ORDER OF MANUFACTURING

1.	POWER WIRING	A-550-0-4
2.	GROUNDS	A-550-0-9
3.	COMPONENTS LIST	A-550-0-11
4.	LOGIC WIRING	A-550-0-2
5.	TERMINATOR LIST	A-550-0-6
6.	CABLE LIST	A-550-0-3

DRAWN P.J.Priest 1-30-64

CHECKED R.Sheault 3/27/64

ENG L.C.Stockbridge

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

APP'V

ECO. NO. A-2133

REV. LTR.

TITLE INDEX WIRING LIST

FOR DECS TAPE CONTROL 550

DWG NO A-550-0-1

REV. LTR. A

SHEET OF

CODE WL

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

MASTER DRAWING LIST

CODE	DWG NO.	REV. LET.	NO. OF SHEETS	TITLE
				PRODUCTION DWG'S (MECH)
FPL	C-550-0-1	B	1	DEC - TAPE CONTROL 550
PL	A-550-0-1	B	2	DEC - TAPE CONTROL 550 PARTS LIST
MA	E-10800	B	1	1914 MTG PANEL
PL	A-10800	B	2	1914 MTG PANEL PARTS LIST
MD	C-01493	D	1	5 1/4 PLUG PANEL REWORKED
MD	C-01492	C	1	COVER PLATE
				PRODUCTION DWG'S ELEC
MPL	A-550-0-5	E	1	MODULE PROCUREMENT LIST
ML	A-550-0-10	E	1	MODULE LOCATION-MODULE JUMPERING
S	A-550-0-7	C	1	SPECIAL WIRING INSTRUCTION
MA	A-550-0-8	D	1	PANEL LAYOUT ASS'Y.
CD	D-550-0-CD	B	1	DEC - TAPE 550 CONTROL INTERCONNECTING
~~CD~~	~~CB 550 0 16~~		~~1~~	~~HEAD A CABLE~~
~~CD~~	~~CB 550 0 17~~		~~1~~	~~SELECTION C CABLE~~
~~CD~~	~~CB 550 0 18~~		~~1~~	~~SELECTION P CABLE~~
~~CD~~	~~CB 550 0 19~~		~~1~~	~~HEAD B CABLE~~
PW	D-550-0-PW	B	1	POWER WIRING & INDICATOR LITE WIRING
~~CD~~	~~B-550-0-CD~~		~~1~~	~~INTERCONNECTING CABLES~~
PL	A-550-0-CD	A	1	DEC TAPE 550 CONTROL INTERCONNECTING CABLES
				CHECKOUT & SERVICE DWG'S
BD	D-550-0-BD	C	1	BLOCK DIAGRAM-550 CONTROL
BS	D-550-0-C1	F	1	C1 CONTROL PRINT #1
BS	D-550-0-C2	F	1	C2 FLAG RESPONSE DATA CONTROL OUTPUTS
BS	D-550-0-TM	E	1	CONTROL PULSES
BS	D-550-0-W	G	1	W MARK TRACK & DECODING ERRORS
BS	E-550-0-1N	E		1N INFORMATION HANDLING
UML	D-550-0-UML	F	1	UTILIZATION MODULE LIST
TD	D-550-0-TD	C	1	TIMING DIAGRAM

REV.	ECO	ENG	DATE
B	185	L.B.P.	2/19/64
C	RETYPED	D.G.V.	5/1/64
D	2054	D.G.V	6/18/64
E	251	[illegible]	6/29/64
F	2123	[illegible]	8/25/64
H	281	[illegible]	
J	2133	[illegible]	9/17/64

MADE BY 2/3/64 J. Lemoine, P.J. Priest
CHECKER 2/19/64 D. Healy, N. Rheault
ENG 2/19/64 L. Stockebrand

TITLE DEC TAPE CONTROL 550

FOR

NOV 4 1964

SHEET 1 OF 2 | CODE MDL | DWG. NO. A-550-0-1 | REV J

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

MASTER DRAWING LIST

CODE	DWG NO.	REV. LET.	NO. OF SHEETS	TITLE
CP	A-550-013	A	34	CHECKOUT PROCEDURE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
				USER DOCUMENTS
	PUBLICATIONS			DEC TAPE PAPER - L. HANTMAN
	LIBRARY			DEC TAPE PROGRAM - 4, - 1
	PUBLICATIONS			DEC TAPE SERVICE MANUAL
MN	A-550-0-12	A	1	SPARE PARTS LIST
WL	A-550-0-1	A	1	INDEX WIRING SHEET
CL	A-550-0-3	D	9	IOT CONTROL
PW	A-550-0-4	D	1	POWER WIRING
TL	A-550-0-6	D	3	TERMINATOR LIST
WS	A-550-0-9	D	4	GROUNDS
CD	A-550-0-11	D	3	COMPONENTS LIST
BWC	D-550-0-15	A	1	DECTAPE 550 INSTALLATION (PDP-4)
CL	A-550-01-00-04-00	B	1	TO INFO. PLUGS 550 CONTROL
CL	A-550-01-00-05-00	B	1	TO CONTROL PLUGS 550 CONTROL
WL	A-550-01-00-05-00	B	1	WIRING IN REAL TIME SECTION

REV.	ECO	ENG	DATE
B	[illegible]	L.S.P.	[illegible]
C	[illegible]		[illegible]

MADE BY 2/3/64
J. Lemoine
P. J. Priest

CHECKER 2/19/64
D. Healy
N. Rheault

ENG 2/19/64
L. Stockebrand

TITLE
DECTAPE CONTROL 550

FOR [illegible]

NOV 4 1964

SHEET 2 OF 2

CODE MDL

DWG. NO. A-550-0-1

REV. LET. E

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

MASTER DRAWING LIST

CODE	DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE
				PRODUCTION DWG'S (MECH)
FPL	C-550-0-1	B	1	DEC - TAPE CONTROL 550
PL	A-550-0-1	B	2	DEC - TAPE CONTROL 550 PARTS LIST
MA	E-10800	B	1	1914 MTG PANEL
PL	A-10800	B	2	1914 MTG. PANEL PARTS LIST
MD	C-01493	D	1	5 1/4 PLUG PANEL REWORKED
MD	C-01492	C	1	COVER PLATE
				PRODUCTION DWG'S ELEC
MPL	A-550-0-5	E	1	MODULE PROCUREMENT LIST
ML	A-550-0-10	E	1	MODULE LOCATION-MODULE JUMPERING
S	A-550-0-7	C	1	SPECIAL WIRING INSTRUCTION
MA	A-550-0-8	D	1	PANEL LAYOUT ASS'Y.
WL	B-550-0-16			WIRE LIST TYPE 550 DT
CD	D-550-0-CD	B	1	DEC - TAPE 550 CONTROL INTERCONNECTING
PW	D-550-0-PW	B	1	POWER WIRING & INDICATOR LITE WIRING
PL	A-550-0-CD	A	1	DEC TAPE 550 CONTROL INTERCONNECTING CABLES
				CHECKOUT & SERVICE DWG'S
BD	D-550-0-BD	C	1	BLOCK DIAGRAM 550 CONTROL
BS	D-550-0-C1	H	1	C1 CONTROL PRINT #1
BS	D-550-0-C2	H	1	C2 FLAG RESPONSE DATA CONTROL OUTPUTS
BS	D-550-0-TM	F	1	CONTROL PULSES
BS	D-550-0-W	H	1	W MARK TRACK & DECODING ERRORS
BS	E-550-0-1N	F		1N INFORMATION HANDLING
UML	D-550-0-UML	H	1	UTILIZATION MODULE LIST
TD	D-550-0-TD	C	1	TIMING DIAGRAM

ISSUED
JAN 18 1965

REV.	ECO	ENG	DATE
B	185	L.B.P.	2/19/64
C	RETYPED	D.G.V.	5/1/64
D	2054	D.G.V.	6/18/64
E	251	D.G.V.	6/29/64
F	2123	J.E.S.	8/25/64
H	281	J.E.S.	
J	2133	E.H.	9/17/64
K	323	DSV	12/29/64

MADE BY 2/3/64 J. Lemoine, E. Massarelli
CHECKER 2/19/64 D. Healy, N. Rheault
ENG 2/19/64 T. Stockebrand

TITLE: DEC TAPE CONTROL 550

FOR

SHEET 1 OF 2 | CODE MDL | DWG. NO. A-550-0-1 | REV. LET. K

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

MASTER DRAWING LIST

CODE	DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE
CP	A-550-0-13	A	34	CHECKOUT PROCEDURE
BWC	D-550-0-15	A	1	DECTAPE 550 INSTALLATION (PDP-4)
BWC	D-20090		1	DECTAPE 550 INSTALLATION (PDP-1)
	PUBLICATIONS			DECTAPE SERVICE MANUAL
				USER DOCUMENTS
	PUBLICATIONS			DEC TAPE PAPER L. HANTMAN
	LIBRARY			DEC TAPE PROGRAM-4, - 1
	PUBLICATIONS			DEC TAPE SERVICE MANUAL
MN	A-550-0-12	A	1	SPARE PARTS LIST

REV.	ECO	ENG	DATE

MADE BY 2/3/64
J. Lemoine
E. Massarelli

CHECKER 2/19/64
D. Healy
N. Rheault

ENG 2/19/64
T. Stockebrand

TITLE
DEC TAPE CONTROL 550

FOR

SHEET 2 OF 2

CODE MDL

DWG. NO. A-550-0-1

REV. LET. K

TITLE (1–22)	A (23)	P (24)	RUN PIN (25–36)	ORDER (37–38)	COLOR VALUE (39–41)	WIRE COMP (42–44)	DWG LOCATION (45–53)	CONT. KEY (54–55)	S (56)	REMARKS (57–75)	PAGE (76–78)	LINE (79–80)
D1								TP		50 PIN AMPHENOL	1	1
DF + EF			D1-2			TWP				GRY/BLK	"	2
"			A1M ROW 3			"				"	"	3
++MMRD			D1-4			"				"	"	4
"			A1F ROW 3			"				"	"	5
++MMWR			D1-6			"				"	"	6
"			A1E ROW 3			"				"	"	7
						"				"	"	8
											"	9
LC + SE			D1-10			"				"	"	10
"			A1K ROW 3			"				"	"	11
MMDF			D1-12			"				"	"	12
"			A1N ROW 3			"				"	"	13
MMEF			D1-14			"				"	"	14
"			A1L ROW 3			"				"	"	15
POWER CLEAR			D1-16			"				"	"	16
"			A1R ROW 3			"				"	"	17
RUN			D1-19			"				"	"	18
"			A1S ROW 3			"				"	"	19
-1/4 MMSE			D1-21			"				"	"	20
A1 "			A1G ROW 3			"				REAR OF BLK	"	21
1/4 MMLC			D1-23			"				"	"	22
"			A1P ROW 3			"				REAR OF BLK	"	23
+MB			D1-25			"				"	"	24
"			A1F ROW 1			"				"	"	25

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST & MAINTANANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE & SHOULD BE TREATED ACCORDINGLY.
NOV 4 1964

DRAFTSMAN E. [illegible] 1/23/64

CHECKED [illegible] 1/23/64

ENGINEER [illegible] 1/24/64

WIRING SEQUENCE

CABLE LIST

TITLE 10T CONTROL
DECC TAPE 550 CONTROL

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-3

REV. LTR. D

C-201 ECP

SHEET 1 of 9

TITLE (22)	A (23)	P (24)	RUN·PIN (25–36)	ORDER (37–38)	COLOR VALUE (39–41)	WIRE COMP (42–44)	DWG LOCATION (45–53)	CONT. KEY (54–55)	S (56)	REMARKS (57–75)	PAGE (76–78)	LINE (79–80)
DATA FLG ++			D1-26			TWP				GRY/BLK	2	1
"			A1T ROW 1			"				"	"	2
BLK FLG ++			D1-27			"				"	"	3
"			A1S ROW 1			"				"	"	4
ERROR FLG ++			D1-28			"				"	"	5
"			A1R ROW 1			"				"	"	6
OFFEND ++			D1-29			"				"	"	7
"			A1M ROW 1			"				"	"	8
MISS ++			D1-30			"				"	"	9
"			A1N ROW 1			"				"	"	10
REV ++			D1-31			"				"	"	11
"			A1K ROW 1			"				"	"	12
GO ++			D1-32			"				"	"	13
"			A1J ROW 1			"				"	"	14
MKTKER			D1-33			"				"	"	15
"			A1L ROW 1			"				"	"	16
UNABLE			D1-34			"				"	"	17
"			A1H ROW 1			"				"	"	18
						"				"	"	19
						"				"	"	20
						"				"	"	21
						"				"	"	22
						"				"	"	23
PWR CONTROL			D1-49			"				"	"	24
"			B-132			"				RED	"	25
GND			D1-50			"				GRY/BLK	"	

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST & MAINTAINANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE & SHOULD BE TREATED ACCORDINGLY.
NOV 4 1964

DRAFTSMAN E. Mascarelli 1/23/64	WIRING SEQUENCE	TITLE IOT CONTROL DEC TAPE 550 CONTROL
CHECKED N. Rheault 1/23/64	CABLE LIST	ECO# IS D-2133 WAS C-201 / DWG NO. A-550-0-3 / REV. LTR. D
ENGINEER [illegible]		

TITLE	A	P	RUN PIN	ORDER	COLOR / VALUE	WIRE / COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE	LINE
D2 JACK FEMALE										50 PIN AMPHENOL	3	1
BIT 15	1	-	D2-16		WHT						"	2
"	1	-	C1A ROW 1		"						"	3
BIT 12	1	-	D2-13		"						"	4
"	1	-	C1B ROW 1		"						"	5
BIT 9	1	-	D2-10		"						"	6
"	1	-	C1C ROW 1		"						"	7
BIT 6	1	-	D2-7		"						"	8
"	1	-	C1D ROW 1		"						"	9
BIT 3	1	-	D2-4		"						"	10
"	1	-	C1E ROW 1		"						"	11
BIT 0	1	-	D2-1		"						"	12
"	1	-	C1F ROW 1		"						"	13
BIT 16	1	-	D2-17		"						"	14
"	1	-	C1G ROW 1		"						"	15
BIT 13	1	-	D2-14		"						"	16
"	1	-	C1H ROW 1		"						"	17
BIT 10	1	-	D2-11		"						"	18
"	1	-	C1J ROW 1		"						"	19
BIT 7	1	-	D2-8		"						"	20
"	1	-	C1K ROW 1		"						"	21
BIT 4	1	-	D2-5		"						"	22
"	1	-	C1L ROW 1		"						"	23
BIT 1	1	-	D2-2		"						"	24
"	1	-	C1M ROW 1		"						"	25

DRAFTSMAN E Mansfield 1/23/64

CHECKED R Peacock 1/23/64

ENGINEER JRL

WIRING SEQUENCE

CABLE LIST

TITLE INFO PLUG TO TAPER PINS
IOT INFORMATION HANDLING
DEC TAPE 550 CONTROL

ECO# IS D-2133
WAS C-201

DWG NO. A-550-0-3

REV. LTR. D

1 22 TITLE	23 A	24 P	25 36 RUN PIN	37 38 ORDER	39 41 COLOR / VALUE	42 44 WIRE / COMP	45 53 DWG LOCATION	54 55 CONT. KEY	56 S	57 75 REMARKS	76 78 PAGE	79 80 LINE
BIT 17	1	-	D2-18		WHT						4	1
"	1	-	C1N ROW 1		"						"	2
BIT 14	1	-	D2-15		"						"	3
"	1	-	C1P ROW 1		"						"	4
BIT 11	1	-	D2-12		"						"	5
"	1	-	C1R ROW 1		"						"	6
BIT 8	1	-	D2-9		"						"	7
"	1	-	C1S ROW 1		"						"	8
BIT 5	1	-	D2-6		"						"	9
"	1	-	C1T ROW 1		"						"	10
BIT 2	1	-	D2-3		"						"	11
"	1	-	C1U ROW 1		"						"	12
MMIOB 15	1	+	D2-34		YEL					PIN HAS 2 WIRES	"	13
"	1	+	C1A ROW 3		"						"	14
MMIOB 12	1	+	D2-31		"						"	15
"	1	+	C1B ROW 3		"					2 WIRES	"	16
MMIOB 9	1	+	D2-28		"						"	17
"	1	+	C1C ROW 3		"						"	18
MMIOB 6	1	+	D2-25		"						"	19
"	1	+	C1D ROW 3		"						"	20
MMIOB 3	1	+	D2-22		"					2 WIRES	"	21
"	1	+	C1E ROW 3		"						"	22
MMIOB 0	1	+	D2-19		"						"	23
"	1	+	C1F ROW 3		"						"	24
MMIOB 16	1	+	D2-35		"					2 WIRES	"	25

DRAFTSMAN E Manarelli 11/23/64

CHECKED R. Rhodes 11/23/64

ENGINEER 202

WIRING SEQUENCE

CABLE LIST

TITLE INFO PLUG TO TAPER PINS
10T INFORMATION HANDLING
DECC TAPE 550 CONTROL

ECO# IS D-2133
WAS C-201

DWG NO. A-550-0-3

REV. LTR. D

TITLE (1–22)	A. (23)	P. (24)	RUN PIN (25–36)	ORDER (37–38)	COLOR VALUE (39–41)	WIRE COMP (42–44)	DWG LOCATION (45–53)	CONT. KEY (54–55)	S (56)	REMARKS (57–75)	PAGE (76–78)	LINE (79–80)
MMIOB 16	1	+	C1G ROW 3		YEL							
MMIOB 13	1	+	D2-32		"						5	1
"	1	+	C1H ROW 3		"					2 WIRES	"	2
MMIOB 10	1	+	D2-29		"						"	3
"	1	+	C1J ROW 3		"						"	4
MMIOB 7	1	+	D2-26		"						"	5
"	1	+	C1K ROW 3		"						"	6
MMIOB 4	1	+	D2-23		"						"	7
"	1	+	C1L ROW 3		"					2 WIRES	"	8
MMIOB 1	1	+	D2-20		"						"	9
"	1	+	C1M ROW 3		"						"	10
MMIOB 17	1	+	D2-36		"						"	11
"	1	+	C1N ROW 3		"					2 WIRES	"	12
MMIOB 14	1	+	D2-33		"						"	13
"	1	+	C1P ROW 3		"						"	14
MMIOB 11	1	+	D2-30		"						"	15
"	1	+	C1R ROW 3		"						"	16
MMIOB 8	1	+	D2-27		"						"	17
"	1	+	C1S ROW 3		"						"	18
MMIOB 5	1	+	D2-24		"						"	19
"	1	+	C1T ROW 3		"					2 WIRES	"	20
MMIOB 2	1	+	D2-21		"						"	21
"	1	+	C1U ROW 3		"					2 WIRES	"	22
(4) MMB12 (1 written above the 2)	1	+	D2-[illegible]		"						"	23
"	1	+	A1H ROW 3		"						"	24
											"	25

DRAFTSMAN [illegible] 1/23/64

CHECKED [illegible] 1/23/64

ENGINEER [illegible]

WIRING SEQUENCE

CABLE LIST

TITLE: INFO PLUG TO TAPER PINS
10T INFORMATION HANDLING
DEC TAPE 550 CONTROL

ECO#
IS D-2133
WAS C-201

DWG NO. A-550-0-3

REV. LTR. D

1 22 TITLE	23 A	24 P	25 36 RUN PIN	37 38 ORDER	39 41 COLOR / VALUE	42 44 WIRE / COMP	45 53 DWG LOCATION	54 55 CONT. KEY	56 S	57 75 REMARKS	76 78 PAGE	79 80 LINE
(4) MMB12[0]	1	+	D2-38		YEL						6	1
"	1	+	A1J ROW 3		"						"	2
GO			D2-31		"						"	3
"			A1U ROW 3		"						"	4
REV			D-32		"						"	5
"			A1T ROW 3		"						"	6
MODE 1			D2-34		"						"	7
"			A1V ROW 1		"						"	8
MODE 2			D2-35		"						"	9
"			A1U ROW 1		"						"	10
MODE 3			D2-36		"						"	11
"			A1V ROW 3		"						"	12
UNIT SEL 4	1	+	D2-21		"						"	13
"			A1D ROW 3		"						"	14
UNIT SEL 3			D2-22		"						"	15
"			A1C ROW 3		"						"	16
UNIT SEL 2			D2-23		"						"	17
"			A1B ROW 3		"						"	18
UNIT SEL 1	1	+	D2-24		"						"	19
"			A1A ROW 3								"	20
GND			D2-50		BLK						"	21
"			GND		"						"	22
WRTMR RETURN			B3B		RED						"	23
"			B4B		"						"	24
"			A5T ROW 3		"						"	25

DRAFTSMAN E. Mussetti 1/23/64

CHECKED R. Rheault 1/23/64

ENGINEER T.C.

WIRING SEQUENCE

CABLE LIST

TITLE INFO PLUG TO TAPER PINS
IOT INFORMATION HANDLING
DEC TAPE 550 CONTROL
SELECTION PLUG FROM T.P. BLK.

ECO# IS D-2133
WAS C-201

DWG NO. A-550-0-3

REV. LTR. D

1 22 TITLE	23 A	24 P	25 36 RUN PIN	37 38 ORDER	39 41 COLOR / VALUE	42 44 WIRE / COMP	45 53 DWG LOCATION	54 55 CONT. KEY	56 S	57 75 REMARKS	76 78 PAGE	79 8 LINE
(-15)			B3C		RED					FROM PWR WIRING	7	1
"			B4C		"						"	2
"			A5P ROW 3		"						"	3
GND			B3D		BLK						"	4
"			B4D		"						"	5
"			A5R ROW 3		"						"	6
GO			B3E		WHT						"	7
"			B4E		"						"	8
"			A5S ROW 3		"						"	9
FWD			B3F		"						"	10
"			B4F		"						"	11
"			A5M ROW 3		"						"	12
REV			B3H		"						"	13
"			B4H		"						"	14
"			A5N ROW 3		"						"	15
WR/LOCK			B3J		"						"	16
"			B4J		"						"	17
"			A5U ROW 3		"						"	18
STOP			B3K		"						"	19
"			B4K		"						"	20
"			A5A ROW 3		"						"	21
WRTM LITE			B3L		"						"	22
" "			B4L		"						"	23
" "			A5V ROW 3		"						"	24
UNIT 9			B3N		"						"	25

DRAFTSMAN E Massarelli 1/23/64

CHECKED T. Rhoads 1/23/64

ENGINEER JDL

WIRING SEQUENCE

CABLE LIST

TITLE
SELECTION PLUG FROM T. P. BLK.
DEC TAPE 550 CONTROL

ECO#
IS D-2133
WAS C-201

DWG NO. A-550-0-3

REV. LTR. D

1 22	23	24	25 36	37 38	39 41	42 44	45 53	54 55	56	57 75	76 78	79 80
TITLE	A	P	RUN PIN	ORDER	COLOR / VALUE	WIRE / COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE	LINE
UNIT 9			B4N		WHT						8	1
"			A5L ROW 3		"						"	2
UNIT 8			B3P		"						"	3
"			B4P		"						"	4
"			A5K ROW 3		"						"	5
UNIT 7			B3R		"						"	6
"			B4R		"						"	7
"			A5J ROW 3		"						"	8
UNIT 6			B3S		"						"	9
"			B4S		"						"	10
"			A5H ROW 3		"						"	11
UNIT 5			B3T		"						"	12
"			B4T		"						"	13
"			A5G ROW 3		"						"	14
UNIT 4			B3U		"						"	15
"			B4U		"						"	16
"			A5F ROW 3		"						"	17
UNIT 3			B3V		"						"	18
"			B4V		"						"	19
"			A5E ROW 3		"						"	20
UNIT 2			B3W		"						"	21
"			B4W		"						"	22
"			A5D ROW 3		"						"	23
UNIT 1			B3X		"						"	24
"			B4X		"						"	25

DRAFTSMAN E Massarelli 1/23/64

CHECKED R. Brault 1/23/64

ENGINEER

WIRING SEQUENCE

CABLE LIST

TITLE SELECTION PLUG FROM T. P. BLK.
DEC TAPE 550 CONTROL

ECO#
IS D-2133
WAS C-201

DWG NO. A-550-0-3

REV. LTR. D

1 22	23	24	25 36	37 38	39 41	42 44	45 53	54 55	56	57 75	76 78	79 80
TITLE	A	P	RUN PIN	ORDER	COLOR / VALUE	WIRE / COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE	LINE
											9	1
UNIT 1			A5C ROW 3		WHT							2
HALT			A5B ROW 3		"							3
			B3M		"							4
			B4M		"							5
												6
												7
												8
												9
												10
												11
												12
												13
												14
												15
												16
												17
												18
												19
												20
												21
												22
												23
												24
												25

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NOV 4 1964

DRAFTSMAN E Mascarelli 1/23/64

CHECKED R. Rheault 1/23/64

ENGINEER

WIRING SEQUENCE

CABLE LIST

TITLE SELECTION PLUG FROM T. P. BLK.
DEC TAPE 550 CONTROL

ECO# IS D-2133
WAS C-201

DWG NO. A-550-0-3

REV. LTR. D

1 22 TITLE	23 A	24 P	25 36 RUN PIN	37 38 ORDER	39 41 COLOR / VALUE	42 44 WIRE / COMP	45 53 DWG LOCATION	54 55 CONT. KEY	56 S	57 75 REMARKS	76 78 PAGE	79 80 LINE
+10V			C21B		BLU			TP		NO CONN TO C20B	1	1
"			C22B		"						"	2
"			C23B		"						"	3
"			[illegible]		"						"	4
-15V			C21C		RED					NO CONN TO C20C	"	5
"			C22C		"						"	6
"			C23C		"						"	7
[illegible]			[illegible]		"						"	8
POWER CONTROL -15V			11		"						"	9
"			C118		"					STANDOFF	"	10
"			C18C		"						"	11
"			C19C		"						"	12
"			C20C		"						"	13
"			C24C		"						"	14
"			C25C								"	15
+10V A2B			A2B		"						"	16
			A82E		"						"	17
-15V A3C			A3C		"						"	18
			A82H		"						"	19
											"	20
											"	21
											"	22
											"	23
											"	24
											"	25

DRAFTSMAN C Margrelli 1/23/64

CHECKED [illegible] 1/23/64

ENGINEER [illegible] 1/24/64

WIRING SEQUENCE

POWER WIRING

TITLE DECO TAPE 550 CONTROL

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-4

REV. LTR. D

MODULE NO.	NO. REQUIRED
4606	9
4671 "D" MODEL OR LATER	1
4218	1
4102	4
4151"H" MODEL OR LATER	1
4303	3
4680	2
4105	1
4113	1
1011	5
4127	6
4214	3
4129	1
1 /-	1
4604	1
4115	2
4116	1
4114	1
4117	2
113	1
4221	1
4261	1
4260	1
4228	6
4301	2
4410	2
4202	1
4401	1
4523	5
1802	1
1105	1
6102	2
1501	1

DRAWN E. McHugh 12/13/63

CHECKED R. Krault 1/23/64

ENG J. Hastings 1/24/64

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

MOD

TITLE MODULE PROCUREMENT LIST

FOR: DEC TAPE CONTROL 550

APP'V	ECO NO.	REV. LTR.
	2133	
	D-251	
	C-201	
	B-185	

NOV 4 1964

DWG NO A-550-0-5

REV. LTR. E

SHEET 1 OF 1

CODE MPL

TITLE	A	P	RUN PIN	ORDER	COLOR / VALUE	WIRE / COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE
8 TERMINATOR			A4S		47 Ω	RES					1
"			GND			"					"
9 TERMINATOR			C7Y		47 Ω	"					"
"			GND			"					"
10 TERMINATOR			A19R		22 Ω	"					"
"			GND			"					"
11 TERMINATOR			B9E		47 Ω	"					"
"			GND			"					"
12 TERMINATOR			B11S		22 Ω	"					"
"			GND			"					"
13 TERMINATOR			B11Y		15 Ω	"					"
"			GND			"					"
14 TERMINATOR			B6S		47 Ω	"					"
"			GND			"					"
15 TERMINATOR			B9J		22 Ω	"					"
"			GND			"					"
16 TERMINATOR			B9M		22 Ω	"					"
"			GND			"					"
17 TERMINATOR			A24R		47 Ω	"					"
"			GND			"					"
18 TERMINATOR			B9X		47 Ω	"					"
"			GND			"					"
19 TERMINATOR			B9U		47 Ω	"					"
"			GND			"					"
						"					"

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DRAFTSMAN E Massarelli 1/23/64

CHECKED N. O'Neill 1/23/64

ENGINEER I V Stoltz 1/24/64

WIRING SEQUENCE

TERMINATOR LIST

TITLE DEC TAPE 550 CONTROL

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-6

REV. LTR. D

[redacted] 201202

1 22 TITLE	23 A	24 P	25 36 RUN PIN	37 38 ORDER	39 41 COLOR / VALUE	42 44 WIRE / COMP	45 53 DWG LOCATION	54 55 CONT. KEY	56 S	57 75 REMARKS	76 78 PAGE	79 80 LINE
TERM			A2M		47 Ω						2	1
"			GND								"	2
TERM			A2S		47 Ω	"					"	3
"			GND			"					"	4
TERM			A3K		39 Ω	"	1NB1				"	5
"			GND			"					"	6
TERM			A3P		47 Ω	"	1NB1				"	7
"			GND			"					"	8
TERM			A3U		47 Ω	"					"	9
"			GND			"					"	10
TERM			A4E		47 Ω	"					"	11
"			GND			"					"	12
TERM			A4M		47 Ω	"					"	13
"			GND			"					"	14
TERM.			A18F		15 Ω							15
			GND									16
TERM.			A7P		15 Ω							17
			GND									18
TERM.			A3S		39 Ω							19
			GND									20
TERM.			A4K		47 Ω							21
			GND									22
TERM.			B11T		15 Ω		TMB5					23
			GND									24
												25

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DRAFTSMAN E. Massarelli 11/23/64

CHECKED [illegible] 11/23/64

ENGINEER

WIRING SEQUENCE

TERMINATOR LIST

TITLE DEC TAPE 550 CONTROL

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-6

REV. LTR. D

1 22 TITLE	23 A	24 P	25 36 RUN PIN	37 38 ORDER	39 41 COLOR / VALUE	42 44 WIRE / COMP	45 53 DWG LOCATION	54 55 CONT. KEY	56 S	57 75 REMARKS	76 78 PAGE	79 80 LINE
CP SR			C3V		22 Ω		1NB2				3	1
"			GND									2
SHIFT SRL			C2U		22 Ω		1NB1					3
"			GND									4
SHIFT SR RT			C7Z		22 Ω		1NB7					5
"			GND									6
A6R			A6R		10 Ω							7
			A82R									8
A6S			A6S		10 Ω							9
			A82S									10
A6T			A6T		10 Ω							11
			A82T									12
A6U			A6U		10 Ω							13
			A82U									14
A6V			A6V		10 Ω							15
			A82V									16
A6W			A6W		10 Ω							17
			A82W									18
A6X			A6X		10 Ω							19
			A82X									20
A6Y			A6Y		10 Ω							21
			A82Y									22
A6Z			A6Z		10 Ω							23
			A82Z									24
												25

NOV 4 1964

DRAFTSMAN
Elaine Massarelli 2/19/64

CHECKED
H Rosenthal 2/19/64

ENGINEER

WIRING SEQUENCE

TERMINATOR LIST

TITLE
DEC TAPE 550 CONTROL

ECO#
IS D-2133
WAS C-201

DWG NO.
A-550-0-6

REV. LTR.
D

SPECIAL WIRING INSTRUCTIONS

1. Run regular -15V to C17C then jump it to C23A and Stop.

2. There is NO power wiring to pins B3A, B3B, B4A, B4B, and C21A, B, C, C22A, B, C, C23A, B, C. There is -15V wiring to B3C & B4C.

3. Run the +10AV to C20A then jump to C24A and C25A.

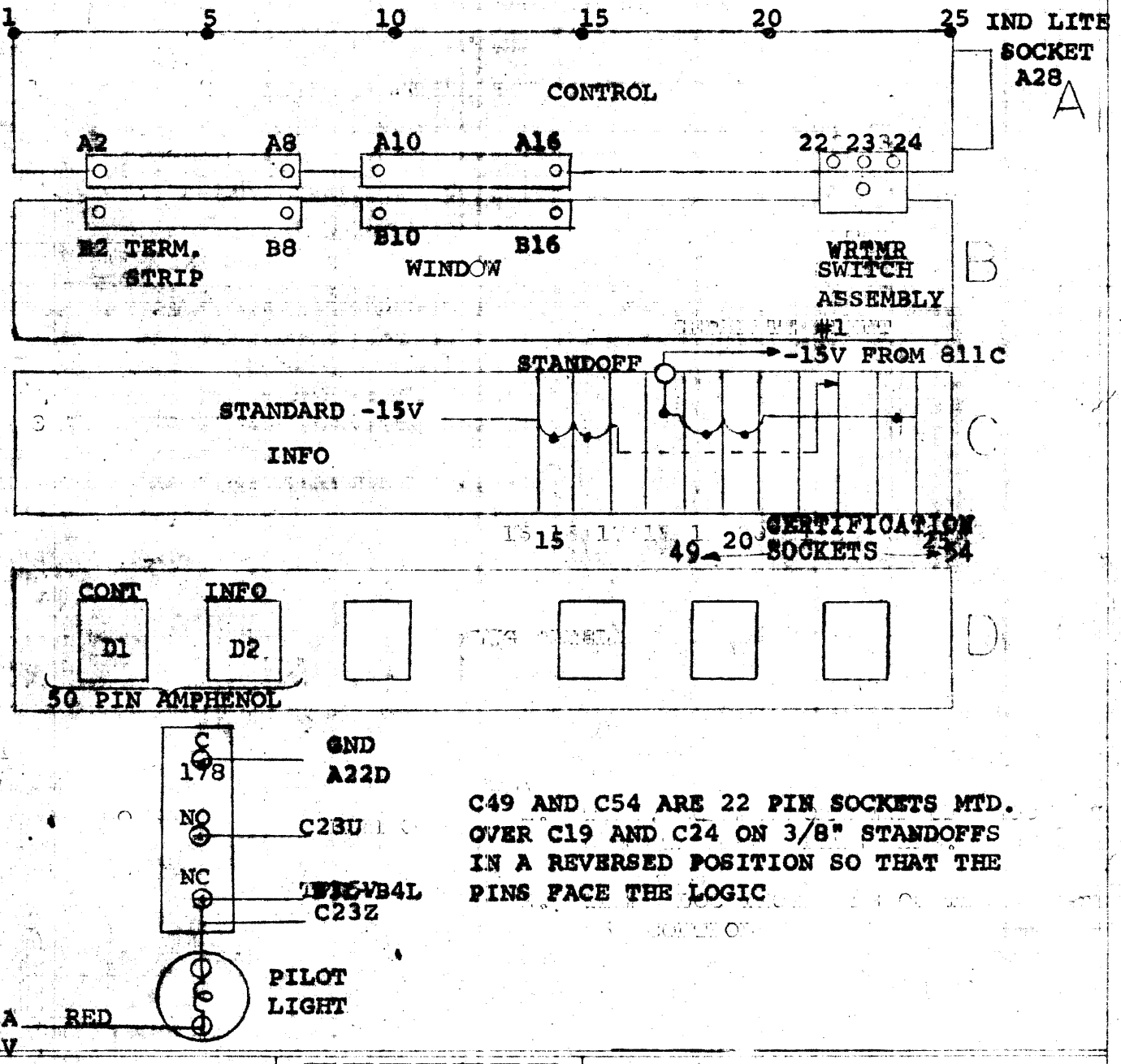
4. Run the +10BV to C20B then jump to C24B and C25B.

5. Do not Gnd. B3D or B4D..These have a special Gnd path.

DRAWN E. McHugh 12/13/63	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	MOD	
CHECKED N. Rheault 1/23/64		TITLE SPECIAL WIRING INSTRUCTIONS	
ENG J.P. Stead 1/24/64		FOR: DEC TAPE CONTROL 550	
		DWG NO A-550-0-7	REV. LTR. C
		SHEET 1 OF 1	CODE S

NOV 4 1964

ECO. NO.	REV. LTR.	APP'V
2133		
B 257		8/14
A-181		J.O.D.



C49 AND C54 ARE 22 PIN SOCKETS MTD. OVER C19 AND C24 ON 3/8" STANDOFFS IN A REVERSED POSITION SO THAT THE PINS FACE THE LOGIC

DRAWN B. Lumpkin 10-23-63

CHECKED H. Hamlett 1/23/64

ENG [illegible] 1/24/64

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

MOD

TITLE DEC TAPE 550 CONTROL

PANEL LAYOUT

NOV 4 1964

APP'V

ECO NO.

REV. LTR.

D-2133

DWG NO A-550-0-8

REV. LTR. D

SHEET 1 OF 1

CODE MA

1 22	23	24	25 36	37 38	39 41	42 44	45 53	54 55	56	57 75	76 78	79 80
TITLE	A	P	RUN PIN	ORDER	COLOR / VALUE	WIRE / COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE	LINE
A2D			A2D		BLK.					GND.	1	1
"			A2H		"					"	"	2
"			A2P		"					"	"	3
"			A2X		"					"	"	4
												5
A3D			A3D		"					"	"	6
"			A3J		"					"	"	7
"			A3R		"					"	"	8
"			A3W		"					"	"	9
												10
A4D			A4D		"					"	"	11
"			A4J		"					"	"	12
"			A4R		"					"	"	13
"			A4X		"					"	"	14
												15
A11D			A11D		"					"	"	16
"			A11T		"					"	"	17
												18
A12D			A12D		"					"	"	19
"			A12T		"					"	"	20
												21
A14D			A14D		"					"	"	22
"			A14F		"					"	"	23
"			A14J		"					"	"	24
"			A14M		"					GND	"	25

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DRAFTSMAN E. [illegible] 1/23/64	WIRING SEQUENCE	TITLE DEC TAPE 550 CONTROL
CHECKED R. Rheault 1/23/64	GND	ECO# IS D-2133 WAS C-201
ENGINEER J. C. Storhefren 1/24/64		DWG NO. A-550-0-9.
		REV. LTR. D

SHEET 1 of 4

TITLE	A	P	RUN PIN	ORDER	COLOR / VALUE	WIRE / COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE	LINE
A14D			A14X		BLK.					GND.	2	1
"			A14T		"					"	"	2
												3
A23D			A23D		"					"	"	4
"			A23R		"					"	"	5
"			A23X		"					"	"	6
												7
B6D			B6D		"					"	"	8
"			B6J		"					"	"	9
"			B6R		"					"	"	10
"			B6X		"					"	"	11
												12
B10D			B10D		"					"	"	13
"			B10J		"					"	"	14
"			B10R		"					"	"	15
"			B10W		"					"	"	16
												17
B11D			B11D		"					"	"	18
"			B11J		"					"	"	19
"			B11R		"					"	"	20
"			B11W		"					"	"	21
												22
B12D			B12D		"					"	"	23
"			B12J		"					"	"	24
"			B12S		"					"	"	25

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DRAFTSMAN E Massarelli 1/23/64

CHECKED R. Rheault 1/23/64

ENGINEER [redacted]

WIRING SEQUENCE: GND

TITLE: DEC TAPE 550 CONTROL — GNDS

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-9

REV. LTR. D

1 22	23	24	25 36	37 38	39 41	42 44	45 53	54 55	56	57 75	76 78	79 80
TITLE	A	P	RUN PIN	ORDER	COLOR / VALUE	WIRE / COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE	LINE
B12D			B12V		BLK.					GND.	3	1
												2
B18D			B18D		"					"	"	3
"			B18H		"					"	"	4
"			B18T		"					"	"	5
"			B18X		"					"	"	6
			B18J									7
C10D			C10D		"					"	"	8
"			C10J		"					"	"	9
"			C10R		"					"	"	10
"			C10X		"					"	"	11
												12
C11D			C11D		"					"	"	13
			C11F		"					"	"	14
"			C11Z		"					"	"	15
												16
C12D			C12D		"					"	"	17
"			C12Z		"					"	"	18
												19
C14D			C14D		"					"	"	20
"			C14F		"					"	"	21
C15D			C15D		"							22
"			C15F		"					"	"	23
C17D			C17D		"					"	"	24
"			C17E		"					"	"	25

DRAFTSMAN E Marcelli 1/23/64

CHECKED M Pleault 1/23/64

ENGINEER J.C.A.

WIRING SEQUENCE: GND

GNDS

TITLE: DEC TAPE 550 CONTROL

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-9

REV. LTR. D

TITLE	A	P	RUN PIN	ORDER	COLOR / VALUE	WIRE / COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE	LINE
C21E			C21E		BLK					NOT TO C21D	4	1
"			C21K		"						"	2
"			C21M		"						"	3
"			C21S		"						"	4
"			C21W		"						"	5
C22E			C22E		"					NOT TO C22D	"	6
"			C22K		"						"	7
"			C22M		"						"	8
"			C22S		"						"	9
"			C22W		"						"	10
A16Y			A16Y		"						"	11
"			GND		"						"	12
C23J			C23J		"					NO "D" CONNECTION	"	13
											"	14
A82F			A82F		"					GND	"	15
"			GND		"					"	"	16
"			B62R		"					"	"	17
B62R			B62S		"					"	"	18
"			B62T		"					"	"	19
"			B62U		"					"	"	20
"			B62V		"					"	"	21
			B62W		"					"	"	22
"			B62X		"					"	"	23
"			B62Y								"	24
"			B62Z								"	25
			GND							GNDS		

DRAFTSMAN E Ricciotti 1/23/64

CHECKED R. Blewett 1/23/64

ENGINEER ADL

WIRING SEQUENCE

GND

TITLE DEC TAPE 550 CONTROL

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-9

REV. LTR. D

	C	B	A
1	[illegible]	4102-775	1501
2	4228	4680	4606 X *
3	4228	SELECT PLUG #1	4606 X *
4	4228 JUMPERS	SELECT PLUG #2	4606-R
5	4228 TO "1"	4129	4606*
6	4228 SIDE	4606 X *	4671 D MODEL OR LATER
7	4228	1011 2,2,2,2,2,2,(STD)	4218
8	1011 2,2,2,2,2,2	1011 3,4,2,2	4102-R
9	4114-13	4127-R	4218
10	4606 X *	4606 X *	4151 "H" MODEL OR LATER
11	4301	4606 X *	4303
12	4301	4604	4303
13	4117-R	4102-R	4680
14	4410	4115-R	1105
15	4410	4116-R	4102-R
16	4202	4102-R	4113-R
17	4401	4214	1011 2,2,3,3,2
18	4523	4105	4127 X *
19	4523	4117-R	4214
20	4523	4115-X	4127 X *
21	HEAD PLUG #1	6102-R	1011 2,2,2,2,2,2,(STD)
22	HEAD PLUG #2	4221-77/PRESET--100000	4127 X *
23	1802	4127 X *	4606 R
24	4523	4261	4127 X *
25	4523	4260	4214

* MEANS REMOVE ALL JUMPERS

DRAWN B. Lumpkin 10-23-63

CHECKED R. Reault 1/23/64

ENG [illegible] 24 Jan 64

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

MOD

TITLE MODULE LOCATION-MODULE JUMPERING

FOR: DEC TAPE CONTROL 550

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NOV 4 1964

ECO NO.	REV. LTR.	APP'V
A-181		TOD
B-185		TOD
C-201 3/26/64		
D-257		
E-2133		

DWG NO A-550-0-10

REV. LTR. E

SHEET 1 OF 1

CODE ML

TITLE	A	P	RUN PIN	ORDER	COLOR VALUE	WIRE COMP	DWG LOCATION	CONT. KEY	S	REMARKS	PAGE	LINE
											1	1
											"	2
B15L			B15L			"				10K OHMS	"	3
"			B15C			"					"	4
B23Y			B23Y			"				10K OHMS	"	5
"			B23C			"					"	6
											"	7
											"	8
DIODE 1		+	A11S							DIODE D-003	"	9
"		−	A141							"	"	10
DIODE 2		−	A11K							DIODE D-003	"	11
"		+	A11D							"	"	12
DIODE 3		−	B15L							DIODE D-003	"	13
"		+	B115							"	"	14
											"	15
"											"	16
RESISTOR 1			A141							10K OHMS	"	17
"			B11A							"	"	18
CAPACITOR 1			A141							CAP 470 MFD	"	19
"			A11K							"	"	20
CAPACITOR 2			C9V							CAP .033 MFD	"	21
"			GND							"	"	22
CAPACITOR 3			C9Z							"	"	23
"			GND							"	"	24
											"	25

DRAFTSMAN [illegible] 1/3/64
CHECKED D. Rheault 1/23/64
ENGINEER [illegible] 2/[illegible]/64

WIRING SEQUENCE

COMPONENTS LIST

TITLE DEC TAPE 550 CONTROL

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-11

REV. LTR. D

SHEET 1 of 3

251-JC4

1 22 TITLE	23 A	24 P	25 36 RUN PIN	37 38 ORDER	39 41 COLOR / VALUE	42 44 WIRE / COMP	45 53 DWG LOCATION	54 55 CONT. KEY	56 S	57 75 REMARKS	76 78 PAGE	79 80 LINE
A2L			A2L		BRN	RES				10K OHMS	2	1
"			A2C			"						2
A2T			A2T			"				10K OHMS		3
"			A2C			"						4
A4Z			A4Z			"				10K OHMS		5
"			A4C			"						6
A18N			A18N			"				10K OHMS		7
"			A18C			"						8
B5L			B5L			"				10K OHMS		9
"			B5C			"						10
A82E			A82E		BRN	RES				3K 1/2W		11
			B62E									12
A82F			A82F		"	DIODE				003		13
			B62F									14
A82H			A82H		"	RES				1K 1/2W		15
			B62H									16
A82J			A82J		"	DIODE				003		17
			B62J									18
A82K			A82K		"	DIODE				662		19
			B62K									20
A62K			A62K		"	RES				6.8K 1/2W		21
			A82E									22
												23
												24
												25

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NOV 4 1964

DRAFTSMAN E Maxwell 1/23/64

CHECKED E Maxwell 1/23/64

ENGINEER

WIRING SEQUENCE

COMPONENTS LIST

TITLE DEC TAPE 550 CONTROL

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-11

REV. LTR. D

1 22 TITLE	23 A	24 P	25 36 RUN PIN	37 38 ORDER	39 41 COLOR / VALUE	42 44 WIRE / COMP	45 53 DWG LOCATION	54 55 CONT. KEY	56 S	57 75 REMARKS	76 78 PAGE	79 80 LINE
CAP. #1			A82R		BRN					.01 MFD. 50V.	3	1
			B62R									2
CAP. #2			A82S							"		3
			B62S									4
CAP. #3			A82T							"		5
			B62T									6
CAP. #4			A82U							"		7
			B62U									8
CAP. #5			A82V							"		9
			B62V									10
CAP. #6			A82W							"		11
			B62W									12
CAP. #7			A82X							"		13
			B62X									14
CAP. #8			A82Y							"		15
			B62Y									16
CAP. #9			A82Z							"		17
			B62Z									18
												19
												20
												21
												22
												23
												24
												25

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DRAFTSMAN

CHECKED

ENGINEER

WIRING SEQUENCE

COMPONENT LIST

TITLE

DECTAPE 550 CONTROL COMPONENTS

ECO# IS D-2133 WAS C-201

DWG NO. A-550-0-11

REV. LTR. D

SPARE PARTS LIST

QTY	MODEL NO.	TITLE
1	4523	READER WRITER
1	4260	MARK TRACK DECODER
1	4261	MARK SYNC DECODER
1	4671	DECODER

ONE (1) REPLACEMENT SCHEMATIC AND A DESCRIPTION OF EACH OF THE ABOVE MODULES.

DRAWN P.J.Priest 1-31-64

CHECKED

ENG

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

APP'V

NOV 4 1964

ECO. NO. A-2133

REV. LTR.

TITLE

SPARE PARTS LIST

FOR DEC TAPE CONTROL 550

DWG NO A-550-0-12

REV. LTR. A

SHEET 1 OF 1

CODE MN

OUTLINE OF DECTAPE CHECKOUT PROCEDURE

General
- Test Equipment
  - Tester
  - Scope
  - Computer
  - Test Tapes
  - Writeups
- ECO Procedure

Detailed Procedure
- I. Basics
  - Prints
  - jumpers
- II. Power
- III. Control Pulses (IOT's)
  - MMDF
  - MMEF
  - MMLL
  - MMSE
  - Power Clear
- IV. Selection Control
- V. Motion Control & Mode Selection
  - Mode Bits & Decoder
  - GO, REV flops
  - Start & Reverse Delays
  - Clear Window
- VI. WRTM MODE
  - Clock, relay
  - Error Counter
    - Preset & Shift pulses
    - Operation
- VII. WREN FLOP
  - Operation
  - Write Interlocking

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		SHEET 1 OF 34	CODE CP

VIII. Timing Pulses and their derivatives
- TPO
- TP1
- TP2

IX. Information Buffer & Shift Register
- Data Flag
- MM10B
- SR

X. Read Amplifiers/Writers

XI. Mark & Mark Error Detection
- Window outputs
- Mark Sync outputs
- Error Detection

XII. Error Status Conditions

DECTAPE 555/550 CHECKOUT PROCEDURE

Test Equipment:

Scope - Normal CA or other 2 trace presentation scope is enough but a millivolt preamplifier (Type D) and dual shielded direct probe is necessary at Section X. Two scopes - or one dual beam scope - equipped with two millivolt preamps are needed for the skew measurement.

Tester - This consists of -

1. A delay line pulse oscillator which can provide recurrent pulses on the various lines to the tape control. (See sketch with this procedure.)

2. A set of indicators connected to the tape IO buffer.

3. A set of indicators connected to the tape status bit.

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			SHEET 2 OF 34 / CODE CP

4. A pulse generator which is triggered by various "flag up" transitions and which will return a "load buffer" or "unload buffer" (MMWR or MMRD) pulse after a delay.

5. A set of switches to provide mode commands and information via the lines which normally hook to the computer's I/O or AC.

6. The REVerse and GO command lines can be connected to a complementary flip flop. Many of the foregoing functions can, of course, be provided by a computer. The Microtog programs for the -1 and -4 machines provide the necessary subroutines.

7. A DECTAPE transport is also necessary. It may be provided in the equipment being checked out.

Computer. For actual margins and final bit-by-bit error detection, a computer is necessary. The Microtog subroutines provide the necessary programs. The procedure for checkout with a computer follows this one.

Test Tapes. One tape written with a standard pattern in the mark track and a so-called virgin tape pattern is necessary.

Prints. Before starting checkout procedure it is MANDATORY that one set of block schematics (C1, C2, TM, W, 1, BD, Timing Chart) and the set of production prints that were actually used to manufacture the items be available. (Module location list, wiring list, cable lists, etc.). These must be bound together in some form or another. On these prints all discrepancies will be noted and finally sent along with the machine when checkout is complete.

The basic procedure is to check the operation of the system and in the process generate -

1. A written list of discrepancies

2. (A marked up) set of block schematics which exactly agree with the equipment.

3. Engineering change orders as appropriate to correct those deficiencies which were present because of incorrect instructions to Production and Checkout. They should also be generated to improve the tester design or overall system reliability.

4. The checkout procedure itself should be updated as design changes and bugs are discovered. It will be used also to revise the Field Test procedure.

One copy of the discrepancies list should be kept permanently by Checkout to assist in checking out further systems. A copy may go along with the prints to the PE or designer. Engineering change orders should be generated as indicated a little further along in this report and will be used to update the present block schematics and plant the seeds for future corrections of the system. These ECO's should be forwarded to the Project Engineer for further processing. Note that these must be forwarded on the same day that the discrepancy was executed if the prints are to be reasonably up to date. At the end of checkout, Quality Control will obtain several brand new sets of prints (which must be on microfilm and listed on the key sheet) and check them against the marked up set to ascertain their accuracy.

ECO Procedure: Checkout originates ECOs for the following reasons in order of urgency.

1. To revise the specific prints applying to the machine

2. To revise the machines which are in process of construction

3. To revise the prints used in construction of future machines (wiring lists, etc.)

4. To revise the prints used in checkout and field maintenance of future machines (block schematics).

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			SHEET 4 OF 34 CODE CP

5. To update the checkout and test procedures themselves.

The Checkout Department need only originate ECOs (daily). It is up to the Project Engineer or the ECO procedure in Drafting, to follow up and send them wherever they must go. The following items should be mentioned in the ECO form as it is originated. Only the first item is absolutely mandatory - the others are helpful.

	EXAMPLE
1. A word description of the change	Buffers inserted in MMIOB buss
2. The wiring that was changed	Move B 23A from B21A
3. What was actually done to the machine being checked	Above change done to Serial #69-550
4. A reason for the change	Too much loading on buss
5. The prints affected	C1B Revision B for Kie and its wiring list
6. The machine's effect	Affects machines after Serial 73, not machines in progress

7. If the change affects machines in progress, rather than future machines, then a detailed description (for the Production girls to execute) of the mod whould be supplied. This is similar to Item 2.

The first item only is mandatory but No. 3 is easy to supply since all prints affected are with the checkout people. No. 7 can, in many cases, be supplied by the checkout people since, in general, they have to modify the current machine already. Machines modified in process will ordinarily not look the same in future production models as in the work in process machines because other mods will go along with those in the future machines and basic wire runs will then be different.

The usual system will be a rack containing a 550 control, some 555 Transports (previously checked out individually before assembly in the rack), a 734 marginal check supply and its control panel and a 728 power supply with a modified 811 power control. In the future, the 555 controls all by themselves should be checked out and sitting on the shelf.

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CHECKED [illegible] 3/7/64		TITLE	CHECKOUT PROCEDURE
ENG [illegible]			
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		SHEET 6 OF 34	CODE CP

DETAILED CHECK PROCEDURES

(One copy to be filled out and kept with each control)

1. **BASIC STEPS** — **OBSERVATIONS**

   A. Check and record on Key Sheet and BLI all serial number, of 550, 555, cabinet assemblies and so on. CK_____

   B. Obtain all prints:

      1. Prints that were used to produce the items.

      2. Checkout prints:
         C1, C2, 1, TM, W, BD, 811 Power Control Timing Diag. UML.
         Consult master print list for correct revisions and see that they exist. CK_____

   C. Check that master print list and key sheet adequately cover equipment checked CK_____

   D. Check all modules with jumper options against the UML and see that all modules and plugs are installed CK_____

   E. Plug in tester and AC power and 555 drive (two wires + AC) if necessary CK_____

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ENG J P A		CHECKOUT PROCEDURE	
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		SHEET 7 OF 34	CODE CP

F. Remove one end of diode between BISL and A19Z (C2A5) to disable error loop CK_____

G. Mark on side of chassis the numbers of all block schematics which apply. CK_____

II Power

A. Apply power-watch for smoke CK_____

B. Local remote switch on 811
UP (local) = Power on
DN (Remote) = Power off if -15 switch on tester is off. Check operation (Leave in remote) CK_____

C. Check -15 dump to writers:

SYNC On -15 switch sync

jack on tester. When it is turned off -15 at C18C should disappear well before the rest of the -15 from the 728 power supply.

C18C_____MS

-15_____MS

D. Measure AC current to 728 and to drives and total current. (Clamp on ammeter)

Total_____Amps

728_____Amps

Drives____Amps

E. Check marginal check supply output for correctness using a simpson on one back panel and varying the voltage, Compare meter readings. _____OK

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			SHEET 8 OF 34 CODE CP

III. CONTROL PULSES

Start tester's delay loop (Fast) to generate continuous pulses on buss to control switches.

Sync on pulse output from delays to buss. The scope _____

will remain sync like this all the way to Section IV _____
page 12.

Find pulses on buss for time measurement (expand the time scale to see the pulse well). All buss switches off. _____

A. MMDF and MMEF

1. Select MMDF + MMEF on rotary switch. Check pulse at A3K, S. (C1C4). Change terminator at (and record fact) if necessary to reduce pulse to 2.7V max.

   Height_____V
   Term_____O

2. Make MBB12 = 0 with toggle on tester.
   Check for -3V at A3T, A4T
   Measure MMDF pulse at tester jack. Make MBB12=1; Pulse Gone?

   A4T_____V
   Height_____V
   Quality_____
   Negat_____

3. With MBB12=1 (check +3 at A3L, A4L0

   Check MMEF pulse at tester jack

   MBB12=0; Pulse Gone?

   A4L_____V
   Height_____V
   Quality_____

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		SHEET 9 OF 34	CODE CP

III. A.

4. Turn off MMDF + EF for good — Negat_____

B. MMLC + MMSE

1. Turn on "MMLC + MMSE" pulses. Check eight (max. 2.7 (same scope syncing on pulse outputs of Delay to Buss) and terminate at A4S (C1C3) if necessary.

H_____V
Q_____
Term_____

2. With MBB12=0 check MMLC at A18E (C1C5) and change term if >2.7V (Record fact). Reduce incoming pulse with "substandard" PB on tester and make sure MMLC still exits. Look also for MMLC at A2K (C1B4) Make MBB12=1 and check for no MMLC.

A18E_____V
Q_____
TERM_____
A2K_____
A2K_____

3. Repeat (2). Looking for MMSE at A7P (C1C2) and A2E (C1B3). With MBB12=1 check MMSE at A7P (C1C2) and change term if pulse is >2.7 volts (record fact). Reduce incoming pulse with "substandard" PB on tester and make sure MMSE still exits. Look also for MMSE A2E. (C1B3). Make MBB12=0 and check for no MMSE.

A7P_____V
Q_____
Term_____
A7P_____
A2E_____
A2E_____

Look also for no SE at A2K.

A2K_____

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		SHEET 10 OF 34	CODE CP

4. Turn off "MMLC + MMSE" pulses. Supply "MMSE" and check its existence at A4E (C1C3). Change terminator if necessary to lower pulse to 2.5-2.7V.

A4E_____
Term_____

5. Check output of PA for pulses. (A4H). Turn off pulse supply; pulses should stop.

A4H_____
A4H_____

6. Supply "MMLC" pulses and check A4M (C1C3). Change terminator if necessary. Check output of PA for pulses (A4P) and the look of them.

A4M_____
Term_____
A4P_____
A4P_____

C. Power Clear Pulses

1. Supply power clear pulses. Check neg amplitude at A3U (C1C4). Change terminator only if really bad pulse shape

A3U_____-V

2. Check pos. amplitude at A19R (C1C5). Change terminator if >2.7V

A19R_____+V
Term_____

3. Check that clear window pulses occur at A4W via B5P and B5M (WD2)

A4W_____1
B5P_____+V
B5N_____-V

4. Check that clr status flop pulse exists at A2J (C1B4) Check terminator at_____.

A2J_____+V
Term_____

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CHECKED T. Bleam 3/9/64		CHECKOUT PROCEDURE	
ENG JCA			
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			SHEET 11 OF 34 / CODE CP

IV. SELECTION CONTROL

A. Supply power clear pulses and MMSE. Set delay times to "Fast".

B. By changing bits 2, 3, 4, 5 of the "Test Accumulator" switches to one, the flops U4, U3, U2, U1 (in that order) will be set via the in gates and cleared by power clear at A7R. (C1D1)

C. Check both sides of each flop for rise time (0.2μs rise) and fall time.

Continue to sync on buss.

	R(Y)F	R(Z)F
	(T)	(W)
	(M)	(N)
	(J)	(L)

D. Insert load plug (ten 100Ω resistors to -15) in B3 or B4 or turn selection switch on drive from point to point as check proceeds and check all decoder outputs by going through all the numbers 0-10$_d$. Check that each decoder output "waggles" with the correct number in the "AC", by looking at B4 X thru B4N.

D	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

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CHECKED 3/3/64
ENG

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TITLE: CHECKOUT PROCEDURE

APP'V

NOV 4 1964

ECO. NO. REV. LTR.

DWG NO A-550-0-13

REV. LTR. A

SHEET 12 OF 34

CODE CP

V. MODE AND MOTION CONTROL

A. Supply power clear pulses in addition to MMLC. Set delays to "FAST."

B. Mode

1. By setting test accumulator switch bits 15,16,17 up each "M" flop will be set by MMLC and cleared by power clear at A9R (C1C7). Check all rise and fall times and that correct switch runs correct flop.

Rise/Fall usec

(W) M_1^0 — $-M_1^1$ ◆A9 T

(N) M_2^0 — $-M_2^1$ ◆A9 M

(M) M_3^0 — $-M_3^1$ ◆A9 J

Continue to sync on buss pulse.

C. 2. Check all 8 decoder for rise and fall by setting all modes in turn. "GO" must be one (bit 12=1) for this test. Temporarily ground A14P to simulate this. Check that outputs disappear when GO=zero.

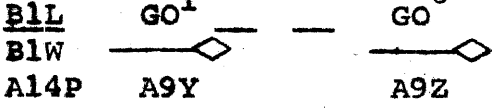
3. Check the outputs of the inverters at C1B8 which supply the negative levels for assertion when needed.

0	__	__
1	__	__
2	__	__
3	__	__
4	__	__
5	__	__
6	__	__
7	__	__

C. Motion Flops

1. Go Flop

(a) by setting Bit 12 the Go flip flop will be set by MMLC and cleared by power clear. Do it. Check Rise and Fall times of Go Flop and of buffers at B1L, B1W, A14P



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P. J. Priest	2/28/64		
CHECKED	3/9/64		CHECKOUT PROCEDURE
ENG			
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			SHEET 13 OF 34 / CODE CP

(b) Check status Bit at tester jack for neg when GO = one via inverter at B13Z (2C2A7) (right after MMLC pulse). Ignore rise time.

B1L-R___ B1N-R___
F___ F___

A14P
R___
F___

V.C.1. (c) Turn "Run" Switch off on panel and observe that GO flop is held=zero by inverter at A14U (C1C7). Turn "Run" Switch back on.

(d) Turn off power clears and set bit 12 switches on tester to supply a complementing level to Bit 12.

Continue to sync on buss. Observe that GO flip flop changes start on each MMLC pulse ___B5P

(e) Check that clear window pulses at B5P (WD1) occur at transition of GO to "0". ___A4W

2. Rev Flop

(a) Turn power clears back on. By setting Bit 13 switch and Bit 12 the REV flop will be set by MMLC and cleared by power clear. Check rise & fall times of Flop. (C1C6) and of buffers at B13F and B16T. (200 ns max)

	0	1
R	___	___
F	___	___

1 0

Rev A19V ◆ Rev A19T ◆

B13F R___
F___

B16T R___
F___

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CHECKED [illegible] 3/9/64		TITLE	
ENG 202		CHECKOUT PROCEDURE	
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		SHEET 14 OF 34	CODE CP

(b) Check status bit (at tester) for neg when Rev=1. via inv at B13R (C2A7). Ignore rise time problems _____

(c) Turn "Power Clear" off. Turn off bit 12 to clear GO. Observe that rev flip flop goes not change when Bit 13 switch is moved. _____

V.C.2. (d) Turn on Bit 12, change Rev to opposite state with Bit 13 and turn 12 back off. Observe that Rev still doesn't budge when Bit 13 switch is moved. _____

3. DELAYS

(a) Set TESTER TO "SLOW" (2 sec per cycle). Switch Bit 12 transfer switch so that it is supplied from the complementing flip flop. Supply MMLC pulses. GO Flop should alternately set and clear. (Rise time was previously checked).

SYNC ON BUSS

(b) Set START Delay to 150 MS (A12U) (C1A7). Check that it fires upon transition of GO to a "one". A12U_____

(c) Check output of DIP NOR at A16H. A16H_____

(d) Set Tester as in (a) but transfer bit 13 to the complementing line and bit 12 to the test switches. Set test switch 12 go "1" so REV will alternately set and clear at the slow rate.

( ) [illegible]

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CHECKED M. Kraft 3/9/64		TITLE CHECKOUT PROCEDURE	
ENG ICA			
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(e) TURN AROUND Delay should be fired at <u>both</u> transitions of REV (at every pulse on the bus). Set it to 250MS. , A11U (C1A6) _____

(f) Check output of DIP NOR AT A16H check rise and fall time because it's used to generate a pulse. risetime ____/____Fall

risetime____/____Fall

(g) Similarly check DIP at B16F (C1A6)

D. Drive operation

(a) Load a (SFRATC+1) tape on drive. Generate MMSE select it. Generate MMLC and set TEST SW 12 ( )=1 and 13 to the complementing flop. Drive should run alternately back and forth. Check that direction of motion agrees with status indication. Check for -15 at solenoid drivers Pin E (A13,B2) C1B6 during operation. If drive operation check out SD's and wiring (C1B6). B2E _____

A13E _____

(b) Marginal Check -15 and +10 to decoder to drives to check selection and motion relays operation. Should work at least to -11 volts. -15 margins on panel B + 10 on Panel A. What failed? -15MC _____

_____

_____

(c) Remove tape (or let reels spin) for next few sections.

(d) Check enable level due to incorrect selection.

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E. WINDOW Clear

Check clr Window pulses due to both transitions of DIP at A4U and Y. See output at A4W. (WD3) Start_____

Change sync to DIP output (A16H going to ground) to see pulse due to transition at trailing edge. end_____

VI. WRTM MODE

A. Clock Timing Pulses

Set Test Switches to search mode (MMLC and 15-17 = 001).

1. Close Back panel switch to close RELTM relay. Back panel light near switch should light. Red light on drive(s) should light. UP = ON _____

   _____

   Relay should close. Check for ground at A16K (C2C2) and neg at B7L and B7W. See that all three points reverse when switch is turned back off. _____A16K _____B7L _____B7W

   Leave RELTM switch on for remainder of procedure until test tape is mounted for tape operation.

   Sync on Clock Pulses.

2. Check Clock output at C17F (TMA1) (positive pulses). _____volts
   Terminate to 2.7 volts or less at A25J if necessary. _____Term size
   Note term size if new. Set Clock to 8-1/3 μsec for now. Turn off RELTM sw and check that clock stops. _____Stop?

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R/F

3. (a) Using WRTM waveforms at TMC4 Check Clock Flip Flops. CK1' ___/___ CK2' ___/___

(b) Check $\overline{\text{RECTM}}$ at C13T, S (TMC3). (Wiggle RELTM switch to make sure). C13T _____

(c) Check TP1 and TP0 at C10P, W (TM34). C10P _____
Temporarily ground $\overline{\text{DIP}}$ ⟶ at C10Z and C10W _____
check that TP's disappear. Check at B9X $\overline{\text{C10W}}$ _____
and B6S and change terms if >2.7V. $\overline{\text{C10P}}$ _____

_____
term _____

(d) Check for TP2A at C11E and C10H (TMA5). de _____
Set delay to 4.5 μs. Also look at_____ C11E _____
and _____and change term if necessary C10H _____
at_____to reduce pulse to 2.7V. TP2A _____
Check TP2 at C10H and at C20U change term Term _____
if necessary to reduce pulse to 2.7 volts. _____
Term _____
TP2A _____
tem _____ohm
TP2 _____
tem _____ohm

B. "EK"

1. Set drive number in test SWITCHES 2-5. Generate MMSE to select drive. Set UP WRTM MODE (15, 16, 17 of TEST SWITCHES = 111). Set bit 12 to complementing line. Generate MMLC at FAST rate to create an "alternating WRTM mode."

Sync again on bus pulses (MMLC)

(a) Check output of decoder at A10Z (C1B8) for proper alternation. _____

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(b) Check alternating output of WRTMR ——◆ at A17M - make sure phasing is correct - (C2C2), at A15R (C1B8), and at A17T (C2B3).

_______ A17T
_______ B7M
_______ A17R
_______ B7W
_______ B7K

(c) Change to WRT MODE (011) and check A17K (C2C2) and A17W for proper alternation. Also A17R.

(d) SYNC ON WRTMR TRANSITIONS and check preset pulses at B22Z. (WC2) (Also sync on B23X & Flip RELTM Switch & look for pulses). (Blk MK should not be present since window has been cleared.)

_______ B22Z

$\overline{BM}$ _______

(e) SYNC ON TPO's at C10W and check TPO's at B22X.

____

2. Change from complementing mode to continuous WRTMR mode by selecting TEST bit 12 switch and making it=one.

(a) Find EK6 waveform on print (WB7) Check carefully the risetime, and duration. If necessary from now on, jiggle RELTM Toggle which should preset the EK if it has been disturbed.

EK6'—◆ _______
R/F ___/___

(b) Check same EK6' waveform at A17S and Z. (Note notch at Z due to TP2's. (C2C3)

A17S _______
A17Z _______

SYNC ON leading (NEG) edge WAVEFORM AT A17S for rest of procedure.

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change term if necessary at_____to reduce pulse to 2.7V

TP2A_____ohm
tem _____ohm

Check TP2 at C10H and at C20U change term if necessary to reduce pulse to 2.7 volts.

TP2 _____
tem _____ohm

B. "EK"

1. Set drive number in test Switches 2-5. Generate MMSE to select drive. Set up WRTM MODE (15,16,17 of TEST SWITCHES = 111). Set bit 12 to complementing line. Generate MMLC at FAST rate to create an "alternating WRTM mode."

Sync again on bus pulses (MMLC)

(a) Check output of decoder at A10Z (C1B8) for proper alternation. _____

(b) Check alternating output of WRTMR at A17M, make sure passing is correct. (C2C2), at A15R (C1B8), and at A17T (C2B3) (C2B3) _____

_____A17T
_____A17M
_____A17R
_____A17W
_____A17K

(c) Change to WRT MODE (011) and check A17K (C2C2) and A17W for proper alternation. Also A17R.

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(d) SYNC ON WRTMR TRANSITIONS and check preset pulses at B22Z. (WC2) (Blk MK should not be present since window has been cleared) _____B22Z

BM _____

(e) SYNC on TPO's at C10W and check TPO's at B22X. _____

2. Change from complementing mode to continuous WRTMR mode by selecting TEST bit 12 switch and making it = one.

(a) Find EK6 waveform on print. (WB7) EK6 ⟨◆ _____

Check carefully the risetime, and duration. If necessary from now on, jiggle RELTM Toggle which should preset the EK if it has been disturbed. R/F _____

(b) Check same EK6 ⟨◆ waveform at A17S and Z. _____A17S

(Note notch at Z due to TP2's (C2C3) _____A17Z

SYNC ON leading (NEG) edge WAVEFORM AT A17S for rest of procedure.

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VII. C. WREN FLOP

1. Change back to fast complementing GO mode in WRTM mode so as to alternately clear and set WREN via A17Z and A17W. (C2C3)

   (a) Set Bit 12 to complementing flop.
   (b) Set 15,16,17 = 111, Bit 13=0 (FWD)
   (c) Generate MMLC
   (d) Disconnect one end error diode at B115 is not already done.
   (e) Ground (CLIP LEAD) at AZZN to prevent false unable errors from clearing WREN.

2. Check WREN RISE AND FALL TIMES | SYNC ON ITSELF |

3. SYNC ON BUSS AGAIN
   Check that RDF pulses appear at A23W (C2C3) (via A24Z) (C2B4) when and only when WRTMR exists. A23W_____

4. Check that M Break pulses occur at output of A2W (C2A4) for each RDF and that they also occur at tester MB jack.
   A2W_____
   tester_____

5. Check write interlocking

   (a) Wren level at B13 U,W,S, (C1A5) (check rise & fall time carefully)

   R F
   ___/___

   To see rise times of WREN place on Slow MMLC comp bit up and probe on A19Z the other on B13U when is 1, other is negative.

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(b) Check neg level at C18,19,20 L via selection and write Lock Switch on drive. (C1A4) Check that ground occurs always on deselecting or WRITE LOCK SWITCH OFF. Repeat for each drive in system.

C20L_____
C20L_____

(c) Check neg level at C24, C25 L via RELTM relay C23S, E. (C1A2)

_____
_____

(d) Turn off RELTM and check continuity between C24L and ground.

(e) Set drive switch to write lock, and observe outputs of C9V and C9Z (C2C7). They should go NEG when WREN and positive otherwise. Remove clip on unable at A22N. No unable failures should occur.

C9V_____
C9Z_____

(f) Check Wren Transitions at B16, V,X,Z (C2A2);

A21S (TMAS); B8S, P (TMA6); B8F, L (TMC5)

_____
_____
_____
_____

(g) B10S, K (TMA7) Neg transitions must be fast

_____ns
_____ns

(h) Check SRWB (TEST SW 13 = 0 FOR REV° level) Pulse at B10P, B13L, (TMA7) due to wren' transition. 6

B10P_____
B13L_____
TERM_____0
( )

(i) Similarly check for SLWB (TS 13 - 1) at B10H, B13J. (TMA7) Check terminators

B10H_____0
B13J_____
TERM_____
( )

(j) Slowly comp wren F.F. Rev bit=0. See that B10T is neg. Look for Single pulse at B10P for WREN transition from ground to neg for wren a "1"

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VI. D. 3. (b)

(2) CPW_M at B11X — B11X_____

Must disappear if WRTM goes (change to 011 = WRT temporarily) — TERM at 0

(3) TS13 (REV) = 0; MODE (011)
FIND SR. at B6P (TMB6) — B6P_____
must disappear in WRT (011) mode, with write lock switch in read only, and also with REV = 1. — $\bar{B}6P$_____WR LOCK
$\bar{B}6\bar{P}$_____REV = 1

(4) TSB (REV) = 1; mode 010 Find SL at B6W (TMC6) - must disappear in WRT with write end switch in read only. And also REV=0. — B6W_____
$\bar{B}6\bar{W}$_____
$\bar{B}6\bar{W}$_____

(5) Change Search Mode (000) — B6P_____
Find MMSR SR at — B9T_____
B6P (TMB6) due to — B7Z_____
B9T (TMB4) and B7Z
NEG
Check for Disappearance when not search mode — _____

000

(c) TP2

(1) Ground LOCK at B24X (WA5) temporarily and see 0→SR at B11H (TMA5) — B11H_____
TERM_____0
and CPSR at B12H (1 usec pos) (TMA6) — B12H_____
see waveforms on print — TERM_____0

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D. 3. (c) (2) In WRTM MODE (111 & GO) RDF pulses at B11S (TMA6) should cause interchange pulses at B11P, (TMA6) every 200 μs. if the LOCK jumper is removed from B24X. They should disappear when LOCK short is replaced on B24X. Leave it off when due. Check size of RDF pulses at B11S and terminate if needed to reduce pulse to 2.7 volts

B11P_____

B11S_____

TERM_____0

(3) In WRTM MODE produce FINAL mark by grounding B24T (WA6) B11P should show interchange pulses via B9H and B9F. (TMA5) Remove FINAL ground; interchanges should disappear. Remove

B9H_____

$\overline{B9H}$_____

(4) Ground B24Z (WA6) to produce RBF pulses by generating prefinal change mode to WRT (011) (TMA6). RBFS should appear at B11M (011) (TMA6) via A23P (C2B1) Terminate if necessary. Check output of interchange at B11P

B11M_____

TERM_____

B11P_____

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IX. INFORMATION BUFFER & SHIFT REGISTER

A. SET UP

Select tape unit and load WRTM status. (Repeat slowly MMLC then MMSE). Put the tape control in RELTM mode via the Toggle switch on the back panel. Tape need not be mounted on drive.

INA1 Then check at C2 - C7Y for MMWR pulse. Change terminator only if pulse amplitude is greater than 3 volts.

MMWR_____

Term_____

B. SYNC

Synchronize scope on EK_6^1. This syncing will be maintained throughout the next portion of the procedure. Use the negative leading edge of the square waveform at A17Z to avoid loading the EK_6 flop.

It is convenient to use a dual-trace scope from here on and display the waveform which is present at A17Z (see next paragraph for picture) throughout the next part of the procedure along with the other waveforms which will be viewed.

C. DATA FLAG

C2B4 (1) Check existence of MB pulses (Break Request pulses) from pulse generator at ( ). These pulses should cause the delay in tester to operate

INA1 and return MMWR pulses to C2=C7Y, via tester jack, cable, plug, and taper pin block. MMWR_____

Change terminator on chocolate block only if greater than 3 volts.

(2) Check MMWR pulse into PA at A2M. Do not change

C1 terminator unless pulse is terrible. A2M_____
Term_____

C2B2? (3) Check Clr DF/BF pulses (pos) at A2R. A2R_____

(4) Observe Data Flag Flip-Flop at R F

A19X, A19Z A19X__//__

A19Z__/__

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D. MMIOB

(Refer to sketch of IOB waveforms). With trace of EK6 flop on screen, (if used) use second trace to observe output of each MMIOB bit immediately prior to the interchange pulse.

Ignore other parts of the waveform. With corresponding "Test ACC" switch equal to zero ("0") (down), the MMIOB bit should be ground on the bus. With switch = "1" (up) the bit should be -3 v. prior to interchg.

Note: Bits 2-4; 12-17 will affect mode and selection - turn off MMLC and MMSE pulses when checking these bits.

MMIOB OUTPUTS TO ACCUMULATORS:

0	/	/	9
1	/	/	10
2	/	/	11
3	/	/	12
4	/	/	13
5	/	/	14
6	/	???	15
7	/	/	16
8	/	/	17

E. SHIFT REGISTER

With first trace and syncing as before observe the output of each SR bit immediately following the interchange pulse. Ignore other parts of the waveform. With corresponding "ACC" switch = zero (down) the MMSR bit output should be -3 on the appropriate pins of C2-C7. Note: As in bits 2-4, 12-17 will affect mode and selection, so turn off MMSE, MMLC.

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F. SHIFTING IN TOTAL.

Same syncing as before but with one full cycle of EK6 on screen: Observe SR bit 5, (11) (17) (FWD)

0, (6), (12) (REV).

The switches should affect the waveforms at times indicated in drawing.

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XI.

C. MARK TRACK AND MARK ERROR FUNCTION

(Rock in Read Mode 2 octal)

WB5 (1) Find "OR" off all marks at B19T and inverse at B20U

Sync on 13E. Notice that exactly two marks are

missing (future mods change)

(2) Find EK1 waveform at B20R. Notice off-set.

WC3 At B20R notice offset

(a) Check preset pulses at B22-7

(3) Find at B15W notice narrow guard (if CLR

window OK)
Missing RBM - G.

(4) Find window open at B15V

WD1 (a) Check clear window pulses at B5P due to

guard and mark

(5) Find BMF level at B15U.

(a) Check exact transition times at BM & guard)

(b) Check

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IX. INFORMATION BUFFER & SHIFT REGISTER

A. SET UP

Select tape unit and load WRTM status. (Repeat slowly MMSE then MMLC). Put the tape control in RELTM mode via the Toggle switch on the back panel. Tape need not be mounted on drive.

B. SYNC

Synchronize scope on EK_6^1. This syncing will be maintained throughout the next portion of the procedure. Use the negative leading edge of the square waveform at A17Z to avoid loading the EK_6 flop.

It is convenient to use a dual-trace scope from here on and display the waveform which is present at A17Z (see illustration_____) throughout the next part of the procedure along with the other waveforms which will be viewed.

NOTE: At this point, experience indicates it would be a good idea to resolder all joints on C2-C7 (Units plugged in).

C. DATA FLAG

(1) Check existence of MB pulses (Break Request pulses) from pulse generator at (C2A4). These pulses should cause the delay in tester to operate and return MMWR pulses to C2-C7Y, via tester jack, cable, plug, and taper pin block.

MMWR_____

Change terminator only if greater than 3 volts.

IX. C. (2) Check MMWR pulse into PA at A2M (C1B4). Do not change terminator unless pulse is terrible.

(3) Switch briefly to supply MMRD from tester and check A2S and terminate. Check A2R for output.

(4) Check Clr DF/BF pulses (pos) at A2R (C1B4). Term if necessary.

(5) Observe Data Flag Flip-flop at A19X, A19Z. It should be set by RDFs via A14L (C2B6) and cleared by clr DF/BF from MMWR.

A2M_____
Term_____
A2S_____
Term_____
A2R_____ (+V)
Term_____

	R	F
A19X	/	
A19X		/

D. MMIOB

(Refer to sketch of IOB waveforms). With trace of EK6 flop on screen (if used), use second trace to observe output of each MMIOB bit <u>immediately prior to the interchange pulse</u>. <u>Ignore other parts of the waveform</u>. With corresponding "Test ACC" switch equal to zero ("0") (Down), the MMIOB bit should be ground on the bus. With switch="1" (up) the bit should be -3 V prior to interchg.

MMIOB OUTPUTS TO ACCUMULATOR:

0	/	/	9
1	/	/	10
2	/	/	11
3	/	/	12
4	/	/	13
5	/	/	14
6	/	/	15
7	/	/	16
8	/	/	17

E. SHIFT REGISTER

With first trace and syncing as before observe the output of each SR bit <u>immediately following</u> the interchange pulse. <u>Ignore</u> other parts of the waveform. With corresponding "ACC" switch=zero (down) the MMSR bit output should be -3 on the appropriate pins of C2-C7. Note: As in bits 2-4, 12-17 will affect mode and selection, so turn off MMSE, MMLC.

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F. WRITING WAVEFORMS AT HEADS (WRTM)

G. SHIFTING IN TOTAL

Same syncing as before but with one full cycle of EK6 on screen: Observe SR bit 5, (11) (17) (FWD)

0, (6), (12) (REV).

The switches should affect the waveforms at times indicated in drawing.

X. Set up to read, test read signal, alignment of Amps, rocker, timing pulses WINDOW Read in waveforms.

XI.

A. WINDOW OUT

B. ± MARK SYNC OUT

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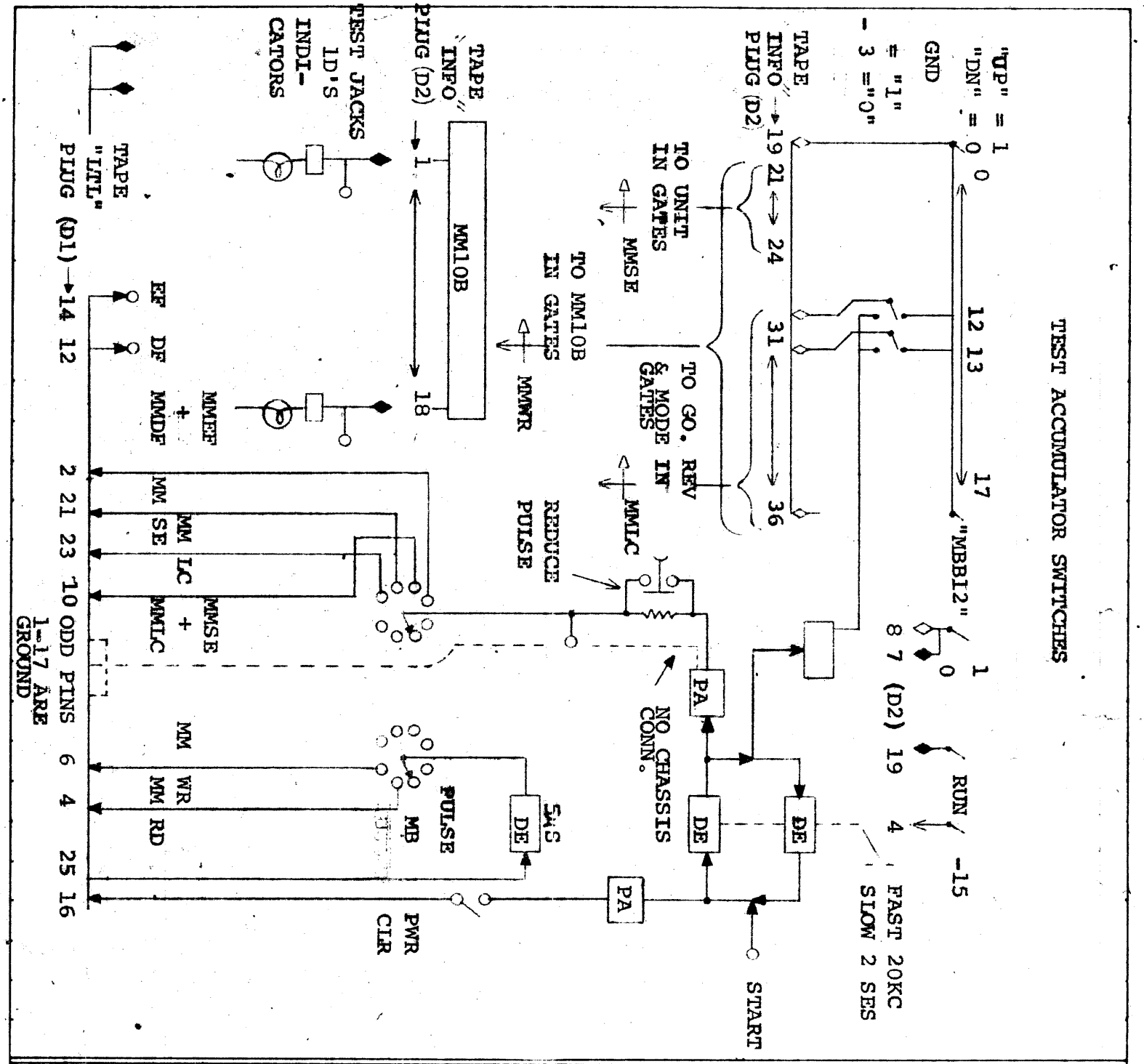
CHECKED 3/9/64		TITLE	
ENG		CHECKOUT PROCEDURE	
THIS SCHEMATIC IS FURNISHED ONLY FOR TEST & MAINTAINANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE & SHOULD BE TREATED ACCORDINGLY.	APP'V		
NOV 4 1964	ECO. NO. REV. LTR.	DWG NO A-550-0-13	REV. LTR. A
		SHEET 33 OF 34	CODE CP



DRAWN Elaine Massarelli 3/4/64	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS		
CHECKED W. Brandt 3/9/64		TITLE	
ENG		CHECKOUT PROCEDURE	
THIS SCHEMATIC IS FURNISHED ONLY FOR TEST & MAINTAINANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE & SHOULD BE TREATED ACCORDINGLY.	APP'V		
NOV 4 1964	ECO. NO. REV. LTR.	DWG NO A-550-0-13	REV. LTR. A
		SHEET 34 OF 34	CODE CP

JACK [x] PLUG [ ]

FEMALE [x] MALE [ ]

LOCATION, LENGTH, ROUTE

COLOR	PIN	PIN	NAME	COLOR	PIN	PIN	NAME
WHITE	**2H08X-F1**	1	**MMIO-0**	**WHITE**	**2H03H-F1**	26	**ACB 7**
	2H09X-F1	2	**MMIO-1**		**2H03J-F1**	27	**ACB 8**
	2H10X-F1	3	**MMIO-2**		**2H03K-F1**	28	**ACB 9**
	2H11X-F1	4	**MMIO-3**		**2H03L-F1**	29	**ACB 10**
	2H12X-F1	5	**MMIO-4**		**2H03M-F1**	30	**ACB 11**
	2H13X-F1	6	**MMIO-5**		**2H03N-F1**	31	**ACB 12**
	2H14X-F1	7	**MMIO-6**		**2H03P-F1**	32	**ACB 13**
	2H15X-F1	8	**MMIO-7**		**2H03R-F1**	33	**ACB 14**
	2H16X-F1	9	**MMIO-8**		**2H03S-F1**	34	**ACB 15**
	2H17X-F1	10	**MMIO-9**		**2H03T-F1**	35	**ACB 16**
	2H18X-F1	11	**MMIO-10**		**2H03U-F1**	36	**ACB 17**
	2H19X-F1	12	**MMIO-11**		**2H03V-F1**	37	**MMB 12**
	2H20X-F1	13	**MMIO-12**	**WHITE**	**2H03W-F1**	38	**MMB 12**
	2H21X-F1	14	**MMIO-13**			39	
	2H22X-F1	15	**MMIO-14**			40	
	2H23X-F1	16	**MMIO-15**			41	
	2H24X-F1	17	**MMIO-16**			42	
	2H25X-F1	18	**MMIO-17**			43	
	2H03A-F1	19	**ACB 0**			44	
	2H03B-F1	20	**ACB 1**			45	
	2H03C-F1	21	**ACB 2**			46	
	2H03D-F1	22	**ACB 3**			47	
	2H03E-F1	23	**ACB 4**			48	
	2H03F-F1	24	**ACB 5**			49	
WHITE	**2H03G-F1**	25	**ACB 6**	**BLK**	**GND.**	50	**GND.**

DRAWN **Lois Brown 7-3-63**

CHECKED [illegible]

ENG [illegible]

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

50 PIN AMPHENOL

TITLE

TO INFO PLUG OF

550 M.T. CONTROL

REF: 550-01-00-03-00

ECO. NO.	REV. LTR.	APP'V
A-7-00-24-01	B	11-1-63
B-DWG. NO. WAS A-49		

DWG NO A-550-01-00-04-00 REV. LTR. B

SHEET OF CODE CL

COLOR	NAME	PIN	PIN	REMARKS
WHITE	BLK F'	2H09T-F1	2H07X-F2	
WHITE	BLK F'	2H07X-F1	2H05U-F2	
WHITE	ERR F'	2E10T-F1	2H07F-F2	
WHITE	DATA F'	2H07J-F1	2H05T-F2	
WHITE	DATA F	2H08T-F1	2H07J-F2	
GRAY	IOT 7502	2F18H-F1	2H08W-F1	
GRAY	IOT 7502	2F19H-F1	2H08S-F1	
GRAY	IOT 7601	2F19E-F1	2H07W-F2	

DRAWN LOIS BROWN 7-3-63

CHECKED [illegible signature] 7/1/63

ENG [illegible signature]

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

GENERAL WIRING SHEET

TITLE 550 TAPE CONTROL: WIRING IN REAL TIME SECTION

APP'V	ECO. NO.	REV. LTR.
	70A	A-49
	B-DWG. NO. WAS	
	A-4-20-24-01	
11/9/64		B

NOV 4 1964

DWG NO A-550-01-00-05-00

REV. LTR. B

SHEET OF

CODE W/L

JACK [X] PLUG [ ]

FEMALE [X] MALE [ ]

LOCATION, LENGTH, ROUTE

COLOR	PIN	PIN	NAME	COLOR	PIN	PIN	NAME
BLACK	GND	1	GND	WHITE	2H08T-F2	26	DATA F'
GRAY	2F18E-F1	2	IOT 7501		2H09T-F2	27	BLK F'
BLACK	GND	3	GND		2H10T-F2	28	ERR F'
GRAY	2H25S-F1	4	IOT 7502		2H11T-F2	29	OFF END
BLACK	GND	5	GND		2H12T-F2	30	MIS IND
GRAY	2F18K-F1	6	IOT 7504		2H13T-F2	31	REV.
BLACK	GND	7	GND		2H14T-F2	32	GO
GRAY	2H16S-F1	8	IOT 7602		2H15T-F2	33	MK TK ERR
BLACK	GND	9	GND	WHITE	2H16T-F2	34	UNABLE
GRAY	2F19K-F1	10	IOT 7604			35	
BLACK	GND	11	GND			36	
GRAY	2E24W	12	47K TO			37	
BLACK	GND	13	GND			38	
GRAY	2E24U	14	TERMINATORS			39	
BLACK	GND	15	GND			40	
GRAY	2H04B-F3	16	RTO PWR. CLR.			41	
BLACK	GND	17	GND			42	
BLACK	GND	18	GND			43	
GRAY	2H04F-F3	19	RTO BEGIN			44	
BLACK	GND	20	GND			45	
		21				46	
		22		RED	2H05Q	47	+10
		23				48	
		24		BLUE	2H06Q	49	-15
		25		BLACK	GND	50	GND

DRAWN Lois Brown 7-8-63

CHECKED R. Hewitt 7/9/63

ENG T. C. Stockbridge

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

50 PIN AMPHENOL

TITLE

TO CONTROL PLUG

(550 M.T. CONTROL)

REF: 550-01-00-02-00

ECO. NO. REV. LTR.	APP'V
11-1-63	
A-00-24-02	
B- Dwg No. was	

NOV 4 1964

DWG NO A-550-01-00-05-00

REV LTR. B

SHEET | OF |

CODE C.L.