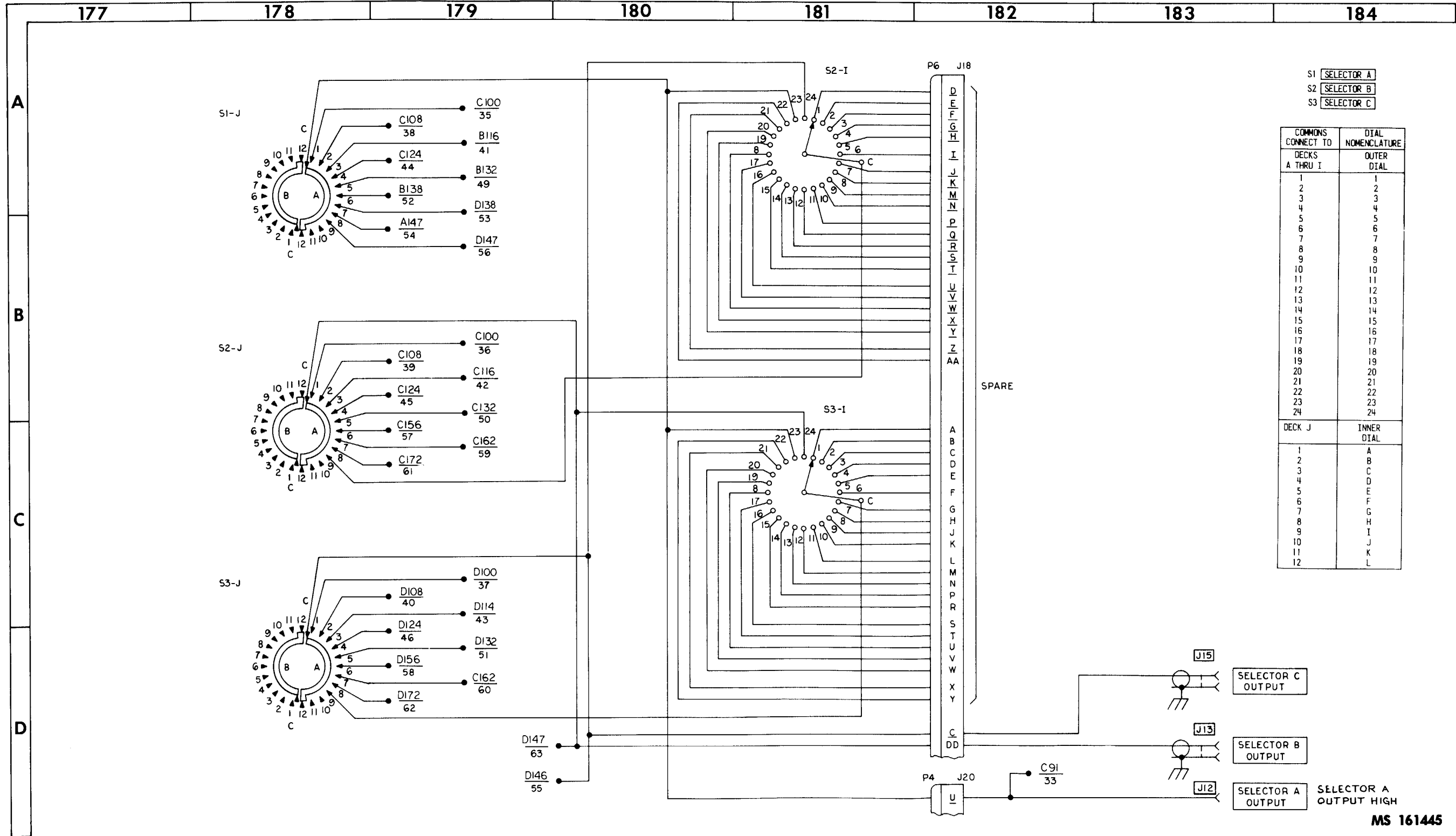
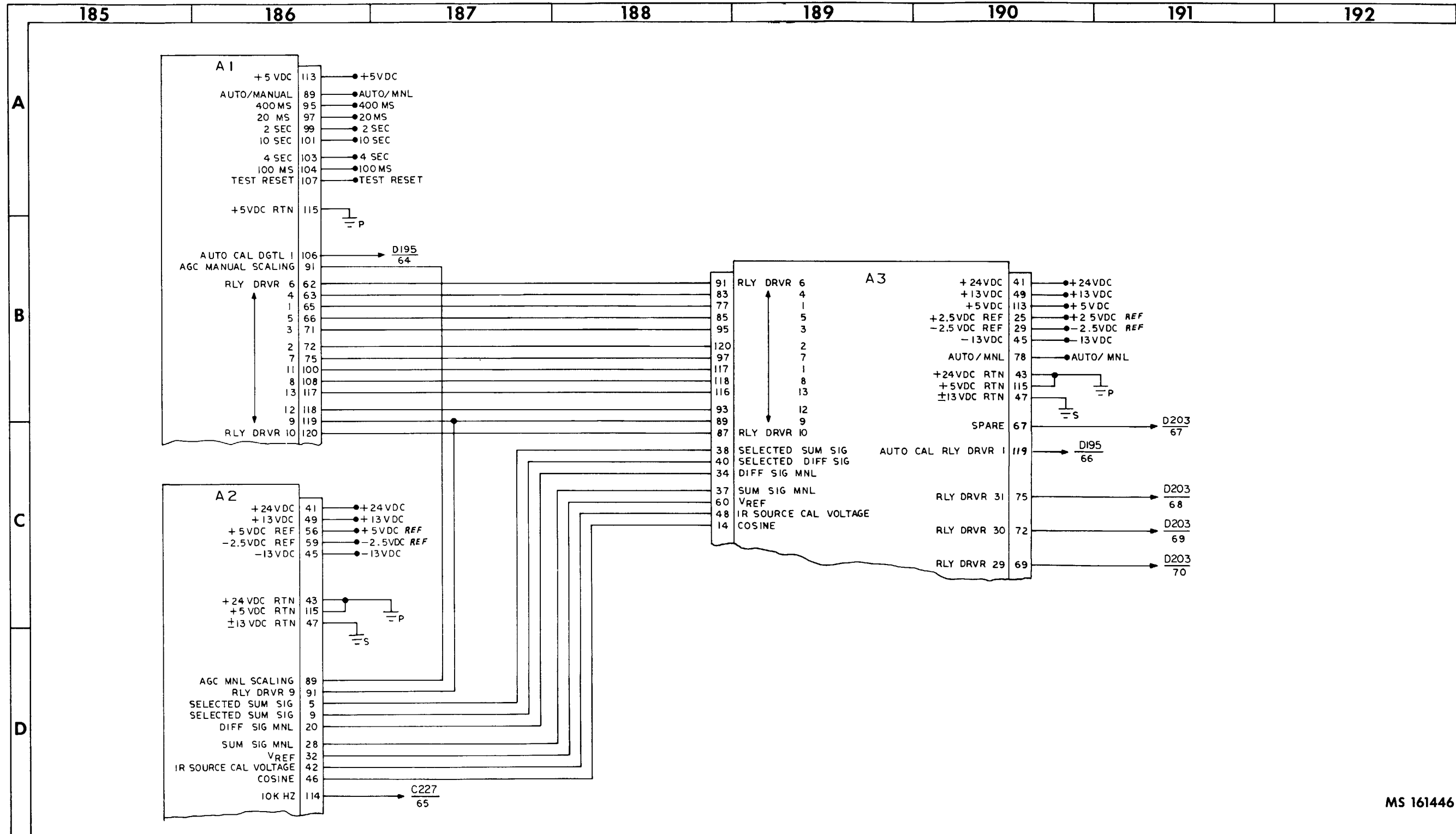
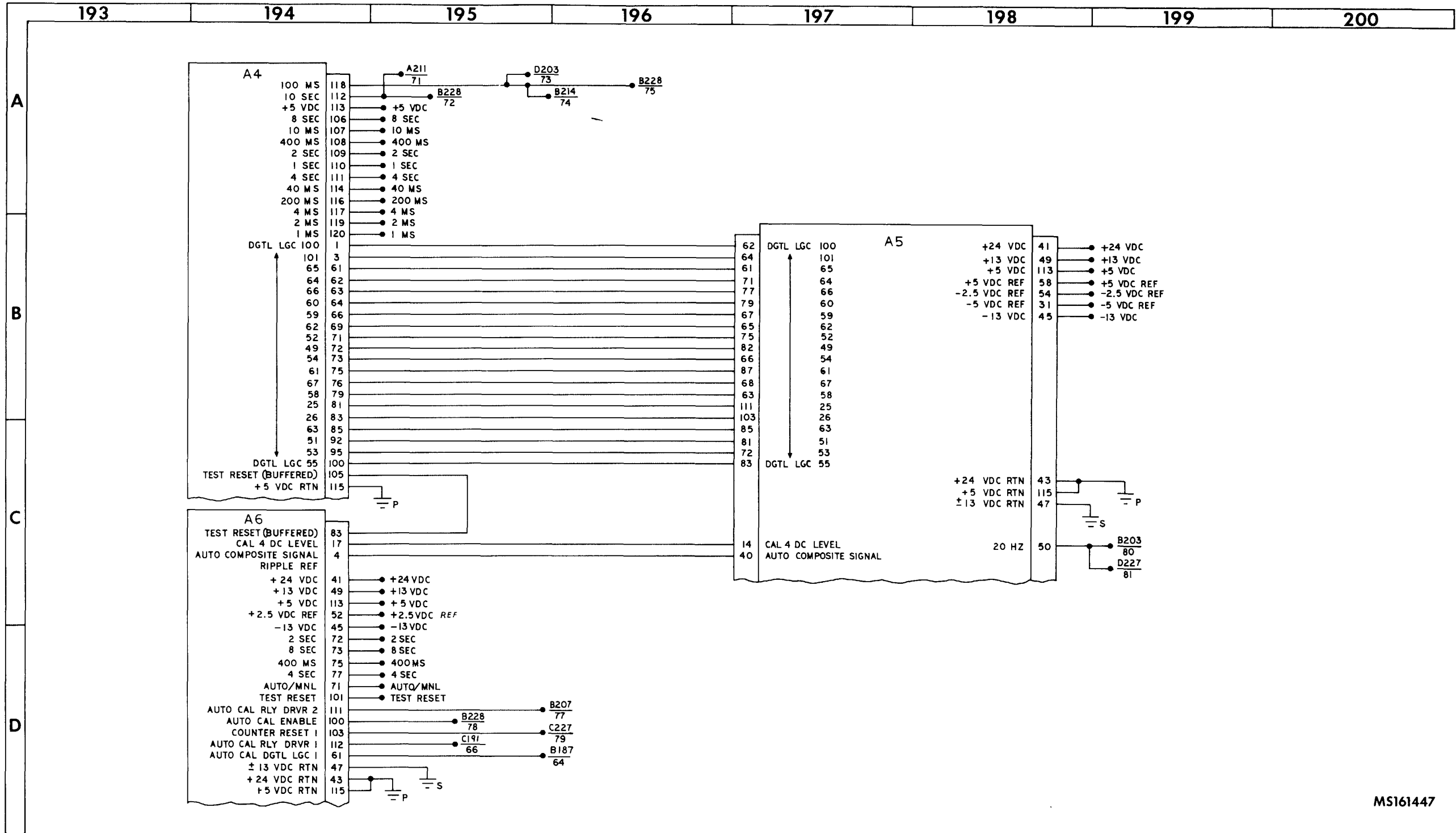


Figure 4-1. DMS-D - schematic diagram (sheet 24 of 30)



MS 161446

figure 4-1. DMS-D -schematic diagram (sheet 25 of 30)



MS161447

Figure 4-1. DMS-D- schematic diagram (sheet 26 of 30)

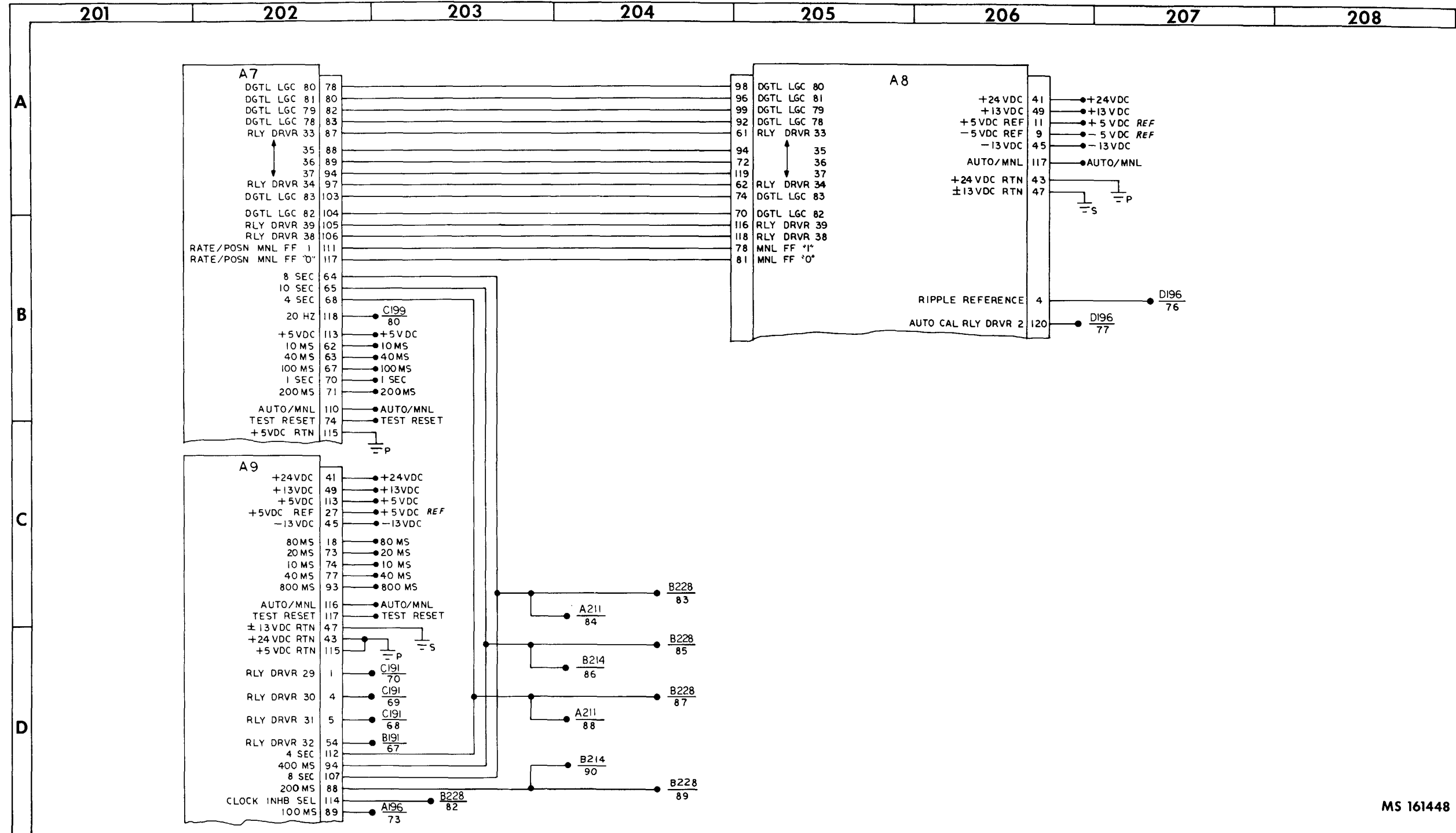
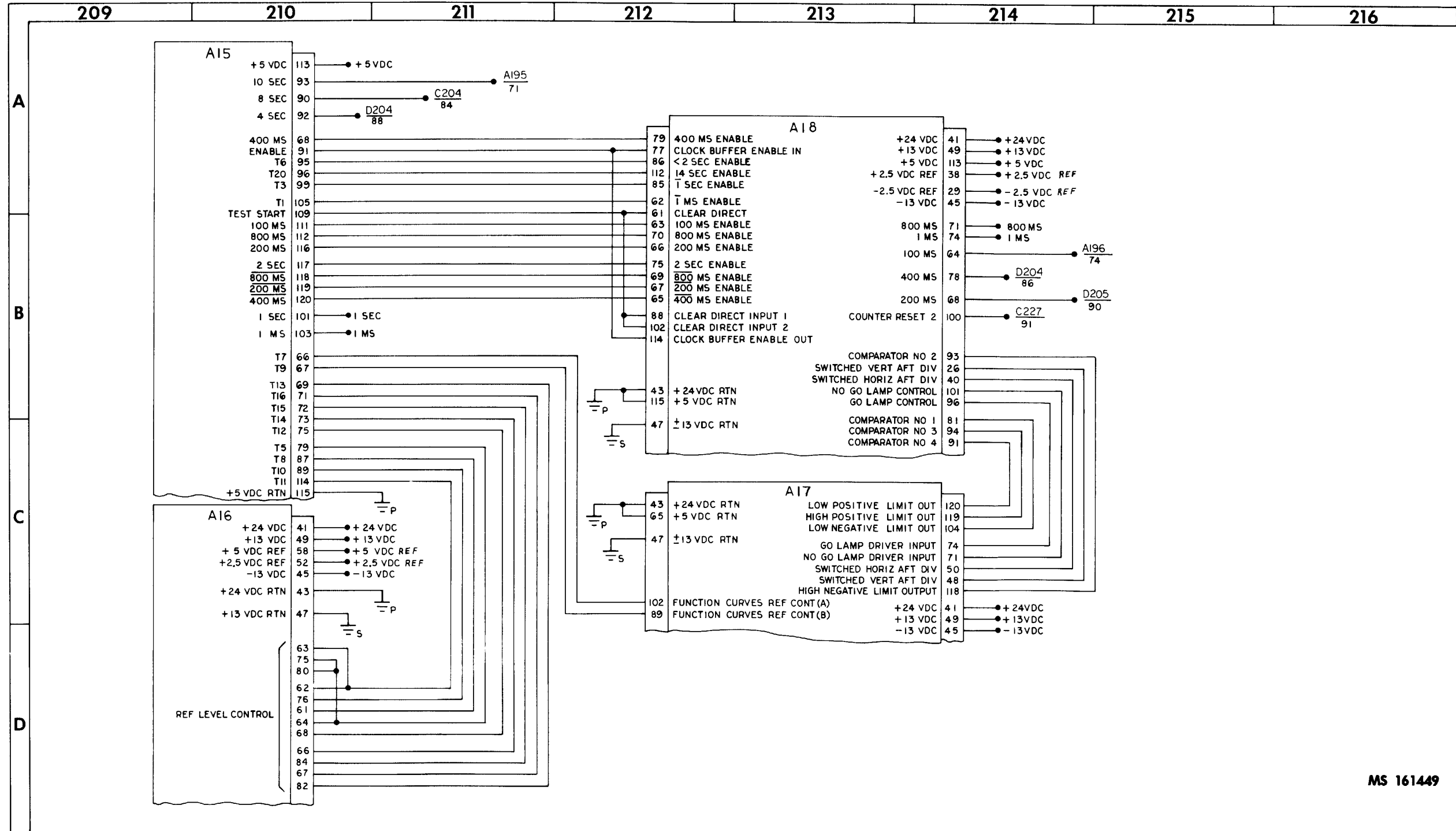


Figure 4-1. DMS-D- schematic diagram (sheet 27 of 30)

MS 161448



MS 161449

Figure 4-1. DMS-D-schematic diagram (sheet 28 of 30)

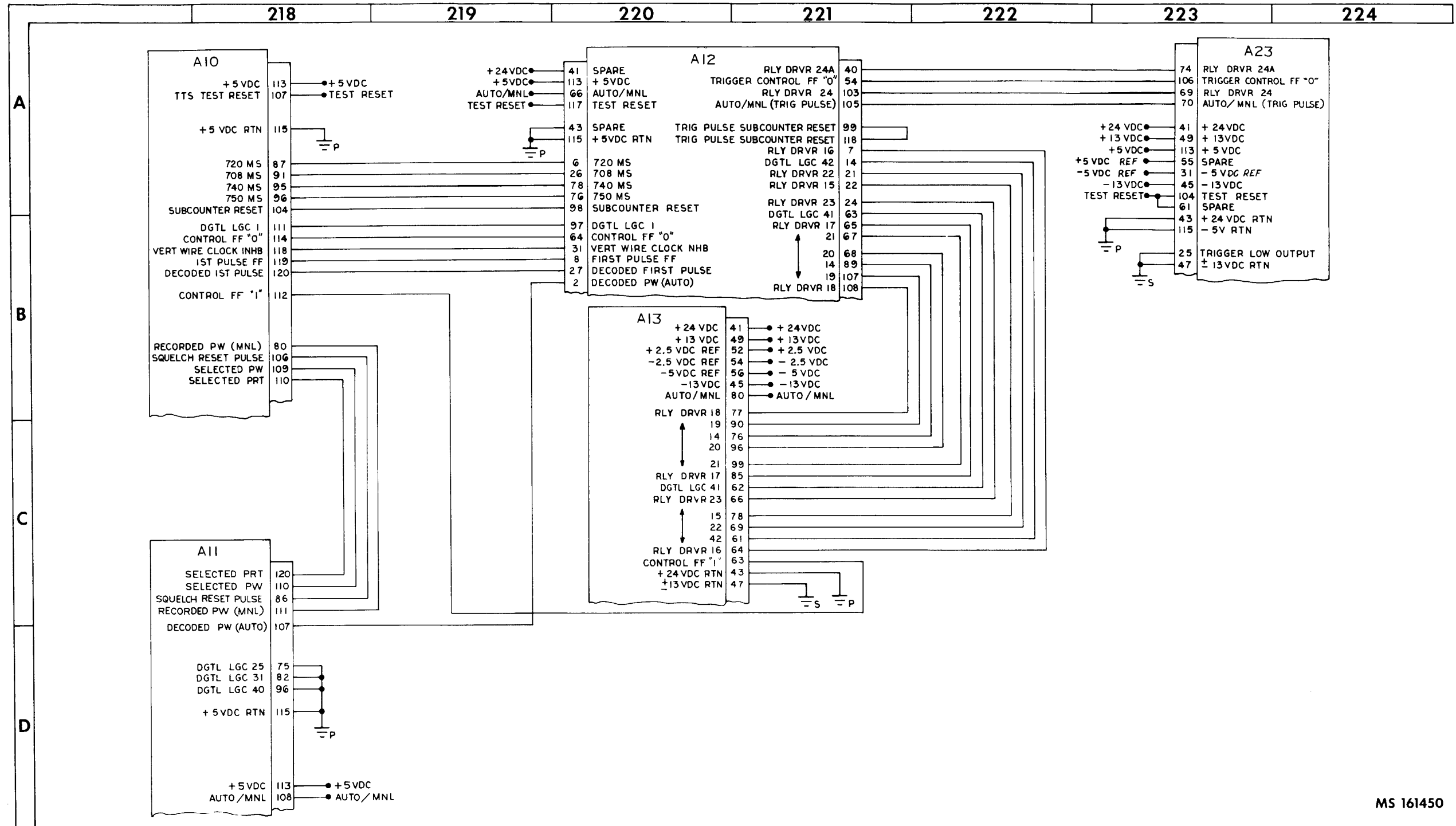
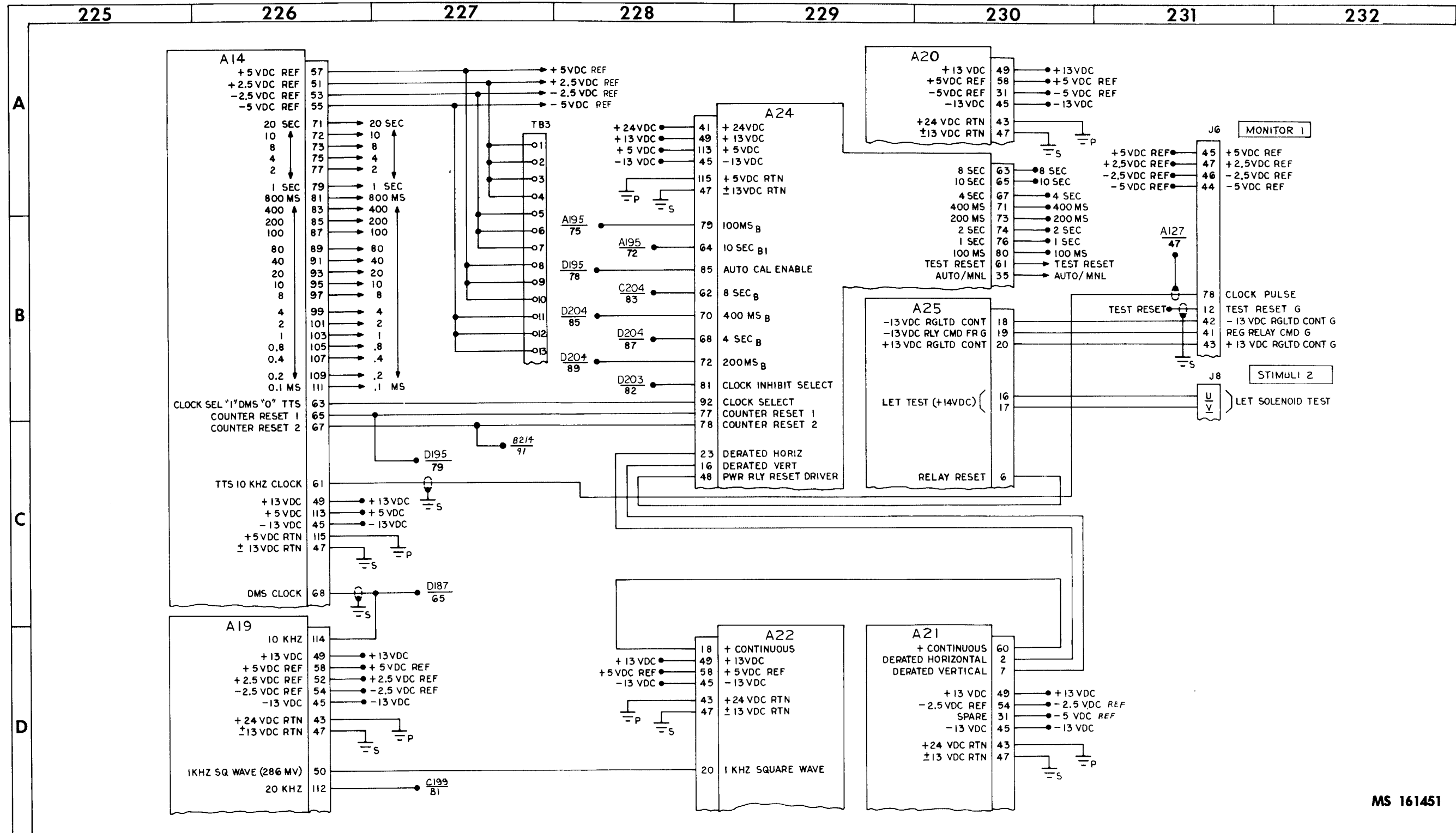


Figure 4-1. DMS-D - schematic diagram (sheet 29 of 30)



MS 161451

Figure 4-1. DMS-D-schematic diagram (sheet 30 of 30)

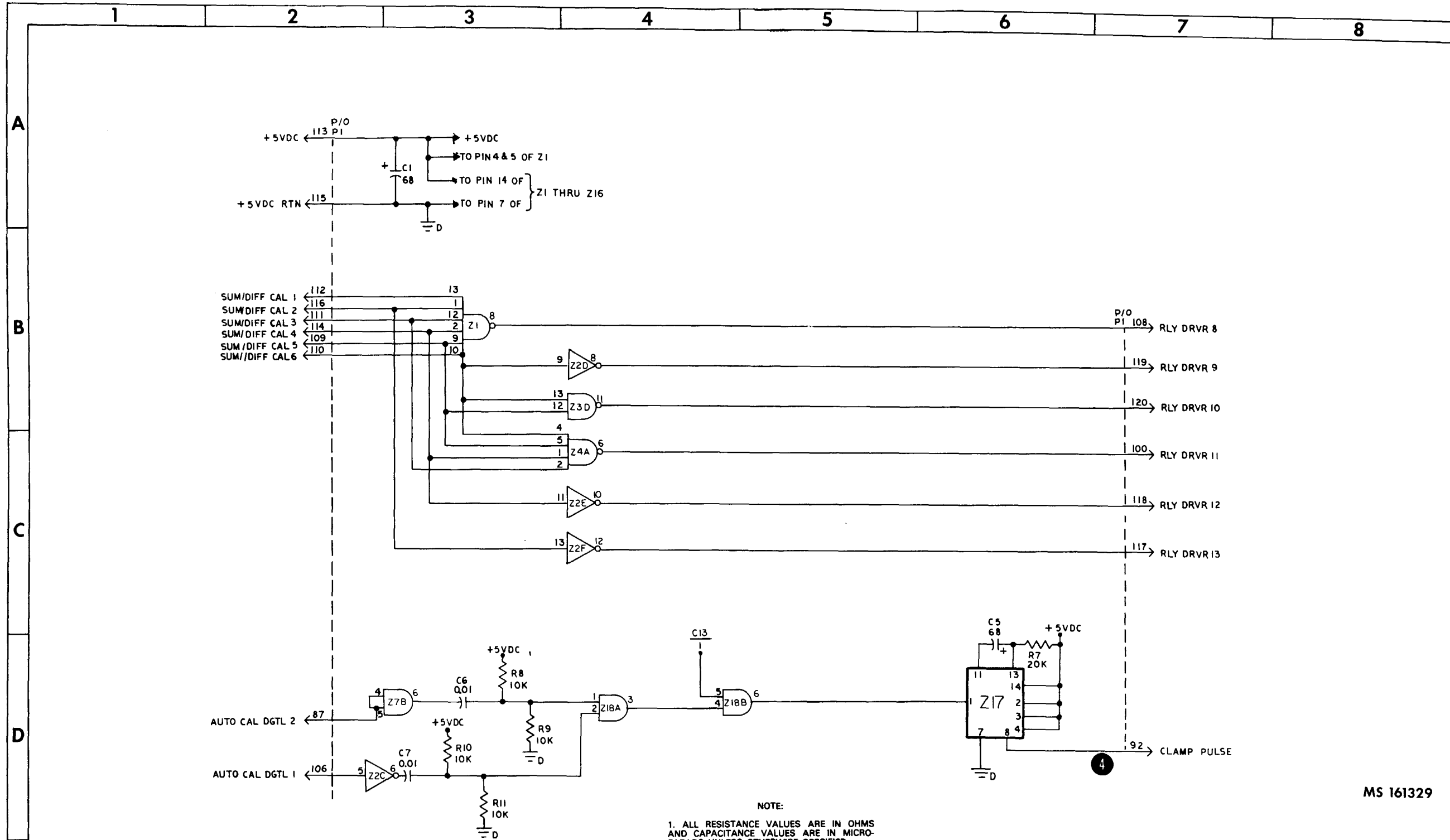


Figure 4-2. DMS-D card A1 schematic diagram (sheet 1 of 3)

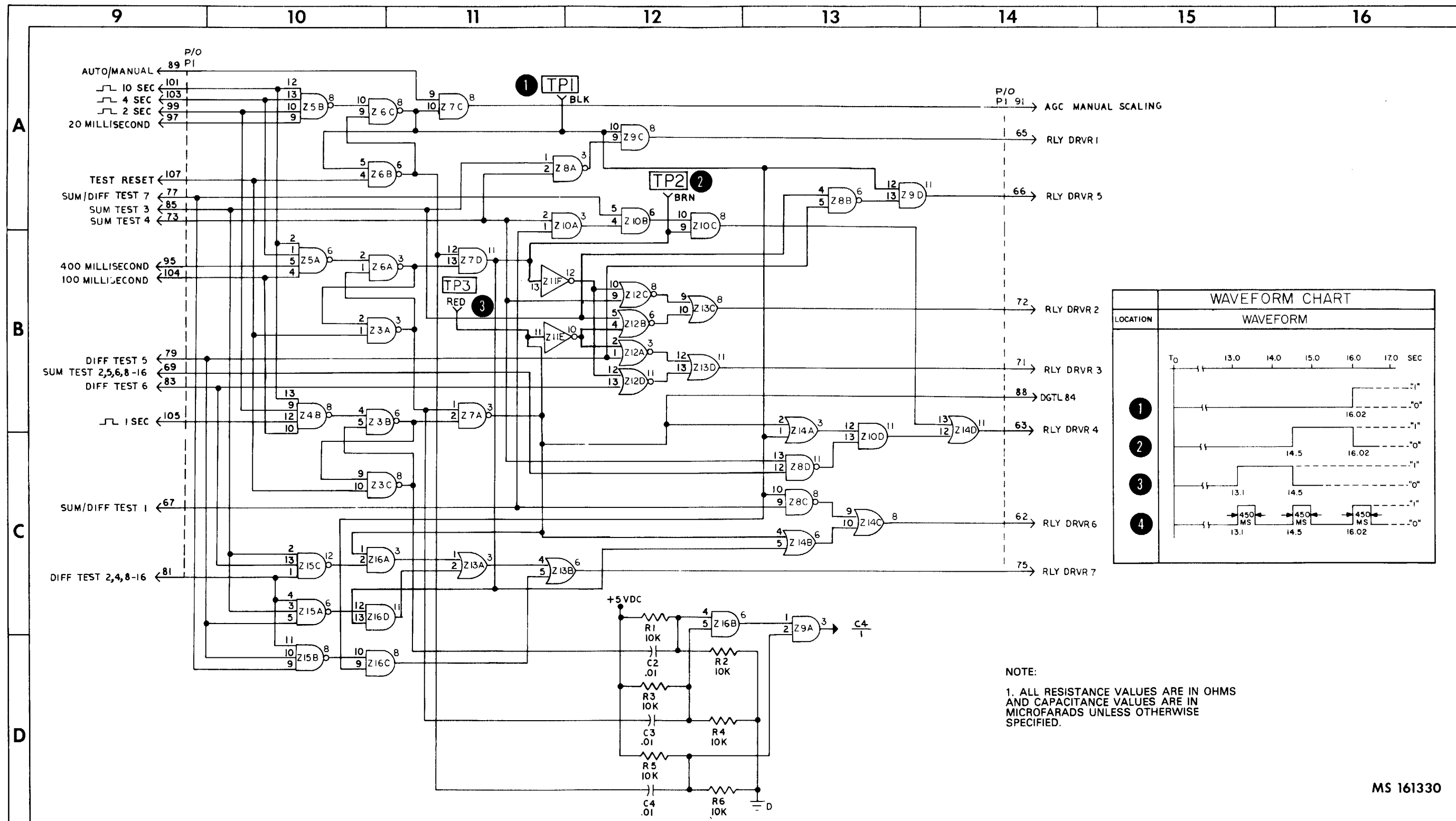
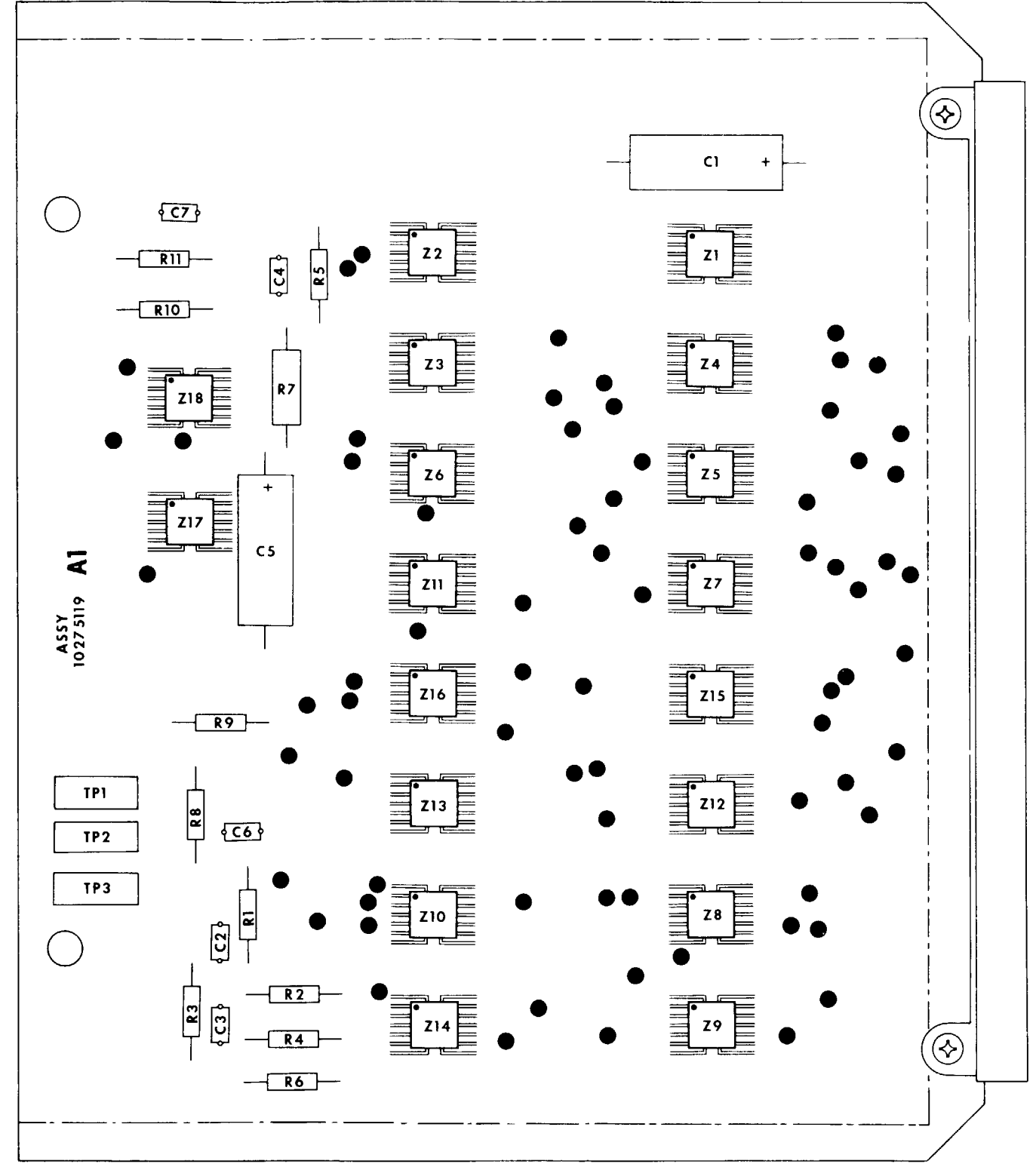


Figure 4-2 . DMS-D card A1 schematic diagram (sheet 2 of 3)



MS 161331

Figure 4-2. DMS-D card A1-schematic diagram (sheet 3 of 3)

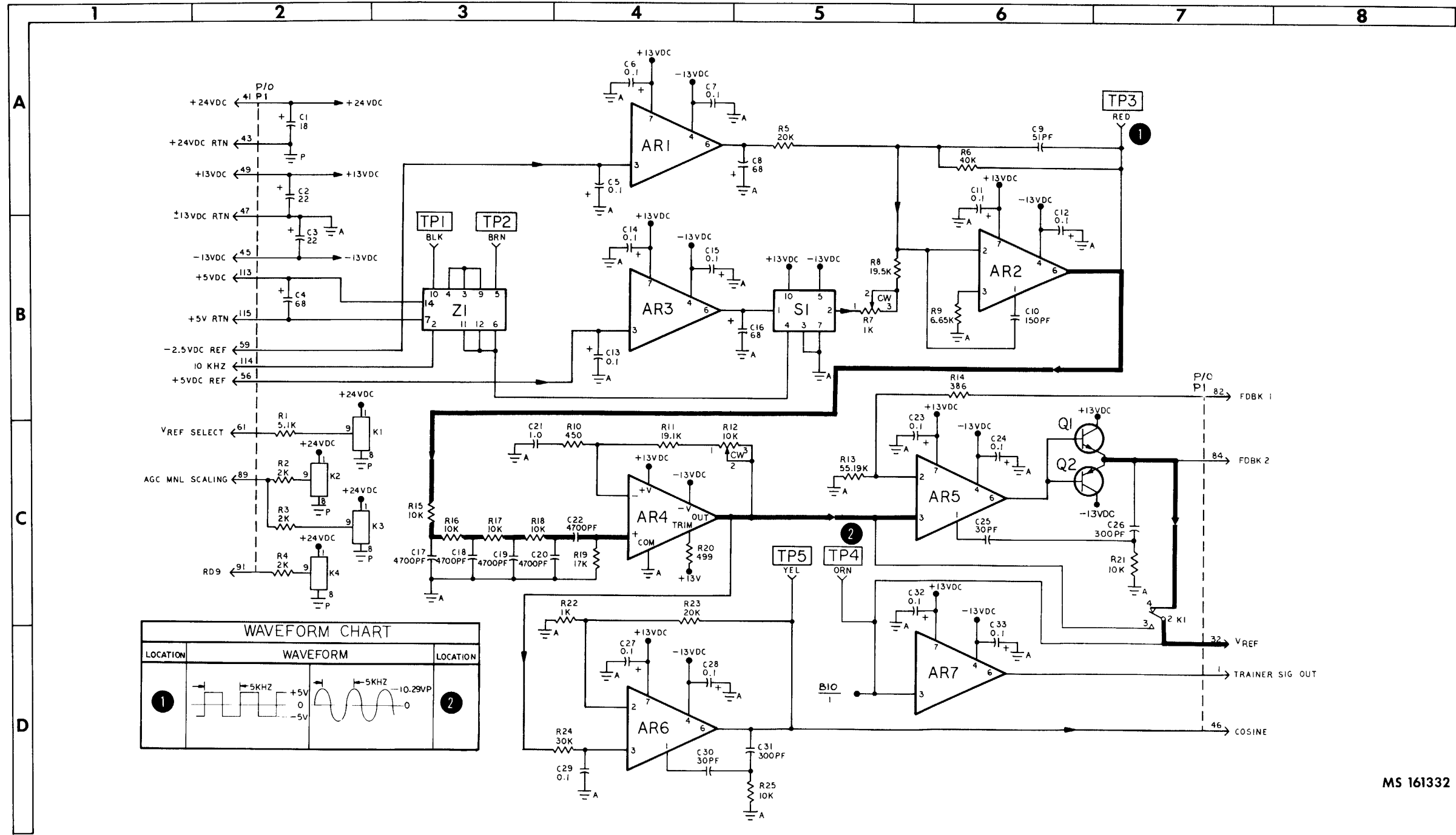


Figure 4-3. DMS-D card A2 (10275122)-
schematic diagram (sheet 1 of 3)

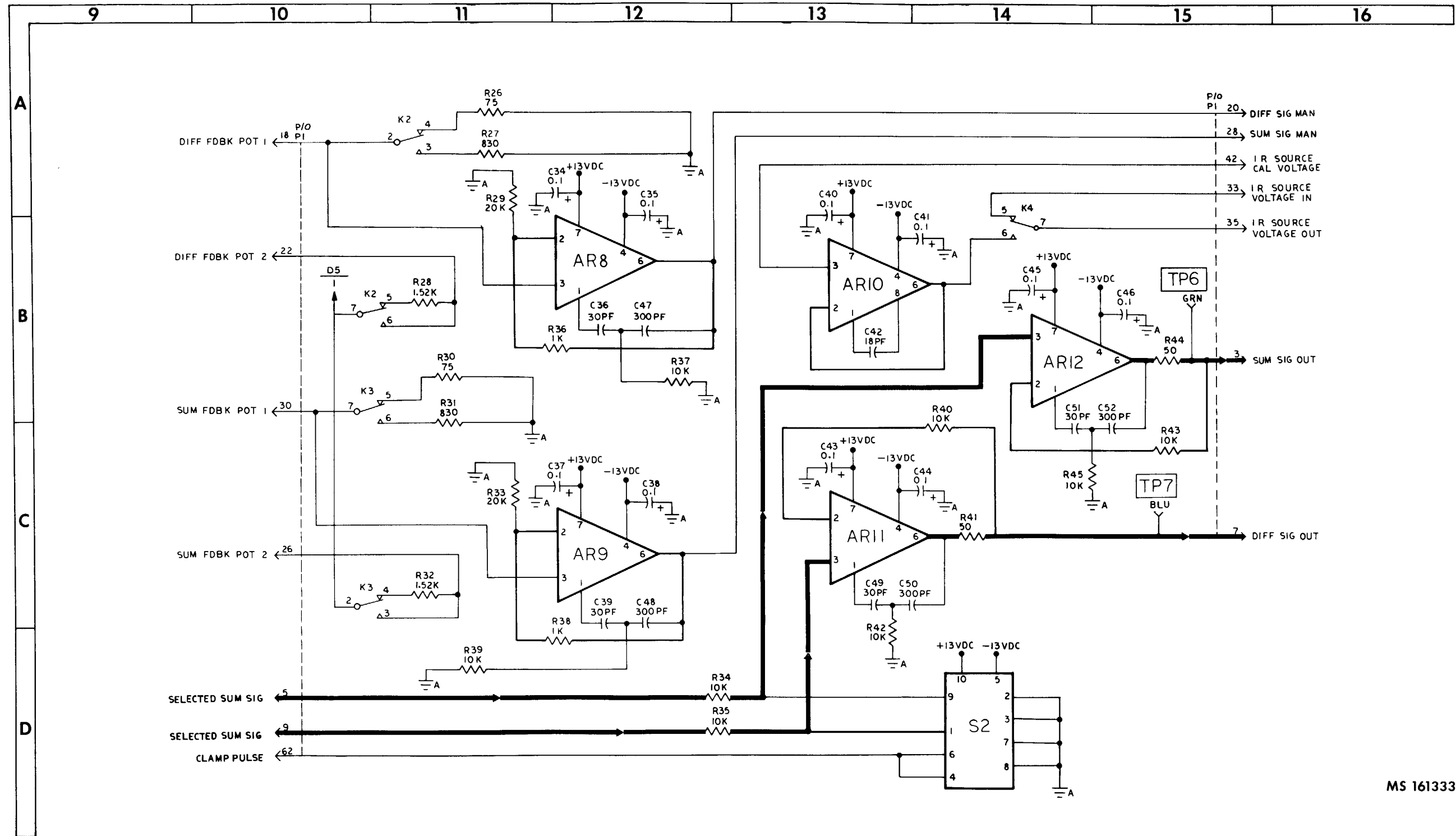
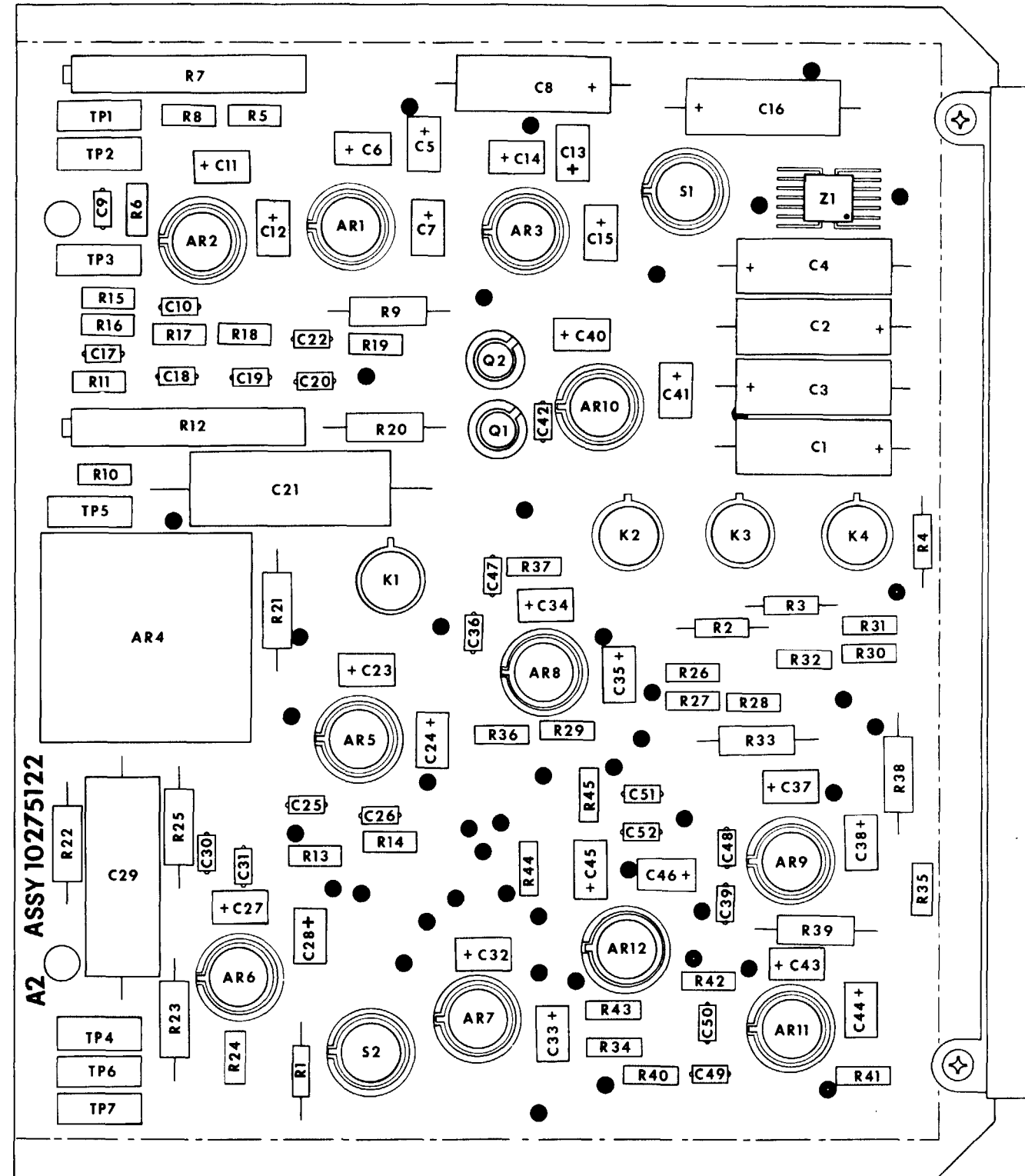


Figure 4-3. DMS-D card A2 (10275122)-
schematic diagram (sheet 2 of 3)



MS 161334

Figure 4-3. DMS-D card A2 - schematic diagram (sheet 3 of 3)

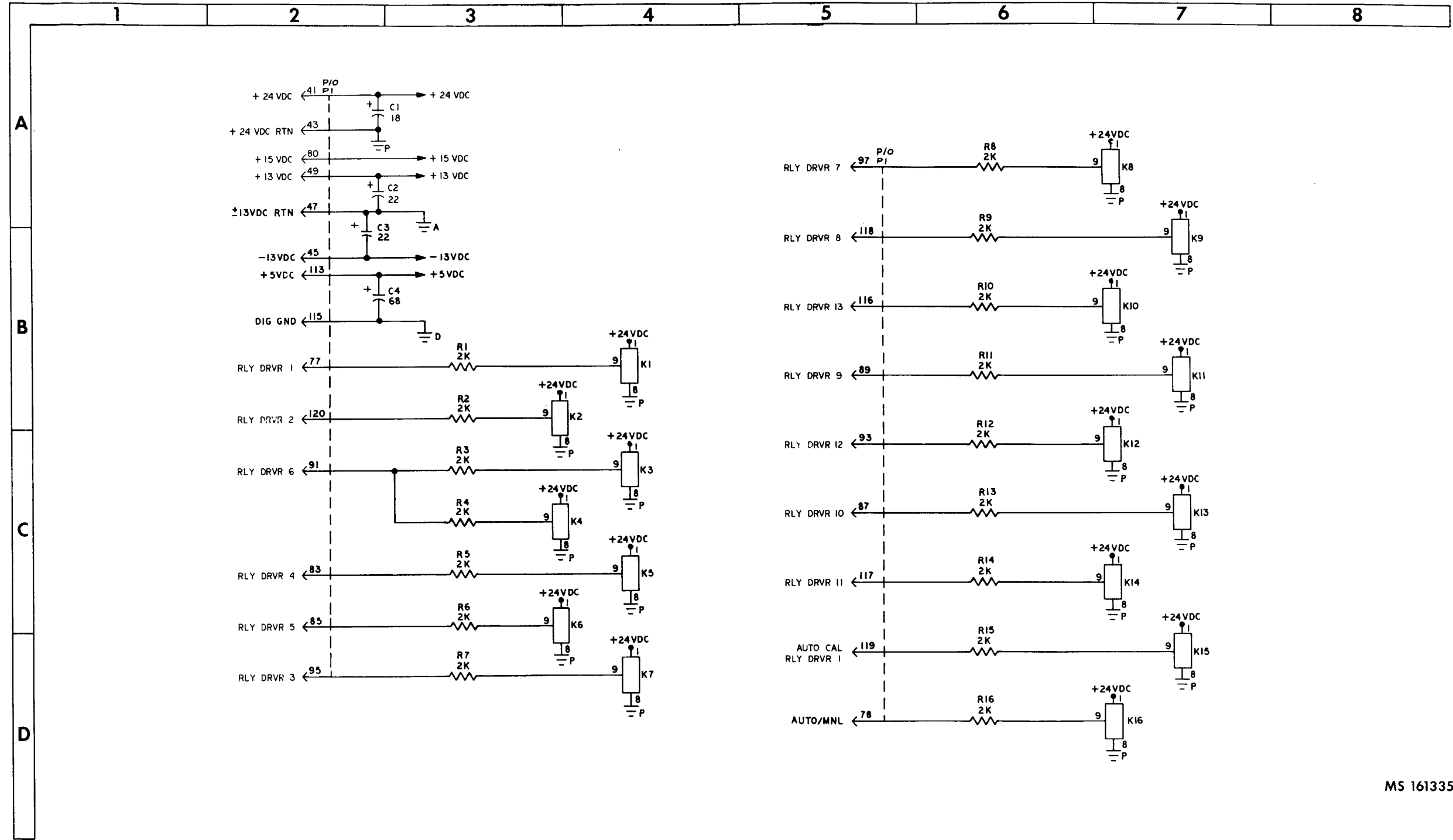


Figure 4-4. DMS-D card A3 (10275143)-
schematic diagram (sheet 1 of 4)

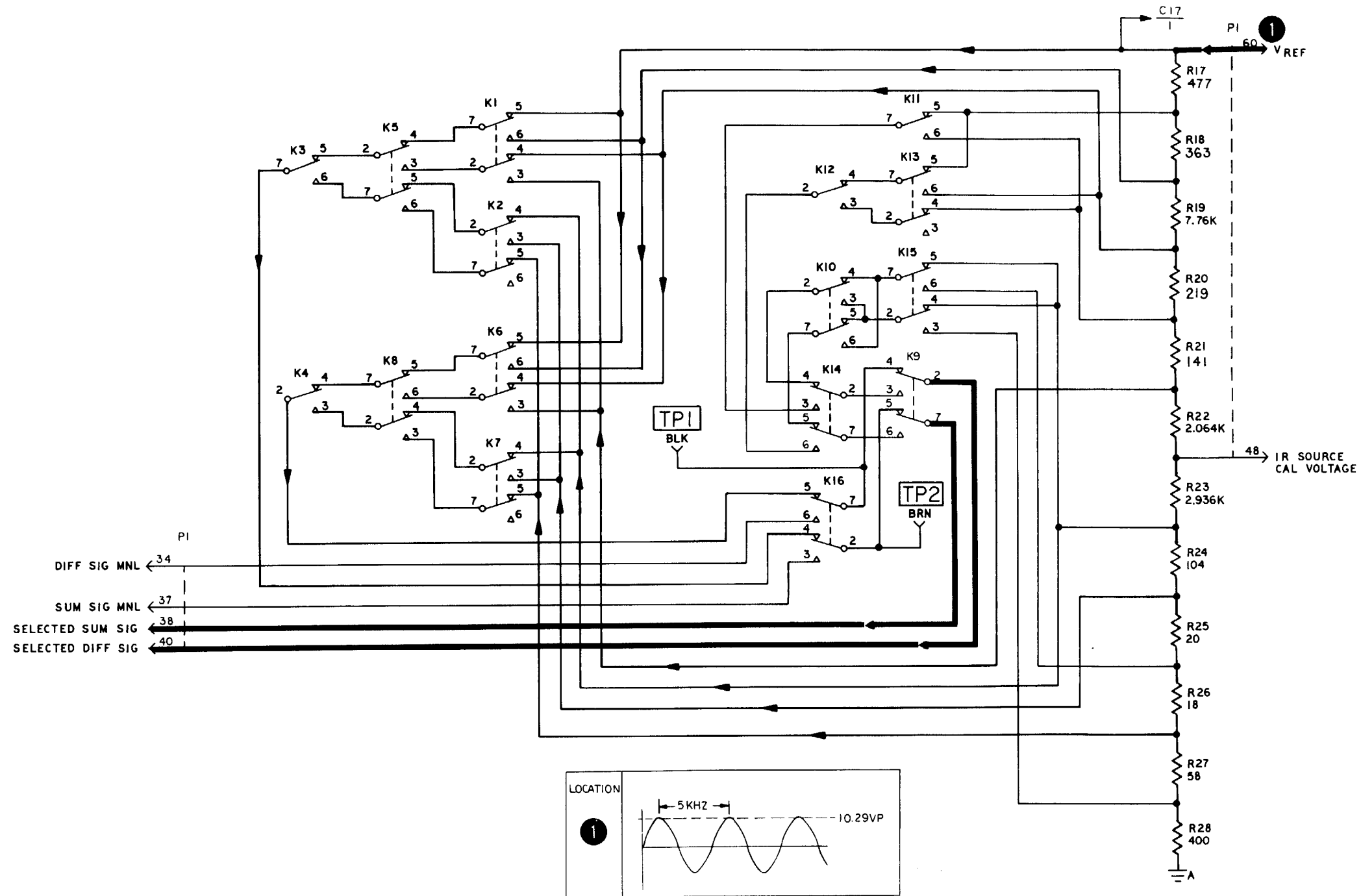


Figure 4-4. DMS-D card A3 (10275143)-
schematic diagram (sheet 2 of 4)

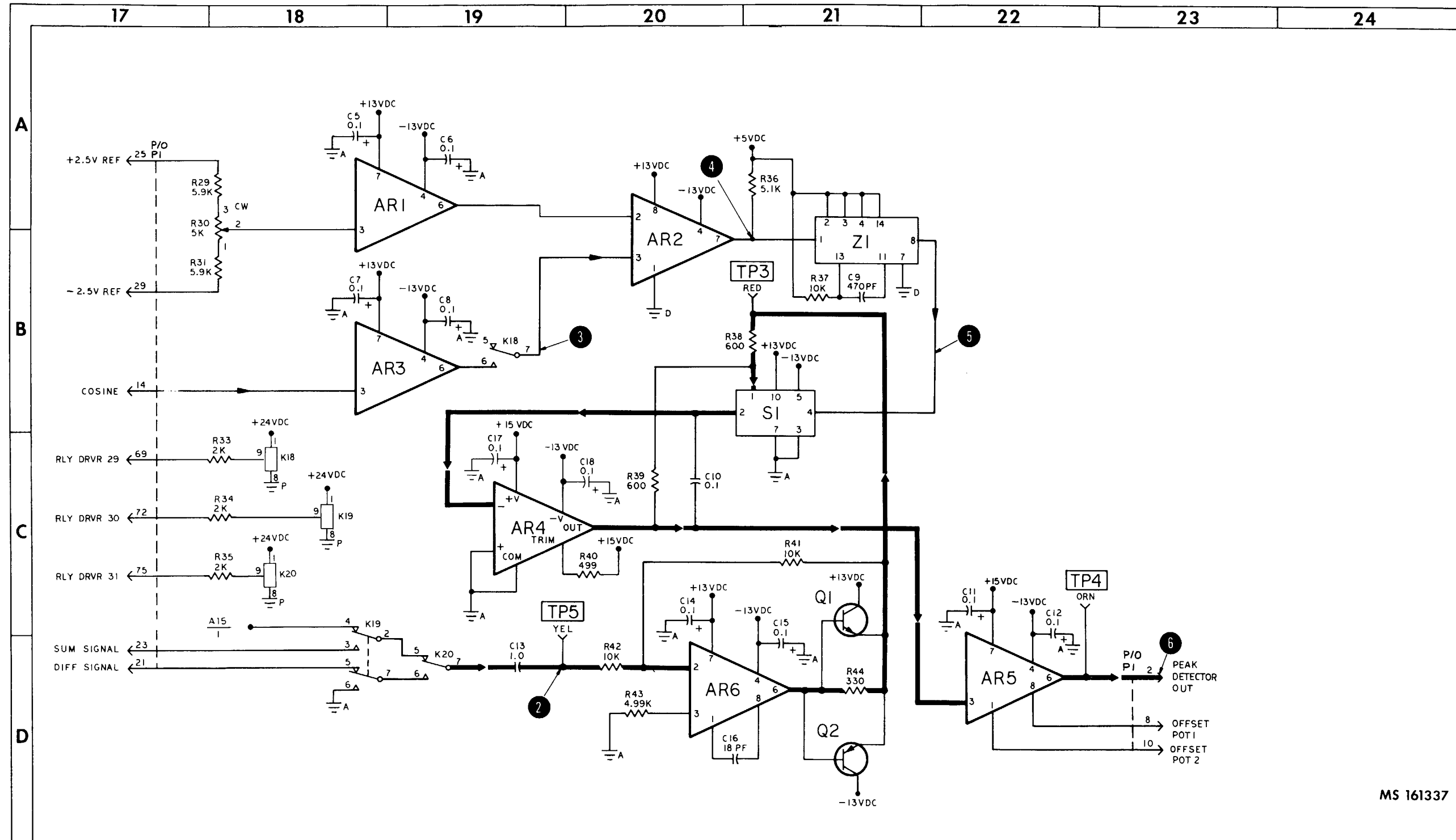
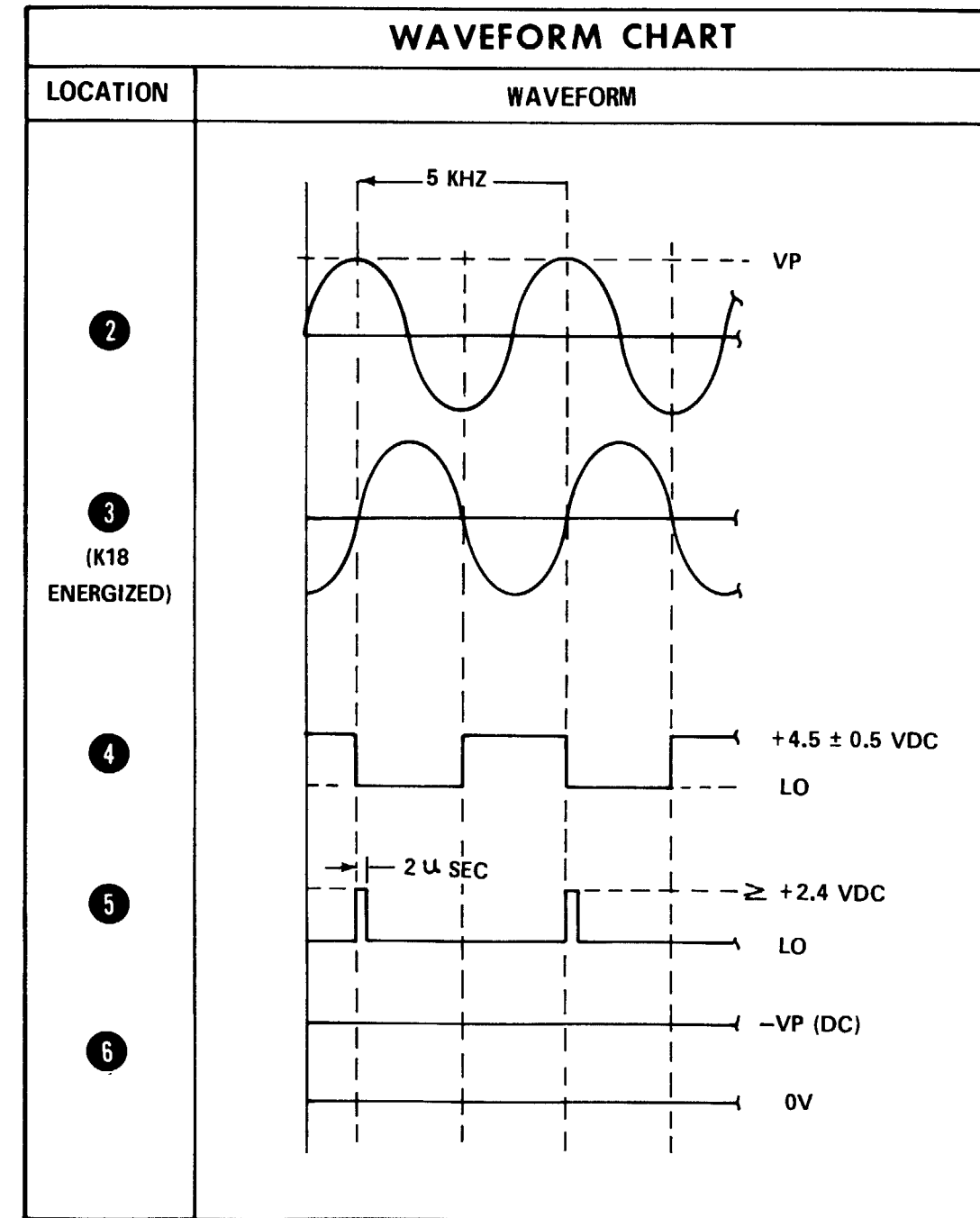
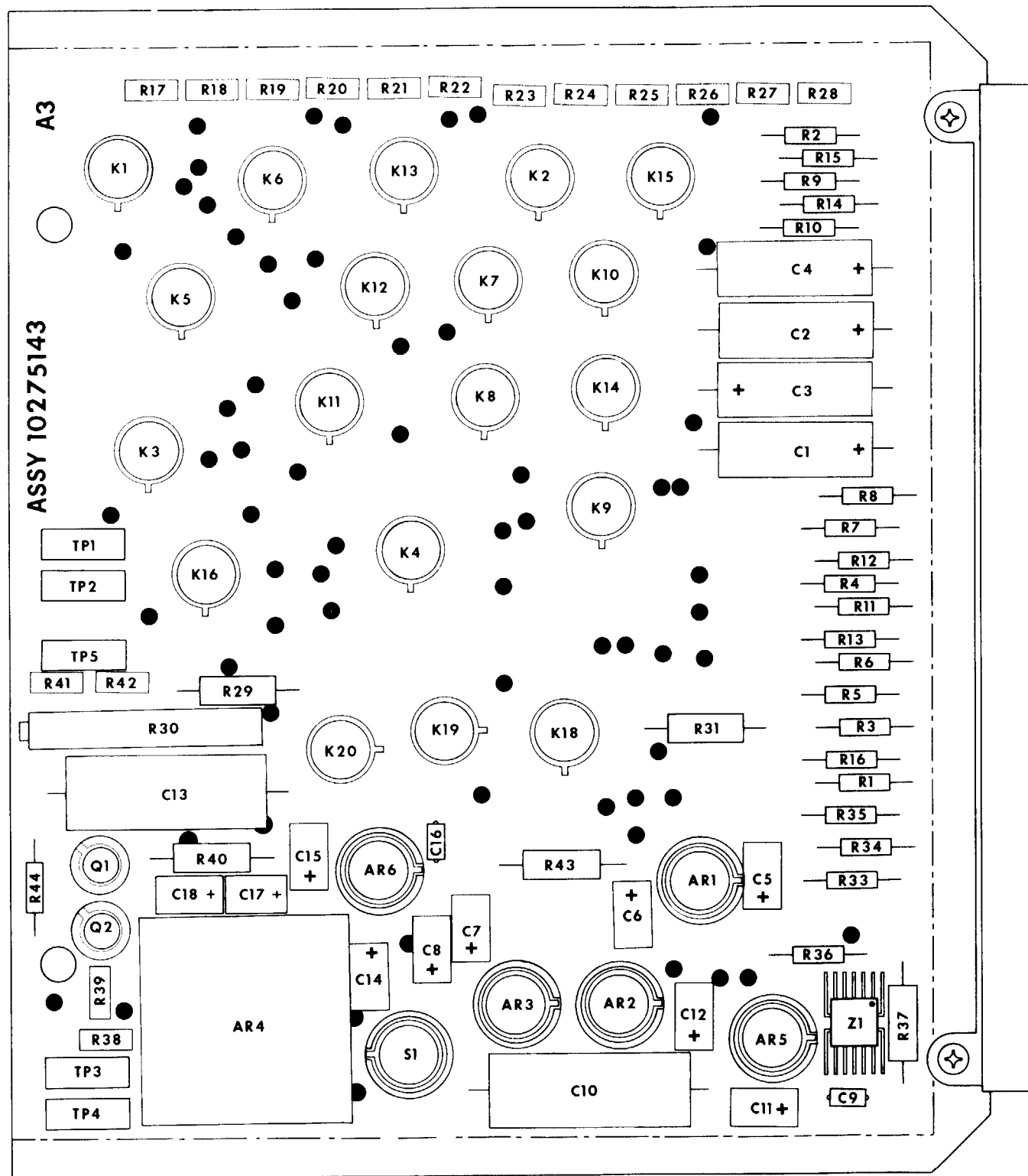


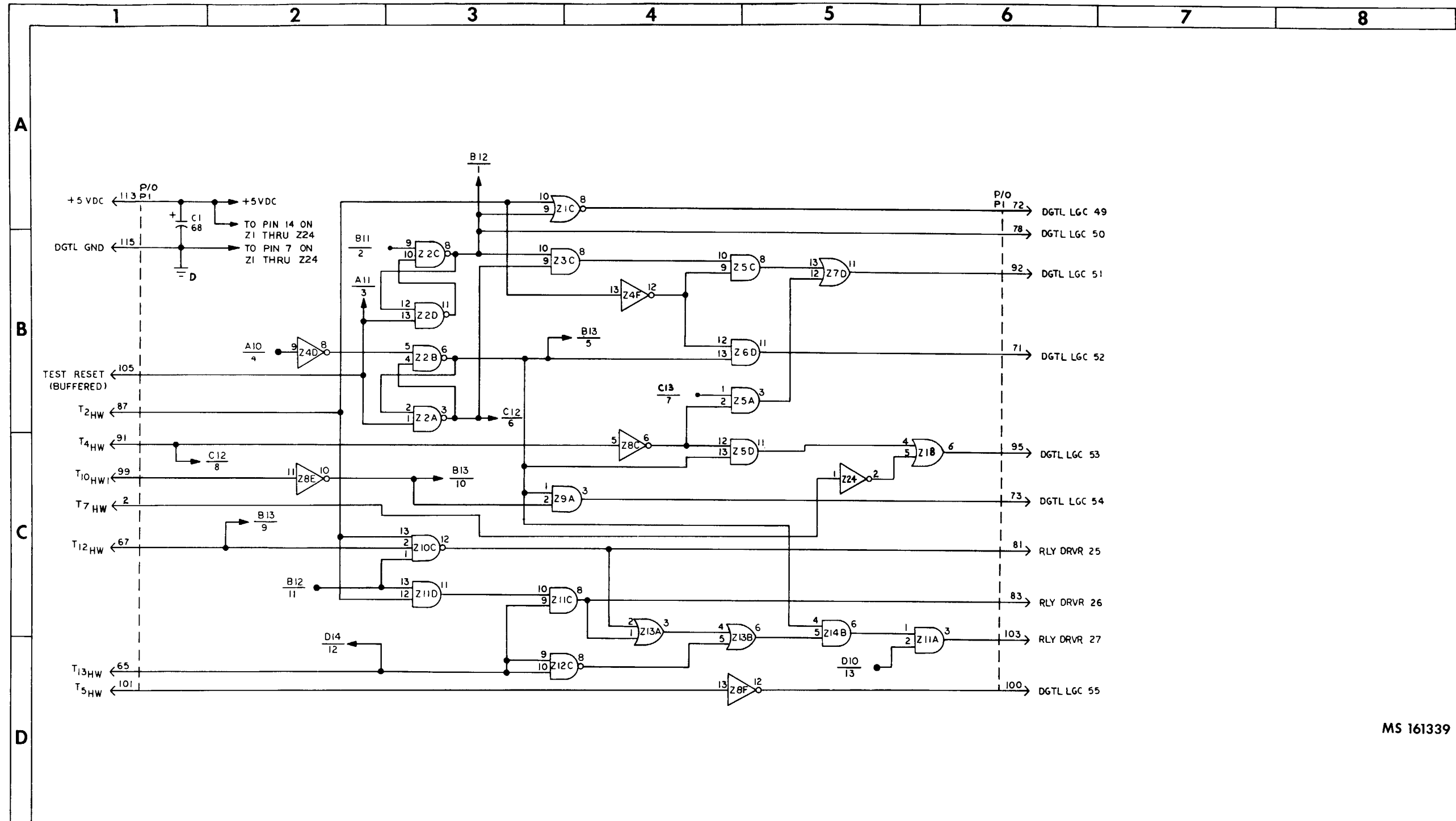
Figure 4-4. DMS-D card A3 (10275143)-
schematic diagram (sheet 3 of 4)



LO = ≤ +0.4 VDC

MS 161339

Figure 4-4. DMS-D card A3 - schematic diagram (sheet 4 of 4)



MS 161339

Figure 4-5. DMS-D A card A4 (10275125)-
schematic diagram (sheet 1 of 3)

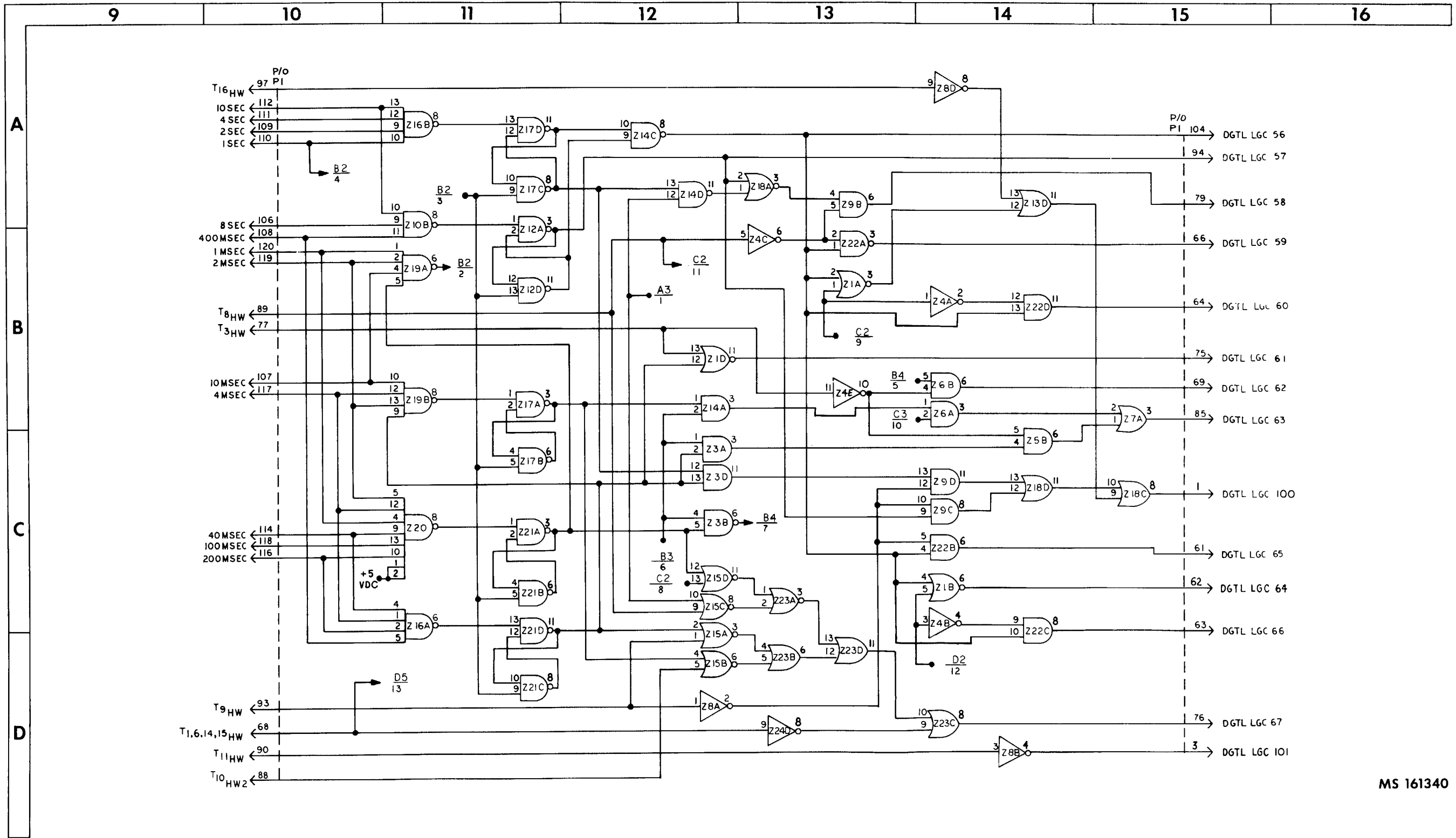
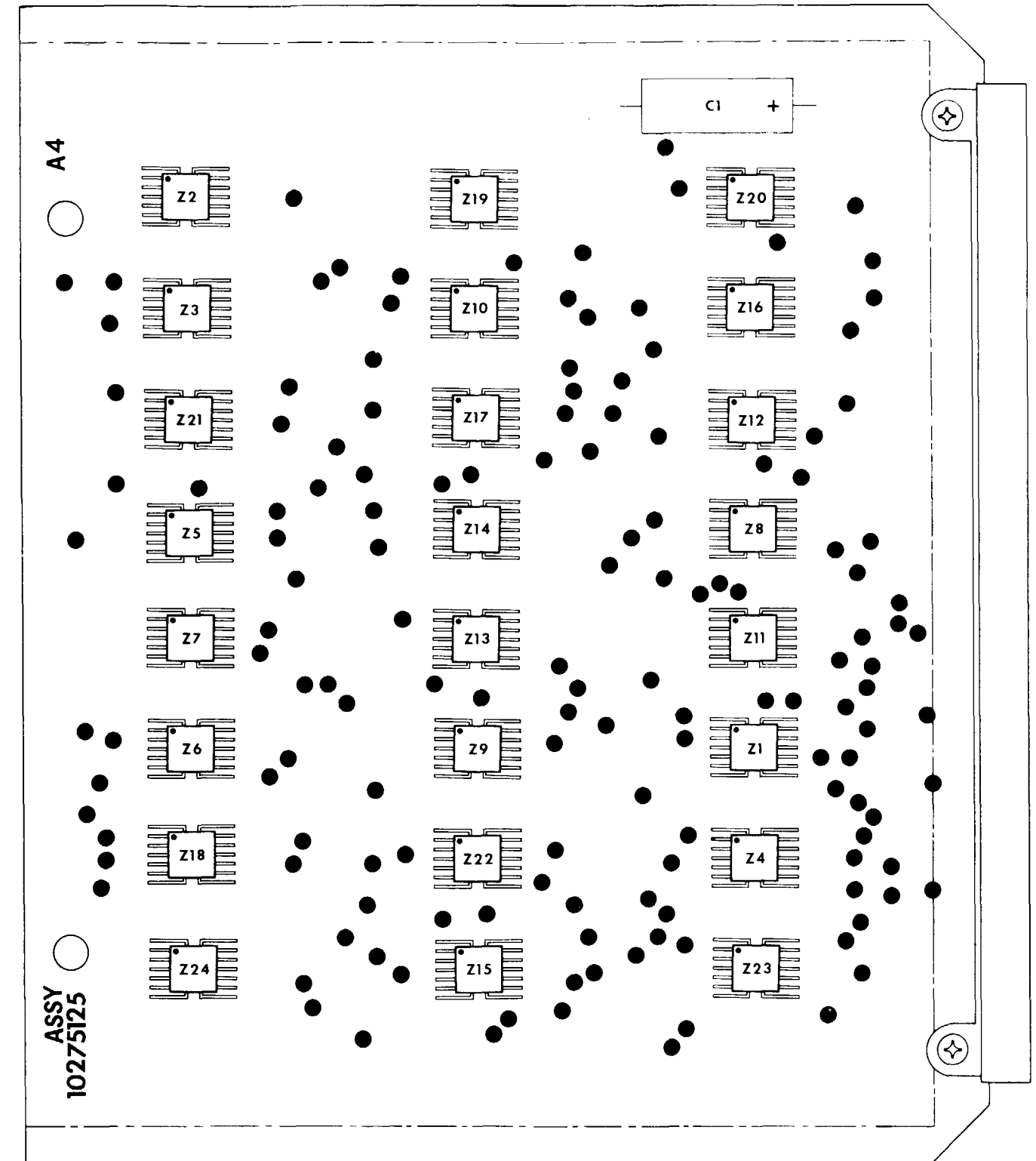
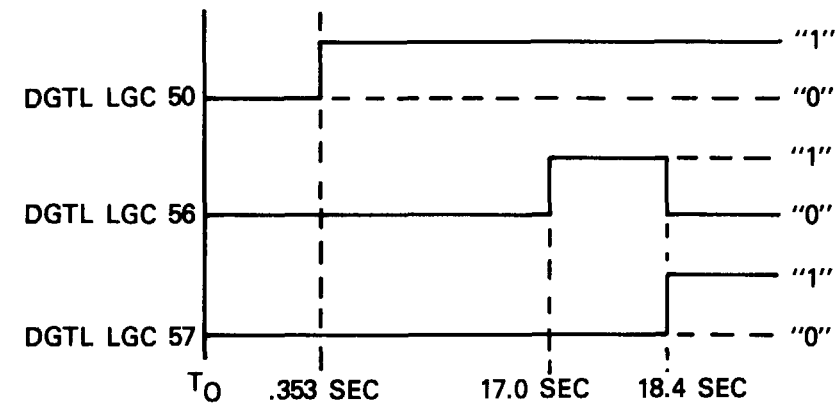
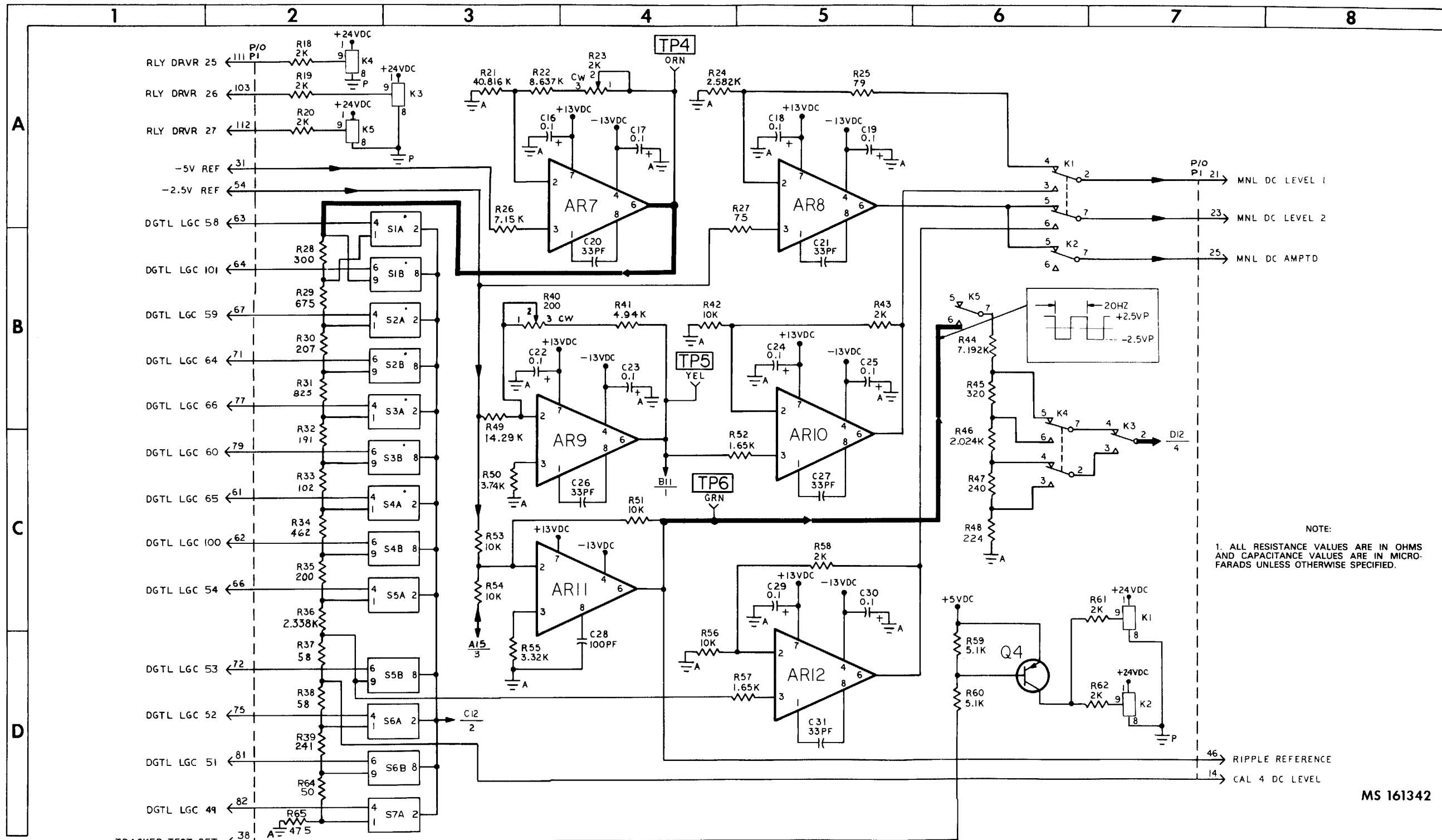


Figure 4-5. DMS-D A card A4 (10275125)-
schematic diagram (sheet 2 of 3)



161341

Figure 4-5. DMS-D card A4-schematic diagram (sheet 3 of 3)



TRACKER TEST SET
BORESITE INHIBIT CMD
Figure 4-6. DMS-D card A5
schematic diagram (sheet 1 of 3)

Figure 4-6. DMS-D card A5
schematic diagram (sheet 1 of 3)

MS 161342

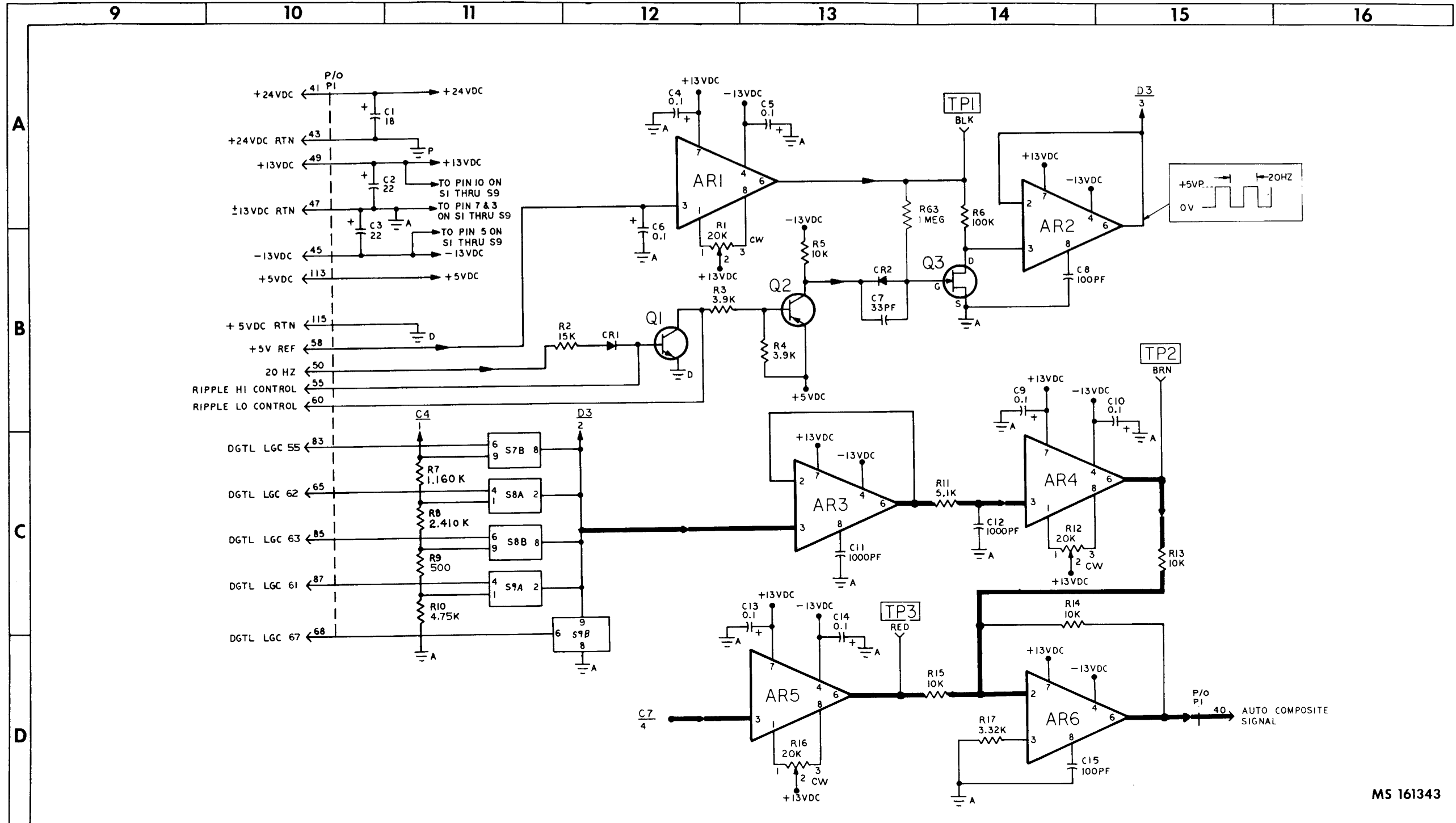
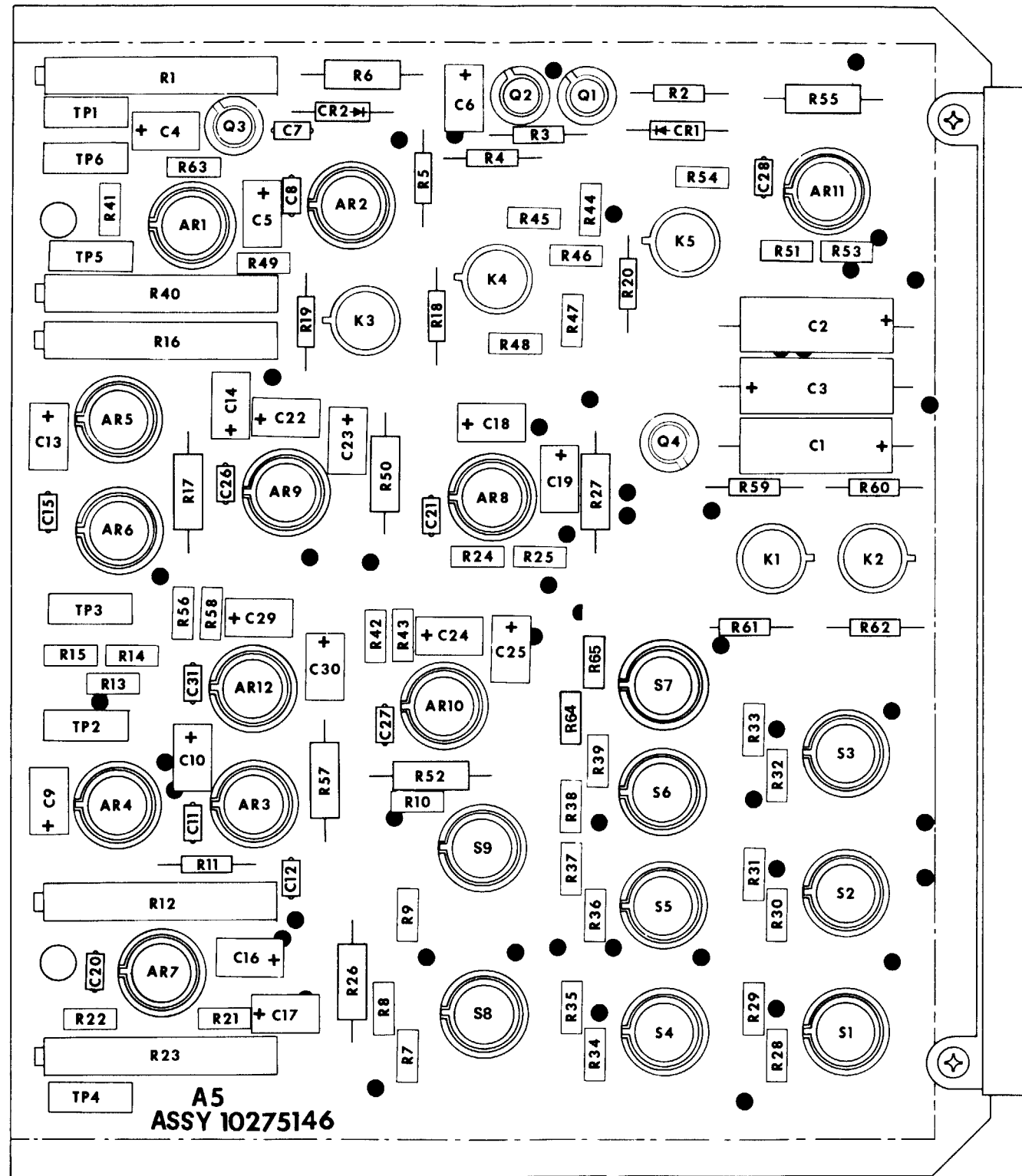
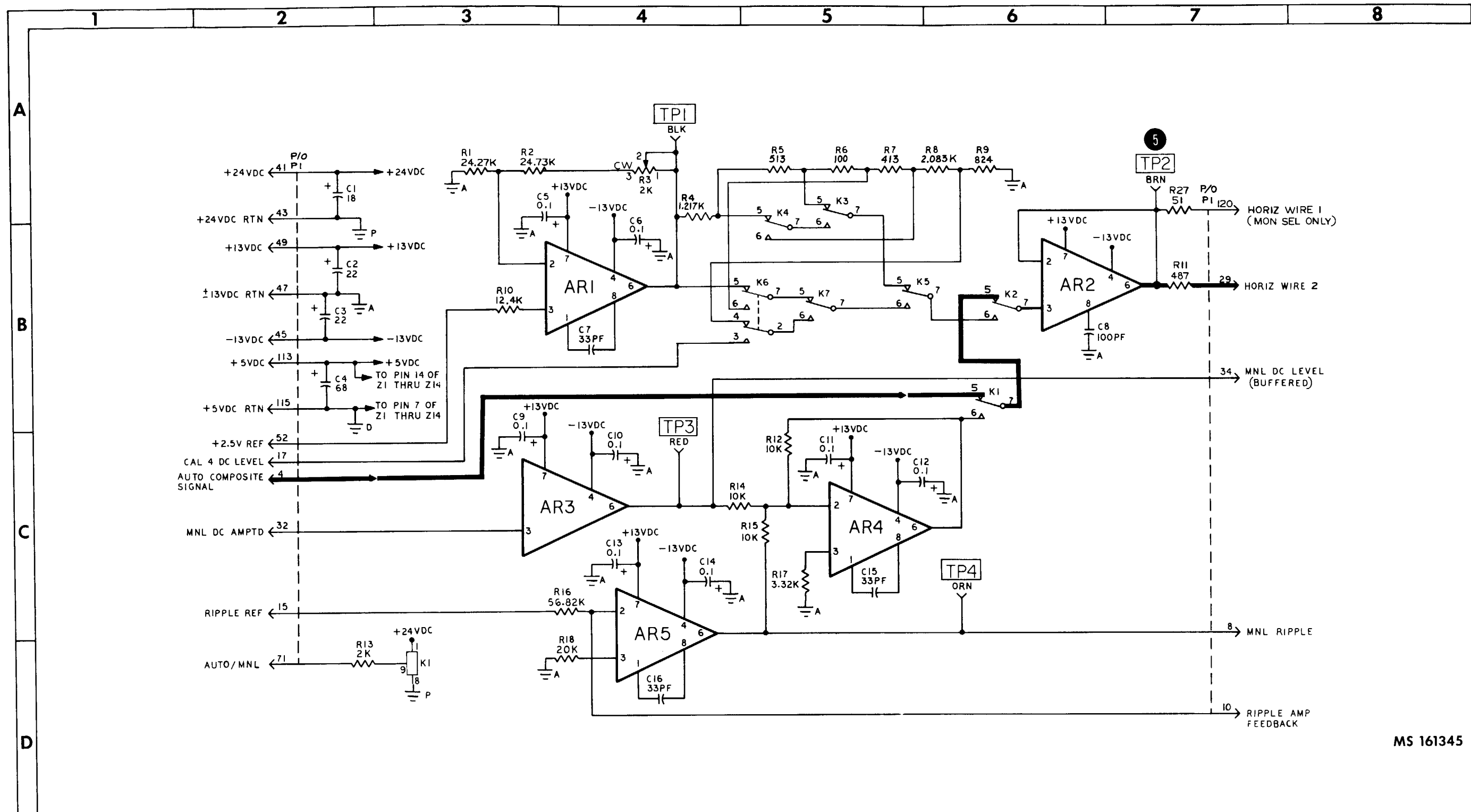


Figure 4-6. DMS-D card A5-
schematic diagram (sheet 2 of 3)



MS 161344

Figure 4-6. DMS-D card A5 schematic diagram (sheet 3 of 3)



MS 161345

Figure 4-7. DMS-D card A6 - schematic diagram (sheet 1 of 4)

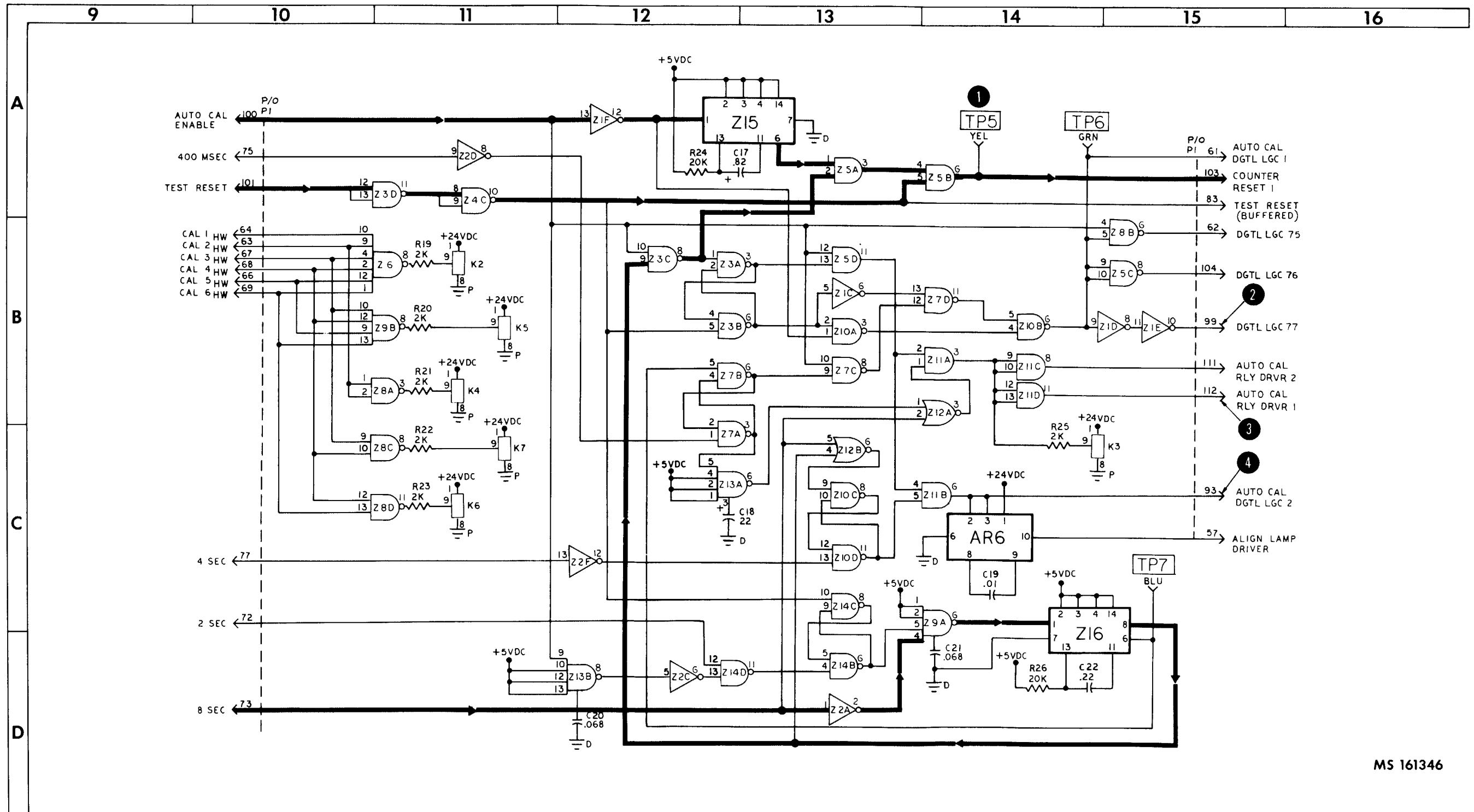
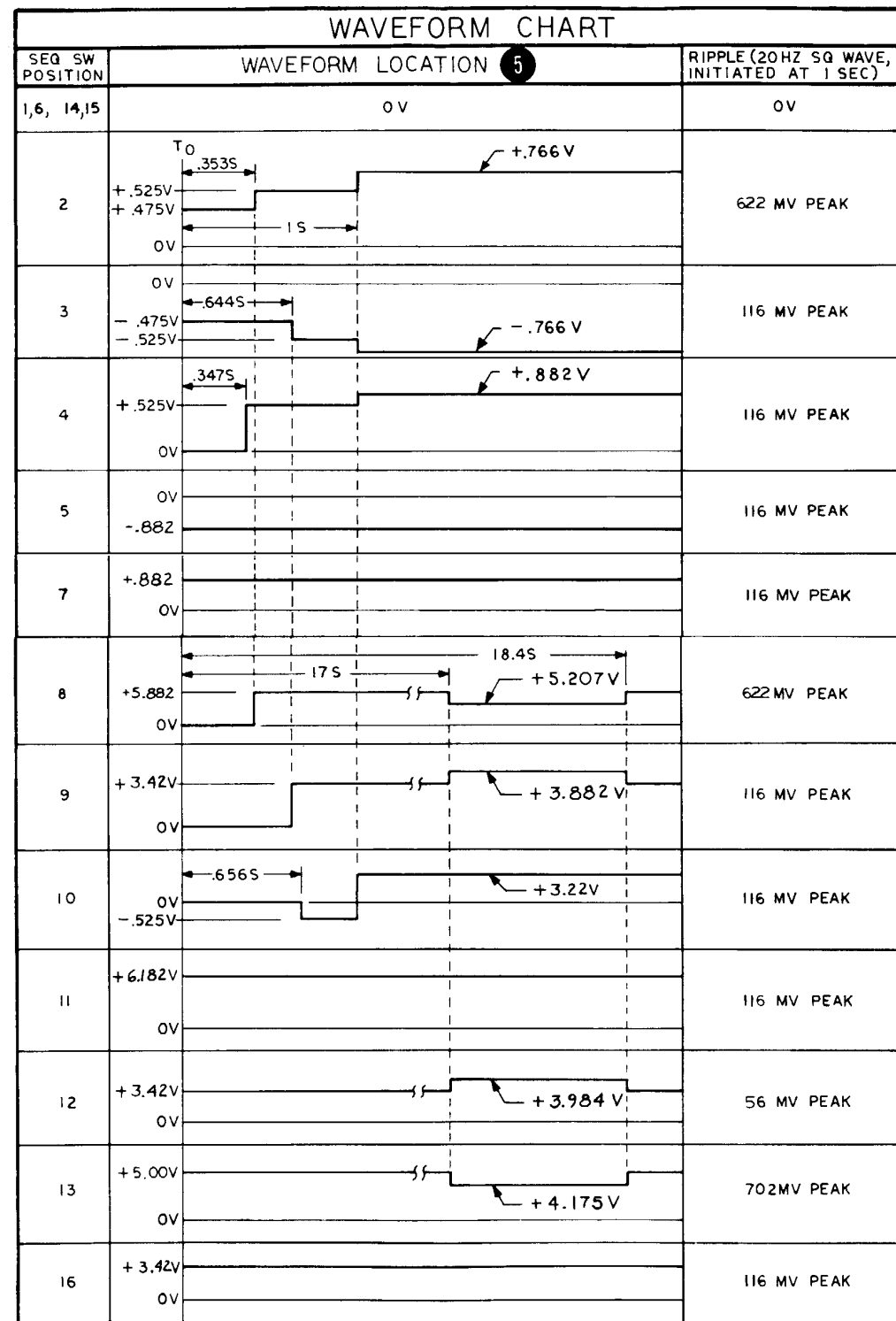
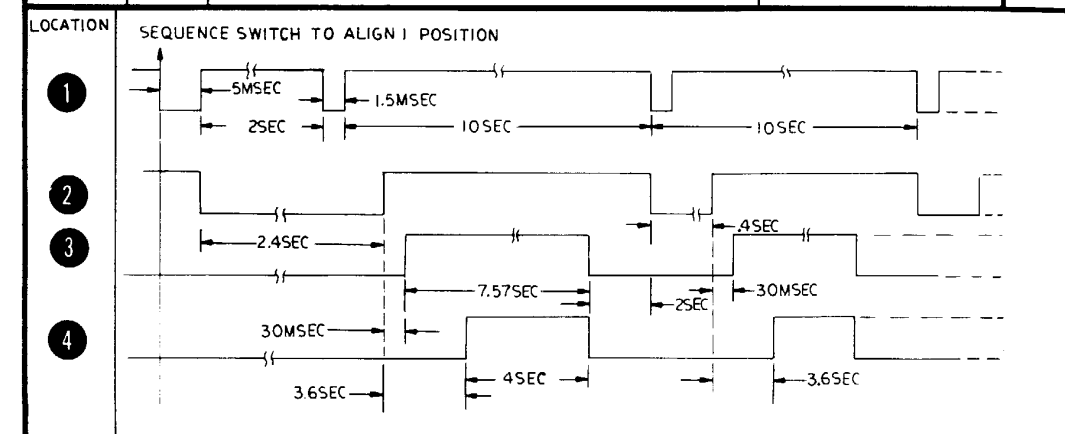
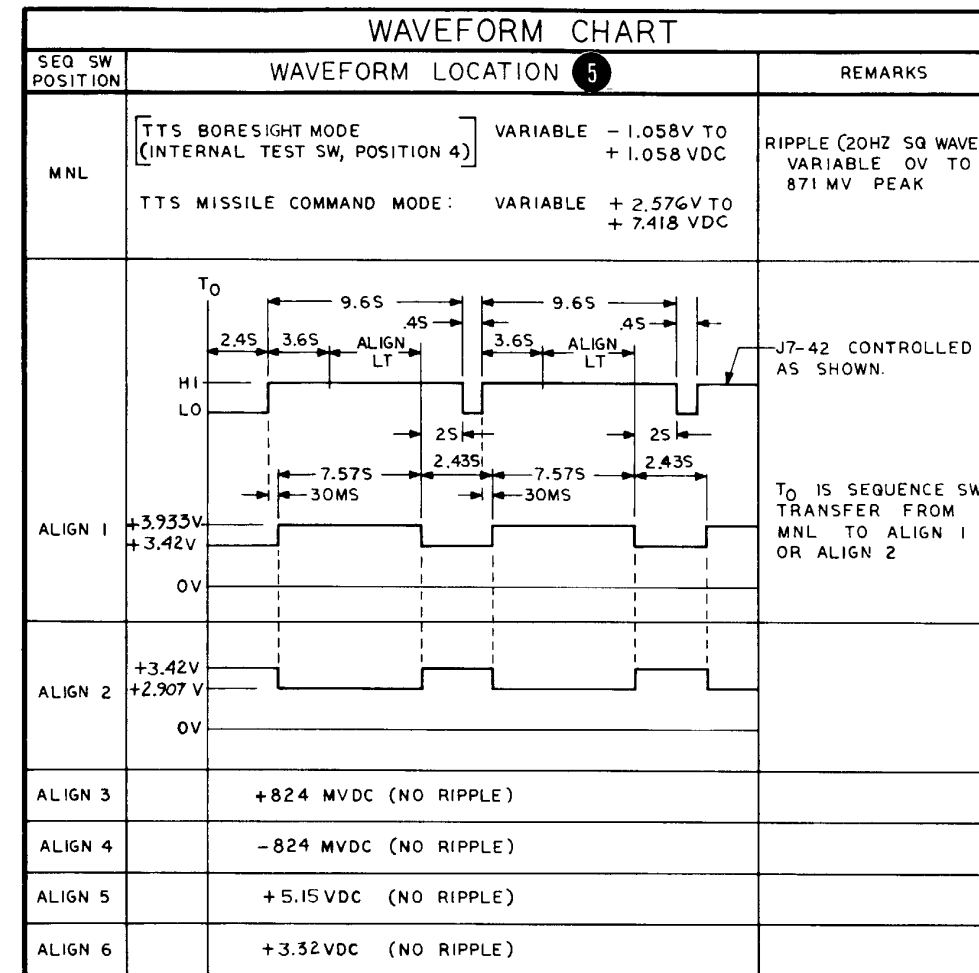


Figure 4-7. DMS-D card A6-
schematic diagram (sheet 2 of 4)

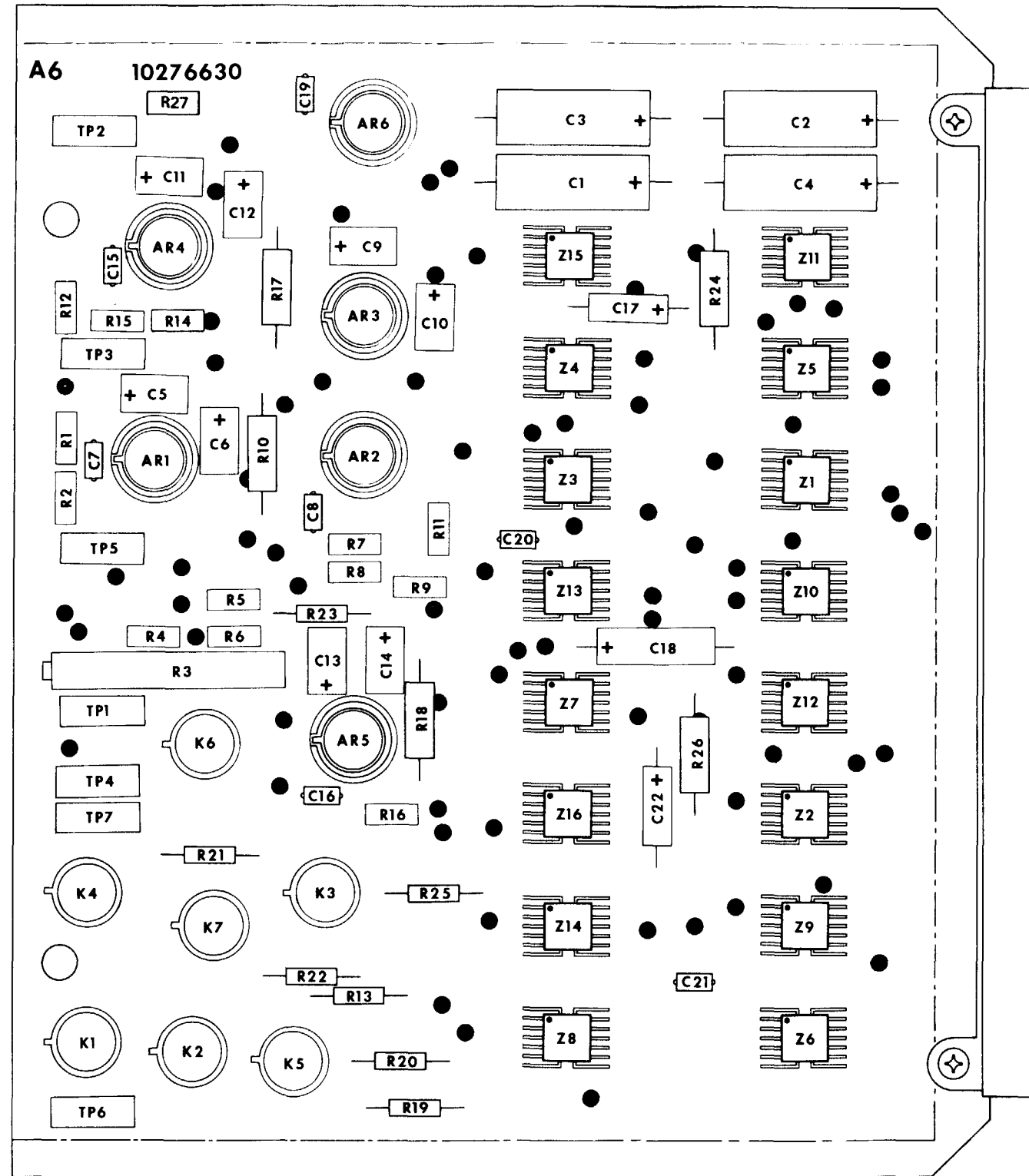


HI = $\geq +24$ VDC LO = $\leq +0.4$ VDC



MS161347

Figure 4-7. DMS-D card A6-schematic diagram (sheet 3 of 4)



MS161348

Figure 4-7. DMS-D card A6-
schematic diagram (sheet 4 of 4)

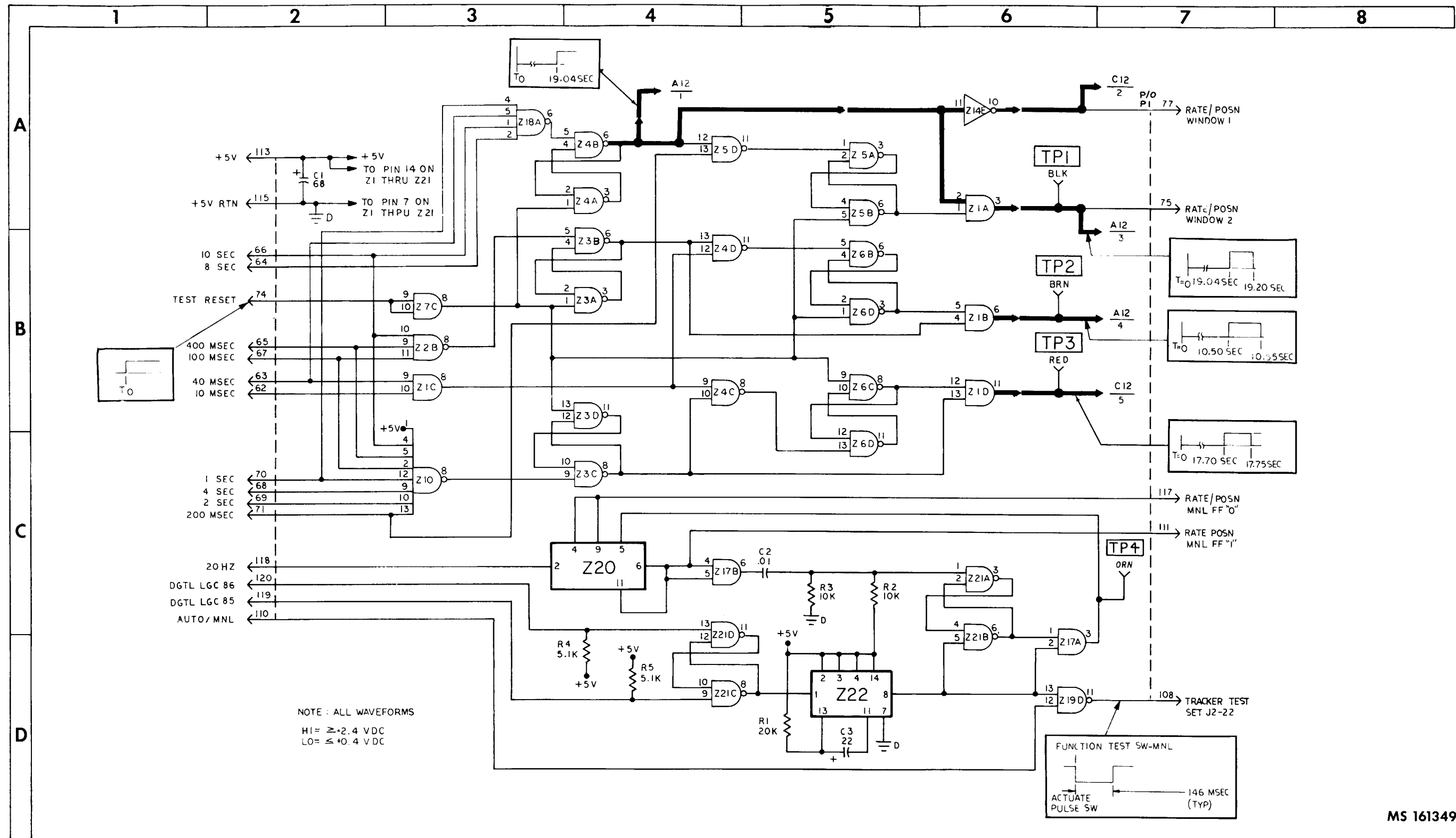


Figure 4-8. DMS-D card A7 (10275134)-
 schematic diagram (sheet 1 of 3)

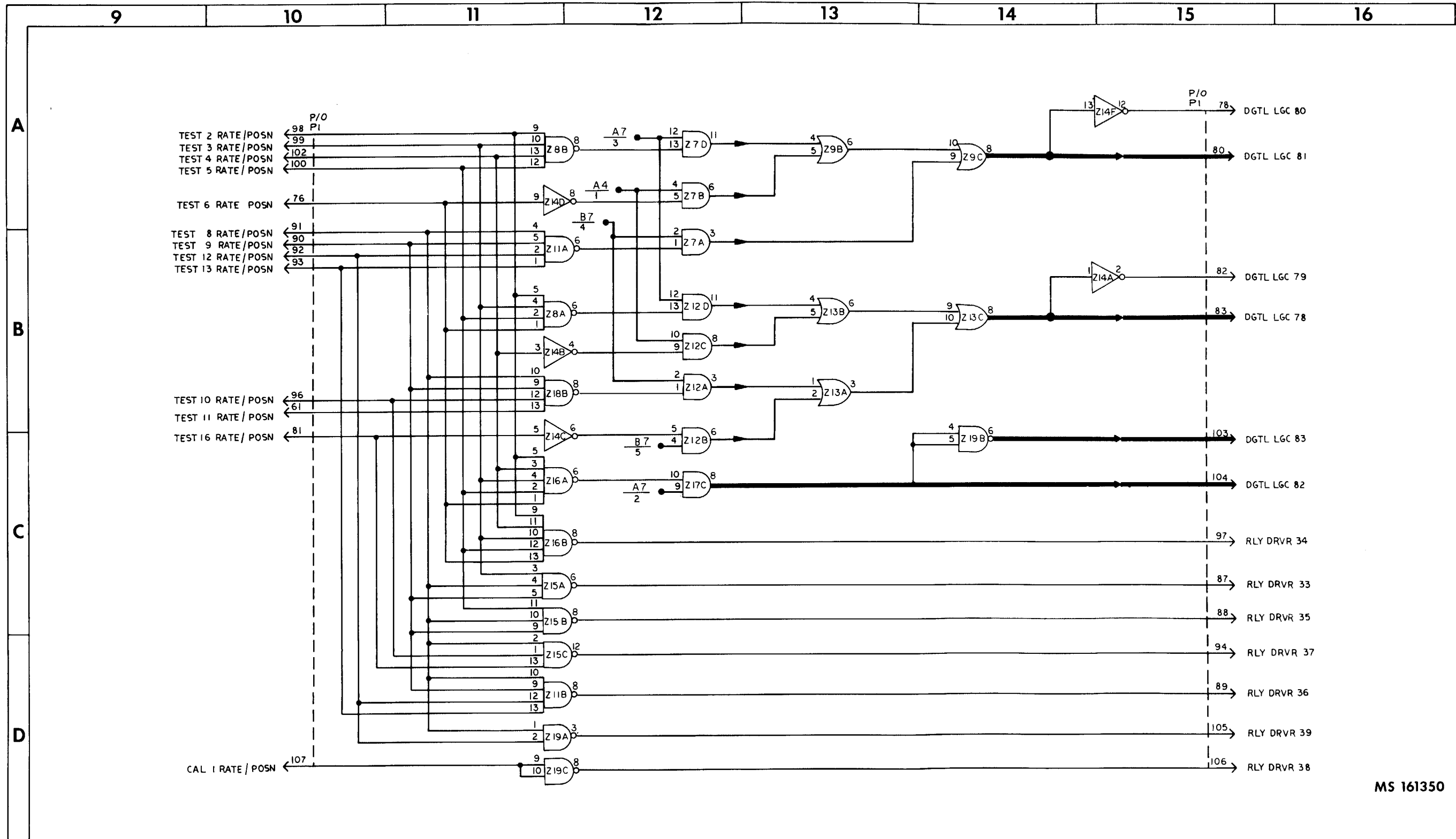
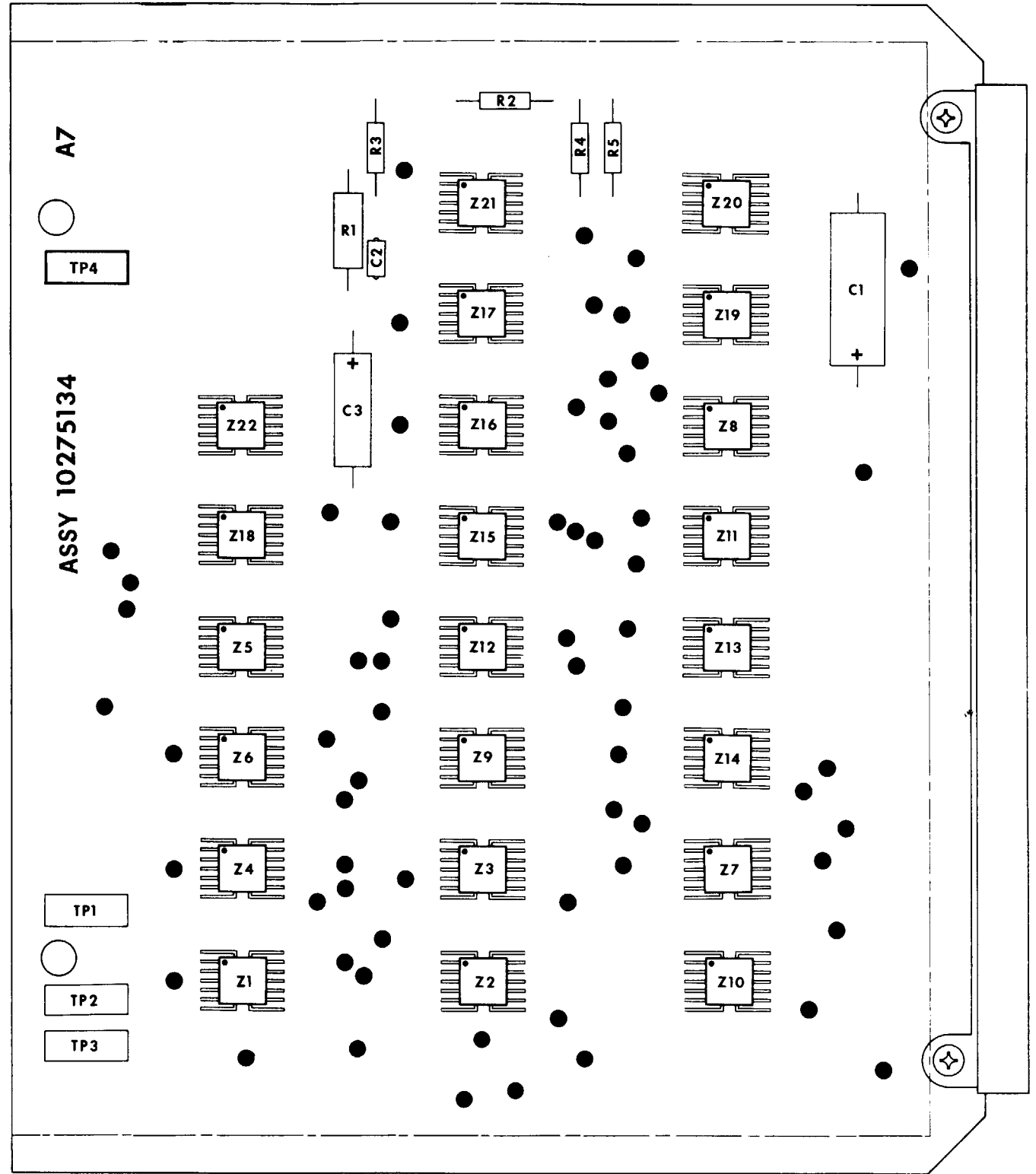


Figure 4-8. DMS-D card A7 (10275134)-
schematic diagram (sheet 2 of 3)



MS 161351

Figure 4-8. DMS-D card A7 (10275134)-
schematic diagram (sheet 3 of 3)

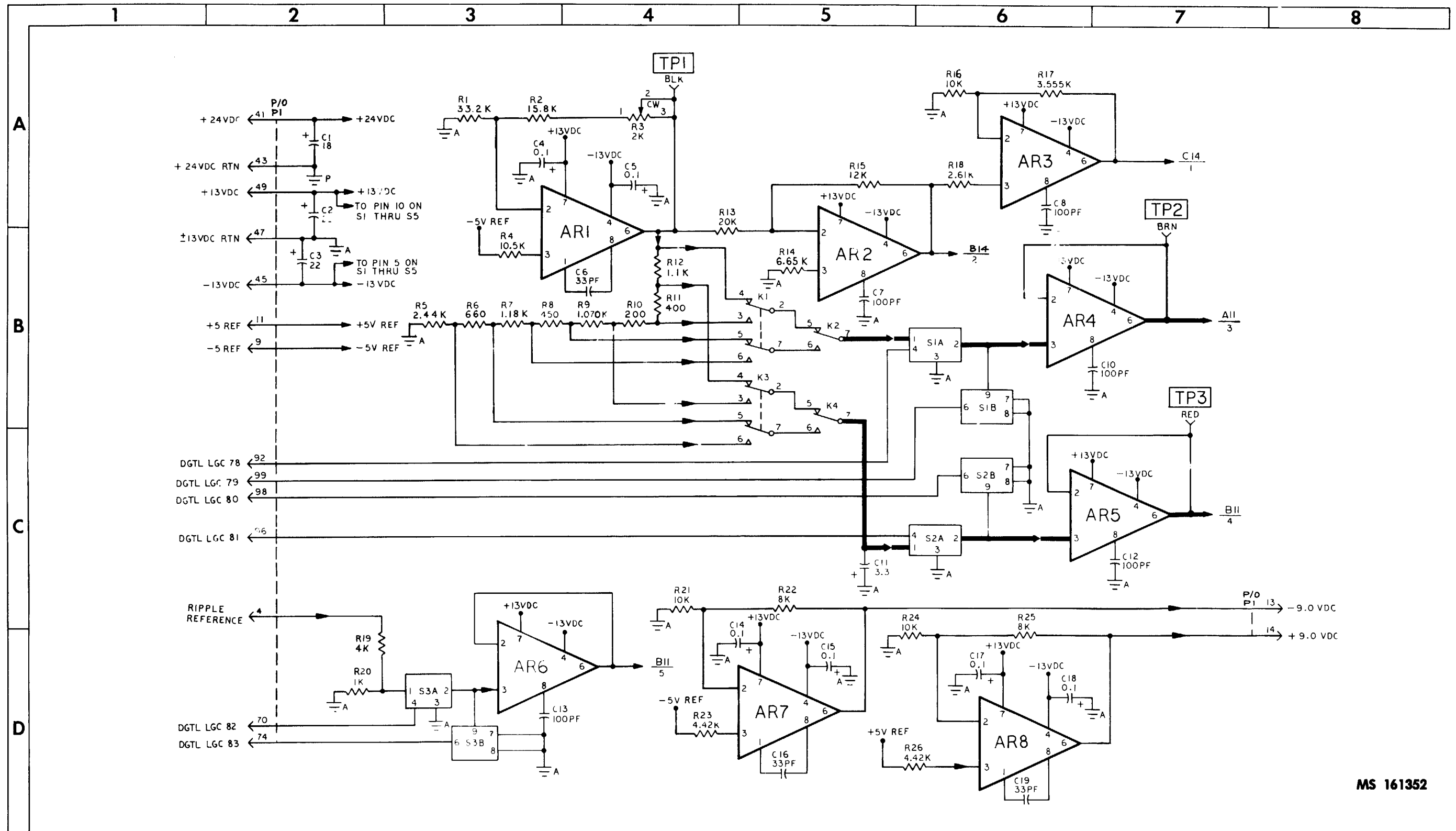


Figure 4-9. DMS-D card A8 schematic diagram (sheet 1 of 4)

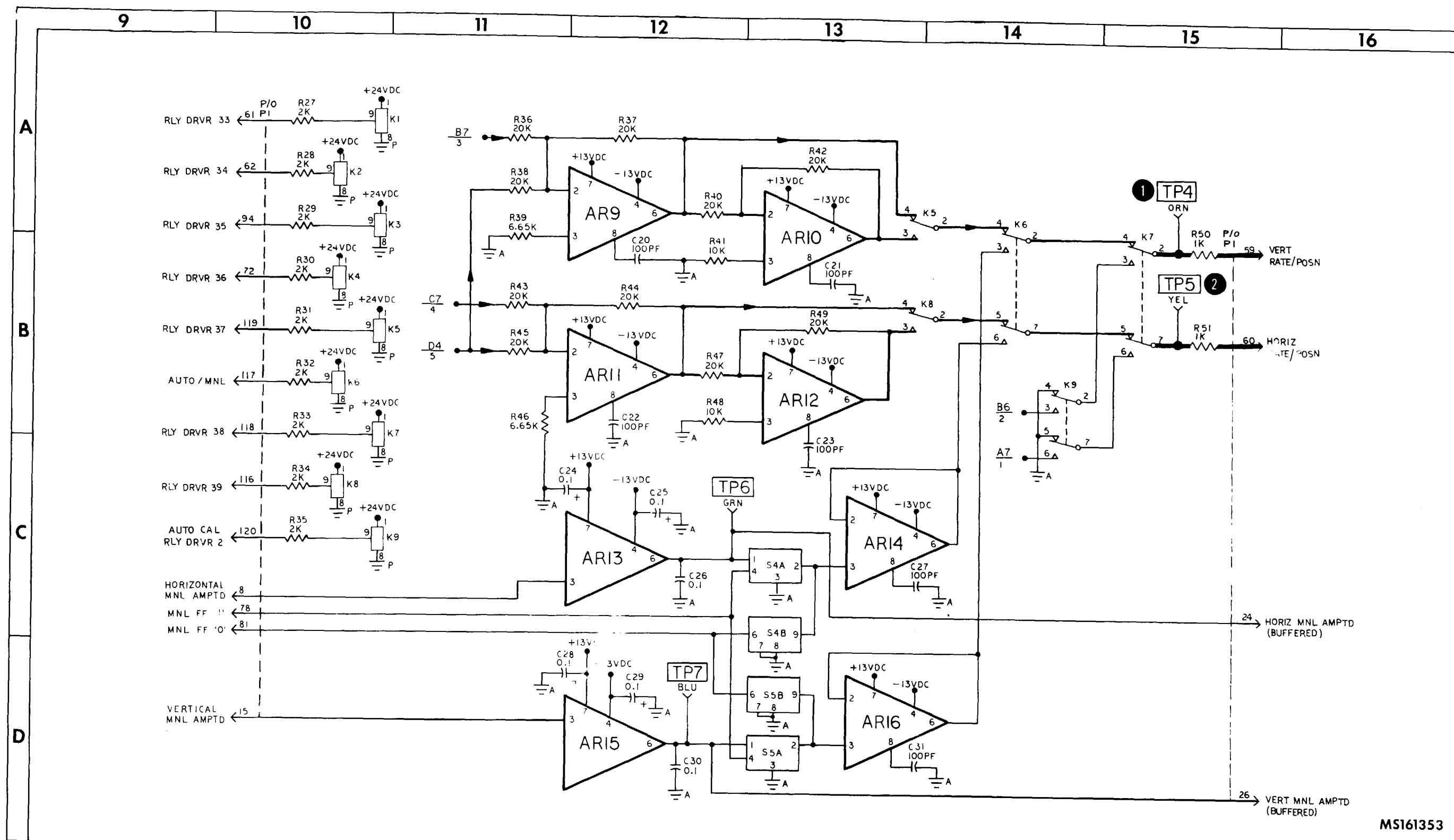
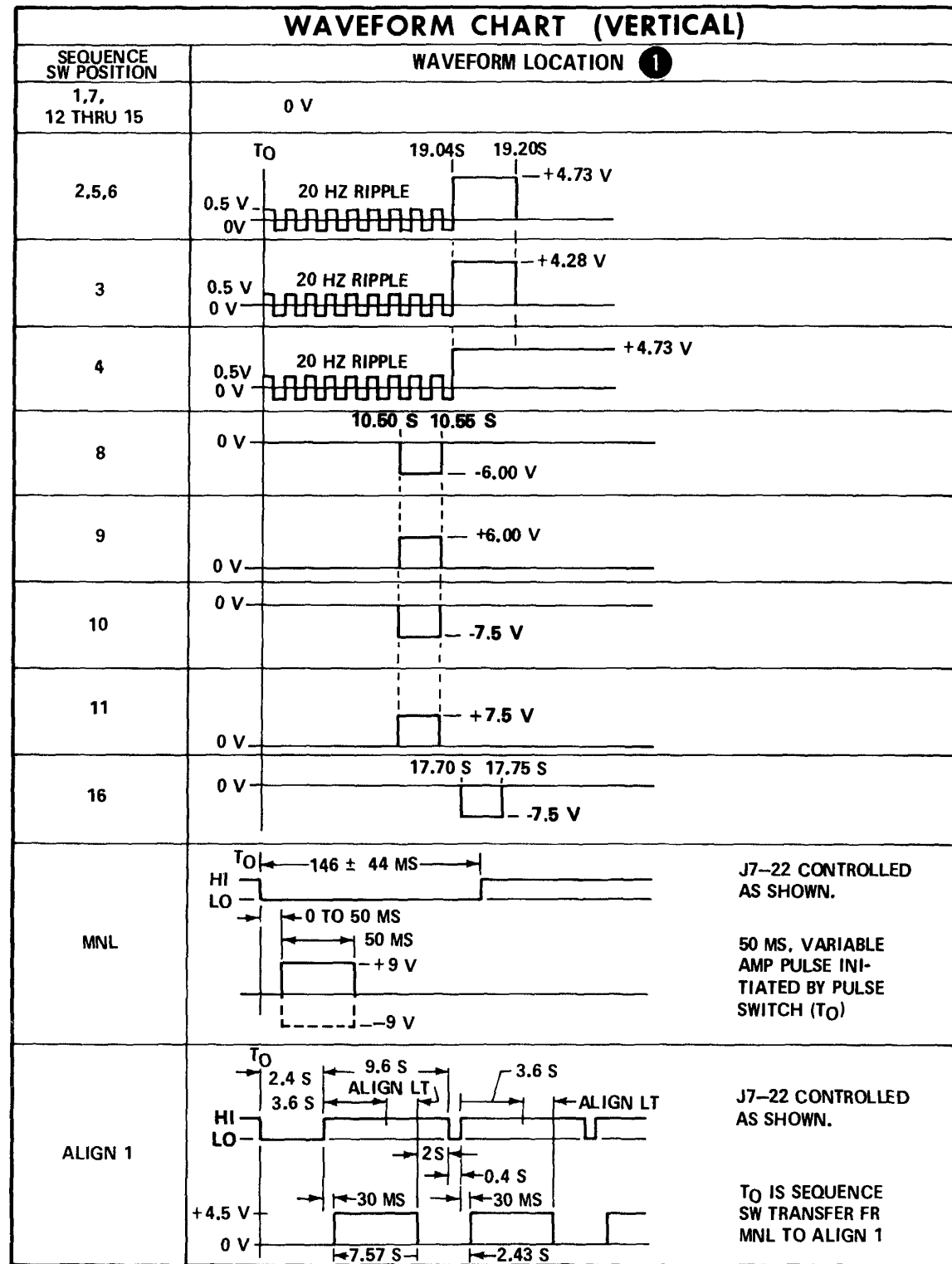
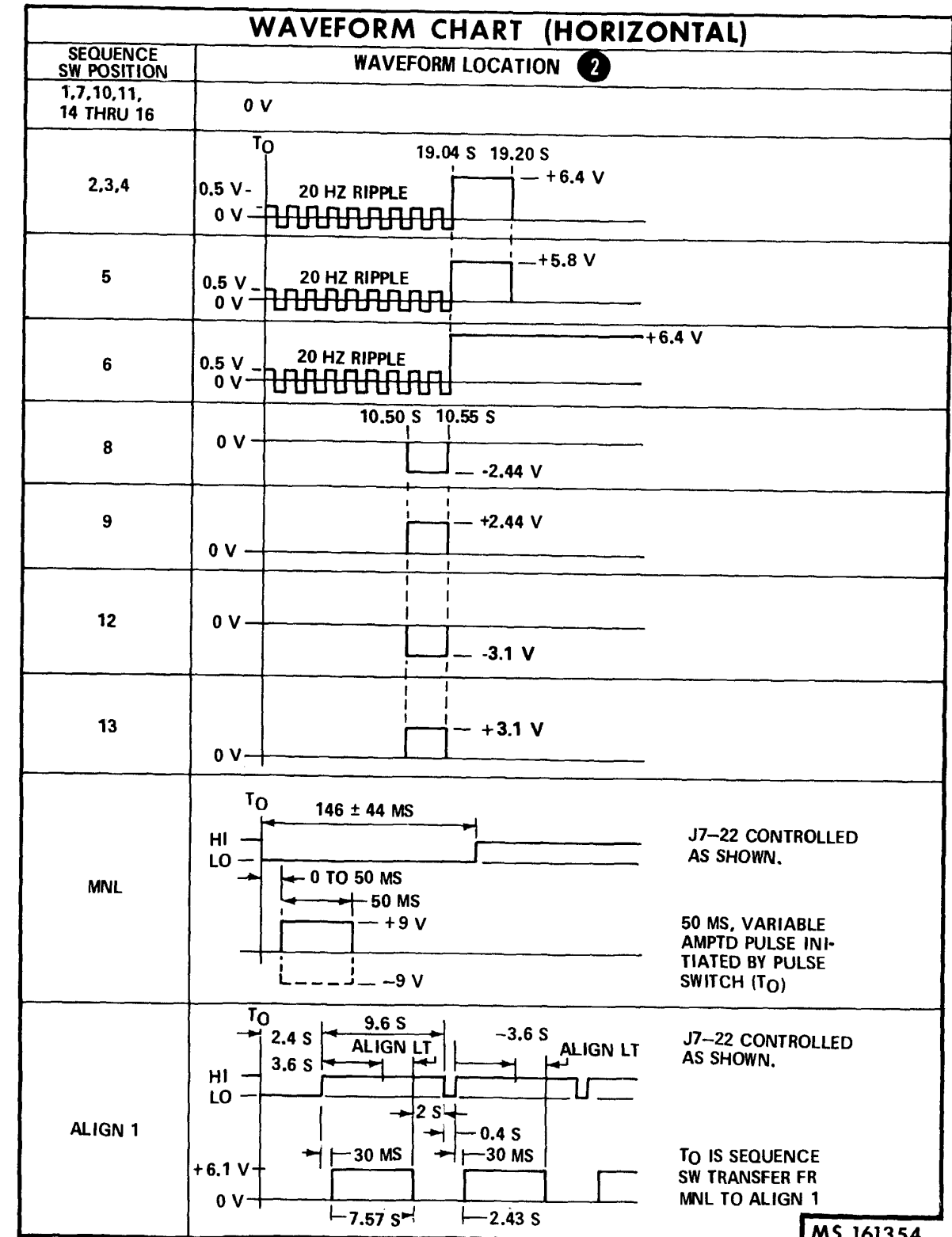


Figure 4-9. DMS-D card A8-
schematic diagram (sheet 2 of 4)

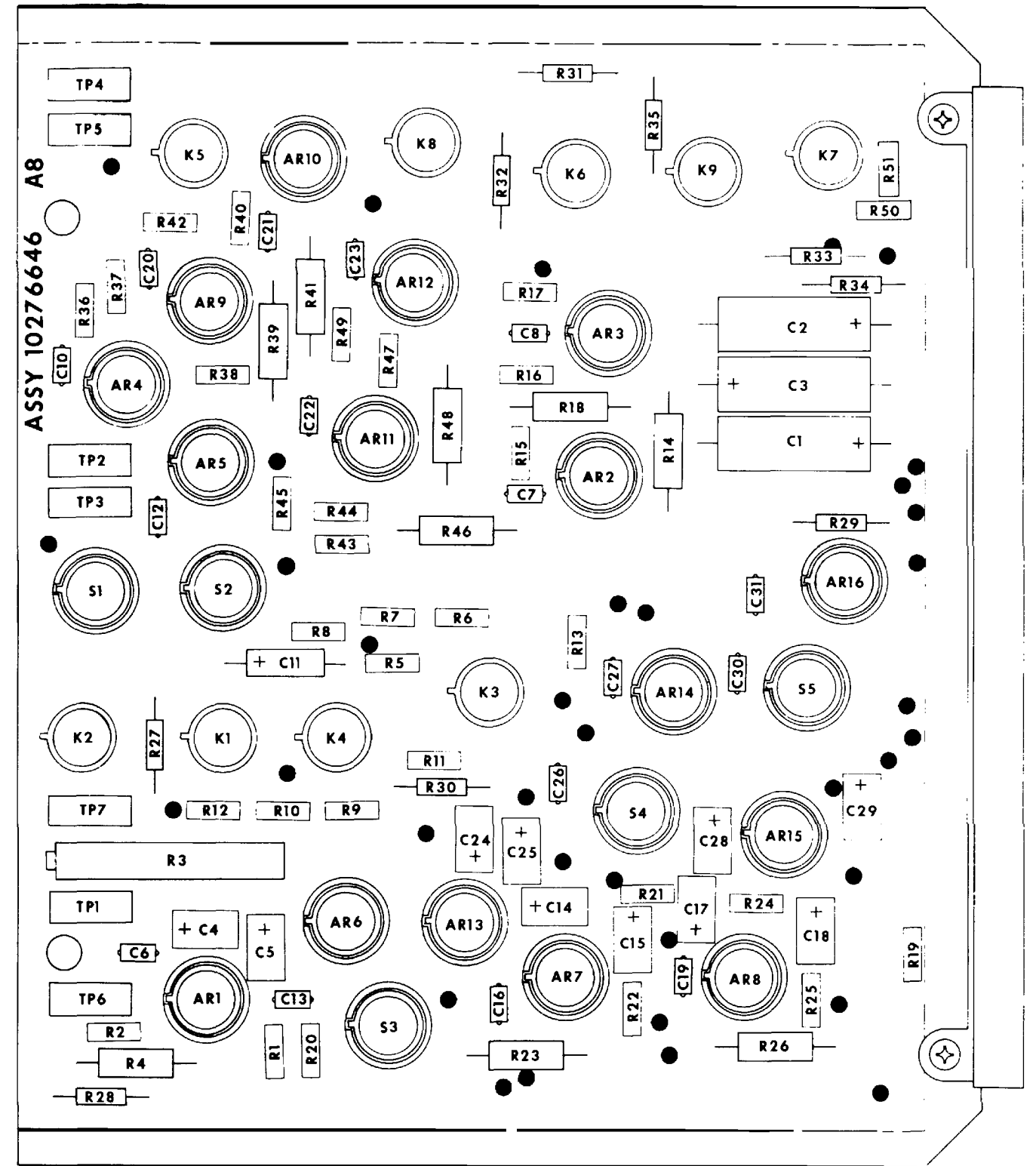


HI = ≥ +2.4 VDC



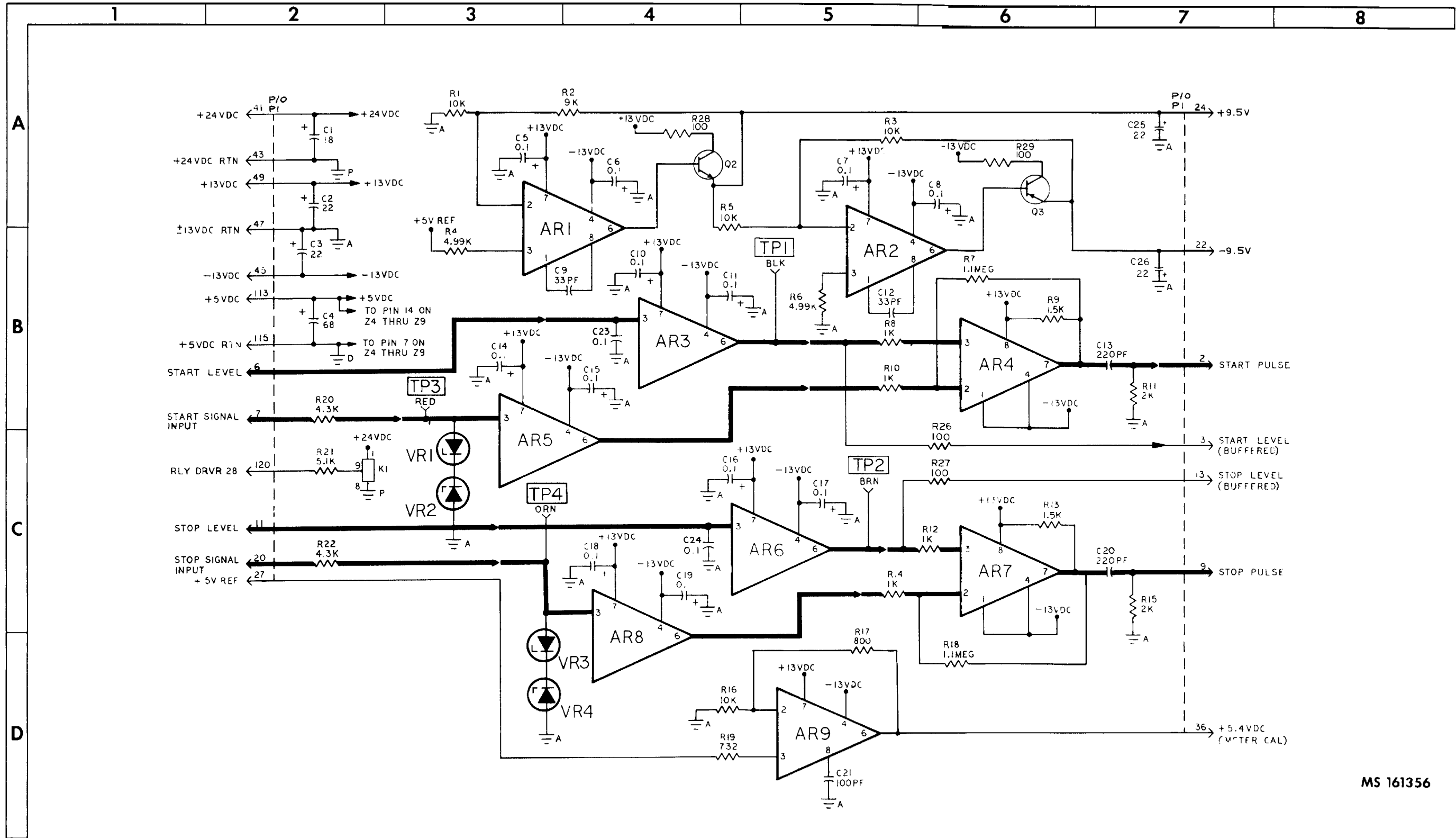
MS 161354

Figure 4-9. DMS-D card A8-schematic diagram (sheet 3 of 4)



MS 161355

Figure 4-9. DMS-D card A8 schematic diagram (sheet 4 of 4)



MS 161356

Figure 4-10. DMS-D card A8 (10275402) - schematic diagram (sheet 1 of 3)

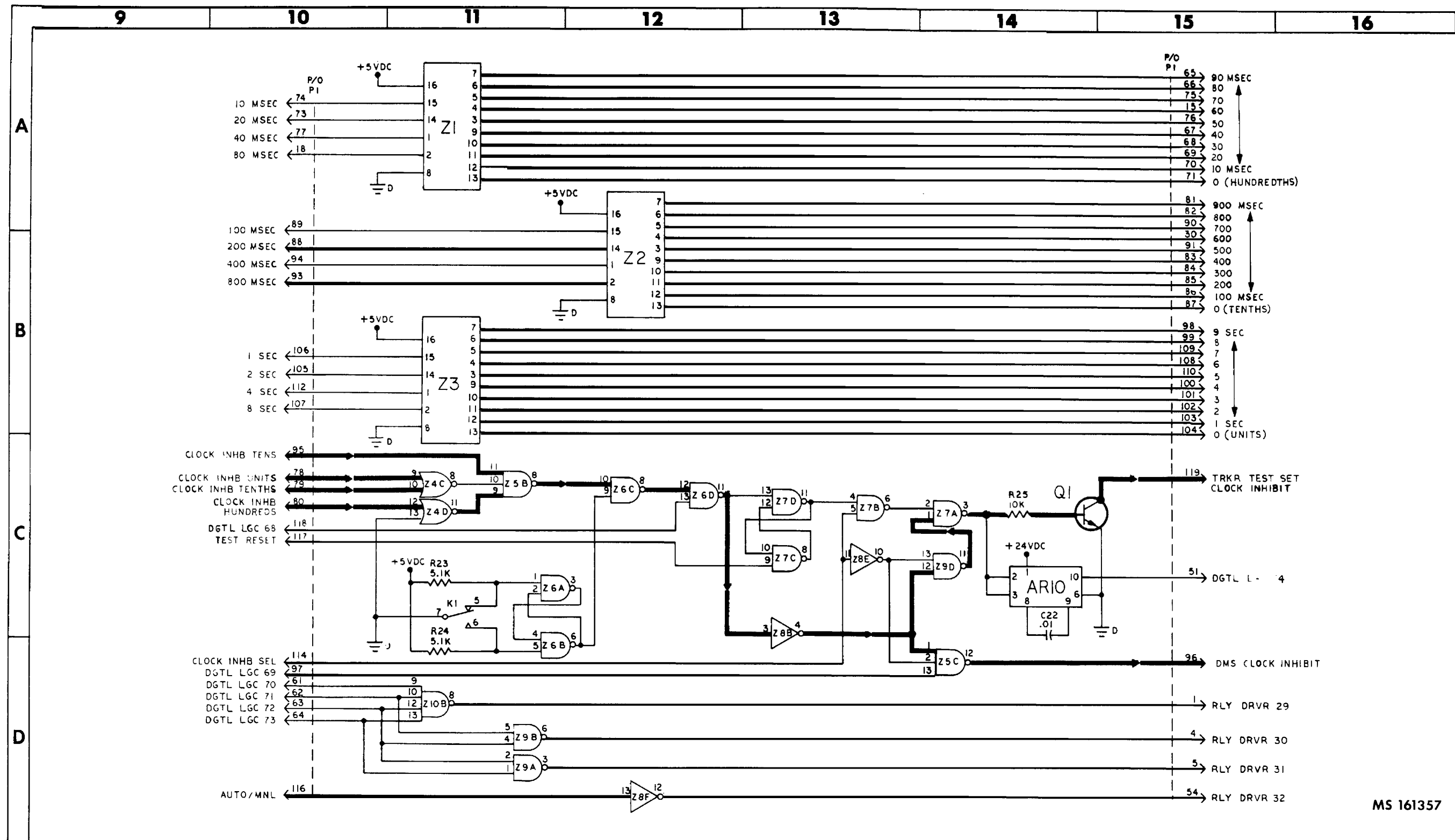
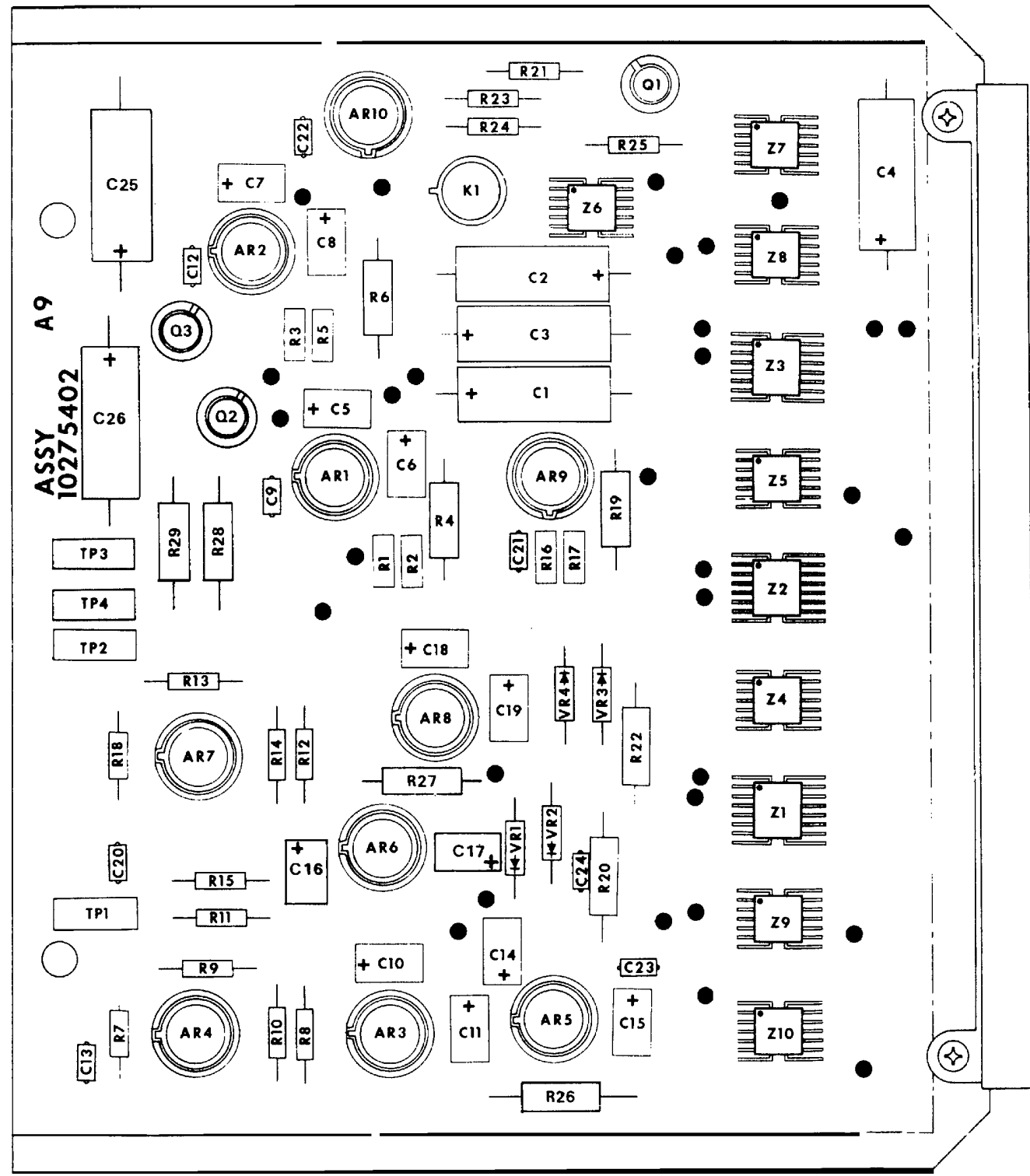


Figure 4-10. DMS-D card A9 (10275402) - schematic diagram (sheet 2 of 3)



MS 161358

Figure 4-10. DMS-D card A9 (10275402) - schematic diagram (sheet 3 of 3)

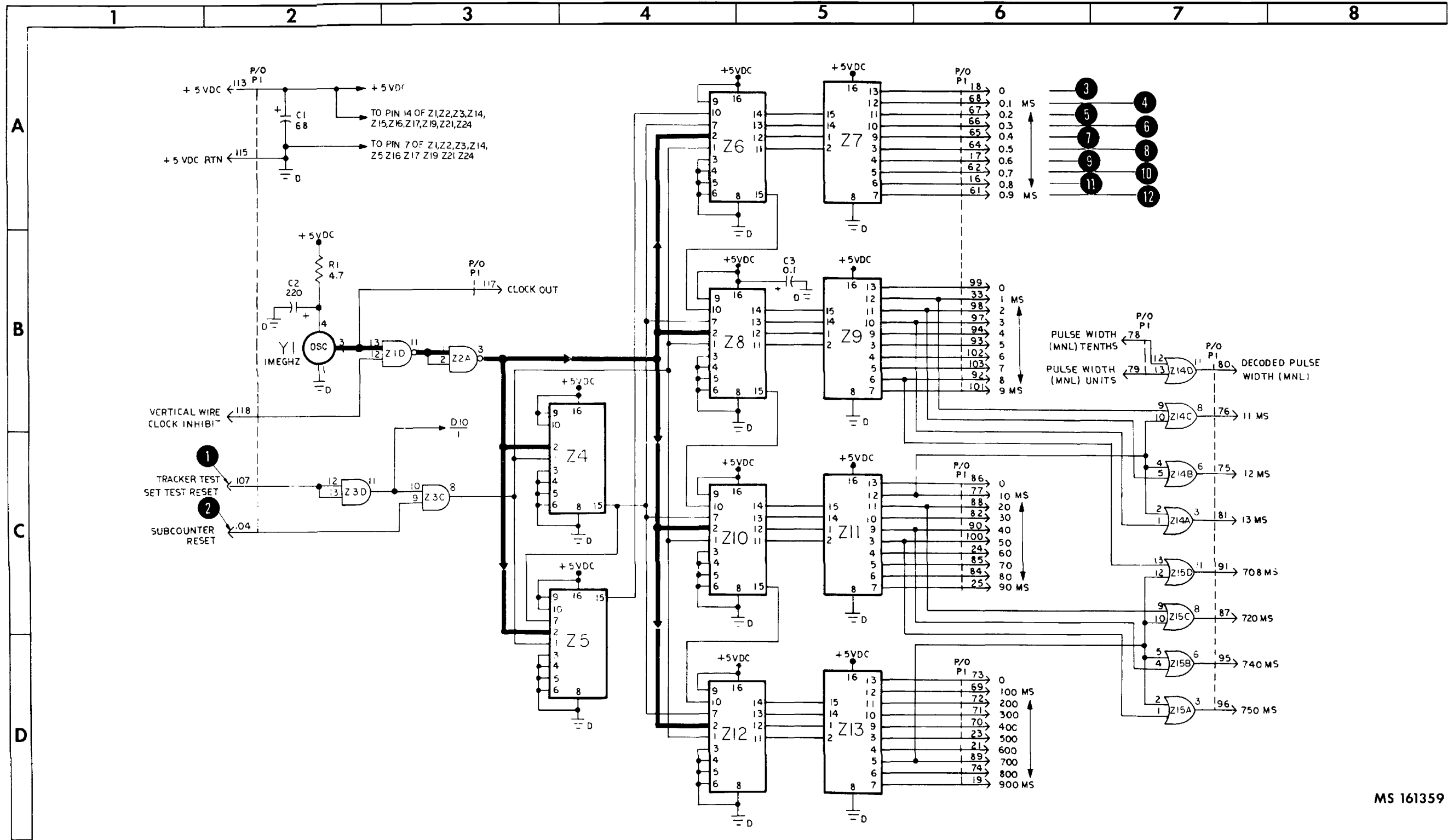


Figure 4-11. DMS-D card A10 schematic diagram (sheet 1 of 3)

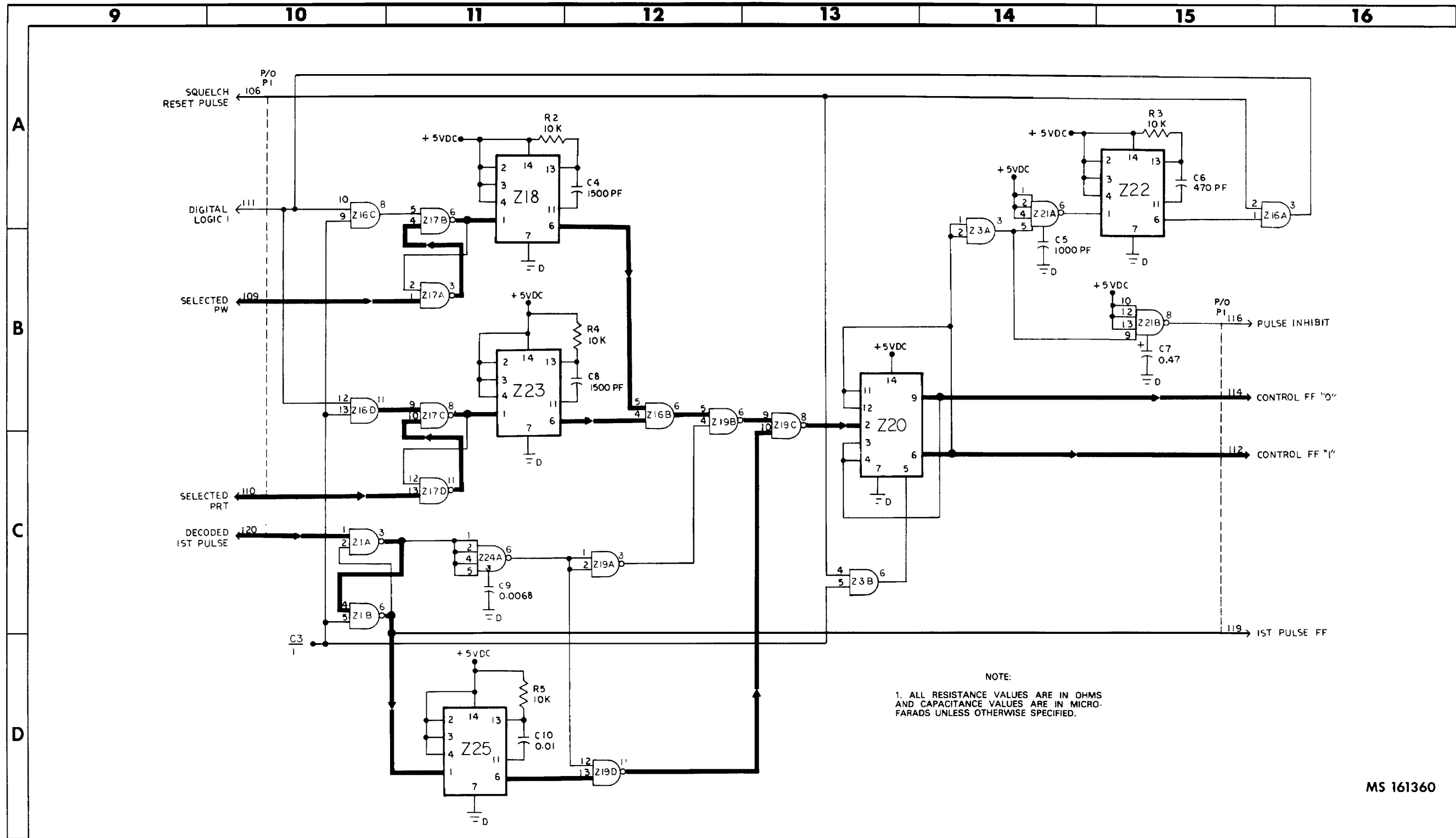
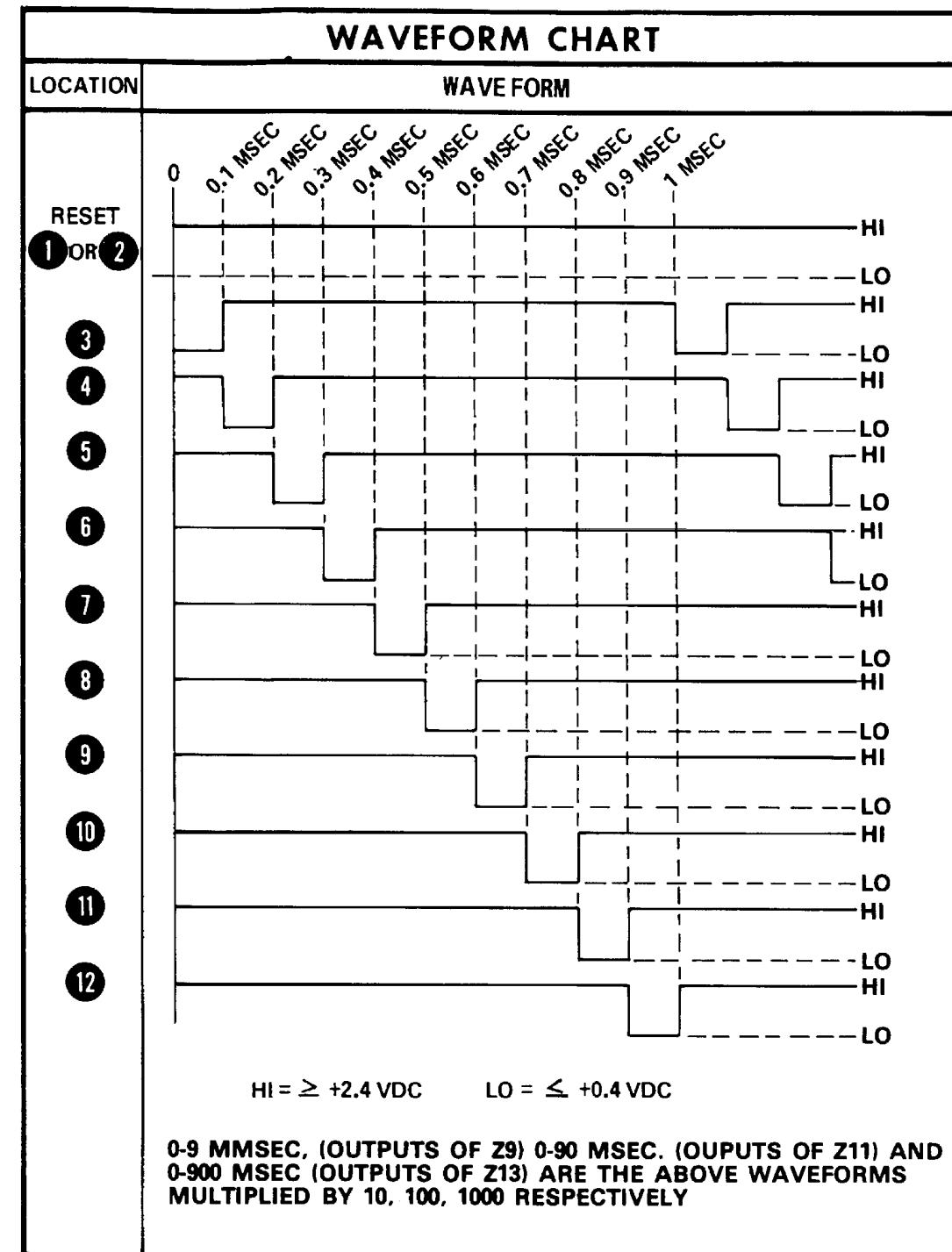
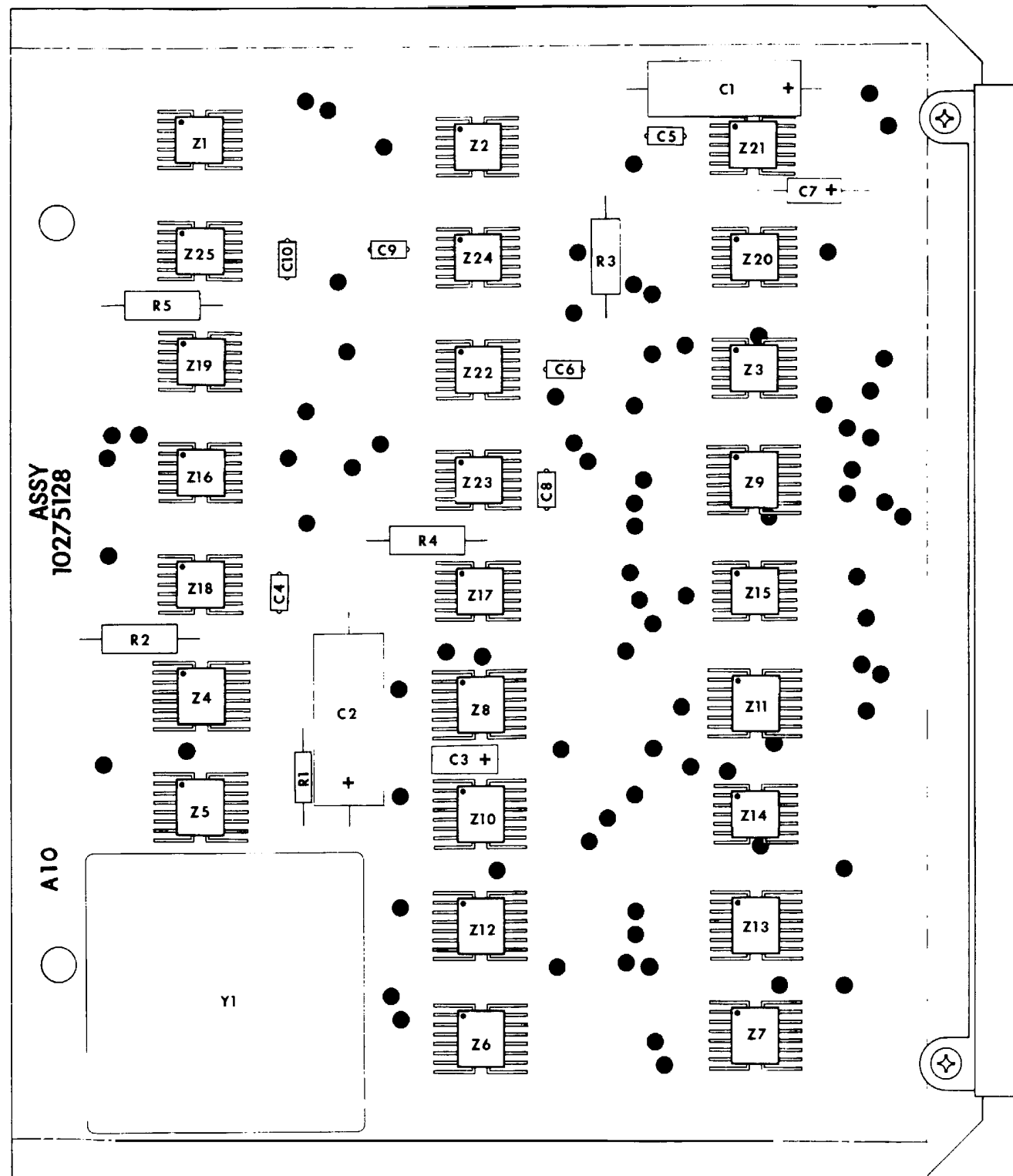
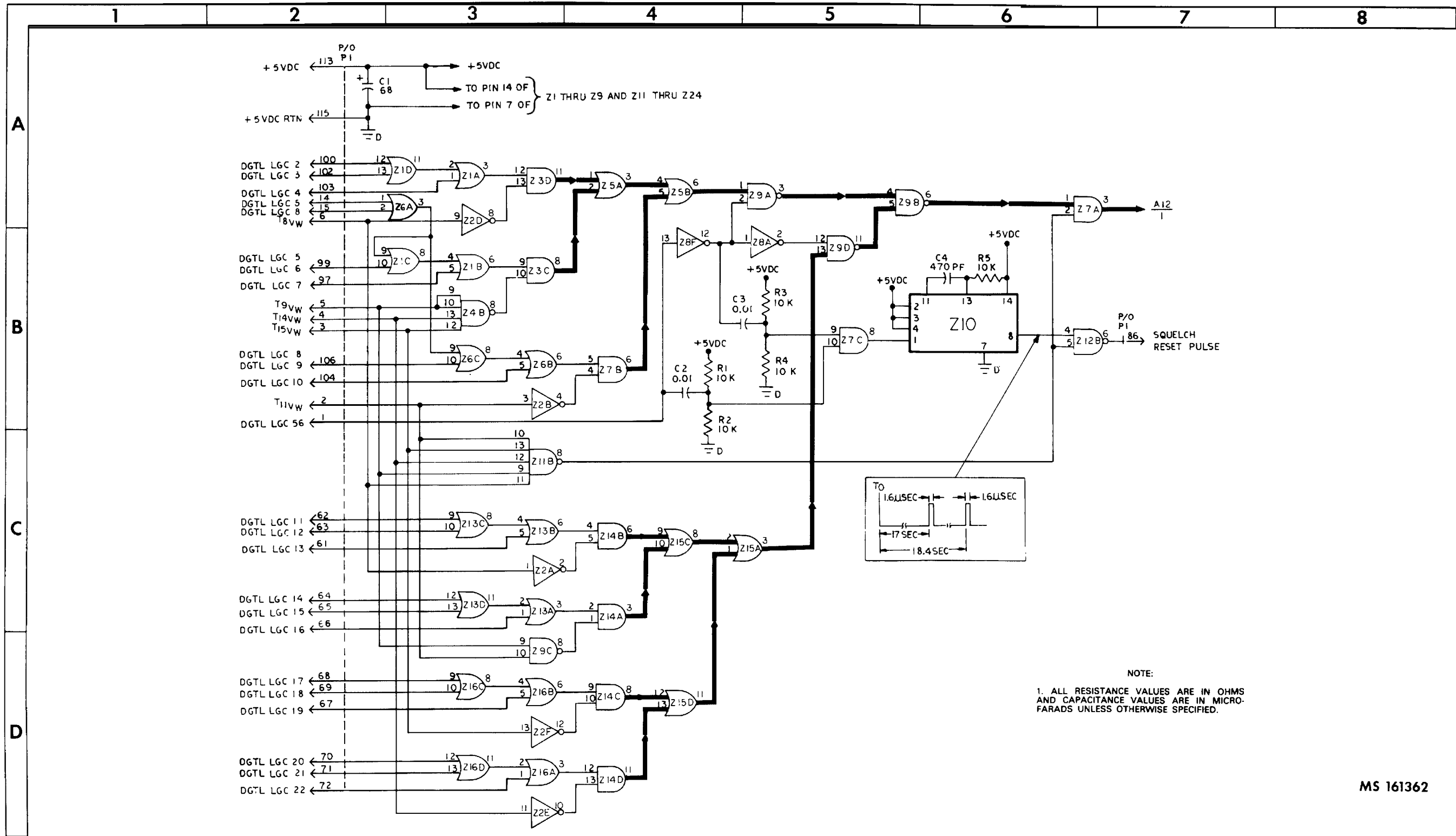


Figure 4-11. DMS-D card A10 schematic diagram (sheet 2 of 3)



MS 161361

Figure 4-11. DMS-D card A10 schematic diagram (sheet 3 of 3)



NOTE:
1. ALL RESISTANCE VALUES ARE IN OHMS
AND CAPACITANCE VALUES ARE IN MICRO-
FARADS UNLESS OTHERWISE SPECIFIED.

Figure 4-12. DMS-D card All (10275131) - schematic diagram (sheet 1 of 4)

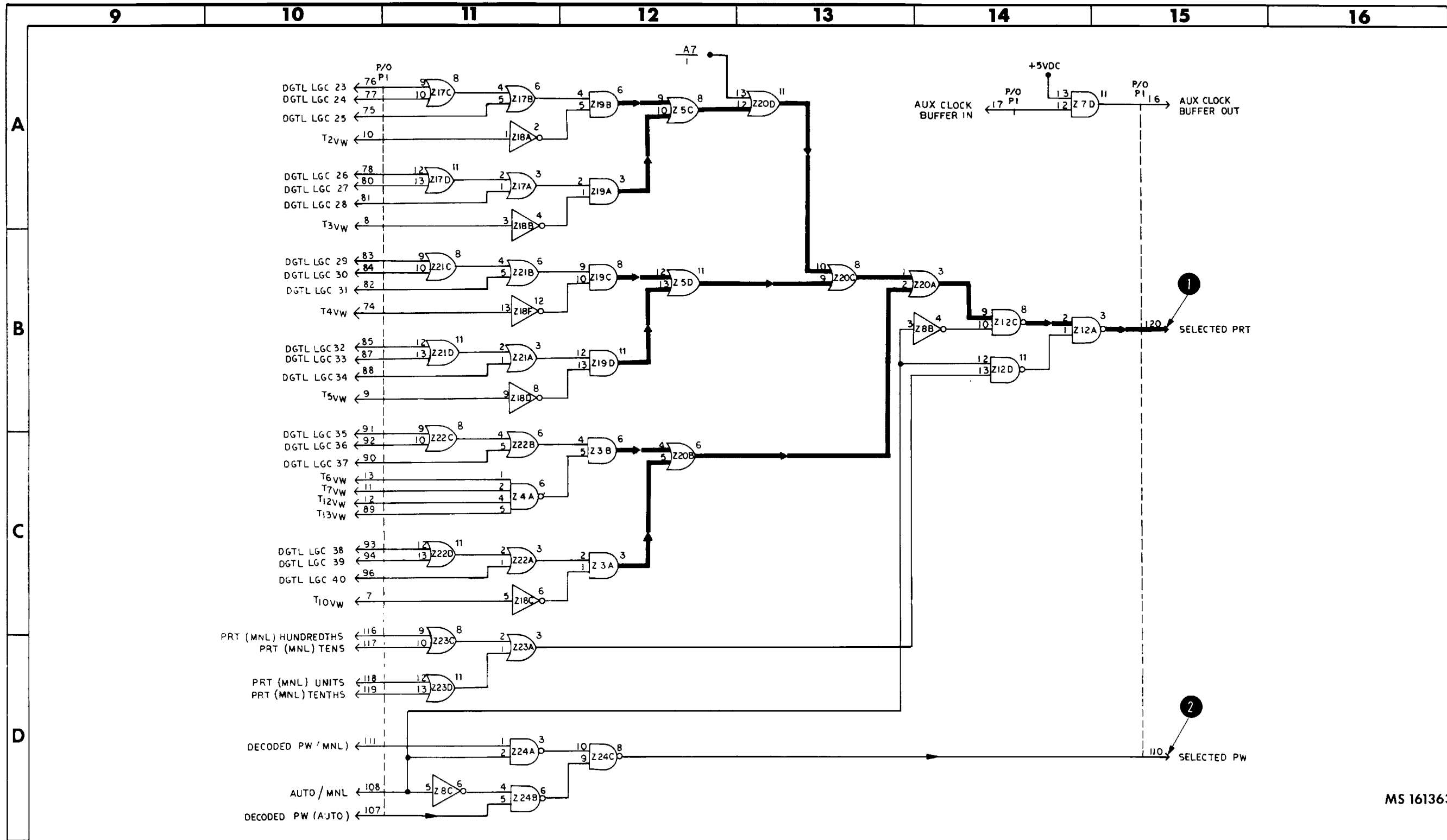
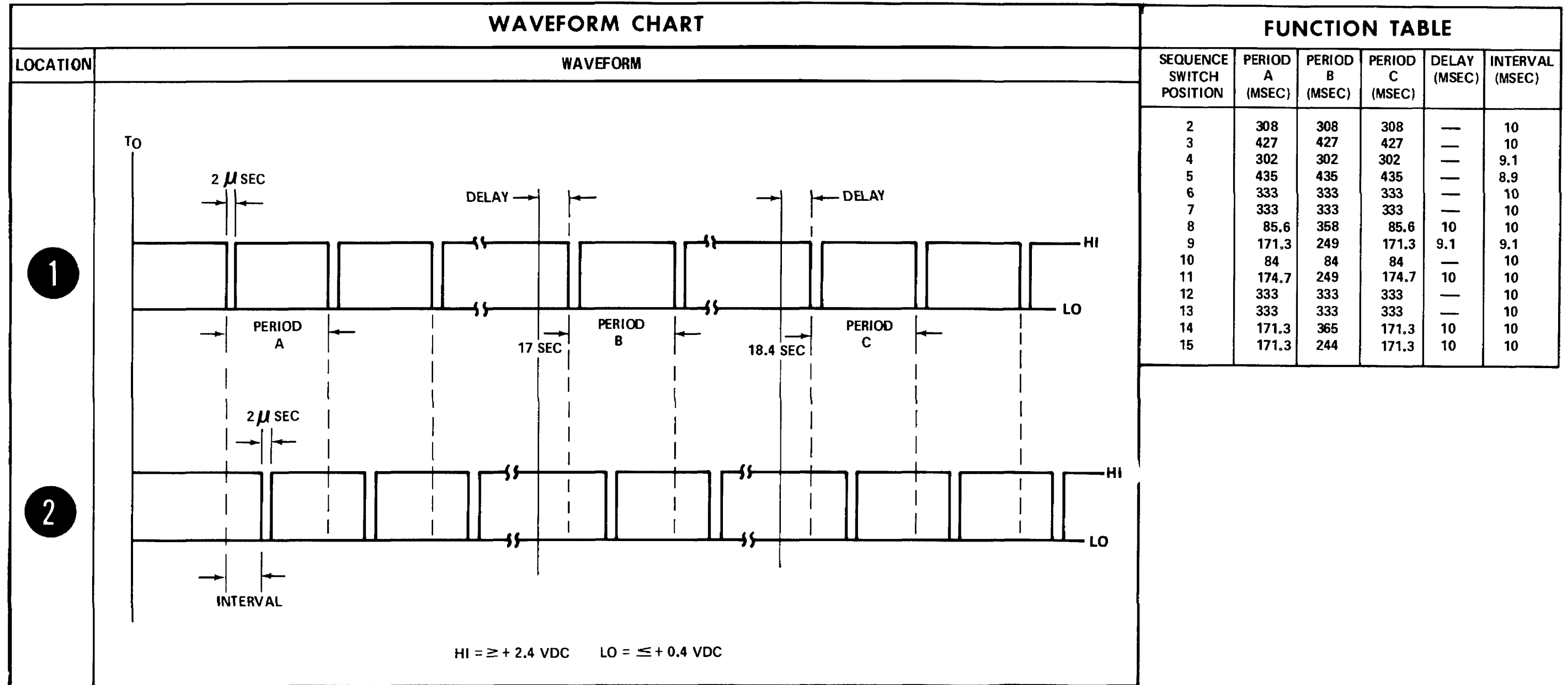
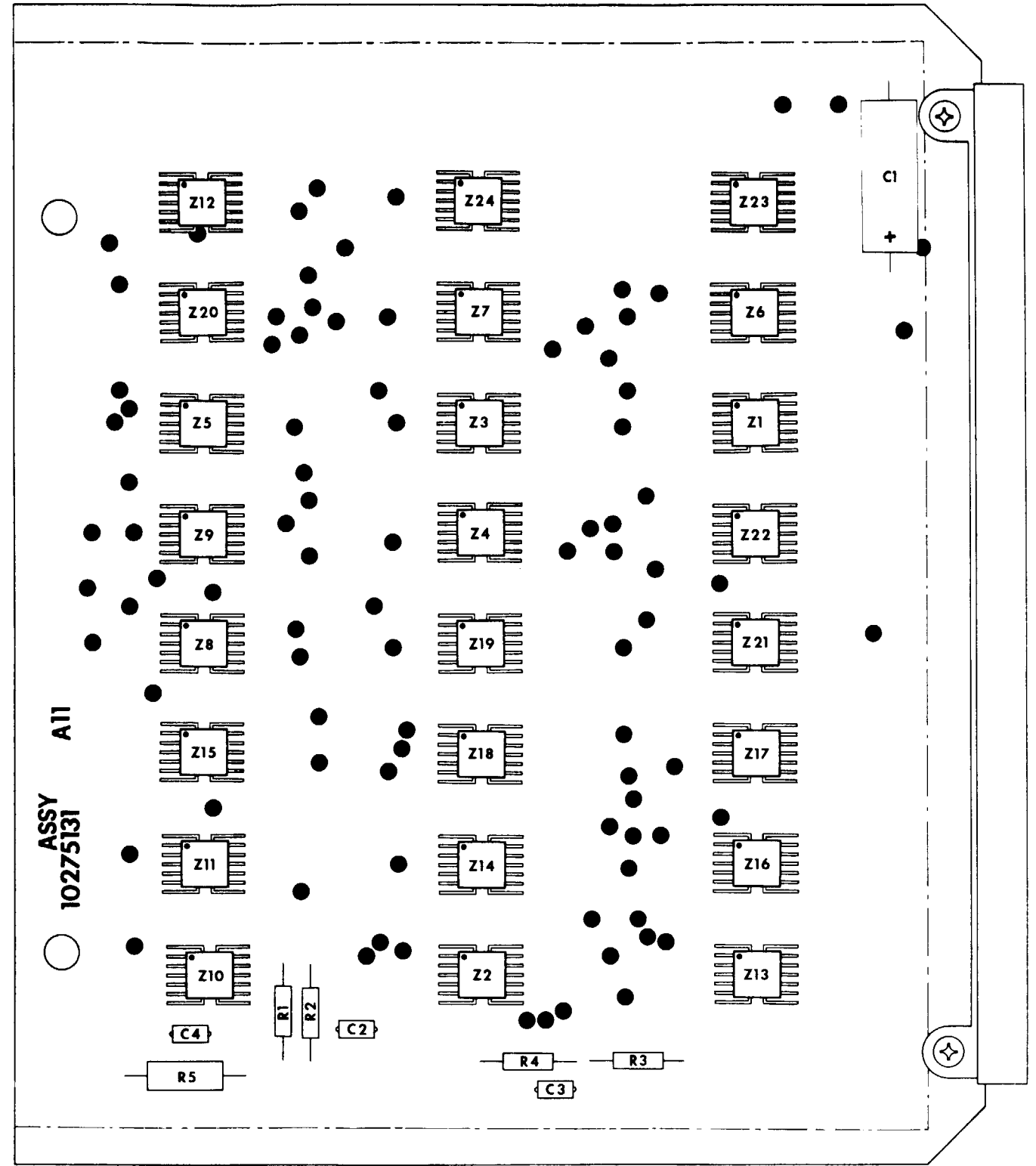


Figure 4-12. DMS-D card All (10275131) - schematic diagram (sheet 2 of 4)



MS 161364

Figure 4-12. DMS-D card All (10275131) - schematic diagram (sheet 3 of 4)



MS 161365

Figure 4-12. DMS-D card All (10275131)-
schematic diagram (sheet 4 of 4)

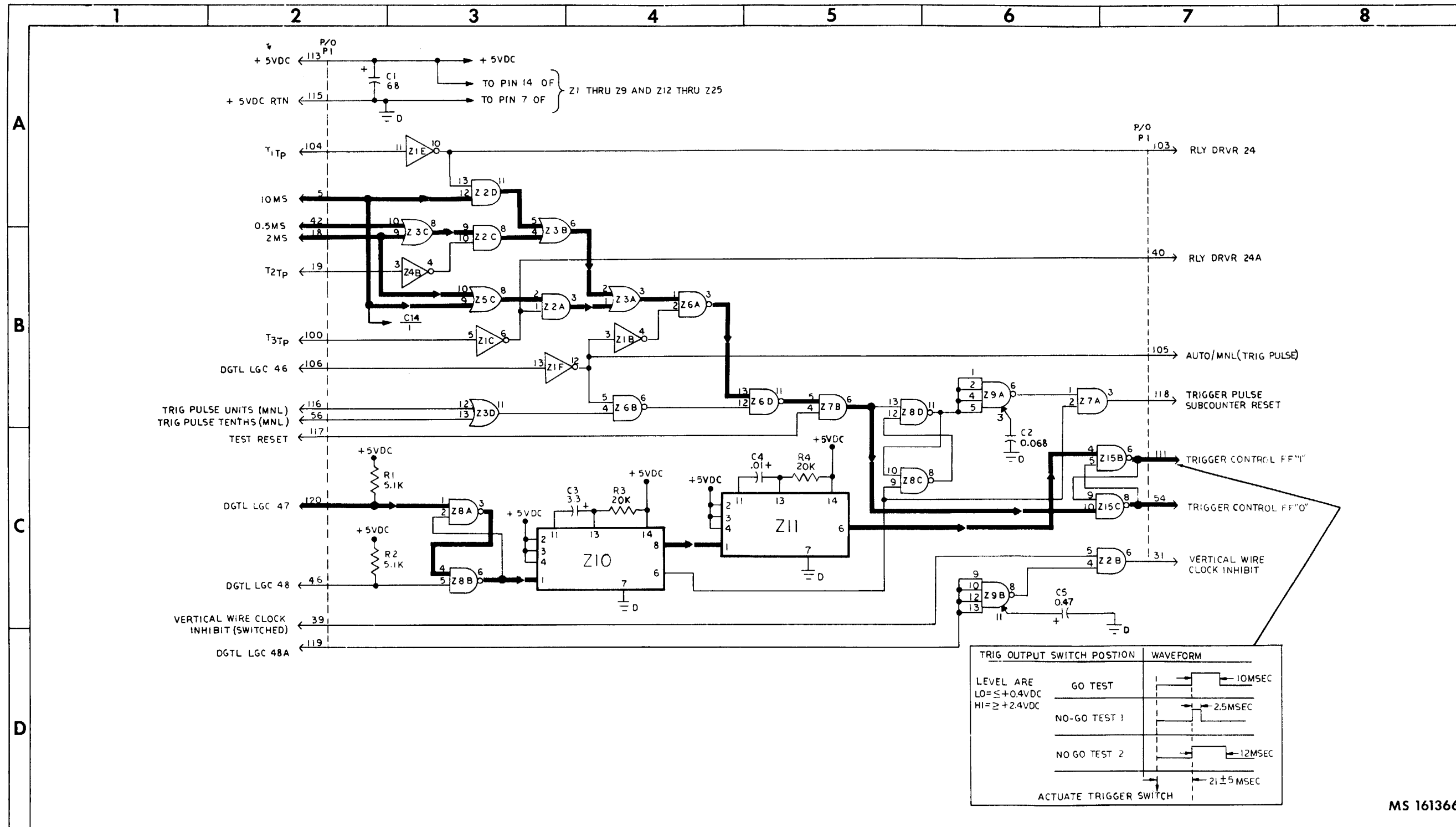


Figure 4-13. DMS-D card A12 (10275140) - schematic diagram (sheet 1 of 3)

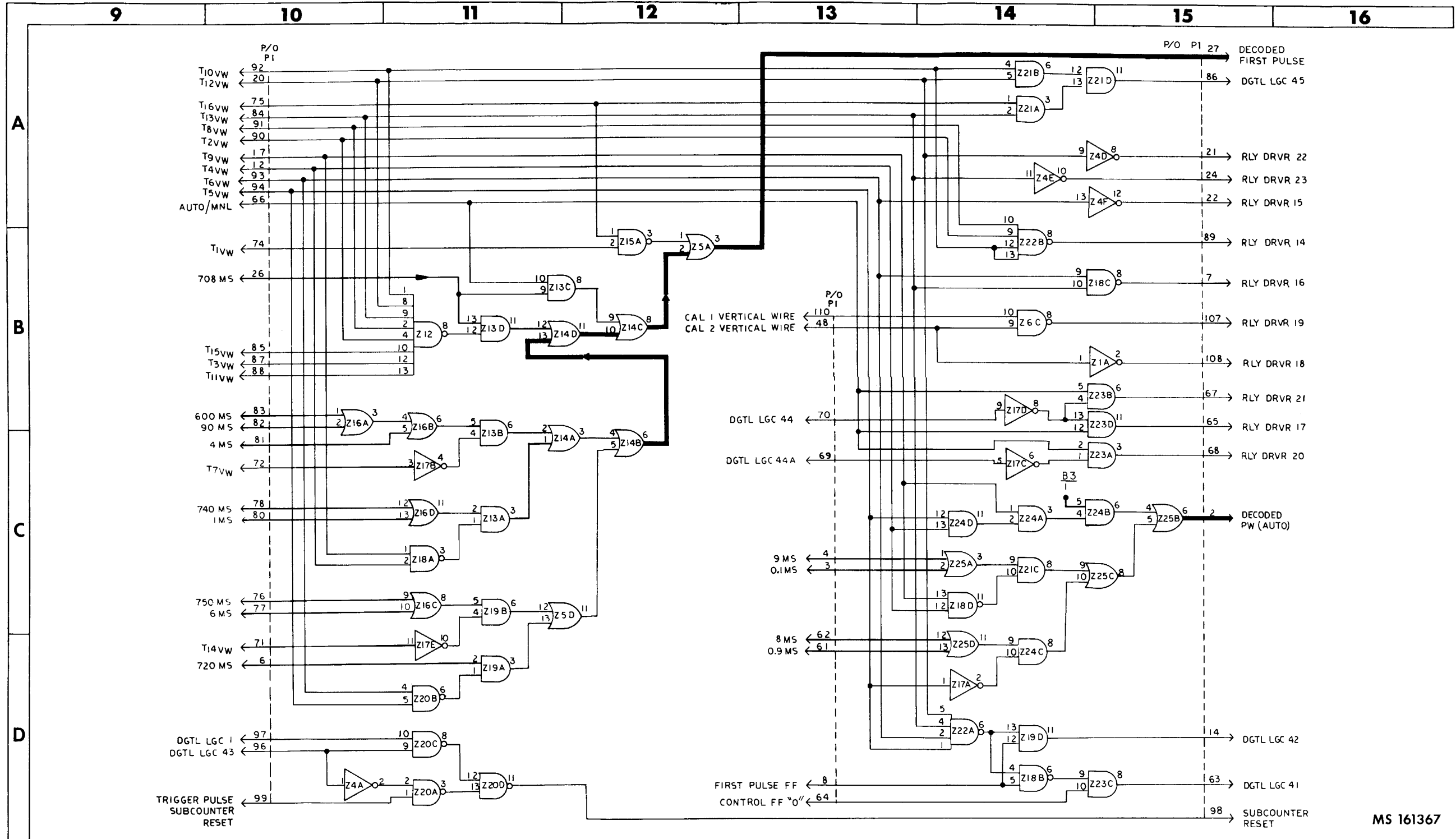
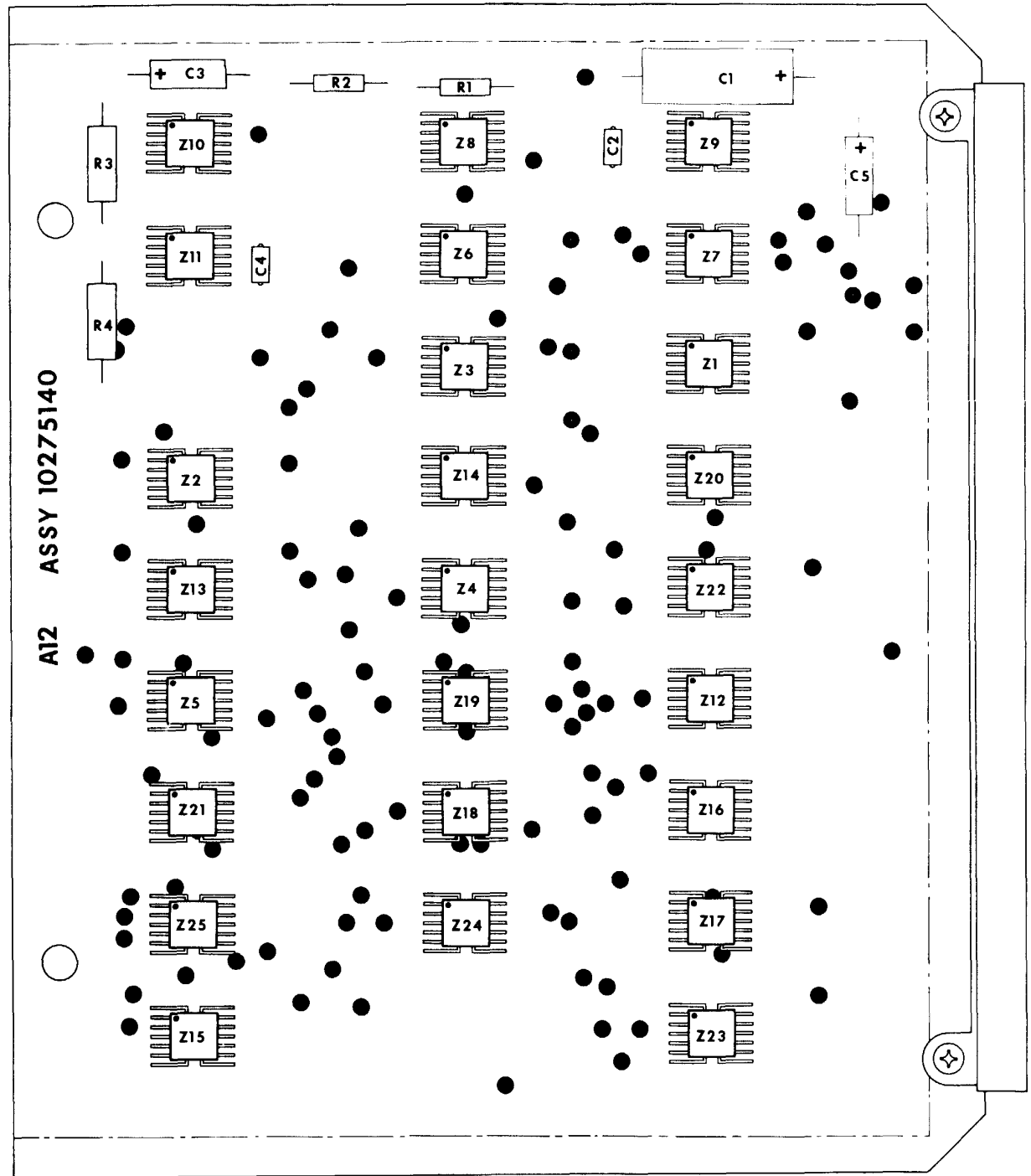


Figure 4-13. DMS-D card A12 schematic diagram (sheet 2 of 3)

MS 161367



MS 161368

Figure 4-13. DMS-D card A12
schematic diagram (sheet 3 of 3)

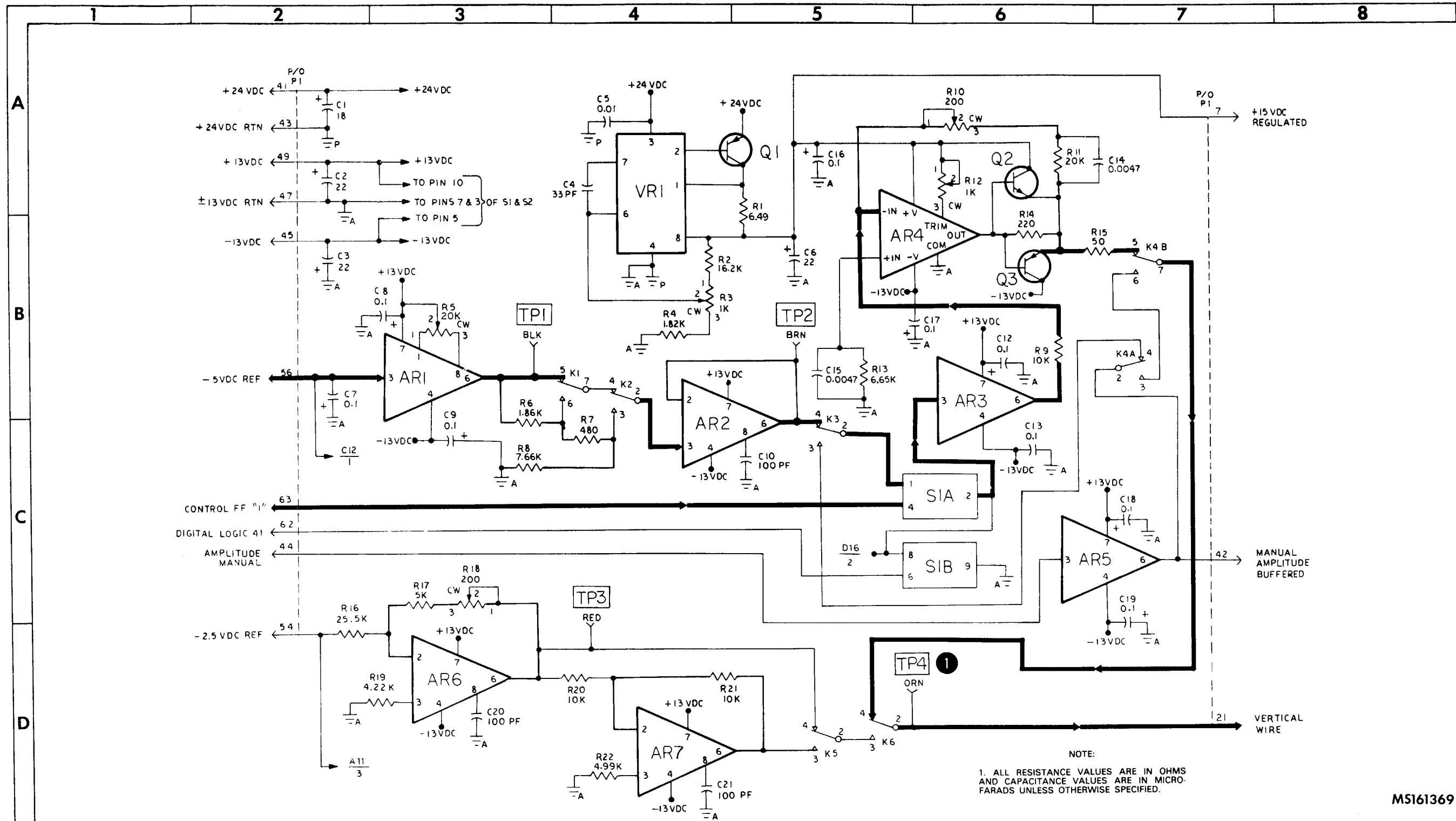
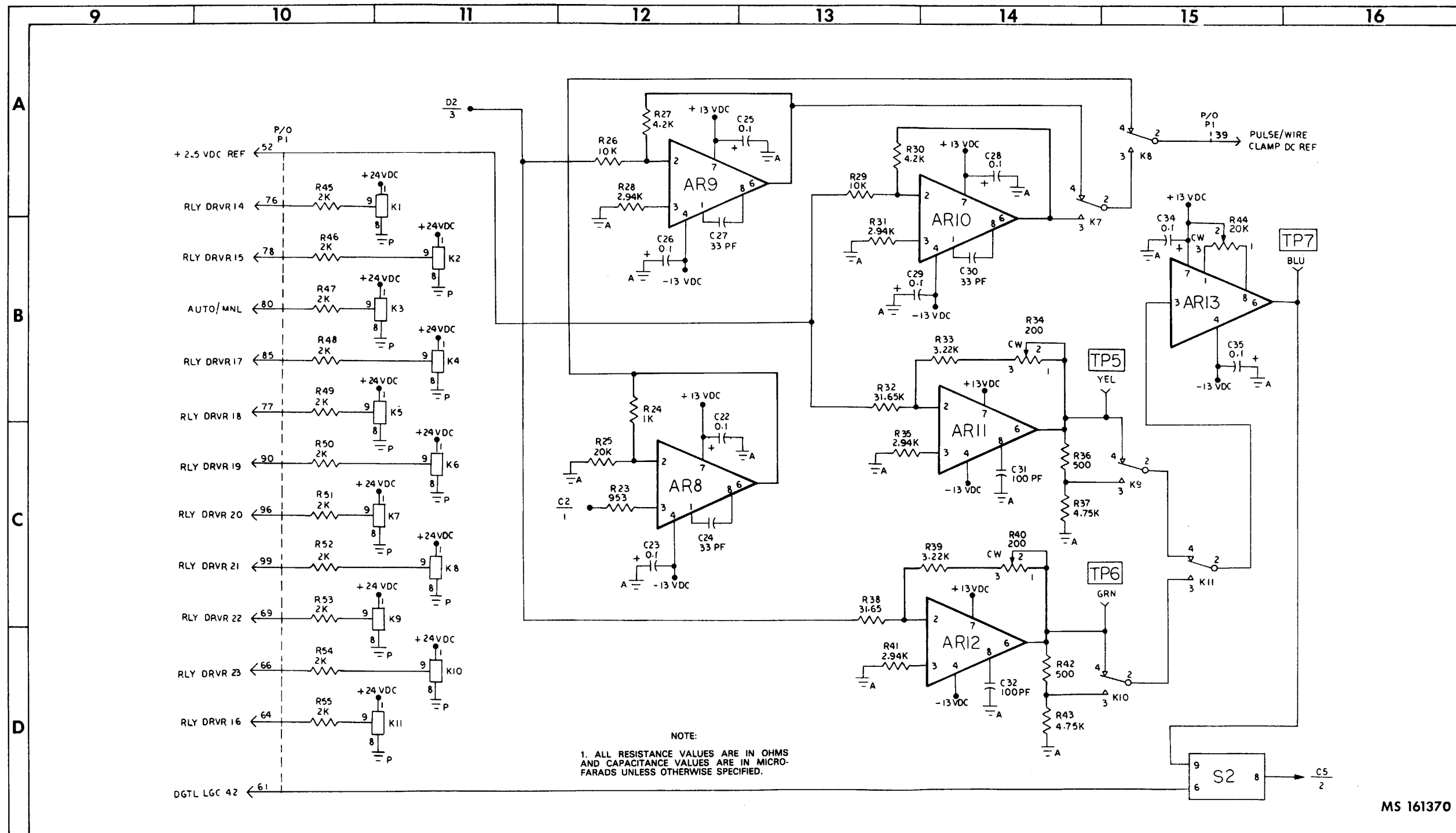


Figure 4-14. DMS-D card A13 schematic diagram (sheet 1 of 4)

MS161369



MS 161370

Figure 4-14. DMS-D card A13 - schematic diagram (sheet 2 of 4)

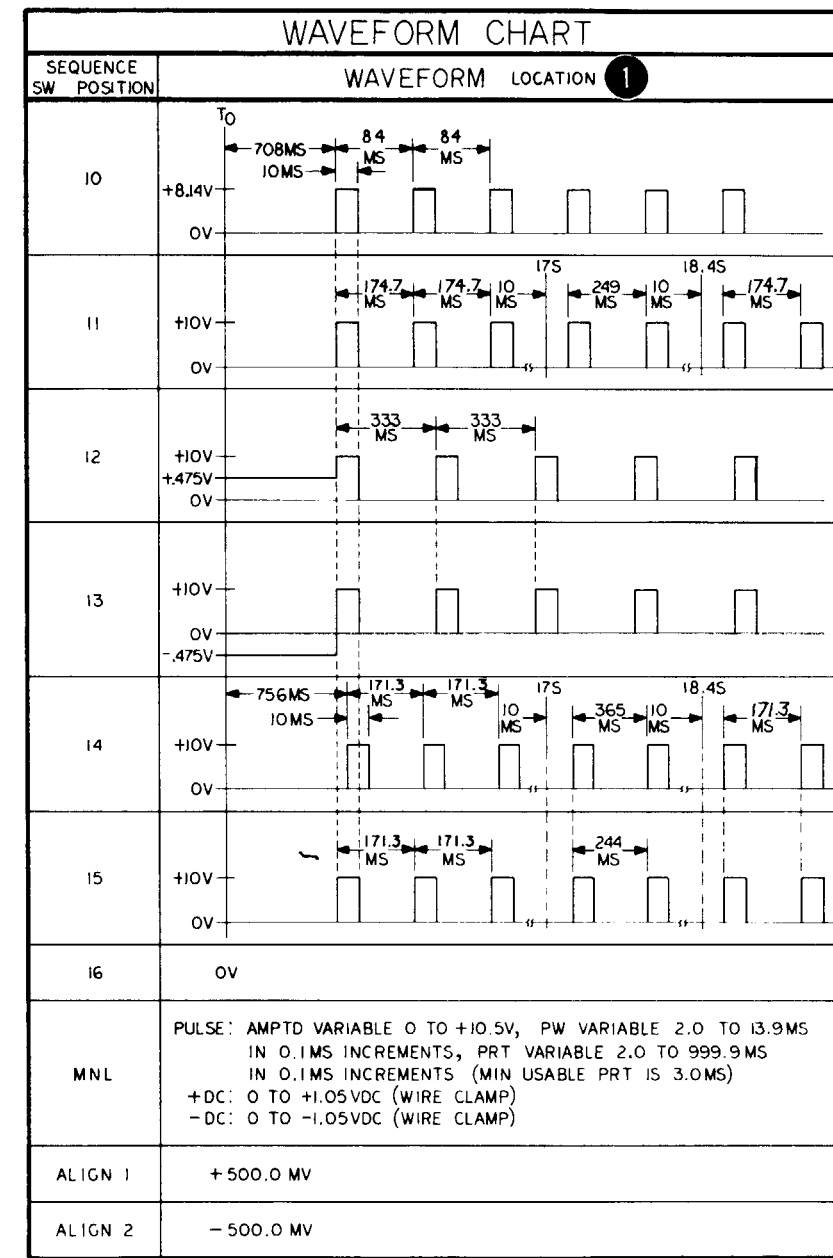
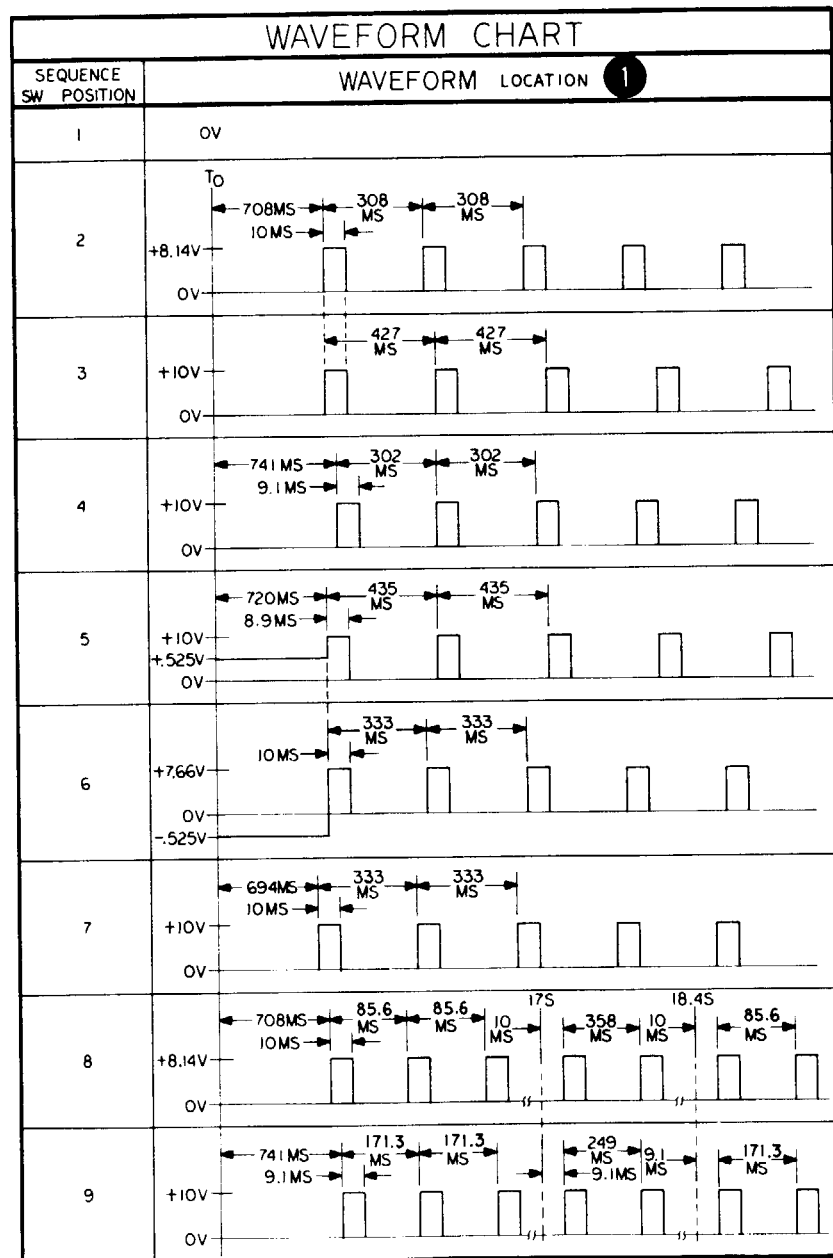
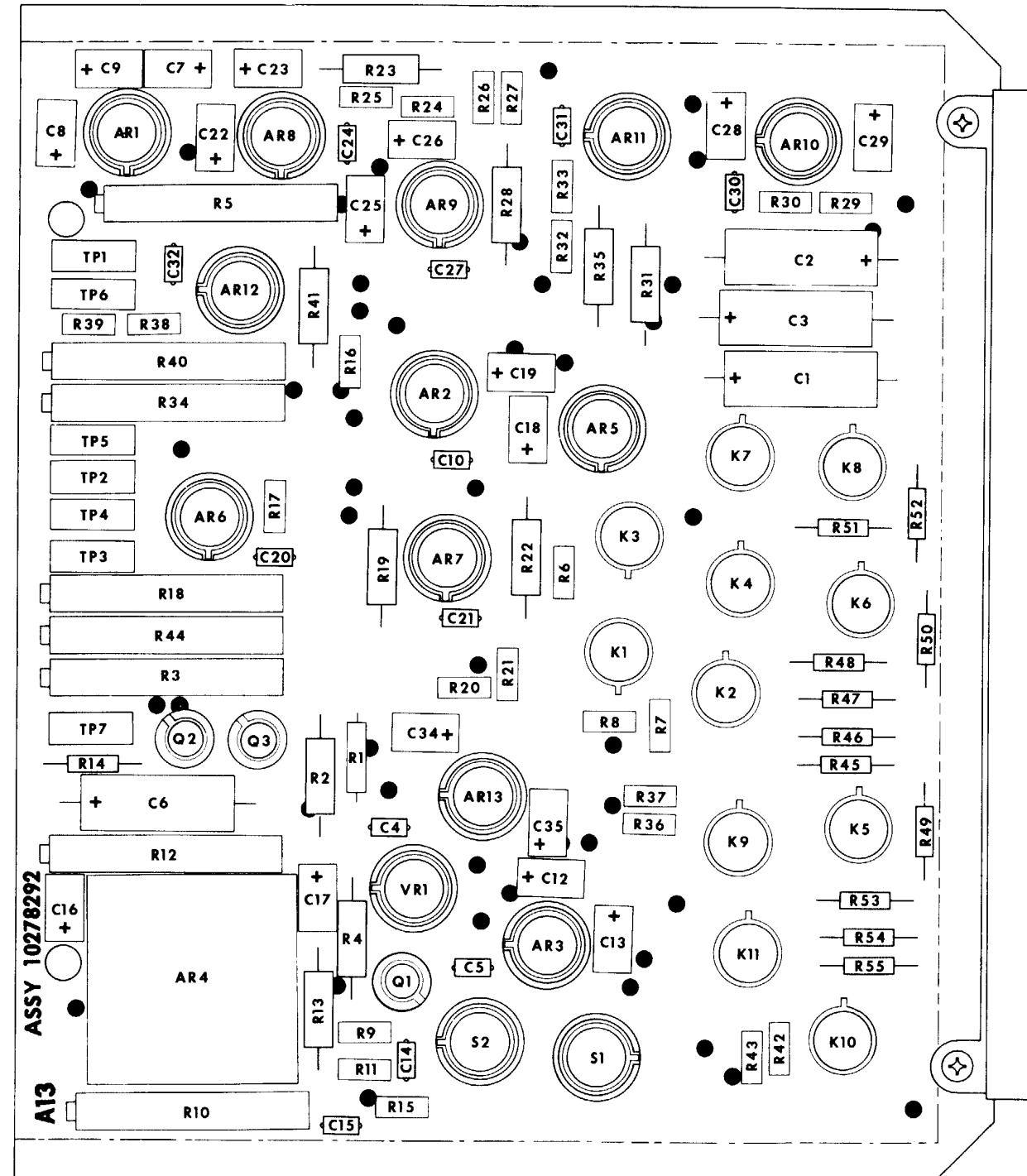


Figure 4-14. DMS-D card A13 - schematic diagram (sheet 3 of 4)



MS161372

Figure 4-14. DMS-D card A13 - schematic diagram (sheet 4 of 4)

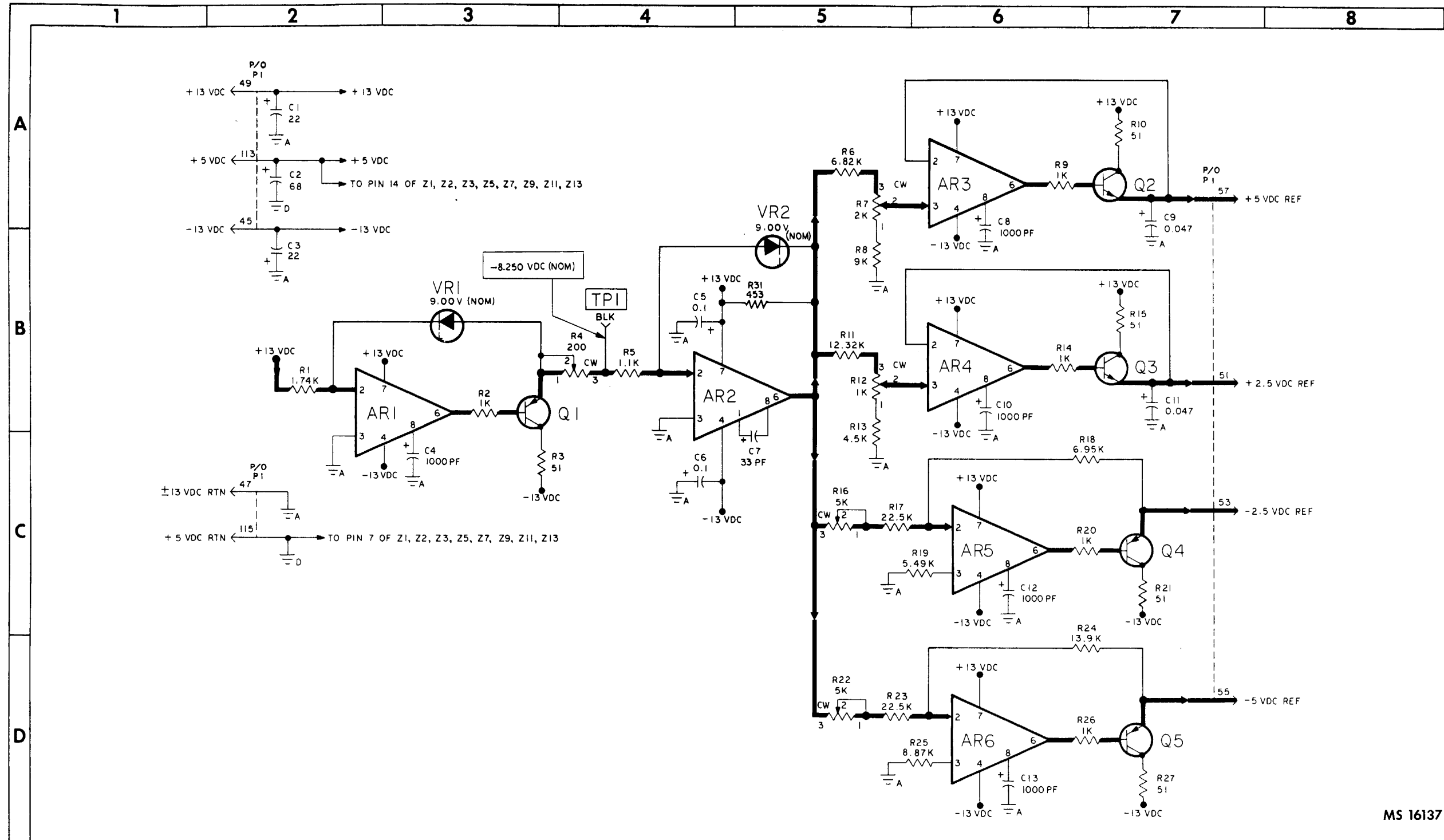


Figure 4-15. DMS-D card A14 (10275092)-
schematic diagram (sheet 1 of 3)

MS 161373

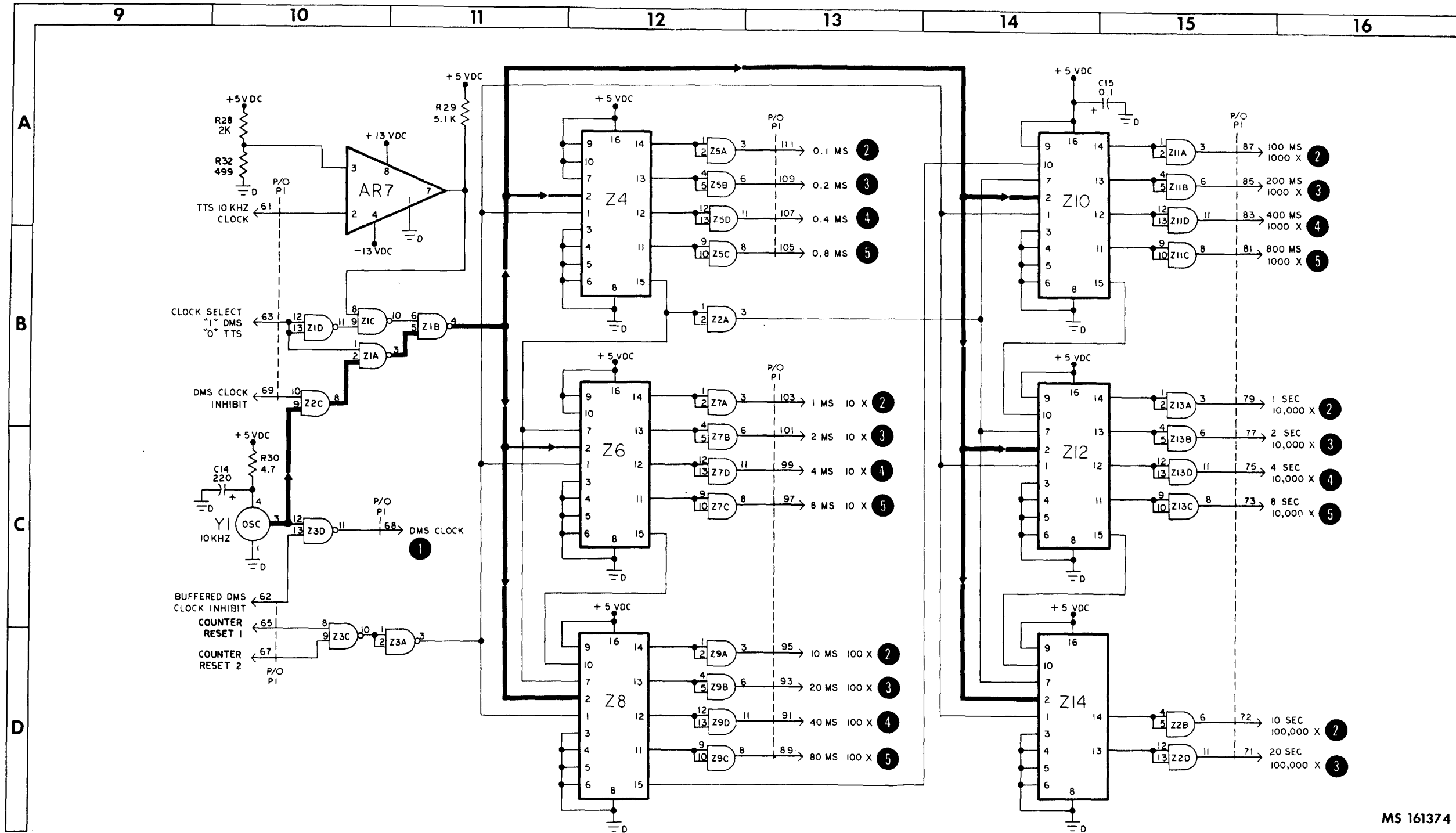
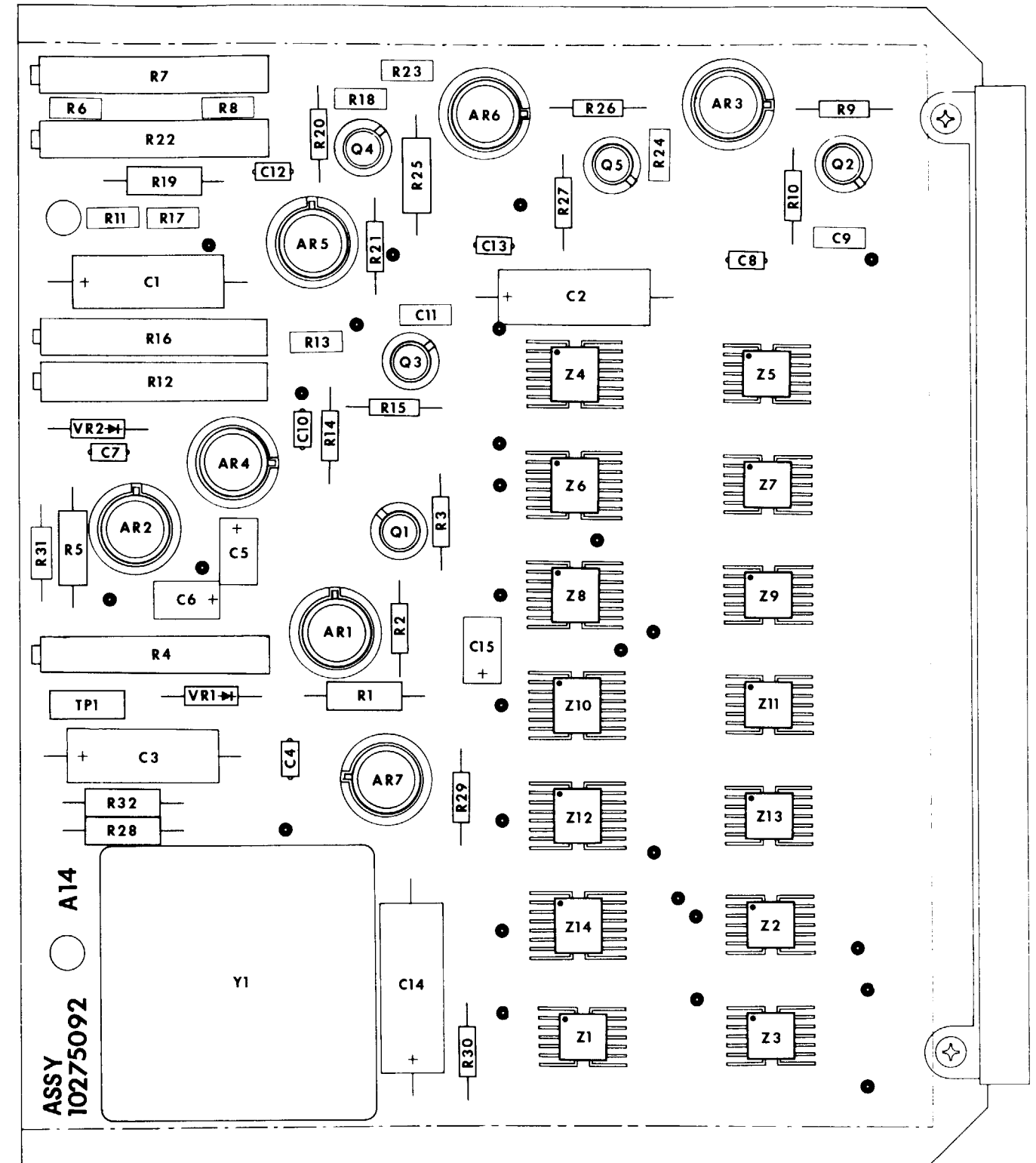
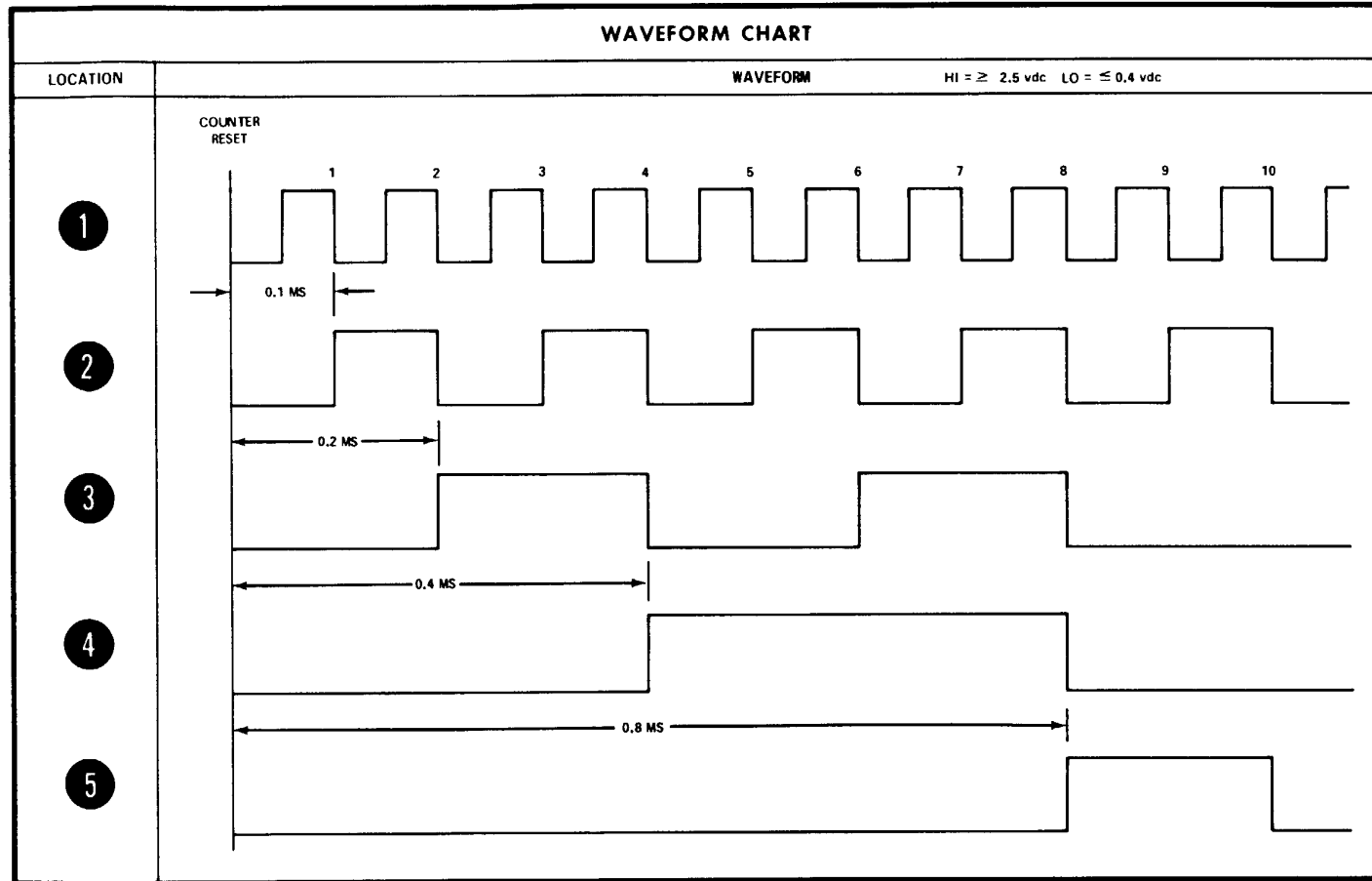


Figure 4-15. DMS-D card A14 (10275092) - schematic diagram (sheet 2 of 3)

MS 161374



MS 161375

Figure 4-15. DMS-D card A14 (10275092 -schematic diagram (sheet 3 of 3)

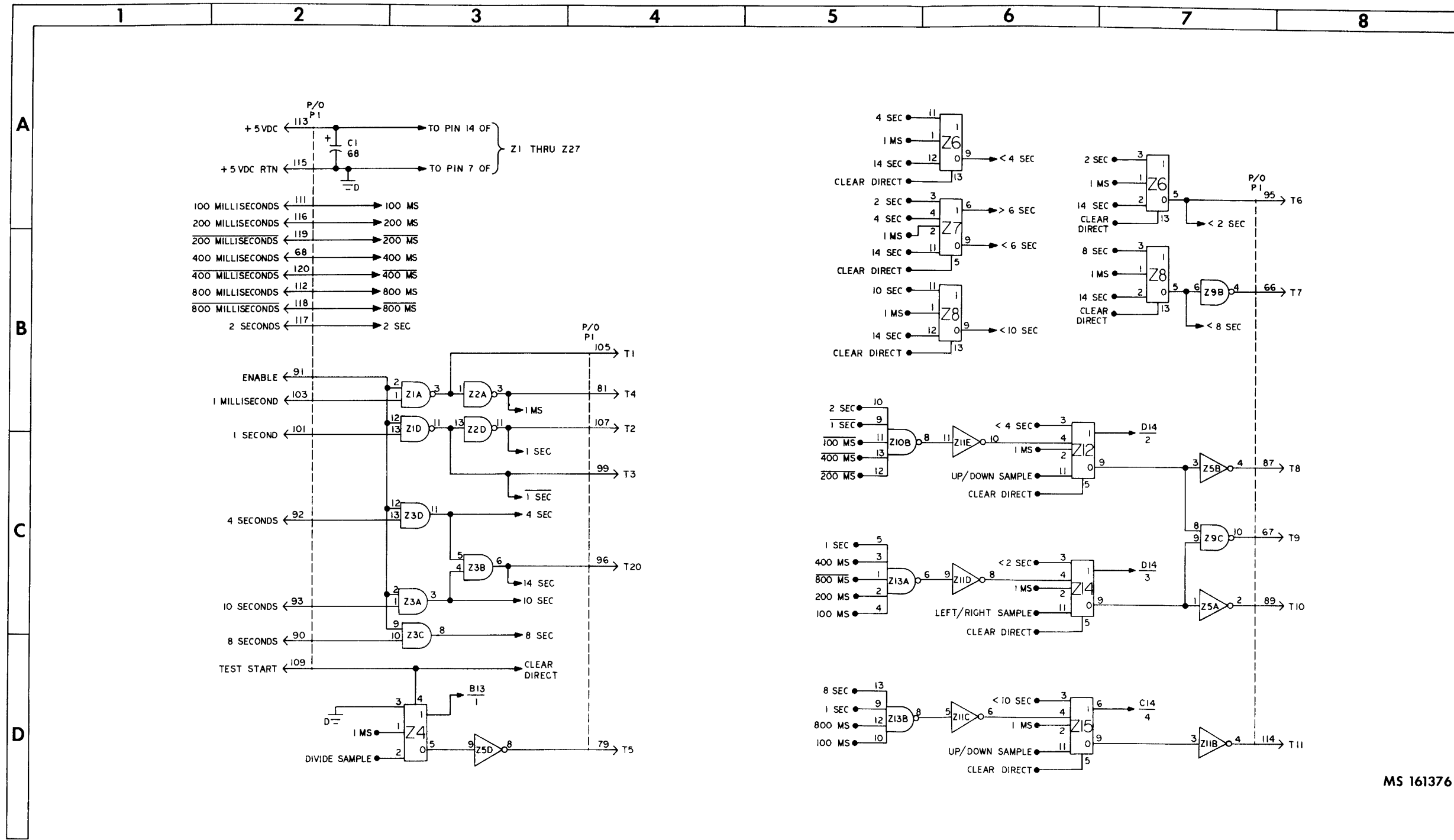


Figure 4-16. DMS-D card A15 (10275107)-schematic diagram (sheet 1 of 3)

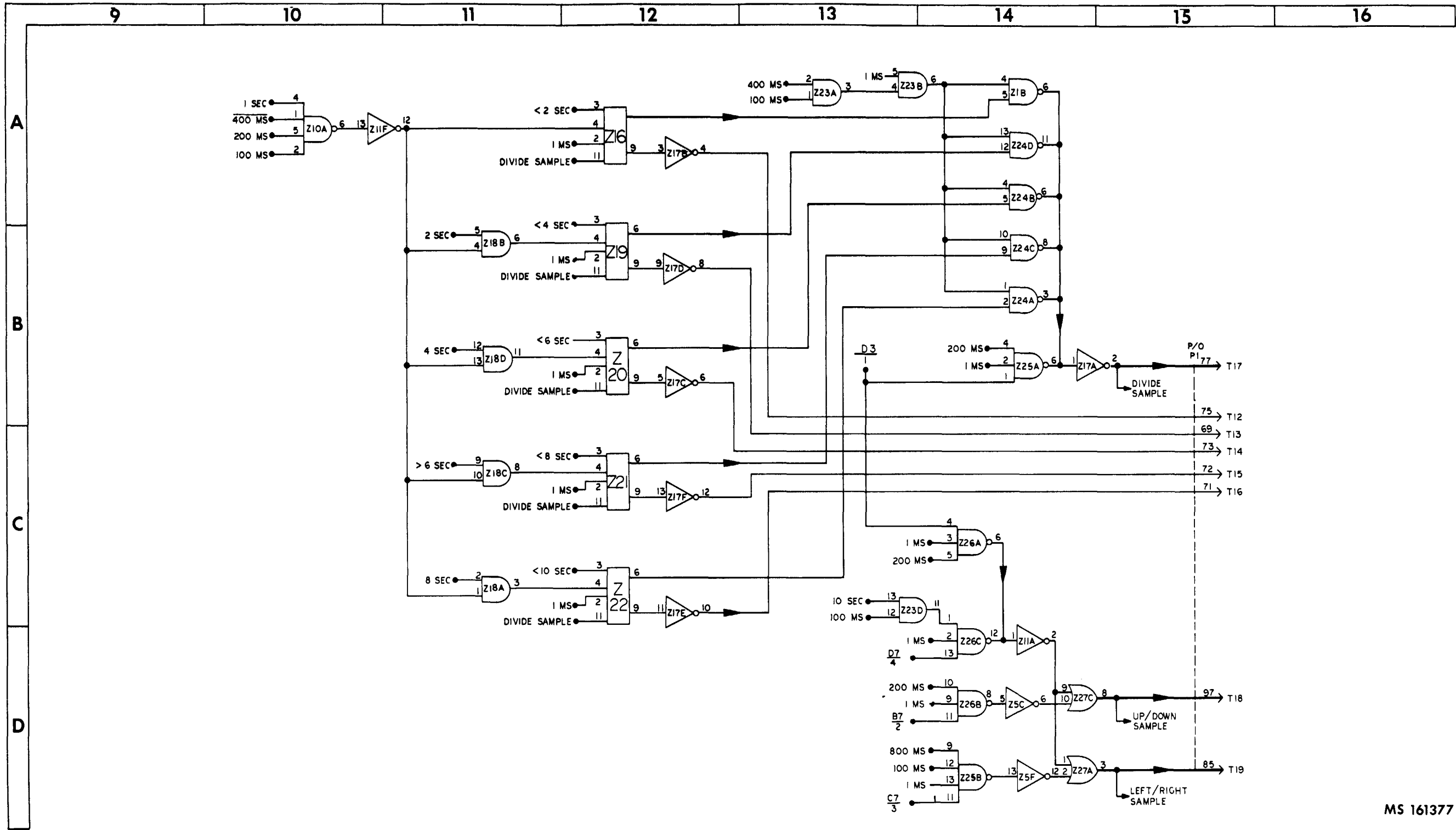


Figure 4-16. DMS-D card A15 (10275107)- schematic diagram (sheet 2 of 3)

MS 161377

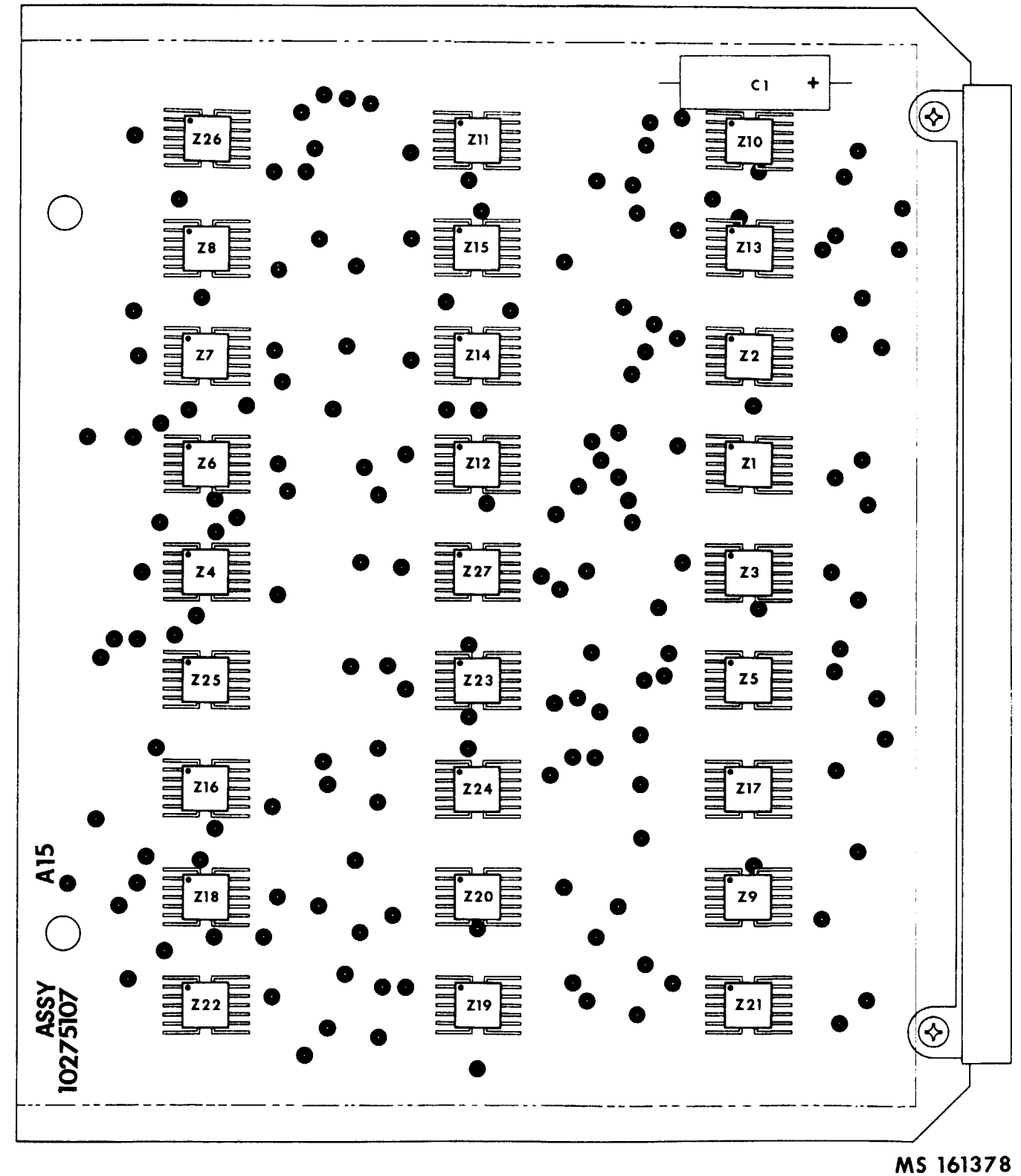


Figure 4-16. DMS-D card A15 (10275107)-schematic diagram (sheet 3 of 3)

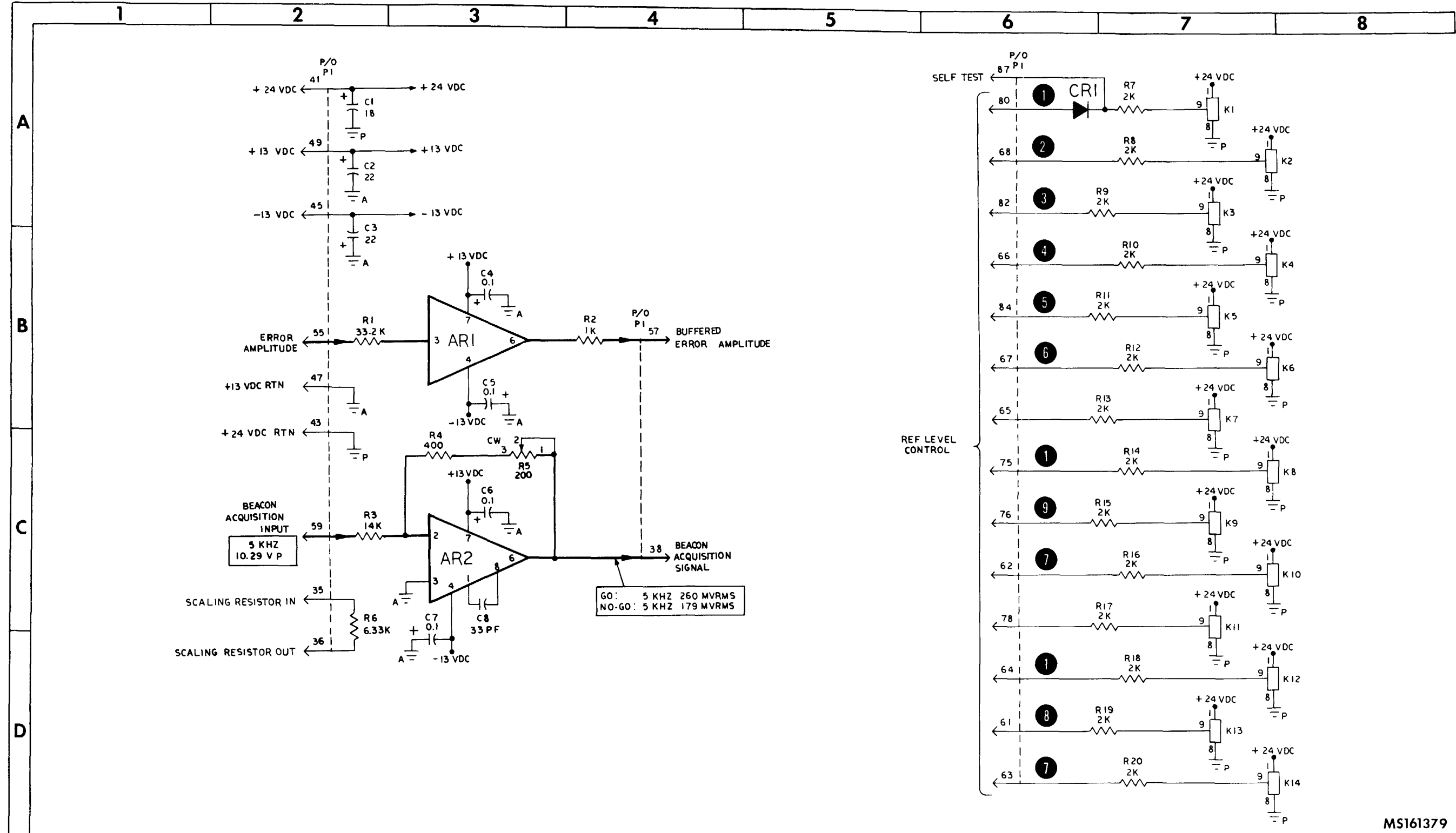


Figure 4-17. DMS-D card A16-schematic diagram (sheet 1 of 5)

MS161379

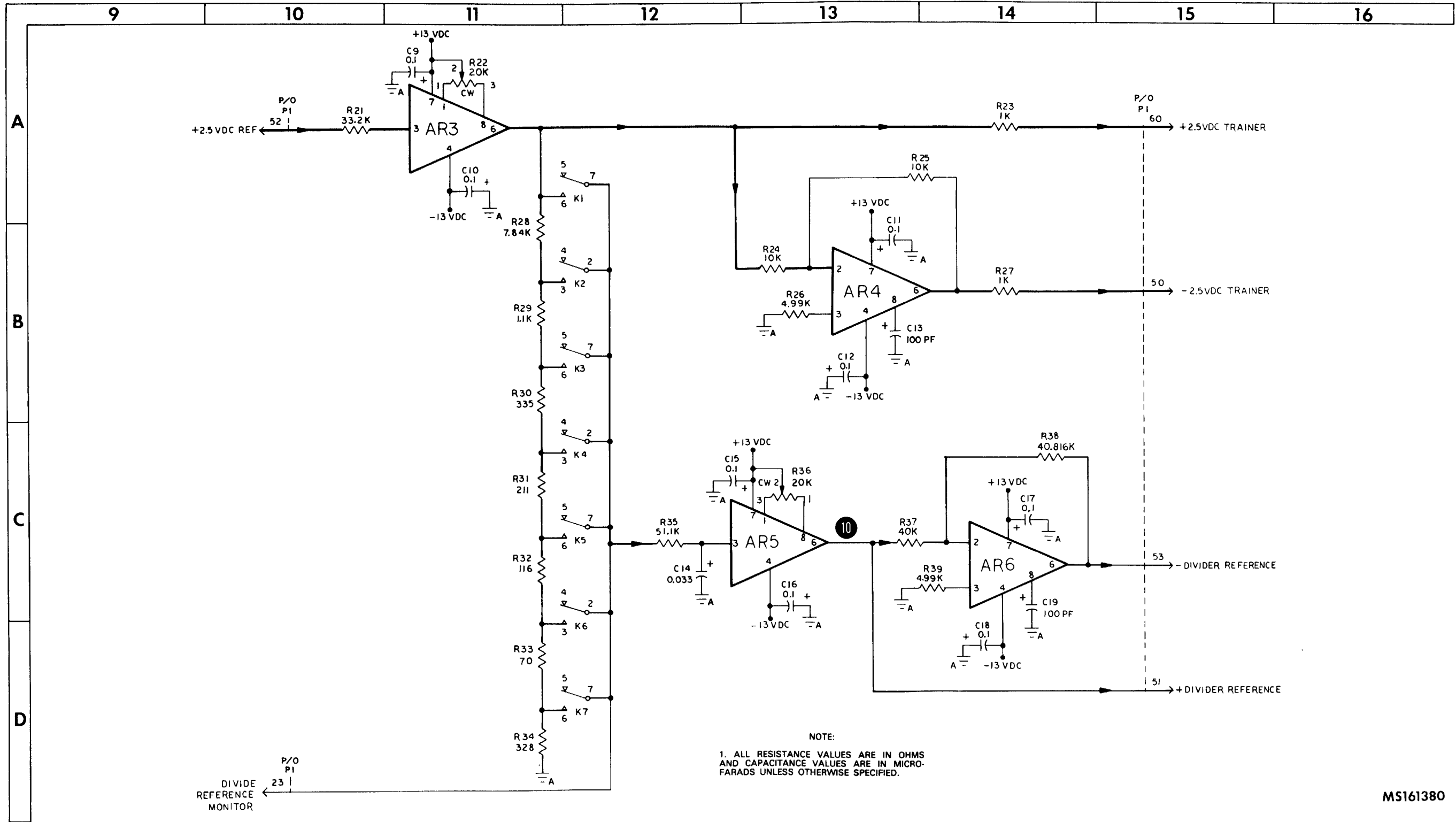
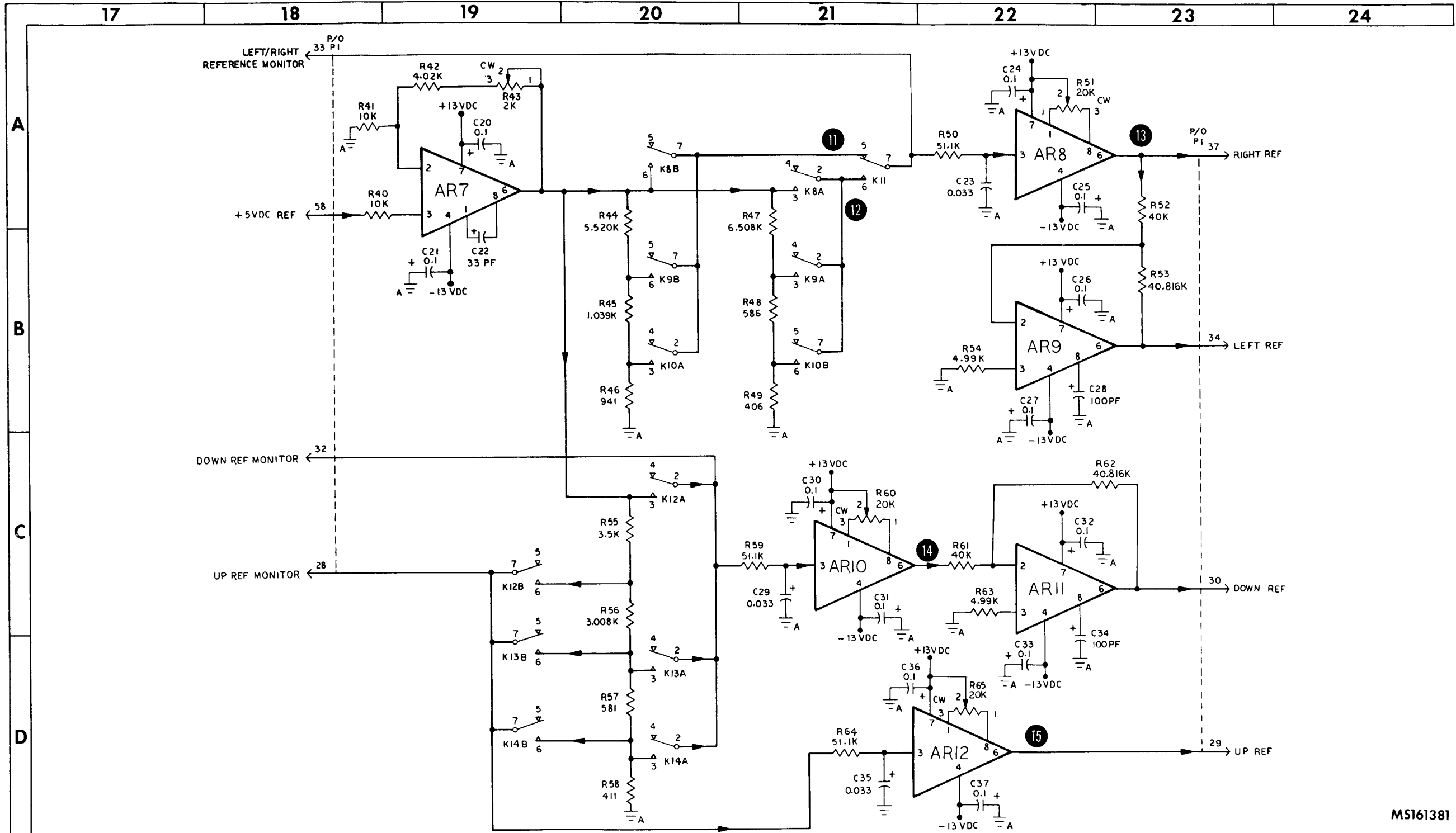


Figure 4-17. DMS-D card A16 schematic diagram (sheet 2 of 5)



MS161381

Figure 4-17. DMS-D card A16-schematic diagram (sheet 3 of 5)

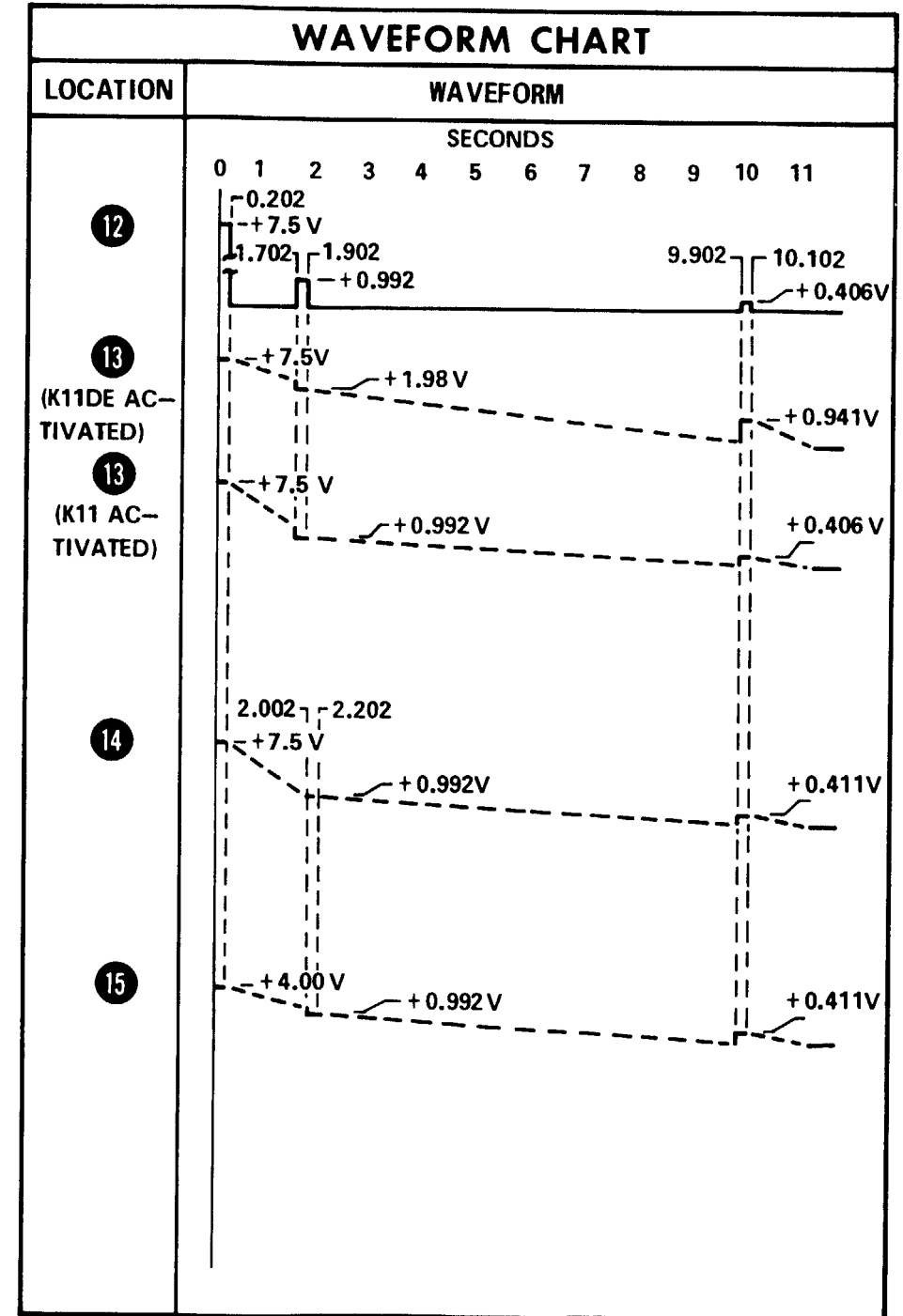
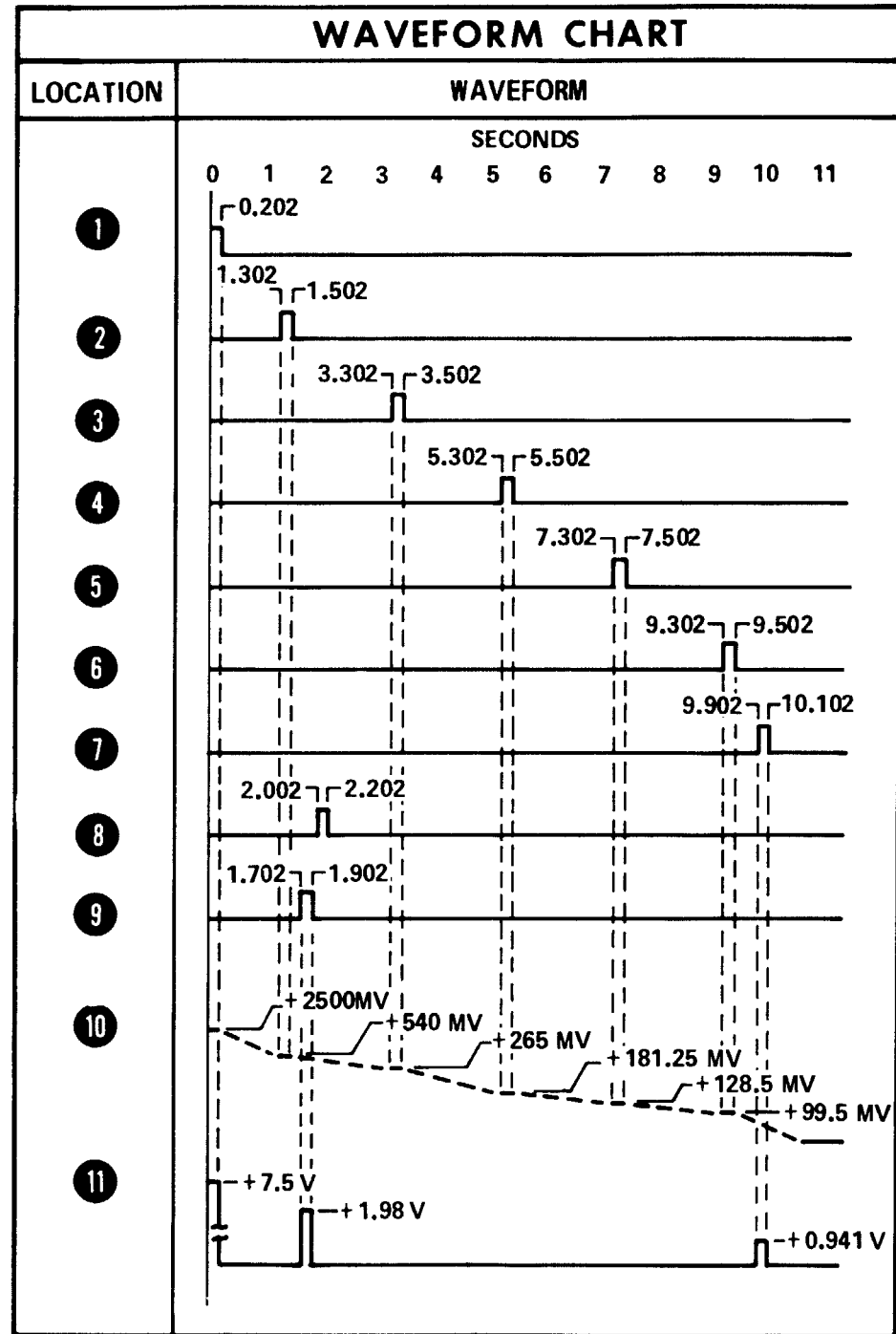
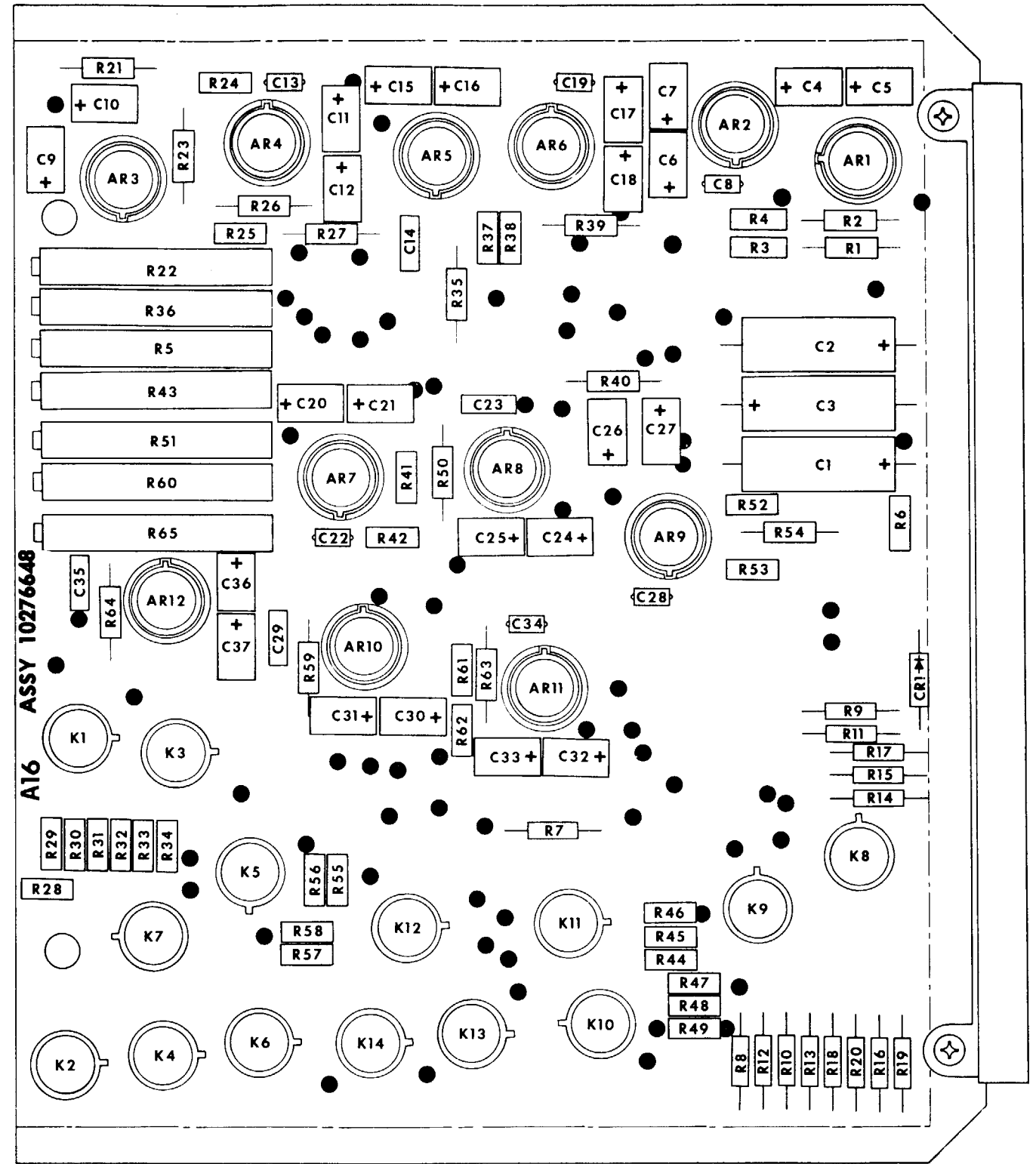


Figure 4-17. DMS-D card A16-schematic diagram (sheet 4 of 5)



MS161383

Figure 4-17. DMS-D card A16-schematic diagram (sheet 5 of 5)

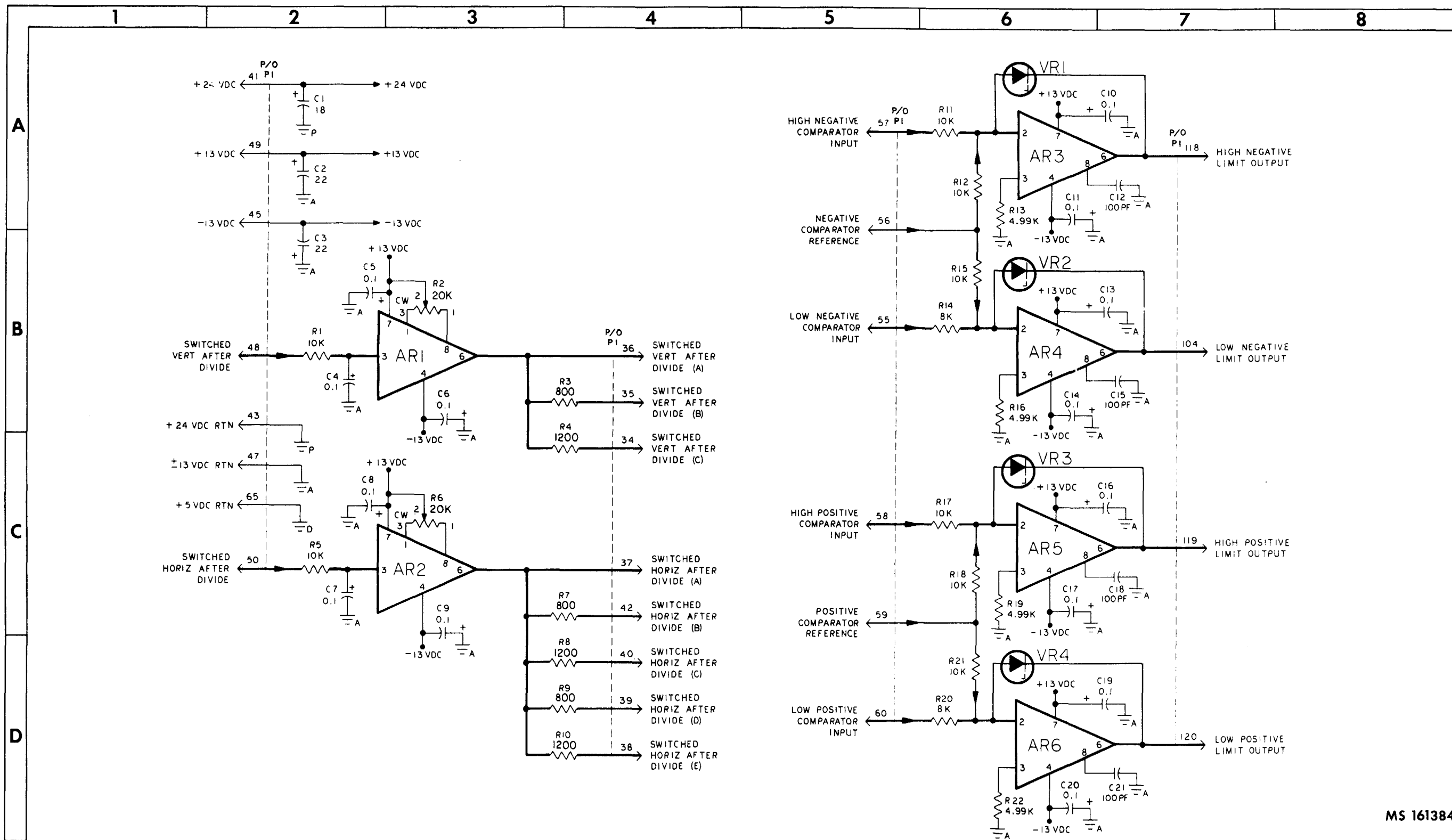


Figure 4-18. DMS-D card A17 (10276474)-schematic diagram (sheet 1 of 4)

MS 161384

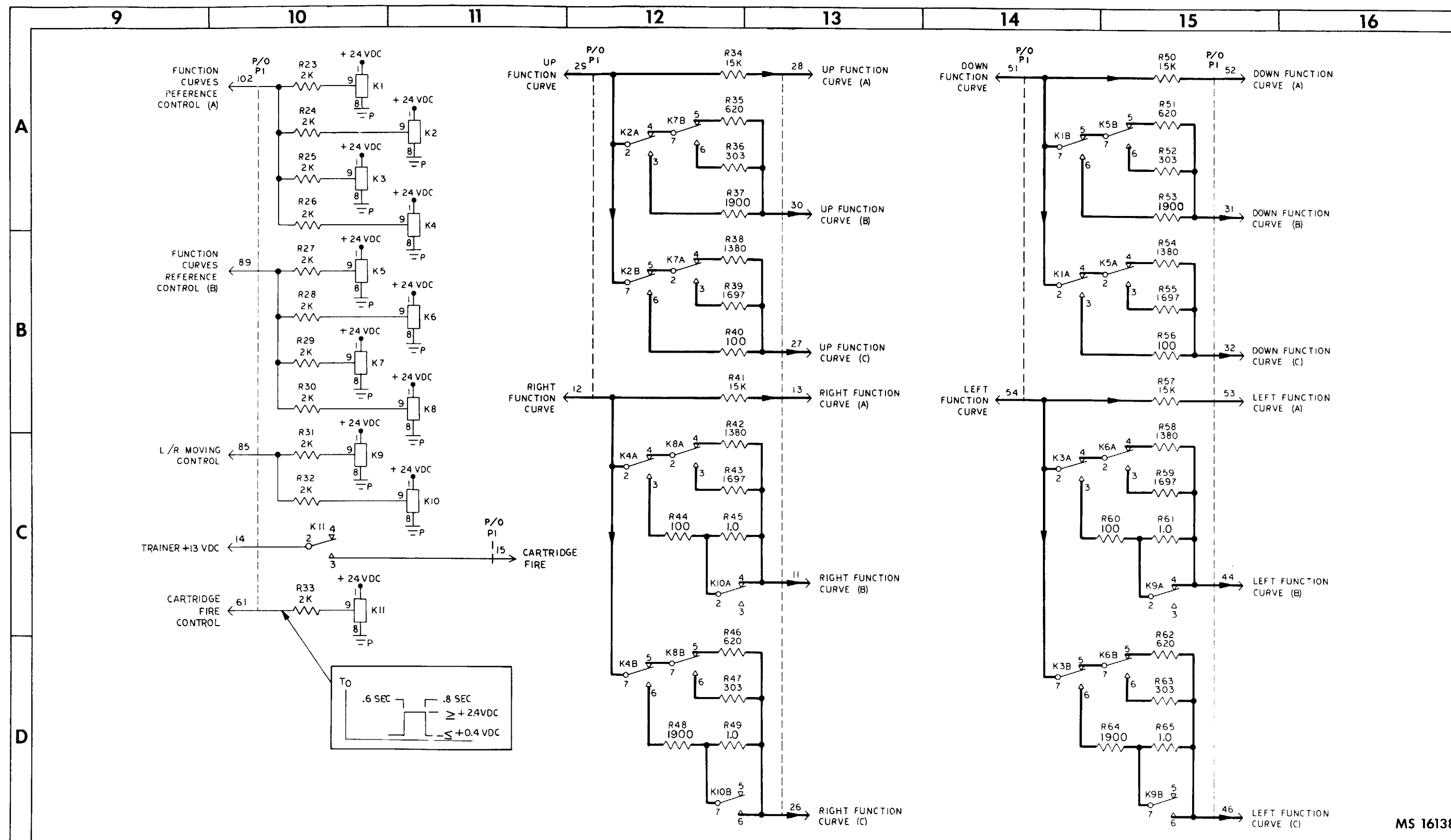
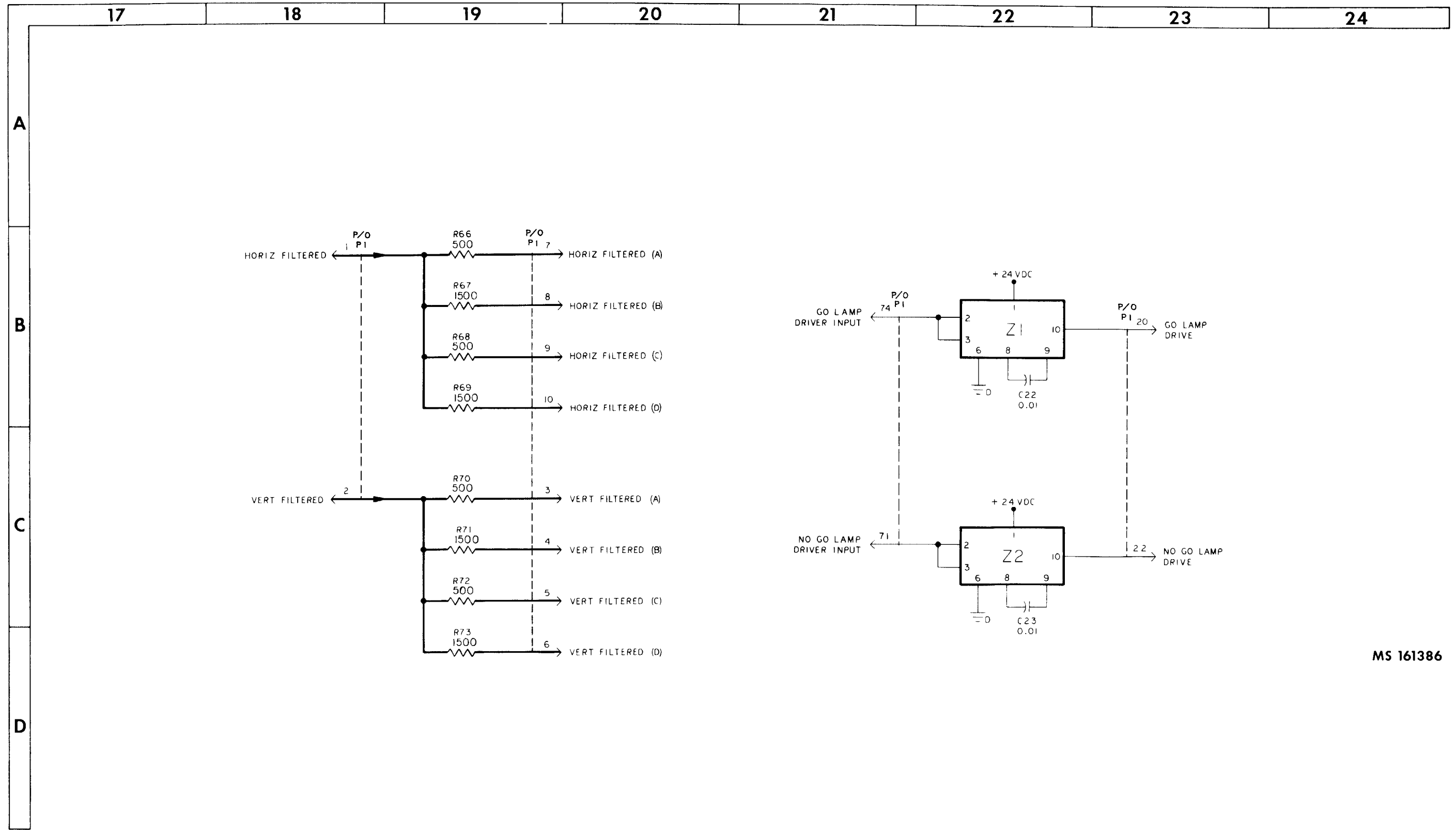
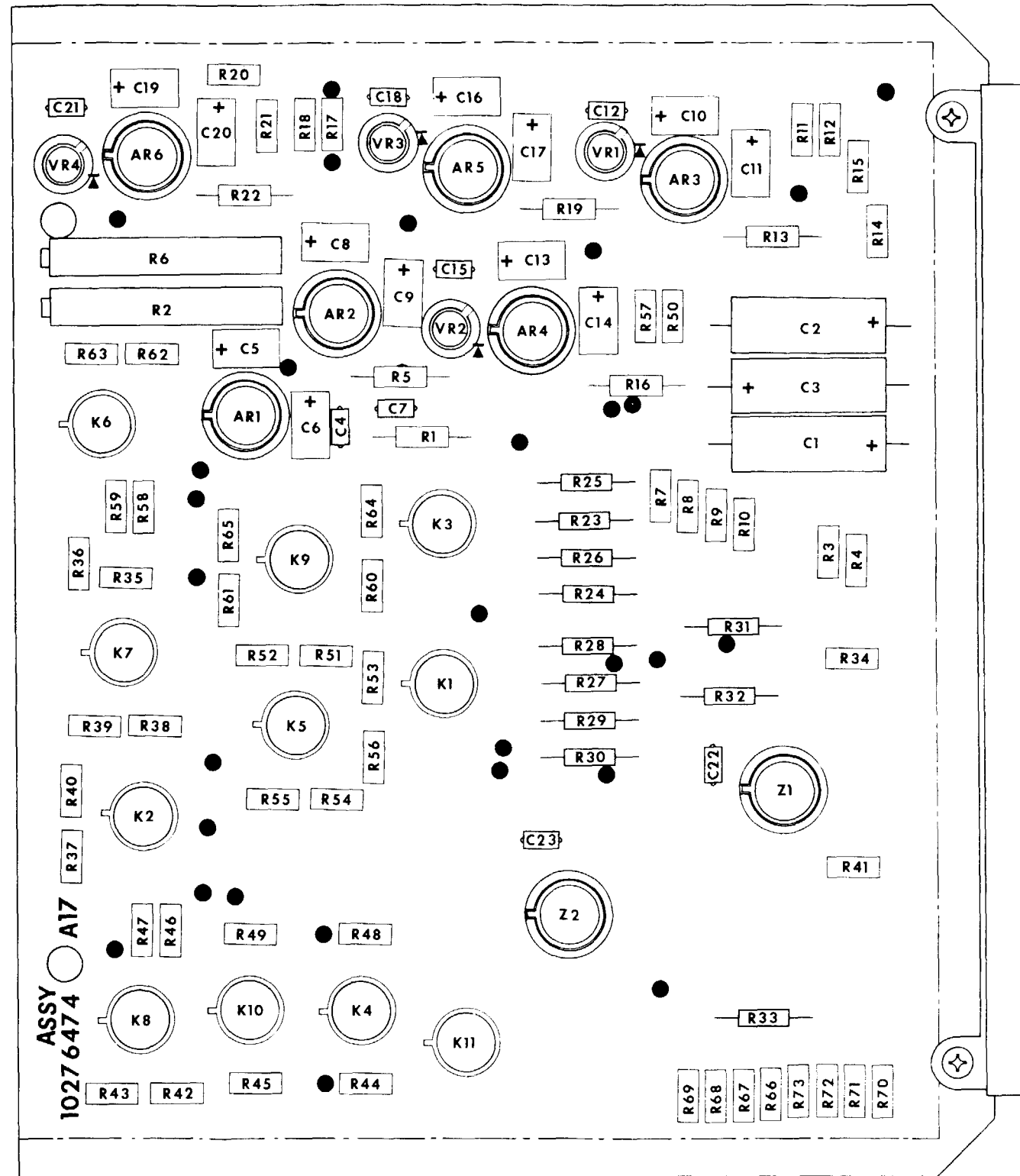


Figure 4-18. DMS-D card A17(10276474) - schematic diagram (sheet 2 of 4)



MS 161386

Figure 4-18. DMS-D card A17 (10276474) - schematic diagram (sheet 3 of 4)



MS 161387

Figure 4-18. DMS-D card A17 - schematic diagram (sheet 4 of 4)

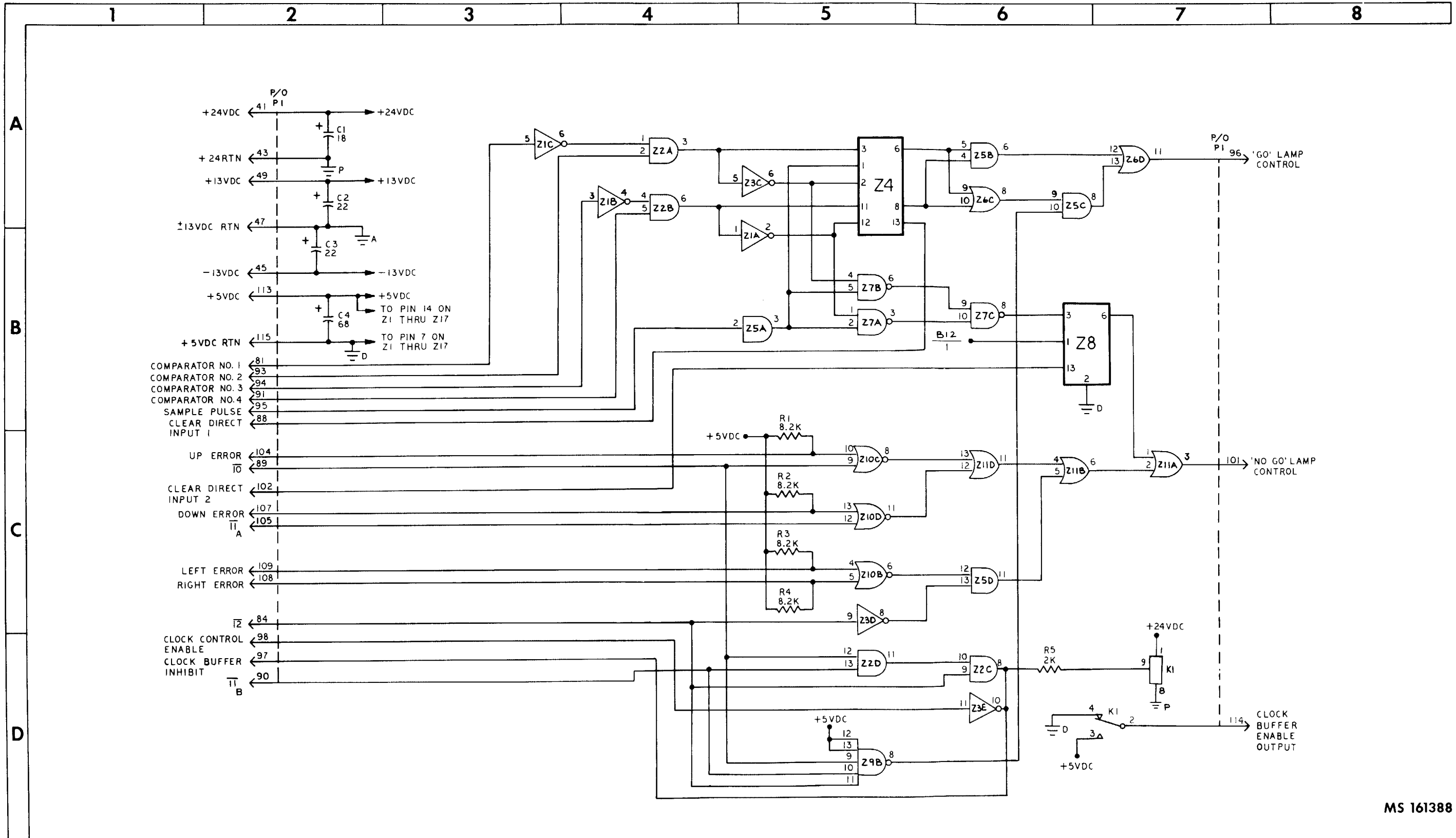
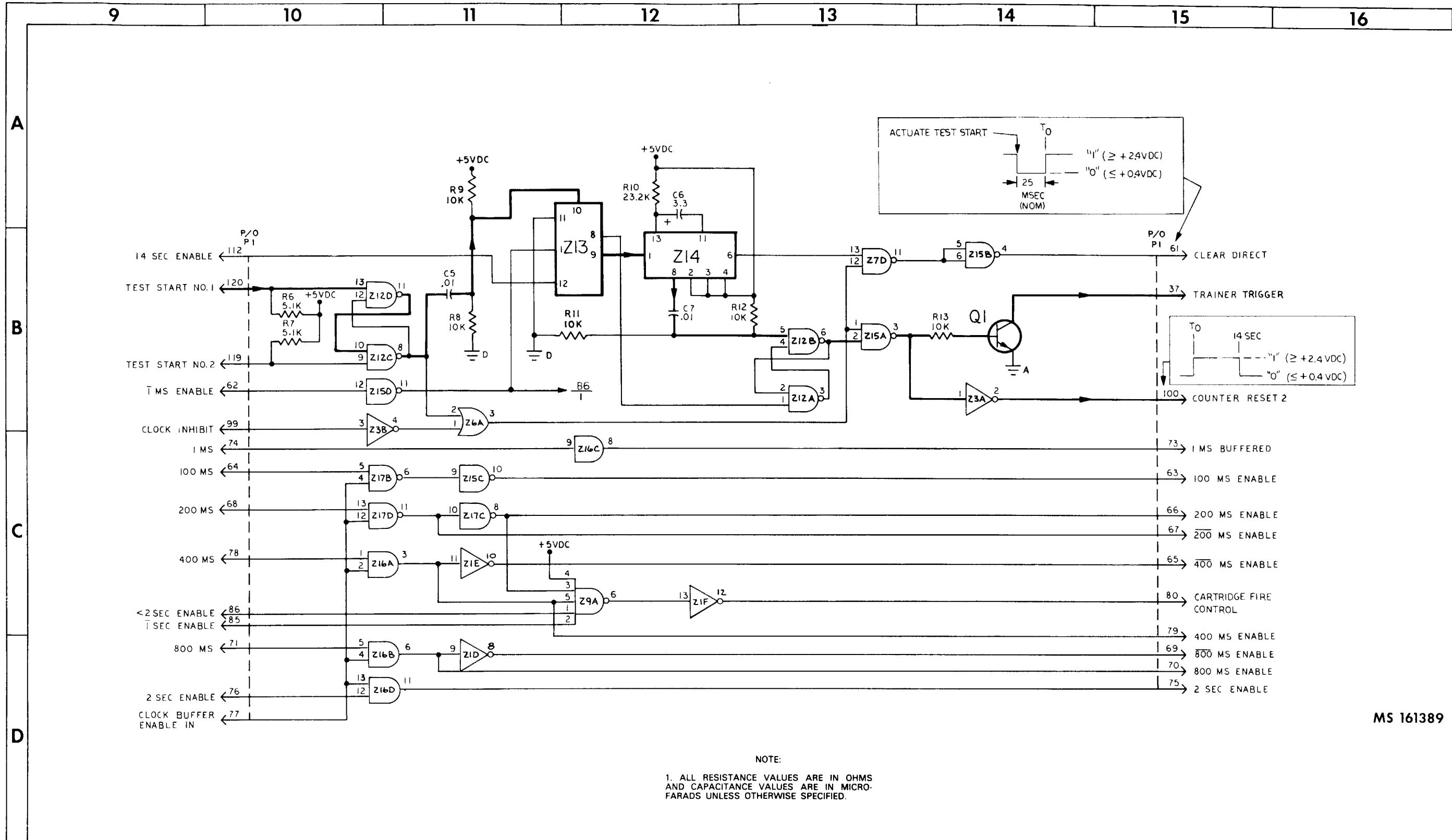


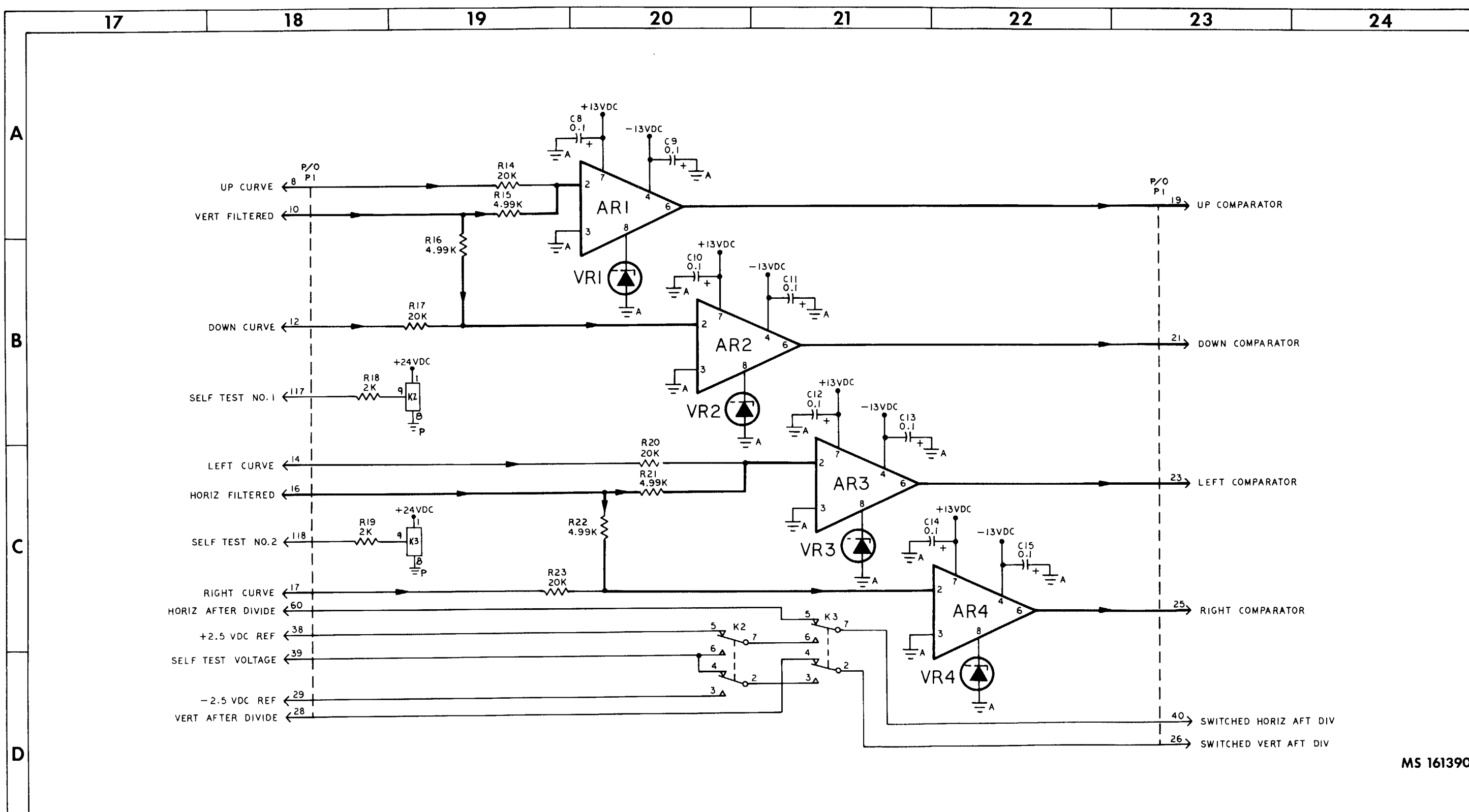
Figure 4-19. DMS-D card A18 (10275116) - schematic diagram (sheet 1 of 4)



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

MS 161389

Figure 4-19. DMS-D card A18 schematic diagram (sheet 2 of 4)



MS 161390

Figure 4-19. DMS-D card A18 (10275116) - schematic diagram (sheet 3 of 4)

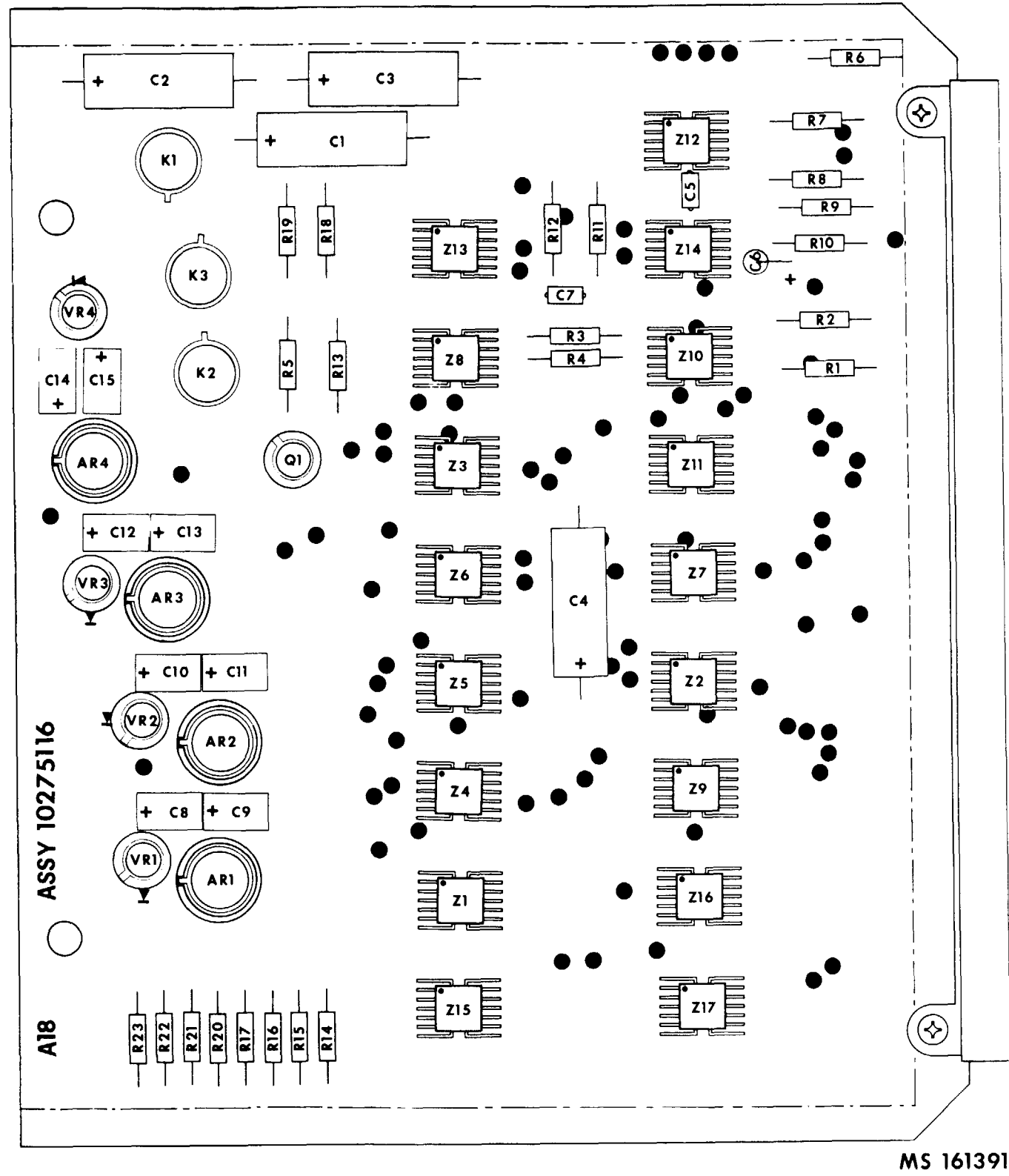


Figure 4-19. DMS-D card A18 (10275116) - schematic diagram (sheet 4 of 4)

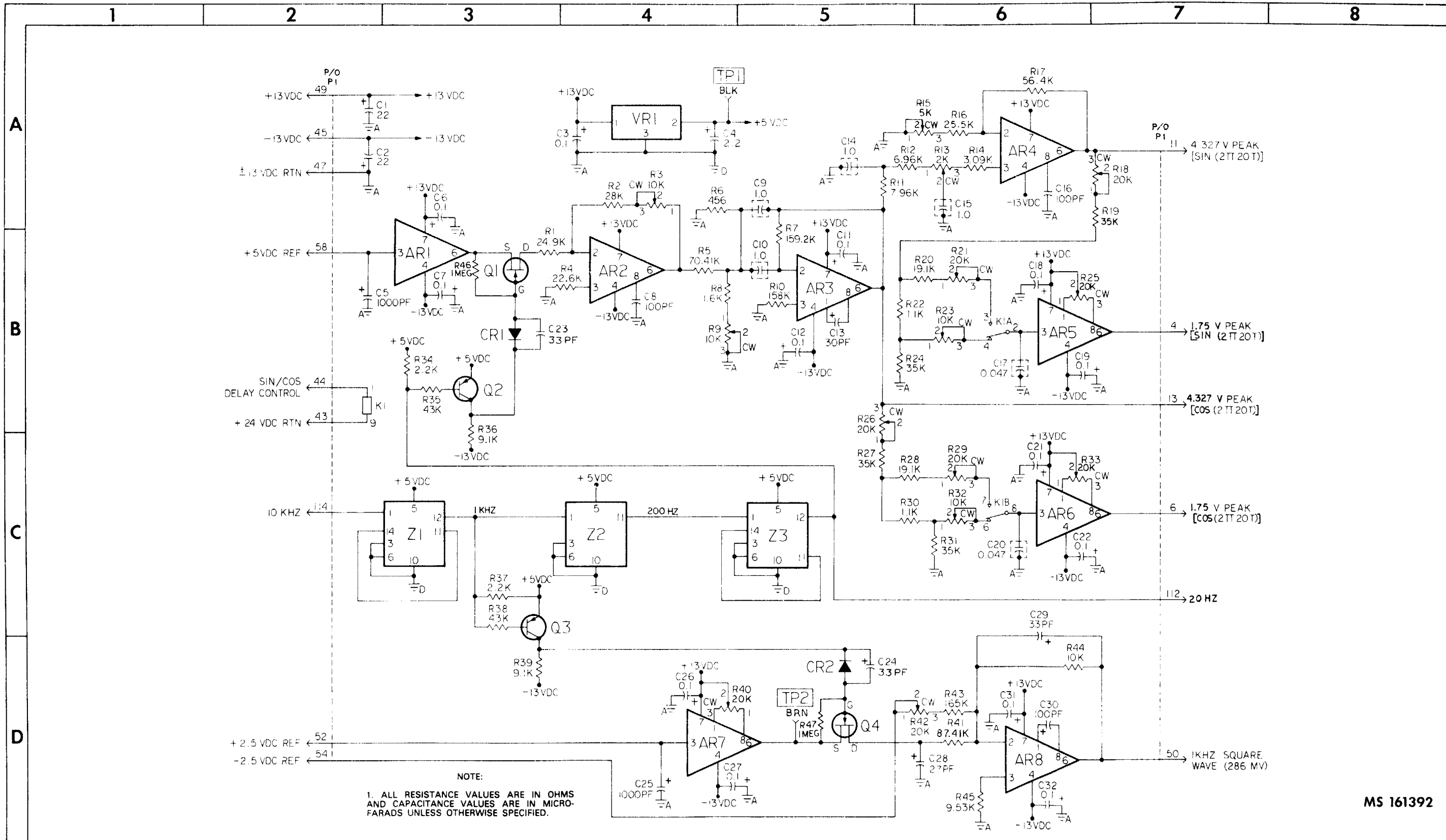


Figure 4-20. DMS-D card A19 schematic diagram (sheet 1 of 2)

MS 161392

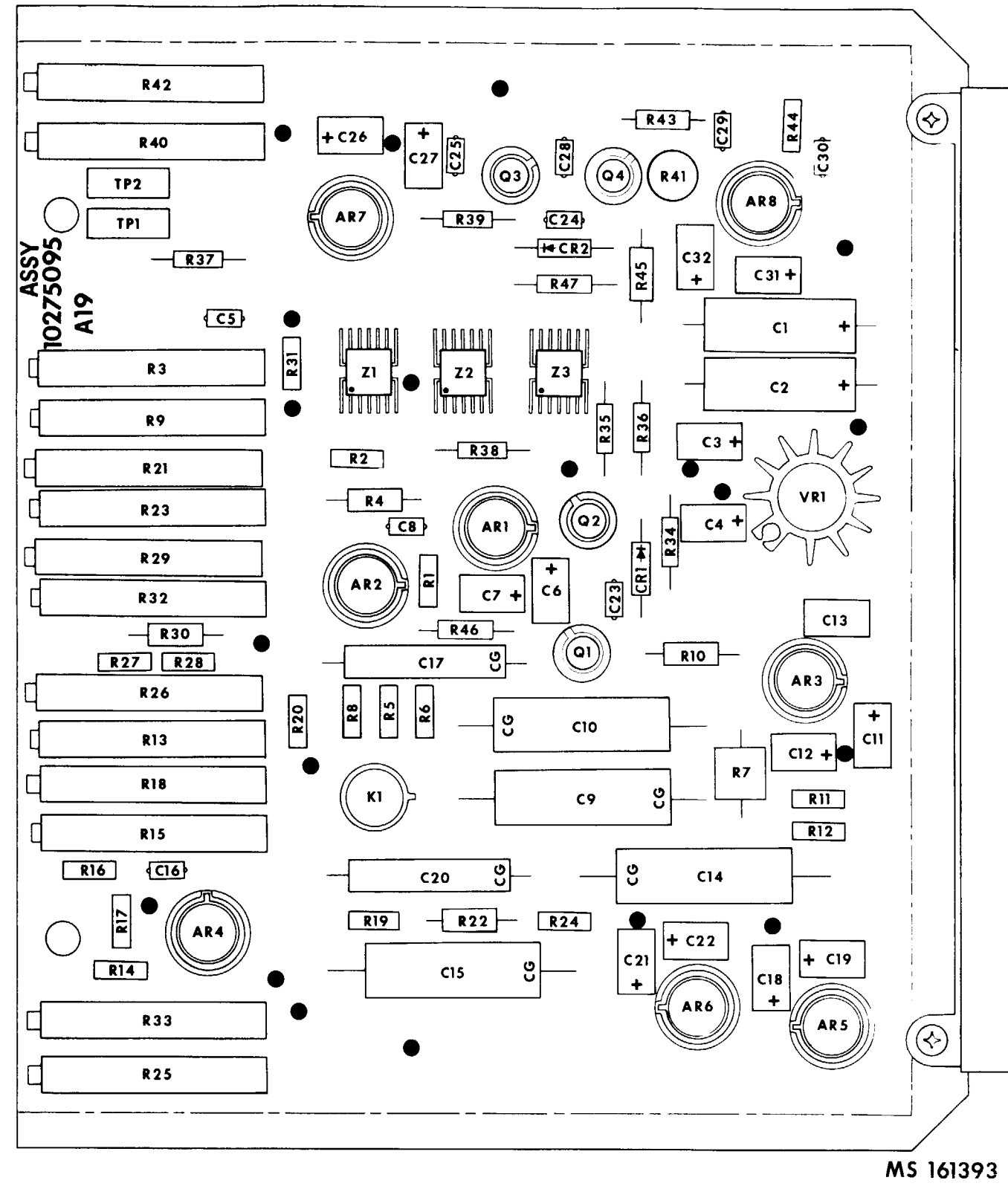


Figure 4-20. DMS-D card A19 schematic diagram (sheet 2 of 2)

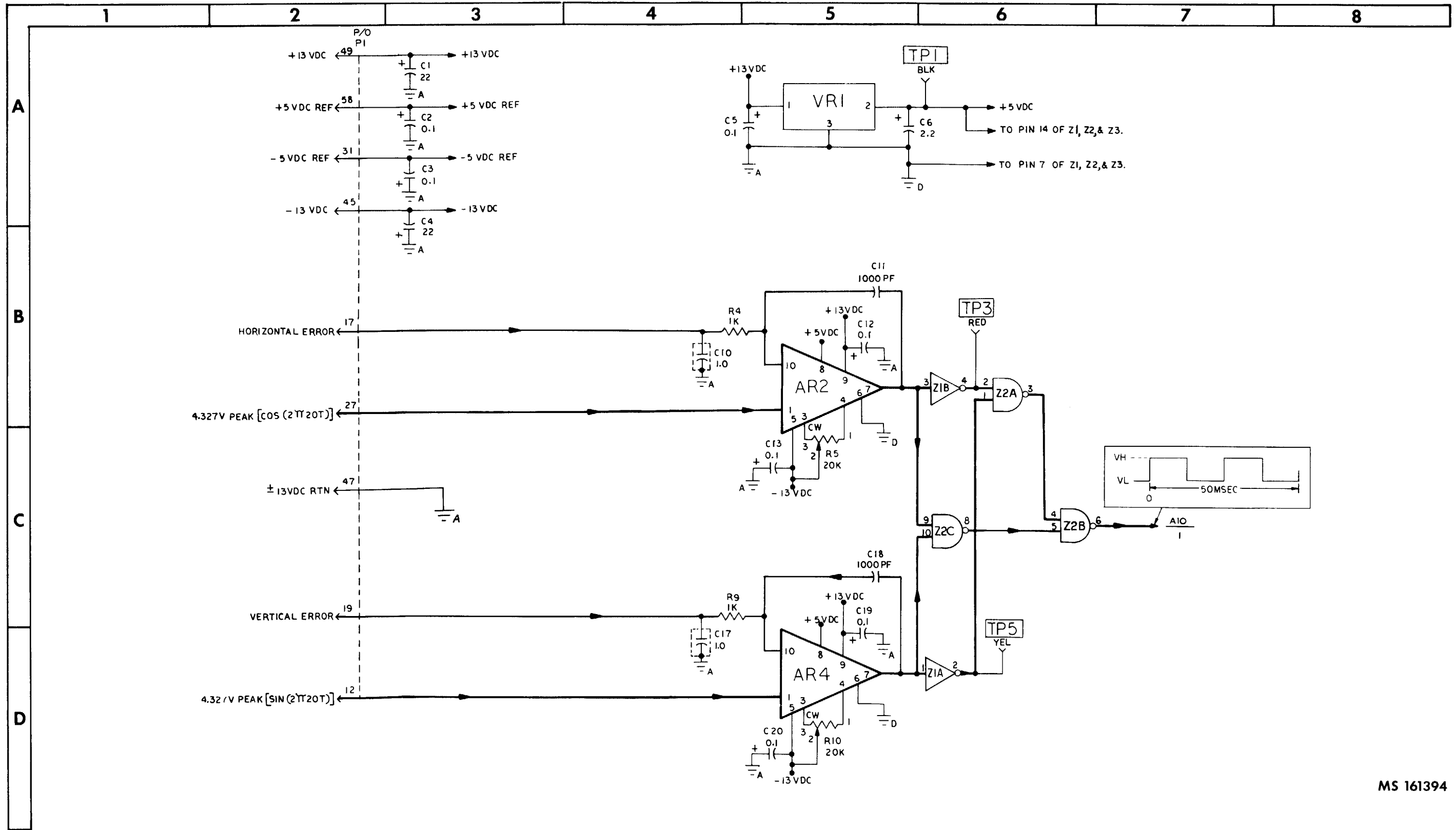


Figure 4-21. DMS-D card A20 (102750981 - schematic diagram (sheet 1 of 3)

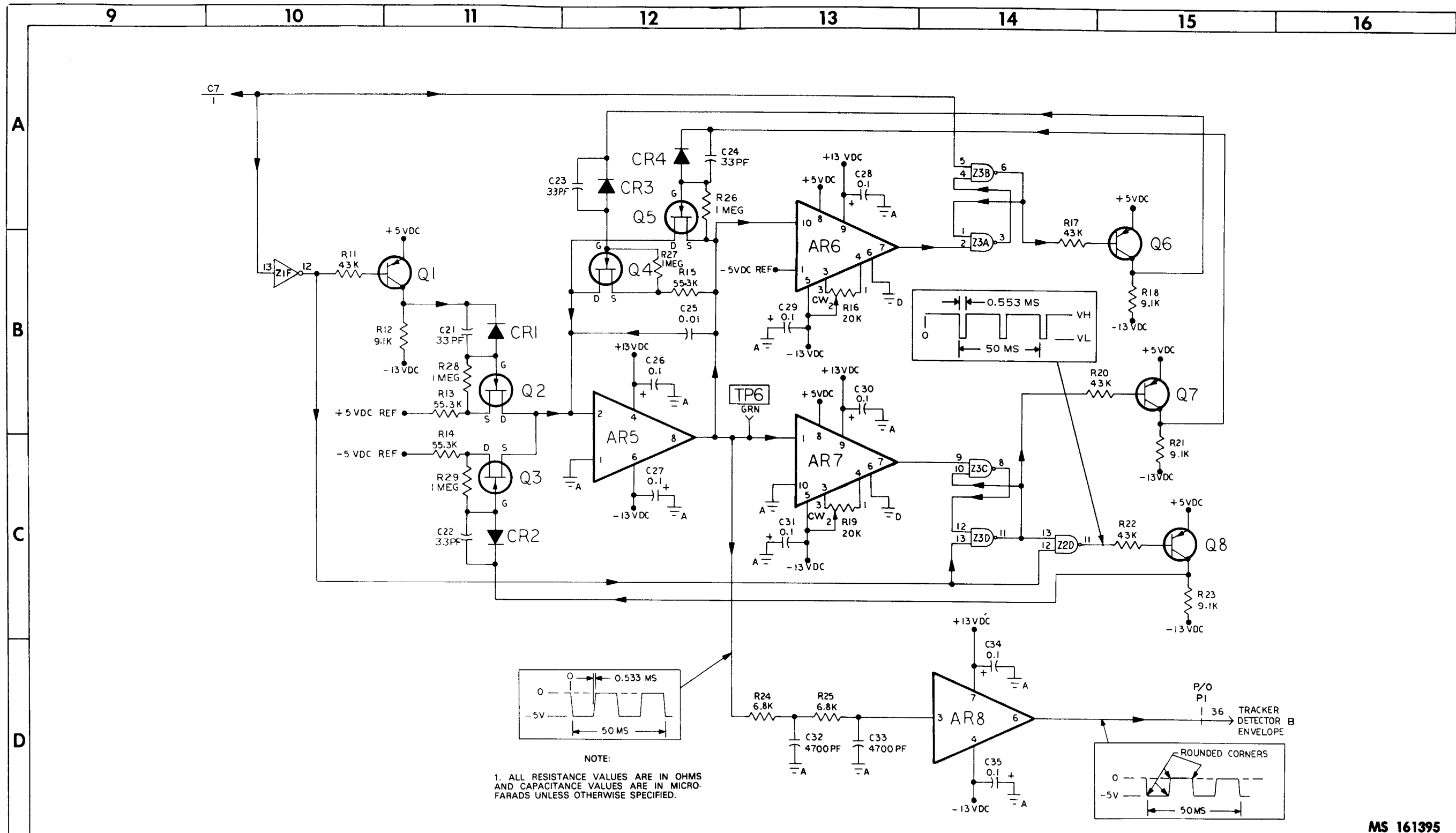
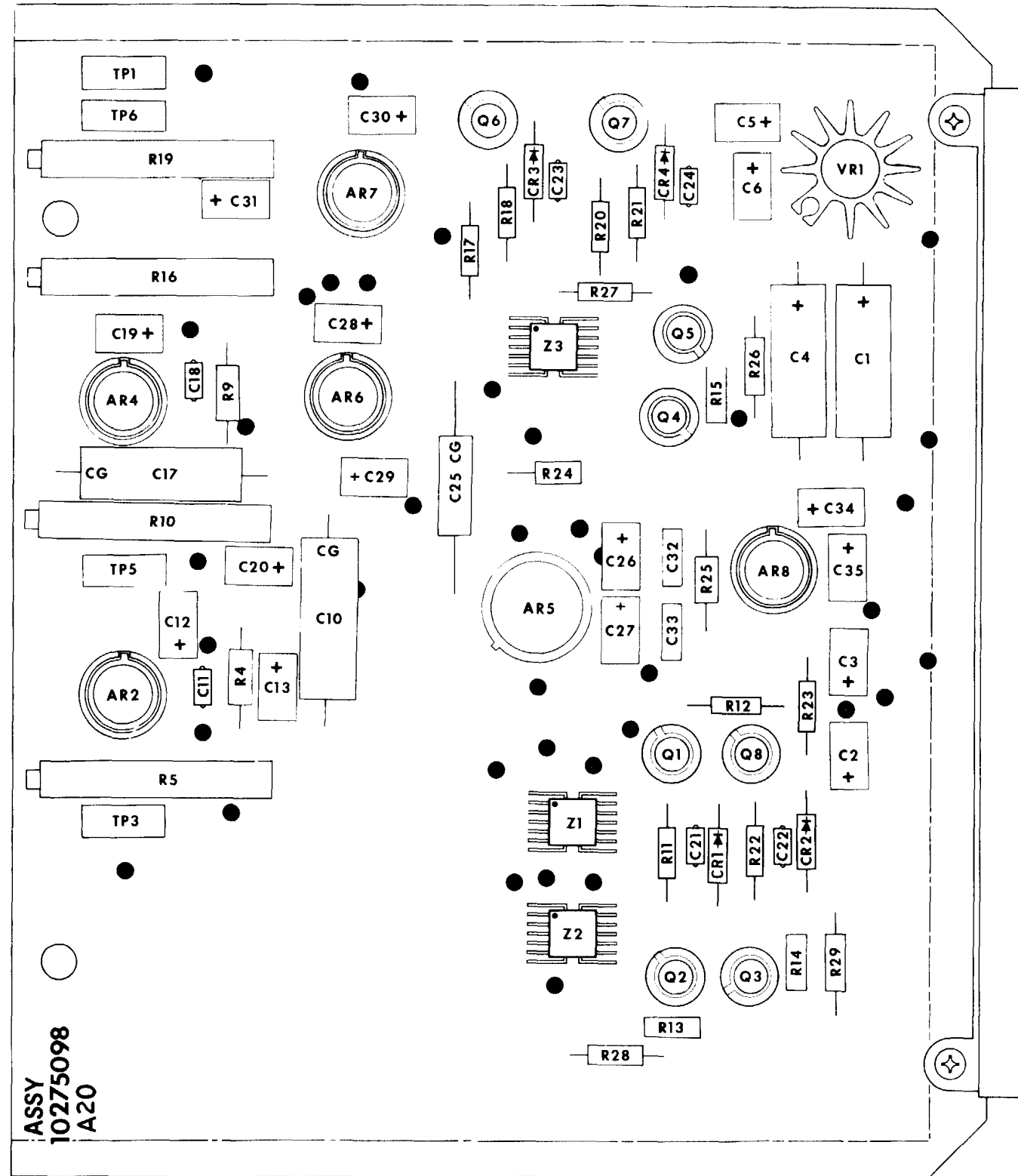


Figure 4-21. DMS-D card A20 schematic diagram (sheet 2 of 3)
 4-97



MS 161396

Figure 4-21. DMS-D card A20 (10275098)-
schematic diagram (sheet 3 of 3)
4-98

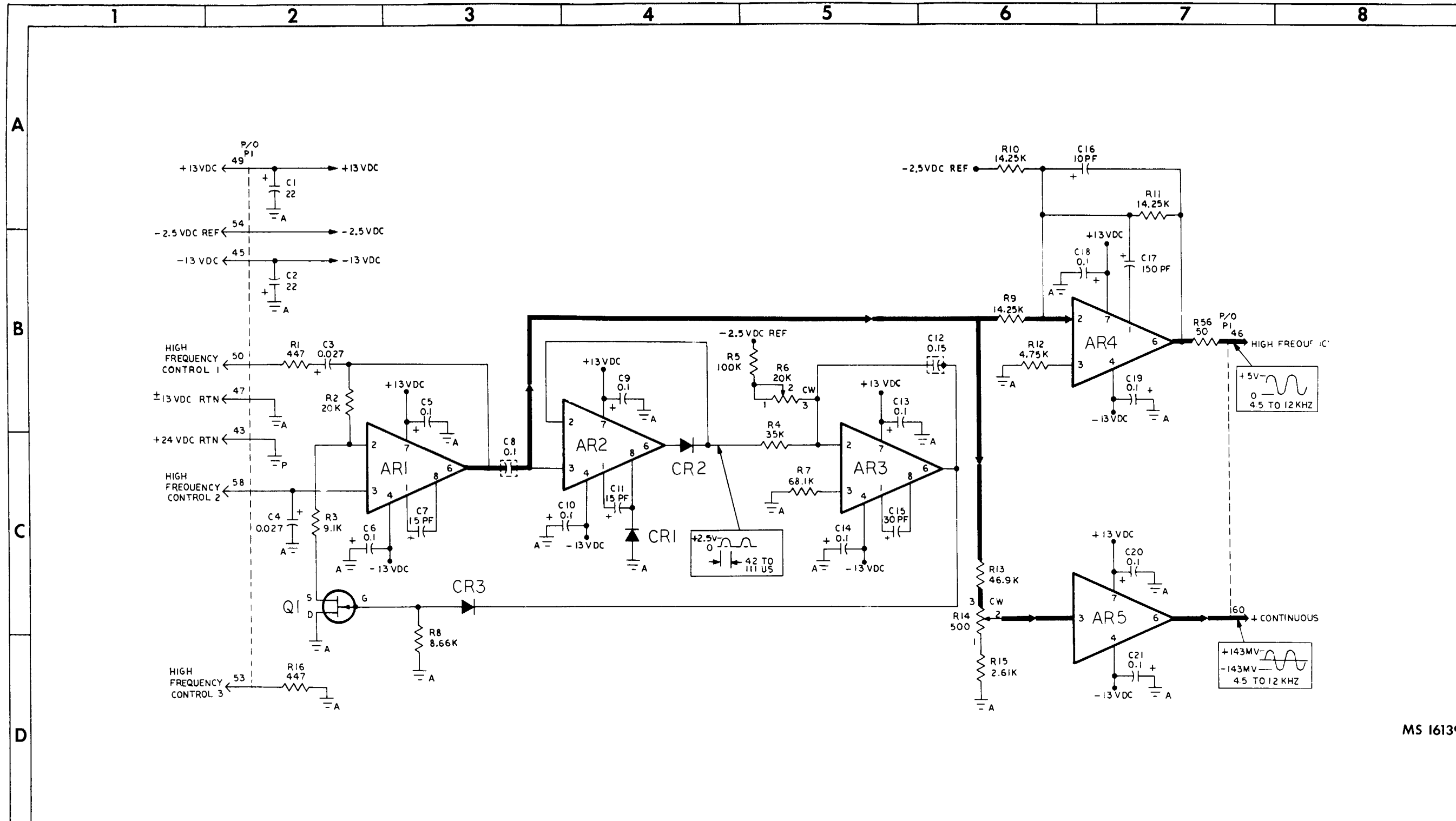
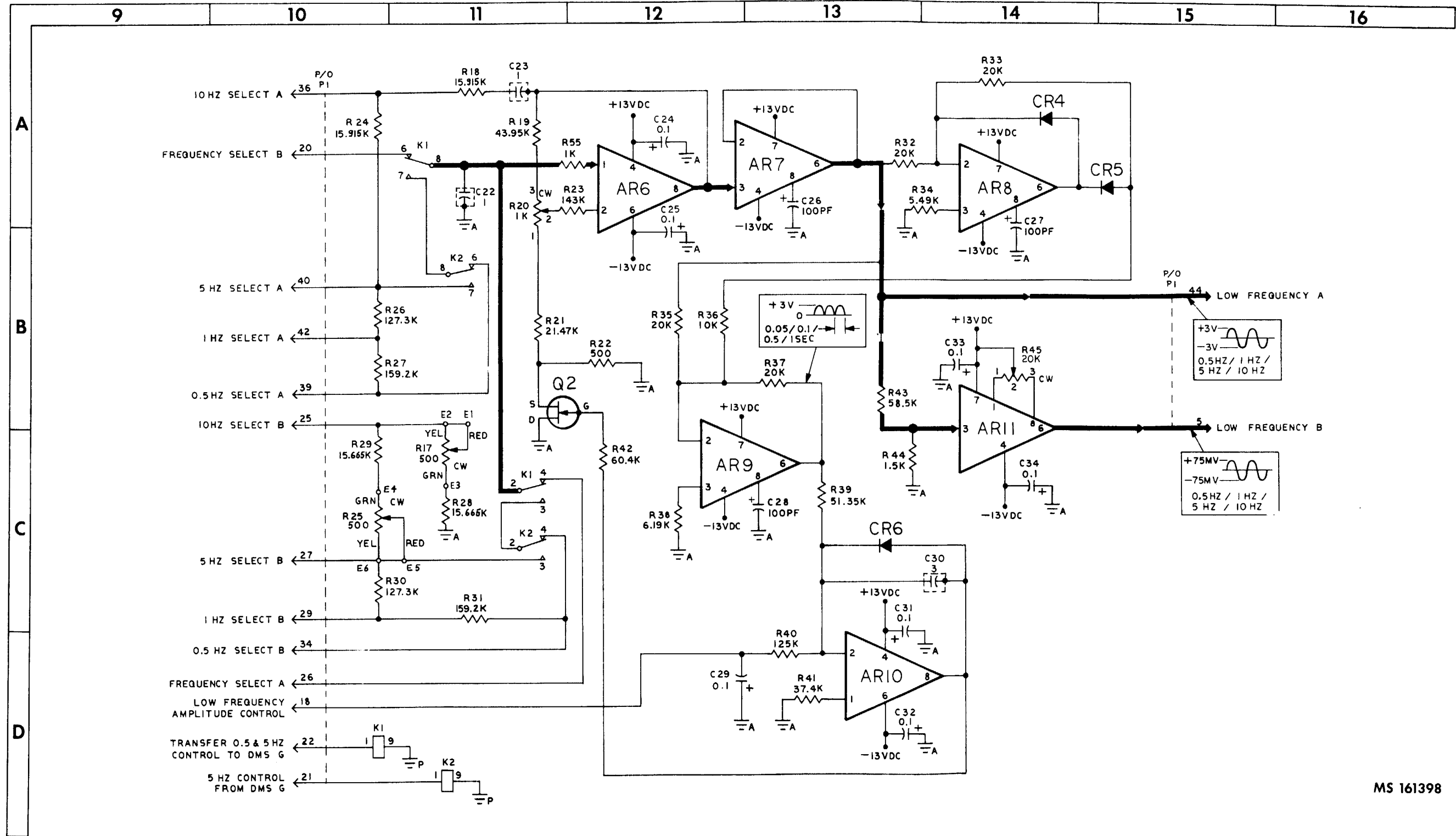


Figure 4-22. DMS-D card A21 (10275101)-
schematic diagram (sheet 1 of 4)

MS 161397



MS 161398

Figure 4-22. DMS-D card A21-
schematic diagram(sheet 2 of 4)
4-100

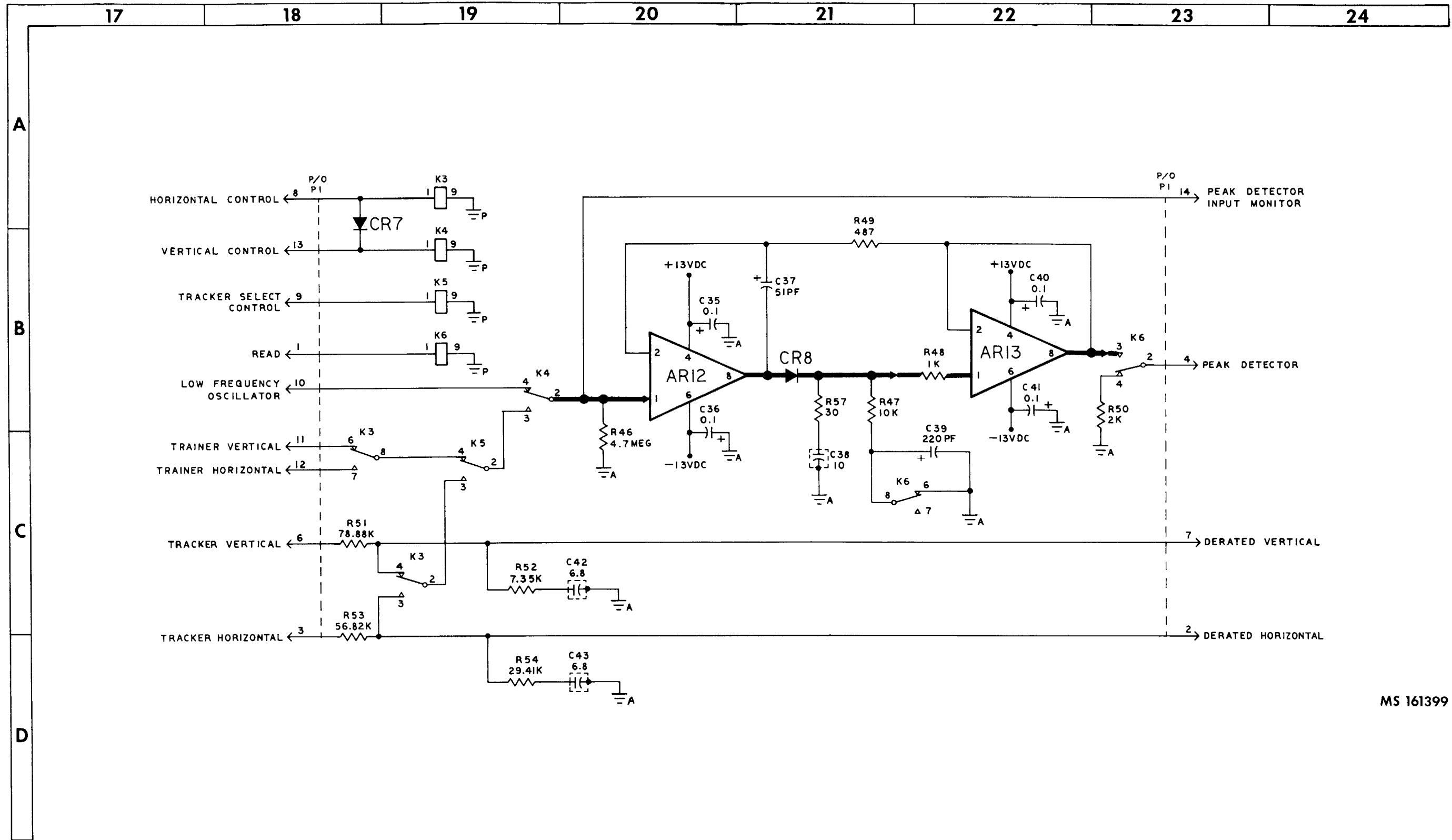
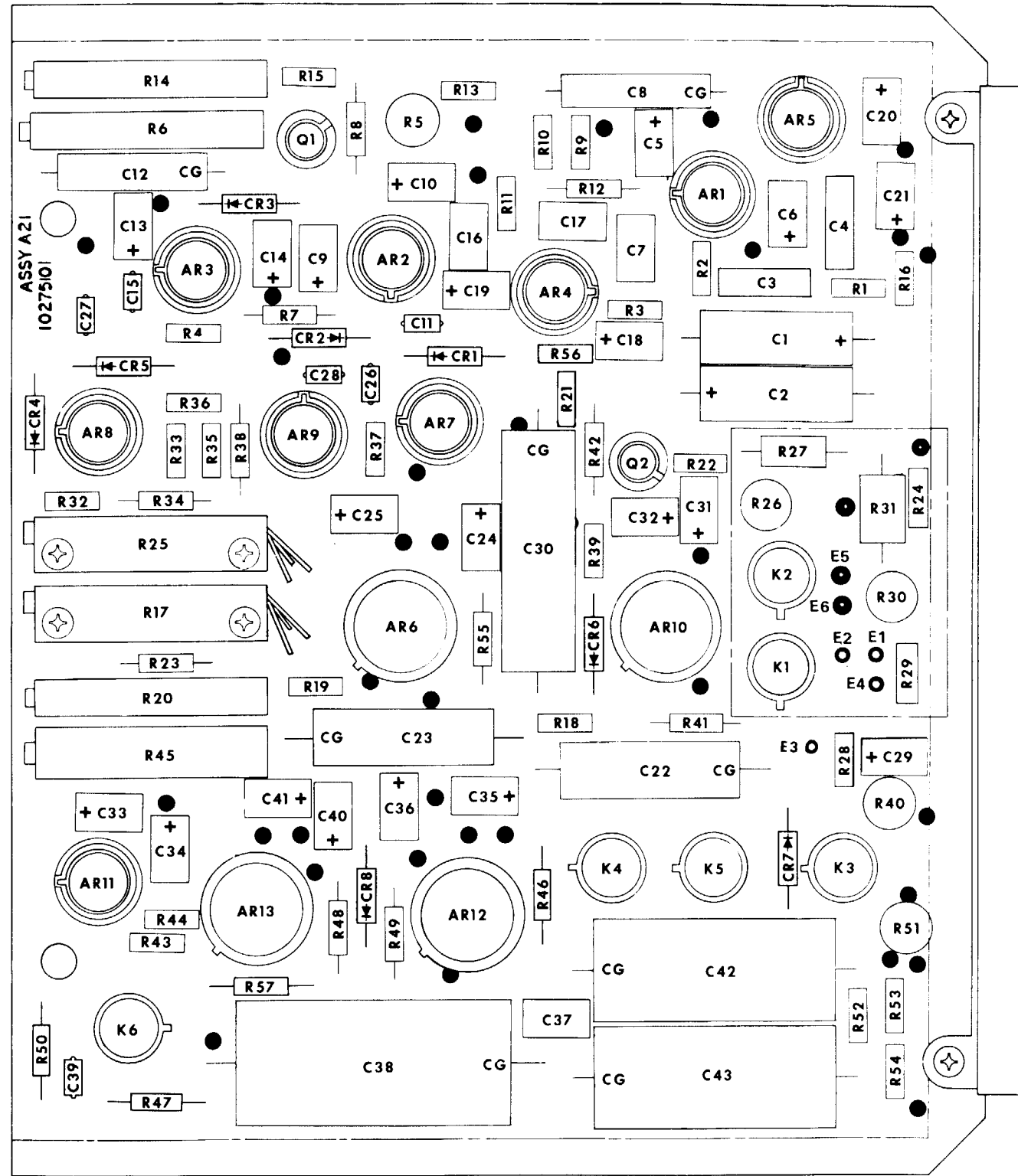


Figure 4-22. DMS-D card A21 (10275101)-
schematic diagram (sheet 3 of 4)



MS 161400

Figure 4-22. DMS-D card A21
schematic diagram (sheet 4 of 4)
4-102

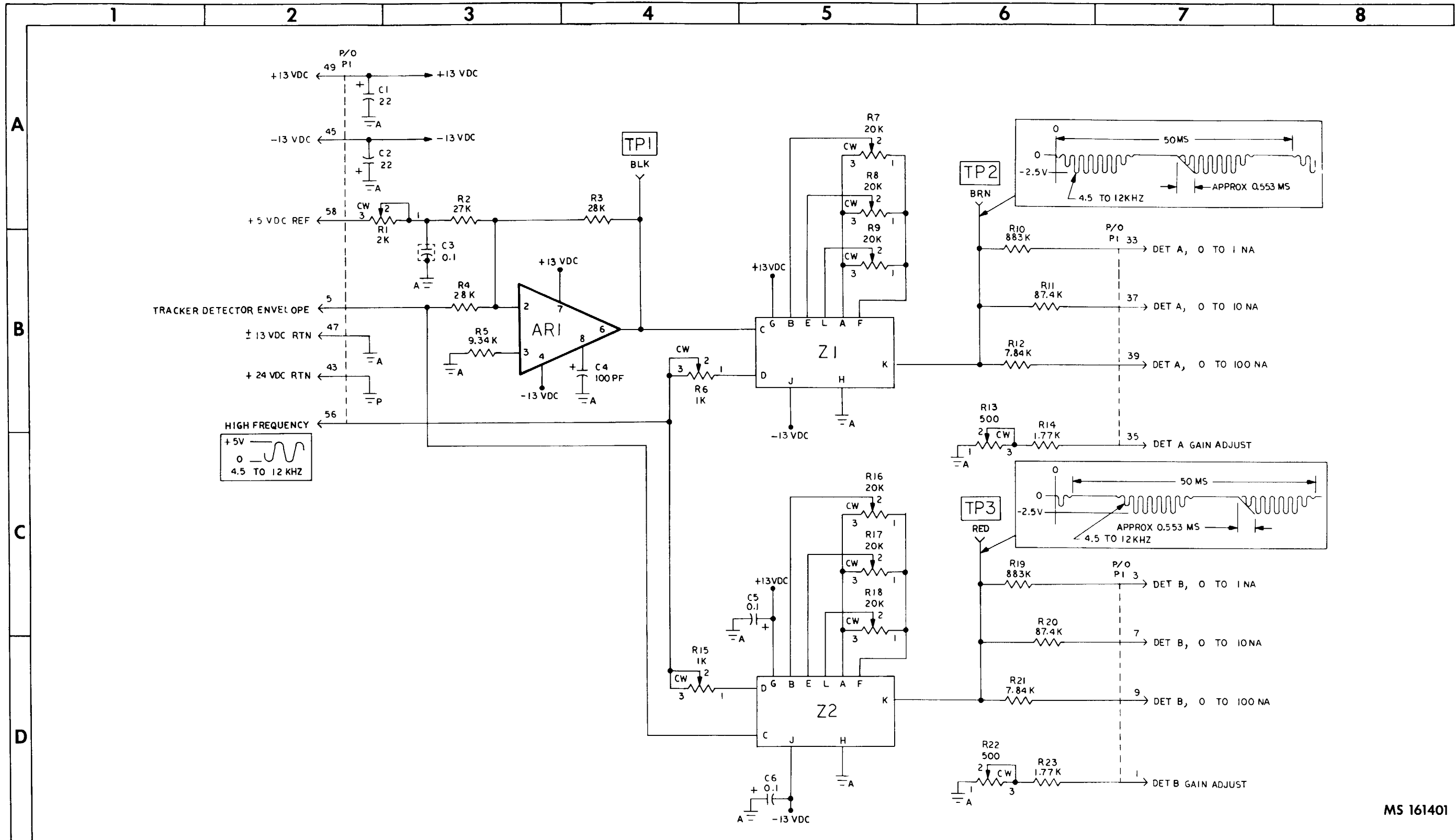


Figure 4-23. DMS-D card A22 (10275104)-
schematic diagram (sheet 1 of 3)

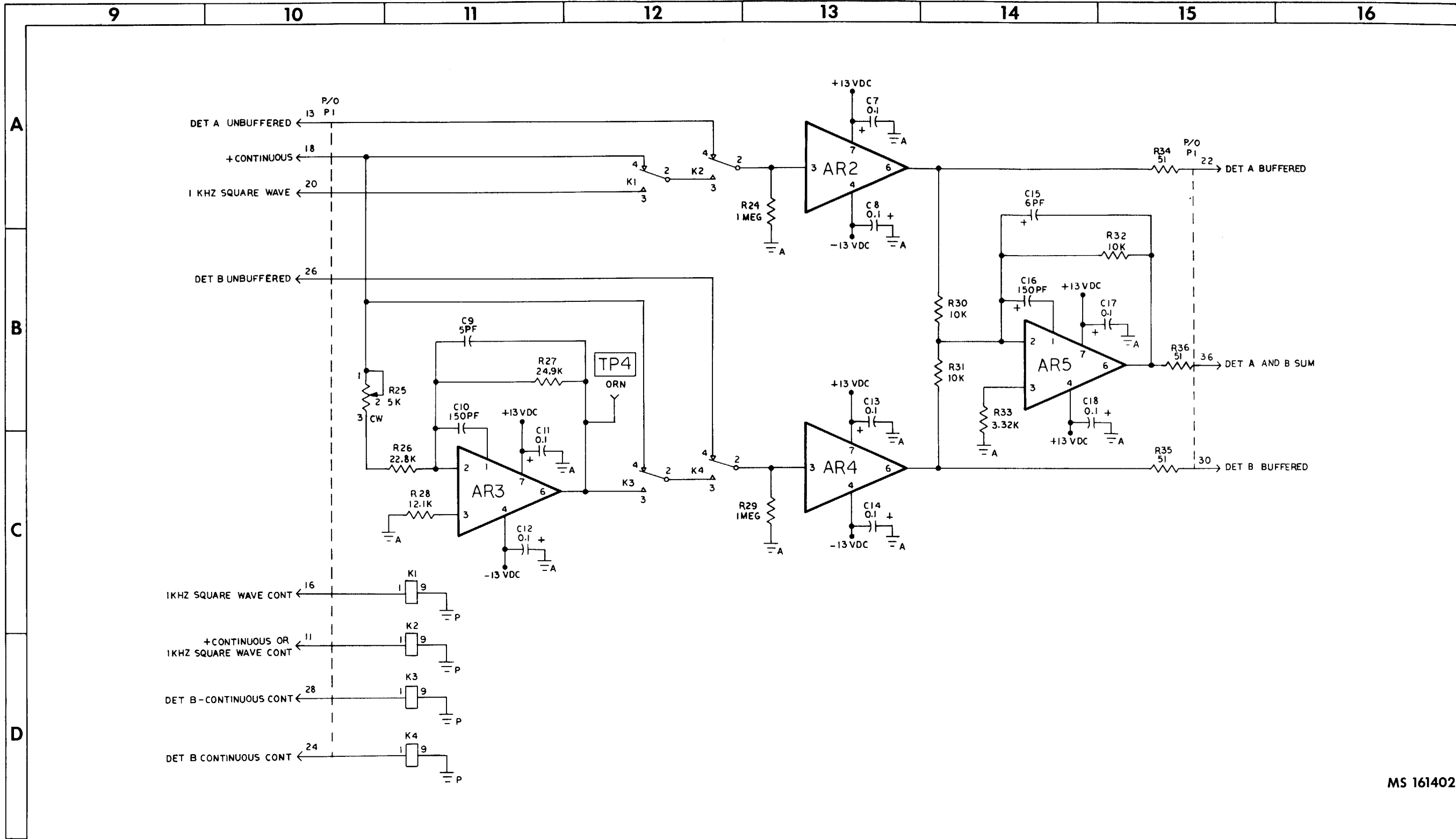


Figure 4-23. DMS-D card A22 (10275104)-
schematic diagram (sheet 2 of 3)

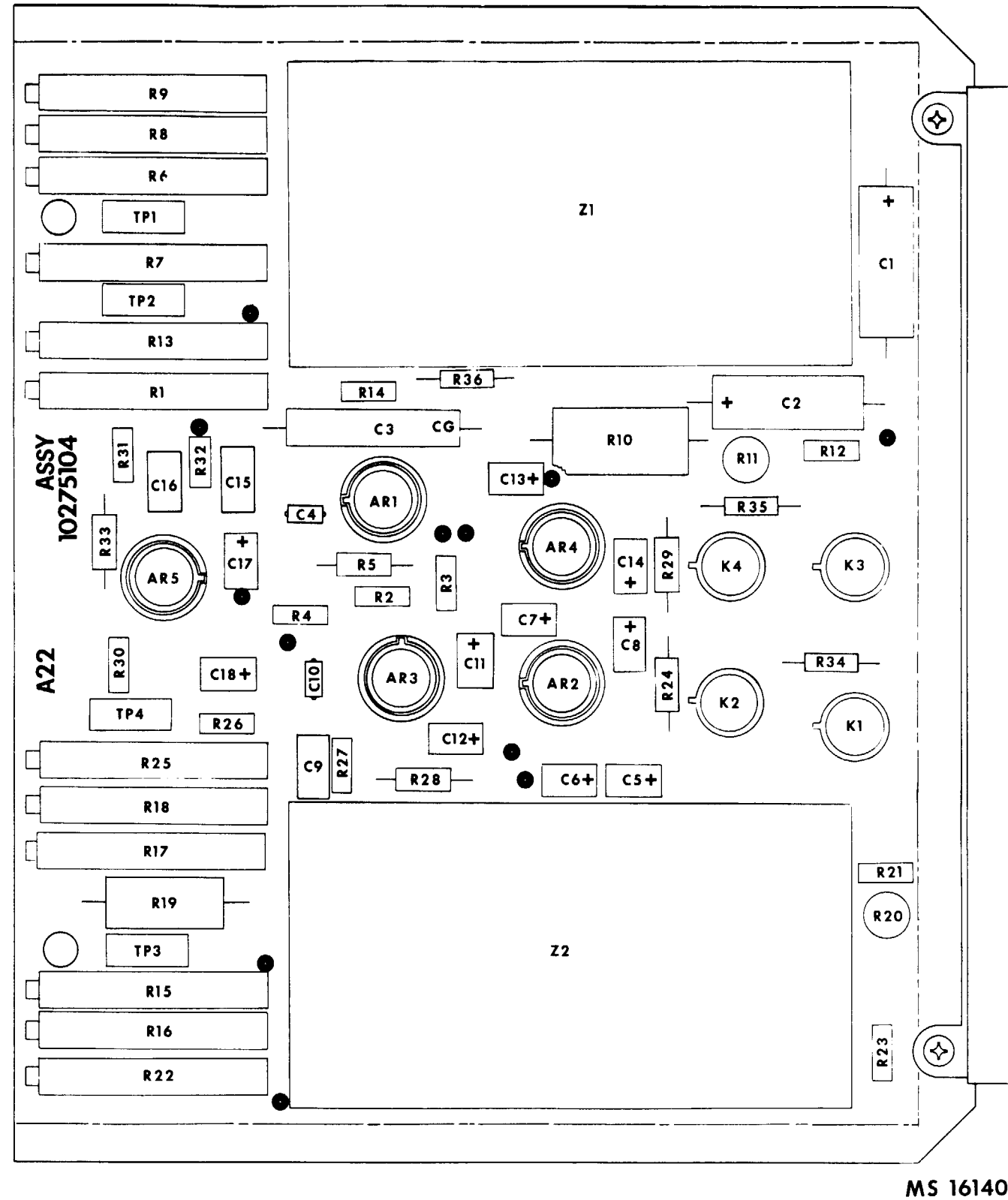


Figure 4-23. DMS-D card A22 (10275104)-
schematic diagram (sheet 3 of 3)

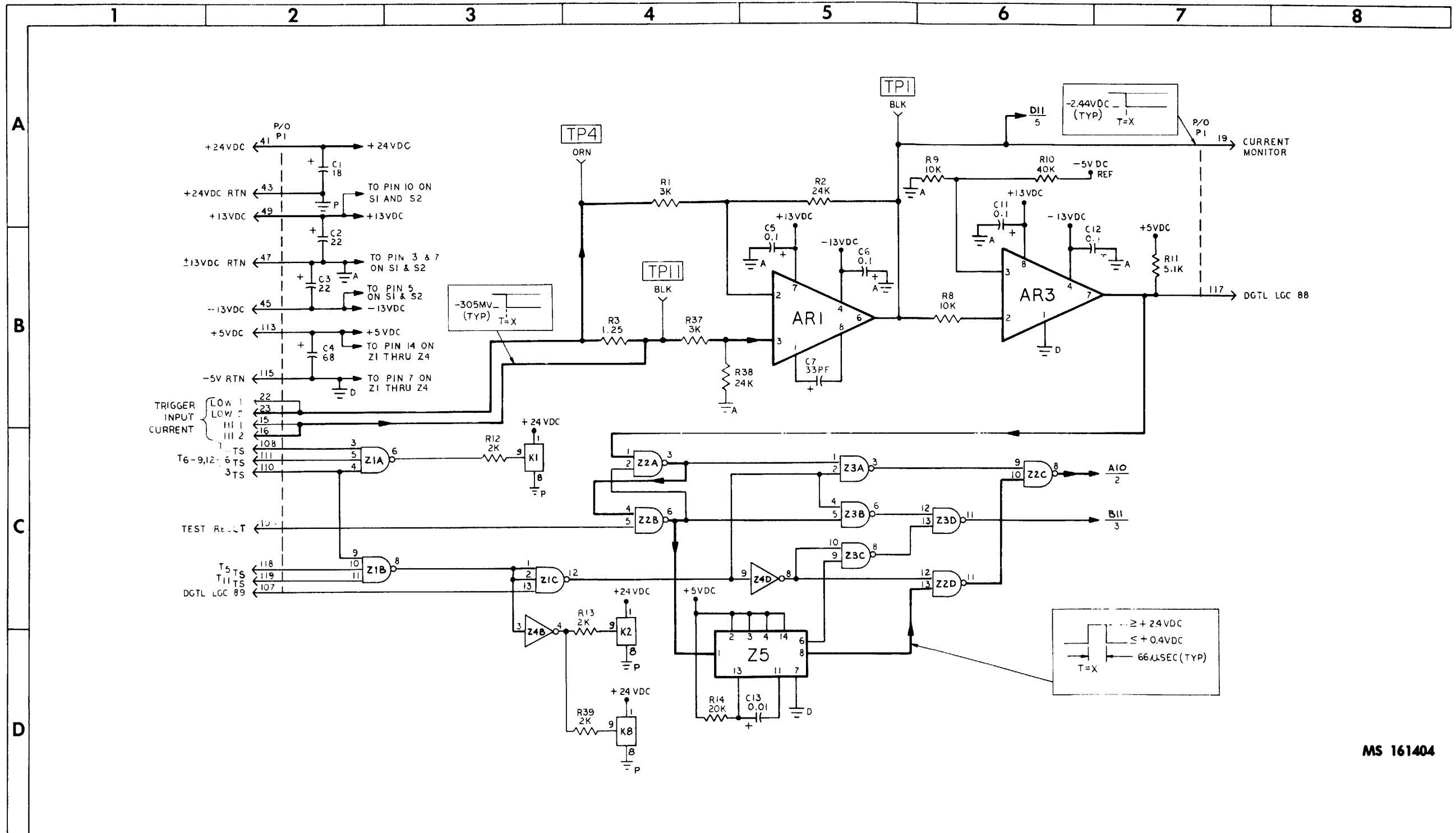


Figure 4-24. DMS-D Card A23 Schematic Diagram (sheet 1 of 5)

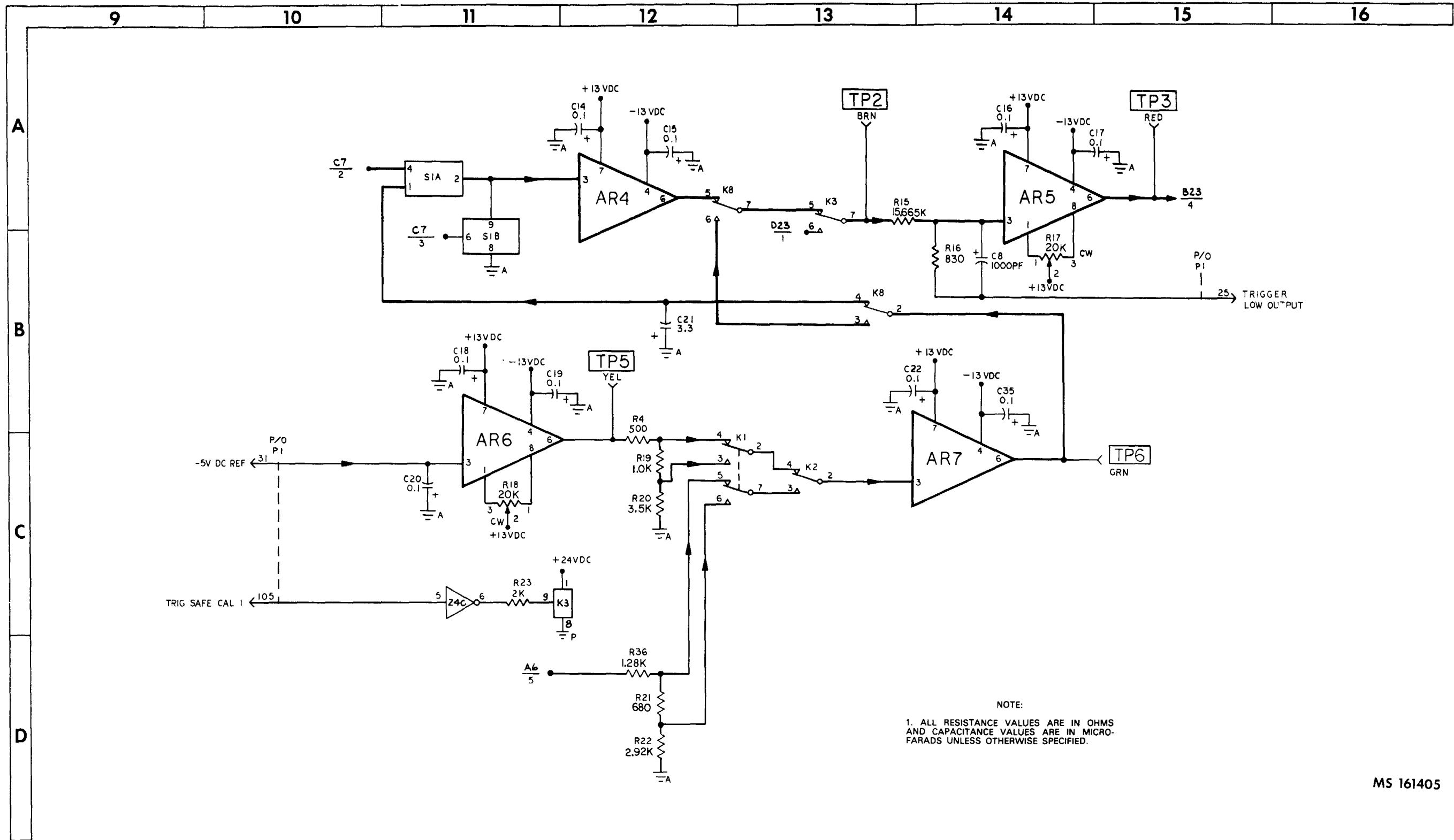
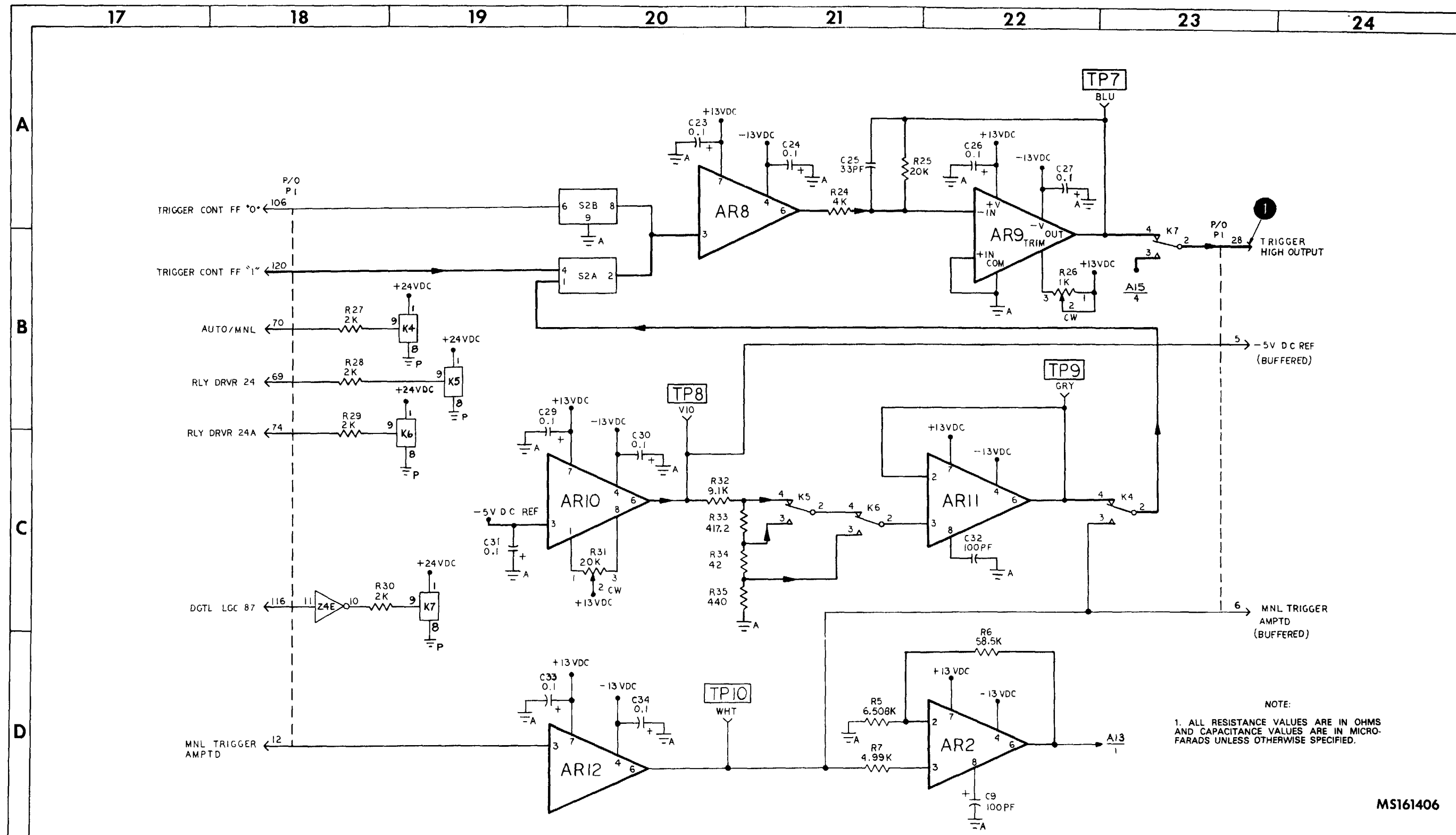


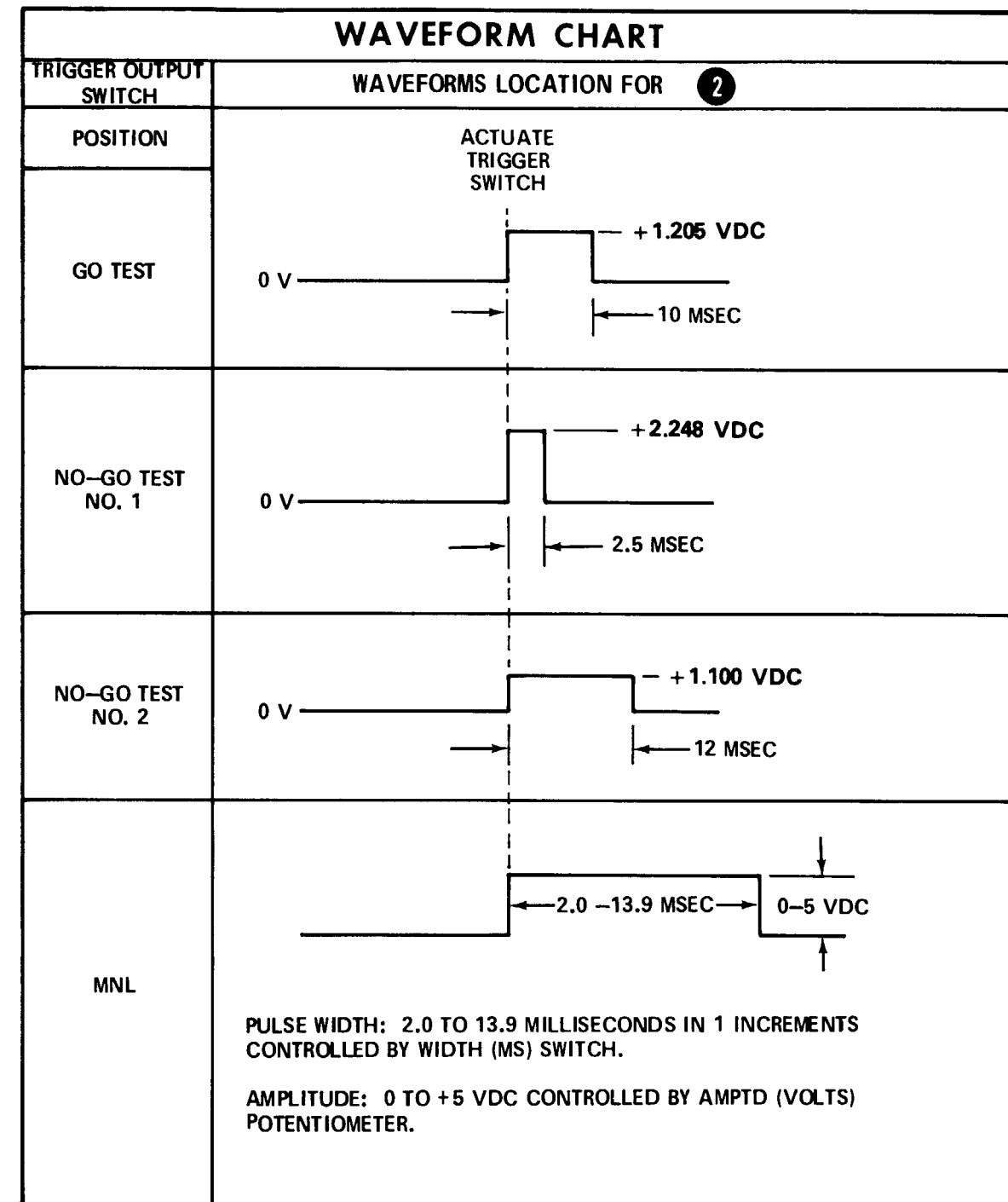
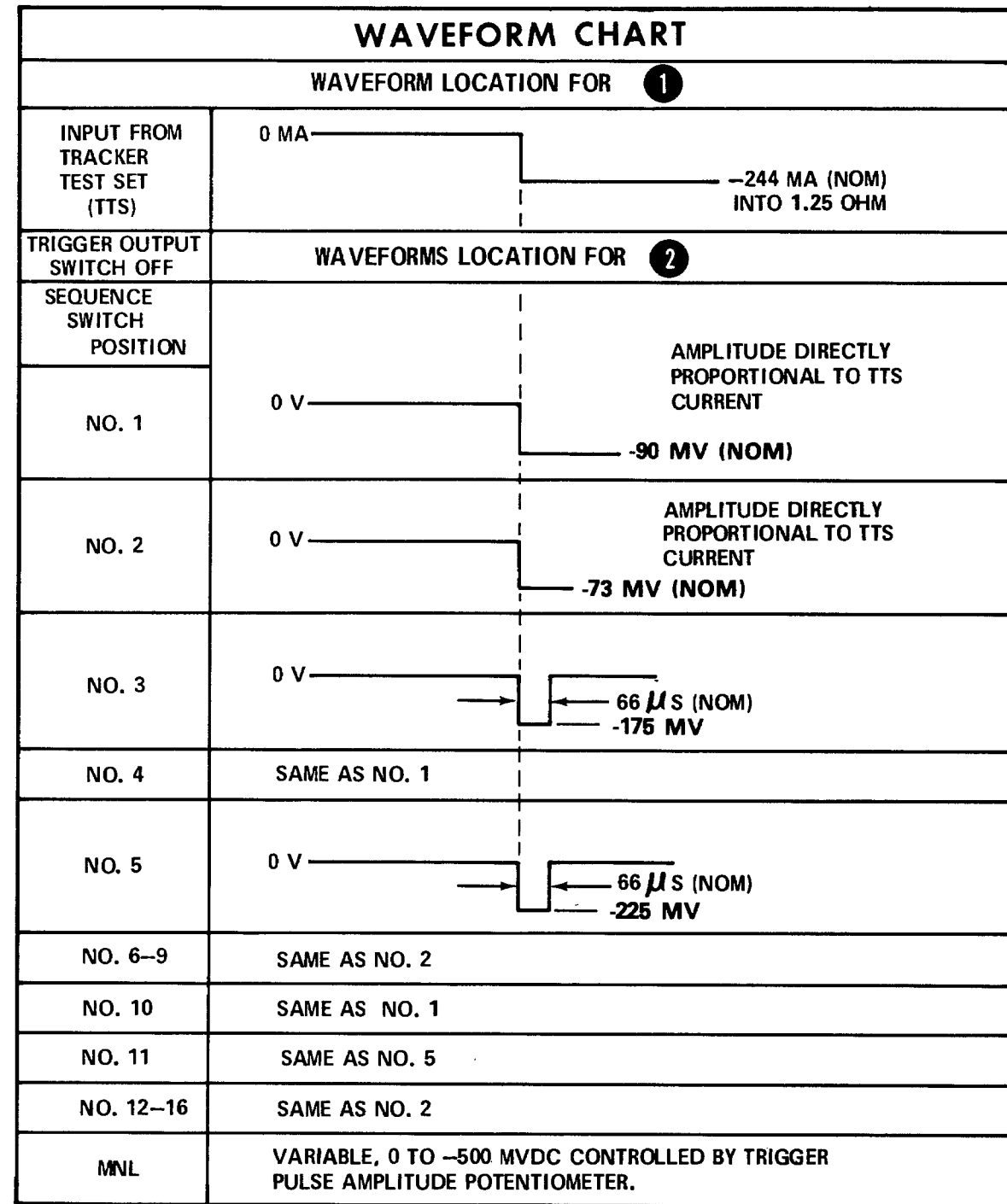
Figure 4-24. DMS-D card A23 schematic diagram (sheet 2 of 5)



NOTE:
1. ALL RESISTANCE VALUES ARE IN OHMS
AND CAPACITANCE VALUES ARE IN MICRO-
FARADS UNLESS OTHERWISE SPECIFIED.

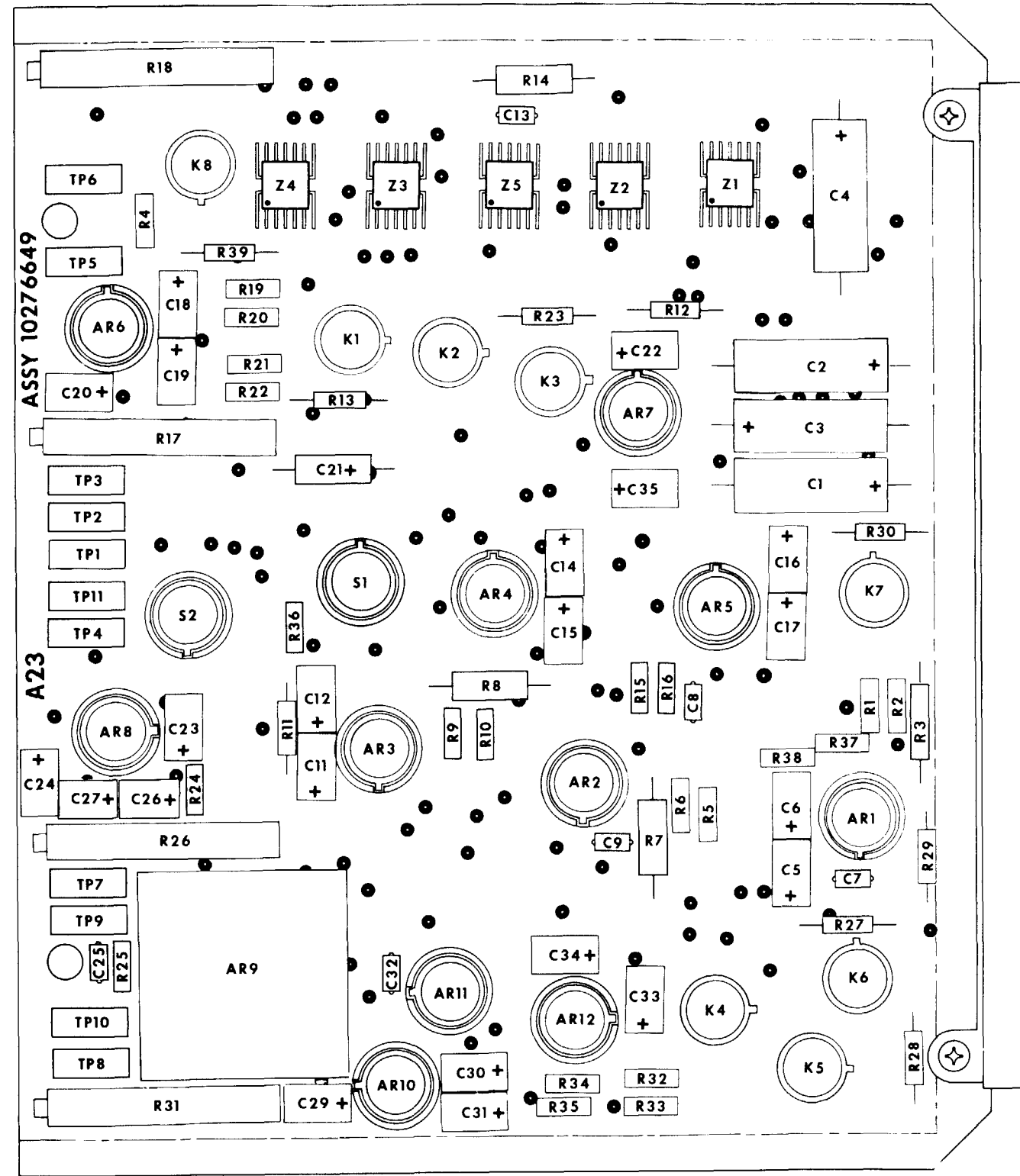
MS161406

Figure 4-24. DMS-D card A23
schematic diagram (sheet 3 of 5)



MS 161407

Figure 4-24. DMS-D card A23 schematic diagram (sheet 4 of 5)



MS 161408

Figure 4-24. DMS-D card A23 schematic diagram (sheet 5 of 5)

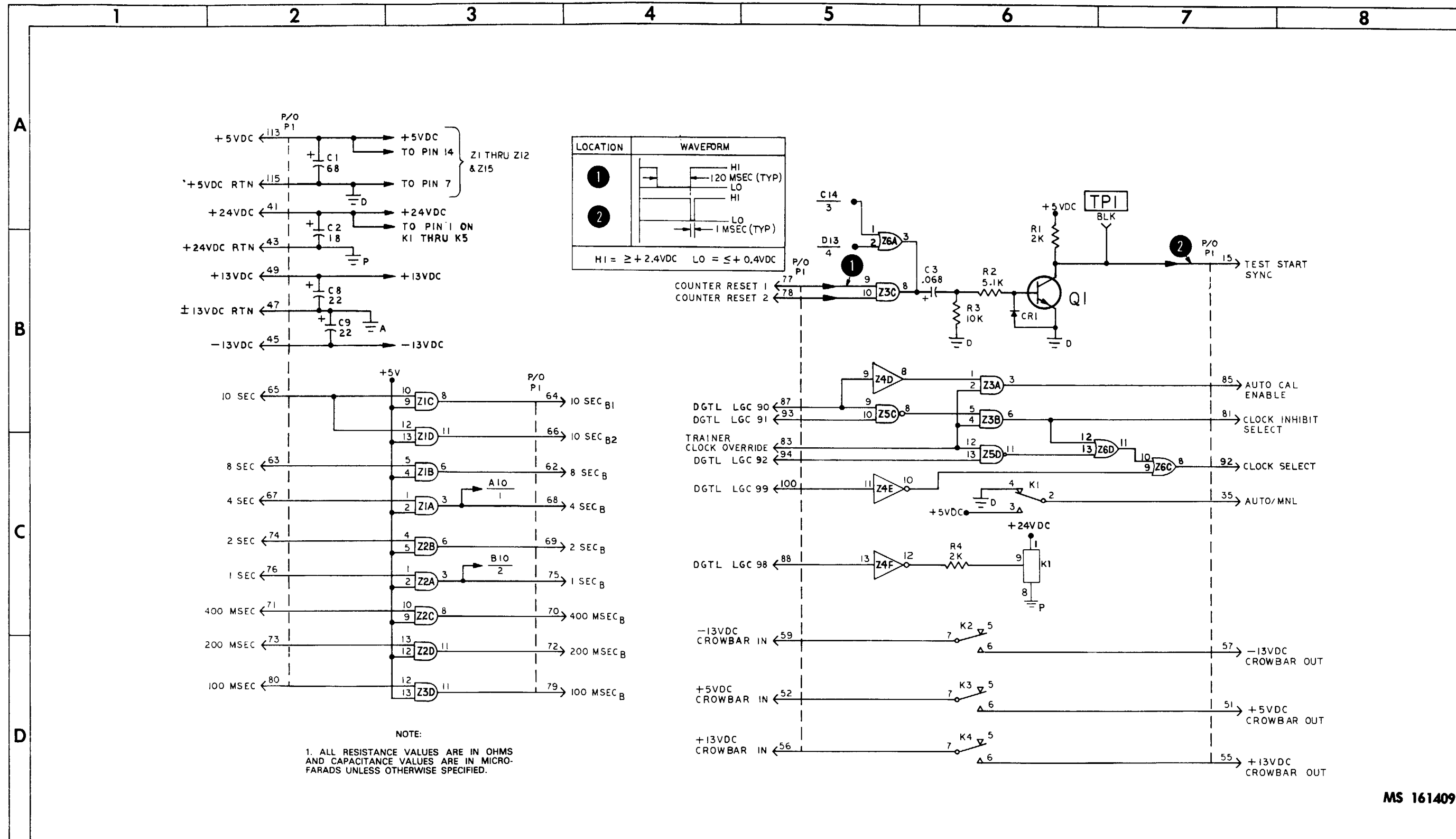
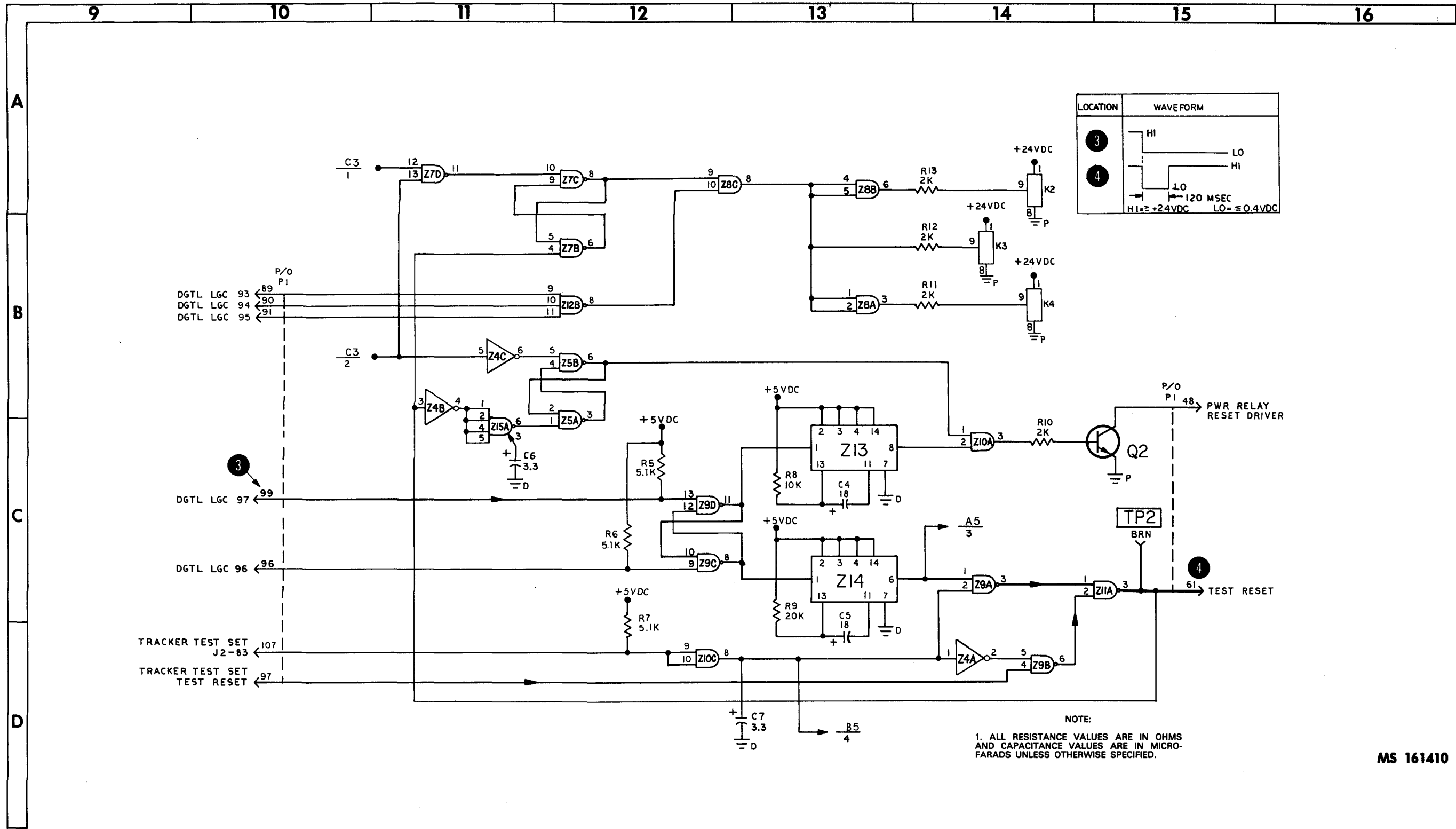


Figure 4-25. DMS-D card A24 schematic diagram (sheet 1 of 4)



MS 161410

Figure 4-25. DMS-D card A24 schematic diagram (sheet 2 of 4)

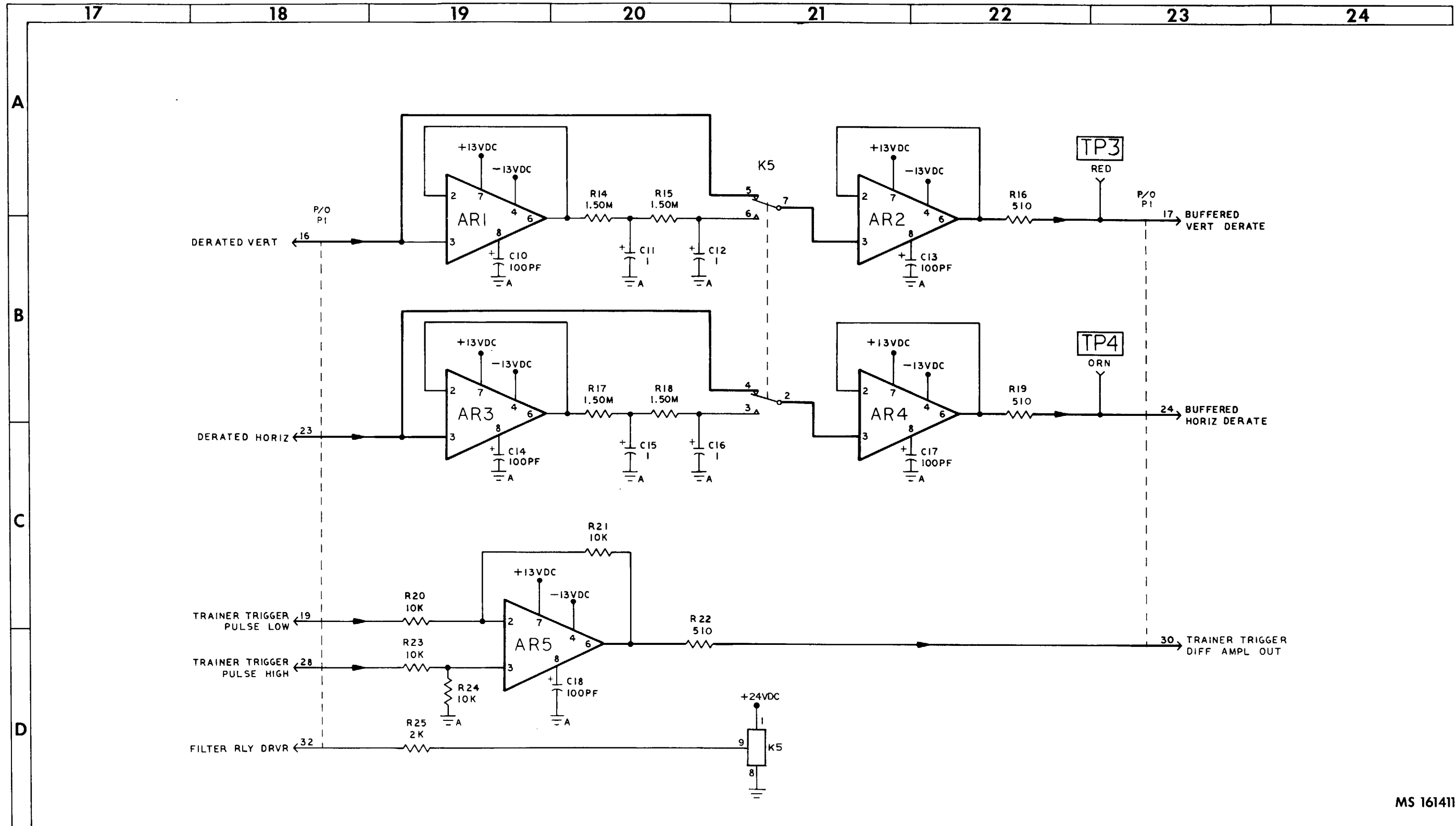
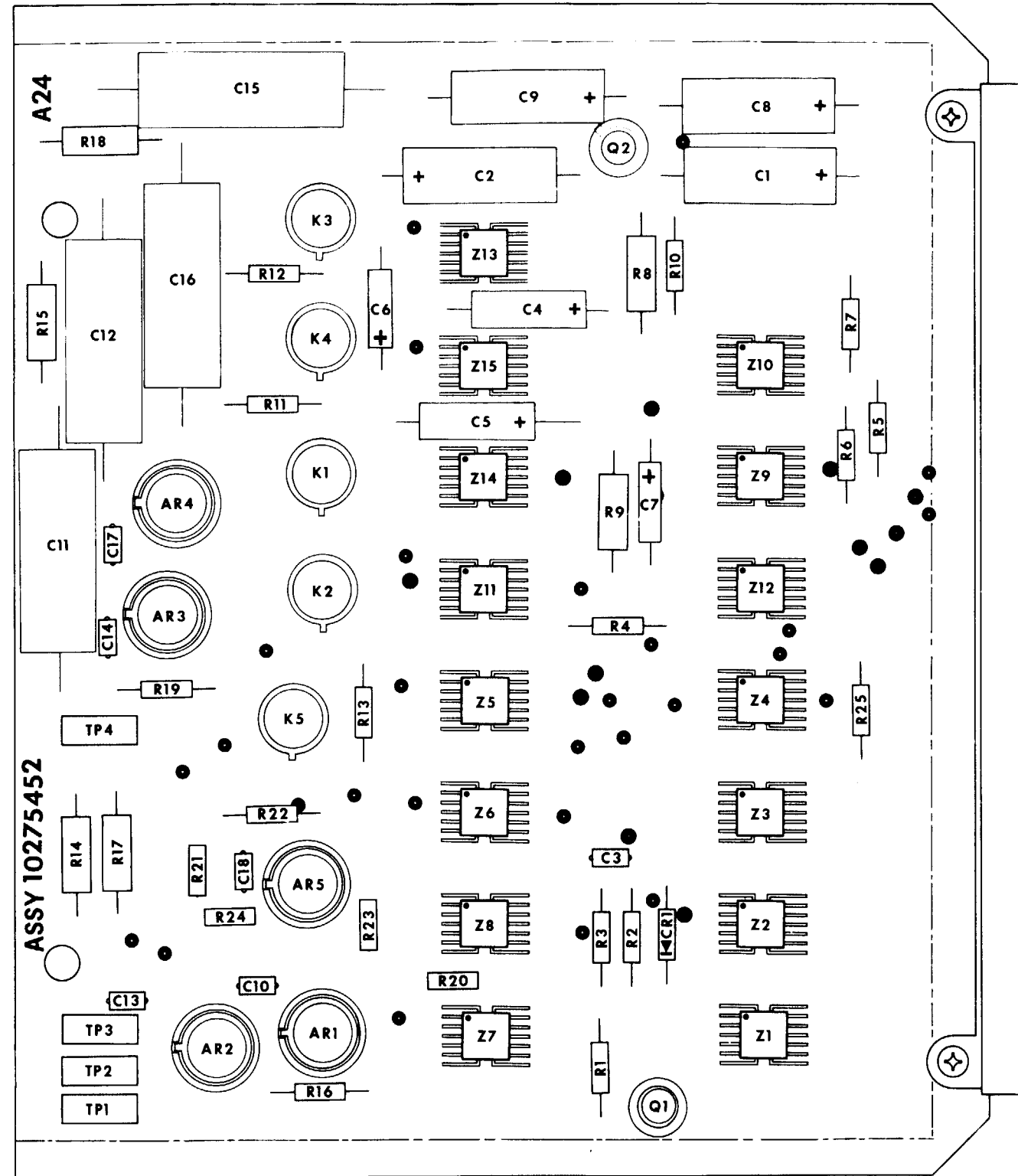


Figure 4-25. DMS-D card A24(10275452)-
schematic diagram (sheet 3 of 4)



MS 161412

Figure 42-5. DMS-D card A24 (10275452)-
schematic diagram (sheet 4 of 4)

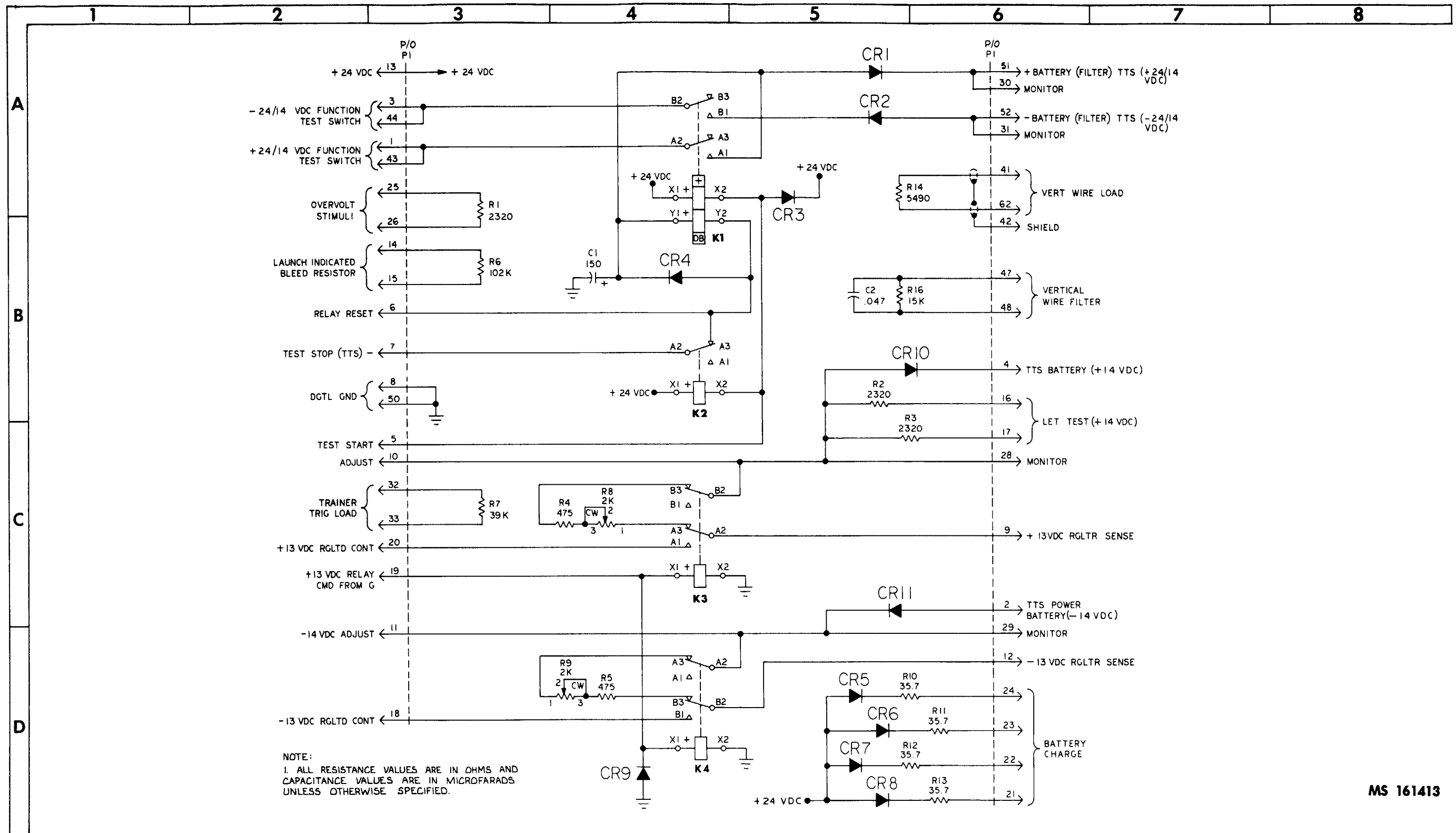
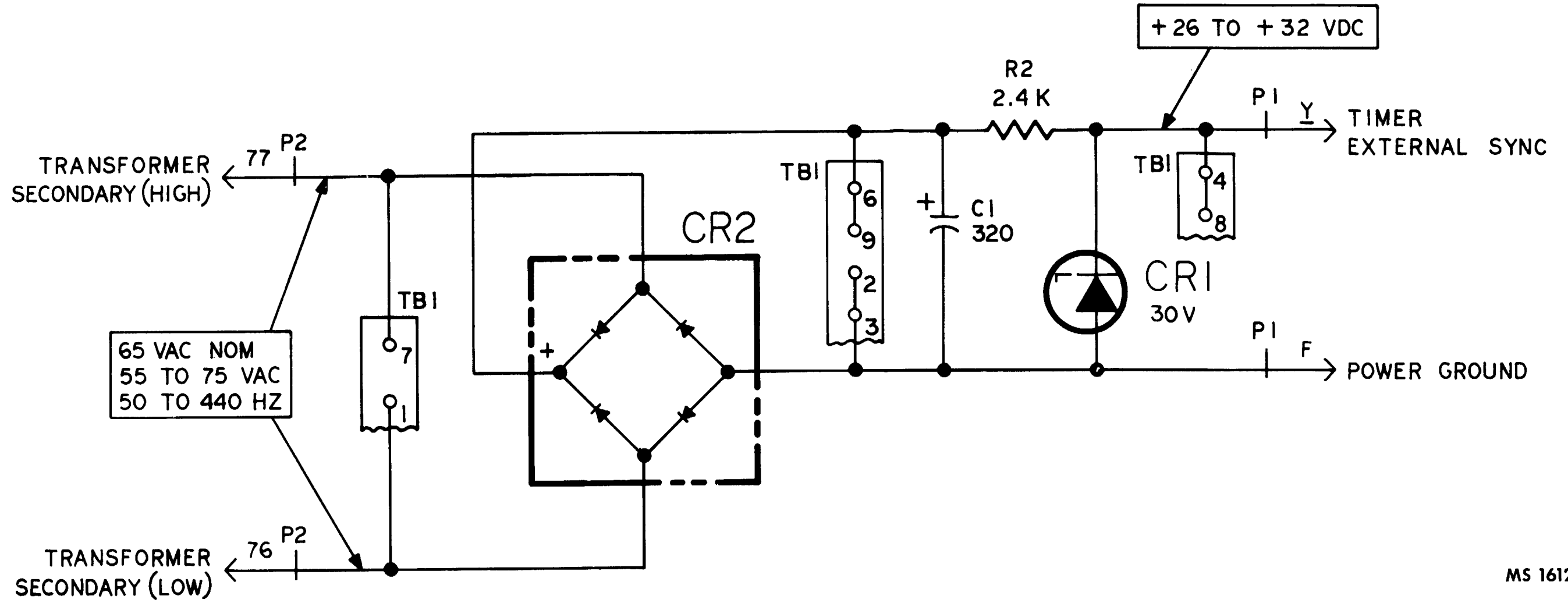
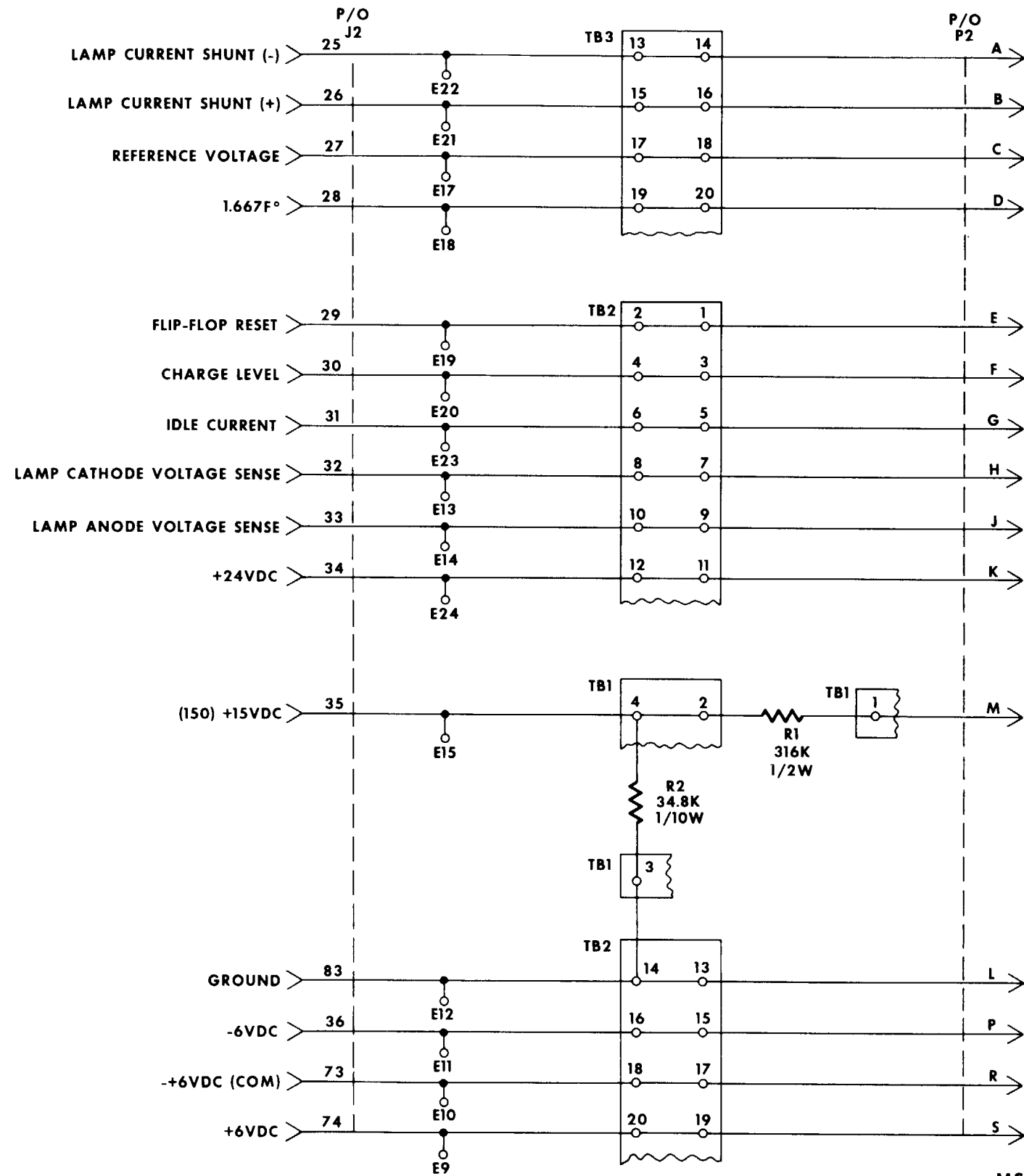
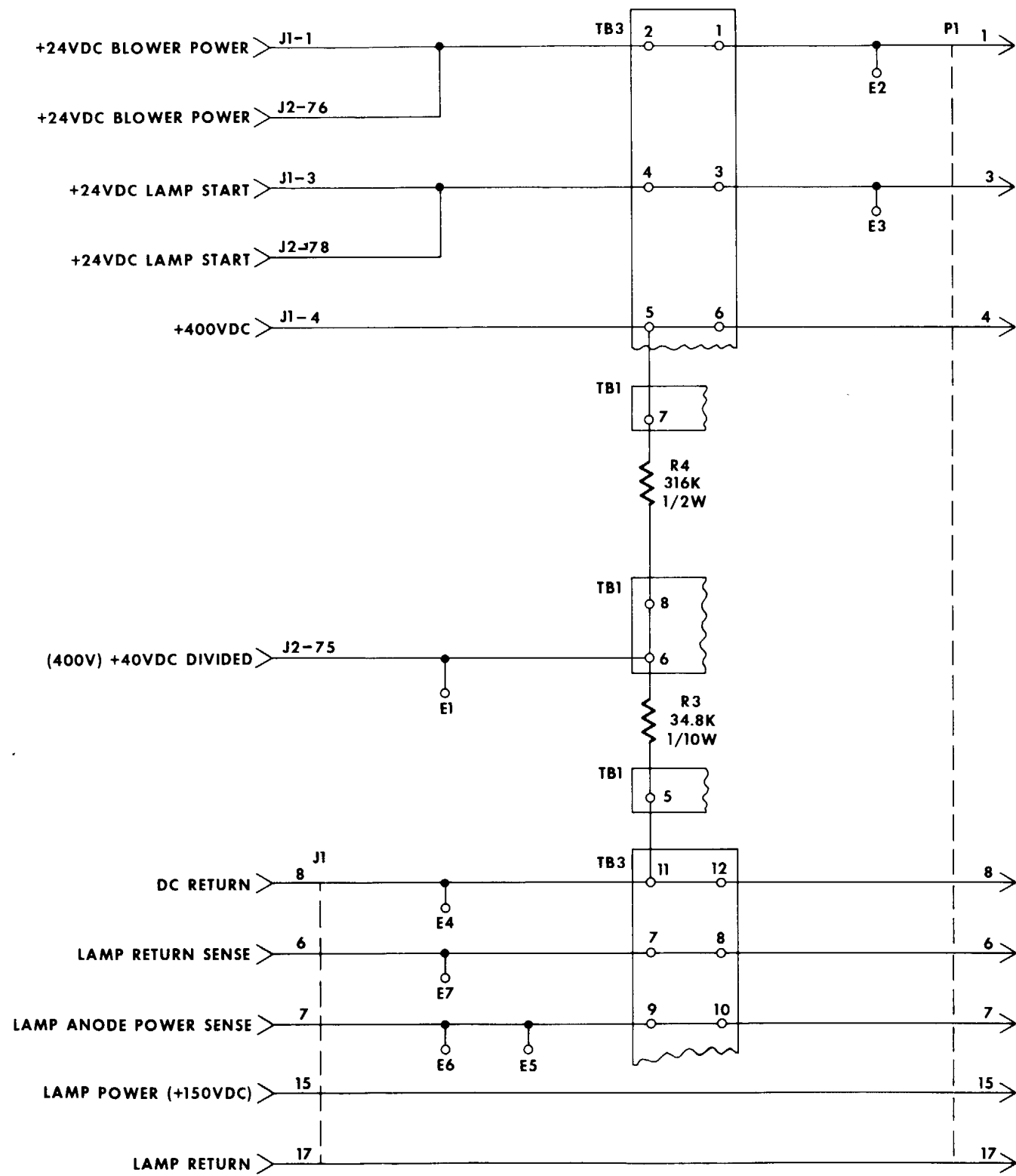


Figure 4-26. DMS-D Panel Assembly A25-Schematic Diagram



MS 161290

Figure 427. 'E' Cell sync adapter (10275038)-
schematic diagram



MS 161291

Figure 4-28. Beacon test adapter (10275448) - schematic diagram

CHAPTER 5

MK-1633 SCHEMATIC DIAGRAMS

MK-1633 Interface Diagram

MK-1633 Schematic Diagram

MK-1633 Circuit Card Schematic Diagrams

MK-1633 Adapter Schematic Diagrams

Nutator Test Adapter Schematic Diagrams

Test Phase Control Adapter Schematic Diagrams

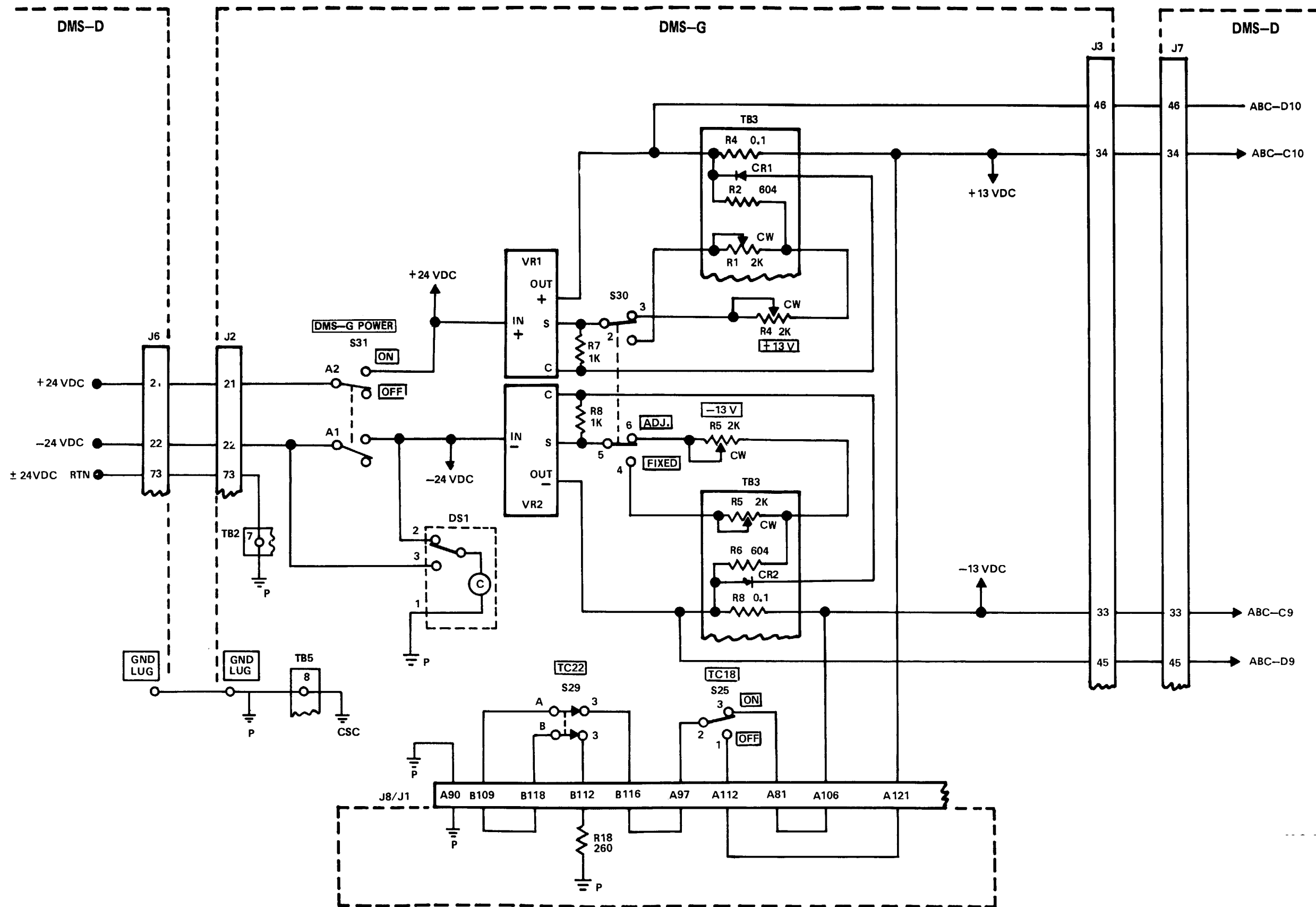


Figure 5-1. DMS-G Interface diagram (sheet 1 of 10)

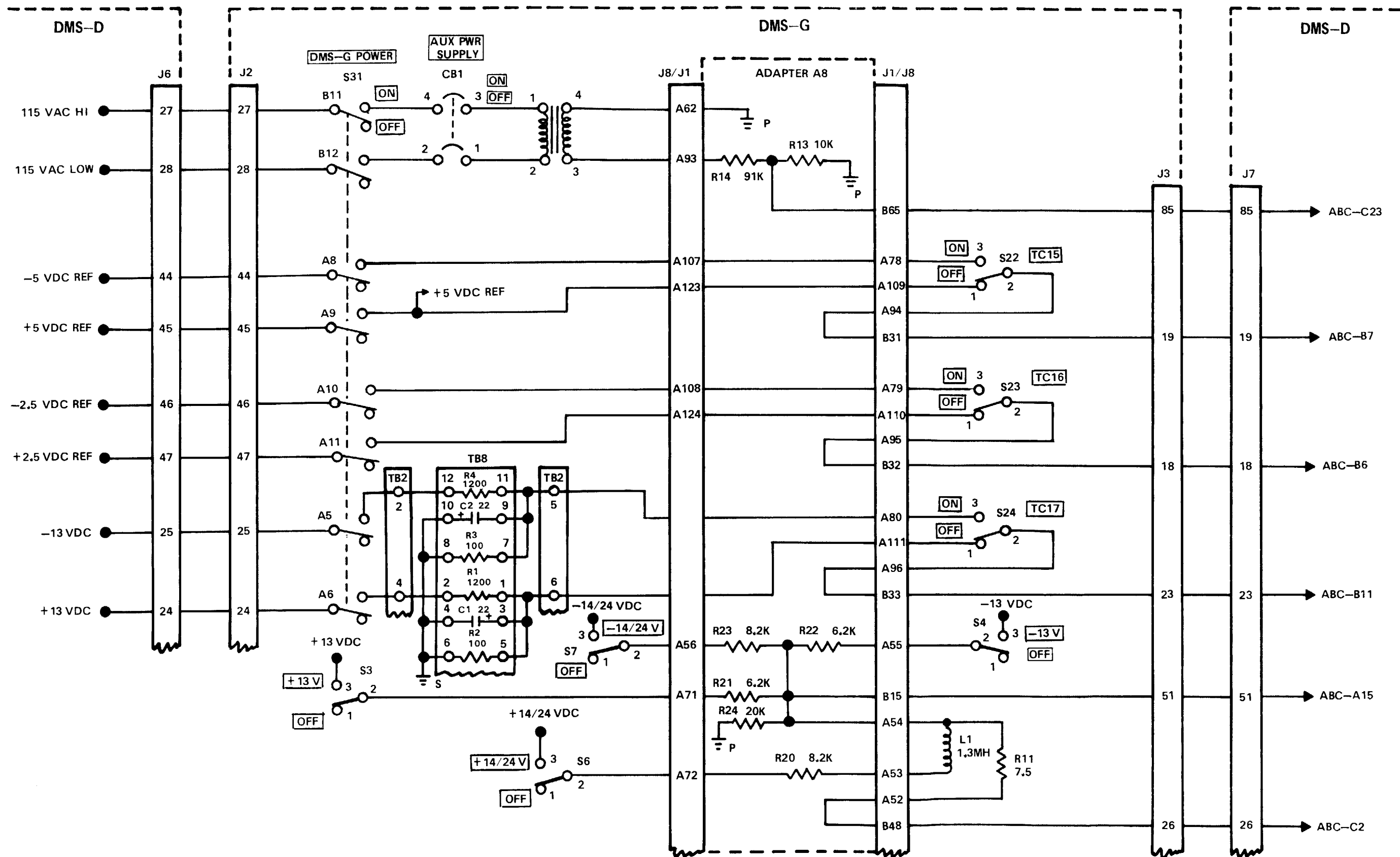


Figure 5-1. DMS-G interface diagram (sheet 2 of 10)

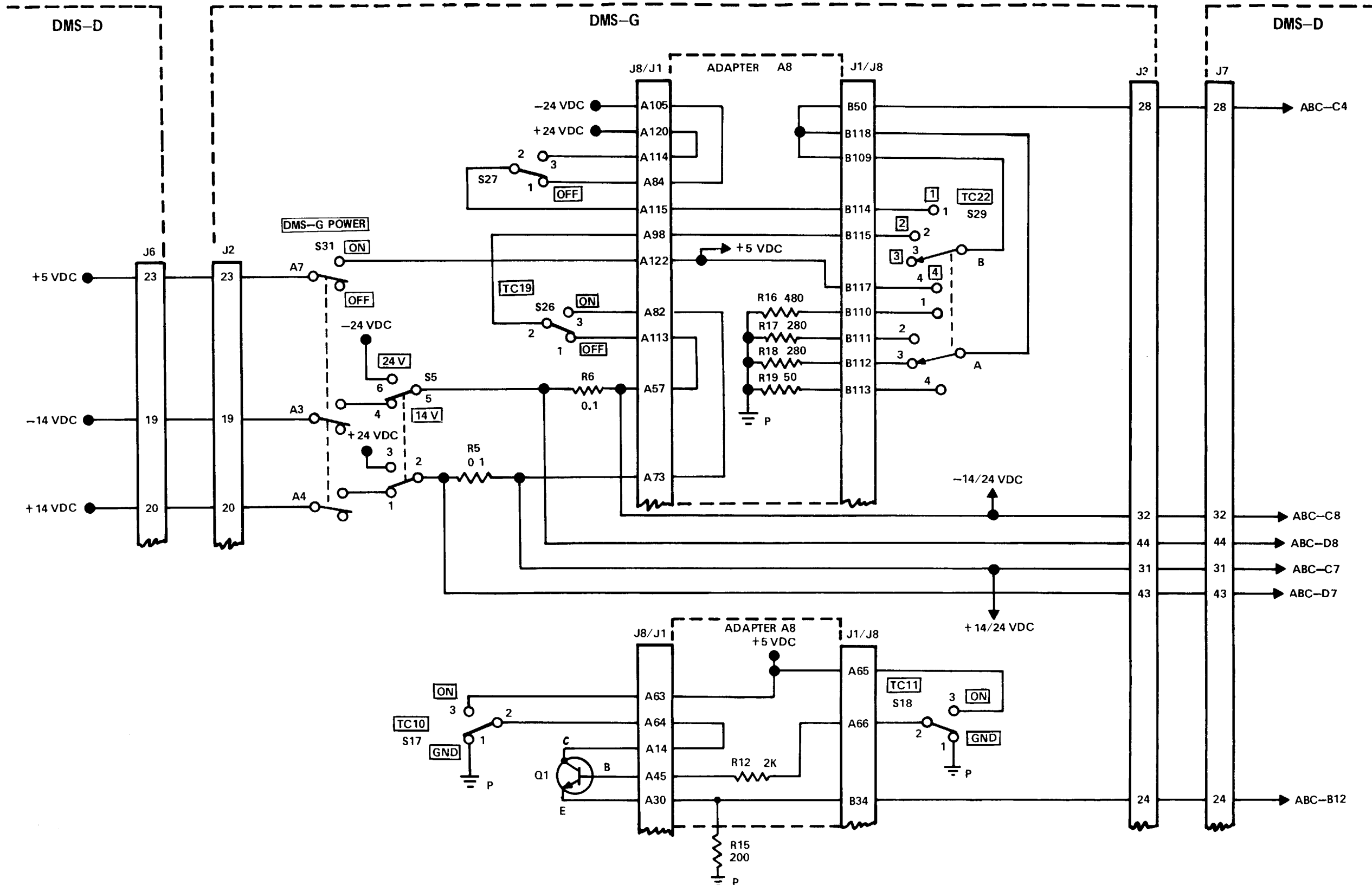


Figure 5-1. DMS-G interface diagram (sheet 3 of 10)

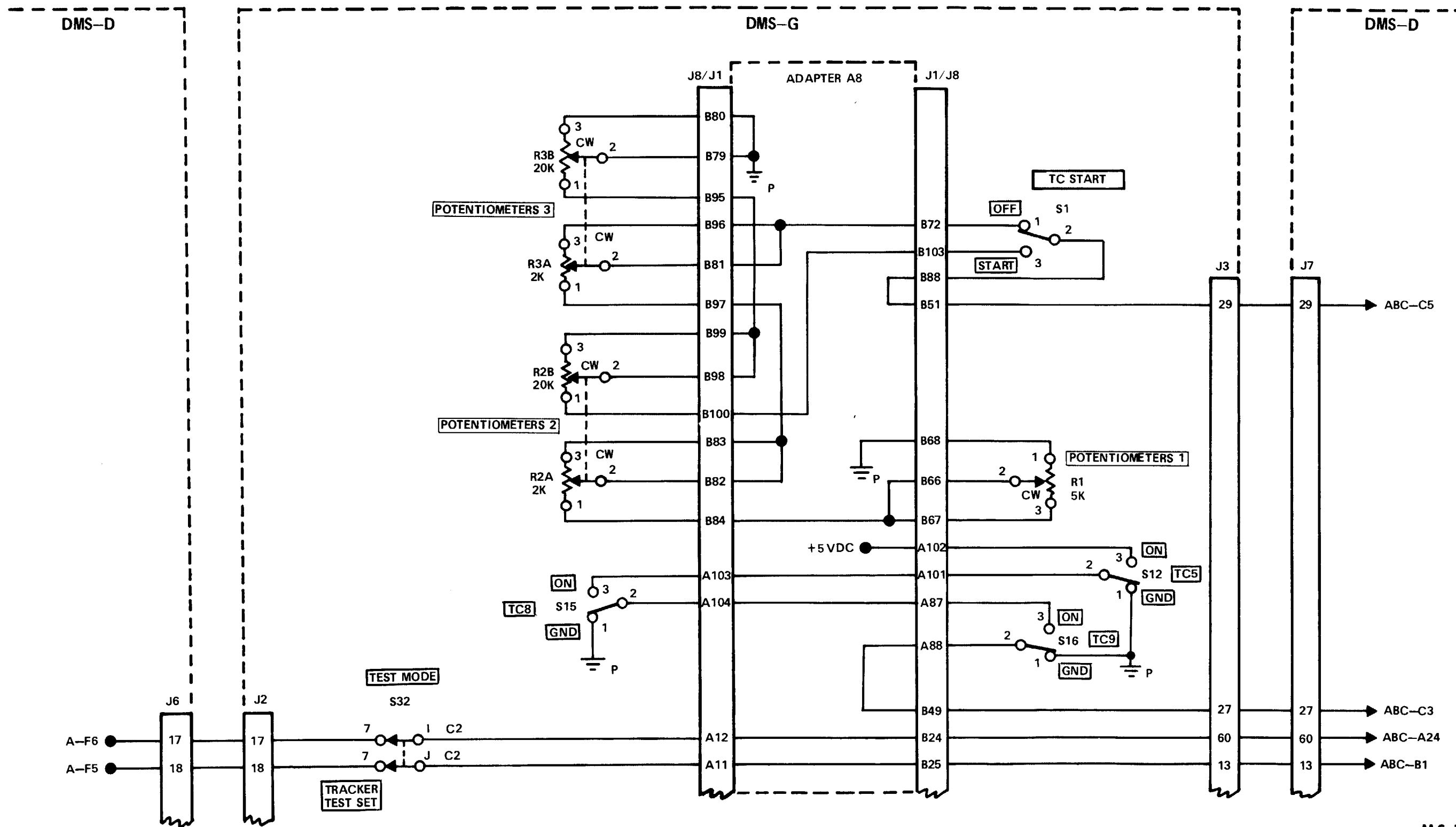


Figure 5-1. DMS-G interface diagram (sheet 4 of 10)

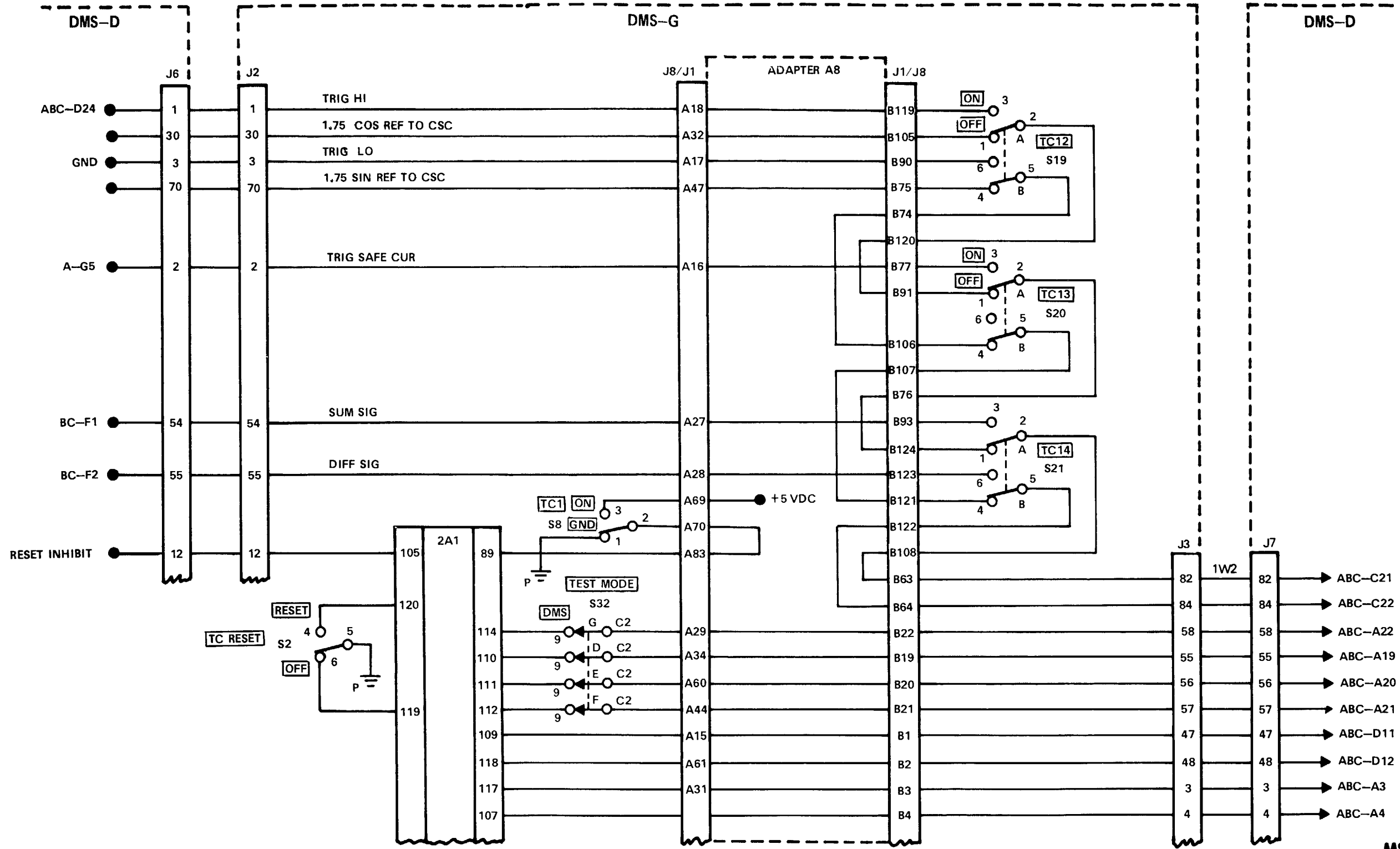


Figure 5-1. DMS-G interface diagram (sheet 5 of 10)

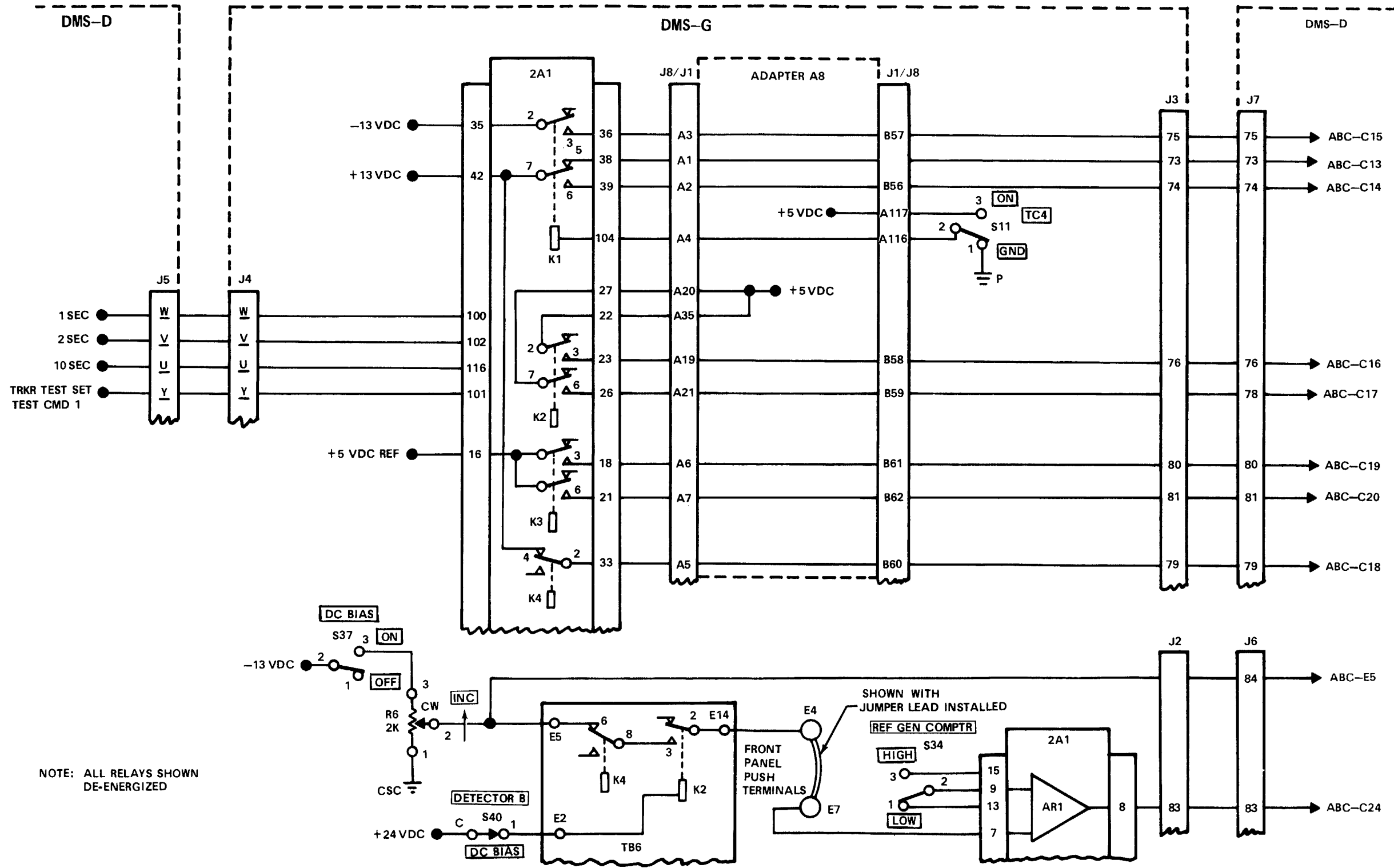
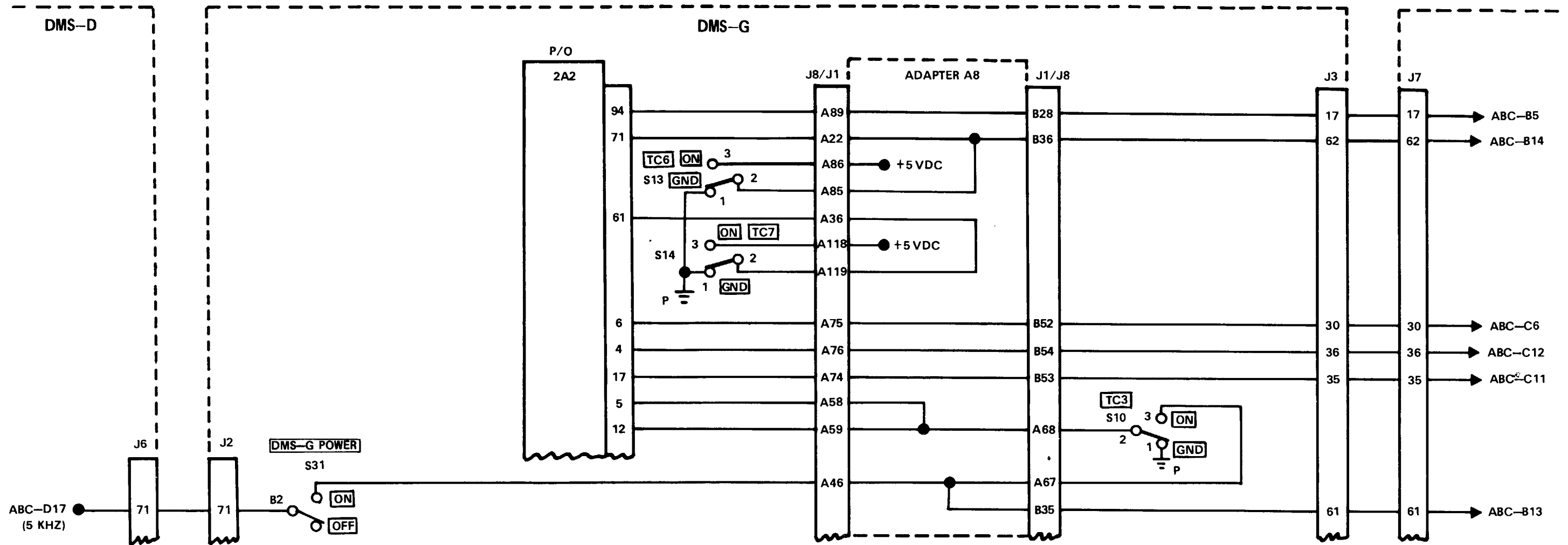


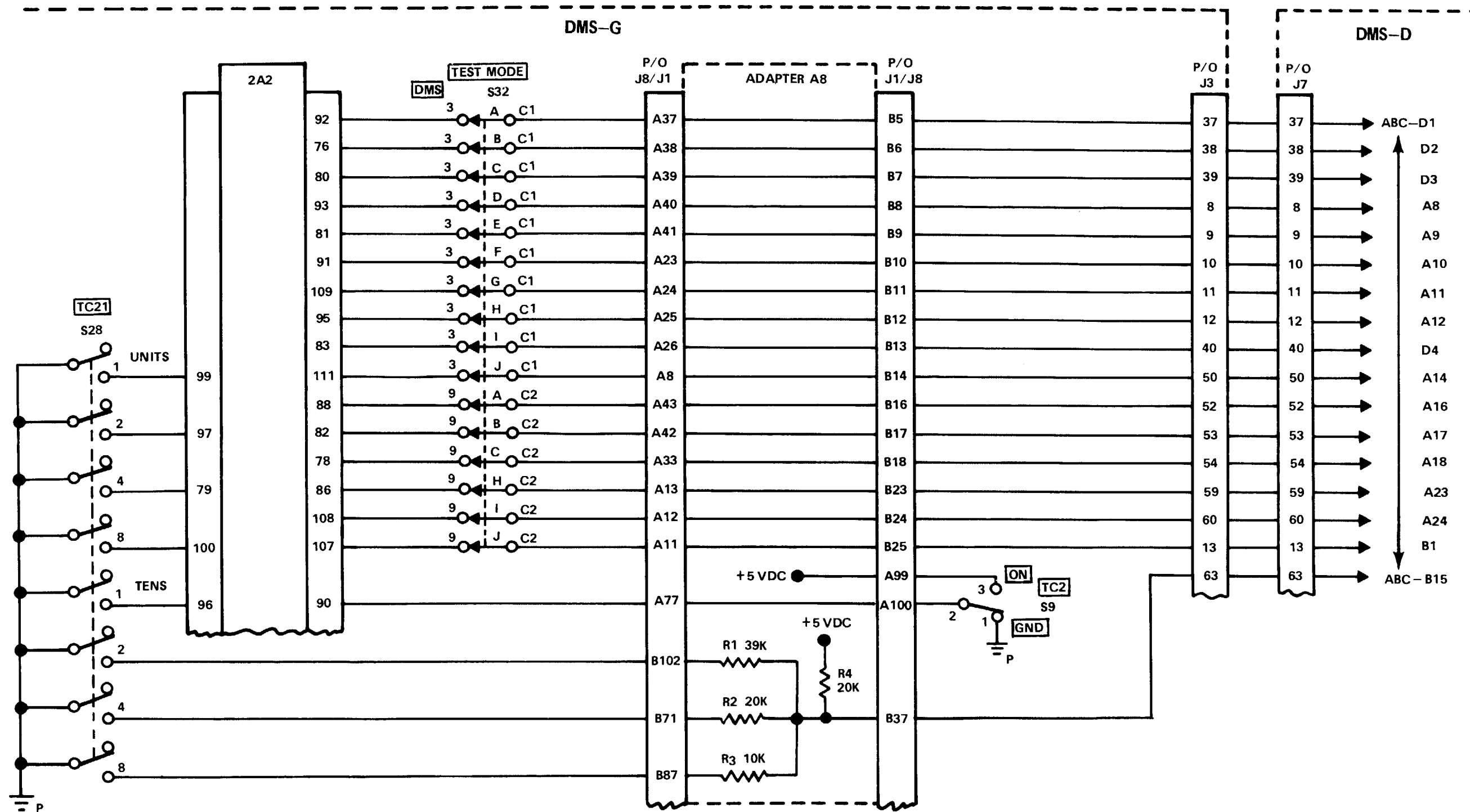
Figure 5-1. DMS-G interface diagram (sheet 6 of 10)

Figure 5-1. DMS-G interface diagram (sheet 6 of 10)



MS 161670

Figure 5-1. DMS-G interface diagram (sheet 7 of 10)



MS 161671

Figure 5-1. DMS-G Interface diagram (sheet 8 of 10)
5-8

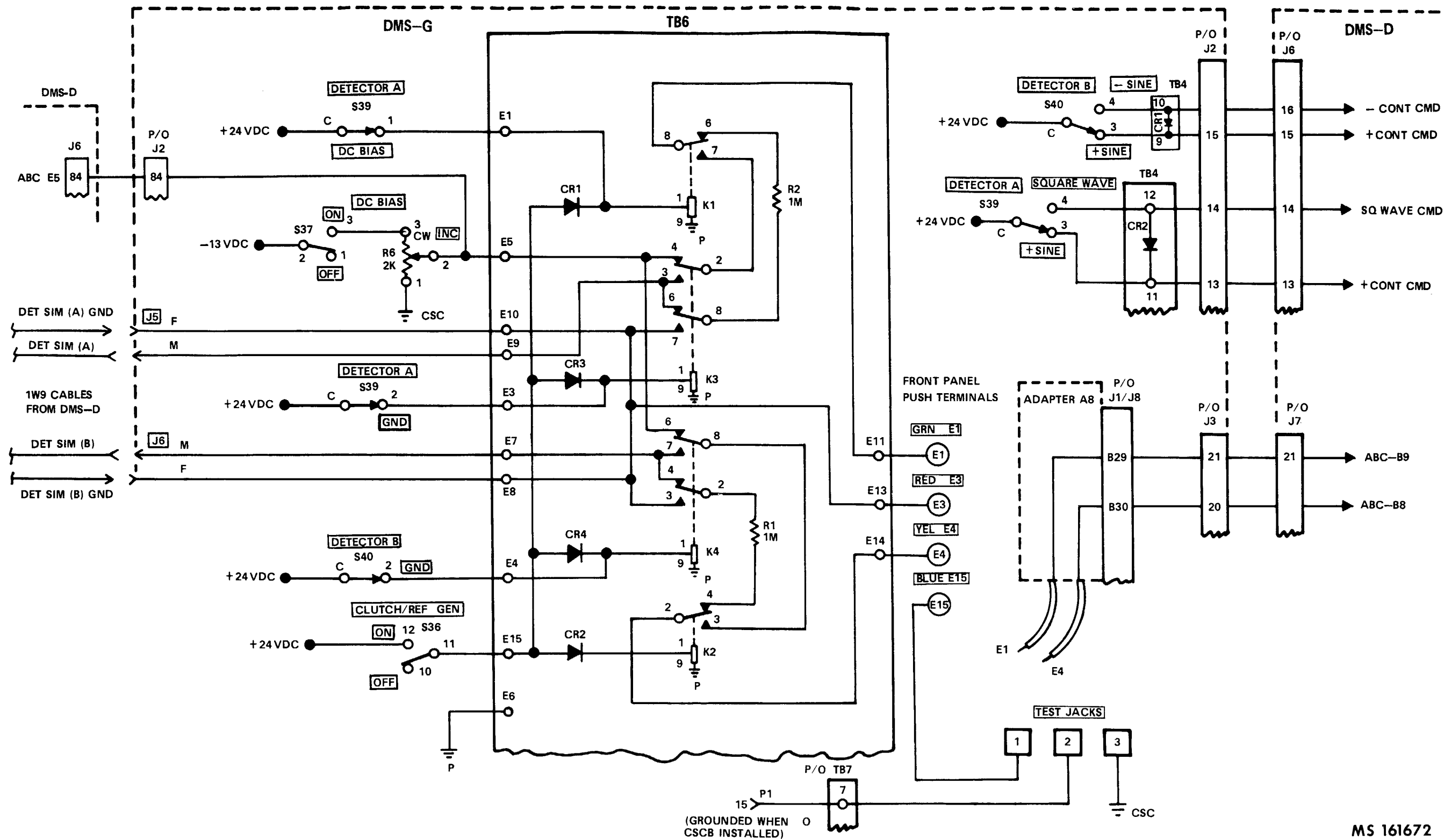


Figure 5-1. DMS-G Interface diagram (sheet 9 of 10)

MS 161672

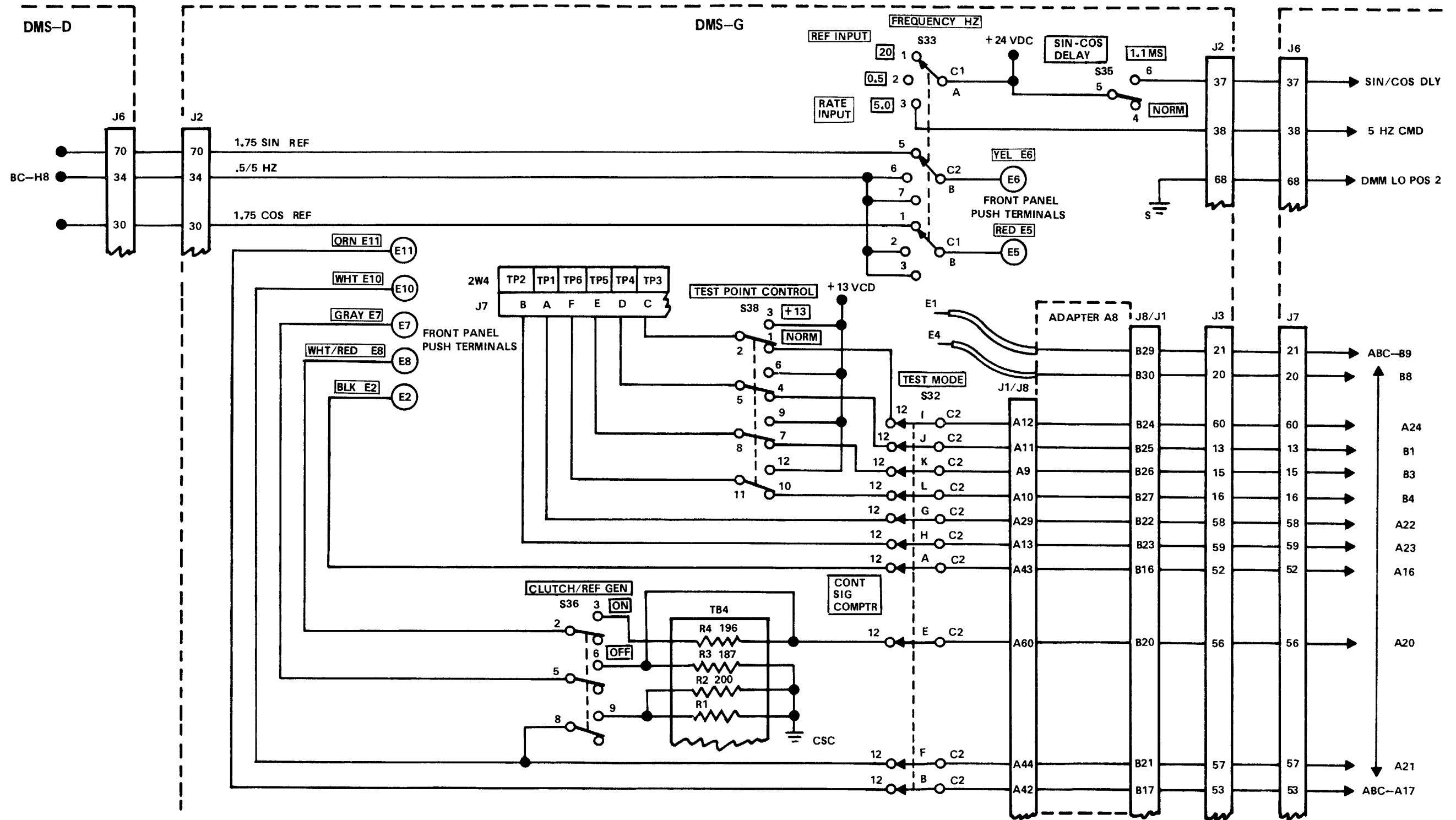


Figure 5-1. DMS-G Interface diagram (sheet 10 of 10)

INDEX		INDEX	
REFERENCE DESIGNATION	SHEET NUMBER	REFERENCE DESIGNATION	SHEET NUMBER
A1	10	R8	2
A2	10	R9	8
CB1	2	R10	8
DS1	2	R11	5
E1	9	S1	4
E2	9	S2	4
E3	9	S3	2
E4	9	S4	2
E5	8	S5	2
E6	8	S6	2
E7	9	S7	2
E8	↓	S8	4
E9	↓	S9	↓
E10	↓	S10	↓
E11	↓	S11	↓
E12	↓	S12	↓
E13	↓	S13	↓
E14	9	S14	↓
E15	8	S15	↓
E16	8	S16	↓
E17	8	S17	↓
E18	8	S18	↓
E19	9	S19	↓
E20	9	S20	↓
E21	9	S21	↓
E22	9	S22	↓
E30	3	S23	↓
E31 - E37	7	S24	↓
E39 - E46	7	S25	↓
E47	3	S26	4
E48,E49	7	S27	5
E50	3	S28	5
E51	8	S29	2
E52	2	S30	2,3
E53,E54,E55	3	S31	6,7
J2	2,3,6,7,8,9,10	S32	8
J3	2,4,7	S33	10
J4	6,7,10	S34	9
J5	9	S35	9
J6	9	S36	9
J7	6,9	S37	9
J8	2,3,4,5,6,7,8,10	S38	9
L1	5	S39	9
P1	8	S40	9
Q1	5	T1	2
R1	5	TB1	2,3
R2	5	TB2	2,3
R3	5	TB3	2
R4	2	TB4	2,9
R5	2	TB5	2,8
R6	9	TB6	9
R7	2	TB7	8
		TB8	3
		VR1	2
		VR2	2
		W5	2,3,4,5,6,7,8,10
		W5J1	2,3,4,5,6,7,8,10
		W5P1	2,3,4,5,6,7,8,10
		XA1	10
		XA2	10
		XA3	10

NOTES:

1. ALL VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.
2. LOWER CASE LETTERS ARE SHOWN AS UNDERLINED UPPER CASE LETTERS.
3. NON-STANDARD ABBREVIATIONS:
 - 3.1 FR G MEANS FROM DMS-G.
 - 3.2 FR D MEANS FROM DMS-D
 - 3.3 TO D MEANS TO DMS-D
 - 3.4 ABC- MEANS DMS-D SELECTORS A. B & C- POSITION XXX.
 - 3.5 CSC MEANS CONTROL. SIGNAL COMPARATOR.
 - 3.6 TC MEANS TEST CONTROL
4. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION. PREFIX WITH UNIT NUMBER OR SUBASSEMBLY DESIGNATION(S).
5. ALL WAFER SWITCH PIN NUMBERS ARE MARKED ON THE DECKS. DECK NUMBERS ARE IDENTIFIED BY BEGINNING WITH THE FIRST ALPHA OR NUMERIC DIGIT AT THE KNOB END.

TC-21 SWITCH PIN NUMBERS ARE IDENTIFIED AS SHOWN BELOW:

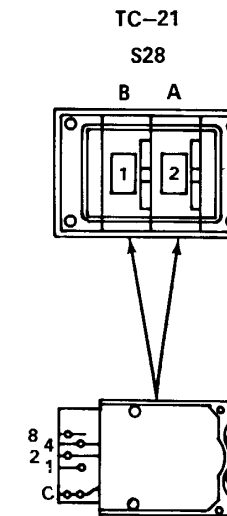


Figure 5-2. DMS-G - schematic diagram (sheet 1 of 10)

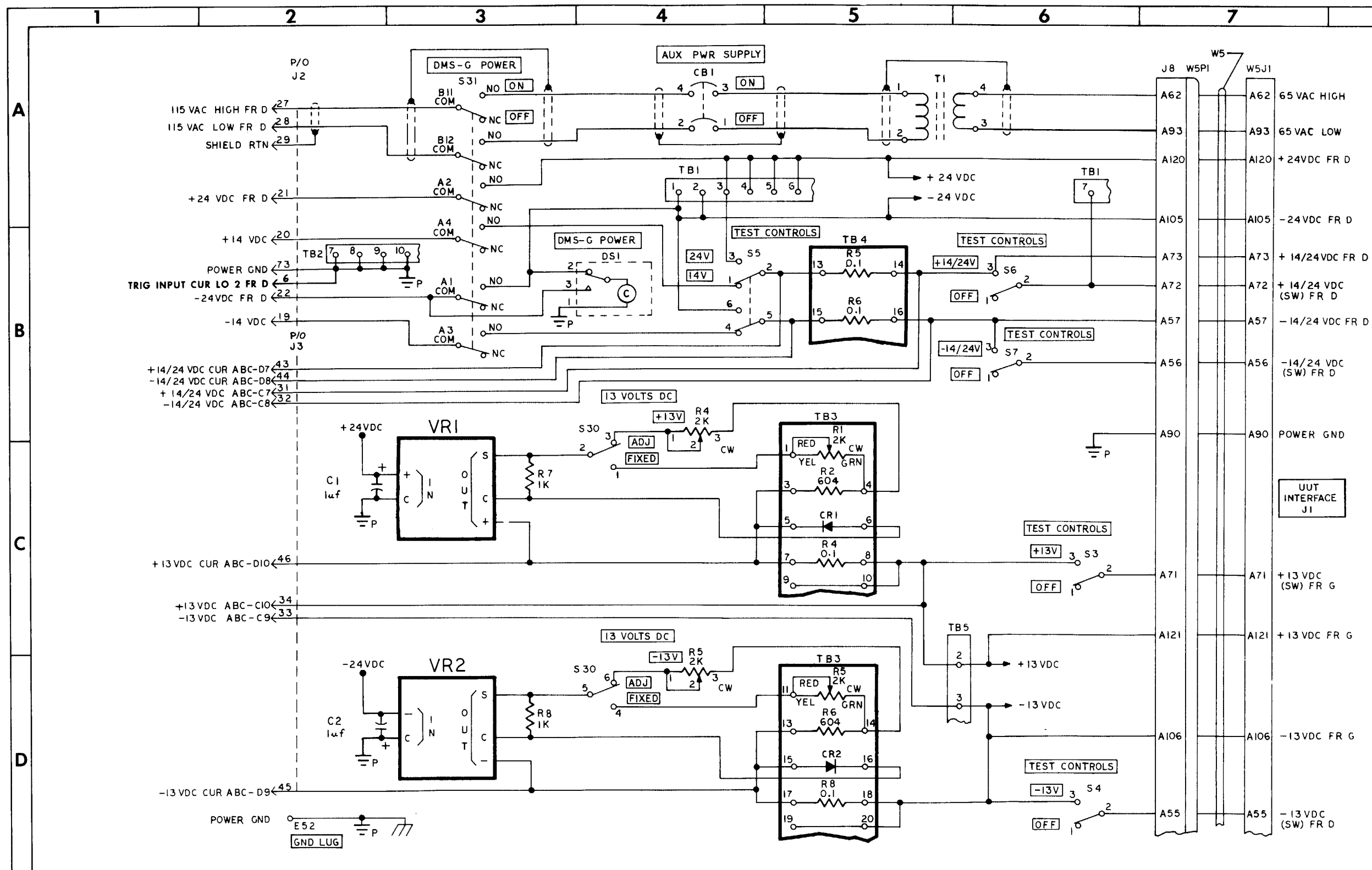


Figure 5-2. DMS-G - schematic diagram (sheet 2 of 10)

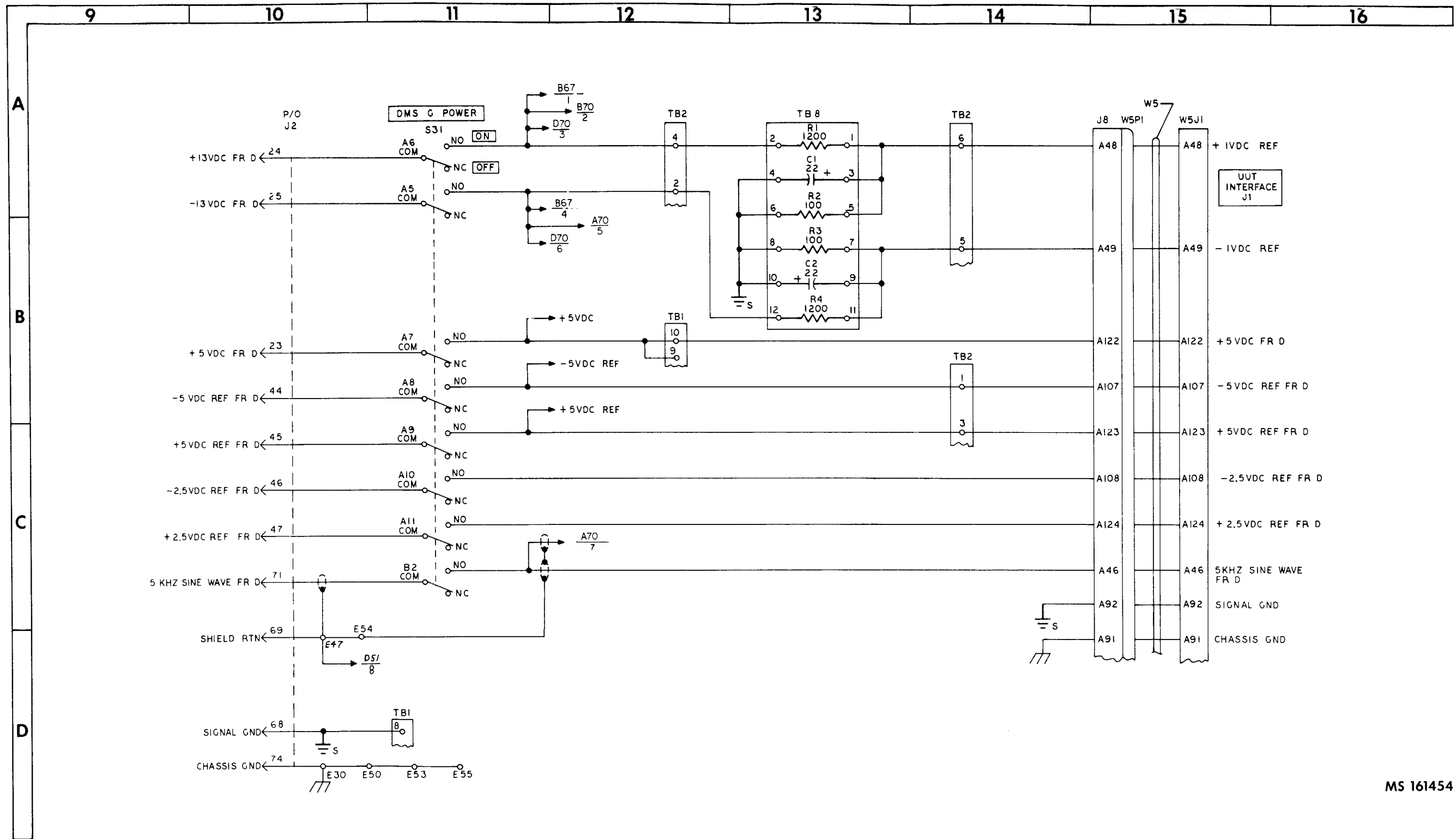


Figure 5-2. DMS-G - schematic diagram (sheet 3 of 10)

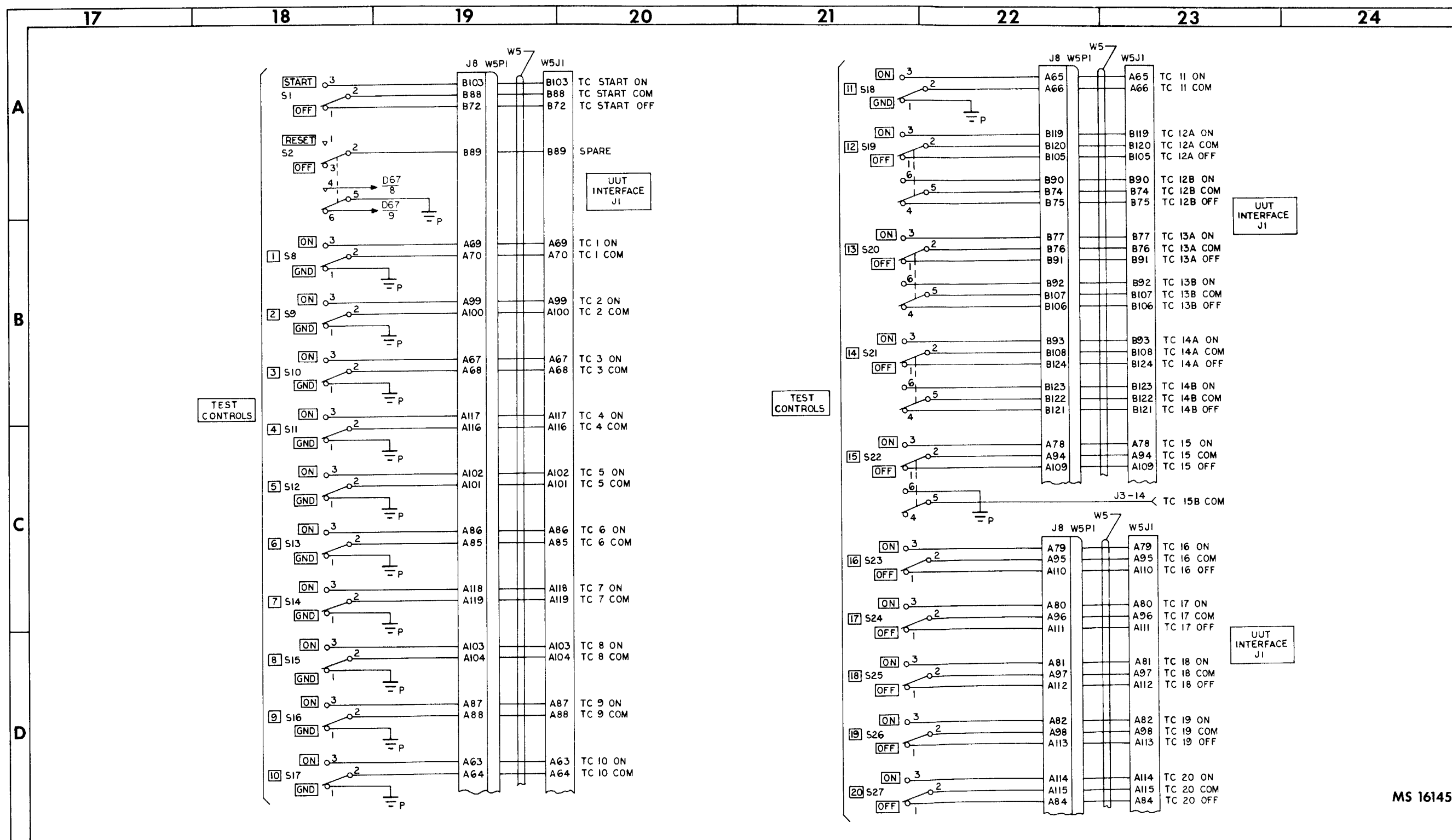


Figure 5-2. DMS-G- schematic diagram (sheet 4 of 10)

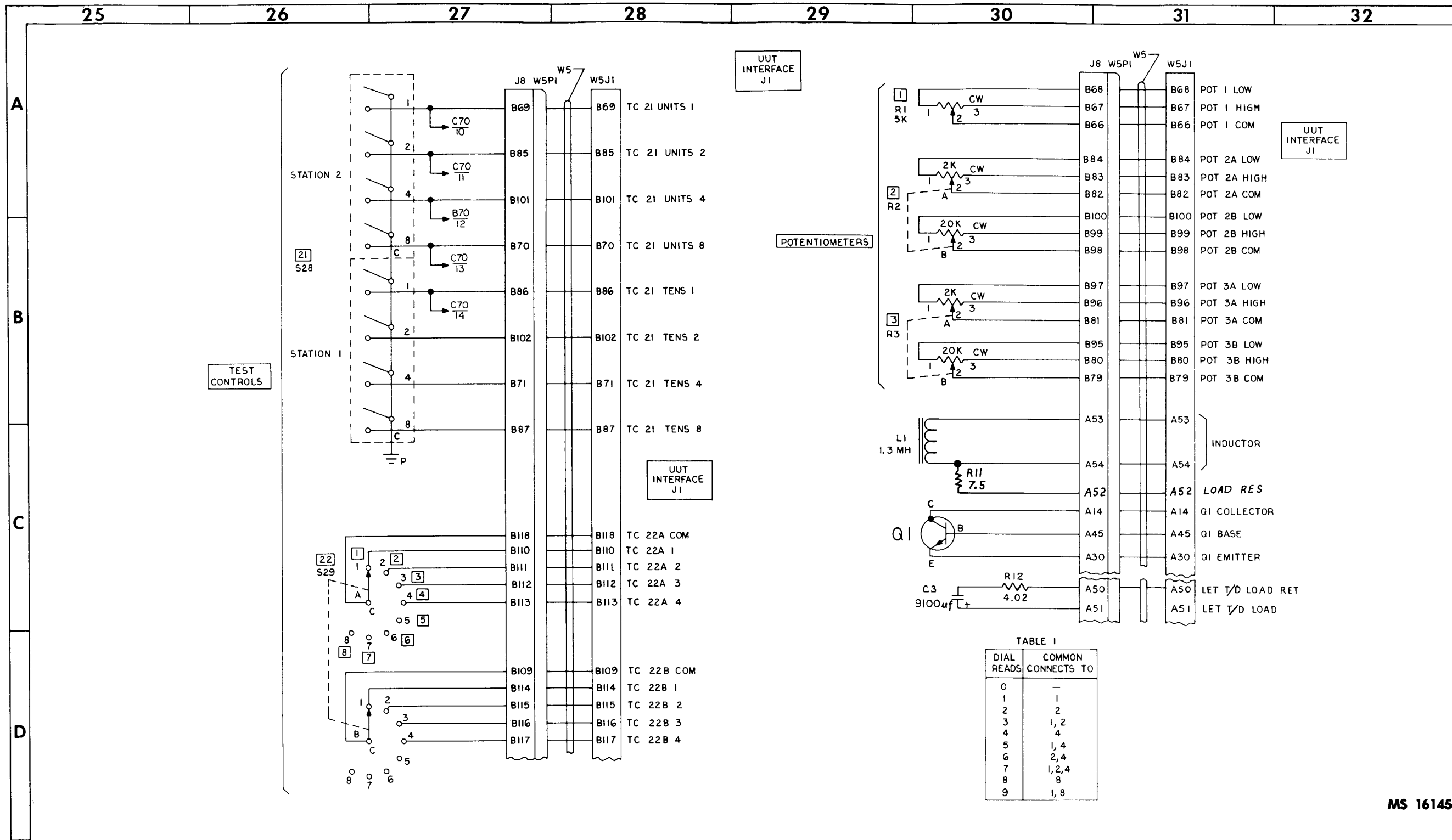


TABLE I

DIAL READS	COMMON CONNECTS TO
0	-
1	1
2	2
3	1, 2
4	4
5	1, 4
6	2, 4
7	1, 2, 4
8	8
9	1, 8

Figure 5-2. DMS-G - schematic diagram (sheet 5 of 10)

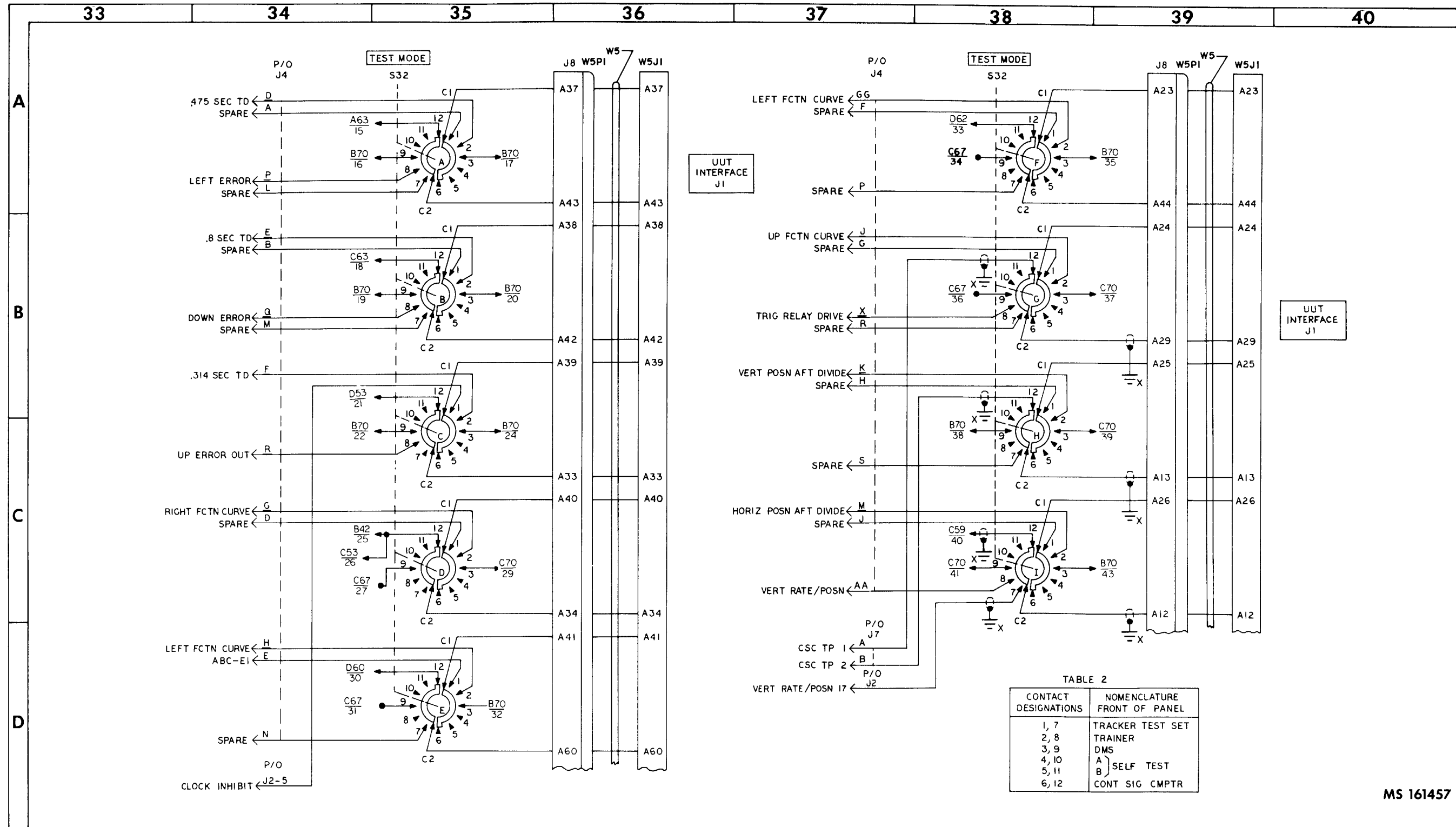


Figure 5-2. DMS-G- schematic diagram (sheet 6 of 10)

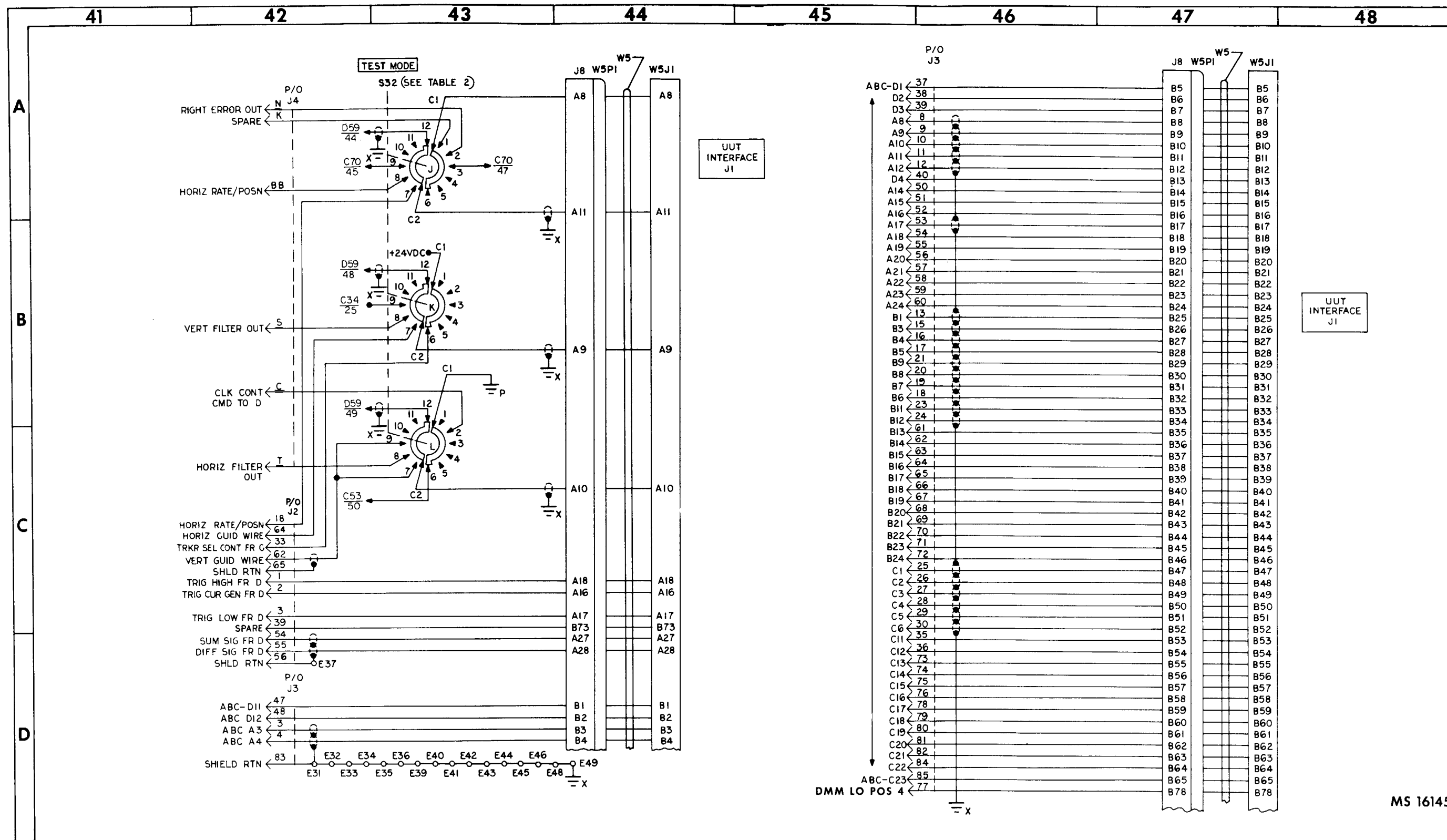
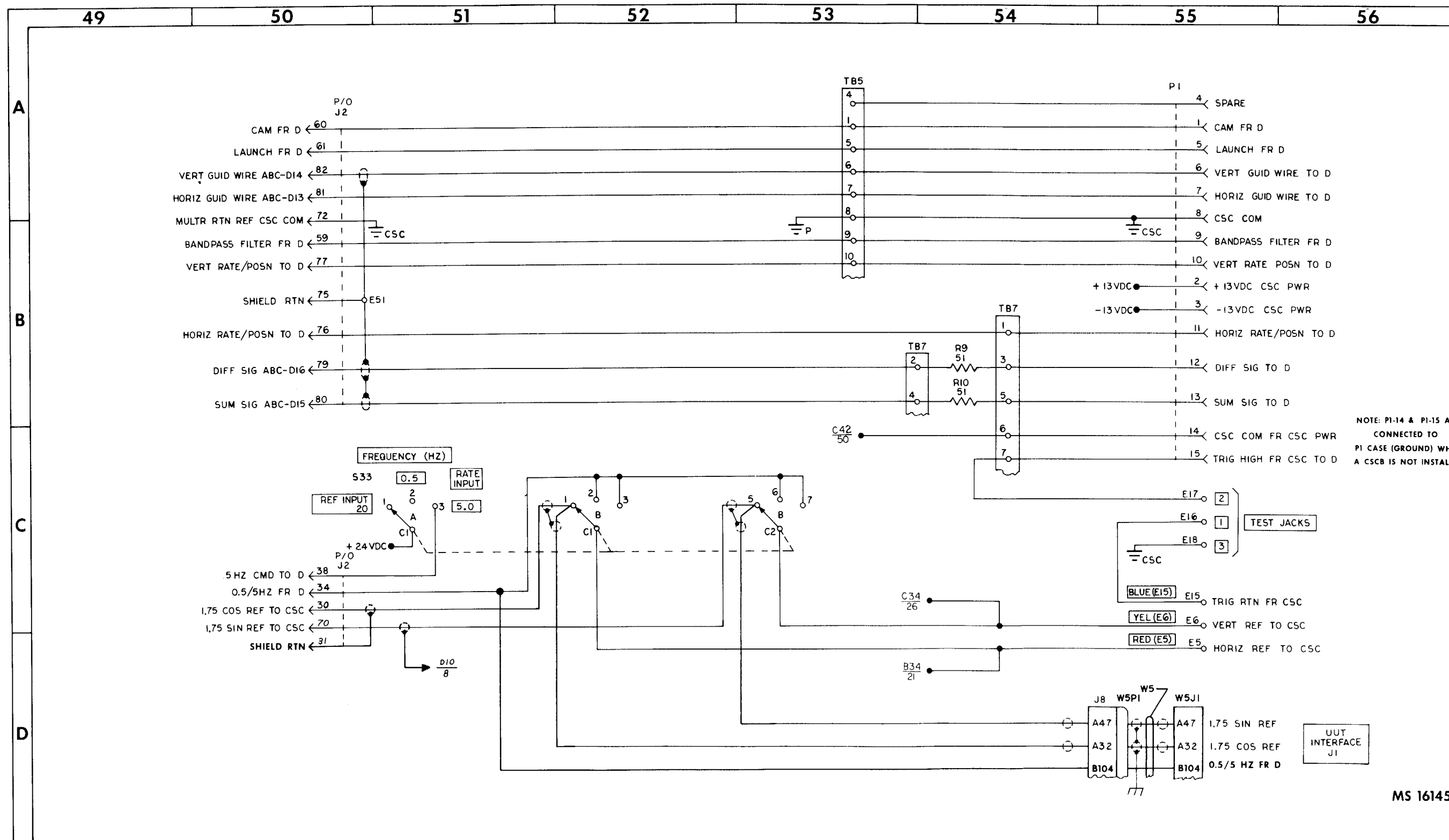


Figure 5-2. DMS-G - schematic diagram (sheet 7 of 10)



NOTE: PI-14 & PI-15 ARE CONNECTED TO PI CASE (GROUND) WHEN A CSCB IS NOT INSTALLED

Figure 5-2. DMS-G -schematic diagram (sheet 8 of 10)

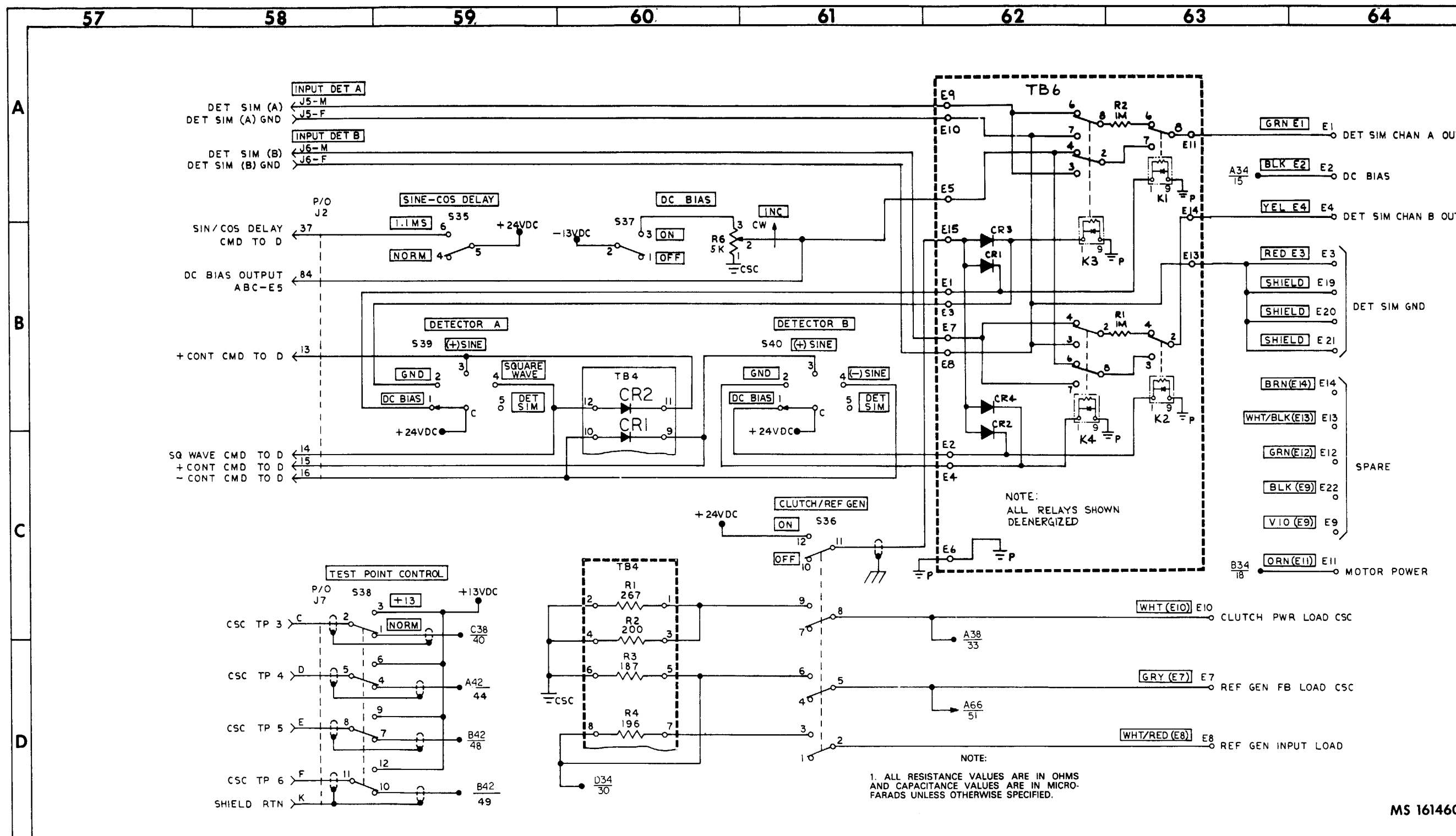
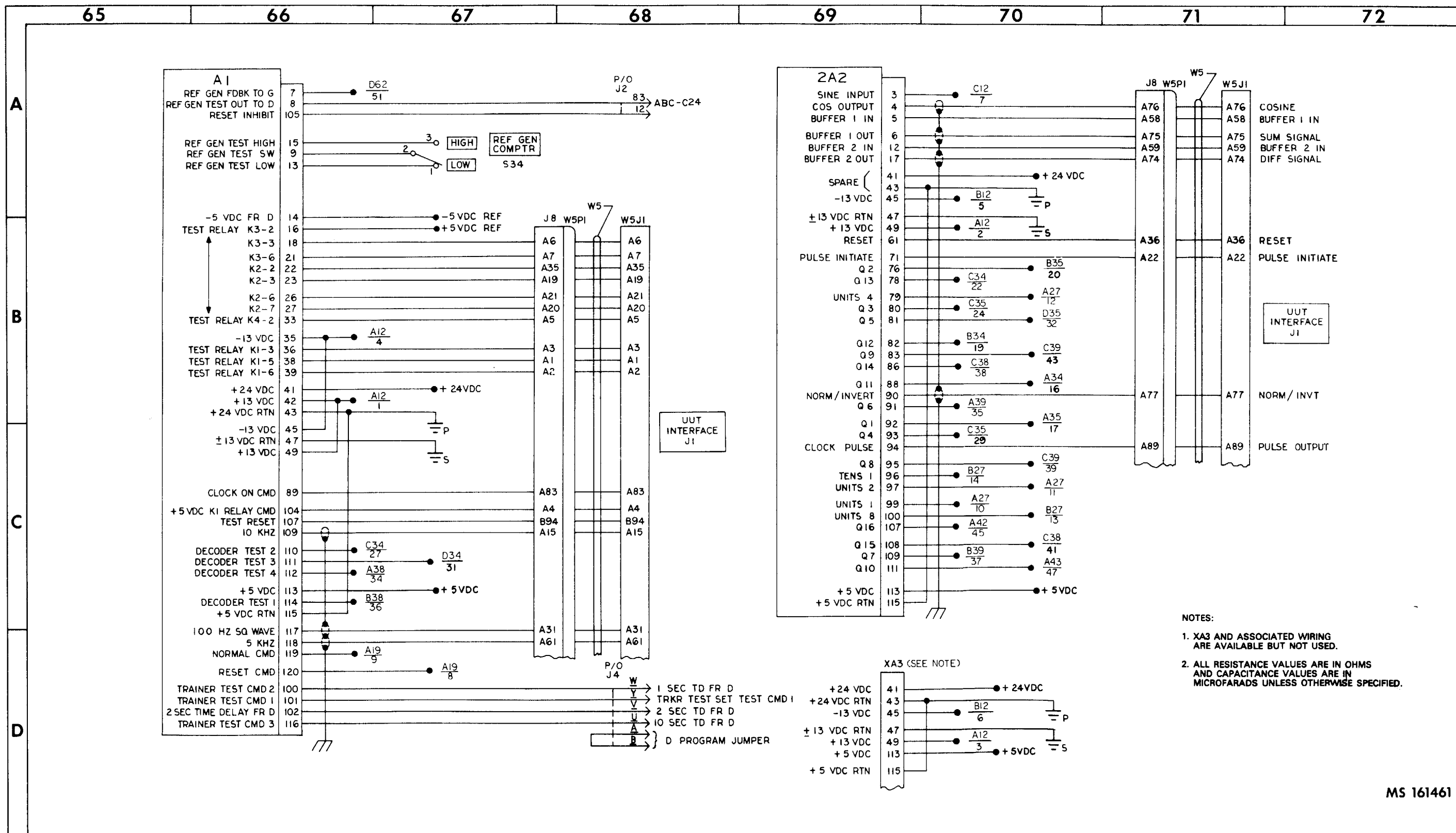


Figure 5-2. DMS-G - schematic diagram (sheet 9 of 10)



- NOTES:
1. XA3 AND ASSOCIATED WIRING ARE AVAILABLE BUT NOT USED.
 2. ALL RESISTANCE VALUES ARE IN OHMS AND CAPACITANCE VALUES ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

Figure 5-2 . DMS-G-schematic diagram (sheet 10 of 10)

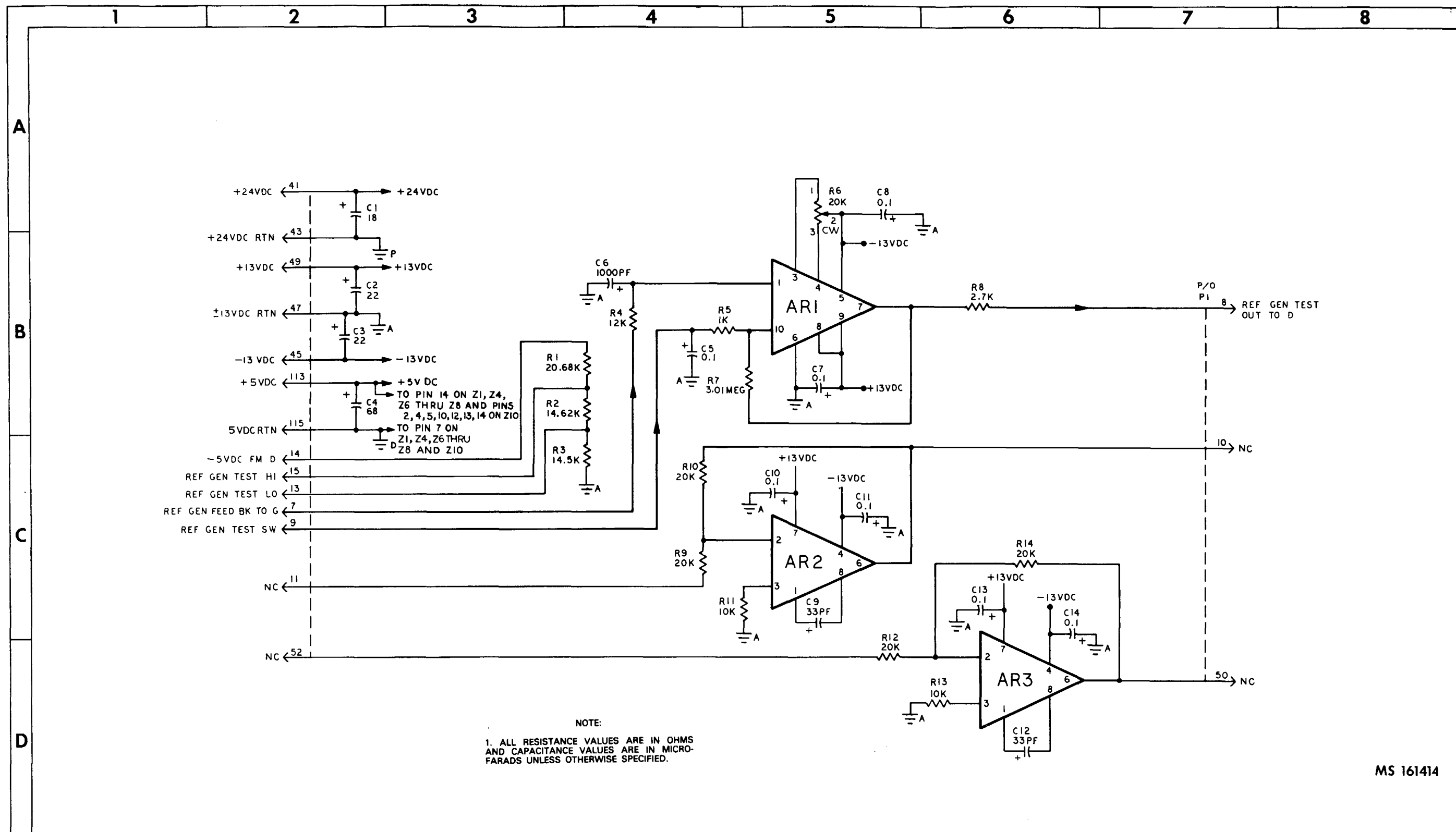


Figure 5-3. DMS-G card 2A1 schematic diagram (sheet 1 of 3)

MS 161414

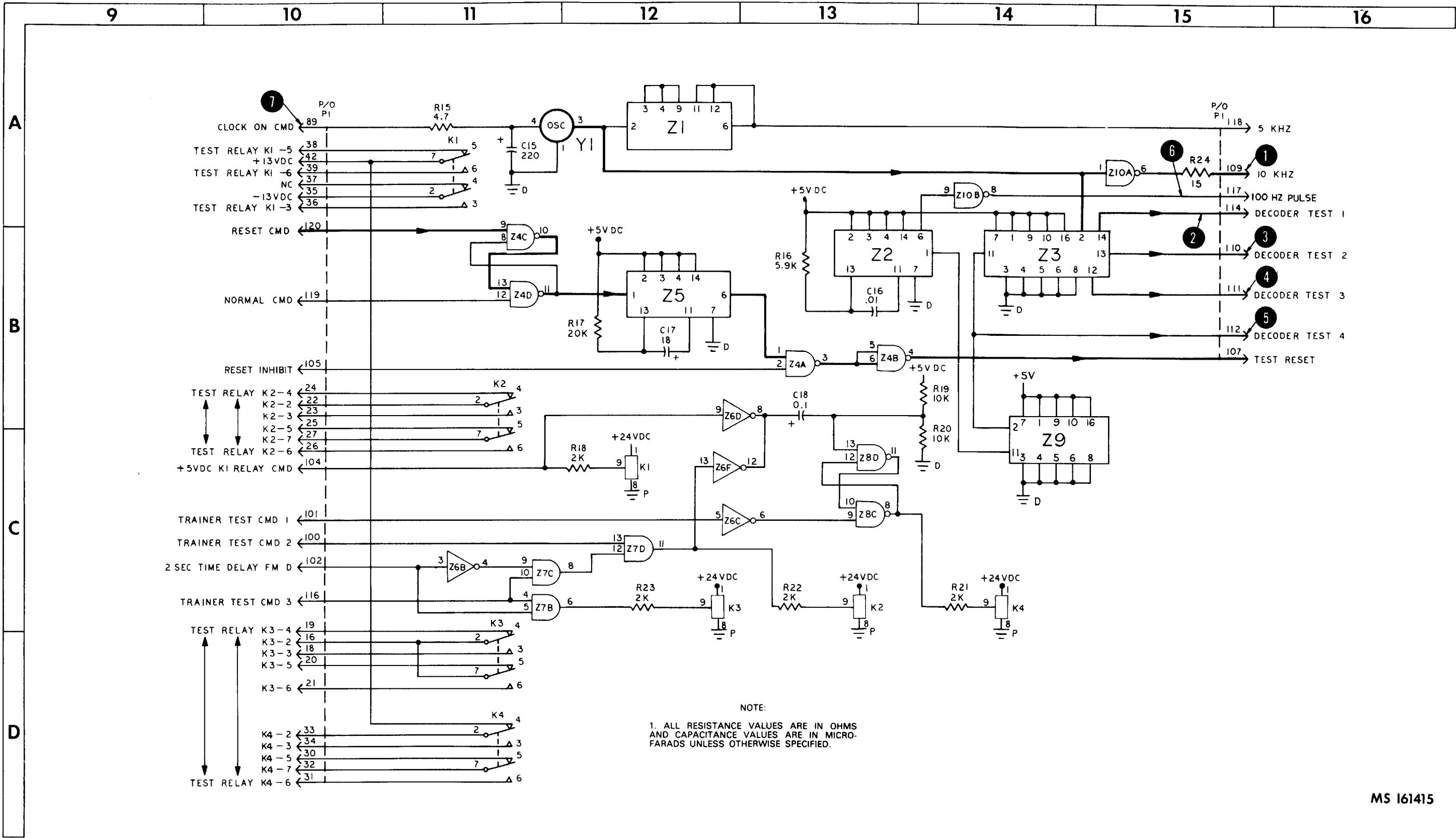
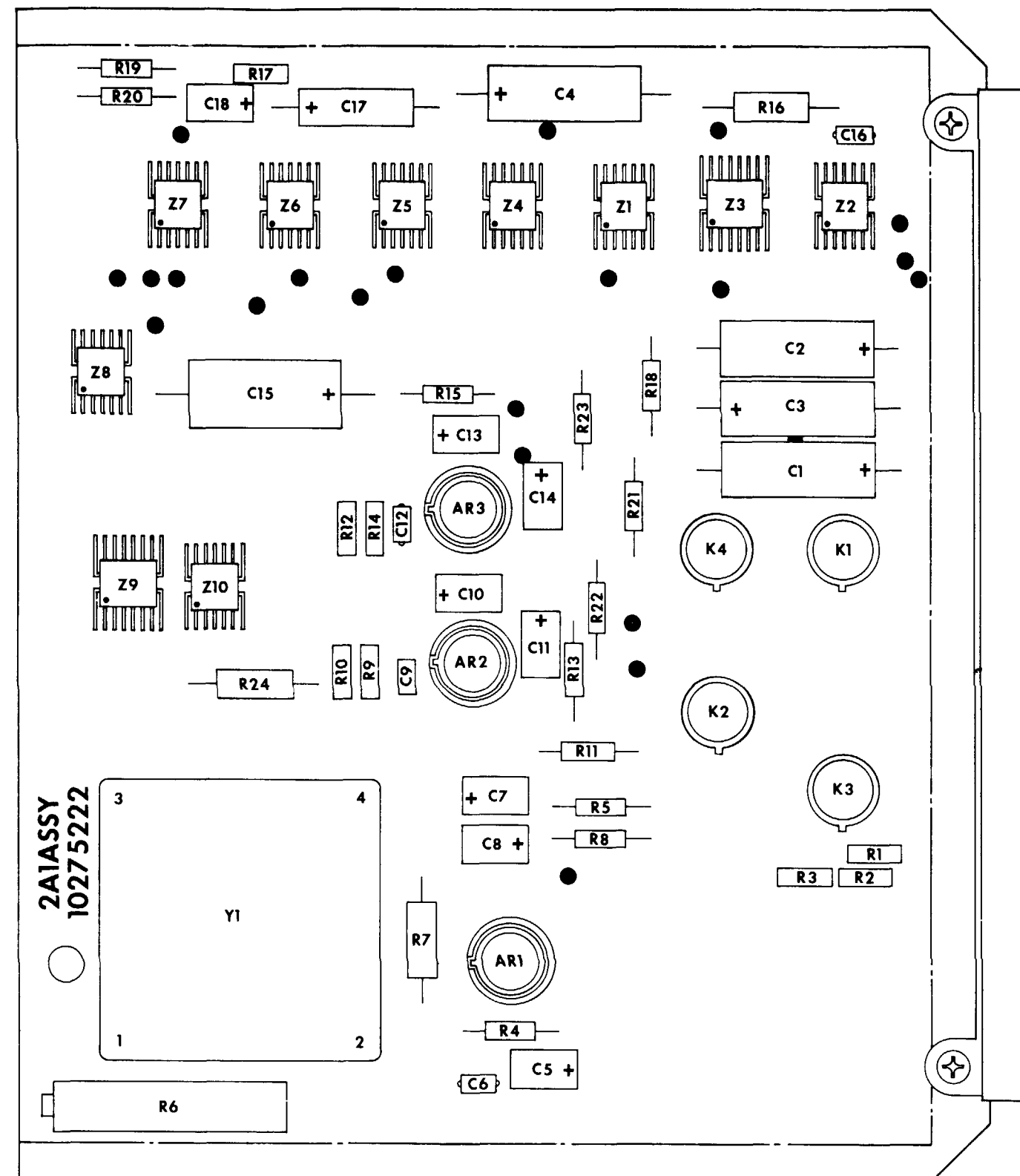
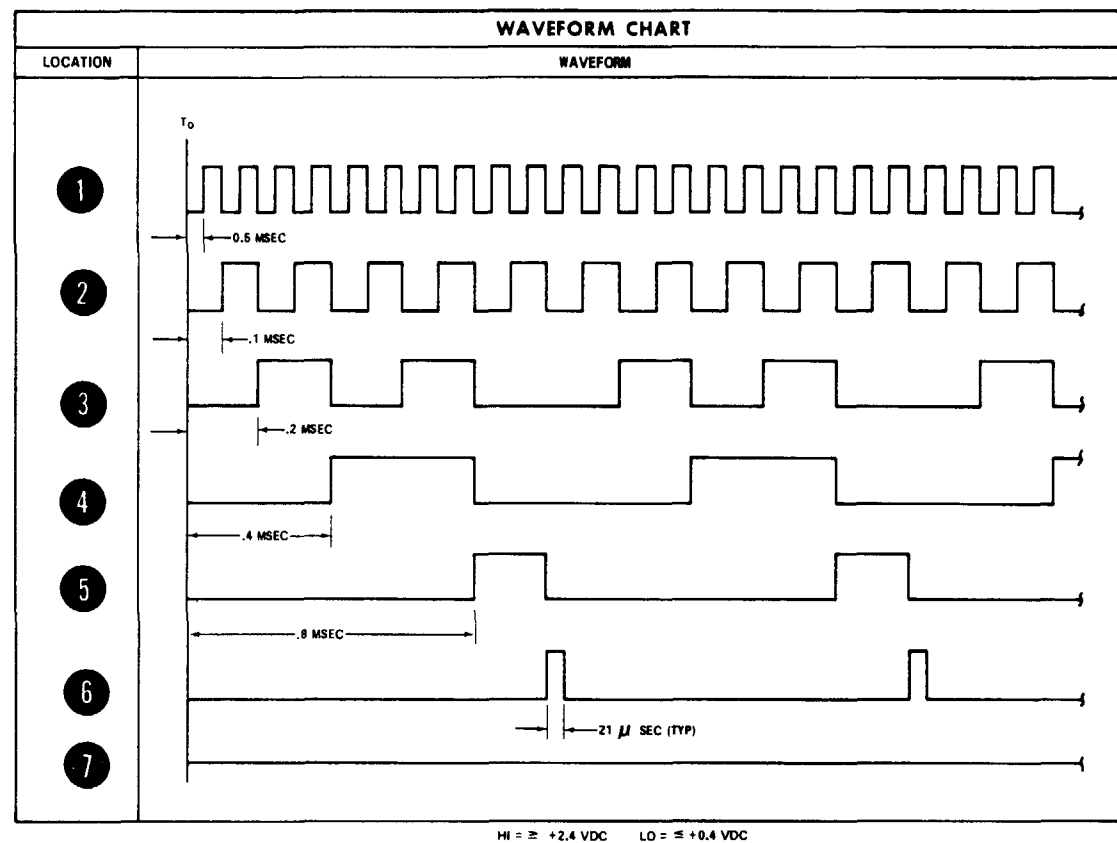


Figure 5-3. DMS-G card 2A1 schematic diagram (sheet 2 of 3)



MS 161416

Figure 5-3. DMS-G card 2A1 (10275222) - schematic diagram (sheet 3 of 3)

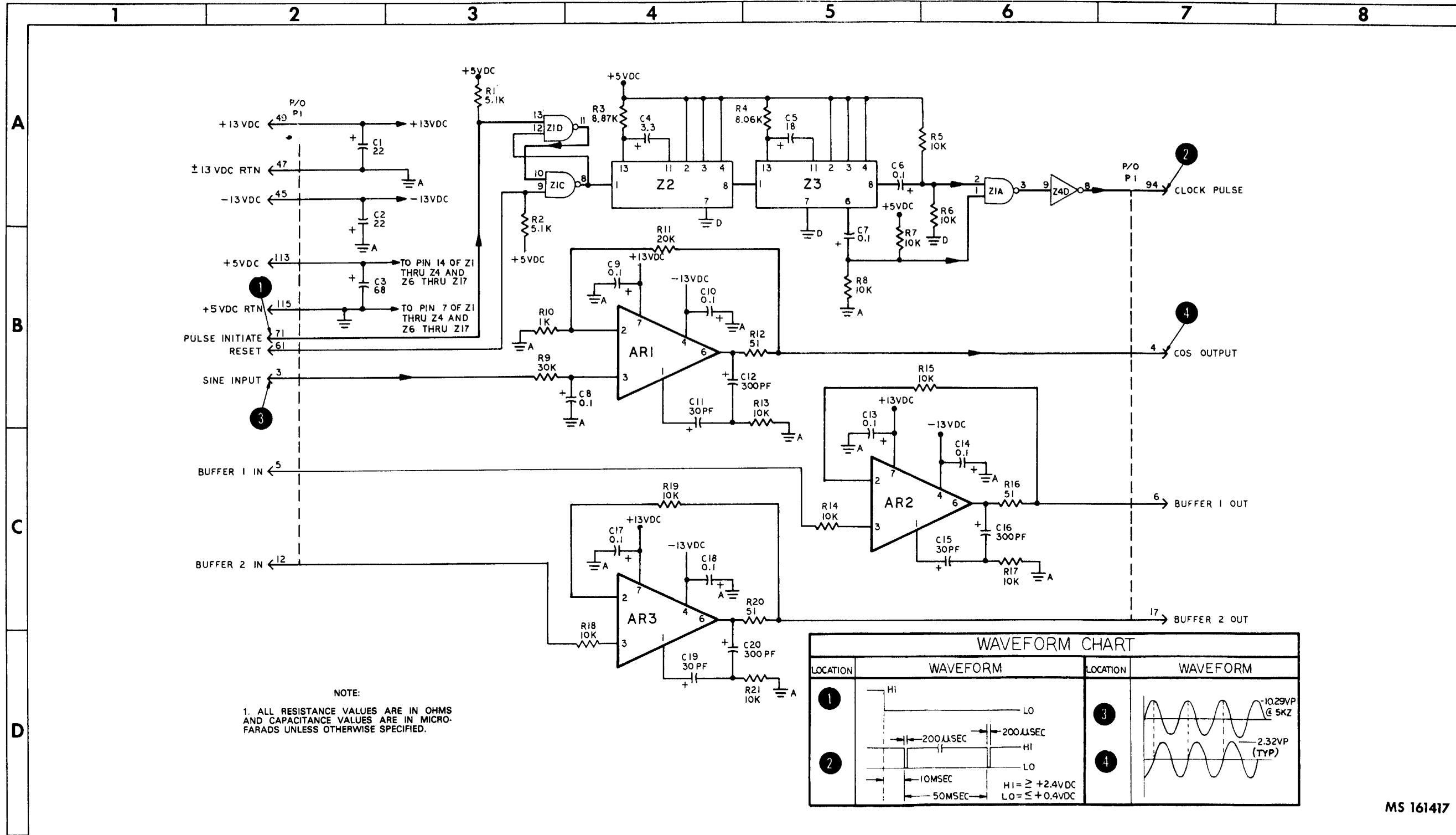
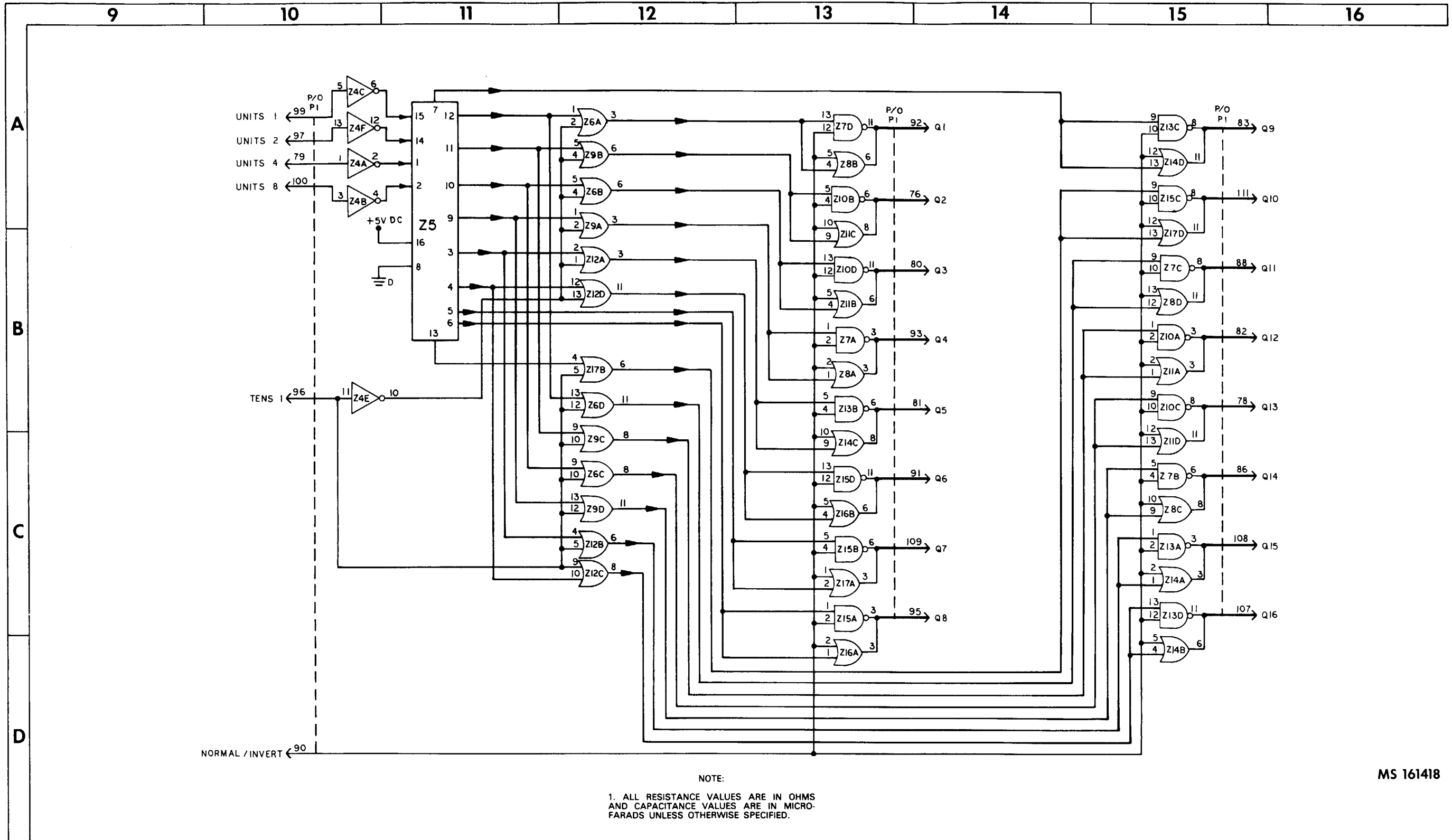


Figure 5-4. DMS-G card 2A2 schematic diagram (sheet 1 of 3)



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

Figure 5-4. DMS-G card 2A2
 schematic diagram (sheet 2 of 3)

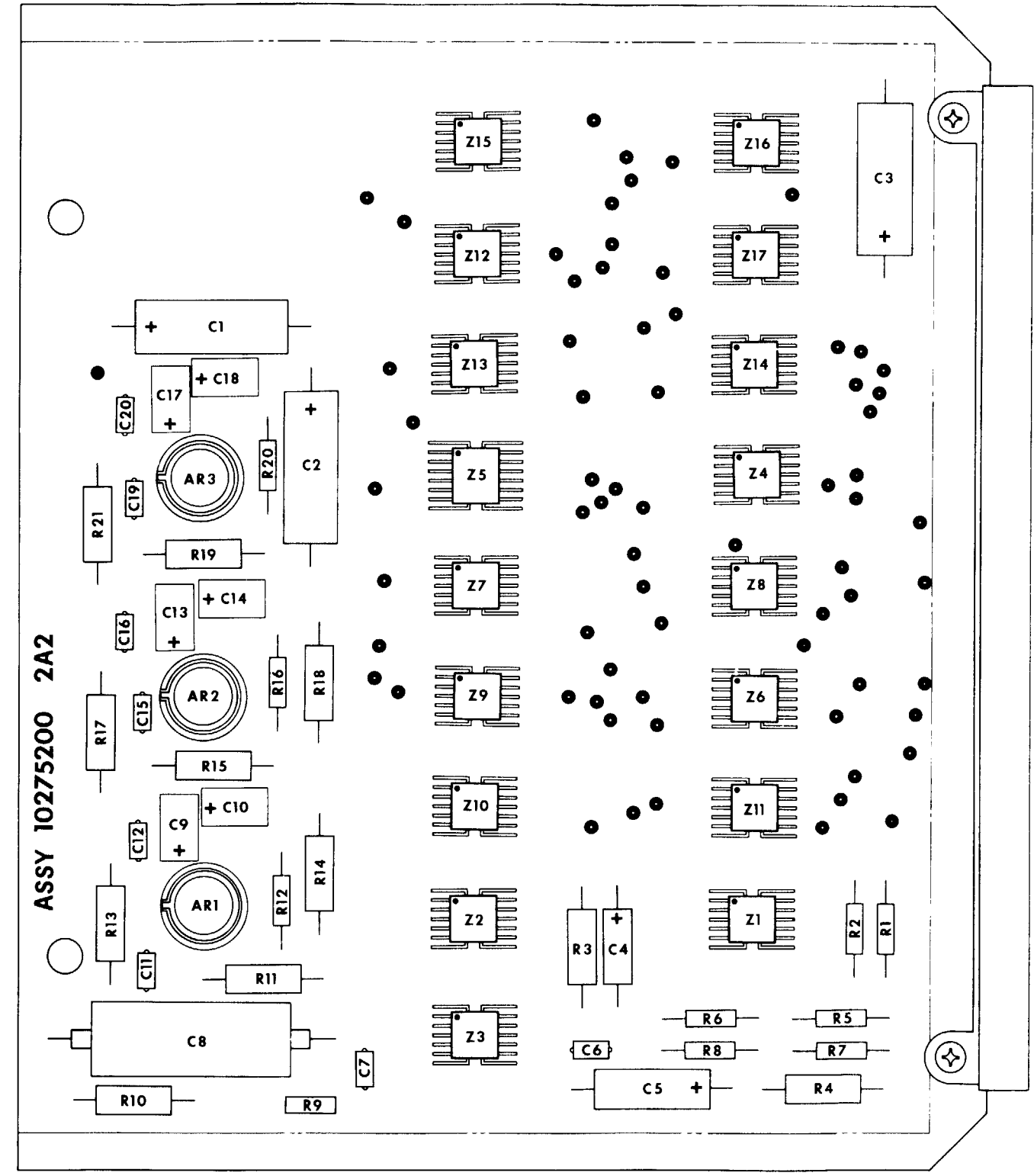


Figure 5-4. DMS-G card 2A2 (10275200) - schematic diagram (sheet 3 of 3)

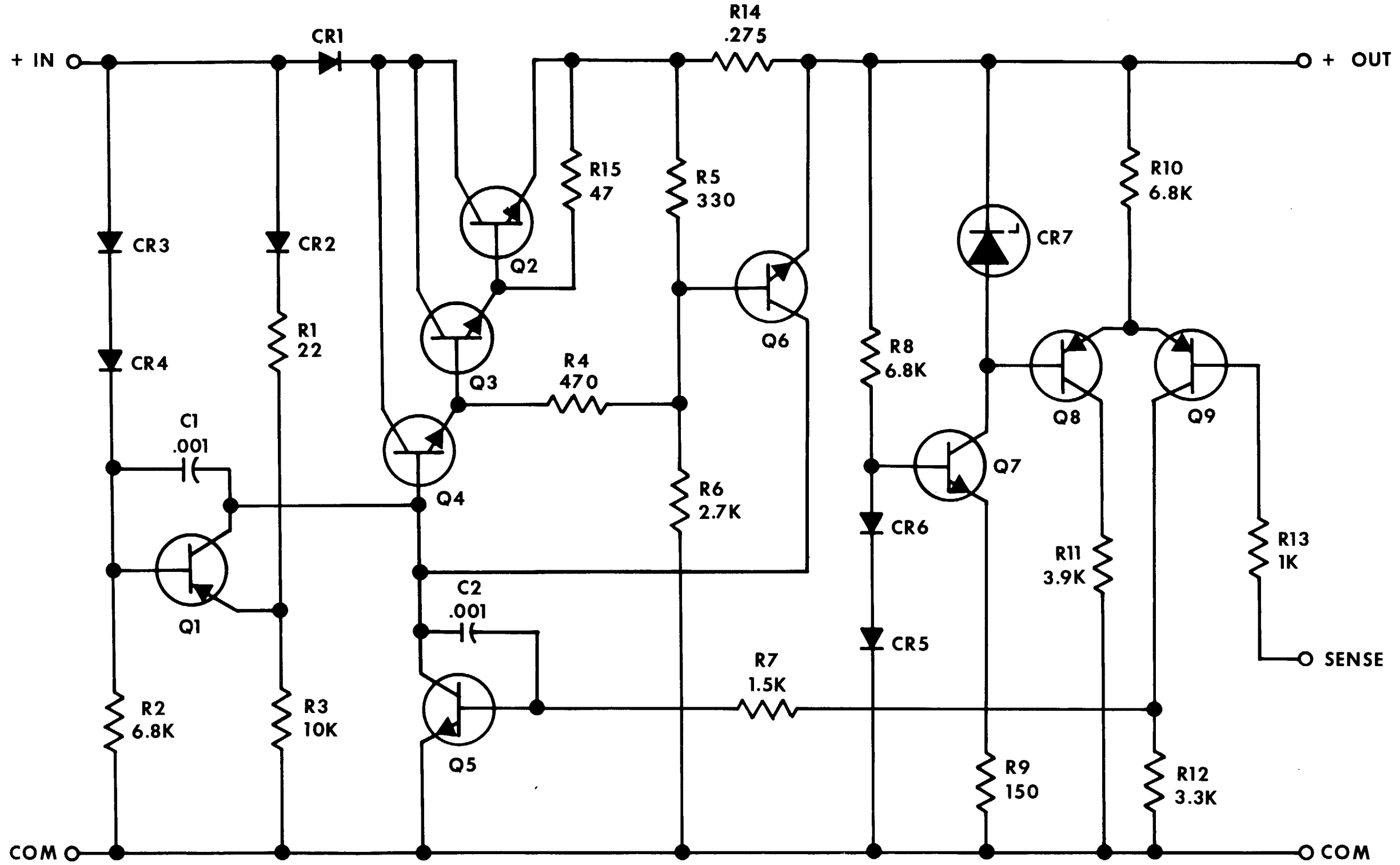


Figure 5-5. Positive Voltage Regulator (10275398-2) - schematic diagram

MS 161420

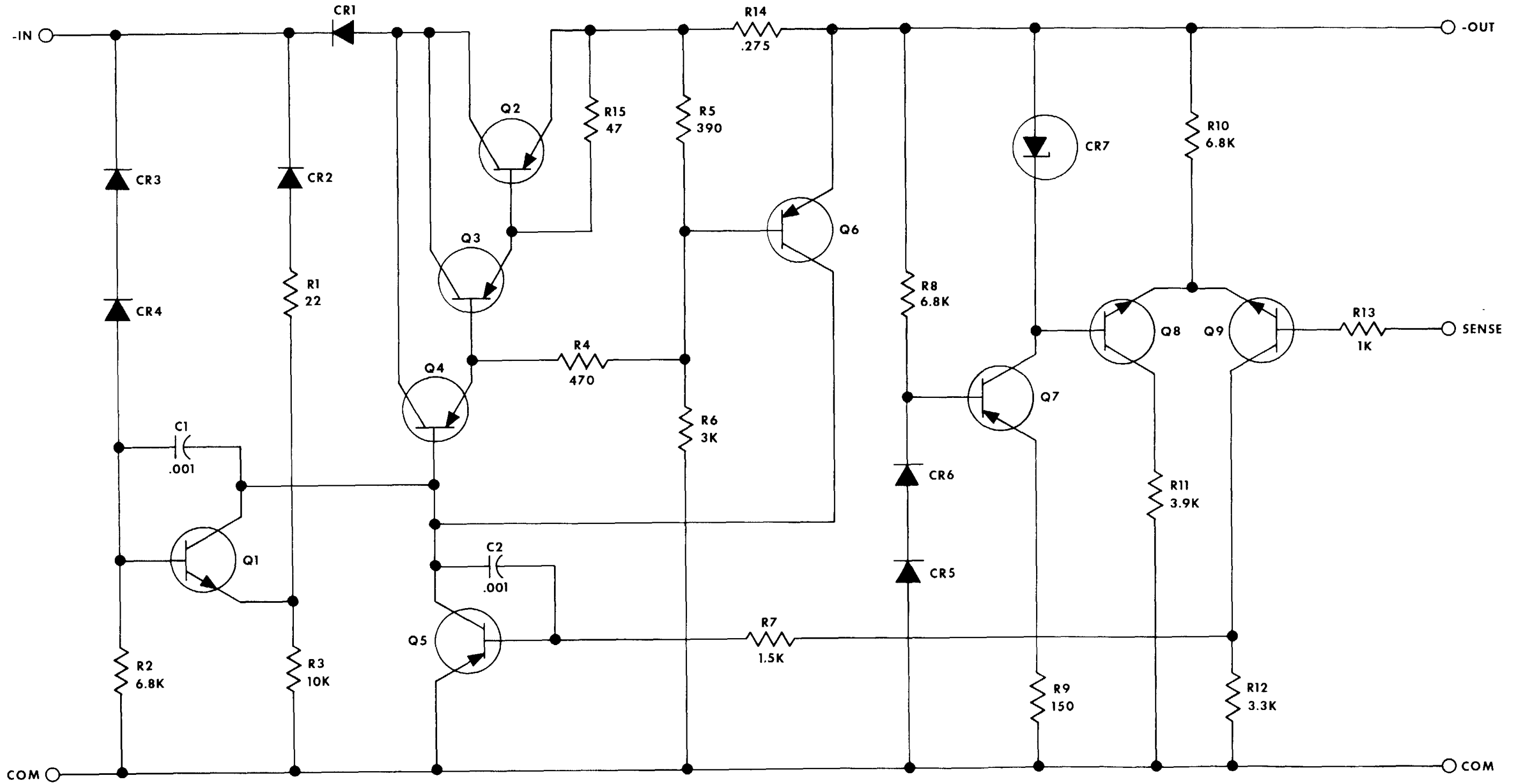


Figure 5-6. Negative Voltage Regulator (10275398-4) - schematic diagram

MS 161421

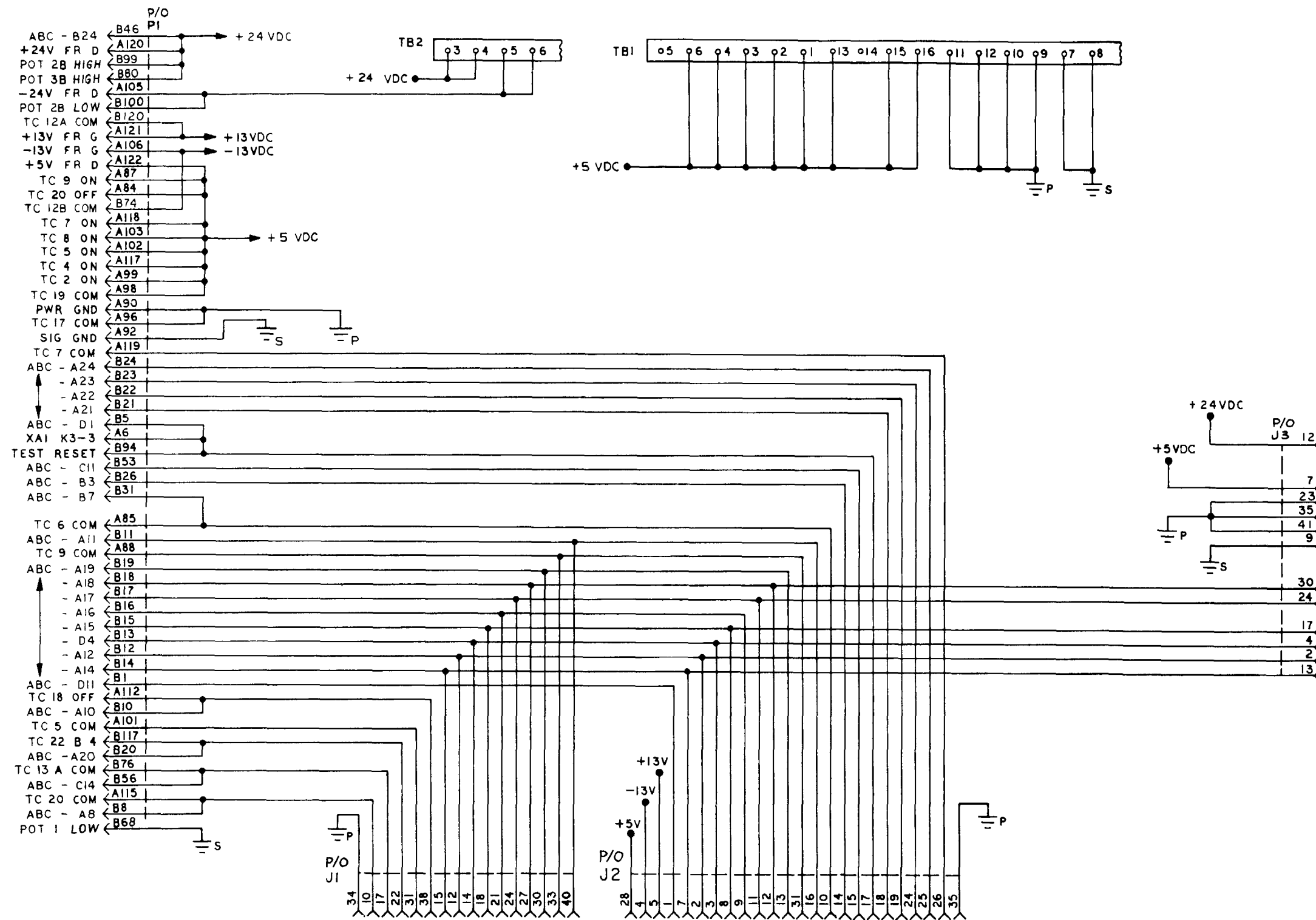


Figure 5-7. DMS-G test adapter A1 schematic diagram (sheet 1 of 3)

MS 161294

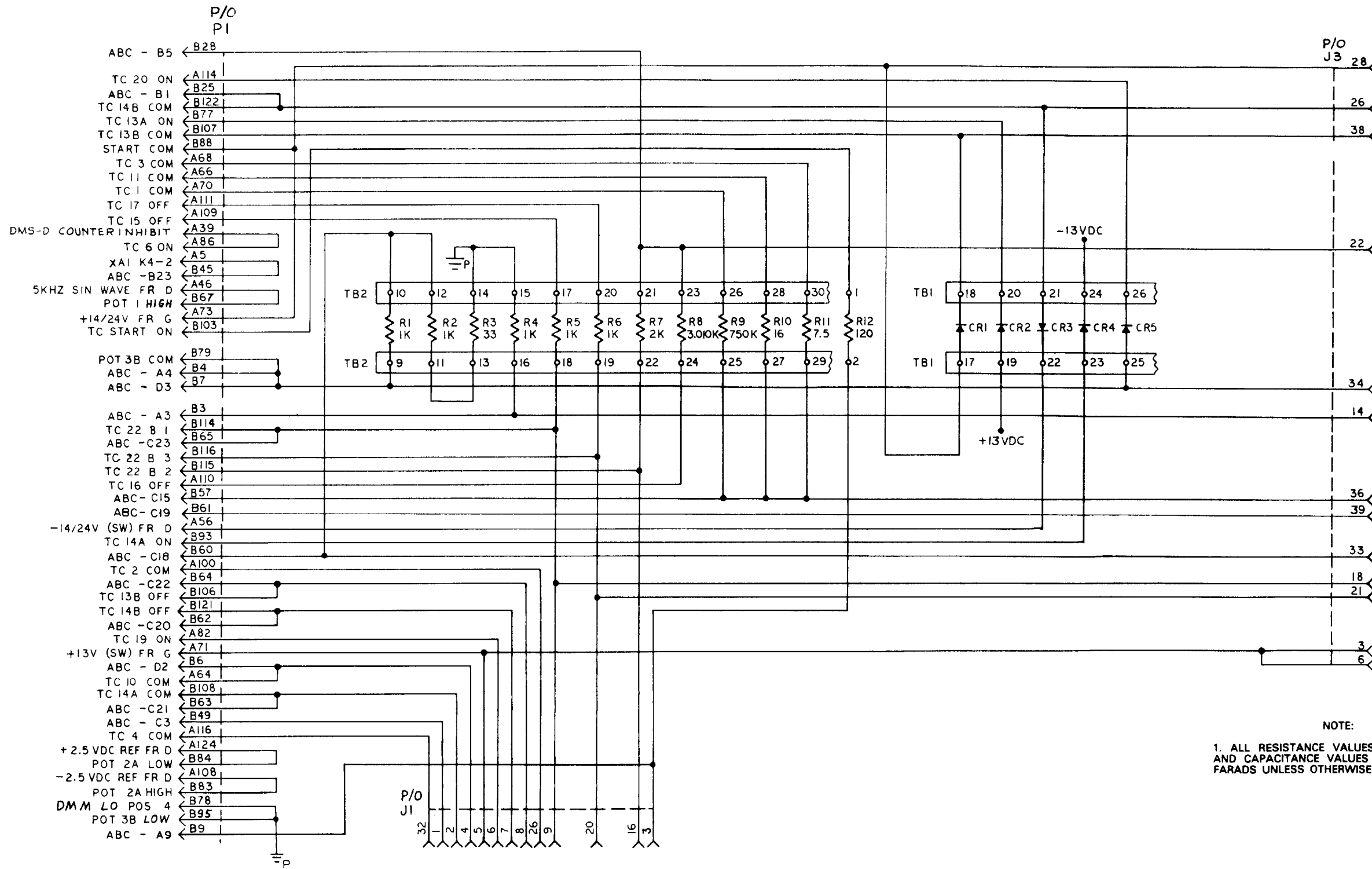


Figure 5-7. DMS-G test adapter A1 schematic diagram (sheet 2 of 3)

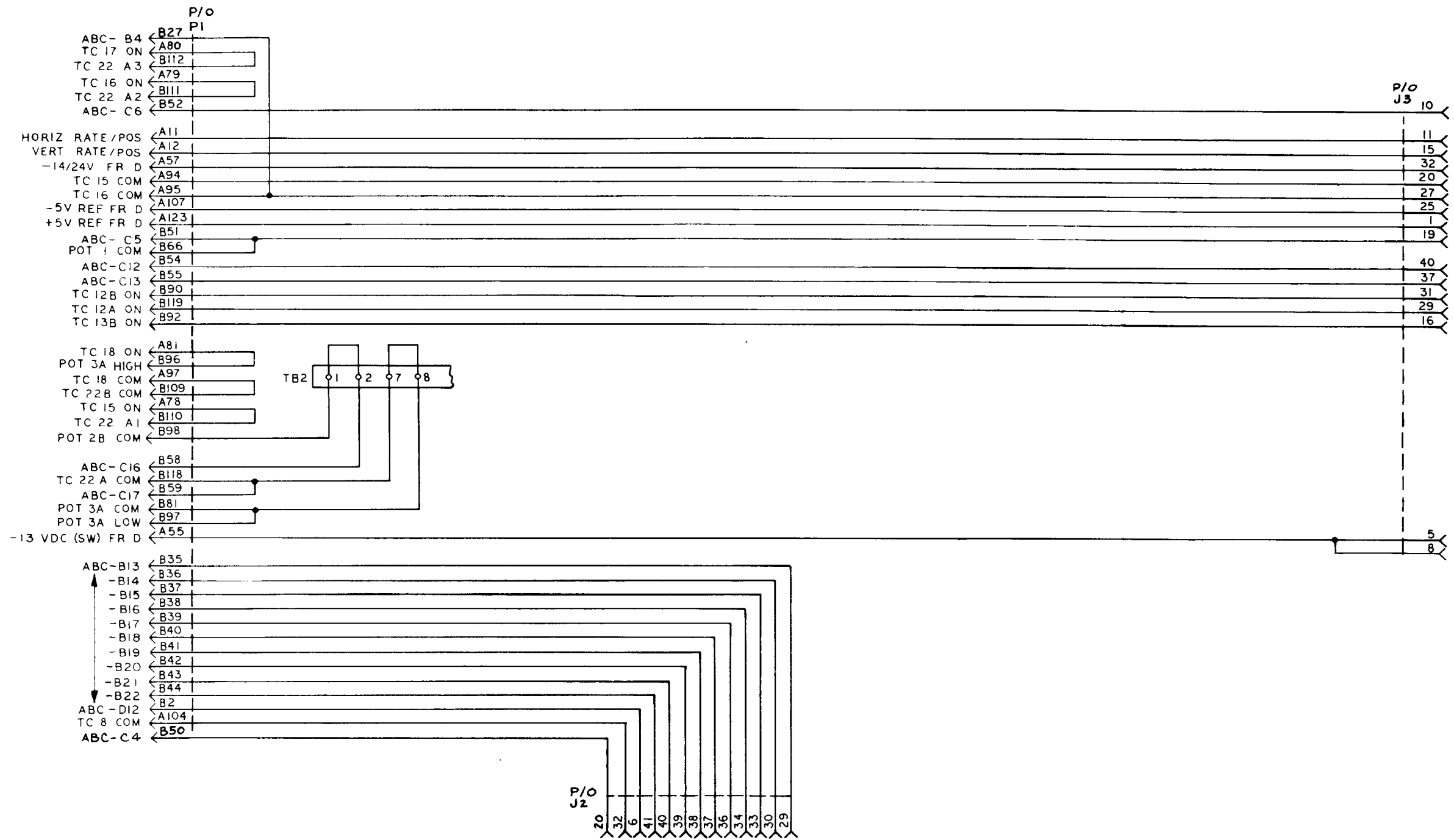


Figure 5-7. DMS-G test adapter AI (10275268) - schematic diagram (sheet 3 of 3)

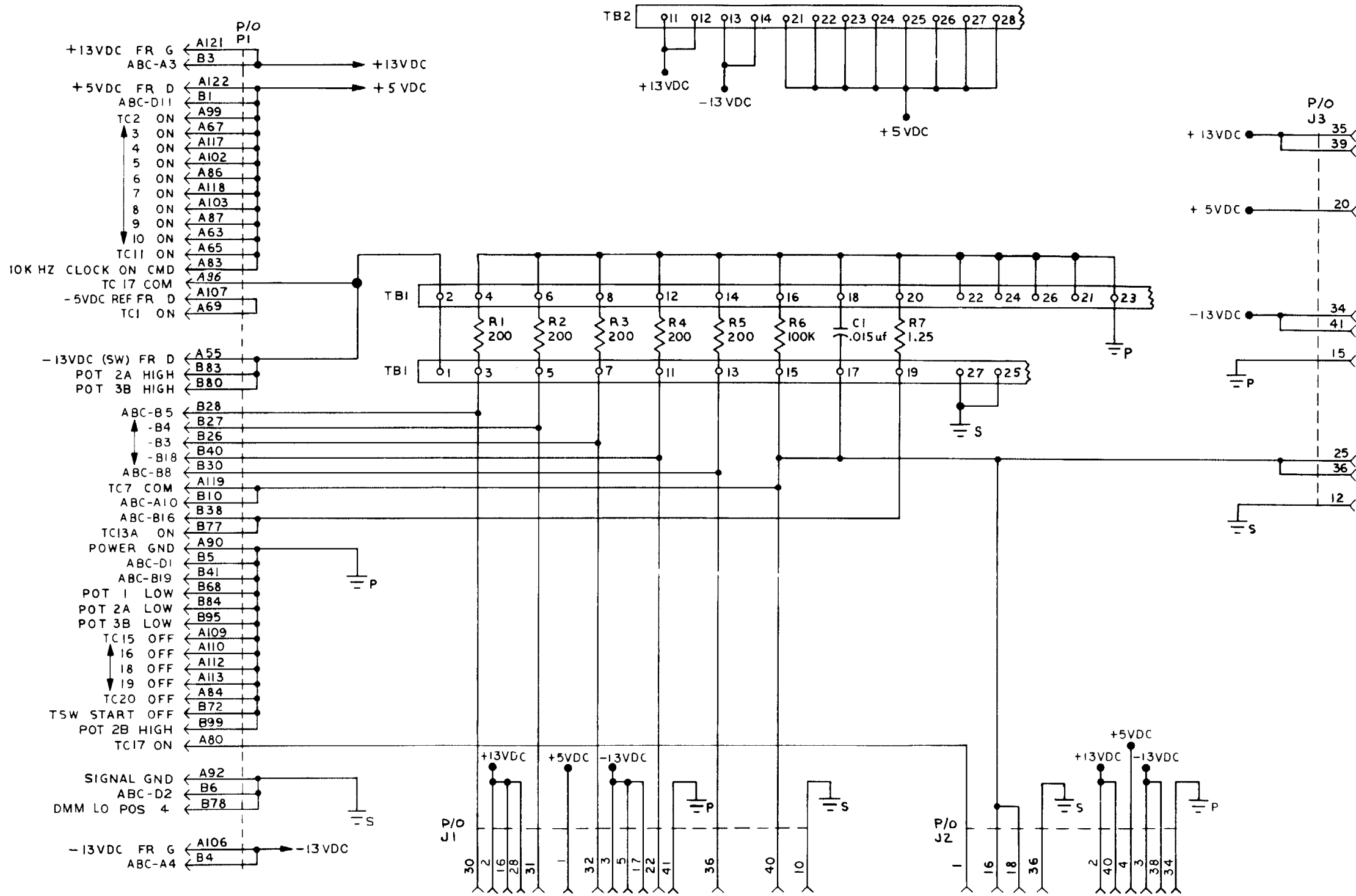


Figure 5-8. DMS-G test adapter A2 (10275269) - schematic diagram (sheet 1 of 3)

MS 161297

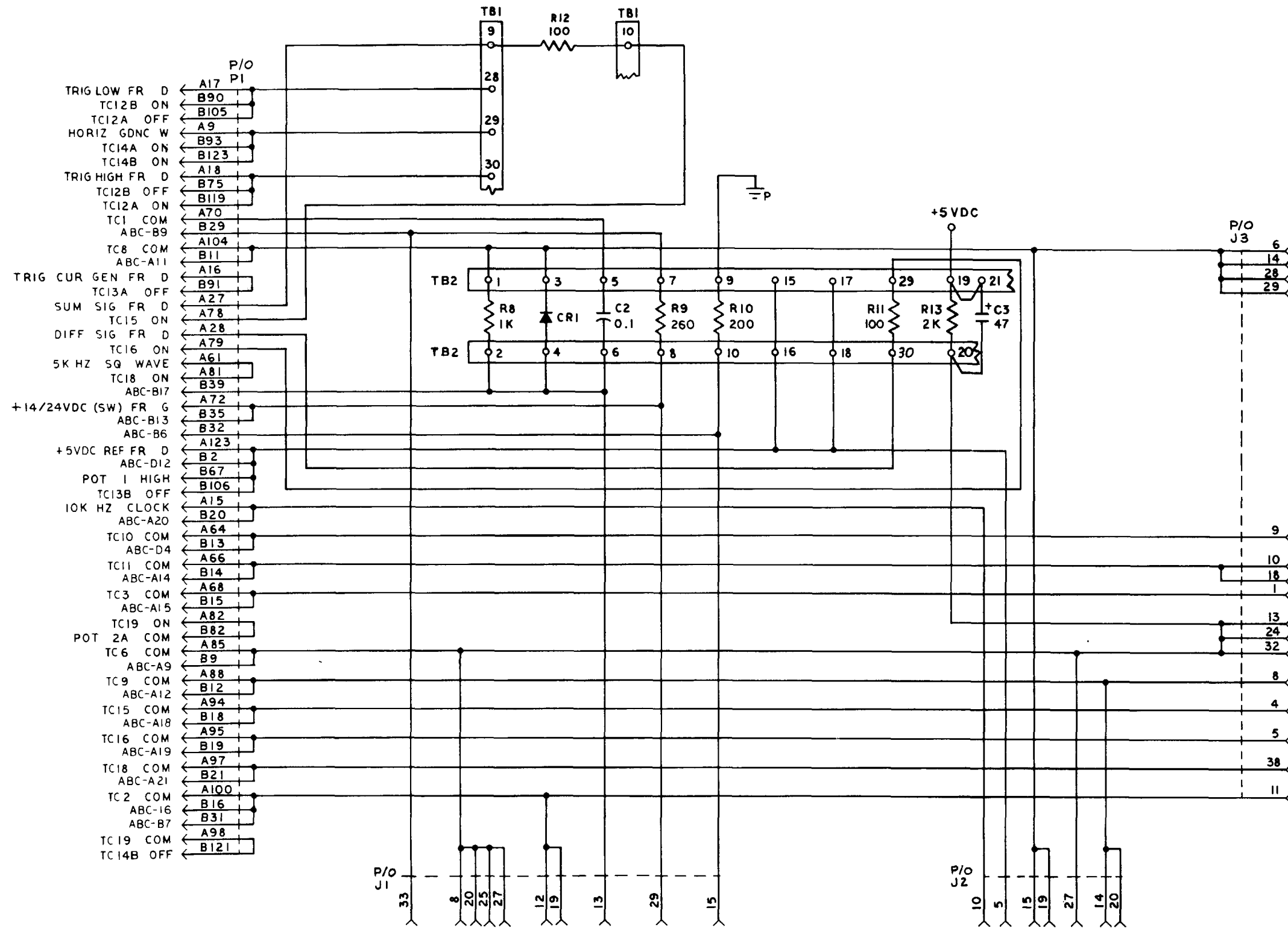


Figure 5-8. DMS-G test adapter A2 (10275269) - schematic diagram (sheet 2 of 3)

MS 161298

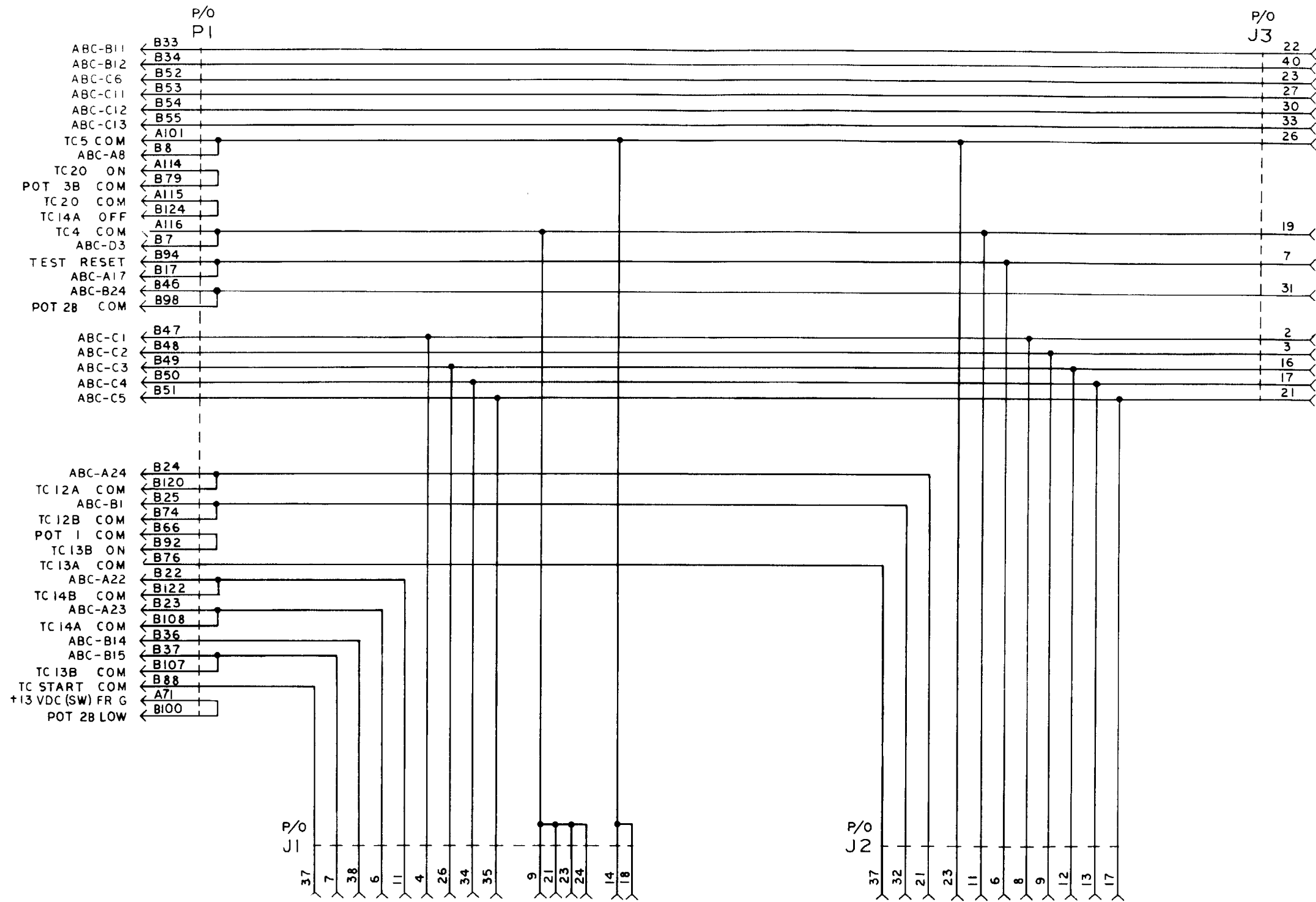


Figure 5-8. DMS-G test adapter A2 (10275269) - schematic diagram (sheet 3 of 3)

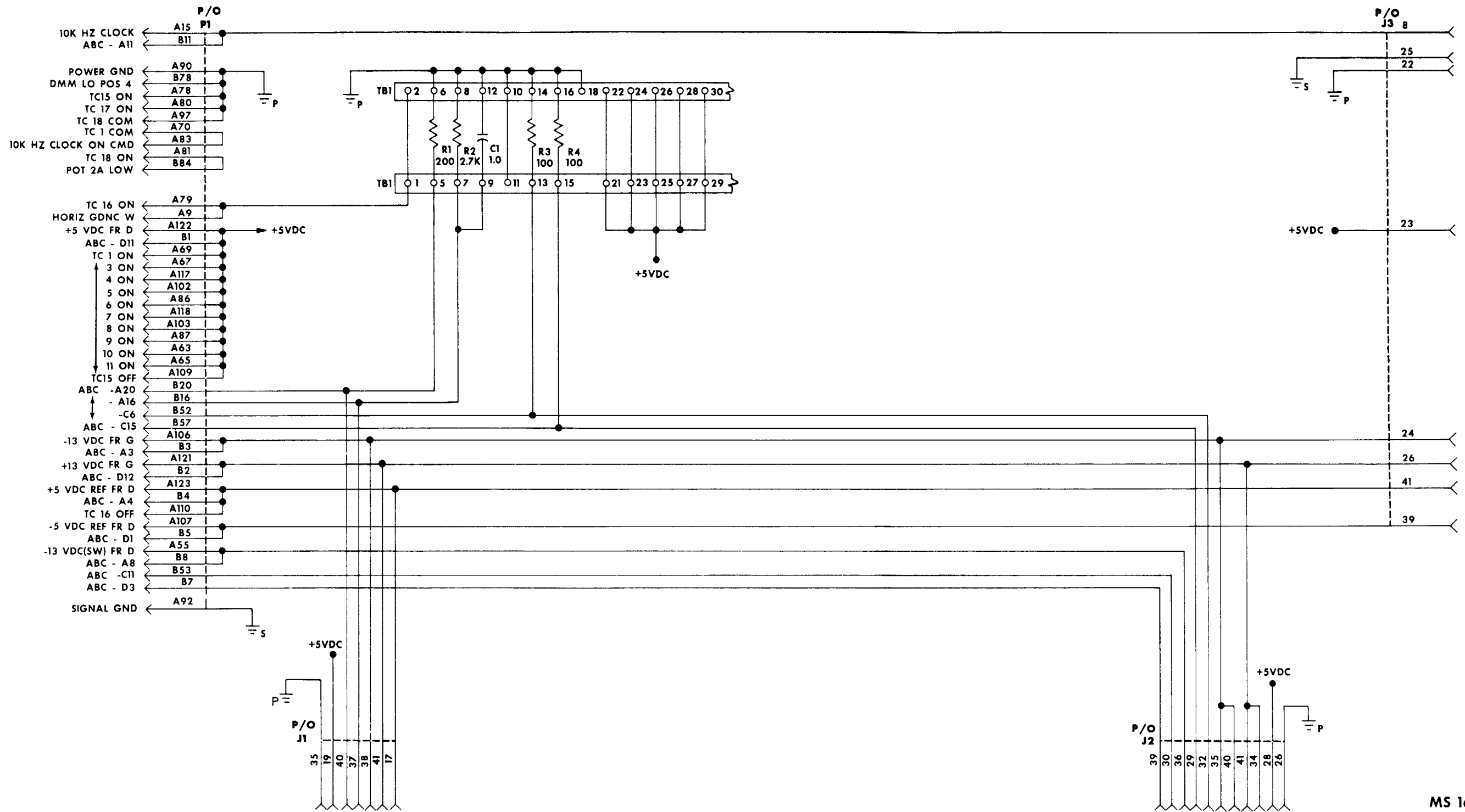


Figure 5-9. DMS-G test adapter A3 (10275270) - schematic diagram (sheet 1 of 2)

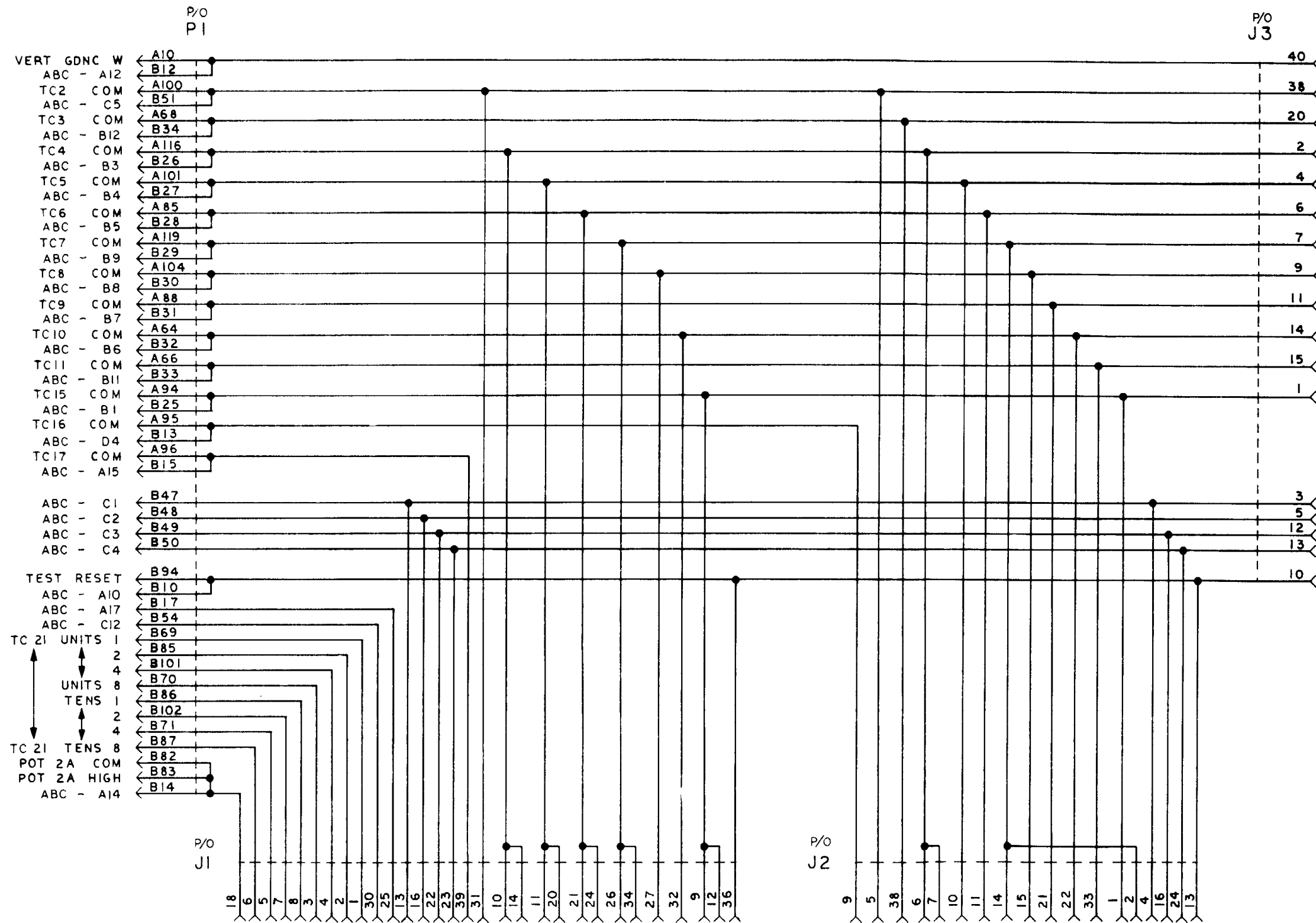
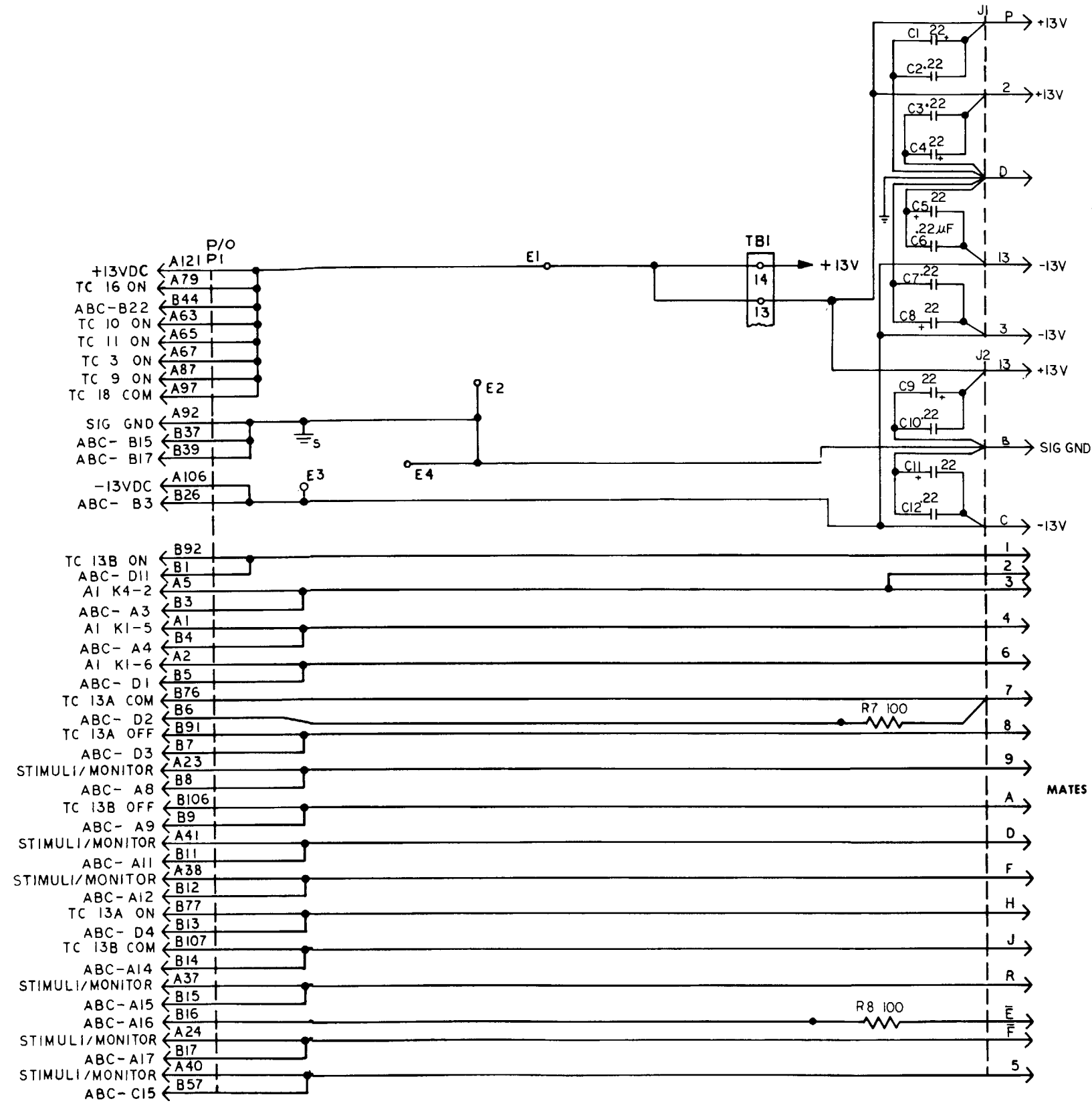


Figure 5-9. DMS-G test adapter A3 (10275270) - schematic diagram (sheet 2 of 2)

MS 161301

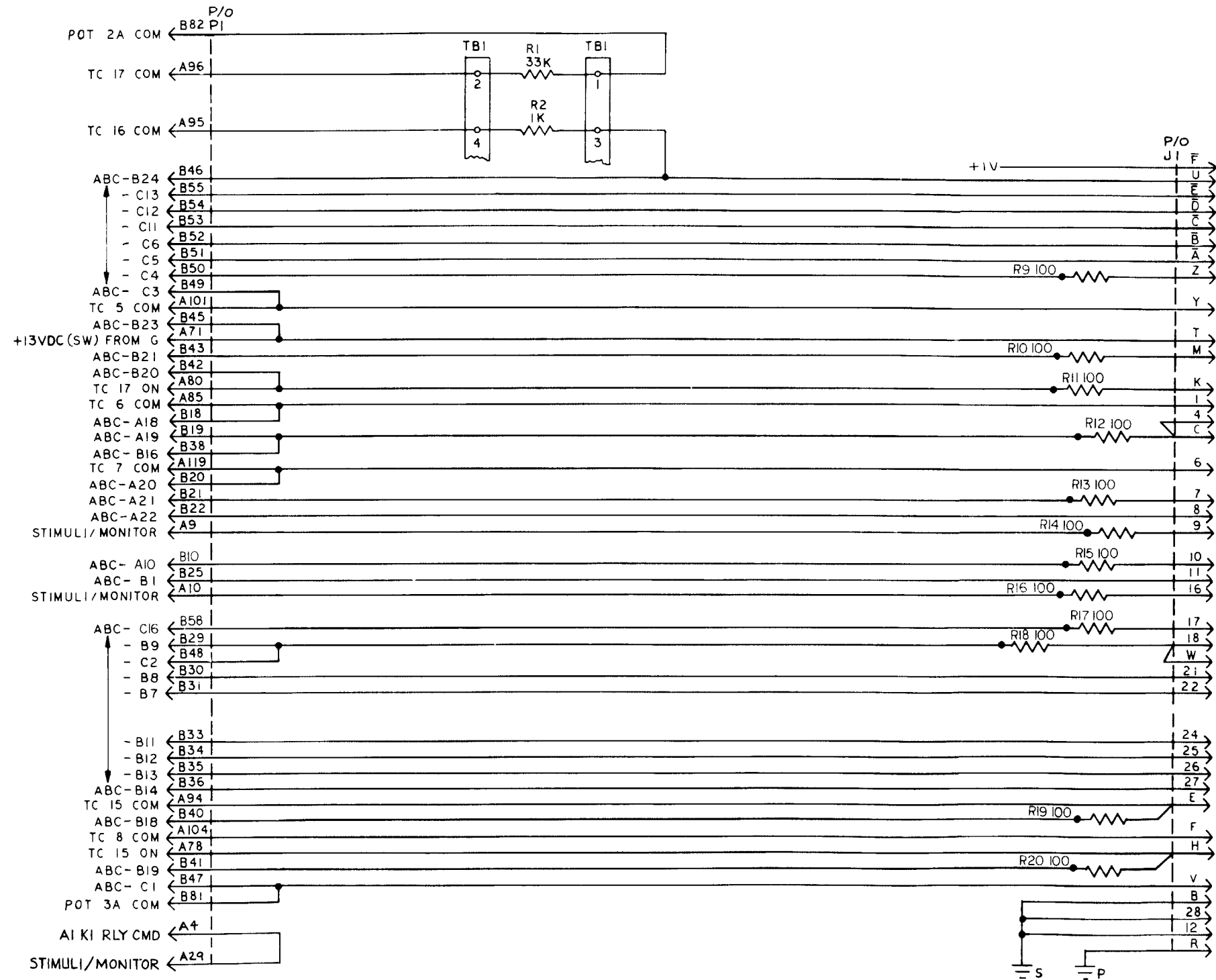


NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

MATES WITH MTS CARD A2

MS 161302

Figure 5-10. DMS-G test adapter A4 schematic diagram (sheet 1 of 3)

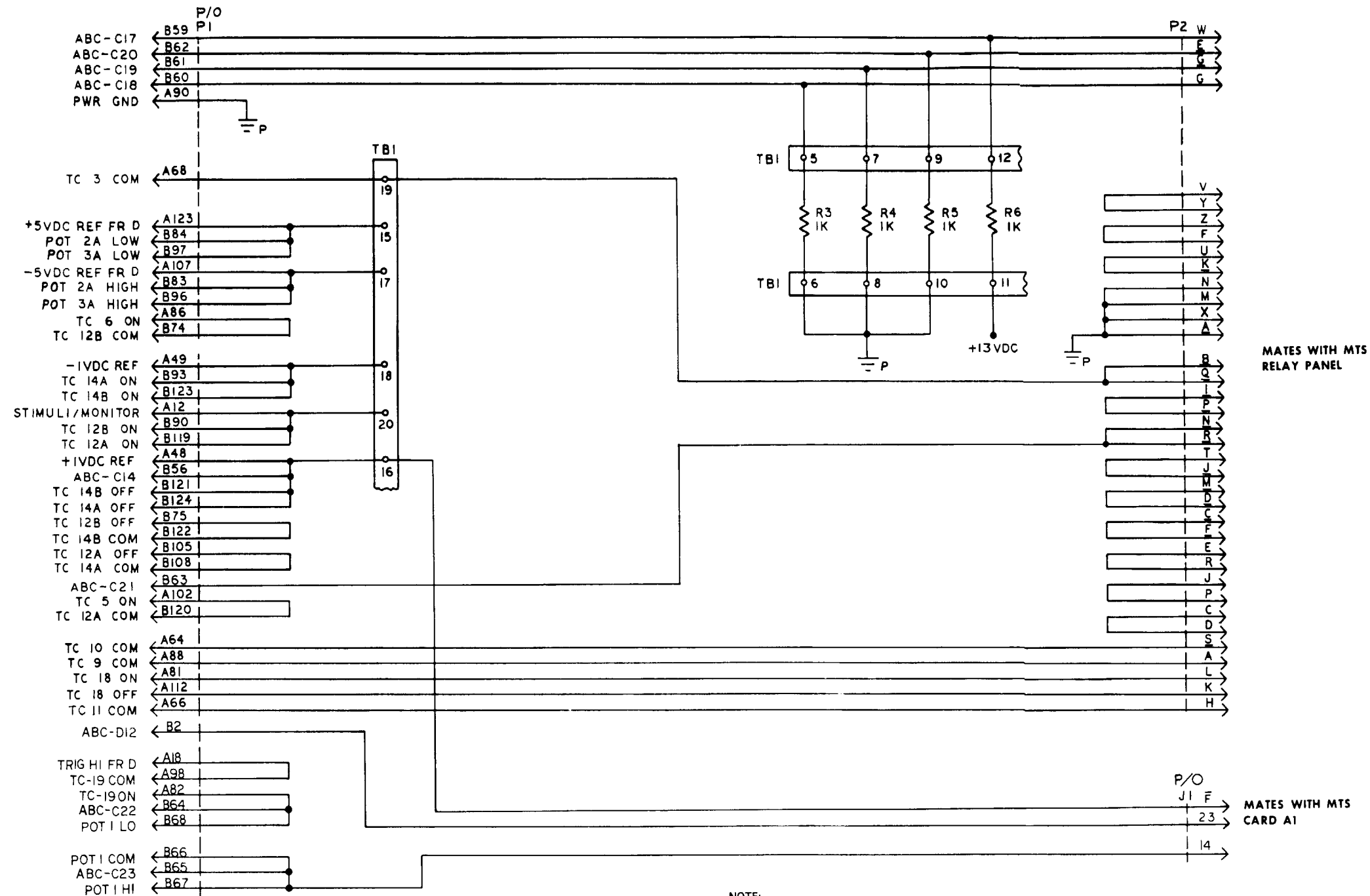


MATES WITH MTS
CARD A1

NOTE:
1. ALL RESISTANCE VALUES ARE IN OHMS
AND CAPACITANCE VALUES ARE IN MICRO-
FARADS UNLESS OTHERWISE SPECIFIED.

MS 161303

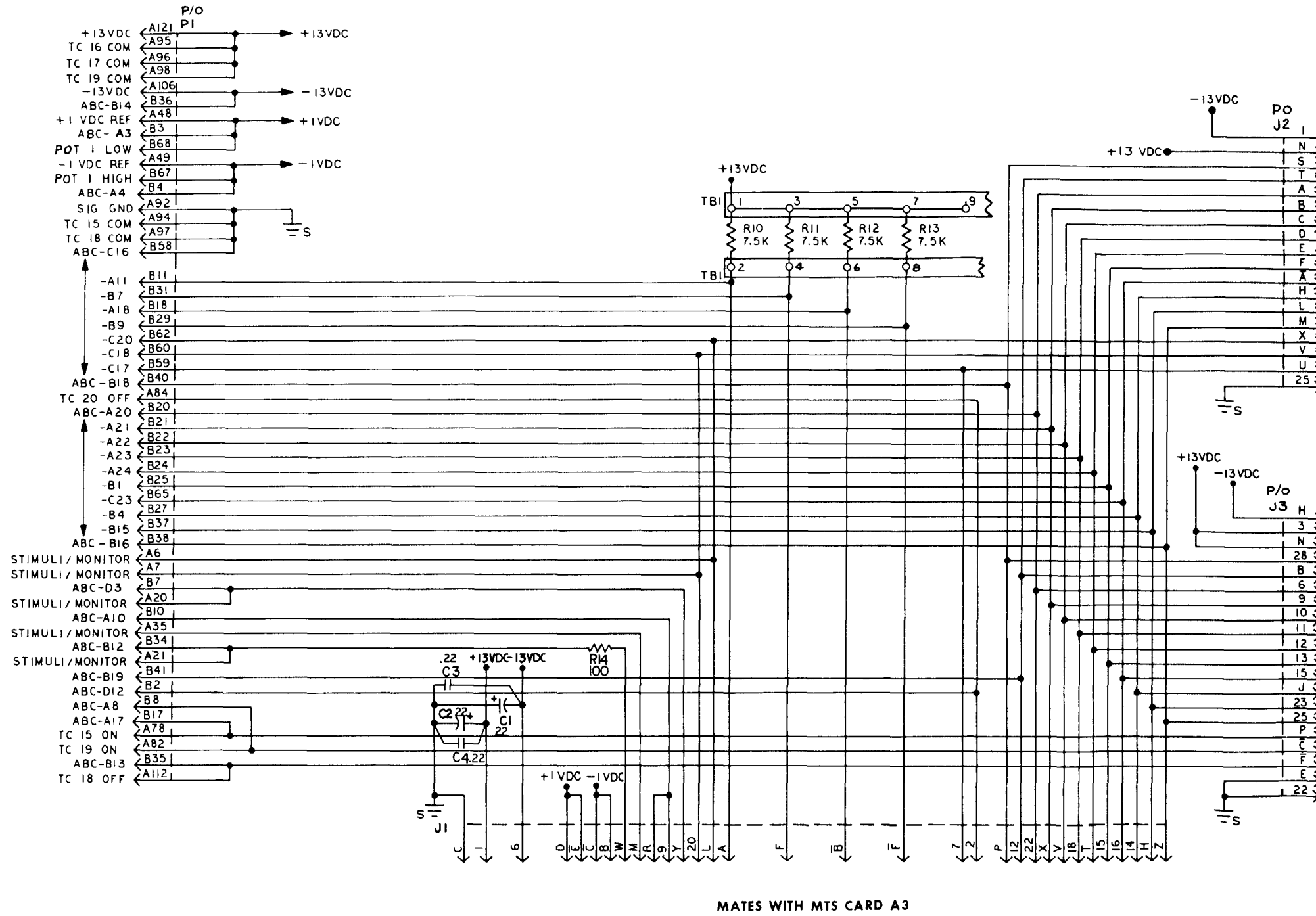
Figure 5-10. DMS-G test adapter A4 schematic diagram (sheet 2 of 3)



NOTE:

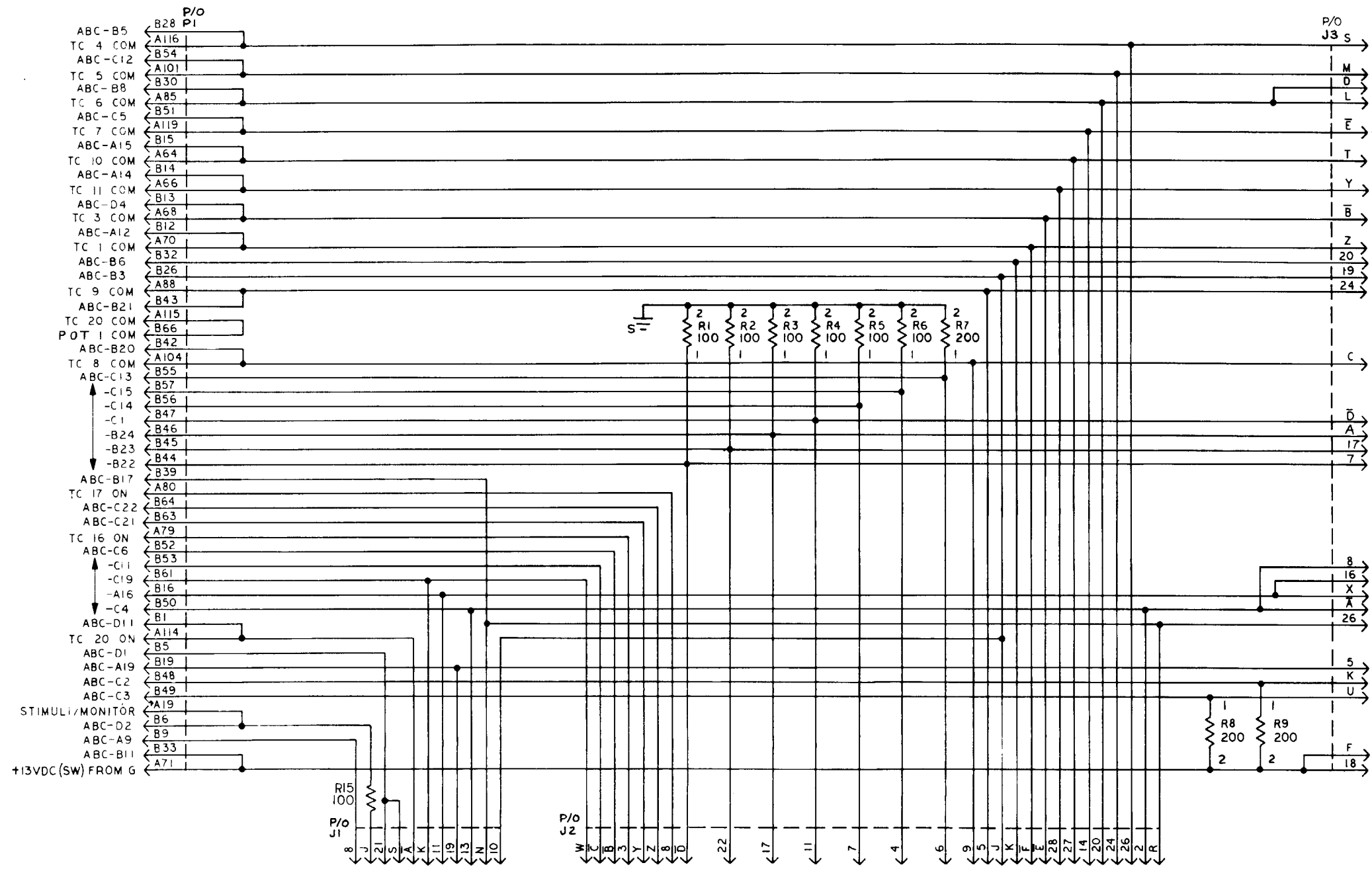
1. ALL RESISTANCE VALUES ARE IN OHMS AND CAPACITANCE VALUES ARE IN MICRO-FARADS UNLESS OTHERWISE SPECIFIED.

Figure 5-10. DMS-G test adapter A4 schematic diagram (sheet 3 of 3)



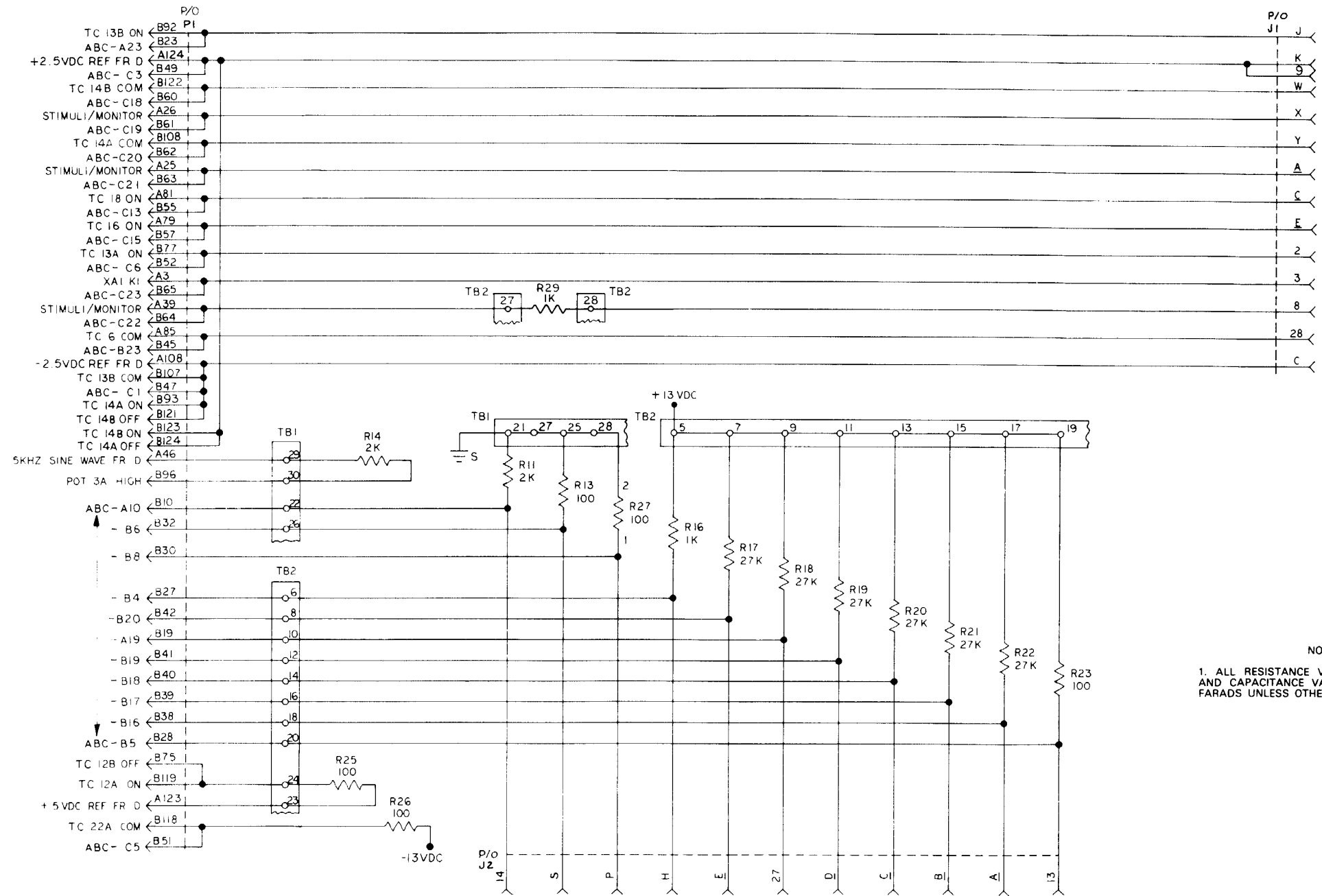
NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

Figure 5-11. DMS-G test adapter A5 schematic diagram (sheet 1 of 2)



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

Figure 5-11. DMS-G test adapter A5 schematic diagram (sheet 2 of 2)



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

Figure 5-12. DMS-G test adapter A6 schematic diagram (sheet 1 of 3)

MS161307

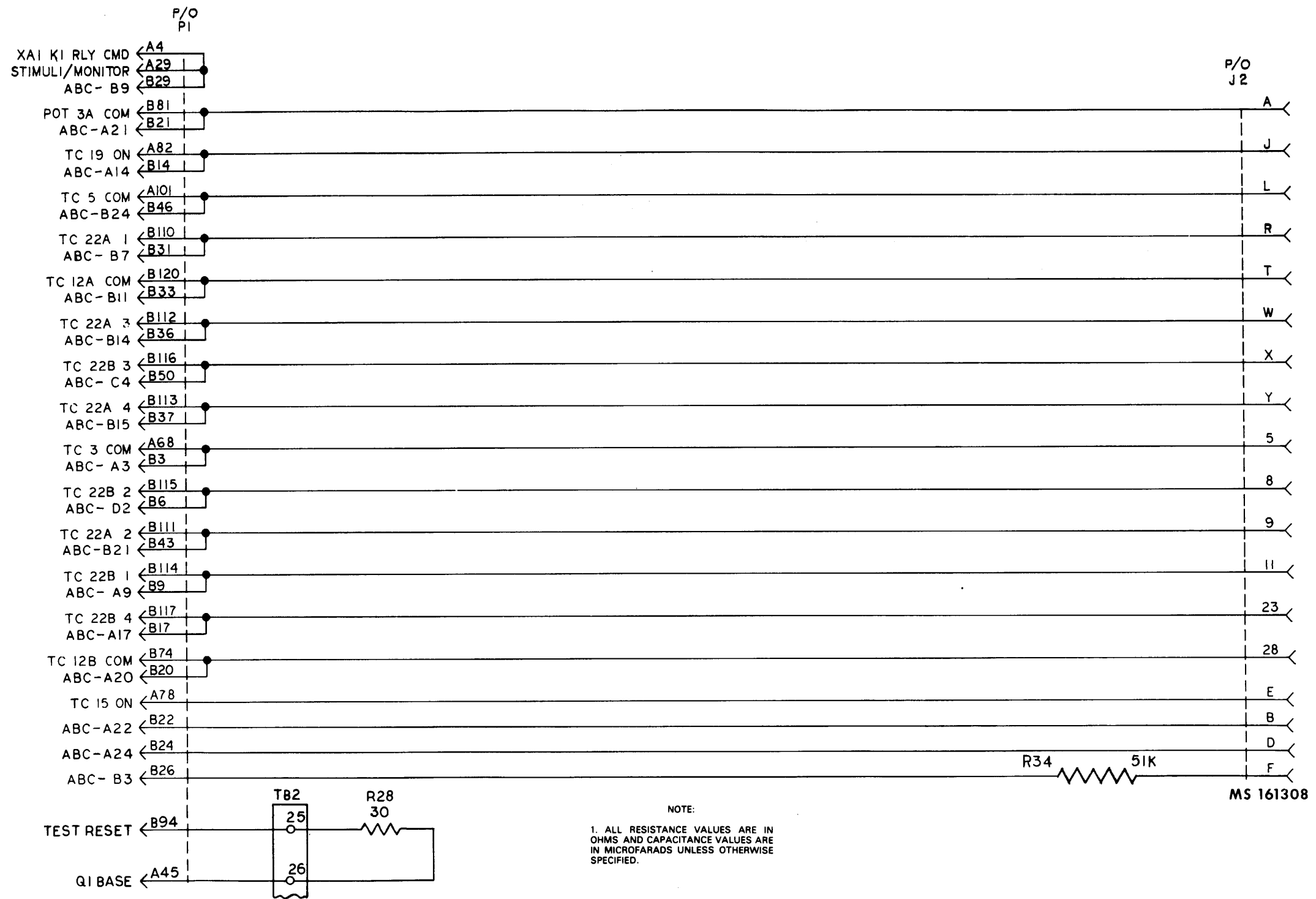


Figure 5-12. DMS-G TEST ADAPTER A6 schematic diagram (sheet 2 of 3)

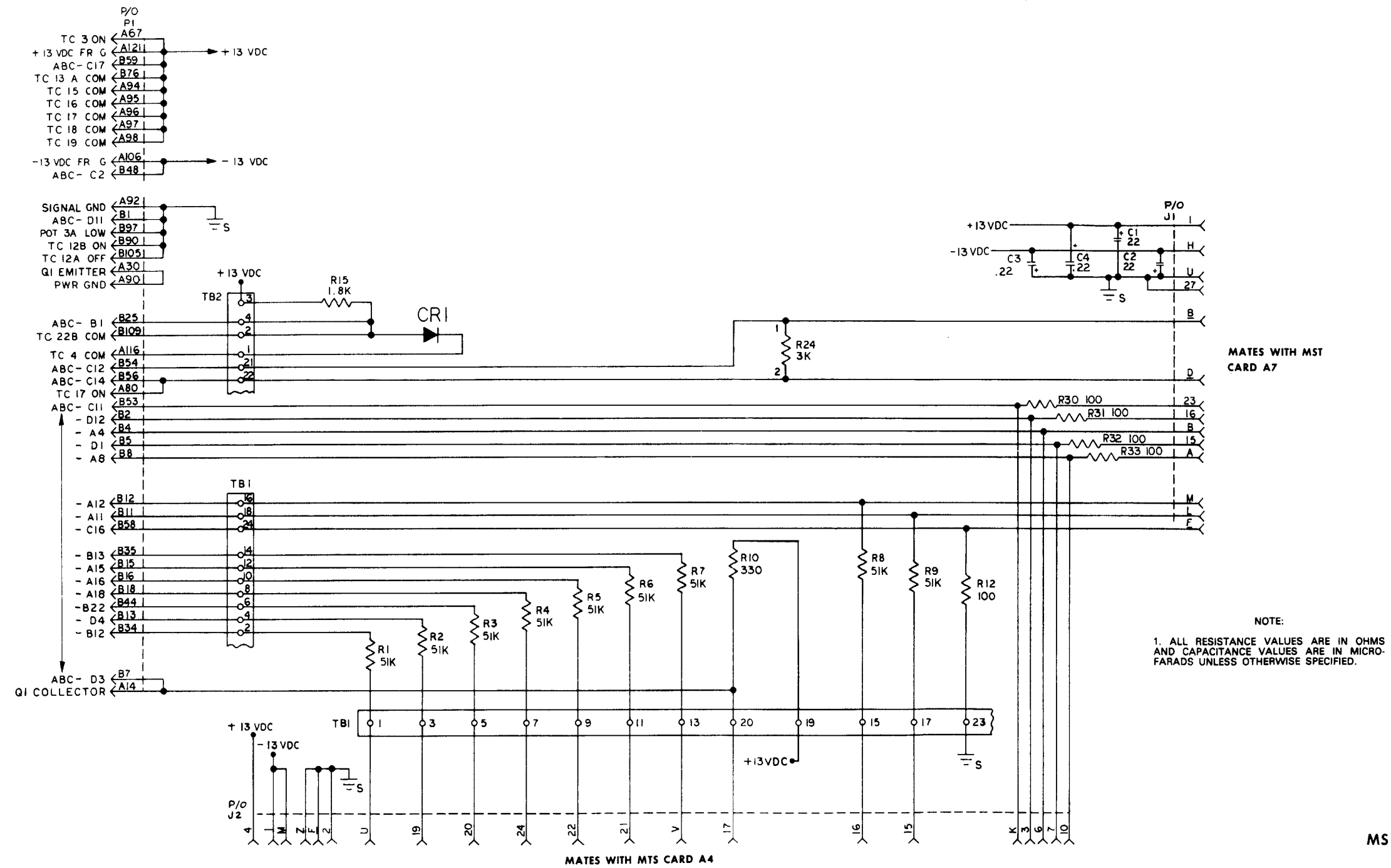


Figure 5-12. DMS-G test adapter A6 schematic diagram (sheet 3 of 3)

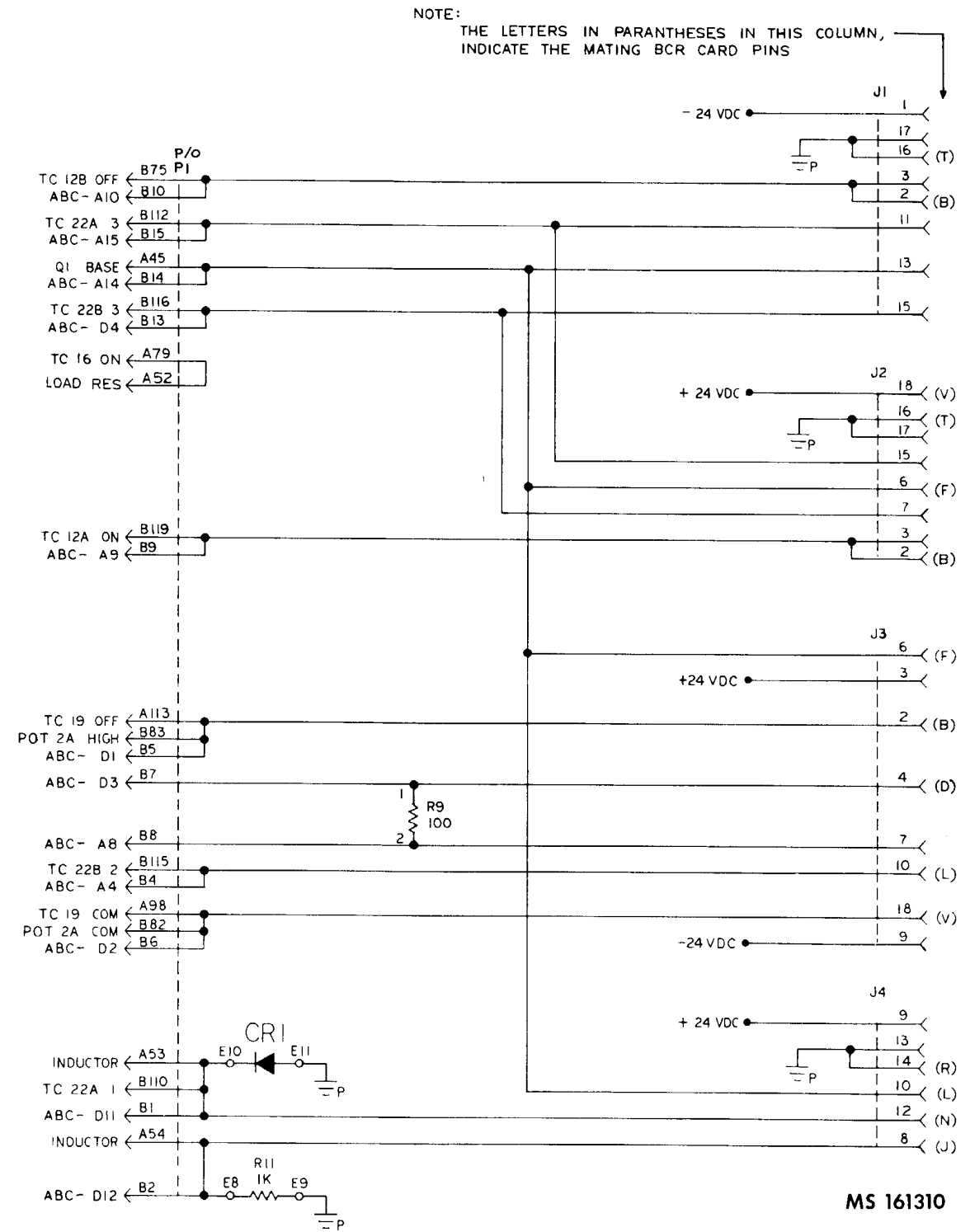
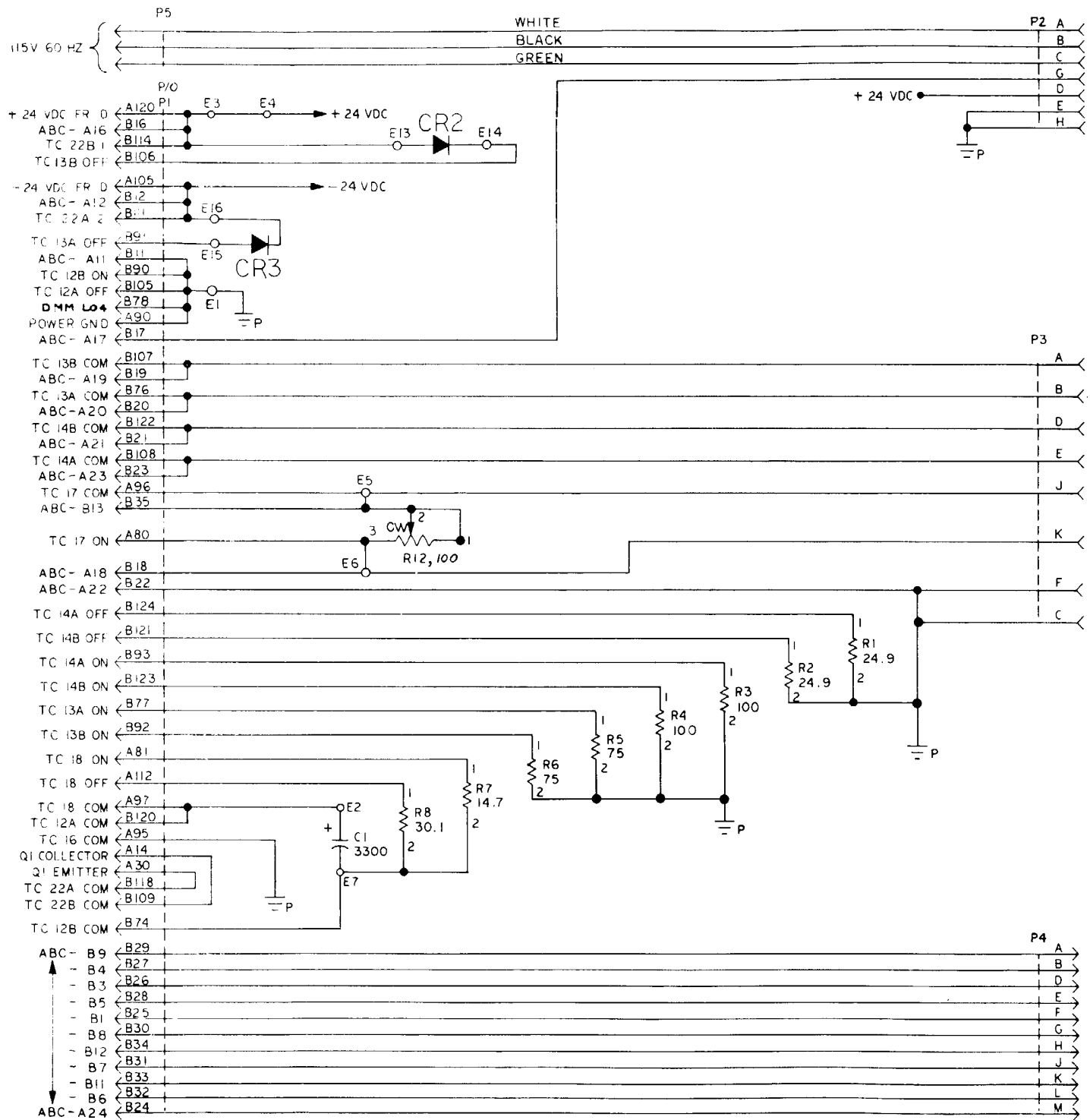


Figure 5-13. DMS-G test adapter A7 (10275274)-schematic diagram

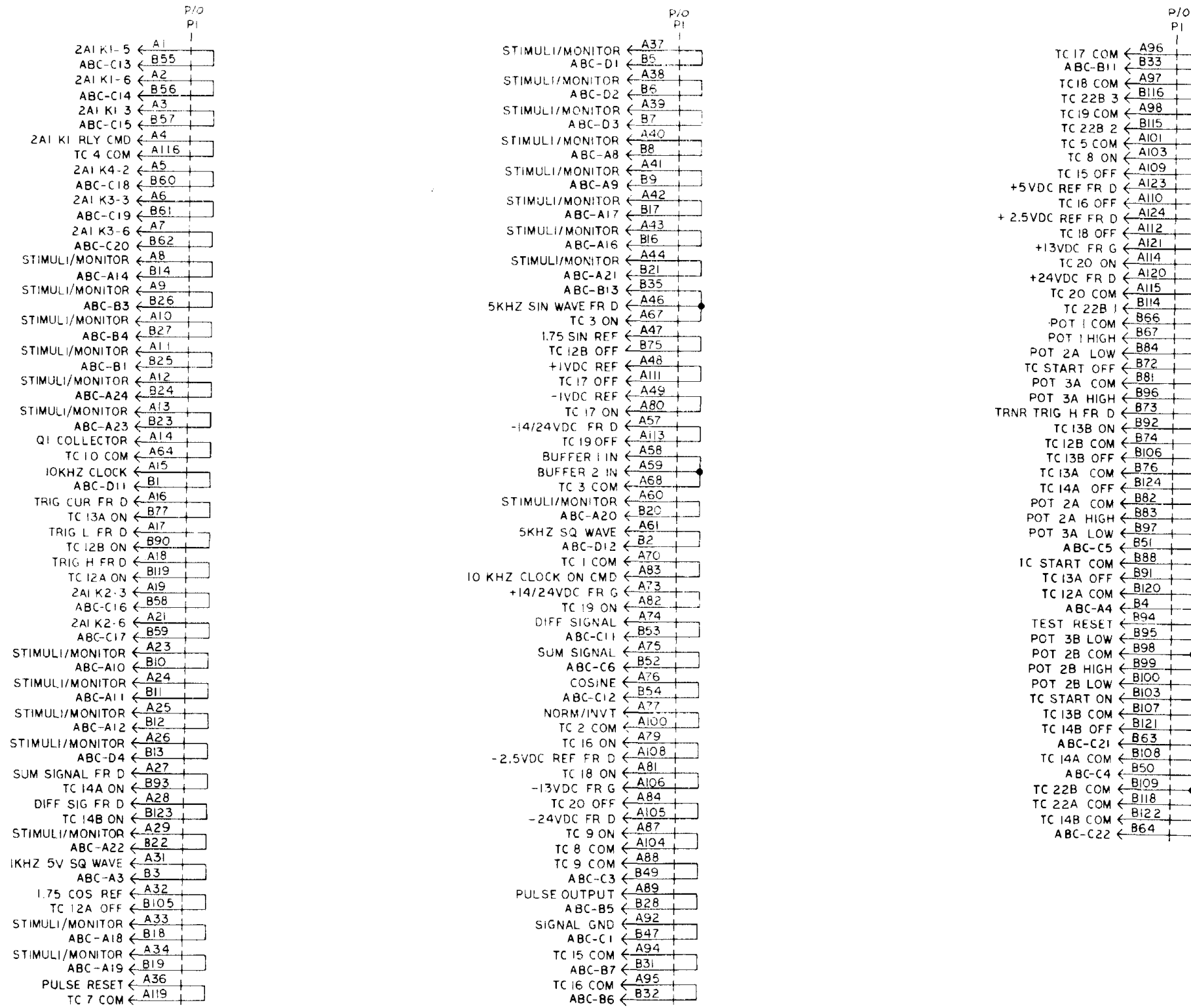


Figure 5-14. DMS-G test adapter A8 (10275275)-schematic diagram (sheet 1 of 2)

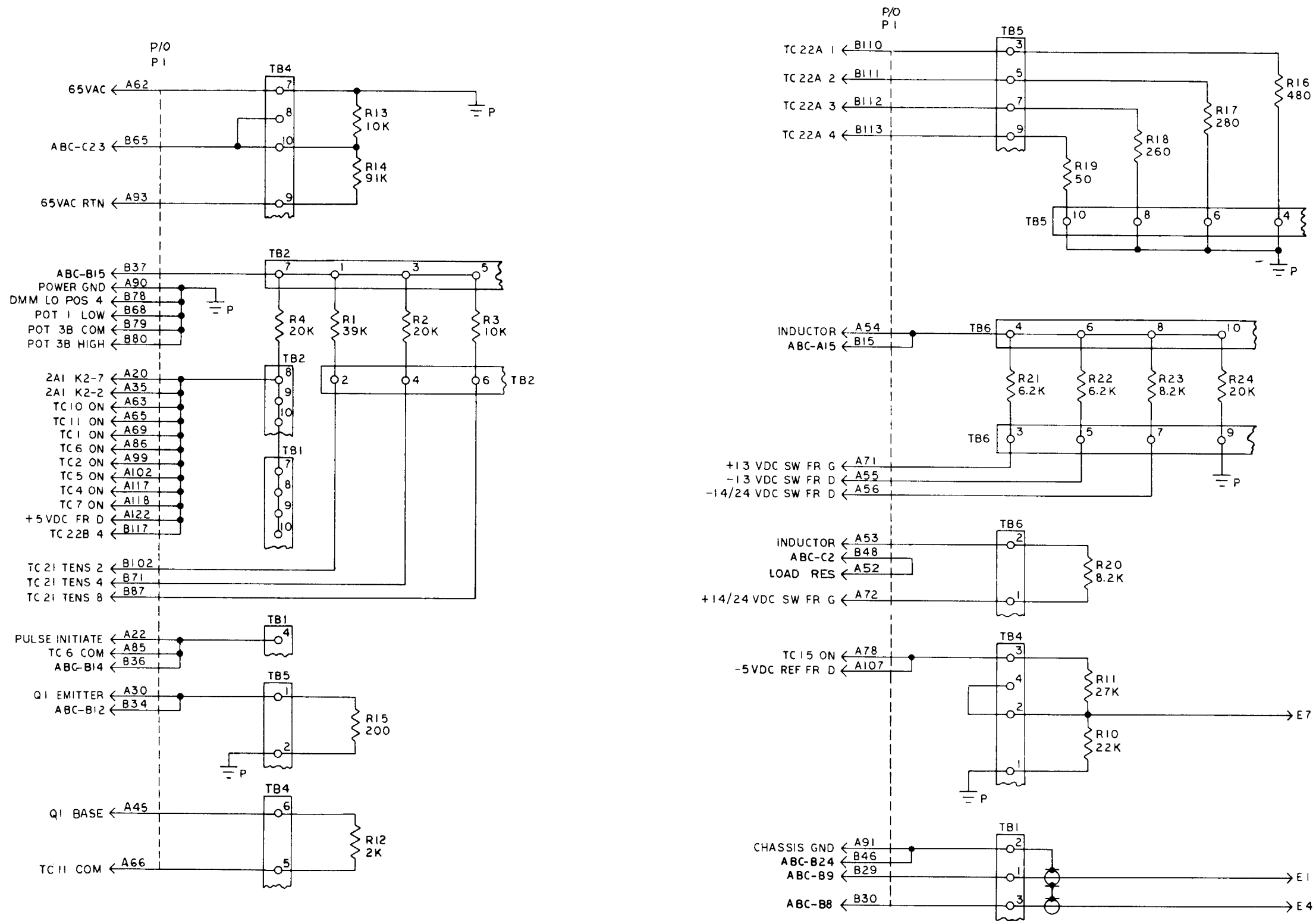


Figure 5-14. DMS-G test adapter A8 (10275275)-
schematic diagram (sheet 2 of 2)

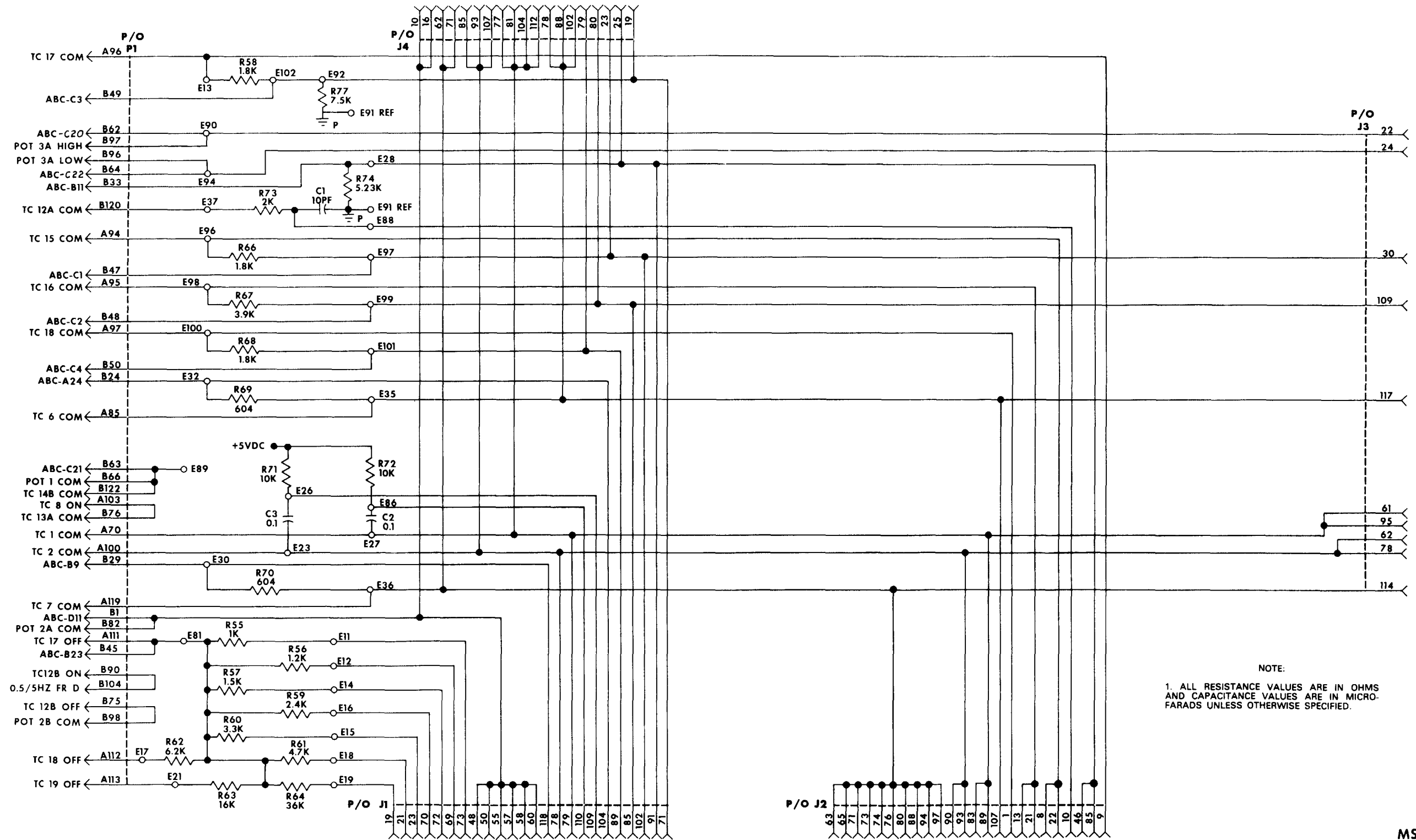


Figure 5-15. DMS-G test adapter A9 schematic diagram (sheet 1 of 4)

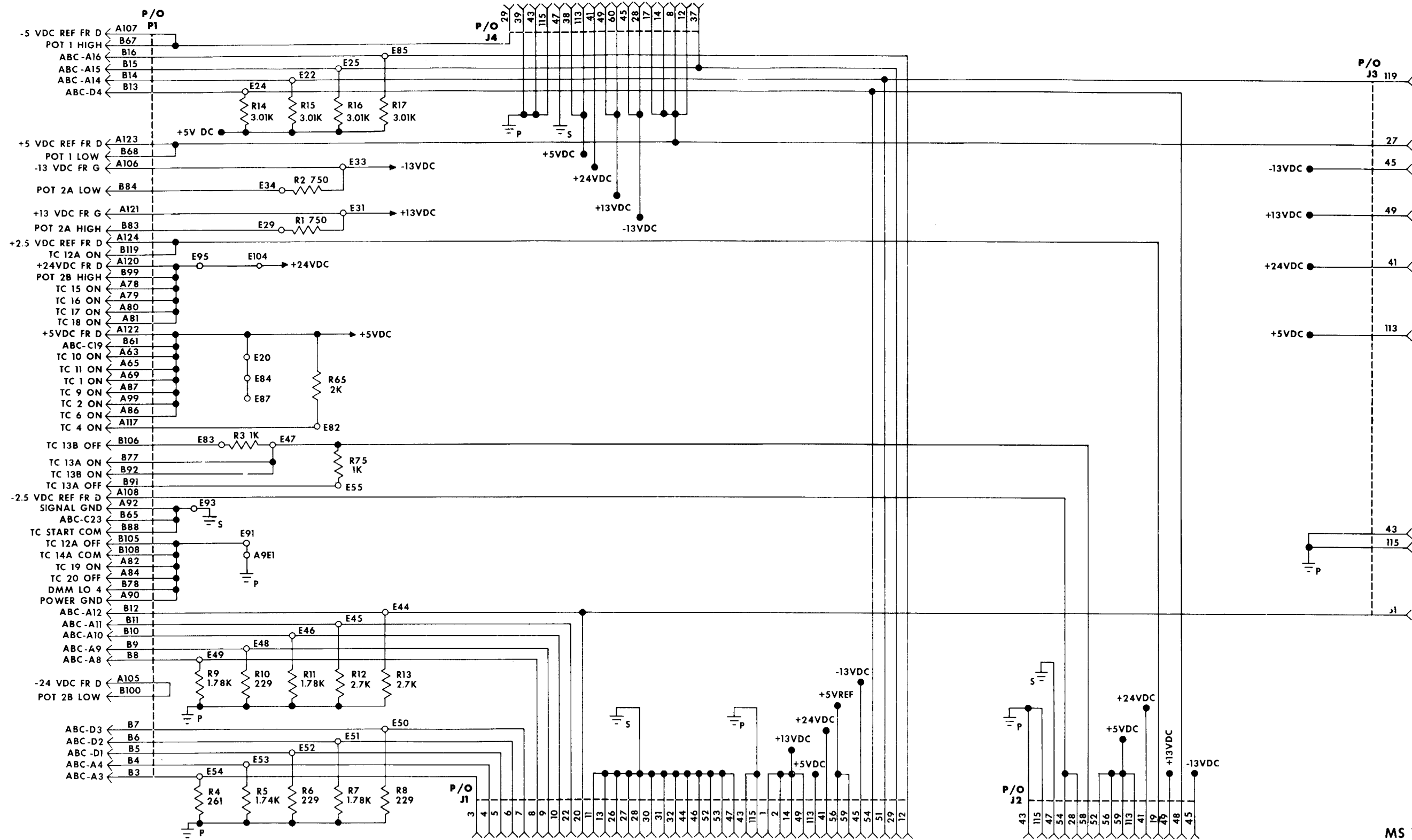


Figure 5-15. DMS-G test adapter A9 (10275276)-
schematic diagram (sheet 2 of 4)

MS 161314

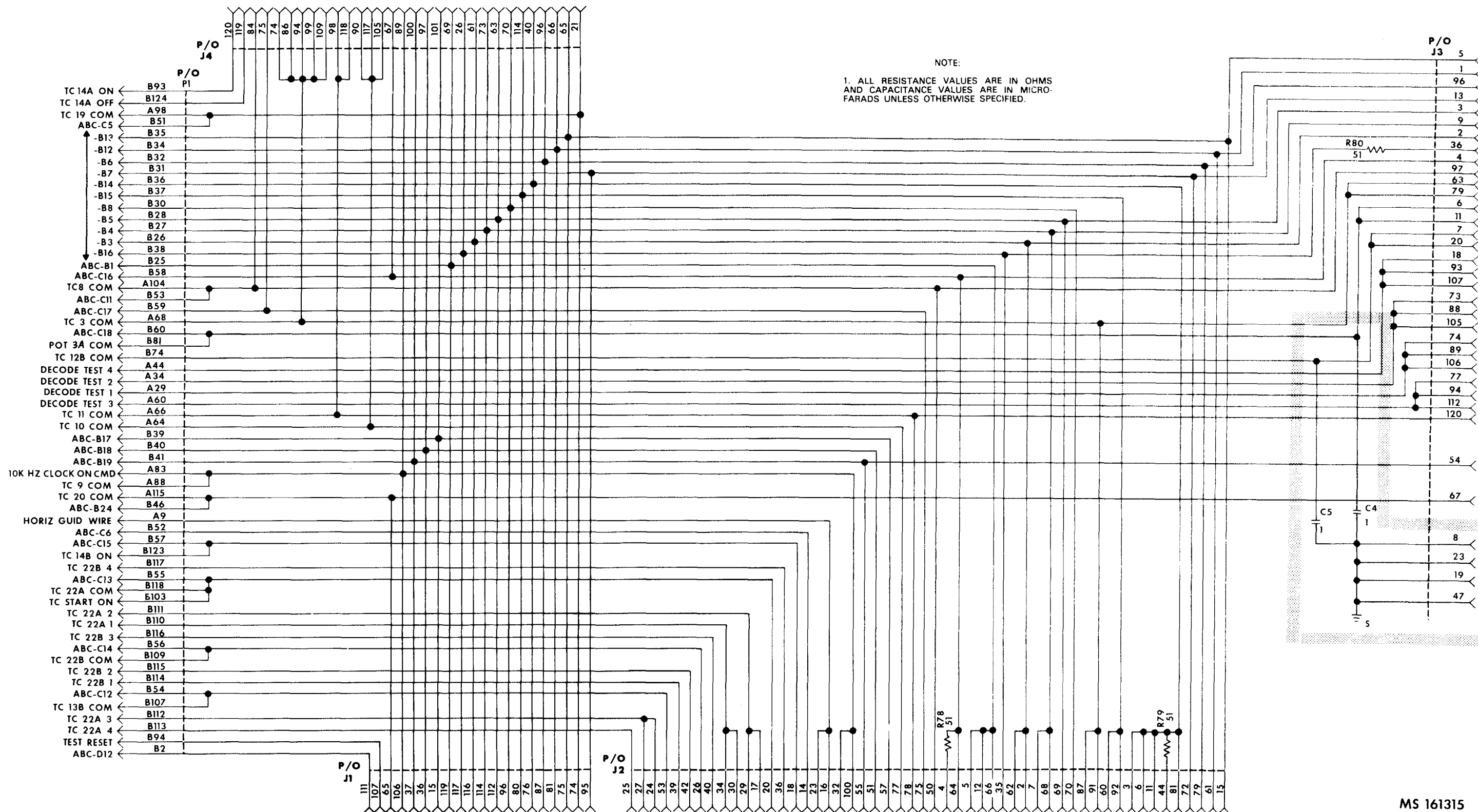


Figure 5-15. DMS-G test adapter A9 schematic diagram (sheet 3 of 4)

MS 161315

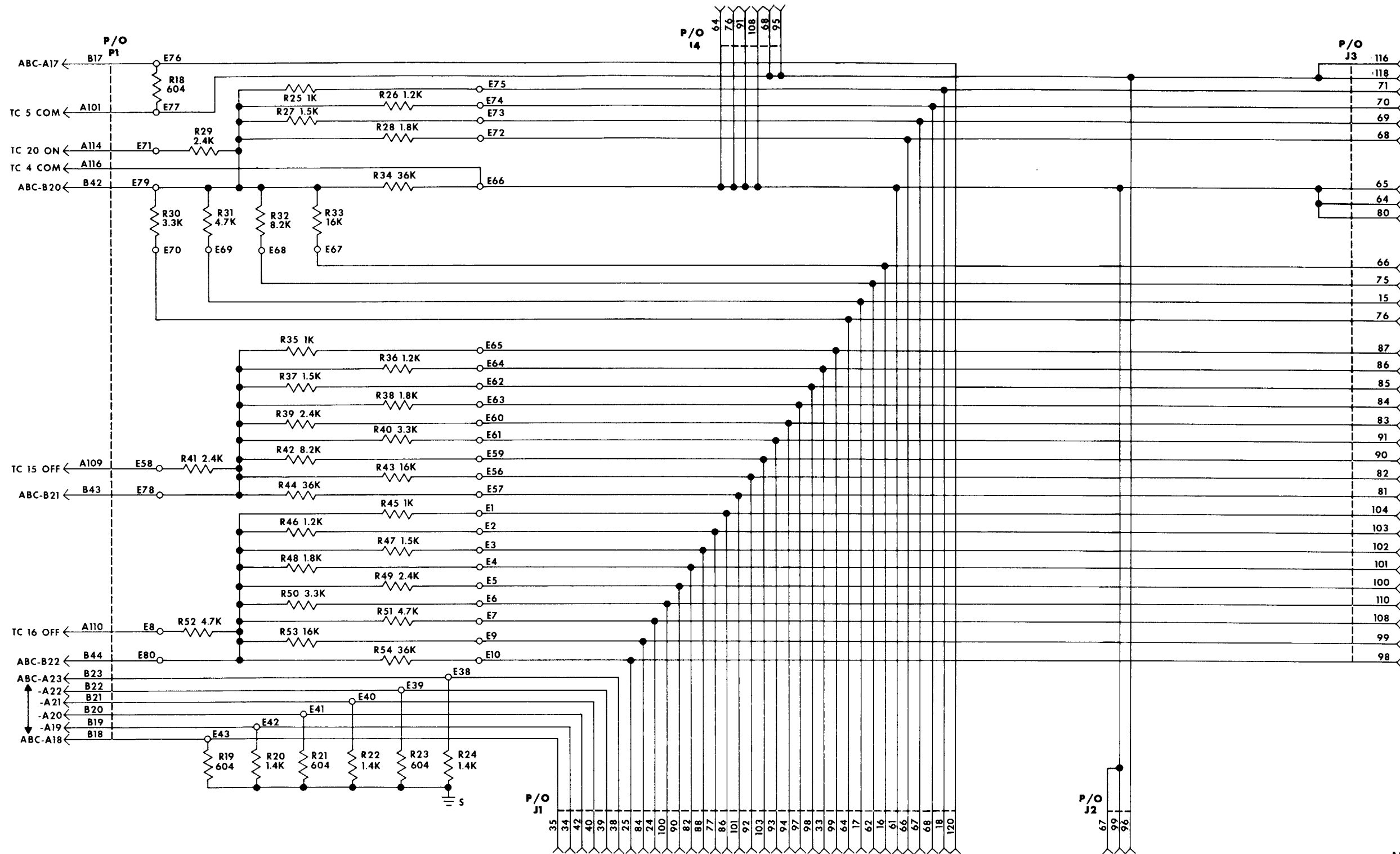
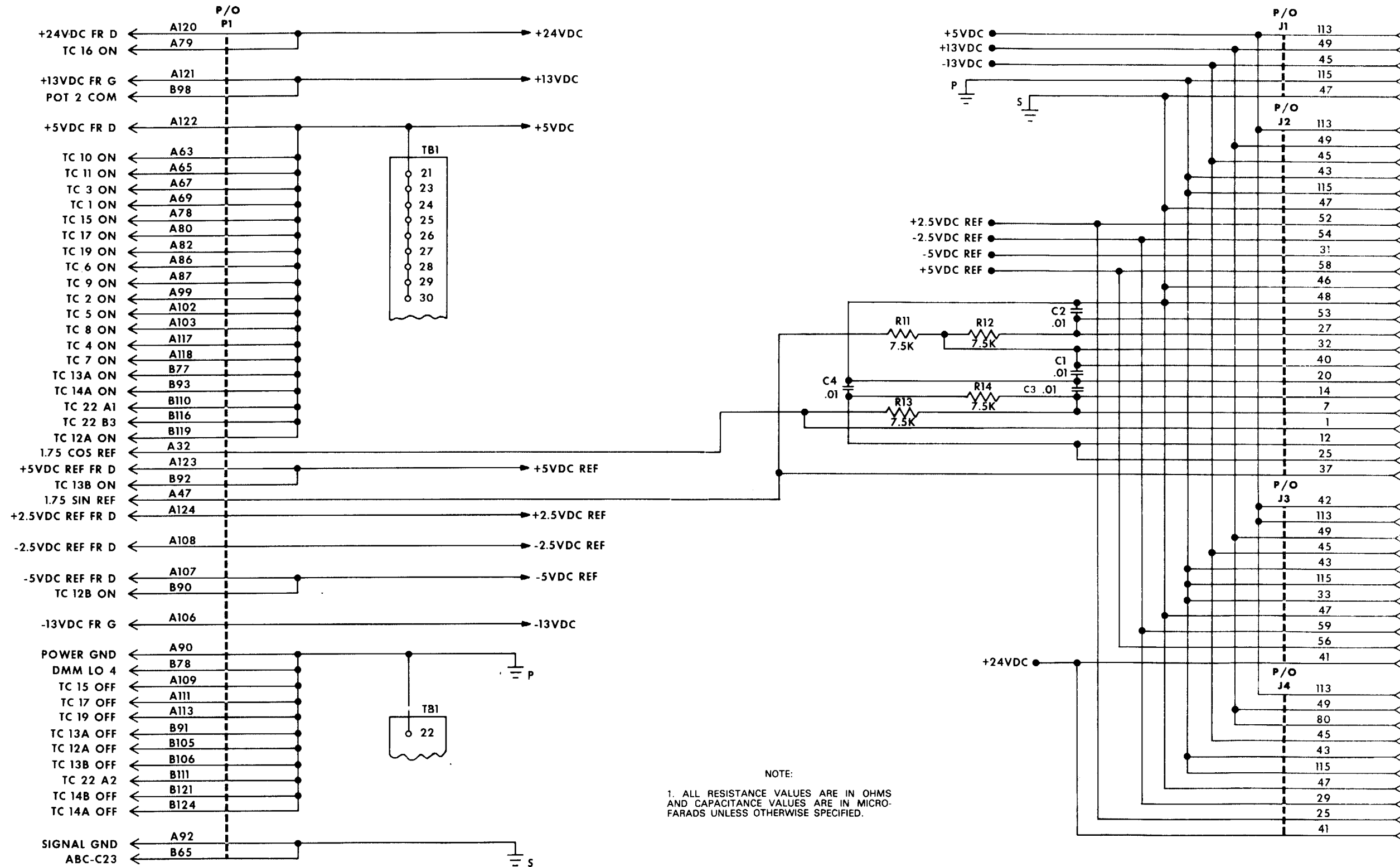


Figure 5-15. DMS-G test adapter A9 - schematic diagram (sheet 4 of 4)



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

MS 161317

Figure 5-16. DMS-G test adapter A10
 schematic diagram (sheet 1 of 3)

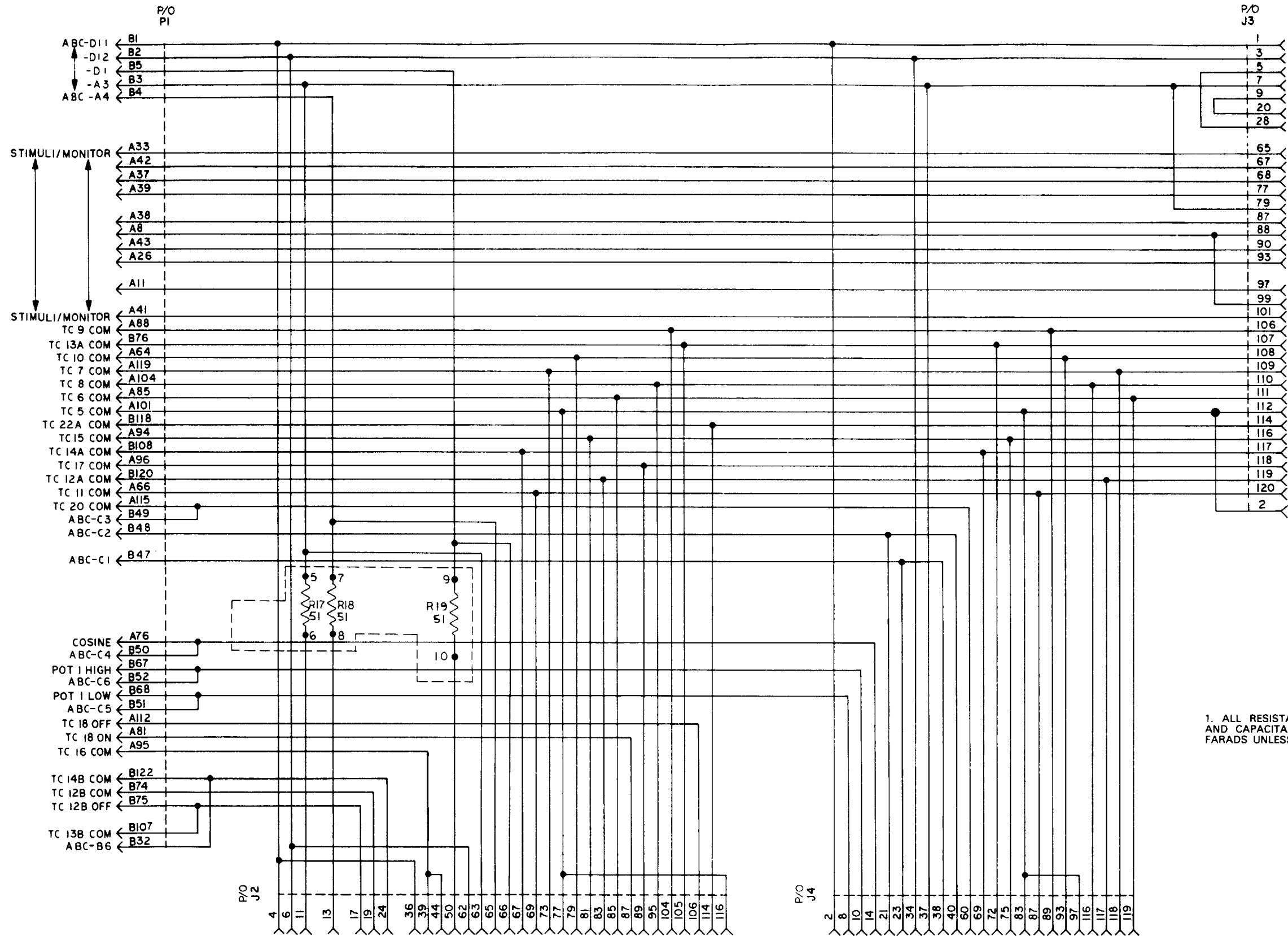


Figure 5-16. DMS-G test adapter A10 schematic diagram (sheet 2 of 3)

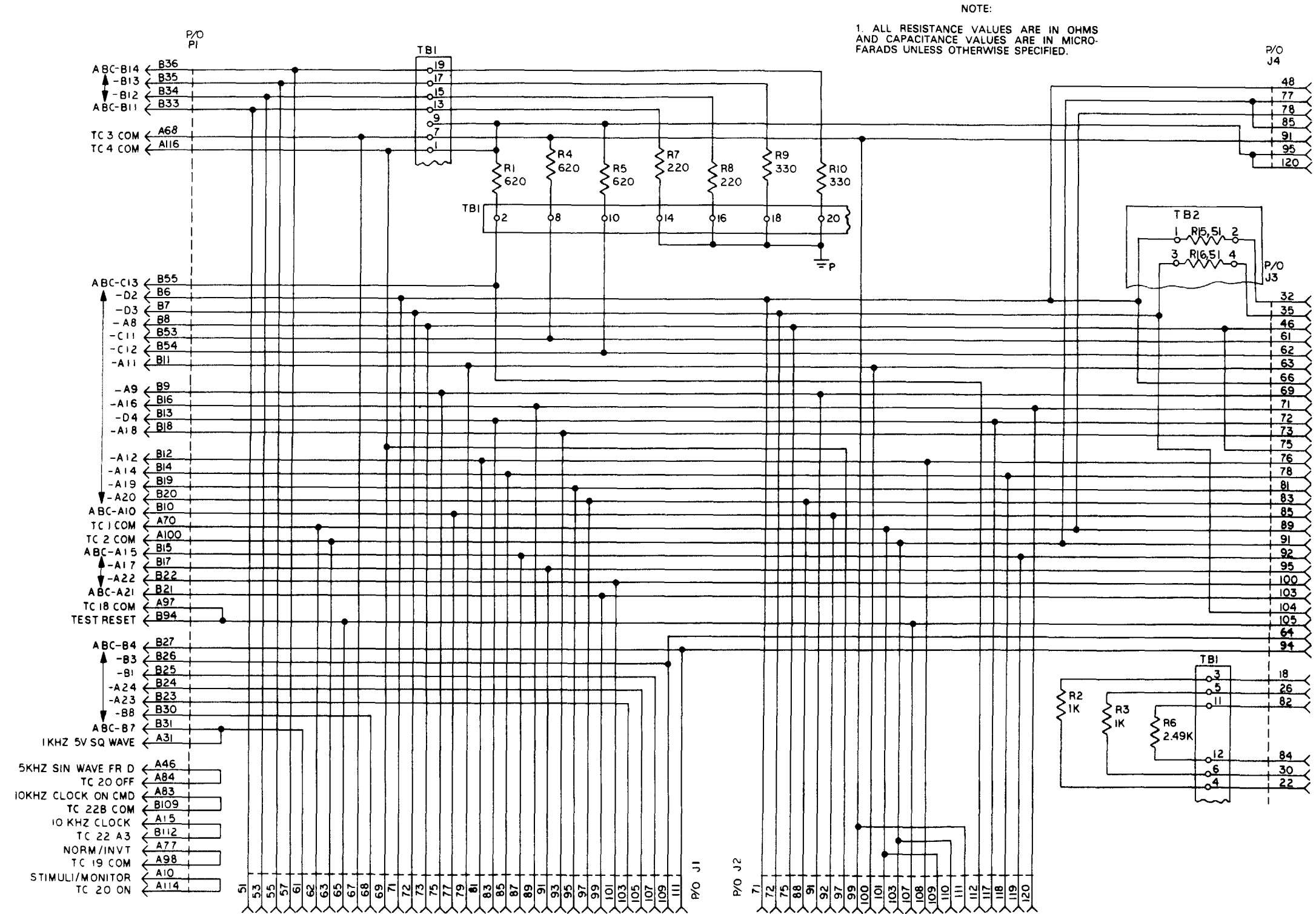
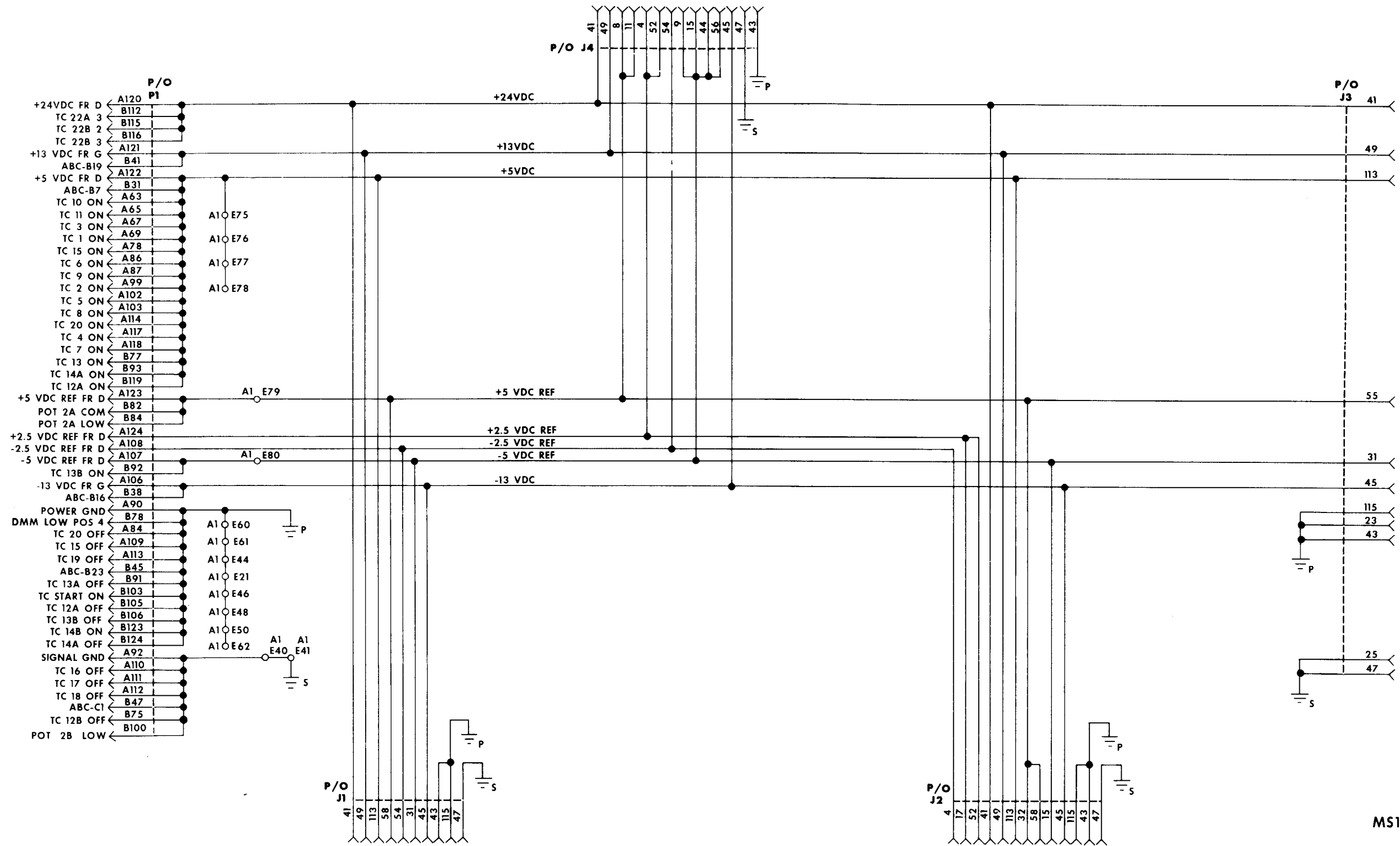
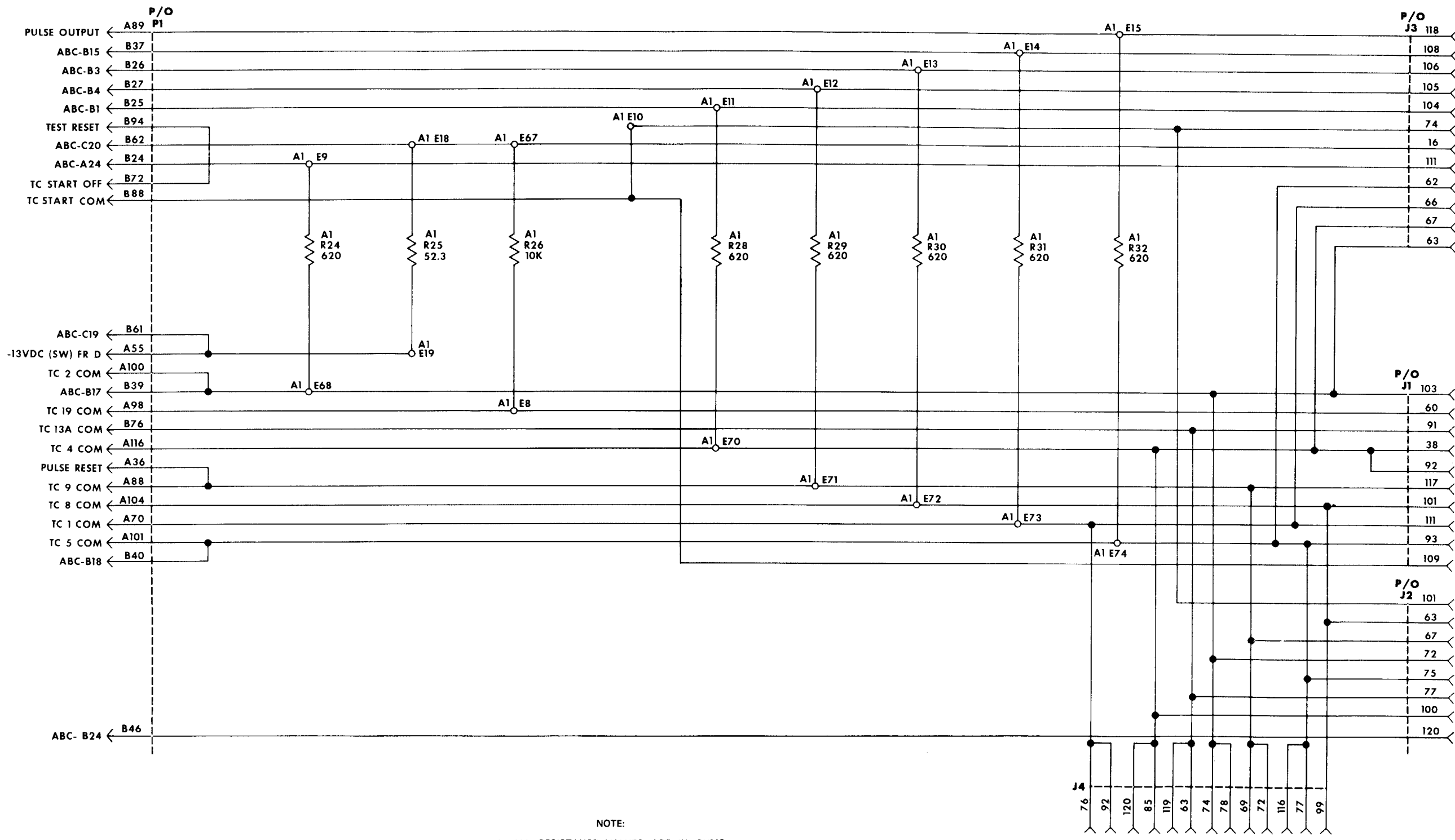


Figure 5-16. DMS-G test adapter A10
schematic diagram (sheet 3 of 3)



MS161320

Figure 5-17. DMS-G test adapter All schematic diagram (sheet 1 of 4)



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

MS161321

Figure 5-17. DMS-G test adapter All schematic diagram (sheet 2 of 4)

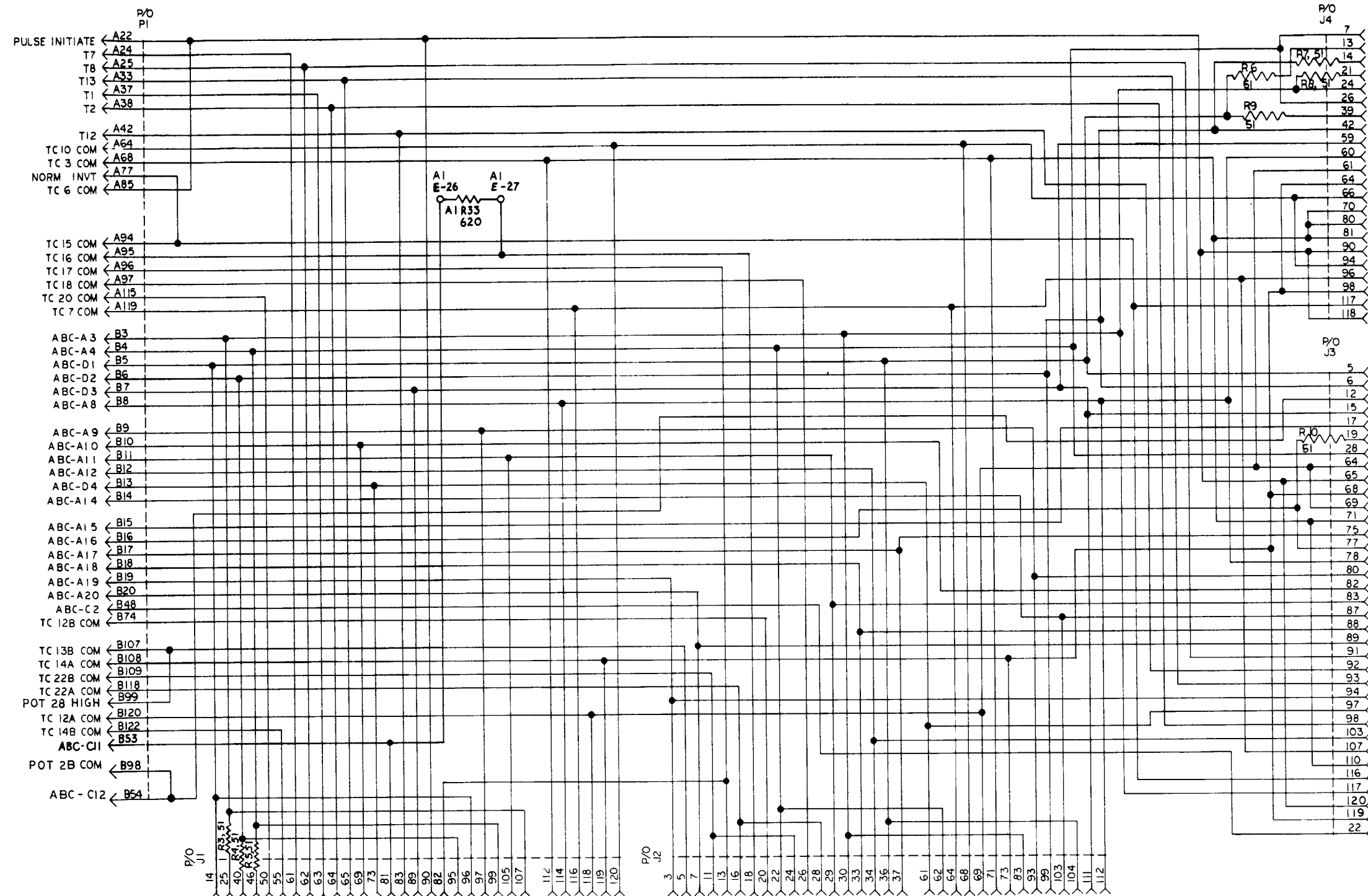


Figure 5-17. DMS-G test adapter A11-
schematic diagram (sheet 3 of 4)

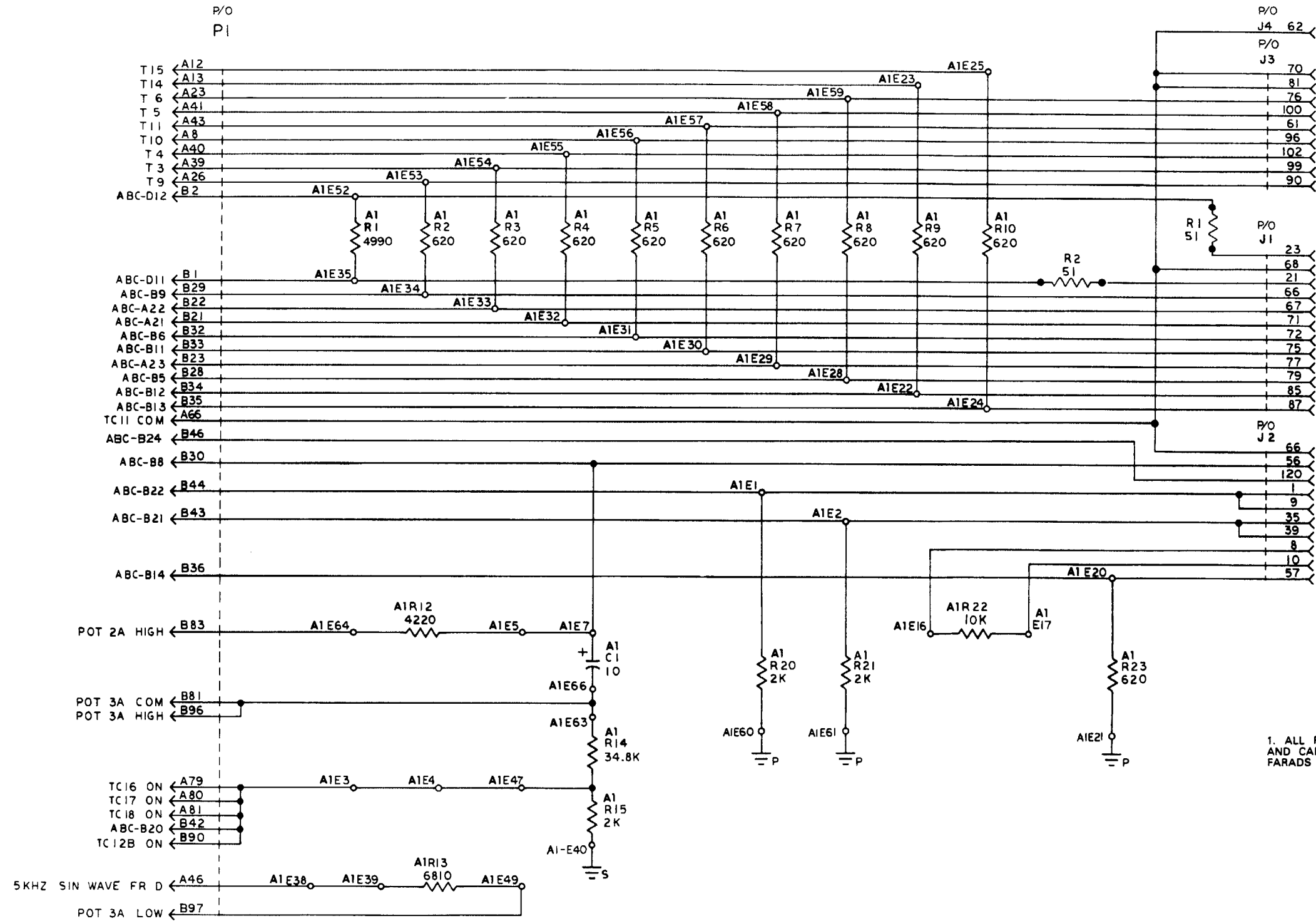


Figure 5-17. DMS-G test adapter A11-schematic diagram (sheet 4 of 4)

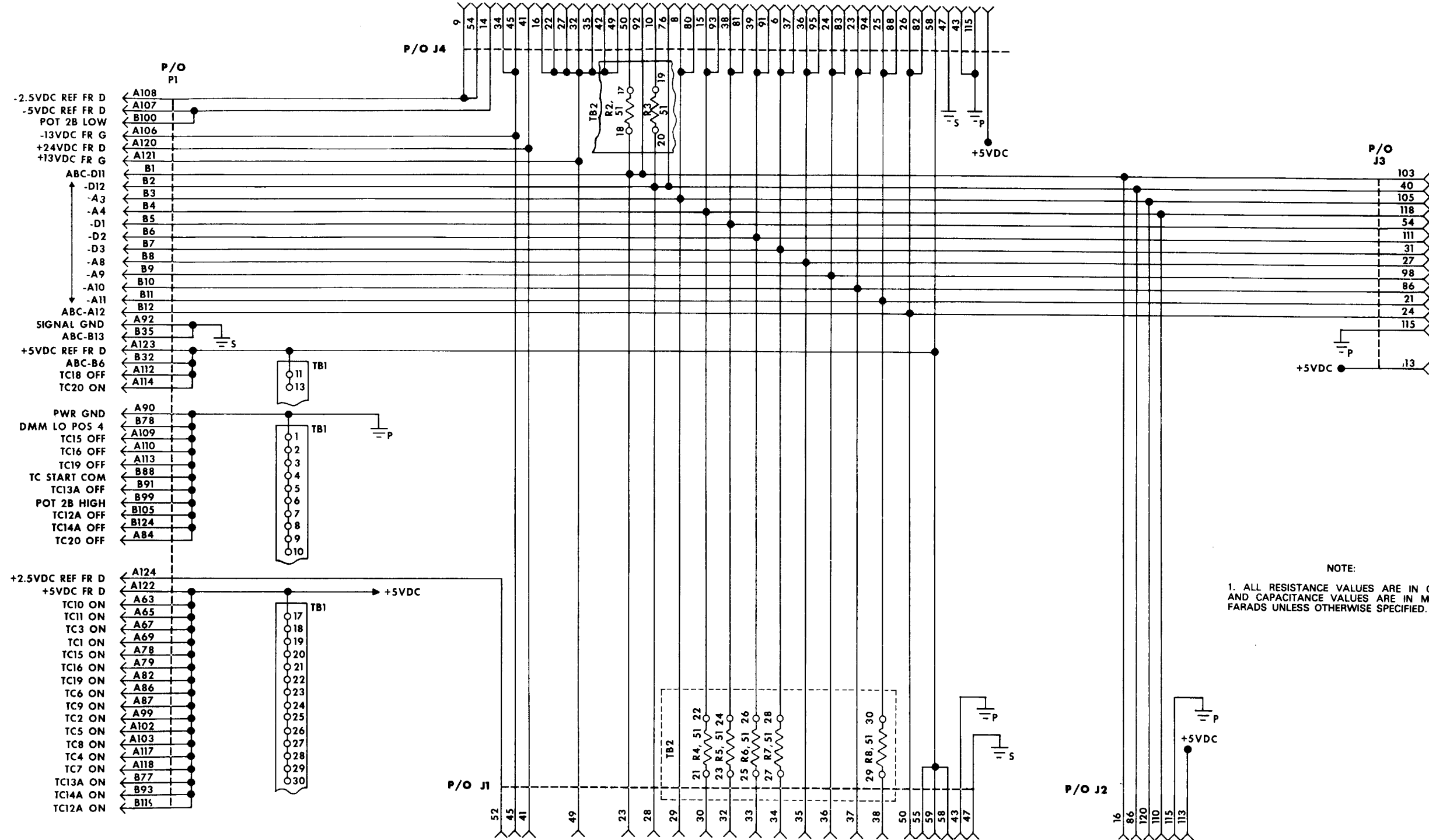


Figure 5-18. DMS-G test adapter A12-
 schematic diagram (sheet 1 of 3)

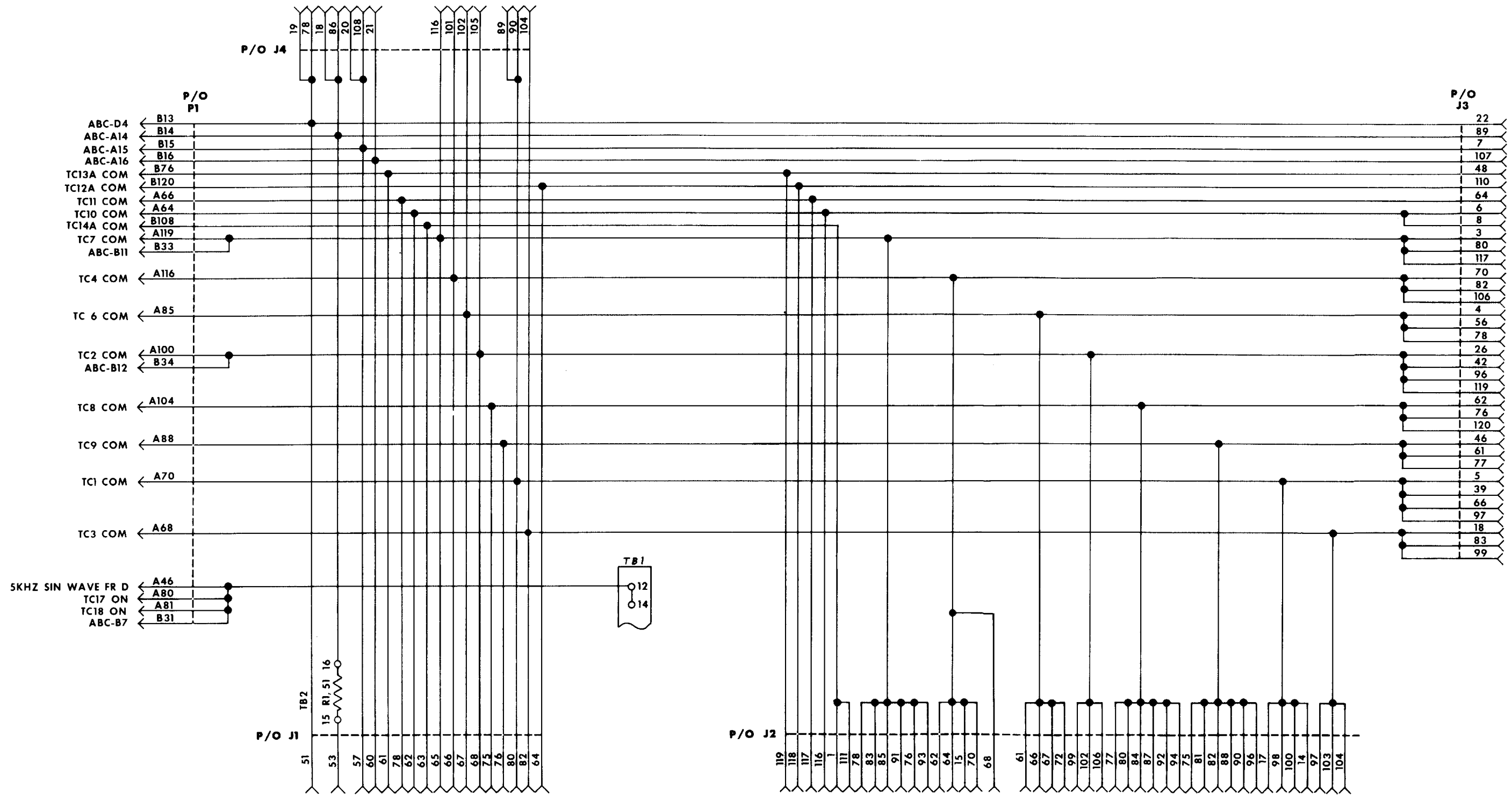


Figure 5-18. DMS-G test adapter A12 schematic diagram (sheet 2 of 3)

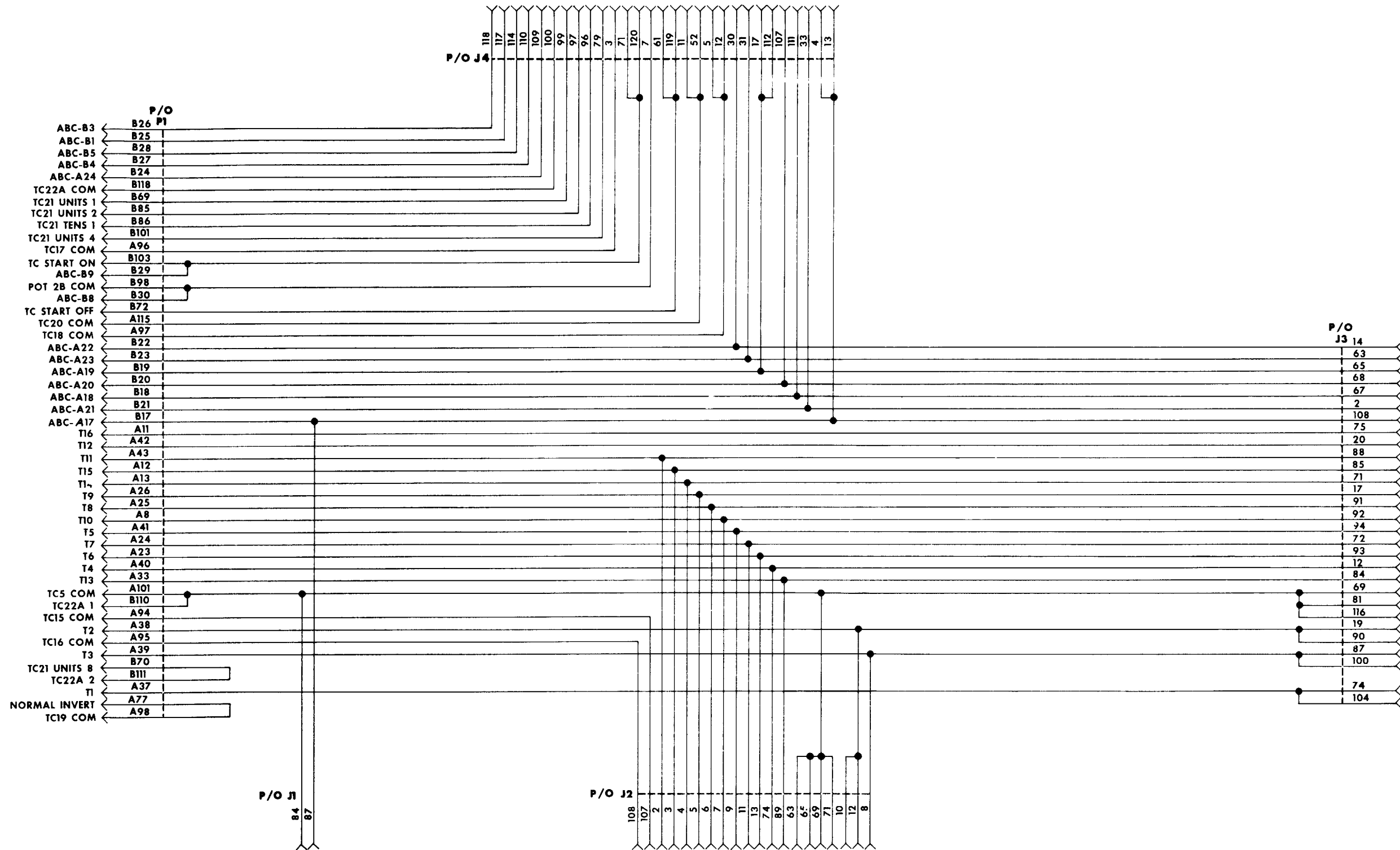
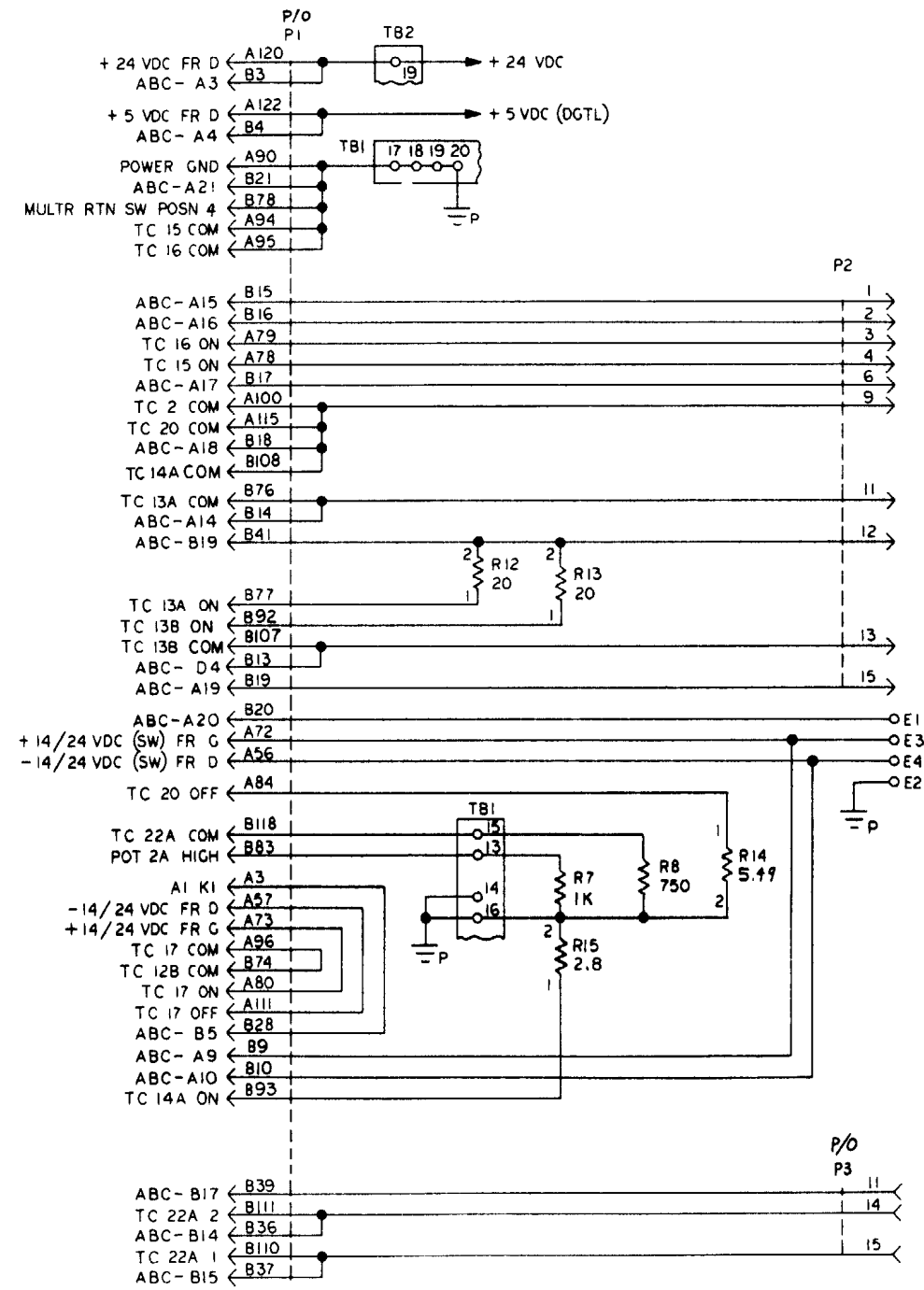


Figure 5-18. DMS-G test adapter A12-schematic diagram (sheet 3 of 3)



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN MICRO-
 FARADS UNLESS OTHERWISE SPECIFIED.

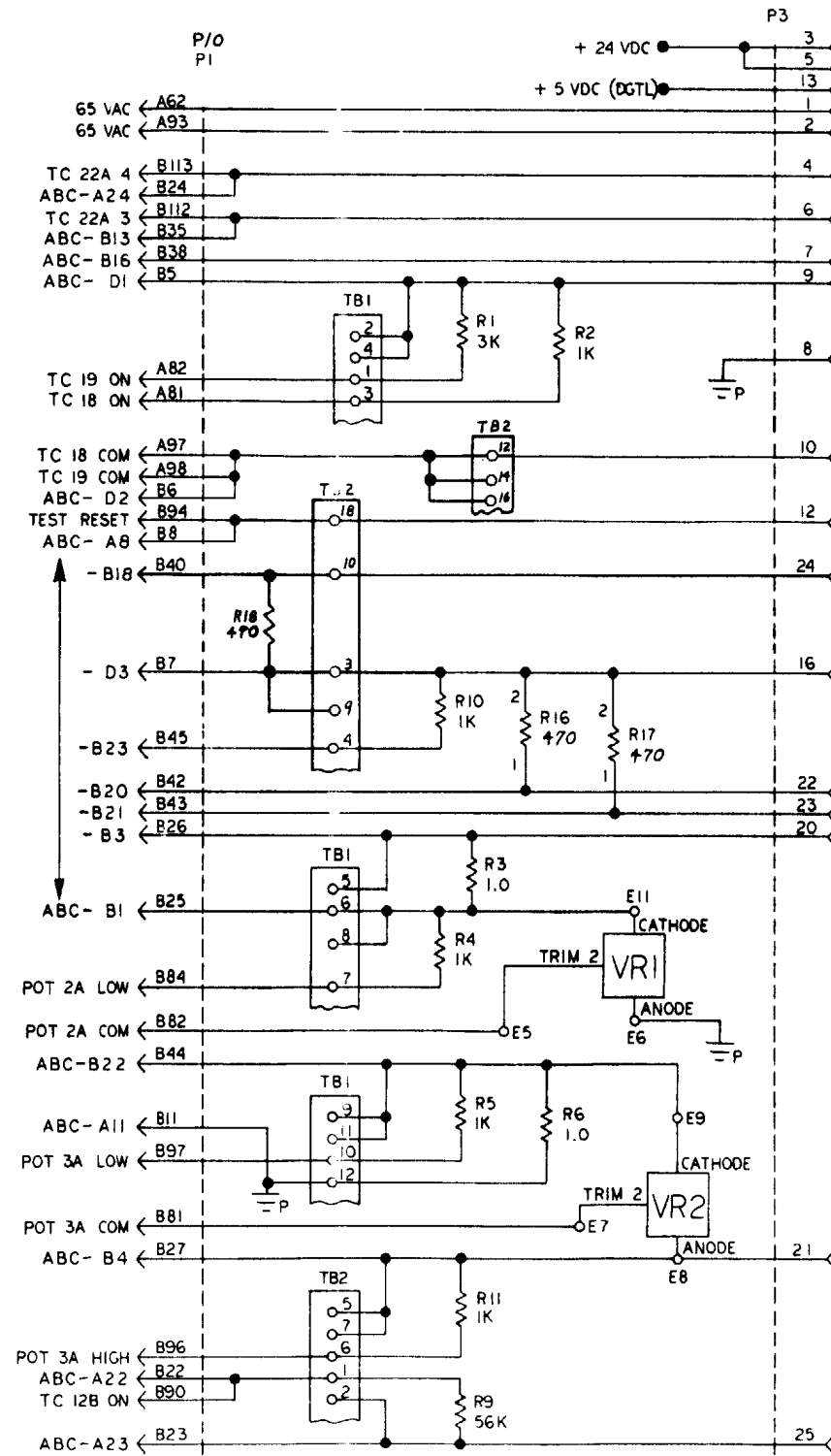
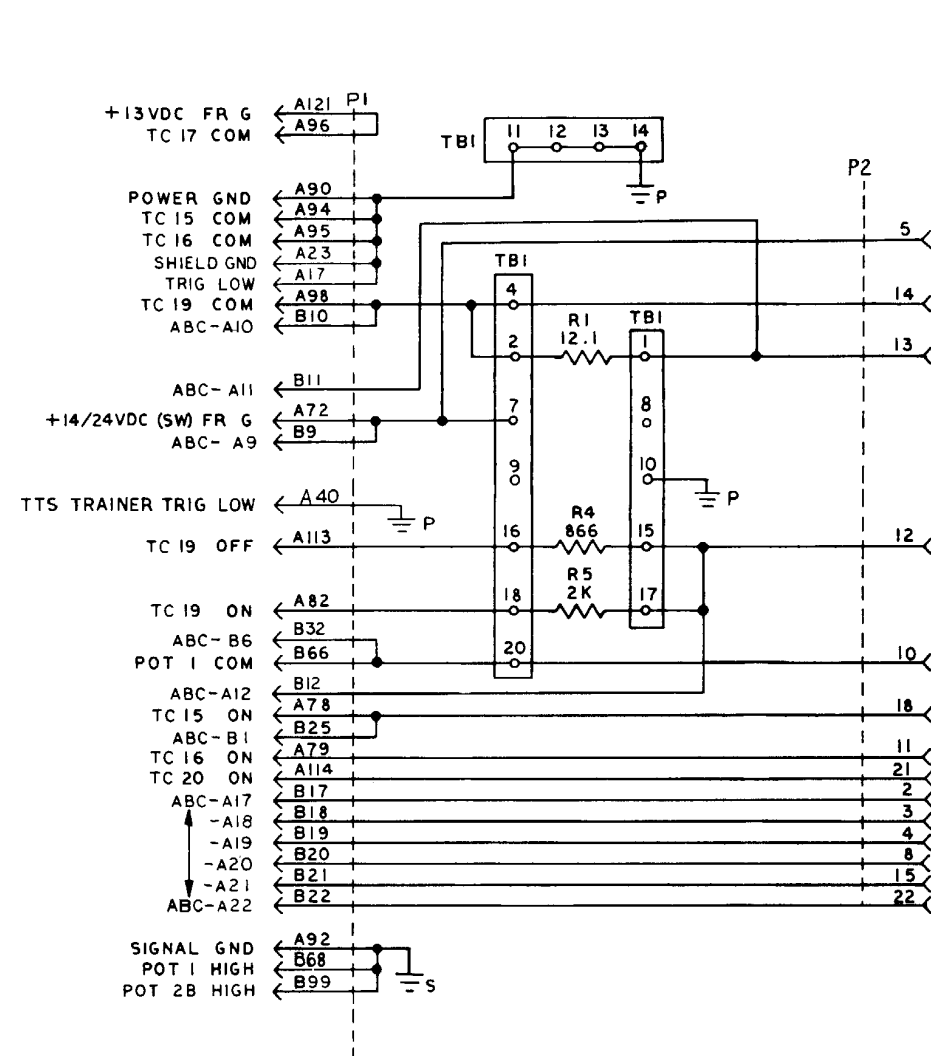


Figure 5-19. DMS-G test adapter A13-
 schematic diagram



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN
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 SPECIFIED.

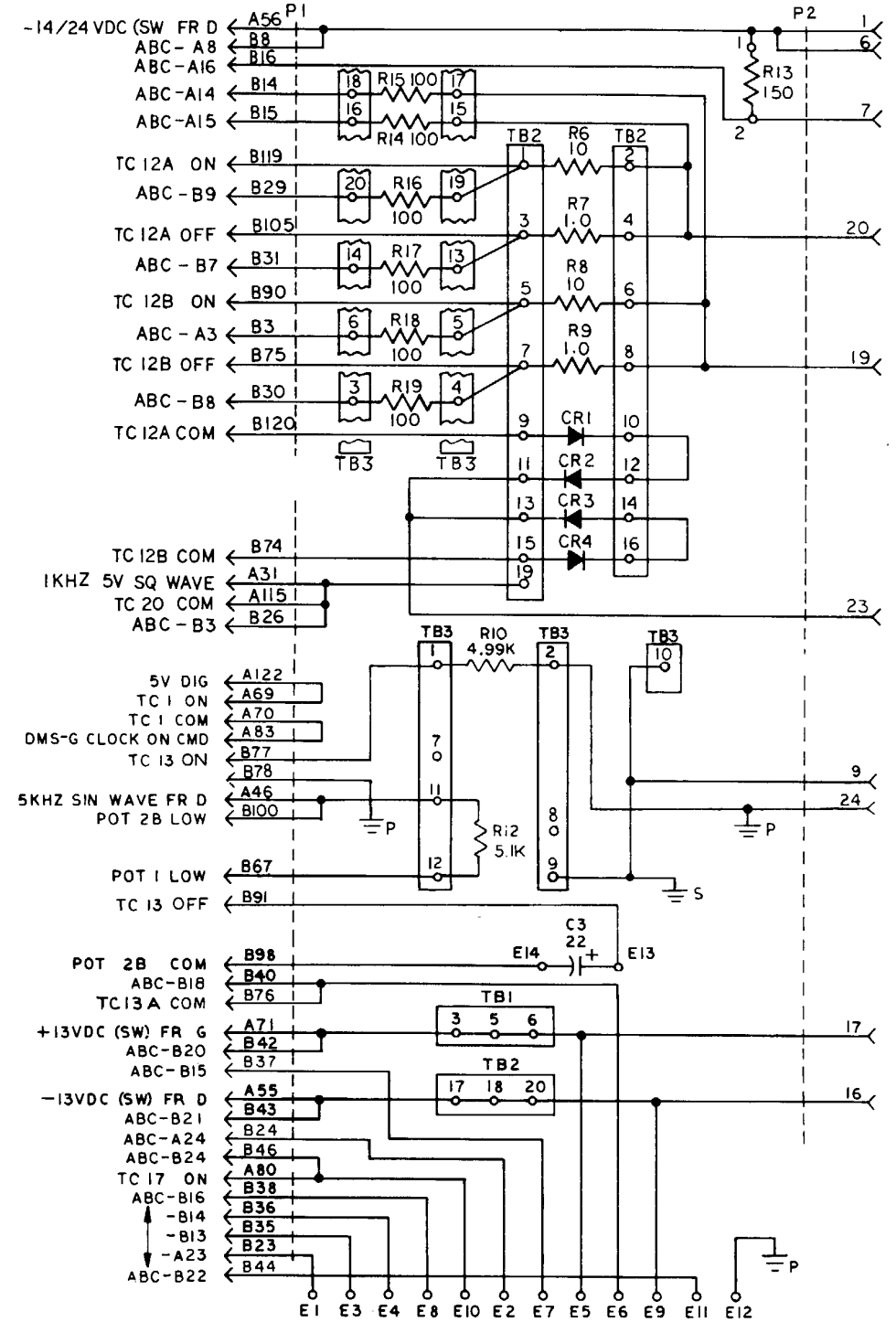


Figure 5-20. DMS-G test adapter A14 schematic diagram

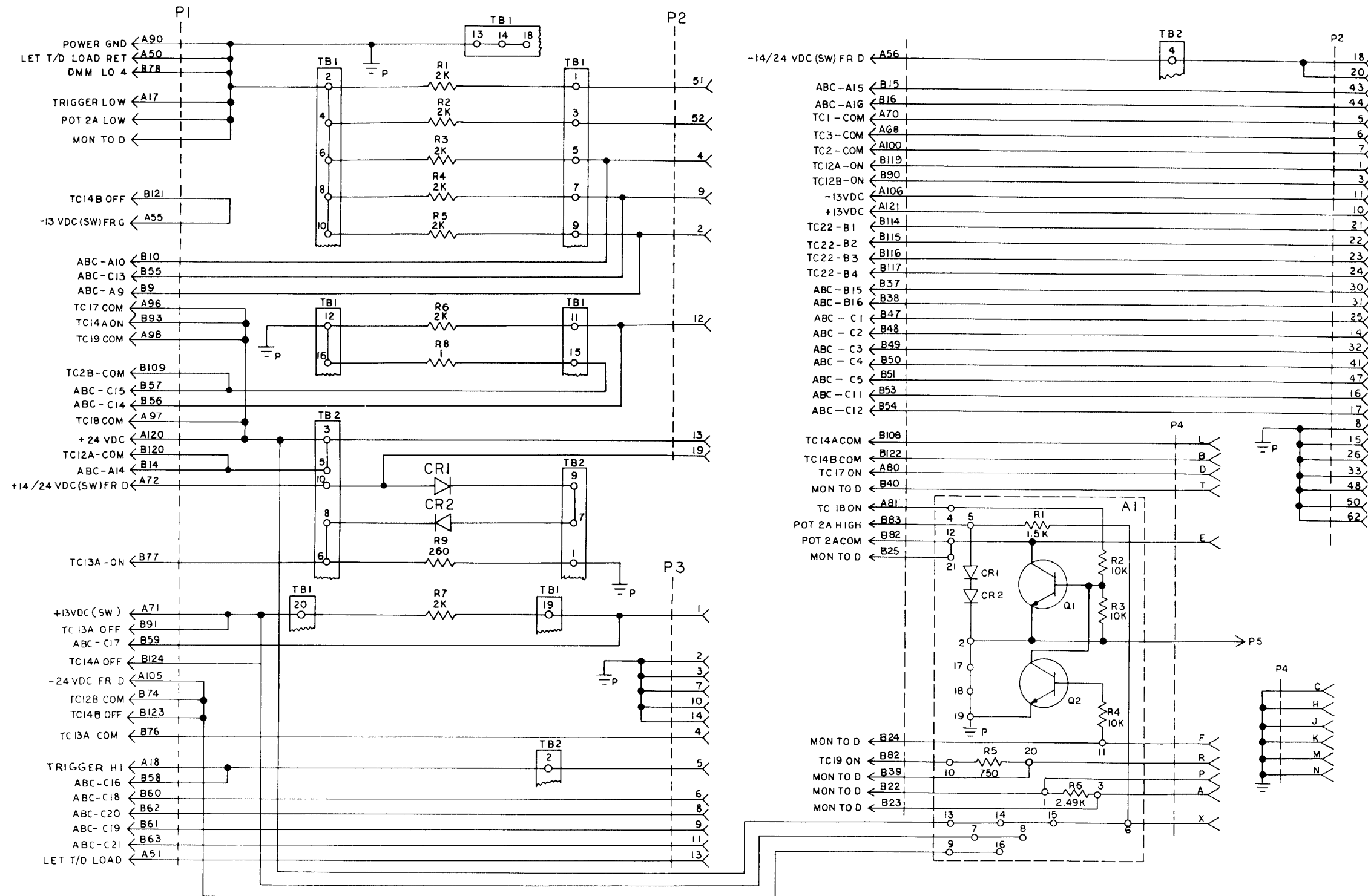
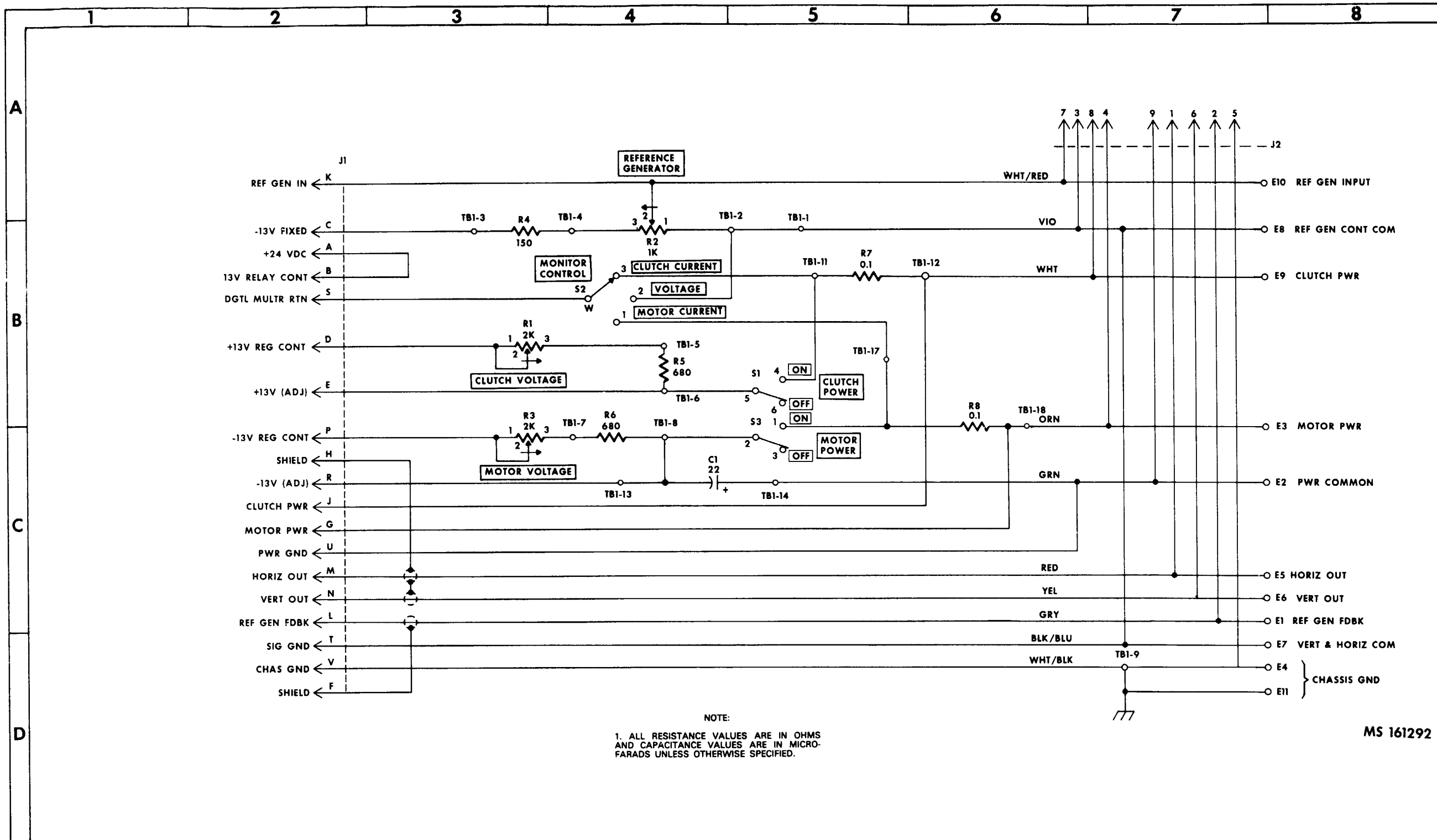


Figure 5-21. Test adapter A15 (10275956) schematic diagram



NOTE:
1. ALL RESISTANCE VALUES ARE IN OHMS
AND CAPACITANCE VALUES ARE IN MICRO-
FARADS UNLESS OTHERWISE SPECIFIED.

MS 161292

Figure 5-22. Nutator test adapter schematic diagram

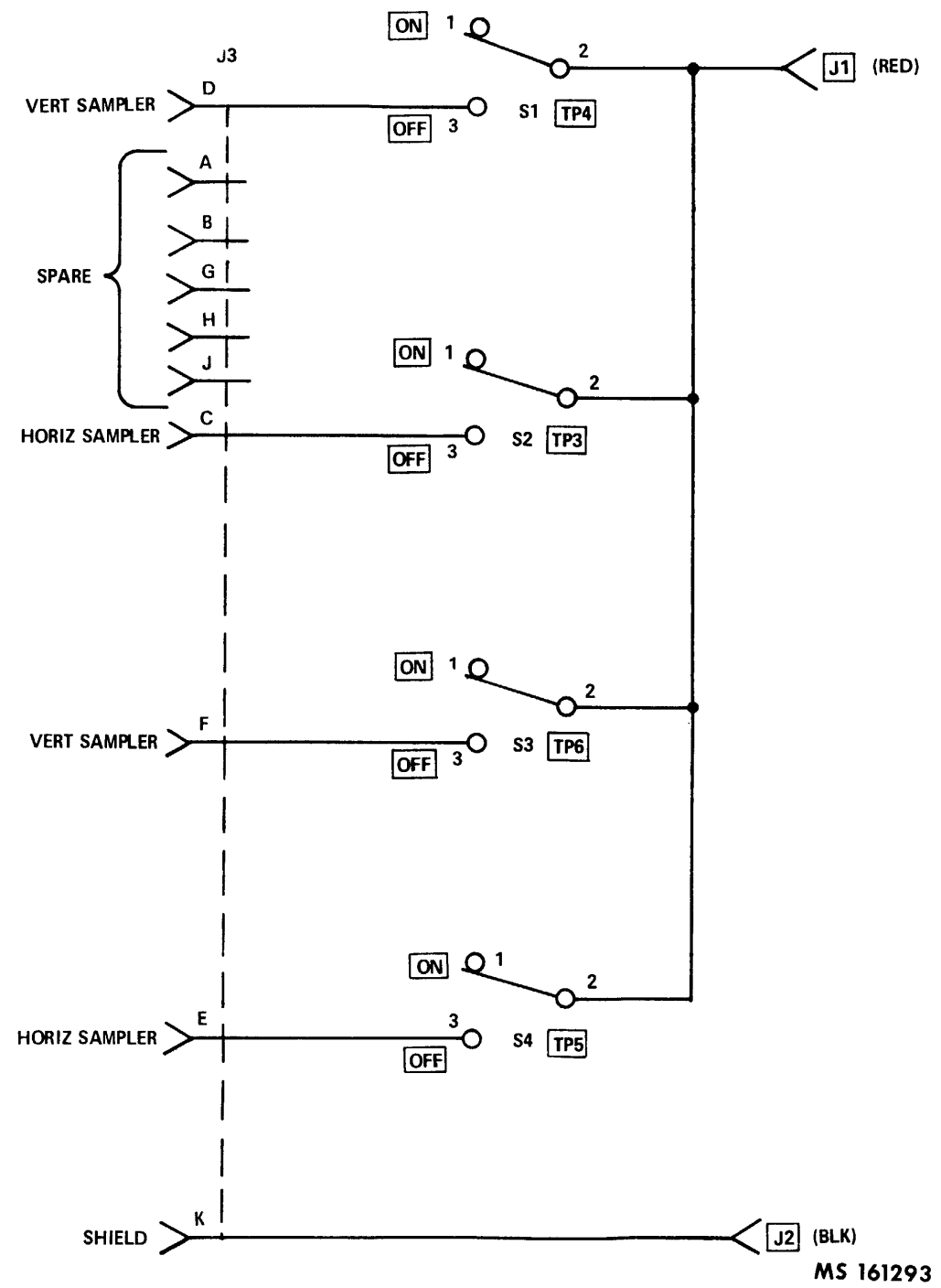


Figure 5-22. Test phase control adapter
-schematic diagram

CHAPTER 6
QQ - SCHEMATIC DIAGRAMS

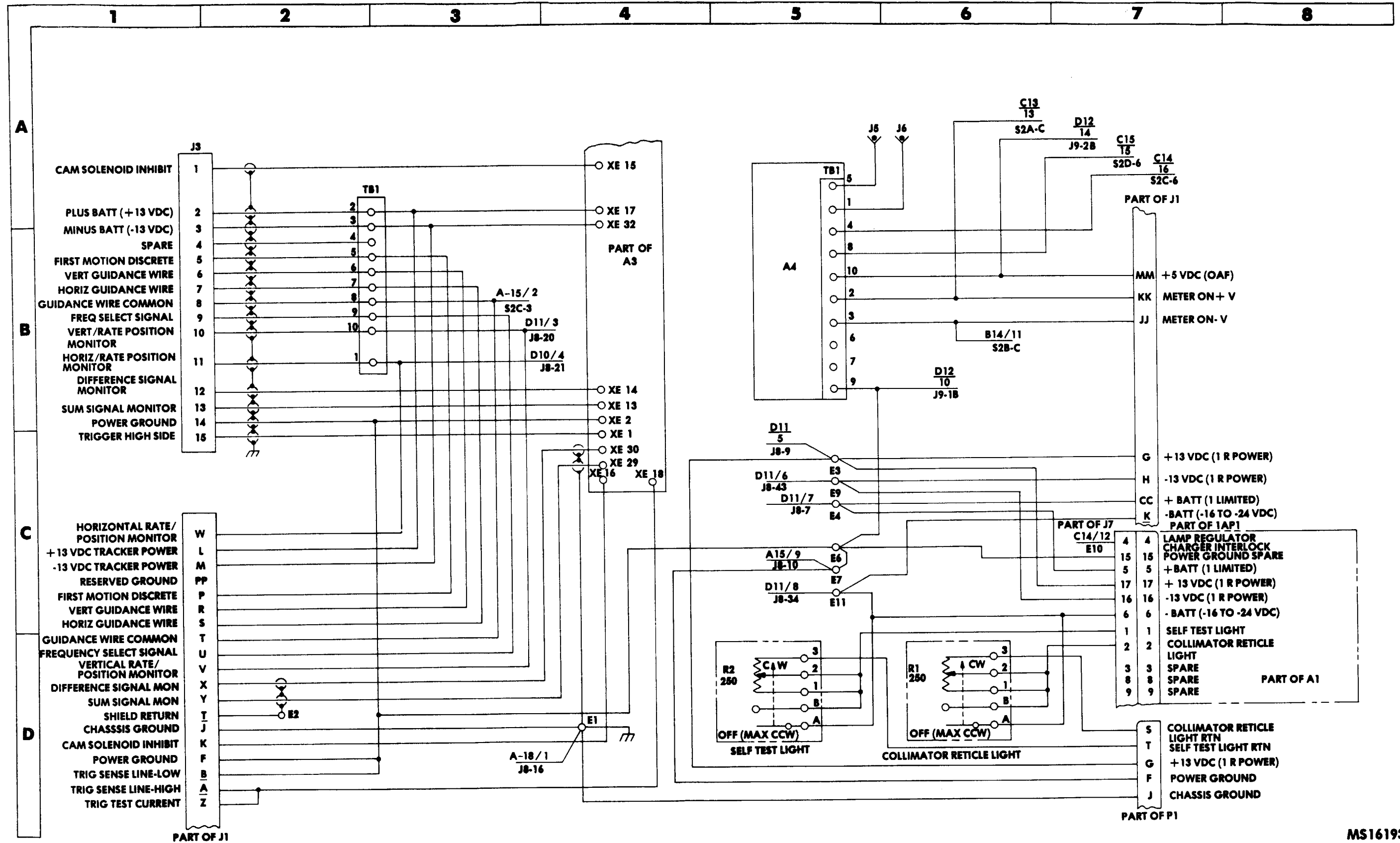


Figure 6-1. Night optical alignment fixture schematic diagram (sheet 1 of 3)

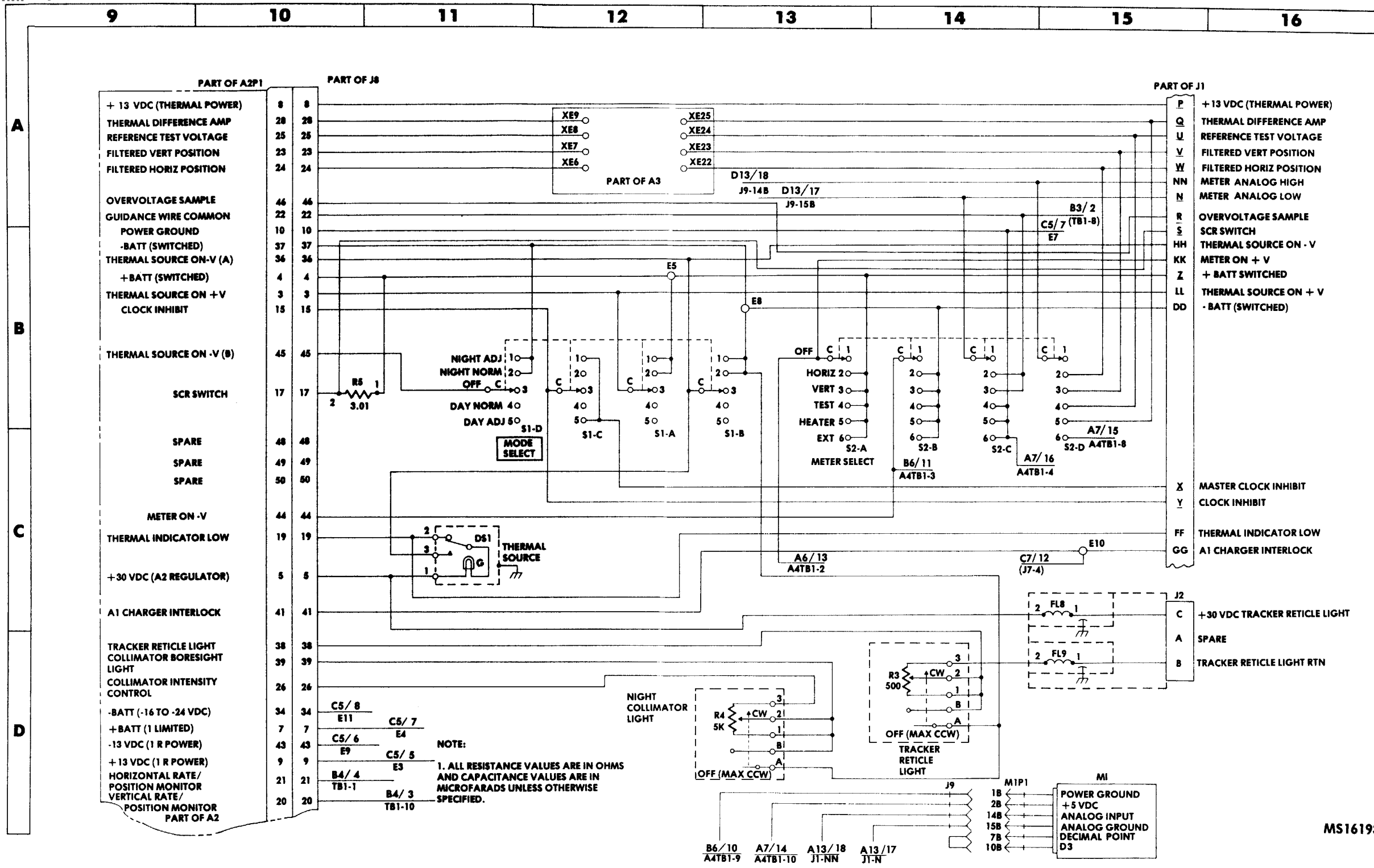


Figure 6-1. Night optical alignment fixture schematic diagram (sheet 2 of 3)

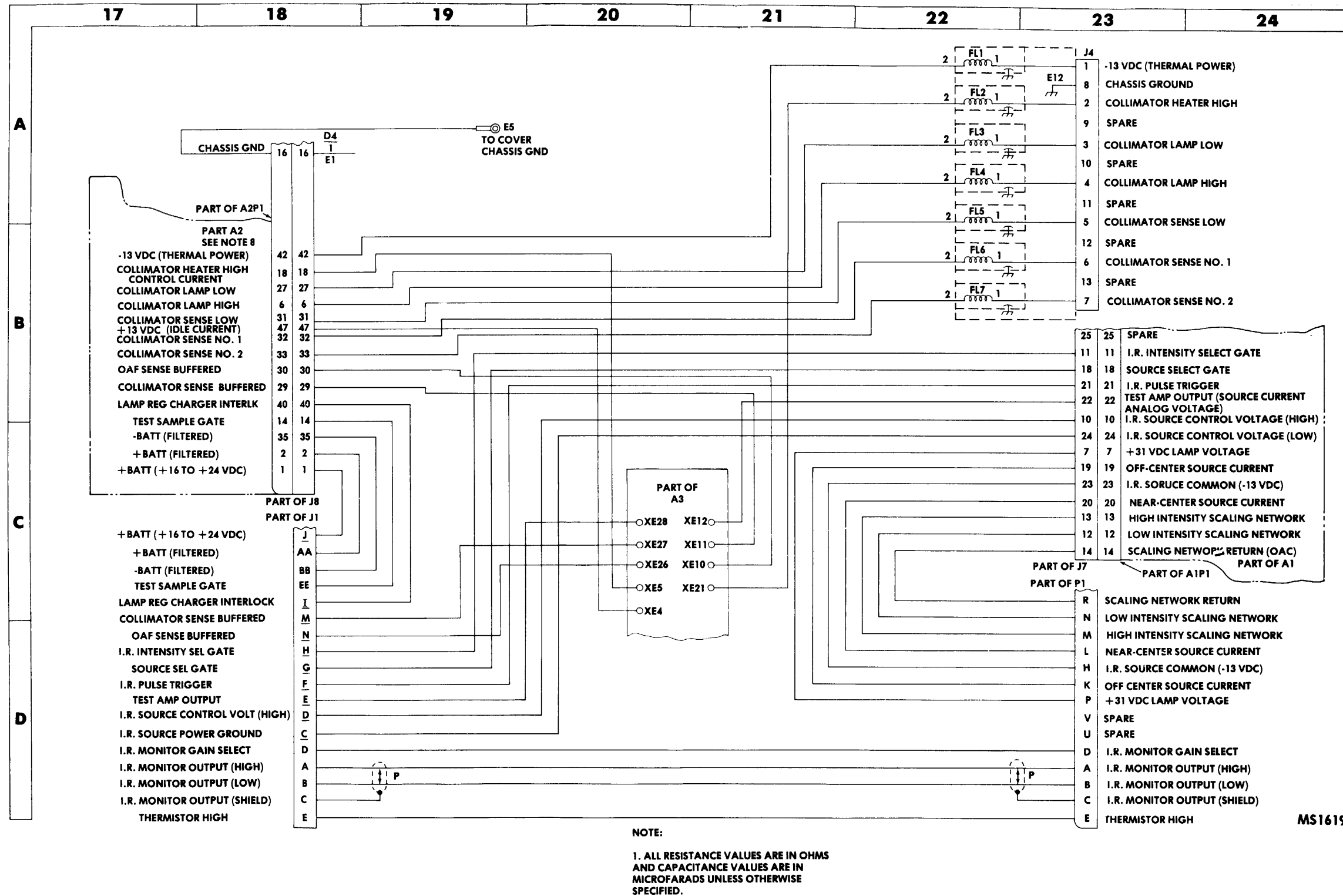
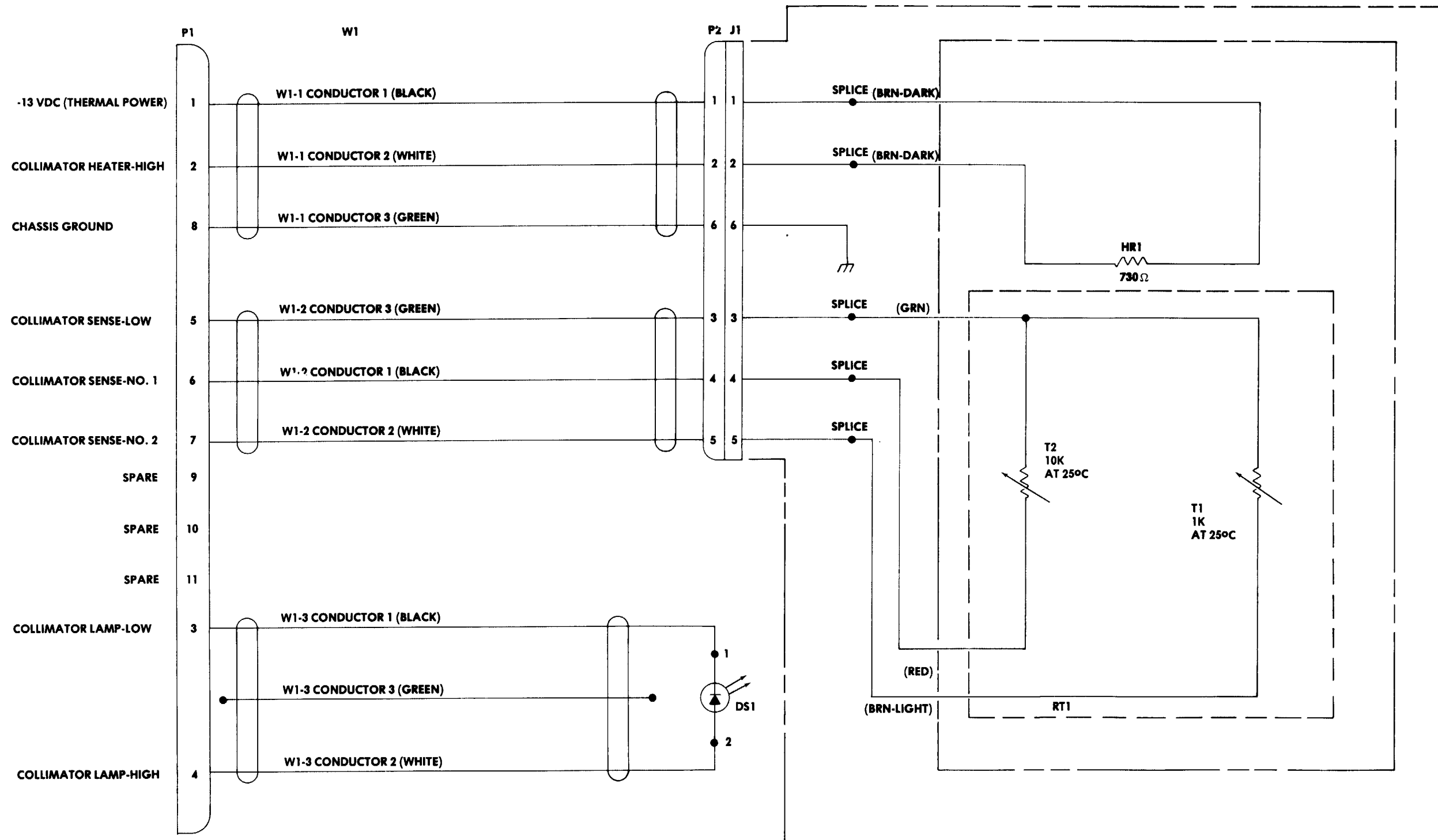


Figure 6-1. Night optical alignment fixture schematic diagram (sheet 3 of 3)



MS161937

Figure 6-2. Thermal collimator schematic diagram

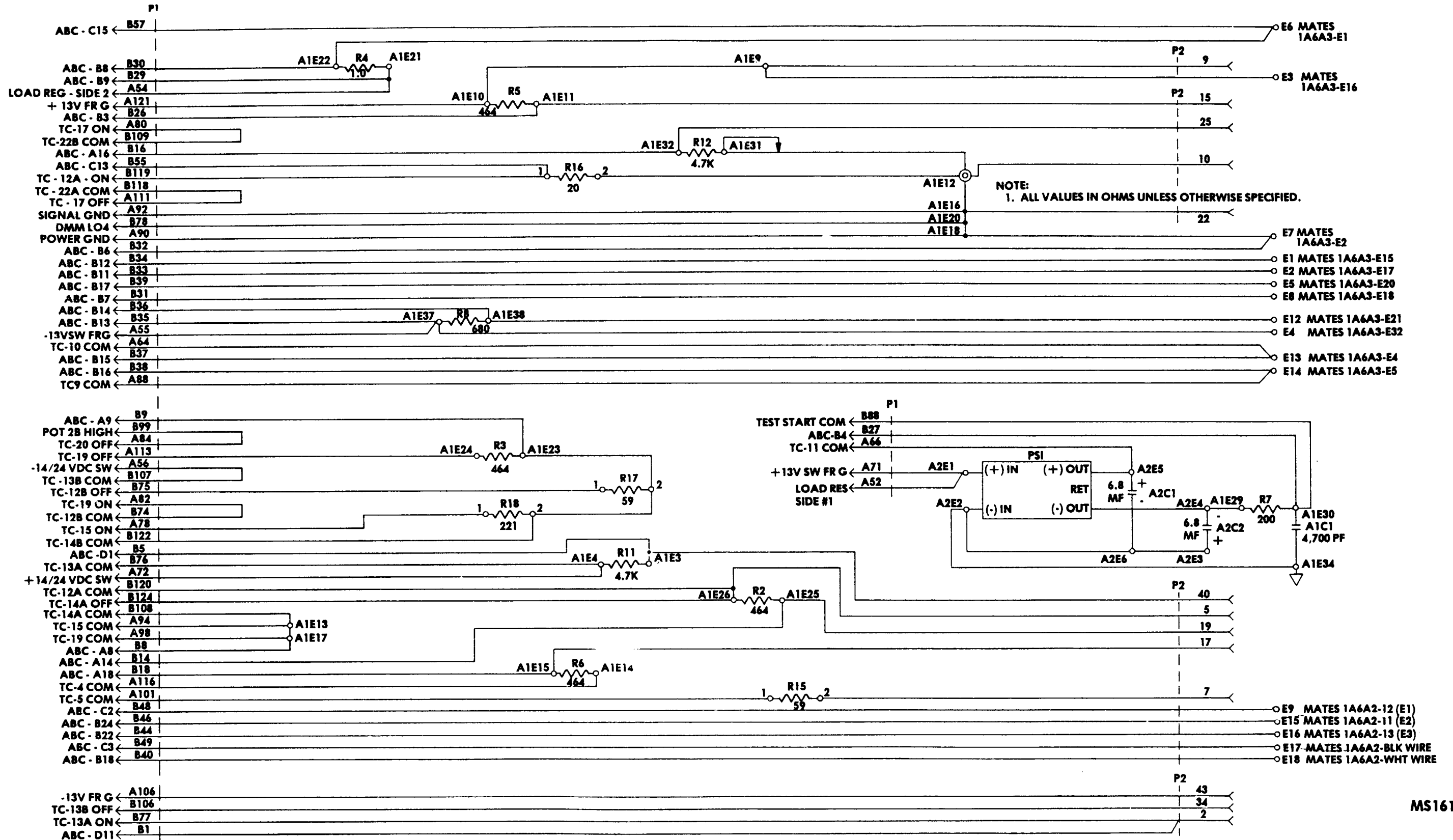


Figure 6-3. A-16 adapter schematic diagram (sheet 1 of 2)

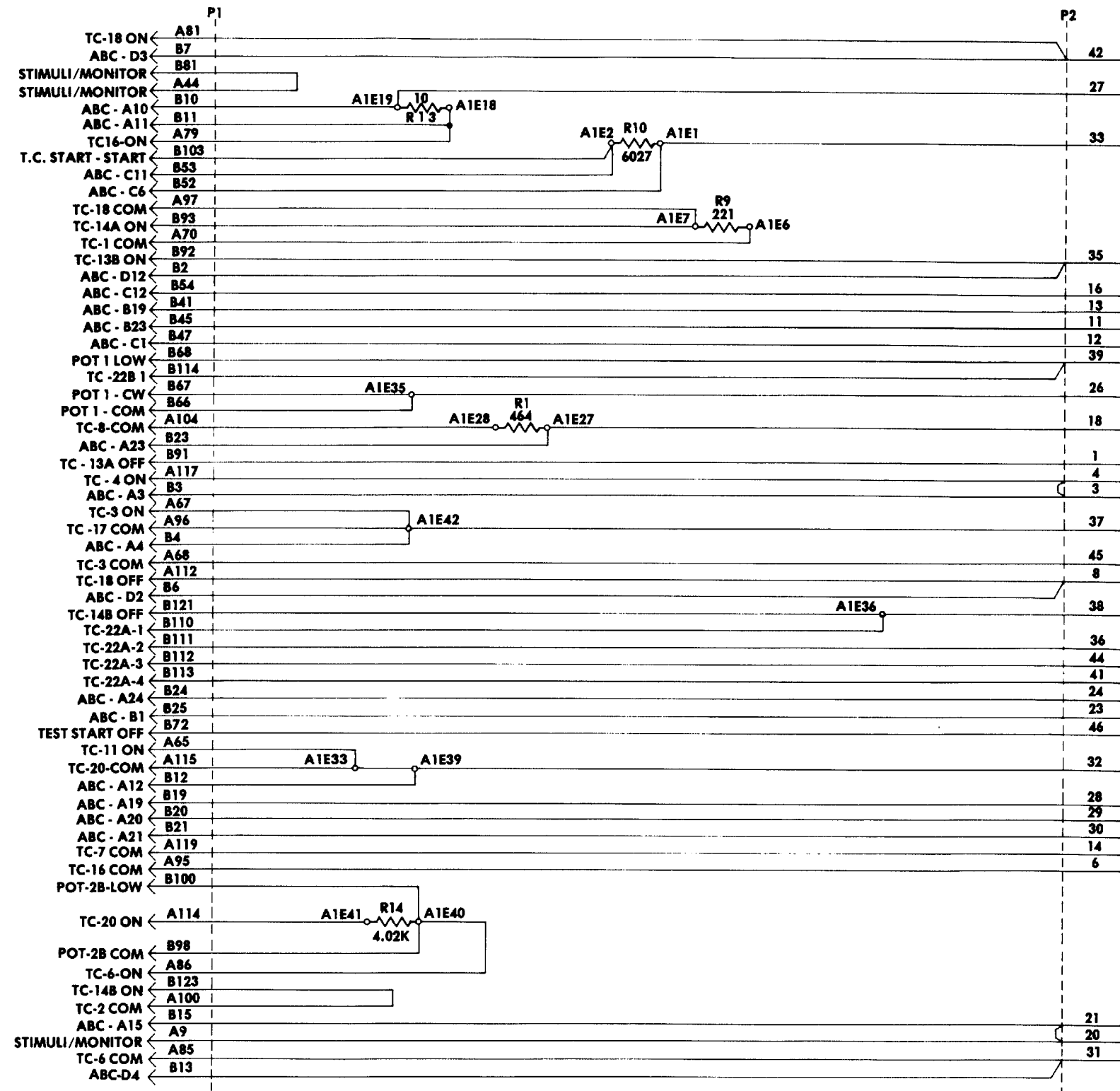


Figure 6-3. A-16 adapter schematic diagram (sheet 2 of 2)

MS161939

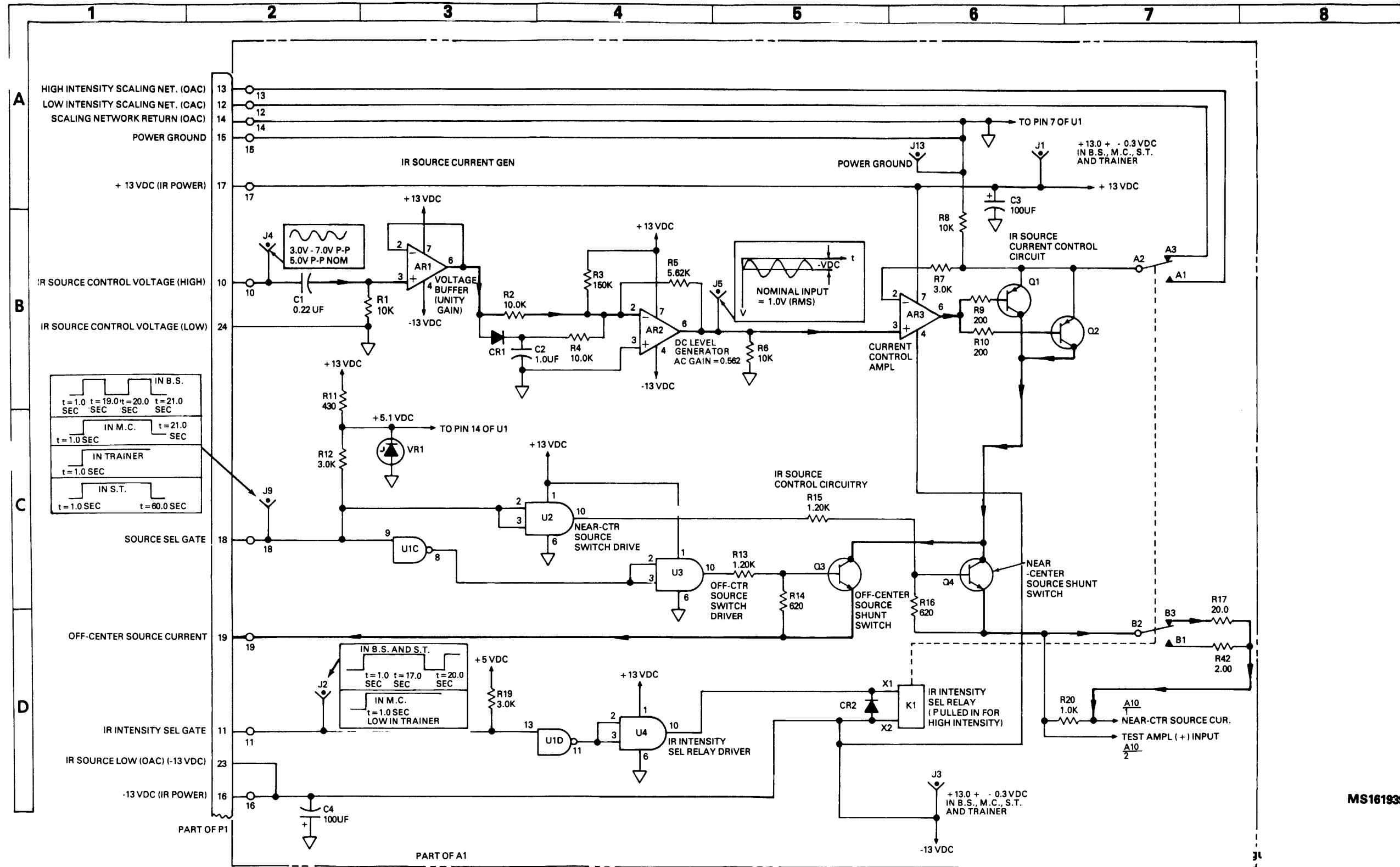


Figure 6-4. Schematic diagram 1A6A1 (sheet 1 of 2)

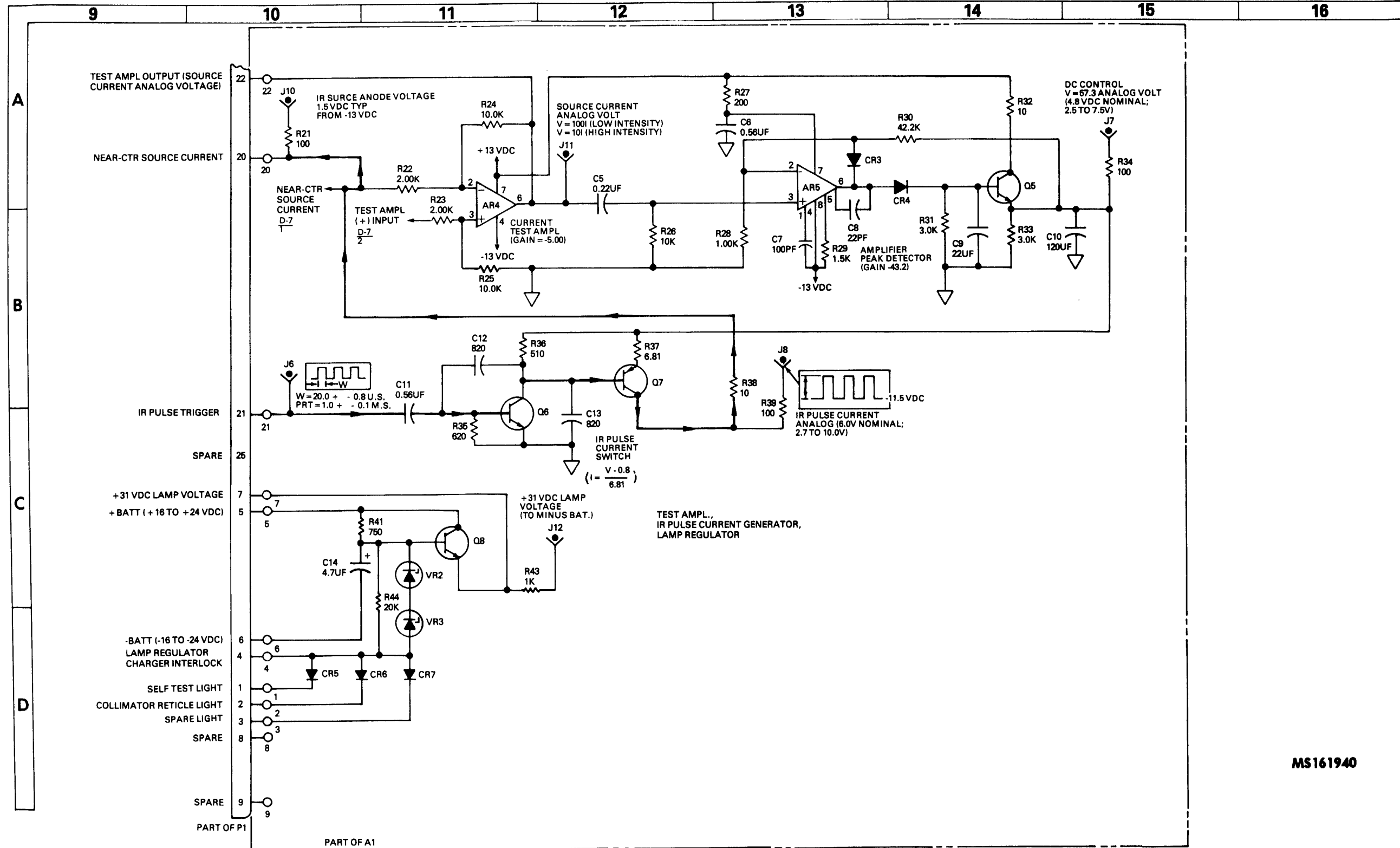


Figure 6-4. Schematic diagram 1A6A1 (sheet 2 of 2)

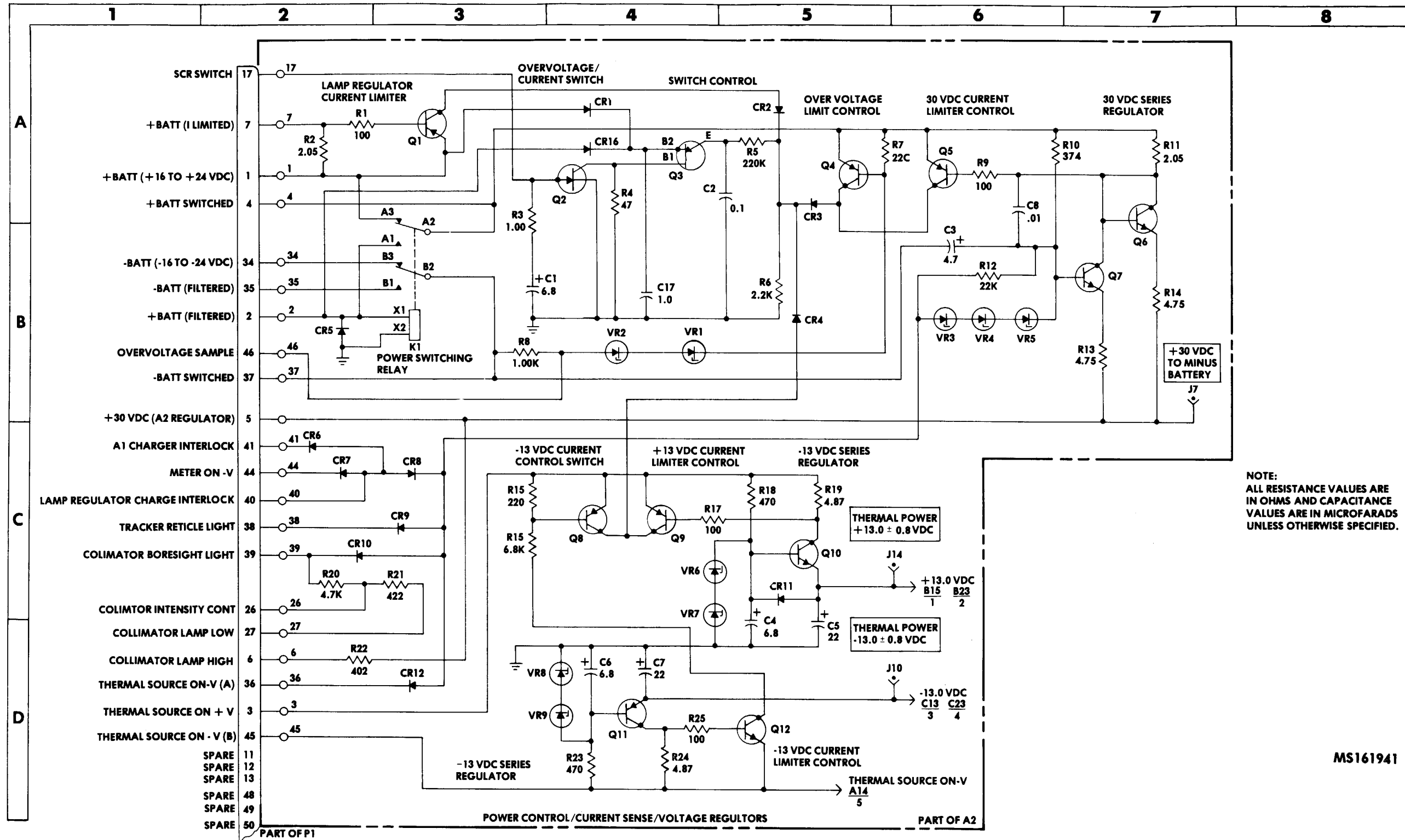


Figure 6-5. 1A6A2 Circuit card schematic diagram(sheet 1 of 3)

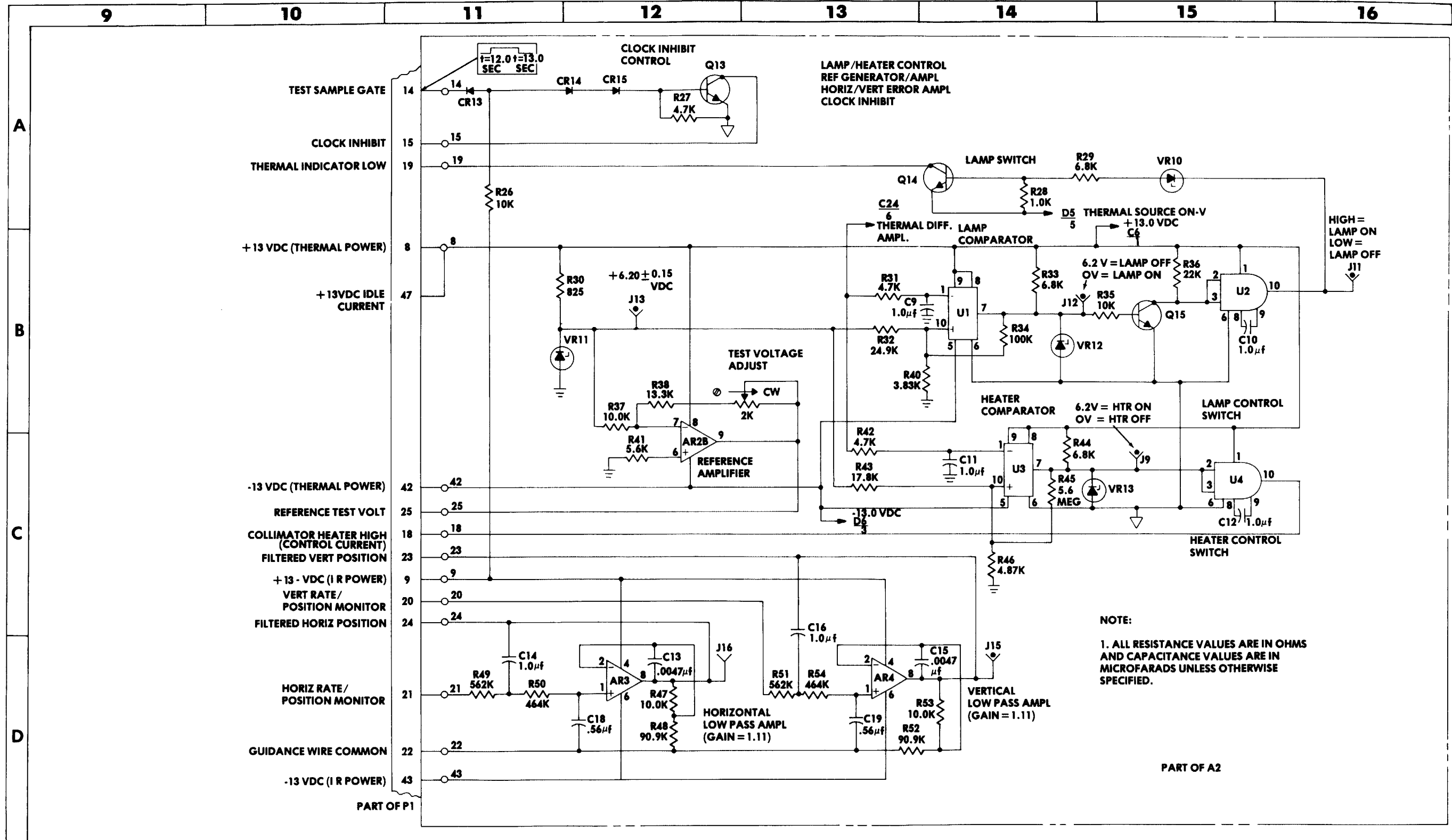
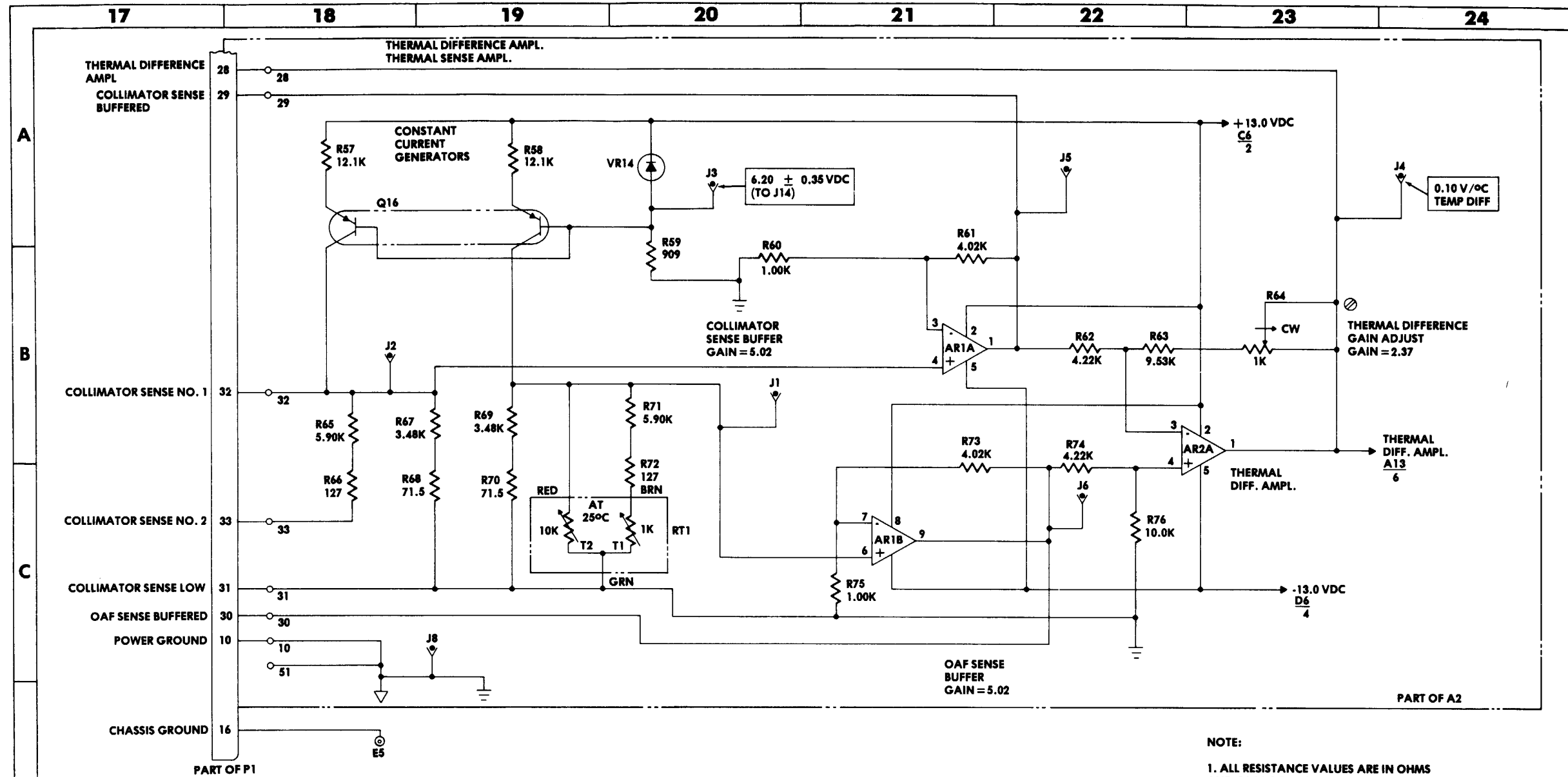


Figure 6-5. 1A6A2 Circuit card schematic diagram(sheet 2 of 3)

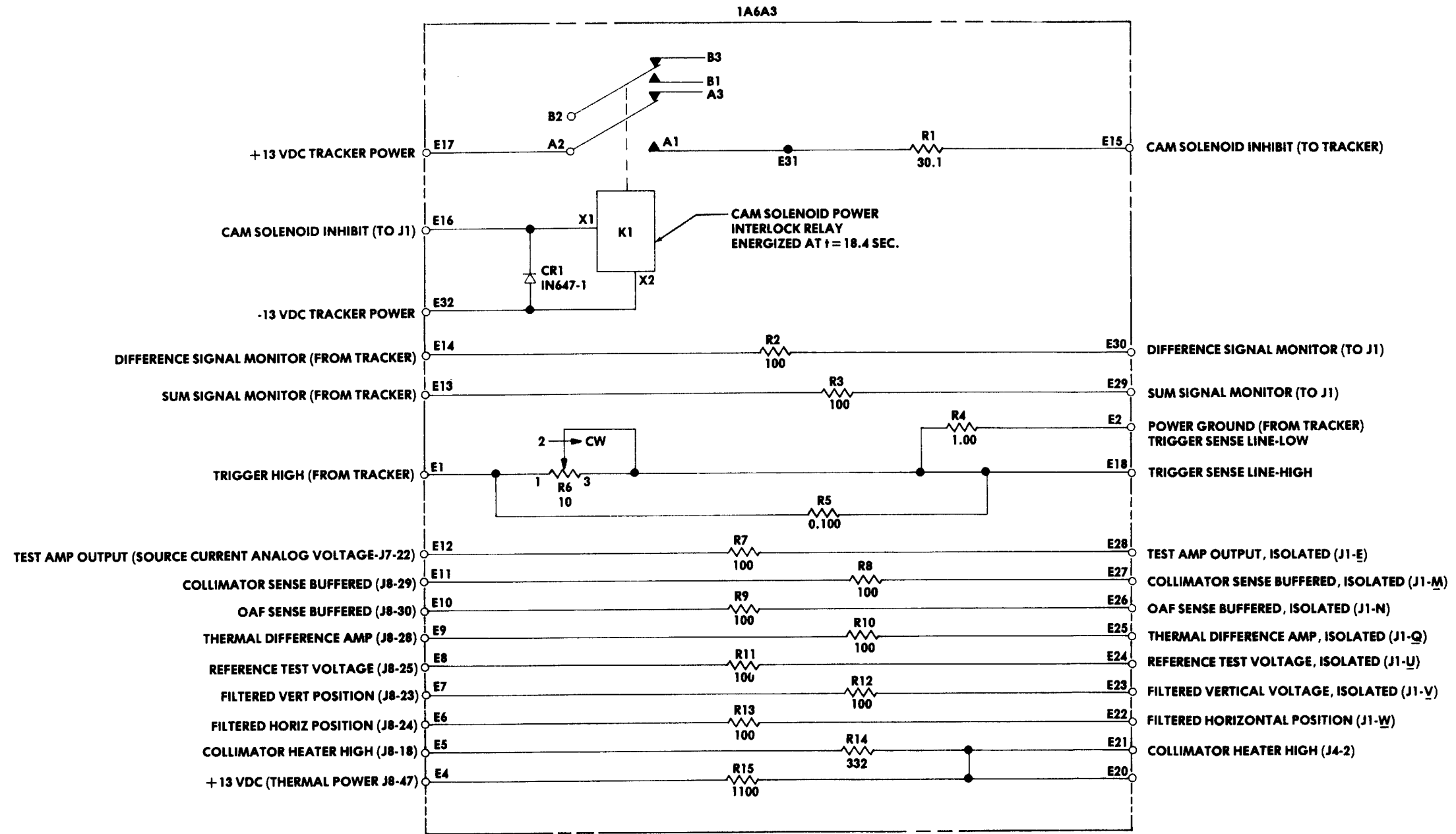
MS161942



NOTE:
 1. ALL RESISTANCE VALUES ARE IN OHMS
 AND CAPACITANCE VALUES ARE IN
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 SPECIFIED.

MS161943

Figure 6-5 1A6A2 Circuit card schematic diagram (sheet 3 of 3)

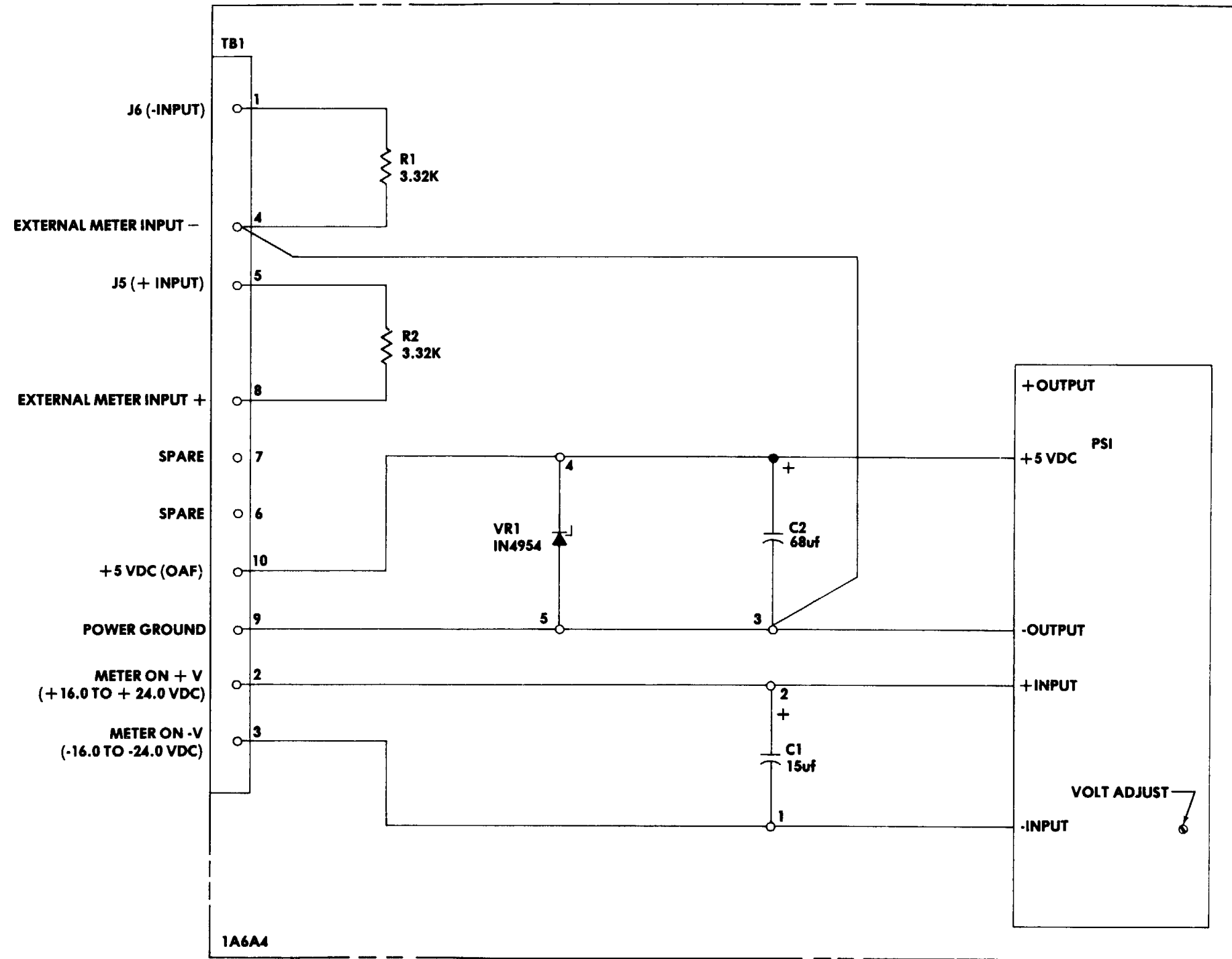


NOTE:

1. ALL RESISTANCE VALUES ARE IN OHMS AND CAPACITANCE VALUES ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

MS161944

Figure 6-6 1A6A3 schematic



MS161945

NOTE:

1. ALL RESISTANCE VALUES ARE IN OHMS AND CAPACITANCE VALUES ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

Figure 6-7 1A6A4 Circuit card schematic

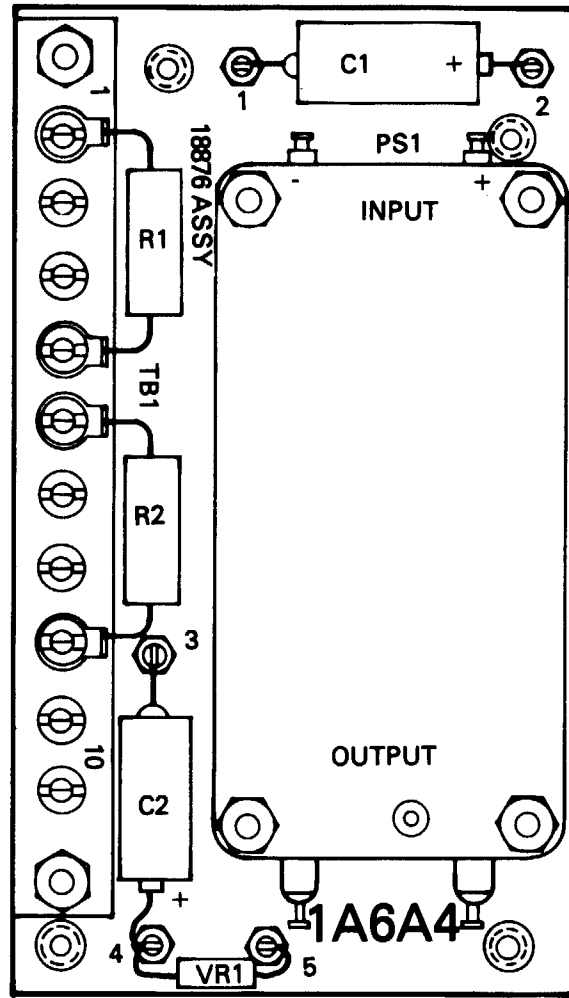


Figure 6-8 Electronic component assy 1A6A4 parts location

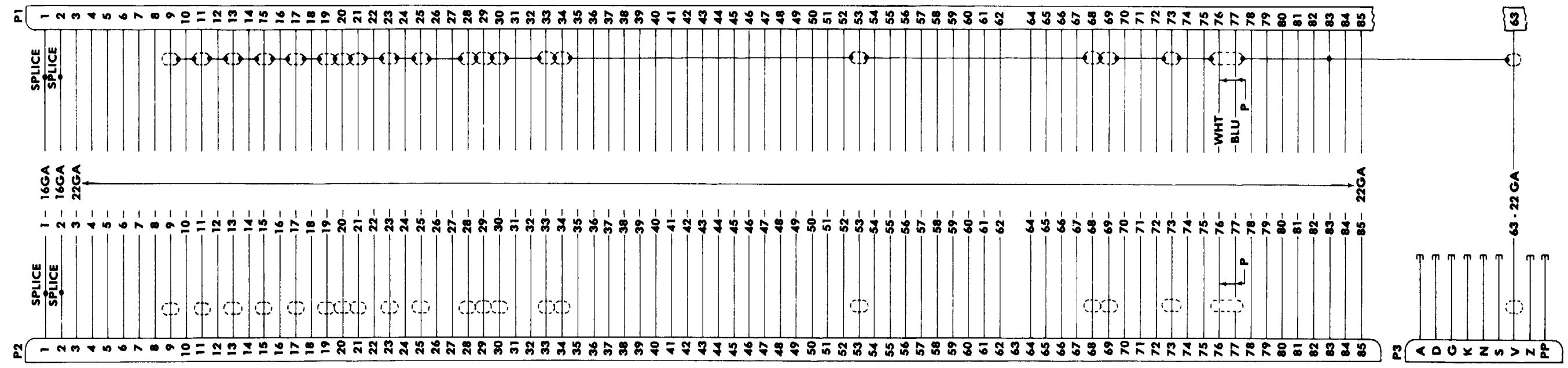


Figure 6-9 Special purpose cable -3W1 schematic diagram

MS161946

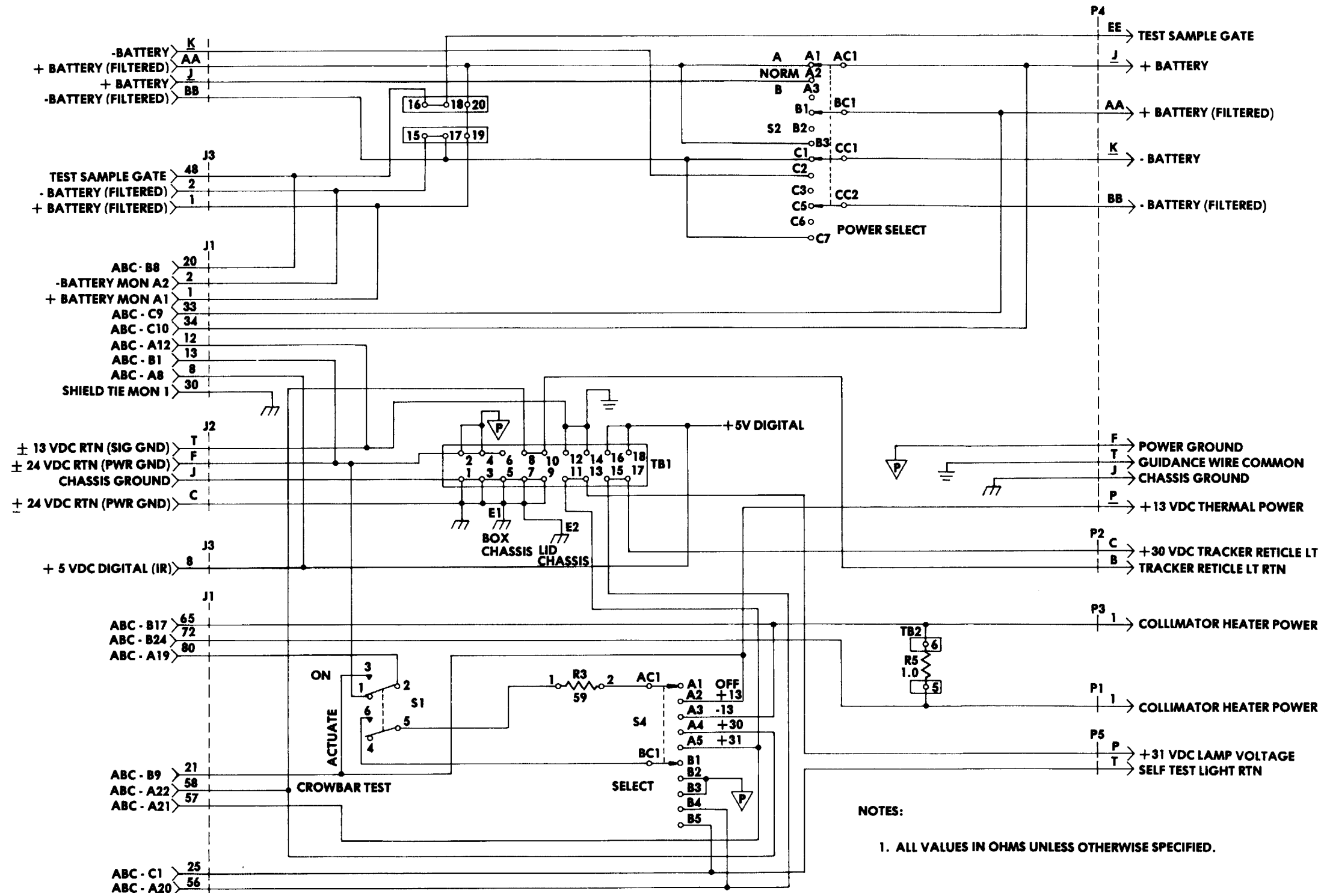


Figure 6-10 Test adapter schematic diagram (sheet 1 of 5)

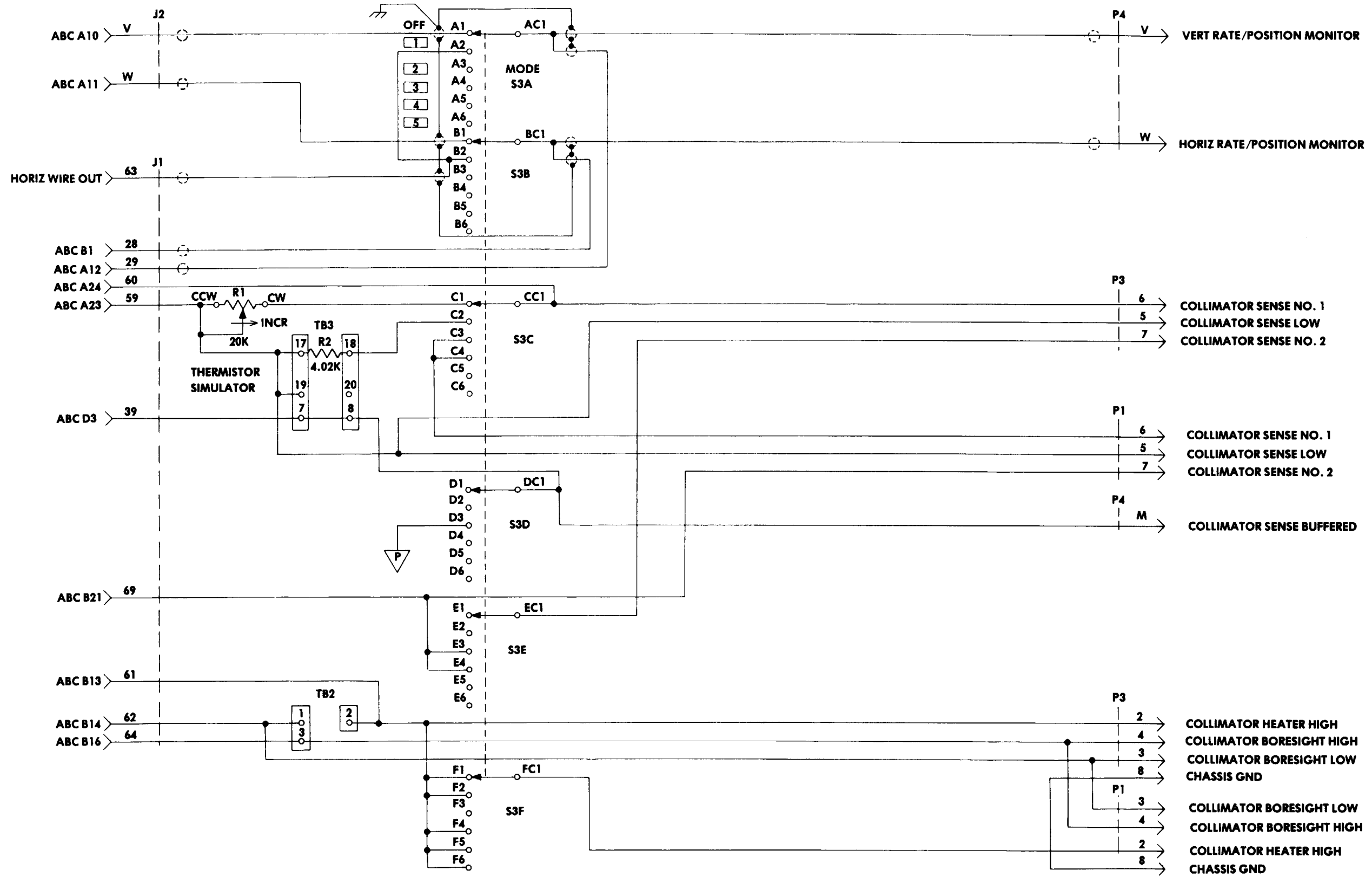


Figure 6-10 Test Adapter schematic diagram (sheet 2 of 5)

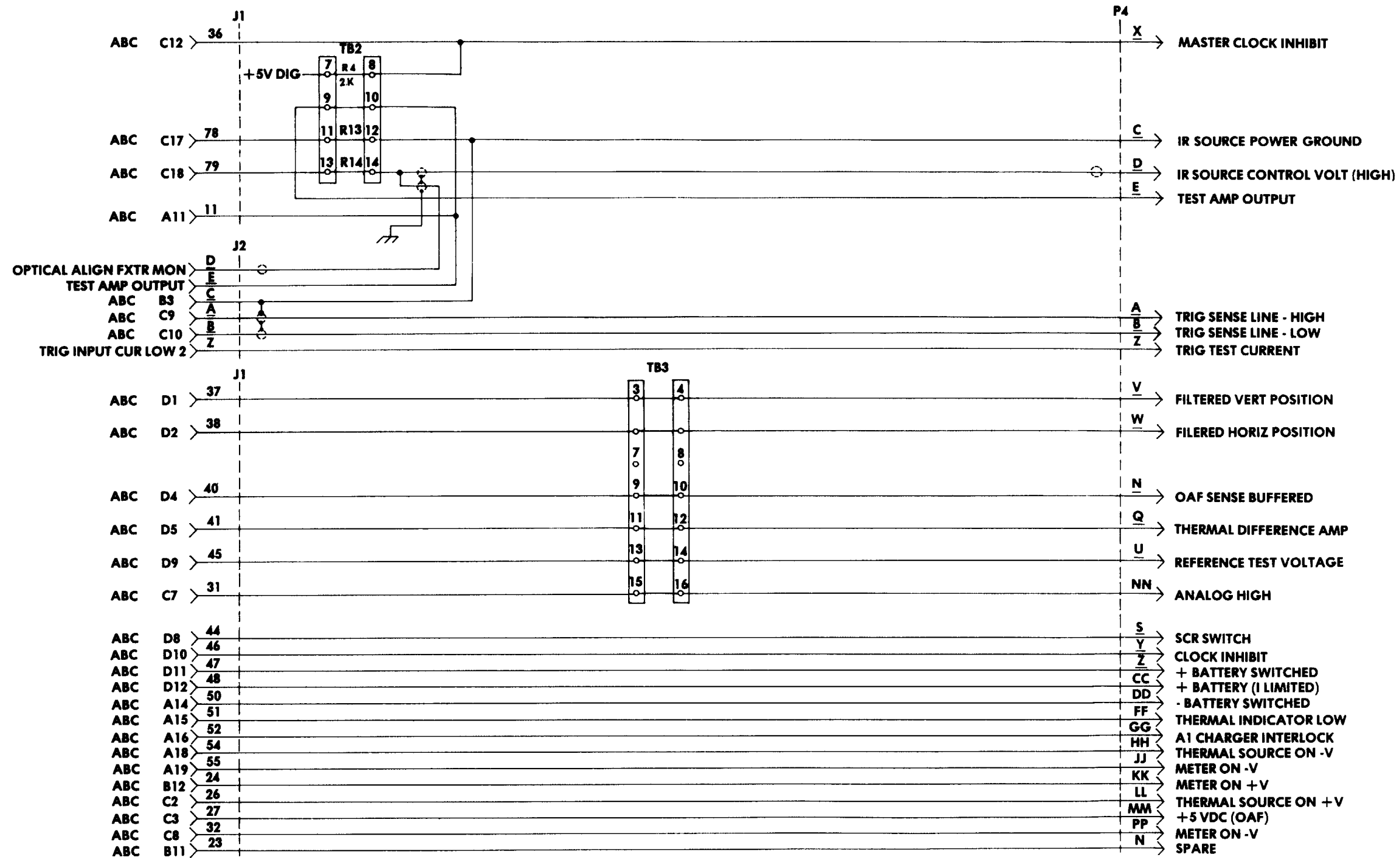
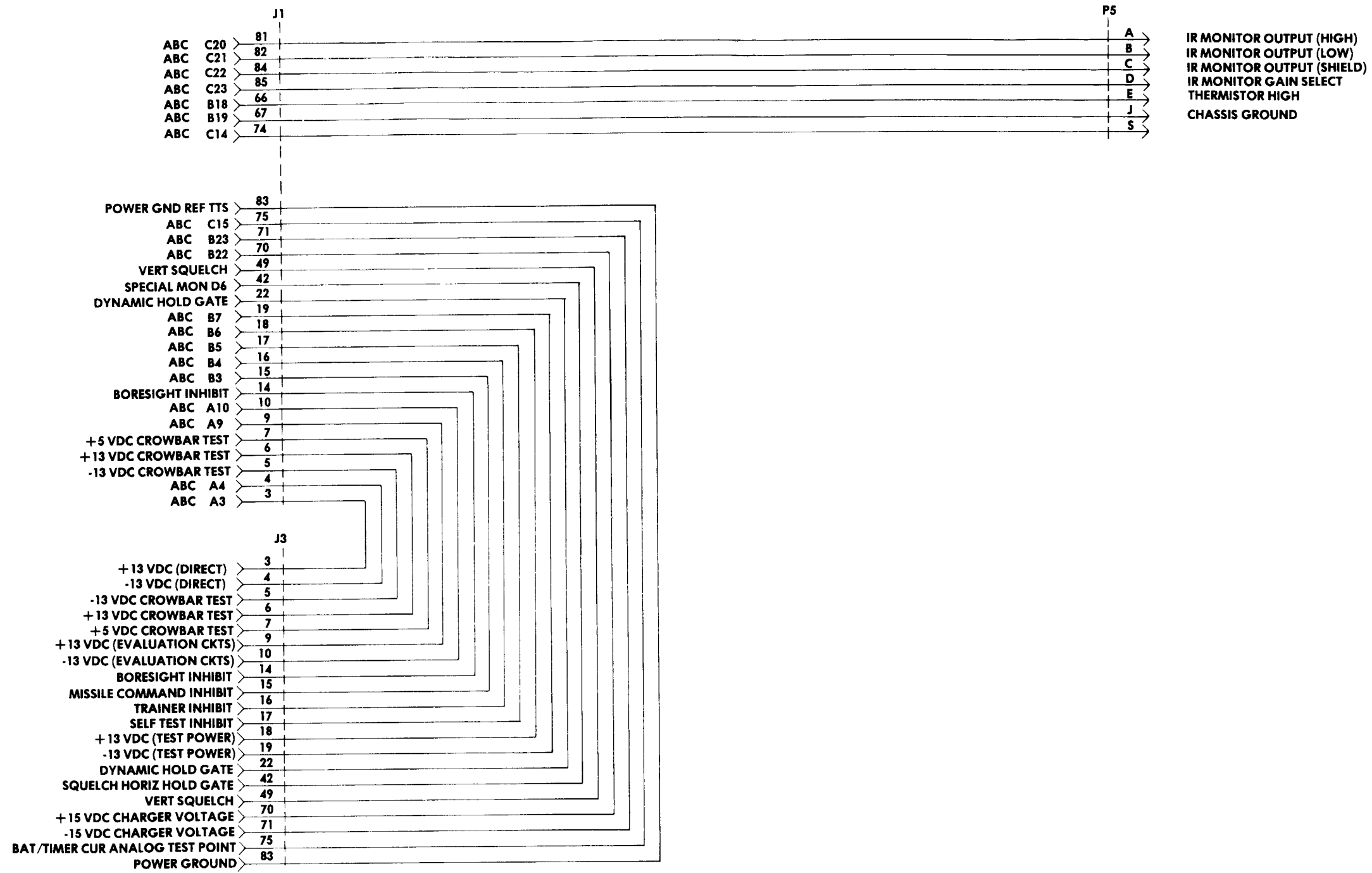


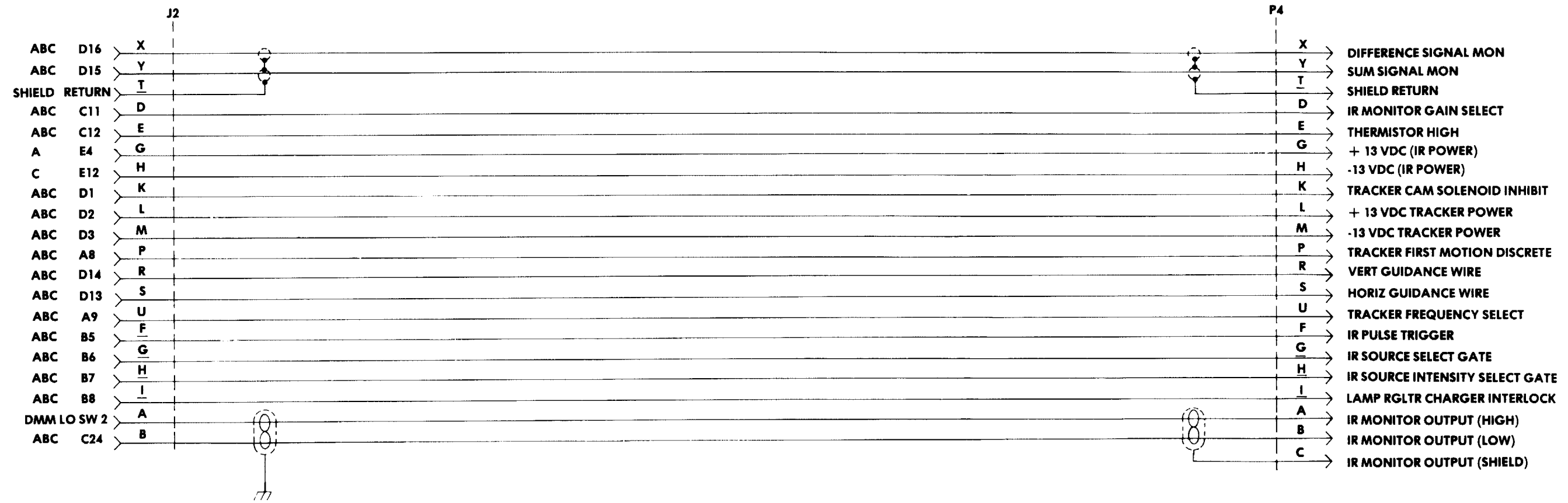
Figure 6-10 Test Adapter schematic diagram (sheet 3 of 5)



IR MONITOR OUTPUT (HIGH)
 IR MONITOR OUTPUT (LOW)
 IR MONITOR OUTPUT (SHIELD)
 IR MONITOR GAIN SELECT
 THERMISTOR HIGH
 CHASSIS GROUND

Figure 6-10 Test Adapter schematic diagram (sheet 4 of 5)

MS161950



MS161951

Figure 6-10 Test adapter schematic (sheet 5 of 5)

By Order of the Secretary of the Army:

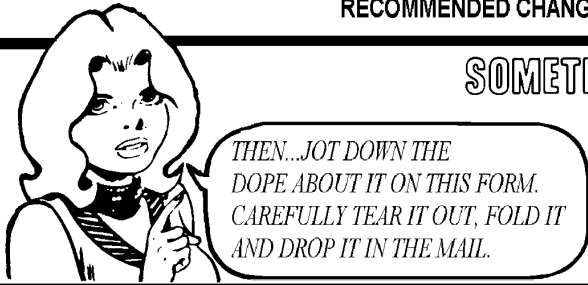
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