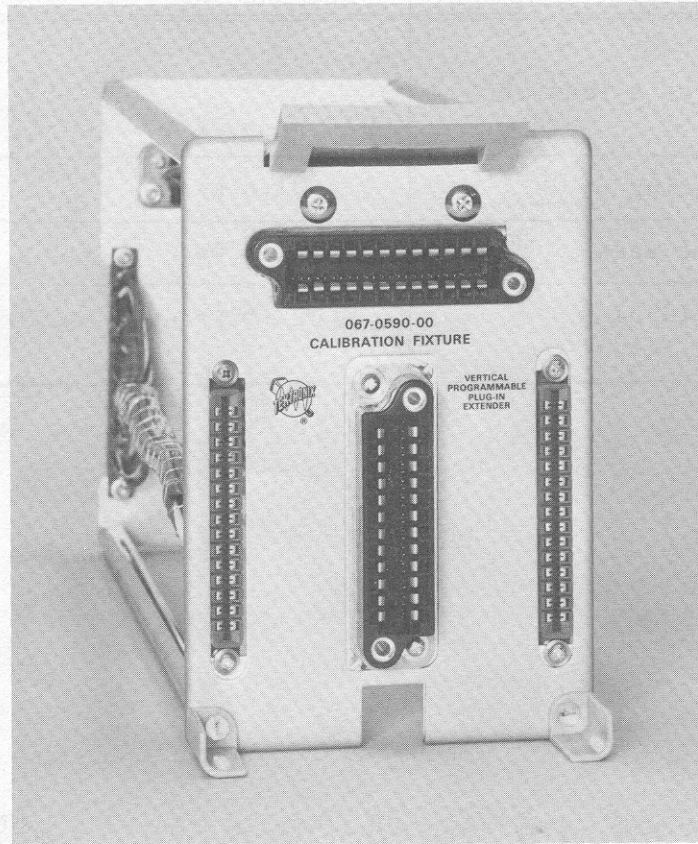# 067-0590-00 CALIBRATION FIXTURE
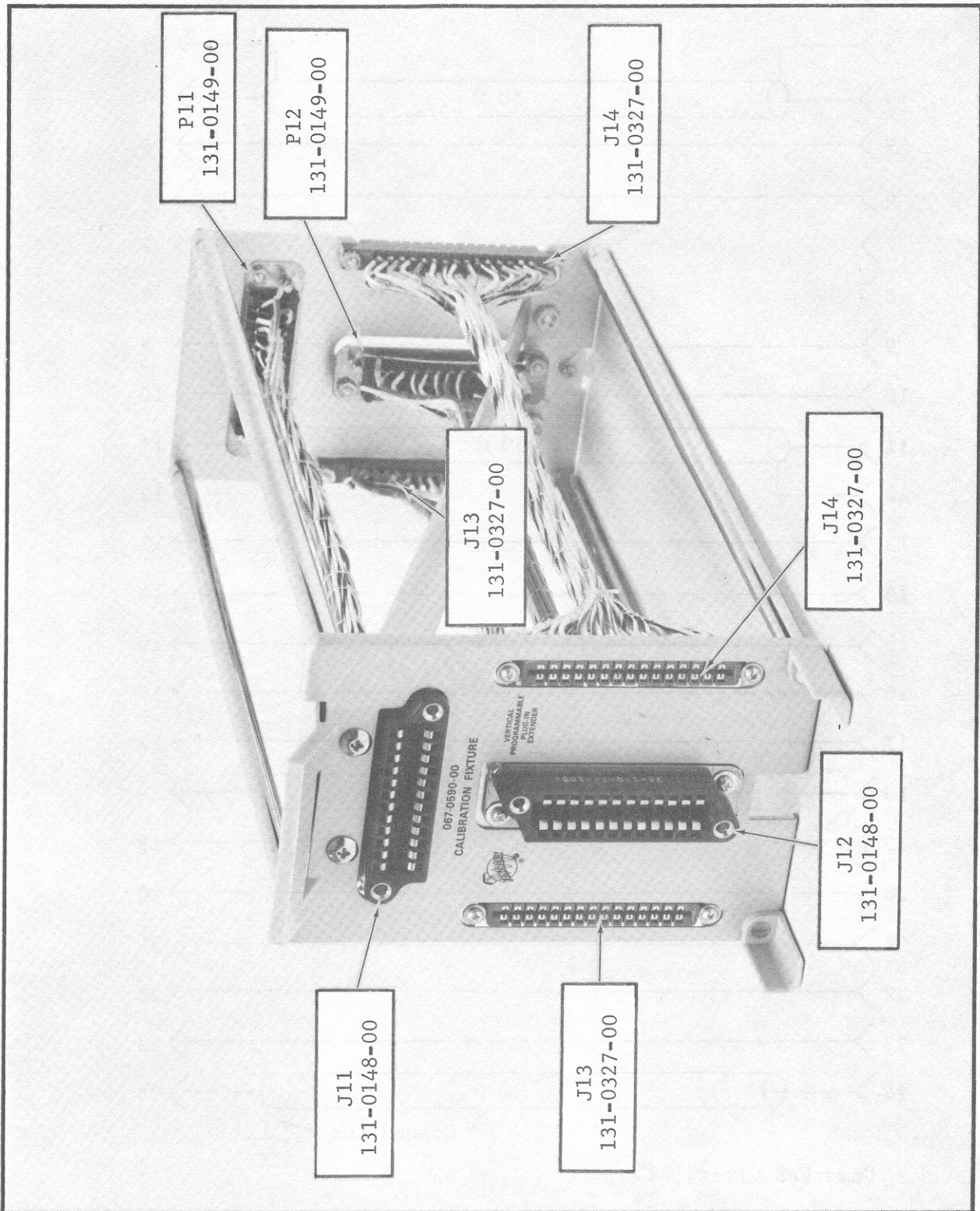### Programmable Vertical Plug-In Extender

The 067-0590-00 Plug-In Extender is designed primarily for use with the Tektronix Type 568 or R568 Oscilloscope when calibrating or troubleshooting the Type 3S5 or 3S6 Programmable Vertical. The Extender can also be used with the Type 568 or other 560-Series Oscilloscopes to extend digital vertical plug-in units, as well as non-digital vertical and time-base units.

The Extender has a support and locking mechanism on the front panel, thus eliminating the need to externally support the extended plug-in unit. The Extender does not lock into the oscilloscope, therefore rackmount oscilloscopes should not be tilted when the Extender is used.

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	PERFORMANCE REQUIREMENT	SUPPLEMENTAL INFORMATION
Cable Delay (viewed as a loss of lead time)		
Internal Triggering	≈1.6 ns	
Strobe from Time Base	≈1.6 ns	
Strobe to Head (3S6)	≈1.6 ns	

LOCATION OF CONNECTORS

P11
131-0149-00

P12
131-0149-00

J14
131-0327-00

J13
131-0327-00

J14
131-0327-00

J12
131-0148-00

J11
131-0148-00

J13
131-0327-00

067-0590-00
CALIBRATION FIXTURE

VERTICAL
PROGRAMMABLE
PLUG-IN
EXTENDER

POWER CONNECTORS

Unmarked wires, #22

DIGITAL CONNECTORS

J12   P12

1 >————⊙▭ 50 Ω ▭————> 1
                    Ground Lug ⏚
2 >—————————————————————————> 2

3 >————⊙▭ 50 Ω ▭————> 3
                    Ground Lug ⏚
4 >—————————————————————————> 4

5 >—————————————————————————> 5

6 >—————————————————————————> 6

7 >—————————————————————————> 7

8 >—————————————————————————> 8

9 >—————————————————————————> 9

10 >————————————————————————> 10

11 >————⊙▭ 50 Ω ▭————> 11
                    Ground Lug ⏚
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

Unmarked wires, #22

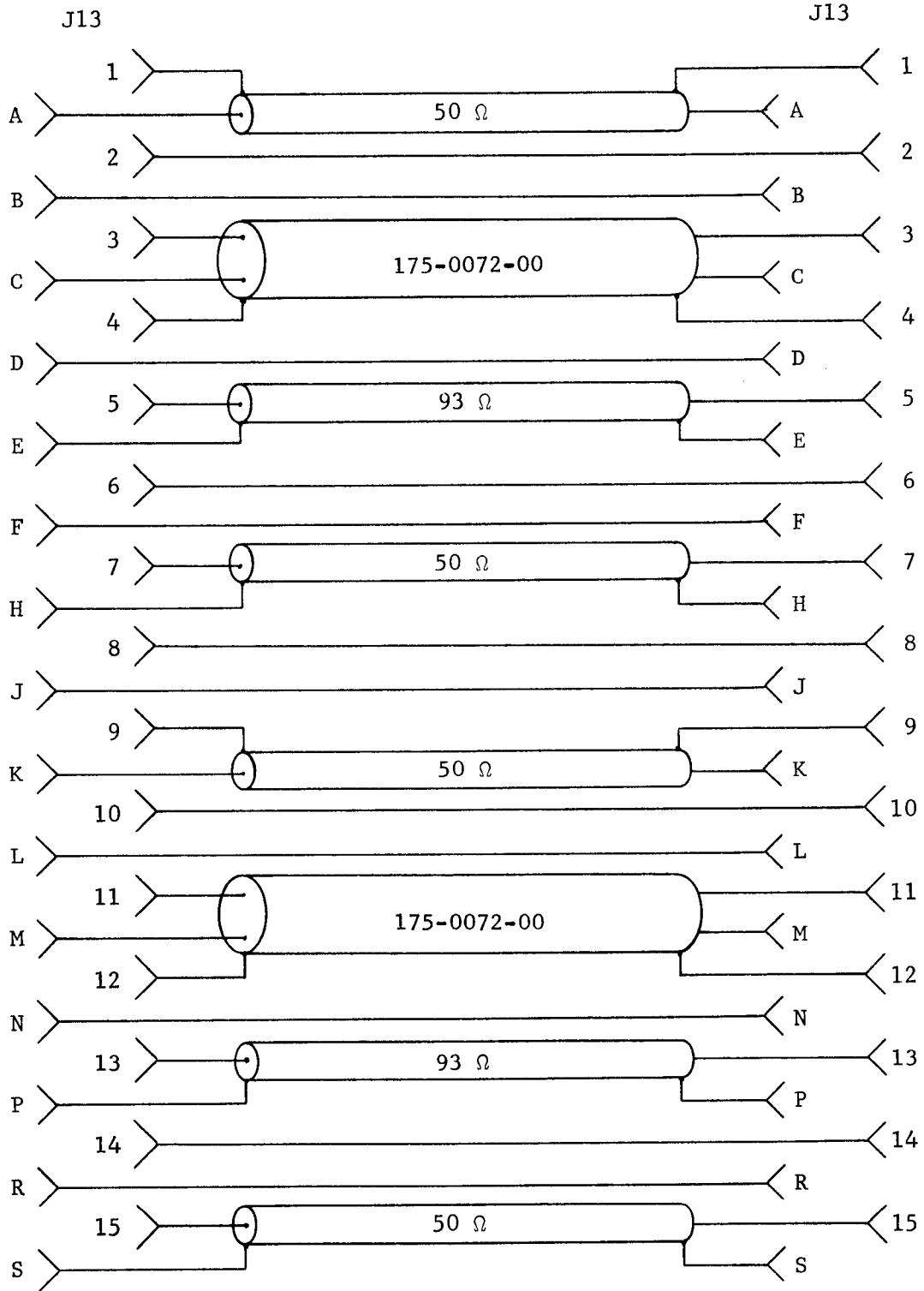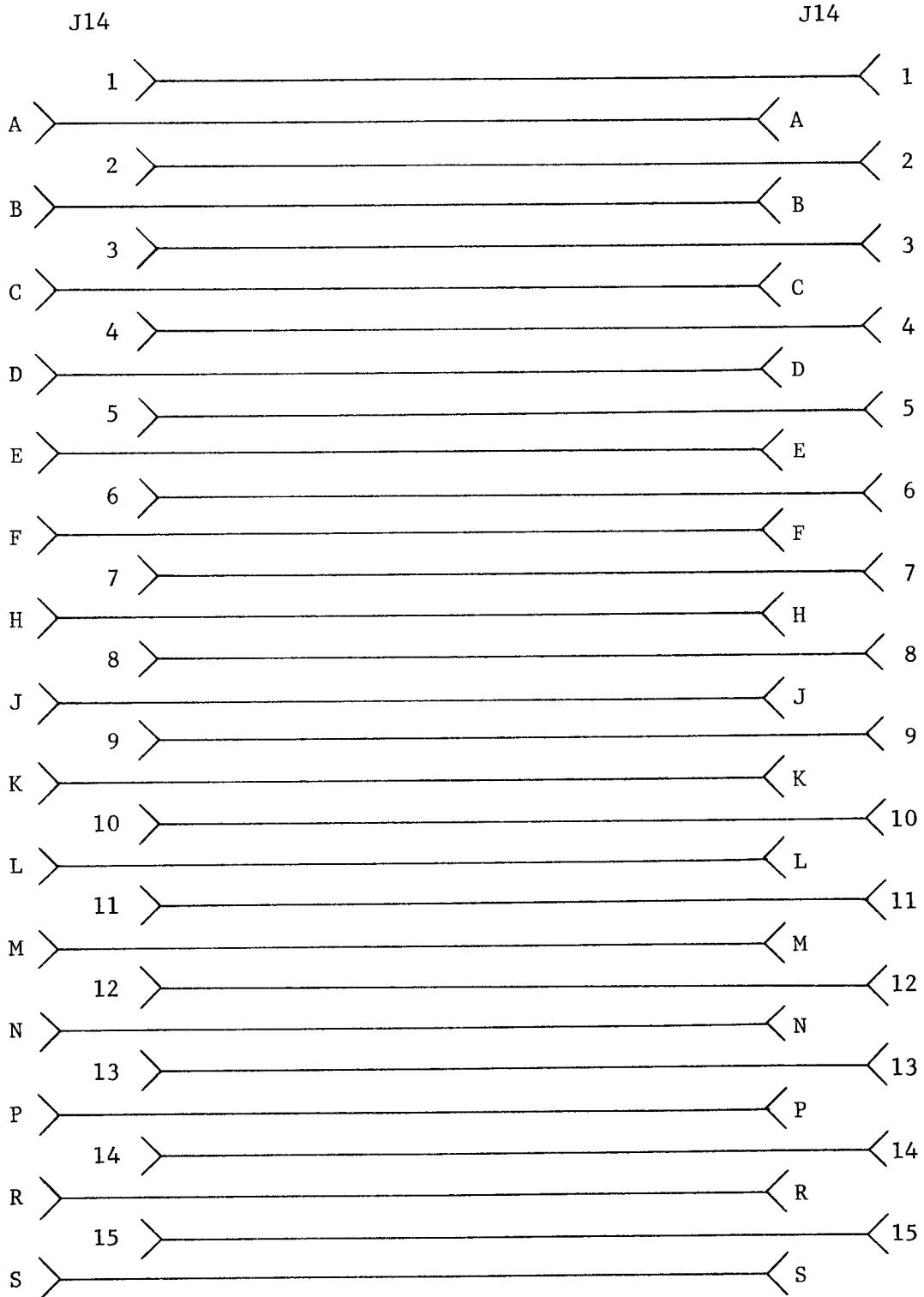A   5
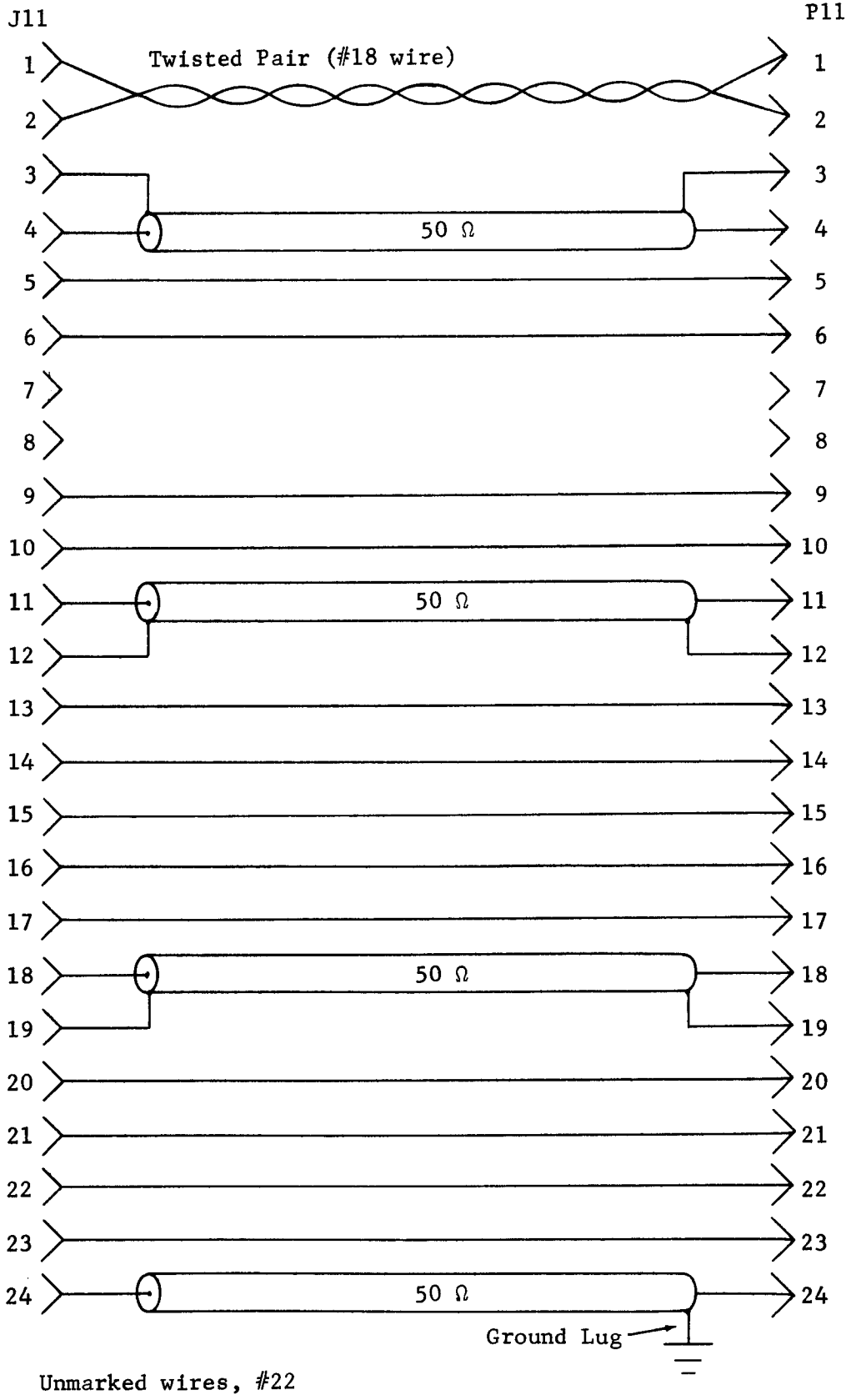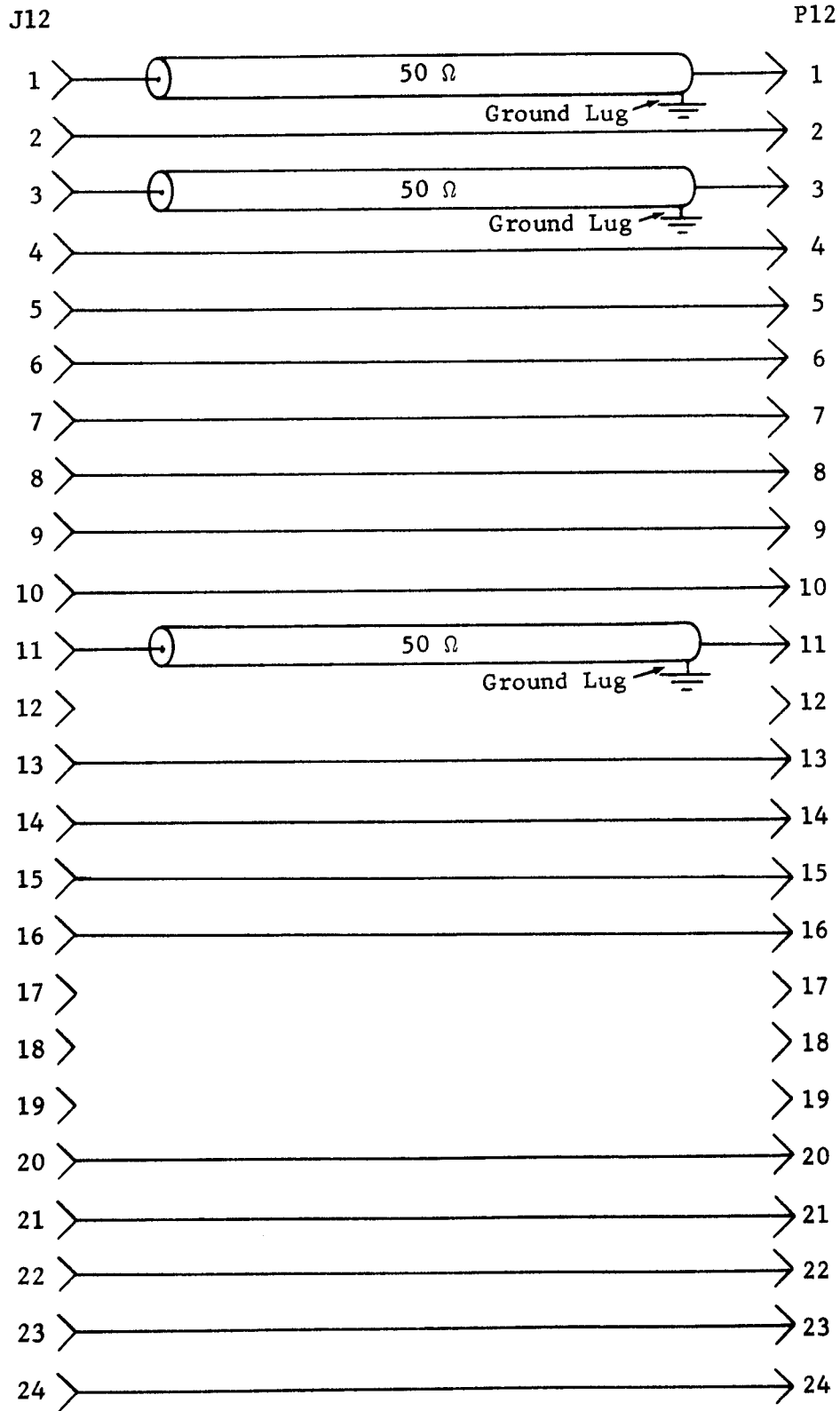
SAMPLING HEAD CONNECTORS

Unmarked wires, #22

PROGRAMMING CONNECTORS

J14   J14

1 ——————————————————————————————————— 1
A ——————————————————————————————————— A
2 ——————————————————————————————————— 2
B ——————————————————————————————————— B
3 ——————————————————————————————————— 3
C ——————————————————————————————————— C
4 ——————————————————————————————————— 4
D ——————————————————————————————————— D
5 ——————————————————————————————————— 5
E ——————————————————————————————————— E
6 ——————————————————————————————————— 6
F ——————————————————————————————————— F
7 ——————————————————————————————————— 7
H ——————————————————————————————————— H
8 ——————————————————————————————————— 8
J ——————————————————————————————————— J
9 ——————————————————————————————————— 9
K ——————————————————————————————————— K
10 —————————————————————————————————— 10
L ——————————————————————————————————— L
11 —————————————————————————————————— 11
M ——————————————————————————————————— M
12 —————————————————————————————————— 12
N ——————————————————————————————————— N
13 —————————————————————————————————— 13
P ——————————————————————————————————— P
14 —————————————————————————————————— 14
R ——————————————————————————————————— R
15 —————————————————————————————————— 15
S ——————————————————————————————————— S

All wires #22

A
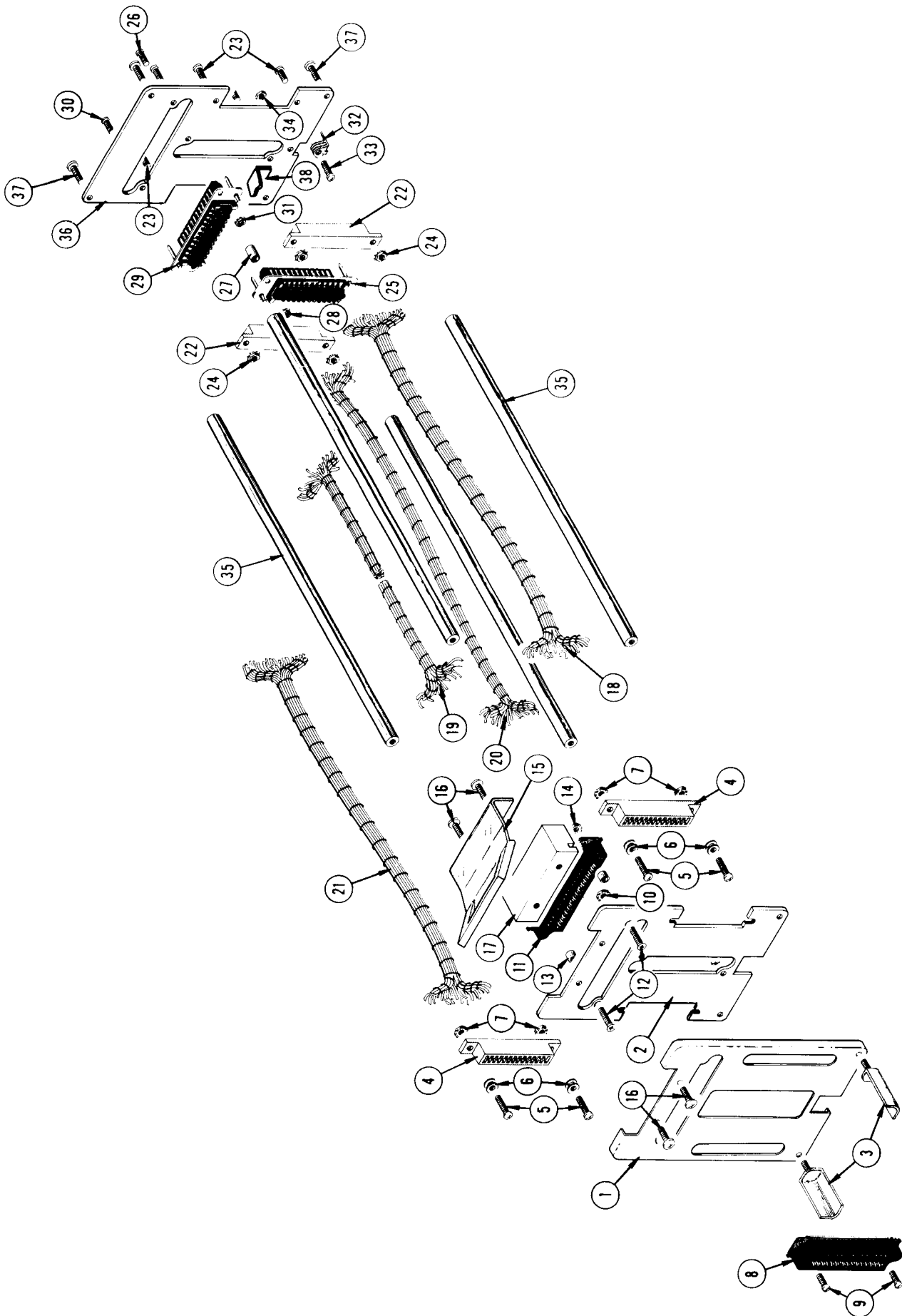
EXPLODED VIEW

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Qty	1 2 3 4 5	Description
1	333-1192-01			1		PANEL, front
2	386-1537-00			1		SUBPANEL, front
3	351-0192-00			2		GUIDE, plug-in
4	131-0327-00			2		CONNECTOR, 30 pin contact, female
	- - - - - -			-		mounting hardware for each: (not included
	- - - - - -			-		w/connector)
5	211-0016-00			2		SCREW, 4-40 x 0.625 inch, RHS
6	361-0133-00			2		SPACER, sleeve, spool shaped
7	210-0586-00			2		NUT, keps, 4-40 x 0.25 inch
8	131-0148-00			1		CONNECTOR, 24 contact, female
	- - - - - -			-		mounting hardware: (not included
	- - - - - -			-		w/connector)
9	211-0015-00			2		SCREW, 4-40 x 0.50 inch, RHS
10	210-0586-00			2		NUT, keps, 4-40 x 0.25 inch
11	131-0148-00			1		CONNECTOR, 24 contact, female
	- - - - - -			-		mounting hardware: (not included
	- - - - - -			-		w/connector)
12	211-0086-00			2		SCREW, 4-40 x 0.75 inch, 100° csk, FHS
13	166-0030-00			2		SPACER, 0.188 inch long
14	210-0586-00			2		NUT, keps, 4-40 x 0.25 inch
15	105-0114-00			1		LATCH, extender
	- - - - - -			-		mounting hardware: (not included w/latch)
16	212-0068-00			4		SCREW, 8-32 x 0.312 inch, THS
17	361-0251-00			1		SPACER, latch
18	179-1355-00			1		CABLE HARNESS, programing
19	179-1350-00			1		CABLE HARNESS, power
20	179-1351-00			1		CABLE HARNESS, digital
21	179-1352-00			1		CABLE HARNESS, sampling head
22	131-0327-00			2		CONNECTOR, 30 pin contact, female
	- - - - - -			-		mounting hardware for each: (not included
	- - - - - -			-		w/connector)
23	211-0014-00			2		SCREW, 4-40 x 0.50 inch, PHS
24	210-0586-00			2		NUT, keps, 4-40 x 0.25 inch

B

EXPLODED VIEW (cont)

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff	Disc	Qty	1 2 3 4 5	Description
25	131-0149-00			1		CONNECTOR, 24 contact, male
	- - - - - -			-		mounting hardware: (not included
	- - - - - -			-		w/connector)
26	211-0016-00			2		SCREW, 4-40 x 0.625 inch, RHS
27	166-0032-00			2		SPACER, 0.312 inch long
	210-0202-00			1		LUG, solder, SE #4 (not shown)
28	210-0586-00			2		NUT, keps, 4-40 x 0.25 inch
29	131-0149-00			1		CONNECTOR, 24 contact, male
	- - - - - -			-		mounting hardware: (not included
	- - - - - -			-		w/connector)
30	211-0110-00			2		SCREW, 4-40 x 0.312 inch, PHS
31	210-0586-00			2		NUT, keps, 4-40 x 0.25 inch
32	351-0037-00			1		GUIDE, plug-in
	- - - - - -			-		mounting hardware: (not included w/guide)
33	211-0012-00			1		SCREW, 4-40 x 0.375 inch, PHS
34	210-0406-00			1		NUT, hex., 4-40 x 0.188 inch
35	384-0615-00			4		ROD, spacing
36	386-1540-00			1		PANEL, rear
	- - - - - -			-		mounting hardware: (not included w/panel)
37	212-0004-00			4		SCREW, 8-32 x 0.312 inch, PHS
38	386-1614-00			1		SUPPORT, frame
	- - - - - -			-		mounting hardware: (not included w/support)
	212-0008-00			2		SCREW, 8-32 x 0.312
	210-0458-00			2		NUT, keps, 8-32 x 0.344 inch

STANDARD ACCESSORIES

	Tektronix Part No.			Qty		Description
	388-0805-00			2		CIRCUIT BOARD, connector (not shown)
	062-1051-00			1		MANUAL, instruction (not shown)

B