Schematic provided for test and maintenance purposes. The circuits are proprietary in nature and should be treated accordingly.

Resistors are 68 1/4W; 10%
Resistors R1, R2, R7, R8, R13, R14, R19, and R20 are 47 1/4W; 10%
Connectors are 18 pin AMPHENOL PLUGS 143-D18-04

TOTAL OF 20 CONNECTORS BUSSED TOGETHER

UNLESS OTHERWISE INDICATED:

Digital Equipment Corporation • Maynard, Massachusetts
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 10%
CAPACITORS ARE M MFD
D1005S ARE D-664
TRANSISTORS ARE DEC2894-1

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SHOULD BE TREATED ACCORDINGLY.

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RS-1103A-3

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE MFD
DIODES ARE D-001
TRANSISTORS ARE MAF

TRANSISTOR & DIODE CONVERSION CHART

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NOTES

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INVERTER 1103A
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE MFD
TRANSISTORS ARE DEC2894-1

DIODE EQUIVALENT CHART

TRANSISTOR & DIODE CONVERSION CHART

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE MFD
TRANSISTORS ARE DEC2894-1

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 10%
DIODES ARE D-662

TRANISTOR & DIODE CONVERSION CHART

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DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED
RESISTORS ARE 1/4 W 10%
CAPACITORS ARE MFD.
DIODES ARE IN276

BINARY TO OCTAL DECODER 1150(A,B,C)<RS-1150-5

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CIRCUITS ARE PROPRIETARY IN NATURE AND
SHOULD BE TREATED ACCORDINGLY.

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 2894-1
CAPACITORS ARE MMFD
RESISTORS ARE 1/4 W, 10%
DIODES ARE D-662
R19 IS A BOURNS POT

TRANSISTOR & DIODE CONVERSION CHART

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NOTES
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CIRCUITS ARE PROPRIETARY IN NATURE AND
SHOULD BE TREATED ACCORDINGLY.
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DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/2W, 10%
DE1 = TECHNITROL 0.2μsec DELAY LINE 330 OHMS
TAPPED AT 0.05μsec INTERVAL
DE2 = DE5 TECHNITROL 0.2μsec DELAY LINE

TRANISTOR & DIODE CONVERSION CHART

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DELAY LINE 1310

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, ±10%
DE 1 & DE 2 ARE TECHNITROL DELAY LINE
0.2 μsec 330 OHMS TAPPED AT 0.05 μsec

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 22,000; 7/4W; 10% 
DIODES ARE D-684 
TRANSISTORS ARE DEC 2884-1 
DE1 TO DE6 DEC NO. 330-25E-6 

TRANISTOR & DIODE CONVERSION CHART

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DELAY LINE 1316

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
CAPACITORS ARE MFD
DIODES ARE D-662

TRANISTOR & DIODE CONVERSION CHART

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CLOCK 1404

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%  
CAPACITORS ARE MMFD  
* DC 1/2A R N20X (ELECTRA) 1% RESISTORS

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MAGNETIC TAPE SENSE AMPLIFIER 1536

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
REGISTORS ARE 1/2W; 10%
CAPACITORS ARE MMFD
DIODES ARE D-001

TRANSISTOR & DIODE CONVERSION CHART

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SENSE AMP WITH PA. 1540

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DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
RS-B-1563-3

UNLESS OTHERWISE INDICATED:
FIXED RESISTORS ARE 1/10%; TEL-LABS 301
ALL POTS BOURNS TYPE 200 OR 271

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DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
FIXED RESISTORS ARE 1/10% TEL-LABS AMI
R1, R4, R7, & R19 ARE CTS MODEL 180
R13, R16, R19 & R22 ARE BOURNS TYPE 200

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DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED
RESISTORS ARE 1/10% TEL-LABS NJM
ALL POTS BOURNS TYPE 200 OR 271

2CD LADDER 1566 (A) RS-1566-1

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DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
FIXED RESISTORS ARE 1/2%; 1/2W
25 PPM ADC METALLIC FILM
ALL POTS ARE BOURNS TYPE 200
DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED
RESISTORS ARE ACI METAL FILM 0.5%, 1/2W
R10-R18 ±10 ppm/°C
R19-R22 ±50 ppm/°C
R23-R34 ±150 ppm/°C
POTENTIOMETERS: DAYTRON TYPE 510, ±5%, ±50 ppm/°C
R1: RESOLUTION OF 5.5%, MAX. END RESISTANCE OF 3kΩ
R2-R9: RESOLUTION OF 0.6%, MAX. END RESISTANCE OF 0.5kΩ

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 10%.
CAPACITORS ARE MMFD
DIODES ARE D-662

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED
RESISTORS ARE 1/2 W, 1% CARBON DEPOSITED
TRIMPOTS ARE BOURNS 200L-1-203
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
DIODES ARE D-662
CAPACITORS ARE MFD

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CIRCUITS ARE PROPRIETARY IN NATURE AND
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MULTIPLEXER SWITCH 15782

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE MMFD
DIODES ARE D-664
RS-B-1584

PARTS LIST

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NOTE:
1. R2 MAY BE REMOVED IF UNIT WILL NOT BALANCE WHEN TESTED.
2. LAYOUT MUST BE SYMMETRICAL ABOUT THIS AXIS.
3. PINS E & J ARE DIFFERENTIAL INPUTS, PIN Y IS PULSE OUTPUT.
4. R2 IS TO BE MOUNTED ON BIFURCATED TERMINALS TO ALLOW FOR BALANCE ADJUSTMENT DESCRIBED IN NOTE 1.

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
RS-B-1675-5

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE 4JX1C741
RESISTORS ARE 1/4 W, 10%
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/2 W, 10%
CAPACITORS ARE MMFD
Q1, Q2, Q4, Q5, Q7, Q8 ARE 2N1427
Q3, Q6, Q9 ARE 2N3301
D1, D3, AND D5 ARE TRANSISTOR IN764 9.1V ±10%

BUS DRIVER 1682 (A) RS-1682-3

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CIRCUITS ARE PROPRIETARY IN NATURE AND
SHOULD BE TREATED ACCORDINGLY.

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 10%
CAPACITORS ARE MFD
TRANSISTORS ARE DEC 2894-3

THIS SCHEMATIC IS FURNISHED ONLY FOR
TEST AND MAINTENANCE PURPOSES. THE
CIRCUITS ARE PROPRIETARY IN NATURE AND
SHOULD BE TREATED ACCORDINGLY.

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED RESISTORS ARE 1/4 WATT 10%
R1-R4 ARE DUNCO REED RELAY
TYPE M5514A 12V D.C. COIL
RESISTANCE, 1152 OHMS.

RELAY 1804 (A) RS-1804

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UNLESS OTHERWISE INDICATED:
RELAYS ARE WHEELOCK 262-2A-XI, 12VDC.

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 10% 
DIODES ARE D-003 
K1, K2, K3 & K4 ARE WHEELOCK 262-2A-XL12V DC

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RELAY 1807

DIGITAL EQUIPMENT CORPORATION . MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 47 OHMS 10%
CAPACITORS ARE 4700 MMFD 5%
UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W; 10%
CAPACITORS ARE MMFD

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
rs-1990-3

unless otherwise indicated:
resistors are 1/4w, 10%
capacitors are mmfd
all scr's are sw1250-3

taxistor & diode conversion chart

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notes:

this schematic is furnished only for test and maintenance purposes. the circuits are proprietary in nature and should be treated accordingly.

digital equipment corporation • maynard, massachusetts
UNLESS OTHERWISE INDICATED
RESISTORS ARE 1/8W, 5%
METAL FILM RESISTORS ARE 1/4W, ±1%
CAPACITORS ARE MILSPEC
TRANSISTORS ARE 2N3640
POTENTIOMETERS ARE MINELCO M75-30C-A
THE INPUT CONNECTOR IS AN AMPHENOL 51-223
THE OUTPUT CONNECTORS ARE US-653W/V
INDICATES OPAQUE PLANE CONNECTIONS,
VALUES FOR CAPACITORS C7 & C9 ARE
DETERMINED EXPERIMENTALLY AND WILL BE BETWEEN 0 AND 0.6 MMFD

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
RS-3101-5

INVERTER 3101 (B,C) RS-3101-5

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE MMFD

E2 - 5V
E1 - 15V
E3 GND
E4 +10V(A)
E5 +10V(B)

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS

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Unless otherwise indicated:
Resistors are 1/4W, 10%
Capacitors are MFD

Clock model 3401 (C,D,E) RS-3401-8

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE MFD.

PULSE AMPLIFIER 3602 (A)  RS-3602-5

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Digital Equipment Corporation • Maynard, Massachusetts
UNLESS OTHERWISE INDICATED
RESISTORS ARE 1/4W 10%
J1-J6 ARE G.E. 327
J1-J6 PATCH CONTROL JACKS

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INDICATOR PANEL 3669
UNLESS OTHERWISE INDICATED
RESISTORS ARE 1/4W, 10%
I1-I6 ARE G.E. 327
J1-J6 PATCH CONTROL JACKS

TRANISTOR & DIODE CONVERSION CHART

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NOTES

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INDICATOR PANEL 3669C

DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
UNLESS OTHERWISE INDICATED
RESISTORS ARE 1/4W 10%
CAPACITORS ARE MFD

TRANSISTOR & DIODE CONVERSION CHART

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NOTES

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY.

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
CAPACITORS ARE MMFD
DIODES ARE D-662
TRANSISTORS ARE DEC2894-1

TRANISTOR & DIODE CONVERSION CHART

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DIGITAL EQUIPMENT CORPORATION • MAYNARD, MASSACHUSETTS
RS-4118

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
DIODES ARE D-003

USE THE ETCHED BOARD OF THE 6118

TRANISTOR & DIODE CONVERSION CHART

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NOTES

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A, B RS-4118

DIODE GATE 4118

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Unless otherwise indicated:
Resistors are 1/4W, 10%.
Diodes are D-662.
Transistors are DEC 2894-4.

Transistor & Diode Conversion Chart

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Notes:

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
CAPACITORS ARE MMFD
DIODES ARE D-664

TRANISTOR & DIODE CONVERSION CHART

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NOTES
* 2 (TWO) IN3606 IN SERIES

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