CARD ASSY. INFORMATION * ND-100-MINI *

RACK POS.	ND NO.	BOARD NAME	PRINT IDENT	PRINT ECO	PRINT VER	THUMB.WHEEL SETTING INTER-FACE.	THUMB.WHEEL SETTING DYNAMIC MEMORY.
22		******************** NOT USED ********************					
21							
20	116	128K DYNAMIC RAM	3034				0-0-0
19	391	MPM4 PORT B. (INSTR.MOST)	3032				
18	391	MPM4 PORT A. (DATA MOST)	3032				
17	390	ND 100 BUS-CONTROL	3031				
16		******************** NOT USED ********************					
15	395	N 100 BUS MASTER	3030				
14	116	128K DYNAMIC RAM	3034				0-0-0
13							
12							
11							
10	858	LOCAL I/O BUS	3009	H	F		
9	271	4 TERMINAL INTERFACE	3010	Q	N	1-7	
8	367	FLOPPY DISC CONTROLLER	3027	F	C	0	
7	559	LARGE DISC	3019	P	M	8	
6	559	LARGE DISC	3018	P	J		
5	065	ND-500 INTERFACE	3022	J	C	0	
4	-	SPARE					
3	032	MEMORY MANAGEMENT W/CACHE	3012	N	J		
2		----------------					
1	100	NORD - 100 CPU	30022	T	E	12-9	

500+100 noda?

100's 1 halk

COMMENTS:

CUSTOMER: STUDSVIK ENERGITEKNIK, NYKØPING

CPU NO.: ND-500.062

CARD ASSEMBLY * ND500-MINI *

RACK SLOT	BOARD NAME.	PRINT NO.	PRINT LEV.	PRINT FCO	PORTS CODING DISPLAY L.L	PORTS CODING DISPLAY H.L	PORTS CODING DISPLAY BASE	THWHEEL SETTING P	THWHEEL SETTING M
1	ND 100 BUS CONTROL	3031			001	006	002		
2	MPM4 PORT A.(DATA LEAST)	3032			000	002	000		
3	MPM4 PORT B.(INST LEAST)	3032			000	002	000		
4	128K DYNAMIC RAM	3034							
5									
6	********************* NOT USED ****************************								
7	CACHE INSTR.	5006	B						
8	CACHE CONTROL (INSTR.)	5017	N						
9	CACHE DATA	5006	B						
10	CACHE CONTROL (DATA)	5017	N						
11	MEMORY MANAGEMENT INSTR.	5005	P						
12	MEMORY MANAGEMENT DATA	5005	P						
13	CONTROL II	5015	H						
14	PREEFETCH	5018	N						
15	CONTROL I	5012	F						
16	TRAP	5019	R						
17	CONTROL STORE	5401	C						
18	SEQUENCER	5004	F						
19	CPU-SLICE	5001.	H						
20	CPU-SLICE	5001.	H						
21	CPU-SLICE	5001.	H						
22	CPU-SLICE	5001.	H						
23	ARITH. 1	5008	E						
24	ARITH. 2	5009	F						
25	ARITH. 3	5011	C						
26	ARITH. 4	5014	E						
27	SPARE								

500 600 gramm?

MICRO-PROGRAM VERSION	: VERS; 10202	TOT.MEM.CONF.; 3/4 MB	
LAST BACK-WIRING ECO	: ECO 500-45	~~CACHE SIZE; 1/4 ONLY!~~	
PROM VERSION	: 39XXB		

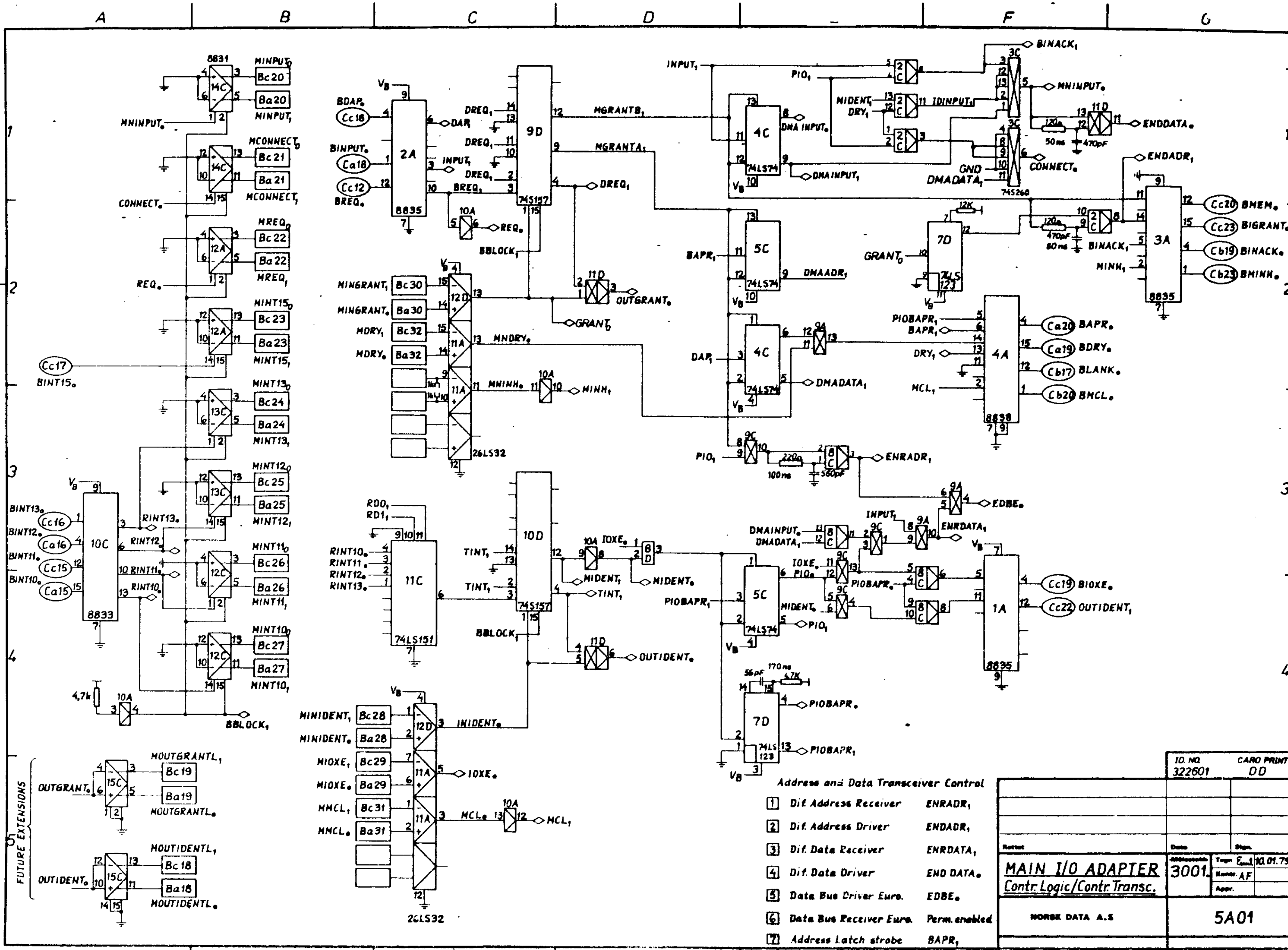
ND—100

LOGIC DIAGRAMS

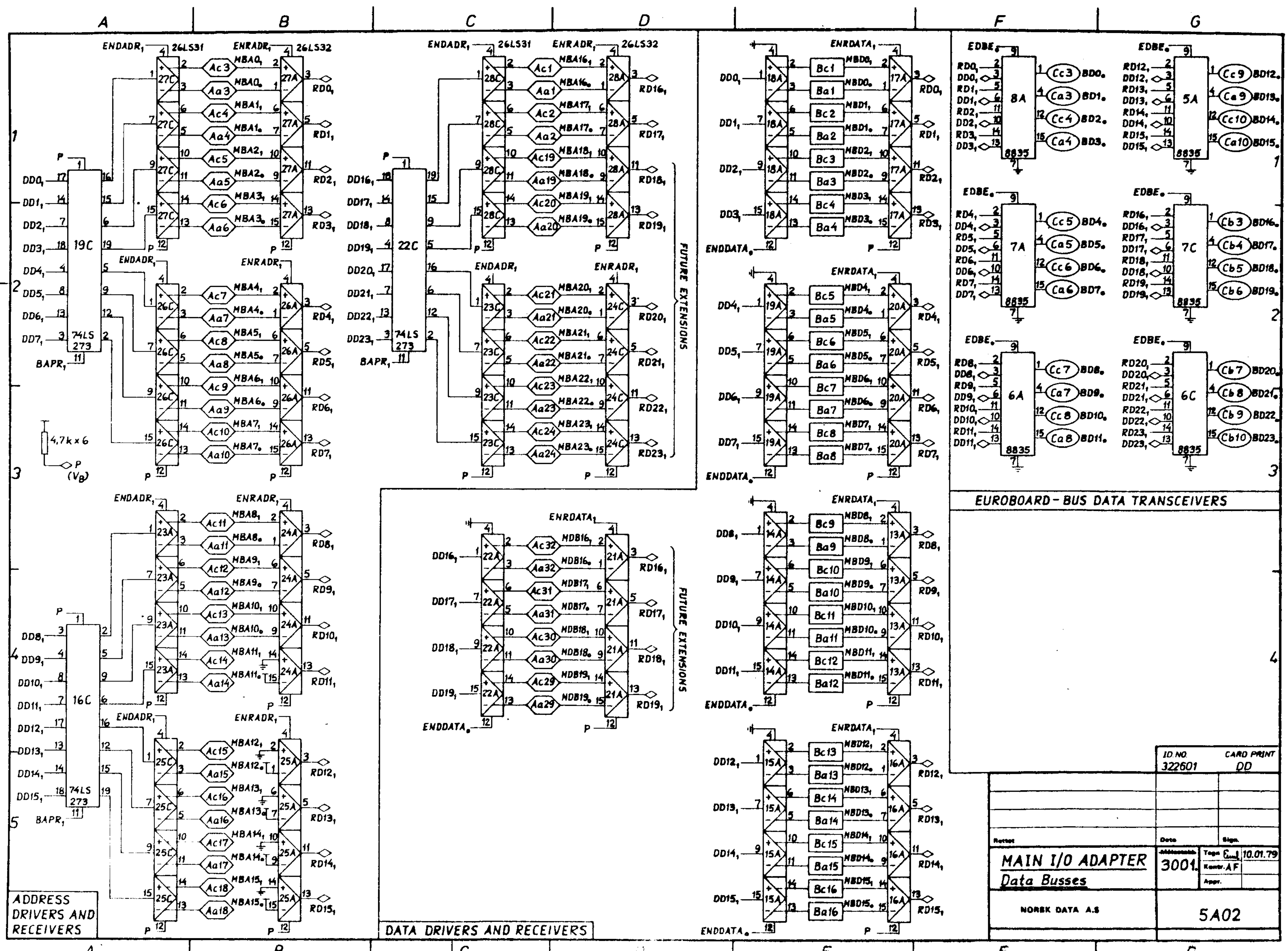
Including the most frequently used

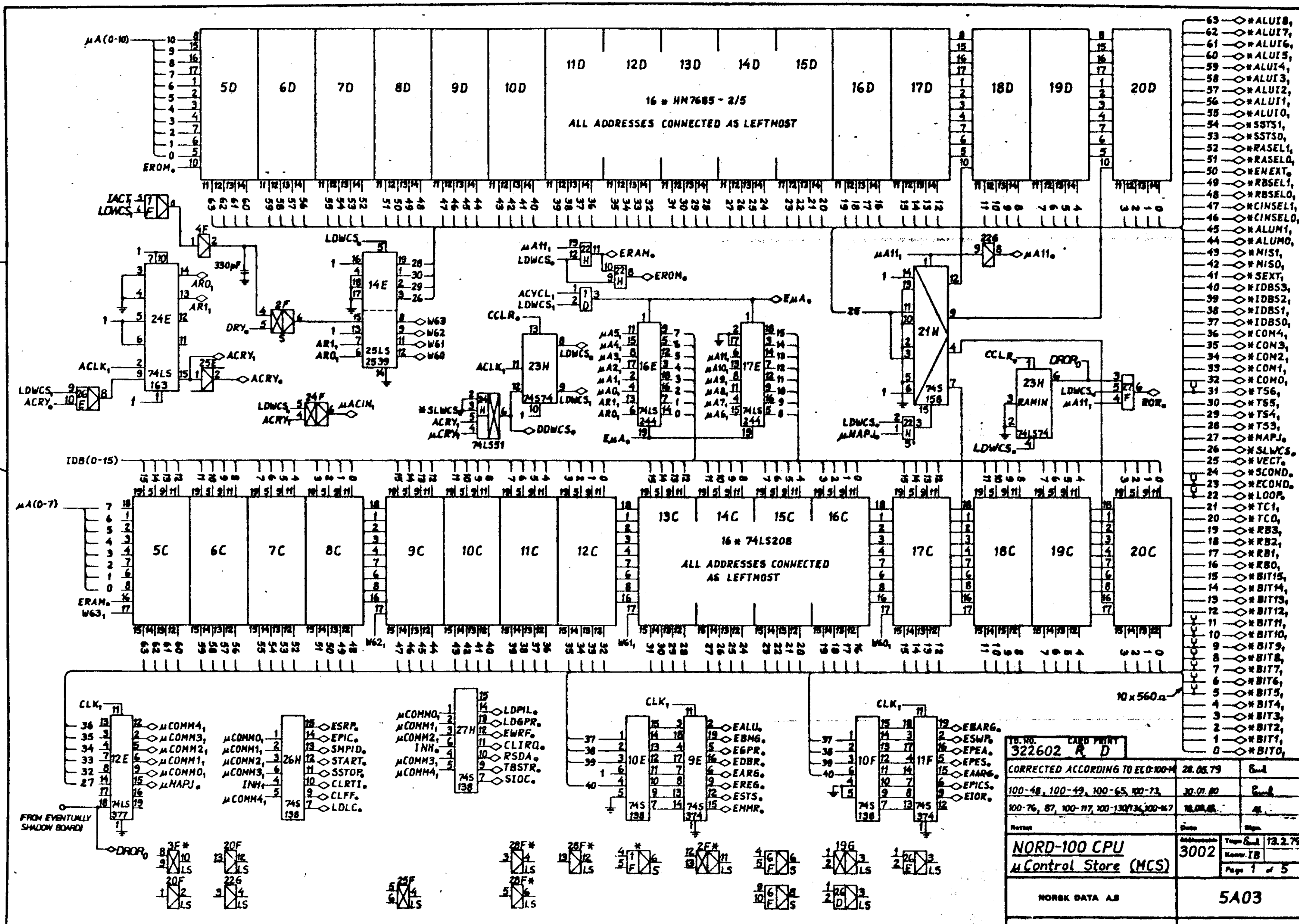
NORD-10 I/O interfaces.

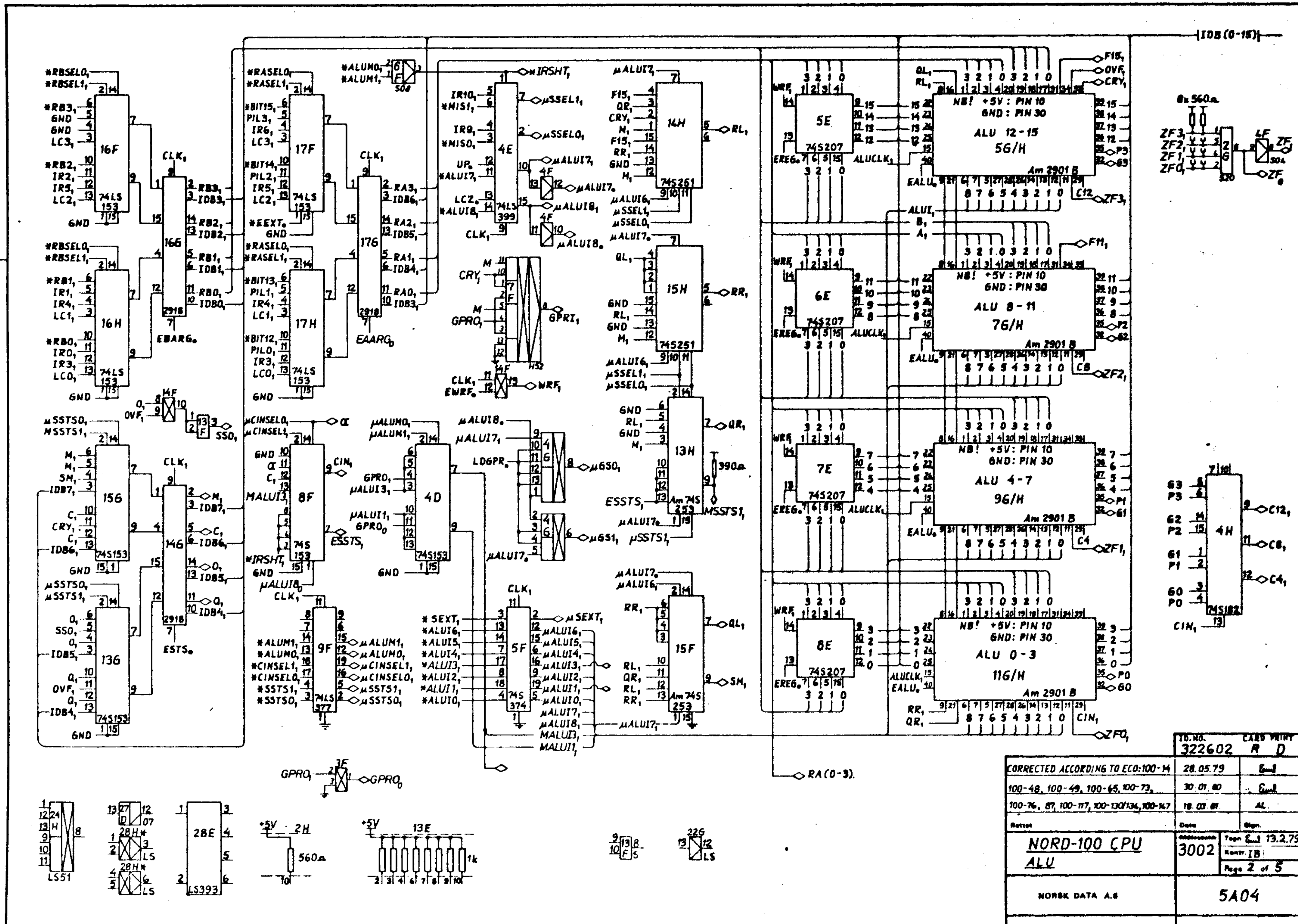
Look behing 3009 diagram.



Address and Data Transceiver Control
1 Dif. Address Receiver ENRADR1
2 Dif. Address Driver ENDADR1
3 Dif. Data Receiver ENRDATA1
4 Dif. Data Driver END DATA0
5 Data Bus Driver Euro. EDBE0
6 Data Bus Receiver Euro. Perm. enabled
7 Address Latch strobe BAPR1
FUTURE EXTENSIONS
ID. NO. 322601
CARD PRINT DD
MAIN I/O ADAPTER
Contr. Logic/Contr. Transc.
3001
10.01.79
AF
NORSK DATA A.S
5A01


ADDRESS DRIVERS AND RECEIVERS
DATA DRIVERS AND RECEIVERS
FUTURE EXTENSIONS
EUROBOARD - BUS DATA TRANSCEIVERS
ID NO. 322601
CARD PRINT DD
MAIN I/O ADAPTER
Data Busses
3001
10.01.79
AF
NORSK DATA A.S
5A02


16 * HM7685 - 2/5
ALL ADDRESSES CONNECTED AS LEFTMOST
16 * 74LS208
ALL ADDRESSES CONNECTED AS LEFTMOST
µA(0-10)
µA(0-7)
IDB(0-15)
10 x 560Ω
FROM EVENTUALLY SHADOW BOARD
TB. NO. 322602
CARD PRINT R D
CORRECTED ACCORDING TO ECO:100-14 28.05.79
100-48, 100-49, 100-65, 100-73, 30.01.80
100-76, 87, 100-117, 100-130/134, 100-147
Rettet
Dato
Sign.
NORD-100 CPU
µ Control Store (MCS)
3002
Page 1 of 5
NORSK DATA A.S
5A03



ID. NO. 322602	CARD PRINT R D
CORRECTED ACCORDING TO ECO:100-14	28.05.79
100-48, 100-49, 100-65, 100-73,	30.01.80
100-76, 87, 100-117, 100-130/134, 100-147	18.03.81

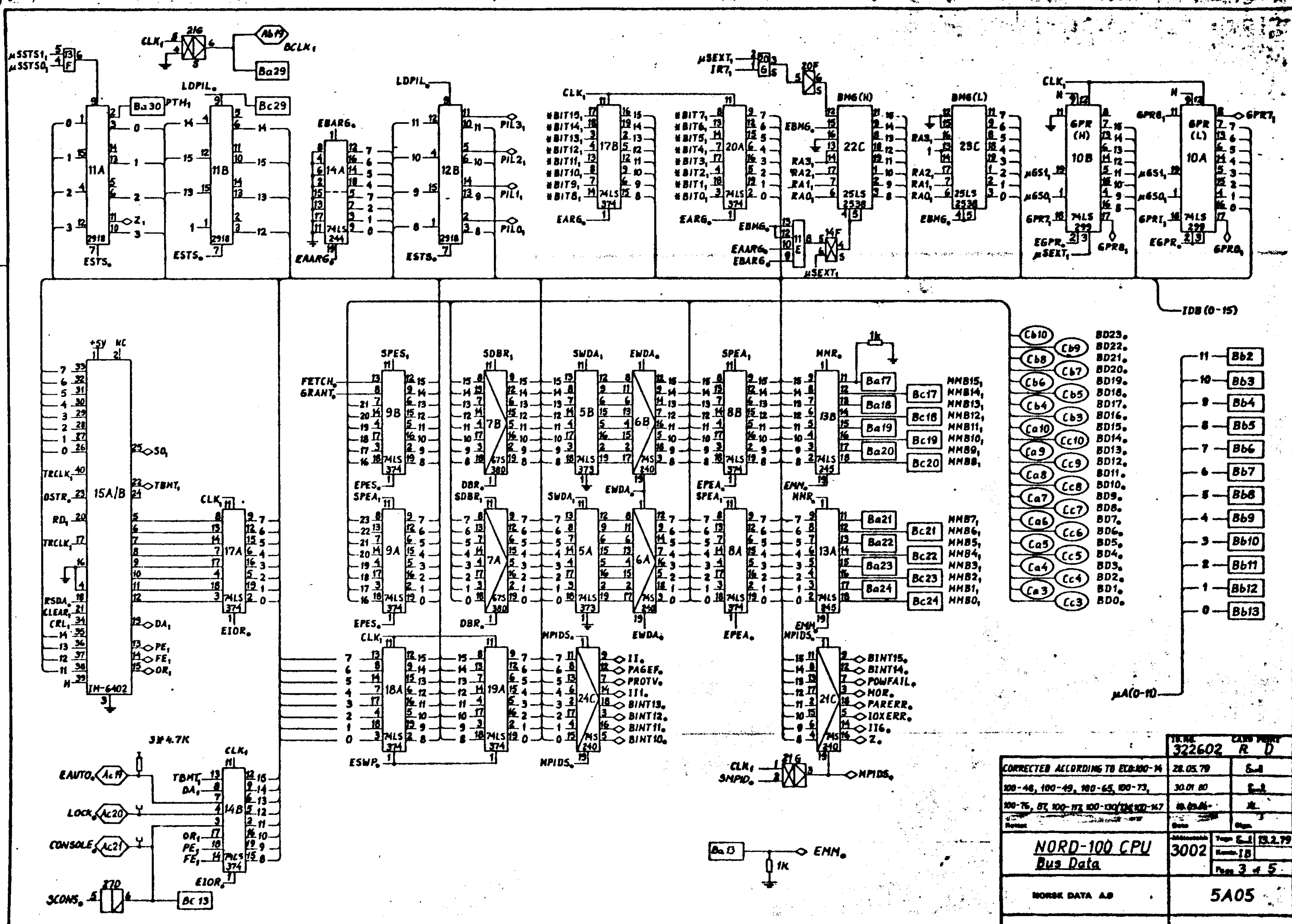
NORD-100 CPU
ALU

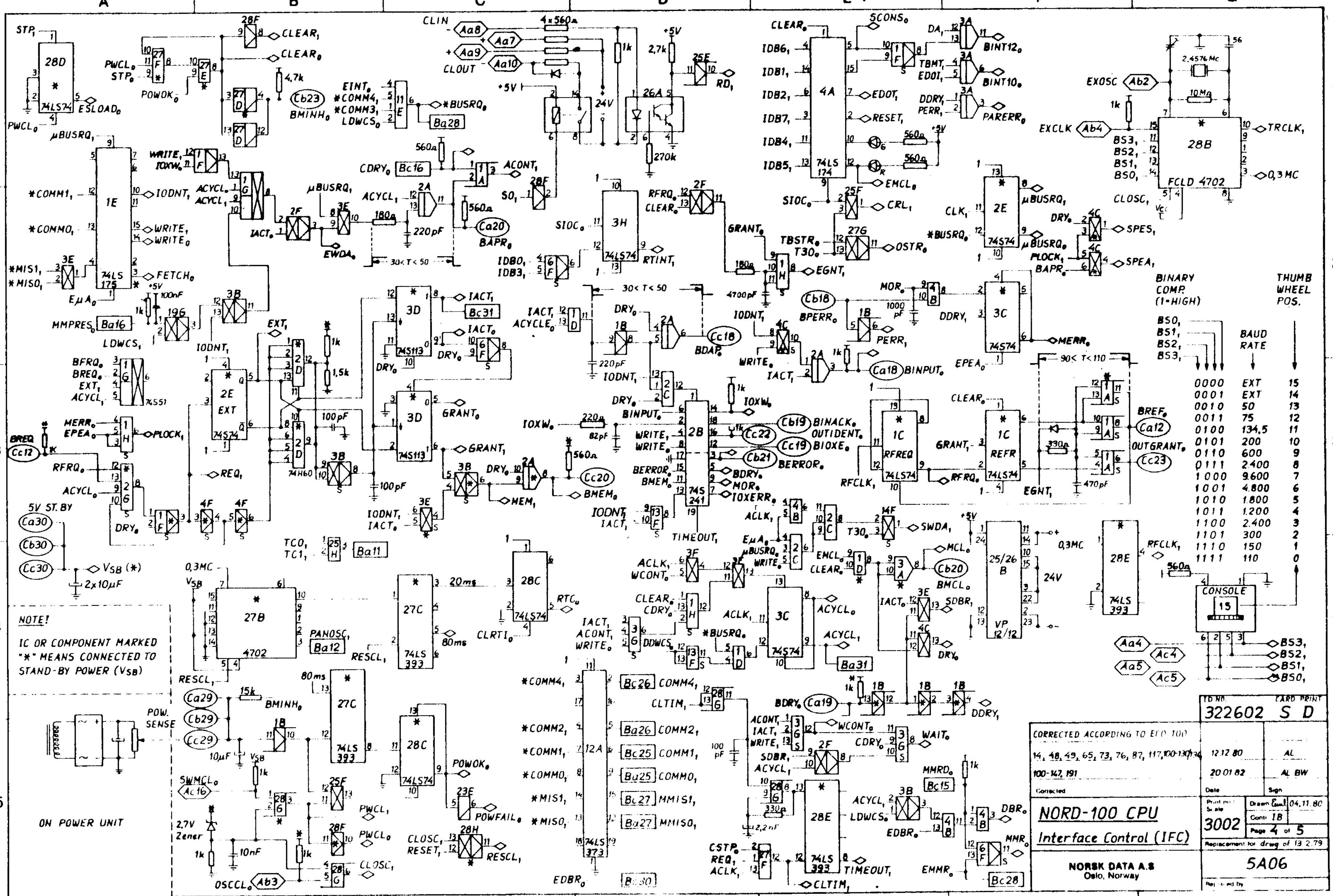
3002

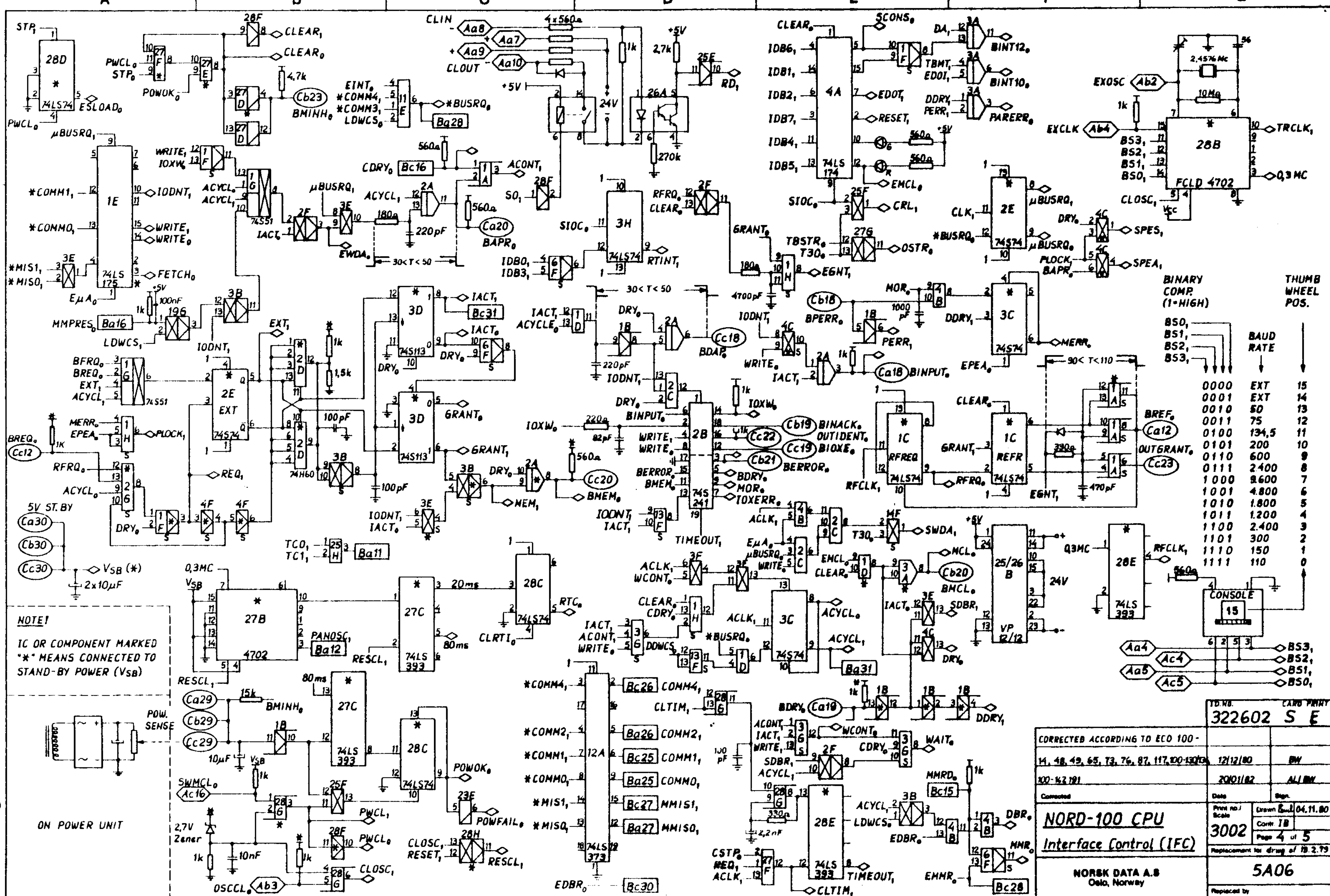
Page 2 of 5

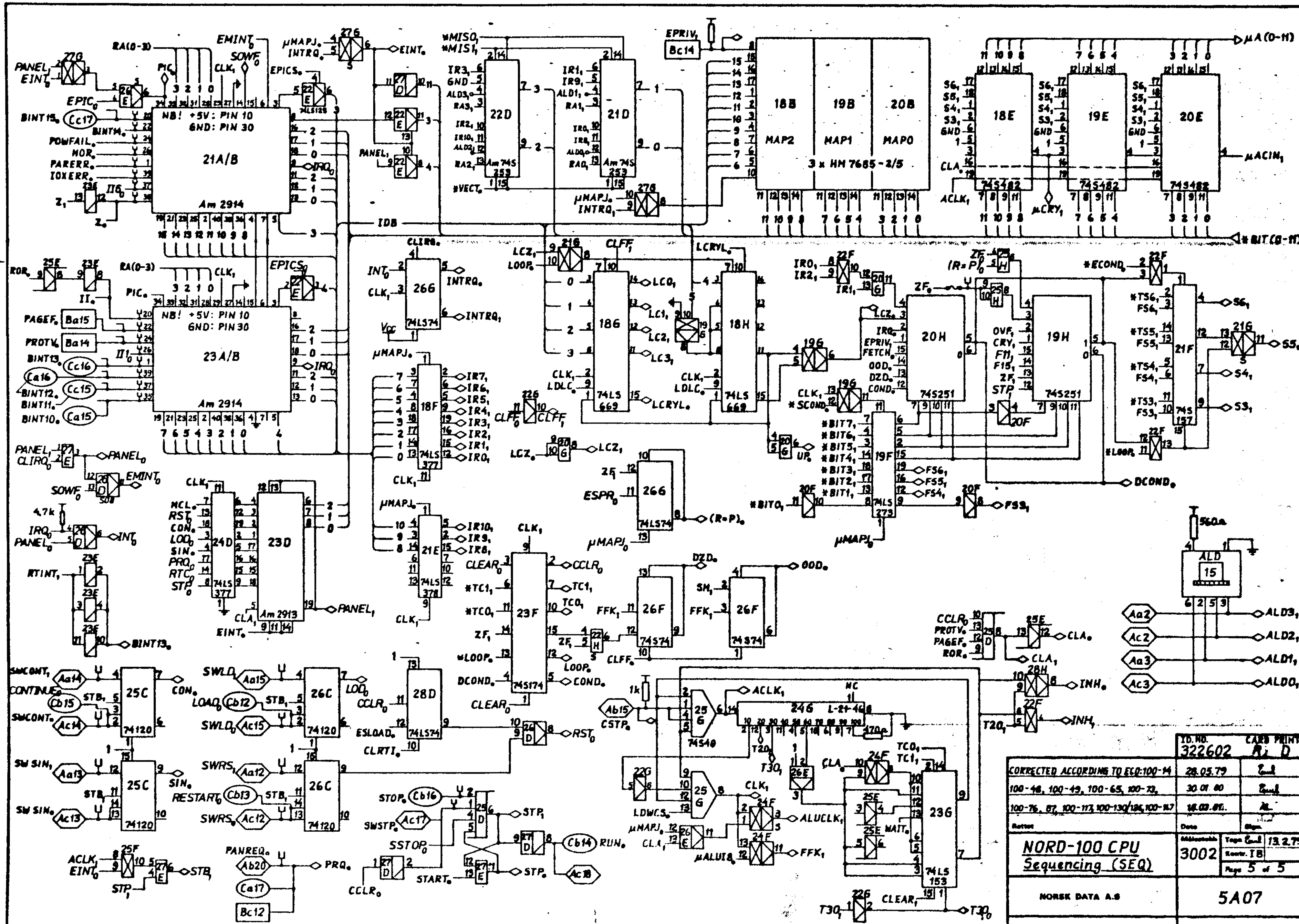
NORSK DATA A.S

5A04

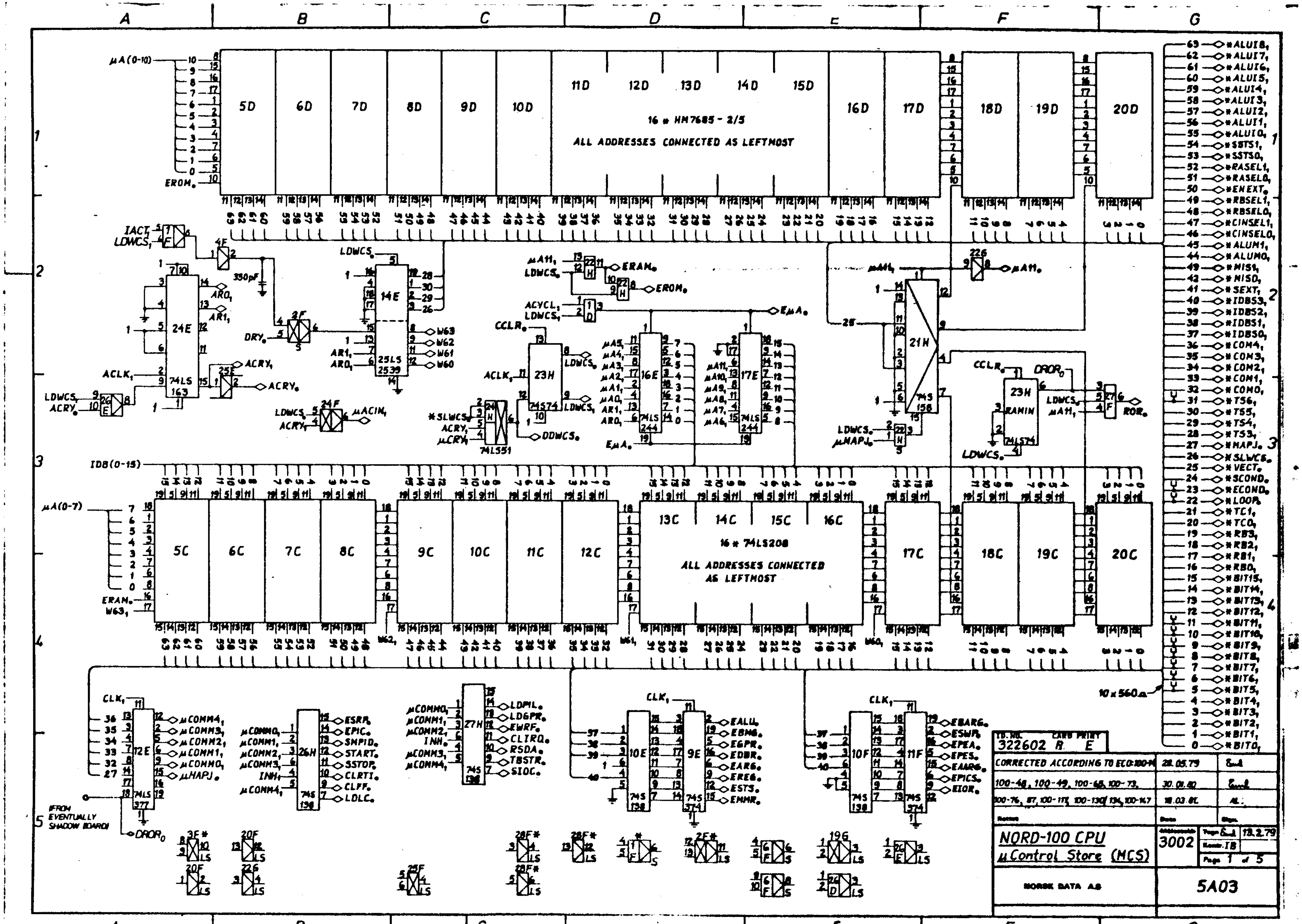

322602
R D
CORRECTED ACCORDING TO ECO 100-14
28.05.79
100-48, 100-49, 100-65, 100-73,
30.01.80
NORD-100 CPU
Bus Data
3002
13.2.79
18
3 of 5
NORSK DATA A.S
5A05


NOTE!
IC OR COMPONENT MARKED "*" MEANS CONNECTED TO STAND-BY POWER (VSB)
ON POWER UNIT
BINARY COMP. (1=HIGH)
BAUD RATE
THUMB WHEEL POS.
0000 EXT 15
0001 EXT 14
0010 50 13
0011 75 12
0100 134,5 11
0101 200 10
0110 600 9
0111 2.400 8
1000 9.600 7
1001 4.800 6
1010 1.800 5
1011 1.200 4
1100 2.400 3
1101 300 2
1110 150 1
1111 110 0
CONSOLE
CORRECTED ACCORDING TO ECO 100
14, 48, 49, 65, 73, 76, 87, 117, 100-130
100-147, 191
12.12.80 AL
20.01.82 AL BW
NORD-100 CPU
Interface Control (IFC)
NORSK DATA A.S
Oslo, Norway
322602 S D
3002
Page 4 of 5
04.11.80
5A06

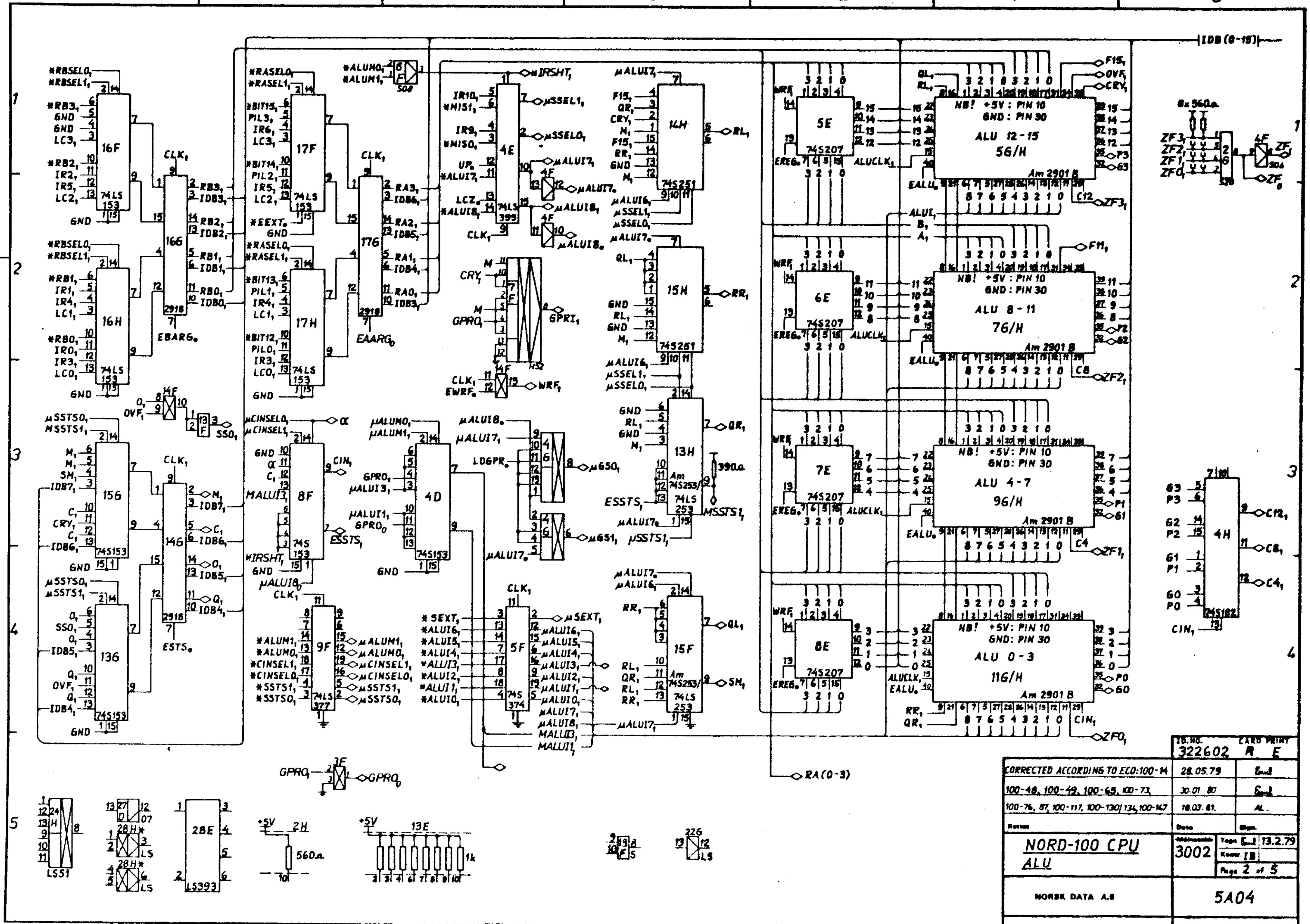

NOTE!
IC OR COMPONENT MARKED "*" MEANS CONNECTED TO STAND-BY POWER (VSB)
ON POWER UNIT
BINARY COMP. (1-HIGH)
BAUD RATE
THUMB WHEEL POS.
0000 EXT 15
0001 EXT 14
0010 50 13
0011 75 12
0100 134,5 11
0101 200 10
0110 600 9
0111 2.400 8
1000 9.600 7
1001 4.800 6
1010 1.800 5
1011 1.200 4
1100 2.400 3
1101 300 2
1110 150 1
1111 110 0
CONSOLE
TD.NO. 322602 S E
CORRECTED ACCORDING TO ECO 100 - 14, 48, 49, 65, 73, 76, 87, 117, 100-130 12/12/80
100-142 191 20/01/82
NORD-100 CPU
Interface Control (IFC)
NORSK DATA A.S
Oslo, Norway
3002
Page 4 of 5
Replacement for drwg of 19.2.79
5A06

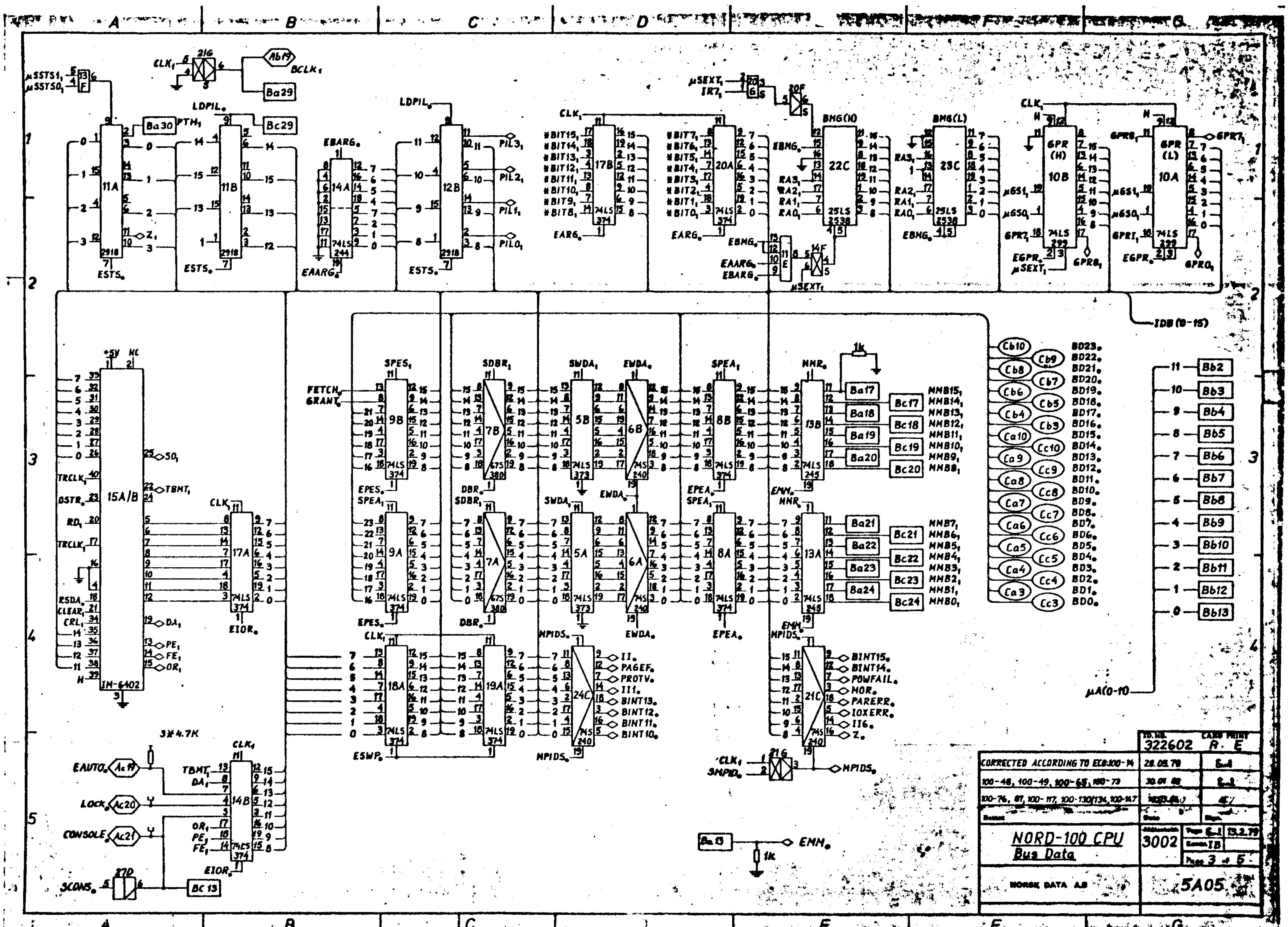


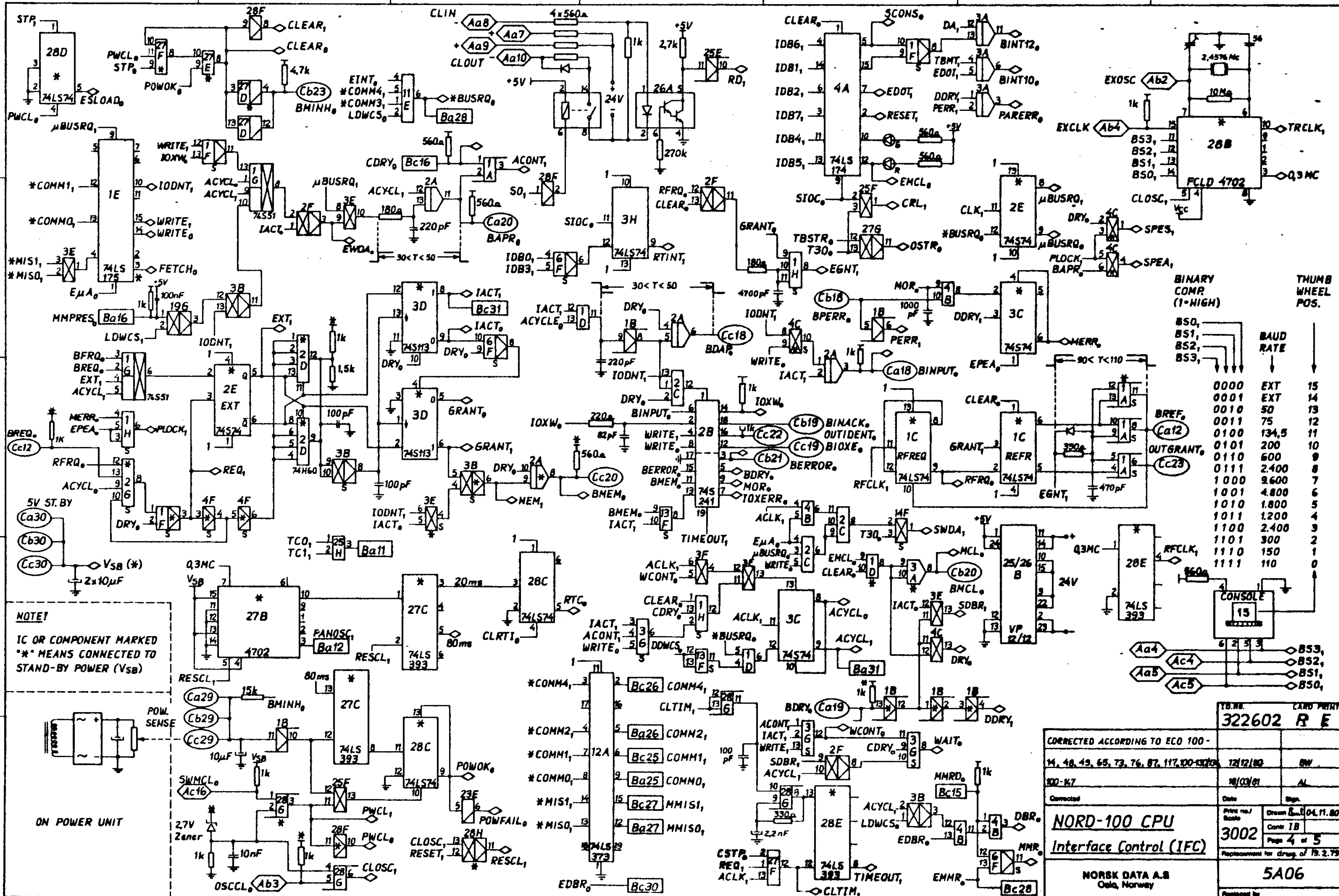
NORD-100 CPU
Sequencing (SEQ)
NORSK DATA A.S
5A07
3002
322602
CORRECTED ACCORDING TO ECO:100-14
28.05.79
100-48, 100-49, 100-65, 100-73,
30.01.80
100-76, 87, 100-113, 100-130/136, 100-137
18.02.81
Page 5 of 5

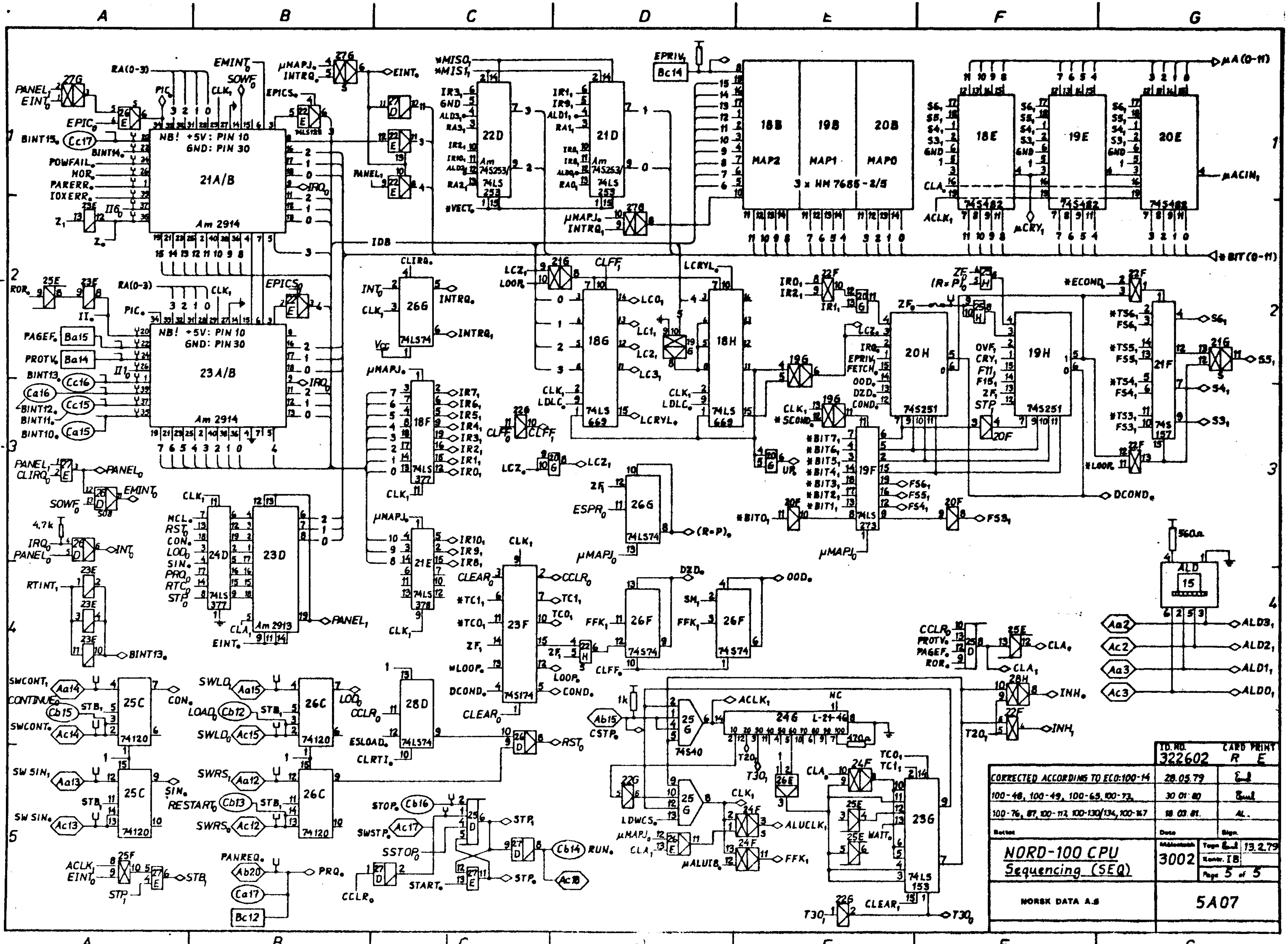


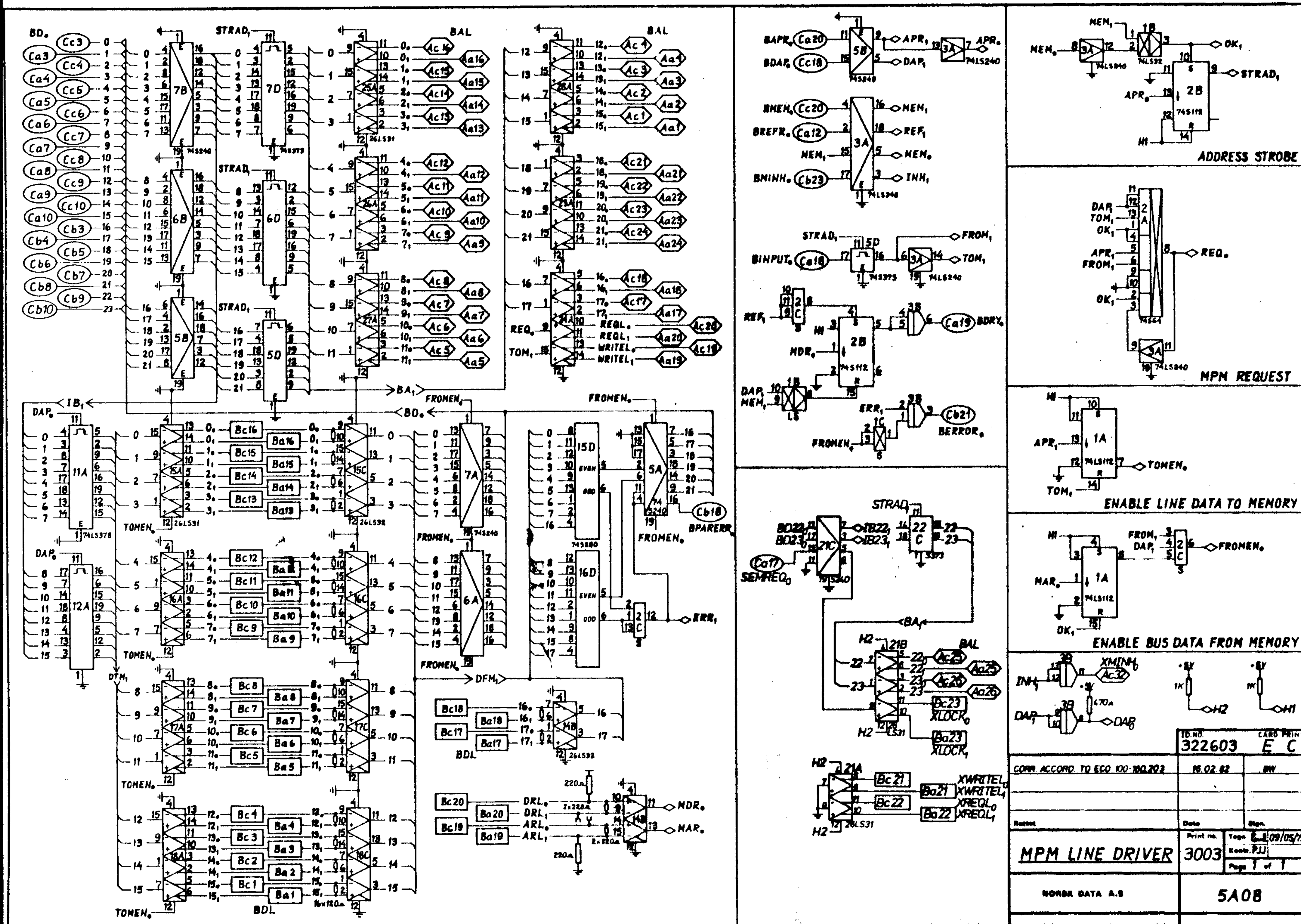
NORD-100 CPU
μ Control Store (MCS)
5A03
3002
NORSK DATA A.S
322602 R E
CORRECTED ACCORDING TO ECO-100-H
16 * HM7685 - 2/5
ALL ADDRESSES CONNECTED AS LEFTMOST
16 * 74LS208
ALL ADDRESSES CONNECTED AS LEFTMOST
10 x 560Ω
FROM EVENTUALLY SHADOW BOARD

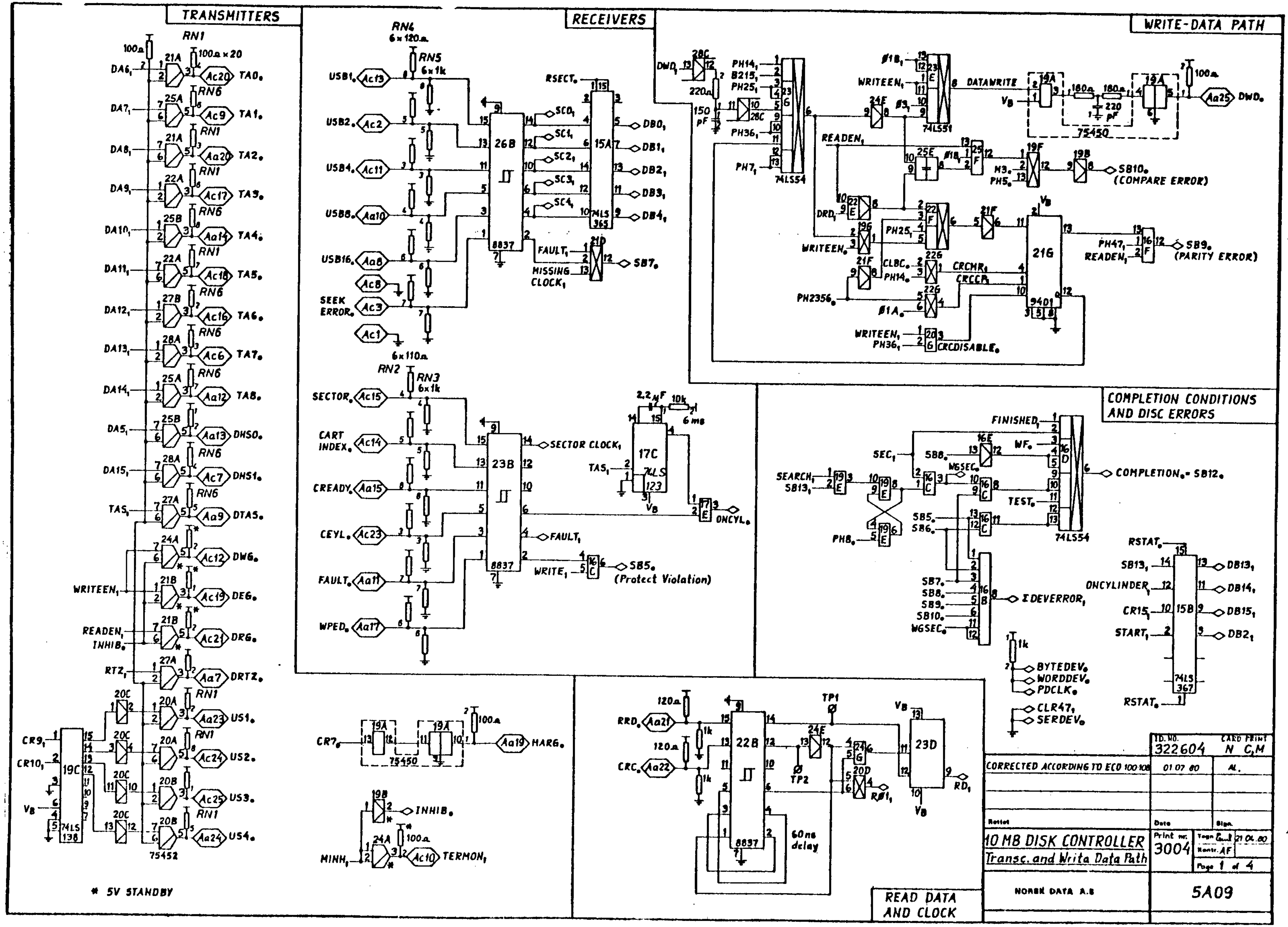

ALU 12-15
56/H
Am 2901 B
NB! +5V : PIN 10
GND : PIN 30
ALU 8-11
76/H
ALU 4-7
96/H
ALU 0-3
116/H
5E
6E
7E
8E
74S207
14H
15H
74S251
13H
15F
Am 74S253/ 74LS 253
4E
74LS 399
16F
16H
17F
17H
74LS 153
166
176
146
2918
156
136
74S153
8F
74S 153
4D
9F
74LS 377
5F
74S 374
4H
74S182
28E
LS393
LS51
13E
IDB (0-15)
RA (0-3)
8x 560Ω
390Ω
560Ω
1k
CORRECTED ACCORDING TO ECO:100-14
28.05.79
100-48, 100-49, 100-65, 100-73,
30.01.80
100-76, 87, 100-117, 100-130/134, 100-147
18.03.81.
322602
R E
NORD-100 CPU
ALU
3002
13.2.79
Page 2 of 5
NORSK DATA A.S
5A04

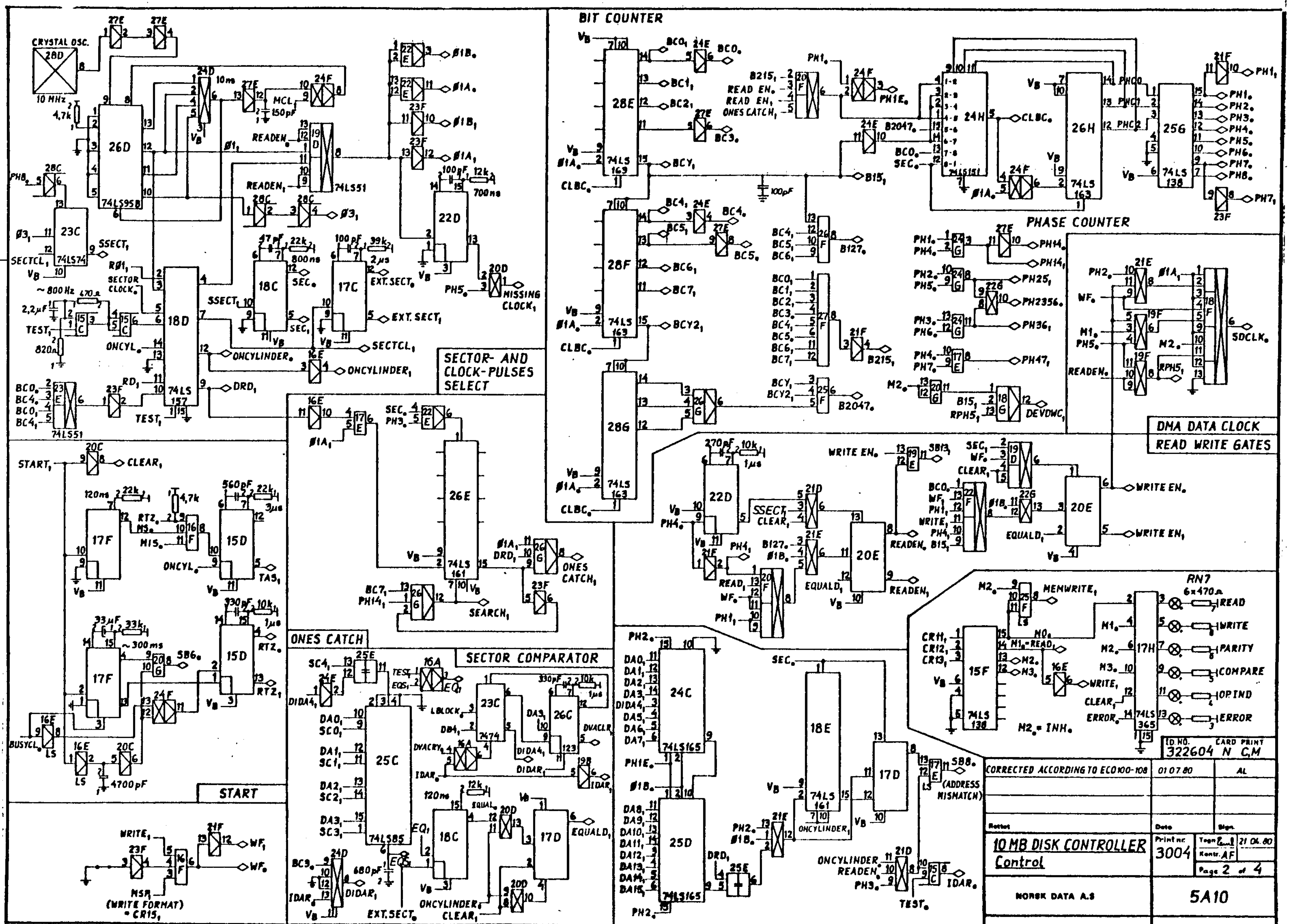

CORRECTED ACCORDING TO ECO 100-14
100-48, 100-49, 100-65, 100-73
322602
R. E
NORD-100 CPU
Bus Data
NORSK DATA A.S
3002
5A05

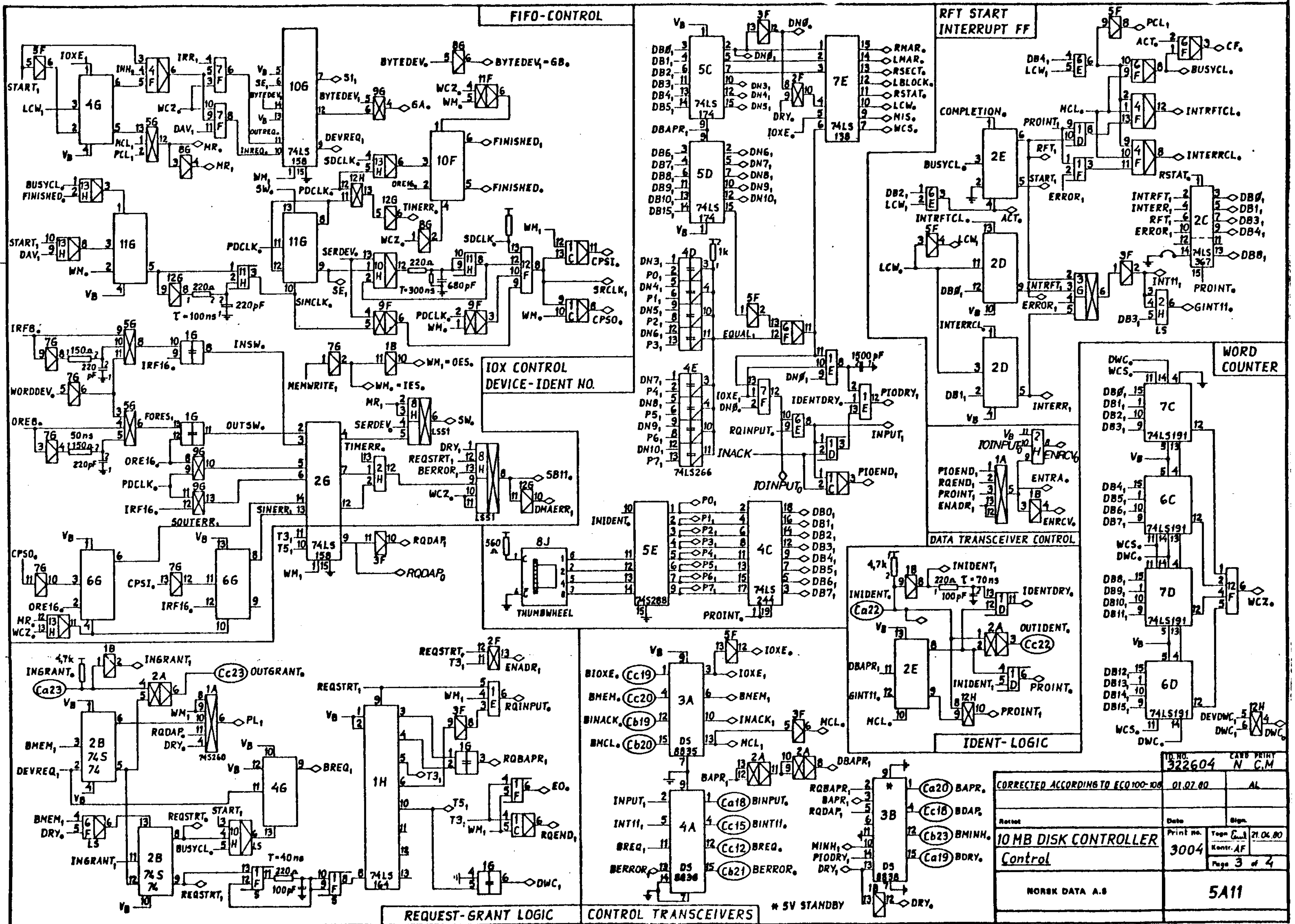

NORD-100 CPU
Interface Control (IFC)
NORSK DATA A.S
Oslo, Norway
322602 R E
3002
5A06
CORRECTED ACCORDING TO ECO 100 -
14, 48, 49, 65, 73, 76, 87, 117, 100-130
100-147
NOTE!
IC OR COMPONENT MARKED "*" MEANS CONNECTED TO STAND-BY POWER (V_{SB})
ON POWER UNIT
BINARY COMP. (1=HIGH)
BAUD RATE
THUMB WHEEL POS.
CONSOLE

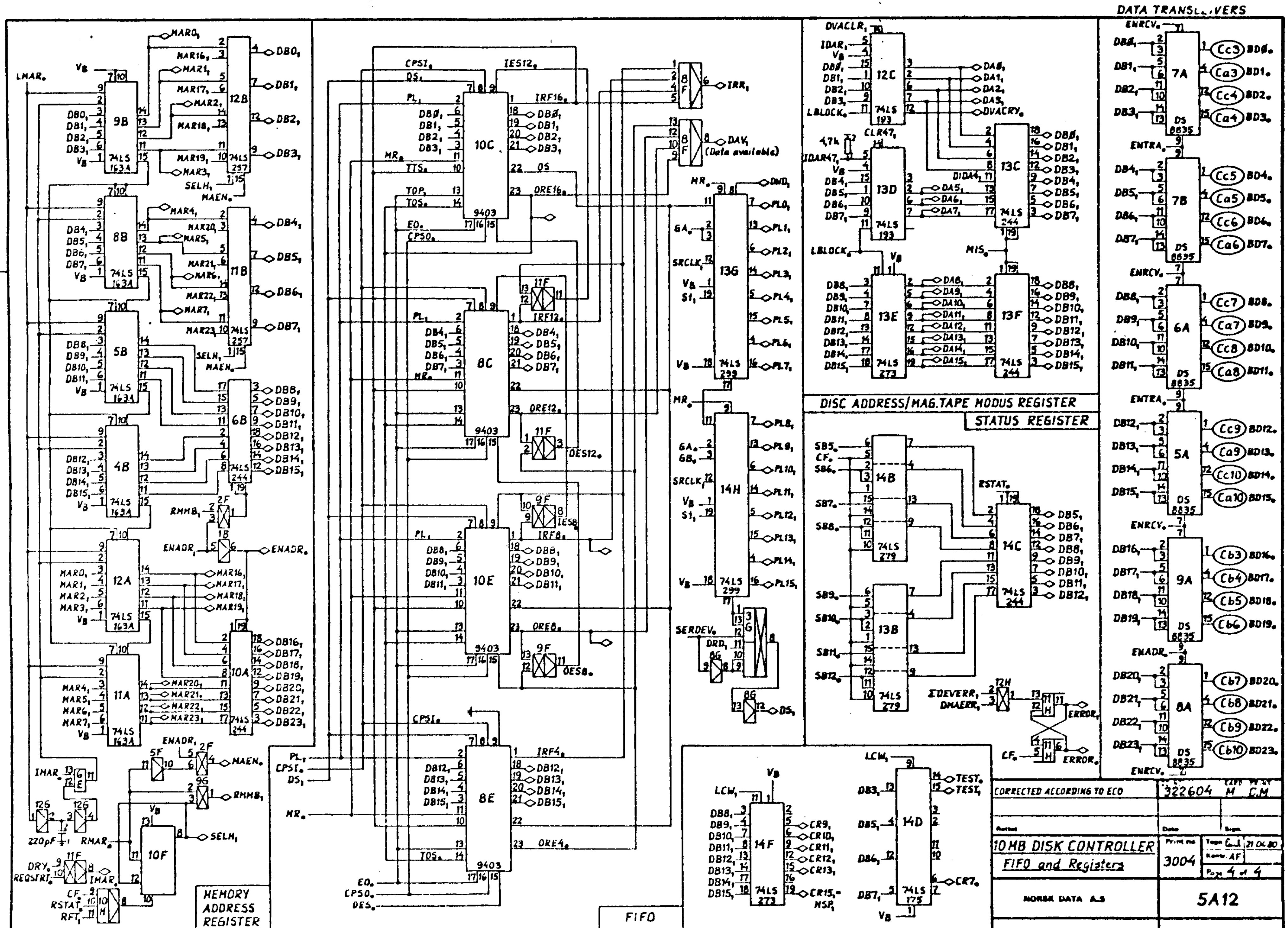

NORD-100 CPU
Sequencing (SEQ)
NORSK DATA A.S
3002
5A07
ID. NO. 322602
CARD PRINT R E
CORRECTED ACCORDING TO ECO:100-14 28.05.79
100-48, 100-49, 100-65, 100-73, 30 01 80
100-76, 87, 100-112, 100-130/134, 100-147 18 03 81
Page 5 of 5
13.2.79

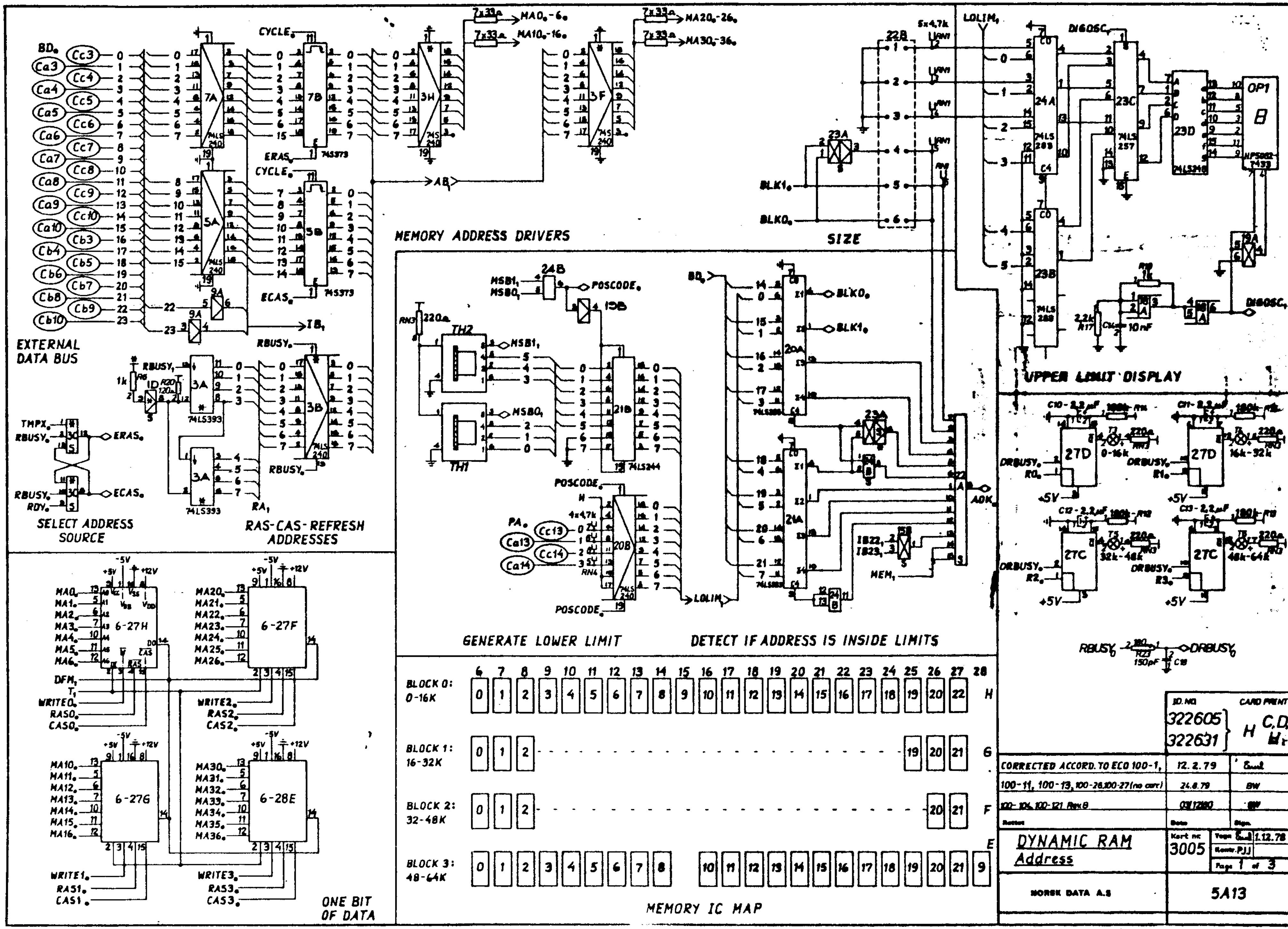

ADDRESS STROBE
MPM REQUEST
ENABLE LINE DATA TO MEMORY
ENABLE BUS DATA FROM MEMORY
BAL
BDL
322603
E C
CORR ACCORD TO ECO 100-180.203
16.02.82
MPM LINE DRIVER
3003
09/05/79
Page 1 of 1
NORSK DATA A.S
5A08


TRANSMITTERS
RECEIVERS
WRITE-DATA PATH
COMPLETION CONDITIONS AND DISC ERRORS
READ DATA AND CLOCK
* 5V STANDBY
CORRECTED ACCORDING TO ECO 100108
01 07 80
ID. NO. 322604
CARD PRINT N C,M
10 MB DISK CONTROLLER
Transc. and Write Data Path
Print nr. 3004
Page 1 of 4
NORSK DATA A.S
5A09

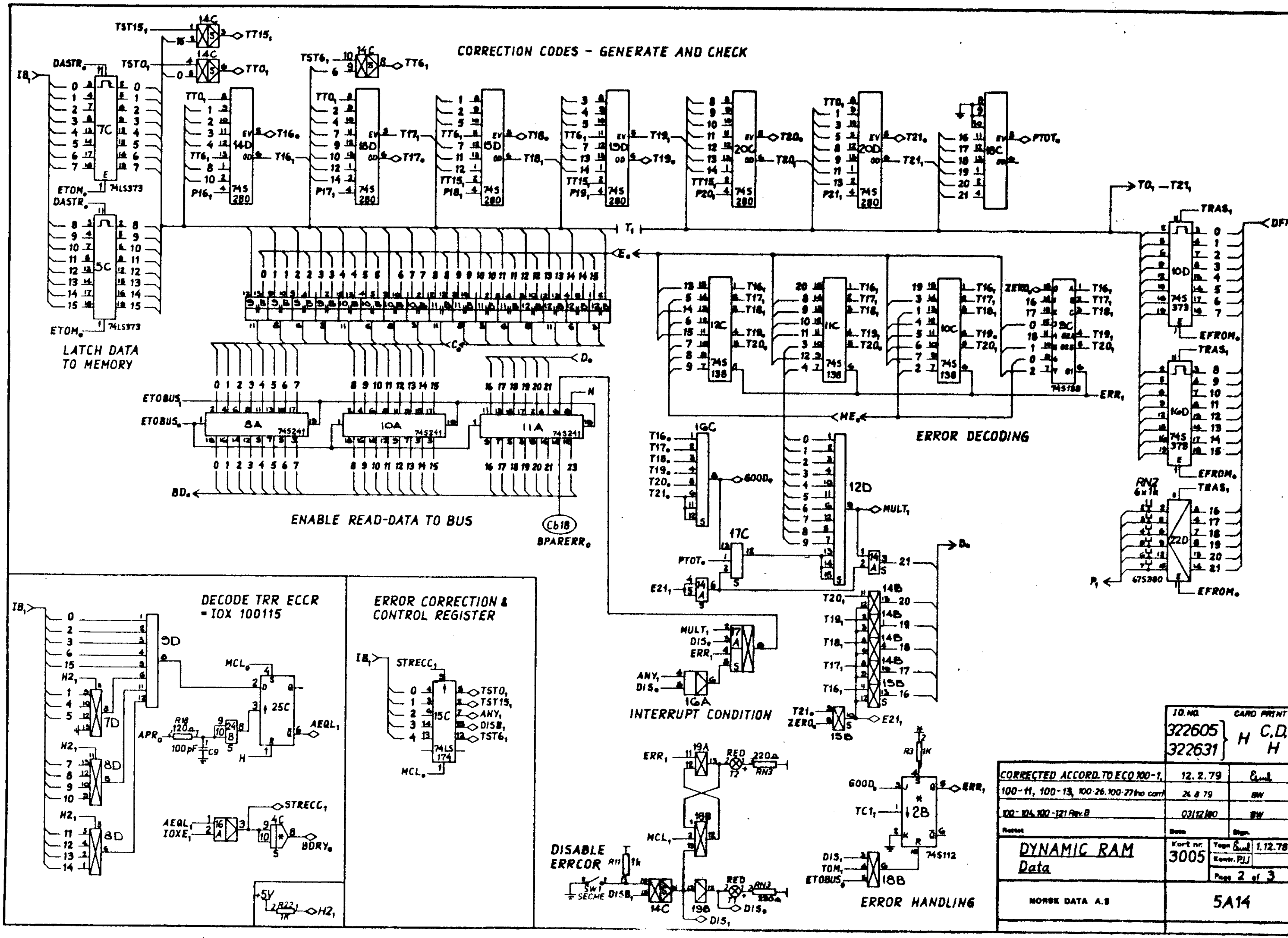

BIT COUNTER
PHASE COUNTER
DMA DATA CLOCK
READ WRITE GATES
SECTOR- AND CLOCK-PULSES SELECT
ONES CATCH
SECTOR COMPARATOR
START
CRYSTAL OSC.
RN7 6x470Ω
ID.NO. 322604 N CM
CARD PRINT
CORRECTED ACCORDING TO ECO100-108 01 07 80 AL
10 MB DISK CONTROLLER
Control
Print nr. 3004
21.04.80
Page 2 of 4
NORSK DATA A.S
5A10

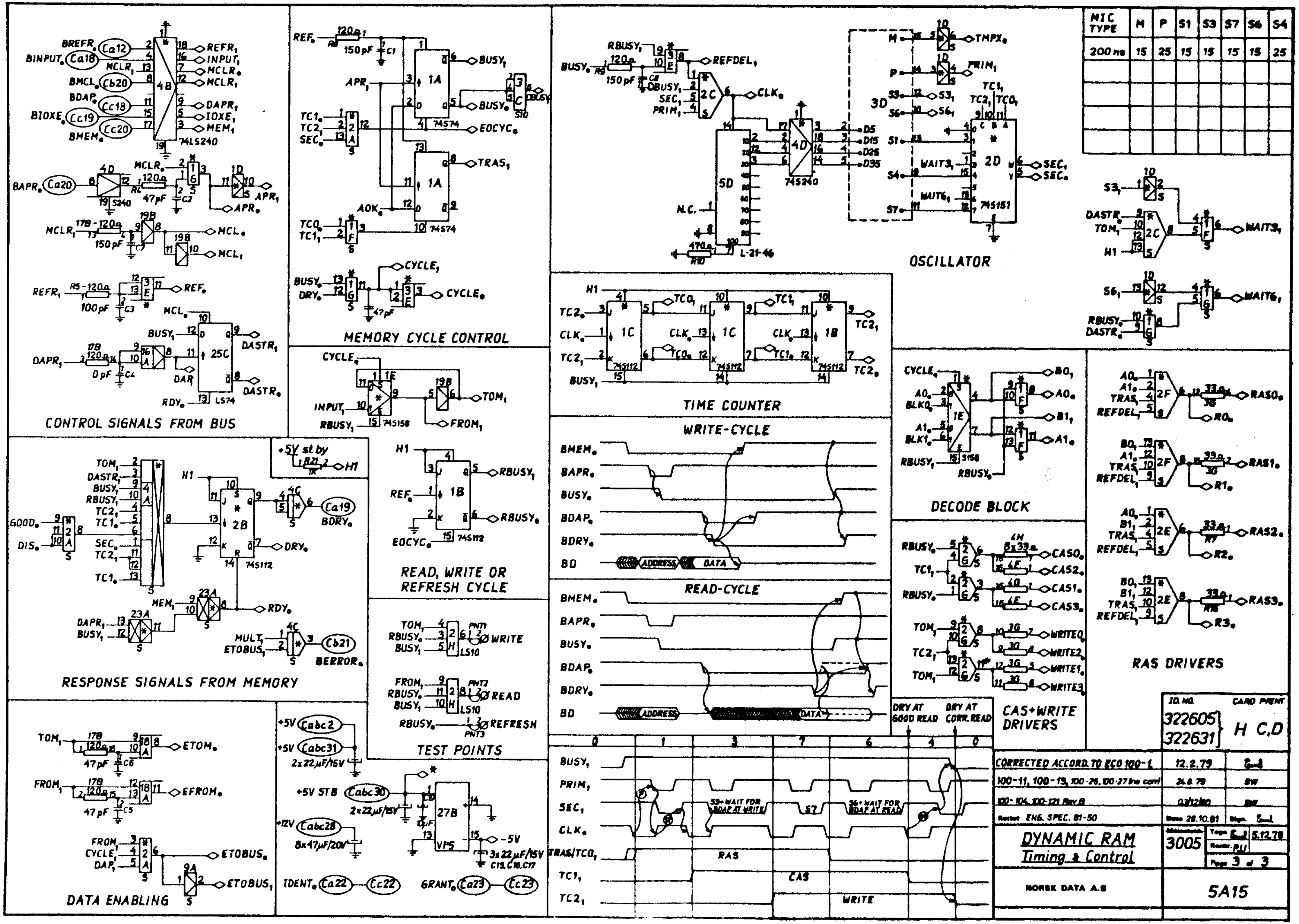

FIFO-CONTROL
RFT START
INTERRUPT FF
WORD
COUNTER
IOX CONTROL
DEVICE-IDENT NO.
DATA TRANSCEIVER CONTROL
IDENT-LOGIC
REQUEST-GRANT LOGIC
CONTROL TRANSCEIVERS
* 5V STANDBY
THUMBWHEEL
ID. NO. 322604
CARD PRINT N C.M
CORRECTED ACCORDING TO ECO 100-108 01.02.80 AL
10 MB DISK CONTROLLER
Control
Print no. 3004
21.04.80
Page 3 of 4
NORSK DATA A.S
5A11

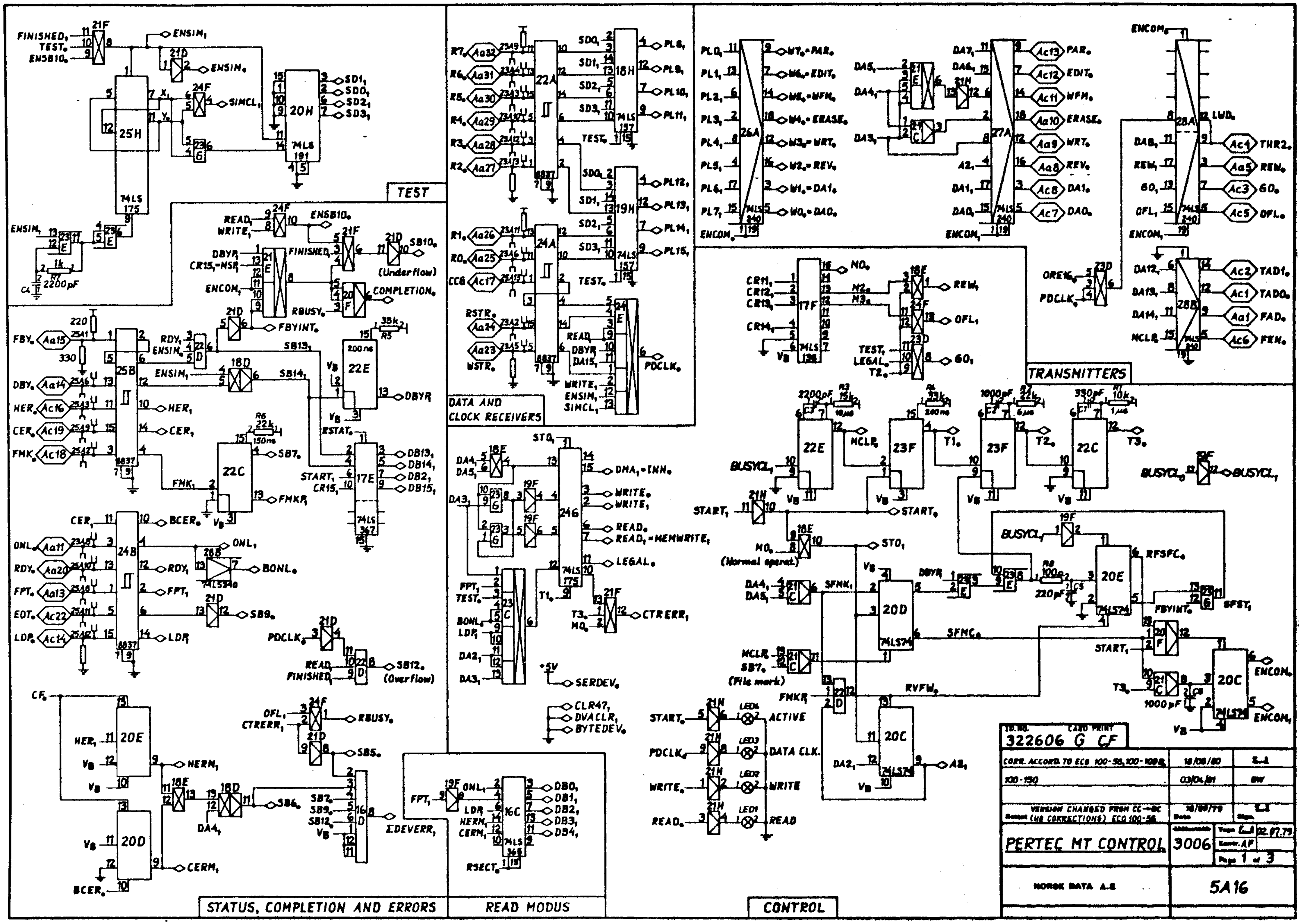

DATA TRANSCEIVERS
DISC ADDRESS/MAG.TAPE MODUS REGISTER
STATUS REGISTER
MEMORY ADDRESS REGISTER
FIFO
CORRECTED ACCORDING TO ECO
322604 M C.M
10 MB DISK CONTROLLER
FIFO and Registers
3004
Page 4 of 4
NORSK DATA A.S
5A12

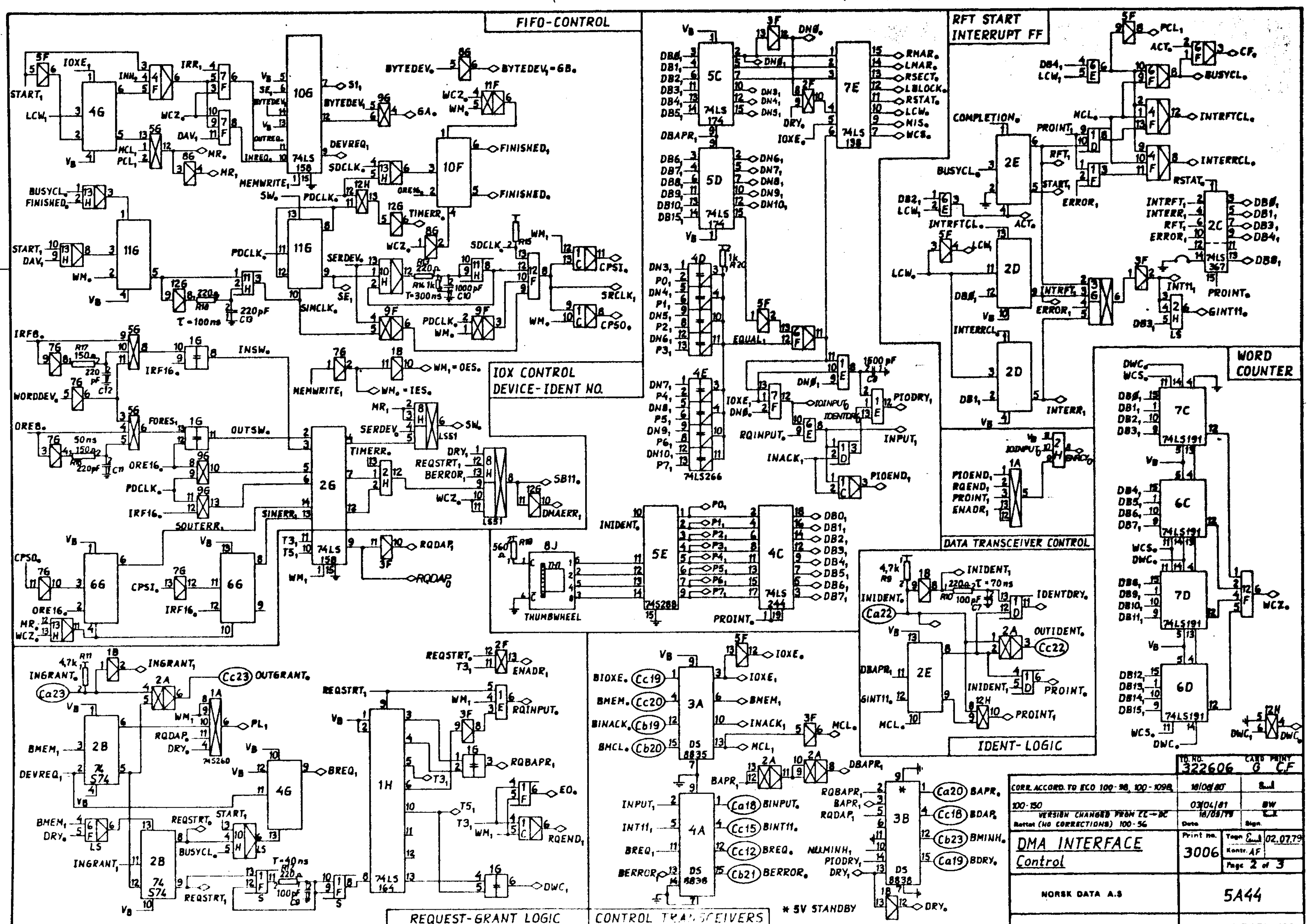


EXTERNAL DATA BUS
SELECT ADDRESS SOURCE
RAS-CAS-REFRESH ADDRESSES
MEMORY ADDRESS DRIVERS
SIZE
UPPER LIMIT DISPLAY
GENERATE LOWER LIMIT
DETECT IF ADDRESS IS INSIDE LIMITS
ONE BIT OF DATA
MEMORY IC MAP
BLOCK 0: 0-16K
BLOCK 1: 16-32K
BLOCK 2: 32-48K
BLOCK 3: 48-64K
ID.NO. 322605 322631
CARD PRINT H C,D
CORRECTED ACCORD. TO ECO 100-1, 12.2.79
100-11, 100-13, 100-26,100-27 (no corr) 24.8.79 BW
100-104, 100-121 Rev B
DYNAMIC RAM Address
Kort nr. 3005
1.12.78
PJJ
Page 1 of 3
NORSK DATA A.S
5A13

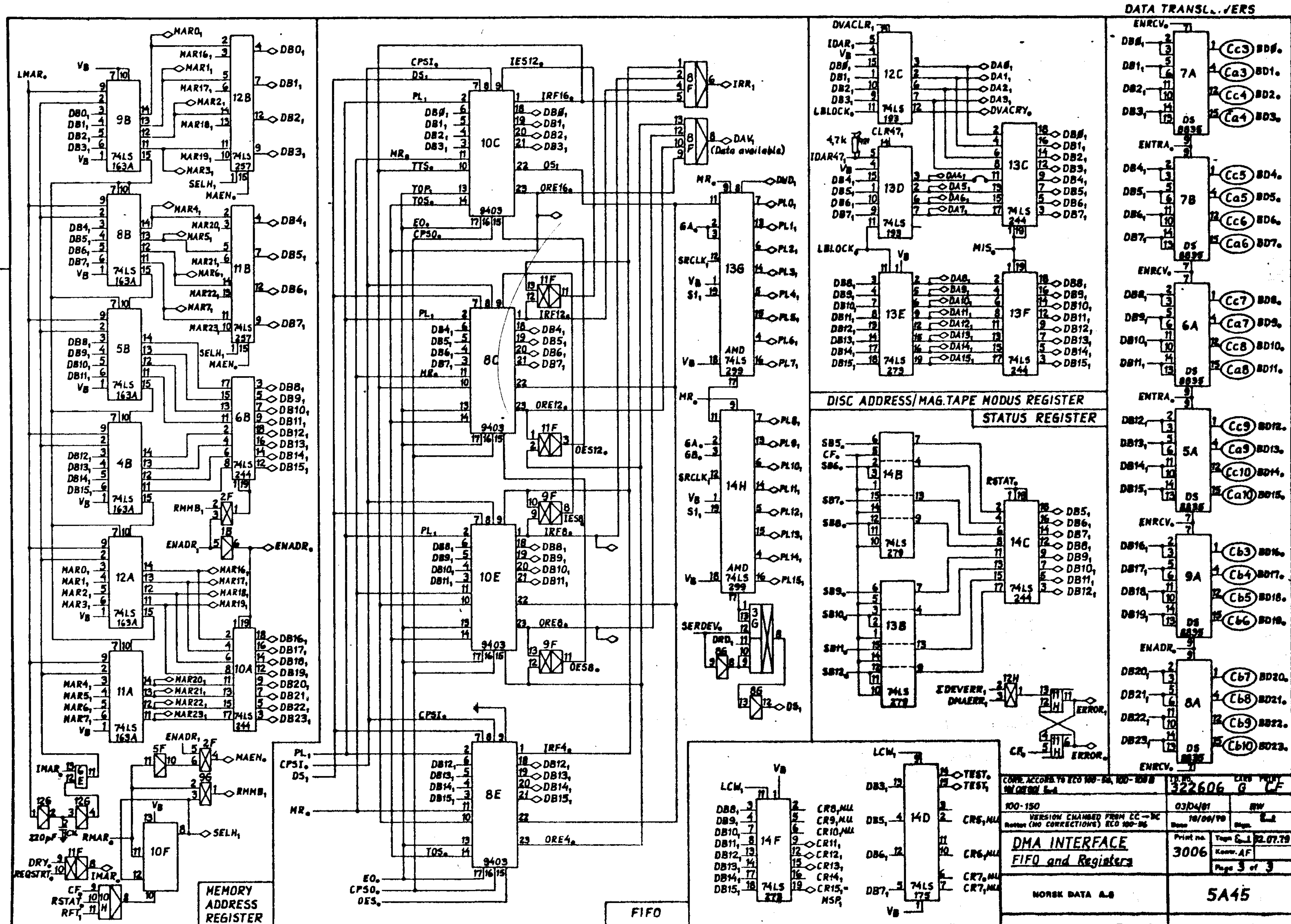

CORRECTION CODES - GENERATE AND CHECK
LATCH DATA TO MEMORY
ENABLE READ-DATA TO BUS
ERROR DECODING
INTERRUPT CONDITION
ERROR HANDLING
DISABLE ERRCOR
DECODE TRR ECCR = IOX 100115
ERROR CORRECTION & CONTROL REGISTER
ID.NO. 322605 322631 H C,D, H
CARD PRINT
CORRECTED ACCORD. TO ECO 100-1, 12.2.79
100-11, 100-13, 100-26, 100-27 (no corr) 24.8.79 BW
100-104, 100-121 Rev. B 03/12/80 BW
DYNAMIC RAM Data
Kort nr. 3005
1.12.78
Page 2 of 3
NORSK DATA A.S
5A14

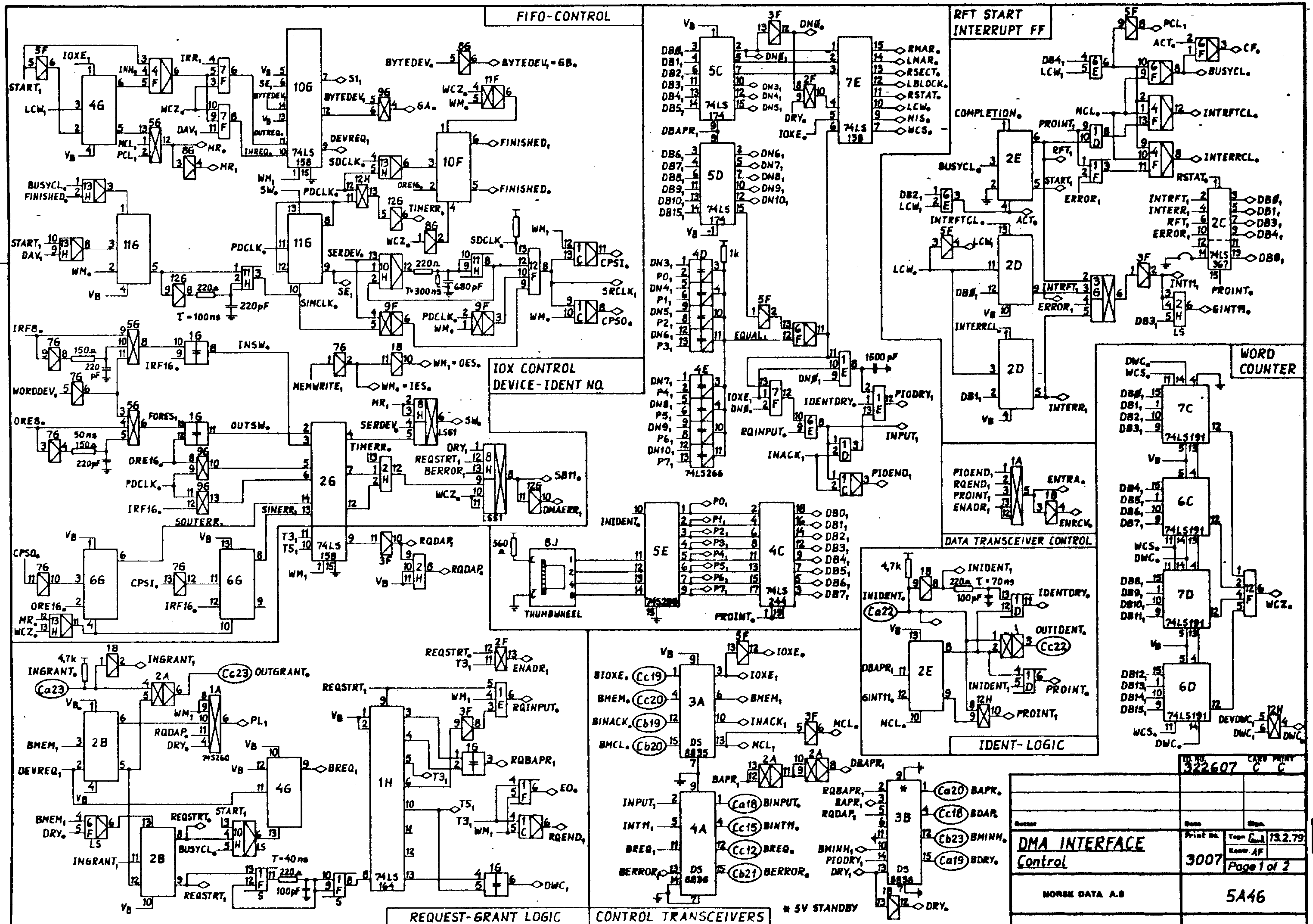

CONTROL SIGNALS FROM BUS
MEMORY CYCLE CONTROL
OSCILLATOR
TIME COUNTER
WRITE-CYCLE
READ-CYCLE
DECODE BLOCK
RAS DRIVERS
CAS+WRITE DRIVERS
READ, WRITE OR REFRESH CYCLE
RESPONSE SIGNALS FROM MEMORY
TEST POINTS
DATA ENABLING
MIC TYPE 200 ns
M 15
P 25
S1 15
S3 15
S7 15
S6 15
S4 25
ID. NO. 322605 322631
CARD PRINT H C,D
CORRECTED ACCORD. TO ECO 100-1
100-11, 100-13, 100-26, 100-27
100-104, 100-121 Rev B
ENG. SPEC. 81-50
DYNAMIC RAM
Timing & Control
NORSK DATA A.S
3005
Page 3 of 3
5A15

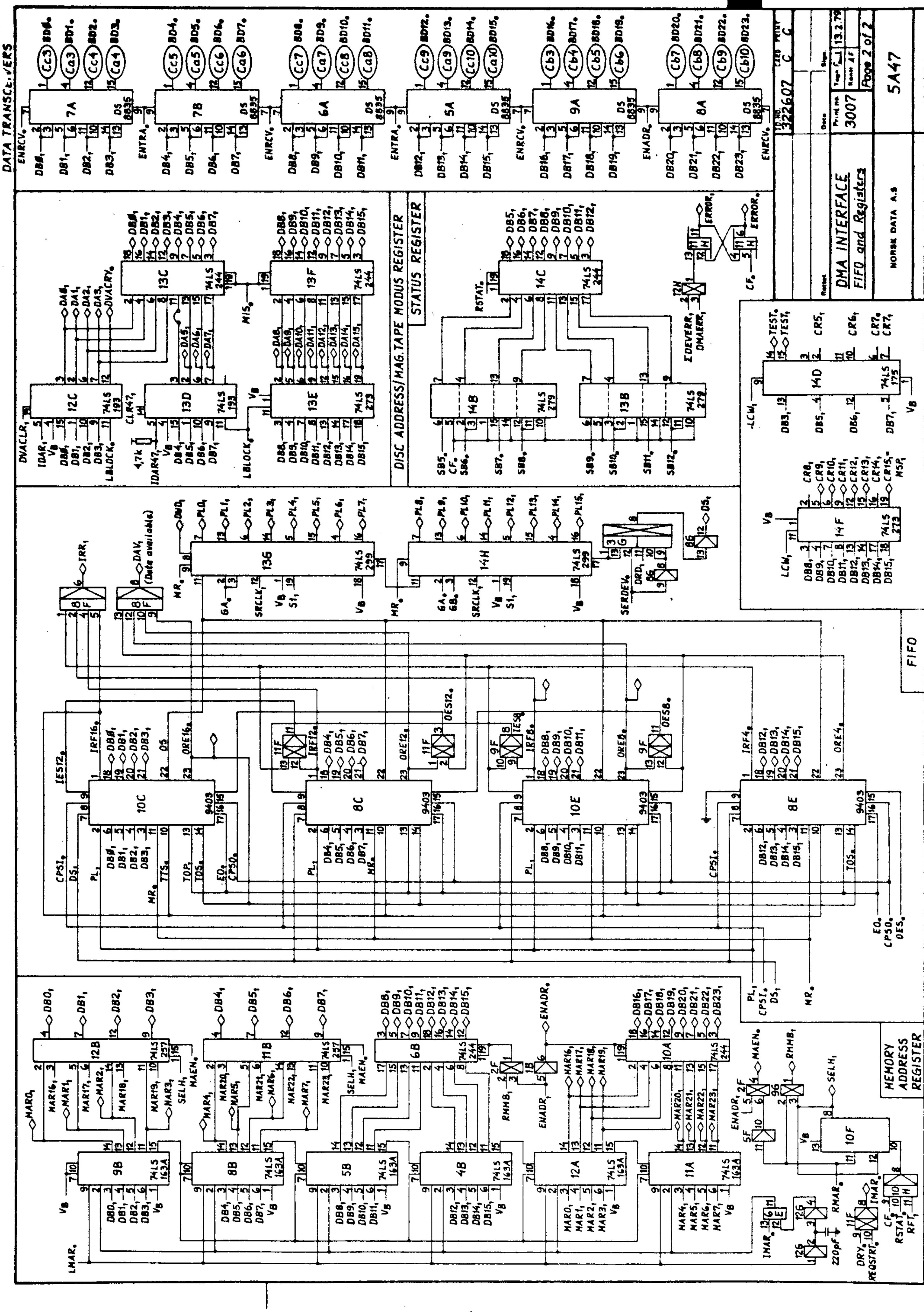

TEST
DATA AND CLOCK RECEIVERS
TRANSMITTERS
STATUS, COMPLETION AND ERRORS
READ MODUS
CONTROL
322606 G CF
CORR. ACCORD. TO ECO 100-98, 100-108
100-150
VERSION CHANGED FROM CC→DC (NO CORRECTIONS) ECO 100-56
PERTEC MT CONTROL
3006
Page 1 of 3
NORSK DATA A.S
5A16

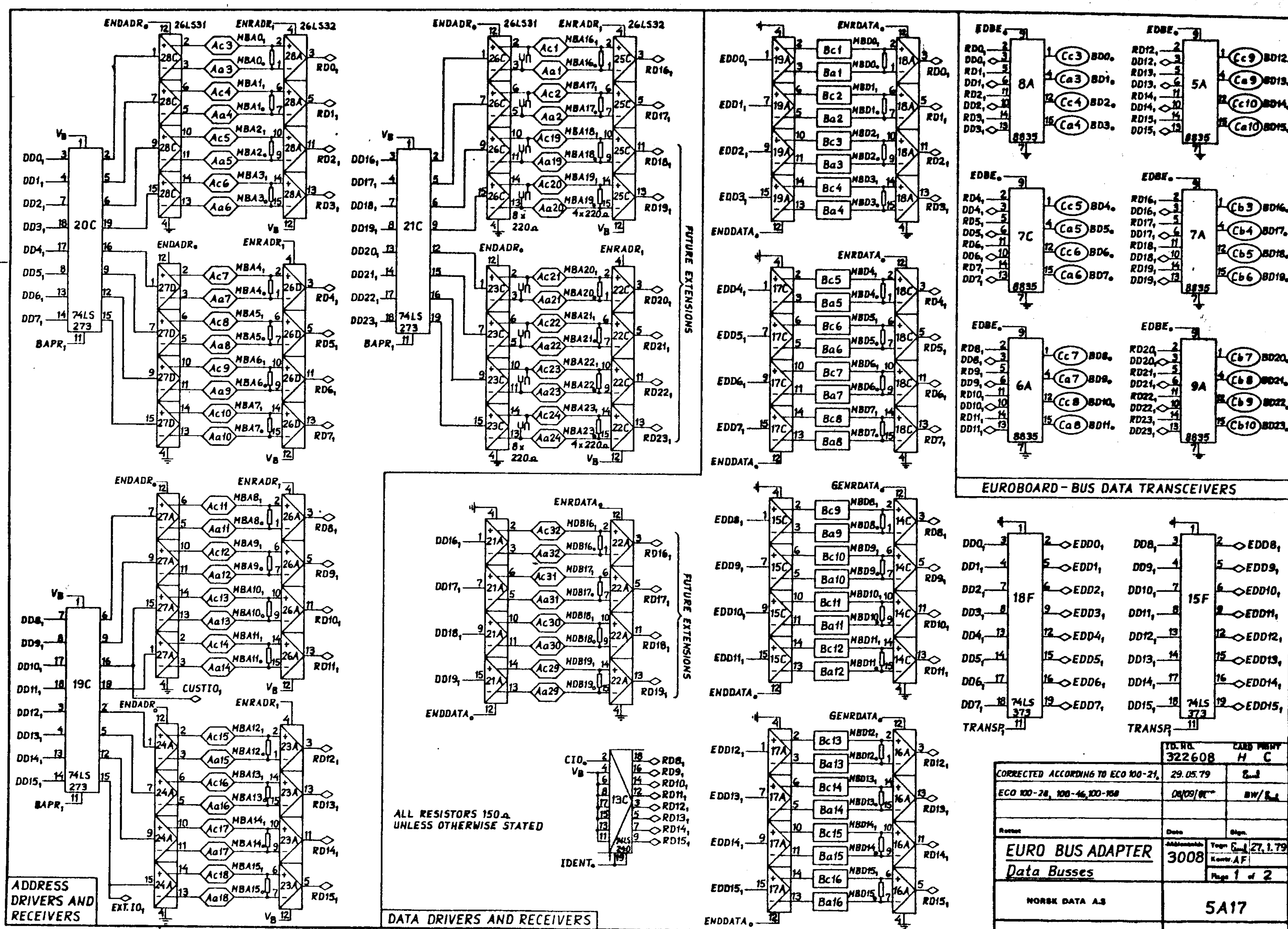


FIFO-CONTROL
RFT START INTERRUPT FF
WORD COUNTER
IOX CONTROL DEVICE-IDENT NO.
DATA TRANSCEIVER CONTROL
IDENT-LOGIC
REQUEST-GRANT LOGIC
CONTROL TRANSCEIVERS
THUMBWHEEL
* 5V STANDBY
322606
DMA INTERFACE
Control
3006
Page 2 of 3
NORSK DATA A.S
5A44

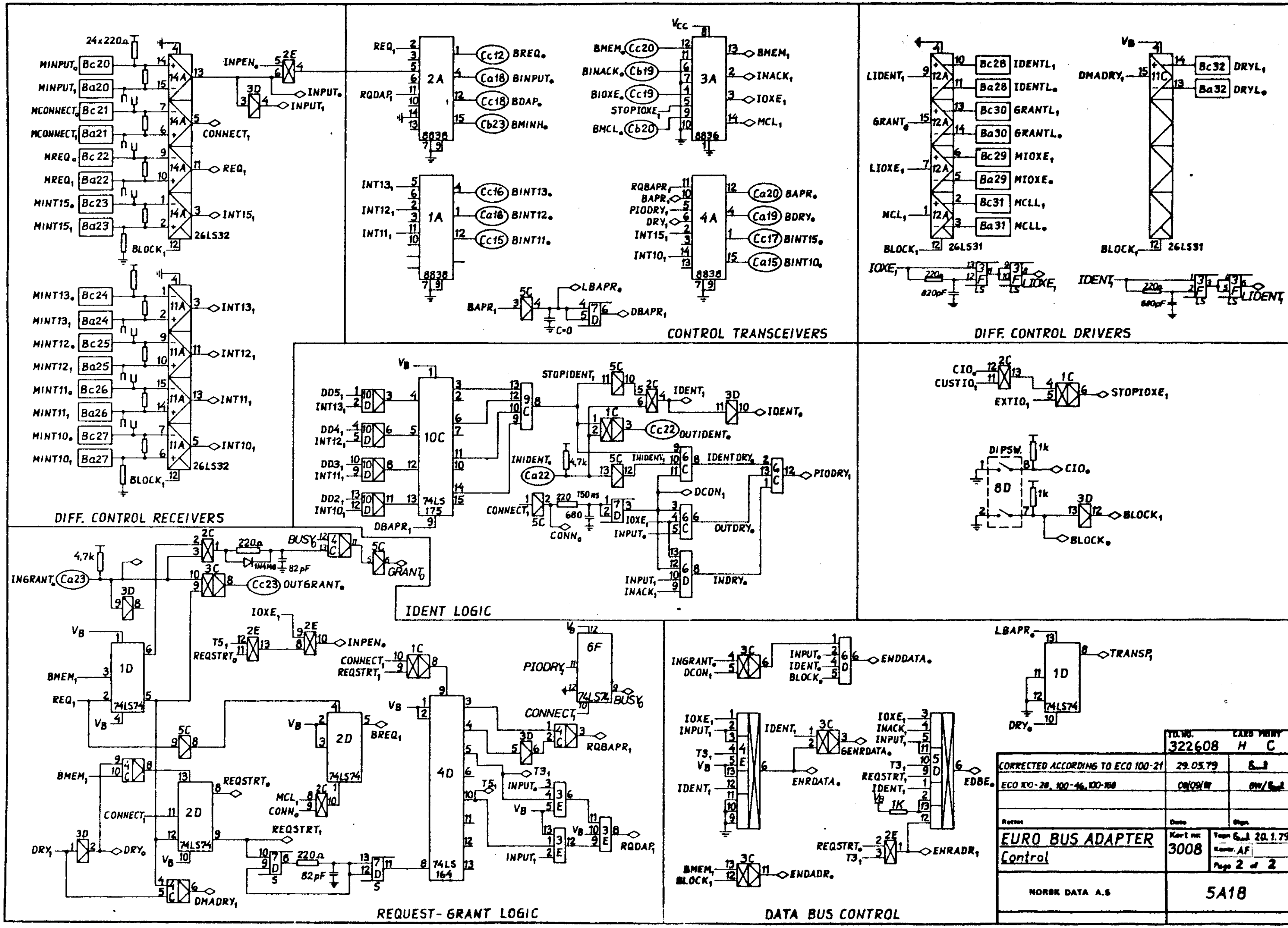

DATA TRANSCEIVERS
DISC ADDRESS/MAG.TAPE MODUS REGISTER
STATUS REGISTER
MEMORY ADDRESS REGISTER
FIFO
DMA INTERFACE
FIFO and Registers
NORSK DATA A.S
322606 G CF
3006
5A45

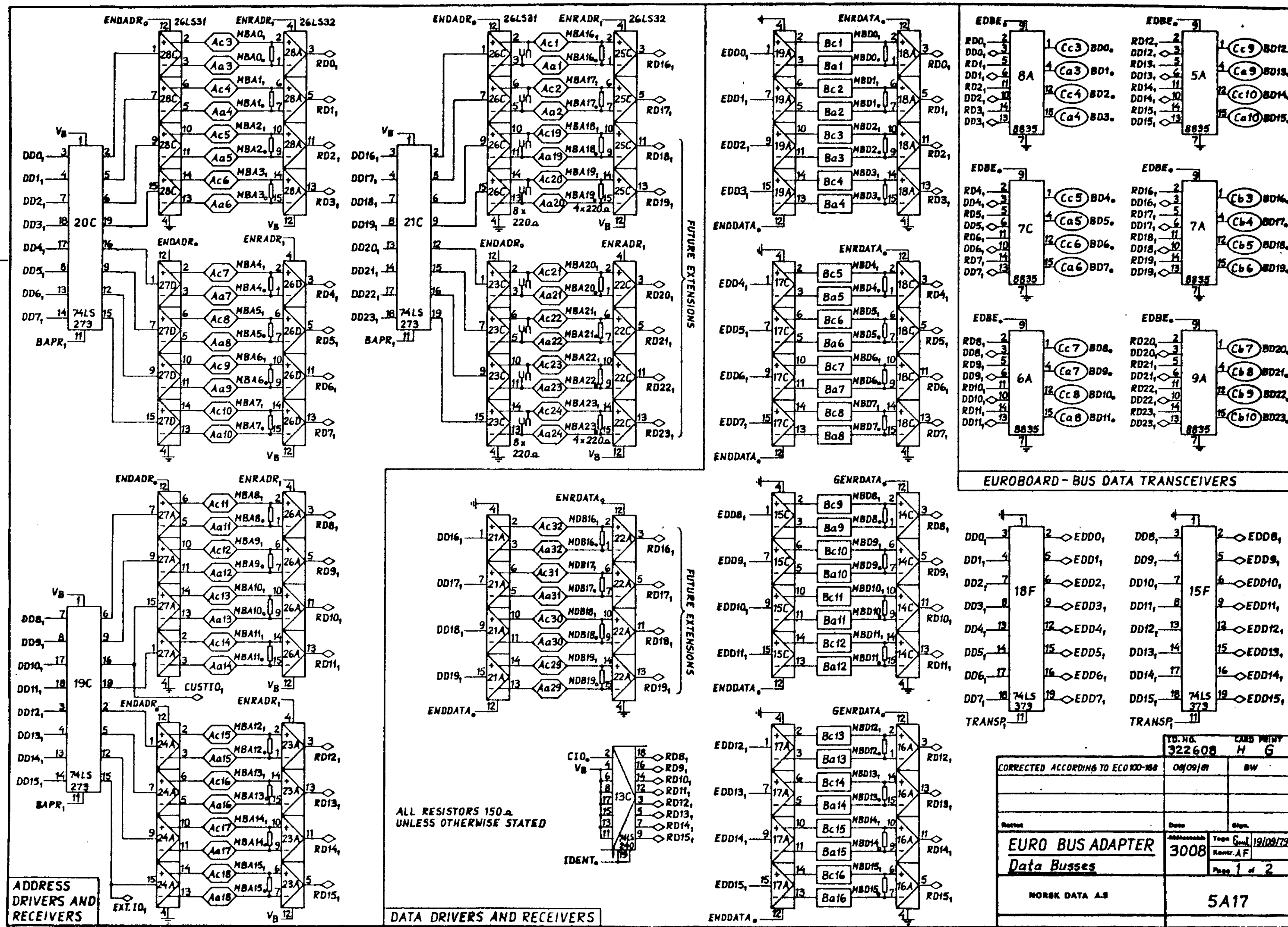

FIFO-CONTROL
RFT START
INTERRUPT FF
WORD
COUNTER
IOX CONTROL
DEVICE-IDENT NO.
DATA TRANSCEIVER CONTROL
IDENT-LOGIC
REQUEST-GRANT LOGIC
CONTROL TRANSCEIVERS
* 5V STANDBY
322607 C C
DMA INTERFACE
Control
3007
13.2.79
Page 1 of 2
NORSK DATA A.S
5A46

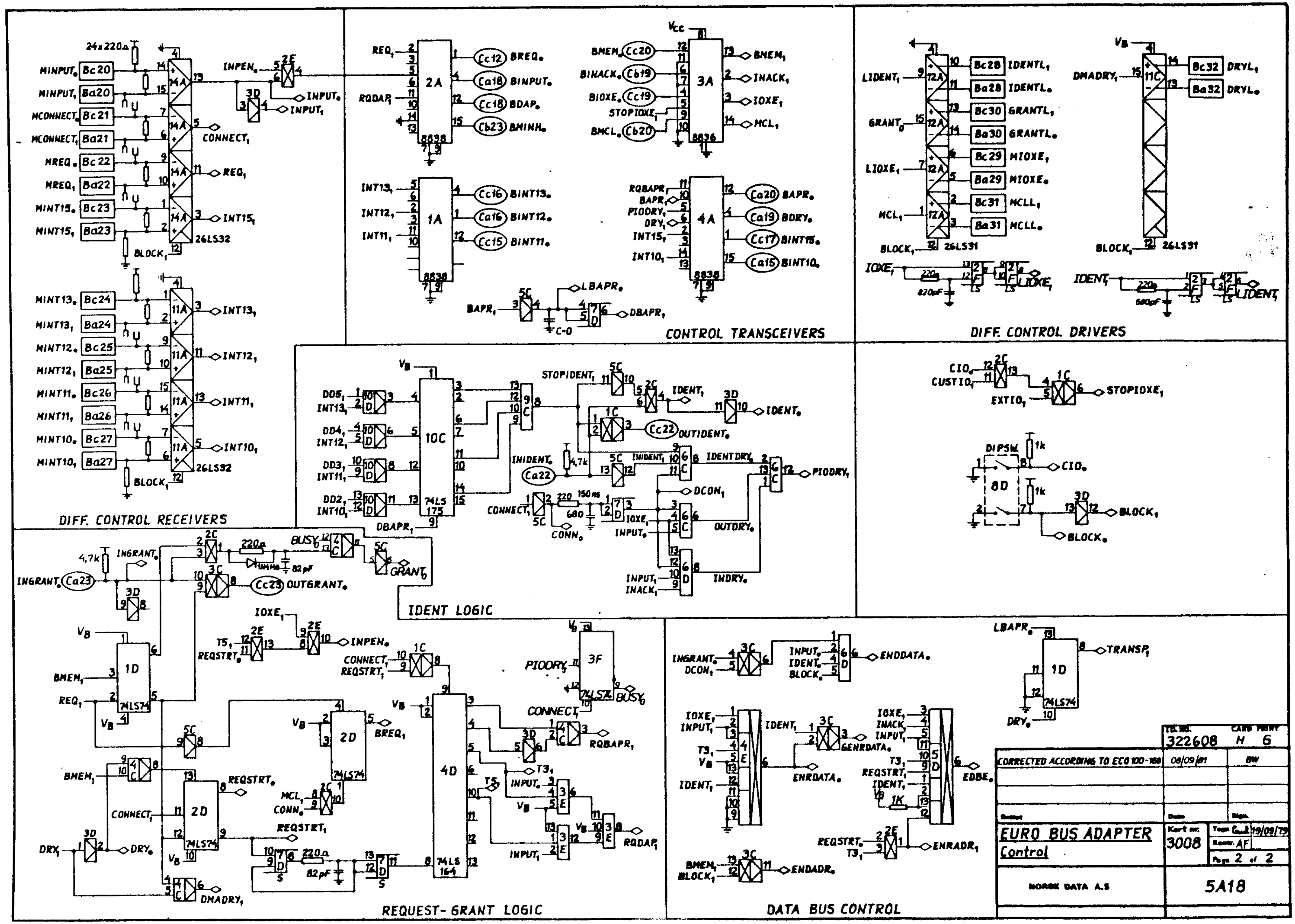

DATA TRANSCEIVERS
DISC ADDRESS/MAG.TAPE MODUS REGISTER
STATUS REGISTER
FIFO
MEMORY ADDRESS REGISTER
DMA INTERFACE
FIFO and Registers
NORSK DATA A.S
5A47
Page 2 of 2
3007
322607

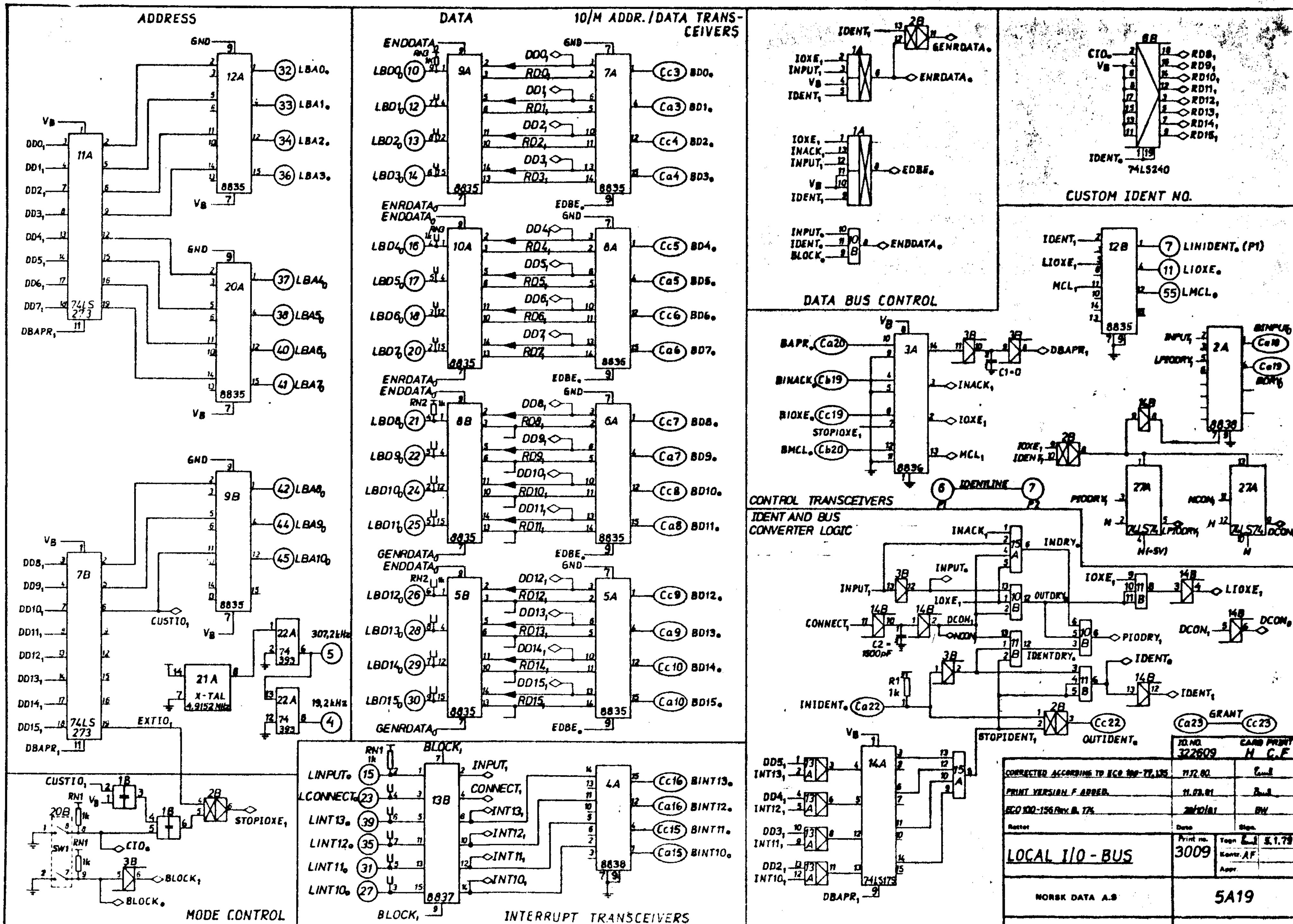


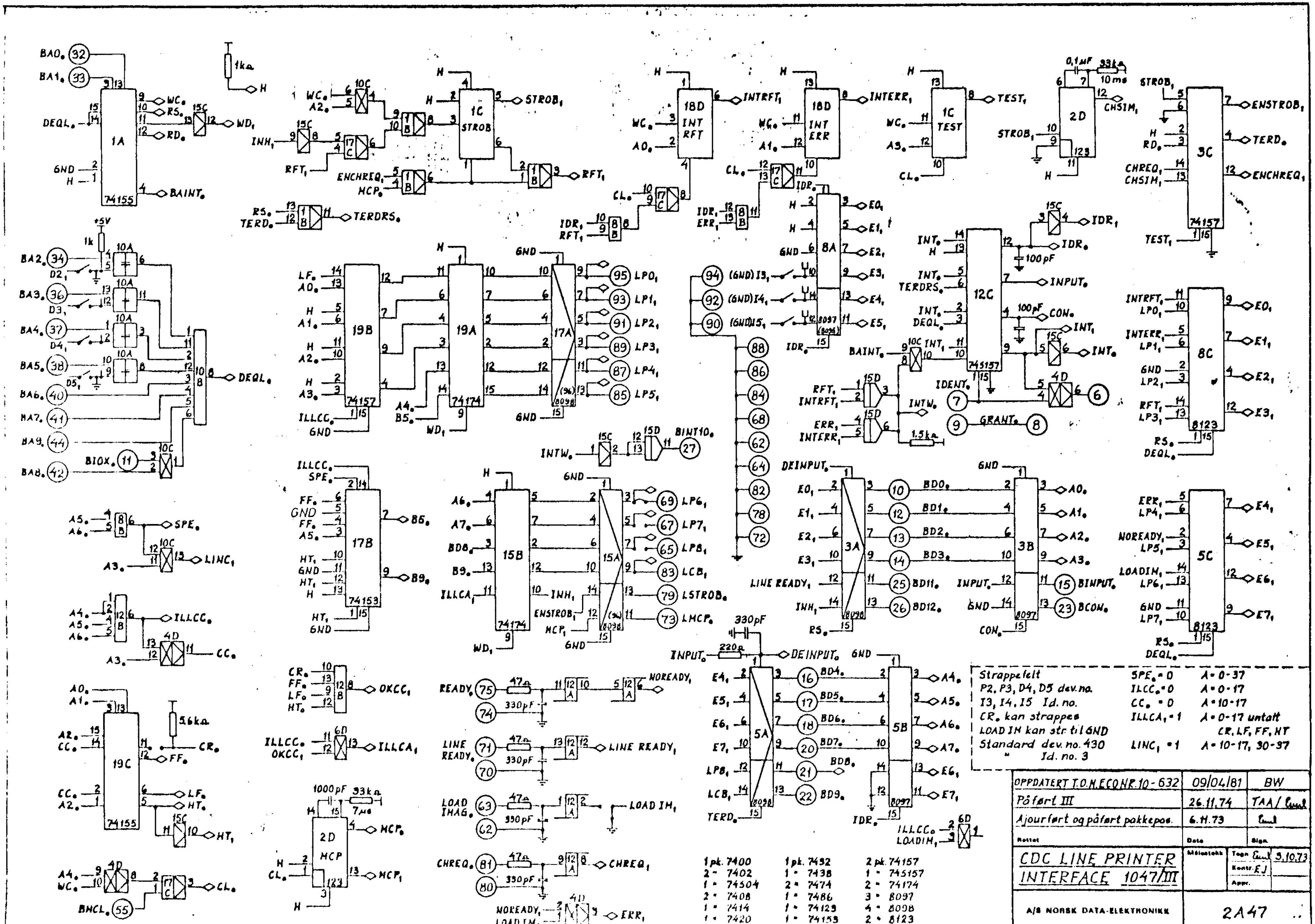
ADDRESS DRIVERS AND RECEIVERS
DATA DRIVERS AND RECEIVERS
EUROBOARD - BUS DATA TRANSCEIVERS
FUTURE EXTENSIONS
FUTURE EXTENSIONS
ALL RESISTORS 150Ω
UNLESS OTHERWISE STATED
20C
21C
19C
18F
15F
8A
5A
7C
7A
6A
9A
13C
CORRECTED ACCORDING TO ECO 100-21, 29.05.79
ECO 100-28, 100-46, 100-168
ID. NO. 322608
CARD PRINT H C
EURO BUS ADAPTER
Data Busses
3008
27.1.79
Page 1 of 2
NORSK DATA A.S
5A17

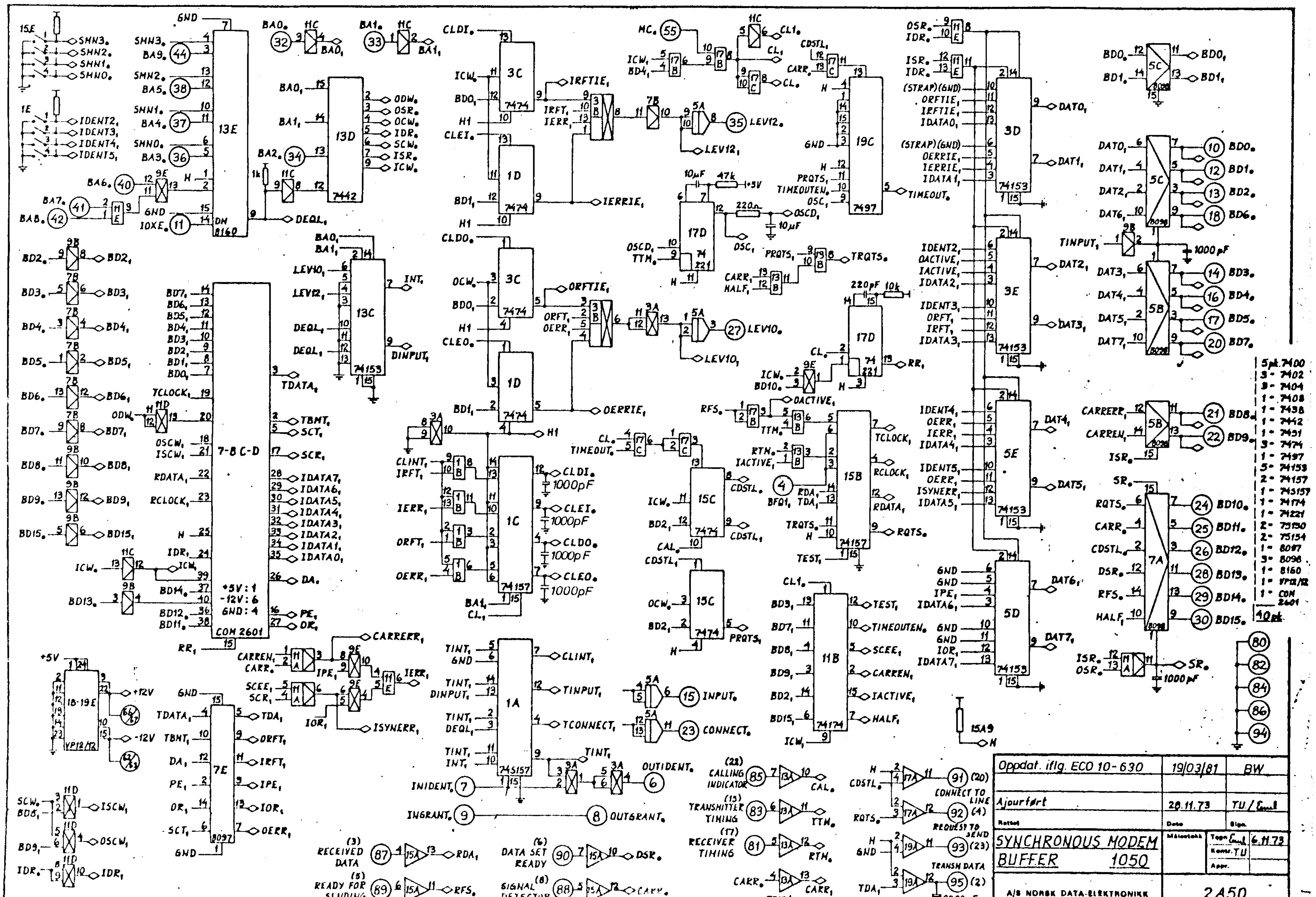

DIFF. CONTROL RECEIVERS
CONTROL TRANSCEIVERS
DIFF. CONTROL DRIVERS
IDENT LOGIC
REQUEST-GRANT LOGIC
DATA BUS CONTROL
TD.NO. 322608
CARD PRINT H C
CORRECTED ACCORDING TO ECO 100-21
29.05.79
ECO 100-28, 100-46, 100-168
EURO BUS ADAPTER
Control
Kort nr. 3008
Page 2 of 2
NORSK DATA A.S
5A18


ADDRESS DRIVERS AND RECEIVERS
DATA DRIVERS AND RECEIVERS
EUROBOARD - BUS DATA TRANSCEIVERS
FUTURE EXTENSIONS
FUTURE EXTENSIONS
ALL RESISTORS 150Ω
UNLESS OTHERWISE STATED
ID. NO. 322608
CARD PRINT H G
CORRECTED ACCORDING TO ECO 100-168
08/09/81
BW
EURO BUS ADAPTER
Data Busses
3008
19/09/79
AF
Page 1 of 2
NORSK DATA A.S
5A17

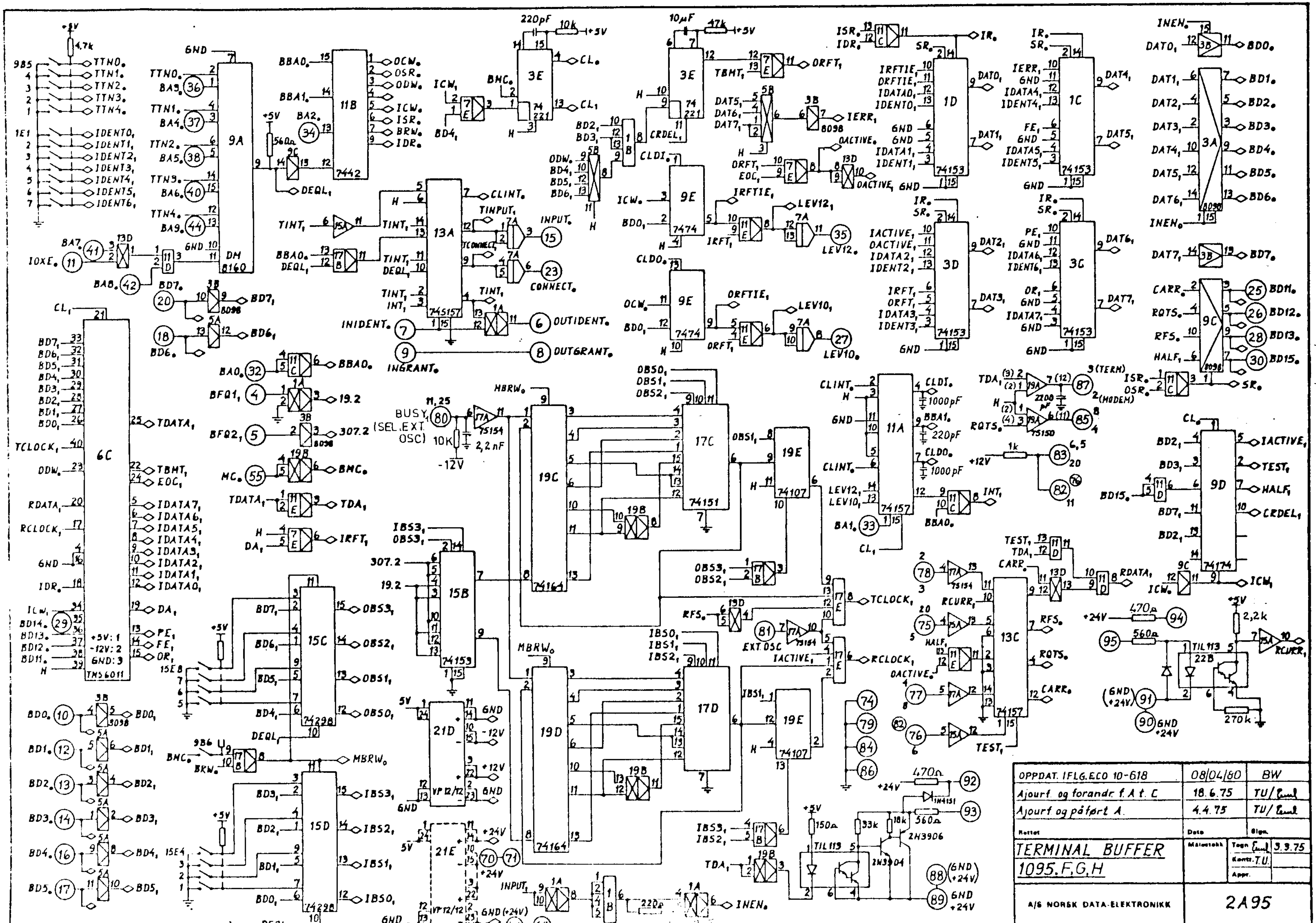

DIFF. CONTROL RECEIVERS
CONTROL TRANSCEIVERS
DIFF. CONTROL DRIVERS
IDENT LOGIC
REQUEST-GRANT LOGIC
DATA BUS CONTROL
TD. NO. 322608
CARD PRINT H 6
CORRECTED ACCORDING TO ECO 100-168 08/09/81 BW
EURO BUS ADAPTER
Control
Kort nr. 3008
Page 2 of 2
NORSK DATA A.S
5A18


ADDRESS
DATA
10/M ADDR./DATA TRANSCEIVERS
DATA BUS CONTROL
CUSTOM IDENT NO.
CONTROL TRANSCEIVERS
IDENT AND BUS CONVERTER LOGIC
MODE CONTROL
INTERRUPT TRANSCEIVERS
CORRECTED ACCORDING TO ECO 100-77,135
PRINT VERSION F ADDED.
ECO 100-156 Rev. B, 174
LOCAL I/O - BUS
NORSK DATA A.S
3009
5A19
322609
H C.F

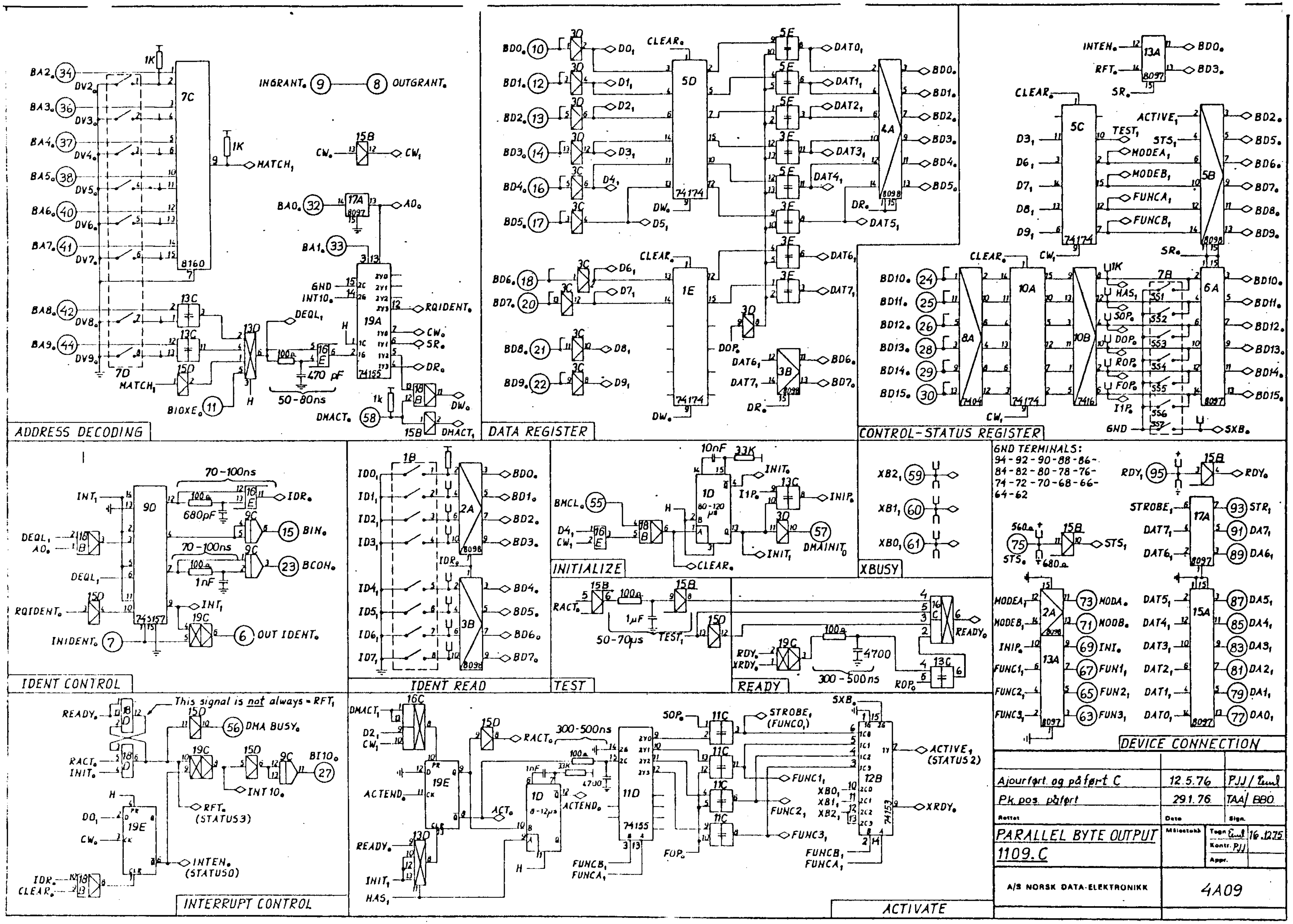

Strappefelt
P2, P3, D4, D5 dev. no.
I3, I4, I5 Id. no.
CR. kan strappes
LOAD IN kan str. til GND
Standard dev. no. 430
" Id. no. 3
SPE. = 0 A = 0-37
ILLCC. = 0 A = 0-17
CC. = 0 A = 10-17
ILLCA, = 1 A = 0-17 unntatt CR, LF, FF, HT
LINC, = 1 A = 10-17, 30-37
OPPDATERT T.O.H. ECO NR. 10-632 09/04/81 BW
Påført III 26.11.74 TAA
Ajourført og påført pakkepos. 6.11.73
CDC LINE PRINTER
INTERFACE 1047/III
A/S NORSK DATA-ELEKTRONIKK
2A47
1 pk. 7400
2 - 7402
1 - 74S04
2 - 7408
1 - 7414
1 - 7420
1 pk. 7432
1 - 7438
2 - 7474
1 - 7486
1 - 74123
1 - 74153
2 pk. 74157
1 - 74S157
2 - 74174
3 - 8097
4 - 8098
2 - 8123

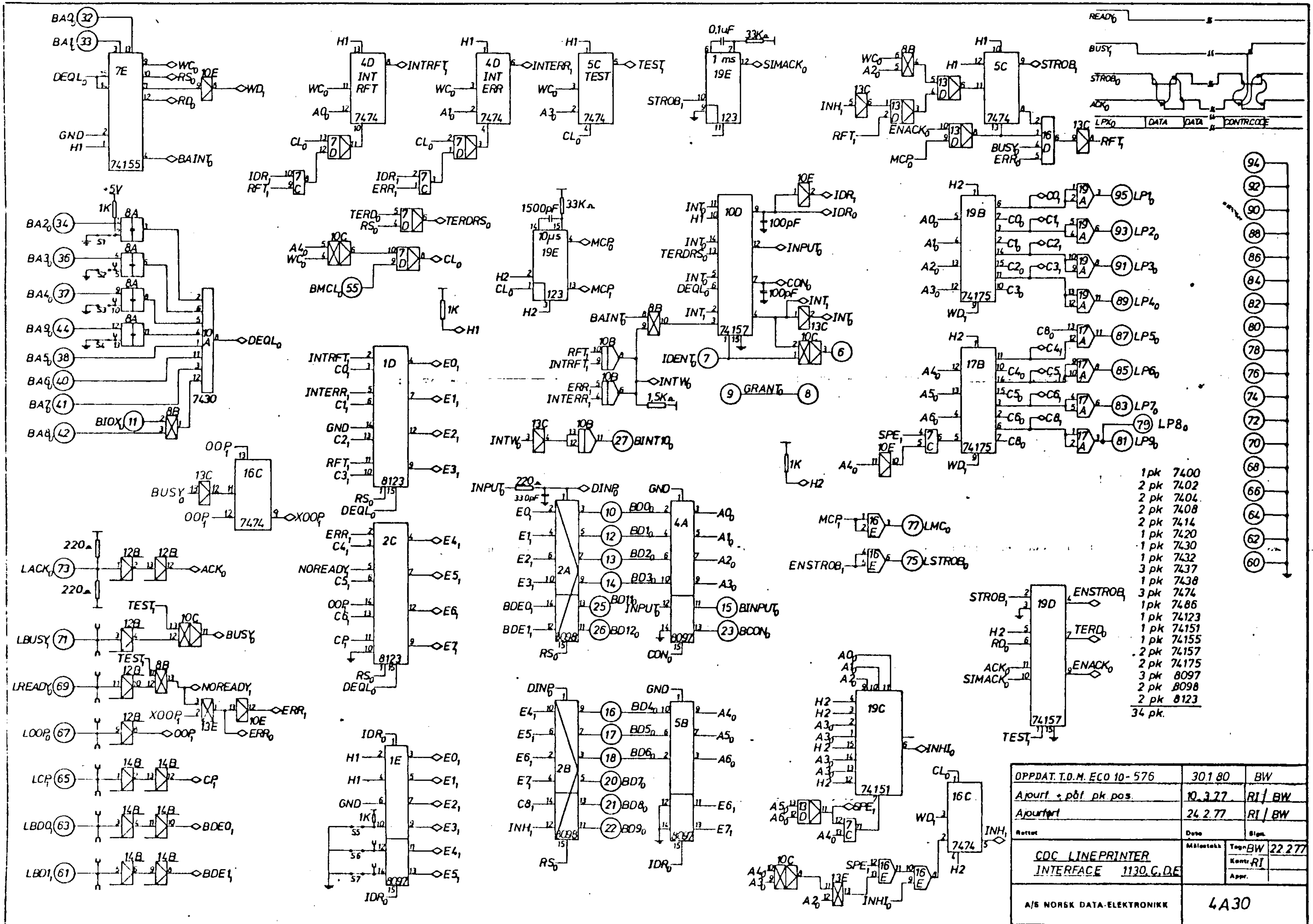


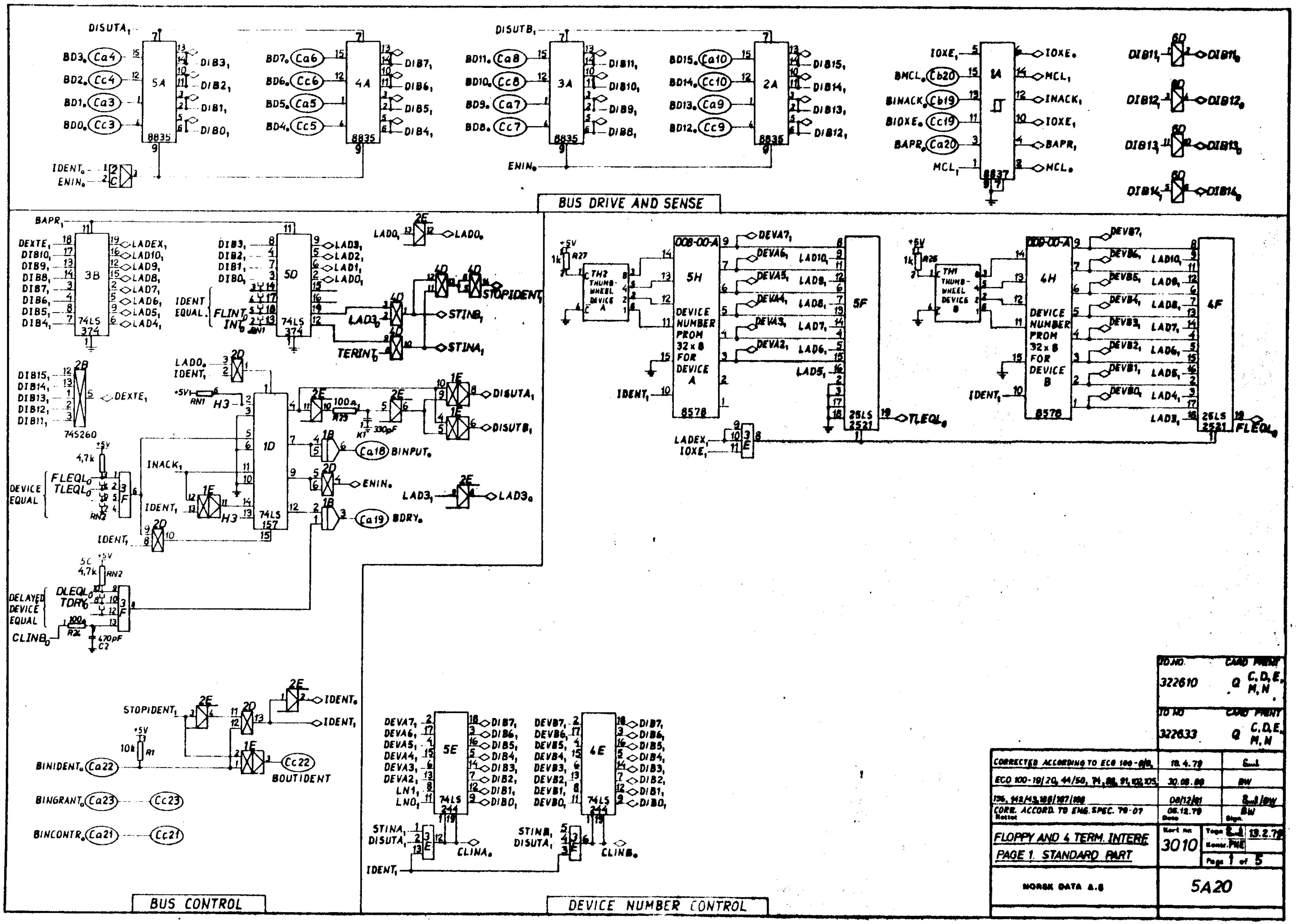
5 pk 7400
3 - 7402
3 - 7404
1 - 7408
1 - 7438
1 - 7442
1 - 7451
3 - 7474
1 - 7497
5 - 74153
2 - 74157
1 - 745157
1 - 74174
1 - 74221
2 - 75150
2 - 75154
1 - 8097
3 - 8098
1 - 8160
1 - VP12/12
1 - COM 2601
40 pk
Oppdat. iflg. ECO 10-630
19/03/81
BW
Ajourført
20.11.73
TU
SYNCHRONOUS MODEM
BUFFER
1050
6.11.73
TU
A/S NORSK DATA-ELEKTRONIKK
2A50

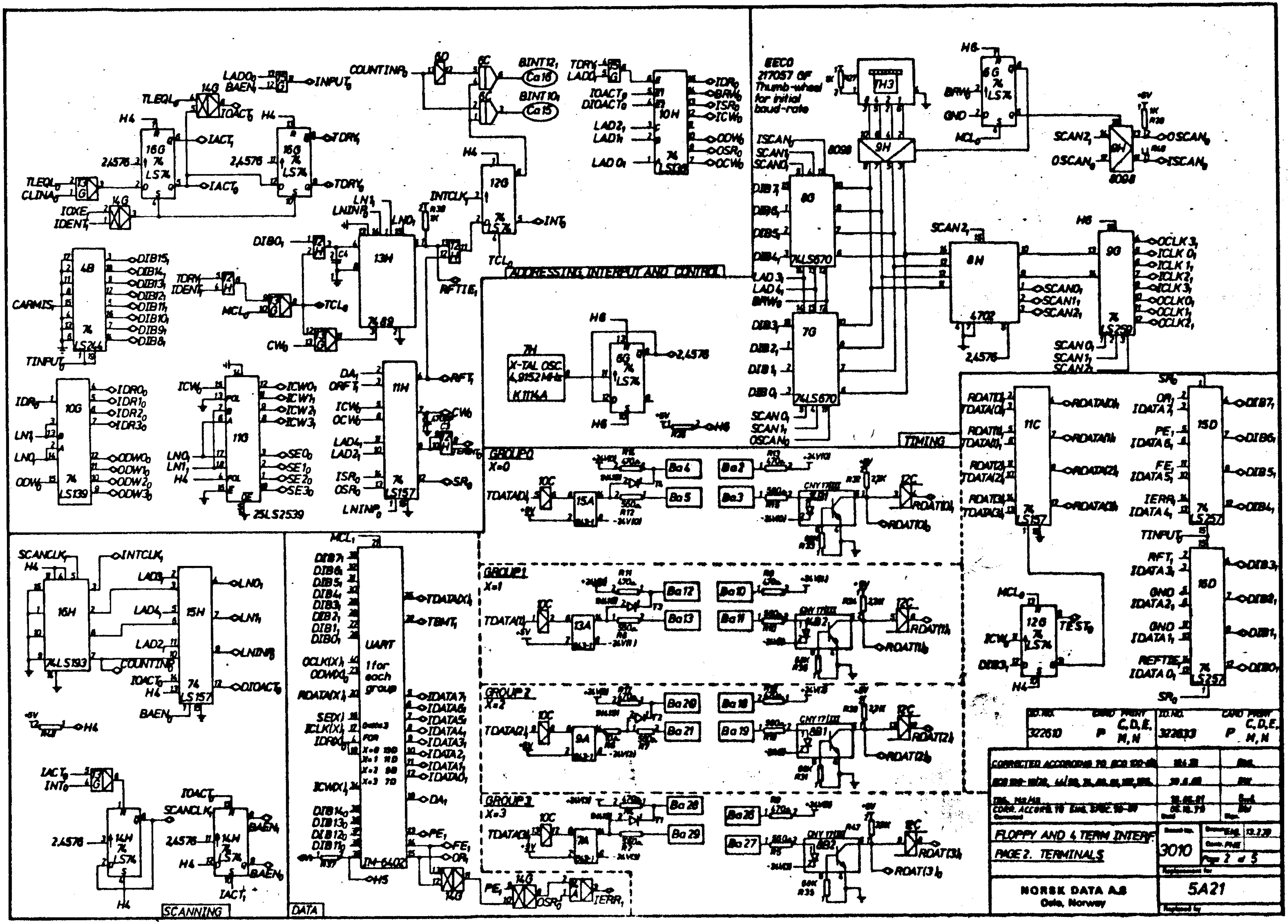


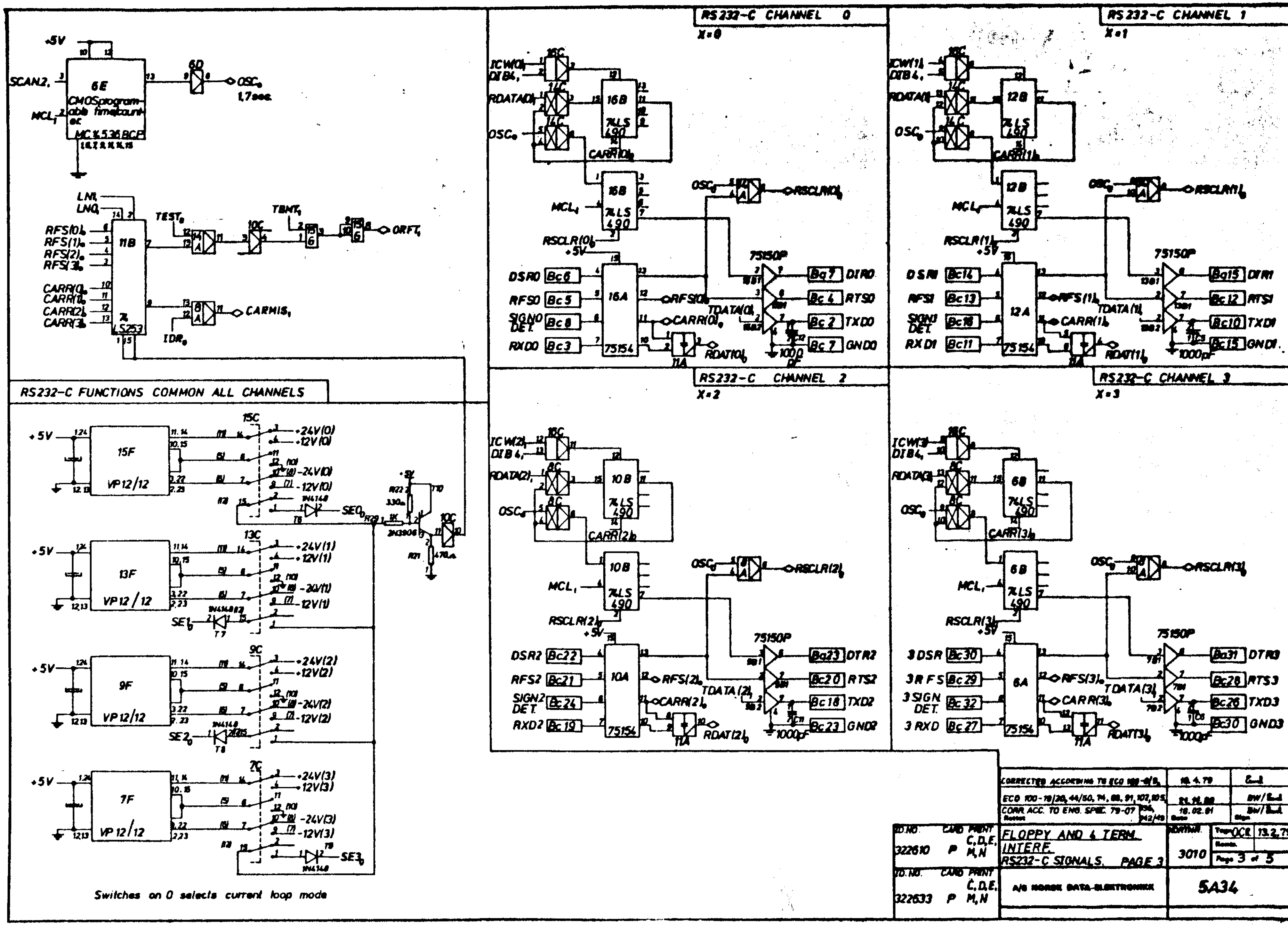
OPPDAT. IFLG.ECO 10-618
08/04/80
BW
Ajourf. og forandr. f. A t. C
18.6.75
Ajourf. og påført A.
4.4.75
TERMINAL BUFFER
1095.F,G,H
3.3.75
A/S NORSK DATA-ELEKTRONIKK
2A95

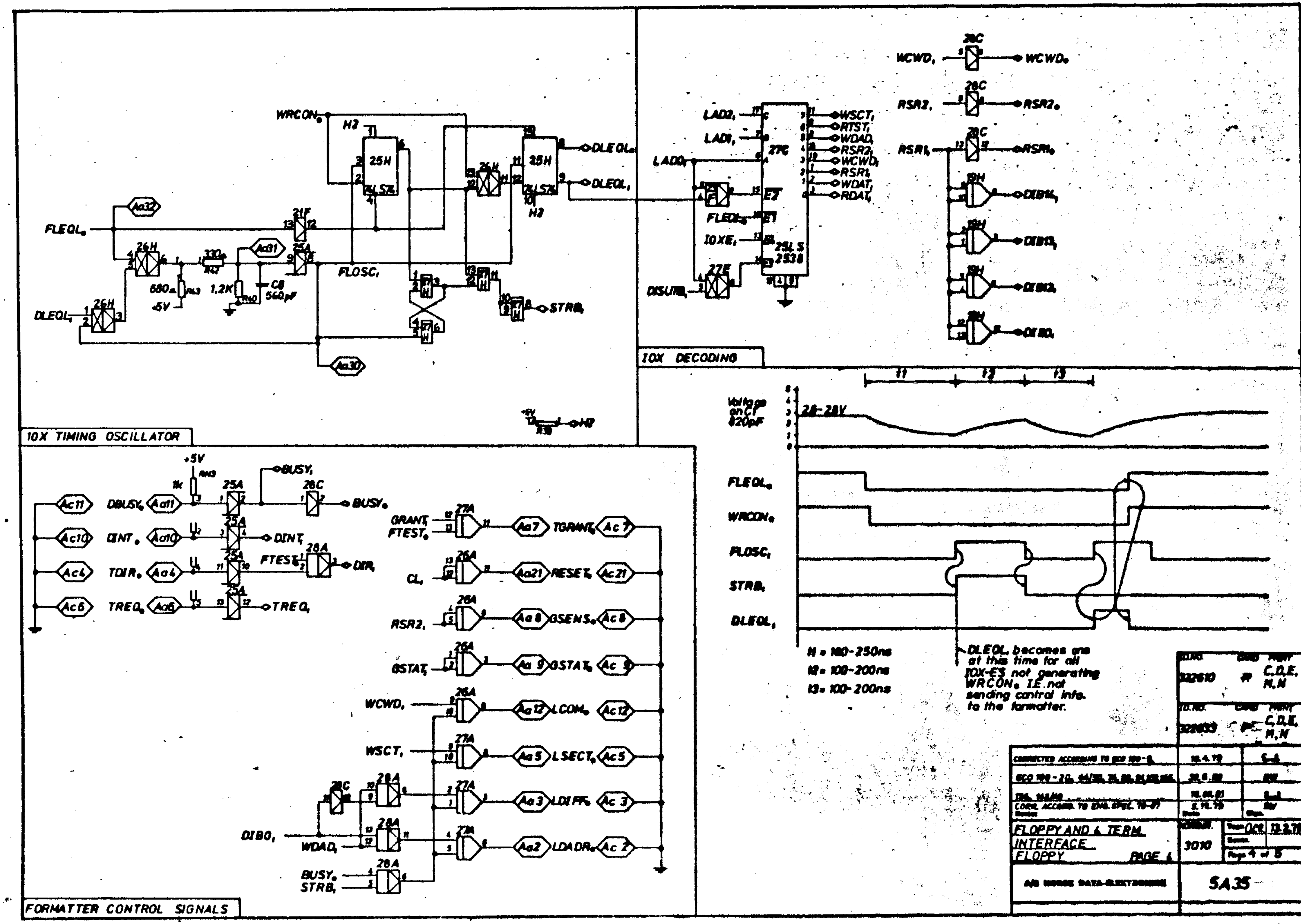

ADDRESS DECODING
DATA REGISTER
CONTROL-STATUS REGISTER
IDENT CONTROL
IDENT READ
INITIALIZE
XBUSY
TEST
READY
DEVICE CONNECTION
INTERRUPT CONTROL
ACTIVATE
GND TERMINALS: 94-92-90-88-86-84-82-80-78-76-74-72-70-68-66-64-62
This signal is not always = RFT1
Ajourført og påført C 12.5.76 PJJ
Pk.pos. påført 29.1.76 TAA/BBO
PARALLEL BYTE OUTPUT
1109.C
A/S NORSK DATA-ELEKTRONIKK
4A09

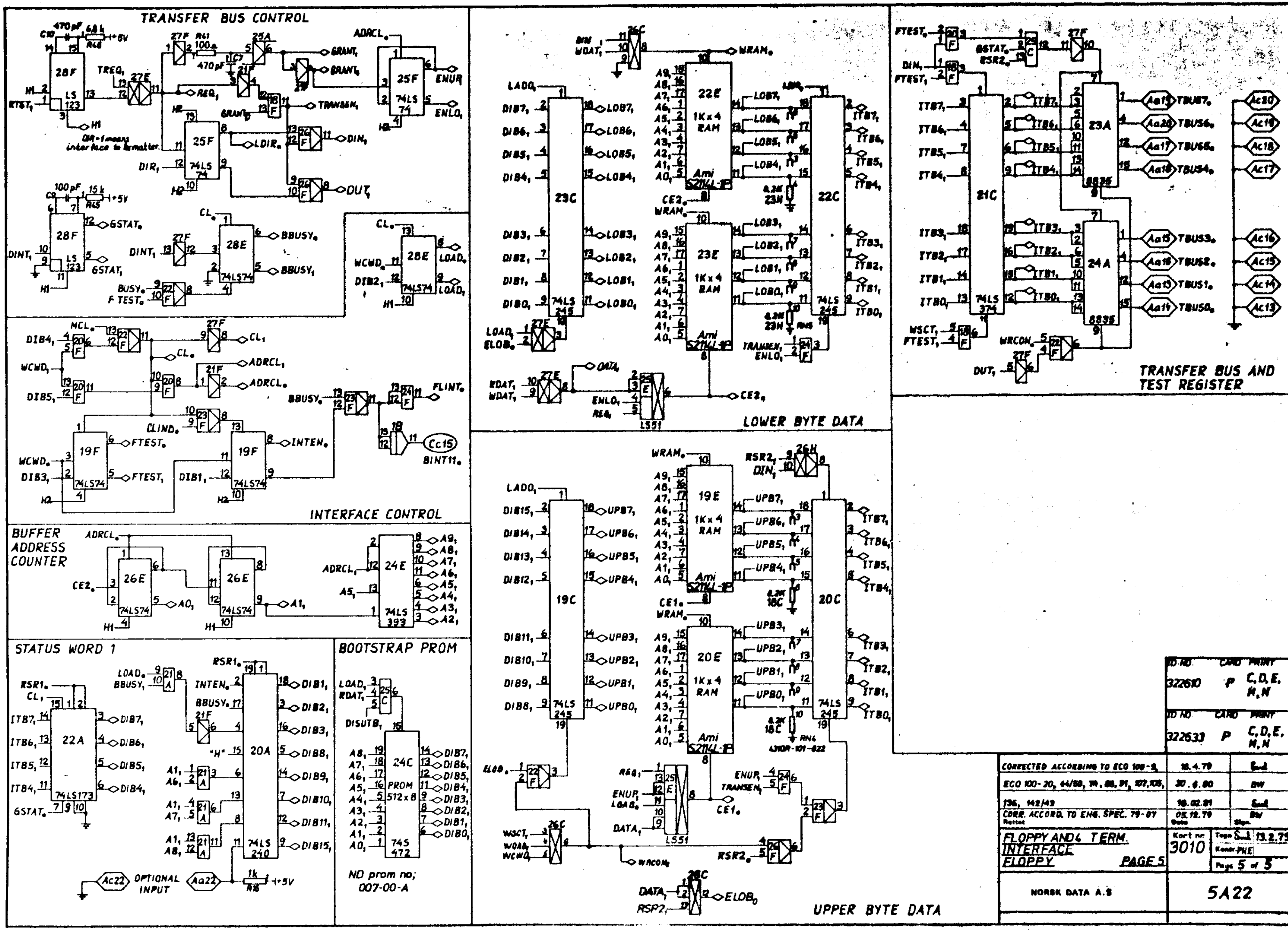

1 pk 7400
2 pk 7402
2 pk 7404
2 pk 7408
2 pk 7414
1 pk 7420
1 pk 7430
1 pk 7432
3 pk 7437
1 pk 7438
3 pk 7474
1 pk 7486
1 pk 74123
1 pk 74151
1 pk 74155
2 pk 74157
2 pk 74175
3 pk 8097
2 pk 8098
2 pk 8123
34 pk.
OPPDAT. T.O.M. ECO 10-576 | 30.1.80 | BW
Ajourf. + pôl pk pos. | 10.3.77 | RI / BW
Ajourført | 24.2.77 | RI / BW
CDC LINEPRINTER
INTERFACE 1130 C,D,E
Tegn BW 22.2.77
Kontr RI
A/S NORSK DATA-ELEKTRONIKK
4A30

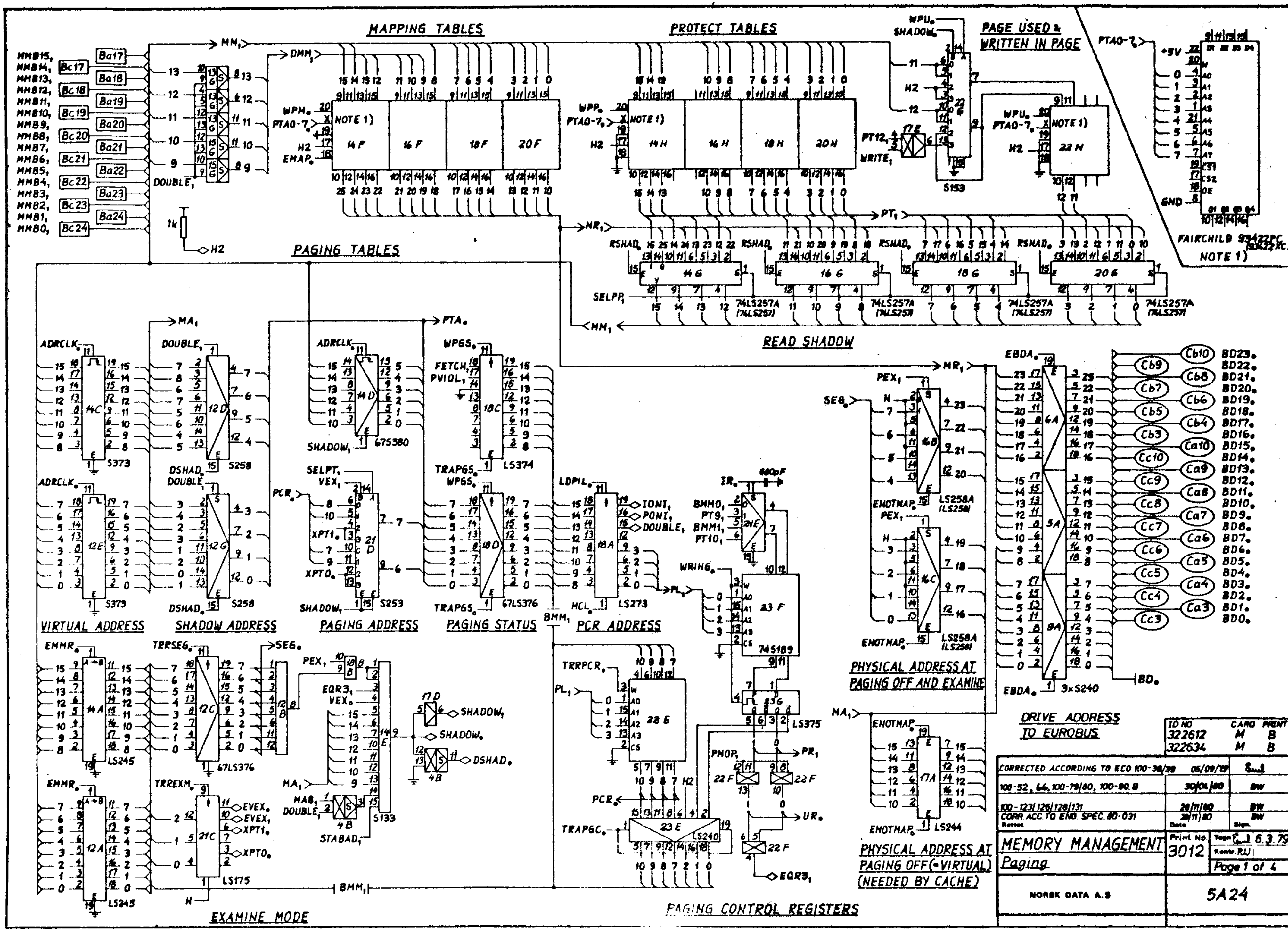

BUS DRIVE AND SENSE
BUS CONTROL
DEVICE NUMBER CONTROL
DEVICE NUMBER PROM 32 x 8 FOR DEVICE A
DEVICE NUMBER PROM 32 x 8 FOR DEVICE B
TH2 THUMB-WHEEL DEVICE A
TH1 THUMB-WHEEL DEVICE B
IDENT EQUAL
DEVICE EQUAL
DELAYED DEVICE EQUAL
BOUTIDENT
ID NO. 322610 CARD PRINT Q C,D,E, M,N
ID NO. 322633 CARD PRINT Q C,D,E, M,N
CORRECTED ACCORDING TO ECO 100-0/8, 19.4.79
ECO 100-19/20, 44/50, 74, 86, 91, 102, 105, 30.08.80 BW
136, 142/43, 188/187/188 08/12/81
CORR. ACCORD. TO ENG. SPEC. 79-07 06.12.79 BW
FLOPPY AND 4 TERM. INTERF.
PAGE 1. STANDARD PART
3010
13.2.79
Page 1 of 5
NORSK DATA A.S
5A20

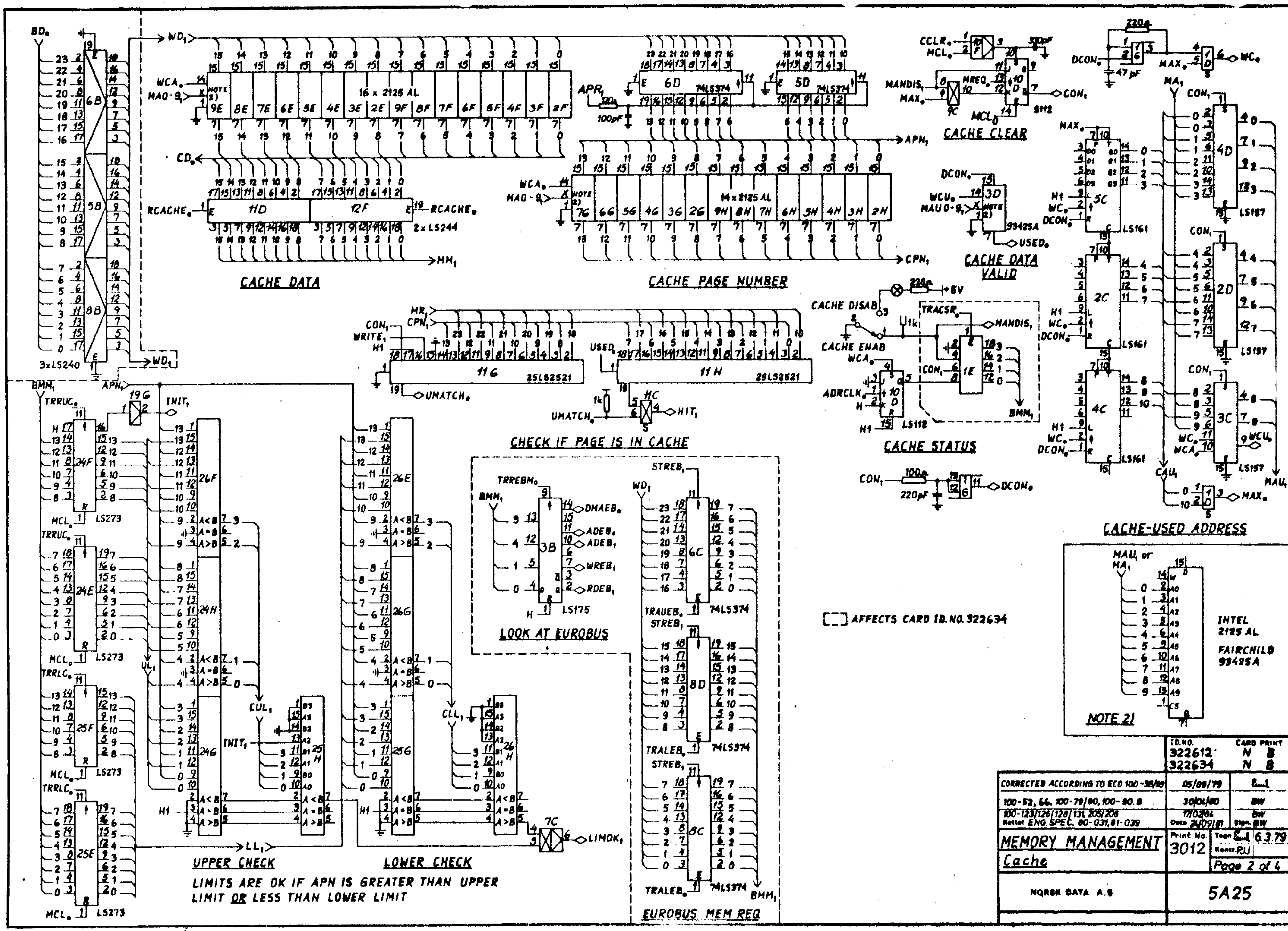

ADDRESSING, INTERRUPT AND CONTROL
TIMING
GROUP 0
X=0
GROUP 1
X=1
GROUP 2
X=2
GROUP 3
X=3
SCANNING
DATA
UART
X-TAL OSC
4,9152 MHz
EECO
217057 OF
Thumb-wheel
for initial
baud-rate
FLOPPY AND 4 TERM INTERF
PAGE 2. TERMINALS
3010
Page 2 of 5
NORSK DATA A.S
Oslo, Norway
5A21


RS232-C CHANNEL 0
X=0
RS232-C CHANNEL 1
X=1
RS232-C CHANNEL 2
X=2
RS232-C CHANNEL 3
X=3
RS232-C FUNCTIONS COMMON ALL CHANNELS
6E
CMOS programable timecounter
MC14536BCP
OSC
1,7sec.
11B
74LS253
ORFT
CARMIS
75150P
75154
74LS490
15F
13F
9F
7F
VP 12/12
+24V(0)
+12V(0)
-24V(0)
-12V(0)
Switches on 0 selects current loop mode
FLOPPY AND 4 TERM. INTERF.
RS232-C SIGNALS PAGE 3
3010
Page 3 of 5
5A34
A/S NORSK DATA-ELEKTRONIKK
322610
322633

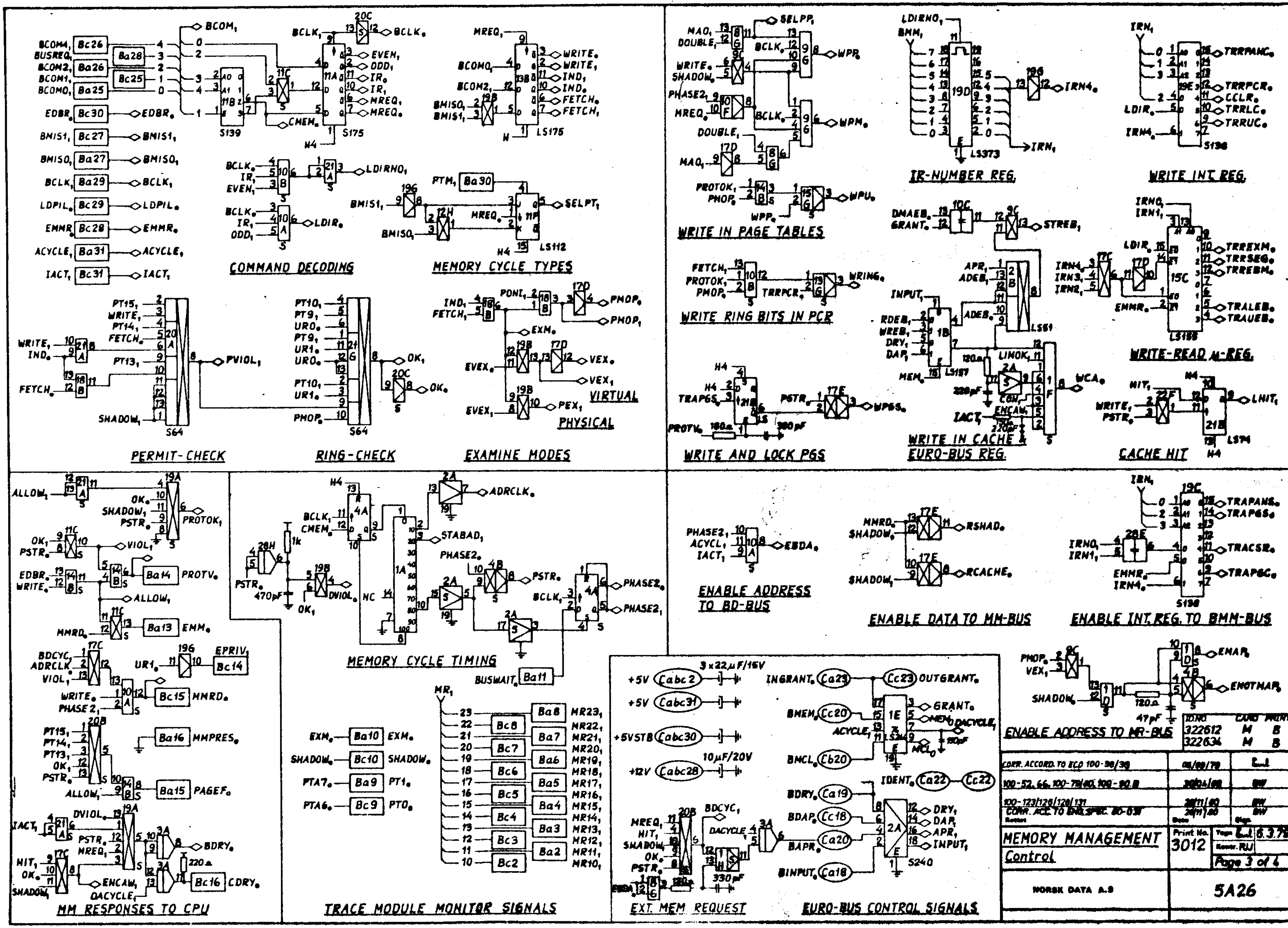

10X TIMING OSCILLATOR
IOX DECODING
FORMATTER CONTROL SIGNALS
FLEOL₀
WRCON₀
FLOSC₁
STRB₁
DLEOL₁
DLEOL₀
Voltage on C7 820pF
2.8-2.9V
t1
t2
t3
t1 = 160-250ns
t2 = 100-200ns
t3 = 100-200ns
DLEOL₁ becomes one at this time for all IOX-ES not generating WRCON₀ I.E. not sending control info. to the formatter.
DBUSY₀
DINT₀
TDIR₀
TREQ₀
BUSY₁
BUSY₀
DINT₁
DIR₁
TREQ₁
FTEST₁
GRANT₁
FTEST₀
CL₁
RSR2₁
GSTAT₁
WCWD₁
WSCT₁
DIBO₁
WDAD₁
BUSY₀
STRB₁
TGRANT₀
RESET₀
GSENS₀
GSTAT₀
LCOM₀
LSECT₀
LDIFF₀
LDADR₀
LAD2₁
LAD1₁
LAD0₁
FLEOL₀
IOXE₁
DISUM₁
WSCT₁
RTST₁
WDAD₁
RSR2₁
WCWD₁
RSR1₁
WDAT₁
RDAT₁
WCWD₀
RSR2₀
RSR1₀
DIB14₁
DIB13₁
DIB12₁
DIB0₁
25LS 2538
FLOPPY AND L TERM.
INTERFACE
FLOPPY
PAGE 4
A/S NORSK DATA-ELEKTRONIKK
3010
5A35
CORRECTED ACCORDING TO ECO 100-6
CORR. ACCORD. TO ENG. SPEC.
322610
322633
C,D,E, M,N

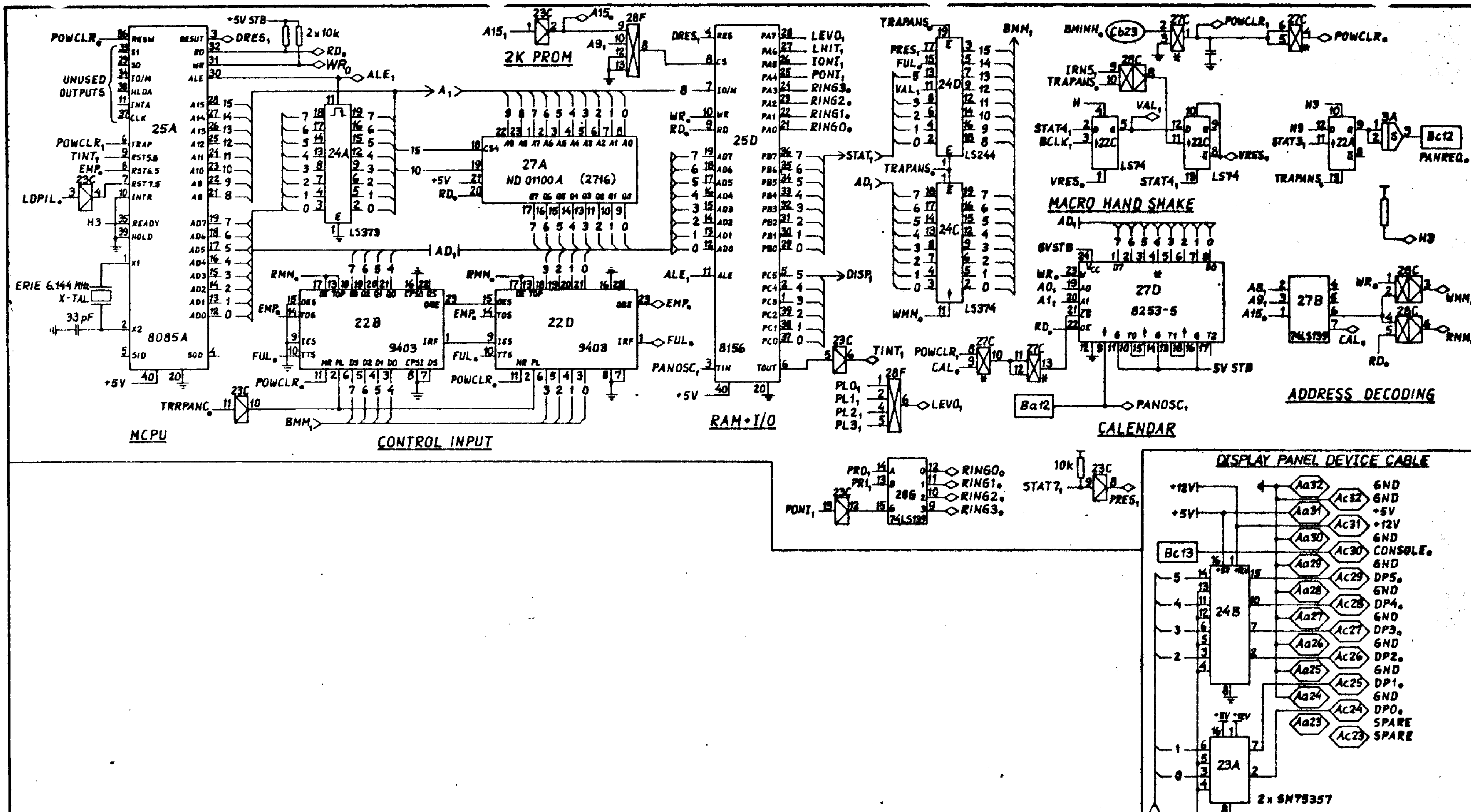

TRANSFER BUS CONTROL
INTERFACE CONTROL
BUFFER ADDRESS COUNTER
STATUS WORD 1
BOOTSTRAP PROM
ND prom no; 007-00-A
OPTIONAL INPUT
LOWER BYTE DATA
UPPER BYTE DATA
TRANSFER BUS AND TEST REGISTER
TO NO. 322610 CARD P PRINT C,D,E,H,N
TO NO. 322633 CARD P PRINT C,D,E,H,N
CORRECTED ACCORDING TO ECO 100-9, 18.4.79
CORR. ACCORD. TO ENG. SPEC. 79-07 05.12.79
FLOPPY AND 4 TERM. INTERFACE FLOPPY PAGE 5
Kort nr 3010
Page 5 of 5
13.2.79
NORSK DATA A.S
5A22


MAPPING TABLES
PROTECT TABLES
PAGE USED & WRITTEN IN PAGE
FAIRCHILD 93422PC
NOTE 1)
PAGING TABLES
READ SHADOW
VIRTUAL ADDRESS
SHADOW ADDRESS
PAGING ADDRESS
PAGING STATUS
PCR ADDRESS
PHYSICAL ADDRESS AT PAGING OFF AND EXAMINE
DRIVE ADDRESS TO EUROBUS
PHYSICAL ADDRESS AT PAGING OFF (=VIRTUAL) (NEEDED BY CACHE)
EXAMINE MODE
PAGING CONTROL REGISTERS
ID NO 322612 322634
CARD M M
PRINT B B
CORRECTED ACCORDING TO ECO 100-38/38 05/09/79
100-52, 66, 100-79/80, 100-80.B 30/01/80 BW
100-123/126/128/131 28/11/80 BW
CORR ACC. TO ENG. SPEC. 80-031 28/11/80 BW
MEMORY MANAGEMENT
Paging
Print No. 3012
6.3.79
Page 1 of 4
NORSK DATA A.S
5A24



CACHE DATA
CACHE PAGE NUMBER
CACHE CLEAR
CACHE DATA VALID
CACHE STATUS
CACHE-USED ADDRESS
CHECK IF PAGE IS IN CACHE
LOOK AT EUROBUS
EUROBUS MEM REQ
UPPER CHECK
LOWER CHECK
LIMITS ARE OK IF APN IS GREATER THAN UPPER LIMIT OR LESS THAN LOWER LIMIT
AFFECTS CARD ID. NO. 322634
NOTE 2)
INTEL 2125 AL
FAIRCHILD 93425A
16 x 2125 AL
14 x 2125 AL
CACHE DISAB
CACHE ENAB
ID. NO.
322612
322634
CARD PRINT
N B
N B
CORRECTED ACCORDING TO ECO 100-38/80
100-52, 66, 100-79/80, 100-90.8
100-123/126/128/131, 205/206
Rettet ENG SPEC. 80-031, 81-039
05/09/79
30/04/80
17/03/81
24/09/81
MEMORY MANAGEMENT
Cache
Print No. 3012
6.3.79
Page 2 of 4
NORSK DATA A.S
5A25


COMMAND DECODING
MEMORY CYCLE TYPES
PERMIT-CHECK
RING-CHECK
EXAMINE MODES
VIRTUAL
PHYSICAL
WRITE IN PAGE TABLES
WRITE RING BITS IN PCR
WRITE AND LOCK PGS
IR-NUMBER REG.
WRITE IN CACHE & EURO-BUS REG.
WRITE INT. REG.
WRITE-READ M-REG.
CACHE HIT
MM RESPONSES TO CPU
MEMORY CYCLE TIMING
TRACE MODULE MONITOR SIGNALS
ENABLE ADDRESS TO BD-BUS
ENABLE DATA TO MM-BUS
ENABLE INT. REG. TO BMM-BUS
ENABLE ADDRESS TO MR-BUS
EXT. MEM REQUEST
EURO-BUS CONTROL SIGNALS
CORR. ACCORD. TO ECO 100-38/39
100-52, 66, 100-79/80, 100-90 B
100-123/126/128/131
CORR. ACC. TO ENG. SPEC. 80-039
MEMORY MANAGEMENT
Control
Print No. 3012
Page 3 of 4
NORSK DATA A.S
5A26



IDNO	CARD	PRINT
322612	M	B
322634	M	B

CORRECTED ACCORDING TO ECO 100-38/79	05/09/79	
100-52, 66, 100-78/80, 100-80.B	30/04/80	BW
100-123/126/128/131	28/11/80	BW
CORR. ACC. TO ENG. SPEC. 80-031	28/11/80	BW

MEMORY MANAGEMENT
Display

Print No. 3012

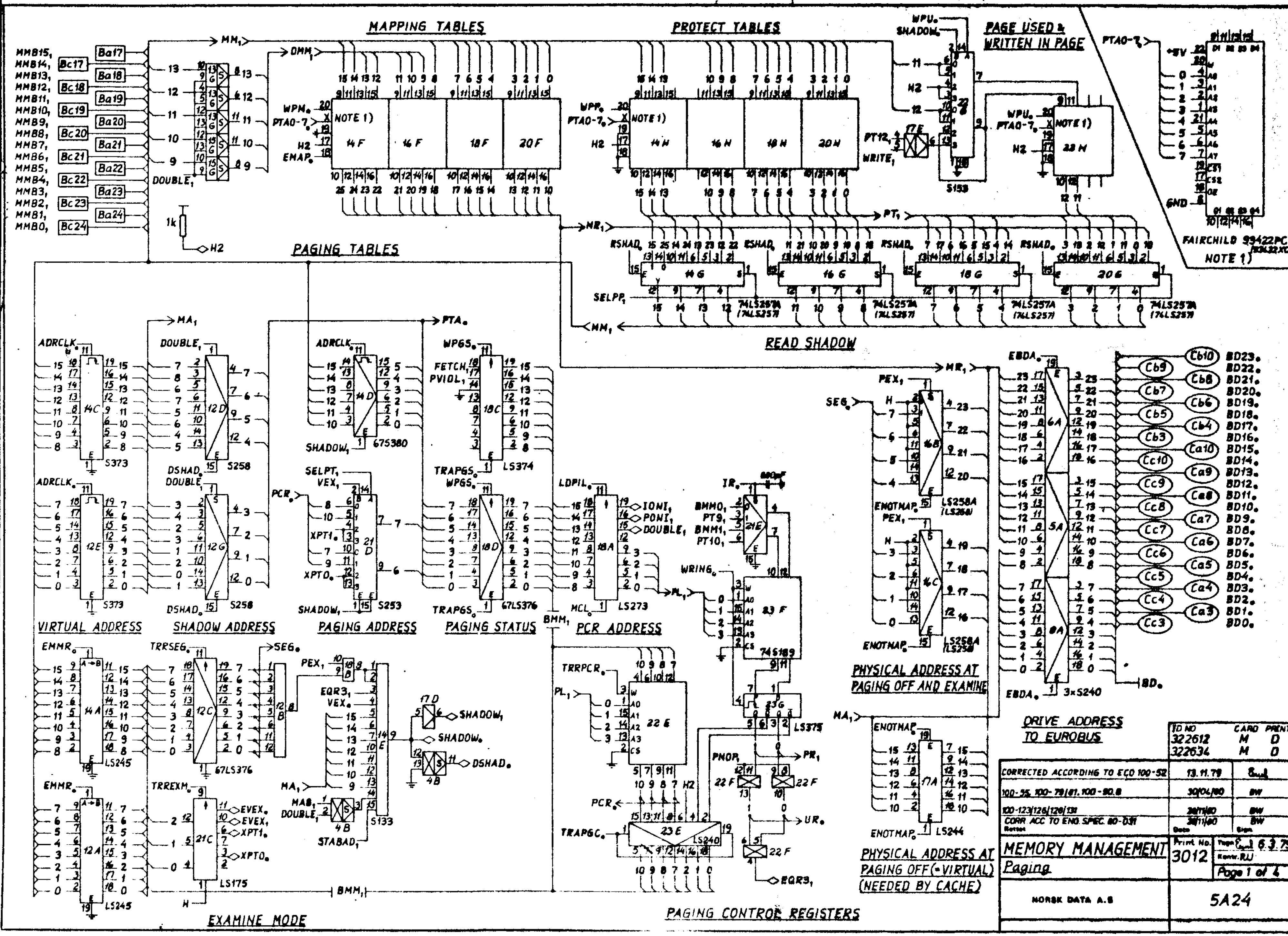
6.3.79

RJ

Page 4 of 4

NORSK DATA A.S

5A27



ID NO	CARD	PRINT
322612	M	D
322634	M	D

Revision	Date	Sign.
CORRECTED ACCORDING TO ECO 100-52	13.11.79	
100-35, 100-79/81, 100-90.8	30/04/80	BW
100-123/126/128/131	28/11/80	BW
CORR ACC TO ENG. SPEC. 80-031	28/11/80	BW

MEMORY MANAGEMENT

Paging

Print No. 3012

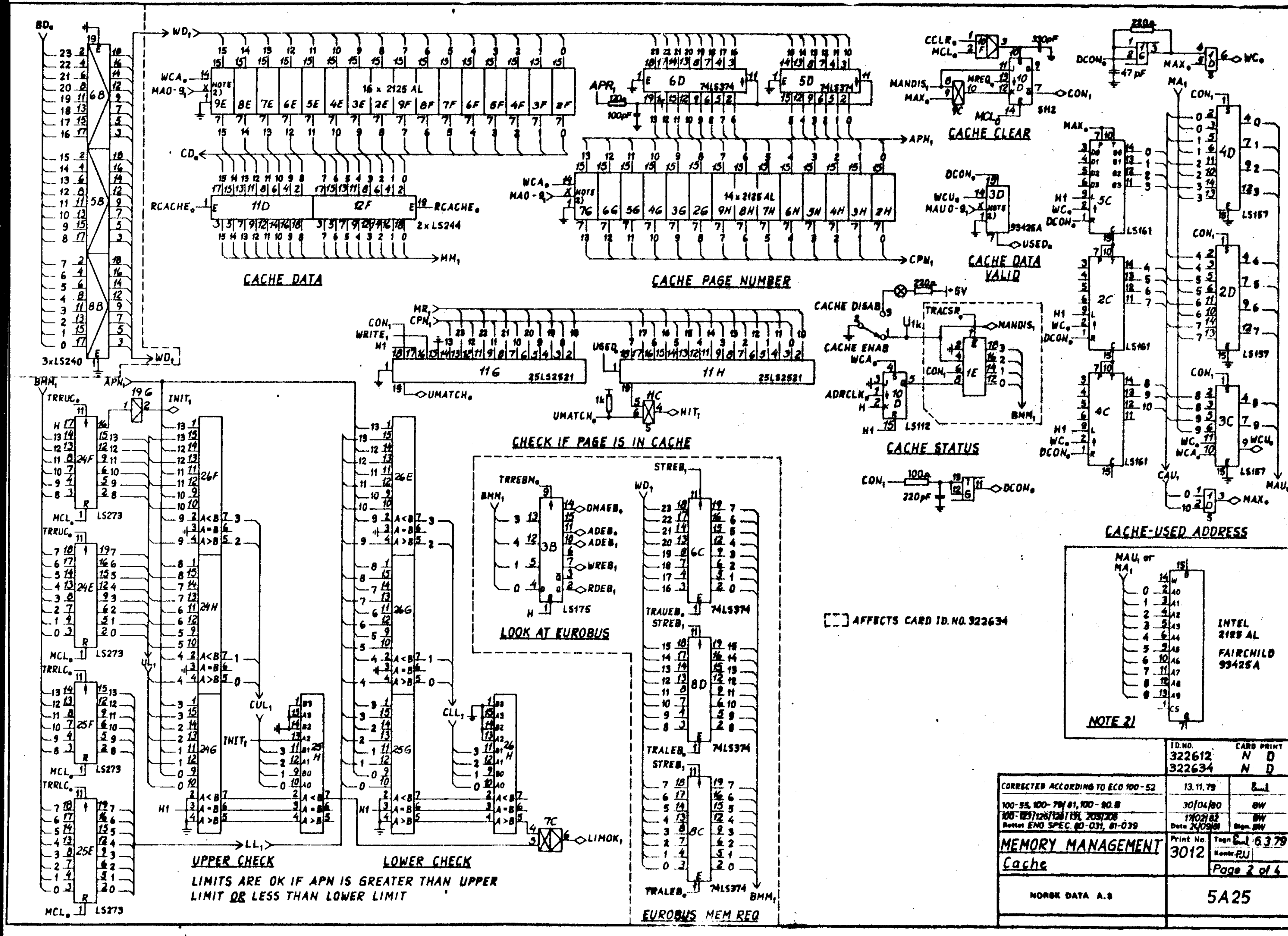
6.3.79

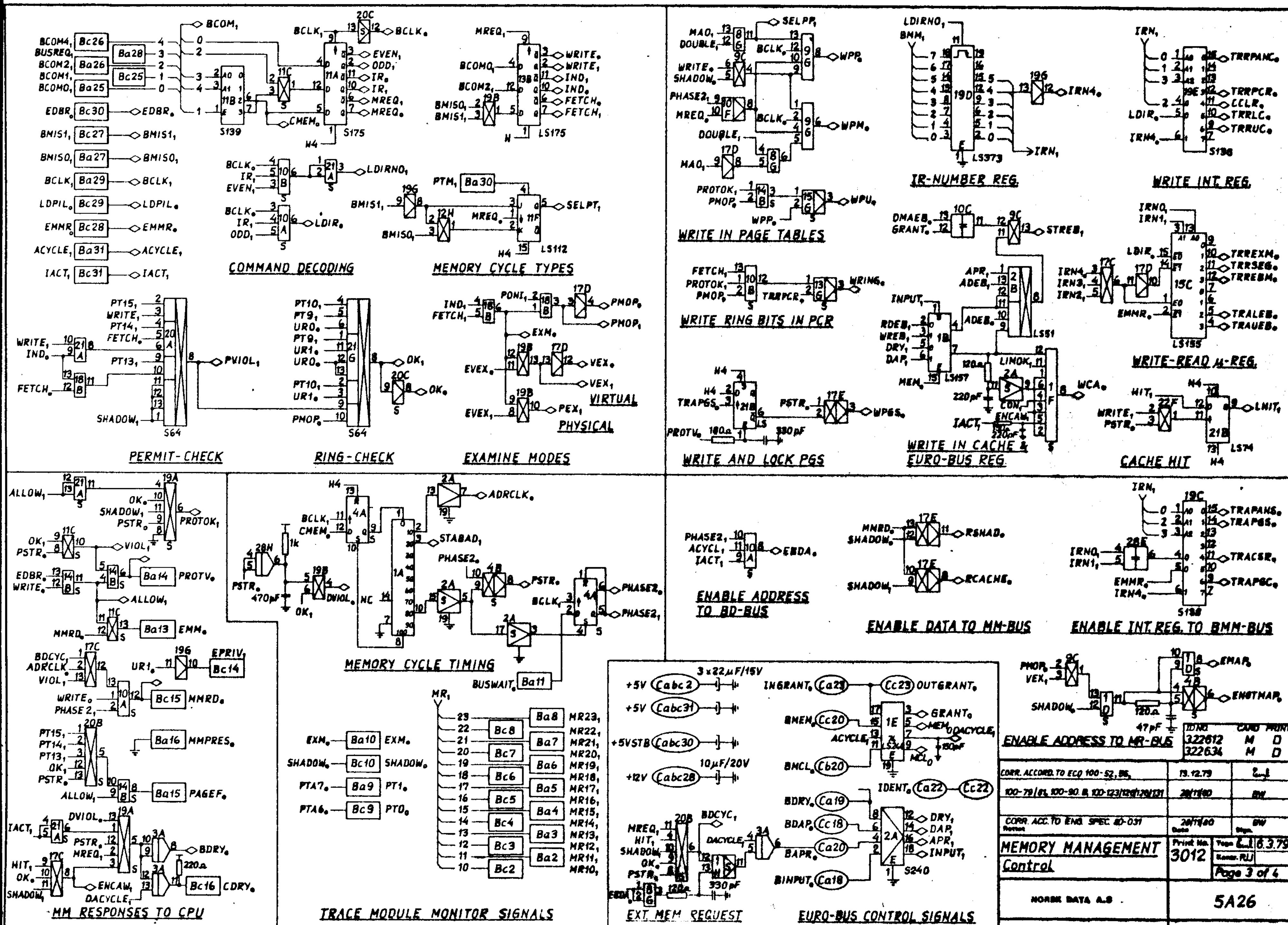
Kontr. RJ

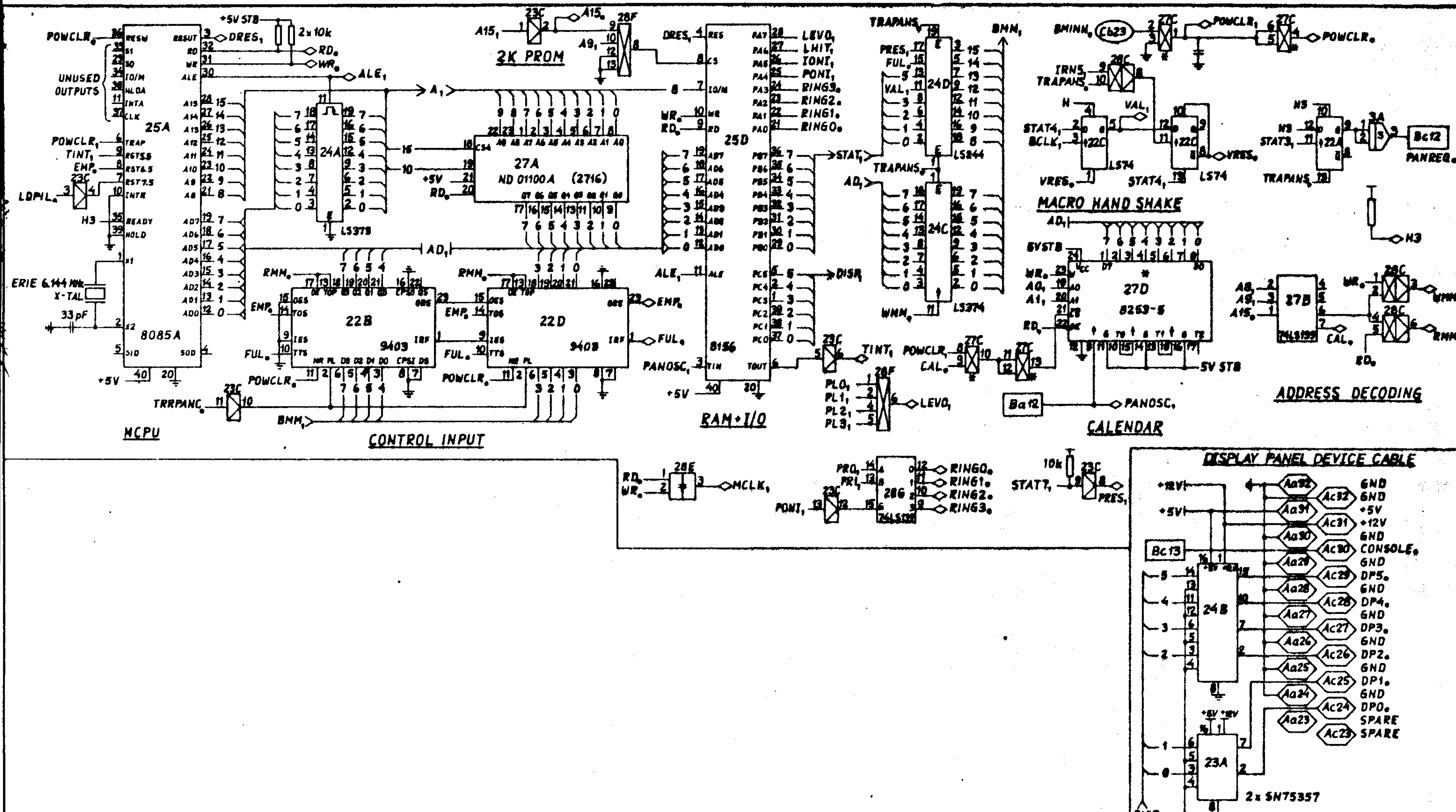
Page 1 of 4

NORSK DATA A.S

5A24


CACHE DATA
16 x 2125 AL
2 x LS244
3xLS240
CACHE PAGE NUMBER
14 x 2125 AL
CACHE CLEAR
CACHE DATA VALID
CACHE STATUS
CACHE-USED ADDRESS
CHECK IF PAGE IS IN CACHE
LOOK AT EUROBUS
EUROBUS MEM REQ
UPPER CHECK
LOWER CHECK
LIMITS ARE OK IF APN IS GREATER THAN UPPER
LIMIT OR LESS THAN LOWER LIMIT
AFFECTS CARD ID.NO. 322634
NOTE 2)
INTEL
2125 AL
FAIRCHILD
93425A
ID.NO.
322612
322634
CARD PRINT
N D
N D
CORRECTED ACCORDING TO ECO 100-52
13.11.79
100-55, 100-79, 81, 100-90.B
30/04/80
100-123/126/128/131, 203/208
17/02/82
Rettet ENO SPEC. 80-031, 81-039
Dato 21/09/81
MEMORY MANAGEMENT
Cache
Print No.
3012
Page 2 of 4
NORSK DATA A.S
5A25


COMMAND DECODING
MEMORY CYCLE TYPES
WRITE IN PAGE TABLES
IR-NUMBER REG.
WRITE INT. REG.
PERMIT-CHECK
RING-CHECK
EXAMINE MODES
VIRTUAL
PHYSICAL
WRITE RING BITS IN PCR
WRITE AND LOCK PGS
WRITE IN CACHE & EURO-BUS REG.
WRITE-READ µ-REG.
CACHE HIT
MEMORY CYCLE TIMING
ENABLE ADDRESS TO BD-BUS
ENABLE DATA TO MM-BUS
ENABLE INT. REG. TO BMM-BUS
ENABLE ADDRESS TO MR-BUS
MM RESPONSES TO CPU
TRACE MODULE MONITOR SIGNALS
EXT. MEM. REQUEST
EURO-BUS CONTROL SIGNALS
MEMORY MANAGEMENT
Control
NORSK DATA A.S
3012
Page 3 of 4
5A26
322612 M D
322634 M D
CORR. ACCORD. TO ECO 100-52, 86.
100-79/81, 100-90 & 100-123/128/129/131
CORR. ACC. TO ENG. SPEC. 80-031



IDNO	CARD	PRINT
322612	M	D
322634	M	D

CORRECTED ACCORDING TO ECO 100-52	13.11.79	
100-55, 100-79/81, 100-80 B	30/04/80	BW
100-123/126/128/131	29/11/80	BW
CORR ACC. TO ENG SPEC 80-031	24/11/80	BW
Rettet	Dato	Sign.

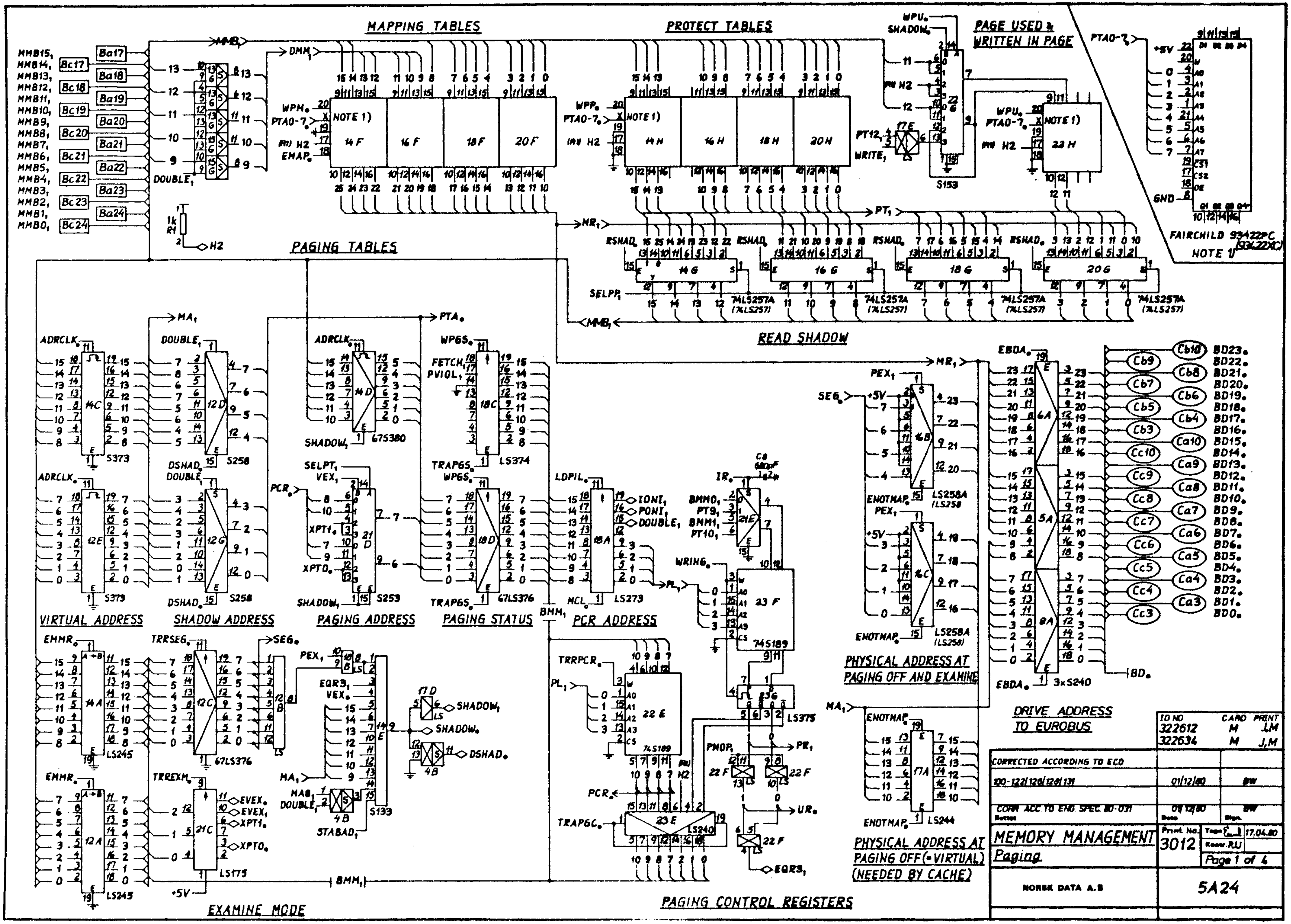
MEMORY MANAGEMENT
Display

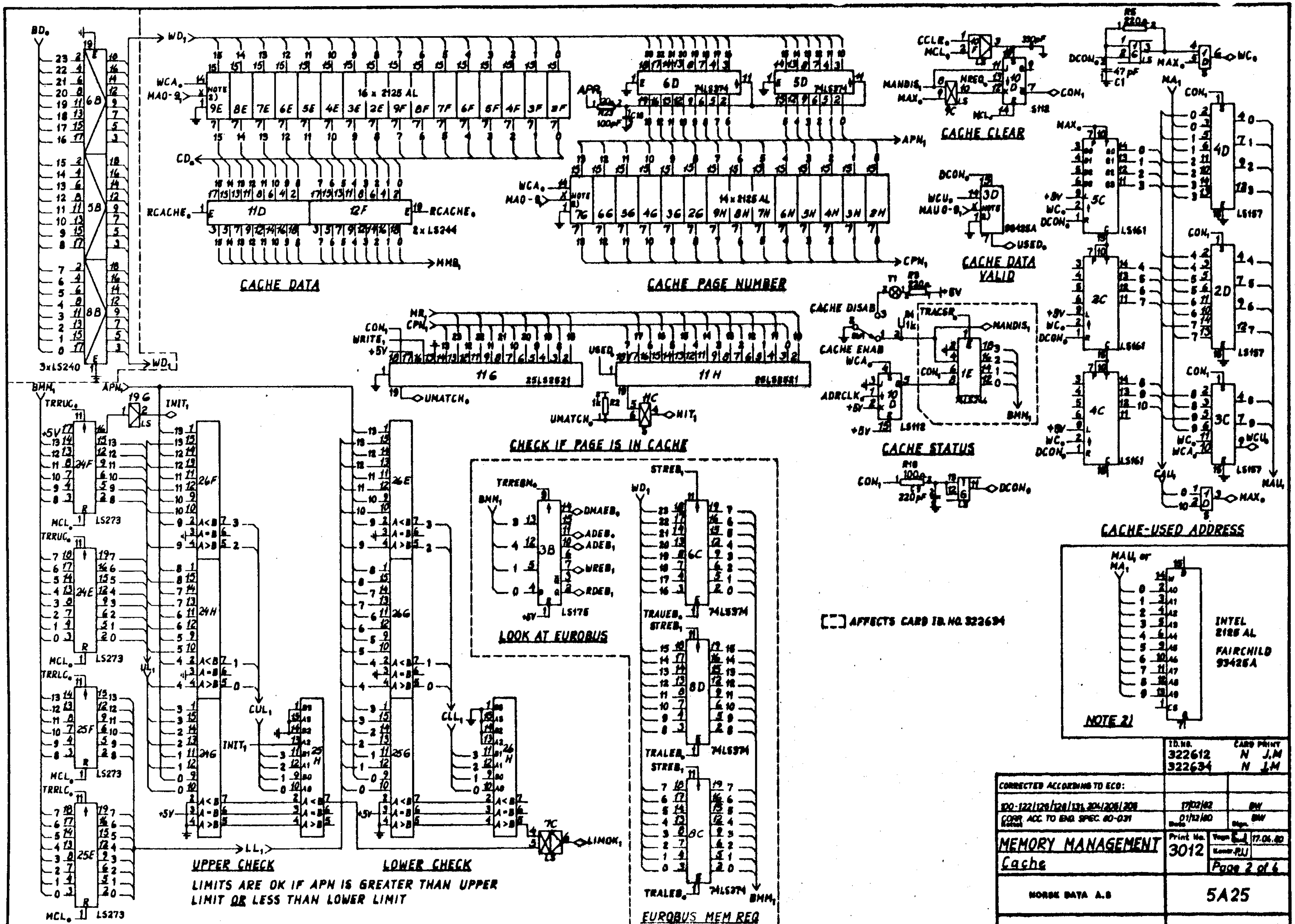
Print No. 3012 — Tegn. 6.3.79 — Kontr. PU

Page 4 of 4

NORSK DATA A.S

5A27


MAPPING TABLES
PROTECT TABLES
PAGE USED & WRITTEN IN PAGE
FAIRCHILD 93422PC (93L22XC)
NOTE 1)
PAGING TABLES
READ SHADOW
VIRTUAL ADDRESS
SHADOW ADDRESS
PAGING ADDRESS
PAGING STATUS
PCR ADDRESS
PHYSICAL ADDRESS AT PAGING OFF AND EXAMINE
DRIVE ADDRESS TO EUROBUS
PHYSICAL ADDRESS AT PAGING OFF (=VIRTUAL) (NEEDED BY CACHE)
EXAMINE MODE
PAGING CONTROL REGISTERS
ID NO 322612 322634
CARD M M
PRINT J.M J.M
CORRECTED ACCORDING TO ECO
100-122/126/128/131 01/12/80 BW
CORR ACC TO ENG SPEC 80-031 01/12/80 BW
MEMORY MANAGEMENT
Paging
Print No. 3012
17.04.80
Page 1 of 4
NORSK DATA A.S
5A24



ID. NO. 322612 — CARD PRINT N J.M
ID. NO. 322634 — CARD PRINT N J.M

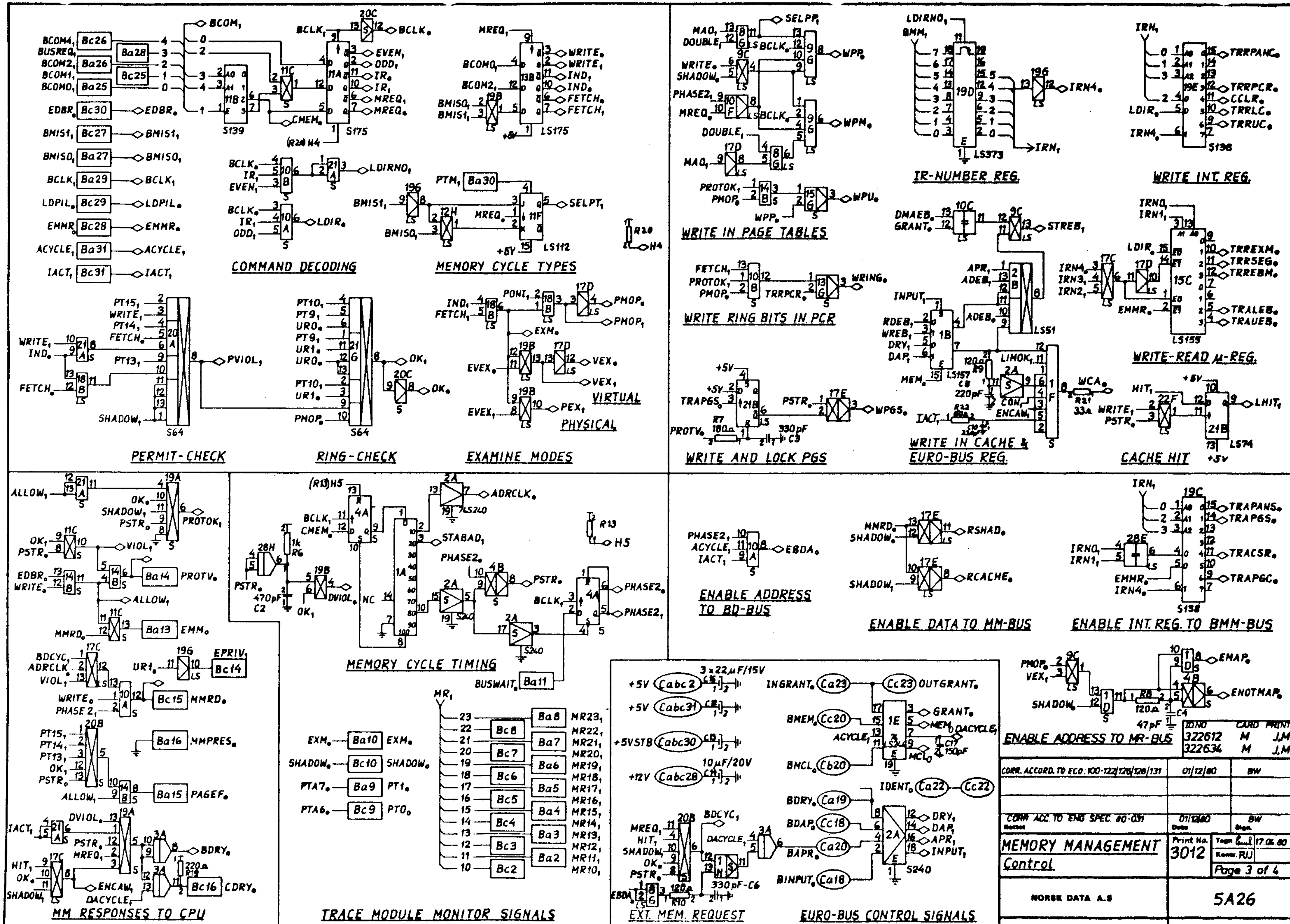
CORRECTED ACCORDING TO ECO:
100-122/126/128/131, 204/205/208 — 17/02/82 — BW
CORR. ACC. TO ENG. SPEC. 80-031 — 01/12/80 — BW

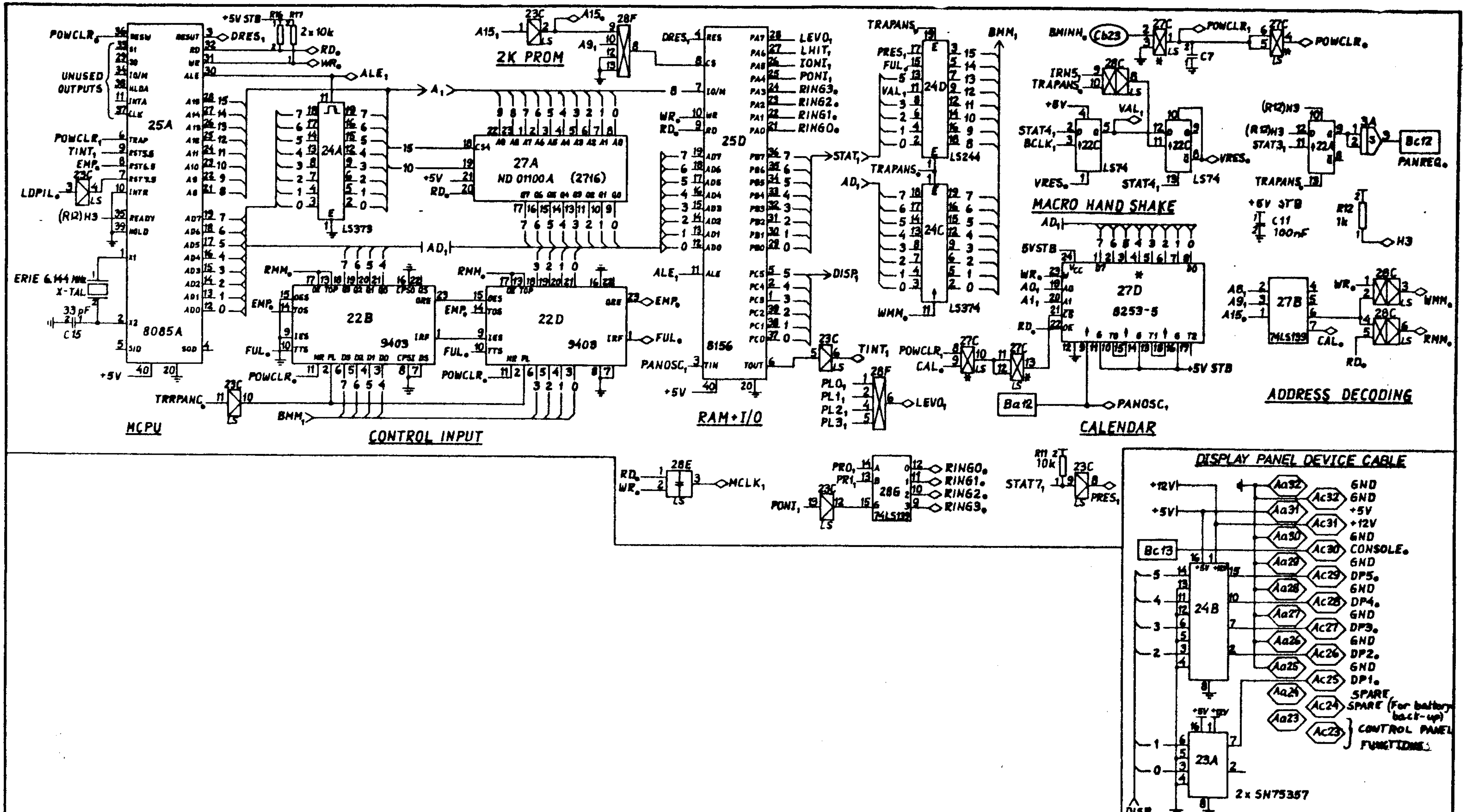
MEMORY MANAGEMENT
Cache

Print No. 3012 — 17.06.80 — Page 2 of 6

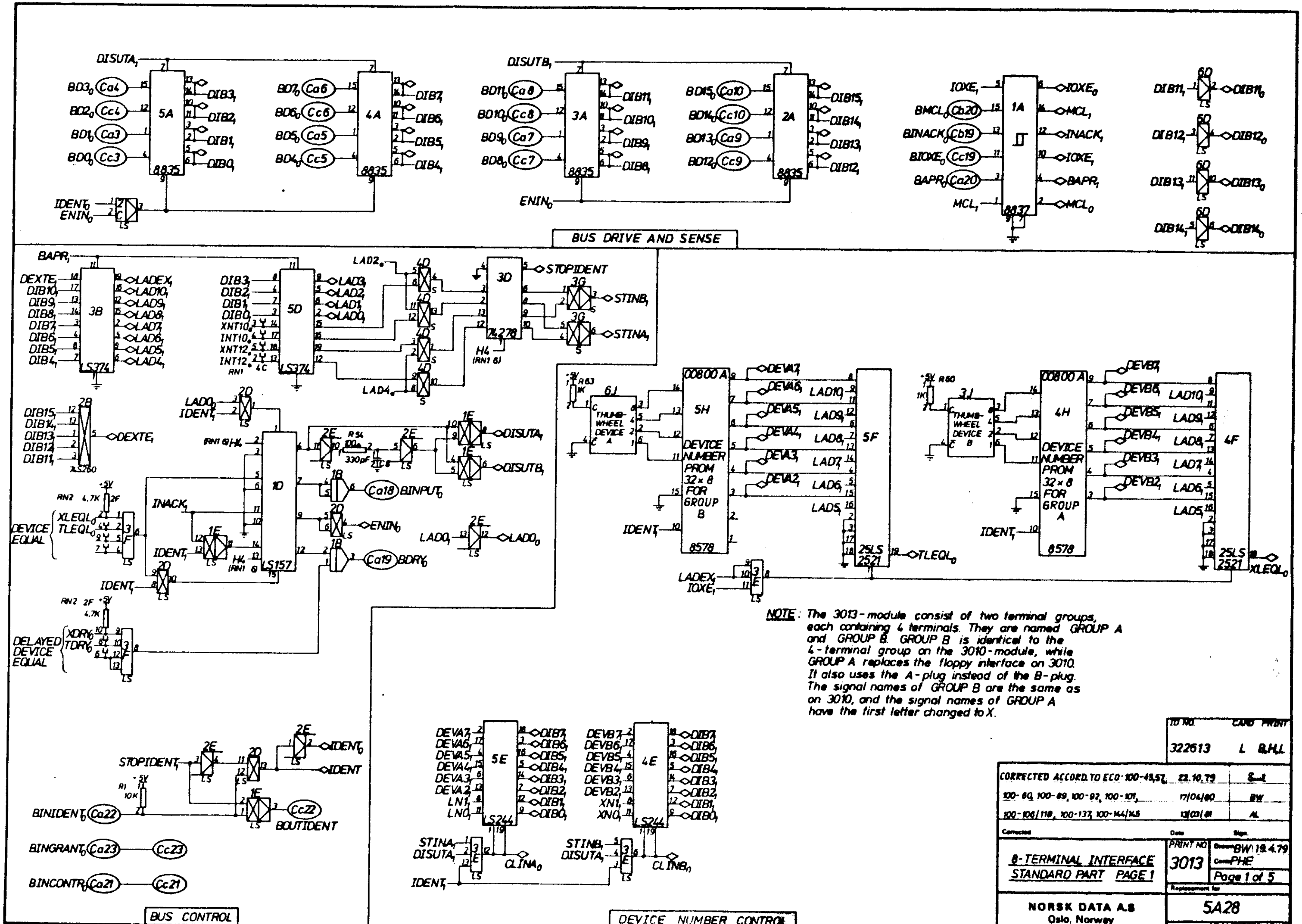
NORSK DATA A.S

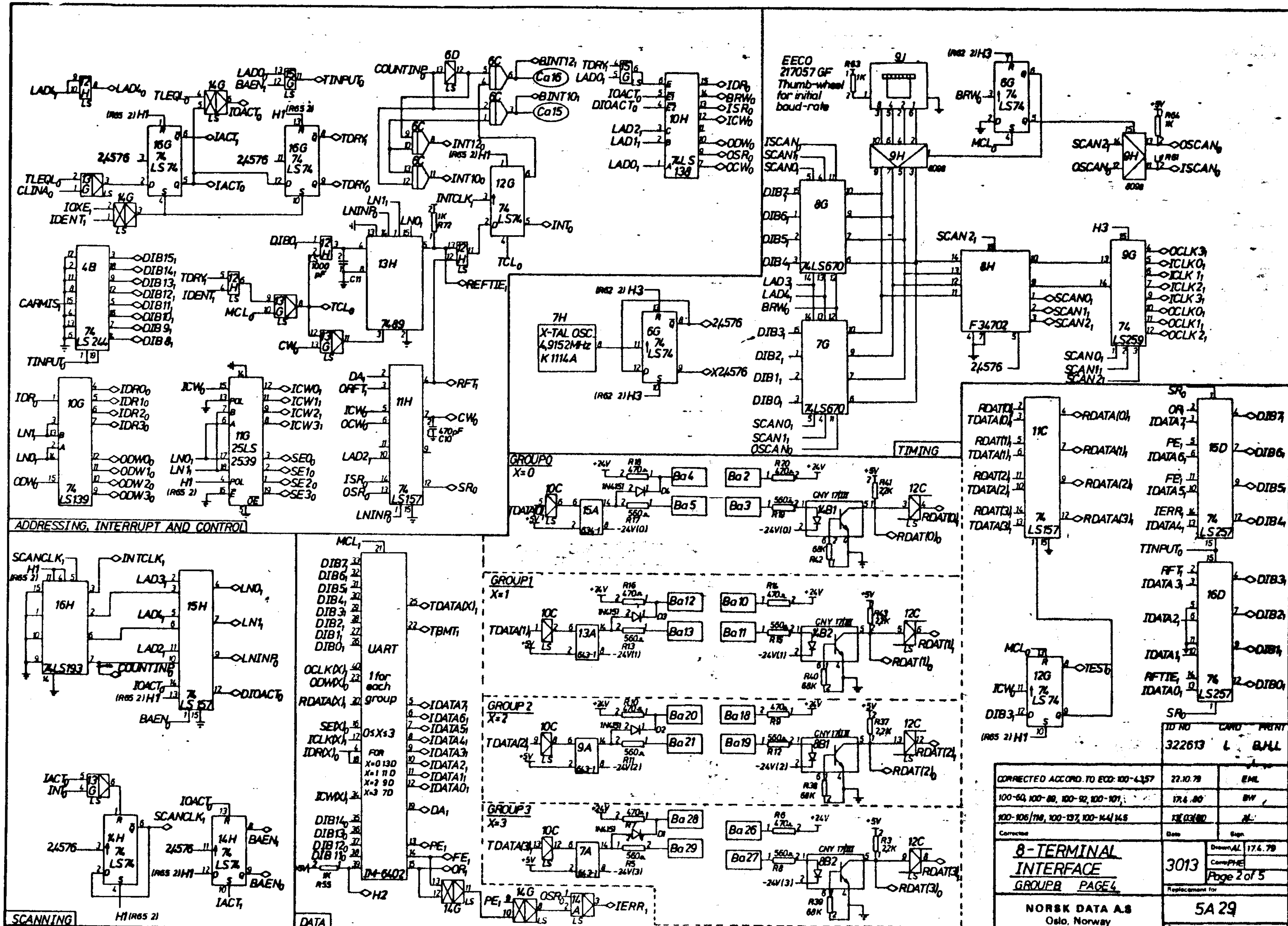
5A25

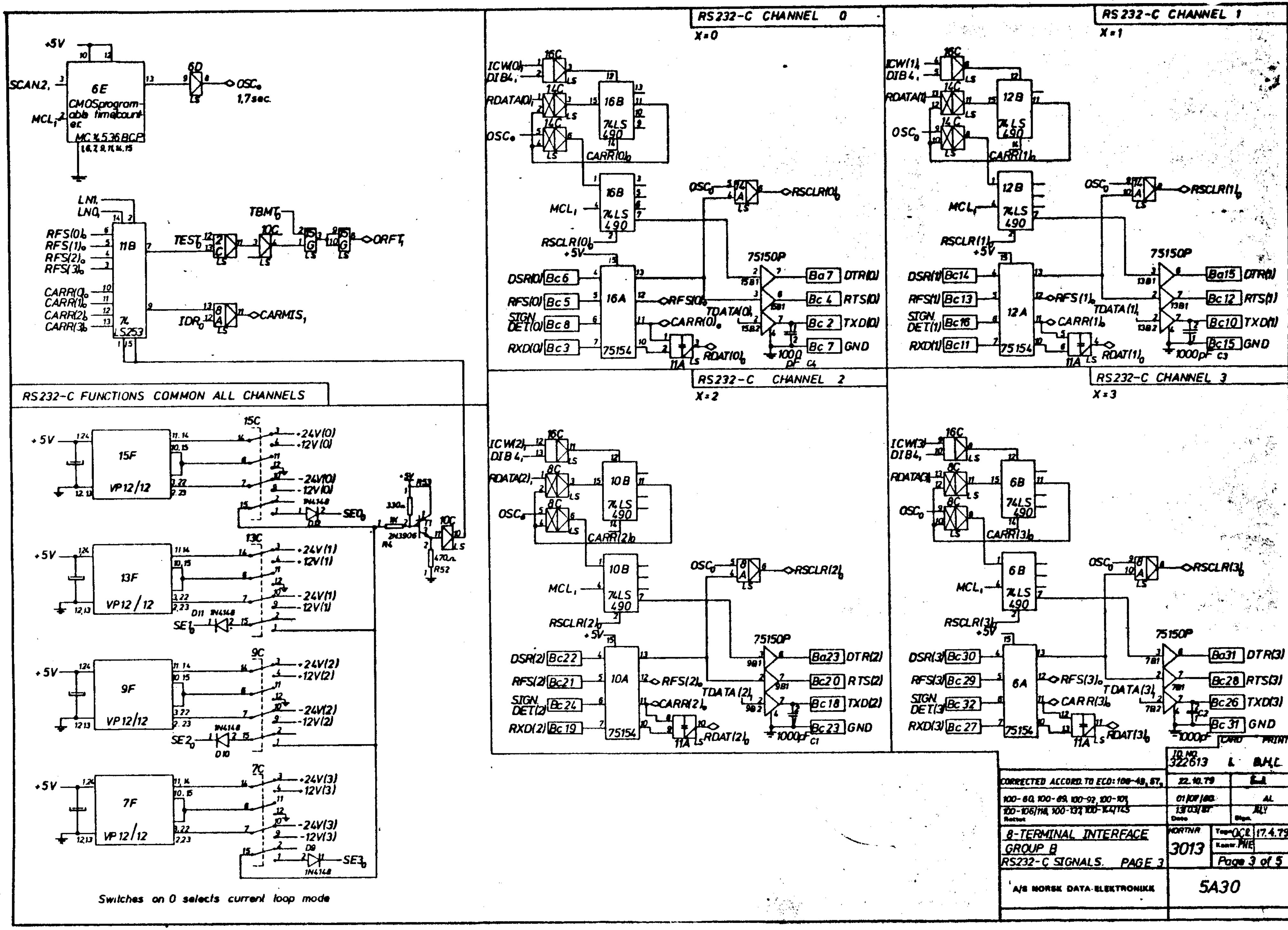

COMMAND DECODING
MEMORY CYCLE TYPES
PERMIT-CHECK
RING-CHECK
EXAMINE MODES
VIRTUAL
PHYSICAL
WRITE IN PAGE TABLES
IR-NUMBER REG.
WRITE INT. REG.
WRITE RING BITS IN PCR
WRITE-READ μ-REG.
WRITE AND LOCK PGS
WRITE IN CACHE & EURO-BUS REG.
CACHE HIT
MM RESPONSES TO CPU
MEMORY CYCLE TIMING
TRACE MODULE MONITOR SIGNALS
ENABLE ADDRESS TO BD-BUS
ENABLE DATA TO MM-BUS
ENABLE INT. REG. TO BMM-BUS
ENABLE ADDRESS TO MR-BUS
EXT. MEM. REQUEST
EURO-BUS CONTROL SIGNALS
CORR. ACCORD. TO ECO: 100-122/126/128/131 01/12/80 BW
CORR. ACC. TO ENG SPEC 80-031 01/12/80 BW
IDNO 322612 322634 CARD M M PRINT J.M J.M
MEMORY MANAGEMENT
Control
Print No. 3012
Page 3 of 4
NORSK DATA A.S
5A26

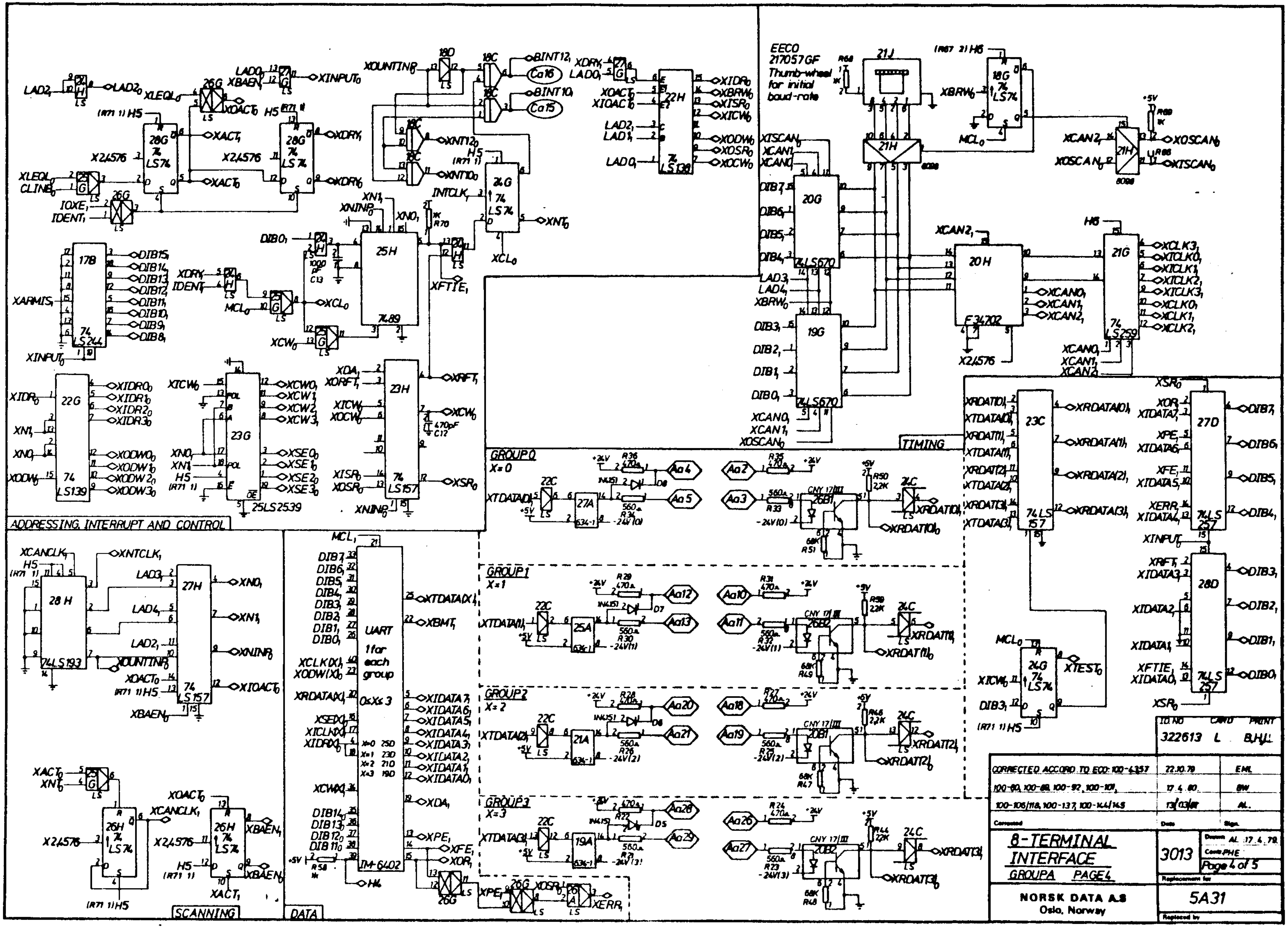


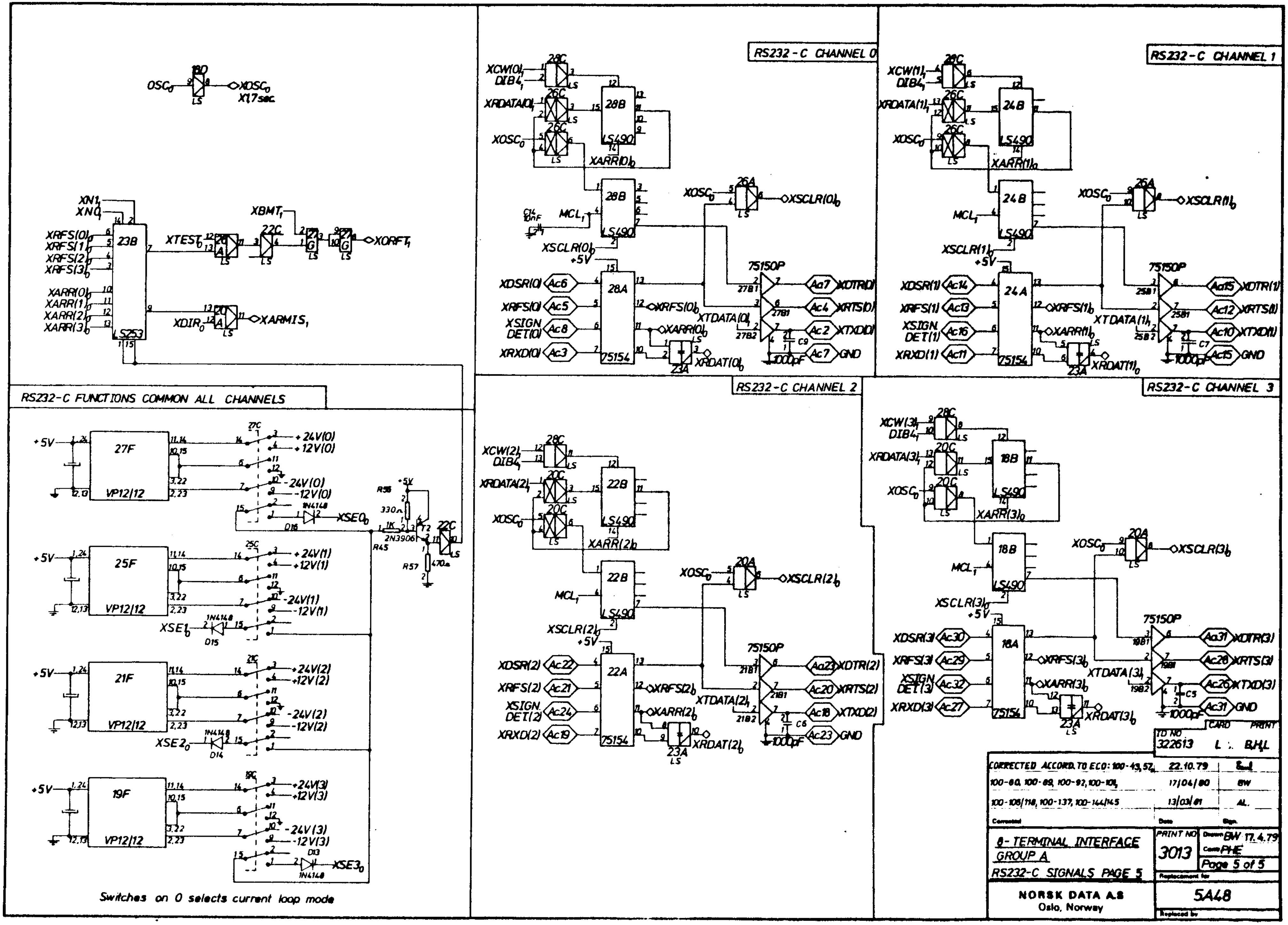
		IDNO 322612 322634	CARD M M · PRINT 1M 1M
CORRECTED ACCORDING TO ECO 100-122/126/128/131	01/13/80	BW	
CORR ACC. TO ENG. SPEC. 80-031	01/12/80	BW	
MEMORY MANAGEMENT Display	Print No. 3012	17.04.80 Kontr. PJJ	Page 4 of 4
NORSK DATA A.S	5A27		

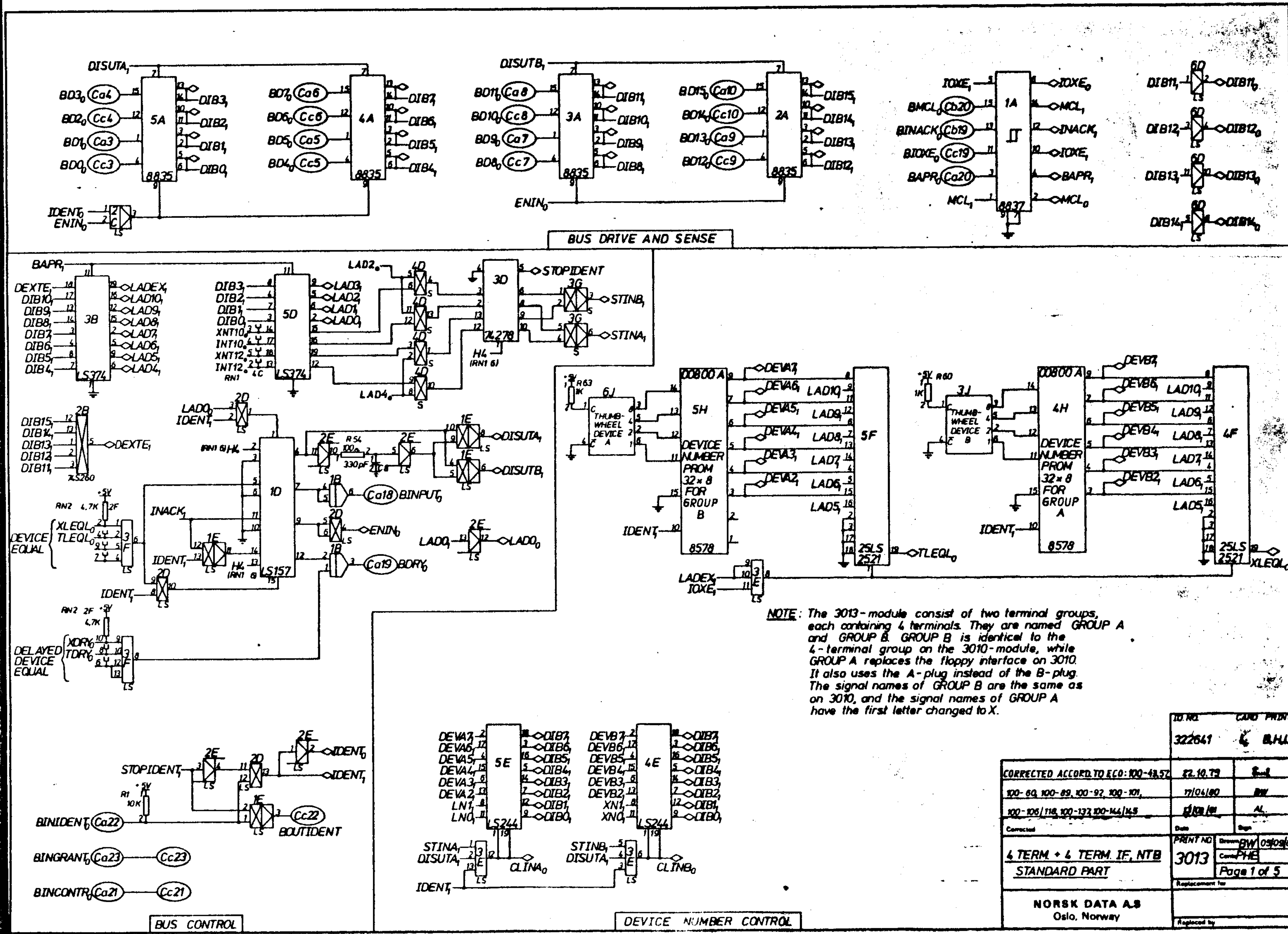

BUS DRIVE AND SENSE
BUS CONTROL
DEVICE NUMBER CONTROL
NOTE: The 3013-module consist of two terminal groups, each containing 4 terminals. They are named GROUP A and GROUP B. GROUP B is identical to the 4-terminal group on the 3010-module, while GROUP A replaces the floppy interface on 3010. It also uses the A-plug instead of the B-plug. The signal names of GROUP B are the same as on 3010, and the signal names of GROUP A have the first letter changed to X.
DEVICE NUMBER PROM 32×8 FOR GROUP A
DEVICE NUMBER PROM 32×8 FOR GROUP B
THUMB-WHEEL DEVICE A
THUMB-WHEEL DEVICE B
DEVICE EQUAL
DELAYED DEVICE EQUAL
TD NO. 322613
CARD PRINT L B,H,L
CORRECTED ACCORD. TO ECO: 100-43,57, 23.10.79
100-80, 100-89, 100-92, 100-101, 17/04/80 BW
100-106/118, 100-137, 100-144/145 13/03/81 AL
8-TERMINAL INTERFACE
STANDARD PART PAGE 1
PRINT NO 3013
Drawn BW 19.4.79
Contr. PHE
Page 1 of 5
5A28
NORSK DATA A.S
Oslo, Norway

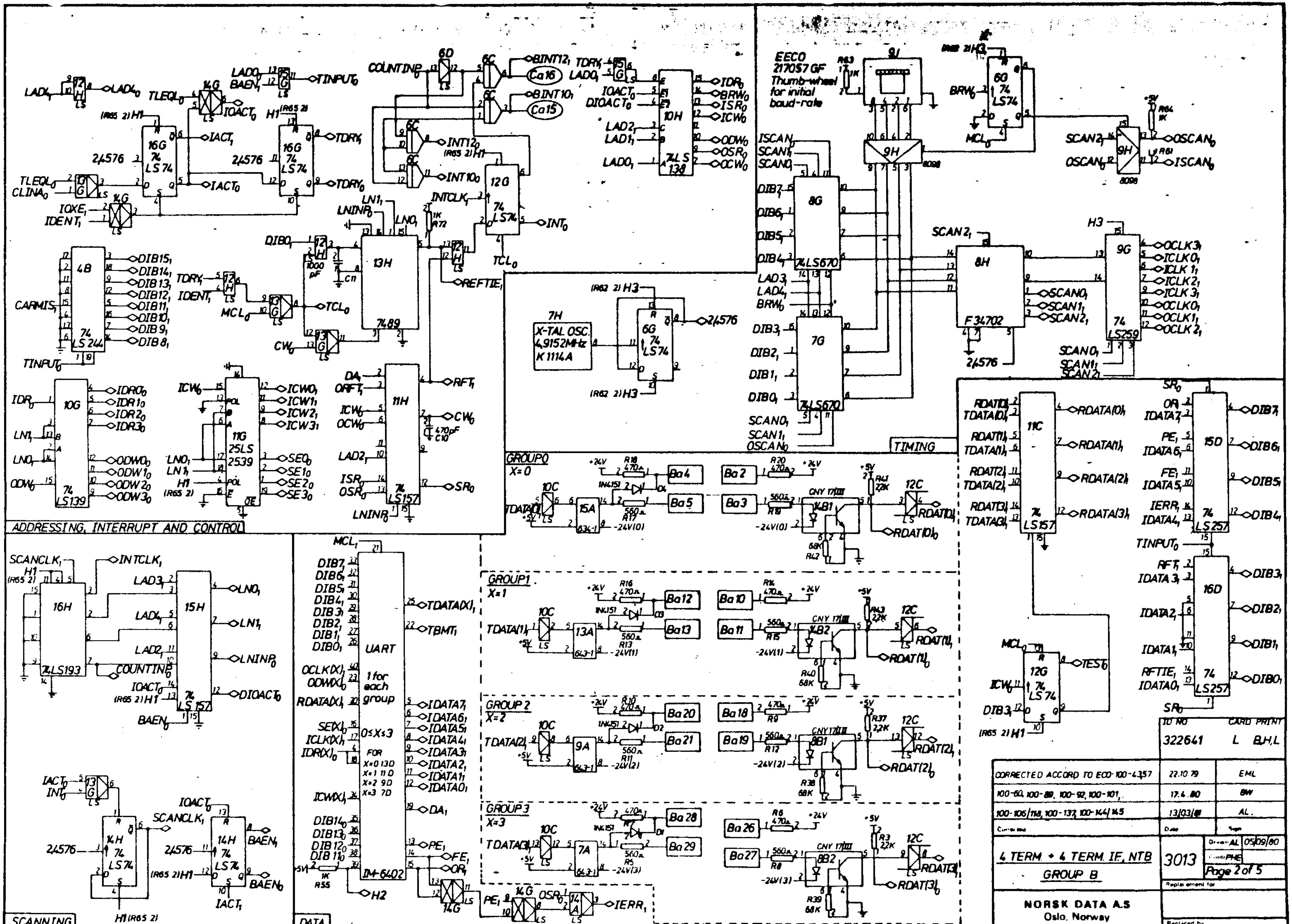

ADDRESSING, INTERRUPT AND CONTROL
TIMING
SCANNING
DATA
GROUP 0 X=0
GROUP 1 X=1
GROUP 2 X=2
GROUP 3 X=3
EECO 217057 GF Thumb-wheel for initial baud-rate
X-TAL OSC. 4,9152MHz K1114A
UART
1 for each group
ID NO 322613
CARD L
PRINT B.H.L
CORRECTED ACCORD. TO ECO: 100-4,357
100-60, 100-88, 100-92, 100-101,
100-106/118, 100-137, 100-144/145
8-TERMINAL INTERFACE
GROUP B PAGE 4
3013
Page 2 of 5
NORSK DATA A.S
Oslo, Norway
5A29


RS232-C CHANNEL 0
X=0
RS232-C CHANNEL 1
X=1
RS232-C CHANNEL 2
X=2
RS232-C CHANNEL 3
X=3
RS232-C FUNCTIONS COMMON ALL CHANNELS
Switches on 0 selects current loop mode
CORRECTED ACCORD. TO ECO: 100-48, 87,
8-TERMINAL INTERFACE
GROUP B
RS232-C SIGNALS. PAGE 3
A/S NORSK DATA-ELEKTRONIKK
3013
Page 3 of 5
5A30

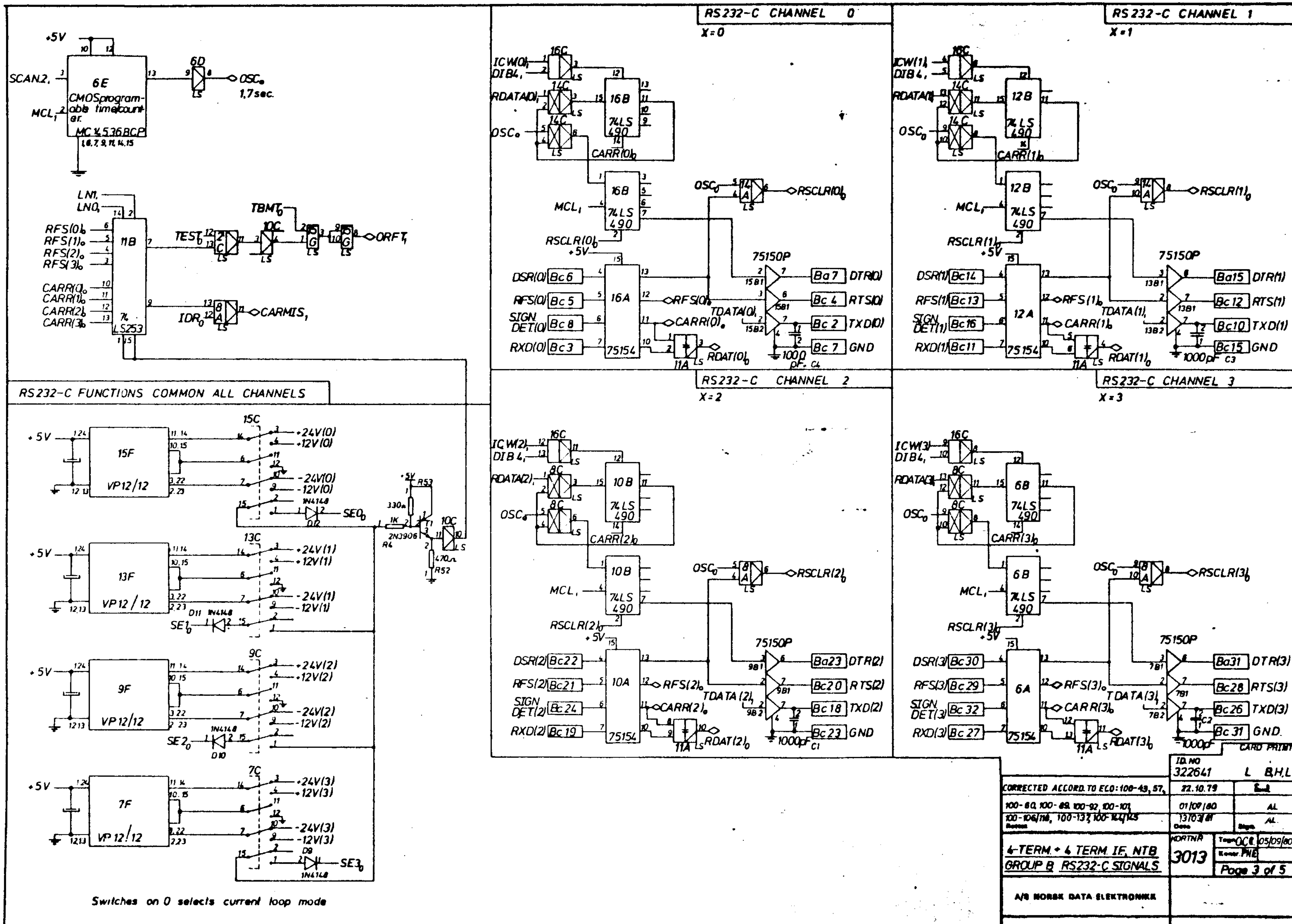

ADDRESSING, INTERRUPT AND CONTROL
SCANNING
DATA
TIMING
GROUP 0 X=0
GROUP 1 X=1
GROUP 2 X=2
GROUP 3 X=3
UART 1 for each group
EECO 217057GF Thumb-wheel for initial baud-rate
CORRECTED ACCORD. TO ECO: 100-4357
100-80, 100-88, 100-92, 100-101,
100-106/118, 100-137, 100-144/145
8-TERMINAL INTERFACE
GROUPA PAGE4
NORSK DATA A.S
Oslo, Norway
322613 L B.H.L.
3013
Page 4 of 5
5A31

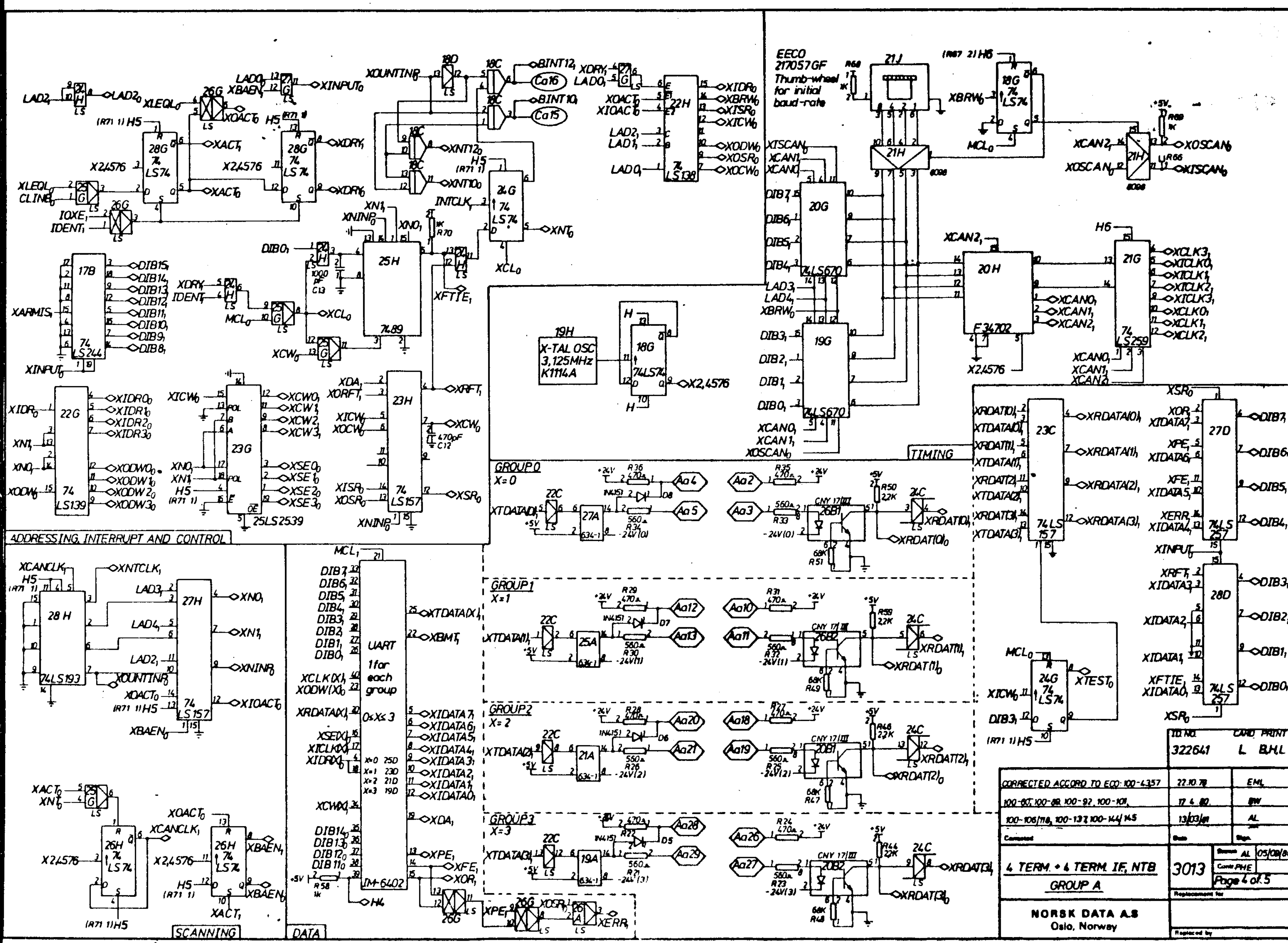

RS232-C CHANNEL 0
RS232-C CHANNEL 1
RS232-C CHANNEL 2
RS232-C CHANNEL 3
RS232-C FUNCTIONS COMMON ALL CHANNELS
Switches on 0 selects current loop mode
CORRECTED ACCORD. TO ECO: 100-43, 57 22.10.79
100-60, 100-89, 100-92, 100-101 17/04/80 BW
100-108/118, 100-137, 100-144/145 13/03/81 AL.
TD NO 322613
8-TERMINAL INTERFACE GROUP A
RS232-C SIGNALS PAGE 5
PRINT NO 3013
BW 17.4.79
PHE
Page 5 of 5
NORSK DATA A.S
Oslo, Norway
5A48

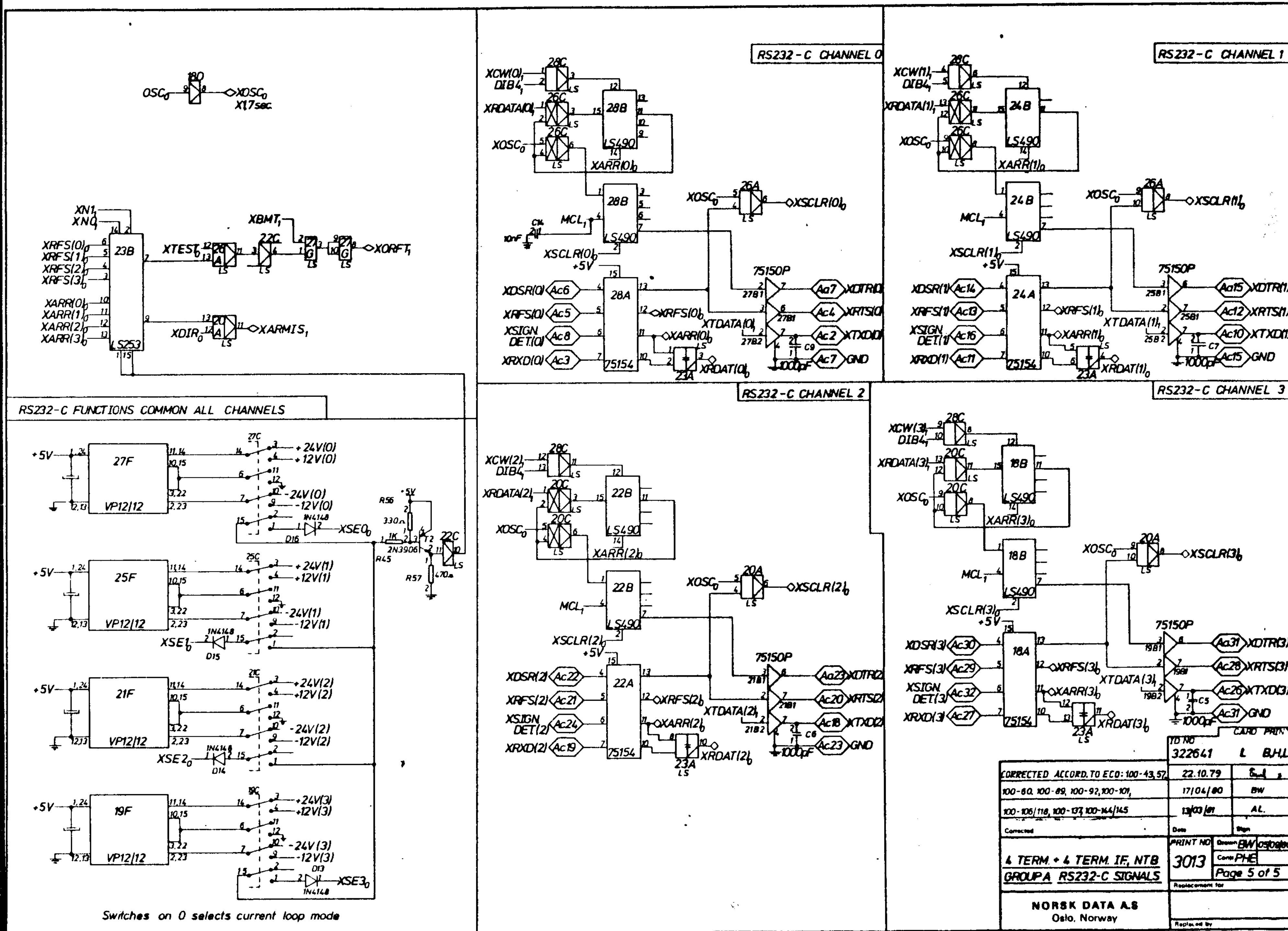

BUS DRIVE AND SENSE
BUS CONTROL
DEVICE NUMBER CONTROL
NOTE: The 3013-module consist of two terminal groups, each containing 4 terminals. They are named GROUP A and GROUP B. GROUP B is identical to the 4-terminal group on the 3010-module, while GROUP A replaces the floppy interface on 3010. It also uses the A-plug instead of the B-plug. The signal names of GROUP B are the same as on 3010, and the signal names of GROUP A have the first letter changed to X.
DEVICE NUMBER PROM 32 x 8 FOR GROUP A
DEVICE NUMBER PROM 32 x 8 FOR GROUP B
THUMB-WHEEL DEVICE A
THUMB-WHEEL DEVICE B
DEVICE EQUAL
DELAYED DEVICE EQUAL
ID. NO. 322641
CARD PRINT 4 B.H.J.
CORRECTED ACCORD. TO ECO: 100-43,57 22.10.79
100-60, 100-89, 100-92, 100-101, 17/04/80
100-106/118, 100-132, 100-144/145
4 TERM. + 4 TERM. IF, NTB
STANDARD PART
PRINT NO 3013
Page 1 of 5
NORSK DATA A.S
Oslo, Norway

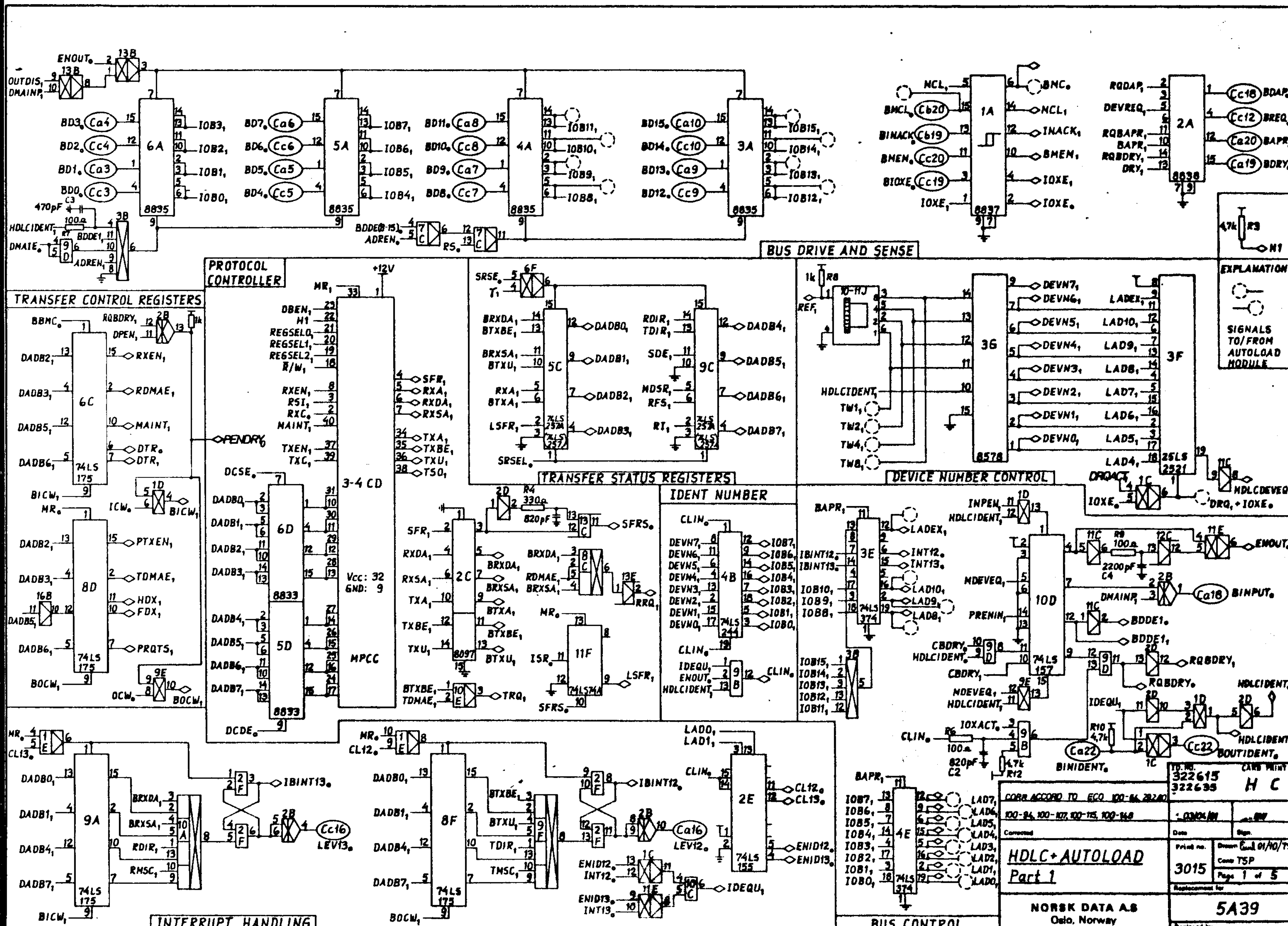


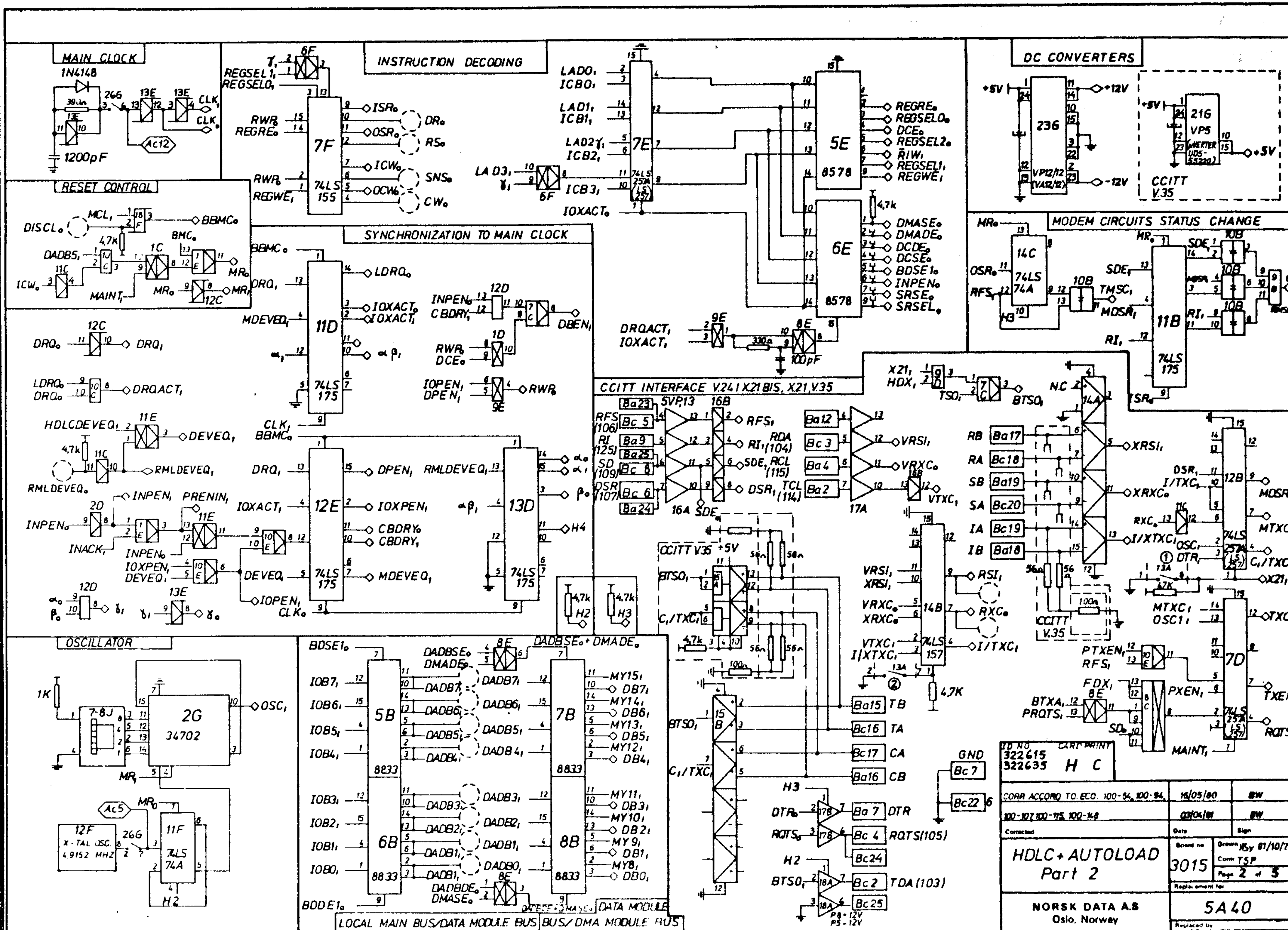
ADDRESSING, INTERRUPT AND CONTROL
SCANNING
DATA
TIMING
GROUP 0 X=0
GROUP 1 X=1
GROUP 2 X=2
GROUP 3 X=3
EECO 2170S7 GF Thumb-wheel for initial baud-rate
X-TAL OSC. 4,9152MHz K 1114A
UART 1 for each group
CORRECTED ACCORD TO ECO-100-4357
100-60, 100-89, 100-92, 100-101,
100-106/118, 100-137, 100-144/145
ID NO 322641
CARD PRINT L B.H.L
22.10.79 EML
17.4.80 BW
13/03/81 AL.
4 TERM. + 4 TERM. IF, NTB
GROUP B
3013
Page 2 of 5
05/09/80
NORSK DATA A.S
Oslo, Norway

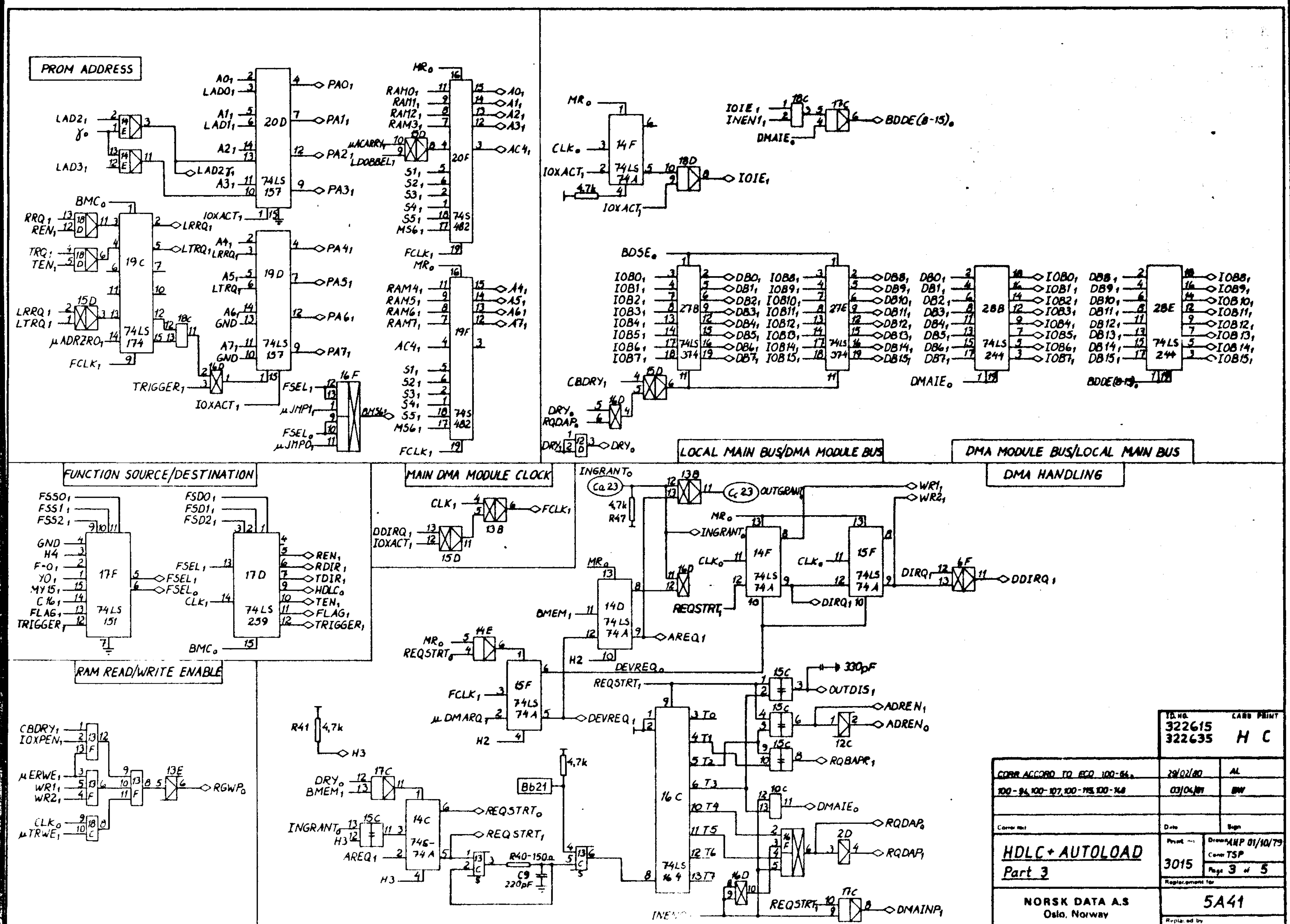

RS232-C CHANNEL 0
X=0
RS232-C CHANNEL 1
X=1
RS232-C CHANNEL 2
X=2
RS232-C CHANNEL 3
X=3
RS232-C FUNCTIONS COMMON ALL CHANNELS
6E
CMOS programable timer/counter
MC 14536BCP
OSC0 1,7sec.
SCAN2
MCL1
11B
74LS253
TEST0
TBMT0
ORFT1
CARMIS1
IDR0
16B
12B
10B
6B
74LS490
16A
12A
10A
6A
75154
75150P
15F
13F
9F
7F
VP12/12
15C
13C
9C
7C
+24V(0)
+12V(0)
-24V(0)
-12V(0)
SE0
2N3906
Switches on 0 selects current loop mode
CORRECTED ACCORD. TO ECO: 100-43, 57, 100-60, 100-69, 100-92, 100-101, 100-106/118, 100-133, 100-144/145
ID. NO 322641
L B,H,L
22.10.79
01/09/80
13/03/81
AL
3013
OCE 05/09/80
4-TERM. + 4 TERM. IF. NTB
GROUP B RS232-C SIGNALS
Page 3 of 5
A/S NORSK DATA ELEKTRONIKK
CARD PRINT

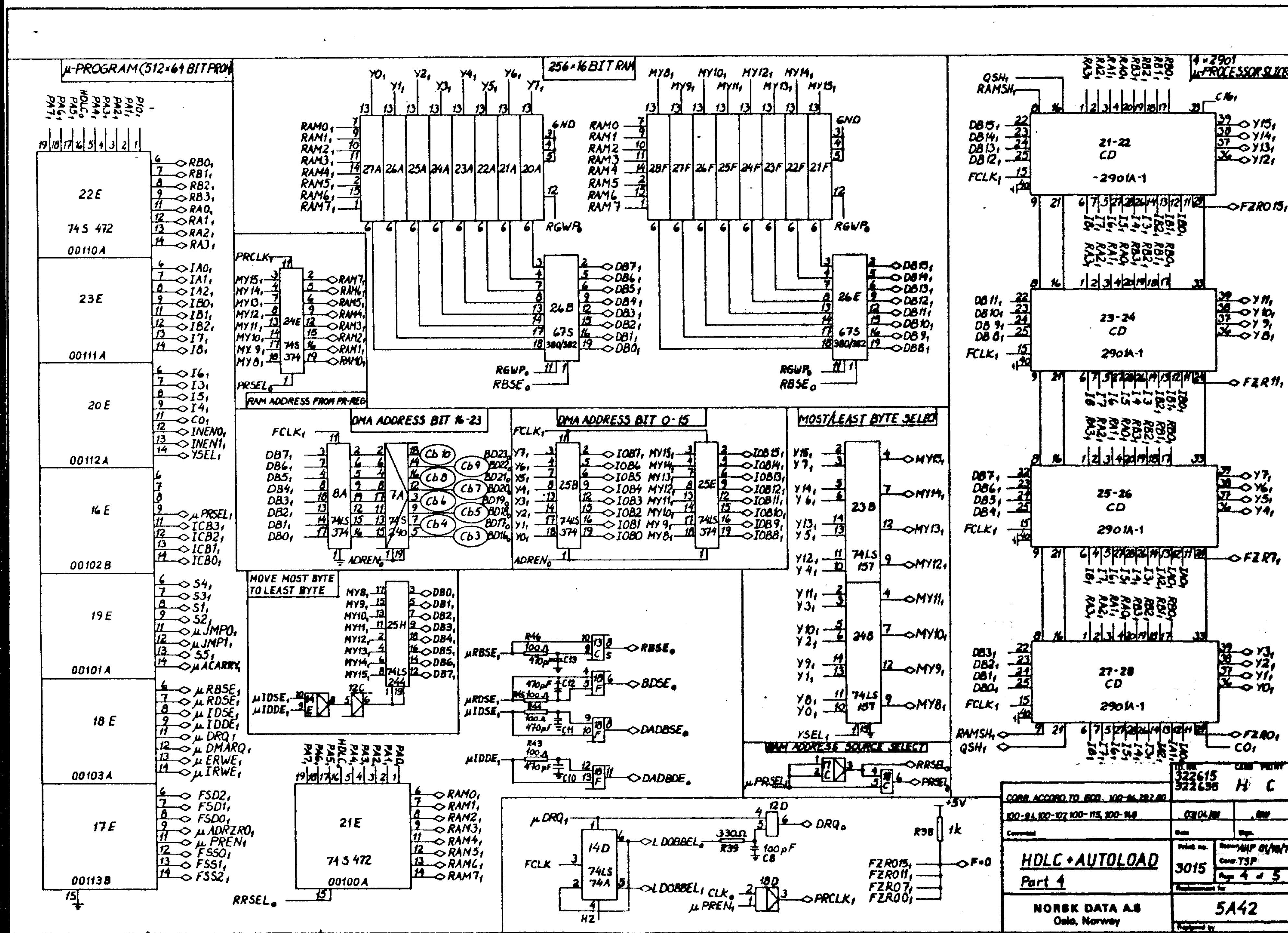

ADDRESSING, INTERRUPT AND CONTROL
SCANNING
DATA
TIMING
GROUP 0
X=0
GROUP 1
X=1
GROUP 2
X=2
GROUP 3
X=3
EECO
217057GF
Thumb-wheel
for initial
baud-rate
X-TAL OSC
3,125MHz
K1114A
UART
1for
each
group
0≤X≤3
ID NO. 322641
CARD PRINT L B.H.L
CORRECTED ACCORD TO ECO 100-4357 22.10.78 EML
100-60, 100-89, 100-92, 100-101, 17.4.80 BW
100-106/118, 100-137, 100-144/145 13/03/81 AL
4 TERM. + 4 TERM. IF, NTB
GROUP A
3013
Page 4 of 5
AL 05/09/80
PHE
NORSK DATA A.S
Oslo, Norway


RS232-C CHANNEL 0
RS232-C CHANNEL 1
RS232-C CHANNEL 2
RS232-C CHANNEL 3
RS232-C FUNCTIONS COMMON ALL CHANNELS
Switches on 0 selects current loop mode
CORRECTED ACCORD. TO ECO: 100-43, 57, 100-60, 100-89, 100-92, 100-101, 100-106/118, 100-137, 100-144/145
22.10.79
17/04/80
13/03/81
BW
AL.
TD NO 322641 L B.H.L
PRINT NO 3013
Drawn BW 05/09/80
Contr PHE
Page 5 of 5
4 TERM. + 4 TERM. IF, NTB
GROUP A RS232-C SIGNALS
NORSK DATA A.S
Oslo, Norway

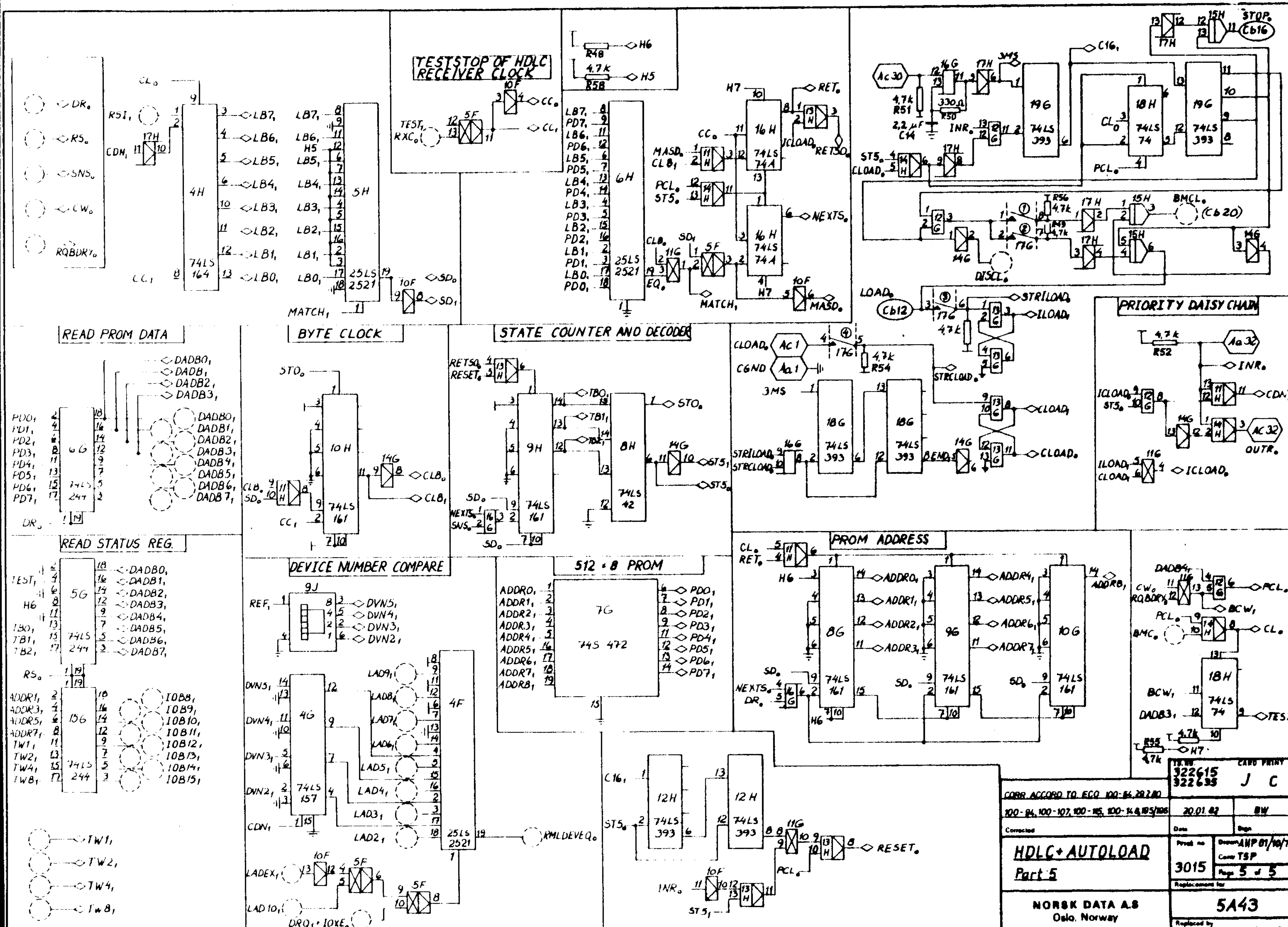

BUS DRIVE AND SENSE
PROTOCOL CONTROLLER
TRANSFER CONTROL REGISTERS
TRANSFER STATUS REGISTERS
IDENT NUMBER
DEVICE NUMBER CONTROL
INTERRUPT HANDLING
BUS CONTROL
EXPLANATION:
SIGNALS TO/FROM AUTOLOAD MODULE
322615
322695
H C
CORR ACCORD TO ECO 100-84, 282/80
100-94, 100-107, 100-115, 100-148
HDLC+AUTOLOAD
Part 1
3015
TSP
Page 1 of 5
NORSK DATA A.S
Oslo, Norway
5A39

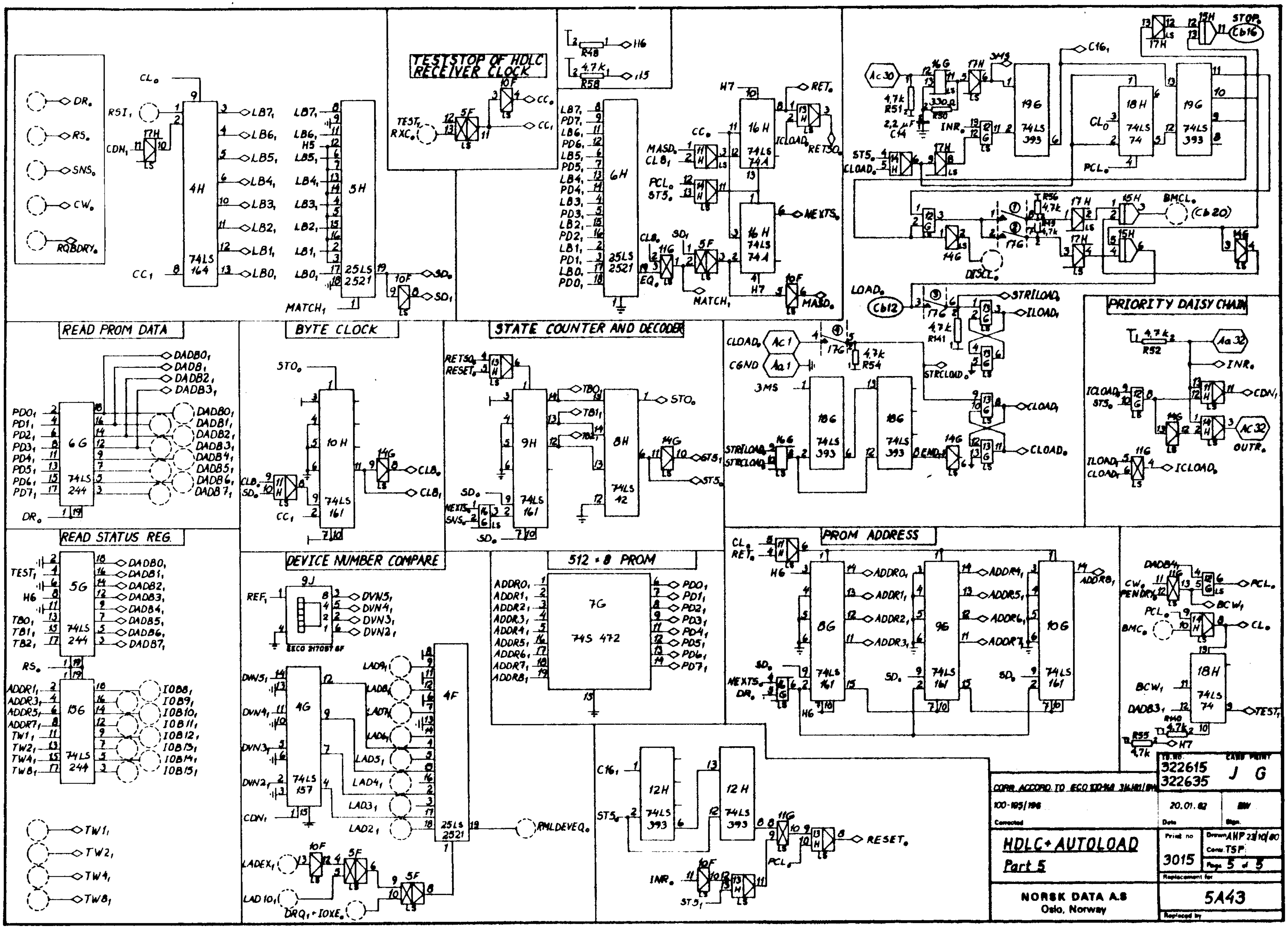

MAIN CLOCK
INSTRUCTION DECODING
DC CONVERTERS
RESET CONTROL
MODEM CIRCUITS STATUS CHANGE
SYNCHRONIZATION TO MAIN CLOCK
CCITT INTERFACE V.24 / X21 BIS, X21, V.35
CCITT V.35
OSCILLATOR
DATA MODULE
LOCAL MAIN BUS/DATA MODULE BUS
BUS/DMA MODULE BUS
CORR ACCORD TO ECO 100-54, 100-94,
100-107, 100-115, 100-148
HDLC + AUTOLOAD
Part 2
3015
NORSK DATA A.S
Oslo, Norway
5A40

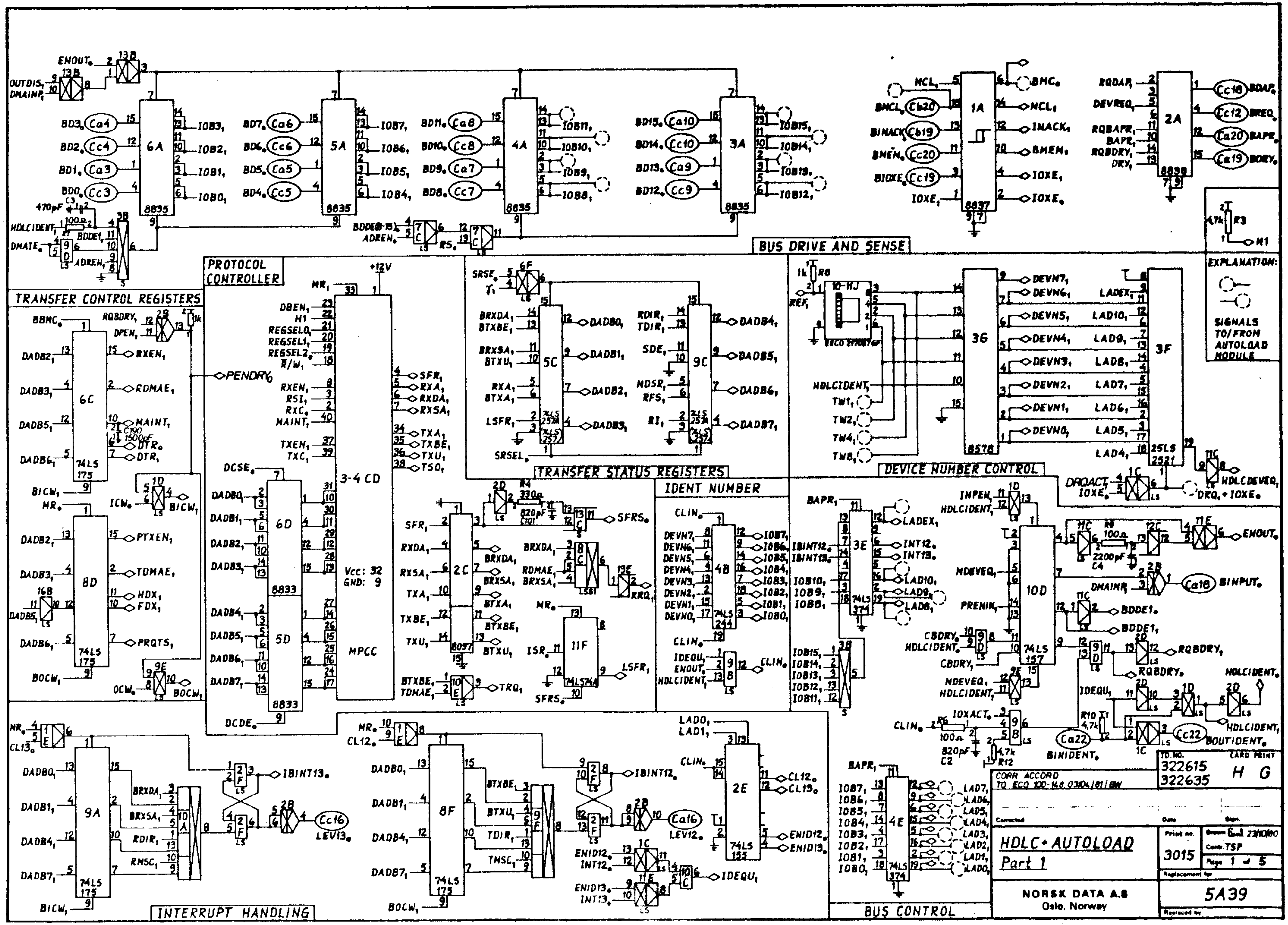

PROM ADDRESS
FUNCTION SOURCE/DESTINATION
RAM READ/WRITE ENABLE
MAIN DMA MODULE CLOCK
LOCAL MAIN BUS/DMA MODULE BUS
DMA MODULE BUS/LOCAL MAIN BUS
DMA HANDLING
322615
322635
H C
CORR ACCORD TO ECO 100-84
100-94, 100-107, 100-115, 100-148
29/02/80
03/04/81
HDLC + AUTOLOAD
Part 3
3015
3 of 5
NORSK DATA A.S
Oslo, Norway
5A41

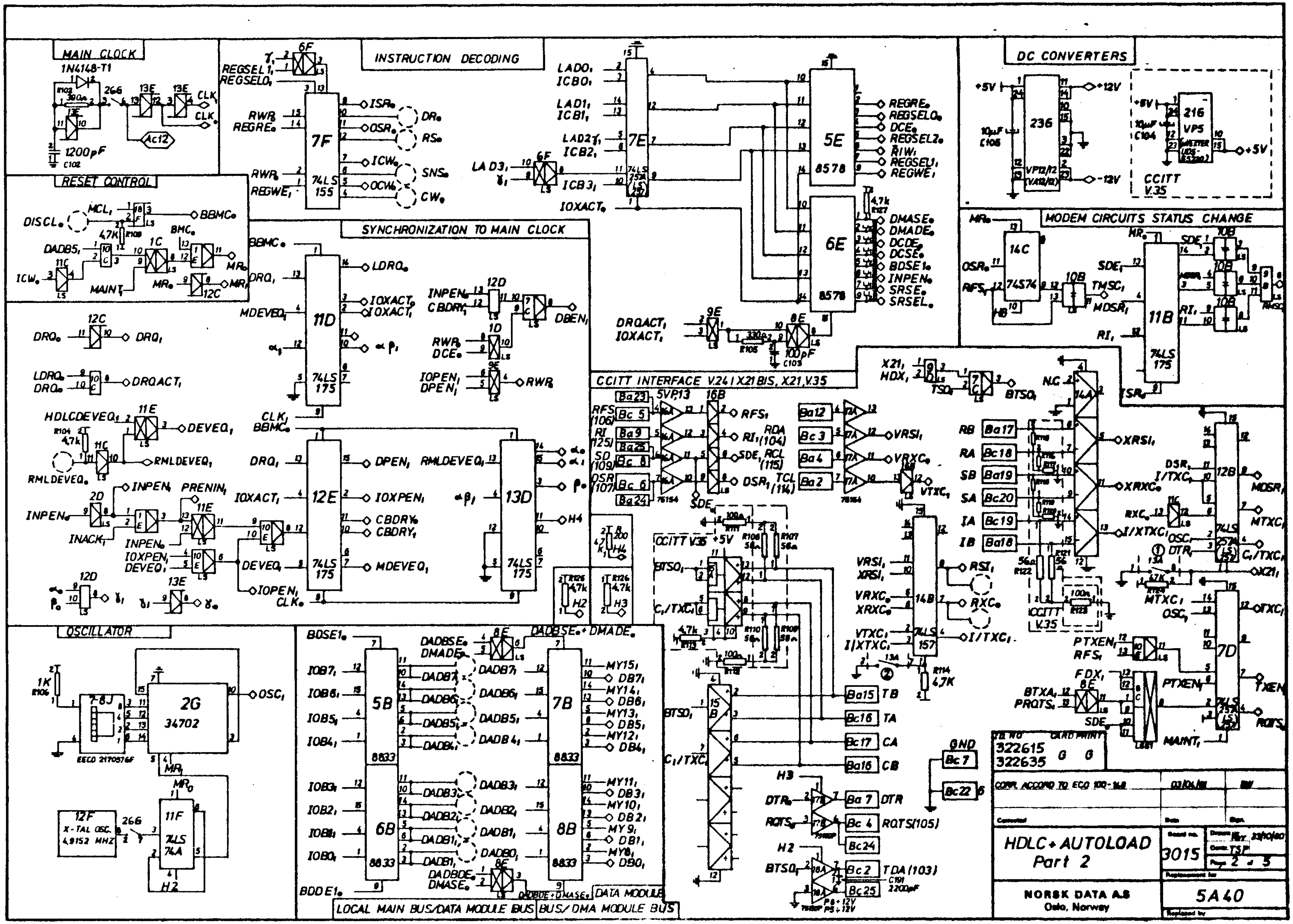


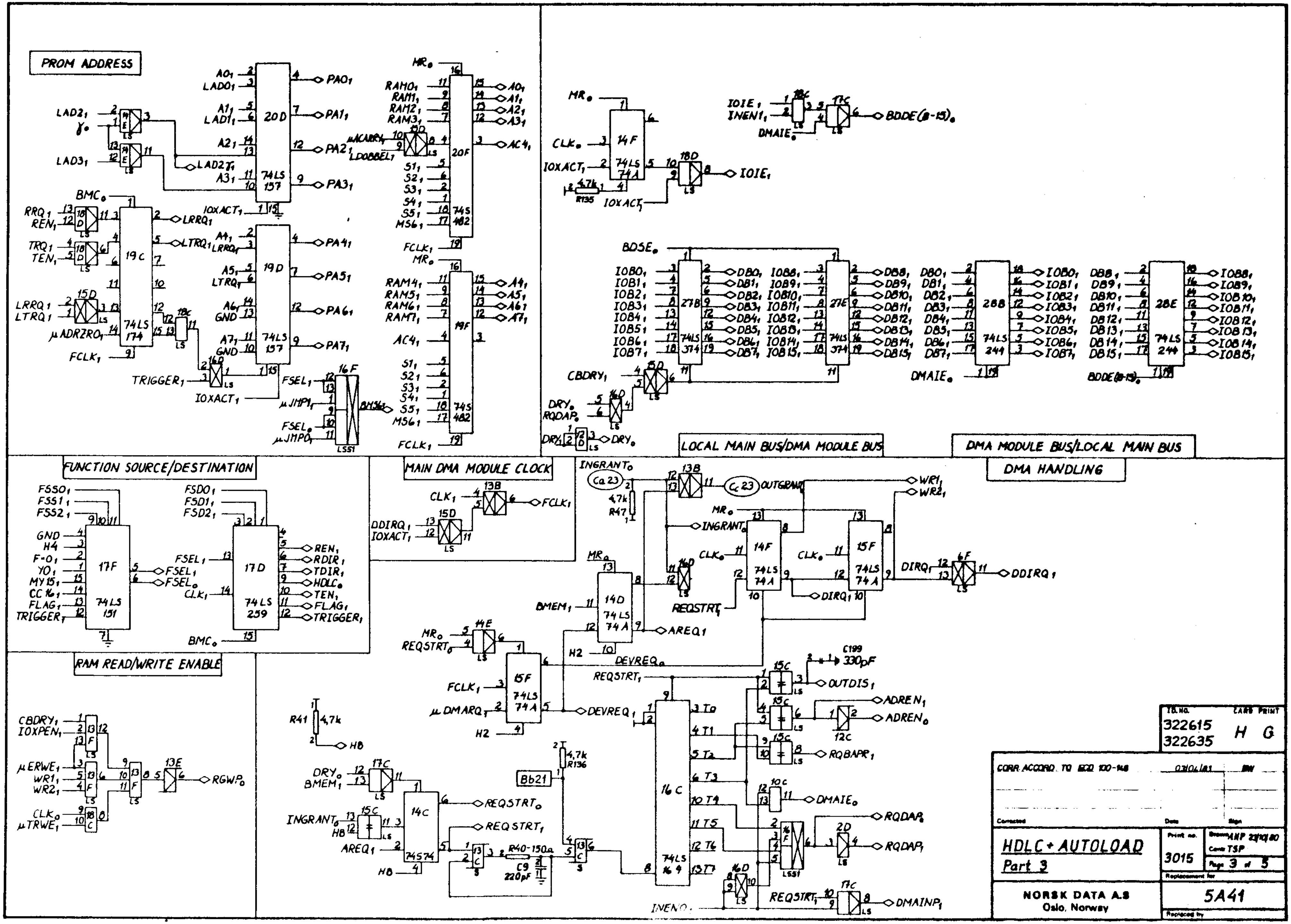
μ-PROGRAM (512×64 BIT PROM)
256×16 BIT RAM
4×2901 μ-PROCESSOR SLICES
RAM ADDRESS FROM PR-REG
DMA ADDRESS BIT 16-23
DMA ADDRESS BIT 0-15
MOST/LEAST BYTE SELECT
MOVE MOST BYTE TO LEAST BYTE
RAM ADDRESS SOURCE SELECT
CORR. ACCORD. TO. ECO. 100-94, 282.80
100-94,100-107,100-115,100-148
03/04/81
HDLC + AUTOLOAD
Part 4
NORSK DATA A.S
Oslo, Norway
322615
322635
H C
3015
4 of 5
5A42


TESTSTOP OF HDLC RECEIVER CLOCK
READ PROM DATA
BYTE CLOCK
STATE COUNTER AND DECODER
PRIORITY DAISY CHAIN
READ STATUS REG.
DEVICE NUMBER COMPARE
512 * 8 PROM
PROM ADDRESS
CORR. ACCORD TO ECO 100-84, 28.2.80
100-84, 100-107, 100-115, 100-14, 8, 195/196
20.01.82
BW
Corrected
Date
Sign
322615
322635
CARD PRINT
J C
HDLC+AUTOLOAD
Part 5
Prod. no
3015
AHP 01/10/79
TSP
Page 5 of 5
Replacement for
5A43
Replaced by
NORSK DATA A.S
Oslo, Norway


TESTSTOP OF HDLC RECEIVER CLOCK
READ PROM DATA
BYTE CLOCK
STATE COUNTER AND DECODER
PRIORITY DAISY CHAIN
READ STATUS REG.
DEVICE NUMBER COMPARE
512 * 8 PROM
PROM ADDRESS
CORR. ACCORD TO ECO
100-105/196
322615
322635
J G
20.01.82
HDLC + AUTOLOAD
Part 5
Print no 3015
Drawn AHP 23/10/80
Cont. TSP
Page 5 of 5
NORSK DATA A.S
Oslo, Norway
5A43


BUS DRIVE AND SENSE
PROTOCOL CONTROLLER
TRANSFER CONTROL REGISTERS
TRANSFER STATUS REGISTERS
IDENT NUMBER
DEVICE NUMBER CONTROL
INTERRUPT HANDLING
BUS CONTROL
EXPLANATION:
SIGNALS TO/FROM AUTOLOAD MODULE
3-4 CD
MPCC
Vcc: 32
GND: 9
CORR ACCORD TO ECO 100-148 03/04/81/BW
HDLC+AUTOLOAD
Part 1
NORSK DATA A.S
Oslo, Norway
322615
322635
H G
3015
Page 1 of 5
5A39


MAIN CLOCK
RESET CONTROL
INSTRUCTION DECODING
SYNCHRONIZATION TO MAIN CLOCK
DC CONVERTERS
CCITT V.35
MODEM CIRCUITS STATUS CHANGE
CCITT INTERFACE V.24I X21BIS, X21,V.35
OSCILLATOR
LOCAL MAIN BUS/DATA MODULE BUS
BUS/DMA MODULE BUS
DATA MODULE
322615
322635
CORR. ACCORD TO ECO 100-148
HDLC+AUTOLOAD
Part 2
3015
5A40
NORSK DATA A.S
Oslo, Norway



TG.NO. 322615 322635 CARD PRINT H G

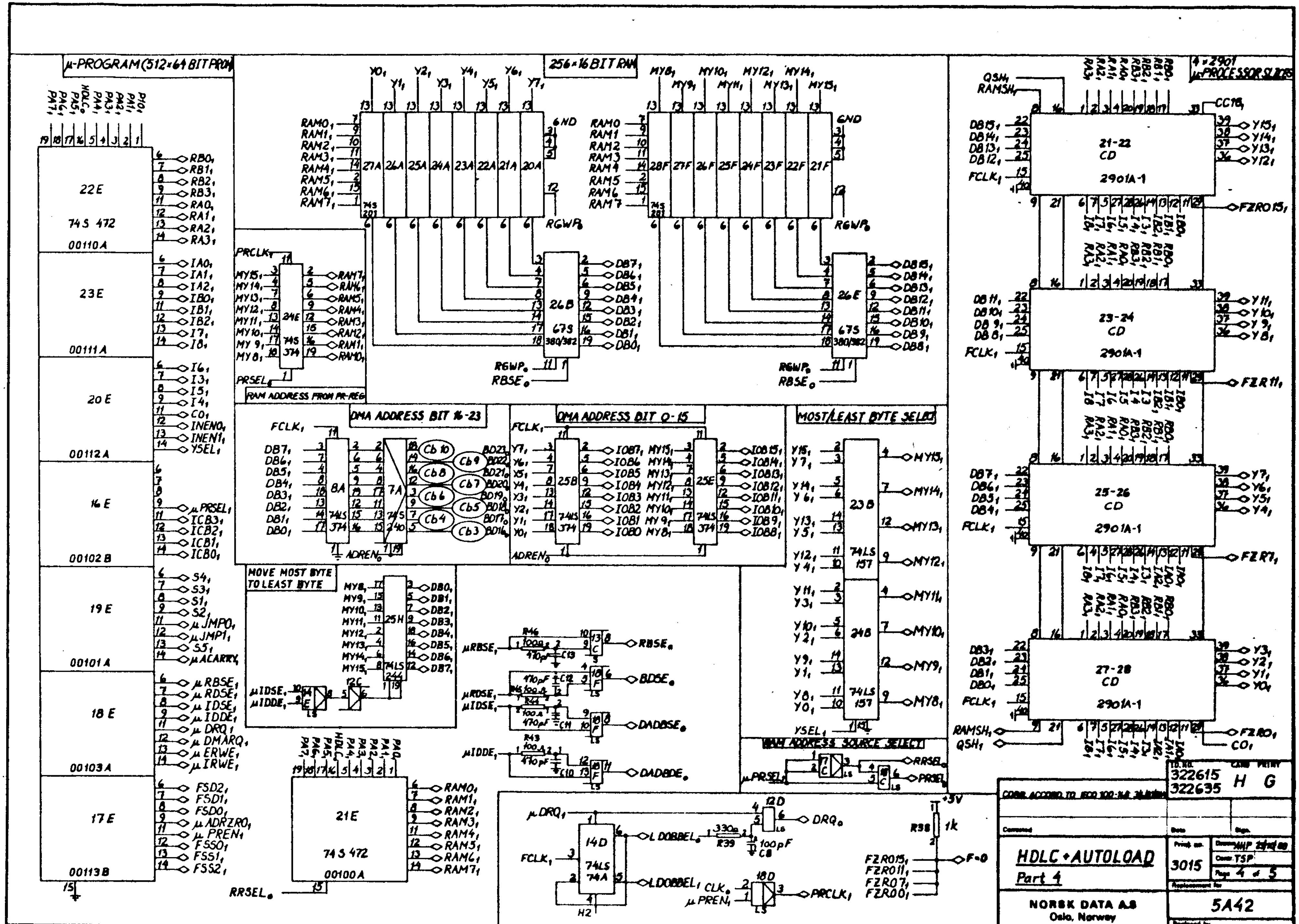
CORR. ACCORD. TO ECO 100-148 03/04/81

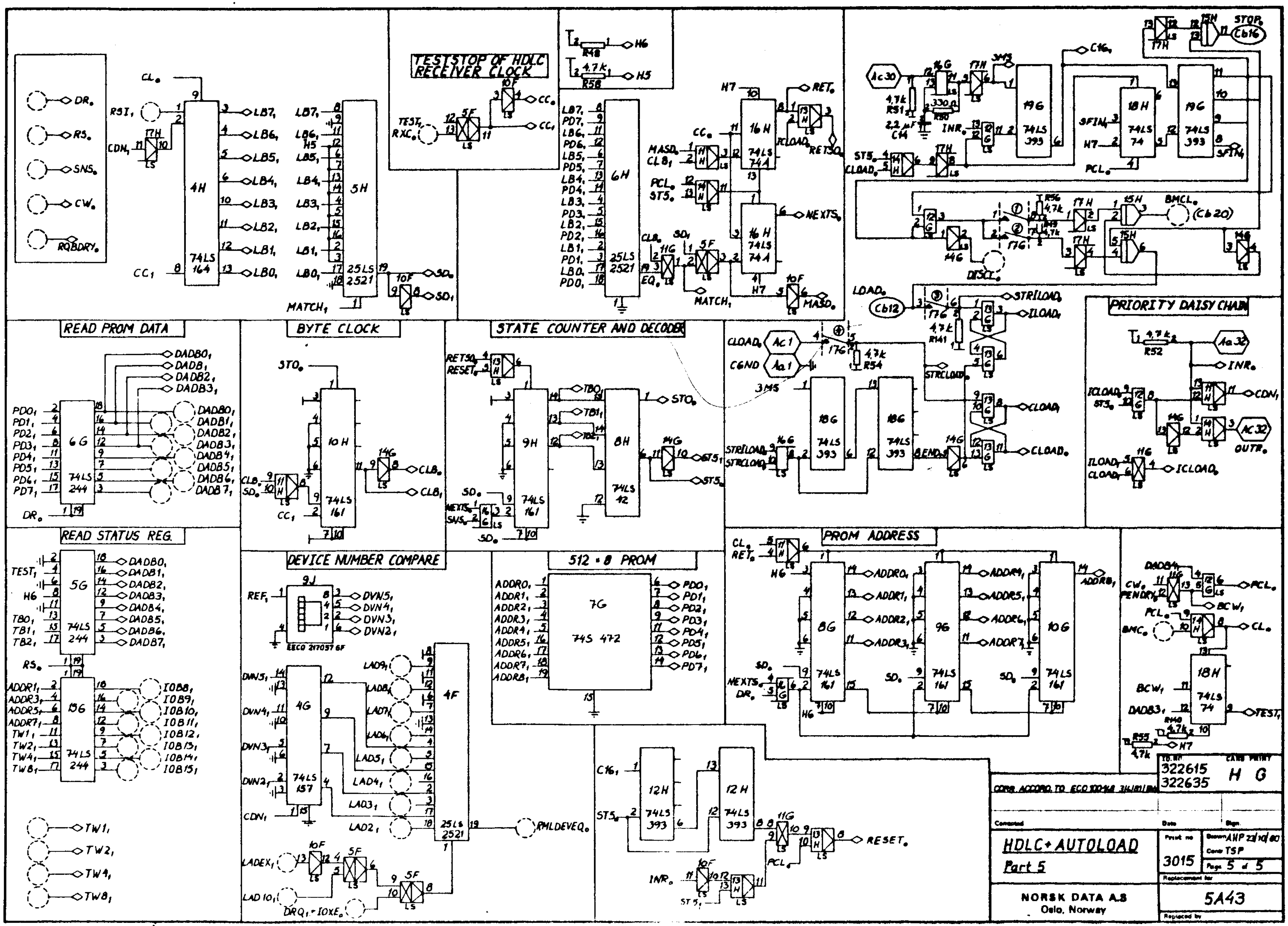
HDLC + AUTOLOAD
Part 3

Print no. 3015 Drawn AHP 23/10/80 Cont. TSP Page 3 of 5

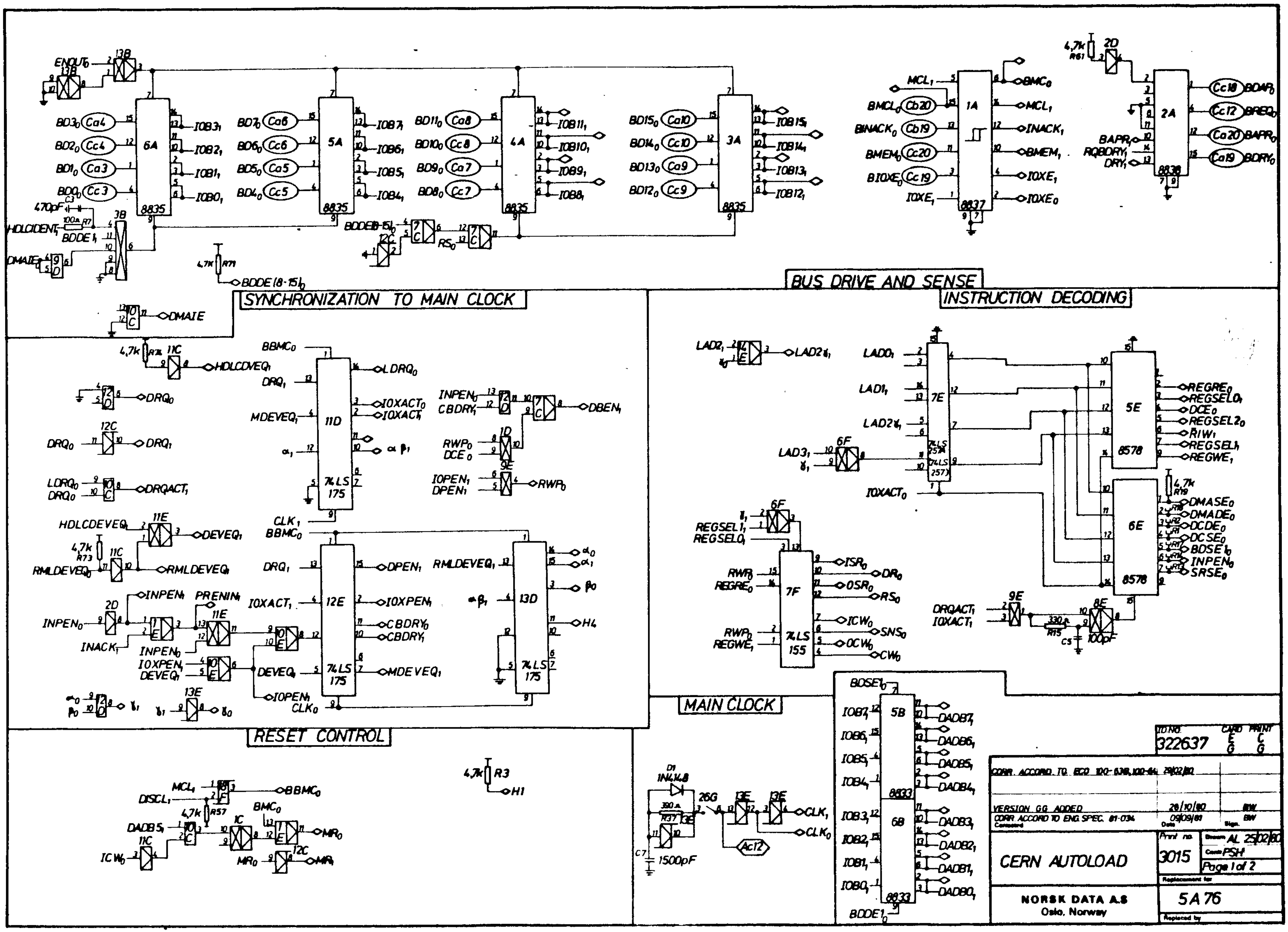
NORSK DATA A.S
Oslo, Norway

5A41

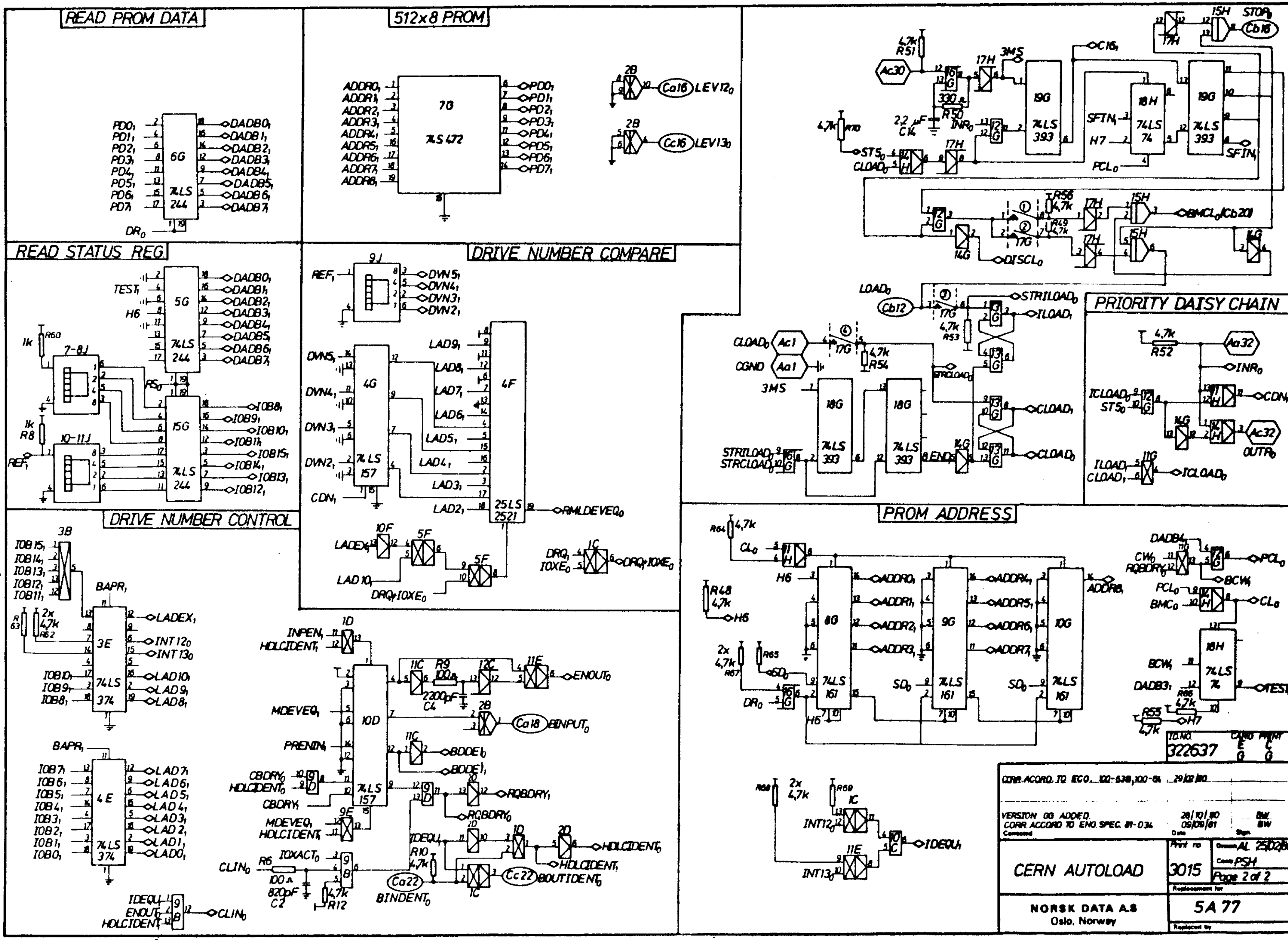

µ-PROGRAM (512×64 BIT PROM)
256×16 BIT RAM
4×2901 µ-PROCESSOR SLICES
RAM ADDRESS FROM PR-REG
DMA ADDRESS BIT 16-23
DMA ADDRESS BIT 0-15
MOST/LEAST BYTE SELECT
MOVE MOST BYTE TO LEAST BYTE
RAM ADDRESS SOURCE SELECT
HDLC+AUTOLOAD
Part 4
NORSK DATA A.S
Oslo, Norway
3015
5A42
322615
322635
H G

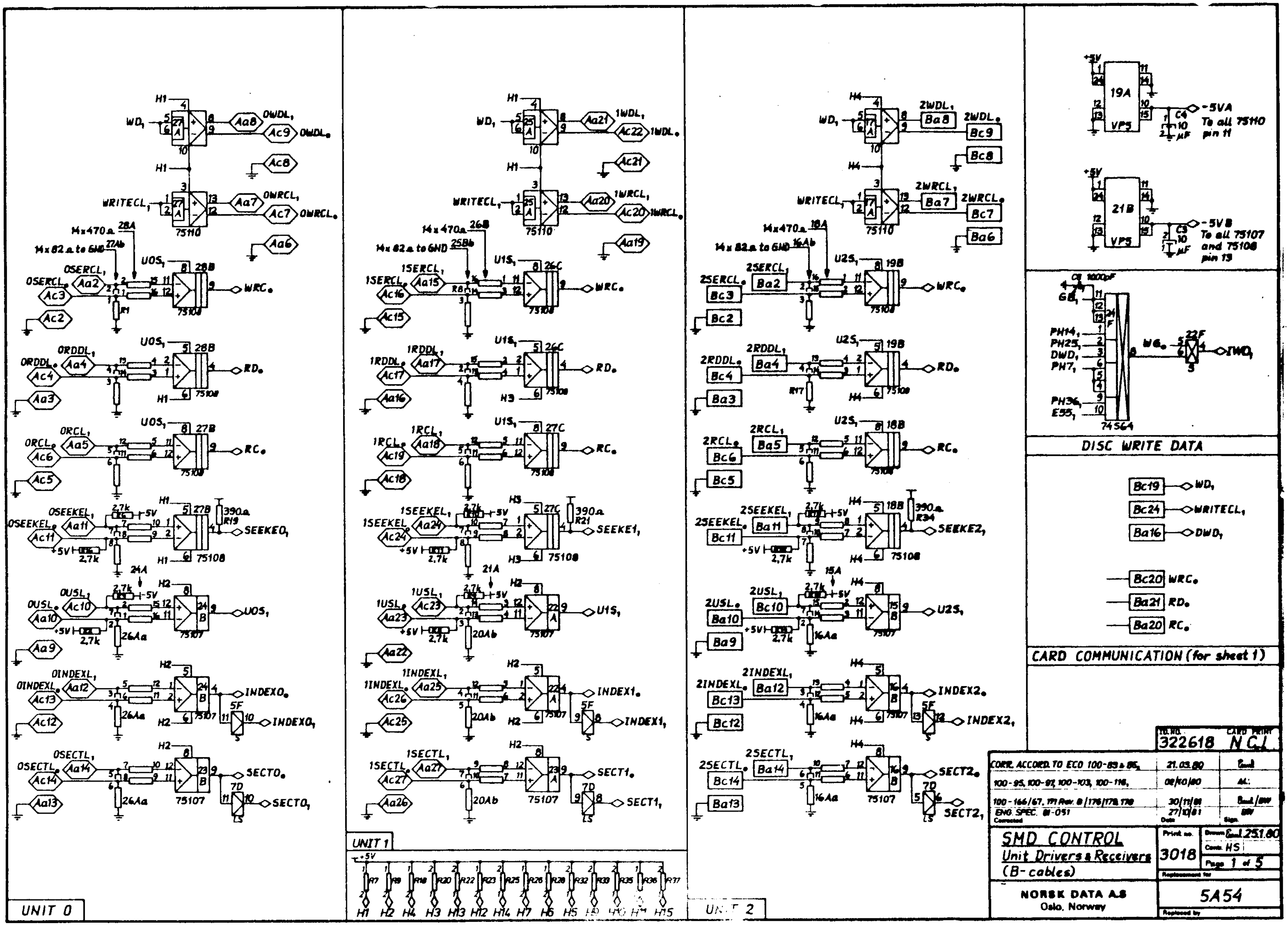


TESTSTOP OF HDLC RECEIVER CLOCK
READ PROM DATA
BYTE CLOCK
STATE COUNTER AND DECODER
PRIORITY DAISY CHAIN
READ STATUS REG.
DEVICE NUMBER COMPARE
512 * 8 PROM
PROM ADDRESS
CORR. ACCORD. TO ECO 1004/8 31/1/81
322615
322635
H G
HDLC + AUTOLOAD
Part 5
3015
AHP 23/10/80
TSP
5 of 5
NORSK DATA A.S
Oslo, Norway
5A43



BUS DRIVE AND SENSE
SYNCHRONIZATION TO MAIN CLOCK
INSTRUCTION DECODING
MAIN CLOCK
RESET CONTROL
ID.NO. 322637
CORR. ACCORD. TO ECO 100-638,100-64 29/02/80
VERSION GG ADDED 28/10/80
CORR. ACCORD TO ENG. SPEC. 81-034 09/09/81
CERN AUTOLOAD
Print no. 3015
Page 1 of 2
5A76
NORSK DATA A.S
Oslo, Norway


READ PROM DATA
512x8 PROM
READ STATUS REG
DRIVE NUMBER COMPARE
DRIVE NUMBER CONTROL
PRIORITY DAISY CHAIN
PROM ADDRESS
CORR. ACORD. TO ECO. 100-638, 100-64 29/02/80
VERSION 03 ADDED. CORR. ACCORD TO ENG. SPEC. 81-034
28/10/80
09/09/81
BW
BW
ID.NO. 322637
CARD PRINT
E C
G G
Print no 3015
Drawn AL 25/02/80
Cont. PSH
Page 2 of 2
CERN AUTOLOAD
NORSK DATA A.S
Oslo, Norway
5A 77

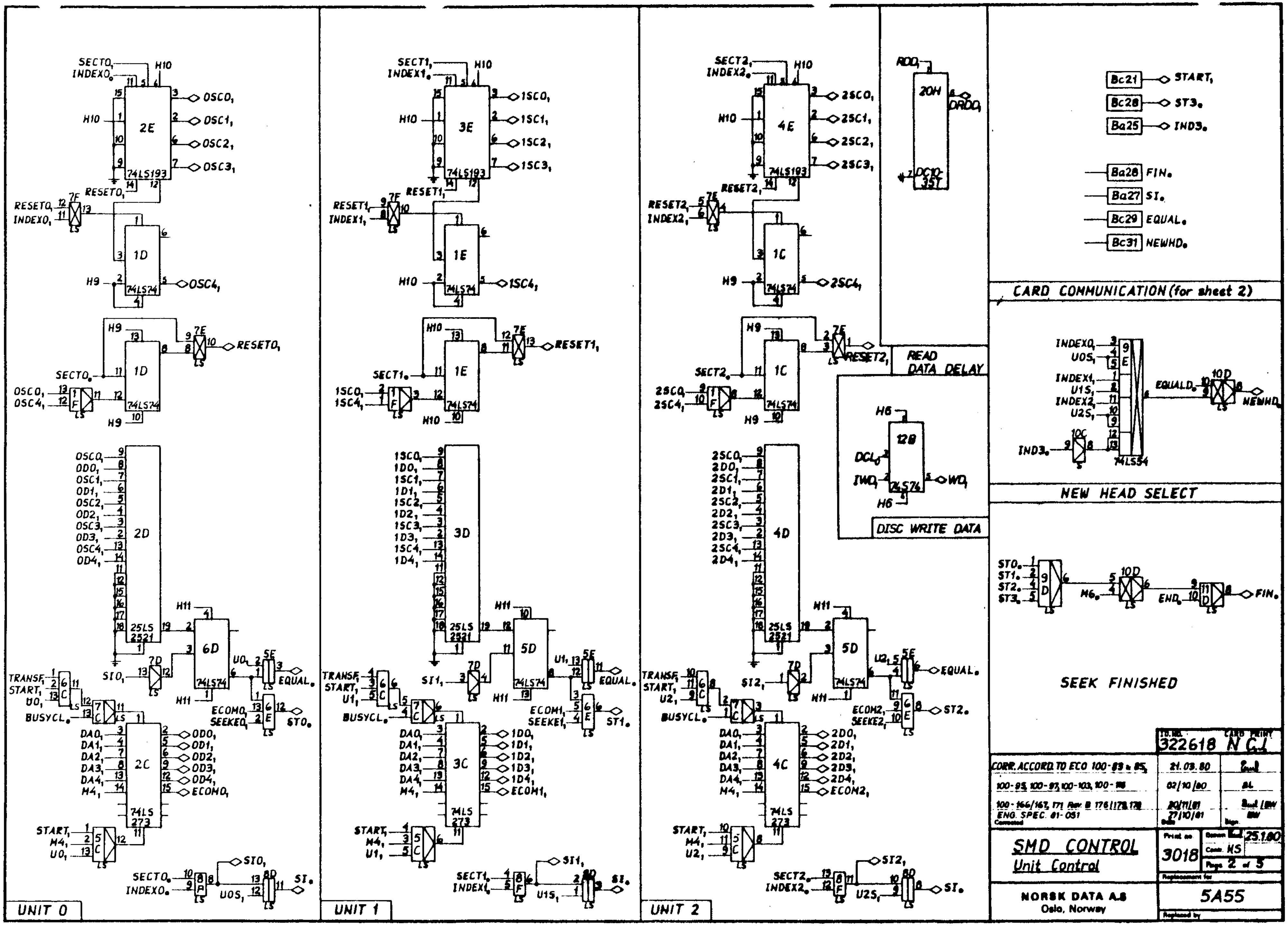


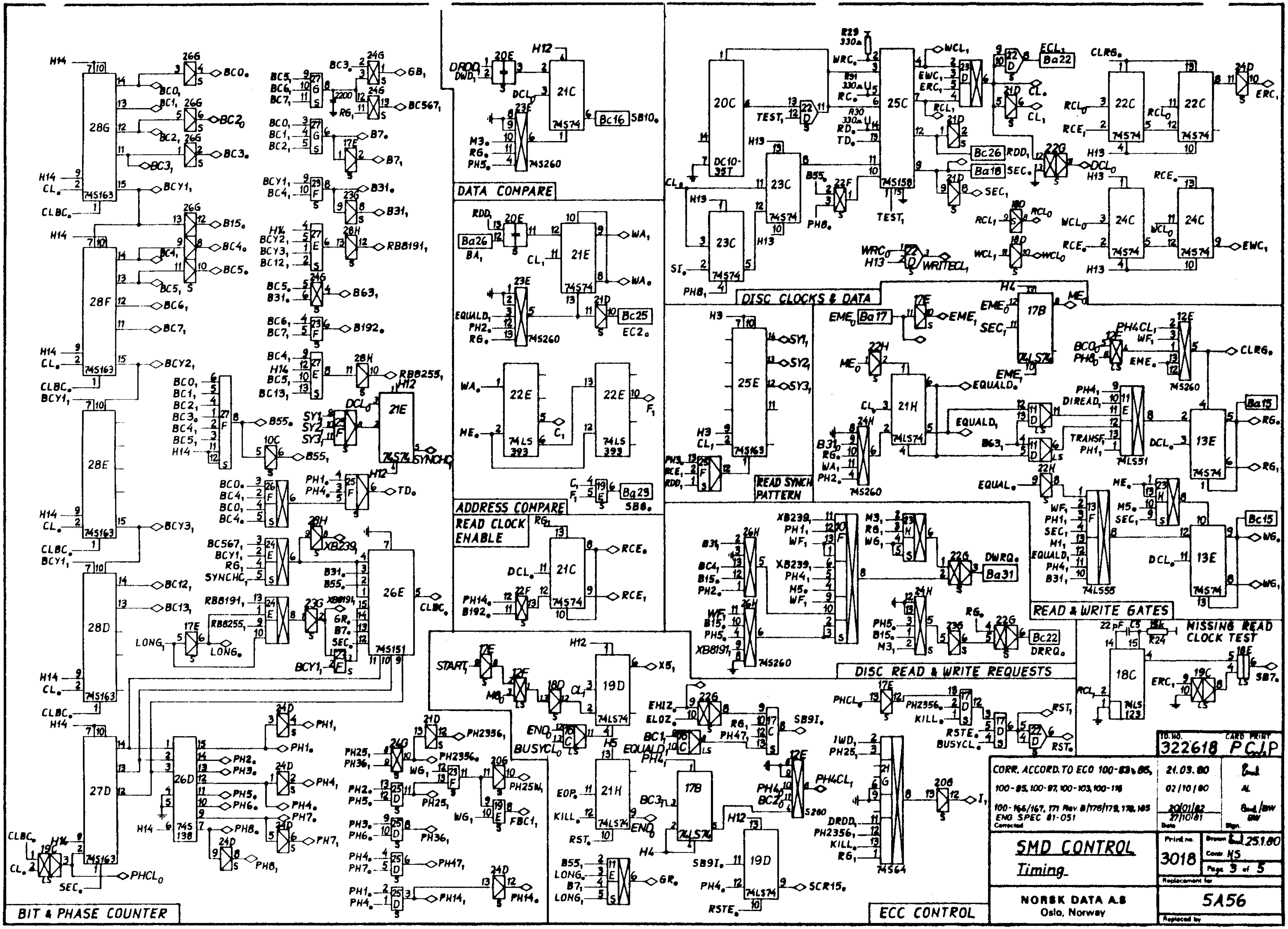
CORR. ACCORD. TO ECO 100-89 & 85,	21.03.80	
100-95, 100-97, 100-103, 100-116,	08/10/80	
100-166/167, 171 Rev. B / 176/178, 179	30/11/81	
ENG. SPEC. 81-051	27/10/81	

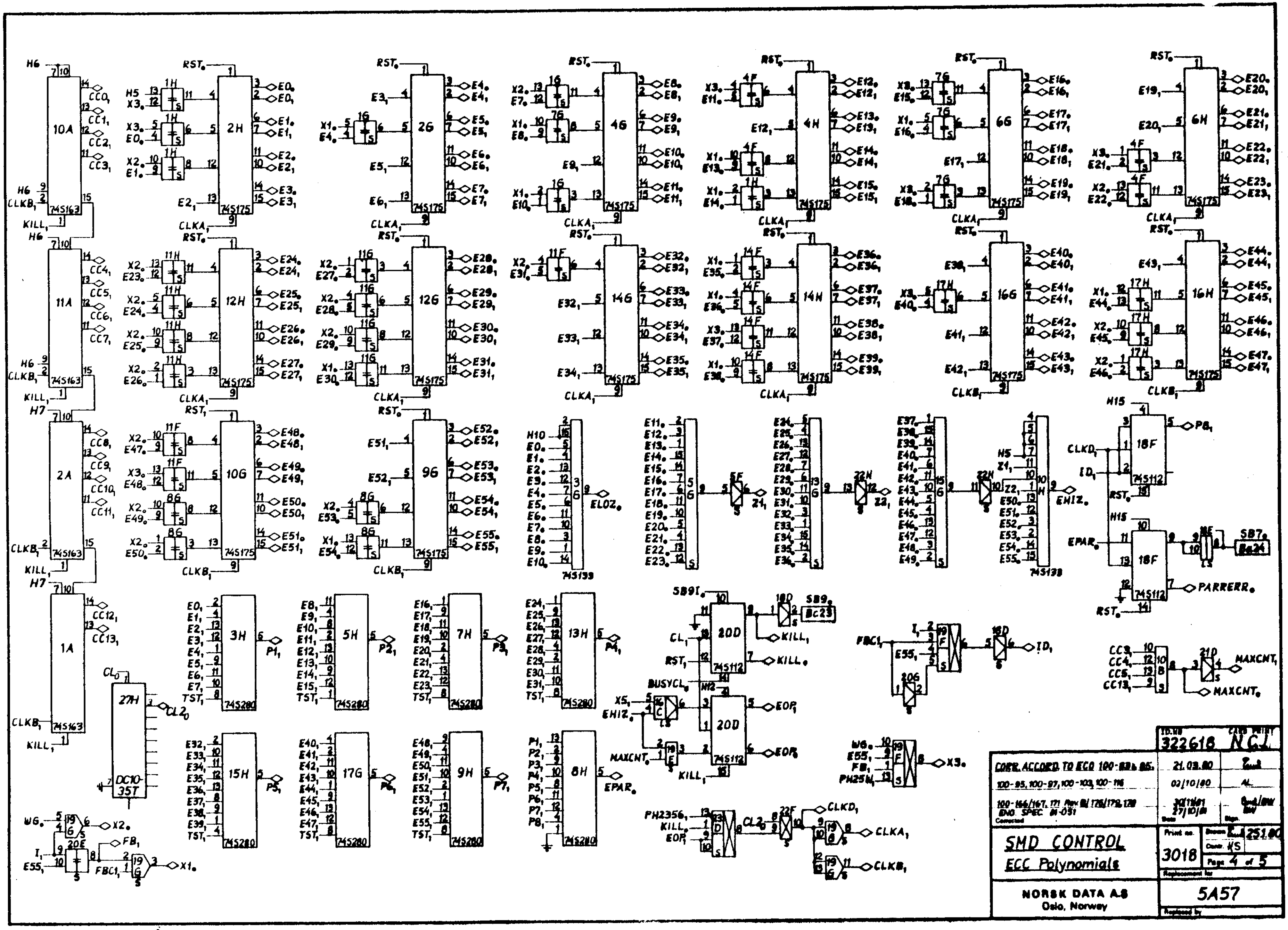
SMD CONTROL
Unit Drivers & Receivers
(B-cables)

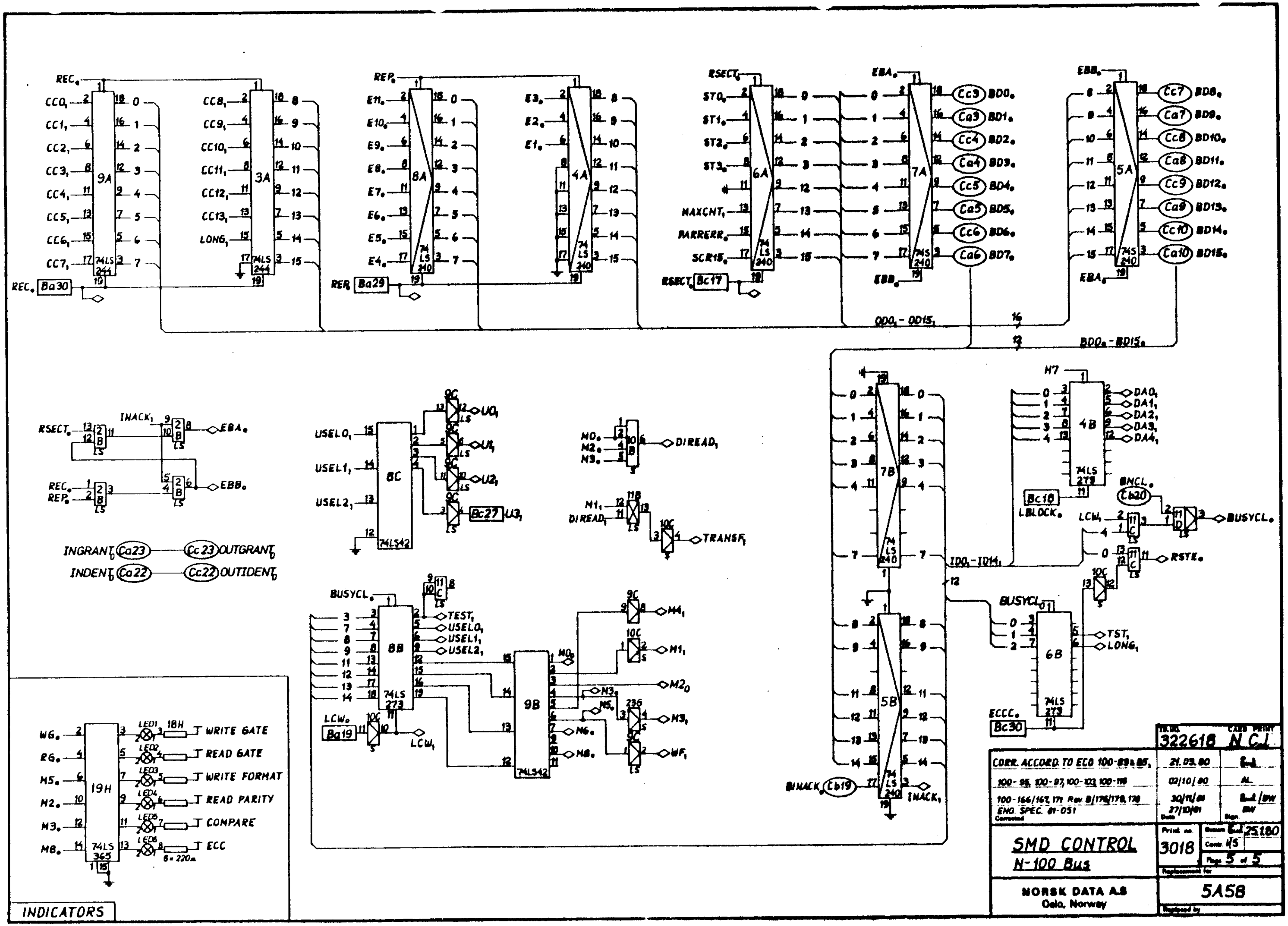
NORSK DATA A.S
Oslo, Norway

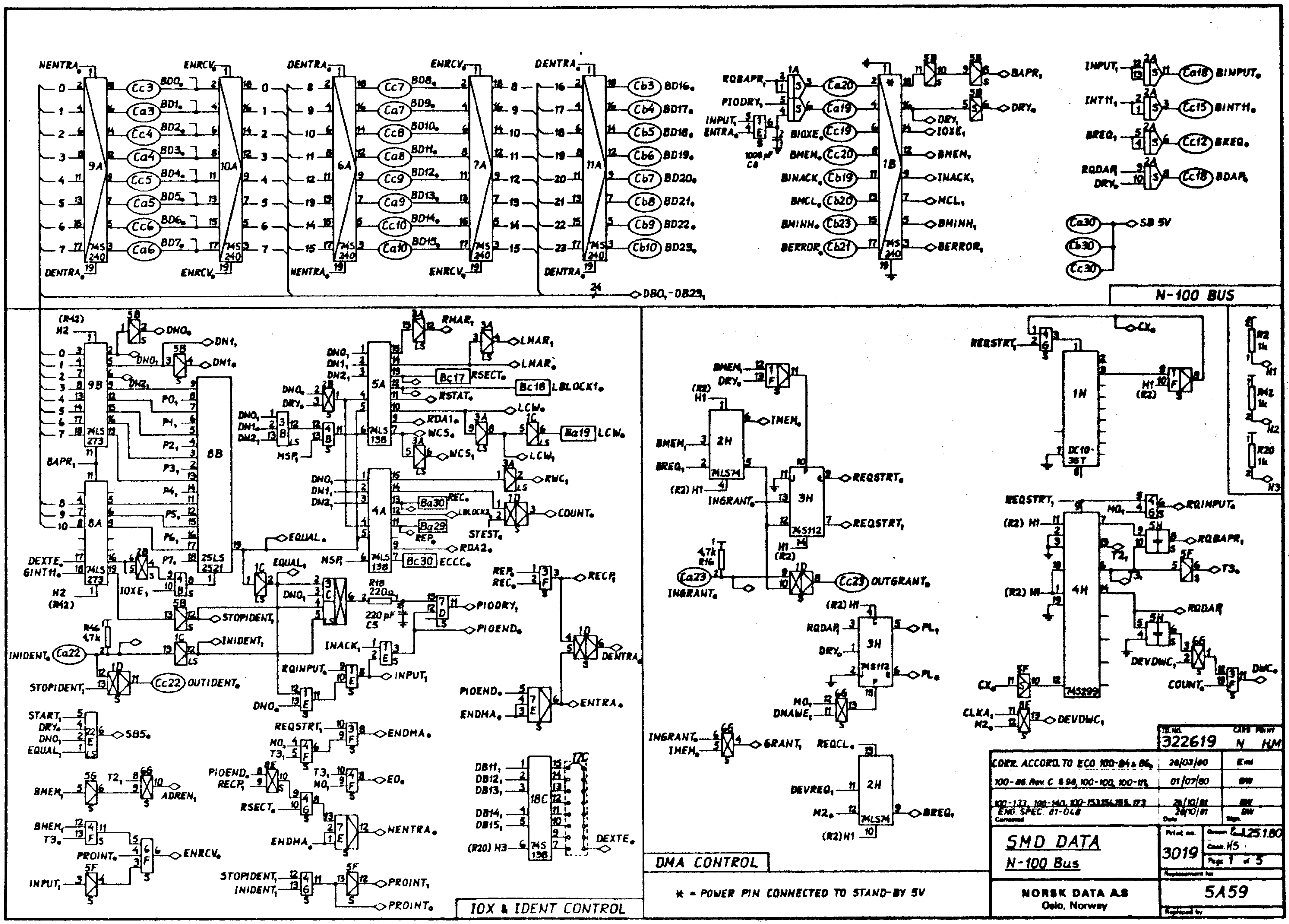
TD. NO. 322618
CARD PRINT NCL
Print no. 3018
Drawn 251.80
Cont. HS
Page 1 of 5
5A54

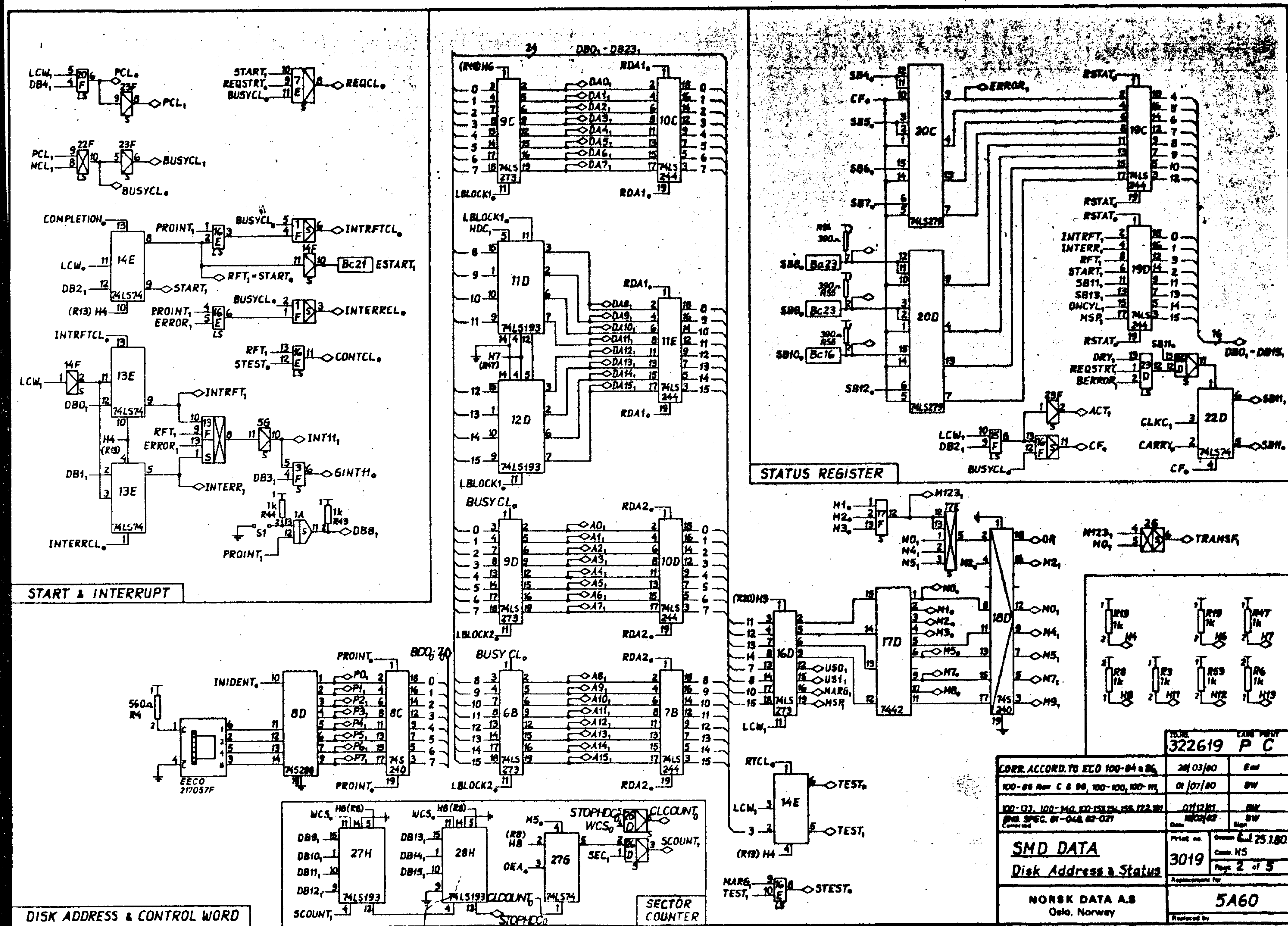

CARD COMMUNICATION (for sheet 2)
NEW HEAD SELECT
SEEK FINISHED
READ DATA DELAY
DISC WRITE DATA
UNIT 0
UNIT 1
UNIT 2
322618 N C.I
SMD CONTROL
Unit Control
3018
Page 2 of 5
NORSK DATA A.S
Oslo, Norway
5A55


BIT & PHASE COUNTER
DATA COMPARE
ADDRESS COMPARE
READ CLOCK ENABLE
DISC CLOCKS & DATA
READ SYNCH PATTERN
READ & WRITE GATES
MISSING READ CLOCK TEST
DISC READ & WRITE REQUESTS
ECC CONTROL
ID. NO. 322618
CARD PRINT PCJP
CORR. ACCORD. TO ECO 100-83 & 85, 21.03.80
100-85, 100-97, 100-103, 100-116 02/10/80
100-166/167, 171 Rev. B/176/178, 178, 185 ENG SPEC 81-051 20/01/82 27/10/81
SMD CONTROL
Timing
Print no. 3018
Page 3 of 5
Replacement for 5A56
NORSK DATA A.S
Oslo, Norway

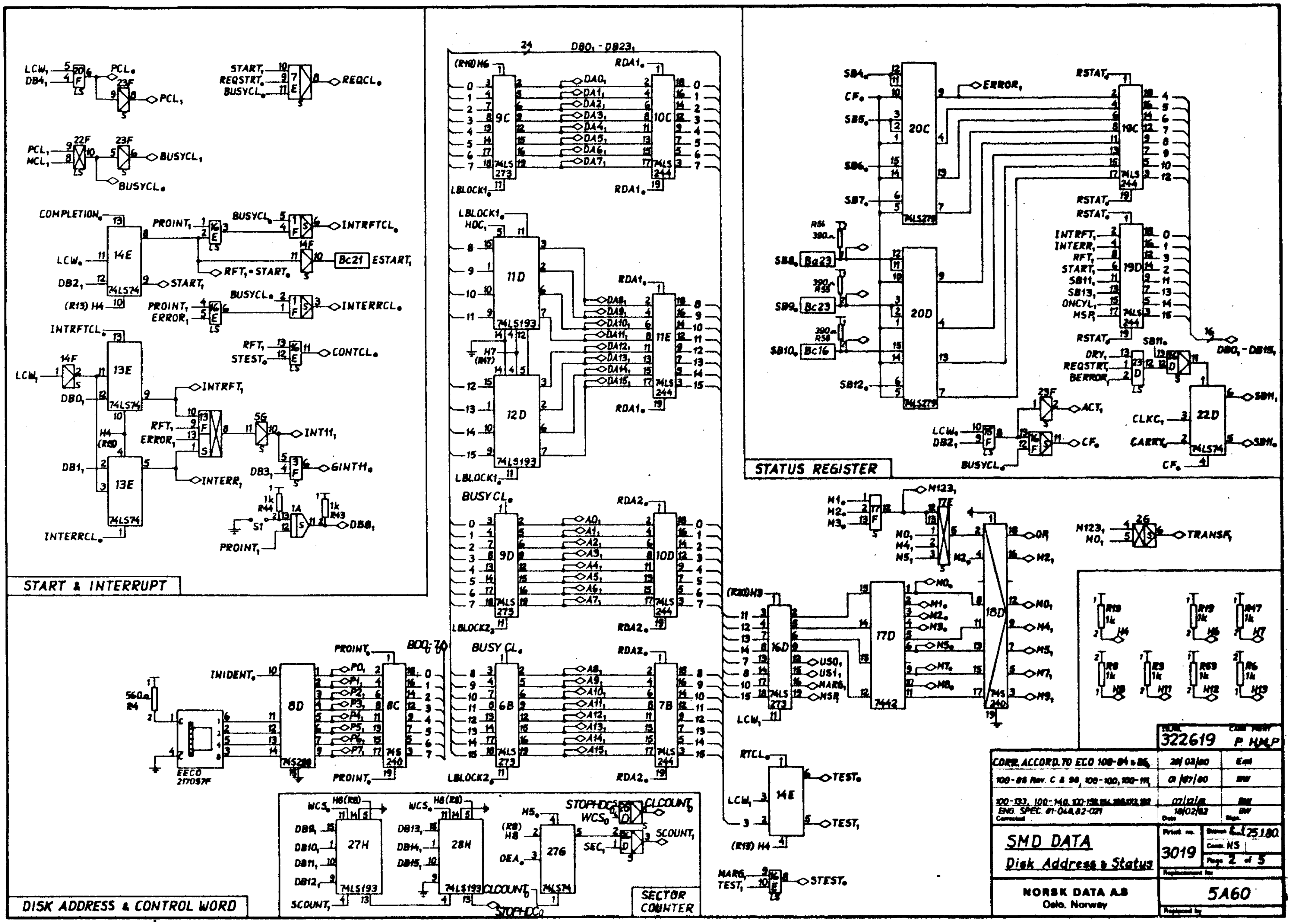

SMD CONTROL
ECC Polynomials
NORSK DATA A.S
Oslo, Norway
322618 NCJ
CORR. ACCORD. TO ECO 100-88b 85.
21.03.80
100-95, 100-97, 100-103, 100-116
02/10/80
3018
Page 4 of 5
5A57

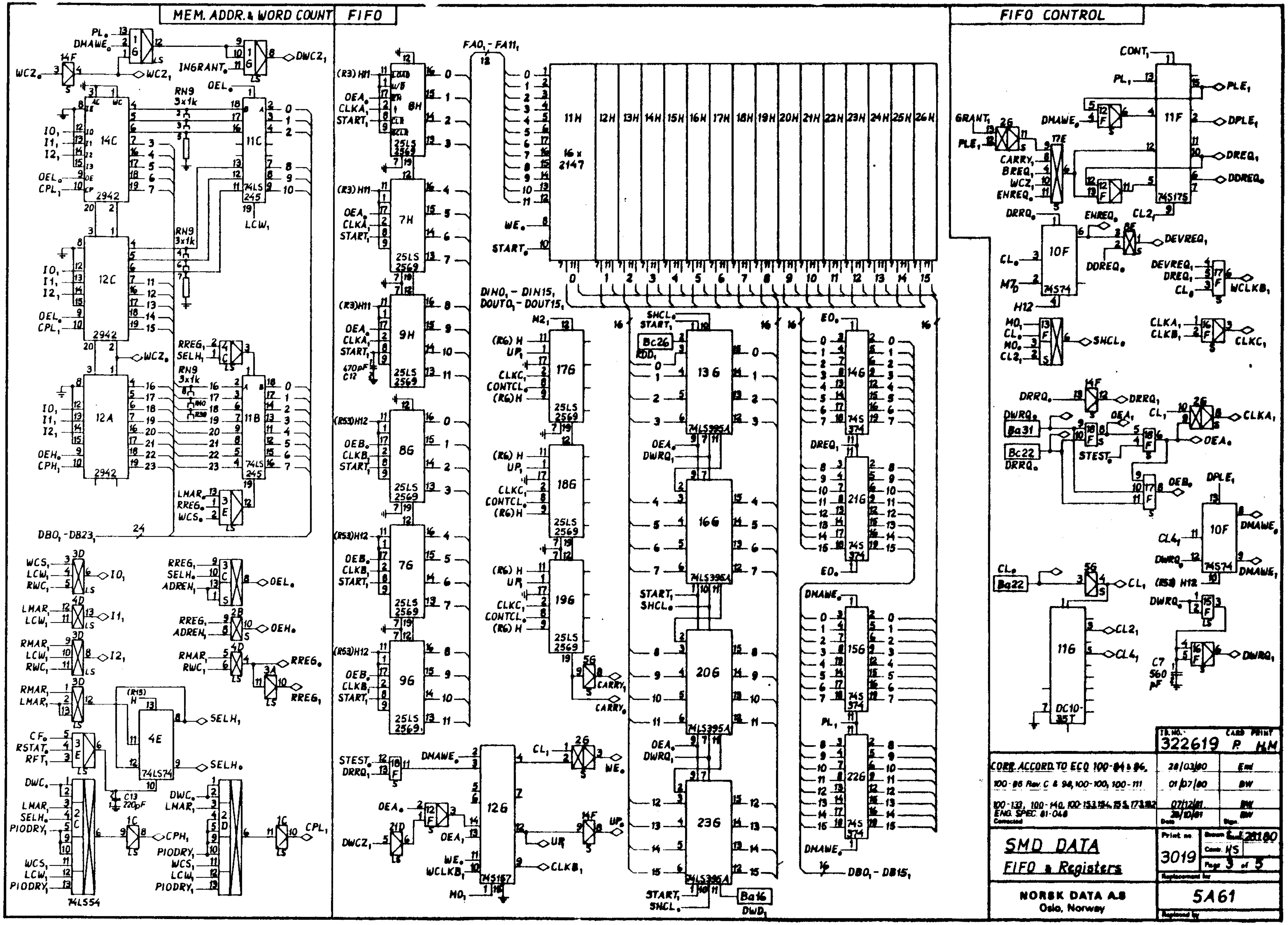

SMD CONTROL
N-100 Bus
NORSK DATA A.S
Oslo, Norway
322618 N C.I.
CORR. ACCORD. TO ECO 100-89 & 85, 21.03.80
100-95, 100-97, 100-103, 100-118 02/10/80
100-166/167, 171 Rev B/176/178, 178 30/11/80
ENG. SPEC. 81-051 27/10/81
3018
25180
5 of 5
5A58
INDICATORS
WRITE GATE
READ GATE
WRITE FORMAT
READ PARITY
COMPARE
ECC
9A
3A
8A
4A
6A
7A
5A
7B
5B
4B
6B
8C
8B
9B
19H
DD0 - DD15
BD0 - BD15
ID0 - ID14
INGRANT
OUTGRANT
INDENT
OUTIDENT
BUSYCL
DIREAD
TRANSF
RSTE
BINACK
INACK

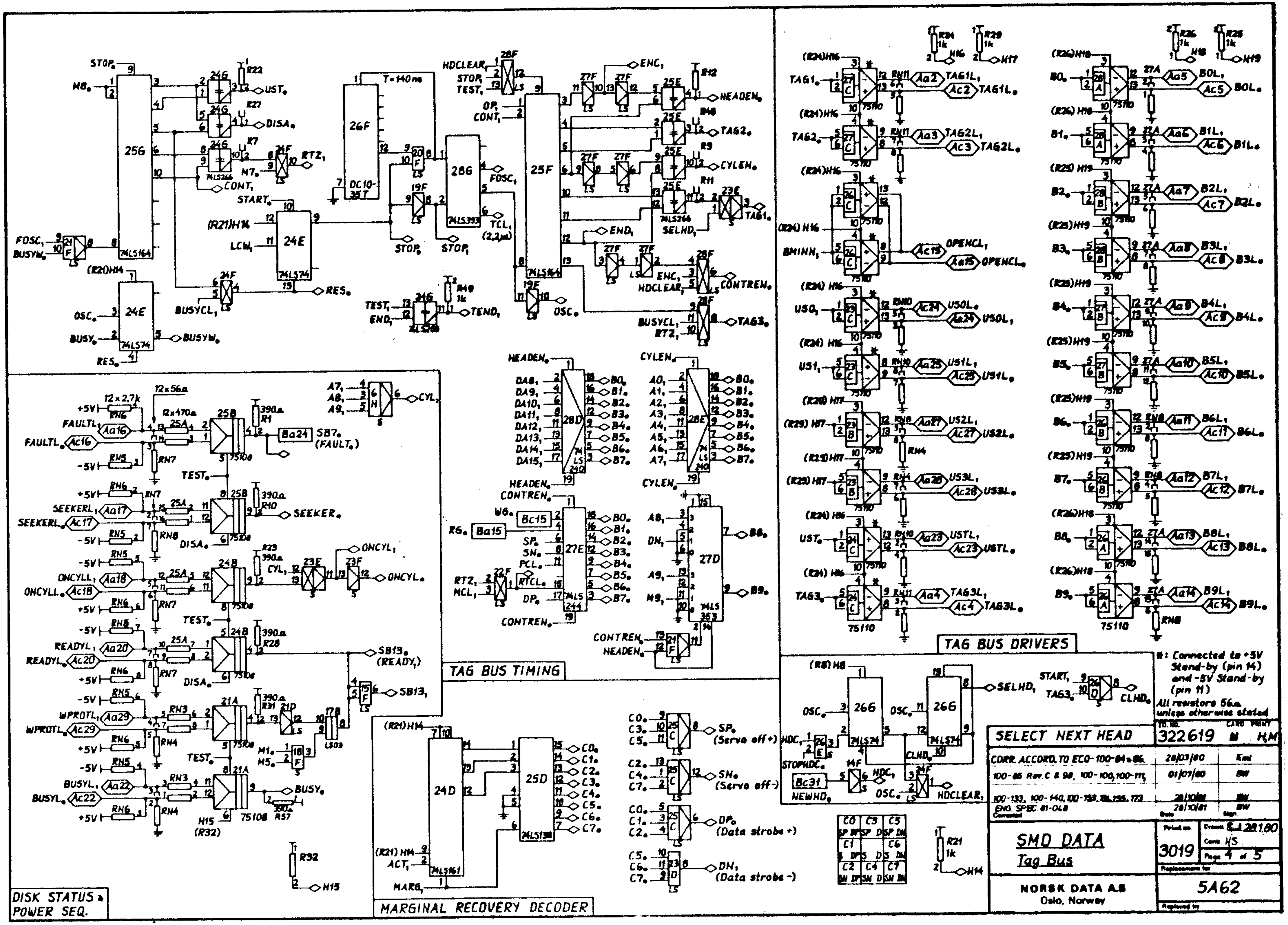

N-100 BUS
IOX & IDENT CONTROL
DMA CONTROL
* = POWER PIN CONNECTED TO STAND-BY 5V
CORR. ACCORD. TO ECO 100-84 & 86, 28/03/80
100-86 Rev C 8.94, 100-100, 100-111, 01/07/80
100-133, 100-140, 100-153, 154, 155, 173 28/10/81
ENG SPEC 81-048 28/10/81
322619
N HM
SMD DATA
N-100 Bus
3019
Page 1 of 5
NORSK DATA A.S
Oslo, Norway
5A59

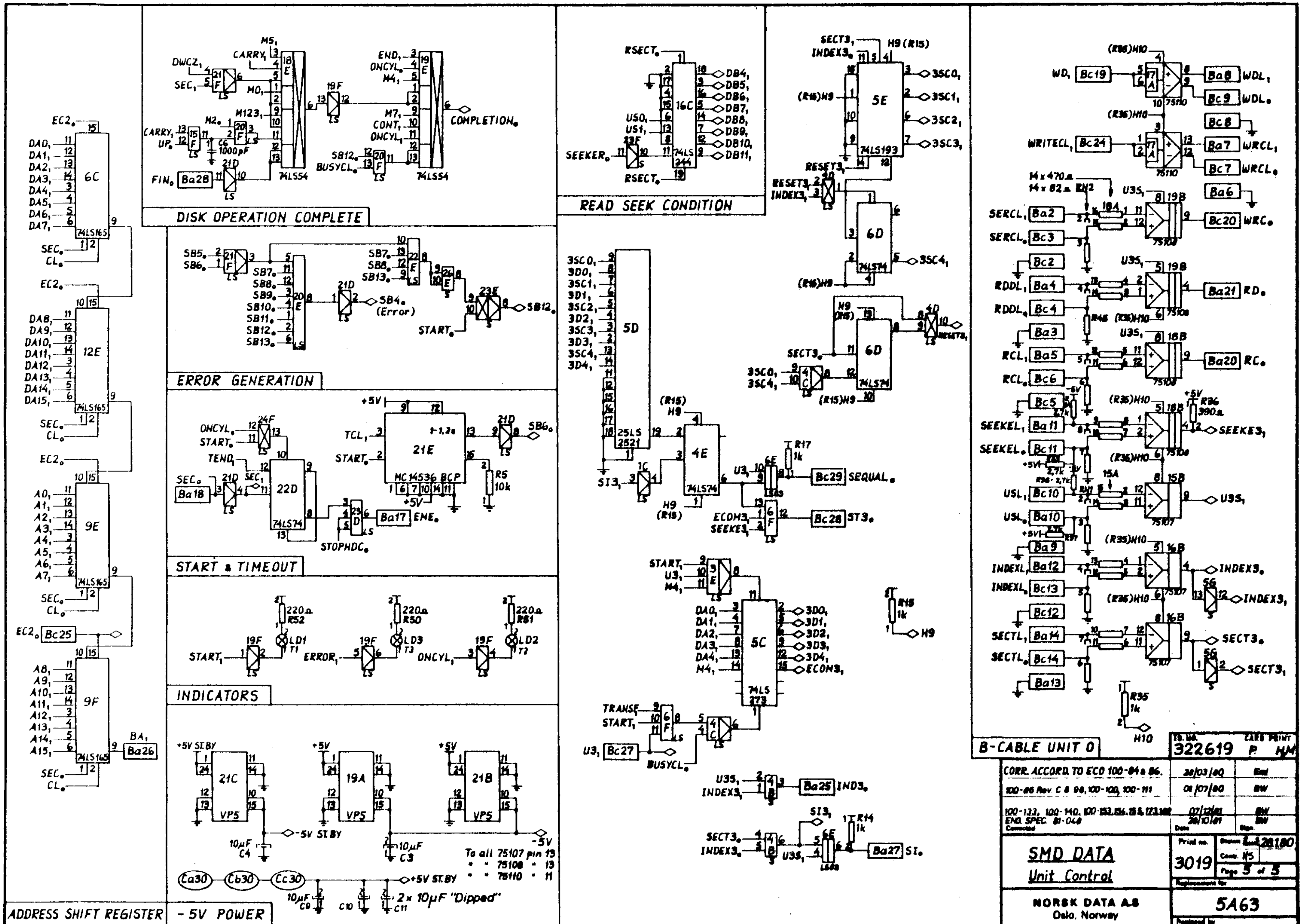


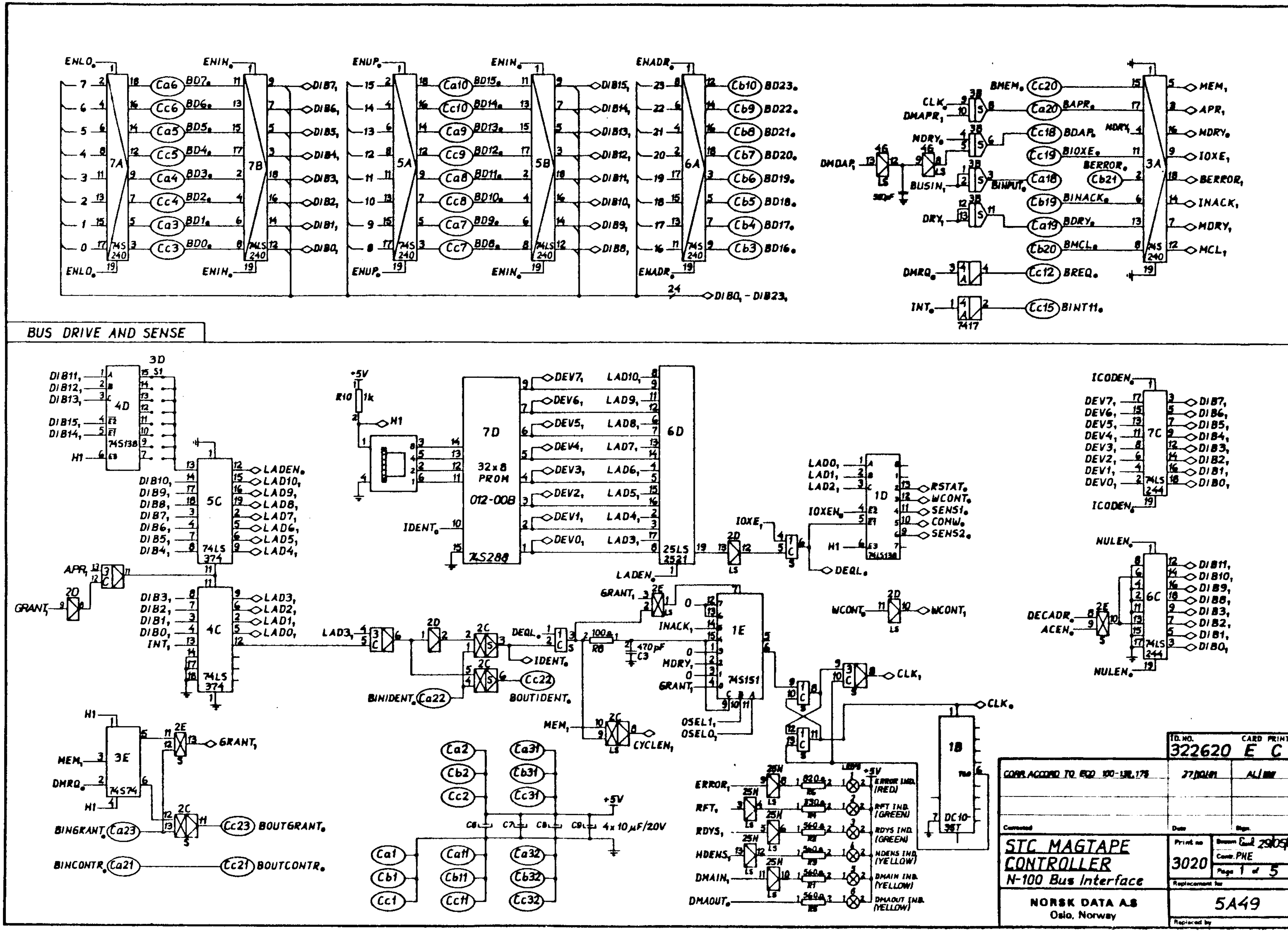
START & INTERRUPT
DISK ADDRESS & CONTROL WORD
SECTOR COUNTER
STATUS REGISTER
CORR. ACCORD. TO ECO 100-84 & 86
100-86 Rev C & 90, 100-100, 100-111
SMD DATA
Disk Address & Status
NORSK DATA A.S
Oslo, Norway
322619
P C
3019
Page 2 of 5
5A60

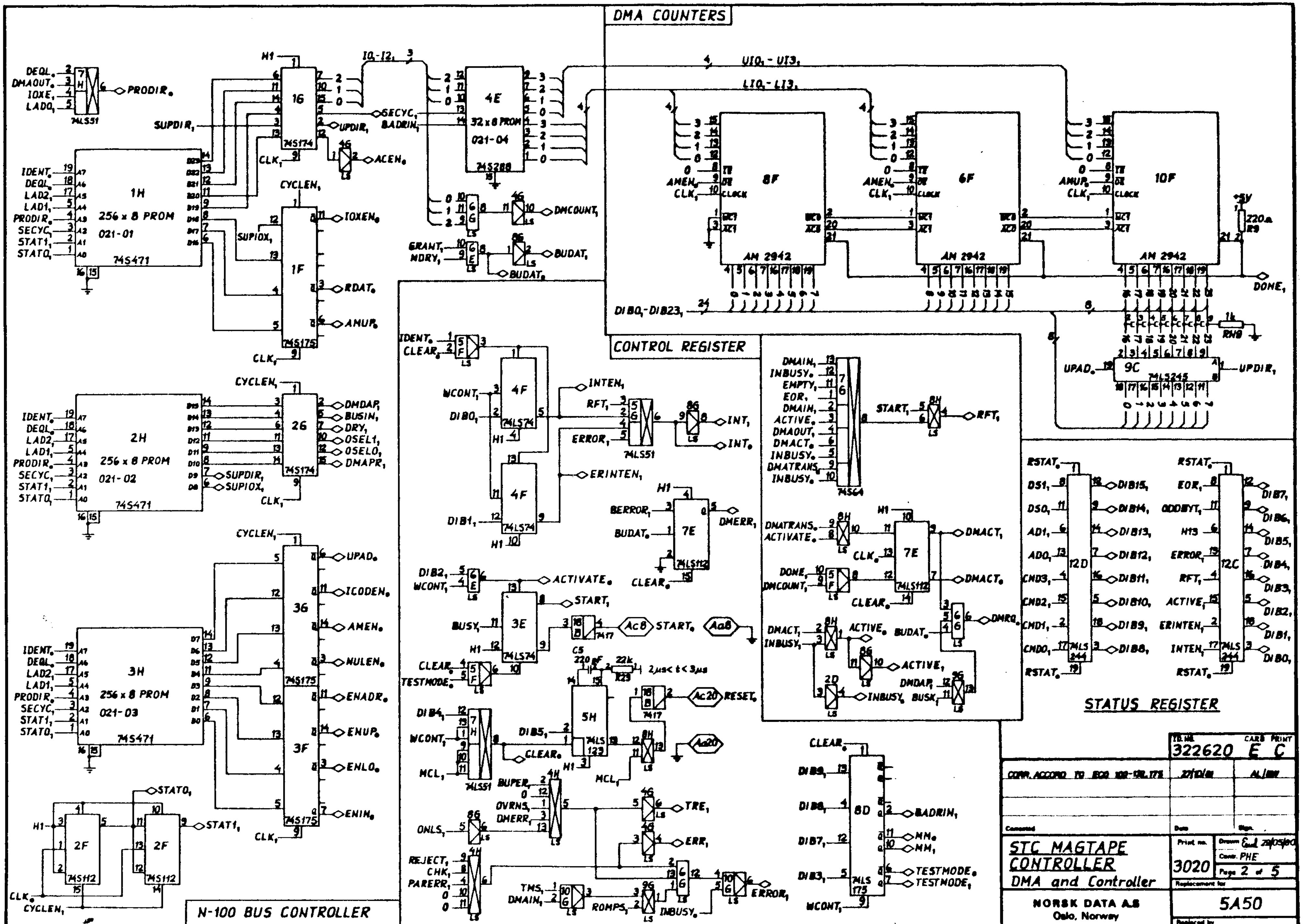

START & INTERRUPT
STATUS REGISTER
DISK ADDRESS & CONTROL WORD
SECTOR COUNTER
322619
P HMP
CORR. ACCORD. TO ECO 100-84 & 86
100-86 Rev. C & 94, 100-100, 100-111
ENG. SPEC. 81-044, 82-021
SMD DATA
Disk Address & Status
3019
Page 2 of 5
NORSK DATA A.S
Oslo, Norway
5A60

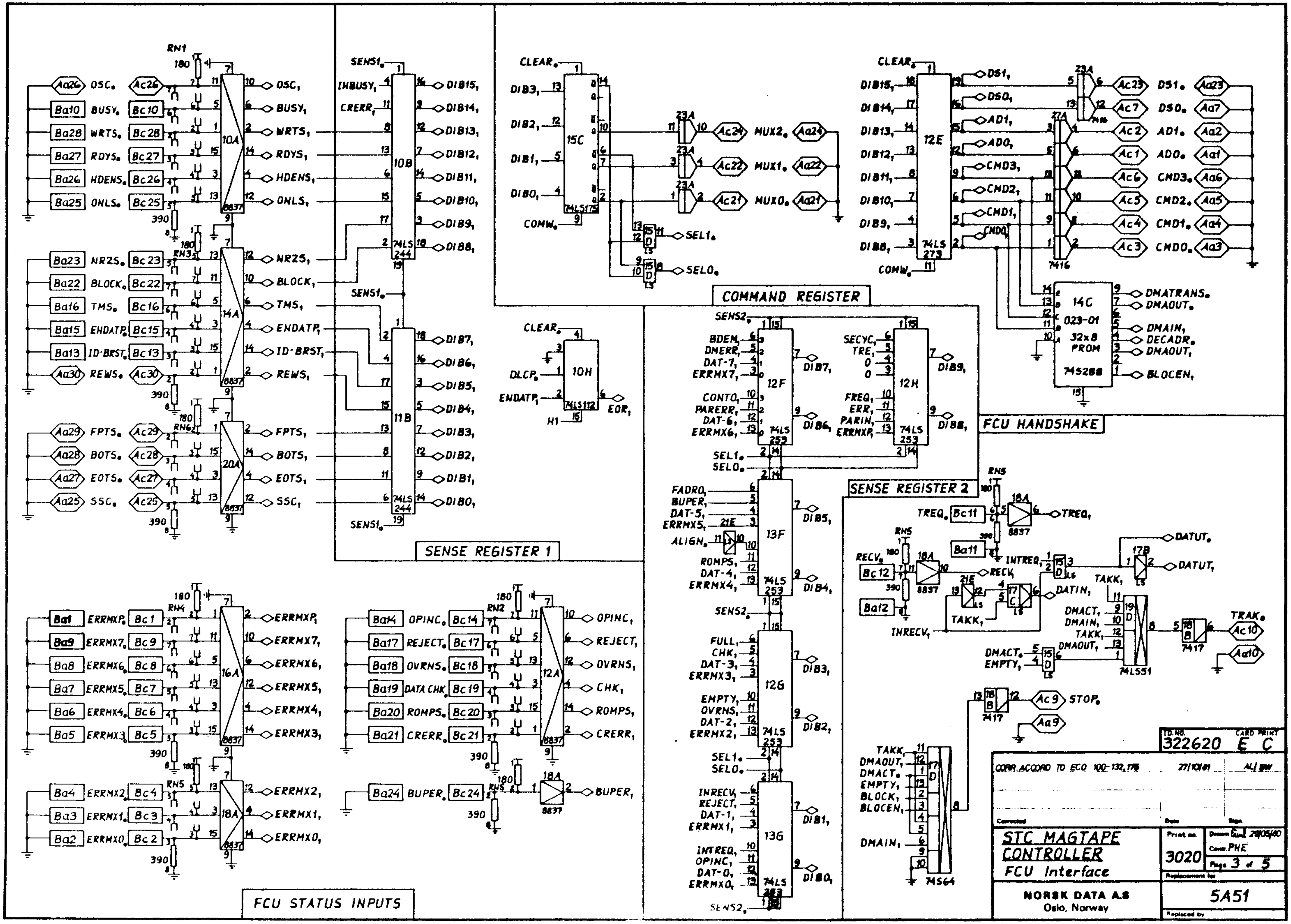

MEM. ADDR. & WORD COUNT
FIFO
FIFO CONTROL
SMD DATA
FIFO & Registers
NORSK DATA A.S
Oslo, Norway
322619 P HM
CORR. ACCORD. TO ECO 100-84 & 86,
100-86 Rev. C & 94, 100-100, 100-111
100-133, 100-140, 100-153, 154, 155, 173, 182
ENG. SPEC. 81-048
28/03/80
01/07/80
07/12/81
26/10/81
3019
HS
3 of 5
5A61

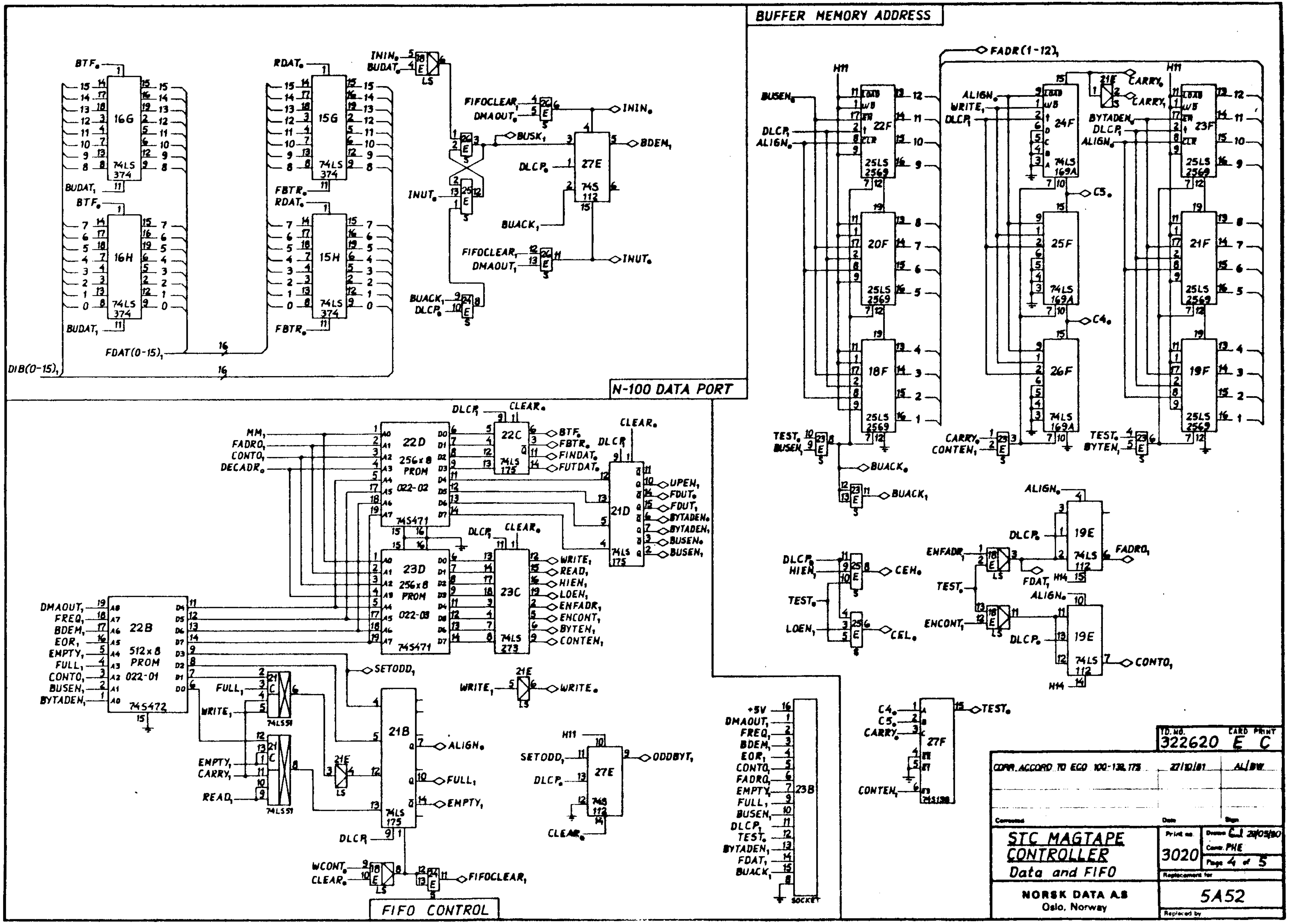

DISK STATUS & POWER SEQ.
MARGINAL RECOVERY DECODER
TAG BUS TIMING
TAG BUS DRIVERS
SELECT NEXT HEAD
*: Connected to +5V Stand-by (pin 14) and -5V Stand-by (pin 11)
All resistors 56Ω unless otherwise stated
322619
CORR. ACCORD. TO ECO-100-84 & 86.
SMD DATA
Tag Bus
3019
5A62
NORSK DATA A.S
Oslo, Norway

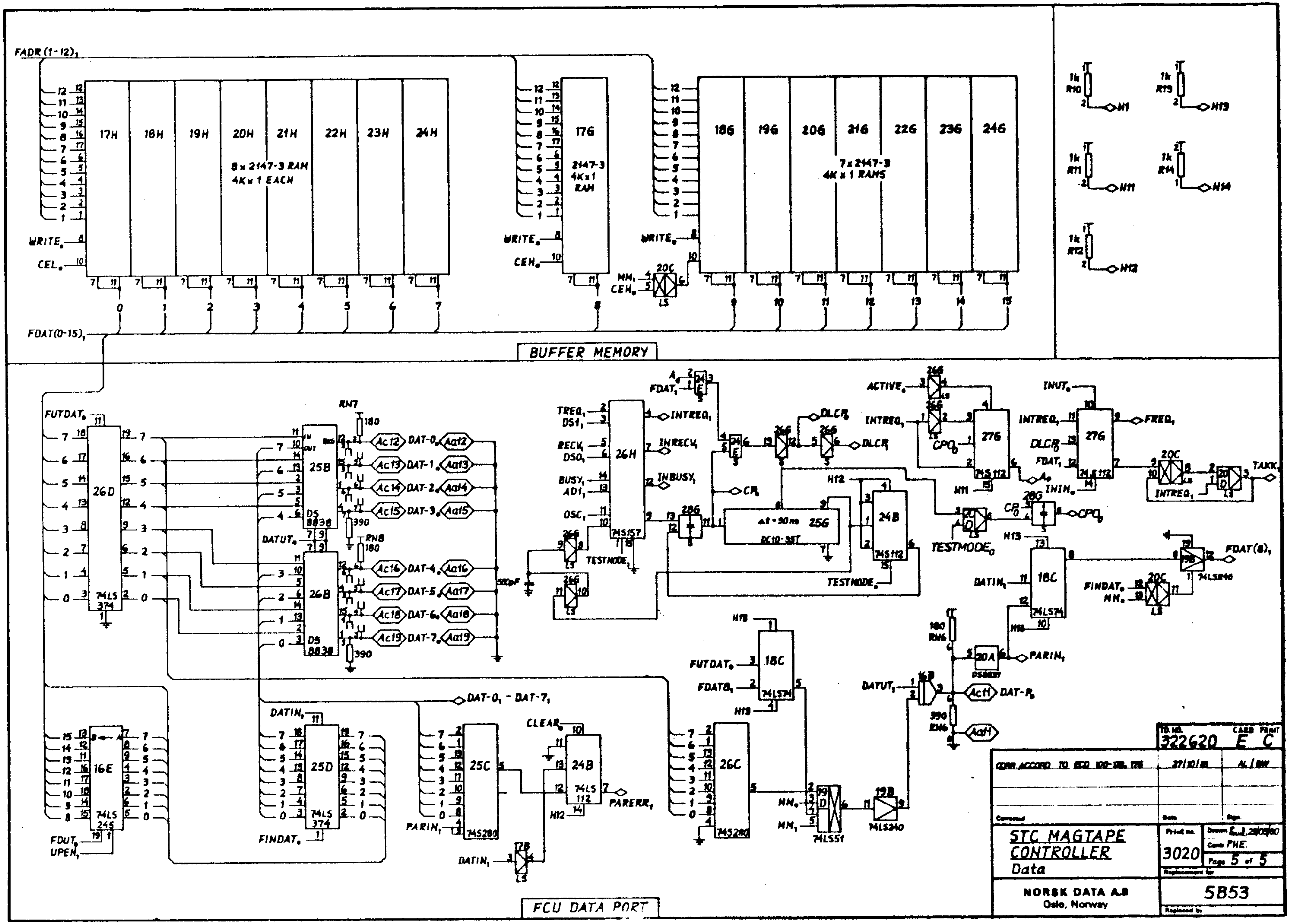

DISK OPERATION COMPLETE
ERROR GENERATION
START & TIMEOUT
INDICATORS
-5V POWER
ADDRESS SHIFT REGISTER
READ SEEK CONDITION
B-CABLE UNIT 0
To all 75107 pin 13
" " 75108 " 13
" " 75110 " 11
2 x 10µF "Dipped"
CORR. ACCORD. TO ECO 100-84 & 86.
SMD DATA
Unit Control
NORSK DATA A.S
Oslo, Norway
322619
3019
5A63

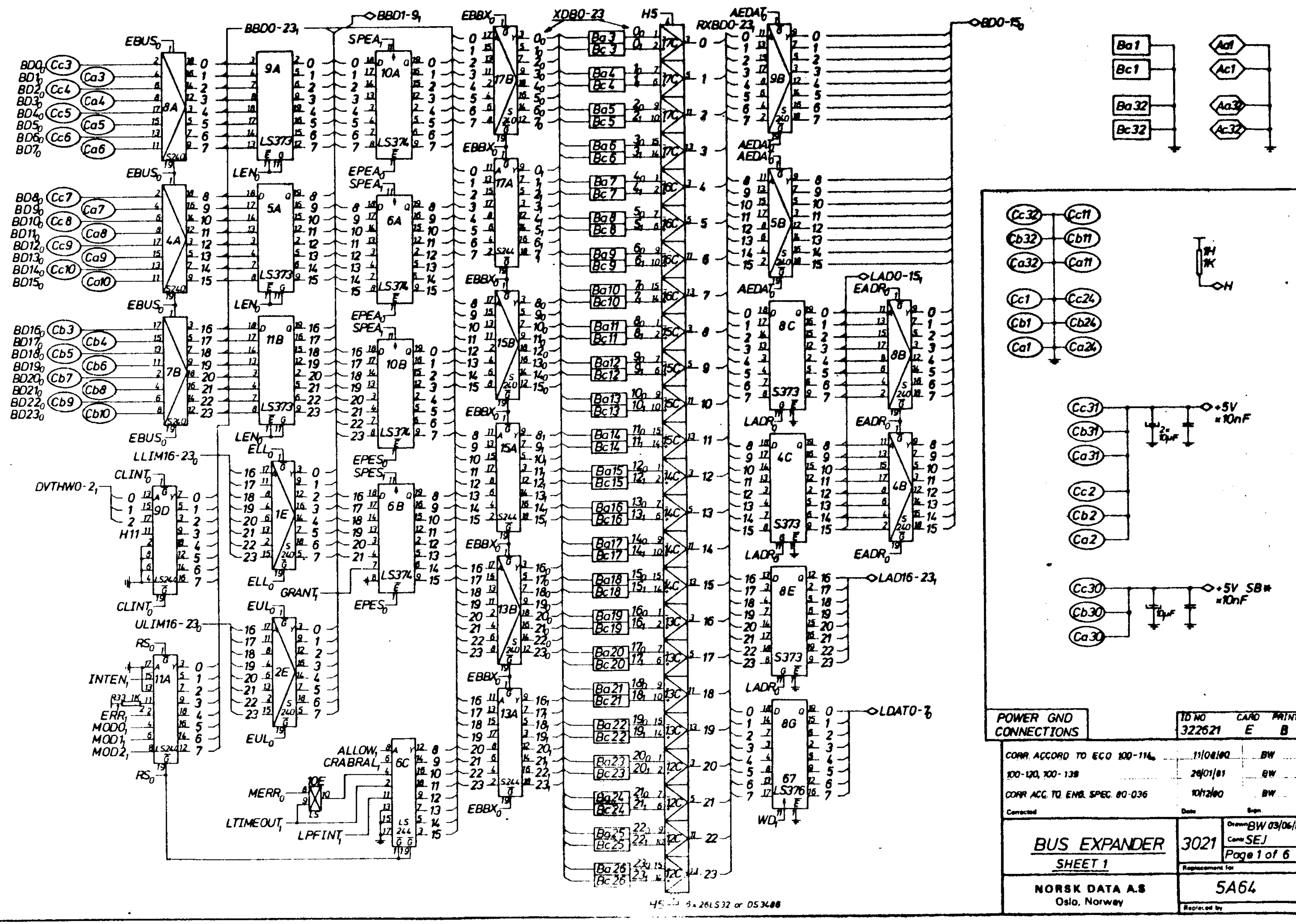

BUS DRIVE AND SENSE
7A
7B
5A
5B
6A
3A
7D
32x8 PROM
012-008
74S288
6D
25LS 2521
5C
4C
74LS 374
4D
74S138
3E
74S74
1D
74LS138
1E
74S151
1B
DC10-36T
7C
6C
74LS 244
7417
4 x 10 μF/20V
ERROR IND. (RED)
RFT IND. (GREEN)
RDYS IND. (GREEN)
HDENS IND. (YELLOW)
DMAIN IND. (YELLOW)
DMAOUT IND. (YELLOW)
ID. NO. 322620
CARD PRINT E C
CORR. ACCORD. TO ECO 100-131.175
STC MAGTAPE CONTROLLER
N-100 Bus Interface
NORSK DATA A.S
Oslo, Norway
Print no 3020
Cont. PHE
Page 1 of 5
5A49


DMA COUNTERS
CONTROL REGISTER
STATUS REGISTER
N-100 BUS CONTROLLER
1H 256 x 8 PROM 021-01 74S471
2H 256 x 8 PROM 021-02 74S471
3H 256 x 8 PROM 021-03 74S471
4E 32 x 8 PROM 021-04 74S288
8F AM 2942
6F AM 2942
10F AM 2942
9C 74LS245
12D 74LS244
12C 74LS244
8D 74LS175
STC MAGTAPE CONTROLLER
DMA and Controller
NORSK DATA A.S
Oslo, Norway
322620 E C
CORR. ACCORD TO ECO 100-118.175
3020
Page 2 of 5
5A50


FCU STATUS INPUTS
SENSE REGISTER 1
COMMAND REGISTER
SENSE REGISTER 2
FCU HANDSHAKE
TD.NO. 322620 E C
CORR. ACCORD TO ECO 100-132,178 27/10/81 AL/BW
STC MAGTAPE CONTROLLER
FCU Interface
Print no. 3020
Drawn 29/05/80
Cont. PHE
Page 3 of 5
5A51
NORSK DATA A.S
Oslo, Norway


BUFFER MEMORY ADDRESS
N-100 DATA PORT
FIFO CONTROL
TD. NO. 322620
CARD PRINT E C
CORR. ACCORD TO ECO 100-132,173 27/10/81 AL/BW
STC MAGTAPE CONTROLLER
Data and FIFO
Print no. 3020
Page 4 of 5
5A52
NORSK DATA A.S
Oslo, Norway


BUFFER MEMORY
8 x 2147-3 RAM
4K x 1 EACH
2147-3
4K x 1
RAM
7 x 2147-3
4K x 1 RAMS
FCU DATA PORT
322620 E C
CORR. ACCORD TO ECO 100-118, 175
27/10/81
STC MAGTAPE
CONTROLLER
Data
3020
Page 5 of 5
NORSK DATA A.S
Oslo, Norway
5B53



TD NO	CARD	PRINT
322621	E	B

CORR. ACCORD TO ECO 100-114, 100-120, 100-138	11/08/80	BW
	26/01/81	BW
CORR ACC. TO ENG. SPEC. 80-036	10/12/80	BW
Corrected	Date	Sign.

BUS EXPANDER

SHEET 1

3021

Drawn BW 03/06/80

Cont. SEJ

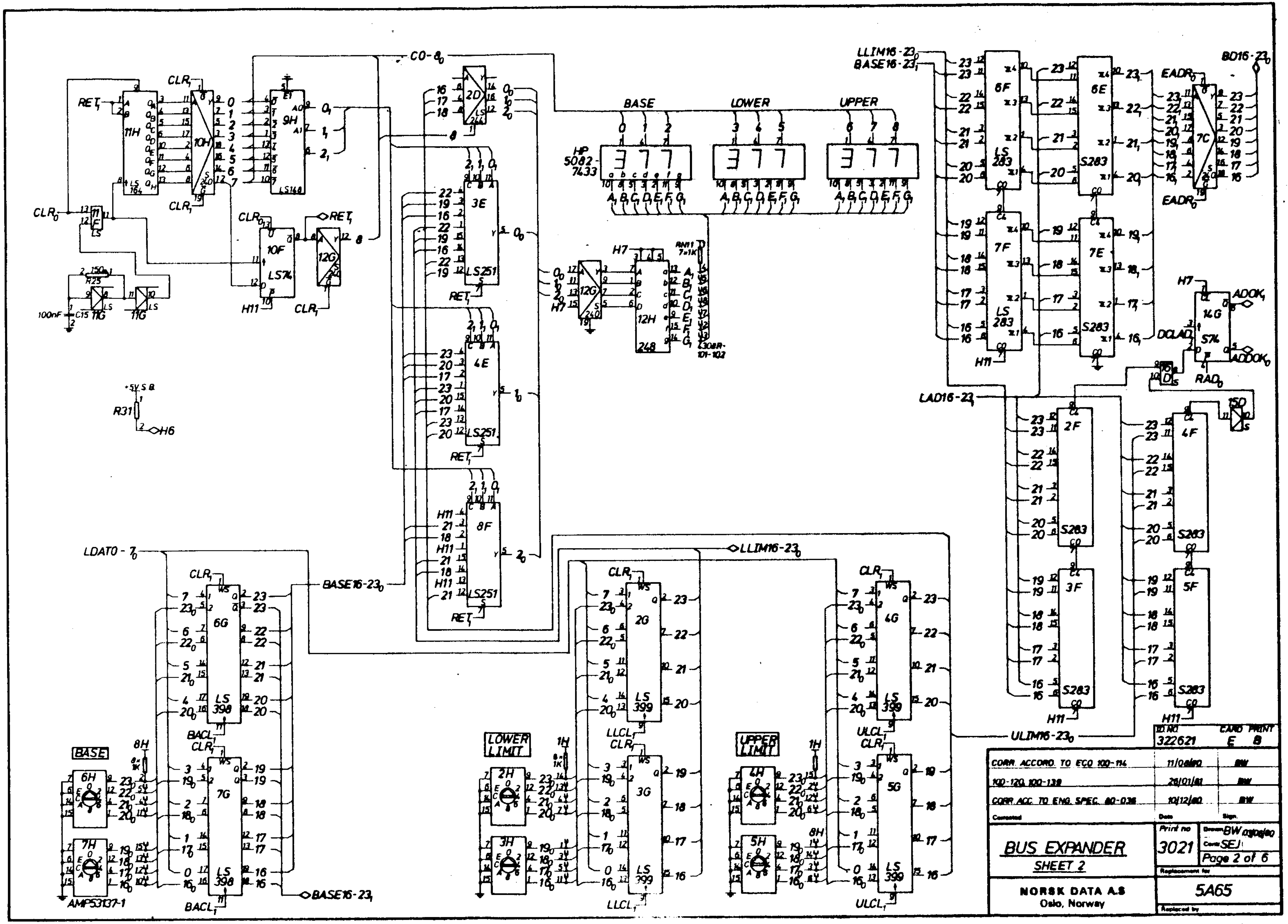
Page 1 of 6

Replacement for

5A64

Replaced by

NORSK DATA A.S
Oslo, Norway



ID NO	CARD PRINT
322621	E B

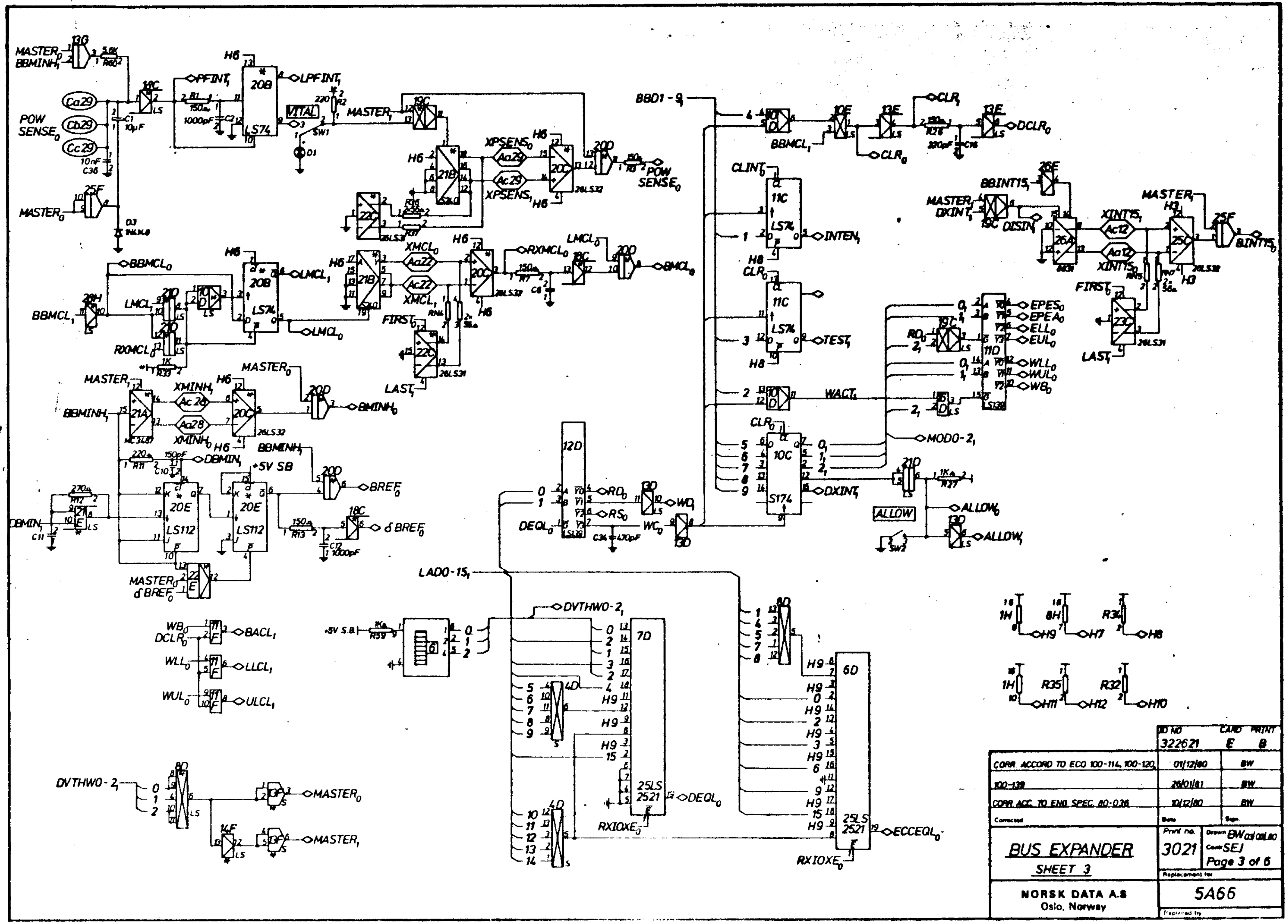
Corrected	Date	Sign.
CORR. ACCORD. TO ECO 100-114	11/02/80	BW
100-120, 100-139	26/01/81	BW
CORR. ACC. TO ENG. SPEC. 80-036	10/12/80	BW

BUS EXPANDER
SHEET 2

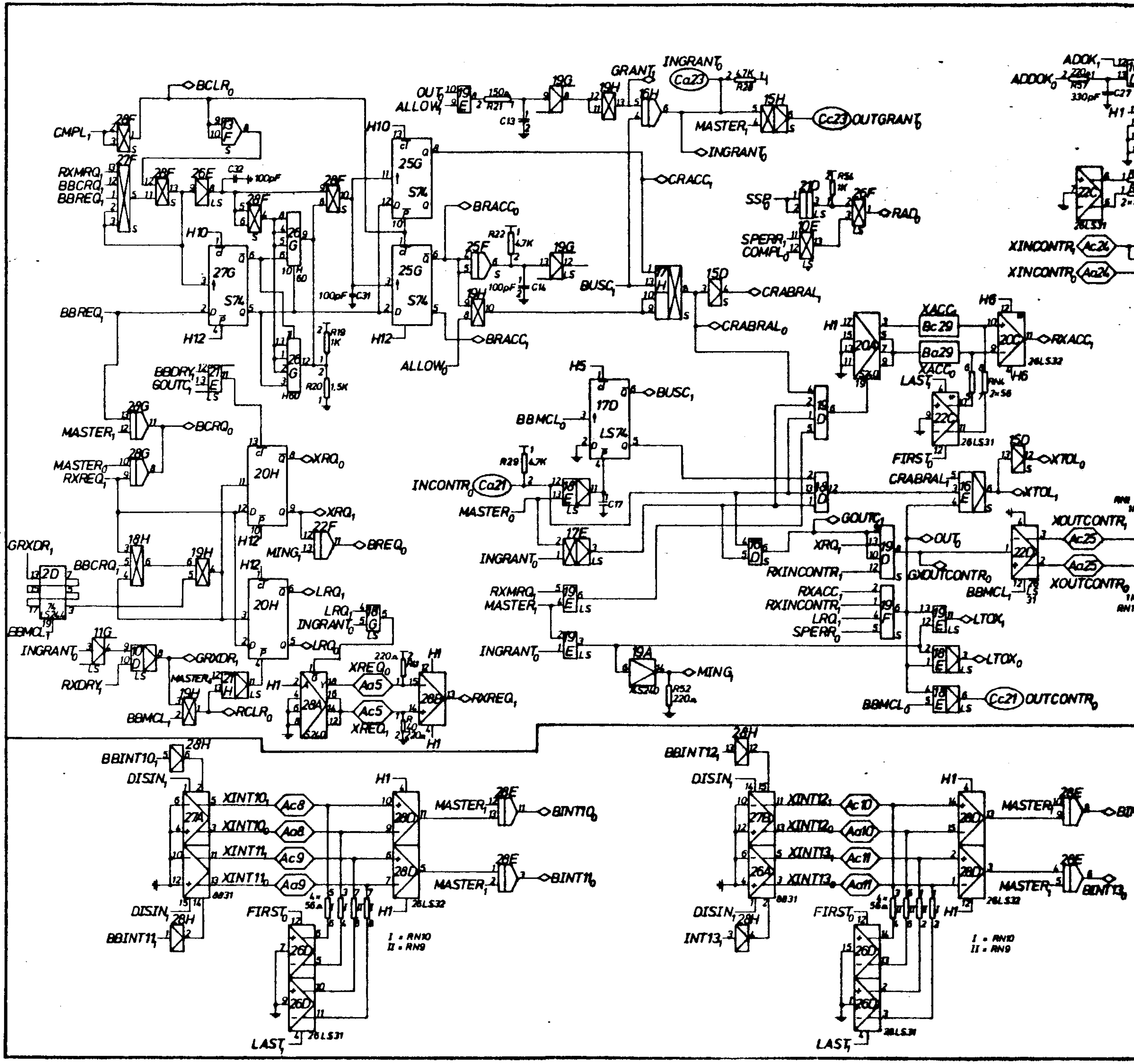
Print no 3021 — Drawn BW — Contr. SEJ — Page 2 of 6

Replacement for 5A65

NORSK DATA A.S
Oslo, Norway



ID NO 322621
CARD E
PRINT B
CORR. ACCORD TO ECO 100-114, 100-120, 01/12/80 BW
100-139 28/01/81 BW
CORR. ACC. TO ENG. SPEC. 80-036 10/12/80 BW
Corrected
Date
Sign
BUS EXPANDER
SHEET 3
Print no. 3021
Drawn BW 03/08.80
Contr. SEJ
Page 3 of 6
Replacement for
5A66
Replaced by
NORSK DATA A.S
Oslo, Norway



TD NO. 322621	CARD E	PRINT B
CORR. ACCORD. TO ECO 100-114,120-120	01/12/80	BW
100-130	28/01/81	BW
CORR. ACC. TO ENG. SPEC. 80-036	10/12/80	BW
Comment	Date	Sign.

BUS EXPANDER

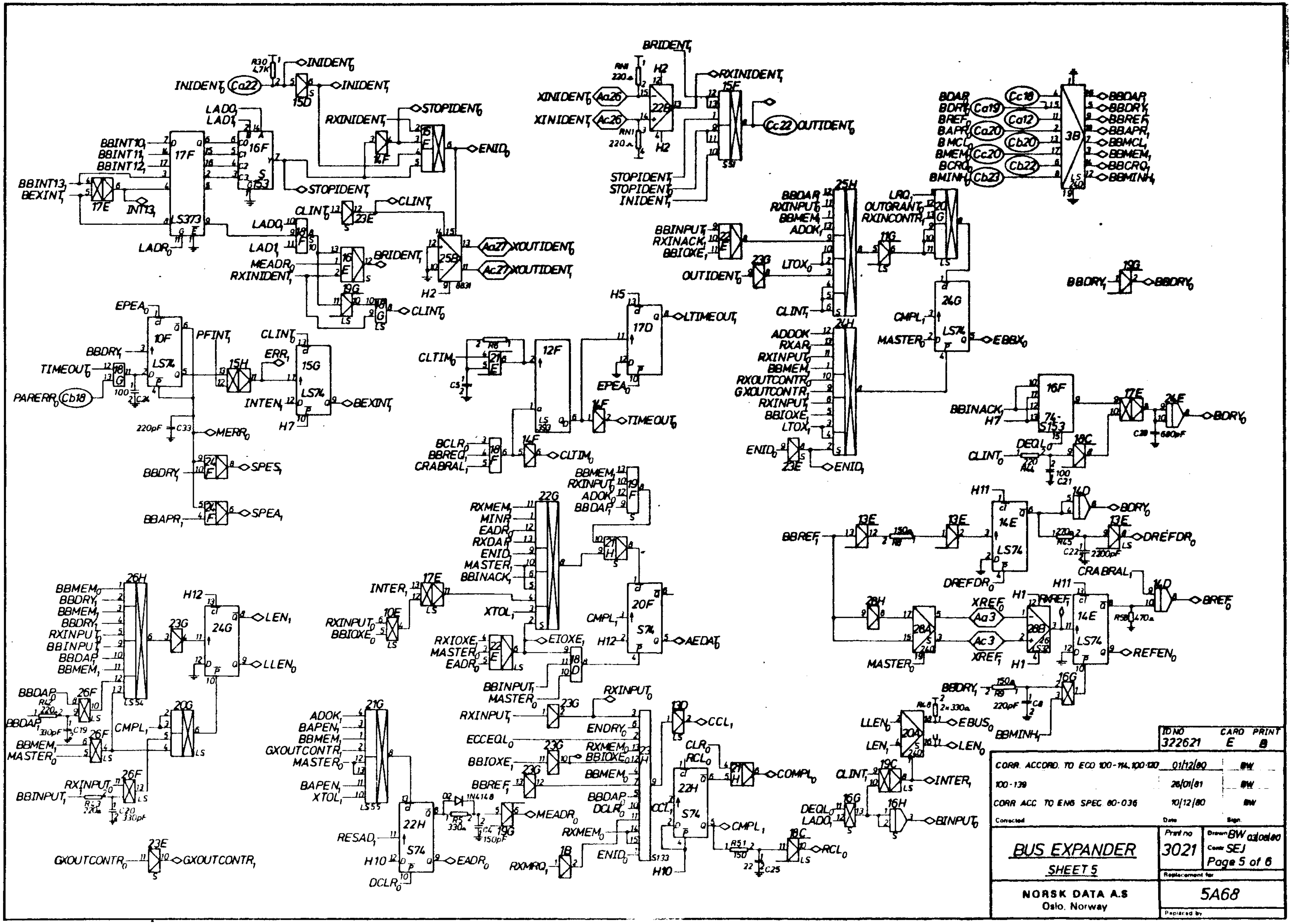
SHEET 4

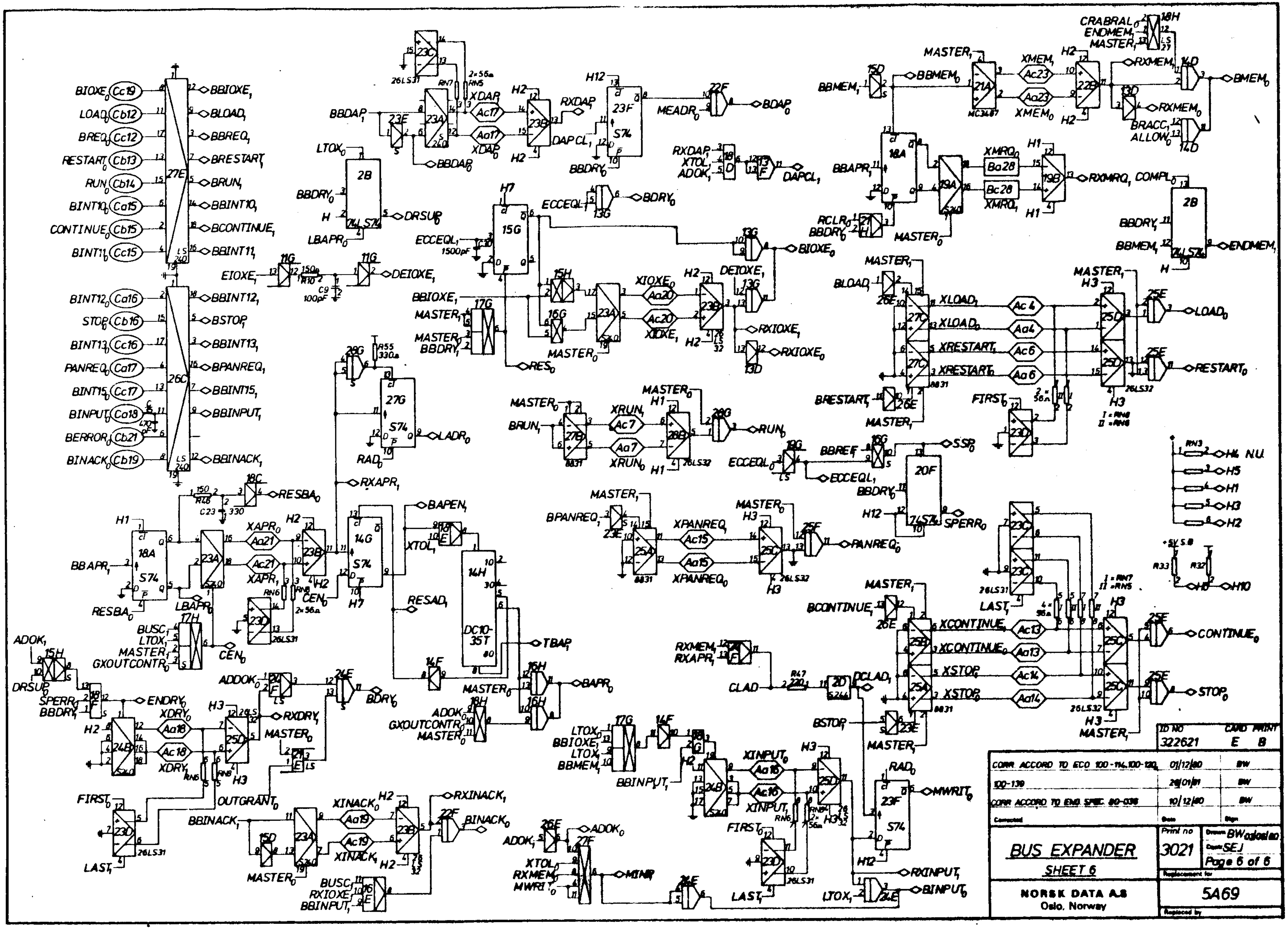
Print no. 3021 — Drawn BW 03/09/80 — Checked SE.I — Page 4 of 6

Replacement for: 5A67

Replaced by

NORSK DATA A.S
Oslo, Norway


ID NO 322621
CARD E
PRINT B
CORR. ACCORD. TO ECO 100-114, 100-130 01/12/80 BW
100-139 26/01/81 BW
CORR ACC TO ENG SPEC 80-036 10/12/80 BW
Corrected
Date
Sign.
BUS EXPANDER
SHEET 5
Print no 3021
Drawn BW 03/09/80
Contr SEJ
Page 5 of 6
Replacement for
5A68
Prepared by
NORSK DATA A.S
Oslo, Norway



ID NO	CARD	PRINT
322621	E	B

CORR. ACCORD TO ECO 100-114,100-120	01/12/80	BW
100-139	28/01/81	BW
CORR. ACCORD TO ENG. SPEC. 80-038	10/12/80	BW
Corrected	Date	Sign

BUS EXPANDER

SHEET 6

Print no 3021

Drawn BW Oslo/80

Checked SEJ

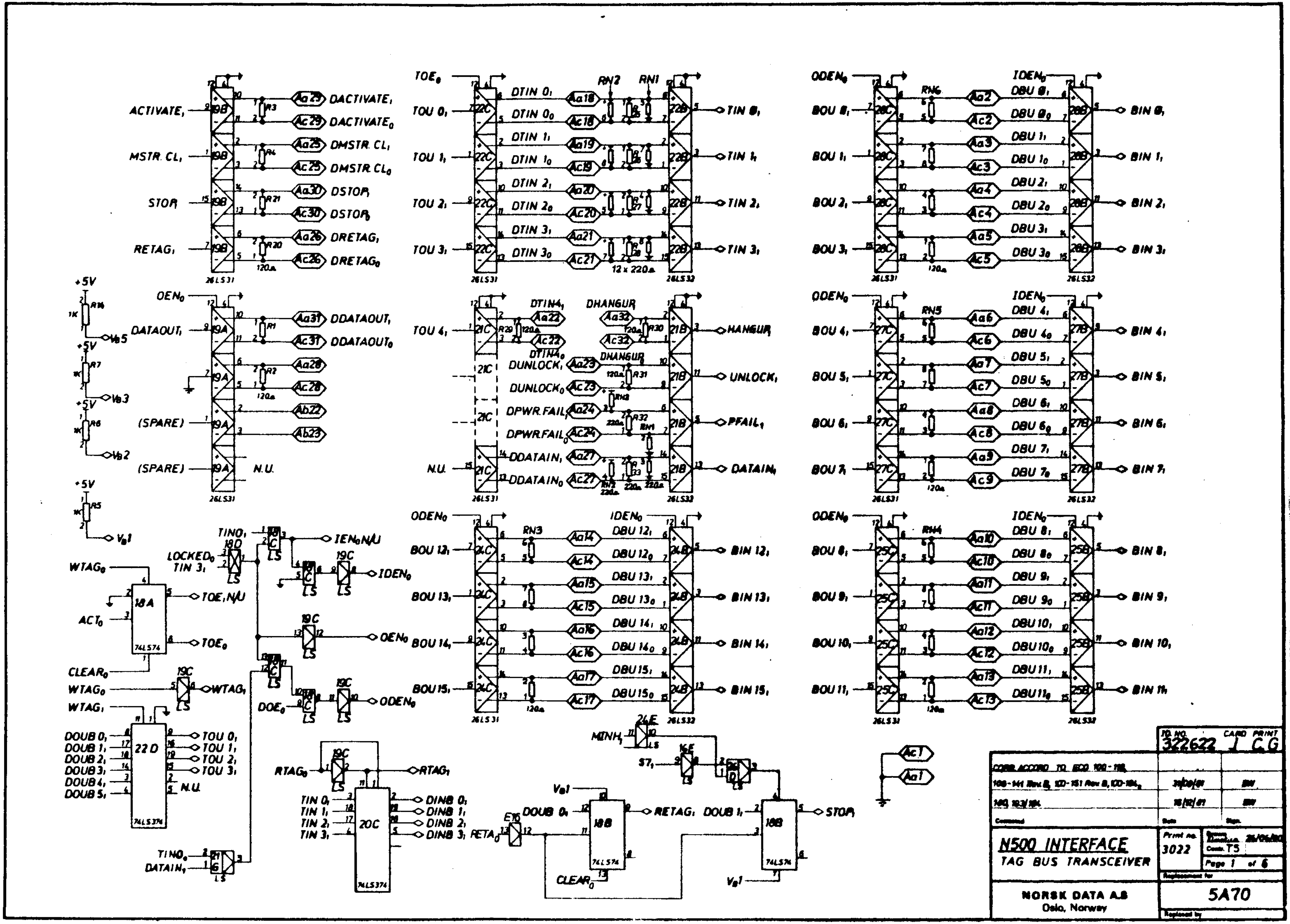
Page 6 of 6

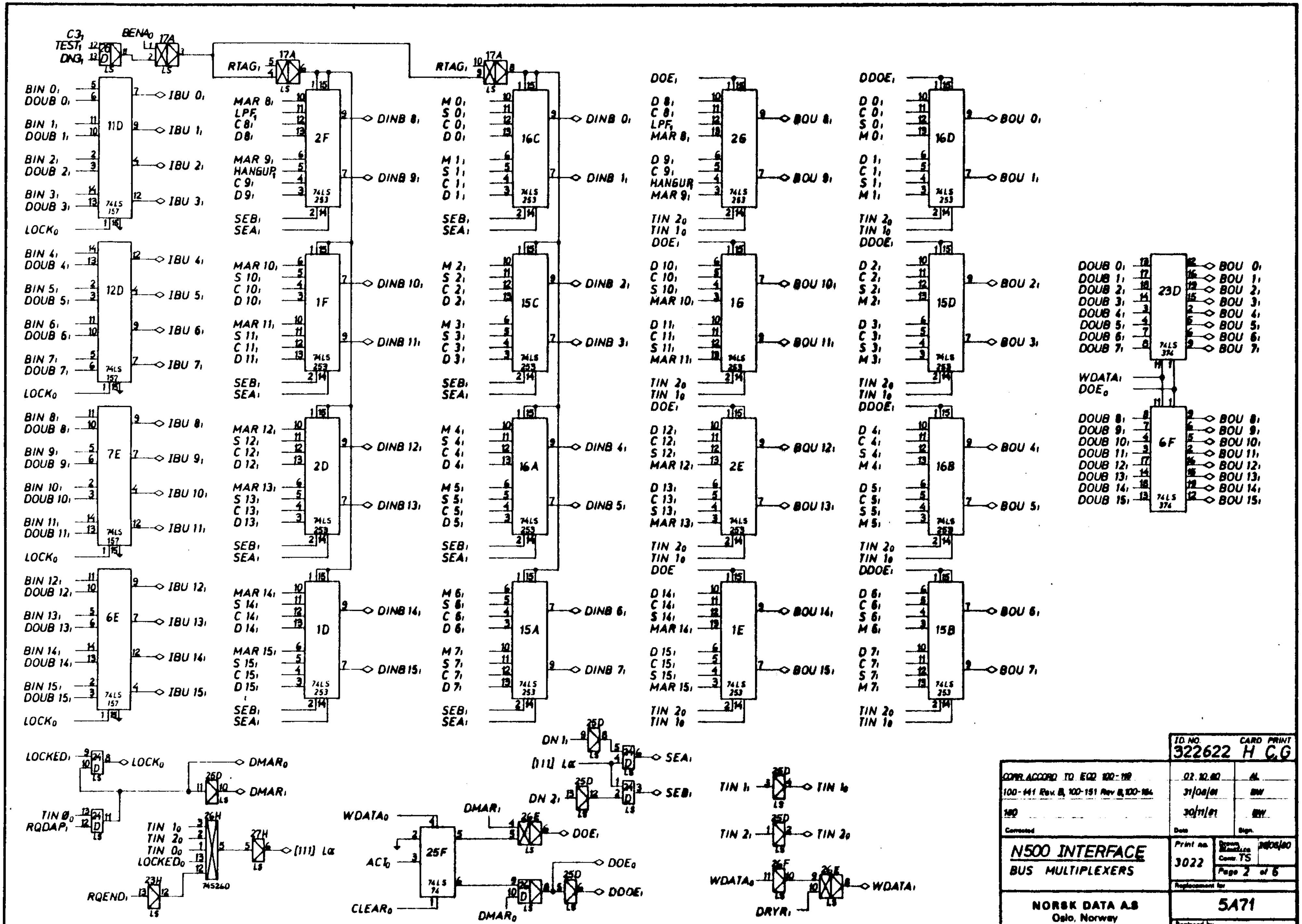
Replacement for

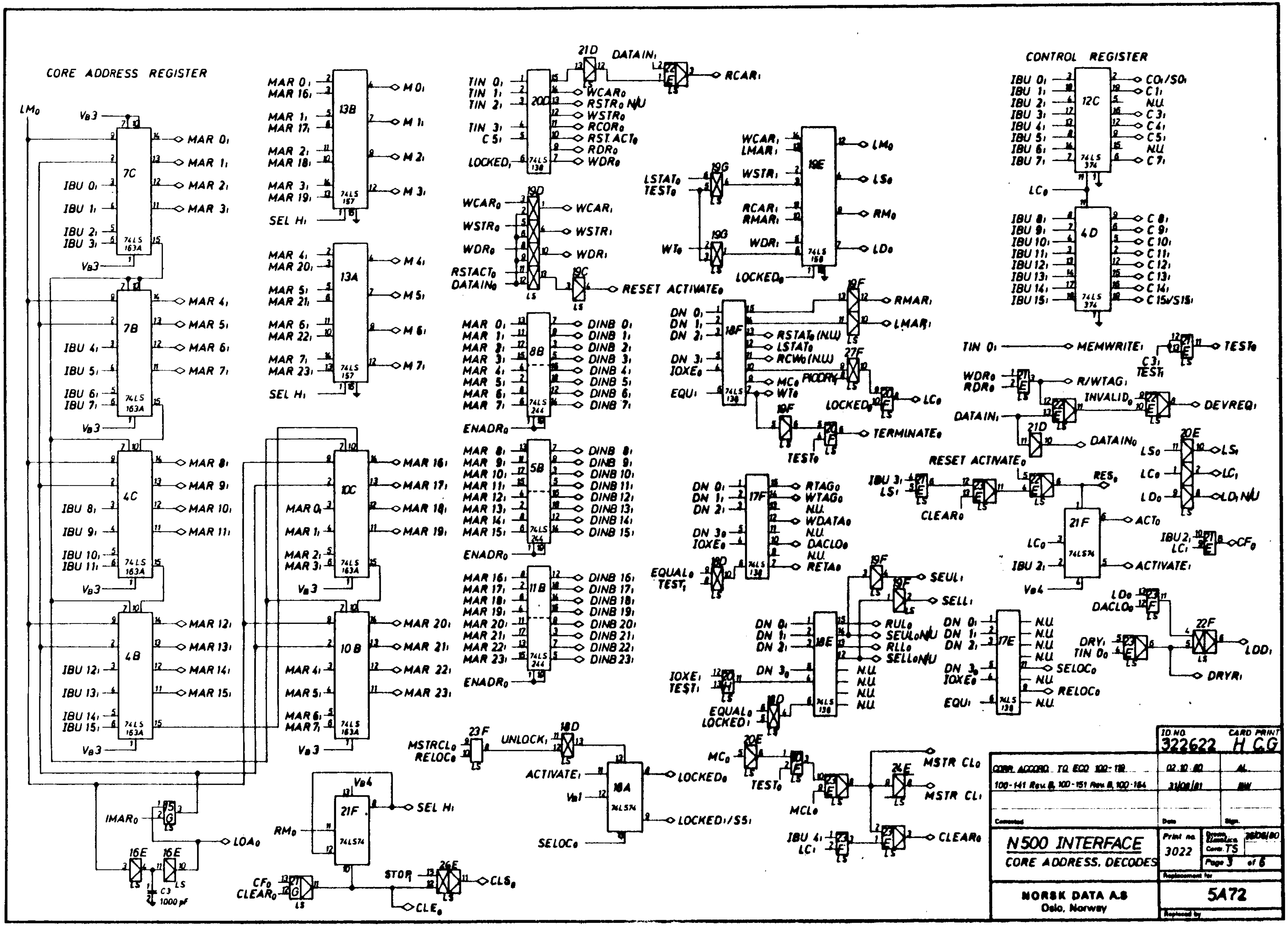
5A69

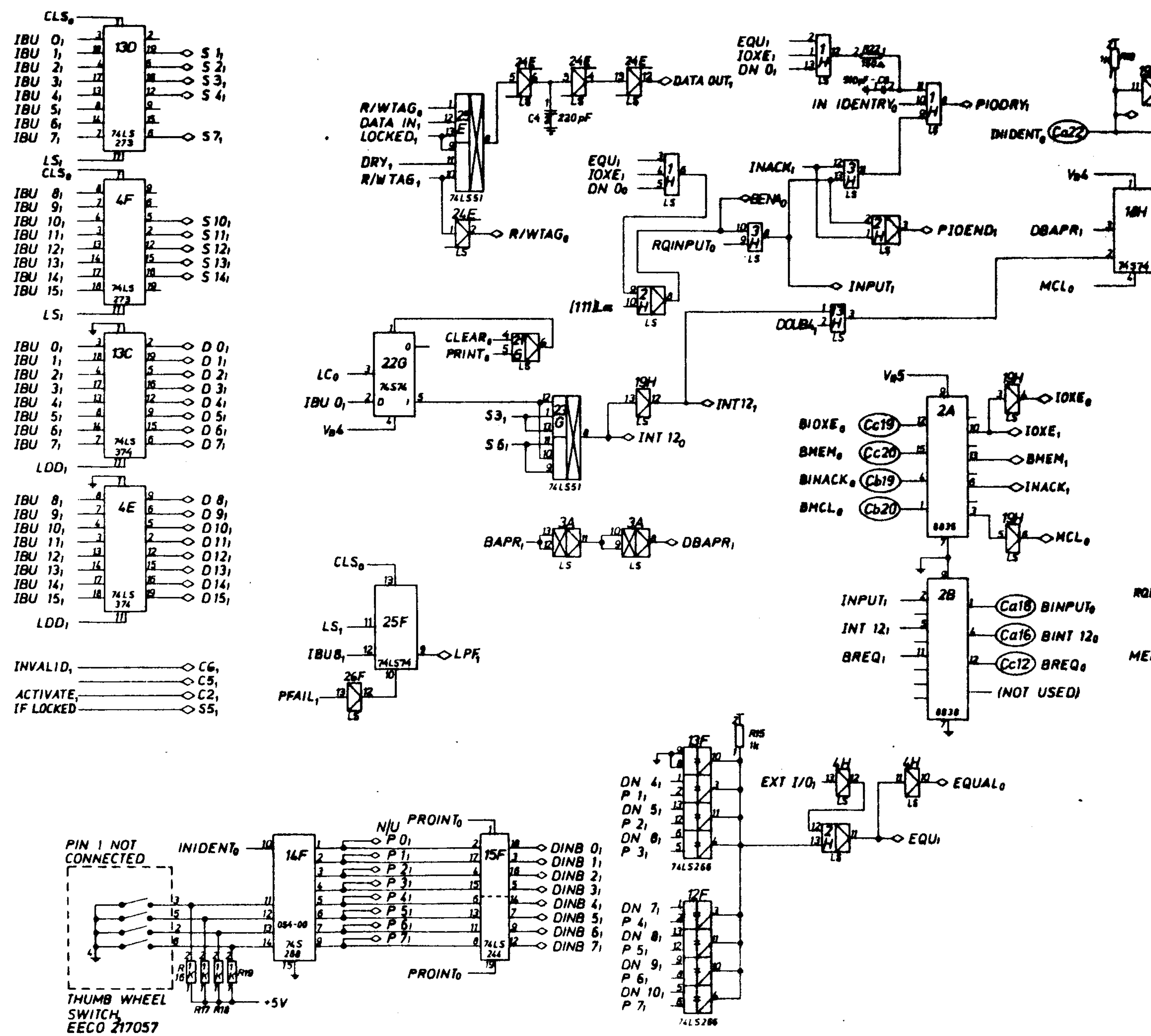
Replaced by

NORSK DATA A.S
Oslo, Norway


TD. NO. 322622
CARD PRINT J C.G
CORR. ACCORD TO ECO 100-118
100-141 Rev B, 100-151 Rev B, 100-184
31/03/81
100, 183/184
15/12/81
N500 INTERFACE
TAG BUS TRANSCEIVER
Print no. 3022
Cont. TS
Page 1 of 6
NORSK DATA A.S
Oslo, Norway
5A70


ID NO. 322622
CARD PRINT H C,G
CORR. ACCORD. TO ECO 100-119 02.10.80
100-141 Rev. B, 100-151 Rev. B, 100-164 31/08/81
180 30/11/81
N500 INTERFACE
BUS MULTIPLEXERS
Print no. 3022
Cont. TS
Page 2 of 6
NORSK DATA A.S
Oslo, Norway
5A71


CORE ADDRESS REGISTER
CONTROL REGISTER
ID NO 322622
CARD PRINT H CG
CORR. ACCORD. TO ECO 100-118 02.10.80
100-141 Rev B, 100-151 Rev B, 100-164 31/08/81
Corrected
Date
Sign.
N500 INTERFACE
CORE ADDRESS, DECODES
Print no. 3022
Drawn TS 28/08/80
Page 3 of 6
Replacement for
5A72
Replaced by
NORSK DATA A.S
Oslo, Norway



TG. NO. 322622	J	CARD PRINT C,G
CORR. ACCORD. TO ECO 100-118	02.10.80	AL
100-141 Rev. B, 100-151 Rev. B, 100-164,	31/08/81	BW
180, 183/184	18/12/81	BW
Corrected	Date	Sign.

N500 INTERFACE

IDENT REGS

Print no. 3022

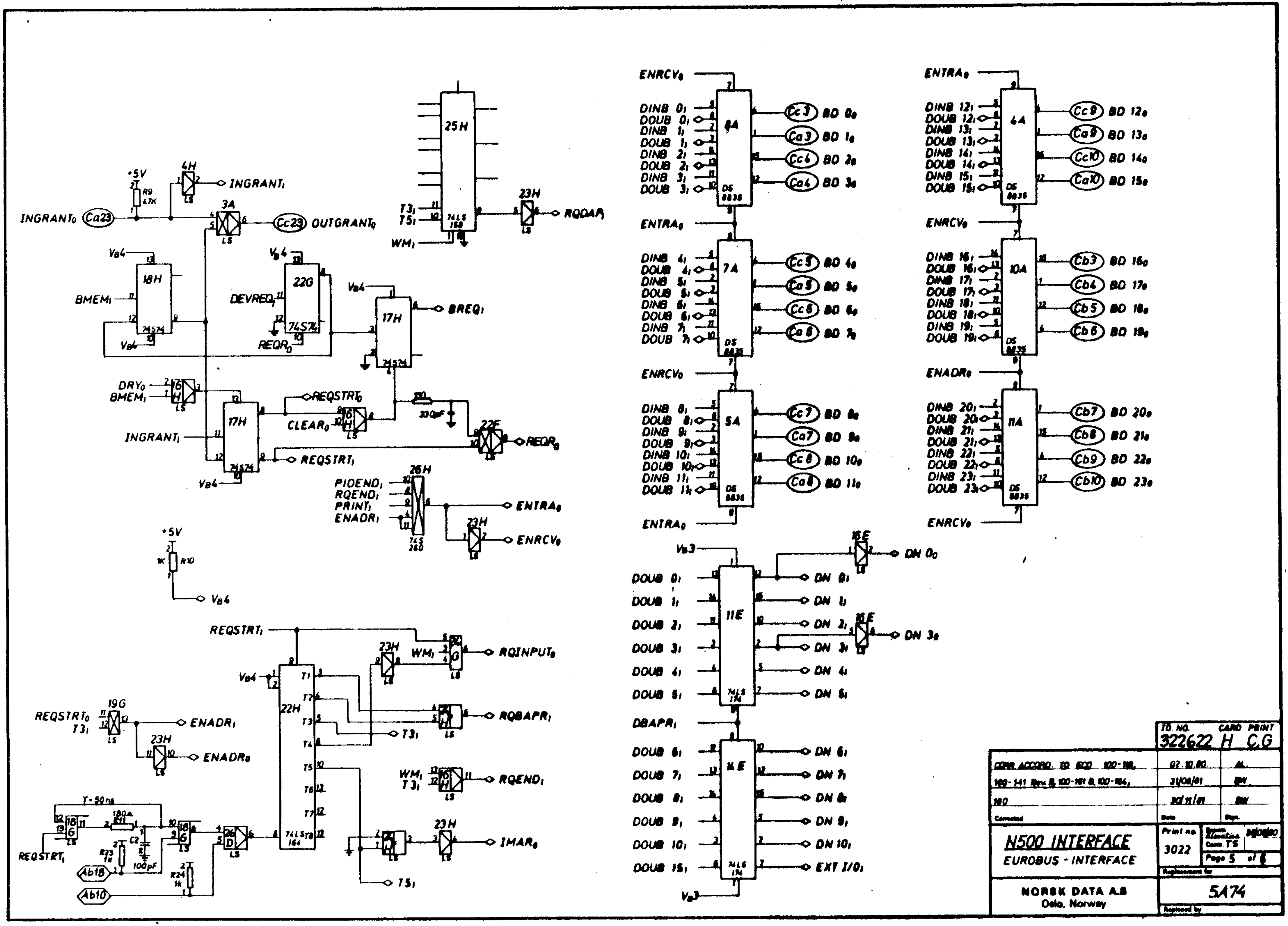
Cont. TS

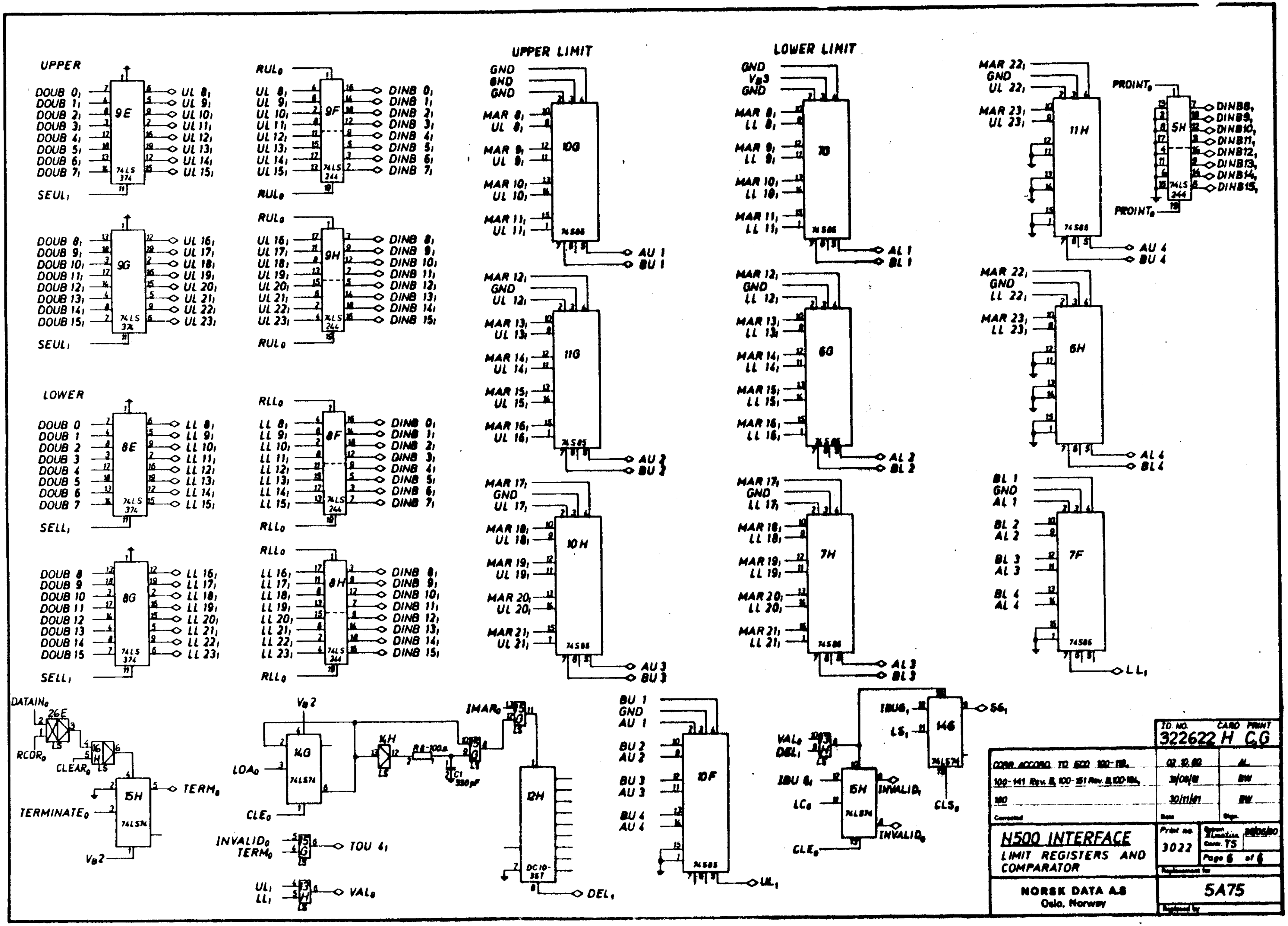
Page 4 of 6

Replacement for: 5A73

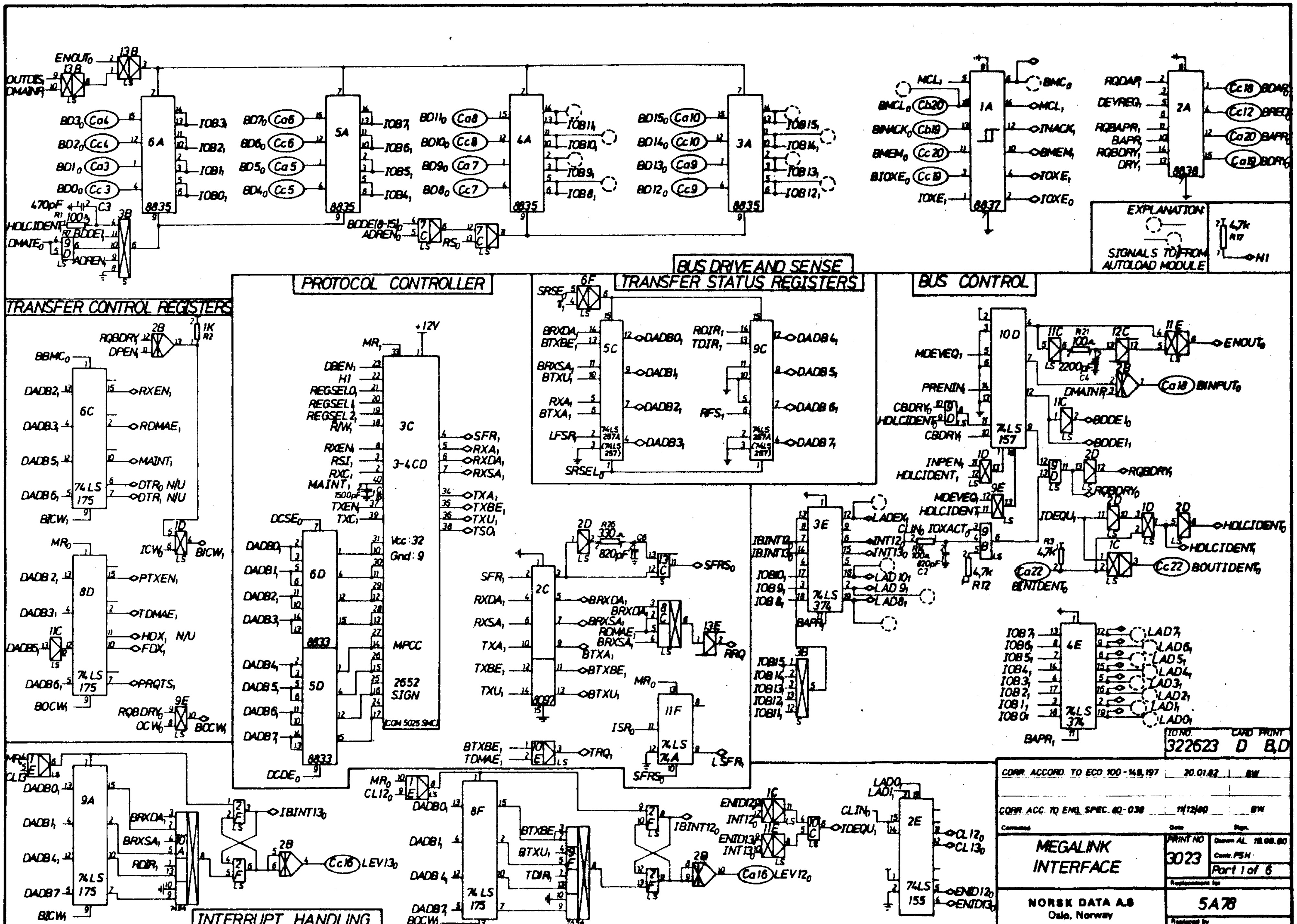
NORSK DATA A.S
Oslo, Norway

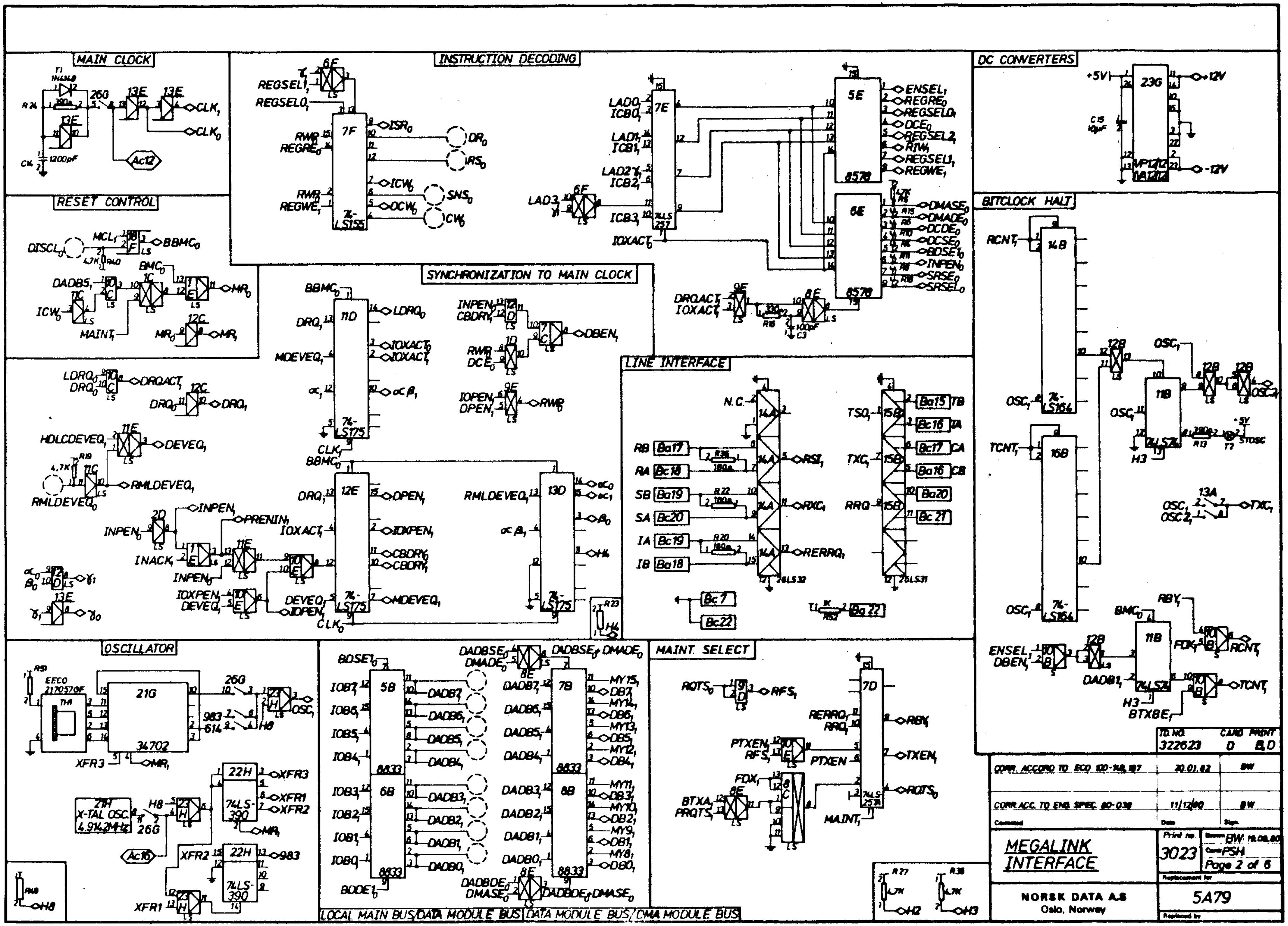
Replaced by

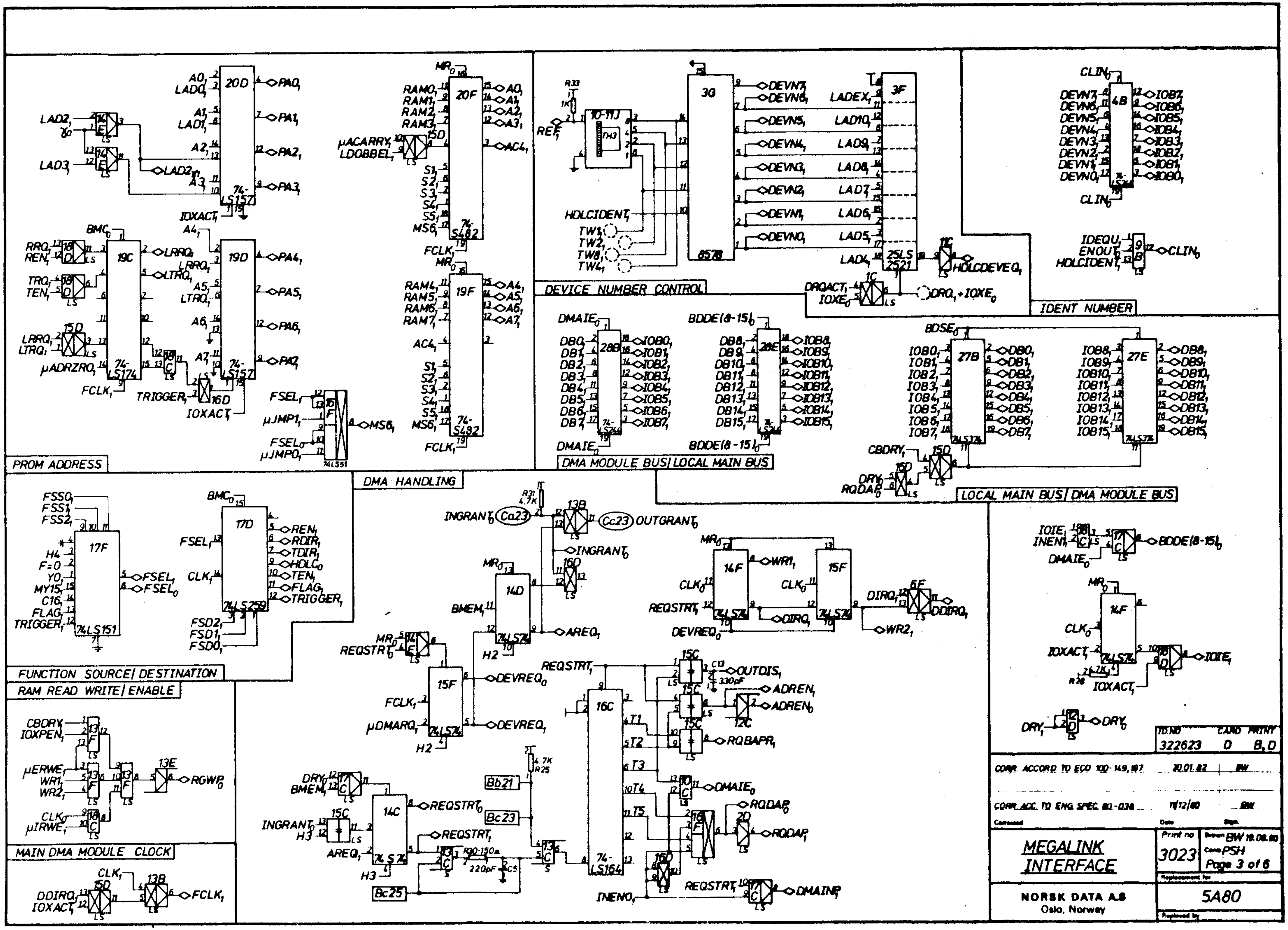

N500 INTERFACE
EUROBUS - INTERFACE
NORSK DATA A.S
Oslo, Norway
TD. NO. 322622 H
CARD PRINT C,G
Print no. 3022
Page 5 of 6
5A74
CORR. ACCORD TO ECO 100-118, 02.10.80
100-141 Rev. B, 100-161 B, 100-164, 31/08/81
180 30/11/81

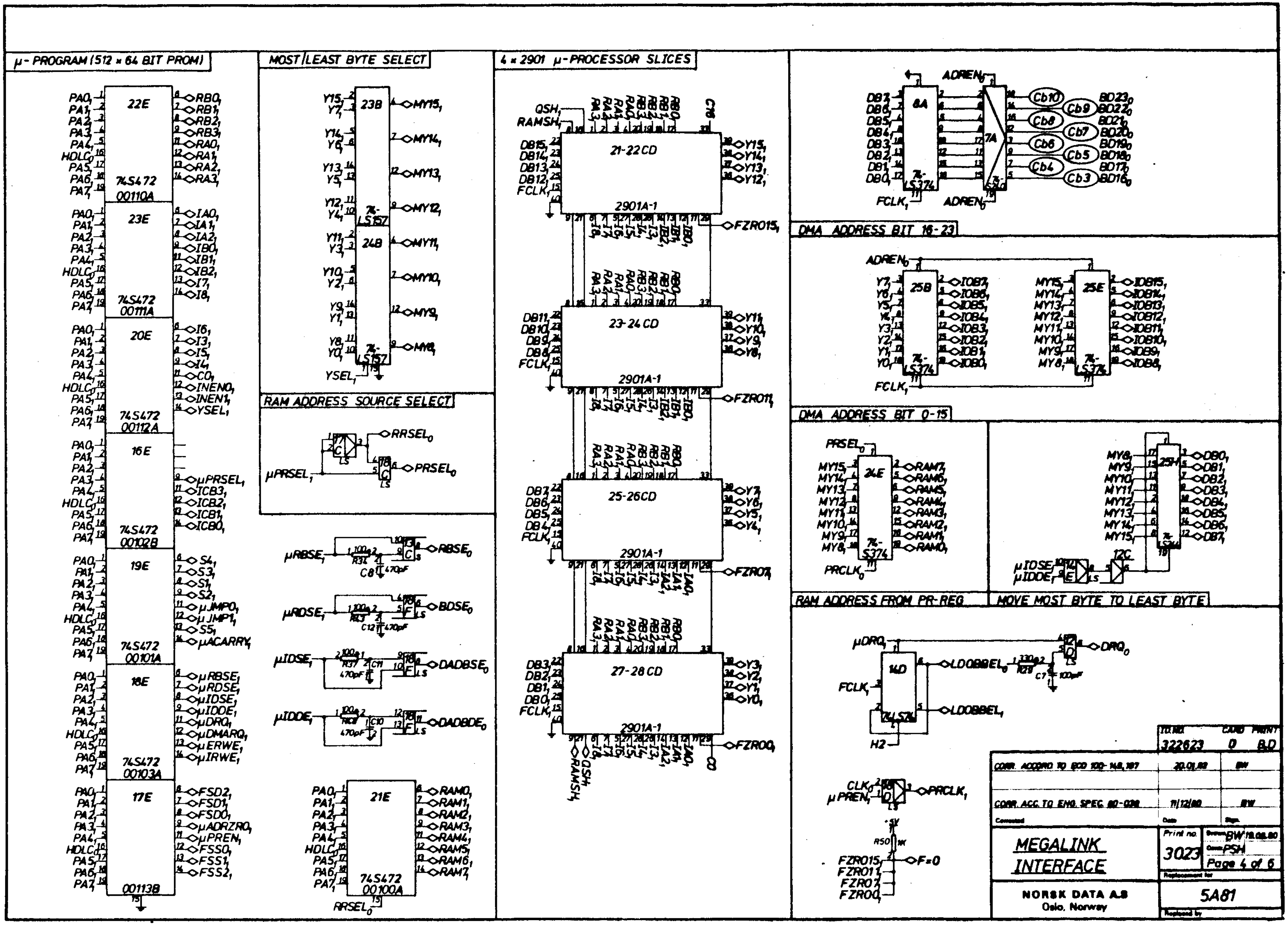


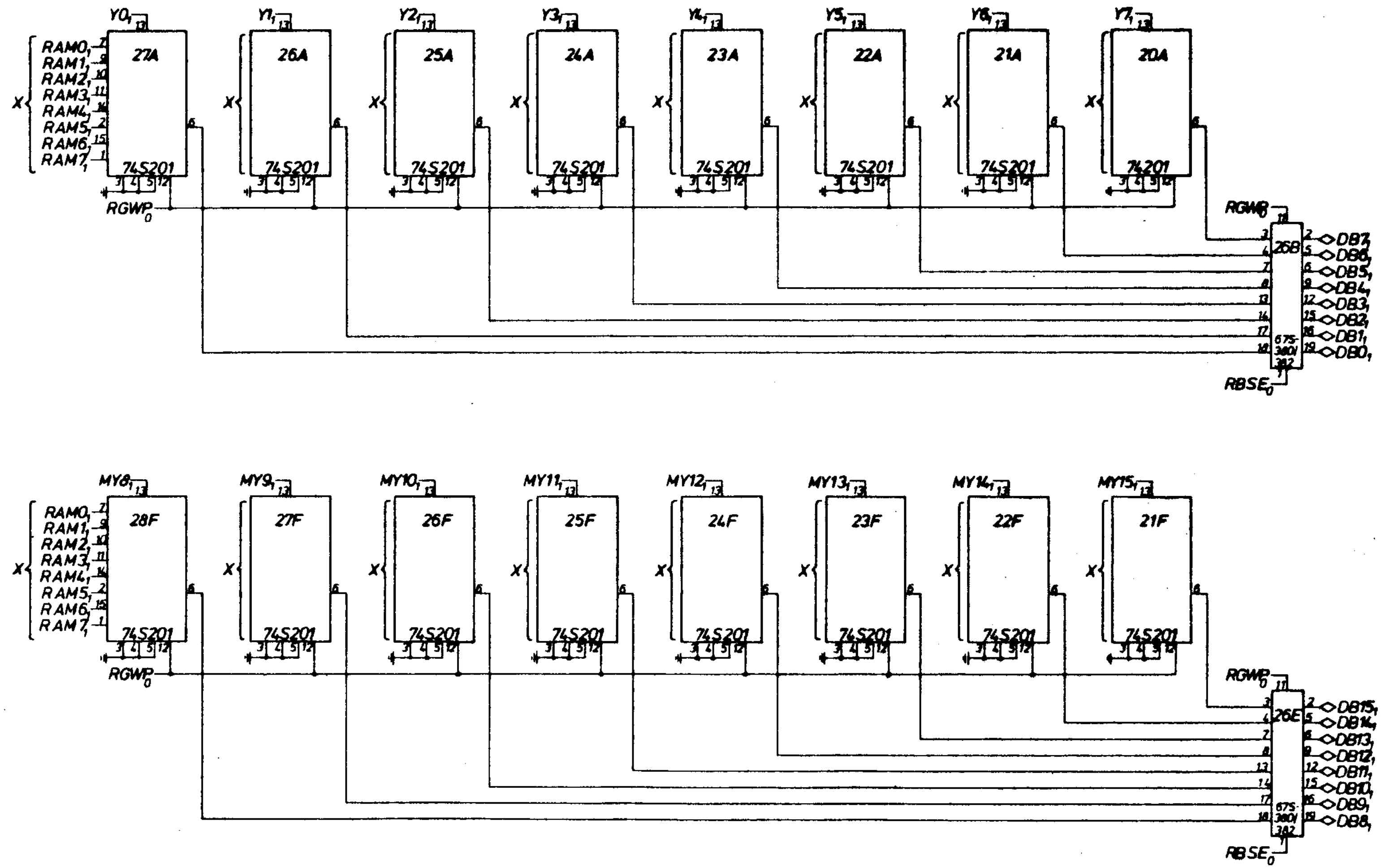
UPPER
LOWER
UPPER LIMIT
LOWER LIMIT
9E
9G
8E
8G
9F
9H
8F
8H
10G
11G
10H
7G
6G
7H
11H
6H
7F
5H
10F
12H
14G
14H
15H
14G
26E
74LS 374
74LS 244
74S85
74LS74
DC10-387
DOUB 0, DOUB 1, DOUB 2, DOUB 3, DOUB 4, DOUB 5, DOUB 6, DOUB 7
DOUB 8, DOUB 9, DOUB 10, DOUB 11, DOUB 12, DOUB 13, DOUB 14, DOUB 15
SEUL
SELL
RUL
RLL
UL 8 – UL 23
LL 8 – LL 23
DINB 0 – DINB 15
DINB8 – DINB15
PROINT
MAR 8 – MAR 23
GND
VB3
AU 1
BU 1
AU 2
BU 2
AU 3
BU 3
AU 4
BU 4
AL 1
BL 1
AL 2
BL 2
AL 3
BL 3
AL 4
BL 4
LL
UL
DATAIN
RCOR
CLEAR
TERMINATE
TERM
VB2
LOA
CLE
IMAR
R8=100Ω
C1 330pF
INVALID
TOU 4
VAL
DEL
IBUG
LS
SG
CLS
IBU 6
LC
ID. NO. 322622 H
CARD PRINT CG
CORR. ACCORD. TO ECO 100-118.
100-141 Rev. B, 100-151 Rev. B, 100-184.
180
Corrected
02.10.80
31/08/81
30/11/81
Date
AL
BW
BW
Sign.
N500 INTERFACE
LIMIT REGISTERS AND COMPARATOR
NORSK DATA A.S
Oslo, Norway
Print no. 3022
Cont. TS
Page 6 of 6
Replacement for
5A75
Replaced by


PROTOCOL CONTROLLER
BUS DRIVE AND SENSE
TRANSFER STATUS REGISTERS
BUS CONTROL
TRANSFER CONTROL REGISTERS
INTERRUPT HANDLING
EXPLANATION:
SIGNALS TO/FROM AUTOLOAD MODULE
322623 D B,D
CORR. ACCORD. TO ECO 100-148,197 20.01.82 BW
CORR. ACC. TO ENG. SPEC. 80-038 11/12/80 BW
MEGALINK INTERFACE
3023
Part 1 of 6
5A78
NORSK DATA A.S
Oslo, Norway


MAIN CLOCK
INSTRUCTION DECODING
DC CONVERTERS
RESET CONTROL
BITCLOCK HALT
SYNCHRONIZATION TO MAIN CLOCK
LINE INTERFACE
OSCILLATOR
MAINT. SELECT
LOCAL MAIN BUS/DATA MODULE BUS
DATA MODULE BUS/DMA MODULE BUS
TD NO. 322623
CARD D
PRINT B,D
CORR. ACCORD TO ECO 100-148,187 20.01.82 BW
CORR.ACC. TO ENG. SPEC. 80-038 11/12/80 BW
MEGALINK INTERFACE
Print no. 3023
BW 19.08.80
PSH
Page 2 of 6
NORSK DATA A.S
Oslo, Norway
5A79


PROM ADDRESS
DMA HANDLING
DEVICE NUMBER CONTROL
IDENT NUMBER
DMA MODULE BUS/LOCAL MAIN BUS
LOCAL MAIN BUS/DMA MODULE BUS
FUNCTION SOURCE/DESTINATION
RAM READ WRITE/ENABLE
MAIN DMA MODULE CLOCK
TD NO 322623 CARD D PRINT B,D
CORR. ACCORD TO ECO 100-149,197 20.01.82 BW
CORR. ACC. TO ENG SPEC 80-038 11/12/80 BW
MEGALINK INTERFACE
Print no 3023
Drawn BW 19.08.80
Cons PSH
Page 3 of 6
5A80
NORSK DATA A.S
Oslo, Norway


μ-PROGRAM (512 × 64 BIT PROM)
MOST/LEAST BYTE SELECT
RAM ADDRESS SOURCE SELECT
4 × 2901 μ-PROCESSOR SLICES
DMA ADDRESS BIT 16-23
DMA ADDRESS BIT 0-15
RAM ADDRESS FROM PR-REG
MOVE MOST BYTE TO LEAST BYTE
22E
74S472
00110A
23E
74S472
00111A
20E
74S472
00112A
16E
74S472
00102B
19E
74S472
00101A
18E
74S472
00103A
17E
00113B
21E
74S472
00100A
23B
24B
74-LS157
21-22CD
23-24CD
25-26CD
27-28CD
2901A-1
8A
7A
25B
25E
24E
25H
14D
74-LS374
CORR. ACCORD TO ECO 100-148,187
20.01.82
CORR. ACC. TO ENG. SPEC. 80-038
11/12/80
Print no.
3023
Page 4 of 6
MEGALINK
INTERFACE
NORSK DATA A.S
Oslo, Norway
322623
5A81



256 × 16 BIT RAM

TD.NO.	CARD	PRINT
322623	D	B,D

Corrected	Date	Sign
CORR. ACCORD TO ECO 100-148,197	20.01.82	BW
CORR. ACC. TO ENG. SPEC. 80-038	11/12/80	BW

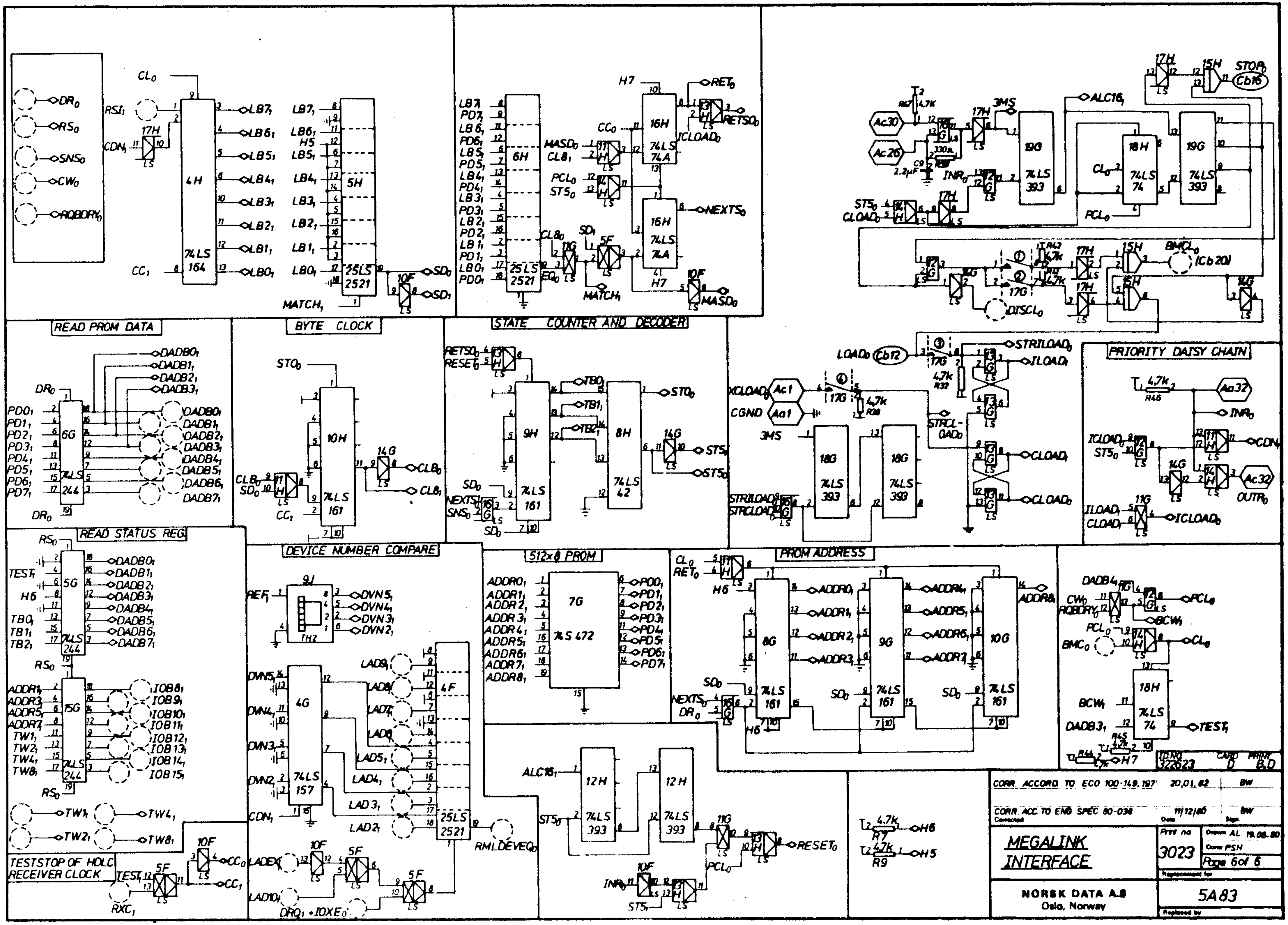
MEGALINK INTERFACE

Print no. 3023 — Drawn BW 19.08.80 — Contr. PSH — Page 5 of 6

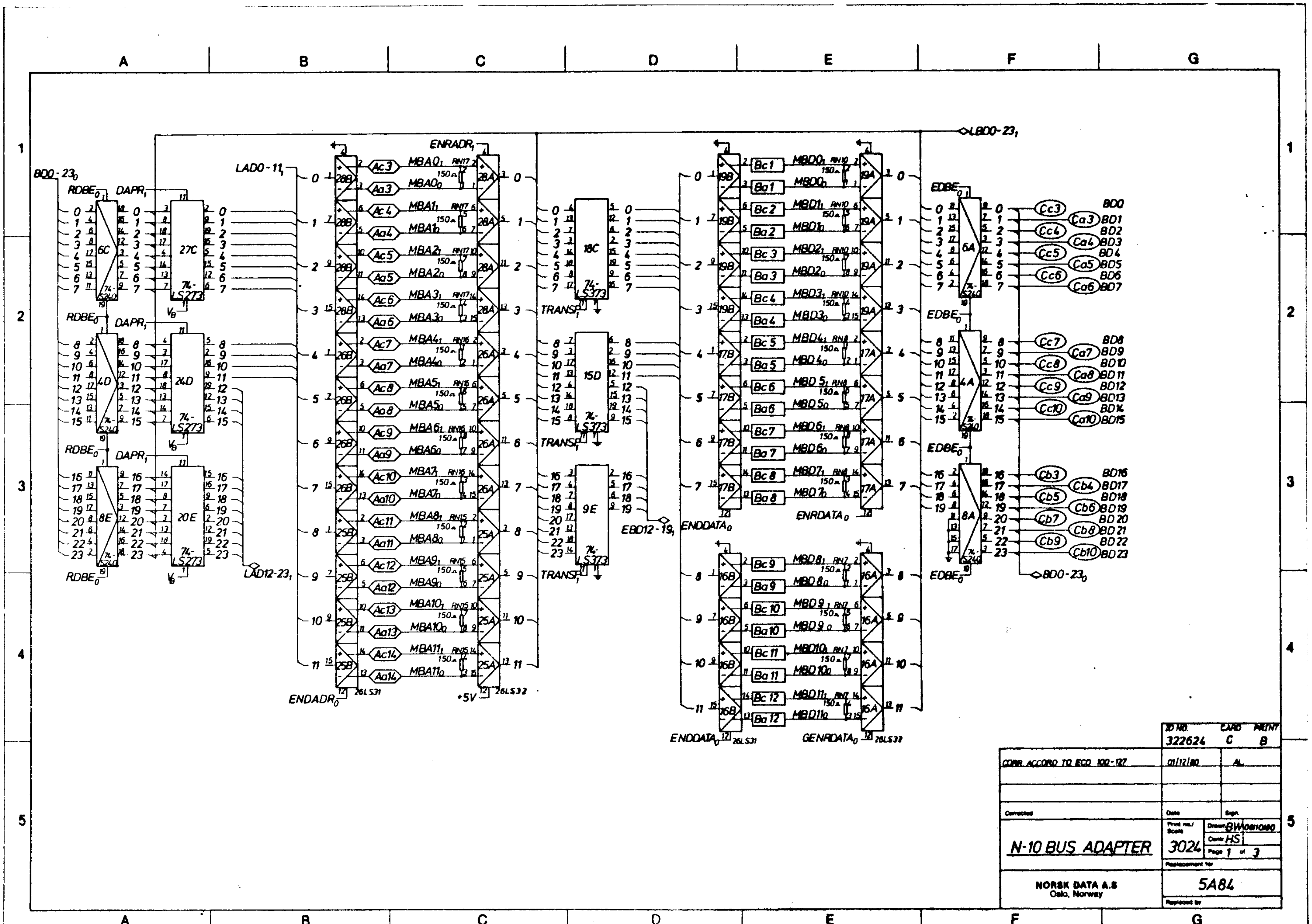
Replacement for: 5A82

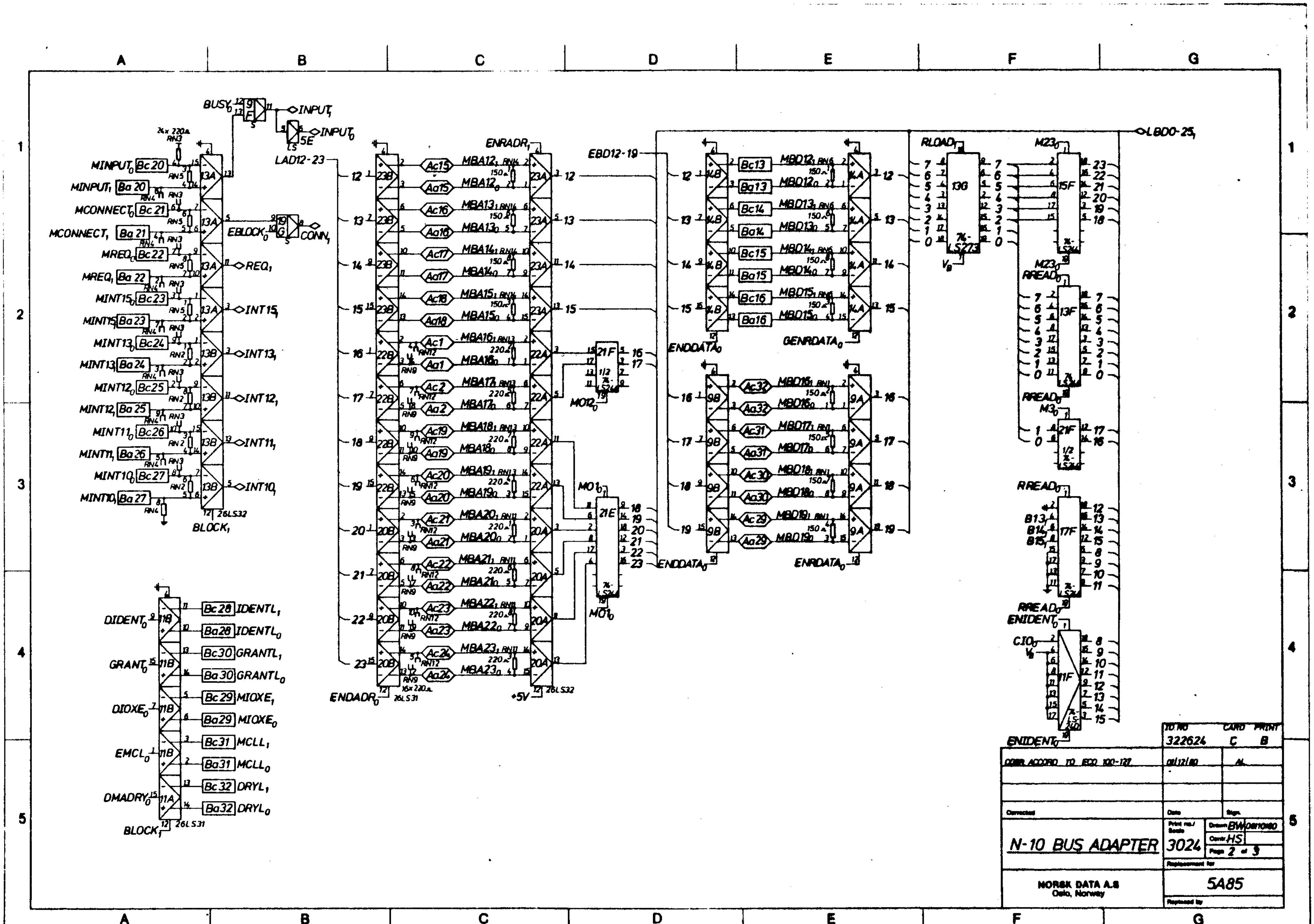
Replaced by:

NORSK DATA A.S
Oslo, Norway

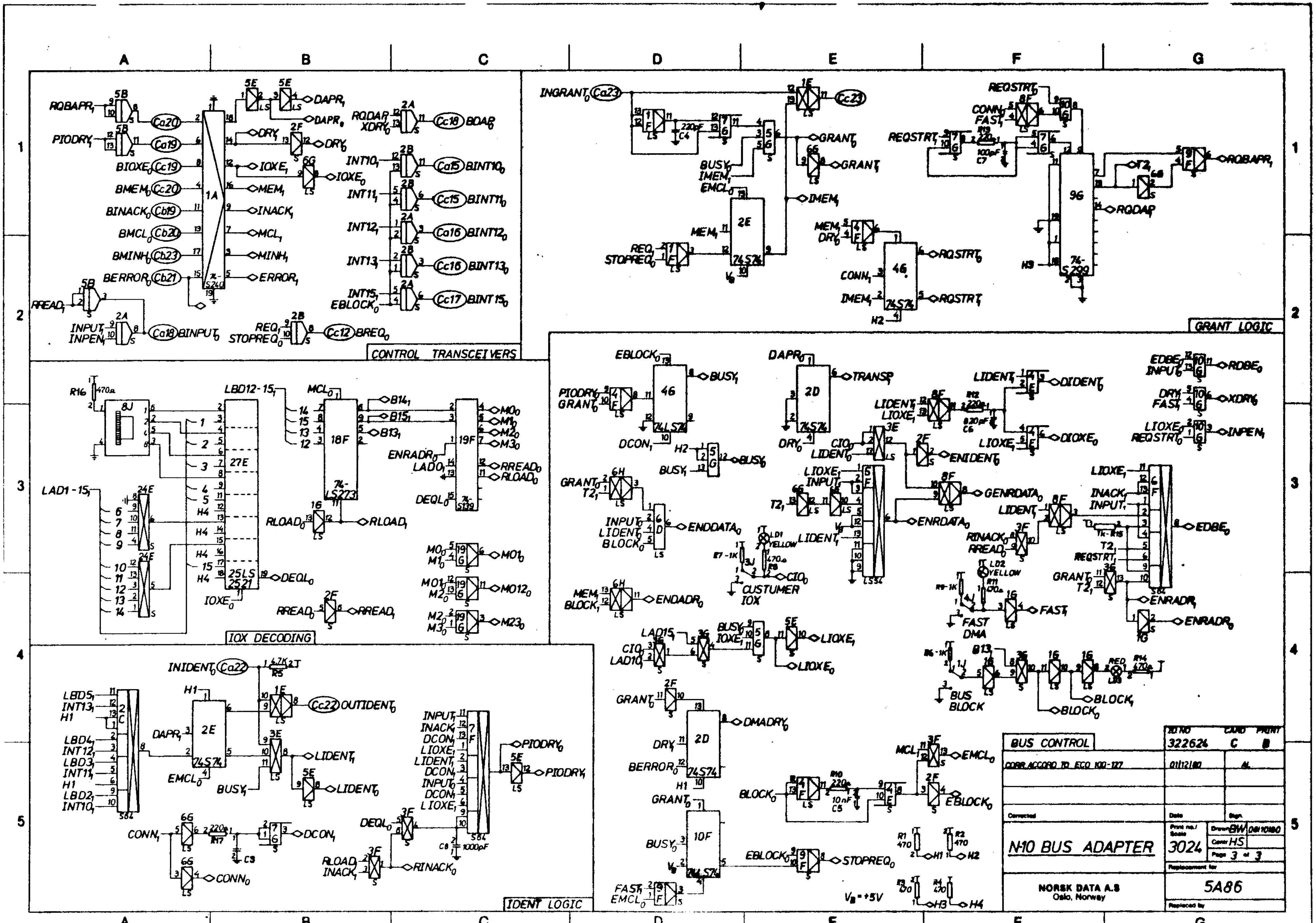


READ PROM DATA
BYTE CLOCK
STATE COUNTER AND DECODER
PRIORITY DAISY CHAIN
READ STATUS REG.
DEVICE NUMBER COMPARE
512x8 PROM
PROM ADDRESS
TESTSTOP OF HDLC RECEIVER CLOCK
CORR. ACCORD TO ECO 100-149,197 20,01,82 BW
CORR. ACC TO ENG SPEC 80-038 11/12/80 BW
MEGALINK INTERFACE
Print no 3023
Page 6of 6
NORSK DATA A.S
Oslo, Norway
5A83

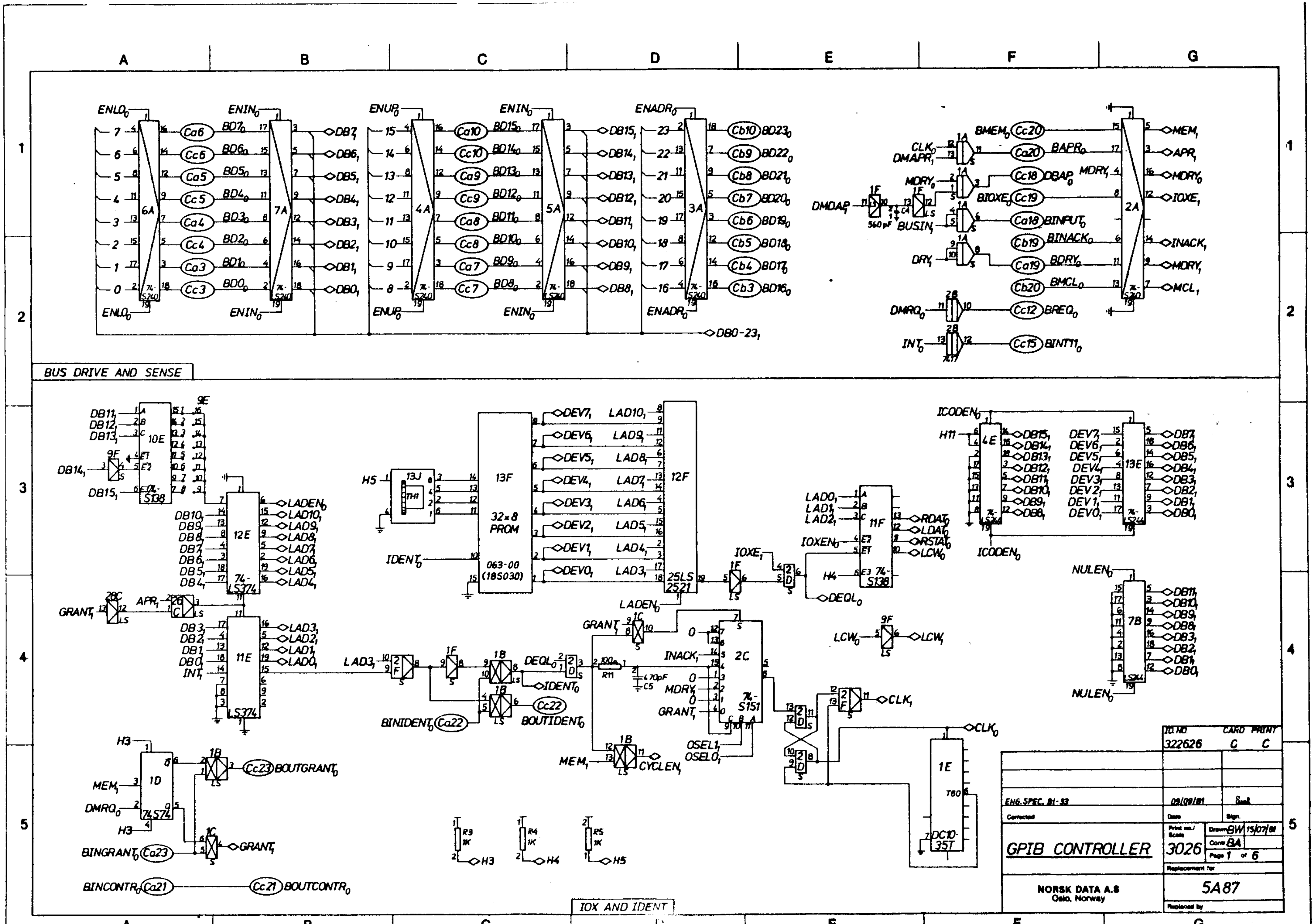

N-10 BUS ADAPTER
NORSK DATA A.S
Oslo, Norway
ID NO. 322624
CARD C
PRINT B
CORR. ACCORD TO ECO 100-127
01/12/80
AL
Drawn BW 080180
Contr. HS
3024
Page 1 of 3
5A84



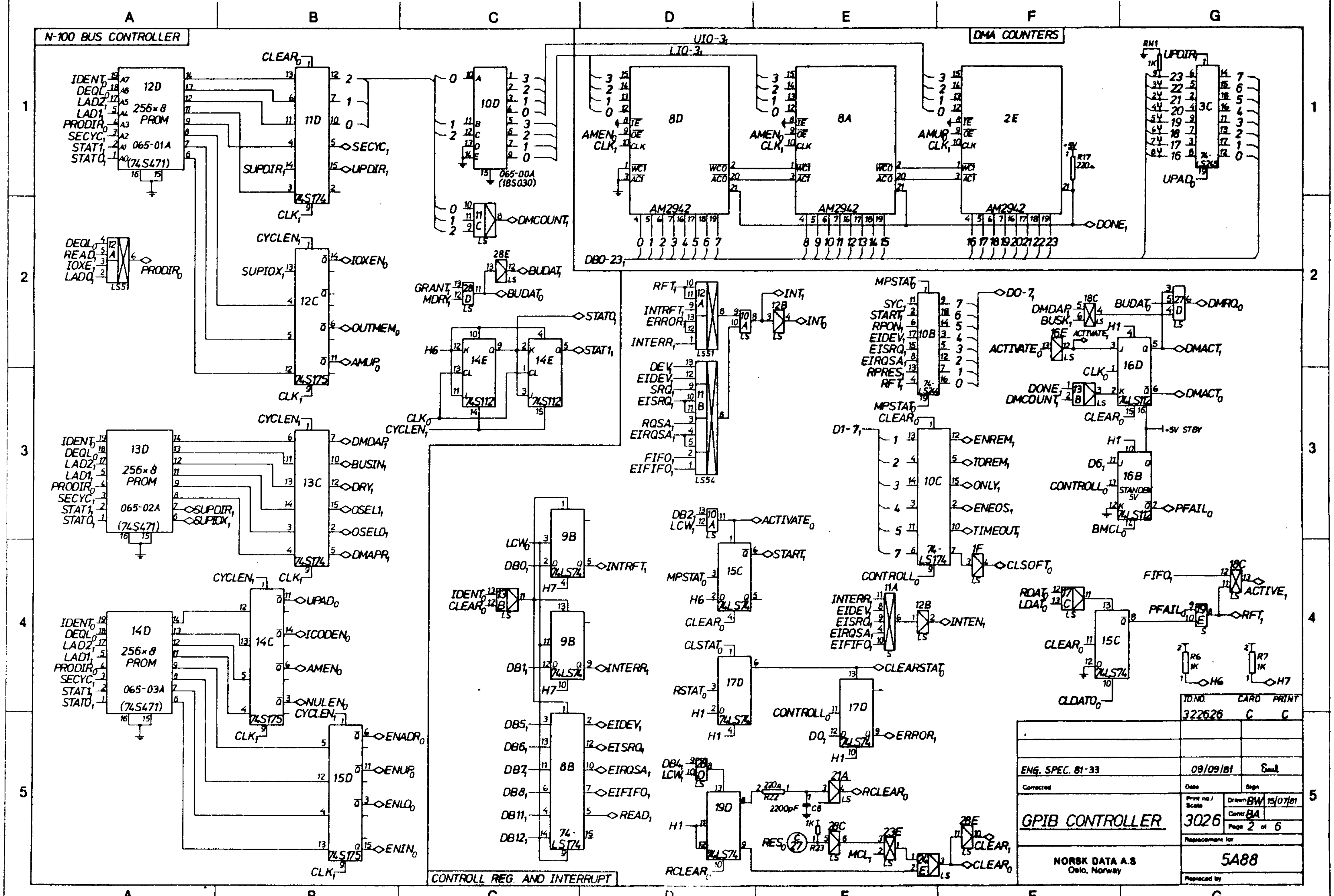
TO NO 322624
CARD C
PRINT B
CORR. ACCORD. TO ECO 100-127
N-10 BUS ADAPTER
3024
Drawn BW
Page 2 of 3
5A85
NORSK DATA A.S
Oslo, Norway



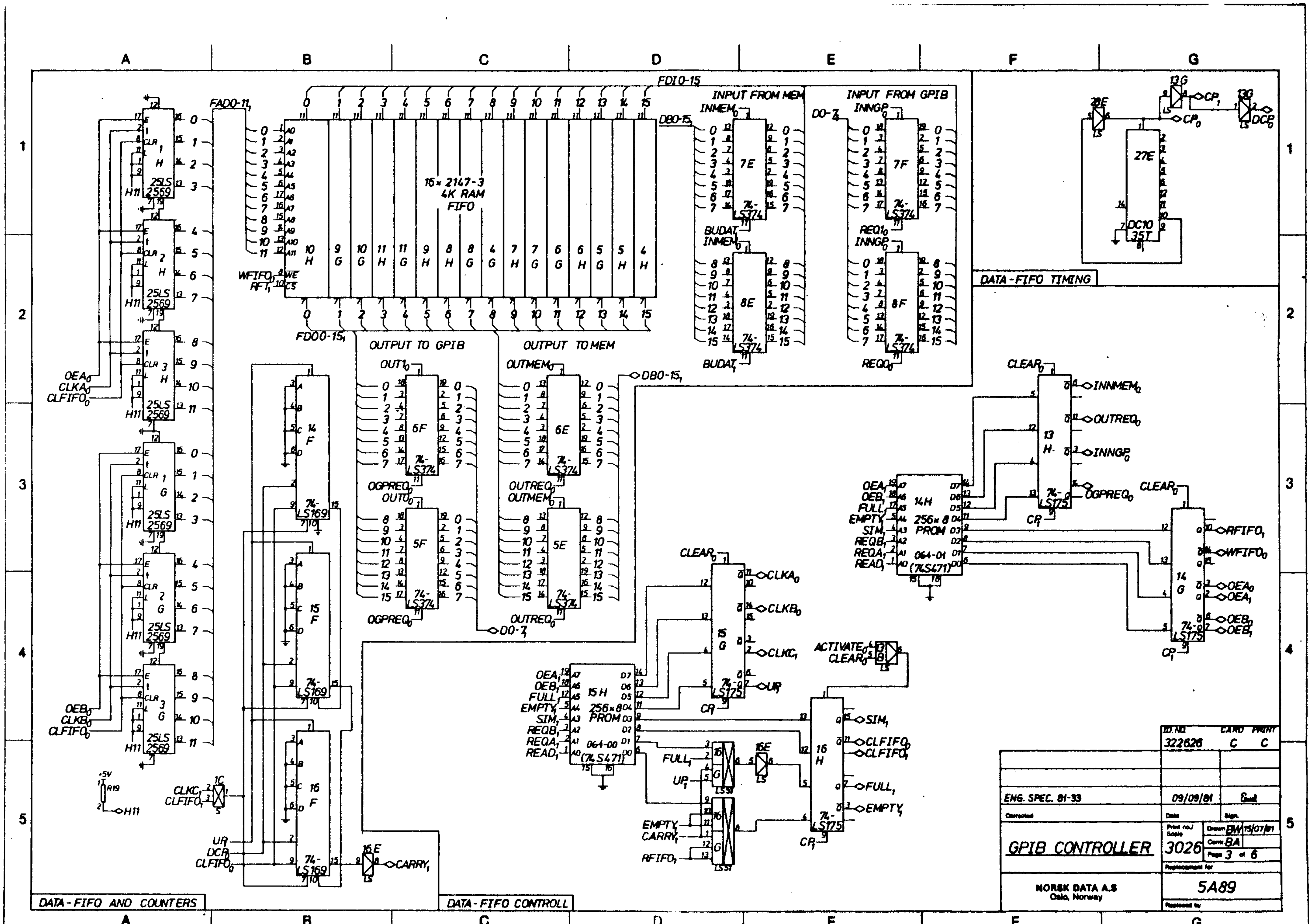
CONTROL TRANSCEIVERS
IOX DECODING
IDENT LOGIC
GRANT LOGIC
BUS CONTROL
CORR. ACCORD TO ECO 100-127
01/12/80
N10 BUS ADAPTER
3024
Page 3 of 3
5A86
NORSK DATA A.S
Oslo, Norway
322626

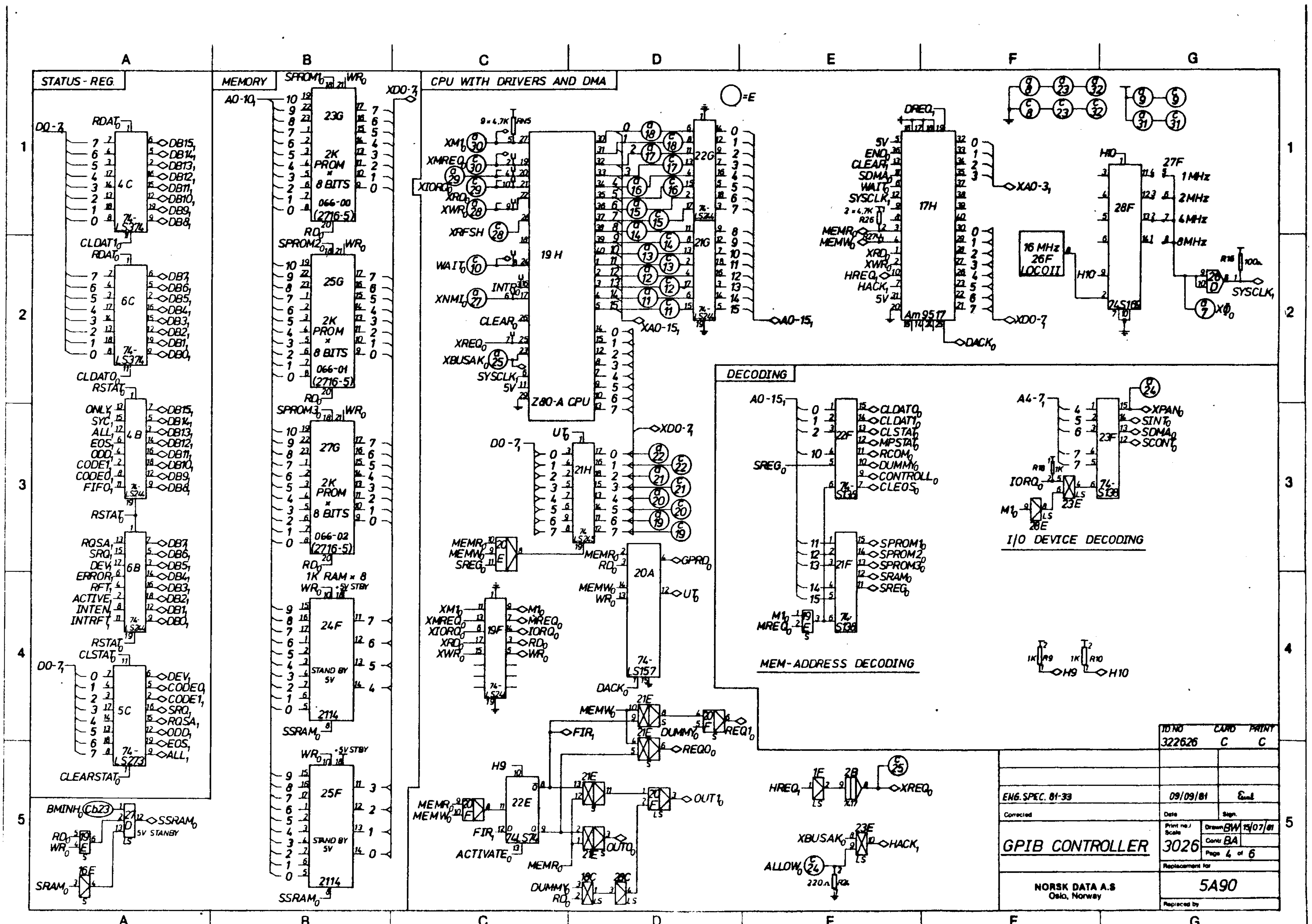


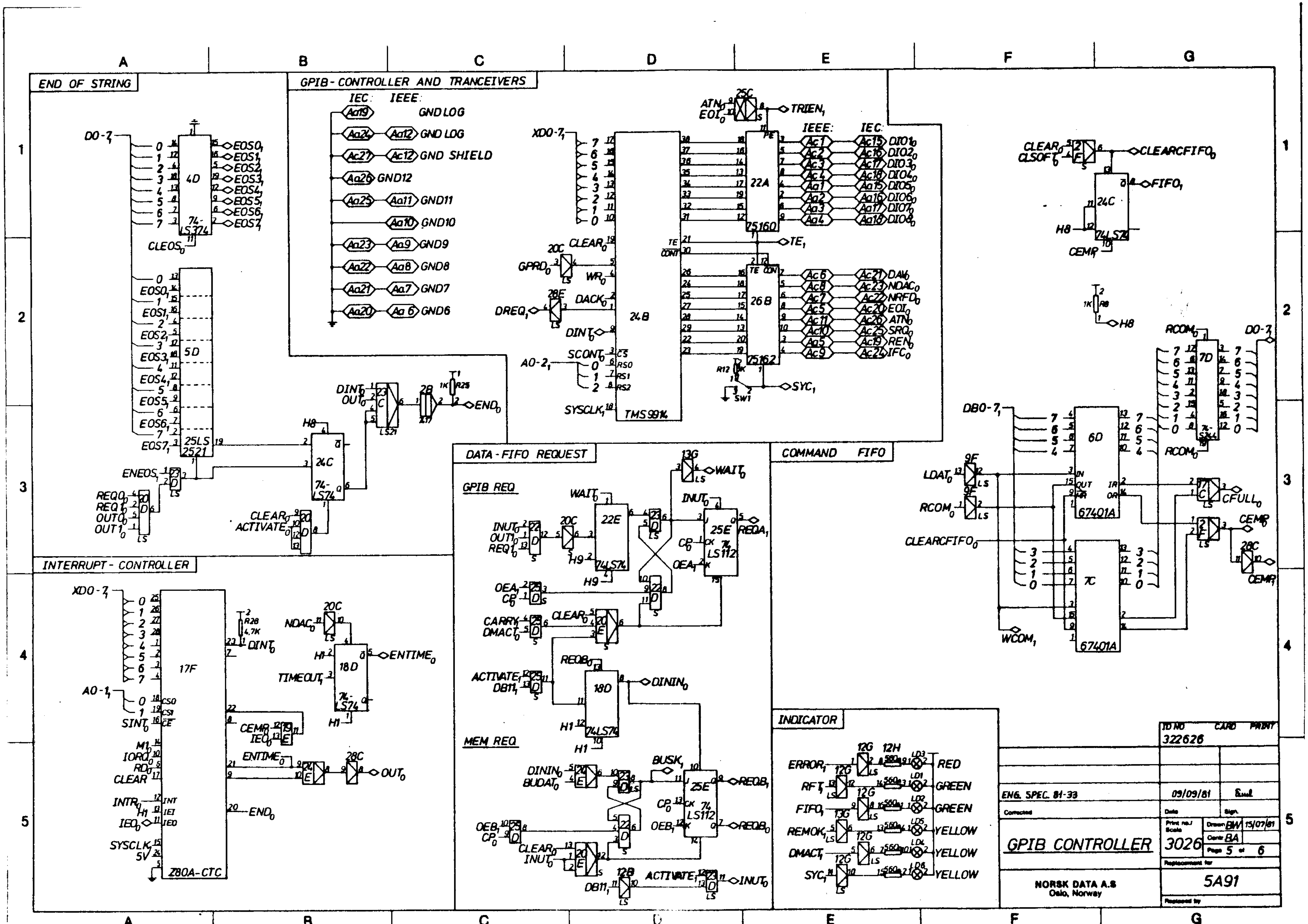
BUS DRIVE AND SENSE
IOX AND IDENT
ID. NO. 322626
CARD C
PRINT C
ENG. SPEC. 81-33
Corrected
Date 09/09/81
Sign.
Print no./Scale 3026
Drawn BW 15/07/81
Contr. BA
Page 1 of 6
GPIB CONTROLLER
Replacement for
5A87
Replaced by
NORSK DATA A.S
Oslo, Norway



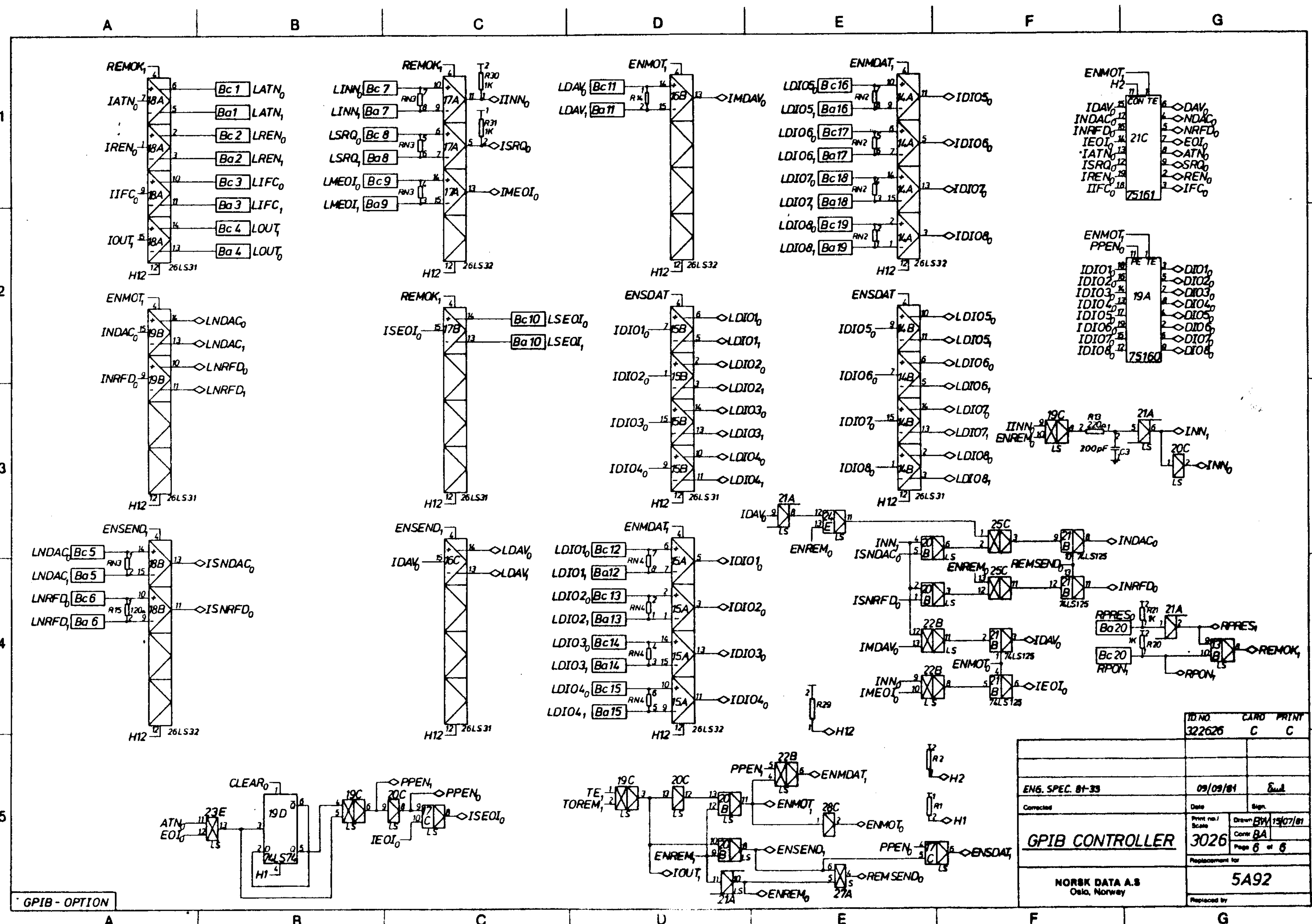
N-100 BUS CONTROLLER
DMA COUNTERS
CONTROLL REG. AND INTERRUPT
ID NO. 322626
CARD C
PRINT C
ENG. SPEC. 81-33
09/09/81
GPIB CONTROLLER
3026
Drawn BW 15/07/81
Contr. BA
Page 2 of 6
Replacement for 5A88
NORSK DATA A.S
Oslo, Norway

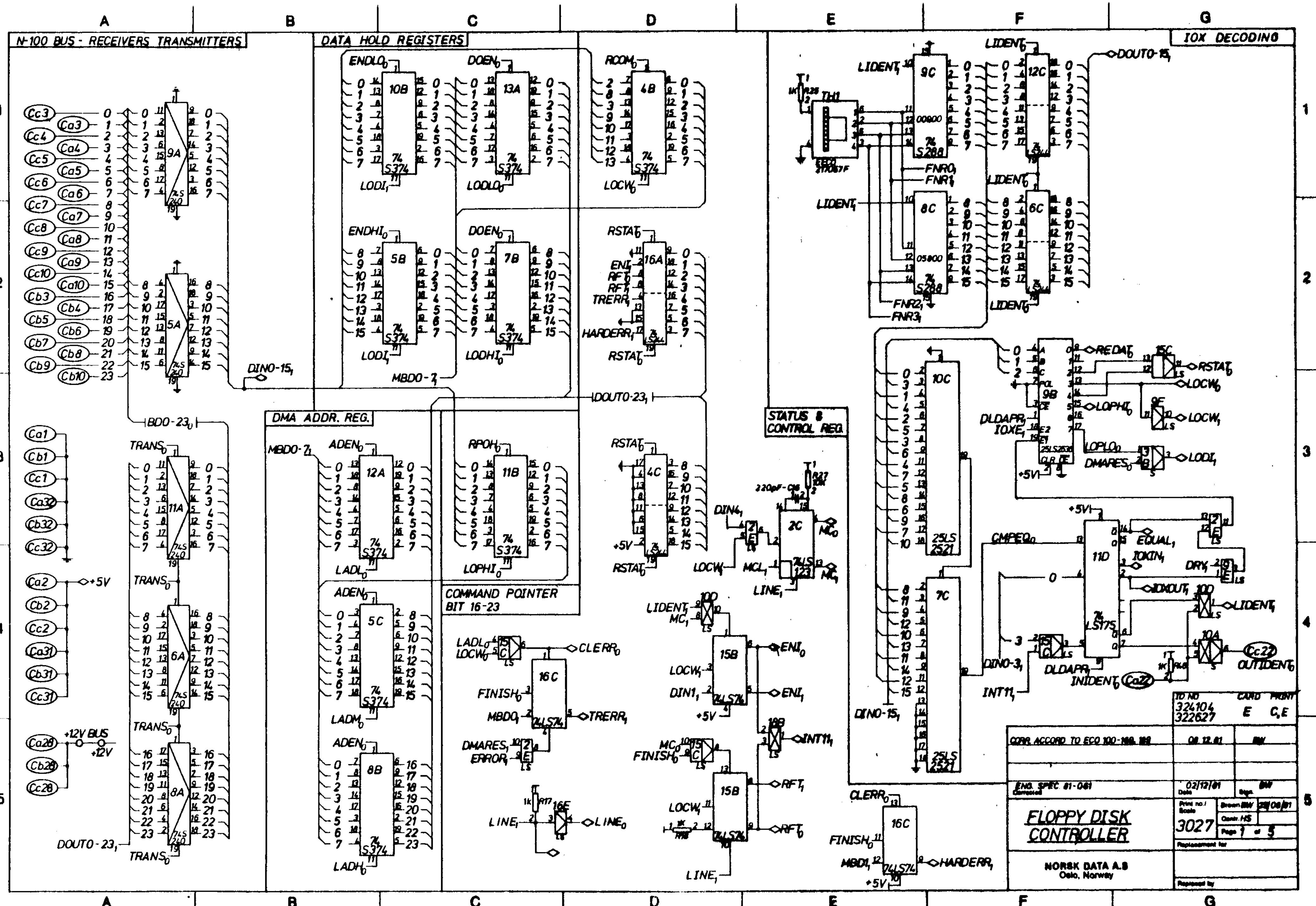

DATA-FIFO AND COUNTERS
DATA-FIFO CONTROLL
DATA-FIFO TIMING
INPUT FROM MEM
INPUT FROM GPIB
OUTPUT TO GPIB
OUTPUT TO MEM
16 x 2147-3
4K RAM
FIFO
FDI0-15
FDO0-15
FAD0-11
DB0-15
256x8 PROM
064-00 (74S471)
064-01 (74S471)
ID.NO. 322626
CARD C
PRINT C
ENG. SPEC. 81-33
09/09/81
GPIB CONTROLLER
3026
Drawn BW 15/07/81
Page 3 of 6
5A89
NORSK DATA A.S
Oslo, Norway

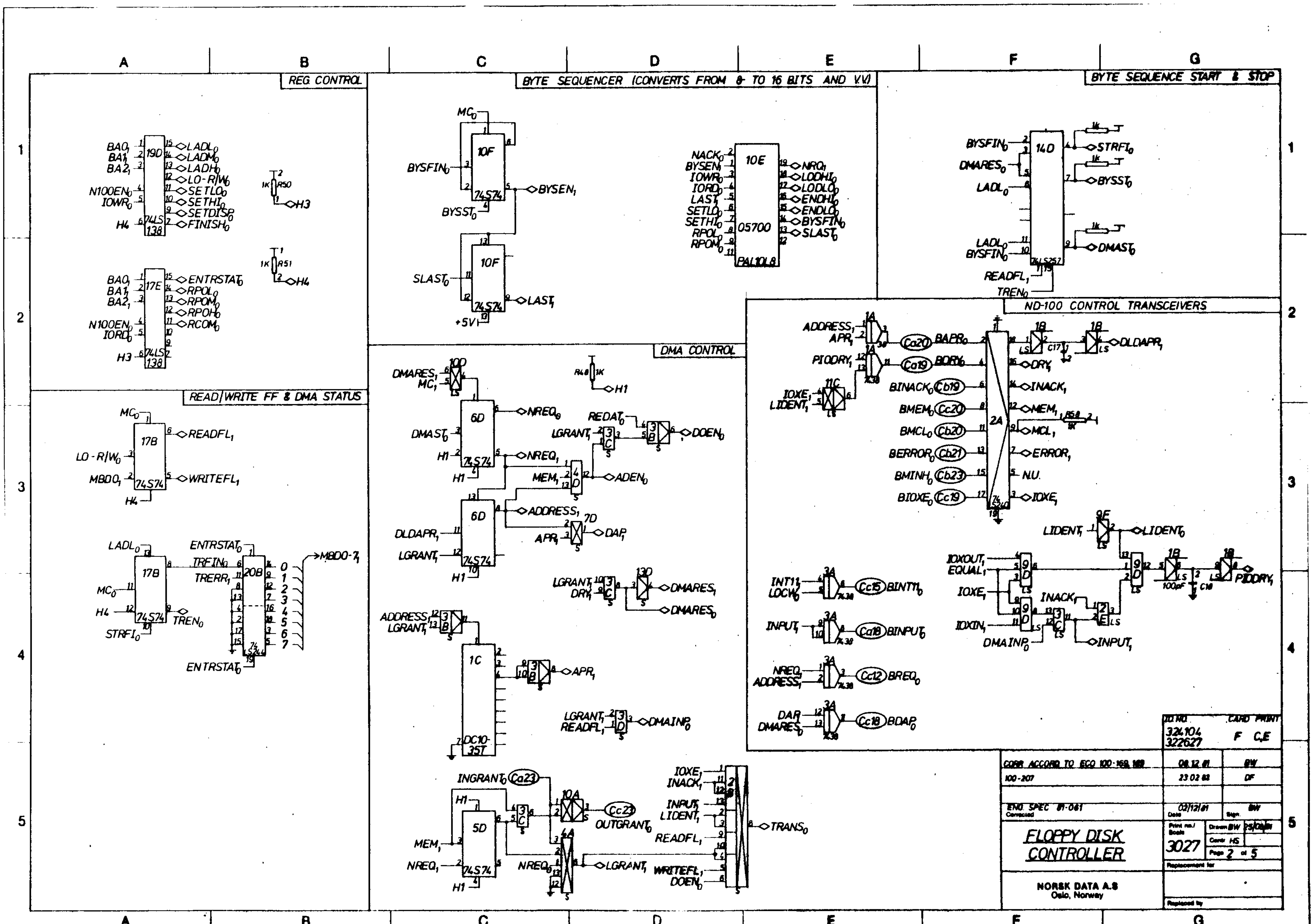

STATUS - REG.
MEMORY
CPU WITH DRIVERS AND DMA
DECODING
MEM-ADDRESS DECODING
I/O DEVICE DECODING
Z80-A CPU
Am 9517
ENG. SPEC. 81-33
09/09/81
GPIB CONTROLLER
3026
Page 4 of 6
NORSK DATA A.S
Oslo, Norway
5A90
ID.NO
322626
CARD
C
PRINT
C

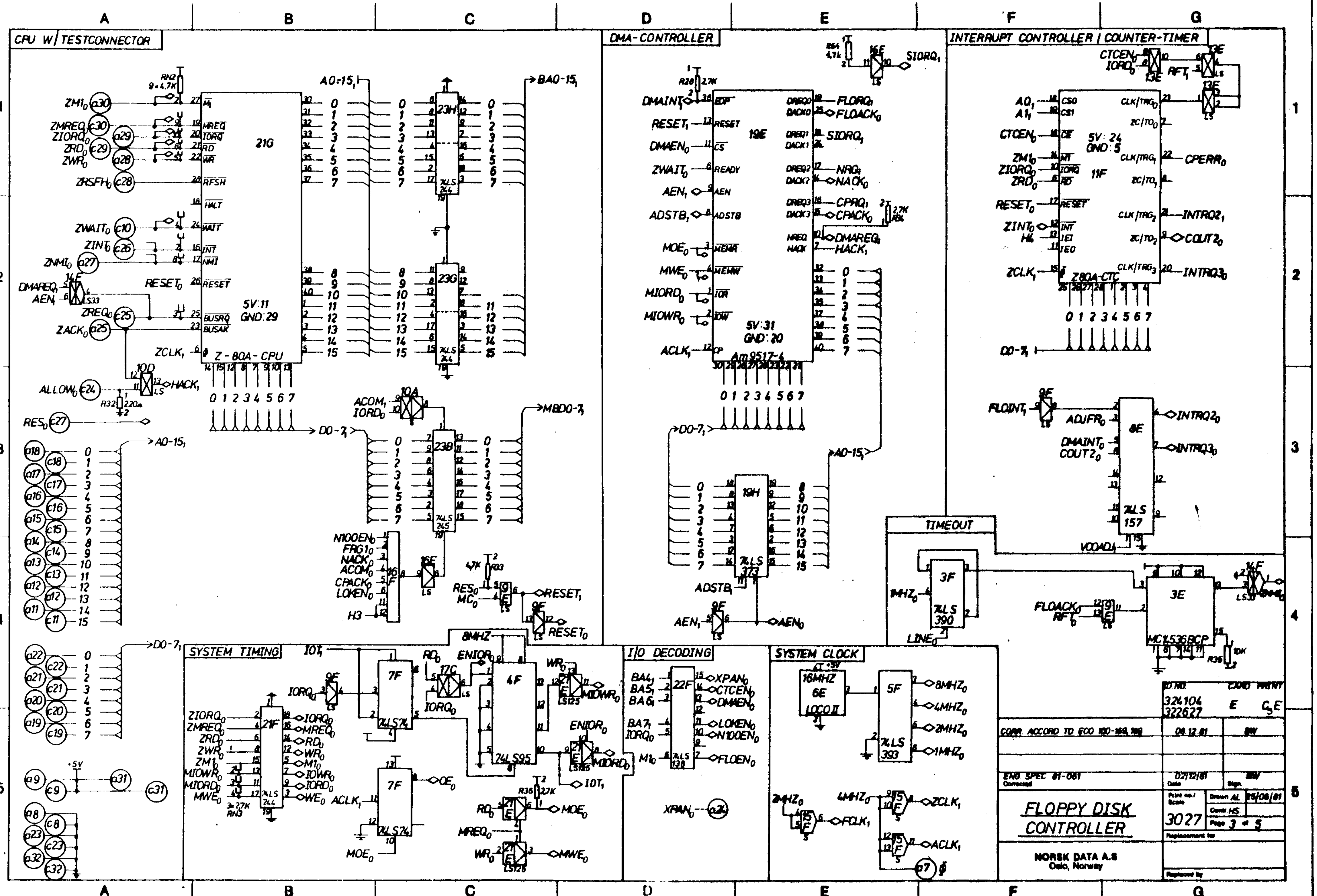


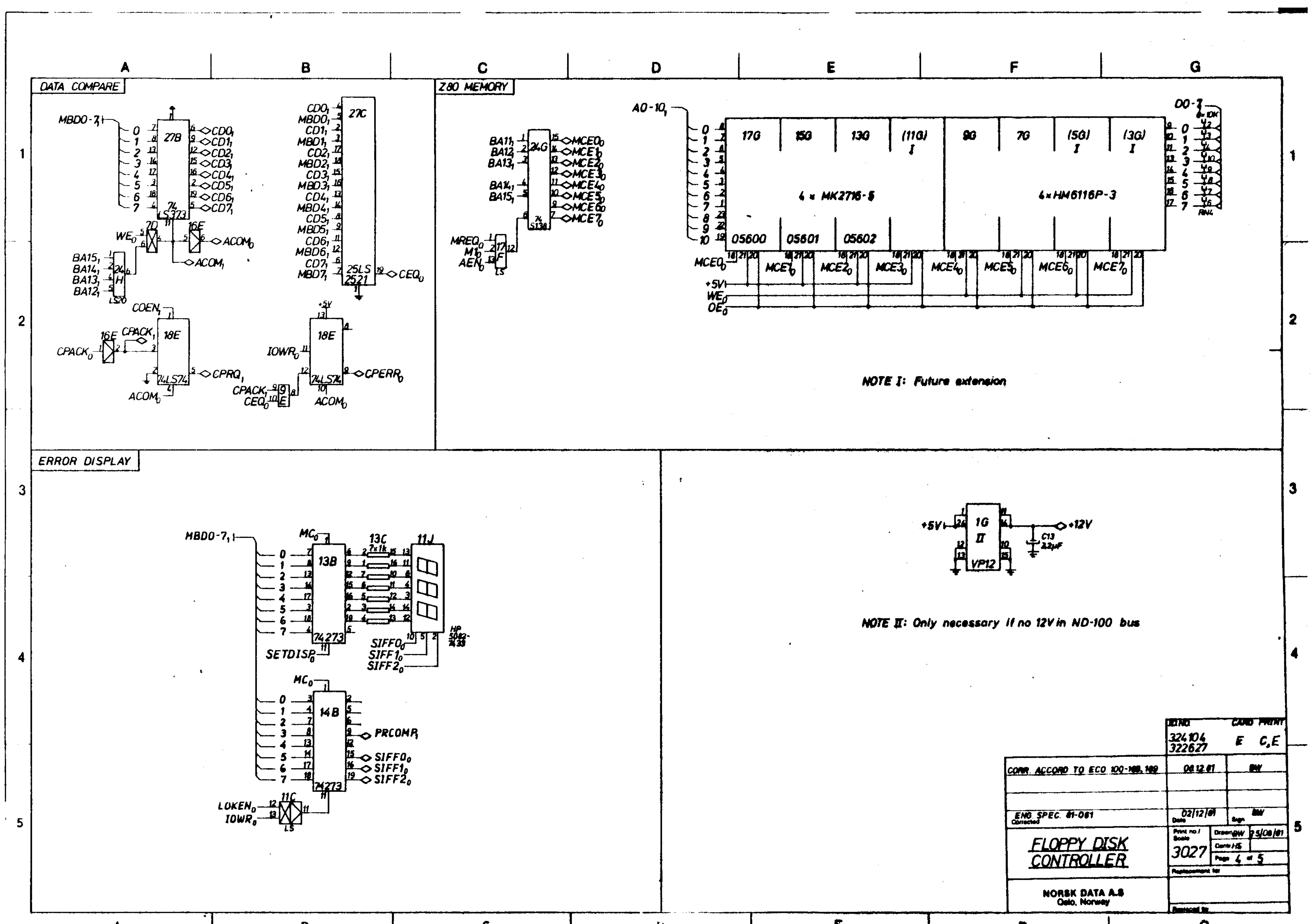
END OF STRING
GPIB-CONTROLLER AND TRANCEIVERS
INTERRUPT-CONTROLLER
DATA-FIFO REQUEST
GPIB REQ
MEM REQ
COMMAND FIFO
INDICATOR
TMS 9914
Z80A-CTC
67401A
ENG. SPEC. 81-33
GPIB CONTROLLER
NORSK DATA A.S
Oslo, Norway
ID NO
322626
09/09/81
3026
Page 5 of 6
5A91


GPIB CONTROLLER
NORSK DATA A.S
Oslo, Norway
ENG. SPEC. 81-33
ID NO. 322626
CARD C
PRINT C
09/09/81
3026
BA
Page 6 of 6
5A92
GPIB - OPTION

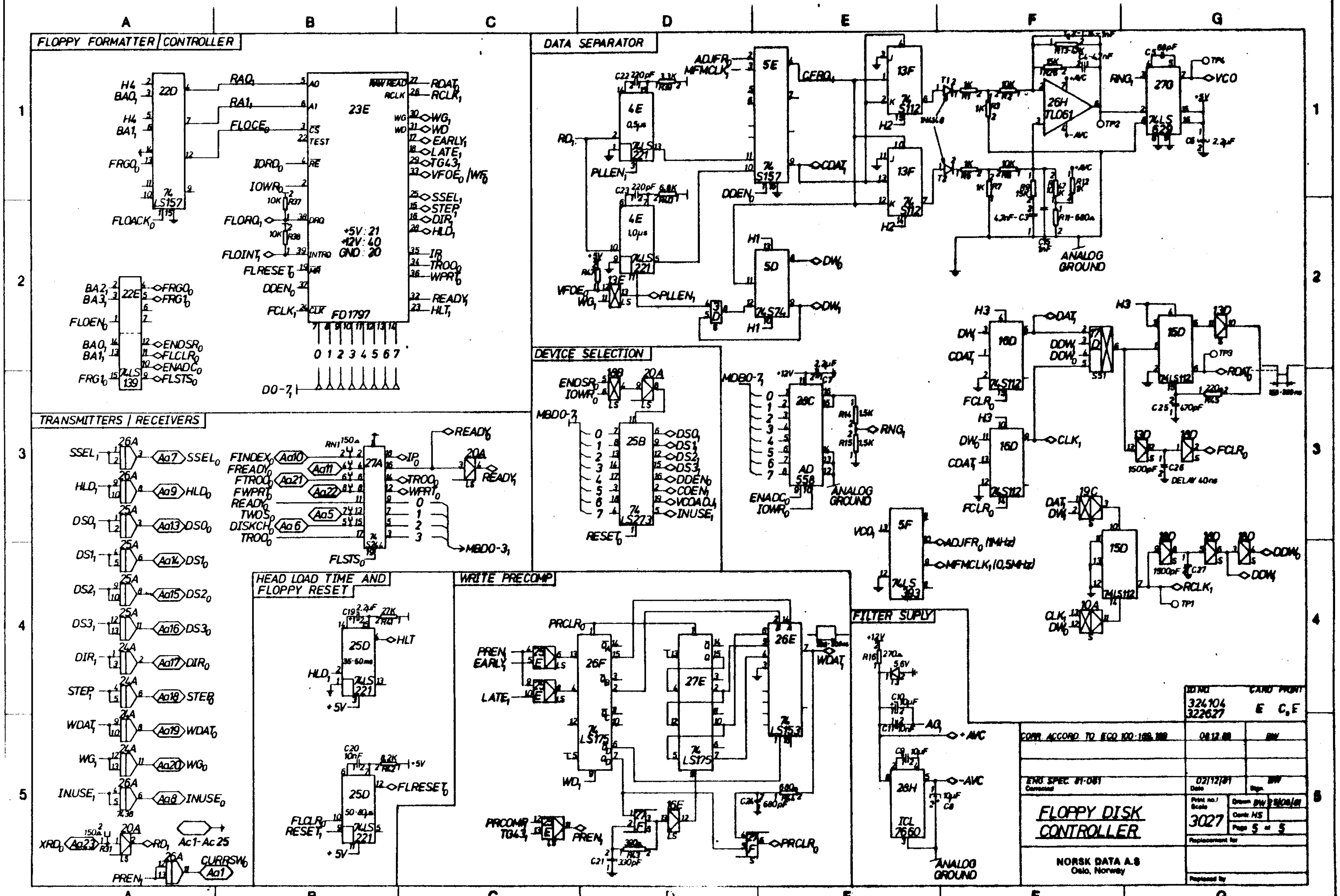

N-100 BUS - RECEIVERS TRANSMITTERS
DATA HOLD REGISTERS
DMA ADDR. REG.
COMMAND POINTER BIT 16-23
STATUS & CONTROL REG.
IOX DECODING
CORR. ACCORD TO ECO 100-169, 188
08.12.81
ENG. SPEC 81-061
02/12/81
FLOPPY DISK CONTROLLER
NORSK DATA A.S
Oslo, Norway
ID NO
324104
322627
CARD E
PRINT C,E
3027
Page 1 of 5

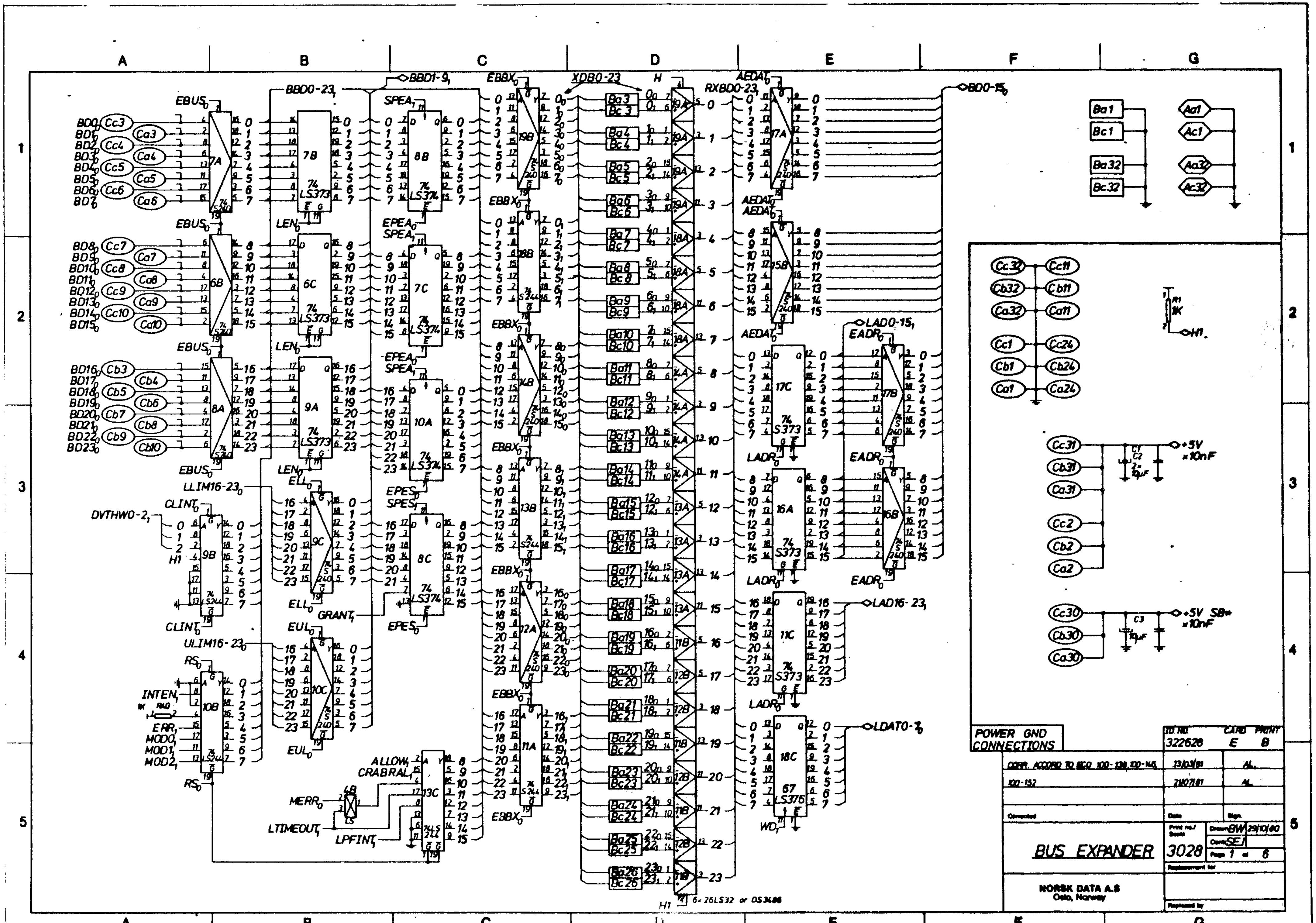

REG CONTROL
BYTE SEQUENCER (CONVERTS FROM 8- TO 16 BITS AND V.V)
BYTE SEQUENCE START & STOP
ND-100 CONTROL TRANSCEIVERS
READ/WRITE FF & DMA STATUS
DMA CONTROL
ID NO. 324104 322627
CARD PRINT F C,E
CORR. ACCORD TO ECO 100-168, 169 08.12.81 BW
100-207 23 02 83 DF
ENG. SPEC 81-061 03/12/81 BW
FLOPPY DISK CONTROLLER
NORSK DATA A.S
Oslo, Norway
3027
Drawn BW
Contr HS
Page 2 of 5

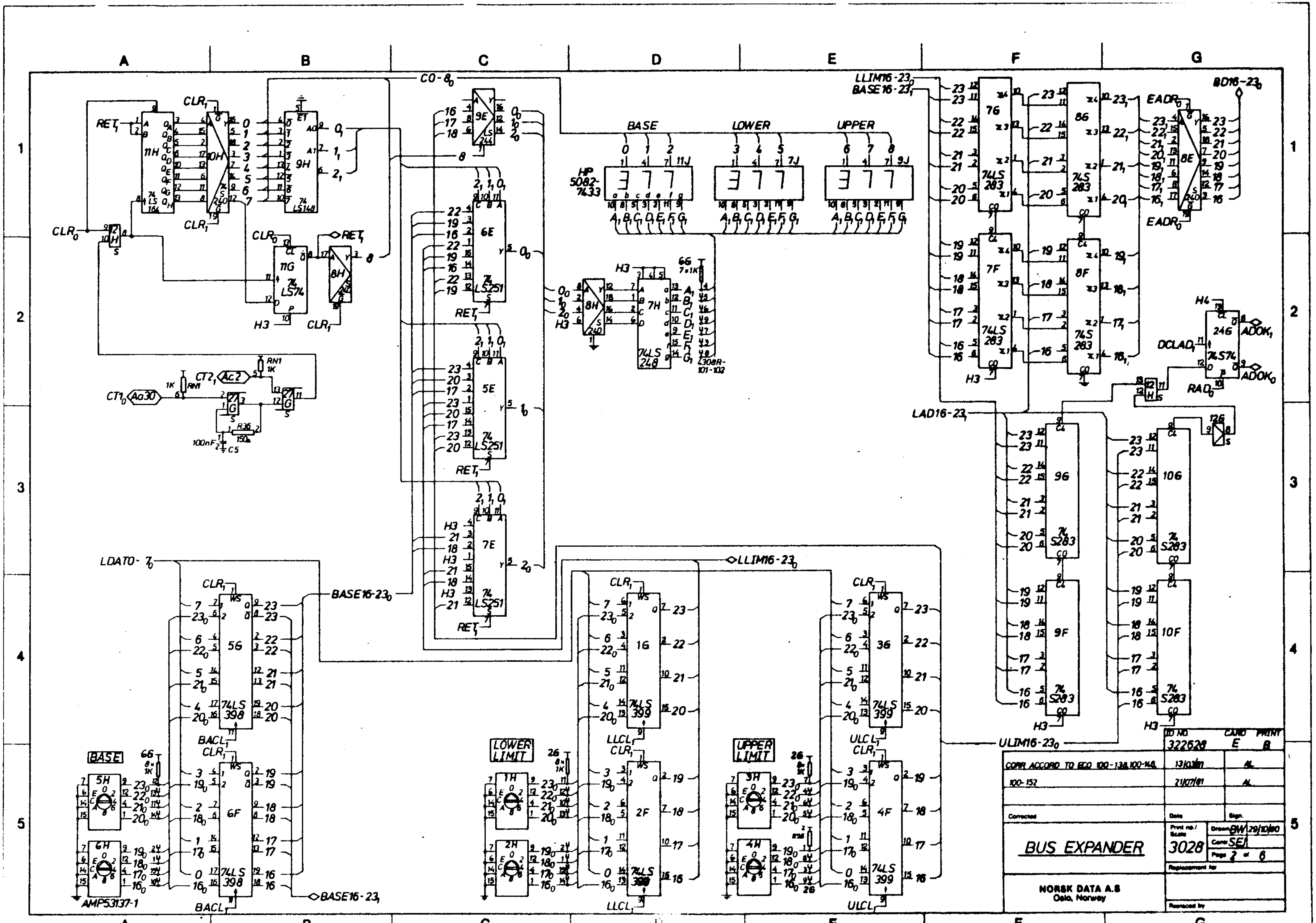

CPU W/ TESTCONNECTOR
DMA-CONTROLLER
INTERRUPT CONTROLLER / COUNTER-TIMER
TIMEOUT
SYSTEM TIMING
I/O DECODING
SYSTEM CLOCK
Z-80A-CPU
Am9517-4
Z80A-CTC
MC1536BCP
CORR. ACCORD TO ECO 100-168,169
ENG. SPEC 81-081
FLOPPY DISK
CONTROLLER
NORSK DATA A.S
Oslo, Norway
324104
322627
3027
Page 3 of 5

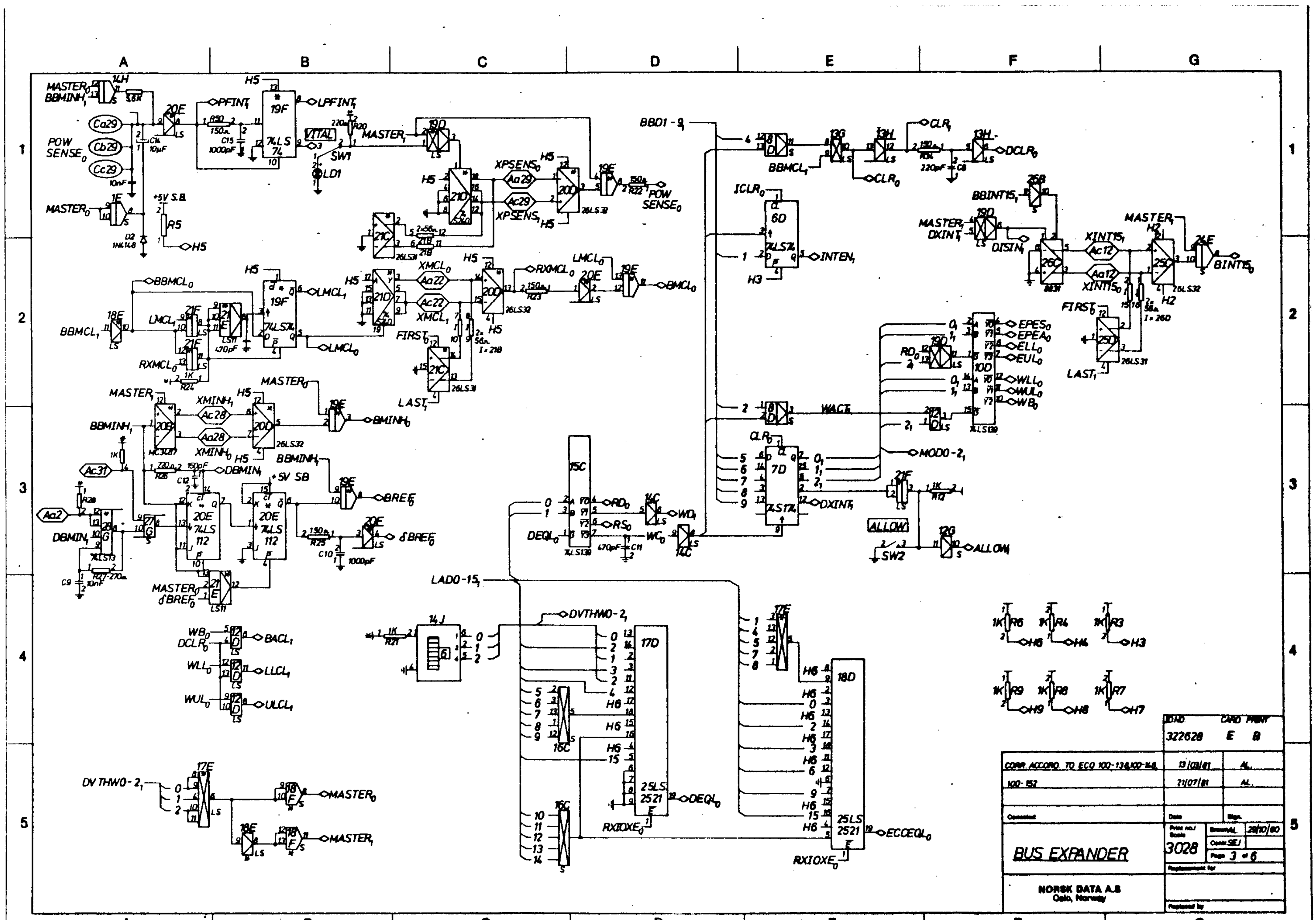


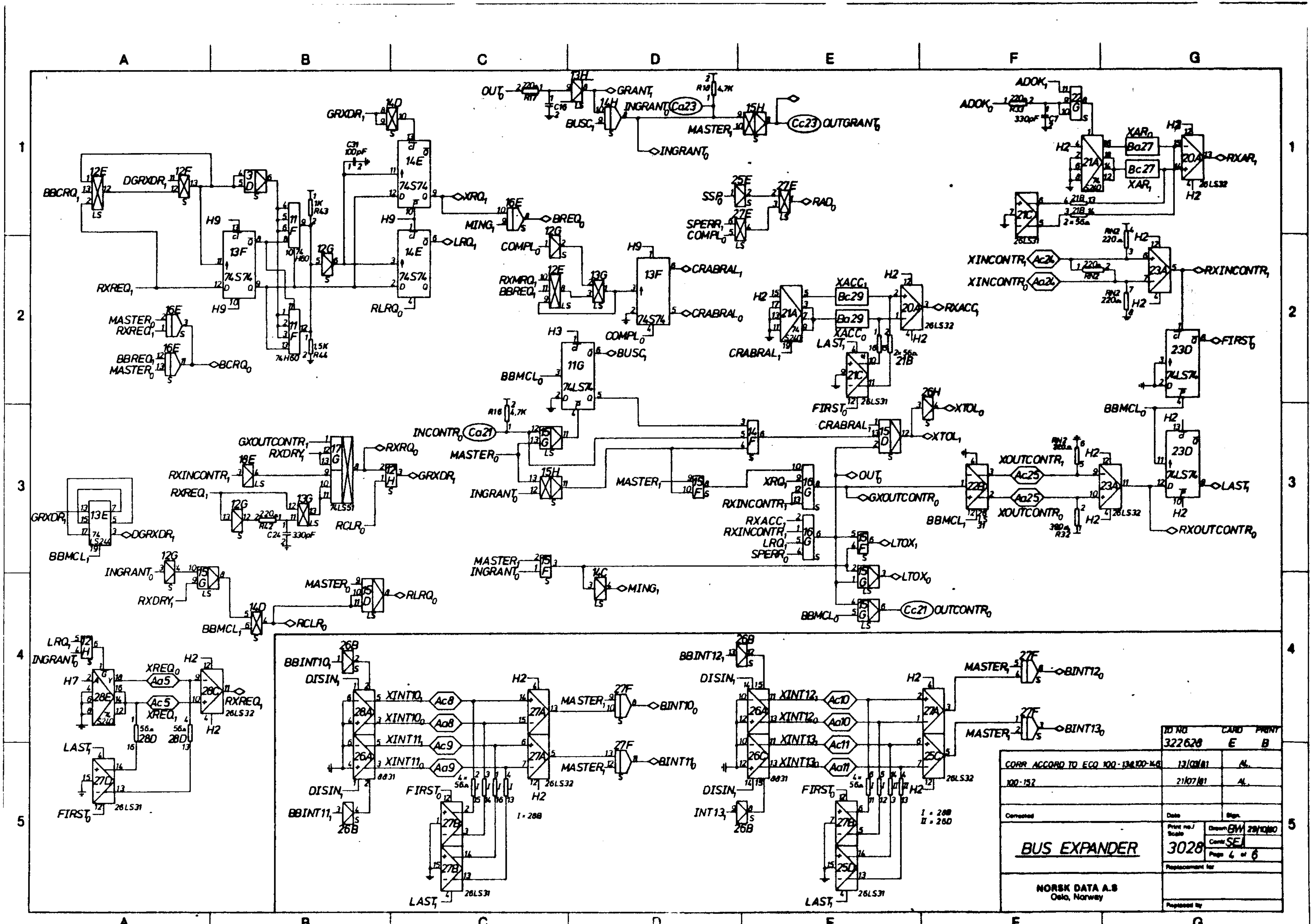
DATA COMPARE
Z80 MEMORY
ERROR DISPLAY
4 x MK2716-5
4 x HM6116P-3
NOTE I: Future extension
NOTE II: Only necessary if no 12V in ND-100 bus
CORR. ACCORD TO ECO 100-188, 189
ENG. SPEC. 81-061
FLOPPY DISK CONTROLLER
NORSK DATA A.S
Oslo, Norway
324104
322627
3027
Page 4 of 5


FLOPPY FORMATTER/CONTROLLER
DATA SEPARATOR
DEVICE SELECTION
TRANSMITTERS / RECEIVERS
HEAD LOAD TIME AND FLOPPY RESET
WRITE PRECOMP
FILTER SUPLY
FD1797
ANALOG GROUND
CORR. ACCORD. TO ECO 100-188.189
FLOPPY DISK CONTROLLER
NORSK DATA A.S
Oslo, Norway
3027
324104
322627

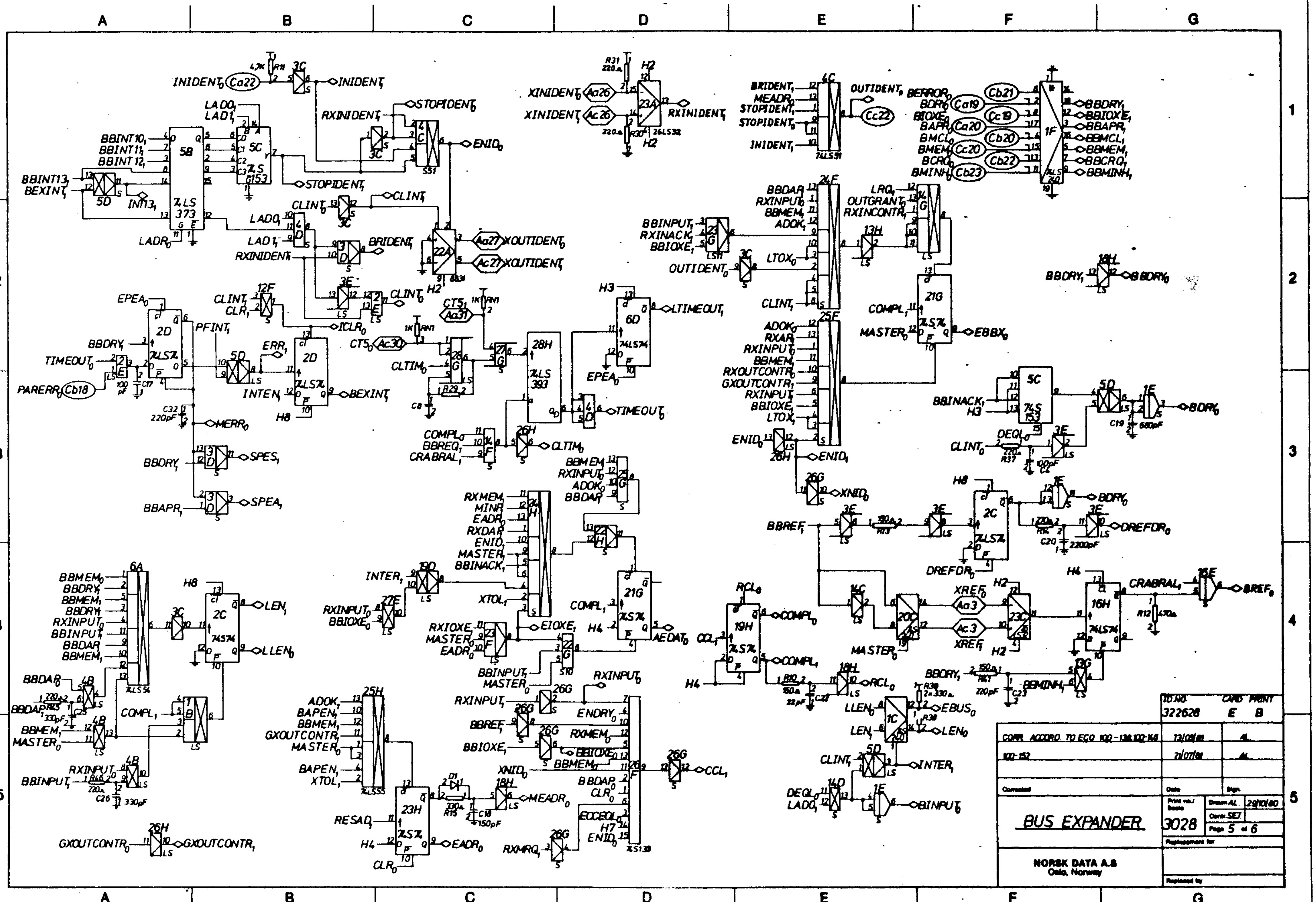

POWER GND CONNECTIONS
ID NO. 322628
CARD E
PRINT B
CORR. ACCORD TO ECO 100-138, 100-145, 100-152
13/03/81 AL.
21/07/81 AL.
BUS EXPANDER
3028
Drawn BW 29/10/80
Page 1 of 6
NORSK DATA A.S
Oslo, Norway
6x 26LS32 or DS3486


BUS EXPANDER
NORSK DATA A.S
Oslo, Norway
ID NO. 322628
CARD E
PRINT B
CORR ACCORD TO ECO 100-138, 100-146, 13/03/81 AL
100-152 21/07/81 AL
Corrected
Date
Sign.
Print no./Scale 3028
Drawn BW 29/10/80
Cont. SEJ
Page 2 of 6
Replacement for
Replaced by
BASE
LOWER LIMIT
UPPER LIMIT
AMP53137-1
HP 5082-7433
LLIM16-23
BASE16-23
LAD16-23
ULIM16-23
LDAT0-7
BD16-23
EADR
CO-8
ADOK
DCLAD
RAD
CLR
RET

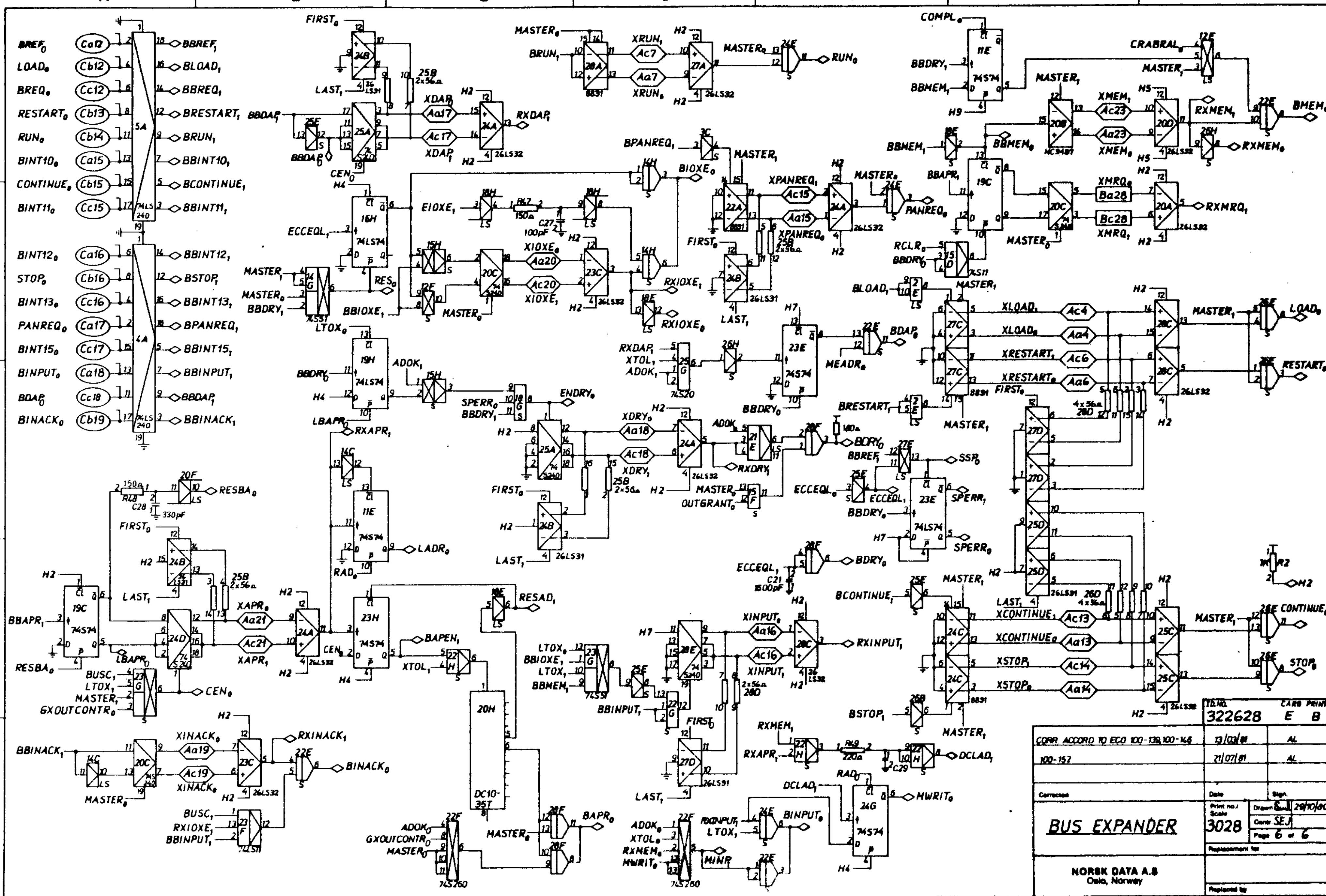

ID NO.
322628
CARD
E
PRINT
B
CORR. ACCORD. TO ECO 100-13 & 100-14
13/03/81
AL.
100-152
21/07/81
AL.
BUS EXPANDER
3028
Page 3 of 6
29/10/80
NORSK DATA A.S
Oslo, Norway



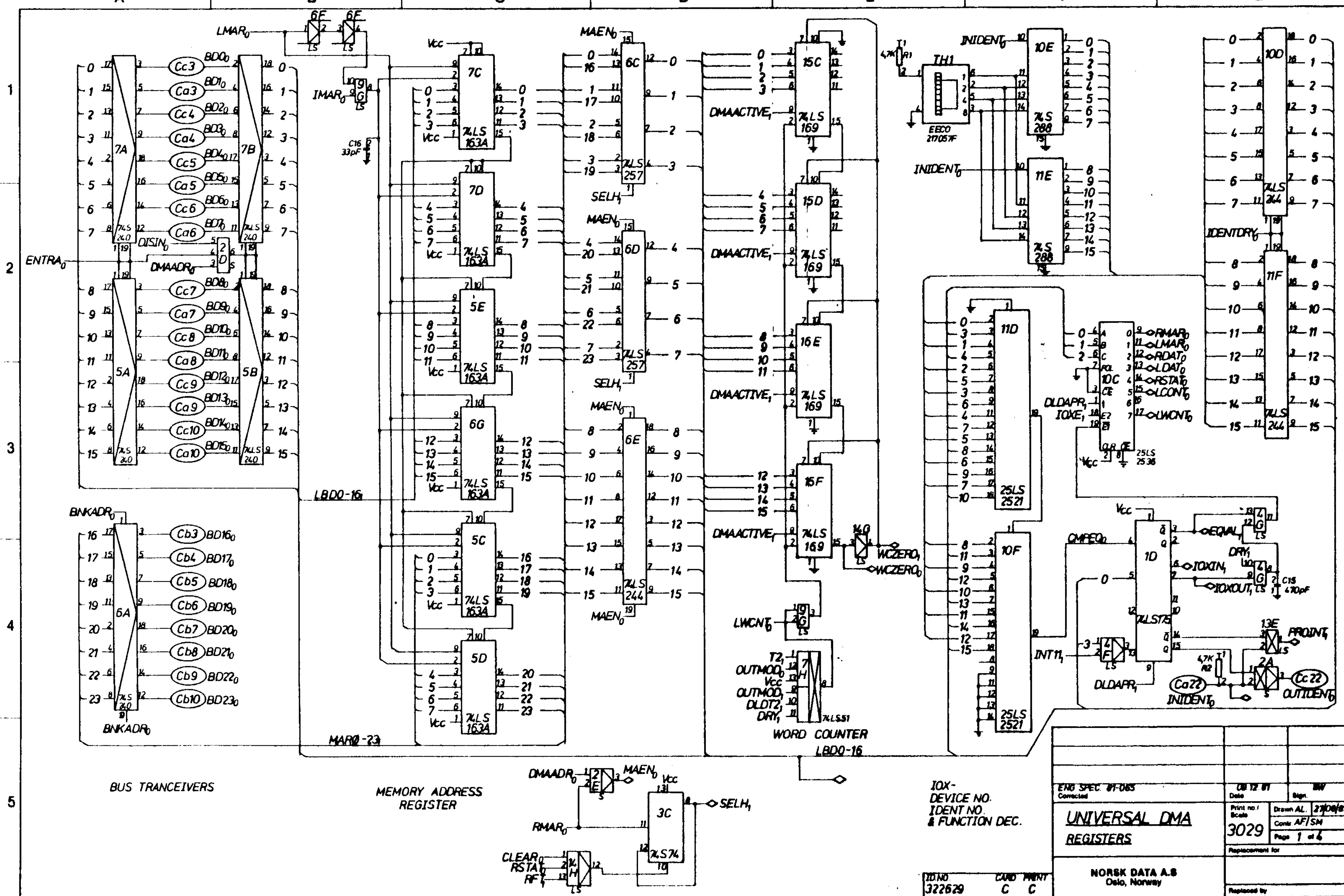
BUS EXPANDER
NORSK DATA A.S
Oslo, Norway
3028
322628



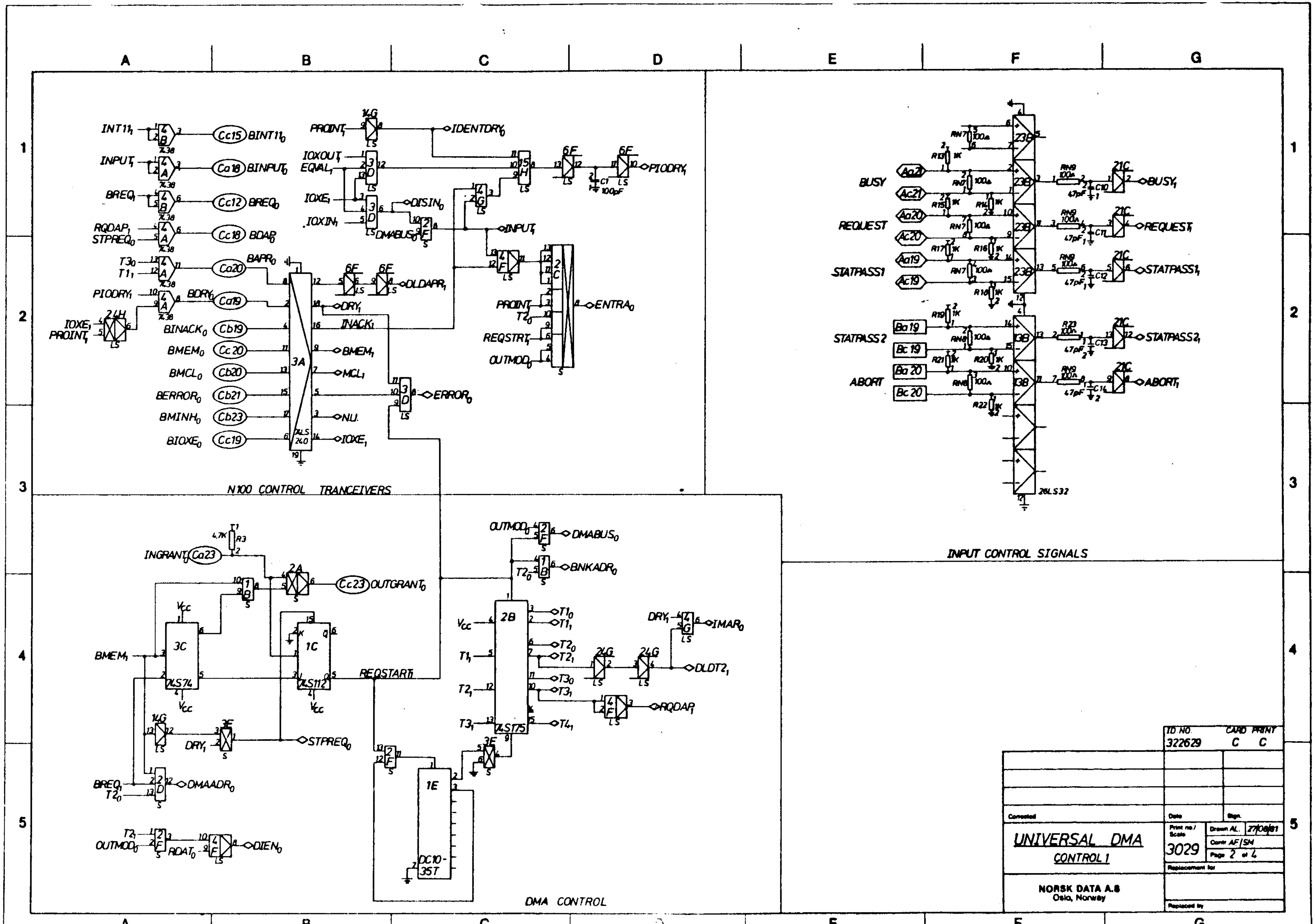
ID NO. 322628
CARD E
PRINT B
CORR. ACCORD. TO ECO 100-138,100-149 13/03/81 AL.
100-152 21/07/81 AL.
Corrected
Date
Sign.
Drawn AL. 29/10/80
Contr. SEJ
BUS EXPANDER
3028
Page 5 of 6
Replacement for
NORSK DATA A.S
Oslo, Norway
Replaced by

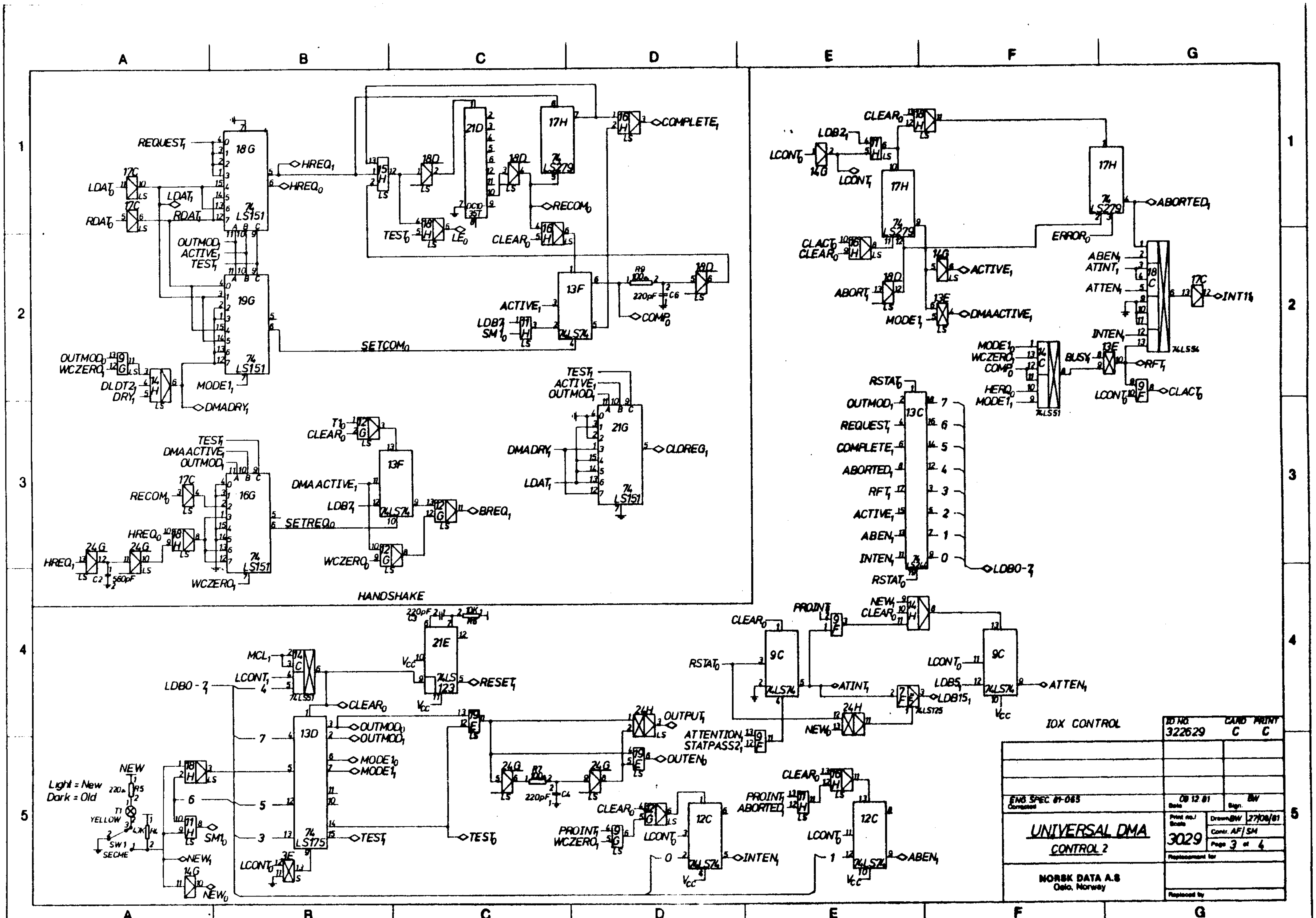


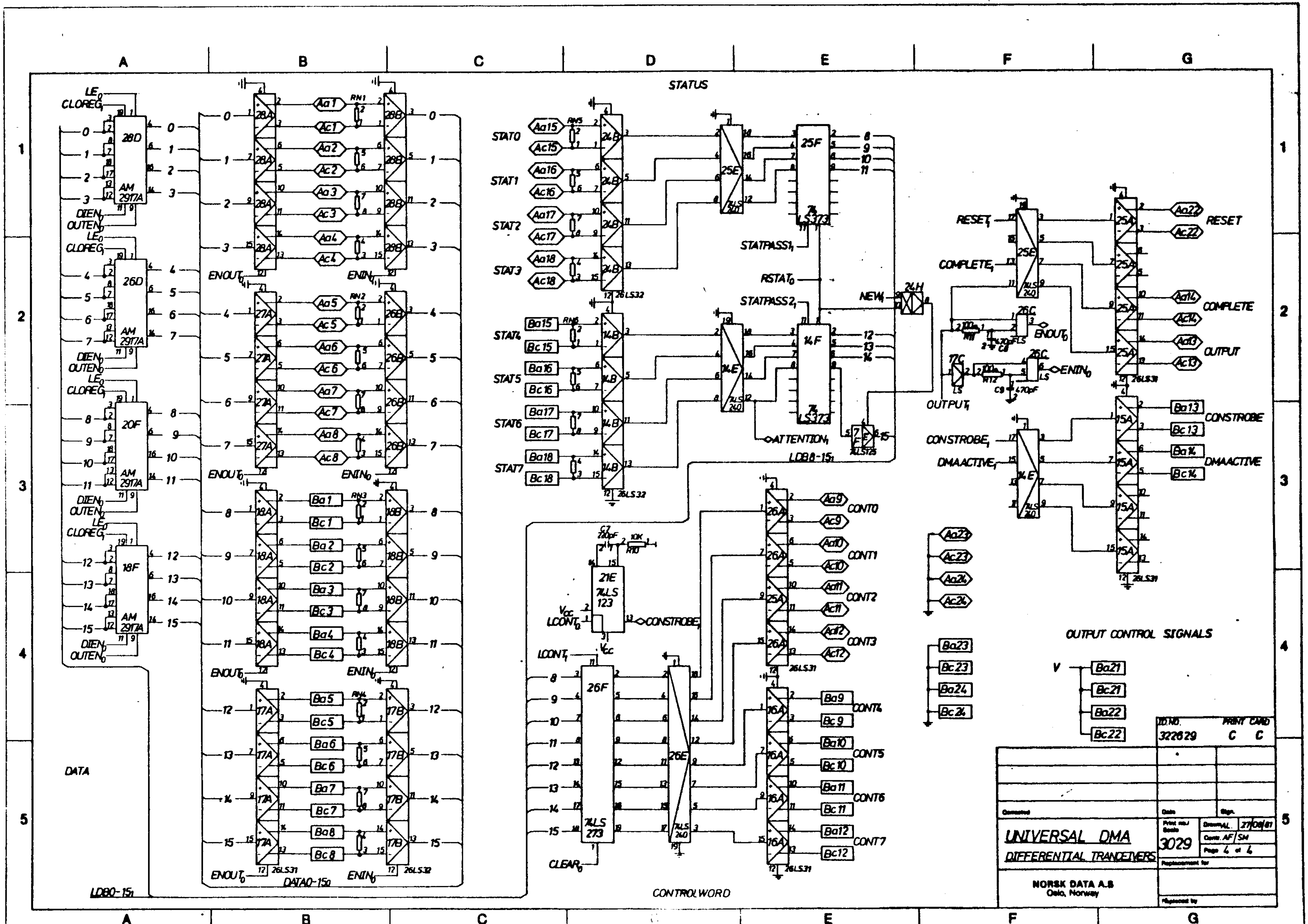
BUS EXPANDER
T.D. NO. 322628
CARD E
PRINT B
CORR. ACCORD TO ECO 100-139, 100-146 13/03/81 AL
100-152 21/07/81 AL
Corrected
Date
Sign.
Print no./Scale 3028
Drawn 29/10/80
Contr SE.J
Page 6 of 6
Replacement for
Replaced by
NORSK DATA A.S
Oslo, Norway



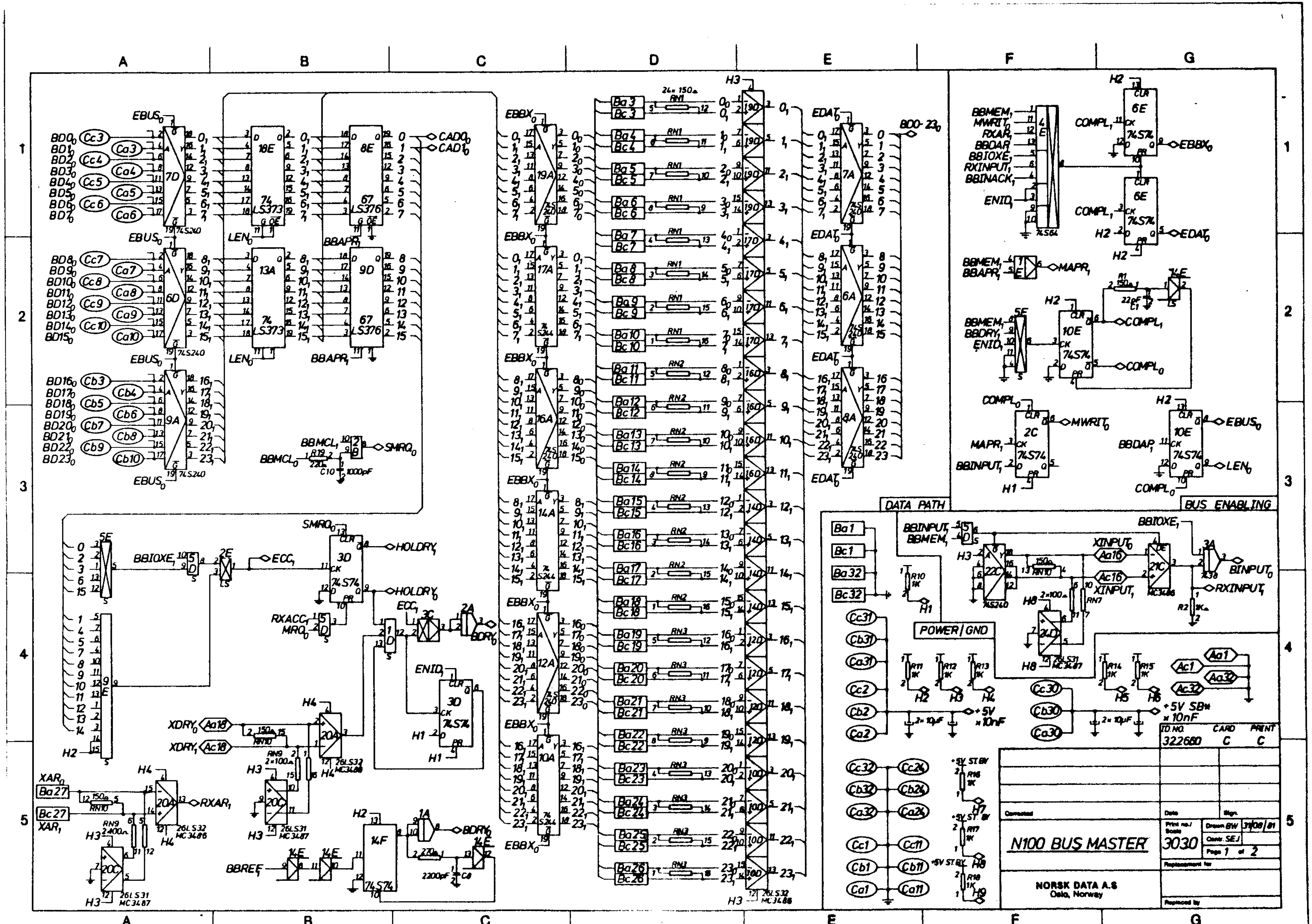
BUS TRANCEIVERS
MEMORY ADDRESS REGISTER
WORD COUNTER
LBD0-16
MARØ-23
IOX-
DEVICE NO.
IDENT NO.
& FUNCTION DEC.
ENG SPEC. 81-065
UNIVERSAL DMA
REGISTERS
3029
Page 1 of 4
NORSK DATA A.S
Oslo, Norway
ID NO. 322629
CARD C
PRINT C

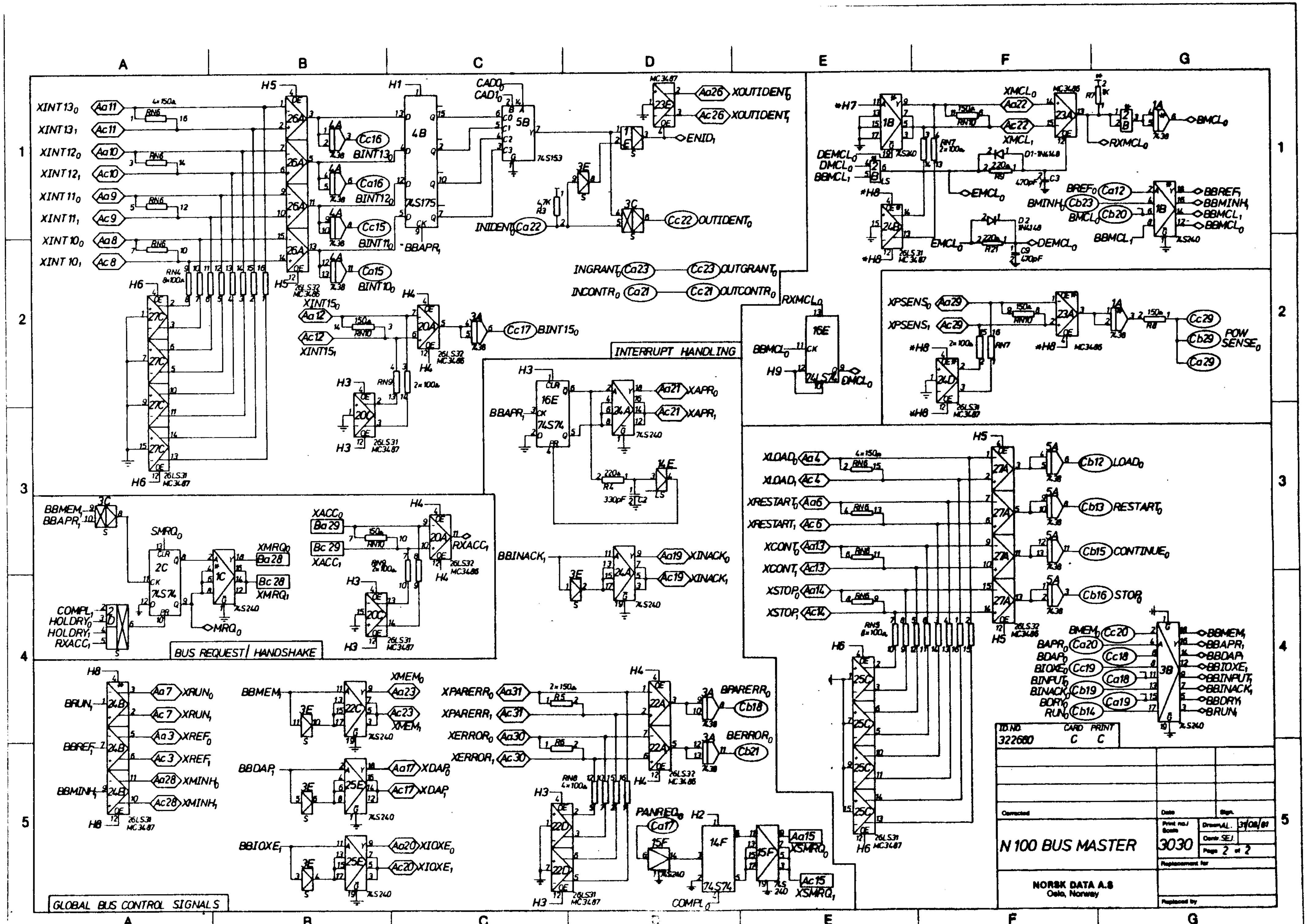

N100 CONTROL TRANCEIVERS
INPUT CONTROL SIGNALS
DMA CONTROL
BUSY
REQUEST
STATPASS1
STATPASS2
ABORT
ID NO. 322629
CARD PRINT C C
UNIVERSAL DMA
CONTROL 1
NORSK DATA A.S
Oslo, Norway
3029
Drawn AL. 27/08/81
Contr AF/SM
Page 2 of 4
Corrected
Date
Sign.
Print no./ Scale
Replacement for
Replaced by

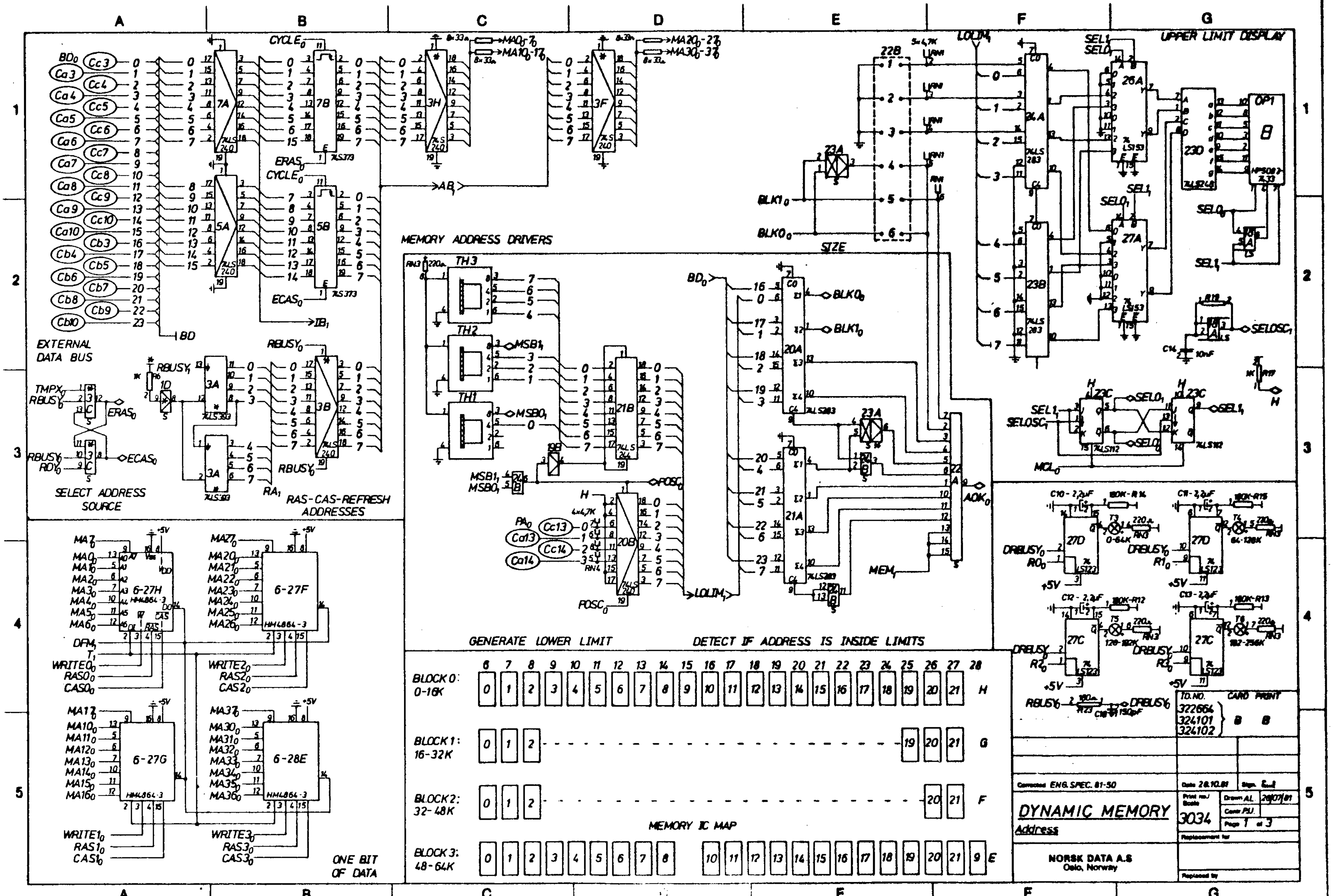

HANDSHAKE
IOX CONTROL
ID NO. 322629
CARD C
PRINT C
ENG SPEC 81-065
Date 08 12 81
Sign. BW
Print no./Scale 3029
Drawn BW 27/08/81
Contr. AF/SM
Page 3 of 4
Replacement for
Replaced by
UNIVERSAL DMA
CONTROL 2
NORSK DATA A.S
Oslo, Norway



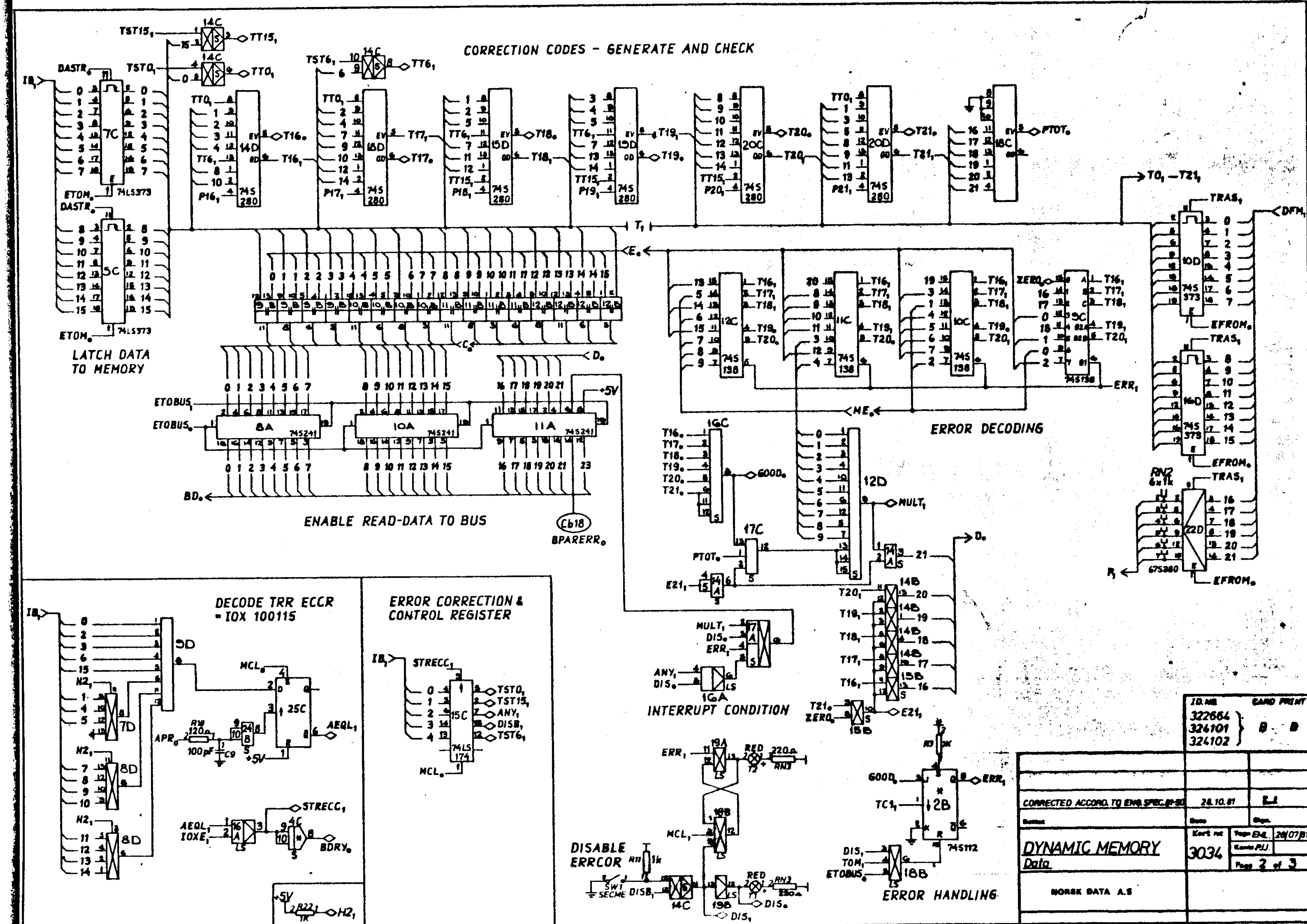
STATUS
DATA
CONTROLWORD
OUTPUT CONTROL SIGNALS
LD80-15
DATA0-15
LD88-15
STATPASS1
RSTAT
STATPASS2
NEW
ATTENTION
CONSTROBE
RESET
COMPLETE
OUTPUT
DMAACTIVE
CONT0
CONT1
CONT2
CONT3
CONT4
CONT5
CONT6
CONT7
STAT0
STAT1
STAT2
STAT3
STAT4
STAT5
STAT6
STAT7
ENOUT
ENIN
LCONT
CLEAR
UNIVERSAL DMA
DIFFERENTIAL TRANCEIVERS
NORSK DATA A.S
Oslo, Norway
ID.NO. 322829
PRINT CARD C C
3029
27/08/81
Page 4 of 4

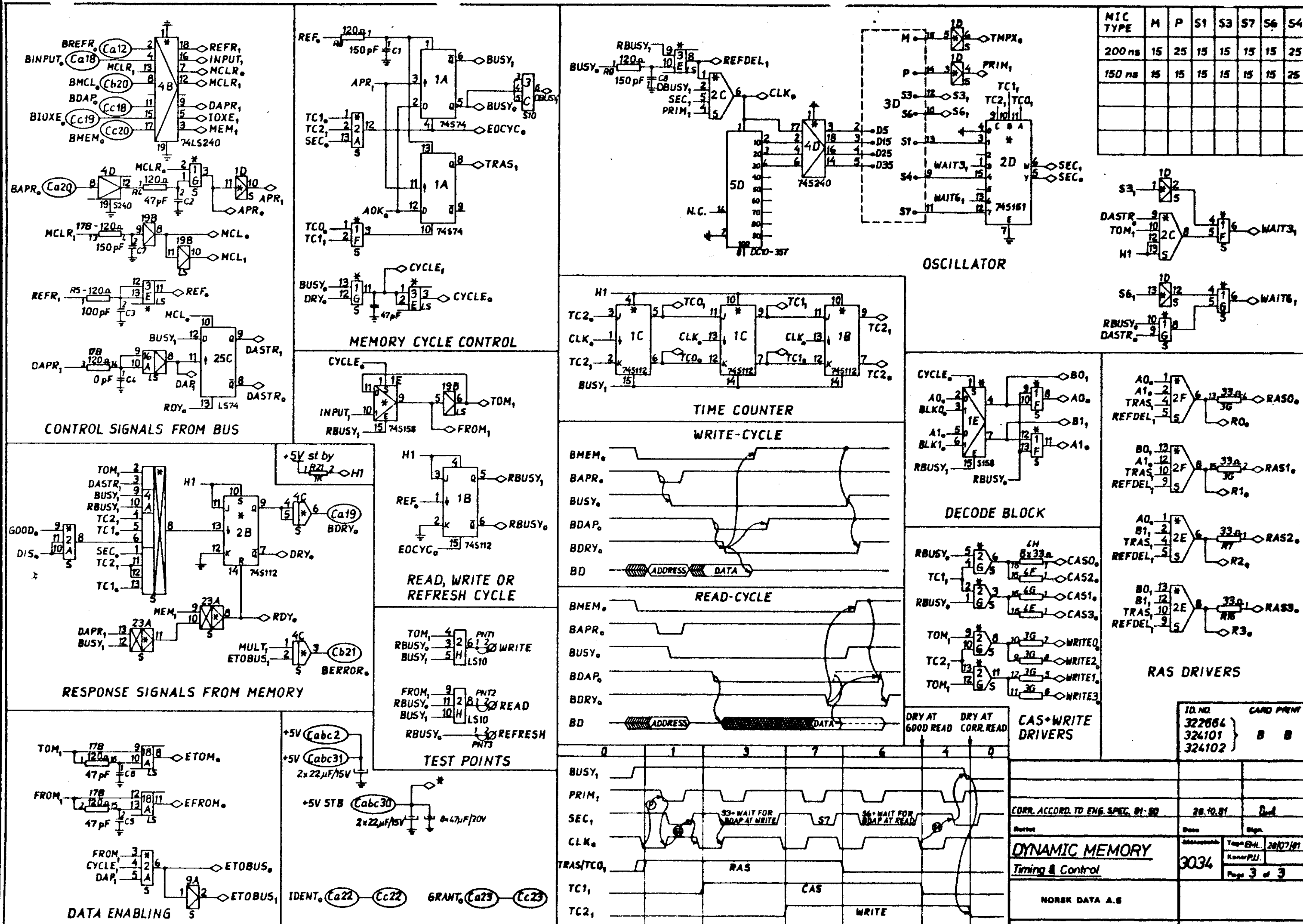

DATA PATH
BUS ENABLING
POWER / GND
TD.NO. 322680
CARD C
PRINT C
N100 BUS MASTER
3030
Drawn BW 31/08/81
Page 1 of 2
NORSK DATA A.S
Oslo, Norway


GLOBAL BUS CONTROL SIGNALS
BUS REQUEST / HANDSHAKE
INTERRUPT HANDLING
XINT13₀
XINT13₁
XINT12₀
XINT12₁
XINT11₀
XINT11₁
XINT10₀
XINT10₁
BINT13₀
BINT12₀
BINT11₀
BINT10₀
BINT15₀
XINT15₀
XINT15₁
XOUTIDENT₀
XOUTIDENT₁
OUTIDENT₀
INIDENT₀
ENID₁
INGRANT₀
OUTGRANT₀
INCONTR₀
OUTCONTR₀
XAPR₀
XAPR₁
XINACK₀
XINACK₁
BBINACK₁
BBAPR₁
XMCL₀
XMCL₁
RXMCL₀
BMCL₀
EMCL₀
DEMCL₀
DMCL₀
BBMCL₁
BBREF₁
BBMINH₁
XPSENS₀
XPSENS₁
POW SENSE₀
XLOAD₀
XLOAD₁
XRESTART₀
XRESTART₁
XCONT₀
XCONT₁
XSTOP₀
XSTOP₁
LOAD₀
RESTART₀
CONTINUE₀
STOP₀
BBMEM₁
BBAPR₁
BBDAP₁
BBIOXE₁
BBINPUT₁
BBINACK₁
BBDRY₁
BBRUN₁
XPARERR₀
XPARERR₁
XERROR₀
XERROR₁
BPARERR₀
BERROR₀
PANREQ₀
XSMRQ₀
XSMRQ₁
COMPL₀
XMRQ₀
XMRQ₁
MRQ₀
SMRQ₀
XACC₀
XACC₁
RXACC₁
HOLDRY₀
HOLDRY₁
XMEM₀
XMEM₁
XDAP₀
XDAP₁
XIOXE₀
XIOXE₁
XRUN₀
XRUN₁
XREF₀
XREF₁
XMINH₀
XMINH₁
ID.NO. 322680
CARD C
PRINT C
N 100 BUS MASTER
3030
Page 2 of 2
NORSK DATA A.S
Oslo, Norway

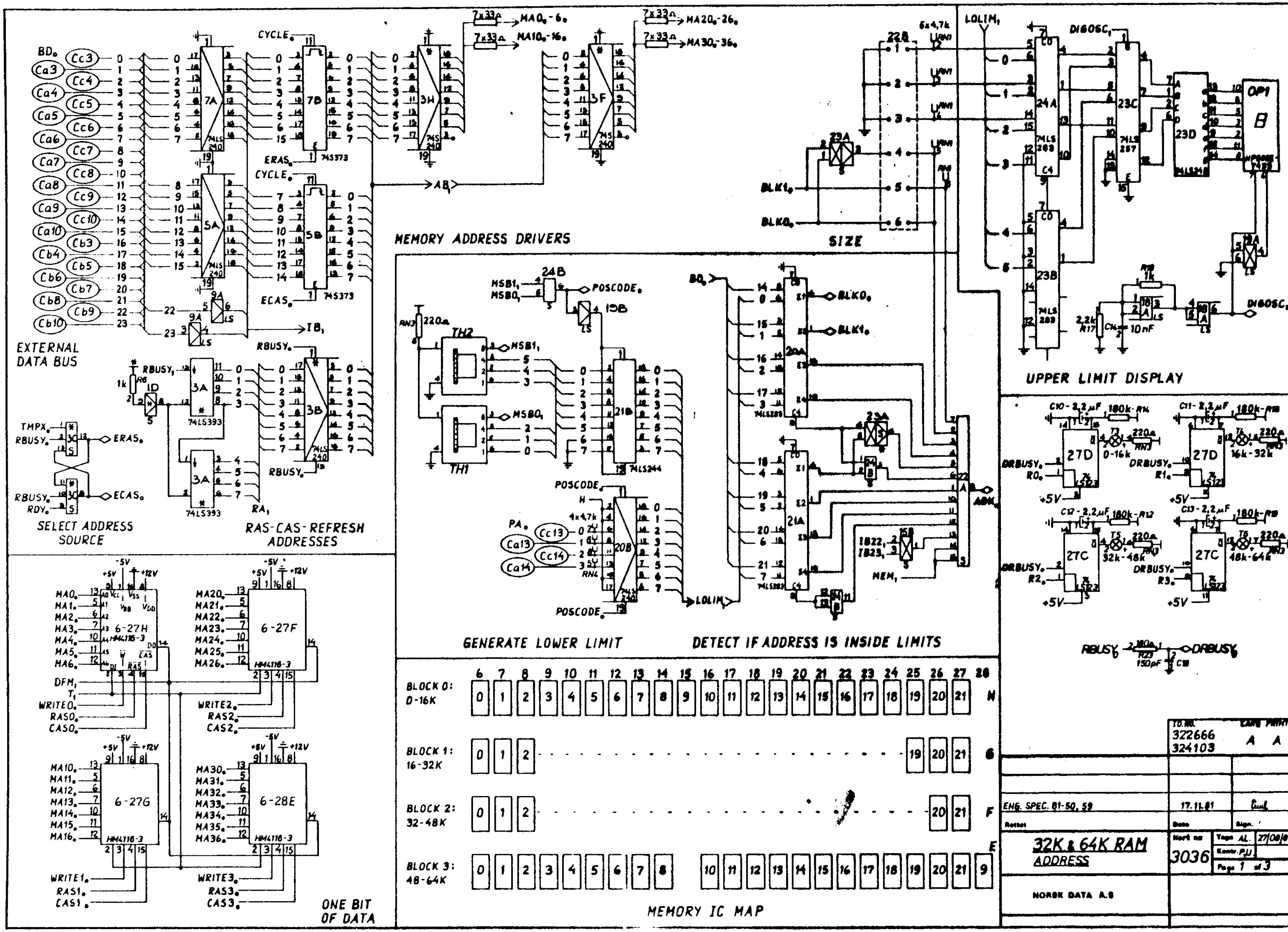


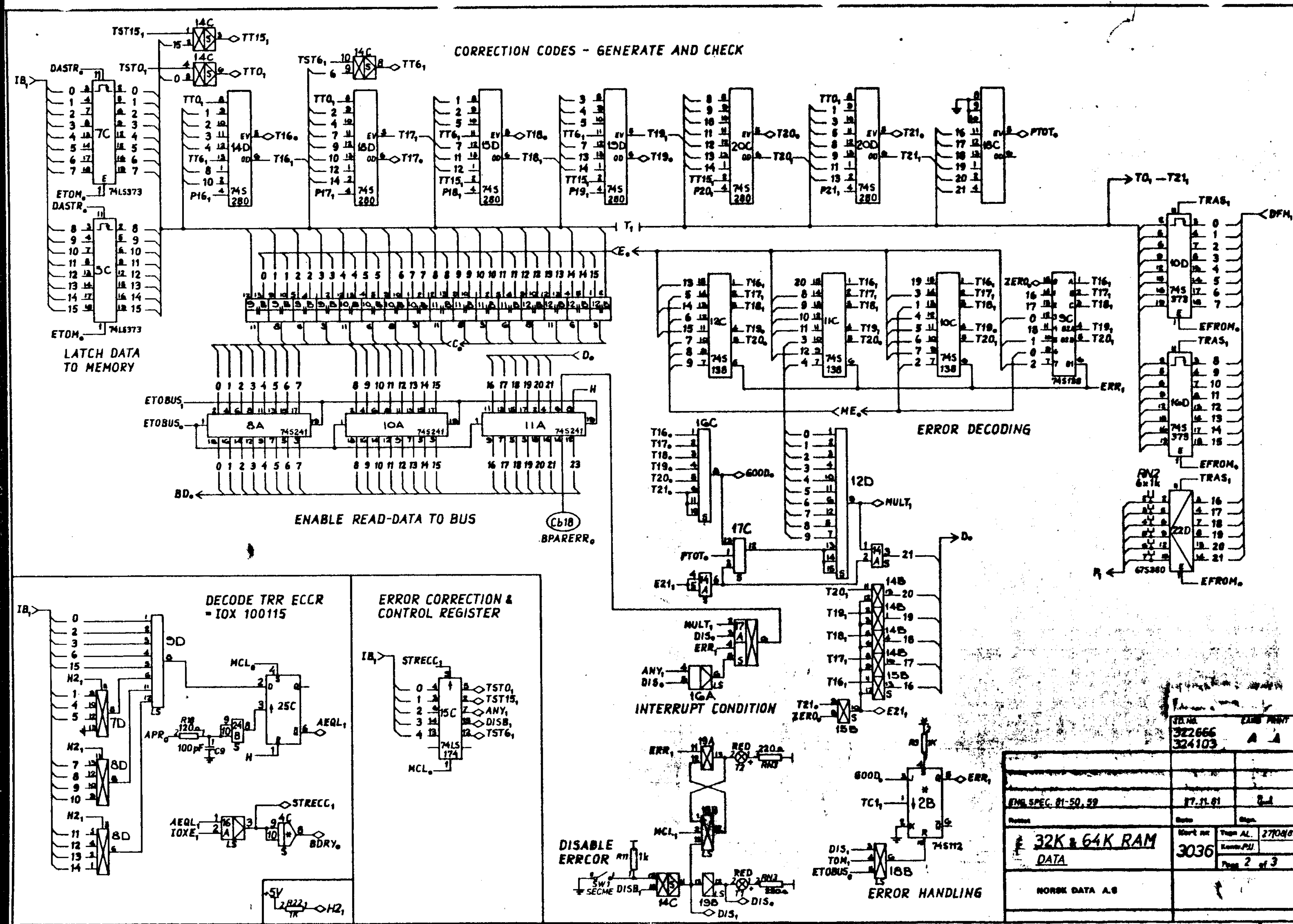
UPPER LIMIT DISPLAY
EXTERNAL DATA BUS
SELECT ADDRESS SOURCE
RAS-CAS-REFRESH ADDRESSES
MEMORY ADDRESS DRIVERS
SIZE
GENERATE LOWER LIMIT
DETECT IF ADDRESS IS INSIDE LIMITS
BLOCK 0: 0-16K
BLOCK 1: 16-32K
BLOCK 2: 32-48K
BLOCK 3: 48-64K
MEMORY IC MAP
ONE BIT OF DATA
TD.NO. 322664 324101 324102
CARD PRINT B B
Corrected ENG. SPEC. 81-50
Date 28.10.81
DYNAMIC MEMORY
Address
3034
Page 1 of 3
NORSK DATA A.S
Oslo, Norway

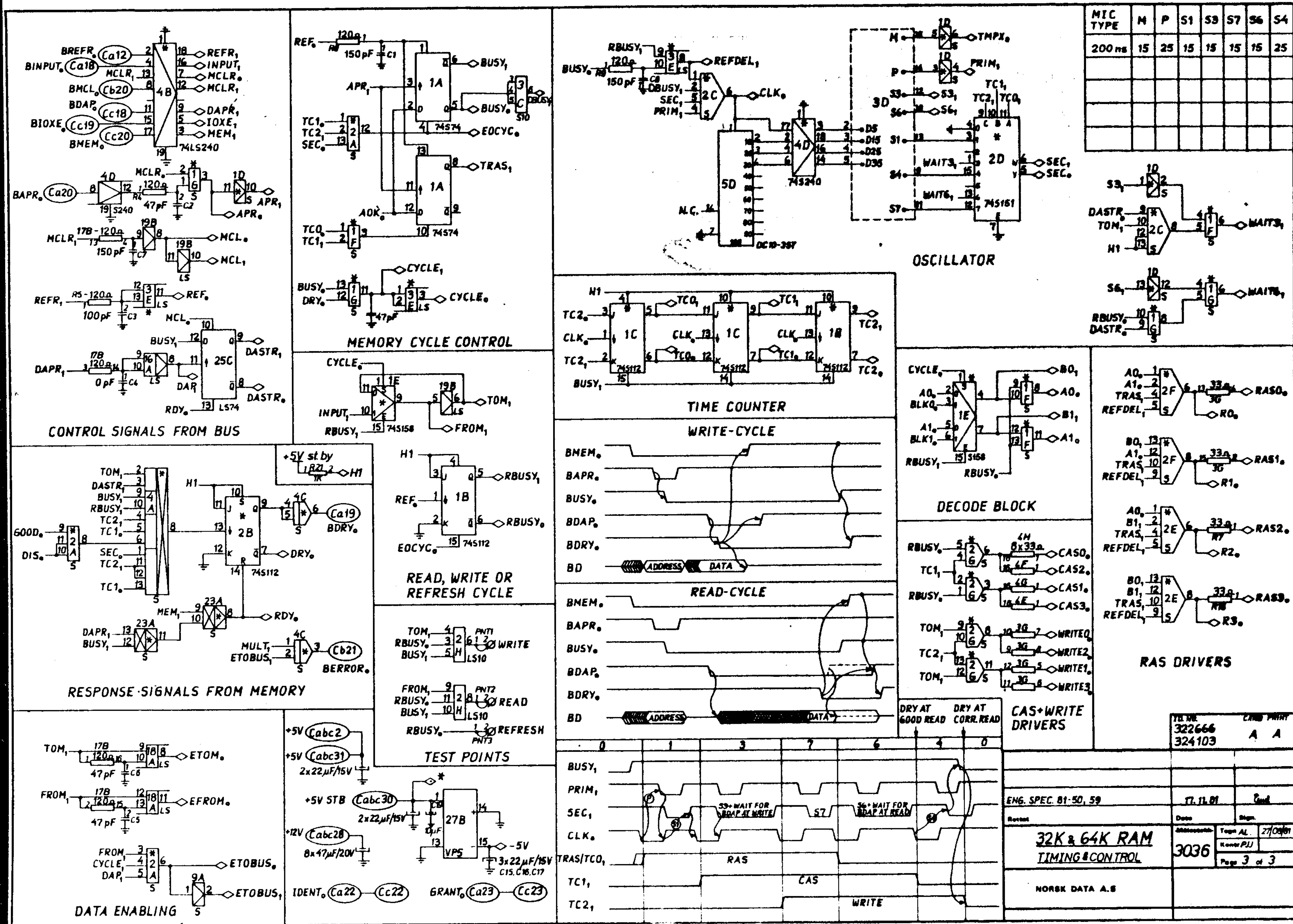

CORRECTION CODES - GENERATE AND CHECK
LATCH DATA TO MEMORY
ENABLE READ-DATA TO BUS
ERROR DECODING
DECODE TRR ECCR = IOX 100115
ERROR CORRECTION & CONTROL REGISTER
INTERRUPT CONDITION
DISABLE ERRCOR
ERROR HANDLING
ID. NR 322664 324101 324102
CORRECTED ACCORD. TO ENG. SPEC.
28.10.81
DYNAMIC MEMORY
Data
NORSK DATA A.S
3034
28/07/81
Page 2 of 3

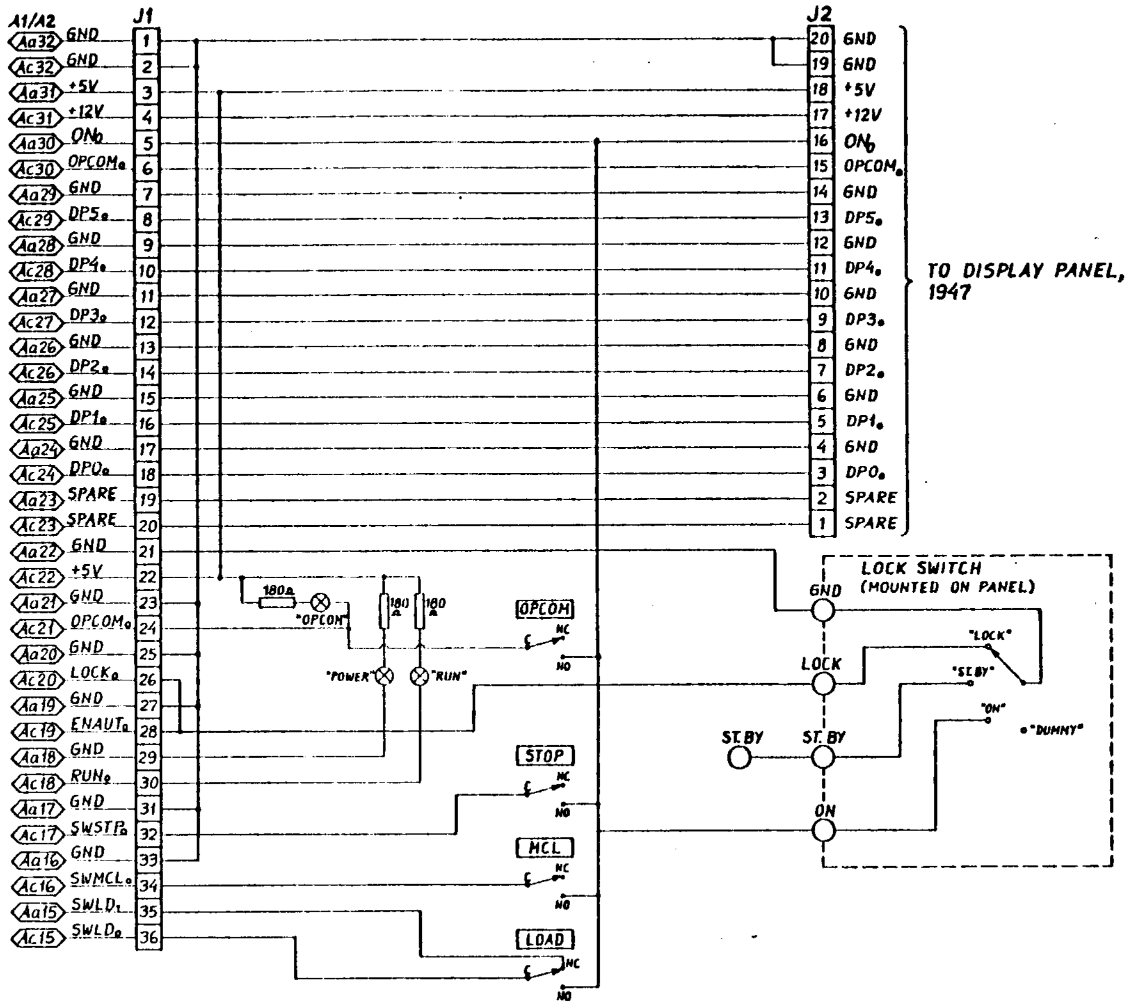


MIC TYPE	M	P	S1	S3	S7	S6	S4
200 ns	15	25	15	15	15	15	25
150 ns	15	15	15	15	15	15	25


EXTERNAL DATA BUS
SELECT ADDRESS SOURCE
RAS-CAS-REFRESH ADDRESSES
MEMORY ADDRESS DRIVERS
SIZE
UPPER LIMIT DISPLAY
GENERATE LOWER LIMIT
DETECT IF ADDRESS IS INSIDE LIMITS
ONE BIT OF DATA
MEMORY IC MAP
BLOCK 0: 0-16K
BLOCK 1: 16-32K
BLOCK 2: 32-48K
BLOCK 3: 48-64K
ENG. SPEC. 81-50, 59
17.11.81
32K & 64K RAM
ADDRESS
3036
27/08/81
Page 1 of 3
322666
324103
NORSK DATA A.S

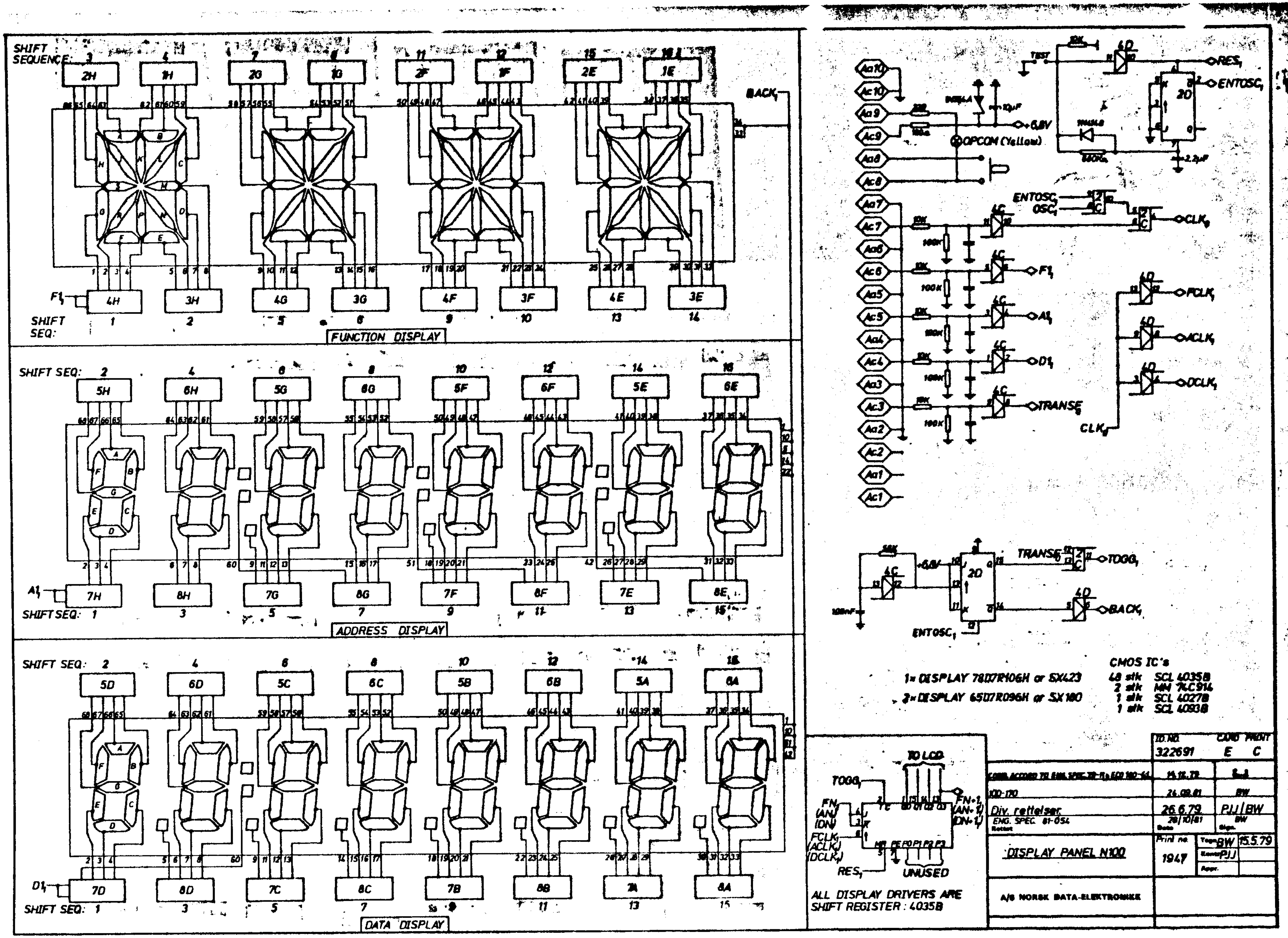

CORRECTION CODES - GENERATE AND CHECK
LATCH DATA TO MEMORY
ENABLE READ-DATA TO BUS
ERROR DECODING
INTERRUPT CONDITION
ERROR HANDLING
DISABLE ERRCOR
DECODE TRR ECCR = IOX 100115
ERROR CORRECTION & CONTROL REGISTER
32K & 64K RAM
DATA
NORSK DATA A.S
ENG. SPEC. 81-50, 59
3036
322666
324103
Page 2 of 3


CONTROL SIGNALS FROM BUS
MEMORY CYCLE CONTROL
OSCILLATOR
TIME COUNTER
WRITE-CYCLE
READ-CYCLE
DECODE BLOCK
RAS DRIVERS
CAS+WRITE DRIVERS
RESPONSE·SIGNALS FROM MEMORY
READ, WRITE OR REFRESH CYCLE
TEST POINTS
DATA ENABLING
MIC TYPE | M | P | S1 | S3 | S7 | S6 | S4
200 ns | 15 | 25 | 15 | 15 | 15 | 15 | 25
DRY AT GOOD READ
DRY AT CORR. READ
ENG. SPEC. 81-50, 59
17.11.81
32K & 64K RAM
TIMING & CONTROL
3036
Page 3 of 3
322666
324103
A A
NORSK DATA A.S

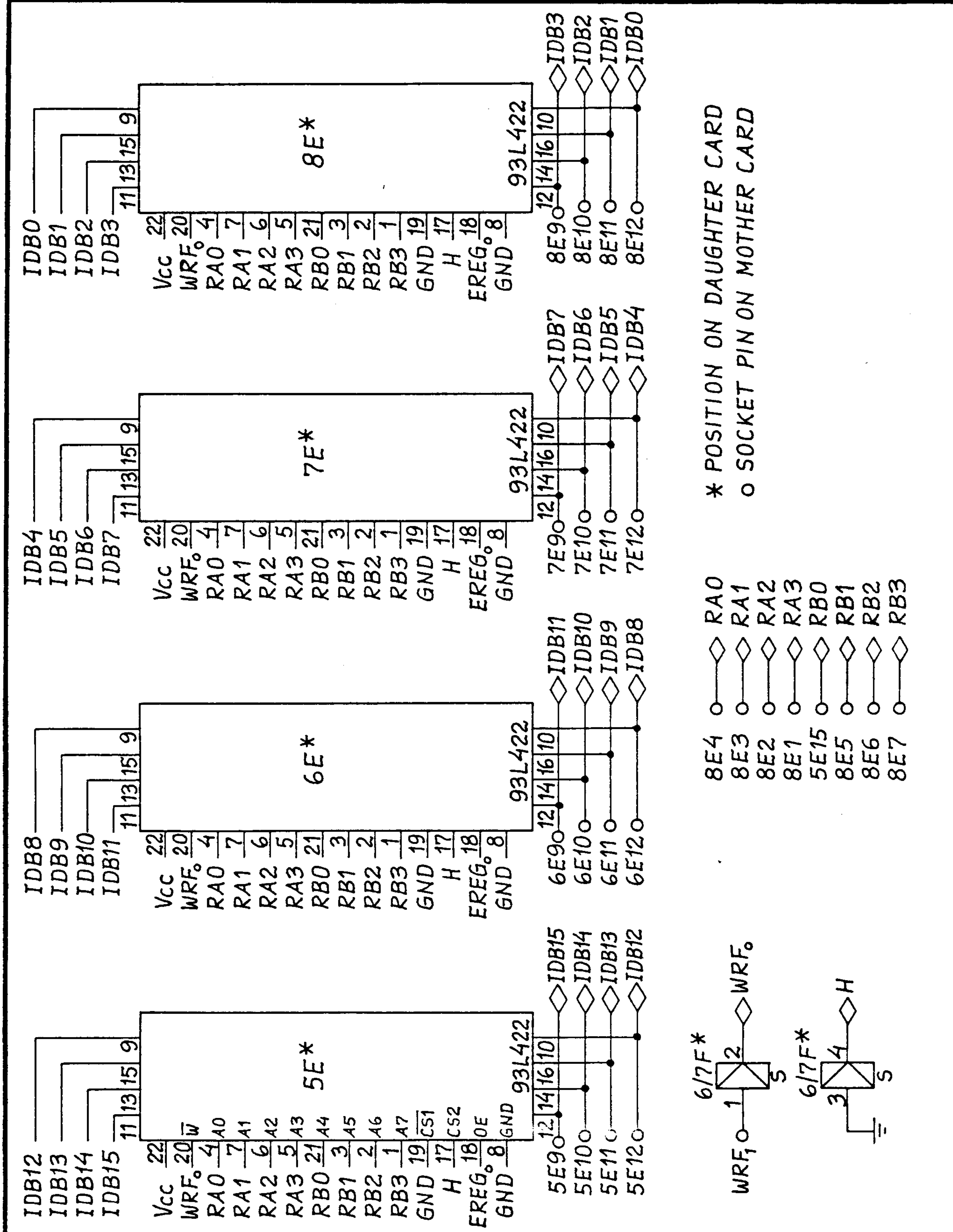


CORRECTED ACCORDING TO ECO 100-59	14.12.79	BW
Corrected	Date	Sign
PANEL CONTROL N-100	Print no 1946	Drawn [illegible] 25.05.79; Contr SEJ; Page 1 of 1
NORSK DATA A.S Oslo, Norway	7B30	

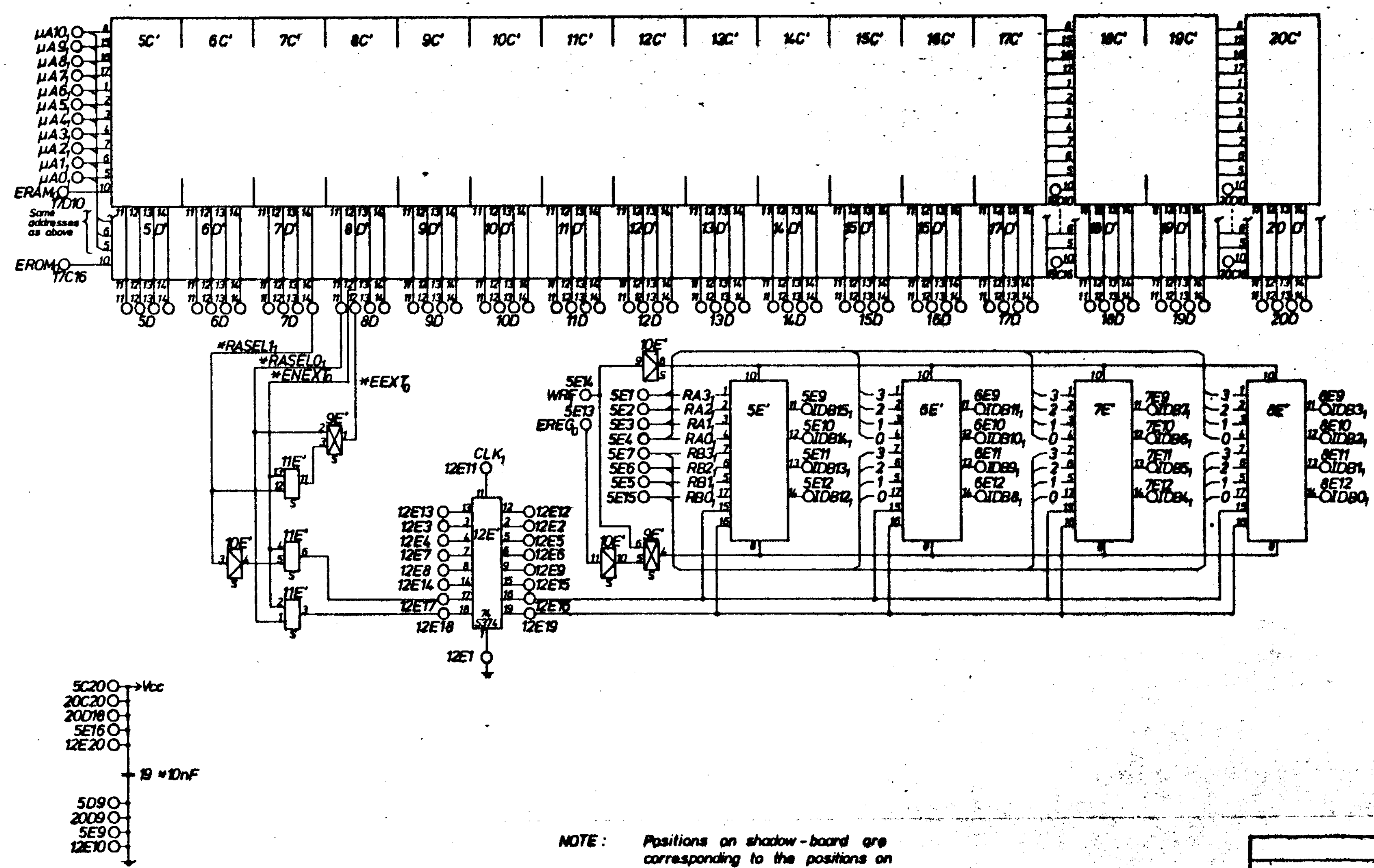
ID NO. 322690 — CARD PRINT D C


SHIFT SEQUENCE
FUNCTION DISPLAY
ADDRESS DISPLAY
DATA DISPLAY
SHIFT SEQ:
BACK
OPCOM (Yellow)
ENTOSC
OSC
CLK
TRANSE
TOGG
RES
FCLK
ACLK
DCLK
1× DISPLAY 78D7R106H or SX423
3× DISPLAY 65D7R096H or SX180
CMOS IC's
48 stk SCL 4035B
2 stk MM 74C914
1 stk SCL 4027B
1 stk SCL 4093B
TO LCD
UNUSED
ALL DISPLAY DRIVERS ARE
SHIFT REGISTER : 4035B
ID.NO. 322691
CORD PRINT E C
Div. rettelser
ENG. SPEC. 81-054
26.6.79
PJJ/BW
DISPLAY PANEL N100
Print no. 1947
15.5.79
A/S NORSK DATA-ELEKTRONIKK

A/S NORSK DATA-ELEKTRONIKK	Title RF ADAPTER 1 1951	ID.NO. 322762	CARD A	PRINT A

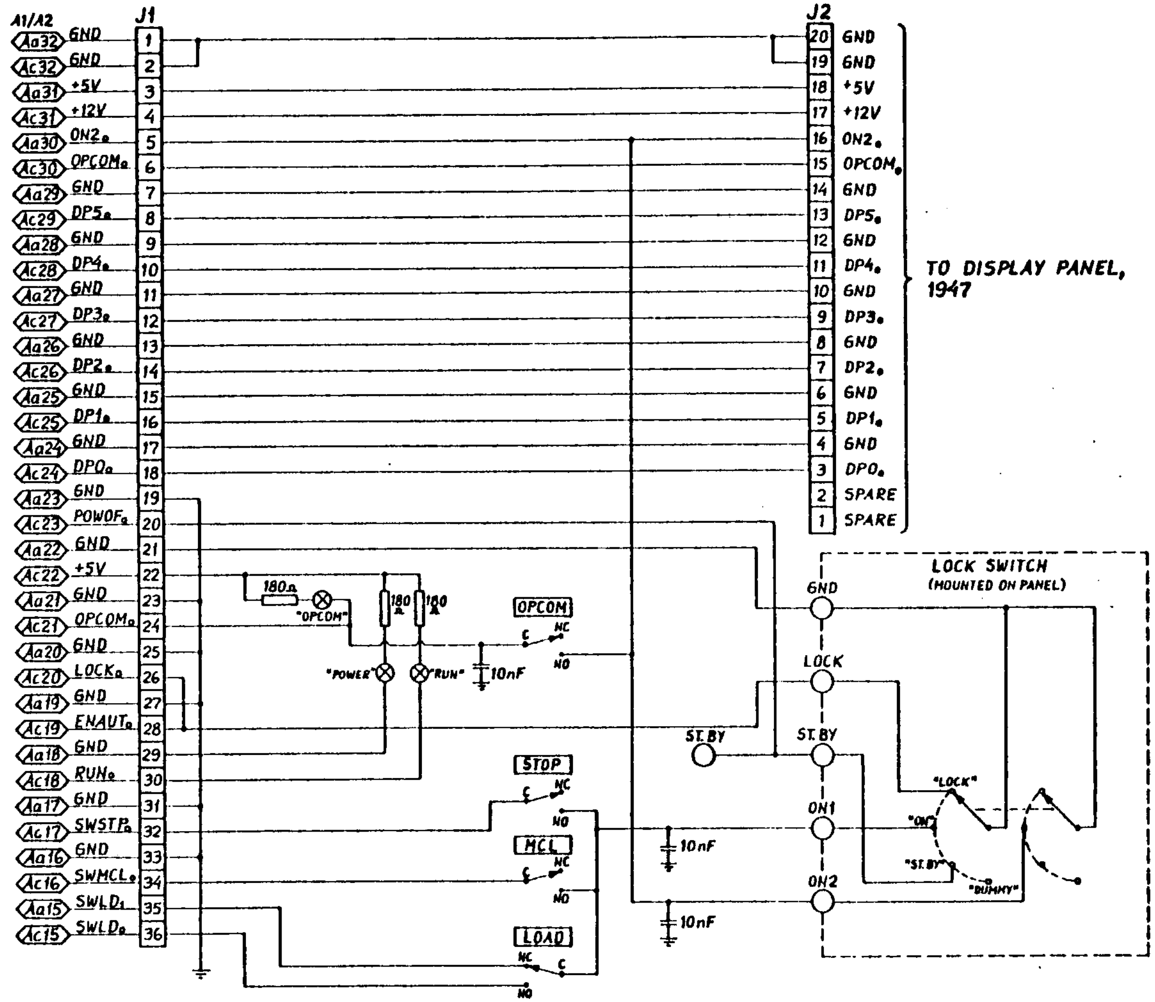


DRAWN BY Emil	Remarks 322762 is to a replacement for the four SN74S207 in positions 5,6,7&8E on N-100 CPU (322602)	Replacement for	Date
APPROVED BY IB		Replaced by	Date
DATE 27.1.79			

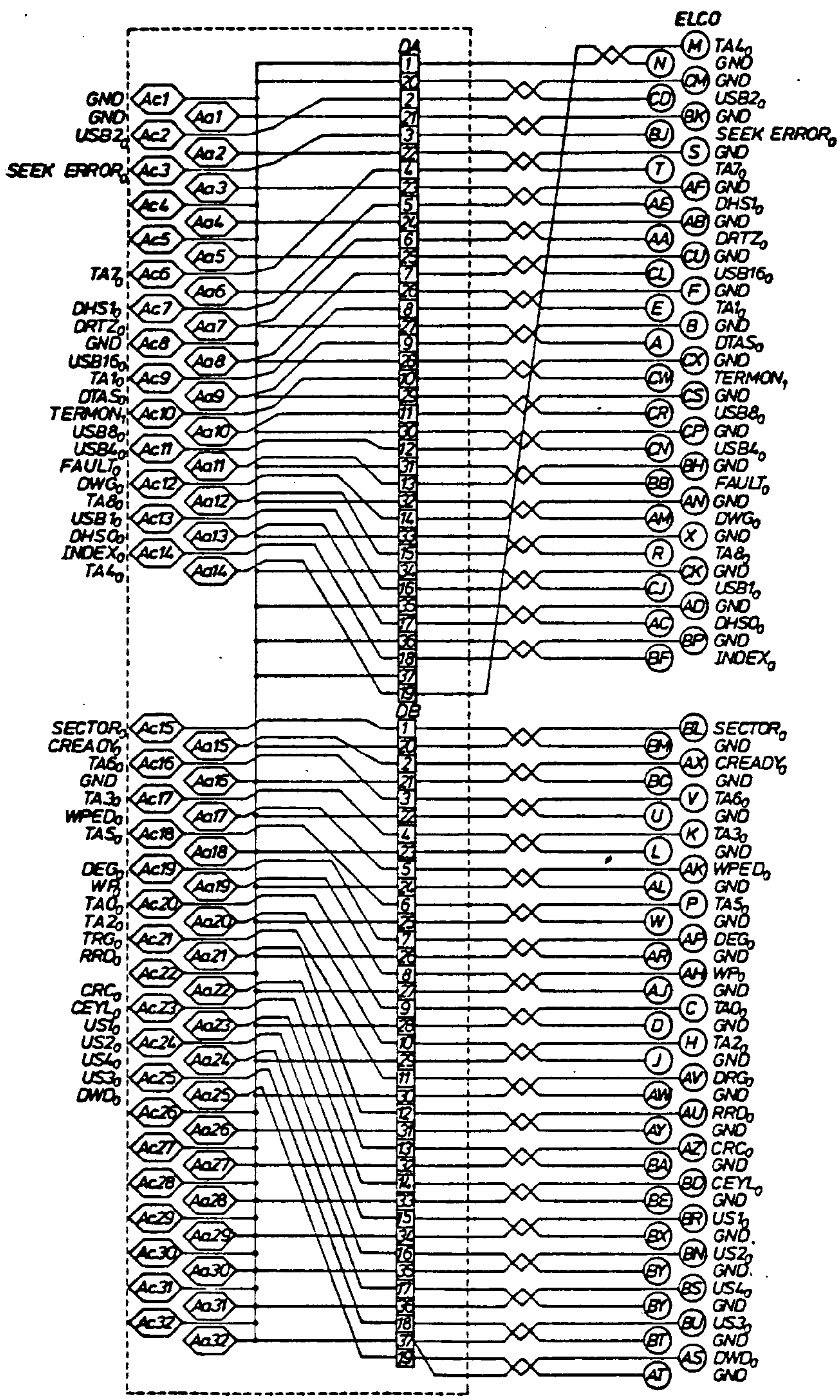


NOTE: Positions on shadow-board are corresponding to the positions on main board, but marked with a ' (ex. 5E')

322790	C C
4K PROM ADAPTER FOR 3002	1961
NORSK DATA A.S Oslo, Norway	



ID. NO. 322778	CARD PRINT B A
CORRECTED ACCORDING TO ECO 100-62	14.12.79. BW
Corrected	Date / Sign.
PANEL CONTROL N-100	Print no 1964 · Drawn 25.05.74 · Cont. SEJ · Page 1 of 1 · Replacement for 322690 LC
NORSK DATA A.S Oslo, Norway	7B31 · Replaced by



TB NO 322792

CARD B

PRINT B

Drawn BW 28.8.79

Cont. SEI

Print no. 1965

7B32

10MB DISK CABLE ADAPTER

NORSK DATA A.S
Oslo, Norway

TOTNO 322793

CARD PRINT B B

Drawn BW 29879

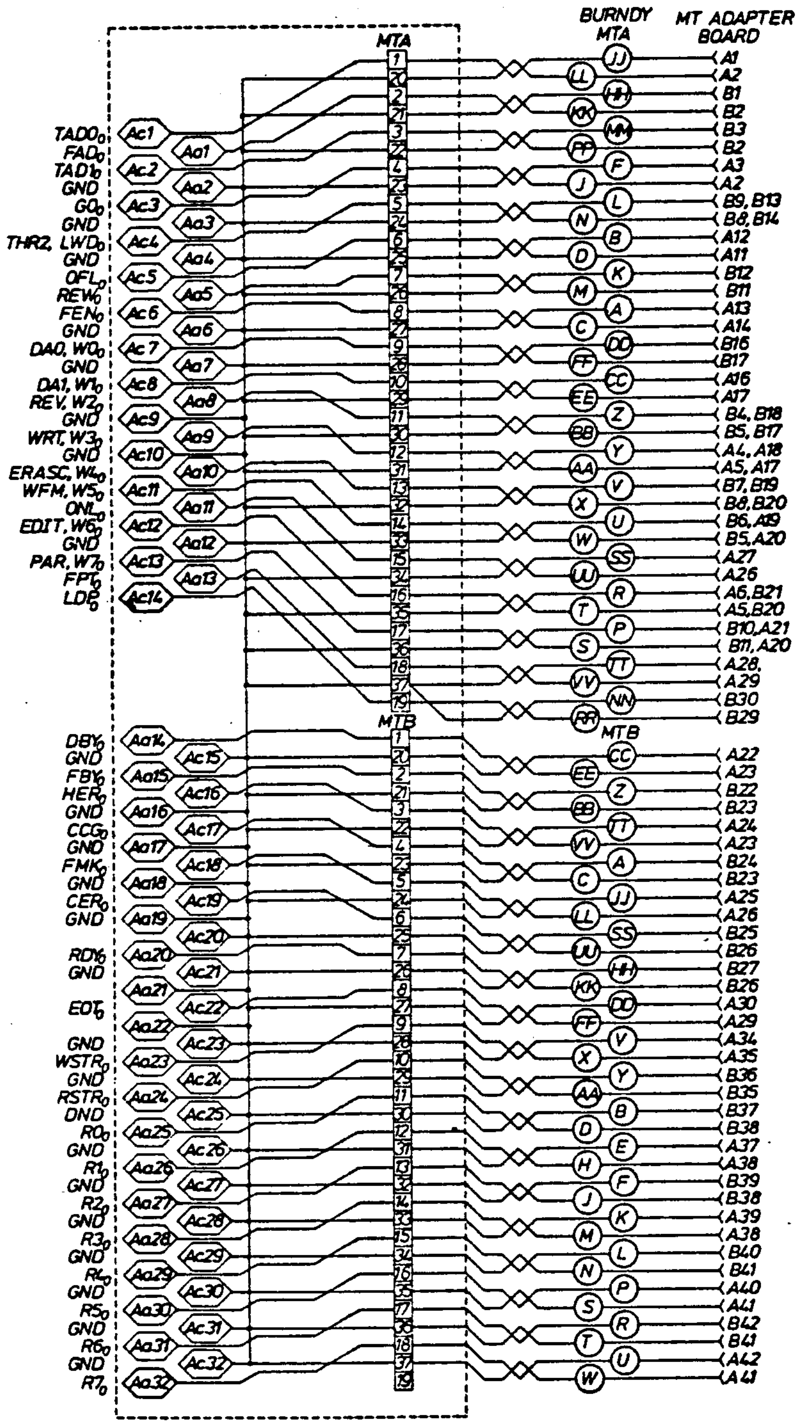
SEJ

1966

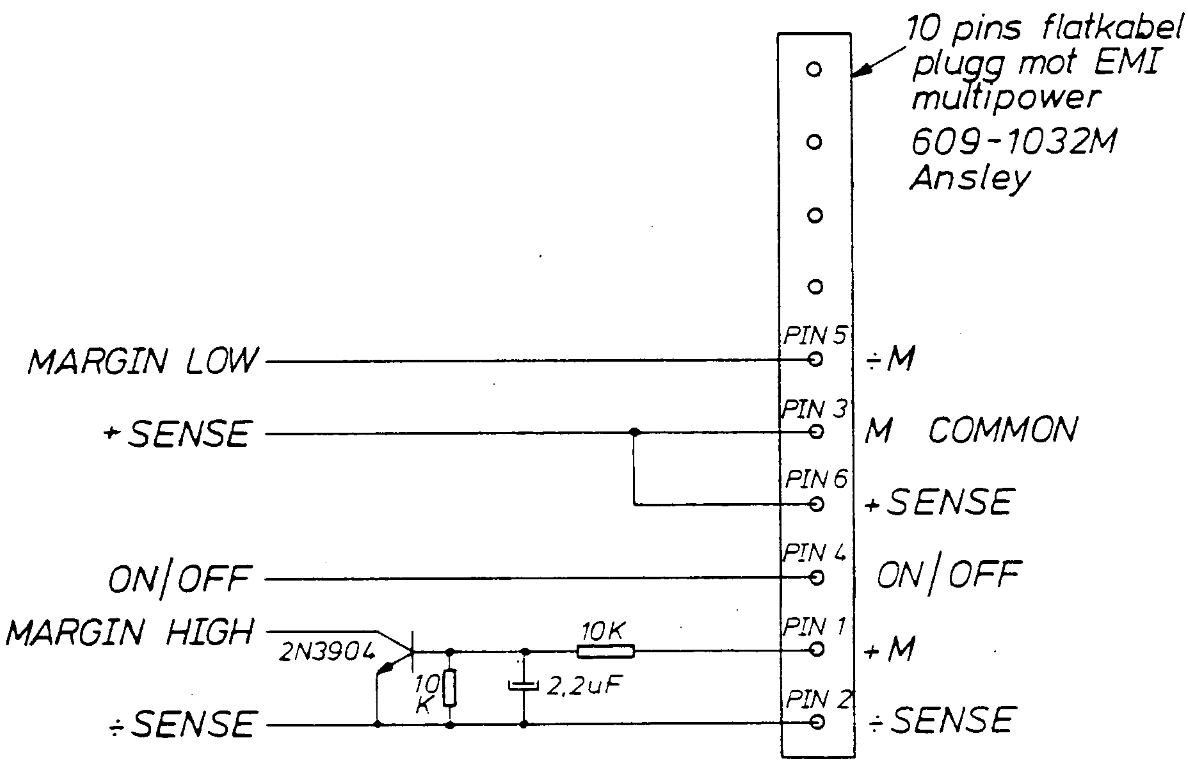
7B33

PERTEC M-T CABLE ADAPTER

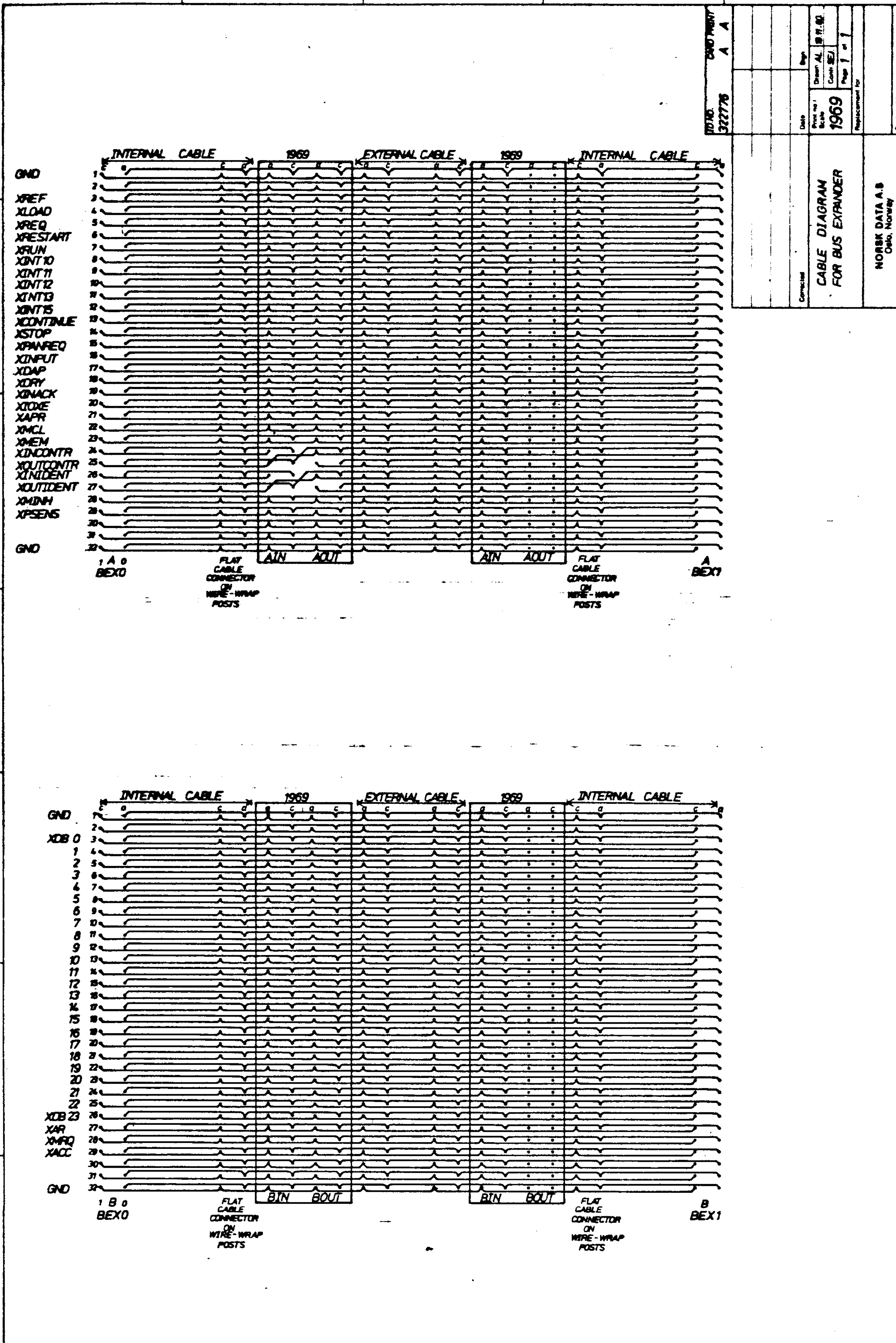
NORSK DATA A.S
Oslo, Norway



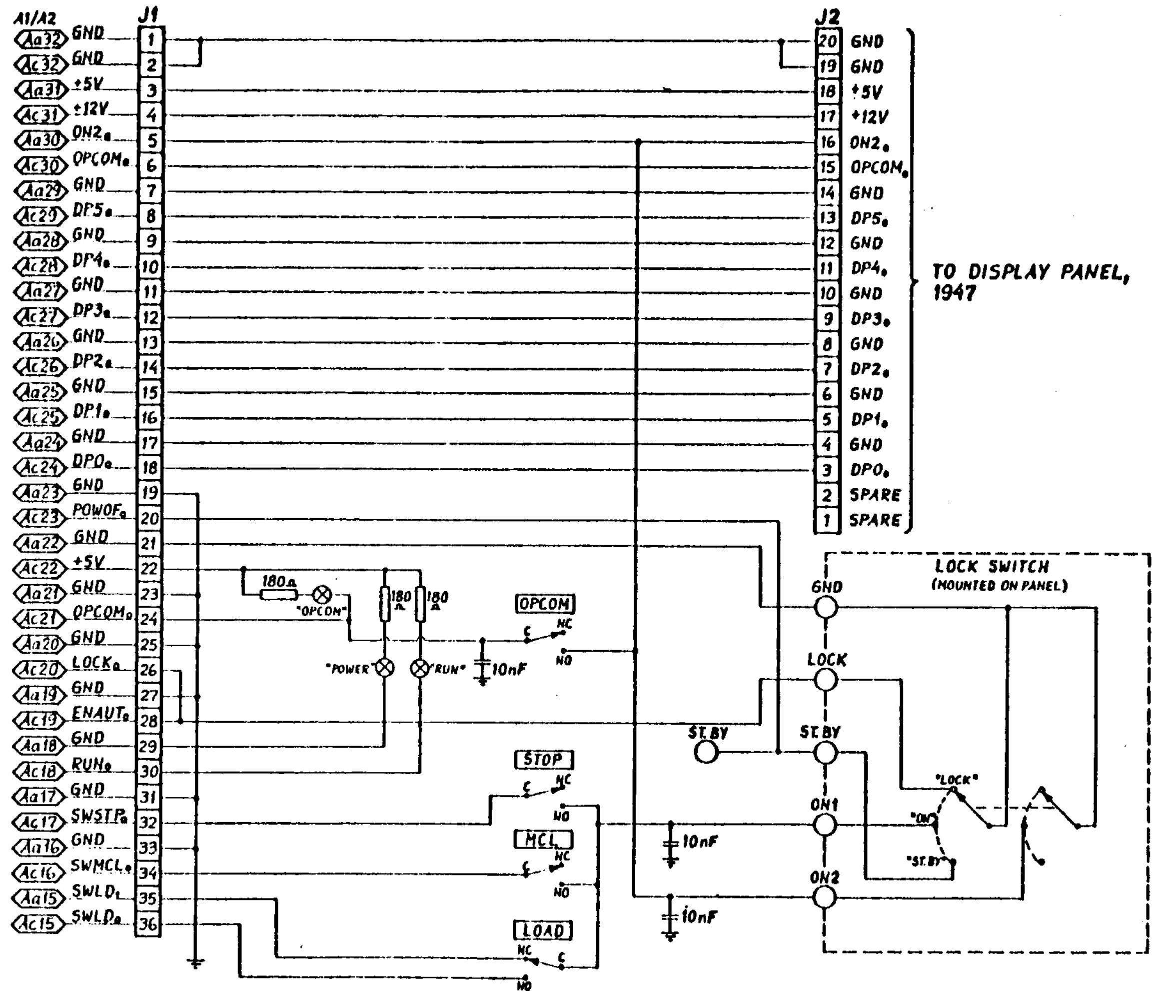
NORSK DATA A.S Oslo, Norway	Title LH ADAPTER	ID.NO 322795 · CARD A · PRINT A



DRAWN BY BW APPROVED BY KA DATE 19.10.79	Remarks PRINT 1968	Replacement for Date Replaced by Date



CABLE DIAGRAM FOR BUS EXPANDER
NORSK DATA A.S
Oslo, Norway
322776
1969
Page 1 of 1
INTERNAL CABLE
1969
EXTERNAL CABLE
1969
INTERNAL CABLE
GND
XREF
XLOAD
XREQ
XRESTART
XRUN
XINT10
XINT11
XINT12
XINT13
XINT15
XCONTINUE
XSTOP
XPANREQ
XINPUT
XDAP
XDRY
XINACK
XIOXE
XAPR
XMCL
XMEM
XINCONTR
XOUTCONTR
XINIDENT
XOUTIDENT
XMINH
XPSENS
GND
AIN
AOUT
1 A 0
BEX0
FLAT CABLE CONNECTOR ON WIRE-WRAP POSTS
A
BEX1
INTERNAL CABLE
1969
EXTERNAL CABLE
1969
INTERNAL CABLE
GND
XDB 0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
XDB 23
XAR
XMRQ
XACC
GND
BIN
BOUT
1 B 0
BEX0
FLAT CABLE CONNECTOR ON WIRE-WRAP POSTS
B
BEX1



ID. NO. 322693 CARD A PRINT A

PANEL CONTROL

N-100

Print no 1981

Drawn 02.07.81

Page 1 of 1

Replacement for 322778 BA

NORSK DATA A.S
Oslo, Norway

NORSK DATA A.S

W I R I N G S L I S T

322968/322969	Pertec M-T Controller	Internal Cable N-100	3-9312
322957/322958	Bus Address(N-10 BUS)	Internal Cable N-100	3-9313
322957/322958	Bus Data/Bus Control(N-10)	Internal Cable N-100	3-9314
322976/322977	MPM Data + Control	Internal Cable N-100	3-9315
322976/322977	MPM Address + Control	Internal Cable N-100	3-9316
322868	4. Terminal Interface	Asynchron Modem N-100	3-9317
322978/322979	4. Terminal Interface	N-100	3-9318
322730	4. Terminal Interface	Infoton Display N-100	3-9319
322730	4. Terminal Interface	Decwriter N-100	3-9321
322476	4. Terminal Interface	Tandberg TDV 2115 N-100	3-9322
322970/322971	10 MB Disc 3004	Internal Cable N-100	3-9323
322803	Operator Panel	Console Terminal N-100	3-9324
Ikke struktur	Autoload	Cable for N-100	3-9325
Ikke struktur	HDLC	Internal Cable N-100	3-9326
322966/322967	Floppy Disc	Cable for N-100	3-9327
322870	HDLC Interconn. HDLC -	HDLC Link Ext.cab. N100-N10/S	3-9328C
322872	HDLC to Modem	External Cable for N-100	3-9329B
322871	HDLC Interconn. HDLC -	HDLC Link ext.cab.N100-N100	3-9330
322960/322961	Camac Address	Internal Cable N-100	3-9331
322960/322961	Camac Data/Control	Internal Cable N-100	3-9332
322920	Pertec M-T Controller	External Cable A	3-9339
322920	Pertec M-T Controller	External Cable B	3-9340
322922	10 MB Disc	External Cable A N-100	3-9341
322922	10 MB Disc	External Cable B N-100	3-9342
322461	Direct RS 232C for TDV 21/2215	External Cable for N-100	3-9343B
322875	Floppy Disc	External Cable for N-100	3-9352B
322873	4. Terminal Interface	Tally 1612 N-100 (RS232)	3-9365
322867	4. Terminal Interface	Terminet 340 N-100 RS232	3-9366
Ikke struktur	TDV 2000 Current Loop	External Cable N-100	3-9367
322876/322863 ext / int	SMD Contr. 3019 A-con	A-CAble (SMR+SMT) for N-100	3-9370
322876/322863 ext. / int.	SMD Data 3018 A-con	B-Cable Unit 0 (SMC0) A-Cable Unit 1 (SMC1) Internal	3-9371
322876/322863 ext. / int.	SMD Contr. 3018 B-con	B-Cable Unit 2 (SMC2) & Card Communication Cable Internal	3-9372
322876/322863	SMD Data 3019 B-con	A-Cable Unit 3 (SMC3) & Card Communication Cable Internal	3-9373
322877	SMC	External Cable N-100	3-9375
322861	Phoenix Disc Cab. "B"	Internal Cable mounted in N-100 Cab.	3-9376
322860	Phoenix Disc Cab. "A"	Internal Cable mounted in N-100 Cab.	3-9377

OBS! Versions B,C etc. indicate an updated list.

/2.........

322858/322856	STC MT Contr. - STC MT	Form. Int.+Ext. Cable N-100	3-9379C
ext. / int.	STC MT Contr. - STC MT	Form. Int.+Ext. Cable N-100	3-9380C
322937	4. Terminal Interface	Cab. Between N100 and KM-1D RS 232	3-9381B
322873	KM-1D - Tally 1612		3-9383
322494	KM-1D - Terminet 340		3-9384
322493	Transmisson Line Cable Between NORD KM-1D and Device KM-1D via Telex Plug or 8 Pin Burndy Plug		3-9385
322953	Cable N-500/n-100 I/O		3-9387
322866	Megalink Interconn.	External Cable N-100/N-100	3-9388
322986	Pertec Plug Panel 1980		3-9389
322923	From N100 to ND 845 for Equipment that need up to 16 signals		3-9390
322927	External Cable from Multiswitch to Sync. Modem		3- 91
322925	From N-10 to ND 845 1:1 for equipment that need up to 16 signals		3-9392
322869	External Cable for N-100 RS 232 Diablo 1640/1650		3-9393
ikke struktur	Adapter form Plug 25P to plug 37S 1:1 for equipment needs up to 16 signals		3-9394
322730	Tally 1602/1612 Current Loop External cable for N-100		3-9395
322985	Pertec FT 9640-98 MT Cab. used with 1980 Adapter		3-9396
322985	Pertec FT 9649-98 MT Cab. used with 1980 Adapter		3-9397
322985	Internal Cable P4-P5 in MT Cab. used with 1980 adapter		3-9398
322803	Operator Panel Console Terminal with RS 232 and Current Loop N-100		3-9399
ikke struktur	HDLC to X-21	External Cable N-100	3-9501
322588	1981 PCB Operator Panel Cable for N-500		3-9502
322468	4. Terminal Interface for N-100 Tandberg TDV 2215		3- 03
ikke struktur	External Cable N-100 RS 232 Tektronix 4663 Plotter		3-9507
ikke struktur	External Cable N-100 RS 232 Omni 800		3-9508
ikke struktur	External Cable N-100 RS 232 Facit 4540		3-9509
ikke struktur	External Cable N-100 RS 232C Tektronix 4006		3-9510B
ikke struktur	Internal Cable Universal DMA for N-100 Cable A		3-9530
ikke struktur	Internal Cable Universal DMA for N-100 Cable B		3-9531
322944	External Cable Epson MX 80 to TDV 2215		3-9534
322943	External Cable Epson MX 80 N-100		3-9535C
322463/322462	Floppy Disc Cable for N-100		3-9536

OBS! Versions B,C etc. indicate an updated list.

NORSK DATA A.S

W I R I N G S L I S T

ext. / int.			
322975	16 Bit Digital Output		4-9410
322975	16 Bit Digital Input/Output		4-9411
322885/322975	Documentation Card Reader		4-9412
322975	Programmable Clock 1166		4-9413
322975	Data Product LP	W/Parallell Byte Output 1109	4-9414
322975	Centronics LP	W/Parallell Byte Output 1109	4-9415
322975	Loga Box MP	W/Parallell Byte Output 1109	4-9416
322975	CDC Matrix Printer	W/Parallell Byte Output 1109	4-9417
322975	Queme	w/Parallell Byte Output 1109	4-9418
322975	Facit Punch	W/Parallell Byte Output 1109	4-9419
322975	AD Converter	N-10 Standard	4-9420
322975	Prosess Input		4-9421
322975	Prosess Output		4-9422
322717/322975	Synchronous Modem		4-9428
322975	Tally Matrix Printer		4-9429
322975	Calcomp Plotter		4-9430
322878/322975	CDC Line Printer		4-9431
322478/322975	Digitronics Tape Reader	Device Plug	4-9432
322479/322975	Facit 4070	Device Plug	4-9433
322975	16 Bit Digital Input		4-9434
322938	External Cable SMC 1:1		4-9438
322849/322975	Terminet 340 1095 Mod. Current Loop		4-9440
322941	Adapter from Ansley to Burndy Plug N100 Main I/O Bus Control		4-9442
322942	Adapter from Ansley to Burndy Plug N100 Main I/O Bus Data		4-9443
322940	Adapter from Ansley to Burndy Plug N100 Main I/O Bus Address		4-9444
322879/322975	CDC Data Printer	1047 Card used on 3009 card	4-9445
322874/322975	Terminet 310/320/330/340 Buffered Parallell w/parallell byte output 1109 used on 3009 card		4-9446
322919	Tandberg TDV 21/2215	Asynchronous Modem	4-9447
322713	TTY w/Telexplug (TWX)	TDV 2115 w/Telexplug (2115WX)	4-9448
322864	NTB Teleprinter Interface Device Cable with 1-4 plug modified 3013 Card		4-9449
322865	NTB Teleprinter Interface Device Cable with 3-4 plug modified 3013 Card		4-9450
ikke struktur	Connection between Eurobus 3008 card A connector and N10-I/O Mainbus Address used in 11 moduls cabinet.		4-9451
ikke struktur	Connection between Eurobus 3008 card B connector and N10-I/O Mainbus Data and Control used in 11 mod. cab.		4-9452

OBS! Versions B,C etc. indicate an updated list.

/2......

W I R I N G S L I S T

ext. / int.		
322924/322975	External Cable N-100 to Multiswitch ND 845	4-9453
322778	Connection between 1964 and 4 pos. Key Switch	4-9455
322778	Nord-100 Key Switch Connection	4-9456
322483	TTY w/Telexplug (TWX) TDV 2215 w/Telexplug (2215WX)	4-9457

OBS! Versions B,C etc. indicate an updated list.

NORSK DATA A.S	Title: PERTEC M-T CONTROLLER INTERNAL CABLE N-100	Drawing No. 3-9312

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL PIN NO.	DEVICE PLUG PIN NO.		
01	TAD 0	0	Ac1				
02	FAD	0	Aa1				
03	TAD 1	0	Ac2				
04	GND		Aa2				
05	GO	0	Ac3				
06	GND		Aa3				
07	THR 2, 2WD	0	Ac4				
08	GND		Aa4				
09	OFL	0	Ac5				
10	REW	0	Aa5				
11	FEN	0	Ac6				
12	GND		Aa6				
13	DA 0, W1	0	Ac7				
14	GND		Aa7				
15	DA 1, W1	0	Ac8				
16	REV, W2	0	Aa8				
17	GND		Ac9				
18	WRT, W3	0	Aa9				
19	GND		Ac10				
20	ERASC, W4	0	Aa10				
21	WFM, W5	0	Ac11				
22	ONL	0	Aa11				
23	EDIT, W6	0	Ac12				
24	GND		Aa12				
25	PAR, W7	0	Ac13				
26	FPT	0	Aa13				
27	LDP	0	Ac14				
28	DBY	0	Aa14				
29	GND		Ac15				
30	FBY	0	Aa15				
31	HER	0	Ac16				
32	GND		Aa16				
33	CCG	0	Ac17				
34	GND		Aa17				
35	FMK	0	Ac18				
36	GND		Aa18				
37	CER	0	Ac19				
38	GND		Aa19				
39			Ac20				
40	RDY	0	Aa20				
41	GND		Ac21				
42			Aa21				
43	EOT	0	Ac22				
44			Aa22				
45	GND		Ac23				
46	WSTR	0	Aa23				
47	GND		Ac24				
48	RSTR	0	Aa24				
49	GND		Ac25				
50	R 0	0	Aa25				
51	GND		Ac26				
52	R 1	0	Aa26				
53	GND		Ac27				
54	R 2	0	Aa27				
55	GND		Ac28				
56	R 3	0	Aa28				
57	GND		Ac29				
58	R 4	0	Aa29				
59	GND		Ac30				
60	R 5	0	Aa30				
61	GND		Ac31				
62	R 6	0	Aa31				
63	GND		Ac32				
64	R 7	0	Aa32				

INTERNAL CABLE TYPE : 64 wire flat cable Ref. drawing 9006
EXTERNAL CABLE TYPE 1: Ref drawing 3-9339
EXTERNAL CABLE TYPE 2: Ref drawing 3-9340
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by SEJ	Remarks	Replacement for	Date
Approved	A-CONNECTOR 3006 1:1 with 64 pin flat cable connector in both ends.	3-9312	14.06.79
Date 21.08.79		Replaced by	Date

NORSK DATA A.S	Title BUS ADDRESS (N-10 BUS) INTERNAL CABLE FOR N-100	Drawing No. 3-9313

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2x25 PIN "D" plug connector PIN NO.	DEVICE PLUG PIN NO.		
1	MBA 16	1	c 1	1			
2	MBA 16	0	a 1	14			
3	MBA 17	1	c 2	2			
4	MBA 17	0	a 2	15			
5	MBA 0	1	c 3	3			
6	MBA 0	0	a 3	16			
7	MBA 1	1	c 4	4			
8	MBA 1	0	a 4	17			
9	MBA 2	1	c 5	5			
10	MBA 2	0	a 5	18			
11	MBA 3	1	c 6	6			
12	MBA 3	0	a 6	19			
13	MBA 4	1	c 7	7			
14	MBA 4	0	a 7	20			
15	MBA 5	1	c 8	8			
16	MBA 5	0	a 8	21			
17	MBA 6	1	c 9	9			
18	MBA 6	0	a 9	22			
19	MBA 7	1	c 10	10			
20	MBA 7	0	a 10	23			
21	MBA 8	1	c 11	11			
22	MBA 8	0	a 11	24			
23	MBA 9	1	c 12	12			
24	MBA 9	0	a 12	25			
25	MBA 10	1	c 13	13			
25	MBA 10	0	a 13	1			
27	MBA 11	1	c 14	14			
28	MBA 11	0	a 14	2			
29	MBA 12	1	c 15	15			
30	MBA 12	0	a 15	3			
31	MBA 13	1	c 16	16			
32	MBA 13	0	a 16	4			
33	MBA 14	1	c 17	17			
34	MBA 14	0	a 17	5			
35	MBA 15	1	c 18	18			
36	MBA 15	0	a 18	6			
37	MBA 18	1	c 19	19			
38	MBA 18	0	a 19	7			
39	MBA 19	1	c 20	20			
40	MBA 19	0	a 20	8			
41	MBA 20	1	c 21	21			
42	MBA 20	0	a 21	9			
43	MBA 21	1	c 22	22			
44	MBA 21	0	a 22	10			
45	MBA 22	1	c 23	23			
46	MBA 22	0	a 23	11			
47	MBA 23	1	c 24	24			
48	MBA 23	0	a 24	12			
49			c 25	25			
50			a 25	13			
51			c 26				
52			a 26				
53			c 27				
54			a 27				
55			c 28				
56			a 28				
57	MDB 19	1	c 29				
58	MDB 19	0	a 29				
59	MDB 18	1	c 30			Future extensions	
60	MDB 18	0	a 30				
61	MDB 17	1	c 31				
62	MDB 17	0	a 31				
63	MDB 16	1	c 32				
64	MDB 16	0	a 32				

INTERNAL CABLE TYPE : 50 wire flatcable
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by	Remarks	Replacement for	Date
Approved	A-counter on 3008	Replaced by	Date
Date			

NORSK DATA A.S	Title BUS DATA BUS CONTROL (N-10 BUS) INTERNAL CABLE FOR N-100	Drawing No. 3-9314

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2x37 pin "D" connector PIN NO.	DEVICE PLUG PIN NO.		
1	MBD 0	1	c 1	1			
2	MBD 0	0	a 1	20			
3	MBD 1	1	c 2	2			
4	MBD 1	0	a 2	21			
5	MBD 2	1	c 3	3			
6	MBD 2	0	a 3	22			
7	MBD 3	1	c 4	4			
8	MBD 3	0	a 4	23			
9	MBD 4	1	c 5	5			
10	MBD 4	0	a 5	24			
11	MBD 5	1	c 6	6			
12	MBD 5	0	a 6	25			
13	MBD 6	1	c 7	7			
14	MBD 6	0	a 7	26			
15	MBD 7	1	c 8	8			#1
16	MBD 7	0	a 8	27			
17	MBD 8	1	c 9	9			
18	MBD 8	0	a 9	28			
19	MBD 9	1	c 10	10			
20	MBD 9	0	a 10	29			
21	MBD 10	1	c 11	11			
22	MBD 10	0	a 11	30			
23	MBD 11	1	c 12	12			
24	MBD 11	0	a 12	31			
25	MBD 12	1	c 13	13			
26	MBD 12	0	a 13	32			
27	MBD 13	1	c 14	14			
28	MBD 13	0	a 14	33			
29	MBD 14	1	c 15	15			
30	MBD 14	0	a 15	34			
31	MBD 15	1	c 16	16			
32	MBD 15	0	a 16	35			
33			c 17				
34			a 17				
35			c 18				
36			a 18				
37			c 19				
38			a 19				
39	MINPUT	0	c 20	1			
40	MINPUT	1	a 20	20			
41	MCONNECT	0	c 21	2			
42	MCONNECT	1	a 21	21			
43	MREQ	0	c 22	3			
44	MREQ	1	a 22	22			
45	MINT 15	0	c 23	4			
46	MINT 15	1	a 23	23			
47	MINT 13	0	c 24	5			
48	MINT 13	1	a 24	24			#2
49	MINT 12	0	c 25	6			
50	MINT 12	1	a 25	25			
51	MINT 11	0	c 26	7			
52	MINT 11	1	a 26	26			
53	MINT 10	0	c 27	8			
54	MINT 10	1	a 27	27			
55	IDENTL	1	c 28	9			
56	IDENTL	0	a 28	28			
57	MIOXE	1	c 29	10			
58	MIOXE	0	a 29	29			
59	GRANTL	1	c 30	11			
60	GRANTL	0	a 30	30			
61	MCLL	1	c 31	12			
62	MCLL	0	a 31	31			
63	DRYL	1	c 32	13			
64	DRYL	0	a 32	32			

INTERNAL CABLE TYPE : 64 wire flatcable

EXTERNAL CABLE TYPE 1:

EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Drawn by	Remarks	Replacement for	Date
Approved	B-connector on 3008		
Date		Replaced by	Date

NORSK DATA A.S	Title: MPM DATA + CONTROL INTERNAL CABLE FOR N-100	Drawing No. 3-9315

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 50 pin plug connector PIN NO.	DEVICE PLUG PIN NO.		
1	BDL 15	0	c 1	1			
2	BDL 15	1	a 1	2			
3	BDL 14	0	c 2	3			
4	BDL 14	1	a 2	4			
5	BDL 13	0	c 3	5			
6	BDL 13	1	a 3	6			
7	BDL 12	0	c 4	7			
8	BDL 12	1	a 4	8			
9	BDL 11	0	c 5	9			
10	BDL 11	1	a 5	10			
11	BDL 10	0	c 6	11			
12	BDL 10	1	a 6	12			
13	BDL 9	0	c 7	13			
14	BDL 9	1	a 7	14			
15	BDL 8	0	c 8	15			
16	BDL 8	1	a 8	16			
17	BDL 7	0	c 9	17			
18	BDL 7	1	a 9	18			
19	BDL 6	0	c 10	19			
20	BDL 6	1	a 10	20			
21	BDL 5	0	c 11	21			
22	BDL 5	1	a 11	22			
23	BDL 4	0	c 12	23			
24	BDL 4	1	a 12	24			
25	BDL 3	0	c 13	25			
26	BDL 3	1	a 13	26			
27	BDL 2	0	c 14	27			
28	BDL 2	1	a 14	28			
29	BDL 1	0	c 15	29			
30	BDL 1	1	a 15	30			
31	BDL 0	0	c 16	31			
32	BDL 0	1	a 16	32			
33	BDL 17	0	c 17	33			
34	BDL 17	1	a 17	34			
35	BDL 16	0	c 18	35			
36	BDL 16	1	a 18	36			
37	ARL	0	c 19	37			
38	ARL	1	a 19	38			
39	DRL	0	c 20	39			
40	DRL	1	a 20	40			
41			c 21				
42			a 21				
43			c 22				
44			a 22				
45			c 23				
46			a 23				
47			c 24				
48			a 24				
49			c 25				
50			a 25				
51			c 26				
52			a 26				
53			c 27				
54			a 27				
55			c 28				
56			a 28				
57			c 29				
58			a 29				
59			c 30				
60			a 30				
61			c 31				
62			a 31				
63			c 32				
64			a 32				

INTERNAL CABLE TYPE : 50 wire flatcable
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by: RI/kho	Remarks	Replacement for	Date
Approved	B-connector on 3003	Replaced by	Date
Date: 15.2.79			

NORSK DATA A.S	Title: MPM ADDRESS + CONTROL INTERNAL CABLE FOR N-100	Drawing No. 3-9316

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 50 pin plug connector PIN NO.	DEVICE PLUG PIN NO.		
1	BAL 15	0	c 1	1			
2	BAL 15	1	a 1	2			
3	BAL 14	0	c 2	3			
4	BAL 14	1	a 2	4			
5	BAL 13	0	c 3	5			
6	BAL 13	1	a 3	6			
7	BAL 12	0	c 4	7			
8	BAL 12	1	a 4	8			
9	BAL 11	0	c 5	9			
10	BAL 11	1	a 5	10			
11	BAL 10	0	c 6	11			
12	BAL 10	1	a 6	12			
13	BAL 9	0	c 7	13			
14	BAL 9	1	a 7	14			
15	BAL 8	0	c 8	15			
16	BAL 8	1	a 8	16			
17	BAL 7	0	c 9	17			
18	BAL 7	1	a 9	18			
19	BAL 6	0	c 10	19			
20	BAL 6	1	a 10	20			
21	BAL 5	0	c 11	21			
22	BAL 5	1	a 11	22			
23	BAL 4	0	c 12	23			
24	BAL 4	1	a 12	24			
25	BAL 3	0	c 13	25			
26	BAL 3	1	a 13	26			
27	BAL 2	0	c 14	27			
28	BAL 2	1	a 14	28			
29	BAL 1	0	c 15	29			
30	BAL 1	1	a 15	30			
31	BAL 0	0	c 16	31			
32	BAL 0	1	a 16	32			
33	BAL 17	0	c 17	33			
34	BAL 17	1	a 17	34			
35	BAL 16	0	c 18	35			
36	BAL 16	1	a 18	36			
37	WRITEL	0	c 19	37			
38	WRITEL	1	a 19	38			
39	REQL	0	c 20	39			
40	REQL	1	a 20	40			
41	BAL 18	0	c 21	41			
42	BAL 18	1	a 21	42			
43	BAL 19	0	c 22	43			
44	BAL 19	1	a 22	44			
45	BAL 20	0	c 23	45			
46	BAL 20	1	a 23	46			
47	BAL 21	0	c 24	47			
48	BAL 21	1	a 24	48			
49			c 25	49			
50			a 25	50			
51			c 26				
52			a 26				
53			c 27				
54			a 27				
55			c 28				
56			a 28				
57			c 29				
58			a 29				
59			c 30				
60			a 30				
61			c 31				
62			a 31				
63			c 32				
64			a 32				

INTERNAL CABLE TYPE : 50 wire flatcable
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by	RI/kho	Remarks	Replacement for	Date
Approved		A-connector 3003	Replaced by	Date
Date	15.2.79			

NORSK DATA A.S	Title 4 TERMINAL INTERFACE ASYNCRON MODEM FOR N-100	Drawing No. 3-9317

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL female Ext.Cab. male Cover Harting 25 pin plug PIN NO.	DEVICE PLUG Plug 25 P Cover DB 51-226-1 PIN NO.		
1	CHASSIS		c 1	1	1		
2			a 1	14	14		
3	TXD		c 2	2	2		
4	I1+		a 2	15			
5	RXD		c 3	3	3		
6	I2-		a 3	16			
7	RTS		c 4	4	4	TERMINAL 1	
8	01+		a 4	17			
9	RFS		c 5	5	5		
10	02-		a 5	18			
11	DSR		c 6	6	6		
12			a 6	19	19		
13	GND		c 7	7	7		
14	DTR		a 7	20	20		
15	SIGN. DET.		c 8	8	8		
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	I1+		a 10	15			
21	RXD		c 11	3			
22	I2-		a 11	16			
23	RTS		c 12	4		TERMINAL 2	
24	01+		a 12	17			
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	I1+		a 18	15			
37	RXD		c 19	3			
38	I2-		a 19	16			
39	RTS		c 20	4		TERMINAL 3	
40	01+		a 20	17			
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	I1+		a 26	15			
53	RXD		c 27	3			
54	I2-		a 27	16			
55	RTS		c 28	4		TERMINAL 4	
56	01+		a 28	17			
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 30	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN. DET.		c 32	8			
64			a 32	21			

INTERNAL CABLE TYPE : 64 wire flatcable
EXTERNAL CABLE TYPE 1: 12 pair round cable with screen
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable shield.
In the computer end of the external cable the shield is connected to an earth strap (faston).
Male plug in computer end of cable.

Drawn by	TF	Remarks	Replacement for	Date
Approved		B-connector on 3010		
Date	13.11.79	B & A-connector on 3013	Replaced by	Date

NORSK DATA A.S	Title: 4 TERMINAL INTERFACES FOR N-100	Drawing No. 3-9318

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT.CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	DEVICE PLUG PIN NO.		
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2			
4	I1+		a 2	15			
5	RXD		c 3	3			
6	I2-		a 3	16			
7	RTS		c 4	4		TERMINAL	1
8	01+		a 4	17			
9	RFS		c 5	5			
10	02-		a 5	18			
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7			
14	DTR		a 7	20			
15	SIGN. DET.		c 8	8			
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	I1+		a 10	15			
21	RXD		c 11	3			
22	I2-		a 11	16			
23	RTS		c 12	4		TERMINAL	2
24	01+		a 12	17			
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	I1+		a 18	15			
37	RXD		c 19	3			
38	I2-		a 19	16			
39	RTS		c 20	4		TERMINAL	3
40	01+		a 20	17			
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	I1+		a 26	15			
53	RXD		c 27	3			
54	I2-		a 27	16		TERMINAL	4
55	RTS		c 28	4			
56	01+		a 28	17			
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 30	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN. DET.		c 32	8			
64			a 32	21			

INTERNAL CABLE TYPE : 64 wire flatcable

EXTERNAL CABLE TYPE 1:

EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Drawn by: HO/kha	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date: 26.11.79			

NORSK DATA A.S	Title: 4 TERMINAL INTERFACES FOR N-100 INFOTON DISPLAY	Drawing No. 3-9319

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT.CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	DEVICE PLUG 8-pin BURNDY MALE PIN NO.	INFOTON	
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2			
4	I1+		a 2	15	B	+	
5	RXD		c 3	3			
6	I2-		a 3	16	A	-	
7	RTS		c 4	4		TERMINAL 1	
8	01+		a 4	17	D	20	
9	RFS		c 5	5			
10	02-		a 5	18	C	RET	
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7			
14	DTR		a 7	20			
15	SIGN. DET.		c 8	8			
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	I1+		a 10	15			
21	RXD		c 11	3			
22	I2-		a 11	16			
23	RTS		c 12	4		TERMINAL 2	
24	01+		a 12	17			
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	I1+		a 18	15			
37	RXD		c 19	3			
38	I2-		a 19	16			
39	RTS		c 20	4		TERMINAL 3	
40	01+		a 20	17			
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	I1+		a 26	15			
53	RXD		c 27	3			
54	I2-		a 27	16		TERMINAL 4	
55	RTS		c 28	4			
56	01+		a 28	17			
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 30	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN. DET.		c 32	8			
64			a 32	21			

INTERNAL CABLE TYPE : 64 wire flatcable
EXTERNAL CABLE TYPE 1: 4 pair shielded round cable
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin H in the device plug is connected to cable. shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable

Drawn by	HO/kha	Remarks	Replacement for	Date
Approved			Replaced by	Date
Date	26.11.79			

NORSK DATA A.S	Title: 4 TERMINAL INTERFACES FOR N-100 DECWRITER	Drawing No. 3-9321

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT.CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	DEVICE PLUG MALE 8 pin BURNDY PIN NO.		
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2			
4	I1+		a 2	15	B		
5	RXD		c 3	3			
6	I2-		a 3	16	A		
7	RTS		c 4	4			TERMINAL 1
8	01+		a 4	17	D		
9	RFS		c 5	5			
10	02-		a 5	18	C		
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7			
14	DTR		a 7	20			
15	SIGN. DET.		c 8	8			
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	I1+		a 10	15			
21	RXD		c 11	3			
22	I2-		a 11	16			
23	RTS		c 12	4			TERMINAL 2
24	01+		a 12	17			
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	I1+		a 18	15			
37	RXD		c 19	3			
38	I2-		a 19	16			
39	RTS		c 20	4			TERMINAL 3
40	01+		a 20	17			
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	I1+		a 26	15			
53	RXD		c 27	3			
54	I2-		a 27	16			TERMINAL 4
55	RTS		c 28	4			
56	01+		a 28	17			
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 20	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN.DET.		c 32	8			
64			a 32	21			

INTERNAL CABLE TYPE : 64 wire flatcable
EXTERNAL CABLE TYPE 1: 4 pair shielded round cable
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin H in the device plug is connected to cable. shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable

Drawn by: HO/kha	Remarks	Replacement for	Date
Approved	B-connector on 3010		
Date: 26.11.79	B & A connector on 3013	Replaced by	Date

NORSK DATA A.S	Title: 4 TERMINAL INTERFACES FOR N-100 TANDBERG TDV 2115	Drawing No. 3-9322

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT.CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	DEVICE PLUG EXT.CAB.FEMALE COVER MODEM 25S PLUG PIN NO.		
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2			
4	I1+		a 2	15	23		
5	RXD		c 3	3			
6	I2-		a 3	16	* 24-25		
7	RTS		c 4	4		TERMINAL	1
8	01+		a 4	17	12		
9	RFS		c 5	5			
10	02-		a 5	18	13		
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7			
14	DTR		a 7	20			
15	SIGN. DET.		c 8	8			
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	I1+		a 10	15			
21	RXD		c 11	3			
22	I2-		a 11	16			
23	RTS		c 12	4		TERMINAL	2
24	01+		a 12	17			
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	I1+		a 18	15			
37	RXD		c 19	3			
38	I2-		a 19	16			
39	RTS		c 20	4		TERMINAL	3
40	01+		a 20	17			
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	I1+		a 26	15			
53	RXD		c 27	3			
54	I2-		a 27	16		TERMINAL	4
55	RTS		c 28	4			
56	01+		a 28	17			
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 30	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN. DET.		c 32	8			
64			a 32	21			

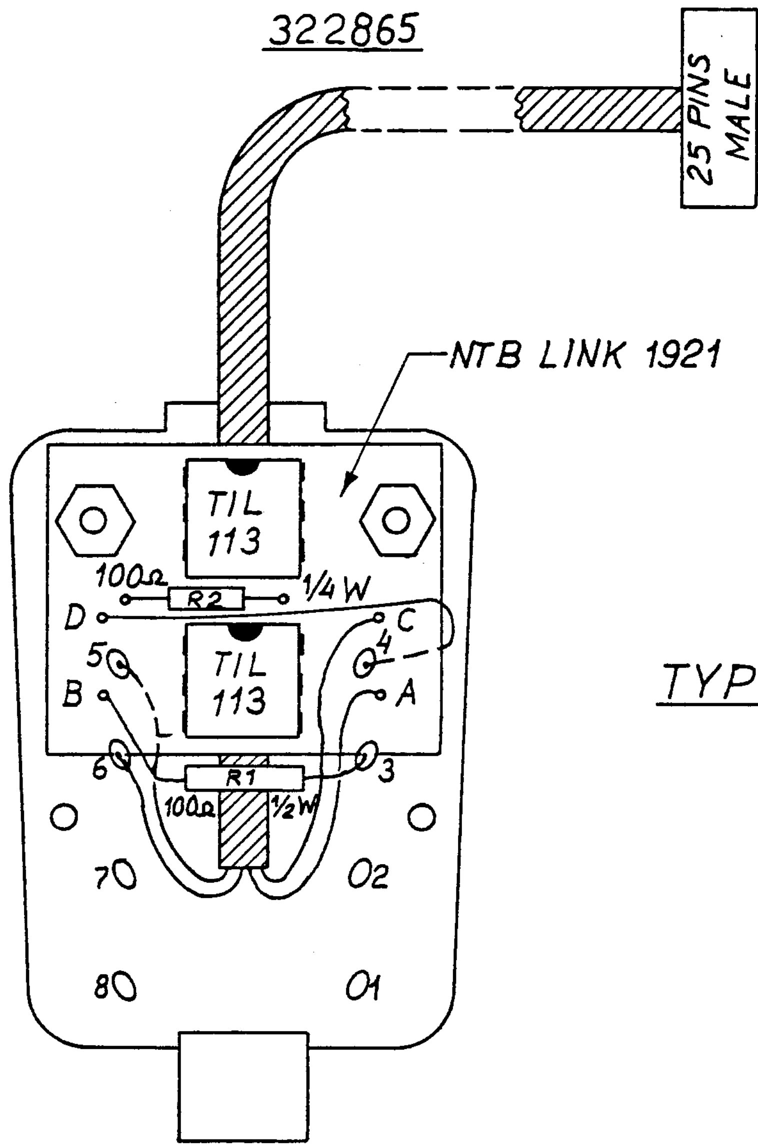
INTERNAL CABLE TYPE : 64 wire flatcable
EXTERNAL CABLE TYPE 1: 4 pair shielded round cable
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable. shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable

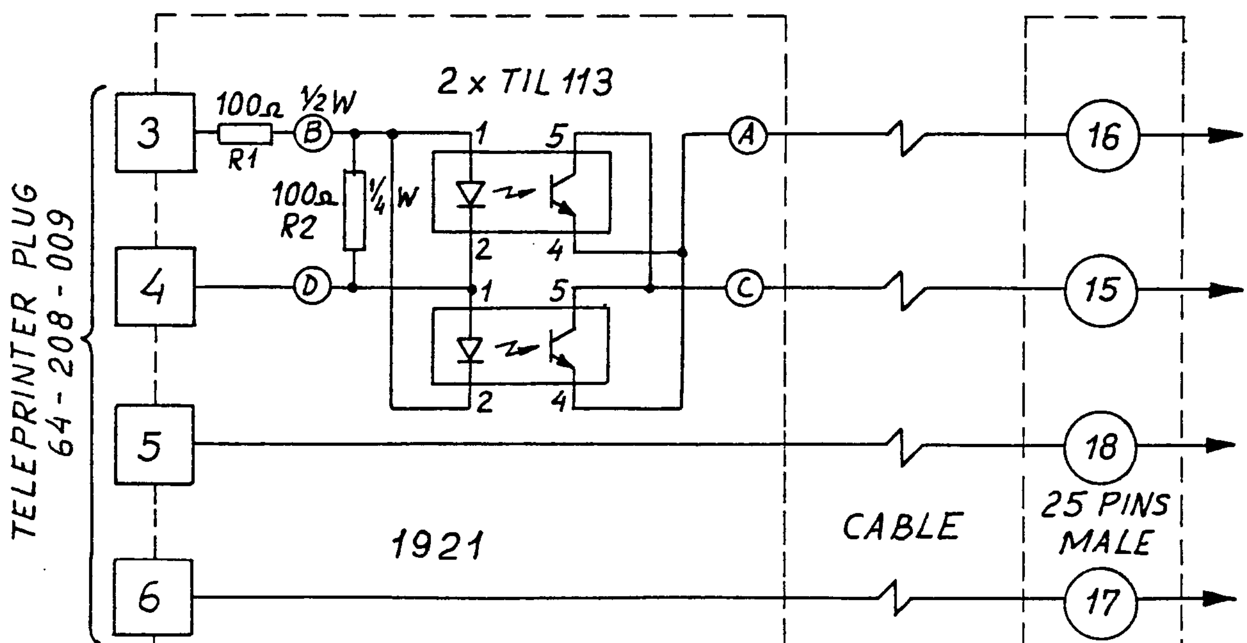
* Strap in external cable.

Drawn by: HO/kha	Remarks: B-connector on 3010 B & A-connector on 3013	Replacement for	Date
Approved		Replaced by	Date
Date: 26.11.79			

NORSK DATA A.S Oslo, Norway	Title NTB TELEPRINTER INTERFACE DEVICE CABLE WITH 3-4 PLUG MODIFIED 3013 CARD	Drawing no. 4-9450



TYPE 2



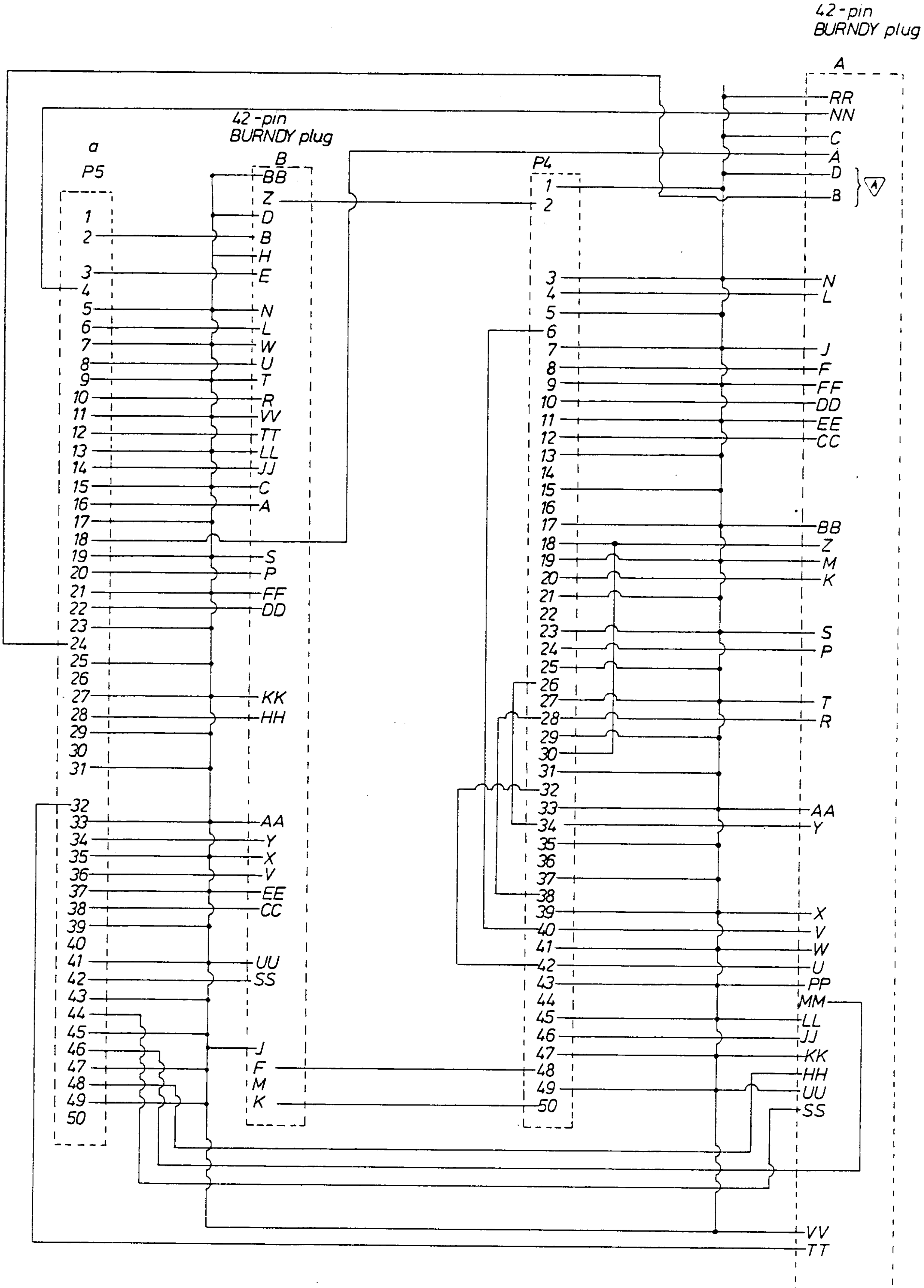
DRAWN BY	MJM	Remarks	Circuit Diagram Arrangement Drawing Cable List	Replacement for	Date
APPROVED BY				Replaced by	Date
DATE	4.9.80.				

NORSK DATA A.S	Title: 10 Mb DISC 3004 INTERNAL CABLE N-100	Drawing No. 3-9323

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL PIN NO.	DEVICE PLUG PIN NO.		
01	GND		c 1				
02	GND		a 1				
03	USB 2	0	c 2				
04			a 2				
05	SEEK ERROR	0	c 3				
06			a 3				
07			c 4				
08			a 4				
09			c 5				
10			a 5				
11	TA 7	0	c 6				
12			a 6				
13	DHS 1	0	c 7				
14	DRITZ	0	a 7				
15	GND		c 8				
16	USB 16	0	a 8				
17	TA 1		c 9				
18	DTAS	0	a 9				
19	TERMON	1	c 10				
20	USB 8	0	a 10				
21	USB 4	0	c 11				
22	FAULT	0	a 11				
23	DWG	0	c 12				
24	TA 8	0	a 12				
25	USB 1	0	c 13				
26	DHS 0	0	a 13				
27	INDEX	0	c 14				
28	TA 4	0	a 14				
29	SECTOR	0	c 15				
30	CREADY	0	a 15				
31	TA 6	0	c 16				
32	GND		a 16				
33	TA 3	0	c 17				
34	WPED	0	a 17				
35	TA 5	0	c 18				
36			a 18				
37	DEG	0	c 19				
38	WP	0	a 19				
39	TA 0		c 20				
40	TA 2	0	a 20				
41	DRG	0	c 21				
42	RRD	0	a 21				
43			c 22				
44	CRC	0	a 22				
45	CEYL	0	c 23				
46	US 1	0	a 23				
47	US 2	0	c 24				
48	US 4	0	a 24				
49	US 3	0	c 25				
50	DWD	0	a 25				
51			c 26				
52			a 26				
53			c 27				
54			a 27				
55			c 28				
56			a 28				
57			c 29				
58			a 29				
59			c 30				
60			a 30				
61			c 31				
62			a 31				
63			c 32				
64			a 32				

INTERNAL CABLE TYPE : 64 wire flat cable Ref. drawing 9005
EXTERNAL CABLE TYPE 1: Ref. drawing 3-9341
EXTERNAL CABLE TYPE 2: Ref. drawing 3-9342
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by: SEJ	Remarks: A-connector 3004 1:1 with 64 pin flat cable connector in both ends.	Replacement for: 3-9323	Date: 15.02.79
Approved:		Replaced by:	Date:
Date: 21.08.79			



corrected MJM 12.3.81.

PERTEC PLUG PANEL, 1980	Board no.	Drawn 15/9/80 AL Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9389-B	

NORSK DATA A.S	Title: Operator Panel Console terminal N-100	Drawing No. 3-9324

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 25 pin + 37 pin "D"-connector PIN NO.	DEVICE PLUG 40 pin select conn. PIN NO.	PANEL DISPLAY PLUG 20 pin HEADER	
1	GND		c 1				
2	GND		a 1				
3	ALD 2		c 2				
4	ALD 3		a 2				
5	ALD 0		c 3				
6	ALD 1		a 3				
7	BS 2		c 4				
8	BS 3		a 4				
9	BS 0		c 5				
10	BS 1		a 5				
11	GND		c 6	1			
12	GND		a 6	14			
13	NC		c 7	2			
14	I1+		a 7	15			
15	NC		c 8	3			
16	I2-		a 8	16			
17	NC		c 9	4			
18	01+		a 9	17			
19	NC		c 10	5			
20	02-		a 10	18			
21	GND		c 11				
22	GND		a 11				
23	SWRST	0	c 12				
24	SWRST	1	a 12				
25	SWSIN	0	c 13				
26	SWSIN	1	a 13				
27	SWCONT	0	a 13				
28	SWCONT	1	a 14				
29	SWLD	0	c 15	37	36		
30	SWLD	1	a 15	18	35		
31	SWMCL	0	c 16	36	34		
32	GND		a 16	17	33		
33	SWSTP	0	c 17	35	32		
34	GND		a 17	16	31		
35	RUN	0	c 18	34	30		
36	GND		a 18	15	29		
37	ENAUTO	0	c 19	33	28		
38	GND		a 19	14	27		
39	LOCK	0	c 20	32	26		
40	GND		a 20	13	25		
41	CONSOLE	0	c 21	31	24		
42	GND		a 21	12	23		
43	+5V	0	c 22	30	22		
44	GND		a 22	11	21 # 2		
45	POWOFF	0	c 23	29	20		
46	GND	0	a 23	10	19		
47	DPO	0	c 24	28	18	3	
48	GND		a 24	9	17	4	
49	DP1	0	c 25	27	16	5	
50	GND		a 25	8	15	6	
51	DP2	0	c 26	26	14	7	# 3
52	GND		a 26	7	13	8	
53	DP3	0	c 27	25	12	9	
54	GND		a 27	6	11	10	
55	DP4	0	c 28	24	10	11	
56	GND		a 28	5	9	12	
57	DP5	0	c 29	23	8	13	
58	GND		a 29	4	7	14	
59	CONSOLE	0	c 30	22	6	15	
60	ON 2	0	a 30	3	5	16	
61	+12V		c 31	21	4	17	
62	+5V		a 31	2	3	18	
63	GND		c 32	20	2	19	
64	GND		a 32	1	1	20	

INTERNAL CABLE TYPE : 64 wire flatcable

EXTERNAL CABLE TYPE 1:

EXTERNAL CABLE TYPE 2: 36 wire flatcable

EXTERNAL CABLE TYPE 3: 20 wire flatcable

EXTERNAL CABLE TYPE 4:

Drawn by	Remarks	Replacement for	Date
Approved	A-connector on 3002	Replaced by	Date
Date			

NORSK DATA A.S	Title: CABLE FOR N-100 AUTOLOAD (322637)	Drawing No. 3-9325

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 25 PIN "D" CONNECTOR PIN NO.	DEVICE PLUG PIN NO.		
01	CLOAD$_O$		c1	1			
02	CND		a1	14			
03			c2	2			
04			a2	15			
05			c3	3			
06			a3	16			
07			c4	4			
08			a4	17			
09			c5	5			
10			a5	18			
11			c6	6			
12			a6	19			
13			c7	7			
14			a7	20			
15			c8	8			
16			a8	21			
17			c9	9			
18			a9	22			
19			c10	10			
20			a10	23			
21			c11	11			
22			a11	24			
23			c12	12			
24			a12	25			
25			c13	13			
26			a13				
27			c14				
28			a14				
29			c15				
30			a15				
31			c16				
32			a16				
33			c17				
34			a17				
35			c18				
36			a18				
37			c19				
38			a19				
39			c20				
40			a20				
41			c21				
42			a21				
43			c22				
44			a22				
45			c23				
46			a23				
47			c24				
48			a24				
49			c25				
50			a25				
51			c26				
52			a26				
53			c27				
54			a27				
55			c28				
56			a28				
57			c29				
58			a29				
59			c30				
60			a30				
61			c31				
62			a31				
63			c32				
64			a32				

INTERNAL CABLE TYPE : 25 wire Flat Cable
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by HO/kha	Remarks	Replacement for	Date
Approved	A-connector 3015	Replaced by	Date
Date 25.6.79			

NORSK DATA A.S	Title: INTERNAL CABLE N-100 HDLC	Drawing No. 3-9326

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2x25 PIN D CONNECTOR PIN NO.	DEVICE PLUG PIN NO.		
01			c1	1			
02			a1	14			
03	TDA		c2	2			
04	TCL		a2	15			
05	RDA		c3	3			
06			a3	16			
07	RTS		c4	4			
08	RCL		a4	17			
09	RFS		c5	5			
10			a5	18			
11	DSR		c6	6			
12			a6	19			
13	GND		c7	7			
14	DTR		a7	20			
15	SD		c8	8			
16			a8	21			
17			c9	9			
18	RI		a9	22			
19			c10	10			
20			a10	23			
21			c11	11			
22			a11	24			
23			c12	12			
24			a12	25			
25			c13	13			
26			a13				
27			c14				
28			a14				
29			c15	1			
30	TB		a15	14			
31	TA		c16	2			
32	TxCB (CB)		a16	15			
33	TxCA (CA)		c17	3			
34	RB		a17	16			
35	RA		c18	4			
36	TxCB (IB)		a18	17			
37	TxCA (IA)		c19	5			
38	RxCB (SA)		a19	18			
39	RxCA (SB)		c20	6			
40			a20	19			
41			c21	7			
42			a21	20			
43			c22	8			
44			a22	21			
45			c23	9			
46	RFS		a23	22			
47	ROTS		c24	10			
48	DSR		a24	23			
49	H		c25	11			
50	SD		a25	24			
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							

INTERNAL CABLE TYPE : 50 wire Flat cable
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by HO/kha	Remarks	Replacement for	Date
Approved	B-connector 3015	Replaced by	Date
Date 25.6.79			

NORSK DATA A.S

Title: FLOPPY DISC CABLE FOR N-100

Drawing No. 3-9327

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2x25 PIN plug connector PIN NO.	DEVICE PLUG 50-pin card-edge conn. PIN NO.
1			c 1	1	1
2			a 1	14	2
3	GND		c 2	2	3
4	LDADR	0	a 2	15	4
5	GND		c 3	3	5
6	LDIFF	0	a 3	16	6
7	GND		c 4	4	7
8	TDIR	0	a 4	17	8
9	GND		c 5	5	9
10	LSECT	0	a 5	18	10
11	GND		c 6	6	11
12	TREQ	0	a 6	19	12
13	GND		c 7	7	13
14	TGRANT	0	a 7	20	14
15	GND		c 8	8	15
16	GSENS	0	a 8	21	16
17	GND		c 9	9	17
18	GSTAT	0	a 9	22	18
19	GND		c 10	10	19
20	DINT	0	a 10	23	20
21	GND		c 11	11	21
22	DBUSY	0	a 11	24	22
23	GND		c 12	12	23
24	LCOM	0	a 12	25	24
25	GND		c 13	13	25
26	TBUSY 0	0	a 13	1	26
27	GND		c 14	14	27
28	TBUSY 1	0	a 14	2	28
29	GND		c 15	15	29
30	TBUSY 2	0	a 15	3	30
31	GND		c 16	16	31
32	TBUSY 3	0	a 16	4	32
33	GND		c 17	17	33
34	TBUSY 4	0	a 17	5	34
35	GND		c 18	18	35
36	TBUSY 5	0	a 18	6	36
37	GND		c 19	19	37
38	TBUSY 6	0	a 19	7	38
39	GND		c 20	20	39
40	TBUSY 7	0	a 20	8	40
41	GND		c 21	21	41
42	RESET	0	a 21	9	42
43	GND		c 22	22	43
44	OPT.INPUT	0	a 22	10	44
45			c 23	23	45
46			a 23	11	46
47			c 24	24	47
48			a 24	12	48
49			c 25	25	49
50			a 25	13	50
51			c 26		
52			a 26		
53			c 27		
54			a 27		
55			c 28		
56			a 28		
57			c 29		
58			a 29		
59			c 30		
60			a 30		
61			c 31		
62			a 31		
63			c 32		
64			a 32		

INTERNAL CABLE TYPE : 50 wire flatcable

EXTERNAL CABLE TYPE 1: 50 wire mantled flatcable

EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Drawn by	RI/kho	Remarks	Replacement for	Date
Approved		A-connector on 3010 / 3014	Replaced by	Date
Date	15.2.79			

NORSK DATA A.S	Title EXTERNAL CABLE N-100 - N-10S HDLC INTERCONNECTION HDLC - HDLC LINK	Drawing No. 3-9328 C

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	DEVICE PLUG DDC 25 P COWER HARTING PIN NO.	DEVICE PLUG BURNDY N-10S PIN NO.		
01				1			
02				14			
03	TDA			2			
04	TCL			15			
05	RDA			3			
06				16			
07	RTS			4			
08	RCL			17			
09	RFS			5			
10				18			
11	DSR			6			
12				19			
13	GND			7			
14	DTR			20			
15	SD			8			
16				21			
17				9			
18	RI			22			
19				10			
20				23			
21				11			
22				24			
23				12			
24				25			
25				13			
26							
27							
28							
29				1			
30	TB			14	C		
31	TA			2	A		
32	TxCB (CB)			15	D		
33	TxCA (CA)			3	B		
34	RB			16	F		
35	RA			4	J		
36	TxCB (IB)			17			
37	TxCA (IA)			5			
38	RxCB (SA)			18	K		
39	RxCB (SB)			6	M	6 7	
40	TxCB			NC	H		
41	TxCA			NC	E		
42				NC			
43	SIGNAL GND			8	W		
44				NC	T		
45				NC	S		
46	RFS			22			
47	ROTS			10			
48	DSR			23			
49	H			11			
50	SD			24			
51							
52							
53					L		
54					N		
55					P		
56							
57							
58							
59							
60							
61							
62							
63							
64							

INTERNAL CABLE TYPE :

EXTERNAL CABLE TYPE 1: 12 pair round cable with screen

EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Shield is connected to an earth strap in both ends of cable.

Drawn by HO/kha	Remarks	Replacement for	Date
Approved	B-connector 3015	Replaced by	Date
Date 13.2.81			

NORSK DATA A.S	Title: EXTERNAL CABLE FOR N-100 HDLC TO MODEM.	Drawing No. 3-9329 B

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	DEVICE PLUG DDC 25 P COWER HARTING PIN NO.	DEVICE PLUG DDC 25 P COWER MODEM PIN NO.		
01				1			
02				14			
03	TDA			2	2		
04	TCL			15	15		
05	RDA			3	3		
06				16			
07	RTS			4	4		
08	RCL			17	17		
09	RFS			5	5	1	
10				18			
11	DSR			6	6		
12				19			
13	GND			7	7		
14	DTR			20	20		
15	SD			8	8		
16				21			
17				9			
18	RI			22	22		
19				10			
20				23			
21				11			
22				24			
23				12			
24				25			
25				13			
26							
27							
28							
29				1			
30	TB			14			
31	TA			2			
32	TxCB (CB)			15			
33	TxCA (CA)			3			
34	RB			16			
35	RA			4			
36	TxCB (IB)			17			
37	TxCA (IA)			5			
38	RxCB (SA)			18			
39	RxCA (SB)			6			
40				19			
41				7			
42				20			
43				8			
44				21			
45				9			
46	RFS			22			
47	ROTS			10			
48	DSR			23			
49	H			11			
50	SD			24			
51				12			
52				25			
53				13			
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							

INTERNAL CABLE TYPE :
EXTERNAL CABLE TYPE 1: 12 pair round cable with screen.
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable shield. In the computer end of the external cable the shield is connected to an earth strap with Faston.

Drawn by	HO/kha	Remarks	Replacement for	Date
Approved		B-connector 3015	Replaced by	Date
Date	13.10.80			

NORSK DATA A.S	Title EXTERNAL CABLE N-100 - N-100 HDLC INTERCONNECTION HDLC - HDLC LINK	Drawing No. 3-9330

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	DEVICE PLUG DDC 25 P COWER HARTING PIN NO.	DEVICE PLUG DDC 25 P COWER HARTING PIN NO.		
01				1			
02				14			
03	TDA			2			
04	TCL			15			
05	RDA			3			
06				16			
07	RTS			4			
08	RCL			17			
09	RFS			5			
10				18			
11	DSR			6			
12				19			
13	GND			7			
14	DTR			20			
15	SD			8			
16				21			
17				9			
18	RI			22			
19				10			
20				23			
21				11			
22				24			
23				12			
24				25			
25				13			
26							
27							
28	TxCB			NC	17		
29	TxCA			NC	5		
30	TB			14	16		
31	TA			2	4		
32	TxCB (CB)			15	18		
33	TxCA (CA)			3	6		
34	RB			16	14		
35	RA			4	2		
36	TxCB (IB)			17	NC		
37	TxCA (IA)			5	NC		
38	RxCB (SA)			18	15		
39	RxCA (SB)			6	3		
40	RFS			NC	22		
41	RQTS			NC	10		
42	DSR			NC	23		
43	H			NC	11		
44	SD			NC	24		
45				NC			
46	RFS			22			
47	RQTS			10			
48	DSR			23			
49	H			11			
50	SD			24			
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							

INTERNAL CABLE TYPE :
EXTERNAL CABLE TYPE 1: 12 pair round cable with screen
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by HO/kha	Remarks	Replacement for	Date
Approved	B-connector 3015	Replaced by	Date
Date 28.6.79			

NORSK DATA A.S	Title INTERNAL CABLE N-100 CAMAC ADDRESS	Drawing No. 3-9331

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2x25 PIN "D" PLUG CONNECTOR PIN NO.	DEVICE PLUG 132 PIN PIN NO.	DEVICE PLUG 88 PIN PIN NO.	
01	MBA 16	1	c 1	1	53		
02	MBA 16	0	a 1	14	70		
03	MBA 17	1	c 2	2	54		
04	MBA 17	0	a 2	15	71		
05	MBA 0	1	c 3	3	18	33	
06	MBA 0	0	a 3	16	37	34	
07	MBA 1	1	c 4	4	19	35	
08	MBA 1	0	a 4	17	38	36	
09	MBA 2	1	c 5	5	20	37	
10	MBA 2	0	a 5	18	39	38	
11	MBA 3	1	c 6	6	21	39	
12	MBA 3	0	a 6	19	40	40	
13	MBA 4	1	c 7	7	22	41	
14	MBA 4	0	a 7	20	58	42	
15	MBA 5	1	c 8	8	42	43	
16	MBA 5	0	a 8	21	59	44	
17	MBA 6	1	c 9	9	43	45	
18	MBA 6	0	a 9	22	60	46	
19	MBA 7	1	c 10	10	44	47	
20	MBA 7	0	a 10	23	61	48	
21	MBA 8	1	c 11	11	45	49	
22	MBA 8	0	a 11	24	62	50	
23	MBA 9	1	c 12	12	46	51	
24	MBA 9	0	a 12	25	63	52	
25	MBA 10	1	c 13	13	47	53	
26	MBA 10	0	a 13	1	64	54	
27	MBA 11	1	c 14	14	48	55	
28	MBA 11	0	a 14	2	65	56	
29	MBA 12	1	c 15	15	49	57	
30	MBA 12	0	a 15	3	66	58	
31	MBA 13	1	c 16	16	50	59	
32	MBA 13	0	a 16	4	67	60	
33	MBA 14	1	c 17	17	51	61	
34	MBA 14	0	a 17	5	68	62	
35	MBA 15	1	c 18	18	52	63	
36	MBA 15	0	a 18	6	69	64	
37	MBA 18	1	c 19	19			
38	MBA 18	0	a 19	7			
39	MBA 19	1	c 20	20			
40	MBA 19	0	a 20	8			
41	MBA 20	1	c 21	21			
42	MBA 20	0	a 21	9			
43	MBA 21	1	c 22	22			
44	MBA 21	0	a 22	10			
45	MBA 22	1	c 23	23			
46	MBA 22	0	a 23	11			
47	MBA 23	1	c 24	24			
48	MBA 23	0	a 24	12			
49			c 25	25			
50			a 25	13			
51			c 26				
52			a 26				
53			c 27				
54			a 27				
55			c 28				
56			a 28				
57	MBA 19	1	c 29				
58	MBA 19	0	a 29				
59	MBA 18	1	c 30				
60	MBA 18	0	a 30		Future extensions		
61	MBA 17	1	c 31				
62	MBA 17	0	a 31				
63	MBA 16	1	c 32				
64	MBA 16	0	a 32				

INTERNAL CABLE TYPE :50 wire Flatcable
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by HO/kha	Remarks A-counter on 3008	Replacement for	Date
Approved		Replaced by	Date
Date 29.6.79			

NORSK DATA A.S	Title: INTERNAL CABLE N-100 CAMAC DATA / CAMAC CONTROL	Drawing No. 3-9332

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2x37 PIN "D" CONNECTOR PIN NO.	DEVICE PLUG 132 PIN PIN NO.	DEVICE PLUG 88 PIN PIN NO.	
01	MBD 0	1	c 1	1	1	1	
02	MBD 0	0	a 1	20	41	2	
03	MBD 1	1	c 2	2	2	3	
04	MBD 1	0	a 2	21	23	4	
05	MBD 2	1	c 3	3	3	5	
06	MBD 2	0	a 3	22	24	6	
07	MBD 3	1	c 4	4	4	7	
08	MBD 3	0	a 4	23	25	8	
09	MBD 4	1	c 5	5	5	9	
10	MBD 4	0	a 5	24	26	10	
11	MBD 5	1	c 6	6	6	11	
12	MBD 5	0	a 6	25	27	12	
13	MBD 6	1	c 7	7	7	13	
14	MBD 6	0	a 7	26	28	14	
15	MBD 7	1	c 8	8	8	15	
16	MBD 7	0	a 8	27	29	16	#1
17	MBD 8	1	c 9	9	9	17	
18	MBD 8	0	a 9	28	30	18	
19	MBD 9	1	c 10	10	10	19	
20	MBD 9	0	a 10	29	31	20	
21	MBD 10	1	c 11	11	12	21	
22	MBD 10	0	a 11	30	11	22	
23	MBD 11	1	c 12	12	13	23	
24	MBD 11	0	a 12	31	32	24	
25	MBD 12	1	c 13	13	14	25	
26	MBD 12	0	a 13	32	33	26	
27	MBD 13	1	c 14	14	15	27	
28	MBD 13	0	a 14	33	34	28	
29	MBD 14	1	c 15	15	16	29	
30	MBD 14	0	a 15	34	35	30	
31	MBD 15	1	c 16	16	17	31	
32	MBD 15	0	a 16	35	36	32	
33			c 17				
34			a 17				
35			c 18				
36			a 18				
37			c 19				
38			a 19				
39	MINPUT	0	c 20	1	94	78	
40	MINPUT	1	a 20	20	77	77	
41	MCONNECT	0	c 21	2	93	72	
42	MCONNECT	1	a 21	21	76	71	
43	MREQ	0	c 22	3	95	74	
44	MREQ	1	a 22	22	78	73	
45	MINT 15	0	c 23	4			
46	MINT 15	1	a 23	23			
47	MINT 13	0	c 24	5	100	86	
48	MINT 13	1	a 24	24	83	85	
49	MINT 12	0	c 25	6	99	84	
50	MINT 12	1	a 25	25	82	83	#2
51	MINT 11	0	c 26	7	98	82	
52	MINT 11	1	a 26	26	81	81	
53	MINT 10	0	c 27	8	97	80	
54	MINT 10	1	a 27	27	80	79	
55	IDENTL	1	c 28	9	56	67	
56	IDENTL	0	a 28	28	73	68	
57	MIOXE	1	c 29	10	55	65	
58	MIOXE	0	a 29	29	72	66	
59	GRANTL	1	c 30	11	57	69	
60	GRANTL	0	a 30	30	74	70	
61	MCLL	1	c 31	12	84	87	
62	MCLL	0	a 31	31	103	88	
63	DRYL	1	c 32	13	79	75	
64	DRYL	0	a 32	32	96	76	

INTERNAL CABLE TYPE : 64 wire Flatcable

#1: Data

#2: Control

Drawn by	HO/kha	Remarks	Replacement for	Date
Approved		B-connector on 3008	Replaced by	Date
Date	29.6.79			

NORSK DATA A.S	Title: EXT. CABLE N-100 TO EPSON PRINTER MX 80	Drawing No. 3-[illegible]35 C

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	EXT. CAB. COVER HARTING 25 PIN PLUG PIN NO.	EPSON DEVICE PLUG DB-25-P COVER MODEM PIN NO.		
01	CHASSIS				1		
02				14			
03	TXD			2	3		
04	11+			15			
05	RXD			3	NC		
06	12-			16			
07	RTS			4	NC		
08	01+			17			
09	RFS			5	20		
10	02-			18			
11	DSR			6	NC		
12				19			
13	GND			7	7		
14	DTR			20 *			
15	SIGN. DET.			8 *			
16				21			
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INTERNAL CABLE :

EXTERNAL CABLE 1: 4 PAIRS SHIELDED ROUND CABLE

EXTERNAL CABLE 2:

EXTERNAL CABLE 3:

EXTERNAL CABLE 4:

Pin 1 in the device plug is connected to cable shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

* Strap in external cable.

Drawn by: HO/ma	Remarks	Replacement for / Date
Approved		Replaced by / Date
Date: 10.11.81		

NORSK DATA A.S	Title	Drawing No.
	PERTEC M-T CONTROLLER EXTERNAL CABLE A	3-9339

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 37 PIN "D" CONNECTOR PIN NO.	DEVICE PLUG 42 PIN BURNDY PIN NO.	M-T ADAPTER BOARD	
01	TAD0	0		1	JJ	A1	
02	GND			20	LL	A2	
03	FAD	0		2	HH	B1	
04	GND			21	KK	B2	
05	TAD1	0		3	MM	B3	
06	GND			22	PP	B2	
07	G0	0		4	F	A3	
08	GND			23	J	A2	
09	THR2, LWD	0		5	L	B9, B13	
10	GND			24	N	B8, B11	
11	OFL	0		6	B	A12	
12	GND			25	D	A11	
13	REW	0		7	K	B12	
14	GND			26	M	B11	
15	FEN	0		8	A	A13	
16	GND			27	C	A14	
17	DAO,W0	0		9	DD	B16	
18	GND			28	FF	B17	
19	DA1,W1	0		10	CC	A16	
20	GND			29	EE	A17	
21	REV, W2	0		11	Z	B4, B18	
22	GND			30	BB	B5, B17	
23	WRT, W3	0		12	Y	A4, A18	
24	GND			31	AA	A5, A17	
25	ERASC, W4	0		13	V	B7, B19	
26	GND			32	X	B8, B20	
27	WFM, W5	0		14	U	B6, A19	
28	GND			33	W	B5, A20	
29	ONL	0		15	SS	A27	
30	GND			34	UU	A26	
31	EDIT, W6	0		16	R	A6, B21	
32	GND			35	T	A5, B20	
33	PAR, W7	0		17	P	B10,A21	
34	GND			36	S	B11,A20	
35	FPT	0		18	TT	A28	
36	GND			37	VV	A29	
37	LDP	0		19	NN	B30	
38	GND			37	RR	B32	
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INTERNAL CABLE TYPE : Ref. drawing 3-9312
EXTERNAL CABLE TYPE 1: Ref. drawing 3-9340
EXTERNAL CABLE TYPE 2: Shield 19 twisted pairs
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by	SEJ	Remarks	Replacement for	Date
Approved		MTA-CABLE N-100 Shield to be inconnected in both ends.	3-9312	14.06.79
Date	21.08.79		Replaced by	Date

NORSK DATA A.S	Title: PERTEC M-T CONTROLLER EXTERNAL CABLE B	Drawing No. 3-9340

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 37 PIN "D" CONNECTOR PIN NO.	DEVICE PLUG 42 PIN BURNDY PIN NO.	M-T ADAPTER BOARD	
01	DBY	0		1	CC	A22	
02	GND			20	EE	A23	
03	FBY	0		2	Z	B22	
04	GND			21	BB	B23	
05	HER	0		3	TT	A24	
06	GND			22	VV	A23	
07	CCG	0		4	A	B24	
08	GND			23	C	B23	
09	FMK	0		5	JJ	A25	
10	GND			24	LL	A26	
11	CER	0		6	SS	B25	
12	GND			25	UU	B26	
13	RDY	0		7	HH	B27	
14	GND			26	KK	B26	
15	EOT	0		8	DD	A30	
16	GND			27	FF	A32	
17	WSTR	0		9	V	A34	
18	GND			28	X	A35	
19	RSTR	0		10	Y	B36	
20	GND			29	AA	B35	
21	R 0	0		11	B	B37	
22	GND			30	D	B38	
23	R 1	0		12	E	A37	
24	GND			31	H	A38	
25	R 2	0		13	F	B39	
26	GND			32	J	B38	
27	R 3	0		14	K	A39	
28	GND			33	M	A38	
29	R 4	0		15	L	B40	
30	GND			34	N	B41	
31	R 5	0		16	P	A40	
32	GND			35	S	A41	
33	R 6	0		17	R	B42	
34	GND			36	T	B41	
35	R 7	0		18	U	A42	
36	GND			37	W	A41	
37				19			
38							
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INTERNAL CABLE TYPE : Ref. drawing 3-9312
EXTERNAL CABLE TYPE 1: Shielded 18 twisted pairs
EXTERNAL CABLE TYPE 2: Ref. drawing 3-0339
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by	SEJ	Remarks	Replacement for	Date
Approved		MTB-CABLE N-100 Shield to be connected in both ends.	3-9312	14.06.79
Date	21.08.79		Replaced by	Date

NORSK DATA A.S	Title: N-100 10 Mb DISC EXTERNAL CABLE A *	Drawing No. 3-9341

WIRE NO.	SIGNAL	POLARITY	PLUGPANEL 37 PIN "D" CONNECTOR PIN NO.	DEVICE PLUG ELCO 8016 090 PIN NO.			
01	GND		1	N			
02	GND		20	CM			
03	USB2	0	2	CD			
04	GND		21	BK			
05	SEEK ERROR	0	3	BJ			
06	GND		22	S			
07	TA7	0	4	T			
08	GND		23	AF			
09	DHS 1	0	5	AE			
10	GND		24	AB			
11	DRT7	0	6	AA			
12	GND		25	CU			
13	USB16	0	7	CL			
14	GND		26	F			
15	TA1	0	8	E			
16	GND		27	B			
17	DTAS	0	9	A			
18	GND		28	CX			
19	TERMON	1	10	CW			
20	GND		29	CS			
21	USB8	0	11	CR			
22	GND		30	CP			
23	USB4	0	12	CN			
24	GND		31	BH			
25	FAULT	0	13	BB			
26	GND		32	AN			
27	DWG	0	14	AM			
28	GND		33	X			
29	TAB	0	15	R			
30	GND		34	CK			
31	USB1	0	16	CJ			
32	GND		35	AD			
33	DHSO	0	17	AC			
34	GND		36	BP			
35	INDEX	0	18	BF			
36	GND		37	N			
37	TA4	0	19	M			
38							
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INTERNAL CABLE TYPE : Ref. drawing 3-9323

EXTERNAL CABLE TYPE 1: Shielded 18 twisted pairs

EXTERNAL CABLE TYPE 2: Ref. drawing 3-9342

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

* 10 MB DISC EXTERNAL CABLE A&B TO BE CONNECTED IN SAME ELCO HOUSING.

Drawn by	SEJ	Remarks	Replacement for	Date
Approved		DA-CABLE SHIELD TO BE CONNEDTED IN BOTH ENDS.	Replaced by	Date
Date	21.08.79			

NORSK DATA A.S	Title N-100 10 Mb DISC EXTERNAL CABLE B *	Drawing No. 3-9342

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 37 PIN "D" CONNECTOR PIN.NO.	DEVICE PLUG ELO 8916 090 PIN NO.		
01	SECTOR	0		1	BL		
02	GND			20	BM		
03	CREADY	0		2	AX		
04	GND			21	BC		
05	TA6	0		3	V		
06	GND			22	U		
07	TA3	0		4	K		
08	GND			23	L		
09	WPED	0		5	AK		
10	GND			24	AL		
11	TA5	0		6	P		
12	GND			25	W		
13	DEG	0		7	AP		
14	GND			26	AR		
15	WP	0		8	AH		
16	GND			27	AJ		
17	7AO	0		9	C		
18	GND			28	D		
19	TA2	0		10	H		
20	GND			29	J		
21	DRG	0		11	AV		
22	GND			30	AW		
23	RRD	0		12	AU		
24	GND			31	AY		
25	CRC	0		13	AZ		
26	GND			32	BA		
27	CEYL	0		14	BD		
28	GND			33	BE		
29	US1	0		15	BR		
30	GND			34	BX		
31	US2	0		16	BN		
32	GND			35	BV		
33	US4	0		17	BS		
34	GND			36	BY		
35	US3	0		18	BU		
36	GND			37	BT		
37	DWD	0		19	AS		
38	GND			37	AT		
39							
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INTERNAL CABLE TYPE : Ref. drawing 3-9323
EXTERNAL CABLE TYPE 1: Ref. drawing 3-9341
EXTERNAL CABLE TYPE 2: Shielded 19 twisted pairs
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

* 10 Mb DISC EXTERNAL CABLE A&B TO BE CONNEDTED IN SAME ELCO HOUSING

Drawn by SEJ	Remarks	Replacement for	Date
Approved	DB-CABLE		
Date 21.08.79	SHIELD TO BE CONNECTED IN BOTH ENDS	Replaced by	Date

NORSK DATA A.S	Title: EXTERNAL CABLE FOR N-100 DIRECT RS 232C FOR TDV 21/2215	Drawing No. 3-9343 B

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT.CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	DEVICE PLUG 25 S MODEM COVER PIN NO.		
01	CHASSIS			1			
02				* 14, 19			
03	TXD			2	3		
04	11+			15			
05	RXD			3	2		
06	12-			16			
07	RTS			4	8		
08	01+			17			
09	RFS			* 5, 6	20, 6		
10	02-			18			
11	DSR			* 6, 5			
12				* 19, 14			
13	GND			7	7		
14	DTR			20			
15	SIGN, DET.			8	4, 5		
16				21			
17	CHASSIS						
18							
19							
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INTERNAL CABLE TYPE :
EXTERNAL CABLE TYPE 1: 4 pair shielded round cable
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable. shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable

* Strap in external cable.

Drawn by	HO/kha	Remarks	Replacement for	Date
Approved		SHIELDED CONNECTOR IN COMPUTER END	Replaced by	Date
Date	26.11.79			

NORSK DATA A.S	Title: EXTERNAL FLOPPY DISC CABLE FOR N-100	Drawing No. 3-9352 B

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2x25 D-CONNECTOR PIN NO.	DEVICE PLUG 42 PINS BURNDY PIN NO.		
01			c1	1			
02			a1	14			
03	GND		c2	2	X		
04	LDADR	0	a2	15	V		
05	GND		c3	3	VV		
06	LDIFF	0	a3	16	TT		
07	GND		c4	4	AA		
08	TDIR	0	a4	17	Y		
09	GND		c5	5	UU		
10	LSECT	0	a5	18	SS		
11	GND		c6	6	BB		
12	TREQ	0	a6	19	Z		
13	GND		c7	7	KK		
14	TGRANT	0	a7	20	HH		
15	GND		c8	8	LL		
16	GSENS	0	a8	21	JJ		
17	GND		c9	9	PP		
18	GSTAT	0	a9	22	MM		
19	GND		c10	10	EE		
20	DINT	0	a10	23	CC		
21	GND		c11	11	FF		
22	DBUSY	0	a11	24	DD		
23	GND		c12	12	RR		
24	LCOM	0	a12	25	NN		
25	GND		c13	13	S		
26	TBUSY 0	0	a13	1	P		
27	GND		c14	14	T		
28	TBUSY 1	0	a14	2	R		
29	GND		c15	15	M		
30	TBUSY 2	0	a15	3	K		
31	GND		c16	16	N		
32	TBUSY 3	0	a16	4	L		
33	GND		c17	17	H		
34	TBUSY 4	0	a17	5	E		
35	GND		c18	18	J		
36	TBUSY 5	0	a18	6	F		
37	GND		c19	19	C		
38	TBUSY 6	0	a19	7	A		
39	GND		c20	20	D		
40	TBUSY 7	0	a20	8	B		
41	GND		c21	21	W		
42	RESET	0	a21	9	U		
43	GND		c22	22			
44	OPT.INPUT	0	a22	10			
45			c23	23			
46			a23	11			
47			c24	24			
48			a24	12			
49			c25	25			
50			a25	13			
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64							

INTERNAL CABLE TYPE : 50 wire flat cable

EXTERNAL CABLE TYPE 1: 20 pairs twisted with shield

EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Drawn by: SEJ	Remarks	Replacement for	Date
Approved	A-CONNECTOR ON 3010	Replaced by	Date
Date: 21.05.80			

NORSK DATA A.S	Title: 4 TERMINAL INTERFACES FOR N-100 TALLY 1612 FOR N-100	Drawing No. 3-9365

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT. CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	DEVICE PLUG EXT.CAB. FEMALE COVER MODEM 25S PIN NO.		
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2	3		
4	I1+		a 2	15			
5	RXD		c 3	3	2		
6	I2-		a 3	16			
7	RTS		c 4	4	5, 6		
8	01+		a 4	17			
9	RFS		c 5	5	19		
10	02-		a 5	18			
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7	7		
14	DTR		a 7	* 20, 8			
15	SIGN. DET.		c 8	* 8, 20			
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	I1+		a 10	15			
21	RXD		c 11	3			
22	I2-		a 11	16			
23	RTS		c 12	4			
24	01+		a 12	17			
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	I1+		a 18	15			
37	RXD		c 19	3			
38	I2-		a 19	16			
39	RTS		c 20	4			
40	01+		a 20	17			
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	I1+		a 26	15			
53	RXD		c 27	3			
54	I2-		a 27	16			
55	RTS		c 28	4			
56	01+		a 28	17			
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 30	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN. DET.		c 32	8			
64			a 32	21			

INTERNAL CABLE TYPE : 64 wire flat cable
EXTERNAL CABLE TYPE 1: 4 pair round cable with screen
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable shiel.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

* Strap in external cable.

Drawn by	Remarks	Replacement for	Date
Approved	B-connector on 3010		
Date	B & A-connector on 3013	Replaced by	Date

NORSK DATA A.S	Title 4 TERMINAL INTERFACES FOR N-100 TERMINET 340 FOR N-100	Drawing No. 3-9366

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT. CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	DEVICE PLUG EXT.CAB. MALE COVER MODEM PLUG 25P PIN NO.		
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2	2		
4	I1+		a 2	15			
5	RXD		c 3	3			
6	I2-		a 3	16			
7	RTS		c 4	4			
8	01+		a 4	17			
9	RFS		c 5	5	15		
10	02-		a 5	18			
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7	7		
14	DTR		a 7	* 20, 8			
15	SIGN. DET.		c 8	* 8, 20			
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	I1+		a 10	15			
21	RXD		c 11	3			
22	I2-		a 11	16			
23	RTS		c 12	4			
24	01+		a 12	17			
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	I1+		a 18	15			
37	RXD		c 19	3			
38	I2-		a 19	16			
39	RTS		c 20	4			
40	01+		a 20	17			
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	I1+		a 26	15			
53	RXD		c 27	3			
54	I2-		a 27	16			
55	RTS		c 28	4			
56	01+		a 28	17			
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 30	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN. DET.		c 32	8			
64			a 32	21			

INTERNAL CABLE TYPE : 64 wire flat cable
EXTERNAL CABLE TYPE 1: 4 pair round cable with screen
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable shiel.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

* Strap in external cable.

Drawn by	Remarks	Replacement for	Date
Approved	B-connector on 3010		
Date	B & A-connector on 3013	Replaced by	Date

NORSK DATA A.S	Title EXTERNAL CABLE FOR N-100 TDV 2000 CURRENT LOOP	Drawing No. 3-9367

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	COMPUTER END PLUG 25 PIN COVER HARTING PIN NO.	DEVICE PLUG PIN 25 S COVER MODEM PIN NO.		
01	CHASSIS			1			
02				* 14, 19			
03	TXD			2			
04	11+			15	1		
05	RXD			3			
06	12-			16	17		
07	RTS			4			
08	01+			17	2		
09	RFS			5			
10	02-			18	15		
11	DSR			6			
12				* 19, 14			
13	GND			7			
14	DTR			20			
15	SIGN, DET.			8			
16				21			
17							
18							
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64							

INTERNAL CABLE TYPE :

EXTERNAL CABLE TYPE : 4 pair shielded round cable

Strap in device plug:

3 - 12 - 25
5 - 6 - 22
21 - 24

Pin 20 in the device plug is connected to cable. shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable

* Strap in external cable.

Drawn by TF/ho	Remarks	Replacement for	Date
Approved	SHIELDED CONNECTOR IN COMPUTER END	Replaced by	Date
Date 13.12.79			

NORSK DATA A.S	Title: SMD CONTROL 3019 A-CONNECTOR A-CABLE (SMR + SMT) FOR NORD-100	Drawing No.: 3-9370

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL 2 x 37 S PIN NO. SMT	PLUG PANEL 2 x 37 S PIN NO. SMR	EXT. CABLE 2 x 37 P COVER HARTING PIN NO. SMT	EXT. CABLE 2 x 37 P COVER HARTING PIN NO. SMR	DEVICE PLUG AMP PLUG (75 PIN) MALE PIN NO	DEVICE PLUG FLAT CABLE ON THE DISC PIN NO.
01	GROUND NOT USED		ac 1						
02	GROUND NOT USED		aa 1						
03	TAG 1	0	ac 2	1		1		46	1
04	TAG 1	1	aa 2	20		20		49	31
05	TAG 2	0	ac 3	2		2		48	2
06	TAG 2	1	aa 3	21		21		51	32
07	TAG 3	0	ac 4	3		3		52	3
08	TAG 3	1	aa 4	22		22		55	33
09	B0L	0	ac 5	4		4		23	4
10	B0L	1	aa 5	23		23		26	34
11	B1L	0	ac 6	5		5		24	5
12	B1L	1	aa 6	24		24		27	35
13	B2L	0	ac 7	6		6		28	6
14	B2L	1	aa 7	25		25		31	36
15	B3L	0	ac 8	7		7		29	7
16	B3L	1	aa 8	26		26		32	37
17	B4L	0	ac 9	8		8		30	8
18	B4L	1	aa 9	27		27		33	38
19	B5L	0	ac 10	9		9		34	9
20	B5L	1	aa 10	28		28		37	39
21	B6L	0	ac 11	10		10		35	10
22	B6L	1	aa 11	29		29		38	40
23	B7L	0	ac 12	11		11		36	11
24	B7L	1	aa 12	30		30		39	41
25	B8L	0	ac 13	12		12		40	12
26	B8L	1	aa 13	31		31		43	42
27	B9L	0	ac 14	13		13		41	13
28	B9L	1	aa 14	32		32		44	43
29	OPENCL	0	ac 15	14		14		16	14
30	OPENCL	1	aa 15	33		33		20	44
31	FAULTL	0	ac 16		1		1	11	15
32	FAULTL	1	aa 16		20		20	14	45
33	SEEKERL	0	ac 17		2		2	75	16
34	SEEKERL	1	aa 17		21		21	78	46
35	ONCYLL	0	ac 18		3		3	15	17
36	ONCYLL	1	aa 18		22		22	18	47
37			ac 19		4				18
38			aa 19		23				48
39	READYL	0	ac 20		5		5	17	19
40	READYL	1	aa 20		24		24	21	49
41			ac 21		6				20
42			aa 21		25				50
43	BUSYL	0	ac 22		7				21
44	BUSYL	1	aa 22		26				51
45	USTL	0	ac 23		8		8	22	22
46	USTL	1	aa 23		27		27	25	52
47	US0L	0	ac 24		9		9	1	23
48	US0L	1	aa 24		28		28	4	53
49	US1L	0	ac 25		10		10	2	24
50	US1L	1	aa 25		29		29	5	54
51			ac 26		11				25
52			aa 26		30				55
53	US2L	0	ac 27		12		12	3	26
54	US2L	1	aa 27		31		31	7	56
55	US3L	0	ac 28		13		13	8	27
56	US3L	1	aa 28		32		32	12	57
57	WPROTL	0	ac 29		14				28
58	WPROTL	1	aa 29		33				58
59	PICK	0	ac 30		15		15	73	29
60	HOLD	0	aa 30		34		34	76	59
61			ac 31						30
62			aa 31						60
63	GROUND NOT USED		ac 32						
64	GROUND NOT USED		aa 32						

INTERNAL CABLE TYPE : 60 WIRE FLAT CABLE

EXTERNAL CABLE TYPE 1: 21 PAIR ROUND CABLE WITH SCREEN

EXTERNAL CABLE TYPE 2: 12 PAIR ROUND CABLE WITH SCREEN

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Each screen is connected to ground in each end with a 6,3 mm AMP faston (Total 4 peaces AMP faston).

Drawn by: HO/kah	Remarks	Replacement for	Date
Approved	See drawing no. 3-9368	Replaced by	Date
Date: 15.01.80			

NORSK DATA A.S	Title: N-100 INTERNAL CABLE SMD DATA 3018 A-CONNECTOR B-CABLE UNIT 0 (SMC 0) B-CABLE UNIT 1 (SMC 1)	Drawing No. 3-9371

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2 x 37 S PIN NO. SMC 0	SMC 1	DEVICE PLUG PIN NO.		
01	GROUND NOT USED		ac 1					
02	GROUND NOT USED		aa 1					
03	GROUND		ac 2	1				
04	SERCL		aa 2	20				
05	SERCL		ac 3	2				
06	GROUND		aa 3	21				
07	RDDL		ac 4	3				
08	RDDL		aa 4	22				
09	GROUND		ac 5	4				
10	RCL		aa 5	23				
11	RCL		ac 6	5				
12	GROUND		aa 6	24				
13	WRCL		ac 7	6				
14	WRCL		aa 7	25				
15	GROUND		ac 8	7				
16	WDL		aa 8	26				
17	WDL		ac 9	8				
18	GROUND		aa 9	27				
19	USL		ac 10	9				
20	USL		aa 10	28				
21	SEEKEL		ac 11	10				
22	SEEKEL		aa 11	29				
23	GROUND		ac 12	11				
24	INDEX		aa 12	30				
25	INDEX		ac 13	12				
26	GROUND		aa 13	31				
27	SECTOR		ac 14	13				
28	SECTOR		aa 14	32				
29	GROUND		ac 15		1			
30	SERCL		aa 15		20			
31	SERCL		ac 16		2			
32	GROUND		aa 16		21			
33	RDDL		ac 17		3			
34	RDDL		aa 17		22			
35	GROUND		ac 18		4			
36	RCL		aa 18		23			
37	RCL		ac 19		5			
38	GROUND		aa 19		24			
39	WRCL		ac 20		6			
40	WRCL		aa 20		25			
41	GROUND		ac 21		7			
42	WDL		aa 21		26			
43	WDL		ac 22		8			
44	GROUND		aa 22		27			
45	USL		ac 23		9			
46	USL		aa 23		28			
47	SEEKEL		ac 24		10			
48	SEEKEL		aa 24		29			
49	GROUND		ac 25		11			
50	INDEX		aa 25		30			
51	INDEX		ac 26		12			
52	GROUND		aa 26		31			
53	SECTOR		ac 27		13			
54	SECTOR		aa 27		32			
55			ac 28					
56			aa 28					
57			ac 29					
58	NOT USED		aa 29					
59			ac 30					
60			aa 30					
61			ac 31					
62			aa 31					
63	GROUND		ac 32					
64	GROUND		aa 32					

INTERNAL CABLE TYPE : 54 WIRE FLAT CABLE
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by: HO/kha	Remarks: See drawing no. 3-9374	Replacement for	Date
Approved		Replaced by	Date
Date: 14.01.80			

NORSK DATA A.S	Title: N-100 INTERNAL CABLE SMD CONTROL 3018 B-CONNECTOR B-CABLE UNIT (SMC 2) & CARD COMMUNICATION CABLE	Drawing No. 3-9372

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 37 S PIN NO.			
01	GROUND NOT USED		bc 1				
02	GROUND NOT USED		ba 1				
03	GROUND		bc 2	1			
04	SERCL	1	ba 2	20			
05	SERCL	0	bc 3	2			
06	GROUND		ba 3	21			
07	RDDL	0	bc 4	3			
08	RDDL	1	ba 4	22			
09	GROUND		bc 5	4			
10	RCL	1	ba 5	23			
11	RCL	0	bc 6	5			
12	GROUND		ba 6	24			
13	WRCL	0	bc 7	6			
14	WRCL	1	ba 7	25			
15	GROUND		bc 8	7			
16	WDL	1	ba 8	26			
17	WDL	0	bc 9	8			
18	GROUND		ba 9	27			
19	USL	1	bc 10	9			
20	USL	0	ba 10	28			
21	SEEKEL	0	bc 11	10			
22	SEEKEL	1	ba 11	29			
23	GROUND		bc 12	11			
24	INDEX	1	ba 12	30			
25	INDEX	0	bc 13	12			
26	GROUND		ba 13	31			
27	SECTOR	0	bc 14	13			
28	SECTOR	1	ba 14	32			
29			bc 15				
30			ba 15				
31			bc 16				
32			ba 16				
33			bc 17				
34			ba 17				
35			bc 18				
36			ba 18				
37			bc 19				
38			ba 19	CARD			
39			bc 20	COMMUN.			
40			ba 20				
41			bc 21	TO CORRESP.			
42			ba 21	PINS ON			
43			bc 22	CARD 3019			
44			ba 22				
45			bc 23				
46			ba 23				
47			bc 24				
48			ba 24				
49			bc 25				
50			ba 25				
51			bc 26				
52			ba 26				
53			bc 27				
54			ba 27				
55			bc 28				
56			ba 28				
57			bc 29				
58			ba 29				
59			bc 30				
60			ba 30				
61			bc 31				
62			ba 31				
63	GROUND		bc 32				
64	GROUND		ba 32				

INTERNAL CABLE TYPE : 26 wire flat cable
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE YYPE 4:

Drawn by HO/kha	Remarks	Replacement for	Date
Approved	SEE DRAWING 3-9369	Replaced by	Date
Date 14.01.80			

NORSK DATA A.S	Title: N-100 INTERNAL CABLE SMD DATA 3019 B-CONNECTOR A-CABLE UNIT 3 (SMC 3) & CARD COMMUNICATION CABLE	Drawing No. 3-9373

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL 37 S "D" FEMALE PIN NO.			
01	GROUND NOT USED		bc 1				
02	GROUND NOT USED		ba 1				
03	GROUND		bc 2	1			
04	SERCL	1	ba 2	20			
05	SERCL	0	bc 3	2			
06	GROUND		ba 3	21			
07	RDDL	0	bc 4	3			
08	RDDL	1	ba 4	22			
09	GROUND		bc 5	4			
10	RCL	1	ba 5	23			
11	RCL	0	bc 6	5			
12	GROUND		ba 6	24			
13	WRCL	0	bc 7	6			
14	WRCL	1	ba 7	25			
15	GROUND		bc 8	7			
16	WDL	1	ba 8	26			
17	WDL	0	bc 9	8			
18	GROUND		ba 9	27			
19	USL	1	bc 10	9			
20	USL	0	ba 10	28			
21	SEEKEL	0	bc 11	10			
22	SEEKEL	1	ba 11	29			
23	GROUND		bc 12	11			
24	INDEX	1	ba 12	30			
25	INDEX	0	bc 13	12			
26	GROUND		ba 13	31			
27	SECTOR	0	bc 14	13			
28	SECTOR	1	ba 14	32			
29			bc 15				
30			ba 15				
31			bc 16				
32			ba 16				
33			bc 17				
34			ba 17				
35			bc 18				
36			ba 18				
37			bc 19				
38			ba 19				
39			bc 20	CARD			
40			ba 20	COMMUN.			
41			bc 21				
42			ba 21	TO CORRESP.			
43			bc 22	PINS ON			
44			ba 22	CARD 3018			
45			bc 23				
46			ba 23				
47			bc 24				
48			ba 24				
49			bc 25				
50			ba 25				
51			bc 26				
52			ba 26				
53			bc 27				
54			ba 27				
55			bc 28				
56			ba 28				
57			bc 29				
58			ba 29				
59			bc 30				
60			ba 30				
61			bc 31				
62			ba 31				
63	GROUND		bc 32				
64	GROUND		ba 32				

INTERNAL CABLE TYPE : 26 wire flat cable.
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by	Remarks	Replacement for	Date
HO/kha	SEE DRAWING NO. 3-9369		
Approved		Replaced by	Date
Date 14.01.80			

NORSK DATA A.S	Title: EXTERNAL CABLE N-100 SMC	Drawing No. 3-9375

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL PIN NO.	EXT. CABLE PLUG 37 P COVER HARTING PIN NO.	DEVICE PLUG AMP 38 PIN PIN NO.	CABLE TYPE
01	GROUND NOT USED						
02	GROUND NOT USED						
03	GROUND				Screen	K	
04	SERCL	1			20	N	
05	SERCL	0			2	M	
06	GROUND				Screen	T	
07	RDDL	0			3	U	
08	RDDL	1			22	V	
09	GROUND				Screen	Y	KOAX
10	RCL	1			23	X	
11	RCL	0			5	W	
12	GROUND				Screen	E	
13	WRCL	0			6	H	
14	WRCL	1			25	J	
15	GROUND				Screen	D	
16	WDL	1			26	B	
17	WDL	0			8	A	
18	GROUND						
19	USL	1			9	BB	
20	USL	0			28	DD	
21	SEEKEL	0			10	AA	
22	SEEKEL	1			29	CC	
23	GROUND						TWISTED
24	INDEX	1			30	HH	PAIR
25	INDEX	0			12	EE	
26	GROUND						
27	SECTOR	0			13	FF	
28	SECTOR	1			32	JJ	
29							
30							
31							
32							
33							
34							
35							
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61							
62							
63	GROUND						
64	GROUND						

The external cable consists of 5 pieces of koaxial cable and 4 twisted pairs.

Screens marked K, T, Y, E, D in the computer end of the cable are connected together with one AMP faston and grounded on plugpanel chassis.

Drawn by: HO/kha	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date: 14.01.80			

NORSK DATA A.S	Title: INTERNAL CABLE "B" FOR PHOENIX DISC MOUNTED IN NORD-100 CABINET	Drawing No. 3-9376

WIRE NO.	SIGNAL	POLARITY	PLUG BERG 65043-024 (26 PIN)		PLUG AMP (A-MP201357-1) P 72-52		
01	WDL	1	20		B		
02	WDL	0	8		A		
03	WRCL	1	19		J		
04	WRCL	0	6		H		
05	SERCL	1	14		N		
06	SERCL	0	2		M		
07	RDDL	1	16		V		
08	RDDL	0	3		U		
09	RCL	1	17		X		
10	RCL	0	5		W		
11	SEEKEL	1	23		CC		
12	SEEKEL	0	10		AA		
13	USL	1	9		BB		
14	USL	0	22		DD		
15	SECTL	1	26		FF		
16	SECTL	0	13		JJ		
17	INDEXL	1	24		EE		
18	INDEXL	0	12		HH		
19	GND		1		D		
20	GND		4		E		
21	GND		7		K		
22	GND		11		T		
23	GND		15		Y		
24	GND		18		NOT USED		
25	GND		21		NOT USED		
26	GND		25		NOT USED		
27							
28							
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INTERNAL CABLE TYPE : 26 wire twist and flat
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by: HO/kha	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date: 16.01.80			

NORSK DATA A.S	Title: INTERNAL CABLE "A" FOR PHOENIX DISC MOUNTED IN NORD-100 CABINET	Drawing No. 3-9377

WIRE NO.	SIGNAL	POLARITY	PLUG BERG 65043-007 (60 PIN)		PLUG AMP (A-MP 201310-1) P 73-26		
01	TAG1L	1	31		49		
02	TAG1L	0	1		46		
03	TAG2L	1	32		51		
04	TAG2L	0	2		48		
05	TAG3L	1	33		55		
06	TAG3L	0	3		52		
07	B0L	1	34		26		
08	B0L	0	4		23		
09	B1L	1	35		27		
10	B1L	0	5		24		
11	B2L	1	36		31		
12	B2L	0	6		28		
13	B3L	1	37		32		
14	B3L	0	7		29		
15	B4L	1	38		33		
16	B4L	0	8		30		
17	B5L	1	39		37		
18	B5L	0	9		34		
19	B6L	1	40		38		
20	B6L	0	10		35		
21	B7L	1	41		39		
22	B7L	0	11		36		
23	B8L	1	42		43		
24	B8L	0	12		40		
25	B9L	1	43		44		
26	B9L	0	13		41		
27	OPENCL	1	44		20		
28	OPENCL	0	14		16		
29	FAULTL	1	45		14		
30	FAULTL	0	15		11		
31	SEEKERL	1	46		78		
32	SEEKERL	0	16		75		
33	ONCYLL	1	47		18		
34	ONCYLL	0	17		15		
35	INDEX	1	48		SPARE		
36	INDEX	0	18		SPARE		
37	READYL	1	49		21		
38	READYL	0	19		17		
39	ADR M FOUND	1	50		SPARE		
40	ADR M FOUND	0	20		SPARE		
41	NOT USED	1	51		SPARE		
42	NOT USED	0	21		SPARE		
43	SUSL	1	52		25		
44	SUSL	0	22		22		
45	US0L	1	53		04		
46	US0L	0	23		01		
47	US1L	1	54		05		
48	US1L	0	24		02		
49	SEKTOR	1	55		SPARE		
50	SEKTOR	0	25		SPARE		
51	US2L	1	56		07		
52	US2L	0	26		03		
53	US3L	1	57		12		
54	US3L	0	27		08		
55	WRITE PROTECT	1	58		SPARE		
56	WRITE PROTECT	0	28		SPARE		
57	POW S P	1	29		SPARE		
58		0					
59	POW S H	1	59		SPARE		
60		0					
61	NOT USED	1	60		SPARE		
62	NOT USED	0	30		SPARE		
63							
64							

INTERNAL CABLE TYPE : 60 wire twist and flat
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by HO/kha	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 16.01.80			

NORSK DATA A.S	Title: EXTERNAL & INTERNAL CABLE FOR N-100 STC MAGTAPE CONTROLLER TO STC MAGTAPE FORMATTER	Drawing No. 3-9379C

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 2x37 PIN D-CONN. IN N100 PIN NO.	DEVICE PLUG 2x37 PIN D-CONNECTOR IN TAPE CAB. PIN NO.	DEVICE PLUG PLUG PANEL IN TAPE FORMATTER	
1	ERRMX-P	0	bc 1	P3- 1	P3- 1	B4-A01	
2	GND		ba 1	P3-20	P3-20	B4-B01	
3	ERRMX-0	0	bc 2	P3- 2	P3- 2	B4-A02	
4	GND		ba 2	P3-21	P3-21	B4-B02	
5	ERRMX-1	0	bc 3	P3- 3	P3- 3	B4-A03	
6	GND		ba 3	P3-22	P3-22	B4-B03	
7	ERRMX-2	0	bc 4	P3- 4	P3- 4	B4-A04	
8	GND		ba 4	P3-23	P3-23	B4-B04	
9	ERRMX-3	0	bc 5	P3- 5	P3- 5	B4-A05	
10	GND		ba 5	P3-24	P3-24	B4-B05	
11	ERRMX-4	0	bc 6	P3- 6	P3- 6	B4-A06	
12	GND		ba 6	P3-25	P3-25	B4-B06	
13	ERRMX-5	0	bc 7	P3- 7	P3- 7	B4-A07	
14	GND		ba 7	P3-26	P3-26	B4-B07	
15	ERRMX-6	0	bc 8	P3- 8	P3- 8	B4-A08	
16	GND		ba 8	P3-27	P3-27	B4-B08	
17	ERRMX-7	0	bc 9	P3- 9	P3- 9	B4-A09	
18	GND		ba 9	P3-28	P3-28	B4-B09	
19	BUSY	0	bc 10	P3-10	P3-10	B4-A10	
20	GND		ba 10	P3-29	P3-29	B4-B10	
21	TREQ	0	bc 11	P3-11	P3-11	B4-A11	
22	GND		ba 11	P3-30	P3-30	B4-B11	
23	RECV	0	bc 12	P3-12	P3-12	B4-A12	
24	GND		ba 12	P3-31	P3-31	B4-B12	
25	ID-BRST	0	bc 13	P3-13	P3-13	B4-A13	
26	GND		ba 13	P3-32	P3-32	B4-B13	
27	OPINC	0	bc 14	P3-14	P3-14	B4-A14	
28	GND		ba 14	P3-33	P3-33	B4-B14	
29	ENDATP	0	bc 15	P3-15	P3-15	B4-A15	
30	GND		ba 15	P3-34	P3-34	B4-B15	
31	TMS	0	bc 16	P3-16	P3-16	B4-A16	
32	GND		ba 16	P3-35	P3-35	B4-B16	
33	REJECT	0	bc 17	P3-17	P3-17	B4-A17	
34	GND		ba 17	P3-36	P3-36	B4-B17	
35	OVRNS	0	bc 18	P3-18	P3-18	B4-A18	
36	GND		ba 18	P3-37	P3-37	B4-B18	
37	DATA CHK	0	bc 19	P4- 1	P4- 1	B4-A19	
38	GND		ba 19	P4-20	P4-20	B4-B19	
39	ROMPS	0	bc 20	P4- 2	P4- 2	B4-A20	
40	GND		ba 20	P4-21	P4-21	B4-B20	
41	CRERR	0	bc 21	P4- 3	P4- 3	B4-A21	
42	GND		ba 21	P4-22	P4-22	B4-B21	
43	BLOCK	0	bc 22	P4- 4	P4- 4	B4-A22	
44	GND		ba 22	P4-23	P4-23	B4-B22	
45	NRZI	0	bc 23	P4- 5	P4- 5	B4-A23	
46	GND		ba 23	P4-24	P4-24	B4-B23	
47	BUPER	0	bc 24	P4- 6	P4- 6	B4-A24	
48	GND		ba 24	P4-25	P4-25	B4-B24	
49	ONLS	0	bc 25	P4- 7	P4- 7	B4-A25	
50	GND		ba 25	P4-26	P4-26	B4-B25	
51	HDENS	0	bc 26	P4- 8	P4- 8	B4-A26	
52	GND		ba 26	P4-27	P4-27	B4-B26	
53	RDYS	0	bc 27	P4- 9	P4- 9	B4-A27	
54	GND		ba 27	P4-28	P4-28	B4-B27	
55	WRTS	0	bc 28	P4-10	P4-10	B4-A28	
56	GND		ba 28	P4-29	P4-29	B4-B28	
57							
58							
59				EXTERNAL			
60				CABLE			
61							
62				⟵⟶			
63							
64							

INTERNAL CABLE TYPE : Spectra-strip Twist'n flat 455-248-60
EXTERNAL CABLE TYPE 1:
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3: " " " " " " " " } length max. 3 m
EXTERNAL CABLE TYPE 4 " " " " " " " "

Drawn by PHE /kha	Remarks	Replacement for	Date
Approved	Total length of all three cables max. 20 feet	Replaced by	Date
Date 21.8.80			

NORSK DATA A.S	Title: EXTERNAL & INTERNAL CABLE FOR N-100 STC MAGTAPE CONTROLLER TO STC MAGTAPE FORMATTER	Drawing No. 3-9380 C

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL 2x37 PIN D-CONNCTOR PIN NO.	DEVICE PLUG ND PLUG PAN. 2x37 PIN PIN NO.	DEVICE PLUG PLUG PANEL IN TAPE FORMATTER	
01	AD0	0	ac 01	P1- 1	P1- 1	A4-A01	
02	GND		aa 01	P1-20	P1-20	A4-B01	
03	AD1	0	ac 02	P1- 2	P1- 2	A4-A02	
04	GND		aa 02	P1-21	P1-21	A4-B02	
05	CMD0	0	ac 03	P1- 3	P1- 3	A4-A03	
06	GND		aa 03	P1-22	P1-22	A4-B03	
07	CMD1	0	ac 04	P1- 4	P1- 4	A4-A04	
08	GND		aa 04	P1-23	P1-23	A4-B04	
09	CMD2	0	ac 05	P1- 5	P1- 5	A4-A05	
10	GND		aa 05	P1-24	P1-24	A4-B05	
11	CMD3	0	ac 06	P1- 6	P1- 6	A4-A06	
12	GND		aa 06	P1-25	P1-25	A4-B06	
13	DSO	0	ac 07	P1- 7	P1- 7	A4-A07	
14	GND		aa 07	P1-26	P1-26	A4-B07	
15	START	0	ac 08	P1- 8	P1- 8	A4-A08	
16	GND		aa 08	P1-27	P1-27	A4-B08	
17	STOP	0	ac 09	P1- 9	P1- 9	A4-A09	
18	GND		aa 09	P1-28	P1-28	A4-B09	
19	TRAK	0	ac 10	P1-10	P1-10	A4-A10	
20	GND		aa 10	P1-29	P1-29	A4-B10	
21	DAT-P	0	ac 11	P1-11	P1-11	A4-A11	
22	GND		aa 11	P1-30	P1-30	A4-B11	
23	DATA-0	0	ac 12	P1-12	P1-12	A4-A12	
24	GND		aa 12	P1-31	P1-31	A4-B12	
25	DATA-1	0	ac 13	P1-13	P1-13	A4-A13	
26	GND		aa 13	P1-32	P1-32	A4-B13	
27	DATA-2	0	ac 14	P1-14	P1-14	A4-A14	
28	GND		aa 14	P1-33	P1-33	A4-B14	
29	DATA-3	0	ac 15	P1-15	P1-15	A4-A15	
30	GND		aa 15	P1-34	P1-34	A4-B15	
31	DATA-4	0	ac 16	P1-16	P1-16	A4-A16	
32	GND		aa 16	P1-35	P1-35	A4-B16	
33	DATA-5	0	ac 17	P1-17	P1-17	A4-A17	
34	GND		aa 17	P1-36	P1-36	A4-B17	
35	DATA-6	0	ac 18	P1-18	P1-18	A4-A18	
36	GND		aa 18	P1-37	P1-37	A4-B18	
37	DATA-7	0	ac 19	P2- 1	P2- 1	A4-A19	
38	GND		aa 19	P2-20	P2-20	A4-B19	
39	RESET	0	ac 20	P2- 2	P2- 2	A4-A20	
40	GND		aa 20	P2-21	P2-21	A4-B20	
41	MUX0	0	ac 21	P2- 3	P2- 3	A4-A21	
42	GND		aa 21	P2-22	P2-22	A4-B21	
43	MUX1	0	ac 22	P2- 4	P2- 4	A4-A22	
44	GND		aa 22	P2-23	P2-23	A4-B22	
45	DS1	0	ac 23	P2- 5	P2- 5	A4-A23	
46	GND		aa 23	P2-24	P2-24	A4-B23	
47	MUX2	0	ac 24	P2- 6	P2- 6	A4-A24	
48	GND		aa 24	P2-25	P2-25	A4-B24	
49	SSC	0	ac 25	P2- 7	P2- 7	A4-A25	
50	GND		aa 25	P2-26	P2-26	A4-B25	
51	OSC[illegible]	0	ac 26	P2- 8	P2- 8	A4-A26	
52	GND		aa 26	P2-27	P2-27	A4-B26	
53	EOTS	0	ac 27	P2- 9	P2- 9	A4-A27	
54	GND		aa 27	P2-28	P2-28	A4-B27	
55	BOTS	0	ac 28	P2-10	P2-10	A4-A28	
56	GND		aa 28	P2-29	P2-29	A4-B28	
57	FPTS	0	ac 29	P2-11	P2-11	A4-A29	
58	GND		aa 29	P2-30	P2-30	A4-B29	
59	REWS	0	ac 30	P2-12	P2-12	A4-A30	
60	GND		aa 30	P2-31	P2-31	A4-B30	
61				←	→		
62				EXTERNAL			
63				CABLE			
64							

EXTERNAL CABLE TYPE : SPECTRA STRIP TWIST'N FLAT 455-248-60
EXTERNAL CABLE TYPE 1: " " " " " " " " "
EXTERNAL CABLE TYPE 2: " " " " " " " " " } Max lenght 3 m
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Drawn by: ~~PHE~~/kha	Remarks: Total length of all three cables max. 20 feet.	Replacement for	Date
Approved		Replaced by	Date
Date: 21.8.80			

NORSK DATA A.S	Title: 4 TERMINAL INTERFACES FOR N-100 Cable between N-100 and KM-ID RS 232/C	Drawing No. 3-9381B

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT. CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	KM-ID EXT:CAB.MALE 25 pin CHANNON		
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2	2		
4	I1+		a 2	15			
5	RXD		c 3	3	3		
6	12-		a 3	16			
7	RTS		c 4	4			
8	01+		a 4	17		1	
9	RFS		c 5	5	8		
10	02-		a 5	18			
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7	7		
14	DTR		a 7	20	20		
15	SIGN. DET.		c 8	8	6		
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	11+		a 10	15			
21	RXD		c 11	3			
22	12-		a 11	16			
23	RTS		c 12	4			
24	01+		a 12	17			
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	11+		a 18	15			
37	RXD		c 19	3			
38	12-		a 19	16			
39	RTS		c 20	4			
40	01+		a 20	17			
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	I1+		a 26	15			
53	RXD		c 27	3			
54	12-		a 27	16			
55	RTS		c 28	4			
56	01+		a 28	17			
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 30	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN. DET.		c 32	8			
64			a 32	21			

INTERNAL CABLE TYPE : 64 wire flat cable
EXTERNAL CABLE TYPE 1: 4 pair round cable
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable shiel.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

Drawn by: HO/kha	Remarks: B-connector on 3010 B & A-connector on 3013	Replacement for	Date
Approved		Replaced by	Date
Date			

NORSK DATA A.S	Title CABLE: KM-ID - TALLY 1612	Drawing No. 3-9383

WIRE NO.	KM-ID SIGNAL NAME		KM-ID DB-25-P		TALLY 1612 DB-25-S			
01								
02	TXD	←	2					
03								
04	RXD	→	3	→	3	R. DATA		
05								
06	RTS	←	4					
07								
08	CTS	→	5		5	CTS		
09								
10	DSR	→	6	→	6	DSR		
11								
12	GND	—	7	—	7	GND		
13								
14	RLSD	→	8					
15								
16	DTR	←	20	←	11	SEC RTS		
17								
18	DTB	←	18					
19								
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NB! Shield connected to pin 1 in both plugs.

Cable type: 4 pair cable with Screen

Drawn by HO/kha	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 21.8.80			

NORSK DATA A.S	Title: CABLE: KM-ID - TERMINET 340	Drawing No. 3-9384 B

WIRE NO.	KM-ID SIGNAL NAME	MODEM COVER KM-ID DB-25-P		HARTING COVER TERMINET 340 DB-25-P	TERMINET SIGNAL NAME		
01							
02	TXD ←	2					
03							
04	RXD →	3	→	2	R.DATA		
05							
06	RTS ←	4					
07							
08	CTS →	5					
09							
10	DSR →	6					
11							
12	GND —	7	—	7	GND		
13							
14	RLSD →	8					
15							
16	DTR ←	20	←	15	BUSY		
17							
18	DTB ←	18					
19							
20							
21							
22							
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64							

NB! Shield connected to pin 1 in both plugs

Cable type: 4 pair with Screen

Drawn by: HO/kha	Remarks	Replacement for	Date
Approved		Replaced by	Date

NORSK DATA A.S	Title: TRANSMISSION LINE CABLE BETWEEN NORD KM-1D AND DEVICE KM-1D VIA TELEX PLUG OR 8 PIN BURNDY PLUG	Drawing No. 3-9385 C

WIRE NO.	KM-ID SIGNAL NAME	NORD KM-1D SCREW TERMINALS AMP PINS	TELEX PLUG MALE PIN NO.	CROSS COUPLING BOX 8-PIN BURNDY MALE	TELEX PLUG MALE PIN NO.	DEVICE KM-1D SCREW TERMINALS	COLOUR CODE
01	RECEIVER	1	1	A	1	5	BROWN
02	RECEIVER	2	2	B	2	6	BLACK
03	TRANSMITTER	5	4	C	4	1	GREEN
04	TRANSMITTER	6	3	D	3	2	BLACK
05							
06							
07							
08							
09							
10							
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Cable type: 4 pair round with Screen
Shield connected to pin H 8 pins Burndy male
and Pin 6 in Telex plug Male

Drawn by: HO/ma	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date: 24.9.81			

NORSK DATA A.S	Title CABLE BETWEEN KM-ID AND TELEX PLUG	Drawing No. 3-9386

WIRE NO.	KM-ID SIGNAL NAME	KM-ID SCREW TERMINALS AMP PINS		TELEX PLUG MALE	COLOUR CODE		
01	RECEIVER	1		3	BROWN		
02	RECEIVER	2		4	BLACK		
03	TRANSMITTER	5		1	GREEN		
04	TRANSMITTER	6		2	BLACK		
05							
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Cable type: 4 pair cable with Screen.
Shield is open

Drawn by HO/kha	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 21.8. 80			

NORSK DATA A.S	Title: INTERNAL - EXTERNAL CABLE N- 500 - N - 100 1/0	Drawing No. 3 - 9387

WIRE NO.	SIGNAL	POLARITY	EUROPLUG IN N - 500 RACK PIN NO.	PLUGPANEL 2x37 PIN D. CON. IN N - 500 PIN. NO.	PLUGPANEL 2x37 PIN D. CON. IN N - 100 PIN. NO.	EUROPLUG IN N - 100 BackWIRING
01	GROUND		Cc 1	1	1	Ac 1
02	GROUND		Ca 1	20	20	Aa 1
03	DBU 0	0	Cc 2	2	2	Ac 2
04	DBU 0	1	Ca 2	21	21	Aa 2
05	DBU 1	0	Cc 3	3	3	Ac 3
06	DBU 1	1	Ca 3	22	22	Aa 3
07	DBU 2	0	Cc 4	4	4	Ac 4
08	DBU 2	1	Ca 4	23	23	Aa 4
09	DBU 3	0	Cc 5	5	5	Ac 5
10	DBU 3	1	Ca 5	24	24	Aa 5
11	DBU 4	0	Cc 6	6	6	Ac 6
12	DBU 4	1	Ca 6	25	25	Aa 6
13	DBU 5	0	Cc 7	7	7	Ac 7
14	DBU 5	1	Ca 7	26	26	Aa 7
15	DBU 6	0	Cc 8	8	8	Ac 8
16	DBU 6	1	Ca 8	27	27	Aa 8
17	DBU 7	0	Cc 9	9	9	Ac 9
18	DBU 7	1	Ca 9	28	28	Aa 9
19	DBU 8	0	Cc 10	10	10	Ac 10
20	DBU 8	1	Ca 10	29	29	Aa 10
21	DBU 9	0	Cc 11	11	11	Ac 11
22	DBU 9	1	Ca 11	30	30	Aa 11
23	DBU 10	0	Cc 12	12	12	Ac 12
24	DBU 10	1	Ca 12	31	31	Aa 12
25	DBU 11	0	Cc 13	13	13	Ac 13
26	DBU 11	1	Ca 13	32	32	Aa 33
27	DBU 12	0	Cc 14	14	14	Ac 14
28	DBU 12	1	Ca 14	33	33	Aa 14
29	DBU 13	0	Cc 15	15	15	Ac 15
30	DBU 13	[illegible]	Ca 15	34	34	Aa 15
31	DBU 14	0	Cc 16	16	16	Ac 16
32	DBU 14	1	Ca 16	35	35	Aa 16
33	DBU 15	0	Cc 17	1	1	Ac 17
34	DBU 15	1	Ca 17	20	20	Aa 17
35	TIN 0	0	Cc 18	2	2	Ac 18
36	TIN 0	1	Ca 18	21	21	Aa 18
37	TIN 1	0	Cc 19	3	3	Ac 19
38	TIN 1	1	Ca 19	22	22	Aa 19
39	TIN 2	0	Cc 20	4	4	Ac 20
40	TIN 2	1	Ca 20	23	23	Aa 20
41	TIN 3	0	Cc 21	5	5	Ac 21
42	TIN 3	1	Ca 21	24	24	Aa 21
43	TIN 4	0	Cc 22	6	6	Ac 22
44	TIN 4	1	Ca 22	25	25	Aa 22
45	UNLOCK	0	Cc 23	7	7	Ac 23
46	UNLOCK	1	Ca 23	26	26	Aa 23
47	PWR. FAIL	0	Cc 24	8	8	Ac 24
48	PWR. FAIL	1	Ca 24	27	27	Aa 24
49	MSTR. CL	0	Cc 25	9	9	Ac 25
50	MSTR. CL	1	Ca 25	28	28	Aa 25
51	RETAG	0	Cc 26	10	10	Ac 26
52	RETAG	1	Ca 26	29	29	Aa 26
53	DATA IN	0	Cc 27	11	11	Ac 27
54	DATA IN	1	Ca 27	30	30	Aa 27
55	SPARE		Cc 28	12	12	Ac 28
56	SPARE		Ca 28	31	31	Aa 28
57	ACTIVATE	0	Cc 29	13	13	Ac 29
58	ACTIVATE	1	Ca 29	32	32	Aa 29
59	STOP	0	Cc 30	14	14	Ac 30
60	STOP	1	Ca 30	33	33	Aa 30
61	DATA OUT	0	Cc 31	15	15	Ac 31
62	DATA OUT	1	Ca 31	34	34	Aa 31
63	GROUND		Cc 32	16	16	Ac 32
64	GROUND		Ca 32	35	35	Aa 32

INTERNAL CABLE TYPE: 64 wire flat cable
EXTERNAL CABLE TYPE 1: 64 Wire flat cable
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

External cable ⟷

Drawn by HO/ma	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 21.8.80			

NORSK DATA A.S	Title: EXTERNAL CABLE N - 100 - N - 100 MEGALINK INTERCONNECTION	Drawing No. 3 - 9388
		327 866

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	DEVICE PLUG DDC 25 P COVER HARTING PIN NO.	DEVICE PLUG DDC 25 P COVER HARTING PIN NO.		
01							
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25							
26							
27							
28	TxCB			NC			
29	TxCA			NC			
30	TB			14	16		
31	TA			2	4		
32	TxCB (CB)			15	18		
33	TxCA (CA)			3	6		
34	RB			16	14		
35	RA			4	2		
36	TxCB (I[illegible]			17	7		
37	TxCA (L[illegible]			5	19		
38	RxCB (S[illegible]			18	15		
39	RxCA (SB)			6	3		
40	RB			19	5		
41	RA			7	17		
42							
43	GND			8	8		
44	HIGH						
45							
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INTERNAL CABLE TYPE:

EXTERNAL CABLE TYPE 1: 12 pair round cable with screen

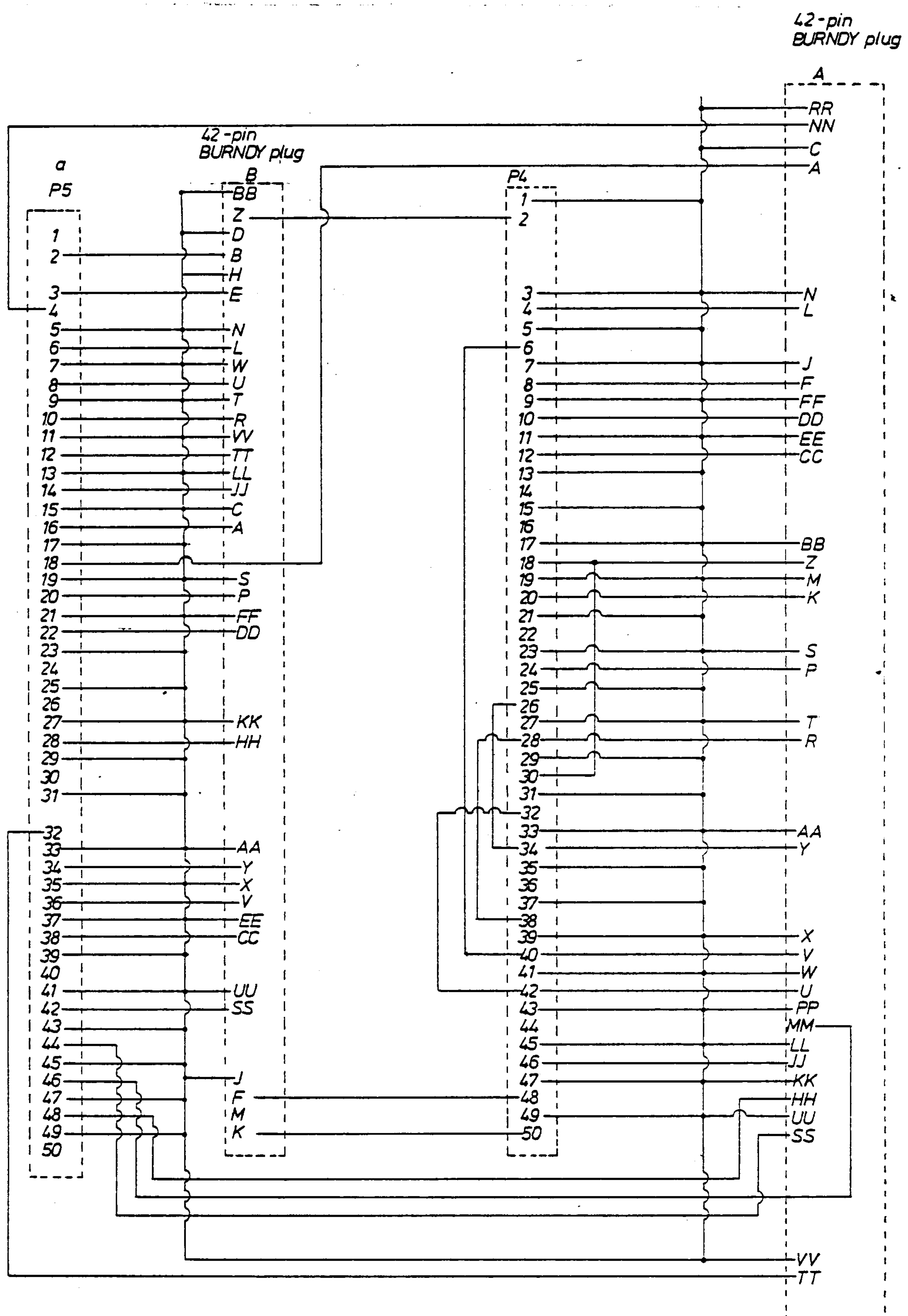
EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

In the both end of external cable are shield connected to an earth strap with faston.

Drawn by: HO/ma	Remarks	Replacement for	Date
Approved	B - CONNECTOR 3015	Replaced by	Date
Date: 2.9.80			



PERTEC PLUG PANEL, 1980	Board no.	Drawn 15/8 AL.
		Contr.
		Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9389	
	Replaced by	

NORSK DATA A.S	Title FROM N - 100 TO ND 845 FOR EQUIPMENT THAT NEED UP TO 16 SIGNALS	Drawing No. 3 - 9390

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	COMPUTER END EXT. CABLE MALE COWER HARTING 25 P	DEVICE PLUG HARTING COWER 25 P MALE PIN NO.		
01	CHASSIS			1	1		
02				14	14		
03	TXD			2	2		
04	I1+			15	15		
05	RXD			3	3		
06	I2-			16	16		
07	RTS			4	4		
08	o1+			17	17		
09	RFS			5	5		
10	02+			18	18		
11	DSR			6	6		
12				19	19		
13	GND			7	7		
14	DTR			20	20		
15	sign. DET			8	8		
16				21	21		
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INTERNAL CABLE TYPE:
EXTERNAL CABLE TYPE 1: 12 PAIR SHIELDED ROUND CABLE
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

IN BOTH END OF EXTERNAL CABLE IS SHIELD CONNECTED TO AN EARTH STRAP WITH FASTON

Drawn by NJN/ma	Remarks	Replacement for	Date
Approved	DEVICE = ND 845	Replaced by	Date
Date 6.10.80			

NORSK DATA A.S	Title: EXTERNAL CABLE FROM MULTISWITCH TO SYNC MODEM	Drawing No. 3 - 9391

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO	PLUGPANEL MULTISWITCH 25 P COWER HARTING PIN NO	DEVICE PLUG 25 P COWER HARTING PIN NO.		
01	TRANSMITTED DATA			1	2		
02	GROUND			14	7		
03	RATE SELECTOR			2	23		
04	REQUEST TO SEND			15	4		
05	CONNECT D.S. TO LINE			3	20		
06	DATA SET READY			16	6		
07	READY FOR SENDING			4	5		
08	SIGNAL DIRECTOR			17	8		
09	RECEIVED DATA			5	3		
10	GROUND			18	7		
11	CALLING INDICATOR			6	22		
12	GROUND			19	7		
13	TRANSM. TIMING			7	15		
14	GROUND			20	7		
15	RECEIVER TIMING			8	17		
16	GROUND			21	7		
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INTERNAL CABLE TYPE:

EXTERNAL CABLE TYPE 1: 12 PAIR SHIELDED ROUND CABLE.

EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable shield. In the multisw. end of the external cable the shield is connected to an earth strap with Faston.

Drawn by: NJN/ma	Remarks	Replacement for	Date
Approved	MULTISWITCH = ND 845	Replaced by	Date
Date: 6.10.80			

NORSK DATA A.S	Title FROM N - 10 to ND 845 1:1 For equipment that need up to 16 signals	Drawing No. 3- 9392

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO	PLUG PANEL 42 pin PIN NO.	DEVICE PLUG 25 p COWER HARTING PIN NO.		
01				A	1		
02				C	14		
03				B	2		
04				D	15		
05				E	3		
06				H	16		
07				F	4		
08				J	17		
09				K	5		
10				M	18		
11				L	6		
12				N	19		
13				P	7		
14				S	20		
15				R	8		
16				T	21		
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INTERNAL CABLE TYPE :
EXTERNAL CABLE TYPE 1: 12 PAIR SHIELDED ROUND CABLE
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

IN BOTH END OF EXTERNAL CABLE IS SHIELD CONNECTED TO AN EARTH STRAP WITH FASTON.

Drawn by NJN/ma	Remarks	Replacement for	Date
Approved	DEVICE ND 845	Replaced by	Date
Date 6.10.80			

NORSK DATA A.S	Title: EXTERNAL CABLE FOR N - 100 RS 232C DIABLO 1640/1650	Drawing No. 3 - 9393

WIRE NO	SIGNAL	POLARITY	EUROPLUG PIN NO	COMPUTER END PLUG 25 pin Cover Harting pin no	DEVICE PLUG PIN 25 S COVER MODEM PIN NO		
01	CHASSIS						
02							
03	TXD			2	3		
04	I1+						
05	RXD			3	2		
06	I2-						
07	RTS						
08	01+						
09	RFS			5	20		
10	02-						
11	DSR						
12							
13	GND			7	7		
14	DTR			* 20,8	6		
15	SIGN. DET.						
16							
17							
18							

INTERNAL CABLE TYPE:
EXTERNAL CABLE TYPE 1: 4 PAIR SHIELDED ROUND CABLE

PIN 1 IN THE DEVICE PLUG IS CONNECTED TO CABLE SHIELD:
IN THE COMPUTER END OF THE EXTERNAL CABLE THE SHIELD IS CONNECTED TO AN EARTH STRAP WITH FASTON.
MALE PLUG IN COMPUTER END OF CABLE.

* STRAP IN EXTERNAL CABLE

Drawn by	Remarks	Replacement for	Date
HO/ma			
Approved		Replaced by	Date
Date: 10.10.80			

NORSK DATA A.S	Title ADAPTER FROM PLUG 25P to PLUG 37 S 1:1 FOR EQUIPMENT NEEDS UP TO 16 SIGNAL	Drawing No. 3 - 9394

WIRE NO	SIGNAL	POLARITY	EUROPLUG PIN NO	PLUGPANEL 25 P PIN NO	DEVICE PLUG 37 S PIN NO		
01	CHASSIS			1	1		
02				14	20		
03	TXD			2	2		
04	11 +			15	21		
05	RXD			3	3		
06	12 -			16	22		
07	RTS			4	4		
08	01 +			17	23		
09	RFS			5	5		
10	02 -			18	24		
11	DSR			6	6		
12				19	25		
13	GND			7	7		
14	DTR			20	26		
15	SIGN. DET			8	8		
				21	27		

INTERNAL CABLE TYPE :
EXTERNAL CABLE TYPE 1.: 32 CONNDUCTOR FLAT CABLE

Drawn by NJN/ma	Remarks	Replacement for	Date
Approved	MAX LENGHT 0,2 m		
Date 14.10.80		Replaced by	Date

NORSK DATA A.S	Title: EXT. CABLE FOR N - 100 TALLY 1602/1612 CURRENT LOOP	Drawing No. 3 -'9395

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO	PLUG PANEL FEMALE EXT. CAB. MALE COVER HARTING 25pin plug pin no	DEVICE PLUG MALE 8 pin BURNDY pin no.	/	
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2			
4	11+		a 2	15	B		
5	RXD		c 3	3			
6	12-		a 3	16	A		
7	RTS		c 4	4			
8	01+		a 4	17	D		
9	RES		c 5	5			
10	02		a 5	18	C		
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7			
14	DTR		a 7	20			
15	SIGN. DET.		c 8	8			
16			a 8	21			

INTERNAL CABLE TYPE : 64 WIRE FLATCABLE
EXTERNAL CABLE TYPE 1: 4 PAIR SHIELDED ROUND CABLE

Pin H in the device plug is connected to cable shield
In the computer end of the external cable the shield is connencted to an earth strap with faston.
Male plug in computer end of cable.

Drawn by: HO/ ma	Remarks	Replacement for	Date
Approved	B - connector on 3010 B & A connector on 3013	Replaced by	Date
Date: 20.10.80			

NORSK DATA A.S	Title: PERTEC FT 9640-98 M-T INTERNAL CABLE IN M-T CABINET USED WITH 1980 ADAPTER	Drawing No. 3 - 9396

WIRE	SIGNAL	POLARITY	P4 EDGE CONN. 50 PIN PIN NO.	P4 RC CONN 50 PIN PIN NO			
01	GND		P4 - 1	1			
02	FBY		P4 - 2	2			
03	GND		P4 - 3	3			
04	THR2, LWD		P4 - 4	4			
05	GND		P4 - 5	5			
06	ERASE, W4		P4 - 6	6			
07	GND		P4 - 7	7			
08	GO		P4 - 8	8			
09	GND		P4 - 9	9			
10	DA0,W0		P4 - 10	10			
11	GND		P4 - 11	11			
12	DA1, W1		P4 - 12	12			
13			P4 - 13	13			
14			P4 - 14	14			
15			P4 - 15	15			
16			P4 - 16	16			
17	GND		P4 - 17	17			
18	REV, W2		P4 - 18	18			
19	GND		P4 - 19	19			
20	REW		P4 - 20	20			
21	GND		P4 - 21	21			
22			P4 - 22	22			
23	GND		P4 - 23	23			
24	PAR, W7		P4 - 24	24			
25	GND		P4 - 25	25			
26	WRT, W3		P4 - 26	26			
27	GND		P4 - 27	27			
28	EDIT W6		P4 - 28	28			
29			29	29			
30	REV W2		P4 - 30	30			
31	GND		P4 - 31	31			
32	WFM ,W5		P4 - 32	32			
33	GND		P4 - 33	33			
34	WRT W3		P4 - 34	34			
35			35	35			
36			36	36			
37	GND		P4 - 37	37			
38	EDIT W6		P4 - 38	38			
39	GND		P4 - 39	39			
40	ERASE , W4		P4 - 40	40			
41	GND		P4 - 41	41			
42	WFM W5		P4 - 42	42			
43			P4 - 43	43			
44			44	44			
45	GND		45	45			
46	TAD0		46	46			
47	GND		P4 - 47	47			
48	R2		P4 - 48	48			
49	GND		P4 - 49	49			
50	R3		P4 - 50	50			
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Drawn by HO/ma	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 17.11.80			

NORSK DATA A.S	Title PERTEC FT 9640-98 M-T INTERNAL CABLE IN M-T CABINET USED WITH 1980 ADAPTER	Drawing No. 3 - 9397

WIRE NO	SIGNAL	POLARITY	P5 EDGE CONN. 50 PIN PIN NO	P5 RC CONN. 50 PIN PIN NO			
01			P5 - 1	1			
02	R0		P5 - 2	2			
03	R1		P5 - 3	3			
04	LDP		P5 - 4	4			
05	GND		P5 - 5	5			
06	R4		P5 - 6	6			
07	GND		P5 - 7	7			
08	R7		P5 - 8	8			
09	GND		P5 - 9	9			
10	R6		P5 - 10	10			
11	GND		P5 - 11	11			
12	HER		P5 - 12	12			
13	GND		P5 - 13	13			
14	FMK		P5 - 14	14			
15	GND		P5 - 15	15			
16	CCG		P5 - 16	16			
17	GND		P5 - 17	17			
18	FEN		P5 - 18	18			
19	GND		P5 - 19	19			
20	R5		P5 - 20	20			
21	GND		P5 - 21	21			
22	EOT		P5 - 22	22			
23	GND		P5 - 23	23			
24	OFL		P5 - 24	24			
25			P5 - 25	25			
26			P5 - 26	26			
27	GND		P5 - 27	27			
28	RDY		P5 - 28	28			
29			P5 - 29	29			
30			P5 - 30	30			
31	GND		P5 - 31	31			
32	FPT		P5 - 32	32			
33	GND		P5 - 33	33			
34	RSTR		P5 - 34	34			
35	GND		P5 - 35	35			
36	WSTR		P5 - 36	36			
37	GND		P5 - 37	37			
38	DBY		P5 - 38	38			
39			P5 - 39	39			
40			P5 - 40	40			
41	GND		P5 - 41	41			
42	CGR		P5 - 42	42			
43	GND		P5 - 43	43			
44	ONL		P5 - 44	44			
45	GND		P5 - 45	45			
46	TAD1		P5 - 46	46			
47	GND		P5 - 47	47			
48	FAD		P5 - 48	48			
49			P5 - 49	49			
50			P5 - 50	50			
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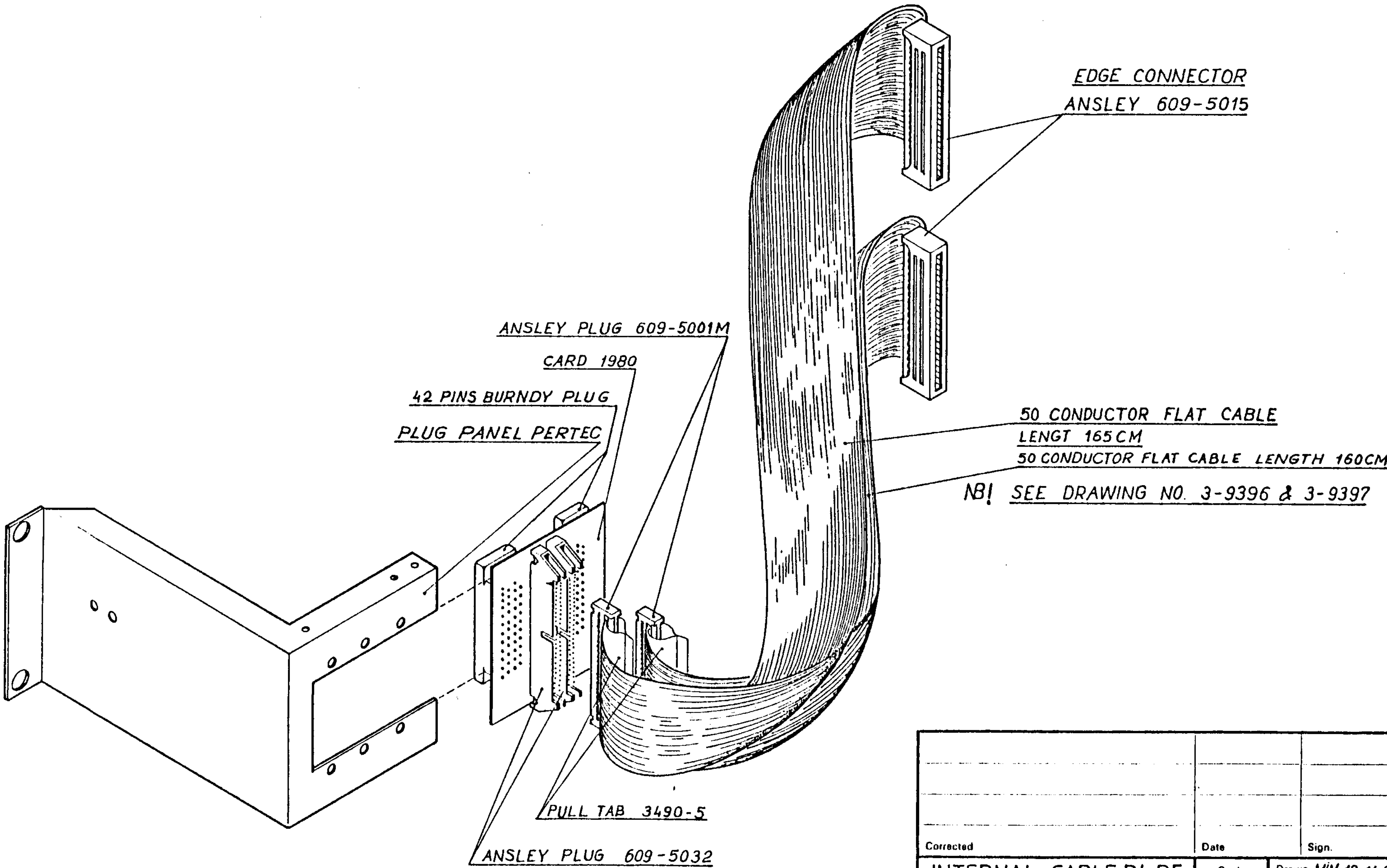
Drawn by HO/ma	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 17.11.80			



Corrected	Date	Sign.

INTERNAL CABLE P4-P5 IN M.T. CABINET USED WITH 1980 ADOPTER	Scale ≈	Drawn MJM 13.11.80. Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9398	
	Replaced by	

NORSK DATA A.S	Title: EXTERNAL CABLE N-100 HDLC TO X-21	Drawing No. 3-9501

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL 2x25 PIN D CONNECTOR PIN NO.	PLUG AMP 164527-1 15.P /- COWER AMP 206 478-2 PIN NO.		
01				1			
02				14			
03	TDA			2			
04	TCL			15			
05	RDA			3			
06				16			
07	RTS			4			
08	RCL			17			
09	RFS			5			
10				18			
11	DSR			6			
12				19			
13	GND			7			
14	DTR			20			
15	SD			8			
16				21			
17				9			
18	RI			22			
19				10			
20				23			
21				11			
22				24			
23				12			
24				25			
25				13			
26							
27							
28							
29				1			
30	TB			14	9		
31	TA			2	2		
32	TxCB (CB)			15	10		
33	TxCA (CA)			3	3		
34	RB			16	11		
35	RA			4	4		
36	TxCB (IB)			17	12		
37	TxCA (IA)			5	5		
38	RxCB (SA)			18	13		
39	RxCA (SB)			6	6		
40				19			
41				7			
42				20			
43	SIGNAL GND			8	8		
44				21			
45				9			
46	RFS			22			
47	ROTS			10			
48	DSR			23			
49	H			11			
50	SD			24			
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							

INTERNAL CABLE TYPE ::
EXTERNAL CABLE TYPE 1: 12 Pair shielded round cable
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

PIN 1 in the device plug is connected to cable shield.
In the computer end, of ext. cable the shield is connected to an earth strap with faston

Male plug in computer end

Drawn by	HO/ma	Remarks	Replacement for	Date
Approved				
Date	06.04.81		Replaced by	Date

NORSK DATA A.S	Title: 1981 PCB OP.PANEL CABLE FOR NORD - 500	Drawing No. 3 - 9502

WIRE NO.	SIGNAL	POLARITY	N-500 FRAME P12 D-CONNECTOR.FOR CABLE TRIPPEL BERG CONNECTOR PIN NO.	PLUG ON 1981 PCB IN OP.PANEL. FOR CABLE DOUBLE BERG CONNECTOR PIN NO.	PLUG PL 8 ON N-500 POWER CONTROL PANEL PIN NO.	TERMINAL STRIP BEHIND N-500 FRAME	COLOUR CODE	WIRE GAUGE
01			DC 1					
02	GND		DA 1	21			BLACK	0,20
03			DC 2					
04	+5V		DA 2	22			GREEN	0,20
05			DC 3					
06			DA 3					
07			DC 4					
08			DA 4					
09			DC 5					
10			DA 5					
11			DC 6					
12			DA 6					
13			DC 7					
14			DA 7					
15			DC 8					
16			DA 8					
17			DC 9					
18			DA 9					
19			DC 10					
20			DA 10					
21			DC 11					
22			DA 11					
23			DC 12					
24			DA 12					
25			DC 13					
26			DA 13					
27			DC 14					
28			DA 14					
29			DC 15					
30			DA 15					
31			DC 16					
32			DA 16					
33	RUNNING		DC 17	30	NC		BROWN	0,20
34	GND		DA 17	29	NC		BLACK	0,20
35	SWMCL		DC 18	34	NC		GREY	0,20
36	GND		DA 18	33	NC		BLACK	0,20
37	DMCL		DC 19	NC	8	1 MI	GREY	0,75
38	GND		DA 19	NC	10	2 GND	BLACK	0,75
39						3 MI	GREY	0,75
40						4 GND	BLACK	0,75
41	POWER FAIL		DC 20	NC	9	5 PFINT	WHITE	0,75
42	GND		DA 20	NC	10	6 GND	BLACK	0,75
43					9	7 PFINT	WHITE	0,75
44					10	8 GND	BLACK	0,75
45					12	9 EXT.PF	BROWN	0,75
46					10	10 GND	BLACK	0
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								

INTERNAL CABLE TYPE: TWISTED PAIR IN PVC TUBING

EXTERNAL CABLE TYPE 1:

EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Drawn by: HO/ma	Remarks: NC - NO CONNECTION	Replacement for	Date
Approved		Replaced by	Date
Date: 25.2.81			

NORSK DATA A.S	Title 4 TERMINAL INTERFACES FOR N-100 TANDBERG TDV 2215	Drawing No. 3 - 9503

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUG PANEL FEMALE EXT. CAB. MALE COVER HARTING 25 PIN PLUG PIN NO.	DEVICE PLUG EXT:CAB.FEMALE COVER MODEM 25 S PLUG PIN NO.		
1	CHASSIS		c 1	1			
2			a 1	14			
3	TXD		c 2	2			
4	I1+		a 2	15	23		
5	RXD		c 3	3			
6	12-		a 3	16	24		
7	RTS		c 4	4		TERMINAL 1	
8	01+		a 4	17	12		
9	RFS		c 5	5			
10	02-		a 5	18	13		
11	DSR		c 6	6			
12			a 6	19			
13	GND		c 7	7			
14	DTR		a 7	20			
15	SIGN. DET.		c 8	8			
16			a 8	21			
17	CHASSIS		c 9	1			
18			a 9	14			
19	TXD		c 10	2			
20	11+		a 10	15			
21	RXD		c 11	3			
22	12-		a 11	16			
23	RTS		c 12	4			
24	01+		a 12	17		TERMINAL 2	
25	RFS		c 13	5			
26	02-		a 13	18			
27	DSR		c 14	6			
28			a 14	19			
29	GND		c 15	7			
30	DTR		a 15	20			
31	SIGN. DET.		c 16	8			
32			a 16	21			
33	CHASSIS		c 17	1			
34			a 17	14			
35	TXD		c 18	2			
36	11+		a 18	15			
37	RXD		c 19	3			
38	12-		a 19	16			
39	RTS		c 20	4			
40	01+		a 20	17		TERMINAL 3	
41	RFS		c 21	5			
42	02-		a 21	18			
43	DSR		c 22	6			
44			a 22	19			
45	GND		c 23	7			
46	DTR		a 23	20			
47	SIGN. DET.		c 24	8			
48			a 24	21			
49	CHASSIS		c 25	1			
50			a 25	14			
51	TXD		c 26	2			
52	11+		a 26	15			
53	RXD		c 27	3			
54	12-		a 27	16			
55	RTS		c 28	4			
56	01+		a 28	17		TERMINAL 4	
57	RFS		c 29	5			
58	02-		a 29	18			
59	DSR		c 30	6			
60			a 30	19			
61	GND		c 31	7			
62	DTR		a 31	20			
63	SIGN. DET.		c 32	8			
64			a 32	21			

INTERNAL CABLE TYPE : 64 wire flat cable

EXTERNAL CABLE TYPE 1: 4 pair shielded round cable

EXTERNAL CABLE TYPE 2:

EXTERNAL CABLE TYPE 3:

EXTERNAL CABLE TYPE 4:

Pin 1 in the device plug is connected to cable shiel.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

Drawn by HO/ma	Remarks	Replacement for	Date
Approved	B-connector on 3010	Replaced by	Date
Date 17.3.81	B & A-connector on 3013		

NORSK DATA A.S	Title: EXTERNAL CABLE N-100 RS 232 TEKTRONIX 4663 PLOTTER	Drawing No. 5 - 9507

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO	EXT.CAB. MALE COVER HARTING 25 PIN PLUG PIN NO	DEVICE PLUG 25 S MODEM COVER PIN NO.		
01	CHASSIS			1			
02				14			
03	TXD			2	3		
04	11+			15			
05	RXD			3	2		
06	12-			16			
07	RTS			4			
08	01+			17			
09	RFS			5	20		
10	02-			18			
11	DSR			6			
12				19			
13	GND			7	7		
14	DTR			X 20,8			
15	SIGN. DET.			X 8,20			
16				21			

INTERNAL CABLE :
EXTERNAL CABLE 1: 4 pair round cable with screen
EXTERNAL CABLE 2:
EXTERNAL CABLE 3:
EXTERNAL CABLE 4:

Pin 1 in the device plug is connected to cable shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

X Strap in external cable.

Drawn by HO/ma	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 9.4.81			

NORSK DATA A.S	Title: EXTERNAL CABLE FOR n-100 RS 232C OMNI 810	Drawing No. 3 - 9508

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO	EXT.CAB. MALE COVER HARTING 25 PIN PLUG PIN NO	DEVICE PLUG 25 P MODEM COVER PIN NO.		
01	CHASSIS						
02				1			
03	TXD			14			
04	11+			2	3		
05	RXD			15			
06	12-			3			
07	RTS			16			
08	01+			4			
09	RFS			17			
10	02-			5	11		
11	DSR			18			
12				6			
13	GND			19			
14	DTR			7	7		
15	SIGN. DET.			* 20,8	* 8,6		
16				* 8,20			
				21			

INTERNAL CABLE :
EXTERNAL CABLE 1: 4 pair round cable with screen
EXTERNAL CABLE 2:
EXTERNAL CABLE 3:
EXTERNAL CABLE 4:

Pin 1 in the device plug is connected to cable shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

* Strap in external cable.

Drawn by HO/ma	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 9.4.81			

NORSK DATA A.S	Title EXTERNAL CABLE N-100 RS 232 FACIT 4540	Drawing No. 3 - 9509

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO	EXT.CAB.MALE COVER HARTING 25 PIN PLUG PIN NO	DEVICE PLUG 25P MODEM COVER PIN NO.		
01	CHASSIS			1			
02				14			
03	TXD			2	3		
04	I1+			15			
05	RXD			3			
06	I2-			16			
07	RTS			4			
08	O1+			17			
09	RFS			5	✱ 14,2		
10	O2-			18			
11	DSR			6			
12				19			
13	GND			7	7		
14	DTR			✱ 20,8			
15	SIGN. DET.			✱ 8,20			
16				21			

INTERNAL CABLE : 64 WIRE FLATCABLE
EXTERNAL CABLE 1: 4 PAIR ROUND CABLE WITH SCREEN
EXTERNAL CABLE 2:
EXTERNAL CABLE 3:
EXTERNAL CABLE 4:

Pin 1 in the device plug is connected to cable shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

✱ Strap in external cable.

Drawn by	HO/ma	Remarks	Replacement for	Date
Approved			Replaced by	Date
Date	9.4.81			

NORSK DATA A.S	Title: EXTERNAL CABLE N-100 RS 232C TEKTRONIX 4006	Drawing No. 3 - 9510 B

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO	EXT.CAB.MALE COVER HARTING 25 PIN PLUG PIN NO	DEVICE PLUG 25S MODEM COVER PIN NO.		
01	CHASSIS			1			
02				14			
03	TXD			2	3		
04	11+			15			
05	RXD			3	2		
06	12-			16			
07	RTS			4			
08	01+			17			
09	RFS			5			
10	02-			18			
11	DSR			6			
12				19			
13	GND			7	7		
14	DTR			* 20,8,5			
15	SIGN. DET.			* 8,20,5			
16				NC	* 20,5,6,8		

INTERNAL CABLE :
EXTERNAL CABLE 1: 4 pair round cable with screen
EXTERNAL CABLE 2:
EXTERNAL CABLE 3:
EXTERNAL CABLE 4:

Pin 1 in the device plug is connected to cable shield.
In the computer end of the external cable the shield is connected to an earth strap with faston.
Male plug in computer end of cable.

* Strap in external cable.

Drawn by HO/ma	Remarks	Replacement for	Date
Approved		Replaced by	Date
Date 24.9.81			

NORSK DATA A.S	Title INTERNAL CABLE UNIVERSAL DMA FOR N-100 CABLE A	Drawing No. 3 - 9530

WIRE NO:	SIGNAL	POLARITY	EUROPLUG PIN NO	PLUG PANEL 2X25 PIN PIN NO	DEVICE PLUG PIN NO		
01	DATA 0	1	Ac 1	1			
02	DATA 0	0	Aa 1	14			
03	DATA 1	1	Ac 2	2			
04	DATA 1	0	Aa 2	15			
05	DATA 2	1	Ac 3	3			
06	DATA 2	0	Aa 3	16			
07	DATA 3	1	Ac 4	4			
08	DATA 3	0	Aa 4	17			
09	DATA 4	1	Ac 5	5			
10	DATA 4	0	Aa 5	18			
11	DATA 5	1	Ac 6	6	A1		
12	DATA 5	0	Aa 6	19			
13	DATA 6	1	Ac 7	7			
14	DATA 6	0	Aa 7	20			
15	DATA 7	1	Ac 8	8			
16	DATA 7	0	Aa 8	21			
17	CONT 0	1	Ac 9	9			
18	CONT 0	0	Aa 9	22			
19	CONT 1	1	Ac 10	10			
20	CONT 1	0	Aa 10	23			
21	CONT 2	1	Ac 11	11			
22	CONT 2	0	Aa 11	24			
23	CONT 3	1	Ac 12	12			
24	CONT 3	0	Aa 12	25			
25	OUTPUT	1	Ac 13	1			
26	OUTPUT	0	Aa 13	14			
27	COMPLETE	1	Ac 14	2			
28	COMPLETE	0	Aa 14	15			
29	STAT 0	1	Ac 15	3			
30	STAT 0	0	Aa 15	16			
31	STAT 1	1	Ac 16	4			
32	STAT 1	0	Aa 16	17			
33	STAT 2	1	Ac 17	5			
34	STAT 2	0	Aa 17	18			
35	STAT 3	1	Ac 18	6			
36	STAT 3	0	Aa 18	19	A2		
37	STATPASS 1	1	Ac 19	7			
38	STATPASS 1	0	Aa 19	20			
39	REQUEST	1	Ac 20	8			
40	REQUEST	0	Aa 20	21			
41	BUSY	1	Ac 21	9			
42	BUSY	0	Aa 21	22			
43	RESET	1	Ac 22	10			
44	RESET	0	Aa 22	23			
45	GND		Ac 23	11			
46	GND		Aa 23	24			
47	GND		Ac 24	12			
48	GND		Aa 24	25			
49							
50							
51							
52							
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60							
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62							
63							
64							

INTERNAL CABLE : 48 WIRE FLAT CABLE
EXTERNAL CABLE 1:
EXTERNAL CABLE 2:
EXTERNAL CABLE 3:
EXTERNAL CABLE 4:

Drawn by HO/ma	Remarks	Replacement for	Date
Approved	CARD 3029	Replaced by	Date
Date 7.9.81			

NORSK DATA A.S

Title
INTERNAL CABLE
UNIVERSAL DMA FOR N-100
CABLE B

Drawing No.
3 - 9531

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO	PLUG PANEL 2X25 PIN PIN NO	DEVICE PLUG PIN NO		
01	DATA 8	1	Bc 1	1			
02	DATA 8	0	Ba 1	14			
03	DATA 9	1	Bc 2	2			
04	DATA 9	0	Ba 2	15			
05	DATA 10	1	Bc 3	3			
06	DATA 10	0	Ba 3	16			
07	DATA 11	1	Bc 4	4			
08	DATA 11	0	Ba 4	17			
09	DATA 12	1	Bc 5	5			
10	DATA 12	0	Ba 5	18			
11	DATA 13	1	Bc 6	6			
12	DATA 13	0	Ba 6	19	B 1		
13	DATA 14	1	Bc 7	7			
14	DATA 14	0	Ba 7	20			
15	DATA 15	1	Bc 8	8			
16	DATA 15	0	Ba 8	21			
17	CONT 4	1	Bc 9	9			
18	CONT 4	0	Ba 9	22			
19	CONT 5	1	Bc 10	10			
20	CONT 5	0	Ba 10	23			
21	CONT 6	1	Bc 11	11			
22	CONT 6	0	Ba 11	24			
23	CONT 7	1	Bc 12	12			
24	CONT 7	0	Ba 12	25			
25	CONTSTROBE	1	Bc 13	1			
26	CONTSTROBE	0	Ba 13	14			
27	DMA ACTIVE	1	Bc 14	2			
28	DMA ACTIVE	0	Ba 14	15			
29	STAT 4	1	Bc 15	3			
30	STAT 4	0	Ba 15	16			
31	STAT 5	1	Bc 16	4			
32	STAT 5	0	Ba 16	17			
33	STAT 6	1	Bc 17	5			
34	STAT 6	0	Ba 17	18			
35	STAT 7	1	Bc 18	6			
36	STAT 7	0	Ba 18	19	B 2		
37	STATPASS 2	1	Bc 19	7			
38	STATPASS 2	0	Ba 19	20			
39	ABORT	1	Bc 20	8			
40	ABORT	0	Ba 20	21			
41	+ 5V		Bc 21	9			
42	+ 5V		Ba 21	22			
43	+ 5V		Bc 22	10			
44	+ 5V		Ba 22	23			
45	GND		Bc 23	11			
46	GND		Ba 23	24			
47	GND		Bc 24	12			
48	GND		Ba 24	25			
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							

INTERNAL CABLE : 48 WIRE FLAT CABLE
EXTERNAL CABLE 1:
EXTERNAL CABLE 2:
EXTERNAL CABLE 3:
EXTERNAL CABLE 4:

Drawn by: HO/ma
Approved:
Date: 7.9.81

Remarks: CARD 3029

Replacement for | Date
Replaced by | Date

NORSK DATA A.S Oslo, Norway	Title 16 bit Digital Output	Drawing no. 4-9410

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.		
1	DA0L	1	BERG 95	a 20	1		
	"	0	" 94	c 20	20		
2	DA1L	1	" 93	a 19	2		
	"	0	" 92	c 19	21		
3	DA2L	1	" 91	a 18	3		
	"	0	" 90	c 18	22		
4	DA3L	1	" 89	a 17	4		
	"	0	" 88	c 17	23		
5	DA4L	1	" 87	a 16	5		
	"	0	" 86	c 16	24		
6	DA5L	1	" 85	a 15	6		
	"	0	" 84	c 15	25		
7	DA6L	1	" 83	a 14	7		
	"	0	" 82	c 14	26		
8	DA7L	1	" 81	a 13	8		
	"	0	" 80	c 13	27		
9	DA8L	1	" 79	a 12	9		
	"	0	" 78	c 12	28		
10	DA9L	1	" 77	a 11	10		
	"	0	" 76	c 11	29		
11	DA10L	1	" 75	a 10	11		
	"	0	" 74	c 10	30		
12	DA11L	1	" 73	a 9	12		
	"	0	" 72	c 9	31		
13	DA12L	1	" 71	a 8	13		
	"	0	" 70	c 8	32		
14	DA13L	1	" 69	a 7	14		
	"	0	" 68	c 7	33		
15	DA14L	1	" 67	a 6	15		
	"	0	" 66	c 6	34		
16	DA15L	1	" 65	a 5	16		
	"	0	" 64	c 5	35		
17	STROBL	1	" 63	a 4	17		
	"	0	" 62	c 4	36		
18	REQL	1	" 61	a 3	18		
	"	0	" 60	c 3	37		
19	CWOUTL	1	" 59	a 2	1		
	"	0	" 58	c 2	20		
20	ERRSL	1	" 57	a 1	2		
	"	0	" 56	c 1	21		
21		1	" 55		3		
		0	" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title 16 bit Digital Input/Output	Drawing no. 4-9411

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.		
1	DA0L	1	BERG 95	a 20	1		
	GND	0	" 94	c 20	20		
2	DA1L	1	" 93	a 19	2		
	GND	0	" 92	c 19	21		
3	DA2L	1	" 91	a 18	3		
	GND	0	" 90	c 18	22		
4	DA3L	1	" 89	a 17	4		
	GND	0	" 88	c 17	23		
5	DA4L	1	" 87	a 16	5		
	GND	0	" 86	c 16	24		
6	DA5L	1	" 85	a 15	6		
	GND	0	" 84	c 15	25		
7	DA6L	1	" 83	a 14	7		
	GND	0	" 82	c 14	26		
8	DA7L	1	" 81	a 13	8		
	GND	0	" 80	c 13	27		
9	DA8L	1	" 79	a 12	9		
	GND	0	" 78	c 12	28		
10	DA9L	1	" 77	a 11	10		
	GND	0	" 76	c 11	29		
11	DA10L	1	" 75	a 10	11		
	GND	0	" 74	c 10	30		
12	DA11L	1	" 73	a 9	12		
	GND	0	" 72	c 9	31		
13	DA12L	1	" 71	a 8	13		
	GND	0	" 70	c 8	32		
14	DA13L	1	" 69	a 7	14		
	GND	0	" 68	c 7	33		
15	DA14L	1	" 67	a 6	15		
	GND	0	" 66	c 6	34		
16	DA15L	1	" 65	a 5	16		
	GND	0	" 64	c 5	35		
17	NDR/DT	1	" 63	a 4	17		
	GND	0	" 62	c 4	36		
18	INT. REQ.	1	" 61	a 3	18		
	GND	0	" 60	c 3	37		
19	CSR 1	1	" 59	a 2	1		
	GND	0	" 58	c 2	20		
20	CSR 0	1	" 57	a 1	2		
	GND	0	" 56	c 1	21		
21			" 55		3		
			" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY	1158 CARD	Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title DOCUMENTATION CARD READER	Drawing no. 4-4912

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	CARD READER PLUG	NAME CPU
1	ROW 11_0	1	BERG 95	a 20	1	B	D 10_0
	GND	0	" 94	c 20	20	F	GND
2	ROW 0_0	1	" 93	a 19	2	C	D 9_0
	GND	0	" 92	c 19	21	H	GND
3	ROW 12_0	1	" 91	a 18	3	A	D 11_0
	GND	0	" 90	c 18	22	E	GND
4	ROW 1_0	1	" 89	a 17	4	D	D 8_0
	GND	0	" 88	c 17	23	J	GND
5	PC_0	1	" 87	a 16	5	LL	
	GND	0	" 86	c 16	24	SS	
6	ROW 2_0	1	" 85	a 15	6	K	D 7_0
	GND	0	" 84	c 15	25	P	GND
7	RDY_0	1	" 83	a 14	7	BB	
	GND	0	" 82	c 14	26	FF	
8	ROW 3_0	1	" 81	a 13	8	L	D 6_0
	GND	0	" 80	c 13	27	R	GND
9	BSY_0	1	" 79	a 12	9	MM	
	GND	0	" 78	c 12	28	TT	
10	ROW 4_0	1	" 77	a 11	10	M	D 5_0
	GND	0	" 76	c 11	29	S	GND
11	IM_0	1	" 75	a 10	11	AA	
	GND	0	" 74	c 10	30	EE	
12	ROW 5_0	1	" 73	a 9	12	N	D 4_0
	GND	0	" 72	c 9	31	T	GND
13	HCK_0	1	" 71	a 8	13	JJ	
	GND	0	" 70	c 8	32	PP	
14	ROW 6_0	1	" 69	a 7	14	U	D 3_0
	GND	0	" 68	c 7	33	W	GND
15	HER_0	1	" 67	a 6	15	HH	
	GND	0	" 66	c 6	34	NN	
16	ROW 7_0	1	" 65	a 5	16	V	D 2_0
	GND	0	" 64	c 5	35	X	GND
17	$MOCK_0$	1	" 63	a 4	17	KK	
	GND	0	" 62	c 4	36	RR	
18	ROW 8_0	1	" 61	a 3	18	Y	D 1_0
	GND	0	" 60	c 3	37	CC	GND
19		1	" 59	a 2	1		
		0	" 58	c 2	20		
20	ROW 9_0	1	" 57	a 1	2	Z	D 0_0
	GND	0	" 56	c 1	21	DD	GND
21		1	" 55		3		
		0	" 54		22		

DRAWN BY	HO	Remarks	Replacement for	Date
APPROVED BY			Replaced by	Date
DATE	6.9.79			

NORSK DATA A.S Oslo, Norway	Title CENTRONICS LP with Parallel byte output 1109	Drawing no. 4-9415

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	AMP	
1	RDY	0	BERG 95	a 20	1	10	
	GND		" 94	c 20	20	28	
2	STR	1	" 93	a 19	2	1	
	GND		" 92	c 19	21	19	
3	DA7	1	" 91	a 18	3	9	
	GND		" 90	c 18	22	27	
4	DA6	1	" 89	a 17	4	8	
	GND		" 88	c 17	23	26	
5	DA5	1	" 87	a 16	5	7	
	GND		" 86	c 16	24	25	
6	DA4	1	" 85	a 15	6	6	
	GND		" 84	c 15	25	24	
7	DA3	1	" 83	a 14	7	5	
	GND		" 82	c 14	26	23	
8	DA2	1	" 81	a 13	8	4	
	GND		" 80	c 13	27	22	
9	DA1	1	" 79	a 12	9	3	
	GND		" 78	c 12	28	21	
10	DA0	1	" 77	a 11	10	2	
	GND		" 76	c 11	29	20	
11	STS		" 75	a 10	11		
	GND		" 74	c 10	30		
12	MODA		" 73	a 9	12		
	GND		" 72	c 9	31		
13	MODB		" 71	a 8	13		
	GND		" 70	c 8	32		
14	INI		" 69	a 7	14	31	
	GND		" 68	c 7	33	30	
15	FUN1		" 67	a 6	15		
	GND		" 66	c 6	34		
16	FUN2		" 65	a 5	16		
	GND		" 64	c 5	35		
17	FUN3		" 63	a 4	17		
	GND		" 62	c 4	36		
18	XB0		" 61	a 3	18		
	XB1		" 60	c 3	37		
19	XB2		" 59	a 2	1		
			" 58	c 2	20		
20			" 57	a 1	2		
			" 56	c 1	21		
21			" 55		3		
			" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title LOGA BAX MP with Parallel byte output 1109	Drawing no. 4.9416

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.		
1	RDY	1	BERG 95	a 20	1	15 A	
	GND		" 94	c 20	20	1 B	
2	STR	0	" 93	a 19	2	6 A	
	GND		" 92	c 19	21	2 B	
3	DA7		" 91	a 18	3		
	GND		" 90	c 18	22		
4	DA6	0	" 89	a 17	4	9 A	
	GND		" 88	c 17	23	3 A	
5	DA5	0	" 87	a 16	5	8 A	
	GND		" 86	c 16	24	1 A	
6	DA4	0	" 85	a 15	6	7 A	
	GND		" 84	c 15	25	1 A	
7	DA3	0	" 83	a 14	7	11 A	
	GND		" 82	c 14	26	2 A	
8	DA2	0	" 81	a 13	8	12 A	
	GND		" 80	c 13	27	2 A	
9	DA1	0	" 79	a 12	9	13 A	
	GND		" 78	c 12	28	1 B	
10	DA0	0	" 77	a 11	10	10 A	
	GND		" 76	c 11	29	2 B	
11	STS		" 75	a 10	11		
	GND		" 74	c 10	30		
12	MODA		" 73	a 9	12		
	GND		" 72	c 9	31		
13	MODB		" 71	a 8	13		
	GND		" 70	c 8	32		
14	INI		" 69	a 7	14		
	GND		" 68	c 7	33		
15	FUN1		" 67	a 6	15		
	GND		" 66	c 6	34		
16	FUN2		" 65	a 5	16		
	GND		" 64	c 5	35		
17	FUN3		" 63	a 4	17		
	GND		" 62	c 4	36		
18	XB0		" 61	a 3	18		
	XB1		" 60	c 3	37		
19	XB2		" 59	a 2	1		
			" 58	c 2	20		
20			" 57	a 1	2		
			" 56	c 1	21		
21			" 55		3		
			" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title CDC MATRIX PRINTER with Parallel byte output 1109	Drawing no. 4-9417

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	AMP 206150-1	
1	RDY	1	BERG 95	a 20	1	19	
	GND		" 94	c 20	20	20	
2	STR	0	" 93	a 19	2	17	
	GND		" 92	c 19	21	18	
3	DA7	0	" 91	a 18	3	10	
	GND		" 90	c 18	22	16	
4	DA6	0	" 89	a 17	4	12	
	GND		" 88	c 17	23	11	
5	DA5	0	" 87	a 16	5	14	
	GND		" 86	c 16	24	13	
6	DA4	0	" 85	a 15	6	9	
	GND		" 84	c 15	25	15	
7	DA3	0	" 83	a 14	7	7	
	GND		" 82	c 14	26	8	
8	DA2	0	" 81	a 13	8	5	
	GND		" 80	c 13	27	6	
9	DA1	0	" 79	a 12	9	3	
	GND		" 78	c 12	28	4	
10	DA0	0	" 77	a 11	10	1	
	GND		" 76	c 11	29	2	
11	STS	0	" 75	a 10	11	27	
	GND		" 74	c 10	30	28	
12	MODA		" 73	a 9	12		
	GND		" 72	c 9	31		
13	MODB		" 71	a 8	13		
	GND		" 70	c 8	32		
14	INI	0	" 69	a 7	14	21	
	GND		" 68	c 7	33	22	
15	FUN1		" 67	a 6	15		
	GND		" 66	c 6	34		
16	FUN2		" 65	a 5	16		
	GND		" 64	c 5	35		
17	FUN3		" 63	a 4	17		
	GND		" 62	c 4	36		
18	XB0	1	" 61	a 3	18	23	
	XB1		" 60	c 3	37		
19	XB2		" 59	a 2	1		
			" 58	c 2	20		
20			" 57	a 1	2		
			" 56	c 1	21		
21			" 55		3		
			" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title: QUEME with Parallel byte output 1109	Drawing no. 4-9418

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	50 pin-0,1" Edge-Connector	
1	RDY		BERG 95	a 20	1		
	GND		" 94	c 20	20		
2	STR	0	" 93	a 19	2	18	
	GND		" 92	c 19	21	19	
3	DA7	0	" 91	a 18	3	10	
	GND		" 90	c 18	22	15	
4	DA6	0	" 89	a 17	4	9	
	GND		" 88	c 17	23	15	
5	DA5	0	" 87	a 16	5	8	
	GND		" 86	c 16	24	15	
6	DA4	0	" 85	a 15	6	7	
	GND		" 84	c 15	25	15	
7	DA3	0	" 83	a 14	7	6	
	GND		" 82	c 14	26	15	
8	DA2	0	" 81	a 13	8	5	
	GND		" 80	c 13	27	15	
9	DA1	0	" 79	a 12	9	4	
	GND		" 78	c 12	28	15	
10	DA0	0	" 77	a 11	10	3	
	GND		" 76	c 11	29	15	
11	STS	0	" 75	a 10	11	37	
	GND		" 74	c 10	30	38	
12	MODA	0	" 73	a 9	12	11&12	
	GND		" 72	c 9	31	15	
13	MODB	0	" 71	a 8	13	13	
	GND		" 70	c 8	32	15	
14	INI	0	" 69	a 7	14	16	
	GND		" 68	c 7	33	17	
15	FUN1	0	" 67	a 6	15	20	
	GND		" 66	c 6	34	21	
16	FUN2	0	" 65	a 5	16	22	
	GND		" 64	c 5	35	23	
17	FUN3	0	" 63	a 4	17	26	
	GND		" 62	c 4	36	27	
18	XB0	1	" 61	a 3	18	39	NOT
	XB1	1	" 60	c 3	37	41	TWISTED
19	XB2	1	" 59	a 2	1	43	
			" 58	c 2	20		
20			" 57	a 1	2		
			" 56	c 1	21		
21			" 55		3		
			" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY	Databit -1 is not used	Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title FACIT PUNCH with Prallel byte output 1109	Drawing no. 4-9419

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	CANNON DB 25 P	
1	RDY	1	BERG 95	a 20	1	12	
	GND		" 94	c 20	20	25	
2	STR	1	" 93	a 19	2	9 & 11	
	GND		" 92	c 19	21	25	
3	DA7	1	" 91	a 18	3	8	
	GND		" 90	c 18	22	25	
4	DA6	1	" 89	a 17	4	7	
	GND		" 88	c 17	23	25	
5	DA5	1	" 87	a 16	5	6	
	GND		" 86	c 16	24	25	
6	DA4	1	" 85	a 15	6	5	
	GND		" 84	c 15	25	25	
7	DA3	1	" 83	a 14	7	4	
	GND		" 82	c 14	26	25	
8	DA2	1	" 81	a 13	8	3	
	GND		" 80	c 13	27	25	
9	DA1	1	" 79	a 12	9	2	
	GND		" 78	c 12	28	25	
10	DA0	1	" 77	a 11	10	1	
	GND		" 76	c 11	29	25	
11	STS		" 75	a 10	11		
	GND		" 74	c 10	30		
12	MODA		" 73	a 9	12		
	GND		" 72	c 9	31		
13	MODB		" 71	a 8	13		
	GND		" 70	c 8	32		
14	INI		" 69	a 7	14		
	GND		" 68	c 7	33		
15	FUN1		" 67	a 6	15		
	GND		" 66	c 6	34		
16	FUN2		" 65	a 5	16		
	GND		" 64	c 5	35		
17	FUN3		" 63	a 4	17		
	GND		" 62	c 4	36		
18	XB0		" 61	a 3	18		
	XB1		" 60	c 3	37		
19	XB2		" 59	a 2	1		
			" 58	c 2	20		
20			" 57	a 1	2		
			" 56	c 1	21		
21			" 55		3		
			" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title AD CONVERTER NORD-10 STANDARD	Drawing no. 4.9420

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.		
1			BERG 95	a 20	1		
			" 94	c 20	20		
2			" 93	a 19	2		
			" 92	c 19	21		
3			" 91	a 18	3		
			" 90	c 18	22		
4			" 89	a 17	4		
			" 88	c 17	23		
5			" 87	a 16	5		
			" 86	c 16	24		
6			" 85	a 15	6		
	Ext. Contr.		" 84	c 15	25		
7	GND		" 83	a 14	7		
	GND		" 82	c 14	26		
8	GND		" 81	a 13	8		
			" 80	c 13	27		
9	An. Inp. 0	0	" 79	a 12	9		
	An. Inp. 0	+	" 78	c 12	28		
10	An. Inp. 1	0	" 77	a 11	10		
	An. Inp. 1	+	" 76	c 11	29		
11	An. Inp. 2	0	" 75	a 10	11		
	An. Inp. 2	+	" 74	c 10	30		
12	An. Inp. 3	0	" 73	a 9	12		
	An. Inp. 3	+	" 72	c 9	31		
13	An. Inp. 4	0	" 71	a 8	13		
	An. Inp. 4	+	" 70	c 8	32		
14	An. Inp. 5	0	" 69	a 7	14		
	An. Inp. 5	+	" 68	c 7	33		
15	An. Inp. 6	0	" 67	a 6	15		
	An. Inp. 6	+	" 66	c 6	34		
16	An. Inp. 7	0	" 65	a 5	16		
	An. Inp. 7	+	" 64	c 5	35		
17			" 63	a 4	17		
			" 62	c 4	36		
18			" 61	a 3	18		
			" 60	c 3	37		
19			" 59	a 2	1		
			" 58	c 2	20		
20			" 57	a 1	2		
			" 56	c 1	21		
21			" 55		3		
			" 54		22		

NN - M - 1132

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 3.9.79			

NORSK DATA A.S Oslo, Norway	Title PROSESS INPUT	Drawing no. 4-9421

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.		
1		1	BERG 95	a 20	1		
		0	" 94	c 20	20		
2	D 0	1	" 93	a 19	2		
	"	0	" 92	c 19	21		
3	D 1	1	" 91	a 18	3		
	"	0	" 90	c 18	22		
4	D 2	1	" 89	a 17	4		
	"	0	" 88	c 17	23		
5	D 3	1	" 87	a 16	5		
	"	0	" 86	c 16	24		
6	D 4	1	" 85	a 15	6		
	"	0	" 84	c 15	25		
7	D 5	1	" 83	a 14	7		
	"	0	" 82	c 14	26		
8	D 6	1	" 81	a 13	8		
	"	0	" 80	c 13	27		
9	D 7	1	" 79	a 12	9		
	"	0	" 78	c 12	28		
10	D 8	1	" 77	a 11	10		
	"	0	" 76	c 11	29		
11	D 9	1	" 75	a 10	11		
	"	0	" 74	c 10	30		
12	D 10	1	" 73	a 9	12		
	"	0	" 72	c 9	31		
13	D 11	1	" 71	a 8	13		
	"	0	" 70	c 8	32		
14		1	" 69	a 7	14		
		0	" 68	c 7	33		
15		1	" 67	a 6	15		
		0	" 66	c 6	34		
16		1	" 65	a 5	16		
		0	" 64	c 5	35		
17		1	" 63	a 4	17		
		0	" 62	c 4	36		
18		1	" 61	a 3	18		
		0	" 60	c 3	37		
19		1	" 59	a 2	1		
		0	" 58	c 2	20		
20		1	" 57	a 1	2		
		0	" 56	c 1	21		
21		1	" 55		3		
		0	" 54		22		

1056 CARD

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 3.9.79			

NORSK DATA A.S Oslo, Norway	Title PROSESS OUTPUT	Drawing no. 4-9422

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.		
1		1	BERG 95	a 20	1		
		0	" 94	c 20	20		
2	D 0	1	" 93	a 19	2		
	"	0	" 92	c 19	21		
3	D 1	1	" 91	a 18	3		
	"	0	" 90	c 18	22		
4	D 2	1	" 89	a 17	4		
	"	0	" 88	c 17	23		
5	D 3	1	" 87	a 16	5		
	"	0	" 86	c 16	24		
6	D 4	1	" 85	a 15	6		
	"	0	" 84	c 15	25		
7	D 5	1	" 83	a 14	7		
	"	0	" 82	c 14	26		
8	D 6	1	" 81	a 13	8		
	"	0	" 80	c 13	27		
9	D 7	1	" 79	a 12	9		
	"	0	" 78	c 12	28		
10	D 8	1	" 77	a 11	10		
	"	0	" 76	c 11	29		
11	D 9	1	" 75	a 10	11		
	"	0	" 74	c 10	30		
12	D 10	1	" 73	a 9	12		
	"	0	" 72	c 9	31		
13	D 11	1	" 71	a 8	13		
	"	0	" 70	c 8	32		
14	D 12	1	" 69	a 7	14		
	"	0	" 68	c 7	33		
15	D 13	1	" 67	a 6	15		
	"	0	" 66	c 6	34		
16	D 14	1	" 65	a 5	16		
	"	0	" 64	c 5	35		
17	D 15	1	" 63	a 4	17		
	"	0	" 62	c 4	36		
18	SET	1	" 61	a 3	18		
	"	0	" 60	c 3	37		
19		1	" 59	a 2	1		
		0	" 58	c 2	20		
20		1	" 57	a 1	2		
		0	" 56	c 1	21		
21		1	" 55		3		
		0	" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY	1057 Card	Replaced by	Date
DATE 3.9.79			

NORSK DATA A.S Oslo, Norway	Title CABLE FOR SYNCHRONOUS MODEM	Drawing no. 4-9428

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	CANNON DB-25-P	
1	TRANSMITTED DATA		BERG 95	a 20	1	2	
	GROUND		" 94	c 20	20	7	
2	RATE SELECTOR		" 93	a 19	2	23	
	REQUEST TO SEND		" 92	c 19	21	4	
3	CONNECT D.S. TO LINE		" 91	a 18	3	20	
	DATA SET READY		" 90	c 18	22	6	
4	READY FOR SENDING		" 89	a 17	4	5	
	SIGNAL DETECTOR		" 88	c 17	23	8	
5	RECEIVED DATA		" 87	a 16	5	3	
	GROUND		" 86	c 16	24	7	
6	CALLING INDICATOR		" 85	a 15	6	22	
	GROUND		" 84	c 15	25	7	
7	TRANSMITTER TIMING		" 83	a 14	7	15	
	GROUND		" 82	c 14	26	7	
8	RECEIVER TIMING		" 81	a 13	8	17	
	GROUND		" 80	c 13	27	7	
9			" 79	a 12	9		
			" 78	c 12	28		
10			" 77	a 11	10		
			" 76	c 11	29		
11			" 75	a 10	11		
			" 74	c 10	30		
12			" 73	a 9	12		
			" 72	c 9	31		
13			" 71	a 8	13		
			" 70	c 8	32		
14			" 69	a 7	14		
			" 68	c 7	33		
15			" 67	a 6	15		
			" 66	c 6	34		
16			" 65	a 5	16		
			" 64	c 5	35		
17			" 63	a 4	17		
			" 62	c 4	36		
18			" 61	a 3	18		
			" 60	c 3	37		
19			" 59	a 2	1		
			" 58	c 2	20		
20			" 57	a 1	2		
			" 56	c 1	21		
21			" 55		3		
			" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title TALLY MATRIX PRINTER CABLE	Drawing no. 4-9429

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	PLUG WINCHESTER MRAC 50-P (J11 ON TALLY)	
1	LDATA 1	1	BERG 95	a 20	1	B	
	LDATA 1	0	" 94	c 20	20	D	
2	LDATA 2	1	" 93	a 19	2	F	
	LDATA 2	0	" 92	c 19	21	J	
3	LDATA 3	1	" 91	a 18	3	L	
	LDATA 3	0	" 90	c 18	22	N	
4	LDATA 4	1	" 89	a 17	4	R	
	LDATA 4	0	" 88	c 17	23	T	
5	LDATA 5	1	" 87	a 16	5	V	
	LDATA 5	0	" 86	c 16	24	X	
6	LDATA 6	1	" 85	a 15	6	Z	
	LDATA 6	0	" 84	c 15	25	b	
7	LDATA 7	1	" 83	a 14	7	n	
	LDATA 7	0	" 82	c 14	26	k	
8	LSTROBE	1	" 81	a 13	8	j	
	LSTROBE	0	" 80	c 13	27	m	
9	LDEMAND	1	" 79	a 12	9	E	
	LDEMAND	0	" 78	c 12	28	C	
10	LREADY	1	" 77	a 11	10	CC	
	LREADY	0	" 76	c 11	29	EE	
11	LONLINE	1	" 75	a 10	11	y	
	LONLINE	0	" 74	c 10	30	AA	
12	LPAPINSTR	1	" 73	a 9	12	p	
	LPAPINSTR	0	" 72	c 9	31	s	
13		1	" 71	a 8	13		
		0	" 70	c 8	32		
14		1	" 69	a 7	14		
		0	" 68	c 7	33		
15		1	" 67	a 6	15		
		0	" 66	c 6	34		
16		1	" 65	a 5	16		
		0	" 64	c 5	35		
17		1	" 63	a 4	17		
		0	" 62	c 4	36		
18		1	" 61	a 3	18		
		0	" 60	c 3	37		
19		1	" 59	a 2	1		
		0	" 58	c 2	20		
20		1	" 57	a 1	2		
		0	" 56	c 1	21		
21		1	" 55		3		
		0	" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title CALCOMP PLOTTER CABLING	Drawing no. 4-9430

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	PLOTTER PLUG ELCO 00-8016-056 000-702	
1	XC1	1	BERG 95	a 20	1	A	
	"	0	" 94	c 20	20	B	
2	XC2	1	" 93	a 19	2	C	
	"	0	" 92	c 19	21	D	
3	XC3	1	" 91	a 18	3	E	
	"	0	" 90	c 18	22	F	
4	XC4	1	" 89	a 17	4	H	
	"	0	" 88	c 17	23	J	
5		1	" 87	a 16	5	L	
		0	" 86	c 16	24	M	
6	XCS	1	" 85	a 15	6	N	
	"	0	" 84	c 15	25	P	
7	XPR	1	" 83	a 14	7	R	
	"	0	" 82	c 14	26	S	
8		1	" 81	a 13	8	T	
		0	" 80	c 13	27	U	
9		1	" 79	a 12	9	W	
		0	" 78	c 12	28	X	
10	RDY	1	" 77	a 11	10	c	
	"	0	" 76	c 11	29	e	
11	GND	1	" 75	a 10	11	f	
	"	0	" 74	c 10	30	f	
12		1	" 73	a 9	12		
		0	" 72	c 9	31		
13		1	" 71	a 8	13		
		0	" 70	c 8	32		
14		1	" 69	a 7	14		
		0	" 68	c 7	33		
15		1	" 67	a 6	15		
		0	" 66	c 6	34		
16		1	" 65	a 5	16		
		0	" 64	c 5	35		
17		1	" 63	a 4	17		
		0	" 62	c 4	36		
18		1	" 61	a 3	18		
		0	" 60	c 3	37		
19		1	" 59	a 2	1		
		0	" 58	c 2	20		
20		1	" 57	a 1	2		
		0	" 56	c 1	21		
21		1	" 55		3		
		0	" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title CDC 9380 LINE PRINTER	Drawing no. 4-9431

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	PLUG AMP	
1	LP1	0	BERG 95	a 20	1	1	
	GND		" 94	c 20	20	2	
2	LP2	0	" 93	a 19	2	3	
	GND		" 92	c 19	21	4	
3	LP3	0	" 91	a 18	3	5	
	GND		" 90	c 18	22	6	
4	LP4	0	" 89	a 17	4	7	
	GND		" 88	c 17	23	8	
5	LP5	0	" 87	a 16	5	9	
	GND		" 86	c 16	24	15	
6	LP6	0	" 85	a 15	6	14	
	GND		" 84	c 15	25	13	
7	LP7	0	" 83	a 14	7	12	
	GND		" 82	c 14	26	11	
8	LP9	0	" 81	a 13	8	31	
	GND		" 80	c 13	27	32	
9	LP8	0	" 79	a 12	9	10	
	GND		" 78	c 12	28	16	
10	LMC	0	" 77	a 11	10	25	
	GND		" 76	c 11	29	26	
11	LSTROB	0	" 75	a 10	11	17	
	GND		" 74	c 10	30	18	
12	LACK	0	" 73	a 9	12	19	
	GND		" 72	c 9	31	20	
13	LBUSY	1	" 71	a 8	13	23	
	GND		" 70	c 8	32	24	
14	LREADY	0	" 69	a 7	14	21	
	GND		" 68	c 7	33	22	
15	LOOP	0	" 67	a 6	15	27	
	GND		" 66	c 6	34	28	
16	LCP	1	" 65	a 5	16	30	
	GND		" 64	c 5	35	33	
17	LBDO	1	" 63	a 4	17	36	
	GND		" 62	c 4	36	37	
18	LBD1	1	" 61	a 3	18	34	
	GND		" 60	c 3	37	35	
19			" 59	a 2	1		
			" 58	c 2	20		
20			" 57	a 1	2		
			" 56	c 1	21		
21			" 55		3		
			" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title DEVICE PLUG DEVICE: DIGITRONICS TAPE READER	Drawing no. 4.9432

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37. pin plug conn.	PLUG DIGITRONICS	
1	STOP$_1$	1	BERG 95	a 20	1	20	
	GND	0	" 94	c 20	20	12	
2	DRIVE$_1$	1	" 93	a 19	2	18	
	GND	0	" 92	c 19	21	12	
3	SPROCKET$_1$	1	" 91	a 18	3	N	
	GND	0	" 90	c 18	22	12	
4	RD7$_1$	1	" 89	a 17	4	M	
	GND	0	" 88	c 17	23	11	
5	RD6$_1$	1	" 87	a 16	5	L	
	GND	0	" 86	c 16	24	10	
6	RD5$_1$	1	" 85	a 15	6	K	
	GND	0	" 84	c 15	25	9	
7	RD4$_1$	1	" 83	a 14	7	J	
	GND	0	" 82	c 14	26	8	
8	RD3$_1$	1	" 81	a 13	8	H	
	GND	0	" 80	c 13	27	7	
9	RD2$_1$	1	" 79	a 12	9	F	
	GND	0	" 78	c 12	28	6	
10	RD1$_1$	1	" 77	a 11	10	E	
	GND	0	" 76	c 11	29	5	
11	RD0$_1$	1	" 75	a 10	11	D	
	GND	0	" 74	c 10	30	4	
12	DUMMY	1	" 73	a 9	12		
	"	0	" 72	c 9	31		
13	"	1	" 71	a 8	13		
	"	0	" 70	c 8	32		
14	"	1	" 69	a 7	14		
	"	0	" 68	c 7	33		
15	"	1	" 67	a 6	15		
	"	0	" 66	c 6	34		
16	"	1	" 65	a 5	16		
	"	0	" 64	c 5	35		
17	"	1	" 63	a 4	17		
	"	0	" 62	c 4	36		
18	"	1	" 61	a 3	18		
	"	0	" 60	c 3	37		
19	"	1	" 59	a 2	1		
	"	0	" 58	c 2	20		
20	"	1	" 57	a 1	2		
	"	0	" 56	c 1	21		
21		1	" 55		3		
		0	" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title DEVICE PLUG DEVICE: FACIT 4070	Drawing no. 4.9433

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.	PLUG CHANNEL	
1	PR_1	1	BERG 95	a 20	1	12	
	GND	0	" 94	c 20	20	25	
2	$CH9_1$	1	" 93	a 19	2	9 & 11	
	GND	0	" 92	c 19	21	25	
3	$CH8_1$	1	" 91	a 18	3	8	
	GND	0	" 90	c 18	22	25	
4	$CH7_1$	1	" 89	a 17	4	7	
	GND	0	" 88	c 17	23	25	
5	$CH6_1$	1	" 87	a 16	5	6	
	GND	0	" 86	c 16	24	25	
6	$CH5_1$	1	" 85	a 15	6	5	
	GND	0	" 84	c 15	25	25	
7	$CH4_1$	1	" 83	a 14	7	4	
	GND	0	" 82	c 14	26	25	
8	$CH3_1$	1	" 81	a 13	8	3	
	GND	0	" 80	c 13	27	25	
9	$CH2_1$	1	" 79	a 12	9	2	
	GND	0	" 78	c 12	28	25	
10	$CH1_1$	1	" 77	a 11	10	1	
	GND	0	" 76	c 11	29	25	
11	DUMMY	1	" 75	a 10	11	14/15	
	"	0	" 74	c 10	30		
12	"	1	" 73	a 9	12		
	"	0	" 72	c 9	31		
13	"	1	" 71	a 8	13		
	"	0	" 70	c 8	32		
14	"	1	" 69	a 7	14		
	"	0	" 68	c 7	33		
15	"	1	" 67	a 6	15		
	"	0	" 66	c 6	34		
16	"	1	" 65	a 5	16		
	"	0	" 64	c 5	35		
17	"	1	" 63	a 4	17		
	"	0	" 62	c 4	36		
18	"	1	" 61	a 3	18		
	"	0	" 60	c 3	37		
19	"	1	" 59	a 2	1		
	"	0	" 58	c 2	20		
20	"	1	" 57	a 1	2		
	"	0	" 56	c 1	21		
21		1	" 55		3		
		0	" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title: 16 bit Digital Input	Drawing no. 4-9434

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUGPANEL 2x37 pin plug conn.		
1	DA0L	1	BERG 95	a 20	1		
	"	0	" 94	c 20	20		
2	DA1L	1	" 93	a 19	2		
	"	0	" 92	c 19	21		
3	DA2L	1	" 91	a 18	3		
	"	0	" 90	c 18	22		
4	DA3L	1	" 89	a 17	4		
	"	0	" 88	c 17	23		
5	DA4L	1	" 87	a 16	5		
	"	0	" 86	c 16	24		
6	DA5L	1	" 85	a 15	6		
	"	0	" 84	c 15	25		
7	DA6L	1	" 83	a 14	7		
	"	0	" 82	c 14	26		
8	DA7L	1	" 81	a 13	8		
	"	0	" 80	c 13	27		
9	DA8L	1	" 79	a 12	9		
	"	0	" 78	c 12	28		
10	DA9L	1	" 77	a 11	10		
	"	0	" 76	c 11	29		
11	DA10L	1	" 75	a 10	11		
	"	0	" 74	c 10	30		
12	DA11L	1	" 73	a 9	12		
	"	0	" 72	c 9	31		
13	DA12L	1	" 71	a 8	13		
	"	0	" 70	c 8	32		
14	DA13L	1	" 69	a 7	14		
	"	0	" 68	c 7	33		
15	DA14L	1	" 67	a 6	15		
	"	0	" 66	c 6	34		
16	DA15L	1	" 65	a 5	16		
	"	0	" 64	c 5	35		
17	STROBL	1	" 63	a 4	17		
	"	0	" 62	c 4	36		
18	REQL	1	" 61	a 3	18		
	"	0	" 60	c 3	37		
19	ERRSL	1	" 59	a 2	1		
	"	0	" 58	c 2	20		
20	CWOUTL	1	" 57	a 1	2		
	"	0	" 56	c 1	21		
21		1	" 55		3		
		0	" 54		22		

DRAWN BY HO	Remarks	Replacement for	Date
APPROVED BY	1041 Card	Replaced by	Date
DATE 6.9.79			

NORSK DATA A.S Oslo, Norway	Title EXTERNAL CABLE SMC 1:1	Drawing no. 4 - 9438

WIRE NO.	SIGNAL	POLARITY		AMP 38 PIN COVER AMP 200517-2 PIN NO.	AMP 38 PIN COVER AMP 200517-2 PIN NO.	CABLE TYPE
01	GROUND NOT USED					
02	GROUND NOT USED					
03	GROUND		SCREEN	K	K	
04	SERCL	1		N	N	
05	SERCL	0		M	M	
06	GROUND		SCREEN	T	T	
07	RDDL	0		U	U	
08	RDDL	1		V	V	
09	GROUND		SCREEN	Y	Y	KOAX
10	RCL	1		X	X	
11	RCL	0		W	W	
12	GROUND		SCREEN	E	E	
13	WRCL	0		H	H	
14	WRCL	1		J	J	
15	GROUND		SCREEN	D	D	
16	WDL	1		B	B	
17	WDL	0		A	A	
18	GROUND					
19	USL	1		BB	BB	
20	USL	0		DD	DD	
21	SEEKEL	0		AA	AA	
22	SEEKEL	1		CC	CC	
23	GROUND					TWISTED PAIR
24	INDEX	1		HH	HH	
25	INDEX	0		EE	EE	
26	GROUND					
27	SECTOR	0		FF	FF	
28	SECTOR	1		JJ	JJ	
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

THE EXTERNAL CABLE CONSITS OF 5 PIECES OF KOAXIAL CABLE AND 4 TWISTED PAIRS

L=4 m

DRAWN BY KJKR/ma	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 26.3.81			

NORSK DATA A.S Oslo, Norway	Title 1095 MOD. TERMINET 340 (current loop)	Drawing no. 4-9440

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUG PANEL 2x37 pin plug connection	BURNDY 8-pin connector (MALE)	CANNON DB 25 P Modem cover (Ins. printer)
1	LINE I2		BERG 95	a20	1	A	20
	LINE I1		BERG 94	c20	20	B	16
2	LINE 02		BERG 93	a19	2	C	18
	LINE 01		BERG 92	c19	21	D	4
3			BERG 91	a18	3		
			BERG 90	c18	22		
4			BERG 89	a17	4		
			BERG 88	c17	23		
5			BERG 87	a16	5		
			BERG 86	c16	24		
6			BERG 85	a15	6		
			BERG 84	c15	25		
7			BERG 83	a14	7		
			BERG 82	c14	26		
8			BERG 81	a13	8		
			BERG 80	c13	27		
9			BERG 79	a12	9		
			BERG 78	c12	28		
10			BERG 77	a11	10		
			BERG 76	c11	29		
11			BERG 75	a10	11		
			BERG 74	c10	30		
12			BERG 73	a 9	12		
			BERG 72	c 9	31		
13			BERG 71	a 8	13		
			BERG 70	c 8	32		
14			BERG 69	a 7	14		
			BERG 68	c 7	33		
15			BERG 67	a 6	15		
			BERG 66	c 6	34		
16			BERG 65	a 5	16		
			BERG 64	c 5	35		
17			BERG 63	a 4	17		
			BERG 62	c 4	36		
18			BERG 61	a 3	18		
			BERG 60	c 3	37		
19			BERG 59	a 2	1		
			BERG 58	c 2	20		
20			BERG 57	a 1	2		
			BERG 56	c 1	21		
21			BERG 55		3		
			BERG 54		22		

DRAWN BY TF/ho	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 22.10.79			

NORSK DATA A.S Oslo, Norway	Title: ADAPTER FROM ANSLEY TO BURNDY PLUG N-100 - MAIN I/O BUS CONTROL	Drawing no. 4-9442

NO.	SIGNAL	POLARITY		MAIN I/O ADAPTER M3001 EURO BUS ADAPTER M3008 CONNECTOR	PLUGPANEL N-100 37PIN D CONN. PIN NO.	BURNDY PLUG ON PLUG PANEL
01	MDRY	0		ba 32	32	P
	MDRY	1		bc 32	13	S
02	MMCL	0		ba 31	31	R
	MMCL	1		bc 31	12	T
03	MINGRANT	0		ba 30	30	U
	MINGRANT	1		bc 30	11	W
04	MIOXE	0		ba 29	29	V
	MIOXE	1		bc 29	10	X
05	MINIDENT	0		ba 28	28	Y
	MINIDENT	1		bc 28	9	AA
06	MINT 10	0		ba 27	27	BB
	MINT 10	1		bc 27	8	Z
07	MINT 11	0		ba 26	26	EE
	MINT 11	1		bc 26	7	CC
08	MINT 12	0		ba 25	25	FF
	MINT 12	1		bc 25	6	DD
09	MINT 13	0		ba 24	24	KK
	MINT 13	1		bc 24	5	HH
10	MINT 15	0		ba 23	23	LL
	MINT 15	1		bc 23	4	JJ
11	MREQ	0		ba 22	22	PP
	MREQ	1		bc 22	3	MM
12	MCONNECT	0		ba 21	21	RR
	MCONNECT	1		bc 21	2	NN
13	MINPUT	0		ba 20	20	UU
	MINPUT	1		bc 20	1	SS
14						
15						
16						
17						
18						
19						
20						

ONLY 13 pairs in cable.

DRAWN BY HO/kha	Remarks	Replacement for	Date
APPROVED BY	Twisted pairs	Replaced by	Date
DATE 11.2.80	Used in cable Burndy - Ansley		

NORSK DATA A.S Oslo, Norway	Title: ADAPTER FROM ANSLEY TO BURNDY PLUG FOR N-100 MAIN I/O BUS DATA	Drawing no. 4-9443

NO.	SIGNAL	POLARITY	MAIN I/O ADAPTER M3001 EURO BUS ADAPTER M3008 CONNECTOR	PLUGPANEL N-100 37PIN D CONN. PIN NO.	BURNDY PLUG ON PLUG PANEL	
01	MBD 15	0	ba 16	35	A	
	MBD 15	1	bc 16	16	C	
02	MBD 14	0	ba 15	34	B	
	MBD 14	1	bc 15	15	D	
03	MBD 13	0	ba 14	33	E	
	MBD 13	1	bc 14	14	H	
04	MBD 12	0	ba 13	32	F	
	MBD 12	1	bc 13	13	J	
05	MBD 11	0	ba 12	31	K	
	MBD 11	1	bc 12	12	M	
06	MBD 10	0	ba 11	30	L	
	MBD 10	1	bc 11	11	N	
07	MBD 9	0	ba 10	29	P	
	MBD 9	1	bc 10	10	S	
08	MBD 8	0	ba 9	28	R	
	MBD 8	1	bc 9	9	T	
09	MBD 7	0	ba 8	27	U	
	MBD 7	1	bc 8	8	W	
10	MBD 6	0	ba 7	26	V	
	MBD 6	1	bc 7	7	X	
11	MBD 5	0	ba 6	25	Y	
	MBD 5	1	bc 6	6	AA	
12	MBD 4	0	ba 5	24	Z	
	MBD 4	1	bc 5	5	BB	
13	MBD 3	0	ba 4	23	CC	
	MBD 3	1	bc 4	4	EE	
14	MBD 2	0	ba 3	22	DD	
	MBD 2	1	bc 3	3	FF	
15	MBD 1	0	ba 2	21	HH	
	MBD 1	1	bc 2	2	KK	
16	MBD 0	0	ba 1	20	JJ	
	MBD 0	1	bc 1	1	LL	
17						
18						
19						
20						

<u>ONLY</u> 16 pairs in cable.

DRAWN BY HO/kha	Remarks	Replacement for	Date
APPROVED BY	Twisted cable between plug Burndy - Ansley	Replaced by	Date
DATE 11.2.80			

NORSK DATA A.S Oslo, Norway	Title ADAPTER FROM ANSLY TO BURNDY PLUG FOR MAIN I/O BUS ADDRESS	Drawing no. 4-9444

NO.	SIGNAL	POLARITY	MAIN I/O ADAPTER M3001 EURO BUS ADAPTER M3008 CONNECTOR	2 x 25 PIN D CONNECTOR N-100 PLUGPANEL	BURNDY PLUG ON PLUG PANEL	
01	MBA 15	0	aa 18	6	A	
	MBA 15	1	ac 18	18	C	
02	MBA 14	0	aa 17	5	B	
	MBA 14	1	ac 17	17	D	
03	MBA 13	0	aa 16	4	E	
	MBA 13	1	ac 16	16	H	
04	MBA 12	0	aa 15	3	F	
	MBA 12	1	ac 15	15	J	
05	MBA 11	0	aa 14	2	K	
	MBA 11	1	ac 14	16	M	
06	MBA 10	0	aa 13	1	L	
	MBA 10	1	ac 13	13	N	
07	MBA 9	0	aa 12	25	P	
	MBA 9	1	ac 12	12	S	
08	MBA 8	0	aa 11	24	R	
	MBA 8	1	ac 11	11	T	
09	MBA 7	0	aa 10	23	U	
	MBA 7	1	ac 10	10	W	
10	MBA 6	0	aa 9	22	V	
	MBA 6	1	ac 9	9	X	
11	MBA 5	0	aa 8	21	Y	
	MBA 5	1	ac 8	8	AA	
12	MBA 4	0	aa 7	20	Z	
	MBA 4	1	ac 7	7	BB	
13	MBA 3	0	aa 6	19	CC	
	MBA 3	1	ac 6	6	EE	
14	MBA 2	0	aa 5	18	DD	
	MBA 2	1	ac 5	5	FF	
15	MBA 1	0	aa 4	17	HH	
	MBA 1	1	ac 4	4	KK	
16	MBA 0	0	aa 3	16	JJ	
	MBA 0	1	ac 3	3	LL	
17	MBA 17	0	aa 2	15	MM	
	MBA 17	1	ac 2	2	PP	
18	MBA 16	0	aa 1	14	NN	
	MBA 16	1	ac 1	1	RR	
19						
20						

ONLY 18 pairs in cable.

DRAWN BY HO/kha APPROVED BY DATE 11.2.80	Remarks Twisted cable between plug Burndy - Ansley	Replacement for	Date
		Replaced by	Date

NORSK DATA A.S Oslo, Norway	Title: CABLE FOR DATA PRINTER 1047 CARD USED ON 3009 CARD	Drawing no. 4-9445 D

WIRE NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUG PANEL 2x37 pin plug connection	D.P. SIGNAL	AMP
01	LP0		BERG 95	a20	1	BIT 1	E
	GND		BERG 94	c20	20	RET.	F
02	LP1		BERG 93	a19	2	BIT 2	H
	GND		BERG 92	c19	21	RET.	J
03	LP2		BERG 91	a18	3	BIT 3	K
	GND		BERG 90	c18	22	RET.	L
04	LP3		BERG 89	a17	4	BIT 4	M
	GND		BERG 88	c17	23	RET.	N
05	LP4		BERG 87	a16	5	BIT 5	P
	GND		BERG 86	c16	24	RET.	R
06	LP5		BERG 85	a15	6	BIT 6	S
	GND		BERG 84	c15	25	RET.	T
07	LCB		BERG 83	a14	7	CONT. BIT	a
	GND		BERG 82	c14	26	RET.	b
08	CHREQ		BERG 81	a13	8	CHAR.REQ.	C
	GND		BERG 80	c13	27	RET.	D
09	LSTROB		BERG 79	a12	9	DATA STROBE	A
	GND		BERG 78	c12	28	RET.	B
10			BERG 77	a11	10		
			BERG 76	c11	29		
11	READY		BERG 75	a10	11	READY	h
	GND		BERG 74	c10	30	RET.	j
12	LMCP		BERG 73	a 9	12	MASTER CLEAR	n
	GND		BERG 72	c 9	31	RET	p
13			BERG 71	a 8	13		
			BERG 70	c 8	32		
14	LP 6		BERG 69	a 7	14	BIT 7	U
	GND		BERG 68	c 7	33	RET.	V
15			BERG 67	a 6	15		
			BERG 66	c 6	34		
16			BERG 65	a 5	16		
			BERG 64	c 5	35		
17			BERG 63	a 4	17		
			BERG 62	c 4	36		
18			BERG 61	a 3	18		
			BERG 60	c 3	37		
19			BERG 59	a 2	1		
			BERG 58	c 2	20		
20			BERG 57	a 1	2		
			BERG 56	c 1	21		
21			BERG 55		3		
			BERG 54		22		

DRAWN BY: HO/kha	Remarks: PLUG DATA PRINTER SIDE: AMP - MALE - 201358/1 (HENACO) P74-41	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE: 15.10.80			

NORSK DATA A.S Oslo, Norway	Title TERMINET 310/320/330/340 BUFFERED PARALLEL WITH PARALLEL BYTE OUTPUT 1109 USED ON CARD 3009	Drawing no. 4-9446

NO.	SIGNAL	POLARITY	PLUG BERG	EUROPLUG NORD-100	PLUG PANEL 2x37 pin plug connection		CANNON DB 25 PIN
1	RDY	1	BERG 95	a20	1		13
	GND		BERG 94	c20	20		7
2	STR	0	BERG 93	a19	2		24
	GND		BERG 92	c19	21		7
3	DA 7	1	BERG 91	a18	3		NC
	GND		BERG 90	c18	22		NC
4	DA 6	1	BERG 89	a17	4		14
	GND		BERG 88	c17	23		7
5	DA 5	1	BERG 87	a16	5		12
	GND		BERG 86	c16	24		7
6	DA 4	1	BERG 85	a15	6		18
	GND		BERG 84	c15	25		7
7	DA 3	1	BERG 83	a14	7		8
	GND		BERG 82	c14	26		7
8	DA 2	1	BERG 81	a13	8		3
	GND		BERG 80	c13	27		7
9	DA 1	1	BERG 79	a12	9		2
	GND		BERG 78	c12	28		7
10	DA 0	1	BERG 77	a11	10		11
	GND		BERG 76	c11	29		7
11	STS	1	BERG 75	a10	11		5
	GND		BERG 74	c10	30		7
12			BERG 73	a 9	12		
			BERG 72	c 9	31		
13			BERG 71	a 8	13		
			BERG 70	c 8	32		
14			BERG 69	a 7	14		
			BERG 68	c 7	33		
15			BERG 67	a 6	15		
			BERG 66	c 6	34		
16			BERG 65	a 5	16		
			BERG 64	c 5	35		
17			BERG 63	a 4	17		
			BERG 62	c 4	36		
18			BERG 61	a 3	18		
			BERG 60	c 3	37		
19			BERG 59	a 2	1		
			BERG 58	c 2	20		
20			BERG 57	a 1	2		
			BERG 56	c 1	21		
21			BERG 55		3		
			BERG 54		22		

DRAWN BY HO/kha	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 24.4.80			

NORSK DATA A.S Oslo, Norway	Title TANDBERG TDV 21/2215 ASYNCHRONOUS MODEM	Drawing no. 4 - 94 47 B

WIRE NO.	SIGNAL		MODEM CANNON DB-25-P (MALE) MODED	MODEM CANNON DB-25-S FEMALE TDV		
	TRANSMITTED DATA		2	2	BROWN	
01	RECEIVED DATA		3	3	BLACK	
	REQUEST TO SEND		4	4	GREEN	
02	FEADY FOR SENDING		5	5	BLACK	
	DATA SET READY		6		ORANGE	
03	SIGNAL GROUND		7	7	BLACK	
	CONN:DATA SET TO LINE		20	20,8,6	BLUE	
04	CALLING INDICATOR		22	22	BLACK	
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						

NB! SHIELD CONNECTED TO PIN 1 IN BOTH PLUGS

DRAWN BY HO/ma	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 06.04.81			

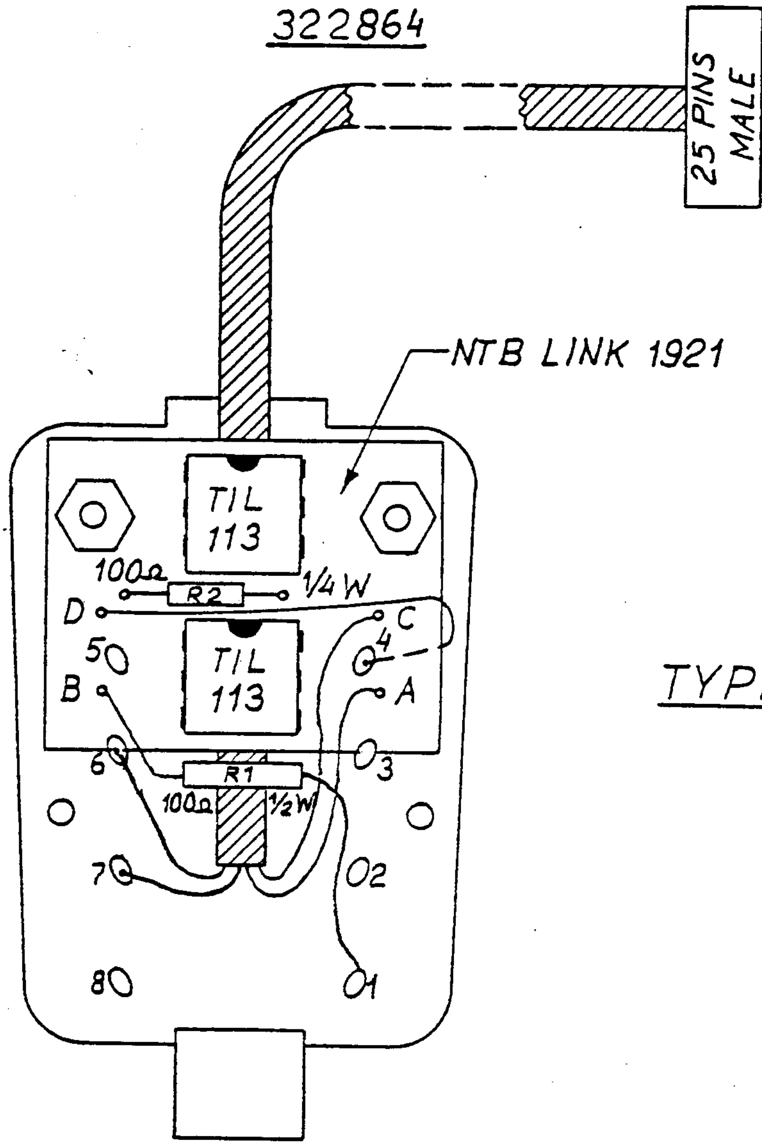
A/S NORSK DATA-ELEKTRONIKK	Title: TTY w/TELEXPLUG (TWX) TDV 2115 w/ TELEXPLUG (2115WX)	Drawing no. 4 - 9448 B

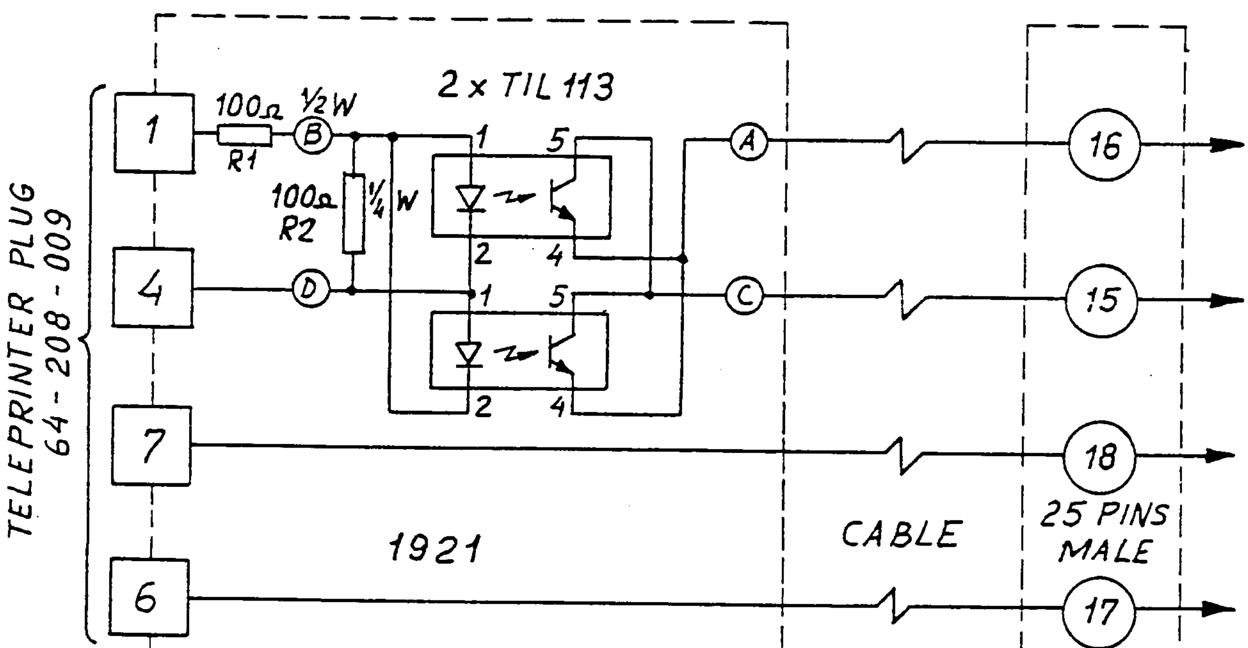
NO.	SIGNAL			PLUG BERG (CPU POS.)	8 PIN BURNDY	8 PIN TELEX 64-908-011 plug or 60-908-011 socket external 60-108-011 socket internal	CANNON DB 25 S	
1	Sign.				A	1	24 and 25	
	GND				B	2	23	
2	Sign.				C	4	13	
	GND				D	3	12	
3					E			
	SCREEN				H	6		
4					F			
					J			
5					K			
					M			
6					L			
					N			
7					P			
					S			
8					R			
					T			
9					U			
					W			
10					V			
					X			
11					Y			
					AA			
12					Z			
					BB			
13					CC			
					EE			
14					DD			
					FF			
15					HH			
					KK			
16					JJ			
					LL			
17					MM			
					PP			
18					NN			
					RR			
19					SS			
					UU			
					TT			
					VV			

EXT: CABLE: 4 PAIR WITH SCREEN

DRAWN BY NJN	Remarks	Replacement for	Date
APPROVED BY 26.8.80		Replaced by	Date

NORSK DATA A.S Oslo, Norway	Title NTB TELEPRINTER INTERFACE DEVICE CABLE WITH 1-4 PLUG MODIFIED 3013 CARD	Drawing no. 4-9449-B

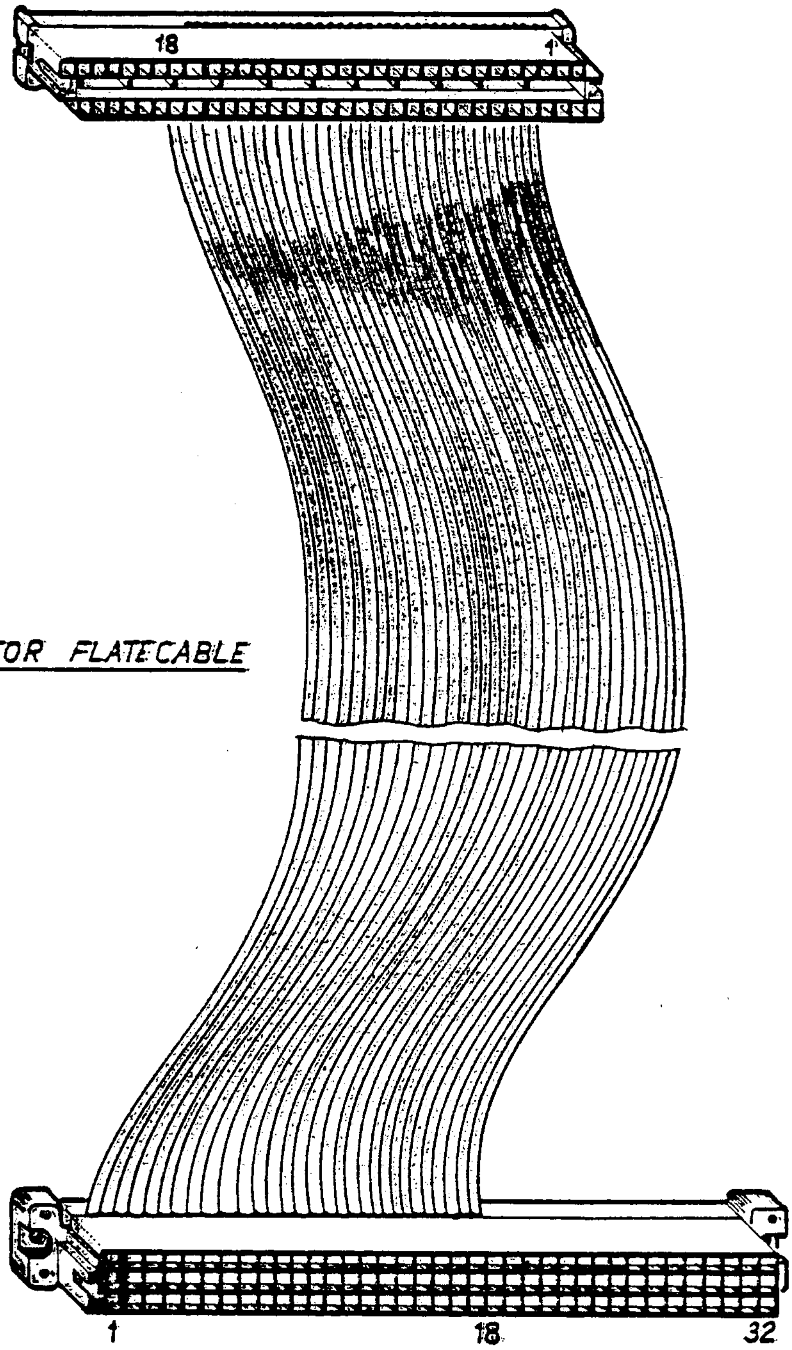




DRAWN BY M/M	Remarks Circuit Diagram Arrangement Drawing Cable List	Replacement for Date
APPROVED BY		Replaced by Date
DATE 16.10.80.		

NORSK DATA A.S Oslo, Norway	Title CONNECTION BETWEEN EURO-BUS 3008 CARD A CONNECTOR AND N-10 I/O MAIN BUS ADDRESS USED IN 11-MOD.	Drawing no. 4-9451

PLUG 3M 3007



ONLY 36 CONDUCTOR FLATCABLE

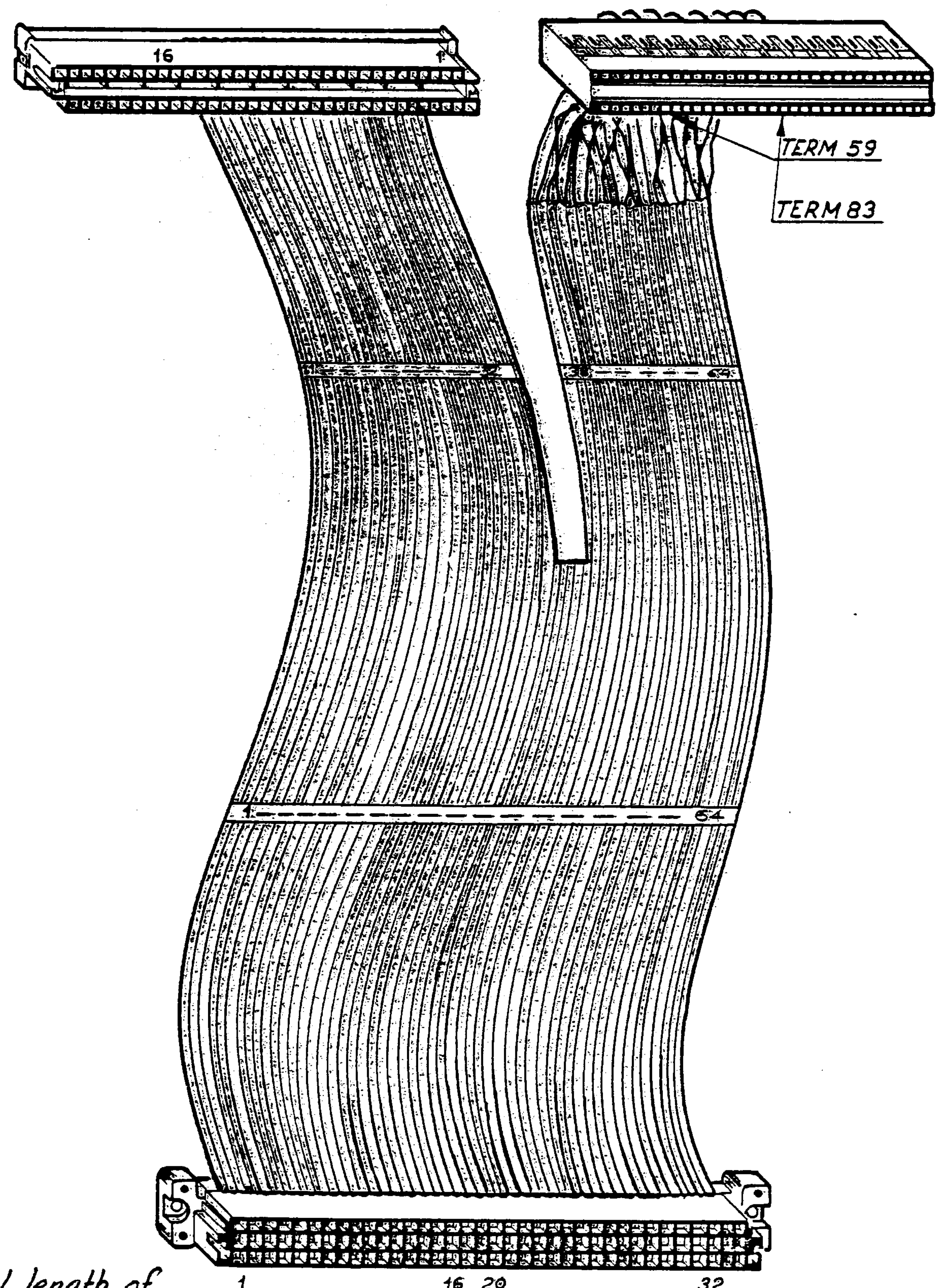
PLUG 3M 3332-0001

TOTAL LENGTH OF CABLE 175 CM

SEE DRAWING NO. 9050

DRAWN BY MJM	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 3.10.80.			

NORSK DATA A.S Oslo, Norway	Title CONNECTION BETWEEN EUROBUS 3008 CARD B-CONNECTOR N-10/ I/O MAINBUS DATA AND CONTROL USED IN 11 MODULES CABINET	Drawing no. 4-9452



Total length of cable 175 cm.

PLUG 3332 - 0001
SEE DRAWING NO. 9048 & 9049

DRAWN BY MJM	Remarks	Replacement for	Date
APPROVED BY			
DATE 8.10.80.		Replaced by	Date

NORSK DATA A.S Oslo, Norway	Title EXTERNAL CABLE N - 100 TO MULTISWITCH ND 845	Drawing no. 4 - 9453

WIRE NO.	SIGNAL	Polarity	EUROPLUG	COMPUTER END 37 P COWER HARTING PIN NO	DEVICE PLUG 25 P COWER HARTING PIN NO	
01				1 20	1 14	
02				2 21	2 15	
03				3 22	3 16	
04				4 23	4 17	
05				5 24	5 18	
06				6 25	6 19	
07				7 26	7 20	
08				8 27	8 21	
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

INTERNAL CABLE TYPE:
EXTERNAL CABLE TYPE 1: 12 pair shielded round cable
EXTERNAL CABLE TYPE 2:
EXTERNAL CABLE TYPE 3:
EXTERNAL CABLE TYPE 4:

In both end of external cable is shield connected to an earth strap with Faston.

DRAWN BY NJN/ma	Remarks	Replacement for	Date
APPROVED BY	DEVICE ND 845	Replaced by	Date
DATE 6.10.80			

A/S NORSK DATA-ELEKTRONIKK	Title: TTY W/TELEXPLUG (TWX) TDV 2215 W/TELEXPLUG (2215WX)	Drawing no. 4 - 9457 B

NO.	SIGNAL.	POLARITY	PLUG BERG CPU POS.	8 PIN BURNDY	8 PIN TELEX 64-908-011 plug or 60-908-011 socket external 60-108-011 socket internal	CANNON DB 25 S
1	SIGN.			A	1	24
	GND			B	2	23
2	SIGN			C	4	13
	GND			D	3	12
3				E		
	SCREEN			H	6	
4				F		
				J		
5				K		
				M		
6				L		
				N		
7				P		
				S		
8				R		
				T		
9				U		
				W		
10				V		
				X		
11				Y		
				AA		
12				Z		
				BB		
13				CC		
				EE		
14				DD		
				FF		
15				HH		
				KK		
16				JJ		
				LL		
17				MM		
				PP		
18				NN		
				RR		
19				SS		
				UU		
20				TT		
				VV		

EXT. CABLE: 4 PAIR WITH SCREEN

DRAWN BY HO/ma	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 18.3.81			

C-DOKUMENTATION FÖR F3-528

PÄRM	MANUAL	
1.	-	Operativsystem version G Sintran III Del 1
2.	-	Operativsystem version G Sintran III Del 2
3.	-	NORD500 Assembler - Reference Manual
	-	ND500 Loader - Monitor
	-	Test Micro Program. Descriptions for ND500
4.	-	Sintran III Introduction
	-	Sintran III
5.	-	NORD100 Functional desciption
	-	NORD100 Microprogramming description
6.	-	NORD100 Input/output system
	-	Floppy disc system
7.	-	EMI - Techincal manual, switching power supply ESP271
	-	Philips - Switshed mode power supply
	-	PE1743 Instruction manual
	-	Tore seem power supply P6010 Instruction manual
	-	Texas Instrument - Omni 800 Operators manual and system manual
	-	Mitzibishi Technical Information 19 V
		High resolution Colour display Monitor Model C-3919 N/C
10.	-	Sintran III Real time loader
		System documentation
	-	Sintran III Real time loader
	-	Sintran III Real time guide

11. - NORD PL Users guide

- BRF editor
- QED users manual
- PED users guide
- MAC Interactiv assemby and debugging system users guide
- ND Relocaling loader

12. - Symbolic debugger users guide

- TRACE routine
- ND Fortran Reference Manual

13. - NORD500 Reference manual

14. - Sintran III Utilities manual

Sintran III Communication guide

Sintran III Timesharing/Batch guide

15. - Nordfile extract utility command, users guide

- Documentation catalogue
- Nord File System, system documentation
- Testprogram description for ND 100/10S Volume 1
- Nord -10 Verification programs

20. - Tandberg Data TDV 2200

Display terminals

Introduction

Main board

Power deflection

Videoboard

Keyboard

Memory board

Interface adapters

Inter connections

Illustrated Parts lists

Updating

21. - Tandberg data TDV 2215 users guide

Users guide

Specification & Installation guide

Ouick Reference guide

Functional specifications

22. Reserv

23. Reserv

24. - Compact simulator Maintenance Manual

Introduction

Computer interface card with bus structure and cable connection

Memory card for analog instruments

26. - CDF-listing

Master-indata listing

27. - Programlistningar - källkod

28. - Programlistningar - källkod

29. - Programlistningar - källord

NORSK DATA A.S

C O N T E N T S

1. PRODUCT INFORMATION

2. CARD ASSEMBLY

3. LOGIC DIAGRAMS

4. WIRING LISTS

5. PLUG LISTS

6. MEMORY

7. OPERATOR PANEL

8. SWITCH SETTINGS

9. POWER SYSTEM

10. MODIFICATIONS

****
******************** ND COMPUTER CONSEPT ********************
****

ND-500 SER. NO.: 062

DATE : 19.04.82

ORDER NO. : 20.1195 SI RESPONSIBLE: BRI

CUSTOMER : STUDSVIK ENERGITEKNIK, NYKØPING

****************** CABINETS ******************

ND-520 : (X)

ND-540 : ( ) N-100 BEX CRATE ( )

AC POWER : 220 VOLTS MEMORY CRATE ( )

****************** MEMORY CONFIGURATION ******************

LOCAL ND-100 MEMORY SIZE : 1/4 MBYTE

MPM-4 MULTIPORT MEMORY SIZE : 1/2 MBYTE

****************** CPU INFORMATION ******************

STANDARD	( )	32 BITS	(X)
FAST	(X)	48 BITS	( )
CE	(X)		

****************** CPU COMMUNICATION ******************

NORDNET : LINES ND 500 (X)

EMULATORS : ________ / ________ / ________ / ________

TYPES

****************** MASS STORAGE/TERMINALS ******************

DISC STORAGE (TOTAL AMOUNT OF MBYTES) : 75 MB

MAG. TAPE. (NUMBERS) : STC : _____ PERTEC : ______

TERMINAL INTERFACES (NUMBERS) : 4

****
****
****

-100/S µP (2K × 4 PROM)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
02600A	A	C	D	E	F	G	G		G	K	K	M	N		
02601A	A	C	D	E	E	G	G		G	K	K	M	N		
02602A	A	C	D	E	E	G	G		G	G	G	M	N		
02603A	B	B	D	E	E	G	H		H	H	H	M	M		
02604A	B	C	D	E	E	G	G		G	K	K	M	M		
02805A	A	C	D	E	E	G	G		J	J	J	M	M		
02606A	A	C	D	D	D	G	G		G	K	L	M	M		
02607A	A	A	D	D	D	G	G		G	G	G	M	M		
02608A	A	A	A	A	A	G	G		G	G	G	M	M		
02609A	A	A	D	D	D	G	G		G	G	G	M	M		
02610A	A	A	D	D	D	G	G		G	G	G	M	M		
02611A	A	A	A	A	A	G	G		G	G	G	M	M		
02612A	A	A	A	A	A	G	G		G	G	G	M	M		
02613A	A	A	D	D	D	G	G		G	K	K	M	M		
02614A	A	C	D	D	D	G	G		G	G	G	M	M		
02615A	A	C	D	E	E	G	G		G	K	K	M	M		
02700A	A	A	A	A	A	G	G		G	G	G	M	M		
02701A	A	A	A	A	A	G	G		G	G	G	M	M		
02702A	A	A	A	A	A	G	G		G	G	G	M	M		
	ECO: 100-69	ECO: 100-70	ECO: 100-71	ECO: 100-72	ECO: 100-78	ECO: 100-96	ECO: 100-112		ECO: 100-113	ECO: 100-124	ECO: 100-125	ECO: 100-161	ECO: 100-162		

N-100/S µP (1K × 4 PROM mounted on 1950) (µMAP in 2K × 4 PROM)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
02400A	A	A	A	E	F										
02401A	A	C	C	E	E										
02402A	A	C	C	E	E										
02403A	A	A	A	E	E										
02404A	A	A	A	E	E										
02905A	A	A	A	E	E										
02406A	A	A	A	A	A										
02407A	A	A	A	A	A										
02408A	A	A	A	A	A										
02409A	A	A	A	A	A										
02410A	A	A	A	A	A										
02411A	A	A	A	A	A										
02412A	A	A	A	A	A										
02413A	A	A	A	A	A										
02414A	A	A	A	A	A										
02415A	A	A	A	E	E										
02416A	A	C	D	D	D										
02417A	A	C	D	D	D										
02418A	A	C	D	D	D										
02419A	B	B	D	D	D										
02420A	B	C	D	D	D										
02921A	A	C	D	D	D										
02422A	A	C	D	D	D										
02423A	A	A	D	D	D										
02424A	A	A	A	A	A										
02425A	A	A	D	D	D										
02426A	A	A	D	D	D										
02427A	A	A	A	A	A										
02428A	A	A	A	A	A										
02429A	A	A	D	D	D										
02430A	A	C	D	D	D										
02431A	A	C	D	D	D										
02700A	A	A	A	A	A										
02701A	A	A	A	A	A										
02702A	A	A	A	A	A										
	ECO: 100-69	ECO: 100-70	ECO: 100-71	ECO: 100-72	ECO: 100-78										

WILL NOT BE UPDATED

N-100/S µP , × 4PROM mounted on 1957)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
02400A	A	A	A	E	F										
02401A	A	C	C	E	E										
02402A	A	C	C	E	E										
02403A	A	A	A	E	E										
02404A	A	A	A	E	E										
02905A	A	A	A	E	E										
02406A	A	A	A	A	A										
02407A	A	A	A	A	A										
02408A	A	A	A	A	A										
02409A	A	A	A	A	A										
02410A	A	A	A	A	A										
02411A	A	A	A	A	A										
02412A	A	A	A	A	A										
02413A	A	A	A	A	A										
02414A	A	A	A	A	A										
02415A	A	A	A	E	E										
02416A	A	C	D	D	D										
02417A	A	C	D	D	D										
02418A	A	C	D	D	D										
02419A	B	B	D	D	D										
02420A	B	C	D	D	D										
02921A	A	C	D	D	D										
02422A	A	C	D	D	D										
02423A	A	A	D	D	D										
02424A	A	A	A	A	A										
02425A	A	A	D	D	D										
02426A	A	A	D	D	D										
02427A	A	A	A	A	A										
02428A	A	A	A	A	A										
02429A	A	A	D	D	D										
02430A	A	C	D	D	D										
02431A	A	C	D	D	D										
02500A	A	A	A	A	A										
02501A	A	A	A	A	A										
02502A	A	A	A	A	A										
02503A	A	A	A	A	A										
02504A	A	A	A	A	A										
02505A	A	A	A	A	A										
	ECO: 100-69	ECO: 100-70	ECO: 100-71	ECO: 100-72	ECO: 100-78										

WILL NOT BE UPDATED

OBS! 32 BITS FLOATING

		ID NO 322602
CORRECTED ACCORDING TO ECO 100-69,70,71	18/12/79	BW
100-72, 100-78, 100-96, 100-112/113, 100-	30/10/80	AL
124, 100-125, 100-161, 162	20/08/81	BW
Corrected	Date	Sign.
N-100 CPU µ PROGRAM MAP	Board no.	Drawn BW 26.979 / Contr. SEJ / Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	Replaced by	

100/S μp (2K × 4 PROM)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
05200A	B																		
05201A	B																		
05202A	B																		
05203A	B																		
05204A	B																		
05205A	B																		
05206A	B																		
05207A	B																		
05208A	B																		
05209A	B																		
05210A	B																		
05211A	B																		
05212A	B																		
05213A	B																		
05214A	B																		
05215A	B																		
05300A	B																		
05301A	B																		
05302A	B																		
	ECO: 100-163																		

Extended instruction set.
Can not be used alone.

ID. NO. 322602		
CORRECTED ACCORD. TO ECO 100-163	20/08/81	BW
Corrected	Date	Sign.
N-100 CPU μ PROGRAM MAP	Scale	Drawn BW 10/04/81; Contr. ESK; Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	Replaced by	

PERIPHERAL CONFIGURATION ND-500

	MANUFACTURER	ND NO	TYPE	SER. NO.	REMARKS
MASS STORAGE	CDC	514	75MB DISC	58-948	
	SHUGART	310	FLOPPY DRIVE	91-1763	
PERIPHERALS IO & DMA	TEXAS INSTR.	230S	OMNI-800	114-906	
	TANDBERG	242S	TDV-2215	125-2671	
POWER	PHILIPS		PE-1743	1222	FLOPPY
	TORE SEEM		P-6010	240	5V 150A,ND100
	E M I		EMP-355/3	82080006	5V 220A,ND500
	PHILIPS		PE-1759-01	173	STAND-BY
	E M I		ESP-271/3	81350632	+ 5 V , MPM4
OTHER					

```
*******************************************************************
***********************     PLUG PANEL 1     **********************
*******************************************************************
*                                                                 *
*                   PLUG TYPE                        PLUG TYPE    *
*                   ---------                        ---------    *
*                  .2.3.4.5.6.                      .2.3.4.5.6.   *
*                  .5.7.2.0.4.                      .5.7.2.0.4.   *
*                  . . . . . .                      . . . . . .   *
*                  .P.P.P.P.P.                      .P.P.P.P.P.   *
*                  .I.I.I.I.I.                      .I.I.I.I.I.   *
*                  .N.N.N.N.N.                      .N.N.N.N.N.   *
*                                                                 *
*-----------------------------------------------------------------*
*  1.01 CONSOL     .X. . . . .                                    *
*     2 OP-PANEL   . .X. . . .                                    *
*  3.01            . . . . . .    8.01              . . . . . .   *
*     2            . . . . . .       2              . . . . . .   *
*     3            . . . . . .       3              . . . . . .   *
*     4            . . . . . .       4              . . . . . .   *
*     5            . . . . . .       5              . . . . . .   *
*     6            . . . . . .       6              . . . . . .   *
*     7            . . . . . .       7 FLOPPY       .X. . . . .   *
*     8            . . . . . .       8 FLOPPY       .X. . . . .   *
*                                                                 *
*  4.01            . . . . . .    9.01 TERM 1       .X. . . . .   *
*     2            . . . . . .       2 TERM 2       .X. . . . .   *
*     3            . . . . . .       3 TERM 3       .X. . . . .   *
*     4            . . . . . .       4 TERM 4       .X. . . . .   *
*     5            . . . . . .       5              . . . . . .   *
*     6            . . . . . .       6              . . . . . .   *
*     7            . . . . . .       7              . . . . . .   *
*     8            . . . . . .       8              . . . . . .   *
*                                                                 *
*  5.01            . . . . . .    10.1  LOCAL I/O A . .X. . . .   *
*     2            . . . . . .       2  LOCAL I/O A . .X. . . .   *
*     3 ND 500     .X. . . . .       3  LOCAL I/O B . .X. . . .   *
*     4 ND 500     .X. . . . .       4  LOCAL I/O B . .X. . . .   *
*     5            . . . . . .       5              . . . . . .   *
*     6            . . . . . .       6              . . . . . .   *
*     7            . . . . . .       7              . . . . . .   *
*     8            . . . . . .       8              . . . . . .   *
*                                                                 *
*  6.01 SMD CONTROL 1 . .X. . . .  11.1              . . . . . .   *
*     2 SMD CONTROL 2 . .X. . . .     2              . . . . . .   *
*     3 SMD CONTROL 3 . .X. . . .     3              . . . . . .   *
*     4 SMD CONTROL 4 . .X. . . .     4              . . . . . .   *
*     5            . . . . . .       5              . . . . . .   *
*     6            . . . . . .       6              . . . . . .   *
*     7            . . . . . .       7              . . . . . .   *
*     8            . . . . . .       8              . . . . . .   *
*                                                                 *
*  7.01            . . . . . .    12.1              . . . . . .   *
*     2            . . . . . .       2              . . . . . .   *
*     3  SMD TRANSMIT . .X. . . .     3              . . . . . .   *
*     4  SMD RECEIVE  . .X. . . .     4              . . . . . .   *
*     5            . . . . . .       5              . . . . . .   *
*     6            . . . . . .       6              . . . . . .   *
*     7            . . . . . .       7              . . . . . .   *
*     8            . . . . . .       8              . . . . . .   *
*                                                                 *
*******************************************************************
*******************************************************************
*******************************************************************
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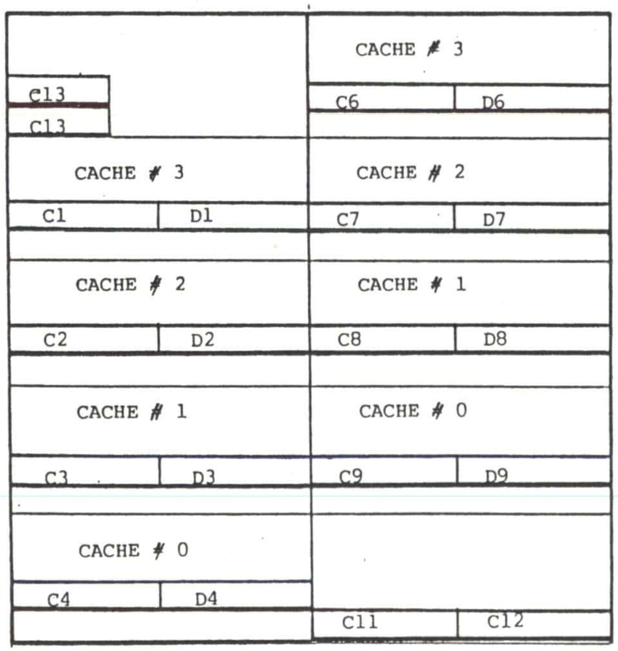
```
*************************************************************************
**********************    PLUG PANEL 2    *******************************
*************************************************************************
*                                                                       *
*                        PLUG TYPE                          PLUG TYPE   *
*                        ---------                          ---------   *
*                       .2.3.4.5.6.                        .2.3.4.5.6.  *
*                       .5.7.2.0.4.                        .5.7.2.0.4.  *
*                       . . . . . .                        . . . . . .  *
*                       .P.P.P.P.P.                        .P.P.P.P.P.  *
*                       .I.I.I.I.I.                        .I.I.I.I.I.  *
*                       .N.N.N.N.N.                        .N.N.N.N.N.  *
*                                                                       *
*-----------------------------------------------------------------------*
*                                                                       *
* 13.01                 . . . . . .   18.01                . . . . . .  *
*     2                 . . . . . .       2                . . . . . .  *
*     3                 . . . . . .       3                . . . . . .  *
*     4                 . . . . . .       4                . . . . . .  *
*     5                 . . . . . .       5                . . . . . .  *
*     6                 . . . . . .       6                . . . . . .  *
*     7                 . . . . . .       7                . . . . . .  *
*     8                 . . . . . .       8                . . . . . .  *
*                                                                       *
* 14.01                 . . . . . .   19.01                . . . . . .  *
*     2                 . . . . . .       2                . . . . . .  *
*     3                 . . . . . .       3                . . . . . .  *
*     4                 . . . . . .       4                . . . . . .  *
*     5                 . . . . . .       5                . . . . . .  *
*     6                 . . . . . .       6                . . . . . .  *
*     7                 . . . . . .       7                . . . . . .  *
*     8                 . . . . . .       8                . . . . . .  *
*                                                                       *
* 15.01 BUS MASTER DATA . . . .X.      20.1                . . . . . .  *
*     2 BUS MASTER ADDR.. . . .X.         2                . . . . . .  *
*     3                 . . . . . .       3                . . . . . .  *
*     4                 . . . . . .       4                . . . . . .  *
*     5                 . . . . . .       5                . . . . . .  *
*     6                 . . . . . .       6                . . . . . .  *
*     7                 . . . . . .       7                . . . . . .  *
*     8                 . . . . . .       8                . . . . . .  *
*                                                                       *
* 16.01                 . . . . . .    21.1                . . . . . .  *
*     2                 . . . . . .       2                . . . . . .  *
*     3                 . . . . . .       3                . . . . . .  *
*     4                 . . . . . .       4                . . . . . .  *
*     5                 . . . . . .       5                . . . . . .  *
*     6                 . . . . . .       6                . . . . . .  *
*     7                 . . . . . .       7                . . . . . .  *
*     8                 . . . . . .       8                . . . . . .  *
*                                                                       *
* 17.01                 . . . . . .    22.1                . . . . . .  *
*     2                 . . . . . .       2                . . . . . .  *
*     3                 . . . . . .       3                . . . . . .  *
*     4                 . . . . . .       4                . . . . . .  *
*     5                 . . . . . .       5                . . . . . .  *
*     6                 . . . . . .       6                . . . . . .  *
*     7                 . . . . . .       7                . . . . . .  *
*     8                 . . . . . .       8                . . . . . .  *
*                                                                       *
*                                                                       *
*************************************************************************
*************************************************************************
*************************************************************************
```

PLUG-PANEL ND 500 (CENTER-BUTTOM OF CABINET)

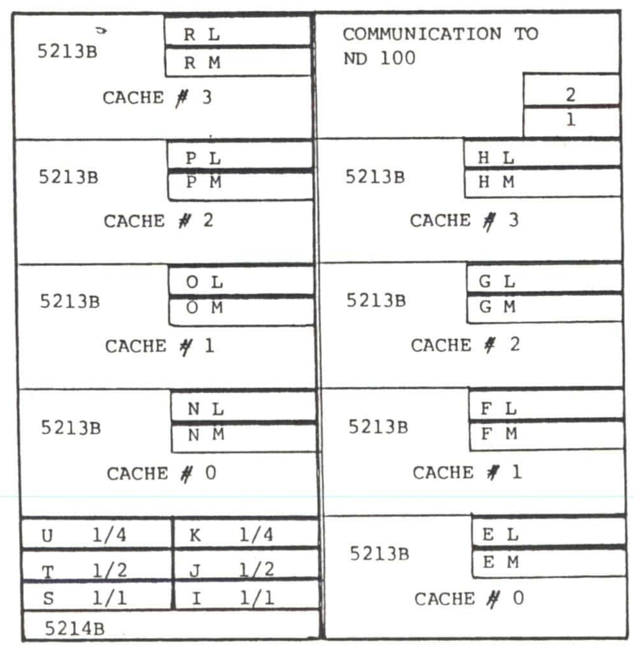
PLUG DEFINITIONS:

EM - INSTR.DATA MOST	NM - DATA DATA MOST	K - INSTR.ADDR.1/4
EL - INSTR.DATA LEAST	NL - DATA DATA LEAST	J - INSTR.ADDR.1/2
FM - INSTR.DATA MOST	OM - DATA DATA MOST	I - INSTR.ADDR.1/1
FL - INSTR.DATA LEAST	OL - DATA DATA LEAST	
GM - INSTR.DATA MOST	PM - DATA DATA MOST	
GL - INSTR.DATA LEAST	PL - DATA DATA LEAST	U - DATA ADDR. 1/4
HM - INSTR.DATA MOST	RM - DATA DATA MOST	T - DATA ADDR. 1/2
HL - INSTR.DATA LEAST	RL - DATA DATA LEAST	S - DATA ADDR. 1/1

RIBBONCABLING BETWEEN ND-500 CPU (ROW C&D) TO
REAR SIDE OF ND-500 PLUG-PANEL.

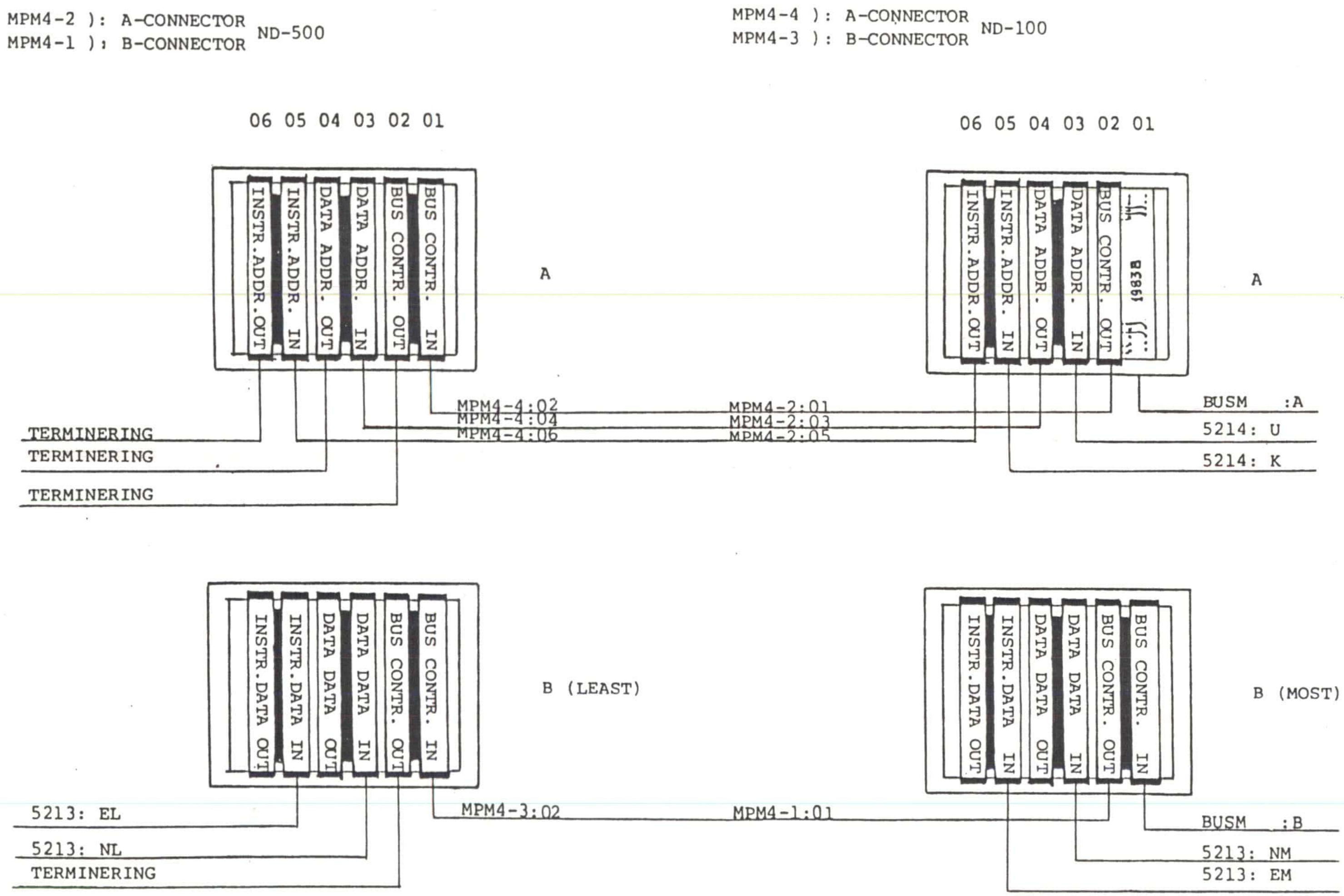


RIBBONCABLING BETWEEN ND-500 PLUG-PANEL
AND DEFINED MPM4 - CRATE - CONFIGURATION.

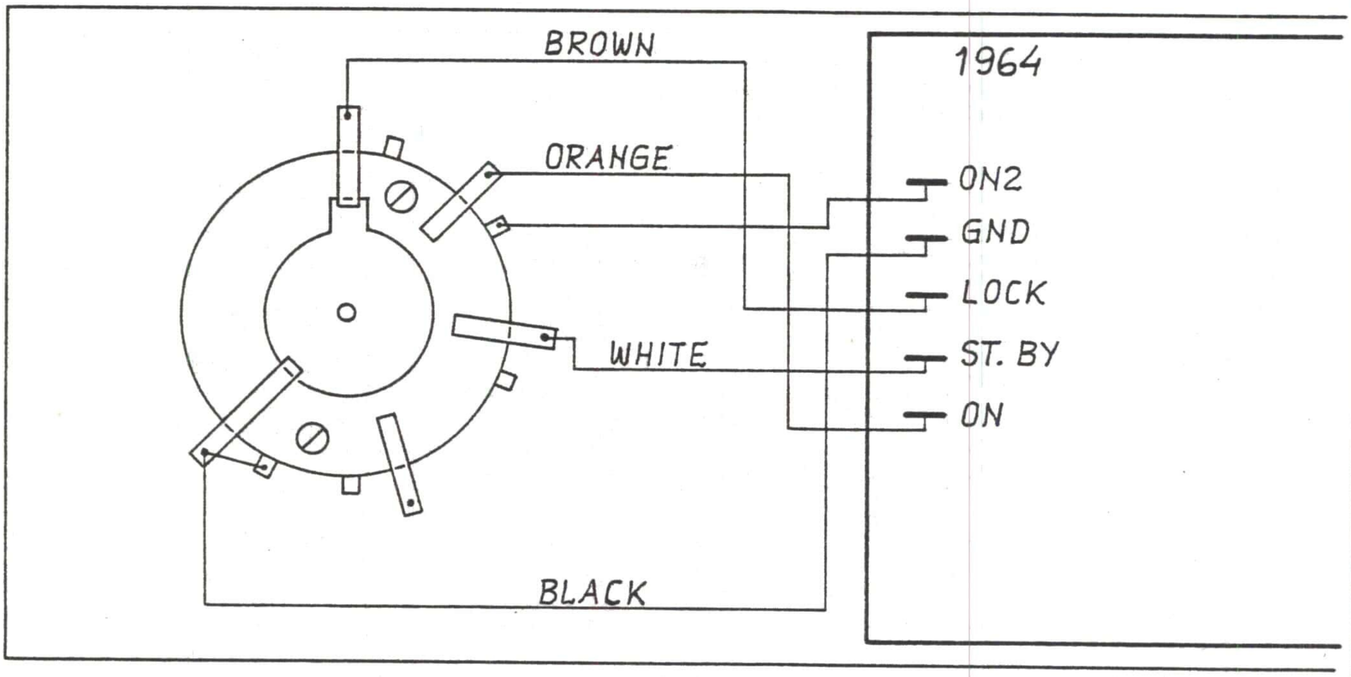


PLUG-PANEL CONFIGURATION

ND 500 M I N I



NORSK DATA A.S Oslo, Norway	Title CONNECTION BETWEEN 1964 AND 4 POS. KEY SWITCH	Drawing no. 4-9455



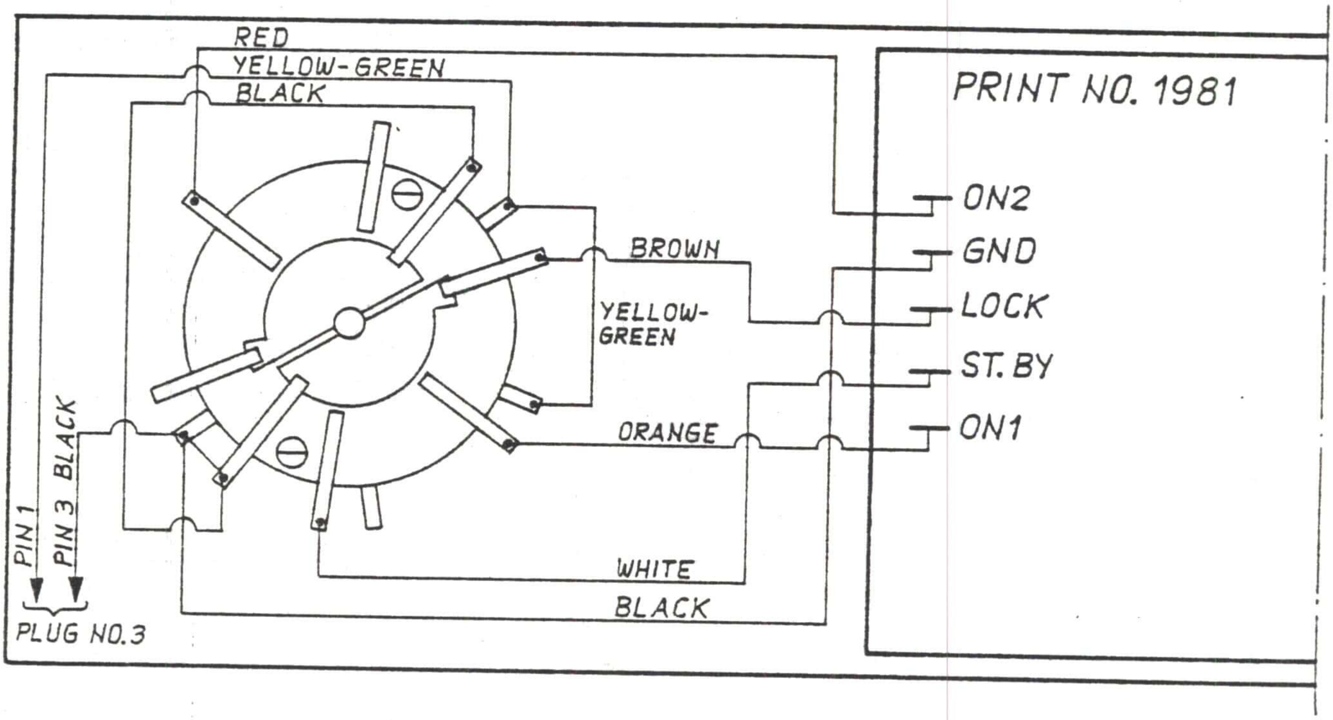
OPERATOR PANEL, REAR VIEW

CORRECTED 21/05/79/SEJ/Eml

DRAWN BY KA/Eml	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 20.2.79			

NORSK DATA A.S Oslo, Norway	Title NORD-100 KEY SWITCH CONNECTION	Drawing no. 4-9456

CABLE DIMENSION 0,3 mm^2

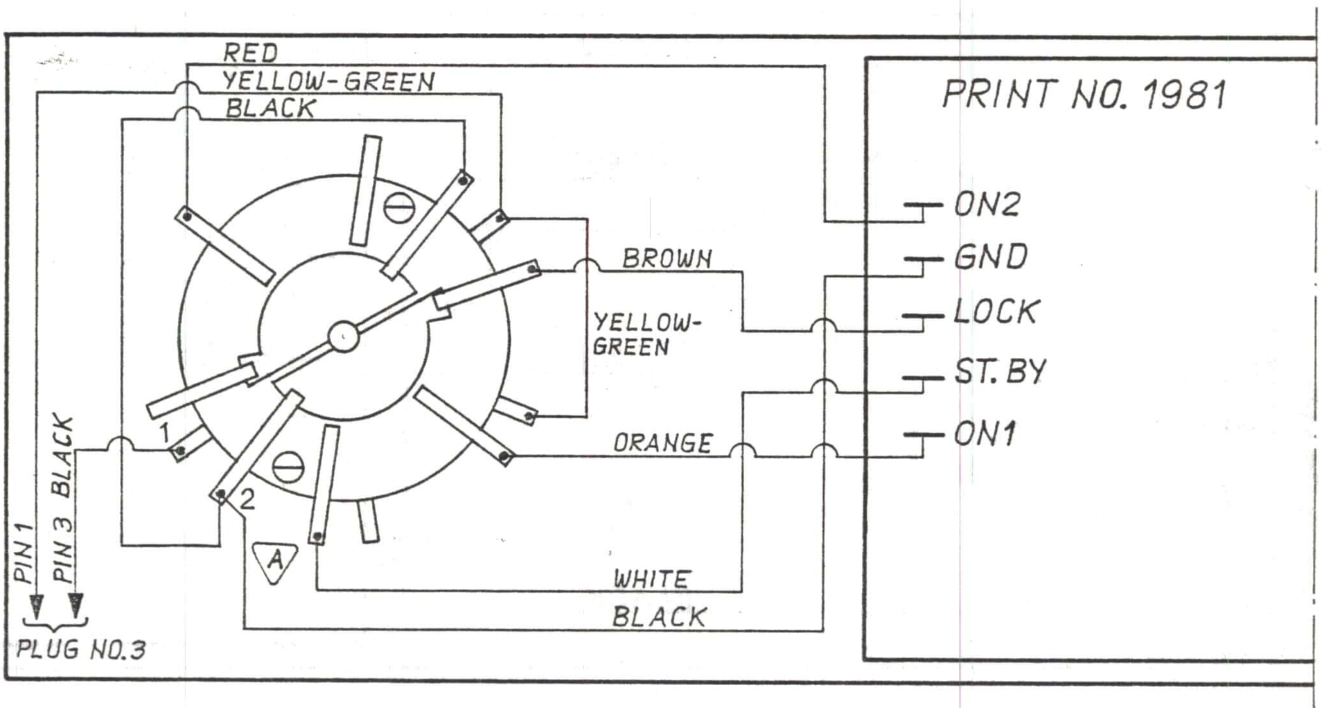


OPERATOR PANEL, REAR VIEW

DRAWN BY HO/Emil APPROVED BY DATE 09.10.80	Remarks RERLACES DRAWING NO. 4-9455 FOR BOTH VERSION OF NORD-100	Replacement for	Date
		Replaced by	Date

NORSK DATA A.S Oslo, Norway	Title NORD-100-500 A KEY SWITCH CONNECTION	Drawing no. 4-9456

CABLE DIMENSION 0,3 mm^2

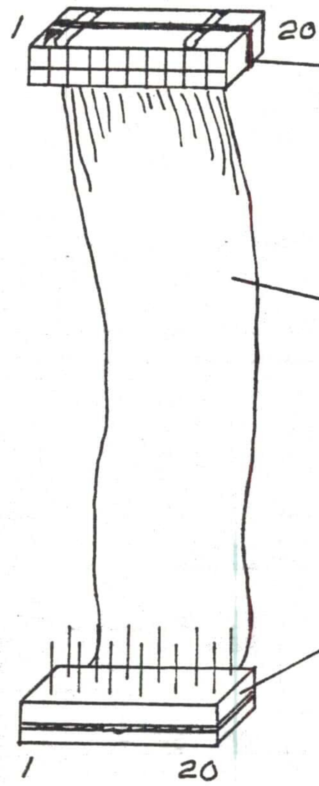


OPERATOR PANEL, REAR VIEW

A 2 corrected 12.02.81 . H.O.

DRAWN BY HO/ Emil	Remarks RERLACES DRAWING NO. 4-9455	Replacement for	Date
APPROVED BY	FOR BOTH VERSION OF NORD-100	Replaced by	Date
DATE 09.10.80			

A/S NORSK DATA-ELEKTRONIKK	Title: Cable displey unit N-100	Drawing no. 9017



1 piece Socket connector
3421 3M (with codetrace)
or, Ansley 609-2001

1 piece flatcable
20 leder 150mm long.

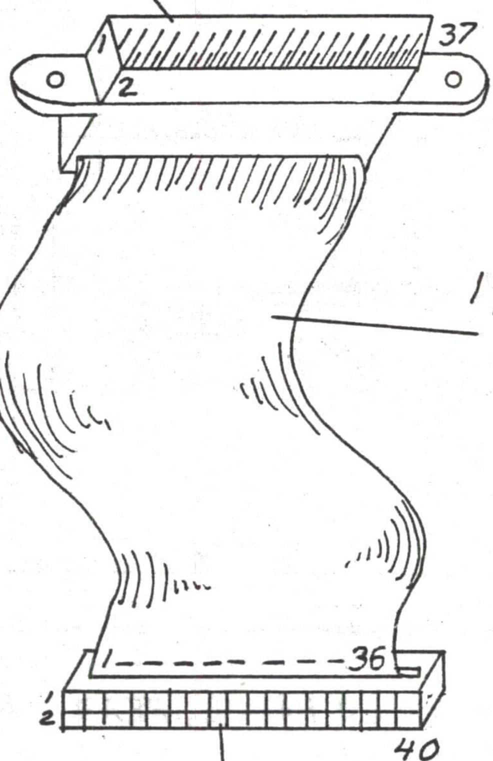
1 piece PCB connector
3422-0000T 3M
20 pins.
or, Ansley 609-2003

SEE DRG. NO. 3-9324.

DRAWN BY A.G.	Remarks	Replacement for	Date
APPROVED BY KA		Replaced by	Date
DATE 20/12-78			

A/S NORSK DATA-ELEKTRONIKK	Title: Internal cable operator's panel (1946) N-100	Drawing no. 9018

1 piece Male D-connectors Ansley 37 pins
609- 37 P



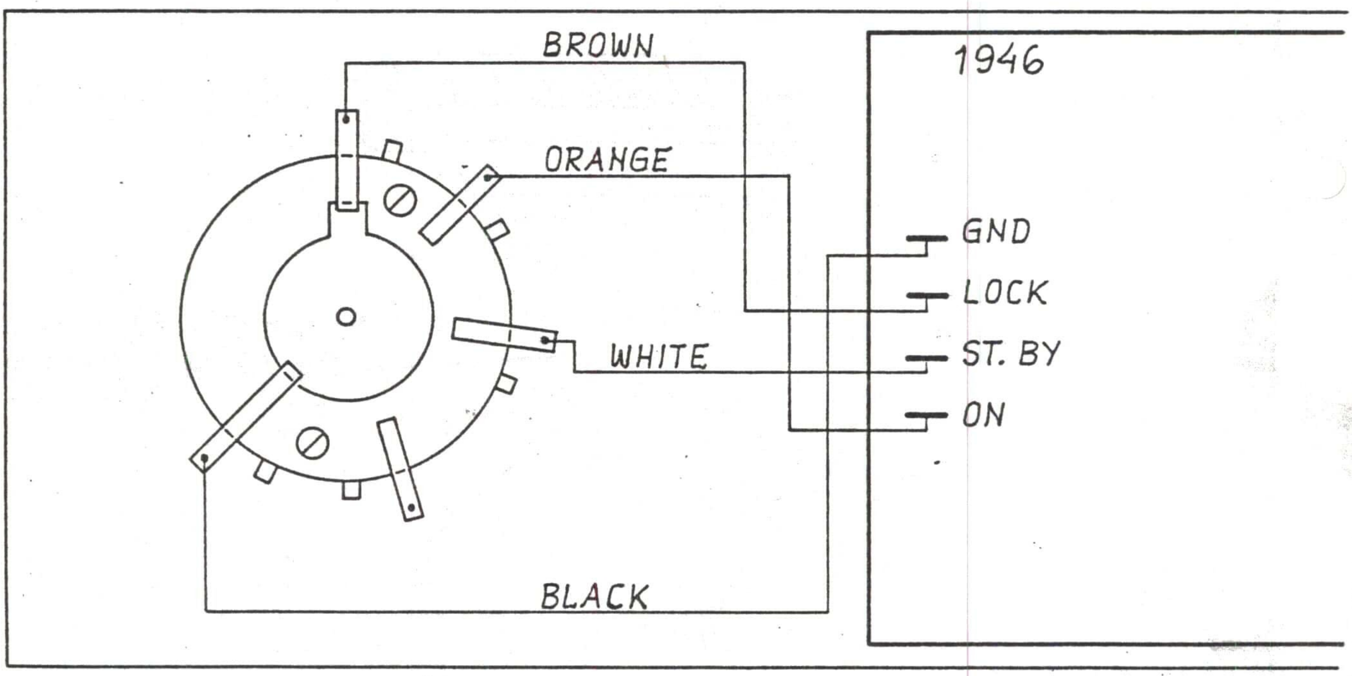
1 piece flat cable
36 leder 1300 mm
long.

1 piece socket connector 40 pins
3417-3000 3M Or Ansely 609-4001 M
with strain-releief, Pul tab. 3490-4.

SEE DRG. NO.3-9324

DRAWN BY	A.G.	Remarks	Replacement for	Date
APPROVED BY	KA		Replaced by	Date
DATE	20/12-78			

NORSK DATA A.S Oslo, Norway	Title CONNECTION BETWEEN 1946 AND 4 POS. KEY SWITCH	Drawing no.



OPERATOR PANEL, REAR VIEW

DRAWN BY KA/Emil	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 20.2.79			

NORSK DATA A.S	Title: Operator Panel Console terminal N-100	Drawing No. 3-9324

WIRE NO.	SIGNAL	POLARITY	EUROPLUG PIN NO.	PLUGPANEL 25 pin + 37 pin "D"-connector PIN NO.	DEVICE PLUG 40 pin select conn. PIN NO.	PANEL DISPLAY PLUG 20 pin HEADER	
1	GND		c 1				
2	GND		a 1				
3	ALD 2		c 2				
4	ALD 3		a 2				
5	ALD 0		c 3				
6	ALD 1		a 3				
7	BS 2		c 4				
8	BS 3		a 4				
9	BS 0		c 5				
10	BS 1		a 5				
11	GND		c 6	1			
12	GND		a 6	14			
13	NC		c 7	2			
14	I1+		a 7	15			
15	NC		c 8	3			
16	I2-		a 8	16			
17	NC		c 9	4			
18	01+		a 9	17			
19	NC		c 10	5			
20	02-		a 10	18			
21	GND		c 11				
22	GND		a 11				
23	SWRST	0	c 12				
24	SWRST	1	a 12				
25	SWSIN	0	c 13				
26	SWSIN	1	a 13				
27	SWCONT	0	a 13				
28	SWCONT	1	a 14				
29	SWLD	0	c 15	37	36		
30	SWLD	1	a 15	18	35		
31	SWMCL	0	c 16	36	34		
32	GND		a 16	17	33		
33	SWSTP	0	c 17	35	32		
34	GND		a 17	16	31		
35	RUN	0	c 18	34	30		
36	GND		a 18	15	29		
37	ENAUTO	0	c 19	33	28		
38	GND		a 19	14	27		
39	LOCK	0	c 20	32	26		
40	GND		a 20	13	25		
41	CONSOLE	0	c 21	31	24		
42	GND		a 21	12	23		
43	+5V	0	c 22	30	22		
44	GND		a 22	11	21 # 2		
45	POWOFF	0	c 23	29	20		
46	GND	0	a 23	10	19		
47	DPO	0	c 24	28	18		
48	GND		a 24	9	17	3	
49	DP1	0	c 25	27	16	4	
50	GND		a 25	8	15	5	
51	DP2	0	c 26	26	14	6	
52	GND		a 26	7	13	7	# 3
53	DP3	0	c 27	25	12	8	
54	GND		a 27	6	11	9	
55	DP4	0	c 28	24	10	10	
56	GND		a 28	5	9	11	
57	DP5	0	c 29	23	8	12	
58	GND		a 29	4	7	13	
59	CONSOLE	0	c 30	22	6	14	
60	ON 2	0	a 30	3	5	15	
61	+12V		c 31	21	4	16	
62	+5V		a 31	2	3	17	
63	GND		c 32	20	2	18	
64	GND		a 32	1	1	19	
						20	

INTERNAL CABLE TYPE : 64 wire flatcable

EXTERNAL CABLE TYPE 1:

EXTERNAL CABLE TYPE 2: 36 wire flatcable

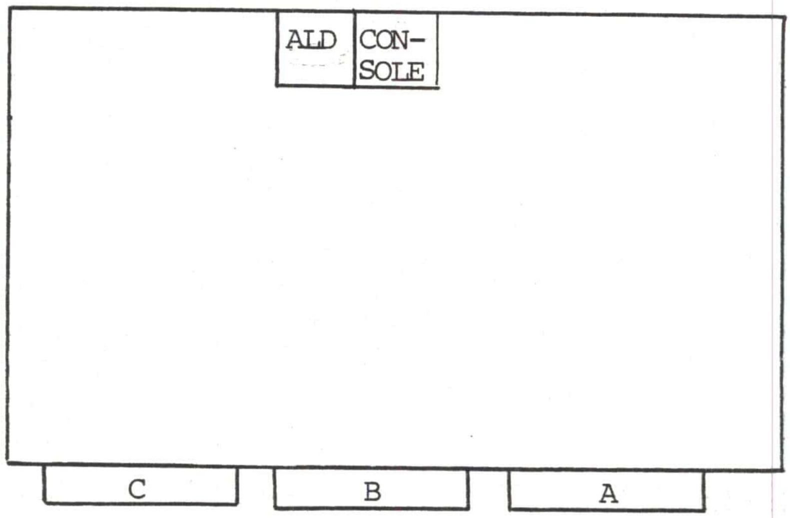
EXTERNAL CABLE TYPE 3: 20 wire flatcable

EXTERNAL CABLE TYPE 4:

Drawn by	Remarks	Replacement for	Date
Approved	A-connector on 3002	Replaced by	Date
Date			

N-100 SWITCH SETTINGS

322602 CPU



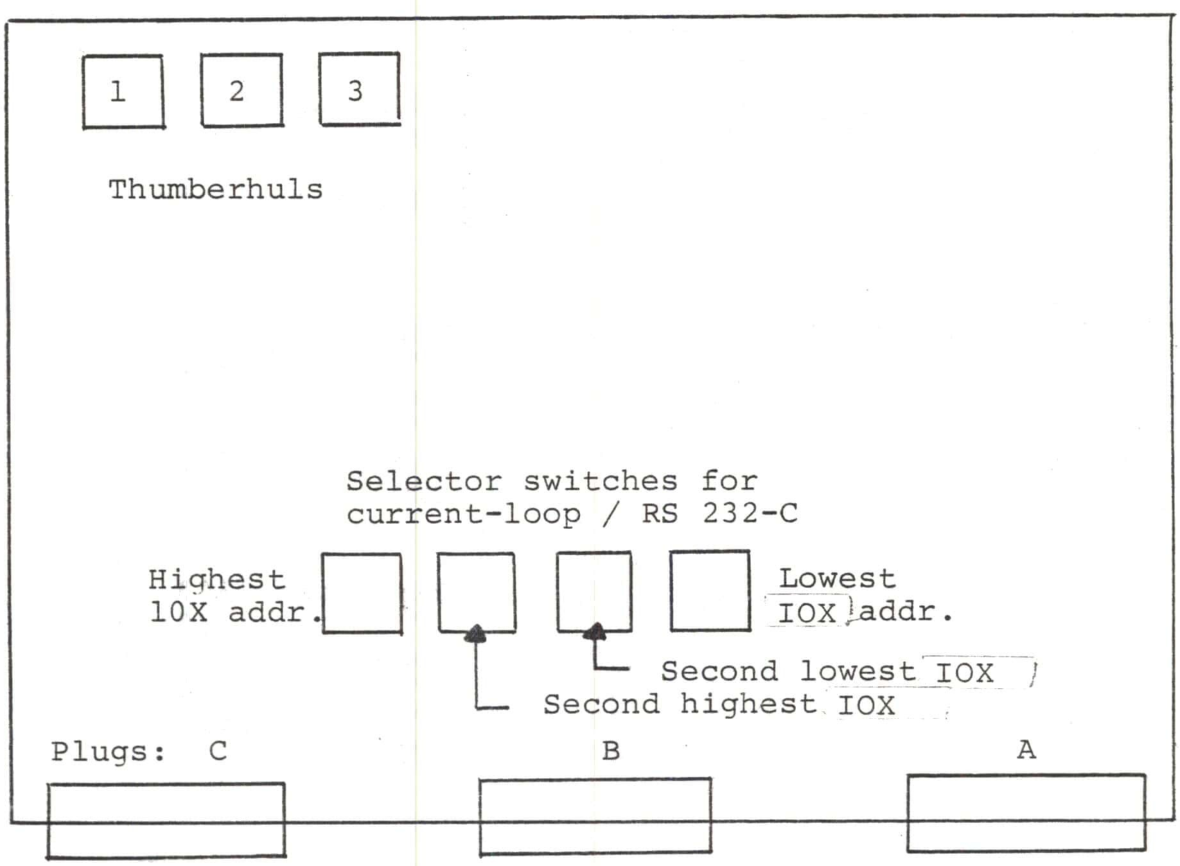
ALD: AUTOMATIC LOAD DESCRIPTOR

	I 12	LOCK AND SB POWER OK	LOCK AND SB POWER NOT OK OR UNLOCK AND LOAD
0			
1			
2	101600	Bin. load 1600	Bin. load 1600
3	100400	" " 400	" " 400
4	121540	Mass. " 1540	Mass. " 1540
5	120500	" " 500	" " 500
6	101560	Bin. " 1560	Bin. " 1560
7	100000	STOP	STOP
8			
9			
10	1600	Start in addr. 20	Bin. load 1600
11	400	" " " 20	" " 400
12	21540	" " " 20	Mass. " 1540
13	20500	" " " 20	" " 500
14	1560	" " " 20	" " 1560
15	0	" " " 20	STOP

CONSOLE: SPEED SETTING FOR CONSOLE TERMINAL

0	110	baud
1	150	"
2	300	"
3	2400	"
4	1200	"
5	1800	"
6	4800	"
7	9600	"
8	2400	"
9	600	"
10	200	"
11	134,5	"
12	75	"
13	50	"
14	-	"
15	-	"

SWITCHES ON 3010 - MODULE



1 = Floppy disc system
2 = Terminal group
3 = Initial bandrate for terminals

Floppy disc system:

```
0 = Floppy system No. 1 (IOX 1560 - 1567, IDENT = 21)
1 = Floppy system No. 2 (IOX 1570 - 1577, IDENT = 22)

2 - 15 are unused, will answer on IOX 0 - 7.

2   Terminal group.  Each group consists of four terminals
    with consecutive IOX-addresses and ident codes.

 0 = Terminals  1 -  4 (IOX  300 - IOX  340, IDENT 120 - 123)
 1 =    "       5 -  8 (IOX  340 - IOX  370, IDENT  44 -  47)
 2 =    "       9 - 12 (IOX 1300 - 1330, IDENT  50 -  53)
 3 =    "      13 - 16 (IOX 1340 - 1370, IDENT  54 -  57)
 4 =    "      33 - 36 (IOX  640 -  670, IDENT 124 - 127)
 5 =    "      37 - 40 (IOX 1100 - 1130, IDENT 130 - 133)
 6 =    "      41 - 44 (IOX 1140 - 1170, IDENT 134 - 137)
 7 =    "      45 - 48 (IOX 1400 - 1430, IDENT 140 - 143)
 8 =    "      49 - 52 (IOX 1500 - 1530, IDENT 144 - 147)
 9 =    "      53 - 56 (IOX 1640 - 1670, IDENT 150 - 153)
10 =    "      57 - 60 (IOX 1700 - 1730, IDENT 154 - 157)
11 =    "      61 - 63 (IOX 1740 - 1770, IDENT 160 - 163)
12 = Async. modem  1 -  4 (IOX  200 -  230, IDENT 60 - 63)
13 =    "     "    5 -  8 (IOX  240 -  270, IDENT 64 - 67)
14 =    "     "    9 - 12 (IOX 1200 - 1230, IDENT 70 - 73)
15 =    "     "   13 - 16 (IOX 1240 - 1270, IDENT 74 - 77)

Initial baudrate for terminals:

 0 =  110  baud
 1 =  150   "
 2 =  300   "
 3 = 2400   "
 4 = 1200   "
 5 = 1800   "
 6 = 4800   "
 7 = 9600   "
 8 = 2400   "
 9 =  600   "
10 =  200   "
11 =  134,5 "
12 =   75   "
13 =   50   "
14 = unused
15 = unused

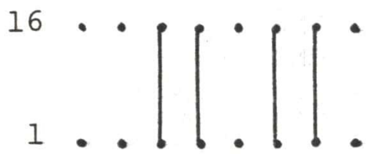
Selector switches for current-loop / RS 232-C.
Switch set to 0 selects current-loop.
Switch set to 1 selects RS 232-C.
```

This description is correct for the 2-position switch.

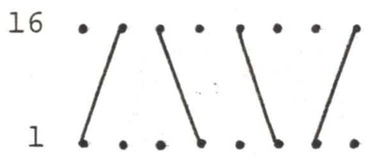
If a hexadesimal switch is used:

0 = current-loop
F = RS 232-C

If component houses are used:

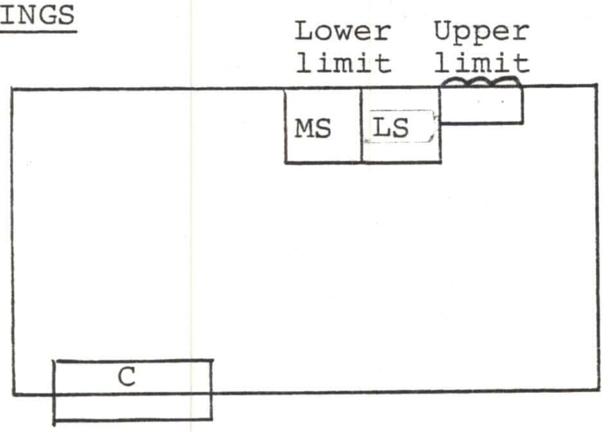


Selects current-loop



Selects RS 232-C

MEMORY SETTINGS



Lower limit is a 2 digit octal number, determining lower memory address.

Upper limit is automatically displayed according to actual memory size.

The limit address increments are 16k units, such that:
Octal Address = 40.000 x limit.

Lower limit	Size	Upper limit	Address range
0 0	16k	0 1	0 - 16k
0 0	32k	0 2	0 - 32k
0 0	64k	0 4	0 - 64k
0 3	32k	0 5	48k - 80k
0 3	64k	0 7	48k - 112k
3 0	64k	3 4	448 - 512k

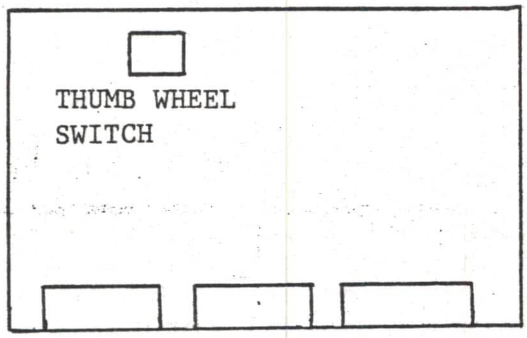
The switches can be set to numbers 8 - 15, but only 0 - 7 has a meaning normally. It is, however, possible to allow the slot position code determine the address range by putting lower limit to 88. (This is only meaningful for 64k). Then the address ranges will be:

Slot	Lower limit	Size	Upper limit	
12	88	64K	04	0 - 64k
11	88	"	10	64 - 128k
10	88	"	14	.
9	88	"	20	.
8	88	"	24	.
7	88	"	30	.
6	88	"	34	384 - 448k
5	88	"	40	448 - 512k

etcc

7.3.79 KA/agfr

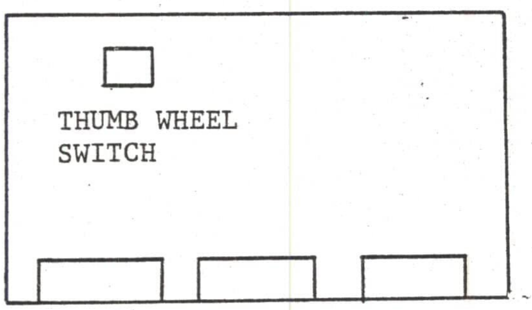
SWITCH SETTING ON CARD 3004 (10MB DISC).



Switch pos 0: Dev. no. 500-507, ident no. 1 (disc system 1)
" " 1: " " 510-517, " " 5 (" " 2)
" " 5-15: Not used

IOX address bit 15 active will inhibit this card.

SWITCH SETTING ON CARD 3006 (PERTEC MAG TAPE)

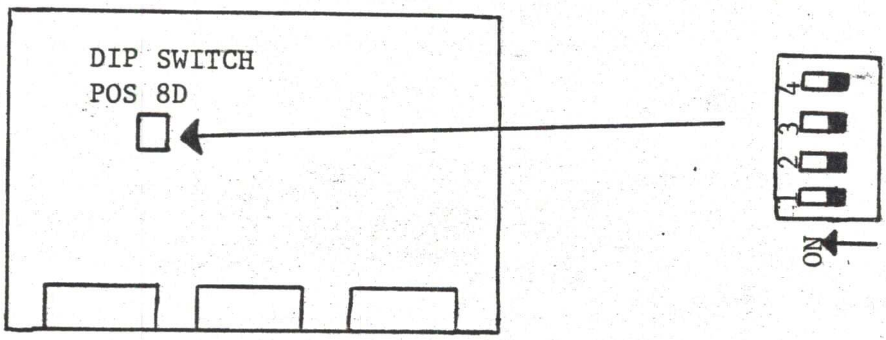


Switch pos 2: Dev. no. 520-527, ident no. 3 (mag tape 1)
" " 3: " " 530-537, " " 7 (" " 2)
" " 4-15: Not used.

IOX address bit 15 active will inhibit this card.

13/3/79/HS/kho

SWITCH SETTING ON CARD 3008 (EURO BUS (LINE) ADAPTER)



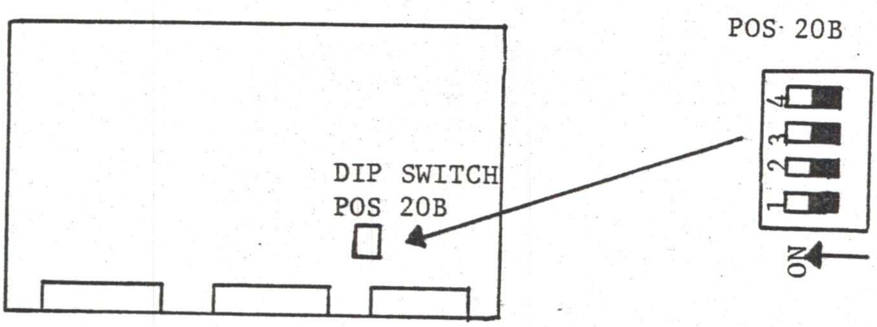
SWITCH 1 = OFF: $0 \leq$ DEV NO ≤ 3777, $0 \leq$ IDENT NO ≤ 377
SWITCH 1 = ON: $2000 \leq$ DEV NO ≤ 3777, $400 \leq$ IDENT NO ≤ 777

SWITCH 2 = OFF: NORMAL
SWITCH 2 = ON: BLOCK ALL INTERFACES ON THIS BUS

SWITCH 3 & 4: Not used

IOX address bit 15 active will inhibit this card.

SWITCH SETTING ON CARD 3009 (LOCAL I/O BUS)



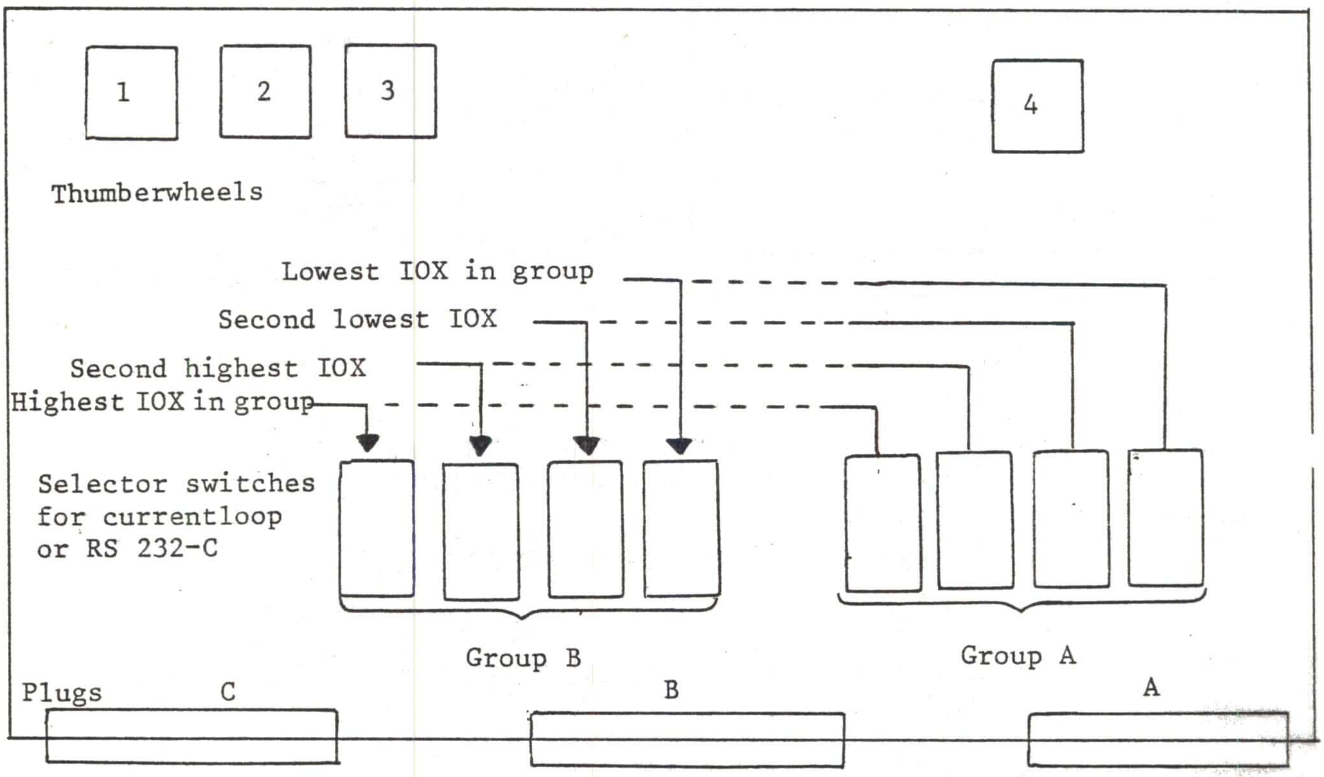
SWITCH 1 = OFF: $0 \leq$ DEV NO ≤ 1777, $0 \leq$ IDENT NO ≤ 377
SWITCH 1 = ON: $2000 \leq$ DEV NO ≤ 3777, $400 \leq$ IDENT NO ≤ 777

SWITCH 2 = OFF: NORMAL
SWITCH 2 = ON: BLOCK ALL INTERFACES ON THIS BUS

SWITCH 3 & 4: Not used

IOX address bit 15 active will block this card.

Switches on 3013 module.



Thumberwheels:

1 = Terminal group A
2 = Terminal group B
3 = Initial band rate for group B
4 = Initial band rate for group A

Group B uses the B-plug and group A uses the A-plug.

Panel plug	Group/channel	
1	B	0
2	B	1
3	B	2
4	B	3
5	A	0
6	A	1
7	A	2
8	A	3

2 Terminal groups. Each group consists of four terminals with consecutive IOX-addresses and ident codes.

0 =	Terminals 1 - 4	(IOX 300 - IOX 340, IDENT 120 - 123)
1 =	" 5 - 8	(IOX 340 - IOX 370, IDENT 44 - 47)
2 =	" 9 - 12	(IXO 1300 - 1330, IDENT 50 - 53)
3 =	" 13 - 16	(IOX 1340 - 1370, IDENT 54 - 57)
4 =	" 33 - 36	(IOX 640 - 670, IDNET 124 - 127)
5 =	" 37 - 40	(IOX 1100 - 1130, IDENT 130 - 133)
6 =	" 41 - 44	(IOX 1140 - 1170, IDENT 134 - 137)
7 =	" 45 - 48	(IOX 1400 - 1430, IDENT 140 - 143)
8 =	" 49 - 52	(IOX 1500 - 1530, IDENT 144 - 147)
9 =	" 53 - 56	(IOX 1640 - 1670, IDENT 150 - 153)
10 =	" 57 - 60	(IOX 1700 - 1730, IDENT 154 - 157)
11 =	" 61 - 63	(IOX 1740 - 1770, IDENT 160 - 163)
12 =	Async. modem 1 - 4	(IOX 200 - 230, IDENT 60 - 63)
13 =	" " 5 - 8	(IOX 240 - 270, IDENT 64 - 67)
14 =	" " 9 - 12	(IOX 1200 - 1230, IDENT 70 - 73)
15 =	" " 13 - 16	(IOX 1240 - 1270, IDENT 74 - 77)

Initial baudrate for terminals:

0 =	110	baud
1 =	150	"
2 =	300	"
3 =	2400	"
4 =	1200	"
5 =	1800	"
6 =	4800	"
7 =	9600	"
8 =	2400	"
9 =	600	"
10 =	200	"
11 =	134,5	"
12 =	75	"
13 =	50	"
14 =	unused	
15 =	unused	

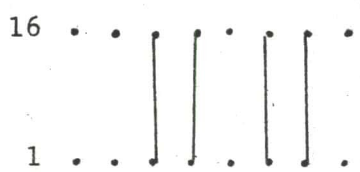
Selector switches for current-loop / RS 232-C.
Switch set to 0 selects current-loop.
Switch set to 1 selects RS 232-C.

This description is correct for the 2-position switch.

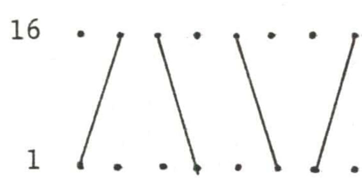
If a hexidecimal switch is used:

0 = current-loop
F = RS 232-C

If component houses are used:

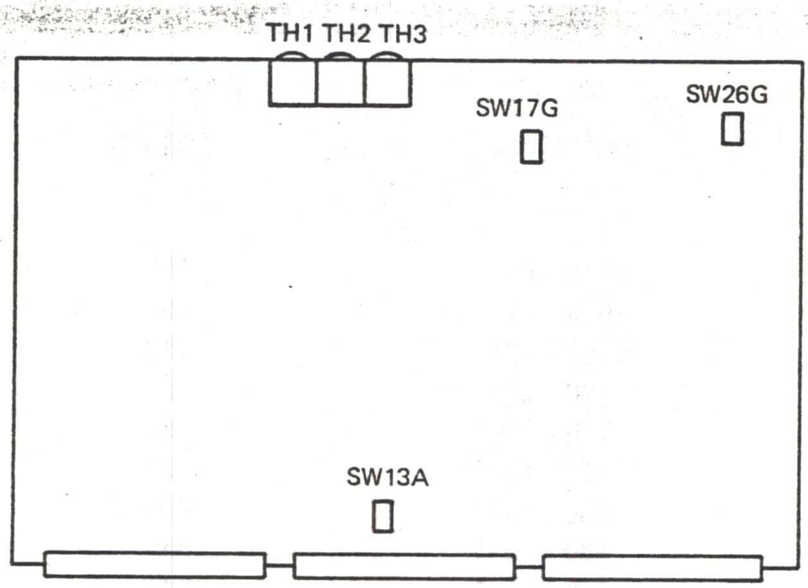


Selects current-loop



Selects RS 232-C

3015 SWITCH SETTINGS



TH: Thumbwheel

SW: Switches

SW ON = 1
SW OFF = 0

SW 13A

4	3	2	1	
X	X	0	0	X 21
X	X	0	1	Computer link
X	X	1	0	V 35
X	X	1	1	V 24 / X 21 bis

SW 17G

4	3	2	1	
			0	Disable MCL
		0		Disable LOAD
	0			Disable RML
0				Disable CLOAD

SW 26G*

4	3	2	1	
X	X	0	X	Disable Baud rate osc.
X	0	X	X	Disable main clock

* This should always be ON

TH1/7.8J
BAUD RATE

0 =	307Kbaud
3 =	1.2Kbaud
6 =	9.6Kbaud
7 =	38.4Kbaud
8 =	153.6Kband
9 =	76.8Kbaud
11 =	19.2Kbaud
13 =	4.8Kbaud
14 =	2.4Kbaud

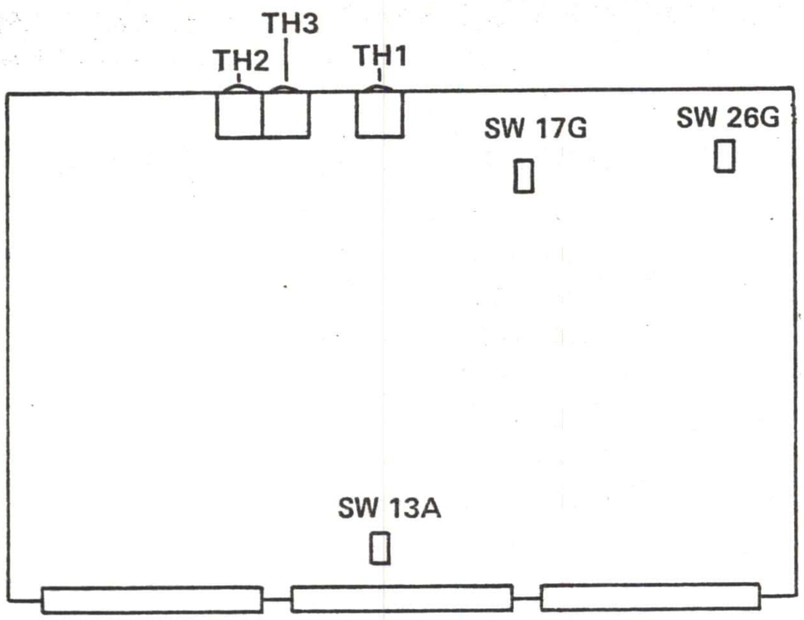
HDLC DEVICE NUMBERS (PROM 01700 B)

	TH. WHEEL (10/11J)	DEV.NO.	IDENT
HDLC 1	0	1640 - 1657	150
HDLC 2	1	1660 - 1677	151
HDLC 3	2	1700 - 1717	152
HDLC 4	3	1720 - 1737	153
HDLC 5	4	1740 - 1757	154
HDLC 6	5	1760 - 1777	155
HASP 1	6	560 - 577	156
HASP 2	7	620 - 637	157
HASP 3	8	700 - 717	160
HASP 4	9	720 - 737	161
HASP 5	10	1500 - 1517	162
HASP 6	11	1520 - 1537	163

AUTOLOAD DEVICE NUMBERS

	(9J) TH. WHEEL2	DEV.NO.	NO IDENT
	(0	1600 -1603)	NOT ALLOWED
AUTOLOAD 1	1	1604 - 1607	
AUTOLOAD 2	2	1610 - 1613	
AUTOLOAD 3	3	1614 - 1617	
AUTOLOAD 4	4	1620 - 1623	
AUTOLOAD 5	5	1624 - 1627	
AUTOLOAD 6	6	1630 - 1633	
AUTOLOAD 7	7	1634 - 1637	
	8-15		NOT ALLOWED

3023 B SWITCH SETTINGS



TH: Thumbwheel

SW: Switches

SW ON = 1
SW OFF = 0

SW 13A

4	3	2	1	
X	X	0	1	Busy enable
X	X	1	0	Busy disable

SW 17G

4	3	2	1	
			0	Disable BMCL
		0		Disable LOAD
	0			Disable RML
0				Disable CLOAD

SW 26G

6 5 4 3 2 1	
0 1 0 1 1 X	Baud rate via TH1
0 1 1 0 1 X	Special 0.6 Mbaud
1 1 0 0 1 X	Special 1 Mbaud
X 0XX XX	Main osc. test
XX XX0 X	Baudrate osc. test

TH1/13J
BAUD RATE

0 =	307.2Kbaud
3 =	1.2Kbaud
6 =	9.6Kbaud
7 =	38.4Kbaud
8 =	153.6Kband
9 =	76.8Kbaud
11 =	19.2Kbaud
13 =	4.8Kbaud
14 =	2.4Kbaud

MEGALINK DEVICE NUMBERS (DEV. NO.)

	TH. WHEEL (10/11J)	DEV.NO.	IDENT
MEGALINK 1	0	1640 - 1657	150
MEGALINK 2	1	1660 - 1677	151
MEGALINK 3	2	1700 - 1717	152
MEGALINK 4	3	1720 - 1737	153
MEGALINK 5	4	1740 - 1757	154
MEGALINK 6	5	1760 - 1777	155

* EXTENSION TO MORE THAN 6 MEGALINKS IS POSSIBLE ON SPECIAL REQUEST.

AUTOLOAD DEVICE NUMBERS

	(9J) TH. WHEEL		
	(0	1600 -1603)	NOT ALLOWED
AUTOLOAD 1	1	1604 - 1607	
AUTOLOAD 2	2	1610 - 1613	
AUTOLOAD 3	3	1614 - 1617	
AUTOLOAD 4	4	1620 - 1623	
AUTOLOAD 5	5	1624 - 1627	
AUTOLOAD 6	6	1630 - 1633	
AUTOLOAD 7	7	1634 - 1637	
	8-15		NOT ALLOWED

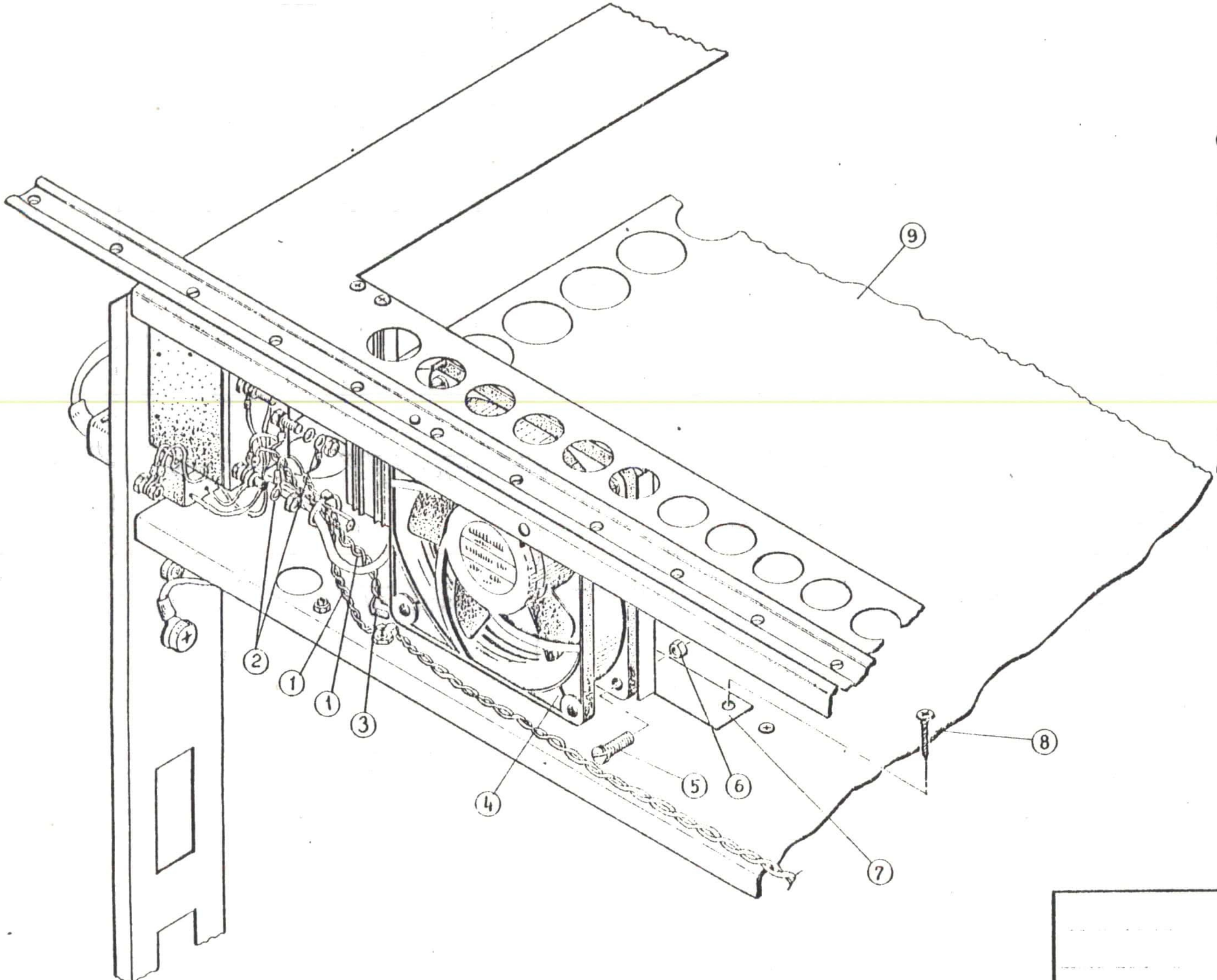
MEGALINK DEVICE NUMBERS IN THE JET CONFIGURATION

JET-1

	Device nr.	Ident
Megalink 1	1640	150
Megalink 2	1660	151
Megalink 3	1700	152
Megalink 4	1720	153
Megalink 5	1740	154
Megalink 6	1760	155
Megalink 7	2000	200
Megalink 8	2020	201
Megalink 9	2040	202
Megalink 10	2060	203
Megalink 11	2100	204
Megalink 12	2120	205
Megalink 13	2140	206
Megalink 14	2160	207
Megalink 15	2200	210
Megalink 16	2220	211

JET—2

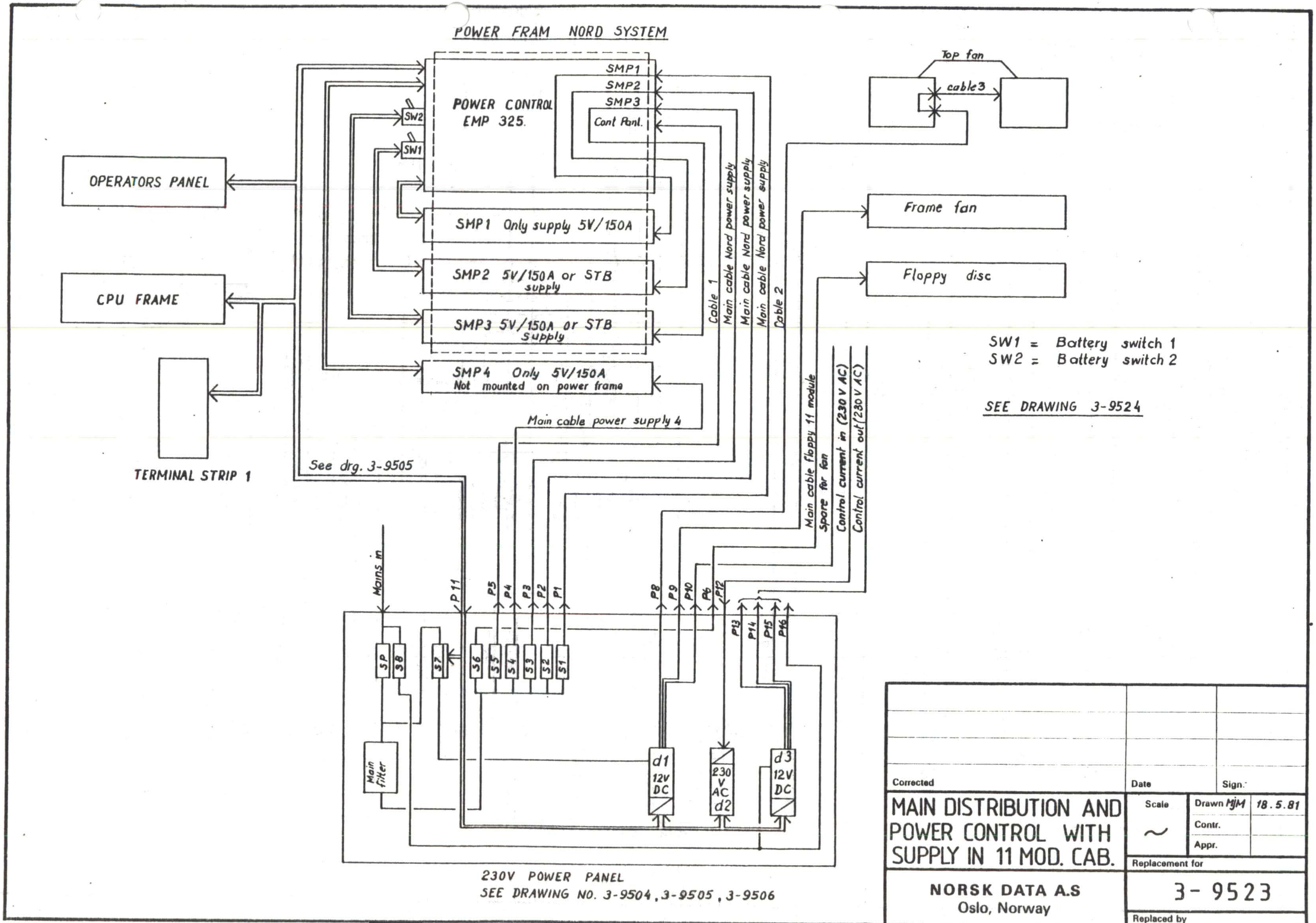
	Device nr.	Ident
Megalink 17	2240	212
Megalink 18	2260	213
Megalink 19	2300	214
Megalink 20	2320	215
Megalink 21	2340	216
Megalink 22	2360	217
Megalink 23	2400	220
Megalink 24	2420	221
Megalink 25	2440	222
Megalink 26	2460	223
Megalink 27	2500	224
Megalink 28	2520	225
Megalink 29	2540	226
Megalink 30	2560	227
Megalink 31	2600	230
Megalink 32	2620	231



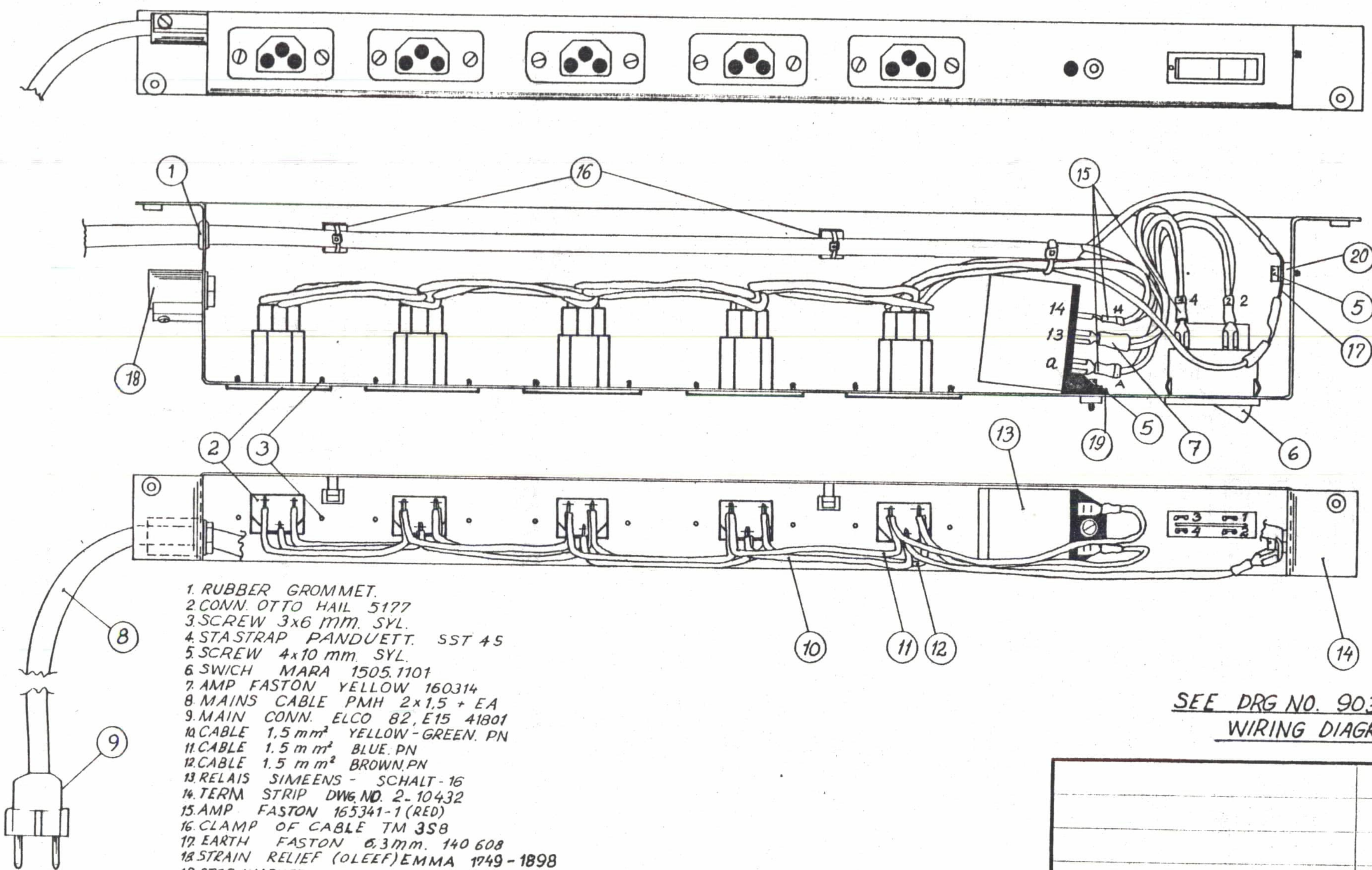
1. BROWN/BLUE PNL 0,75 MM^2
   LENGTH 23 CM
2. AMP RING 31890-0
3. FASTON 140821-1
4. FAN TYPE PAPST 4650N
5. 4 x 10 MM CYL. SCREW
6. 4 MM NUT
7. MOUNTING BRACKET DRAWING
   NO. 3- 10269.
8. POZI SCREW
9. N-100 ELECTRONIC MODULE

Corrected	Date	Sign.

FORCED COOLING N/100 POWER SUPPLY	Scale	Drawn MJM 22.10.79. Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-[illegible]360	
	Replaced by	



POWER FRAM NORD SYSTEM
POWER CONTROL EMP 325.
SMP1
SMP2
SMP3
Cont Panl.
SW2
SW1
SMP1 Only supply 5V/150A
SMP2 5V/150A or STB supply
SMP3 5V/150A or STB Supply
SMP4 Only 5V/150A Not mounted on power frame
OPERATORS PANEL
CPU FRAME
TERMINAL STRIP 1
Top fan
cable3
Frame fan
Floppy disc
SW1 = Battery switch 1
SW2 = Battery switch 2
SEE DRAWING 3-9524
Cable 1
Main cable Nord power supply
Main cable Nord power supply
Main cable Nord power supply
Cable 2
Main cable power supply 4
See drg. 3-9505
Main cable floppy 11 module
Spare for fan
Control current in (230 V AC)
Control current out (230 V AC)
Mains in
P11
P5
P4
P3
P2
P1
P8
P9
P10
P6
P12
P13
P14
P15
P16
SP
S8
S7
S6
S5
S4
S3
S2
S1
Main filter
d1 12V DC
230 V AC d2
d3 12V DC
230V POWER PANEL
SEE DRAWING NO. 3-9504, 3-9505, 3-9506
Corrected
Date
Sign.
MAIN DISTRIBUTION AND POWER CONTROL WITH SUPPLY IN 11 MOD. CAB.
Scale
~
Drawn MJM 18.5.81
Contr.
Appr.
Replacement for
NORSK DATA A.S
Oslo, Norway
3-9523
Replaced by



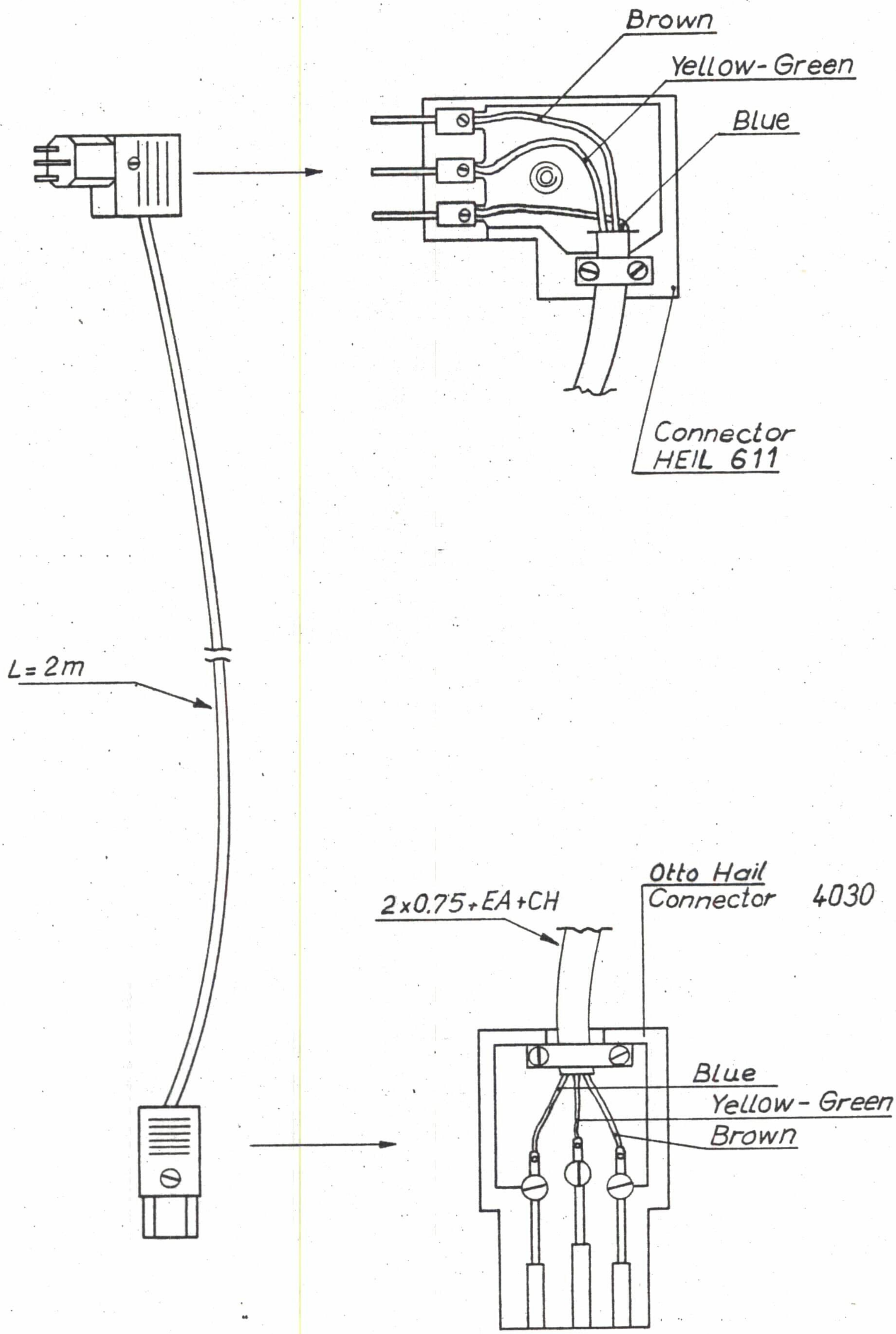
1. RUBBER GROMMET.
2. CONN. OTTO HAIL 5177
3. SCREW 3x6 mm. SYL.
4. STASTRAP PANDUETT. SST 45
5. SCREW 4x10 mm. SYL.
6. SWICH MARA 1505.1101
7. AMP FASTON YELLOW 160314
8. MAINS CABLE PMH 2x1,5 + EA
9. MAIN CONN. ELCO 82, E15 41801
10. CABLE 1,5 mm² YELLOW-GREEN. PN
11. CABLE 1.5 mm² BLUE. PN
12. CABLE 1.5 mm² BROWN.PN
13. RELAIS SIMEENS - SCHALT-16
14. TERM STRIP DWG.NO. 2-10432
15. AMP FASTON 165341-1 (RED)
16. CLAMP OF CABLE TM 3S8
17. EARTH FASTON 6,3mm. 140 608
18. STRAIN RELIEF (OLEEF) EMMA 1749-1898
19. STOP WASHER
20. SPRING WASHER.

SEE DRG NO. 9037
WIRING DIAGRAM

TERMINAL STRIP ASSEMBLY 322814

Corrected	Date	Sign.
IEC TERMINAL STRIP N-100	Scale	Drawn MJM. 8.5.79.
		Contr.
		Appr.
NORSK DATA A.S Oslo, Norway	Replacement for	9014
	Replaced by	

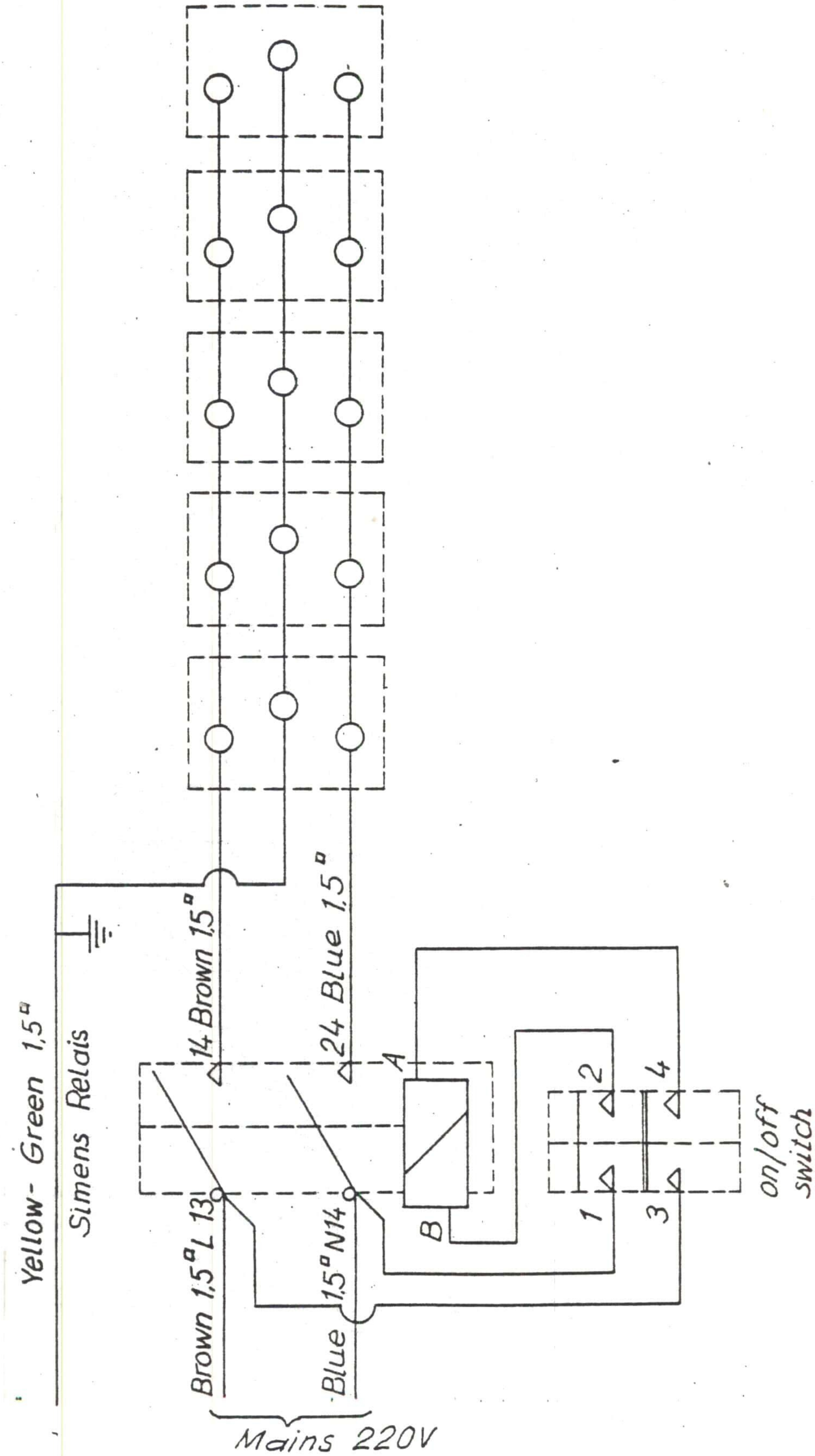
A/S NORSK DATA-ELEKTRONIKK	Title: MAINS CABLE FOR FLOOPY DISK N-100 OG FALCON DISK	Drawing no. 9036



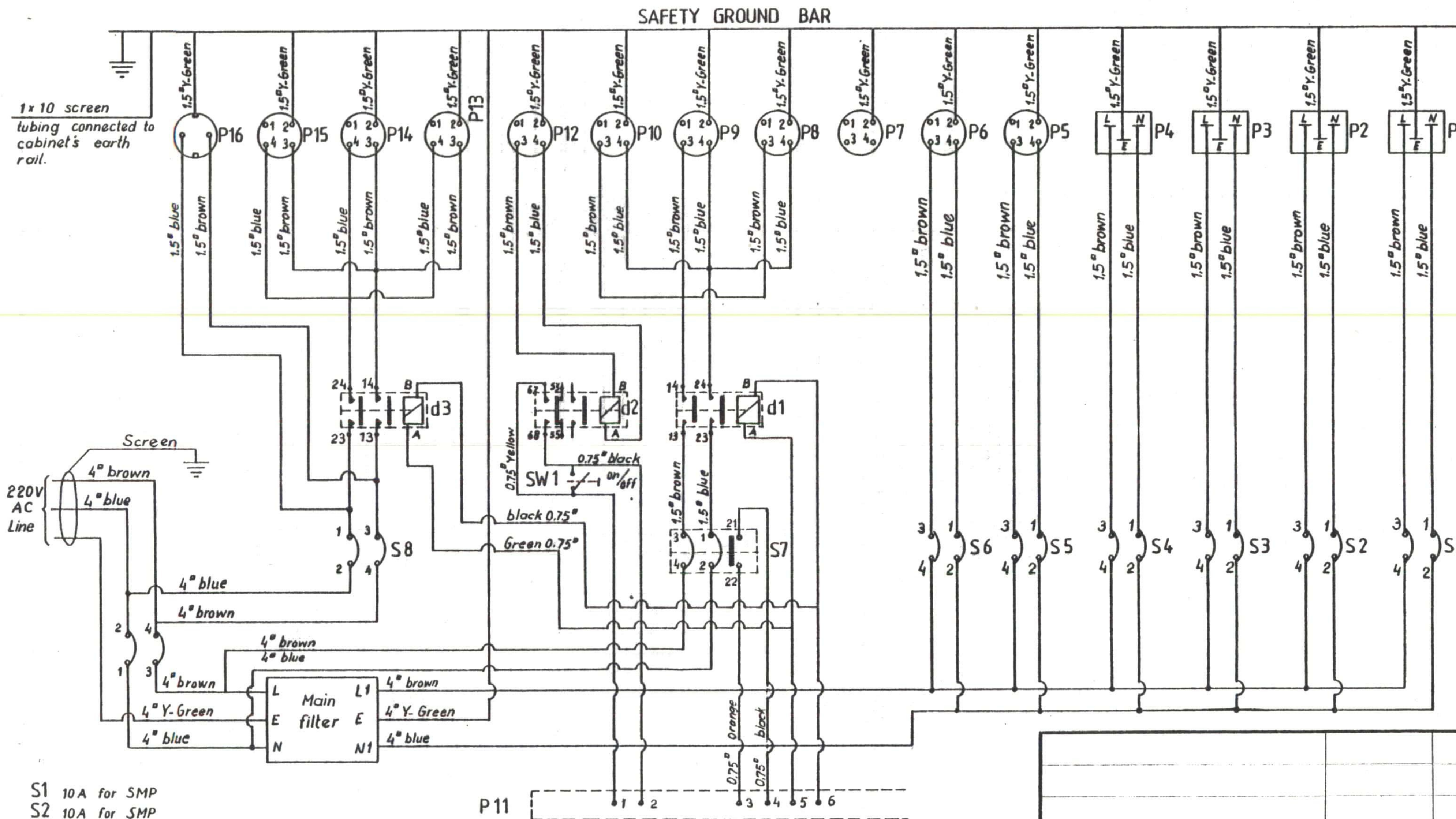
DRAWN BY MJM	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 4.5.79			

A/S NORSK DATA-ELEKTRONIKK	Title WIRING DAIGRAM FOR IEC TERMINAL STRIP N-100	Drawing no. 9037

NB: On/off switch and relise must be marked.



DRAWN BY MJM APPROVED BY DATE 4.5.79.	Remarks SEE DRAWING NO. 9014.	Replacement for Replaced by	Date Date



S1 10 A for SMP
S2 10 A for SMP
S3 10 A for SMP
S4 10 A for SMP
S5 4 A for Control panel
S6 4 A for Floppy
S7 4 A with switch for control of fan.
S8 2 A for control current out and service plug
S9 25 A Main fuse
d1 12 V [illegible] Relay for fan
d2 220 [illegible] Relay with delay for on/off signal to power control.
d3 12 V DC Relay control current output.

P1 for SMP1
P2 for SMP2
P3 for SMP3
P4 for SMP4
P5 for power control panel
P6 for floppy
P7 Spare
[illegible], P9, P10, for fans
P11 signal plug in/out.

P12 control current in
P13, P14, P15, control current out
P16 service plug
SW1 delay on/off for power control panel.

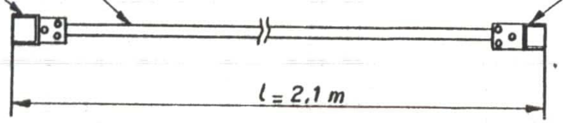
Corrected	Date	Sign.	
WIRING DIAGRAM FOR 220V POWER PANEL ND 100-500. VERSION 4	Scale ~	Drawn HJM	29.4.81.
		Contr.	
		Appr.	
NORSK DATA A.S Oslo, Norway	Replacement for 3-9[illegible]04		
	Replaced by		

Cable type: Ölflex 2 x 1,5□ + Screen

Plug Otto Hail 106

CABLE MAINS NORD POWER SUPPLY
1 : 1

Plug Otto Hail 104



l = 2,1 m

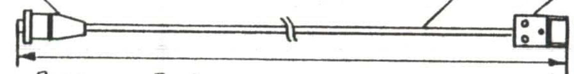
Brown = L
Blue = N
Screen = E (Earth)

AMP 206429-1
+ AMP 206358-1

MAIN CABLE FLOPPY 11 MOD.

Cable type: Ölflex 2 x 0,75□ + screen

Otto Hail 4030



Brown = Pin 3
Blue = Pin 4
Screen = Pin 2

Brown = L
Blue = N
Screen = E (Earth)

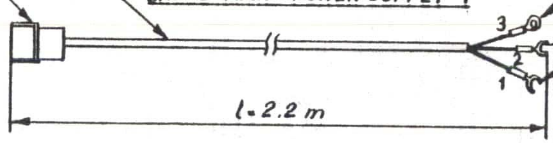
Cable type: Ölflex 2 x 1,5□ + Screen

Plug Otto Hail 106

CABLE MAINS POWER SUPPLY 4

Blue AMP 32442

Red AMP 322426



l = 2.2 m

Brown = L
Blue = N
Screen = E (Earth)

Brown = 1
Blue = 2
Green = 3

SEE DRAWING 3-9523

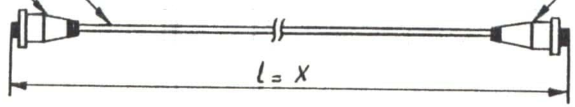
NB! screen on all these cables are of copper.

Cable type: 2 x 0,75□ + Screen

AMP 206429-1
+ AMP 206358-1

CABLE 1.2.3. 1:1

AMP 206060-1
+ AMP 206358-1



l = X

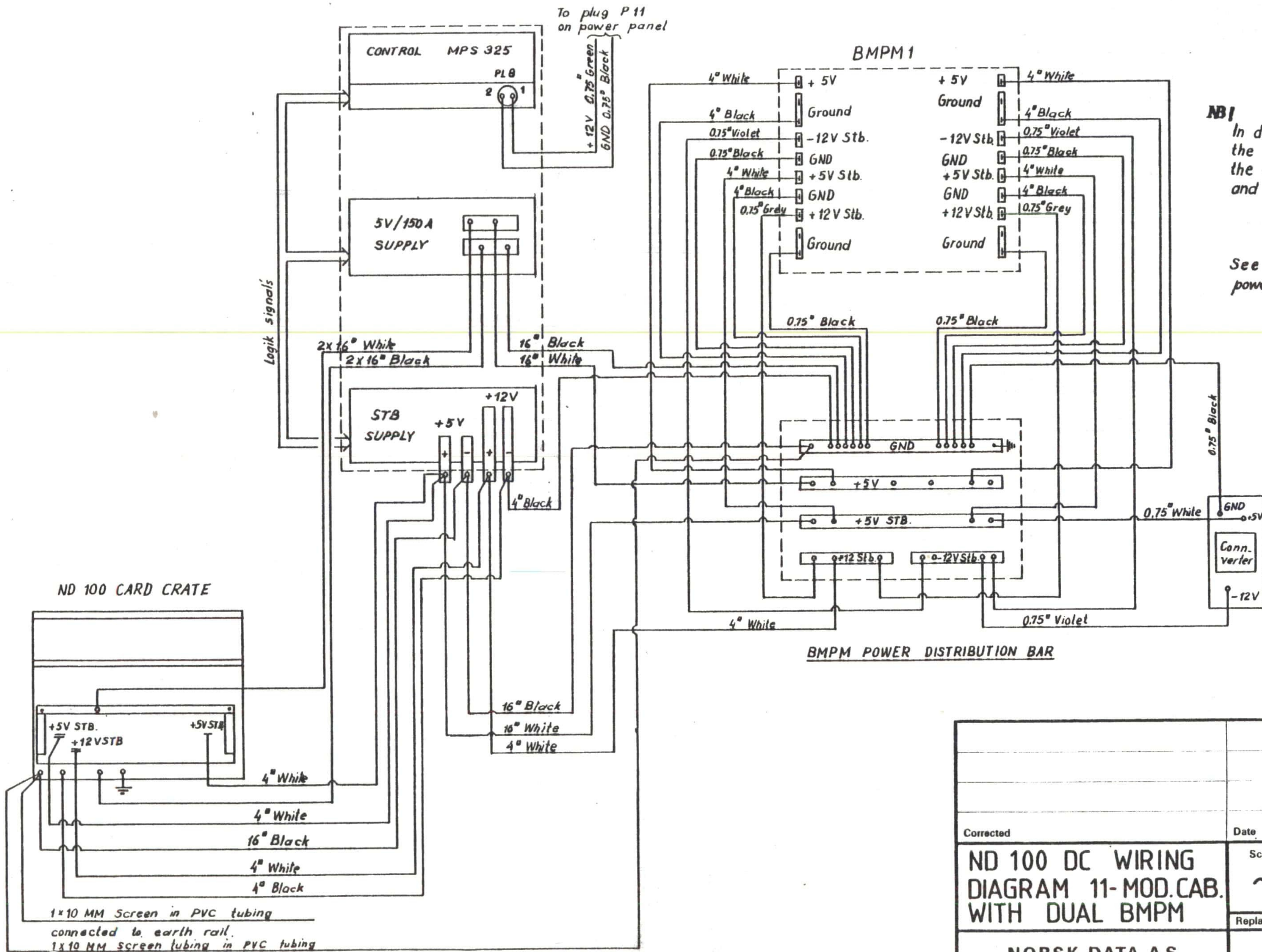
Brown = Pin 3
Blue = Pin 4
Screen = Pin 2

Length

cable 1 = 1.6 m
cable 2 = 2.8 m
cable 3 = 0,3 m

Cable 1 = cable mains control panel 11 module cabinet
Cable 2 = cable mains to top fan 11 modul cabinet
cable 2. Used for main control betwen master cabinet and slave cabinet.
cable 3 = cable mains top fan 30 cm 11 module cabinet.

Corrected	Date	Sign.
MAINS CABLES USED IN 11-MODULE CAB.	Scale ~	Drawn MJM 26.5.81. / Contr. / Appr.
NORSK DATA A.S Oslo, Norway	Replacement for: 3-9524 Replaced by	

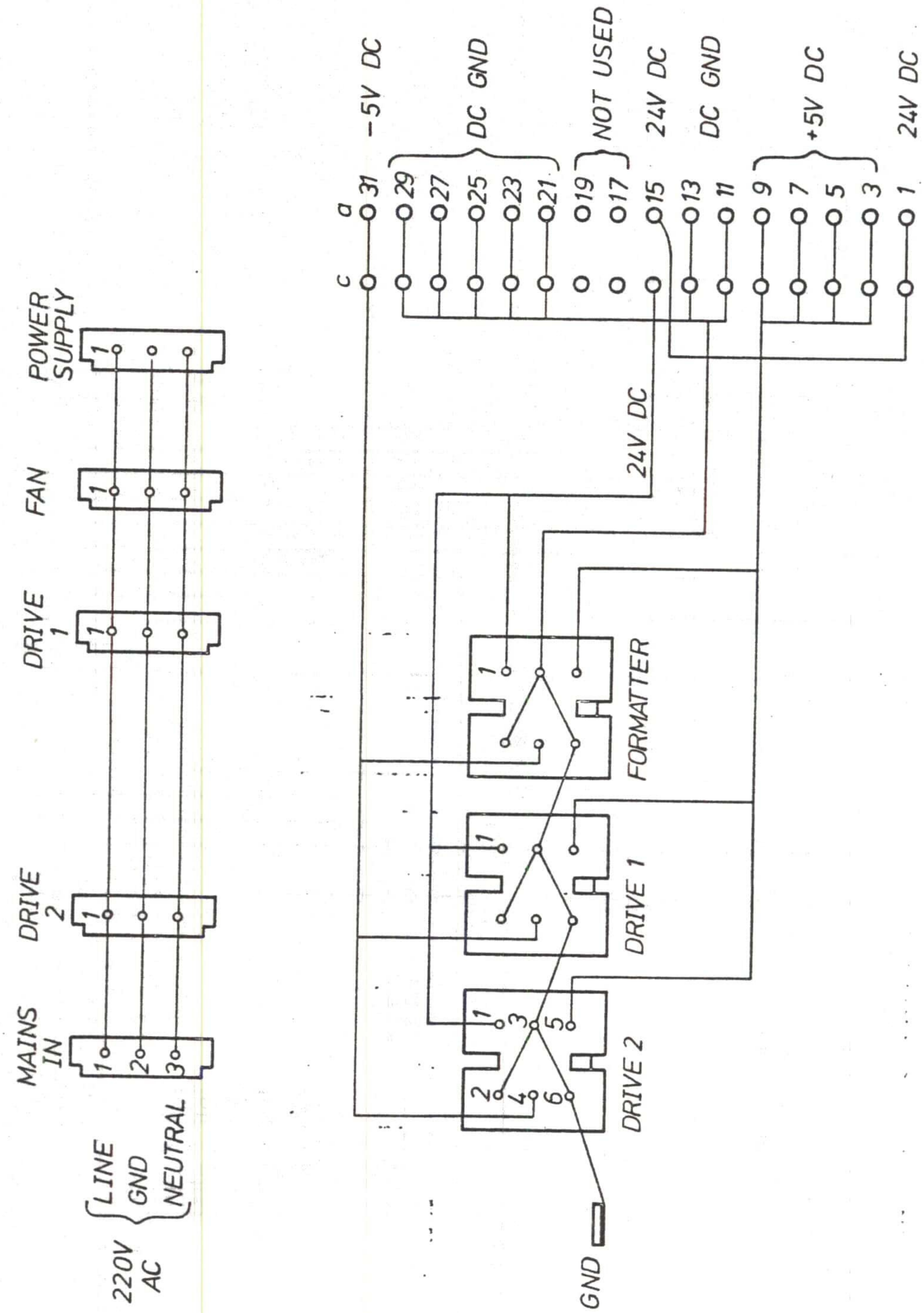


NB!
In dual BMPM frame, the wiring shell be the same for BMPM1 and BMPM 2

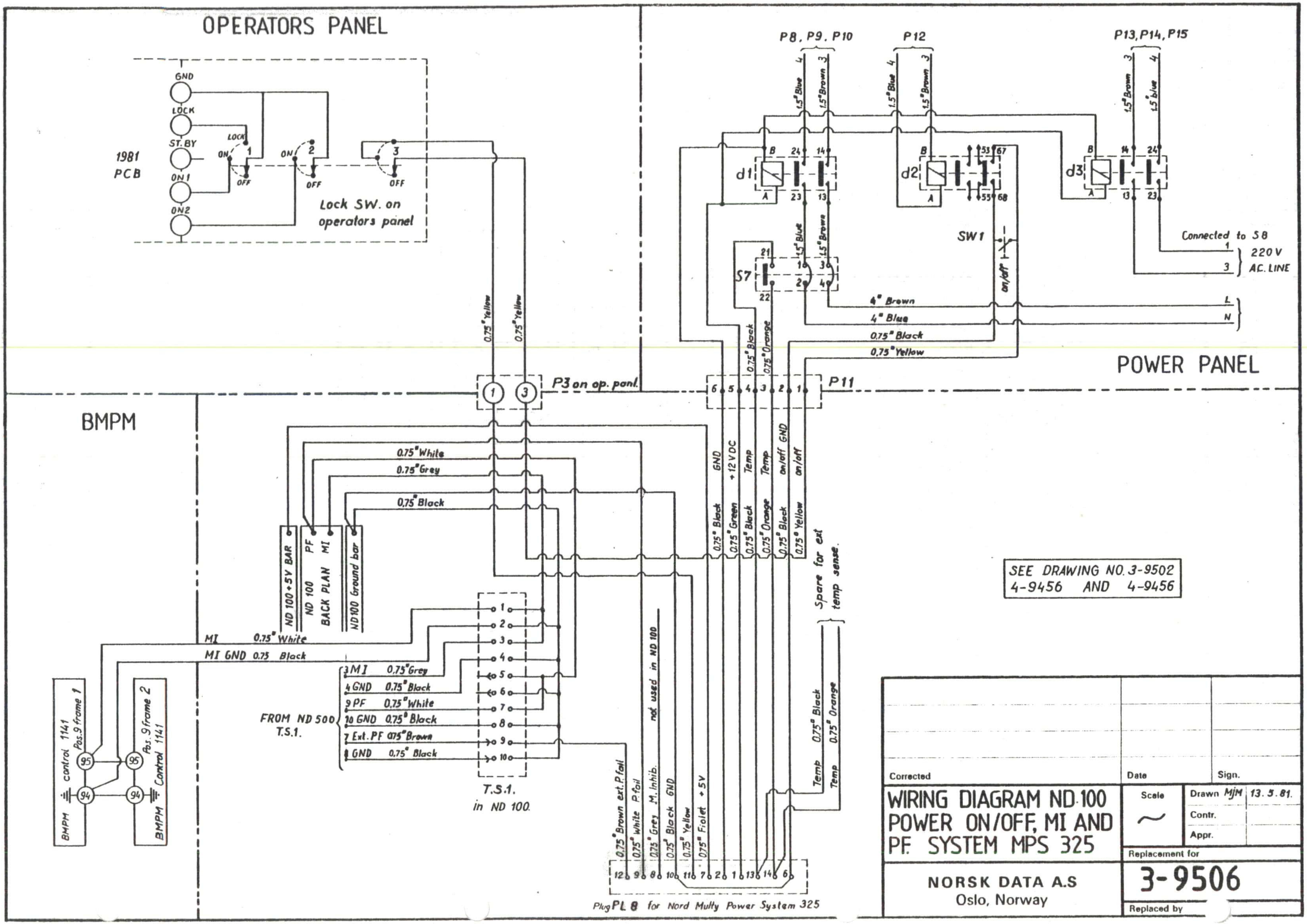
See discription for power capacity.

Corrected	Date	Sign.	
ND 100 DC WIRING DIAGRAM 11-MOD.CAB. WITH DUAL BMPM	Scale ~	Drawn MJM	26.5.81
		Contr.	
		Appr.	
NORSK DATA A.S Oslo, Norway	Replacement for 3-9525		
	Replaced by		

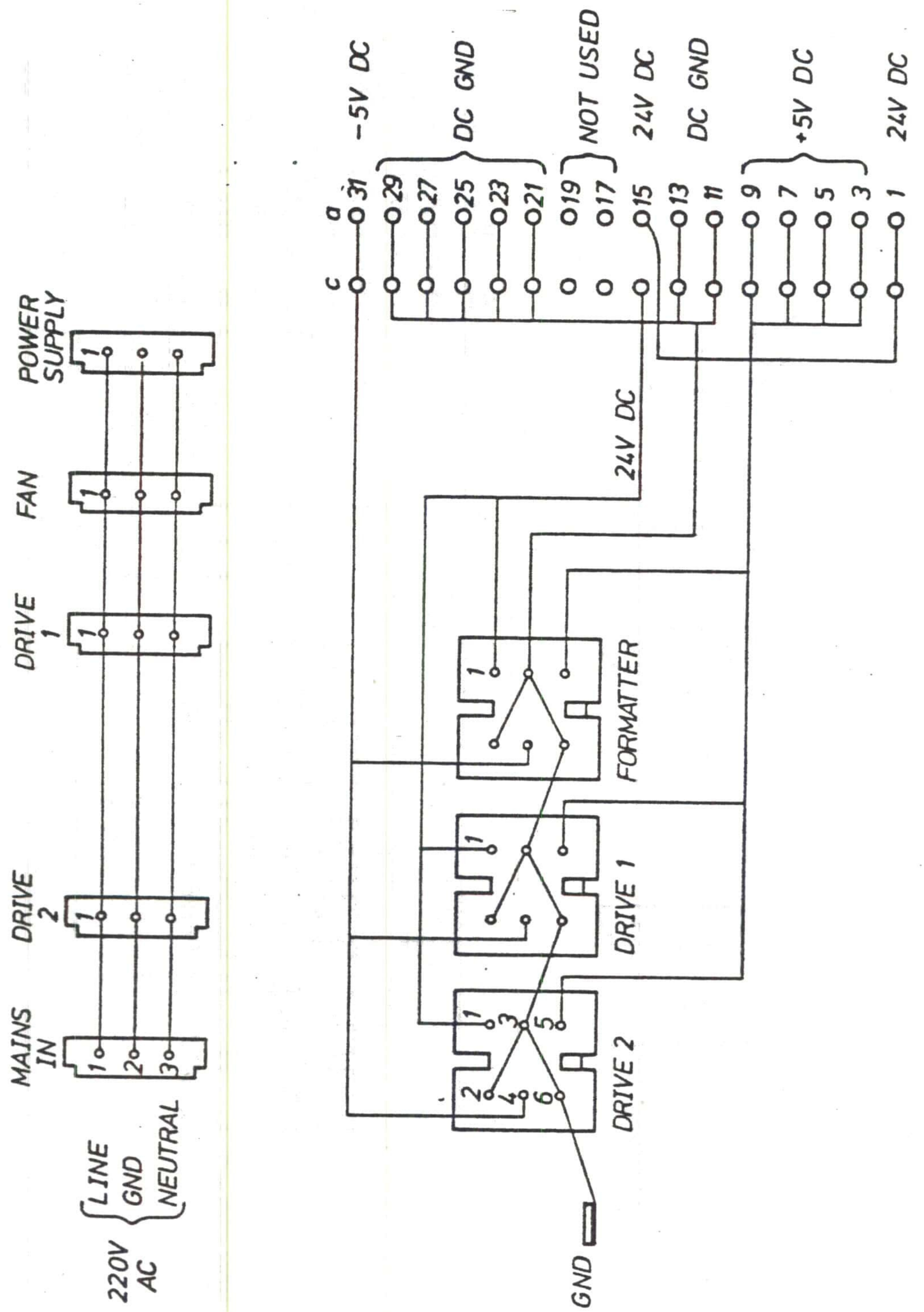
NORSK DATA A.S Oslo, Norway	Title FLOPPY POWER DISTRIBUTION	ID.NO 322763	CARD C	PRINT C



DRAWN BY BW	Remarks	Replacement for	Date
APPROVED BY SEJ	PRINT 1952	Replaced by	Date
DATE 27.3.79			


OPERATORS PANEL
1981 PCB
GND
LOCK
ST. BY
ON 1
ON 2
Lock SW. on operators panel
POWER PANEL
P8, P9, P10
P12
P13, P14, P15
d1
d2
d3
S7
SW1
on/off
Connected to S8
220 V AC. LINE
4" Brown
4" Blue
0.75" Black
0.75" Yellow
P3 on op. panl.
P11
BMPM
ND 100 +5V BAR
ND 100 BACK PLAN PF MI
ND100 Ground bar
0.75" White
0.75" Grey
0.75" Black
MI 0.75" White
MI GND 0.75 Black
FROM ND 500 T.S.1.
3 MI 0.75" Grey
4 GND 0.75" Black
9 PF 0.75" White
10 GND 0.75" Black
7 Ext. PF 0.75" Brown
8 GND 0.75" Black
T.S.1. in ND 100.
BMPM control 1141 Pos. 9 frame 1
BMPM Control 1141 Pos. 9 frame 2
not used in ND 100
Spare for ext temp sense.
Plug PL 8 for Nord Mully Power System 325
SEE DRAWING NO. 3-9502 4-9456 AND 4-9456
Corrected
Date
Sign.
WIRING DIAGRAM ND 100 POWER ON/OFF, MI AND PF. SYSTEM MPS 325
Scale ~
Drawn MJM 13. 5. 81.
Contr.
Appr.
Replacement for
3-9506
NORSK DATA A.S
Oslo, Norway
Replaced by

NORSK DATA A.S Oslo, Norway	Title FLOPPY POWER DISTRIBUTION	ID.NO 322763	CARD C	PRINT C



DRAWN BY BW	Remarks	Replacement for	Date
APPROVED BY SEJ	PRINT 1952	Replaced by	Date
DATE 27.3.79			

PLUG-PANEL N-100

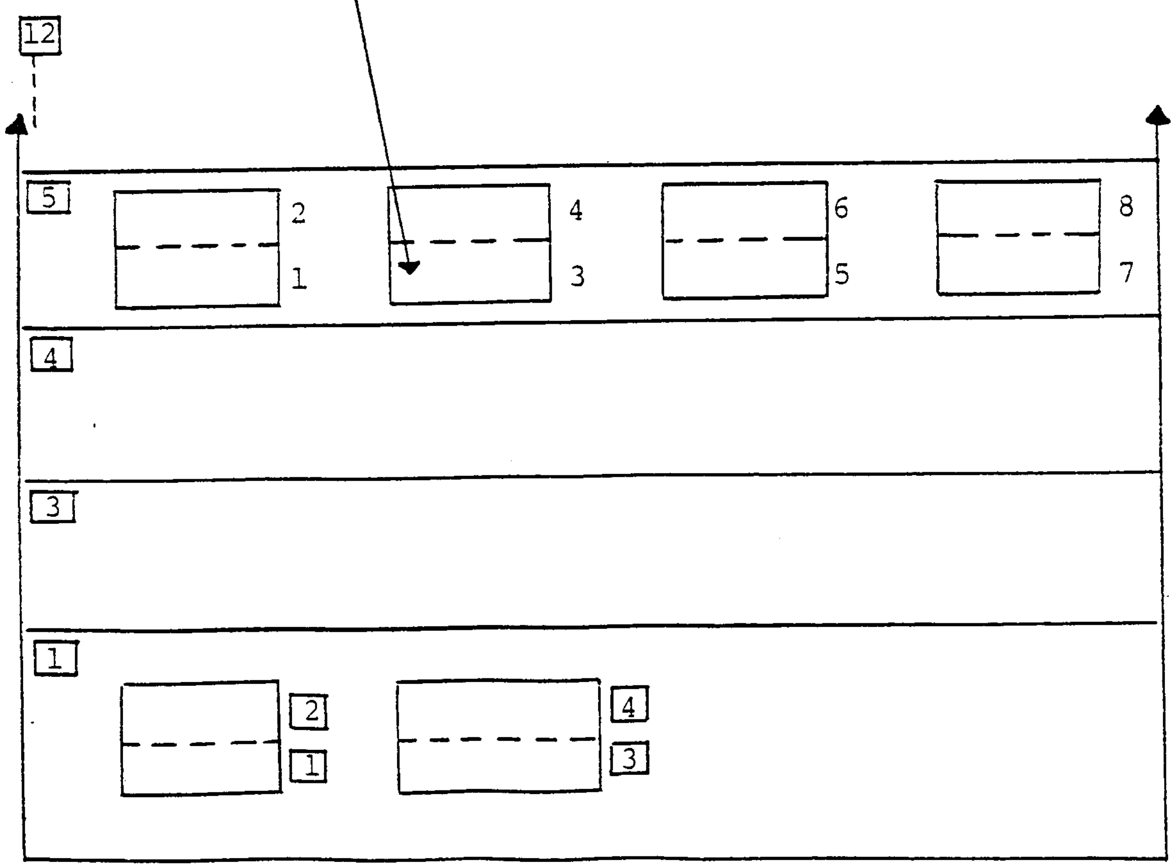
N-100 has one plug-panel-stripe for each card position. Card position and plug-panel has the same number.

Card position 2 is reserved for Memory Management, and has therefore no plug position. If Memory Management is not used, "Grant" and "Ident" are strapped on the backwiring by means of a 64 pin plug, which is plugged into card position 2.

The plug-panels are numbered 1, 3, 4, 5 ..... 12. All plug positions on each panel are numbered continuously, as shown on the drawing.

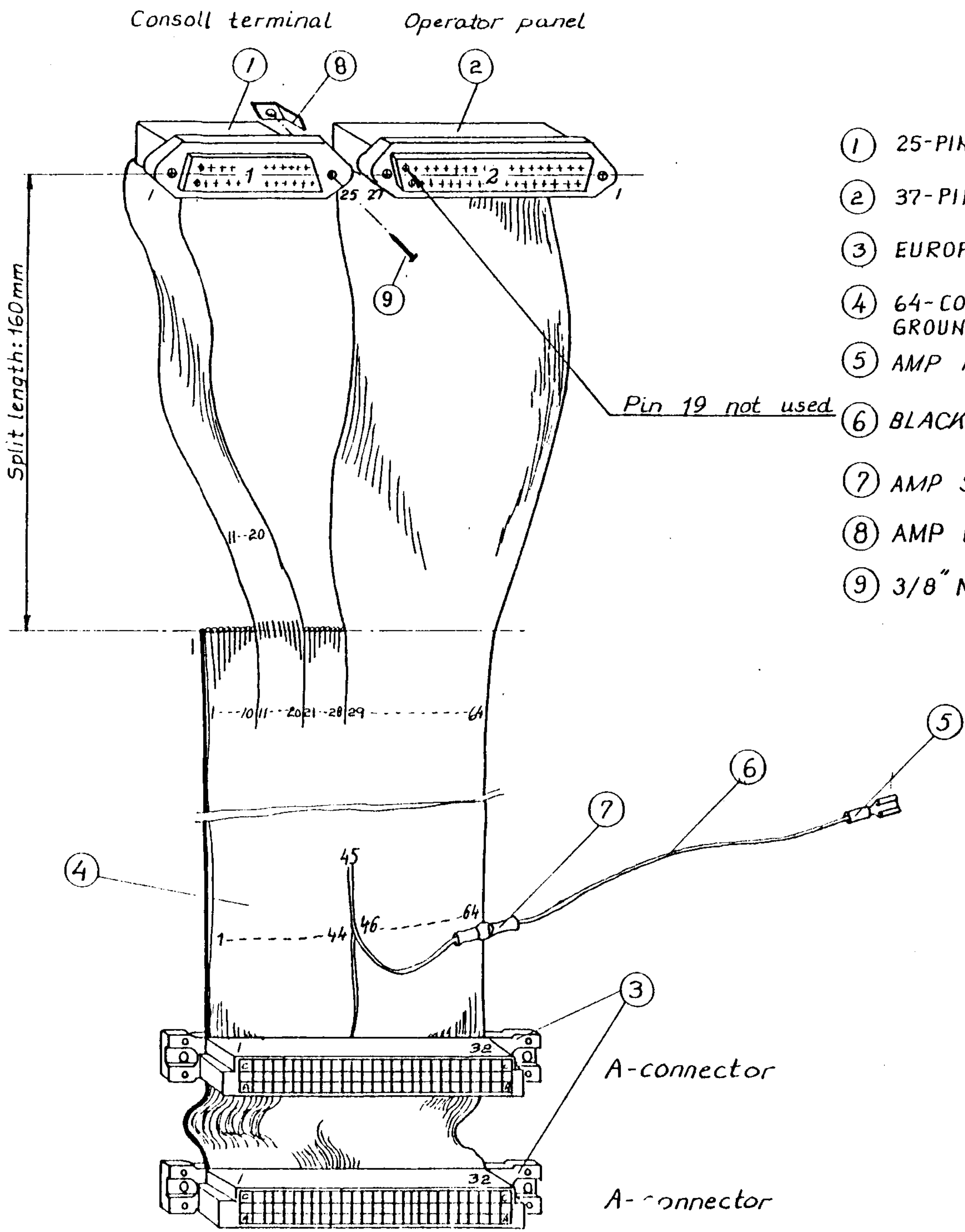
To identify a certain plug, the plug-panel number is first noted and then the plug's position on the panel.

Example: 5.3 This means plug No. 3 on panel No. 5.



PLUG-PANEL N-100

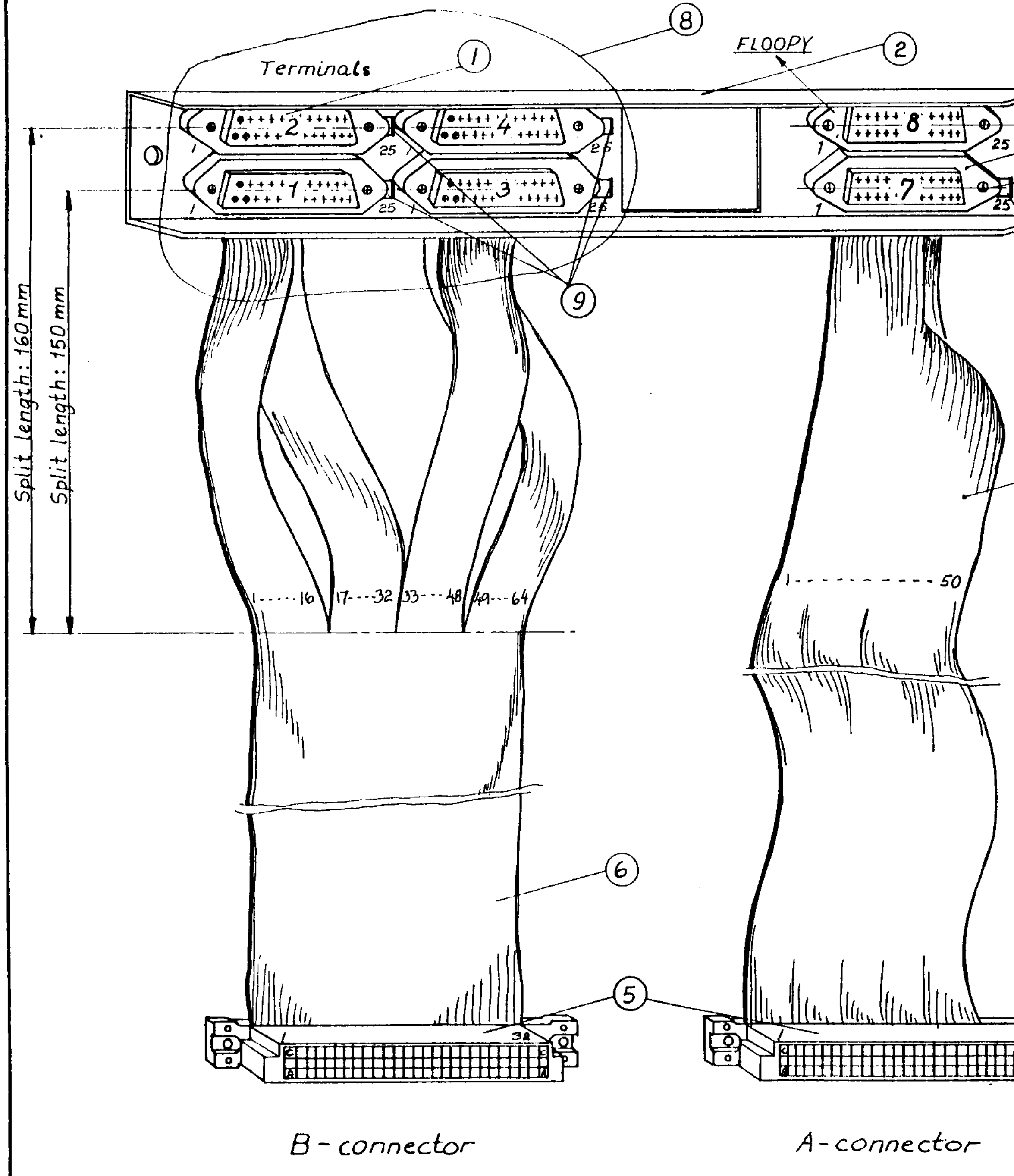
30.3.79 KA/agfr



1. 25-PIN D-CONNECTOR, ANSLEY 609-25 S
2. 37-PIN D-CONNECTOR, ANSLEY 609-37 S
3. EUROPLUG, 3M 3332-0001
4. 64-CONDUCTOR FLAT-CABLE WITHOUT GROUNDPLANE, 60 CM
5. AMP FASTON 140821-1
6. BLACK CABLE TPE 0,32 mm² LENGTH 60 CM
7. AMP SPLICES 323994
8. AMP FASTON 140594
9. 3/8" NO. 4 POTZI PANHEAD

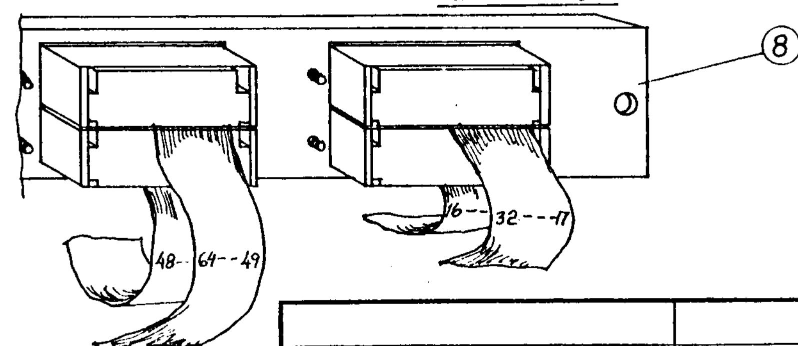
SEE DRAWING NO. 3-9304 & 3-9324

Rettet	Dato	Sign.
INTERNAL CABLE N-100 CPU, 322602	Målestokk	Tegn AG 25.10.78 Kontr. KA 9.3.79 Appr.
NORSK DATA A.S	9003	

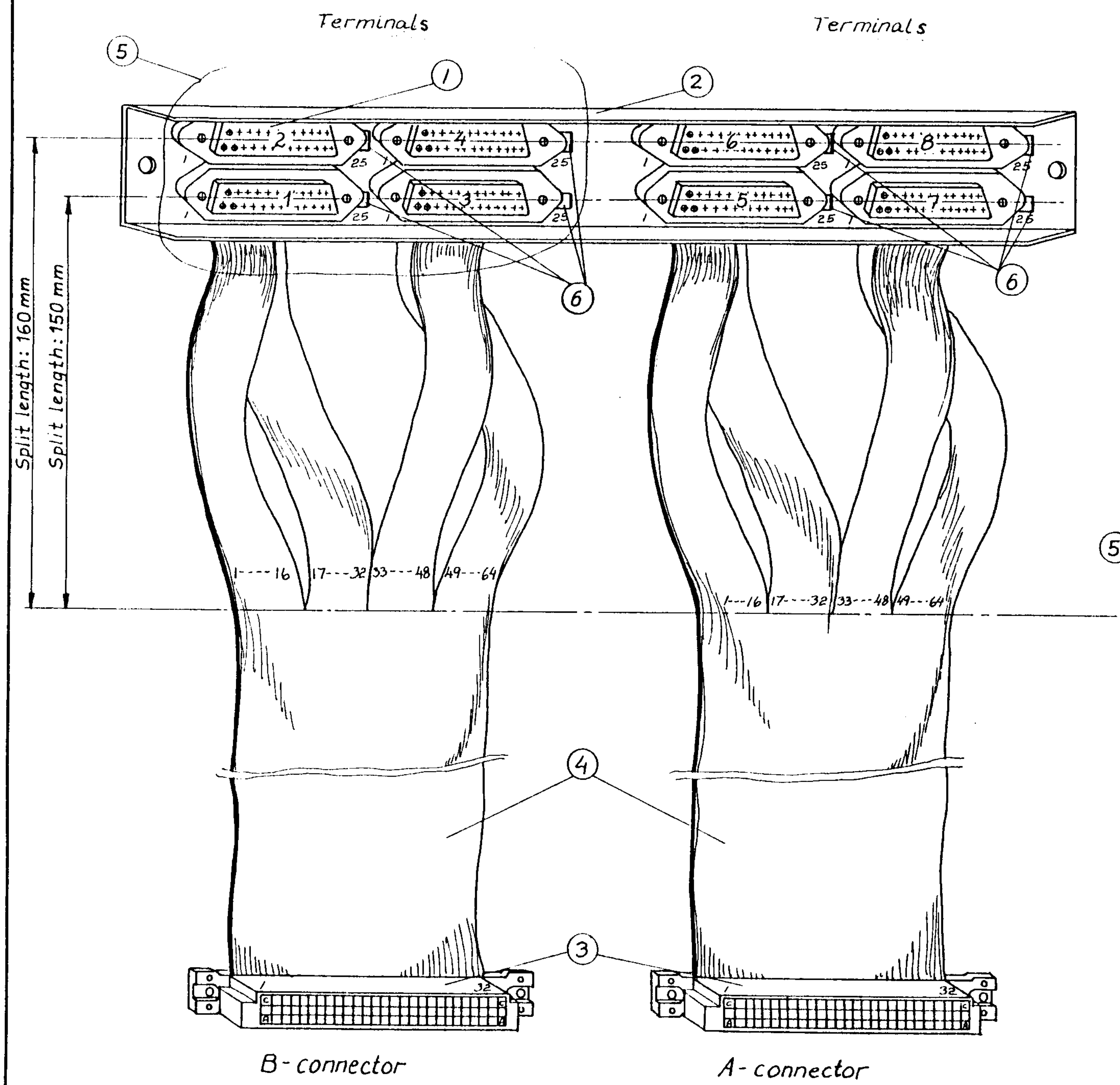


1. 25-PIN D-CONNECTOR, ANSLEY 609-25 S
2. PLUGPANEL, 2.2273 a
3. 2x25-PIN - D-CONNECTOR, ANSLEY 609-25S
4. 3/8" NO.4 PAN HEAD SHEETMETAL SCREW
5. EUROPLUG, 3M 3332-0001
6. 64-CONDUCTOR FLAT-CABLE WITHOUT GROUNDPLANE, 90 CM SEE DRG. NO. 4-9417
7. 50-CONDUCTOR FLAT-CABLE WITHOUT GROUNDPLANE, 90 CM SEE DRG. N. 4-9405
8. DETAIL D-CONNECTORS
9. EARTH FASTON, AMP 140594

NB! SEE DRG. NO. 3-9317 TO 3-9322 AND 3-9327

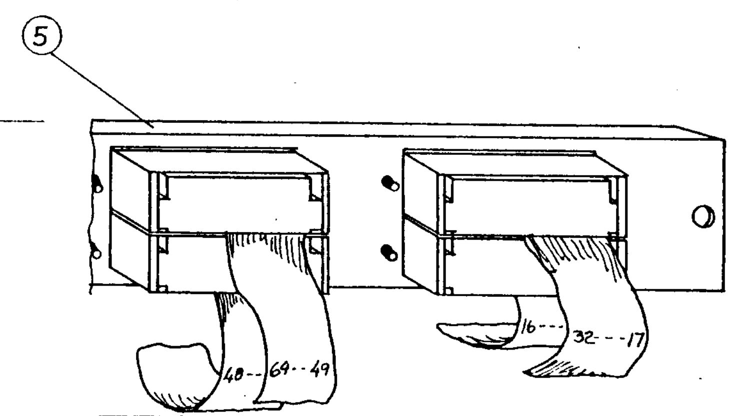


Rettet	Dato	Sign.
INTERNAL CABLE N-100 FLOPPY + 4TERM. IF, 322610	Målestokk	Tegn A.O. 25.10.78 / Kontr. 1GA 9.3.79 / Appr.
NORSK DATA A.S	9005	



1. 25-PIN D-CONNETOR, ANSLEY 609-25S
2. PLUGPANEL, 22273 a
3. EUROPLUG,
4. 64-CONDUCTOR FLAT-CABLE WITHOUT GROUNDPLANE, 90 CM
5. DETAIL D-CONNECTORS
6. EARTH FASTON AMP 140594

SEE DRAWING 3-9317 TO 3-9322



Rettet	Dato	Sign.	
INTERNAL CABLE N-100 8 TERM. INTERFACE, 322613	Målestokk	Tegn A.G.	26.10.78
		Kontr. KH	9.3.79
		Appr.	
NORSK DATA A.S	9008		

(1) 25-PIN D-CONNECTOR, ANSLEY 609-25S

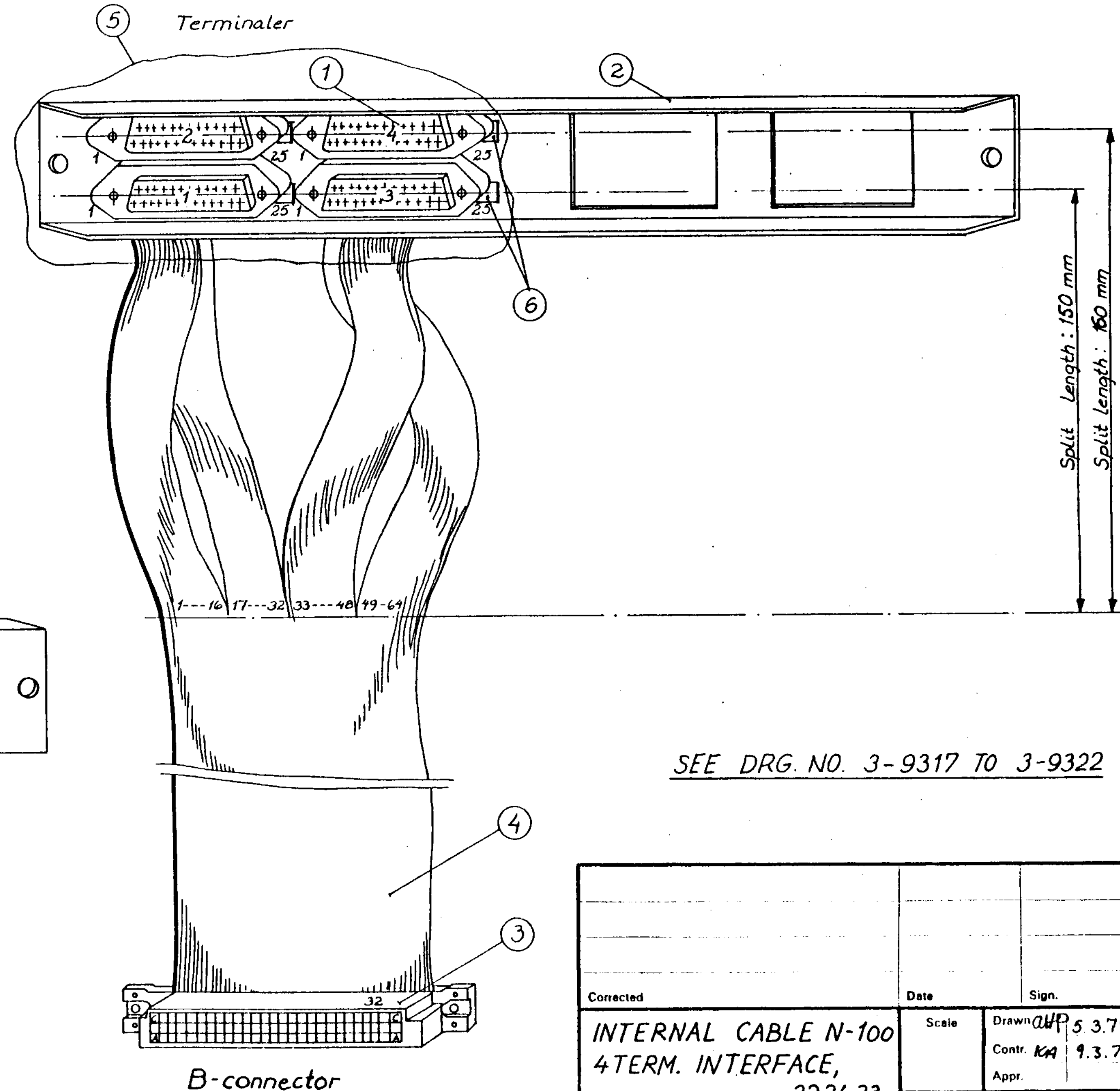
(2) PLUGPANEL, 2.2273A

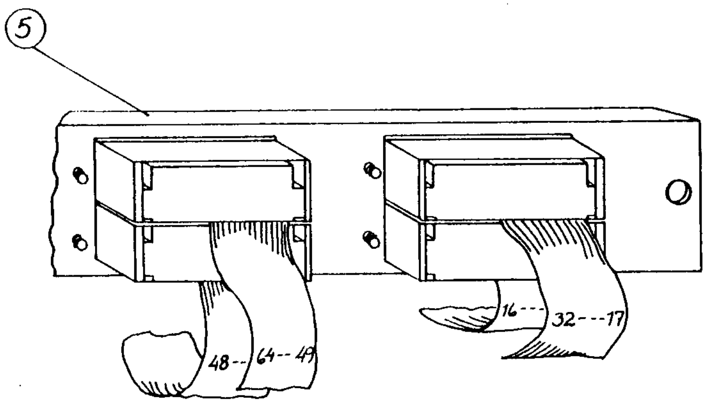
(3) EUROPLUG, 3M 3332-0001

(4) 64-CONDUCTOR FLAT-CABLE WITHOUT GROUNDPLANE, 90 CM

(5) DETAIL D-CONNECTORS

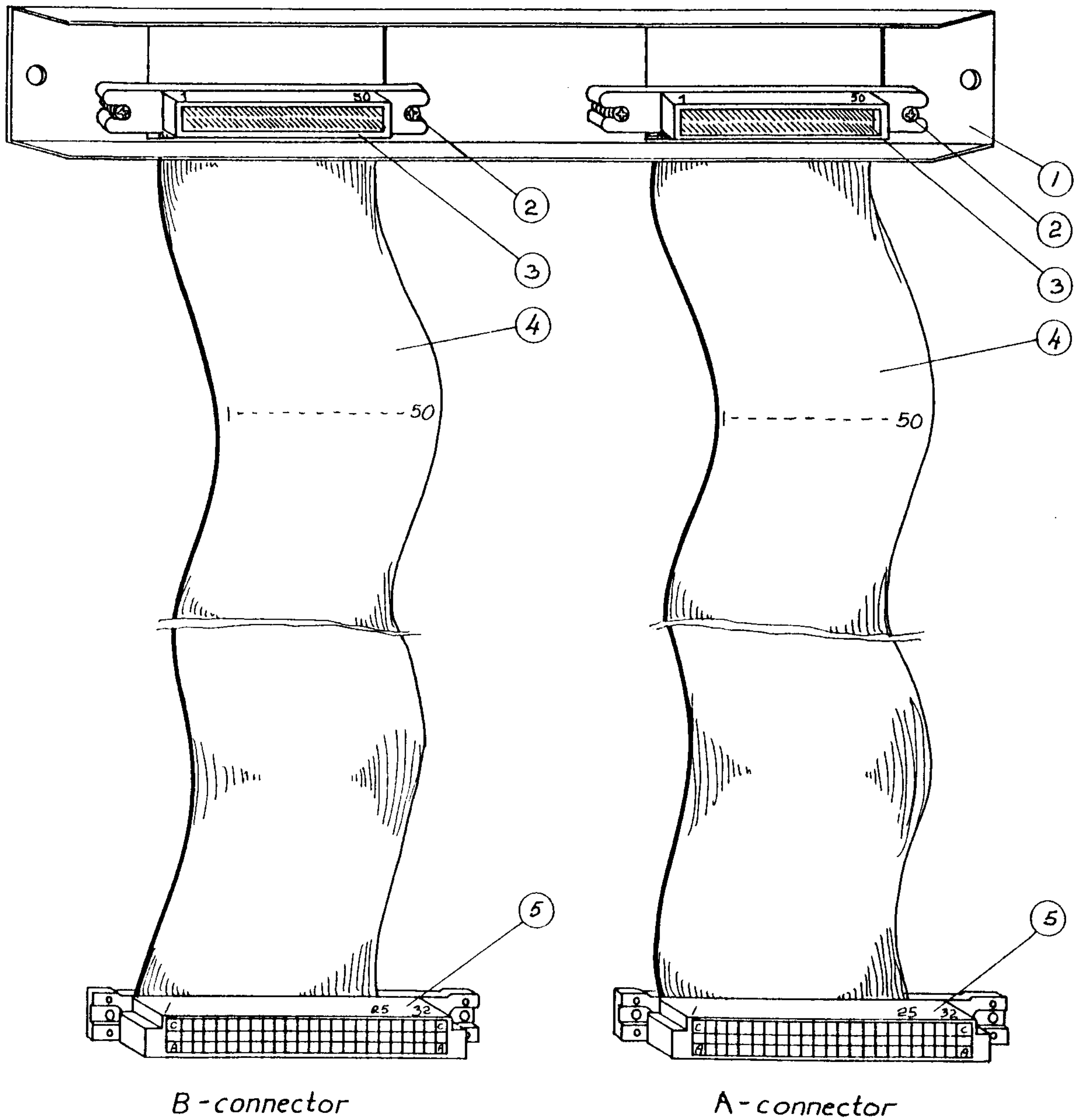
(6) EARTH FASTON AMP 140594





SEE DRG. NO. 3-9317 TO 3-9322

Corrected	Date	Sign.
INTERNAL CABLE N-100 4TERM. INTERFACE, 322633	Scale	Drawn AHP 5.3.79 Contr. KA 9.3.79 Appr.
NORSK DATA A.S Oslo, Norway	Replacement for 9009 Replaced by	



(1) PLUGPANEL, DRG.NO. 3-3792

(2) 3/8" NO.4 PAN HEAD SHEETMETAL SCREW

(3) 50-PIN PLUG-CONNECTOR, 3M 3331-0001

(4) 50-CONDUCTOR FLAT-CABLE WITHOUT GROUNDPLANE, 90 CM

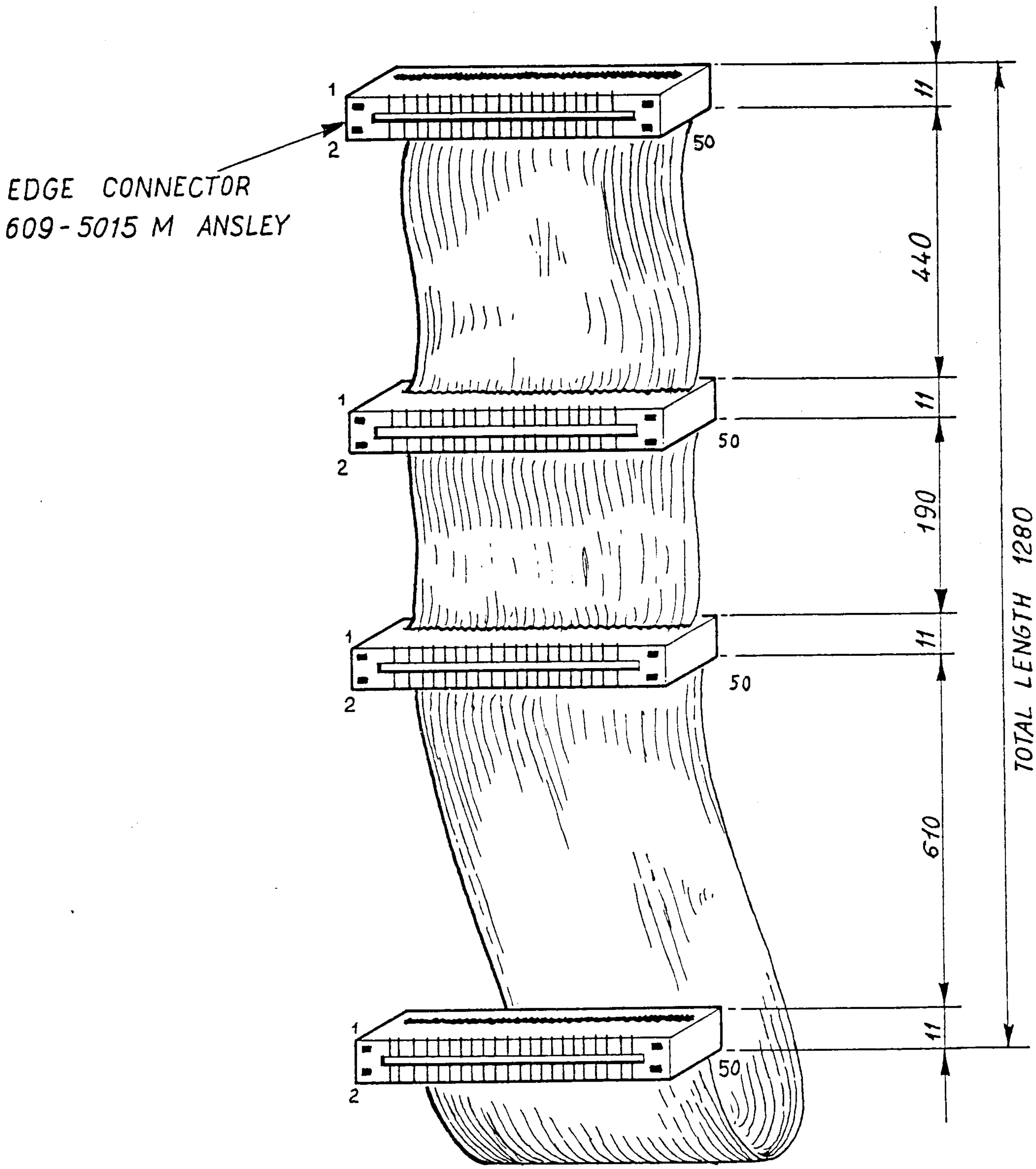
(5) EUROPLUG, 3M 3332-0001

MPM LINE DRIVER – 322603

SEE DRG. NO. 3-9315 AND 3-9316

Rettet	Dato	Sign.	
INTERNAL CABLE N-10/M FOR THE BOARDS: 322603,	Målestokk	Tegn A.G.	26.10.78
		Kontr. KA	9.3.79
		Appr.	
NORSK DATA A.S	9011		

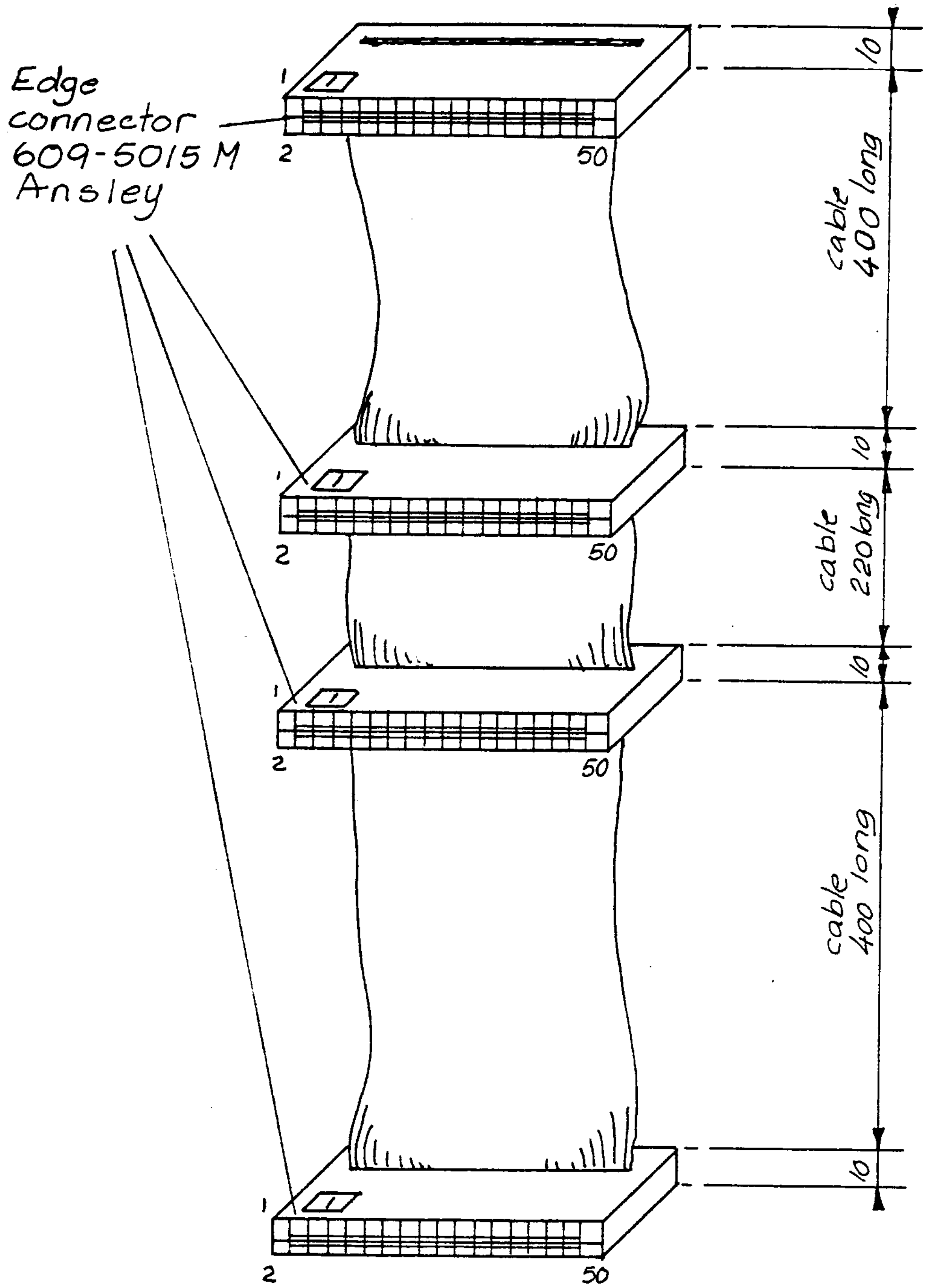
NORSK DATA A.S Oslo, Norway	Title FLOPPY INTERNAL SIGNAL CABLE N-100	Drawing no. 9020



SEE DRAWING NO. 2-9201

DRAWN BY MJM	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 19.10.79.			

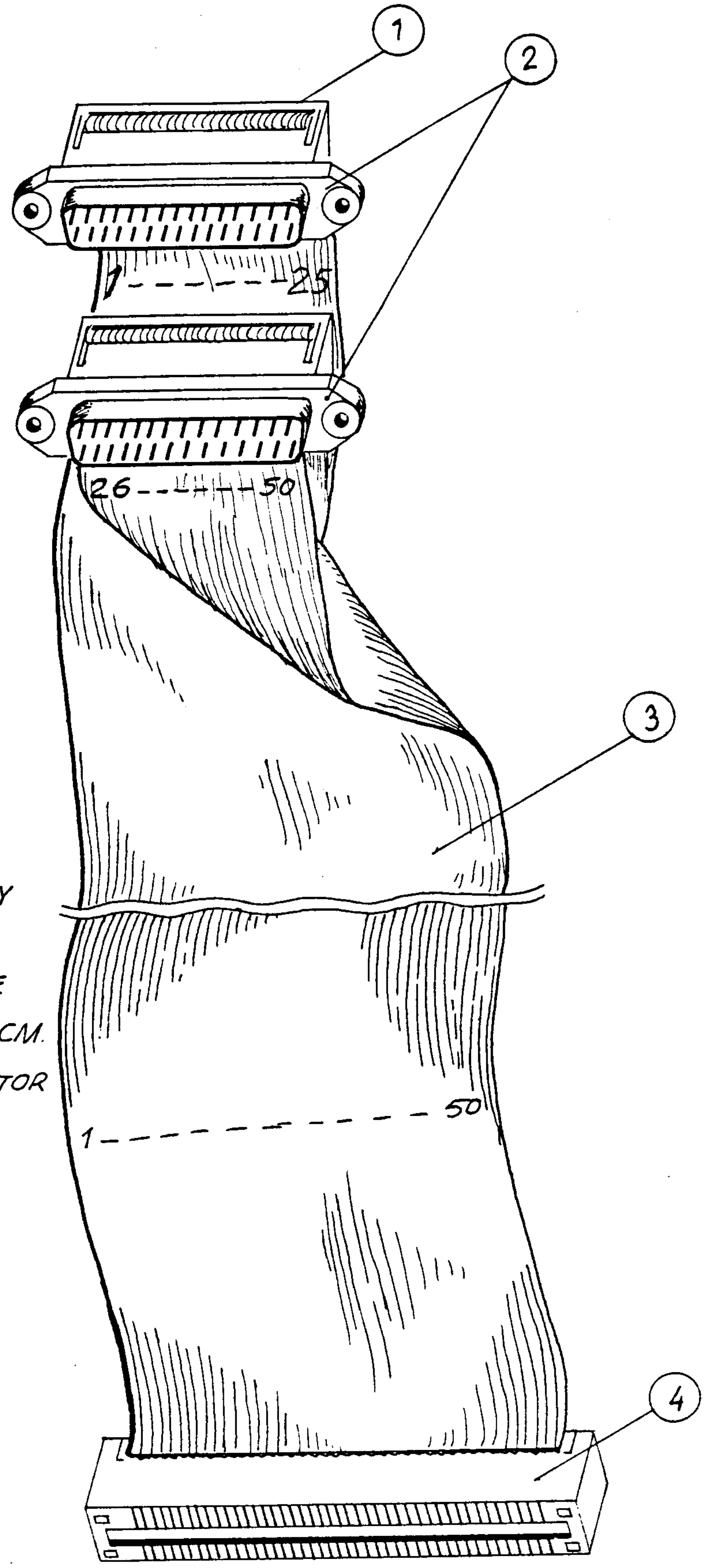
A/S NORSK DATA-ELEKTRONIKK	Title: Floppy internal signal cable N-100	Drawing no. 9020



SEE DRAWING NO.2-9201

DRAWN BY A.G.	Remarks	Replacement for	Date
APPROVED BY KH		Replaced by	Date
DATE 20/12-78			

A/S NORSK DATA-ELEKTRONIKK	Title SIGNAL CABLE FOR FLOOPY DISC N/100	Drawing no. 9021



1: STRIN RELIEF

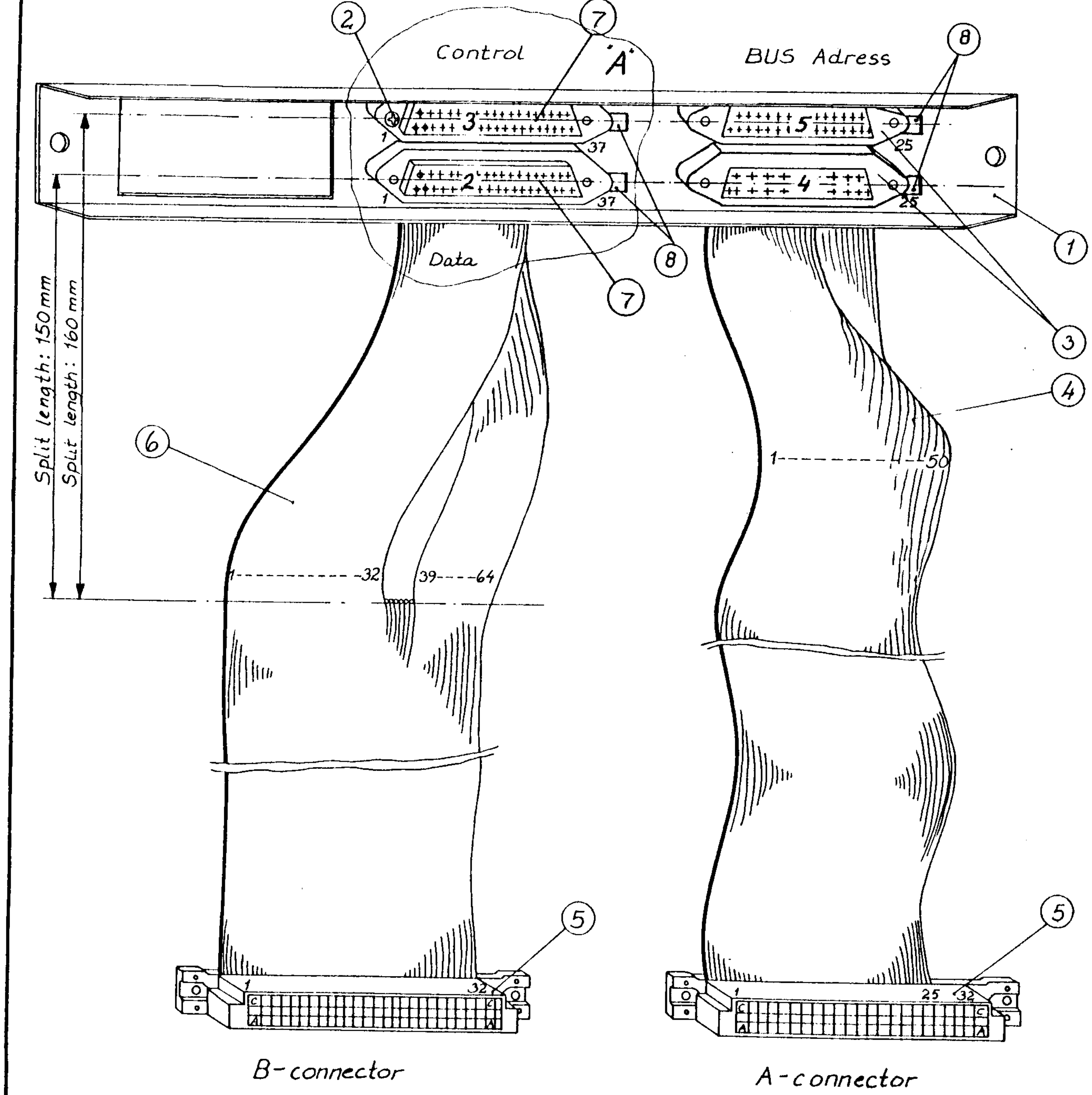
2: 25 PIN-D-CONNECTOR, ANSLEY 609-25P

3: 50-CONNECTOR FLAT CABLE WITHOUT GROUND PLANE 200CM.

4: ANSLEY CARD EDGE CONNECTOR 609-5015.M.

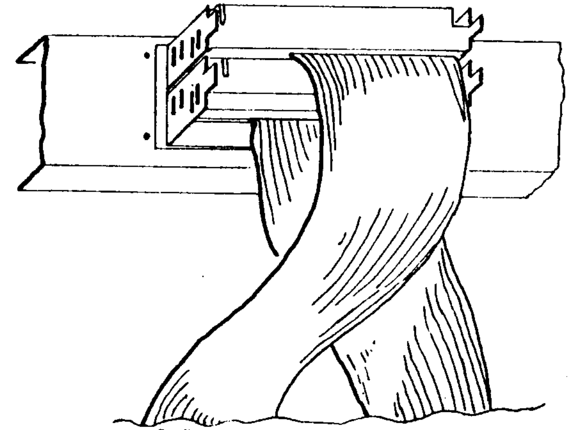
SEE DRG. NO. 3-9327

DRAWN BY *MJM*	Remarks	Replacement for	Date
APPROVED BY		Replaced by	Date
DATE 23.5.79.			



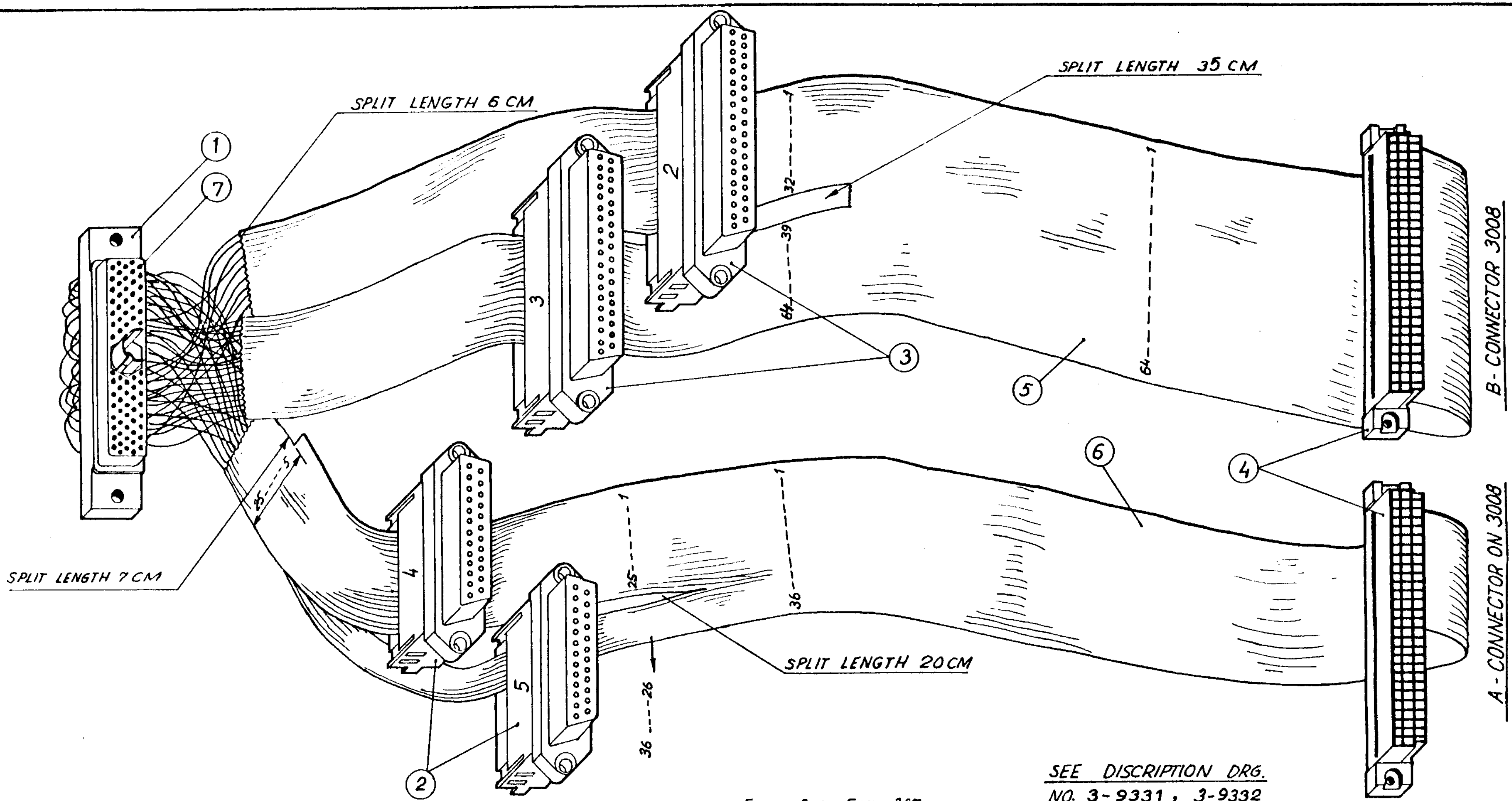
1. PLUGPANEL, 3-3778
2. 3/8" NO. 4 PAN HEAD SHEETMETAL SCREW
3. 2×25 PIN D-CONNECTOR, ANSLEY 609-25S
4. 50-CONDUCTOR FLAT-CABLE WITHOUT GROUNDPLANE, 90 CM
5. EUROPLUG, 3M 3332-0001
6. 64-CONDUCTOR FLAT-CABLE WITHOUT GROUNDPLANE, 90 CM
7. 37-PIN D-CONNECTOR, ANSLEY 609-37S

   SEE DRG. NO. 3-9313AND 3-9314.
8. EARTH FASTON AMP 140594

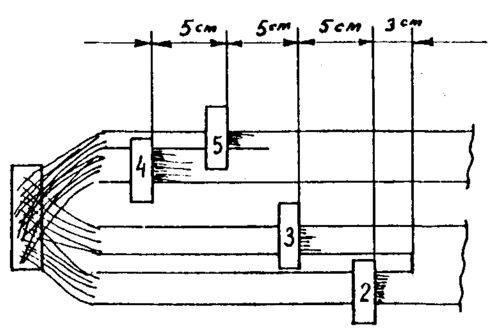


"A" REAR VIEW

Corrected	Date	Sign.
INTERNAL CABLE N-100 EUROBUS ADOPTER 322608	Scale	Drawn WP 7.3.79 Contr. KA 9.3.79 Appr.
NORSK DATA A.S Oslo, Norway	Replacement for 9032 Replaced by	

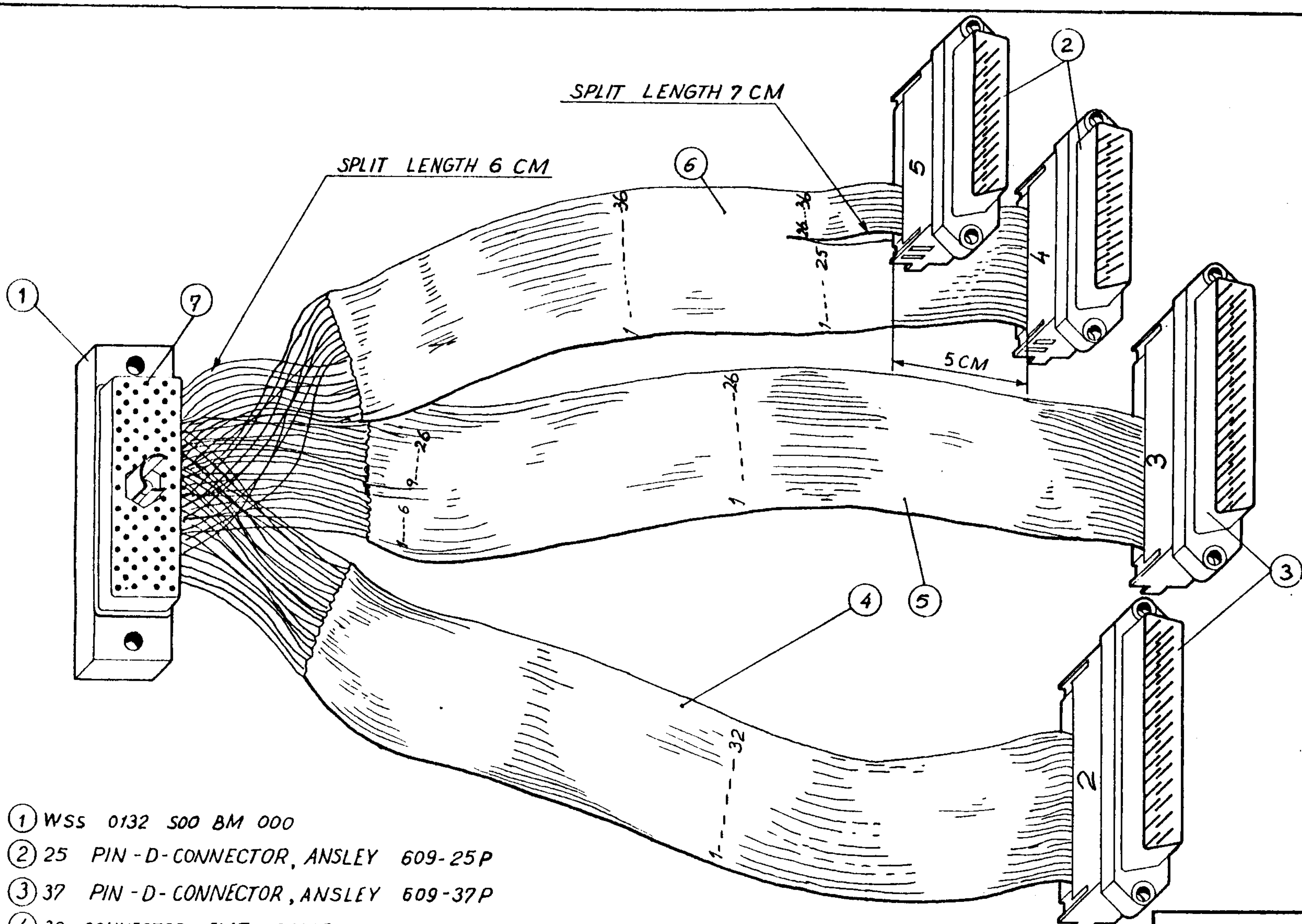


1. PLUG WSS 008 S00 BN 000
2. 25-PIN-D-CONNECTOR, ANSLEY 609-25S
3. 37-PIN-D-CONNECTOR, ANSLEY 609-37S
4. EUROPLUG , 3M 3332-0001
5. 64-CONNECTOR FLAT-CABLE WITHOUT GROUNDPLANE, 94 CM.
6. 36-CONNECTOR FLAT-CABLE WITHOUT GROUNDPLANE, 94 CM.
7. SOCKET WS 22Y 28C 000



REAR VIEW

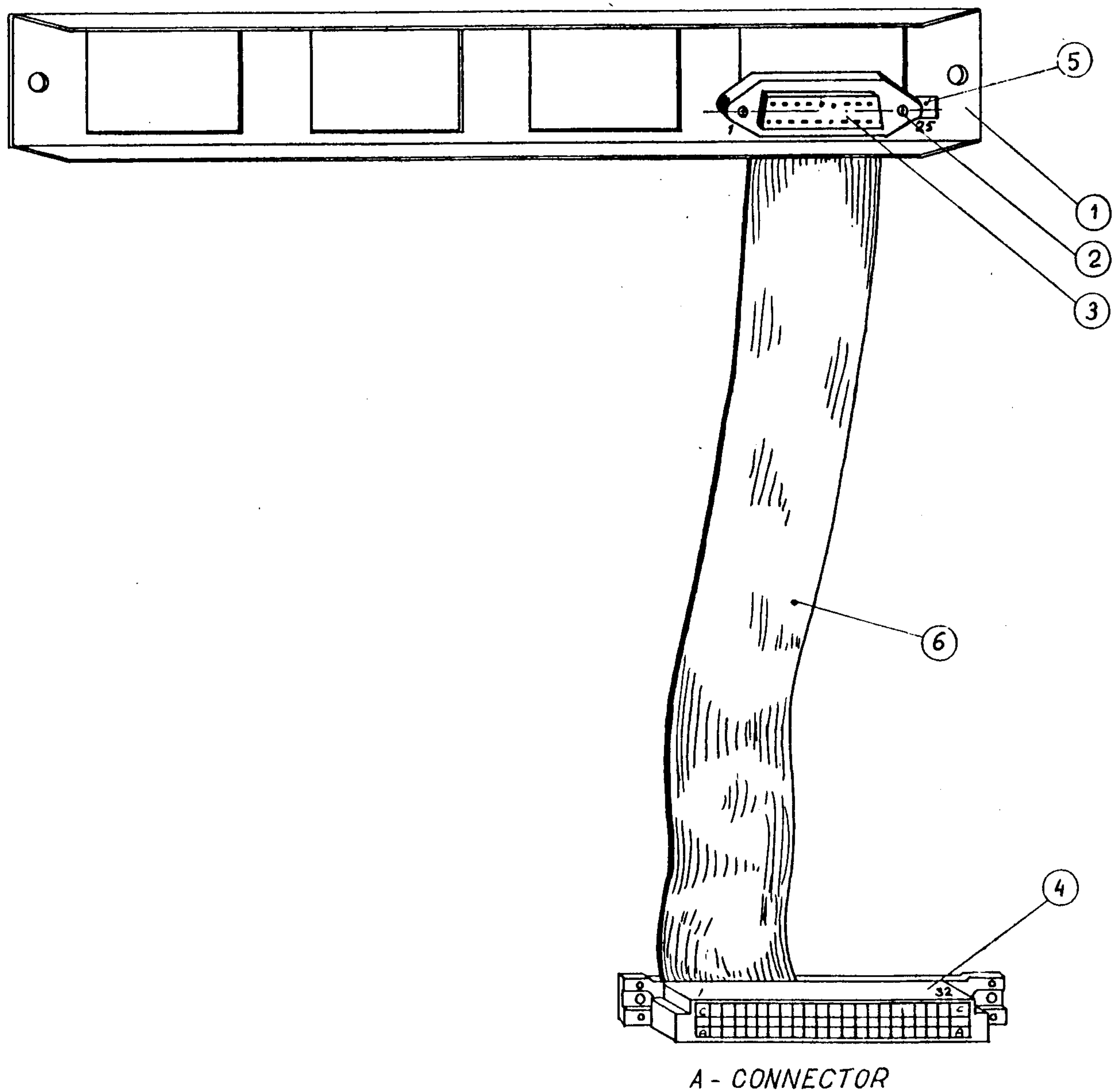
Corrected		Date	Sign.
N/100 BUS DATA - CONTROL - ADDRESS (CAMAC) 16BIT	Scale	Drawn MJM	13.6.79
		Contr.	
		Appr.	
	Replacement for		
NORSK DATA A.S Oslo, Norway	3-9310		
	Replaced by		



1. WSS 0132 500 BM 000
2. 25 PIN-D-CONNECTOR, ANSLEY 609-25P
3. 37 PIN-D-CONNECTOR, ANSLEY 609-37P
4. 32-CONNECTOR FLAT CABLE WITHOUT GROUNDPLANE, 35 CM
5. 26-CONNECTOR FLAT CABLE WITHOUT GROUNDPLANE, 35 CM
6. 36-CONNECTOR FLAT CABLE WITHOUT GROUND PLANE, 35 CM
7. SOCKET WS 22Y 28C 000

Corrected	Date	Sign.

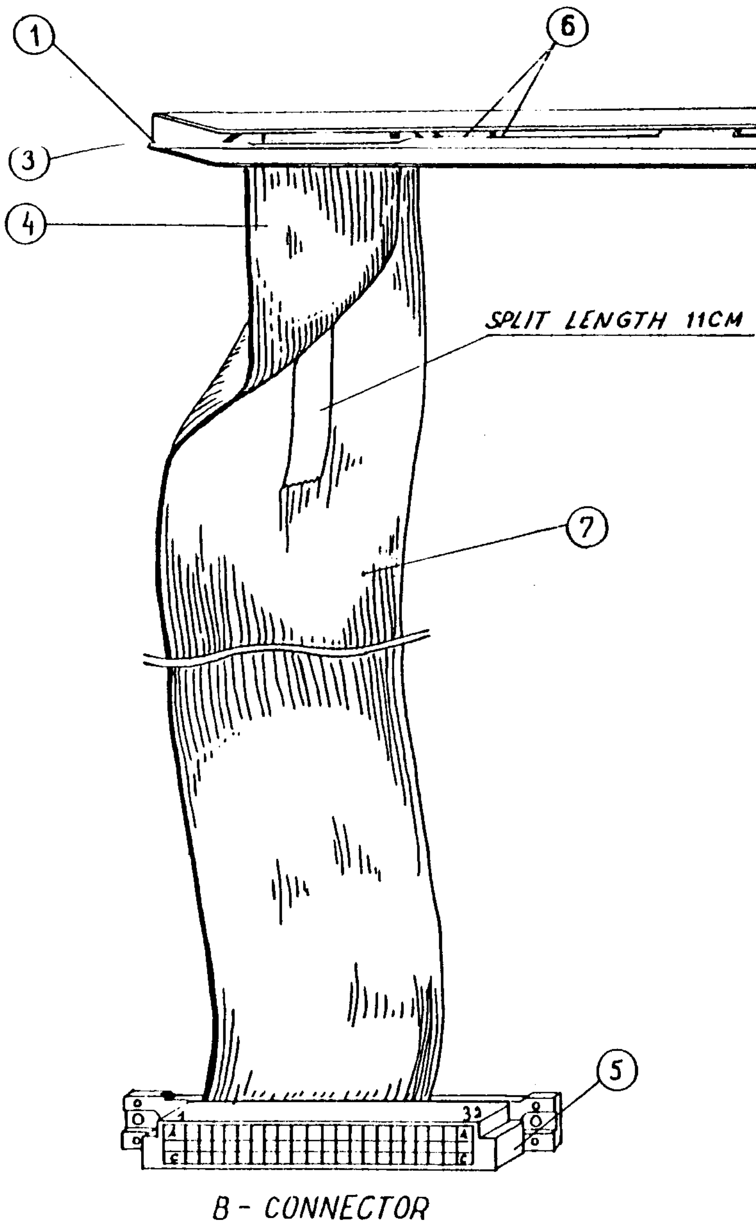
N/100 BUS DATA CONTROL-ADDRESS (CAMAC) 18 BIT	Scale	Drawn M.J.M 22-6-79 Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9311	
	Replaced by	



1. PLUG PANEL, 2-2273a
2. 3/8" NO.4 PAN HEAD SHEETMETAL SCREW
3. 25 PIN D-CONNECTOR, FLAT CABLE WITHOUT GROUND PLANE 90 CM.
4. EUROPLUG, 3M 3332-001
5. FASTON AMP 140594
6. FLAT CABLE 90 CM 25 CONDUCTOR

SEE DRAWING NO. 3-9325

Rettet	Dato	Sign.
INTERNAL CABLE AUTO LOAD 322637	Målestokk	Tegn MJM 2.7.79. Kontr Appr.
NORSK DATA A.S	3-9333	



(1) PLUGPANEL , 2-2273a

(2) 25 PIND - CONNECTOR, ANSLEY 609-255

(3) 3/8" NO 4 PAN HEAD SHEETMETAL SCREW

(4) 50 CONN. FLAT CABLE WITHOUT GROUND PLANE 90CM.

(5) EUROPLUG, 3 M 3332-001

(6) FASTON AMP 140594

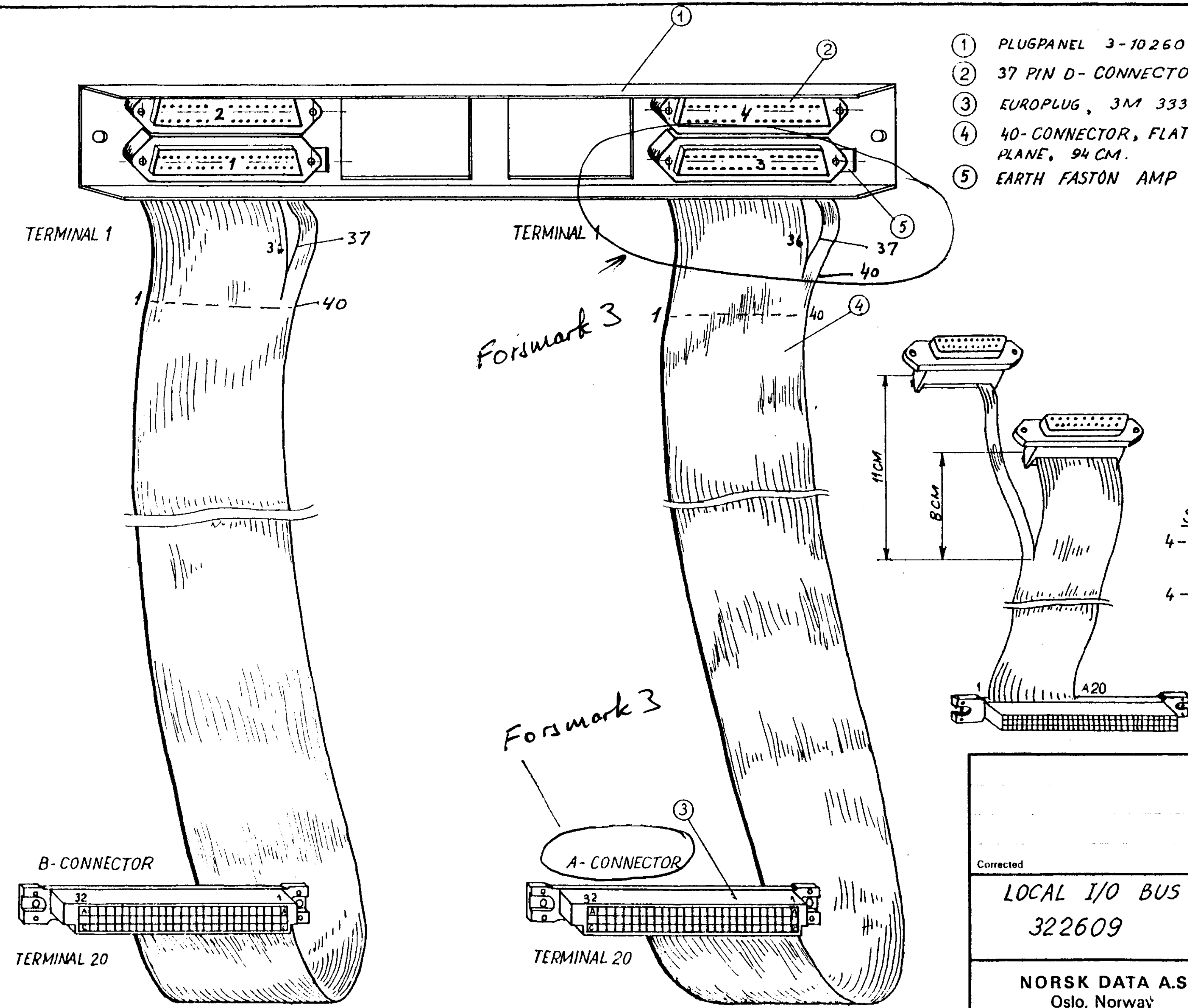
(7) FLAT CABLE 50 CONDUCTOR 90 CM

SEE DRAWING NO. 3-9326

Corrected	Date	Sign

INTERNAL CABLE FOR N-100 HDLC 322615 AND 322635	Scale	Drawn MJM 2.9.79 / Contr. / Appr.
NORSK DATA AS, OSLO, NORWAY	Replacement for: 3-9334	Replaced by

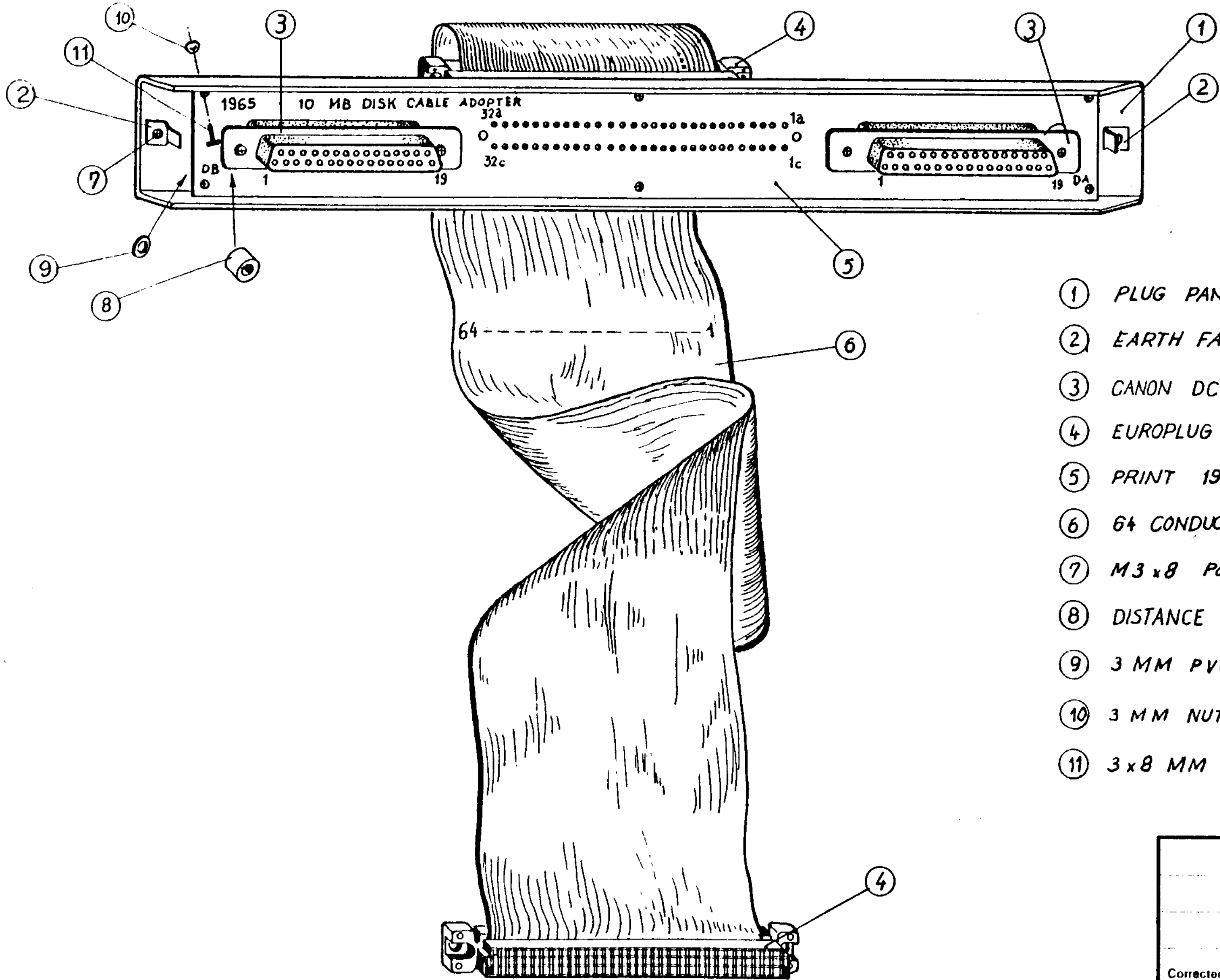
1. PLUGPANEL 3-10260
2. 37 PIN D-CONNECTOR, ANSLEY 609-37S
3. EUROPLUG, 3M 3332-0001
4. 40-CONNECTOR, FLAT CABLE WITHOUT GROUND-PLANE, 94 CM.
5. EARTH FASTON AMP 140 594



SEE DRAWING NO.
4-9410 TO 4-9422
AND
4-9428 TO 4-9434

Corrected	Date	Sign.

LOCAL I/O BUS FOR 322609	Scale	Drawn MJM 5/7-79 Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9335	
	Replaced by	

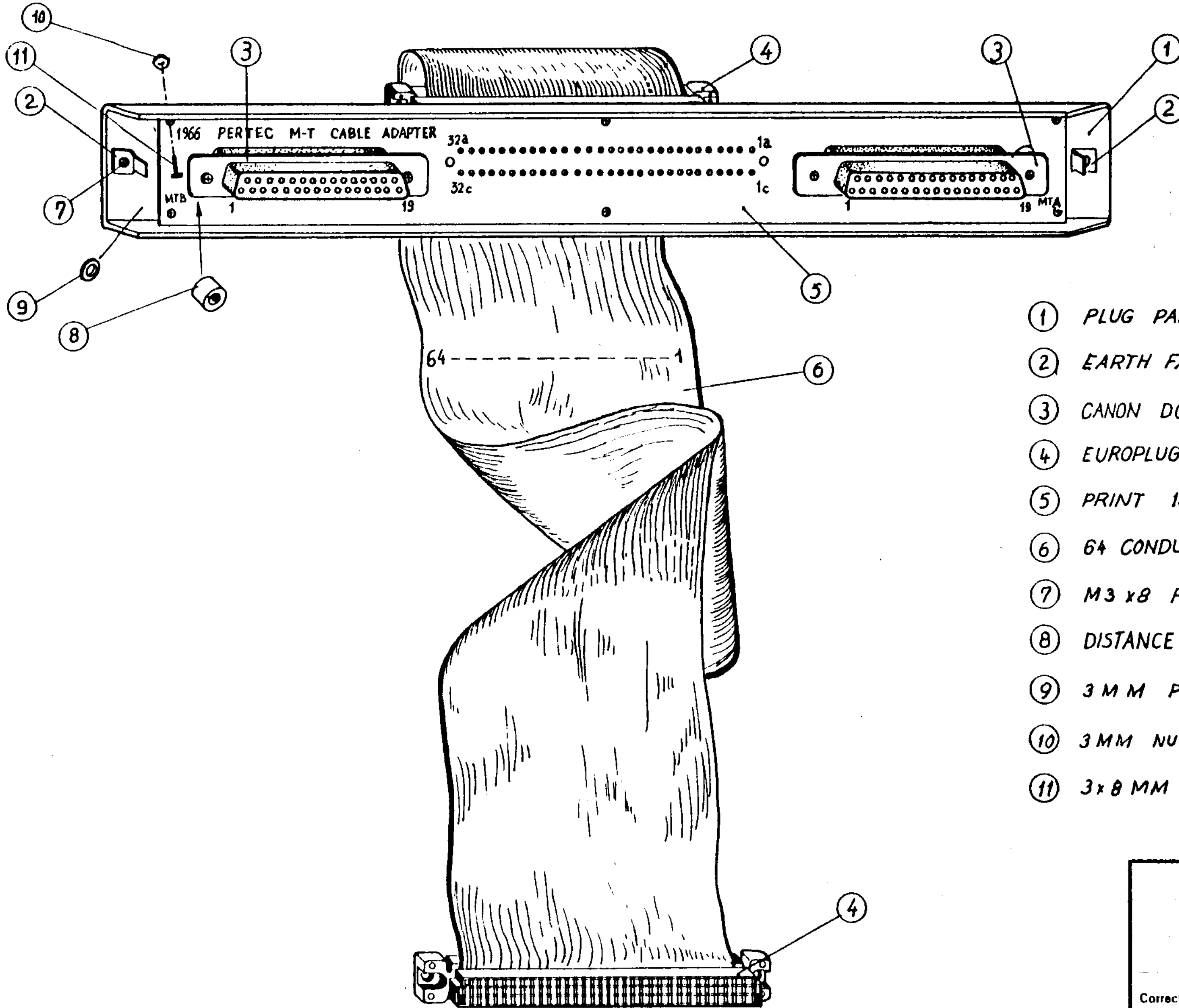


1. PLUG PANEL FOR DISK / MT DRG. NO. 3-10267
2. EARTH FASTON AMP 140594.
3. CANON DC 37 S - OL 2
4. EUROPLUG 3M 3332 - 0001
5. PRINT 1965
6. 64 CONDUCTOR FLATE CABLE WITHOUT GROUND PLANE 90CM.
7. M 3 x 8 POTZI PANHEAD
8. DISTANCE BUSH DRG. NO. 4-10394
9. 3 MM PVC WASHER
10. 3 MM NUT
11. 3 x 8 MM POTZI PAN HEAD

SEE DRG. NO - 3-9323

Corrected	Date	Sign.

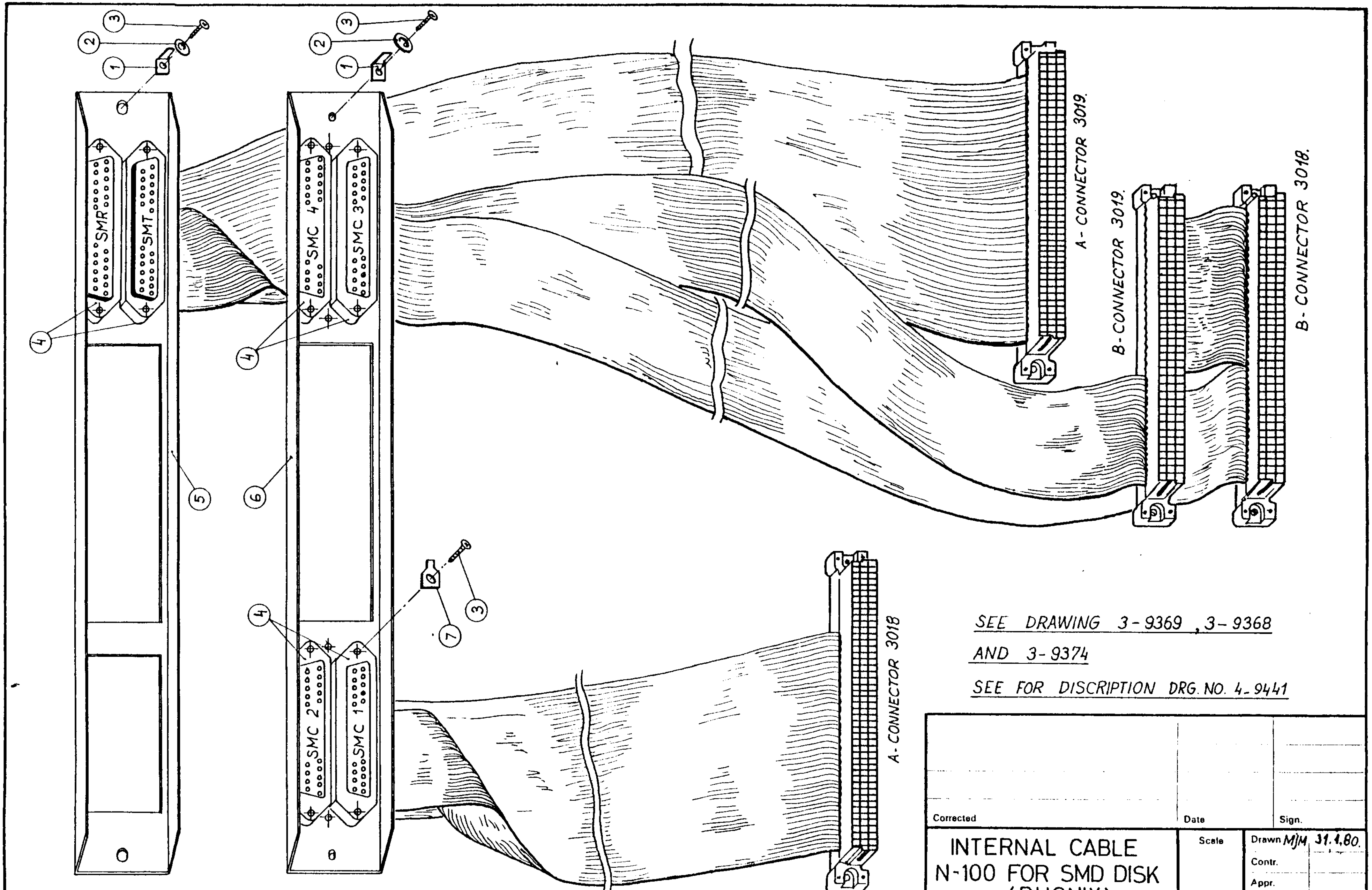
INTERNAL CABLE FOR 10 MB DISK N/100	Scale	Drawn NJM 3.9.79 Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9346	
	Replaced by	



1. PLUG PANEL FOR DISK / MT DRG. NO. 3-10267
2. EARTH FASTON AMP 140594.
3. CANON DC 37 S - OL 2
4. EUROPLUG 3M 3332-0001
5. PRINT 1966
6. 64 CONDUCTOR FLATE CABLE WITHOUT GROUND PLANE 90CM.
7. M3 x 8 POTZI PAN HEAD
8. DISTANCE BUSH DRG. NO. 4-10394
9. 3 MM P.V.C WASHER
10. 3 MM NUT
11. 3 x 8 MM POTZI PANHEAD.

SEE DRG. NO. 3-9312

Corrected		Date	Sign.
INTERNAL CABLE FOR PERTEC M-T FOR N/100	Scale	Drawn MJM 3.9.79 Contr. Appr.	
	Replacement for		
NORSK DATA A.S Oslo, Norway	3-9347		
	Replaced by		

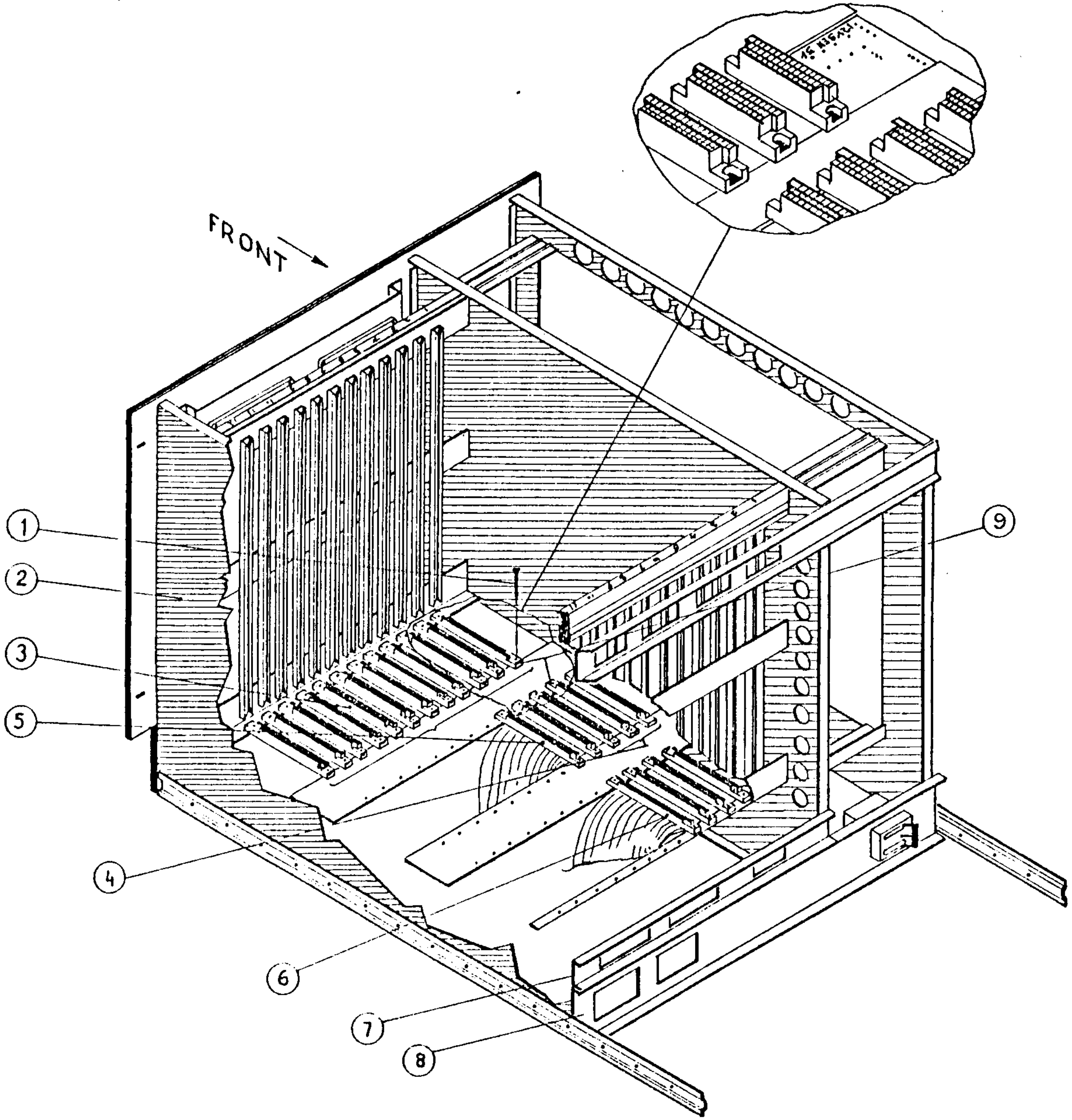


SEE DRAWING 3-9369, 3-9368

AND 3-9374

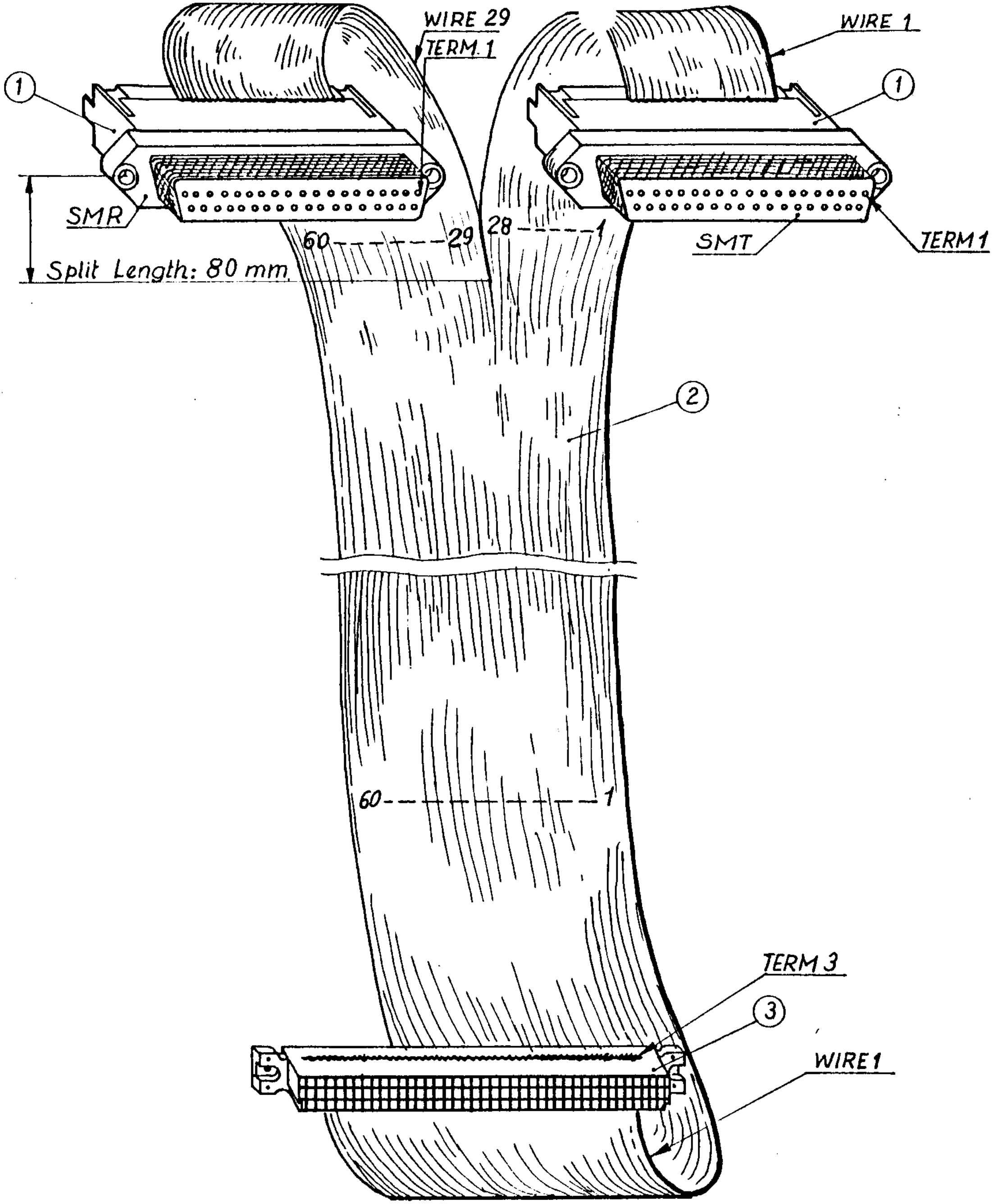
SEE FOR DISCRIPTION DRG. NO. 4-9441

Corrected	Date	Sign.
INTERNAL CABLE N-100 FOR SMD DISK (PHONIX)	Scale	Drawn MJM 31.1.80. / Contr. / Appr.
NORSK DATA A.S Oslo, Norway	Replacement for: 3-^361	Replaced by



1. 2.5 × 6 MM CYL. SCREW
2. N-100 ELECTRONIC MODULE
3. BACK WIRING PCB 6019 CONNECTOR C
4. PCB 1956 MANAGMANT CONNECTOR B
5. SIGNAL CABLES CONNECTOR B
6. SIGNAL CABLES CONNECTOR A
7. PLUG PANNEL SEE DRAWING NO. 3-9304 AND DRAWING FOR N-100 INTERNAL CABLES.
8. PLUG PANNEL FOR CONSOL AND OPRATÖR PANNEL
9. POSITION 1
10. CIRCUIT BREAKER

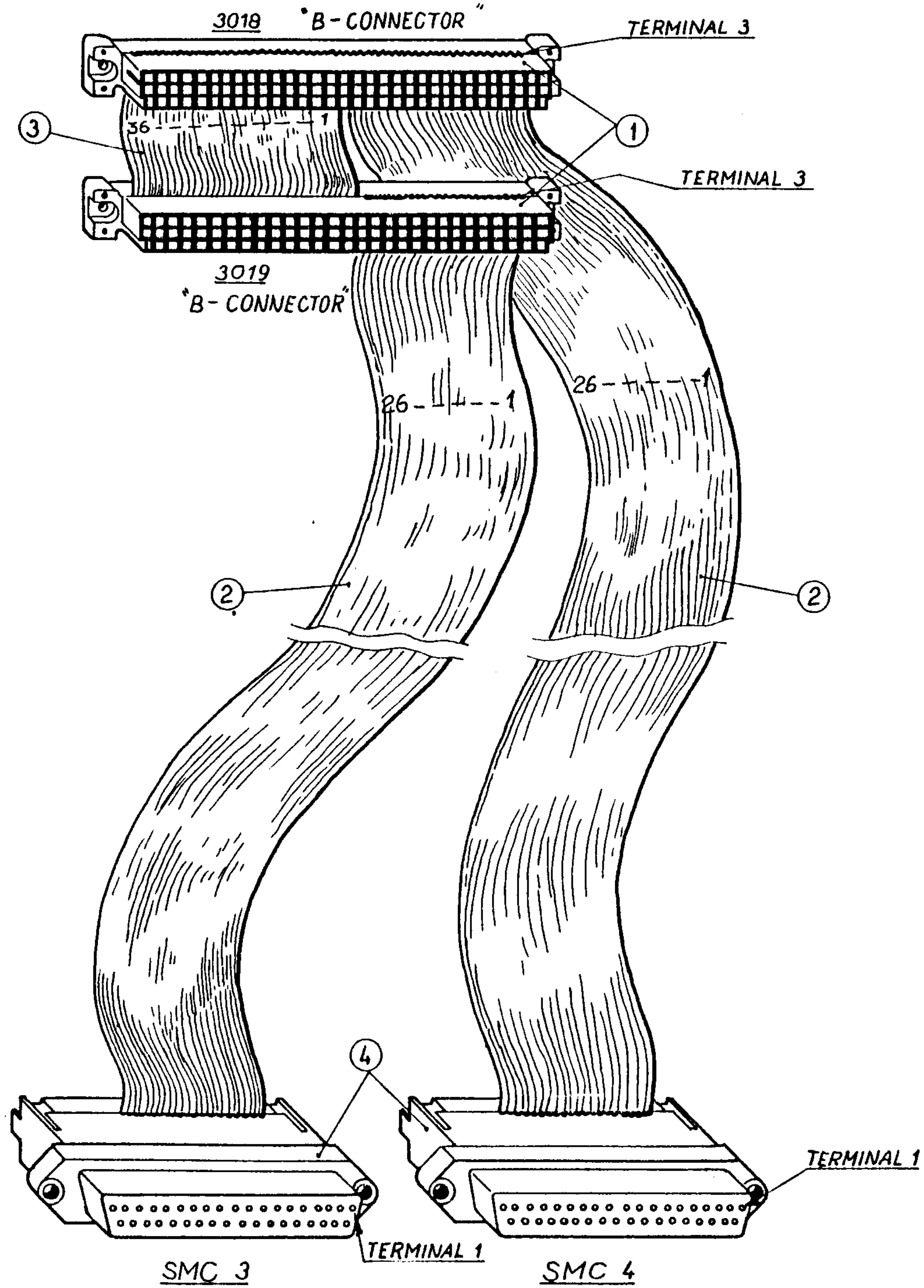
Corrected	Date	Sign.
MOUNTING DETAIL OF BACK WIRING AND SIGNAL CABLE N/100	Scale	Drawn MJM 24.10.79. Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9362	
	Replaced by	



A- CONNECTOR

1. 37-PIN D-CONNECTOR, ANSLEY 609-37S
2. 60. CONDUCTOR FLAT CABLE WITHOUT GRONDPLANE, 90 CM.
3. EUROPLUG, 3 M 3332-0001

Corrected	Date	Sign.
INTERNAL CABLE FOR NORD 100 SMD CONTROL 3019	Scale	Drawn MJM. 17.12.79. / Contr. / Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9368	
	Replaced by	



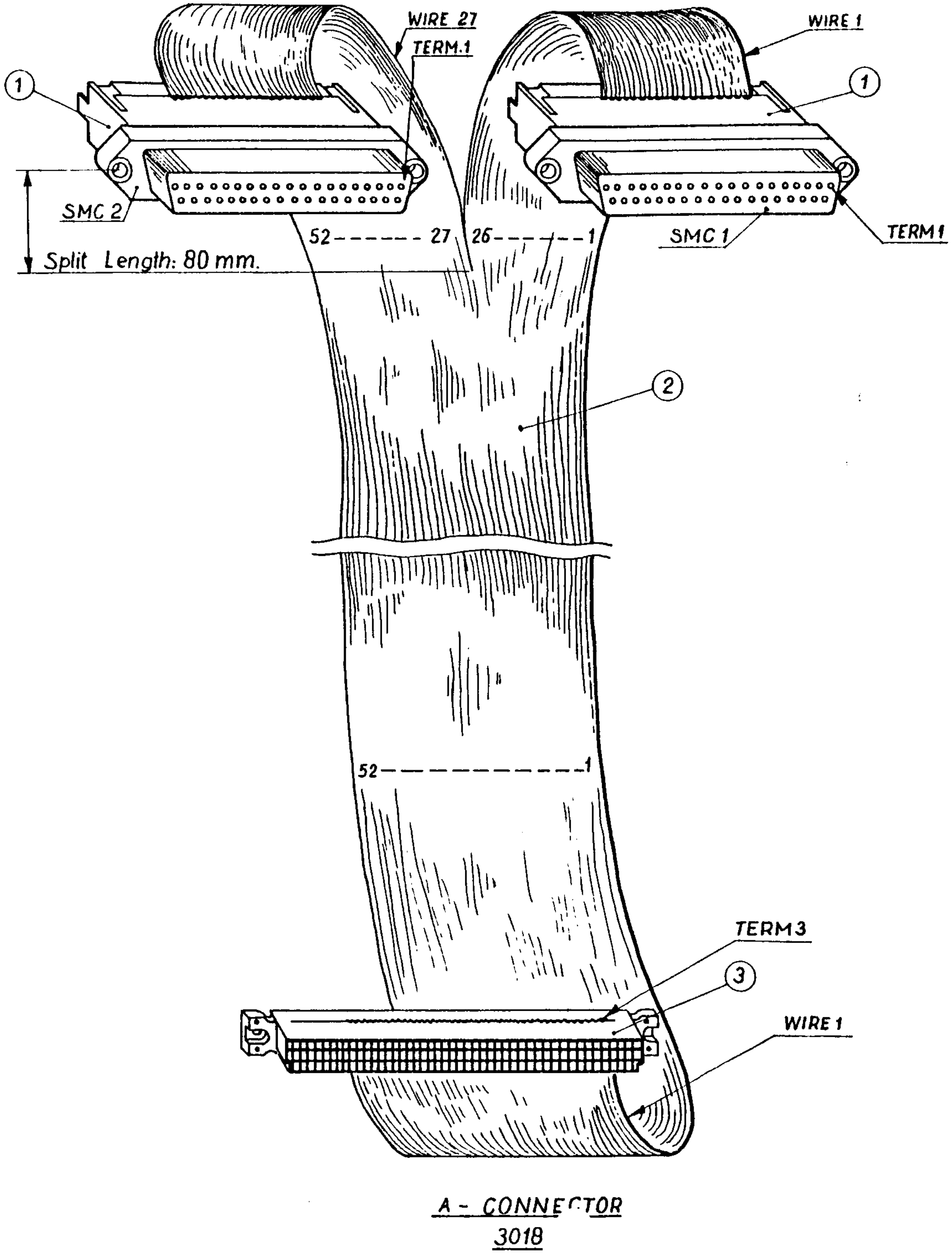
① EUROPLUG, 3 M 3332-0001

② 26 CONDUCTOR FLAT CABLE WITHOUT GROUNDPLANE, 90 CM LONG

③ 36 CONDUCTOR FLAT CABLE WITHOUT GROUNDPLANE, 4 CM LONG

④ 37-PIN D-CONNECTOR, ANSLEY 609-37S

Corrected	Date	Sign.
INTERNAL CABLE NORD 100 SMD CONTROL	Scale	Drawn MJM 19.12.79 Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9759	
	Replaced by	

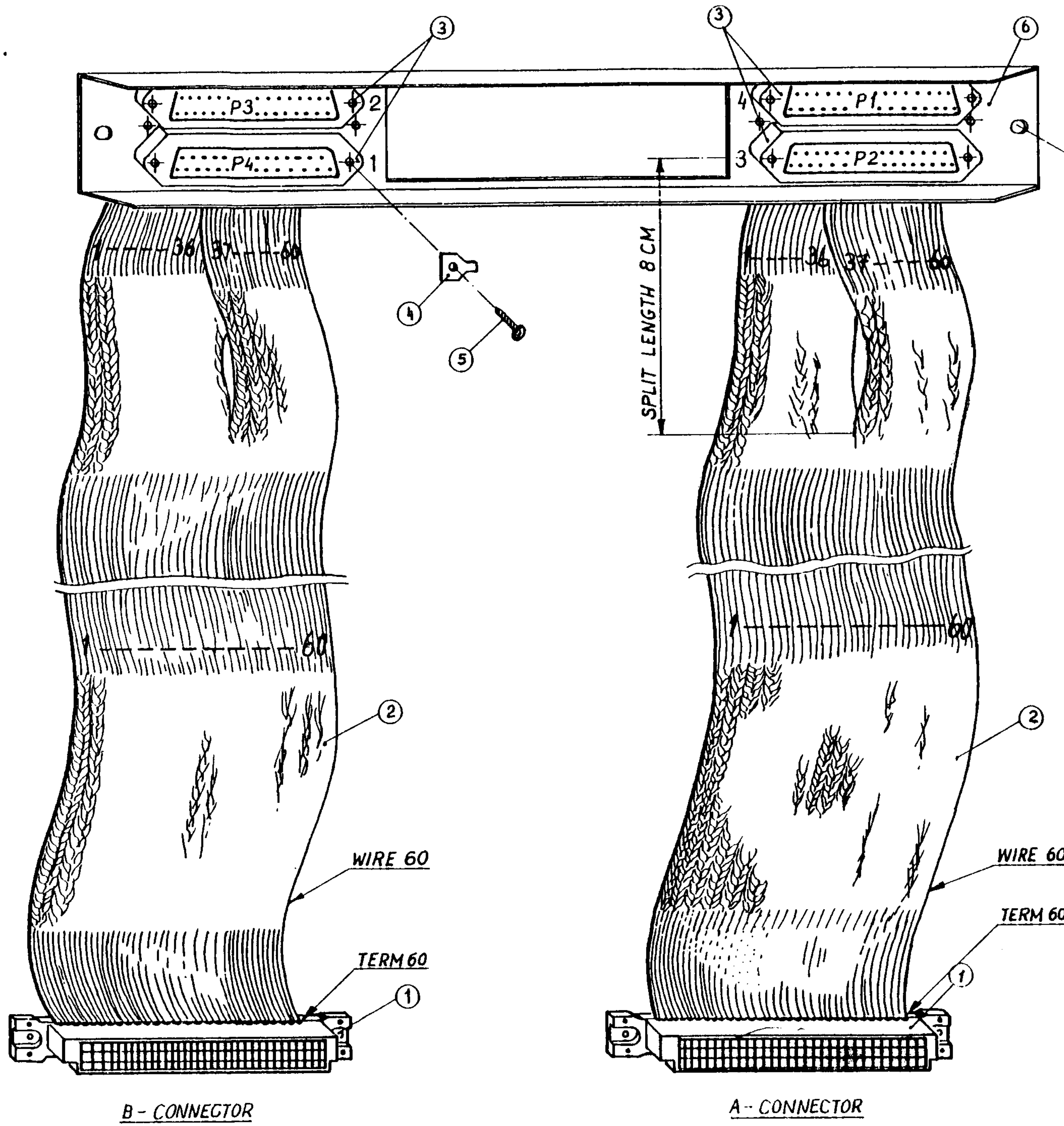


(1) 37-PIN D- CONNECTOR, ANSLEY 609-37S

(2) 60 CONDUCTOR FLAT CABLE WITHOUT GROUNDPLANE 90CM.

(3) EUROPLUG, 3 M 3332-0001

Corrected	Date	Sign.
INTERNAL CABLE FOR NORD 100 SMD CONTROL 3018	Scale	Drawn MJM 16.1.80. Contr. Appr.
	Replacement for	
NORSK DATA A.S Oslo, Norway	3-9~74	
	Replaced by	



(1) EUROPLUG, 3M 3332 - 0001

(2) 60 CONNDUCTOR FLATE AND TWISTED CABLE WITHOUT GROUND PLANE, LENGTH 100 CM.

(3) 37 - PIN D - CONNECTOR, ANSLEY 609 - 37 S

(4) STRAIN-RELIEF FOR D-CONNECTOR. DRG. NO. 4 - 10506

(5) 3/8" NO.4 PAN HEAD SHEET-METAL SCREW

(6) PLUG PANEL DRAWING NO. 3 - 10295

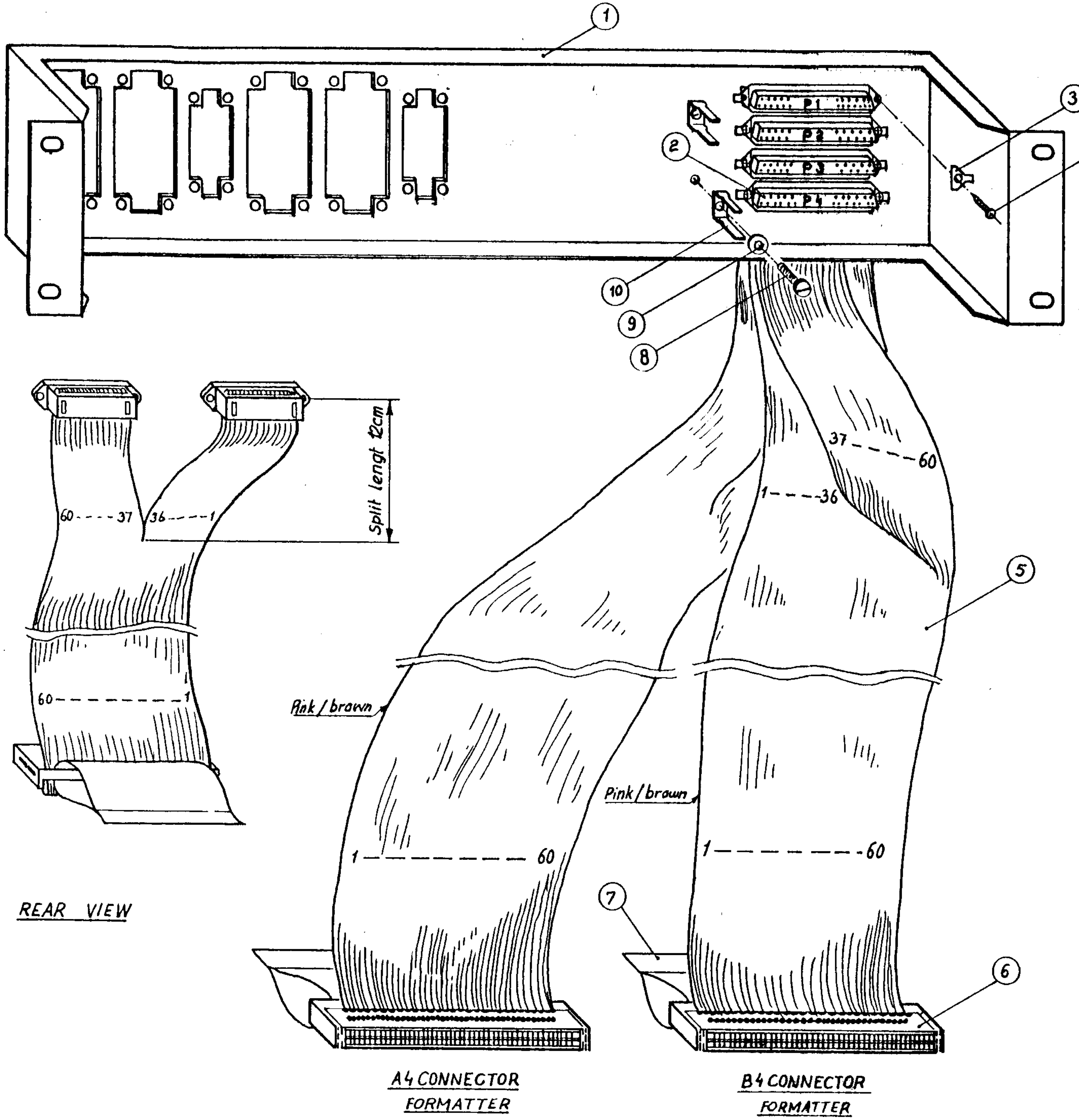
(7) EARTH FASTON AMP 140594.

(8) SPRING WASHER 3 MM.

NB! (4) IS USED IN ALL PLUG'S MOUNTING SCREWS.

SEE DRAWING NO. 3-9379 AND 3-9380

Corrected	Date	Sign.
NORD-100 STC MAGTAPE CONTRO-LLER	Scale	Drawn MJH 17/1-80 Contr. Appr.
NORSK DATA A.S Oslo, Norway	Replacement for 3 - 9378 Replaced by	



1. PLUG PANEL PHONIX DRAWING NO. 2-10442
2. 37 PIN D CONNECTOR ANSLEY 609-37 S
3. STRAIN RELIF FOR D-CONNECTOR DRG. NO. 4-10506
4. 3/8" NO.4 PAN HEAD SHEET METAL SCREW
5. 60 CONNDUCTOR TWIST AND FLAT LENGTH 150 CM.
6. 60 PIN ANSLAY 609-609-6001 M
7. 3M 3490-5 PULL TAB.
8. 4 x 10 CYL. SCREW
9. 4 MM SPRING WASHER
10. EARTH FASTON 140608

NB!

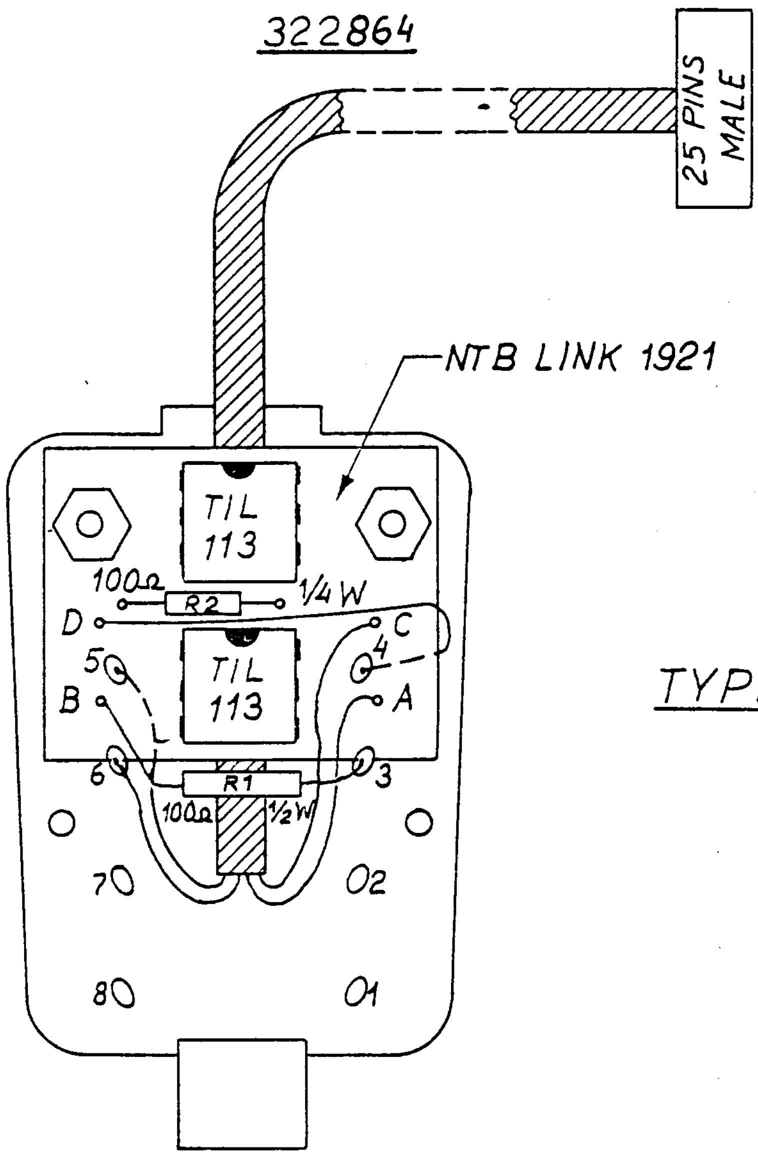
SEE DRAWING NO. 3-9379 AND 3-9380.

Corrected	Date	Sign.

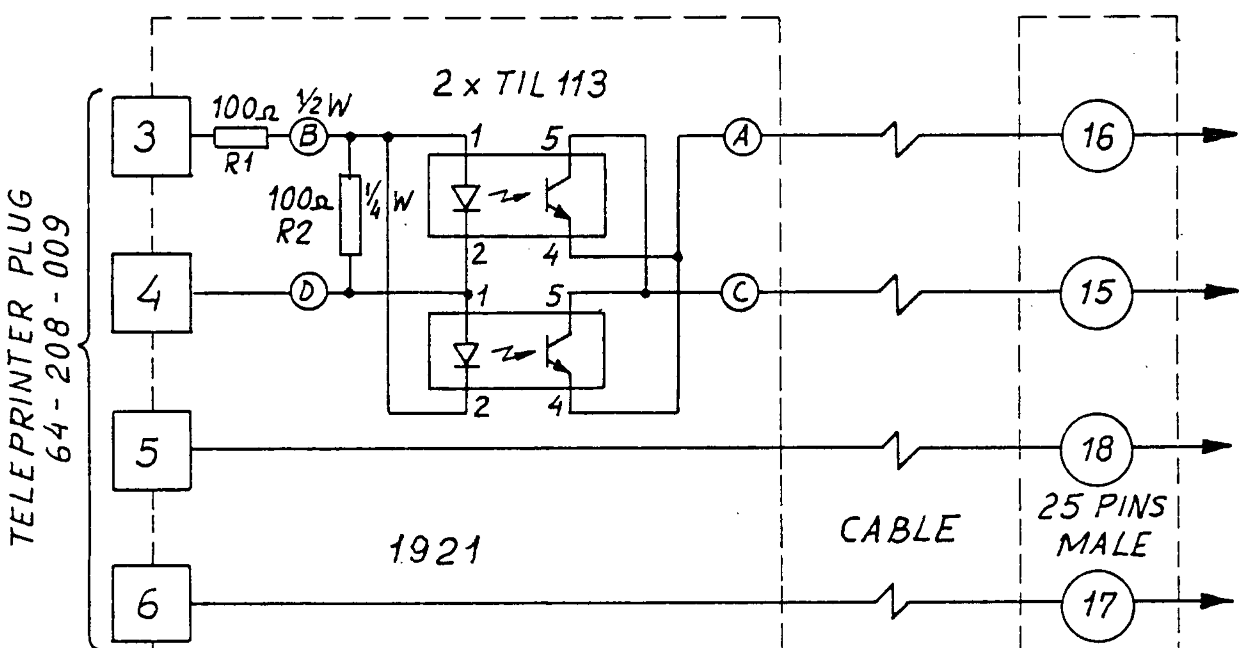
INTERNAL CABLE STC MT FORMATTER	Scale ~	Drawn MJM Contr. Appr.	19.3.80
NORSK DATA A.S. OSLO, NORWAY	Replacement for 3-9382 Replaced by		

NORSK DATA A.S Oslo, Norway	Title NTB TELEPRINTER INTERFACE DEVICE CABLE WITH 1-4 PLUG MODIFIED 3013 CARD	Drawing no. 4-9449

322864

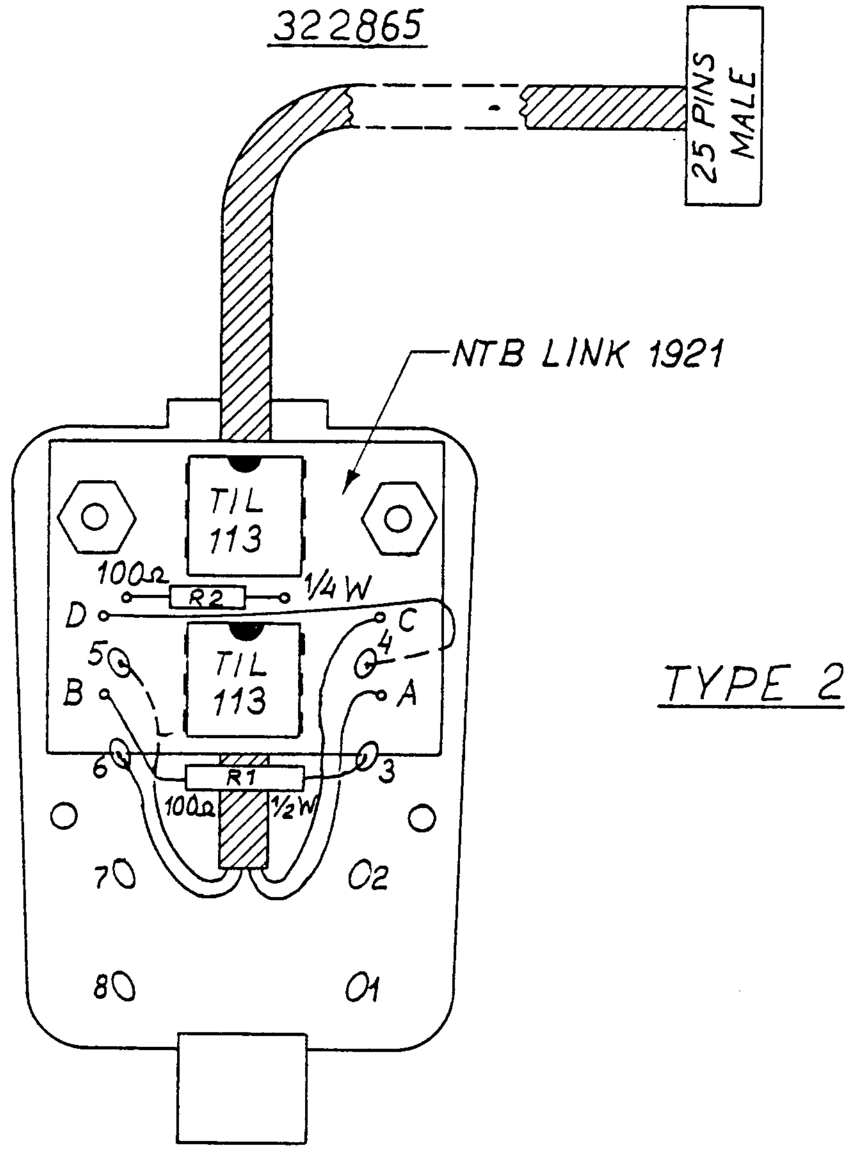


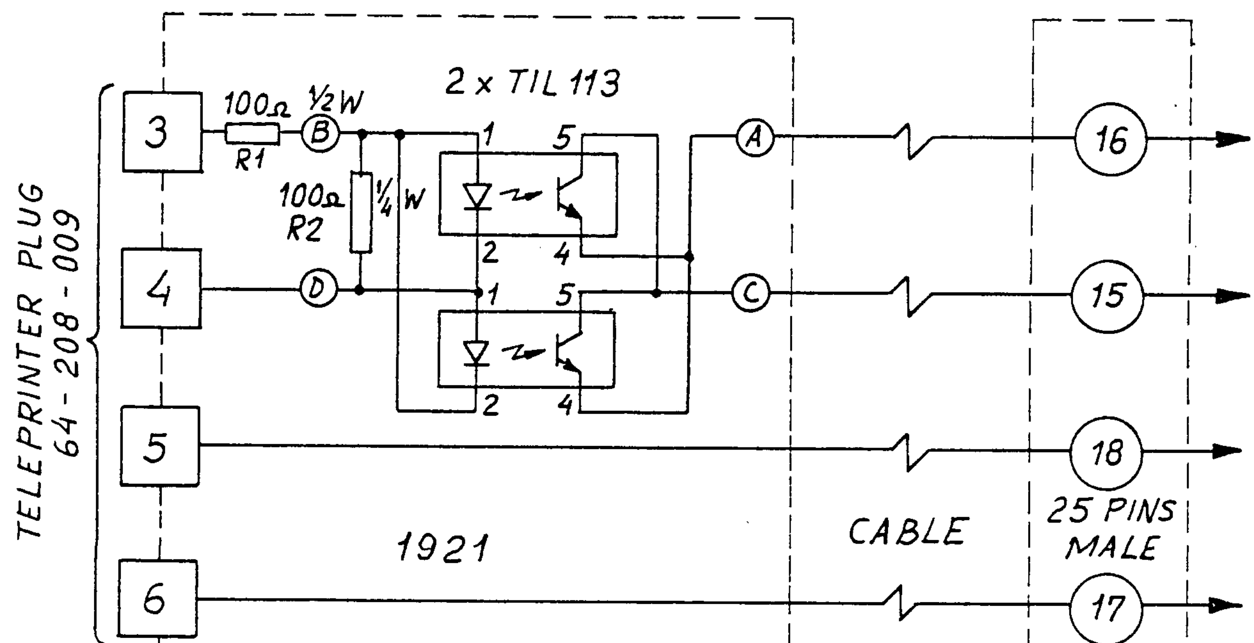
TYPE 1



DRAWN BY MJM APPROVED BY DATE 4.9.80.	Remarks Circuit Diagram Arrangement Drawing Cable List	Replacement for Date Replaced by Date

NORSK DATA A.S Oslo, Norway	Title NTB TELEPRINTER INTERFACE DEVICE CABLE WITH 3-4 PLUG MODIFIED 3013 CARD	Drawing no. 4-9450





DRAWN BY MJM	Remarks	Replacement for	Date
APPROVED BY	Circuit Diagram Arrangement Drawing Cable List		
DATE 4.9.80.		Replaced by	Date

1.4 *SETTING OF DEVICE NUMBERS, IDENT CODES AND TRANSMISSION SPEEDS*

The system supervisor may have to change the settings of IOX device numbers, ident codes and transmission speeds of certain interface cards. Some tables are needed for this purpose.

1.4.1 *Synchronous Modem Coding*

On the NORD-10/S 1050 Synchronous Modem Buffer Card there are two select functions to be set.

Select 1: Device number, Position 15E
Select 2: Ident code, Position 1E

15E [4 3 2 1]→ to finger contacts 1E [4 3 2 1]→ to finger contacts

Device No.(IOX)	Modem No.(octal)	Ident Code	Device No. 15E1	15E2	15E3	15E4	Ident Code 1E1	1E2	1E3	1E4
100	1(0)	4	OFF	OFF	OFF	OFF	OFF	ON	ON	ON
110	2(1)	14	OFF	OFF	OFF	ON	OFF	OFF	ON	ON
120	3(2)	20	OFF	OFF	ON	OFF	ON	ON	OFF	ON
130	4(3)	24	OFF	OFF	ON	ON	OFF	ON	OFF	ON

Input Channel (To the Computer):

	SWITCH SETTING				IOX (GP + 1) CONTENT IN A REGISTER								
	15E4	15E3	15E2	15E1	Bit 7							Bit 0	Octal
9600	ON	ON	ON	ON	X	X	X	X	0	0	0	0	0
4800	ON	ON	ON	OFF	X	X	X	X	0	0	0	1	1
2400	ON	ON	OFF	ON	X	X	X	X	0	0	1	0	2
1200	ON	ON	OFF	OFF	X	X	X	X	0	0	1	1	3
600	OFF	ON	ON	ON	X	X	X	X	1	0	0	0	10
300	OFF	ON	ON	OFF	X	X	X	X	1	0	0	1	11
200	OFF	OFF	ON	OFF	X	X	X	X	1	1	0	1	15
150	OFF	ON	OFF	ON	X	X	X	X	1	0	1	0	12
110	OFF	OFF	ON	ON	X	X	X	X	1	1	0	0	14
100	OFF	OFF	OFF	ON	X	X	X	X	1	1	1	0	16
75	OFF	ON	OFF	OFF	X	X	X	X	1	0	1	1	13
50	OFF	OFF	OFF	OFF	X	X	X	X	1	1	1	1	17

Output Channel (From the Computer):

	SWITCH SETTING				IOX (GP + 1) CONTENT IN A REGISTER								
	15E8	15E7	15E6	15E5	Bit 7							Bit 0	Octal
9600	ON	ON	ON	ON	0	0	0	0	X	X	X	X	000
4800	ON	ON	ON	OFF	0	0	0	1	X	X	X	X	020
2400	ON	ON	OFF	ON	0	0	1	0	X	X	X	X	040
1200	ON	ON	OFF	OFF	0	0	1	1	X	X	X	X	060
600	OFF	ON	ON	ON	1	0	0	0	X	X	X	X	200
300	OFF	ON	ON	OFF	1	0	0	1	X	X	X	X	220
200	OFF	OFF	ON	OFF	1	1	0	1	X	X	X	X	320
150	OFF	ON	OFF	ON	1	0	1	0	X	X	X	X	240
110	OFF	OFF	ON	ON	1	1	0	0	X	X	X	X	300
100	OFF	OFF	OFF	ON	1	1	1	0	X	X	X	X	340
75	OFF	ON	OFF	OFF	1	0	1	1	X	X	X	X	260
50	OFF	OFF	OFF	OFF	1	1	1	1	X	X	X	X	360

Note:
Input and output baud rates are selected by the same IOX instruction. If the A register is set to octal value 14 before the IOX instruction is executed, 110 baud will be selected for input, and 9600 baud will be selected for output. To get 110 baud on both the input and output channel, the octal value 314 should be placed in the A register before the IOX instruction is executed.

Select 3: Ident code

Position 1E

6 5 4 3 2 1	→ to finger contacts

Teletype Number	IOX	Code Ident	1E1	1E2	1E3	1E4	1E5	1E6
1	300	1	OFF	ON	ON	ON	ON	ON
2	310	5	OFF	ON	OFF	ON	ON	ON
3	320	6	ON	OFF	OFF	ON	ON	ON
4	330	7	OFF	OFF	OFF	ON	ON	ON
5	340	44	ON	ON	OFF	ON	ON	OFF
6	350	45	OFF	ON	OFF	ON	ON	OFF
7	360	46	ON	OFF	OFF	ON	ON	OFF
8	370	47	OFF	OFF	OFF	ON	ON	OFF
9	1300	50	ON	ON	ON	OFF	ON	OFF
10	1310	51	OFF	ON	ON	OFF	ON	OFF
11	1320	52	ON	OFF	ON	OFF	ON	OFF
12	1330	53	OFF	OFF	ON	OFF	ON	OFF
13	1340	54	ON	ON	OFF	OFF	ON	OFF
14	1350	55	OFF	ON	OFF	OFF	ON	OFF
15	1360	56	ON	OFF	OFF	OFF	ON	OFF
16	1370	57	OFF	OFF	OFF	OFF	ON	OFF

Terminal Buffer 1095

Select 3: Ident code

Position IE

7	6	5	4	3	2	1	→ to finger contacts

Teletype/ Modem No.			Ident Code	IE7	IE6	IE5	IE4	IE3	IE2	IE1
1	200		60	ON	OFF	OFF	ON	ON	ON	ON
2	210		61	ON	OFF	OFF	ON	ON	ON	OFF
3	220		62	ON	OFF	OFF	ON	ON	OFF	ON
4	230	Async.	63	ON	OFF	OFF	ON	ON	OFF	OFF
5	240	modem	64	ON	OFF	OFF	ON	OFF	OFF	ON
6	250		65	ON	OFF	OFF	ON	OFF	ON	OFF
7	260		66	ON	OFF	OFF	ON	OFF	OFF	ON
8	270		66	ON	OFF	OFF	ON	OFF	OFF	OFF
1	300		1	ON	ON	ON	ON	ON	ON	OFF
2	310		5	ON	ON	ON	ON	OFF	ON	OFF
3	320		6	ON	ON	ON	ON	OFF	OFF	ON
4	330	Teletype	7	ON	ON	ON	ON	OFF	OFF	OFF
5	340	display	44	ON	OFF	ON	ON	OFF	ON	ON
6	350		45	ON	OFF	ON	ON	OFF	ON	OFF
7	360		46	ON	OFF	ON	ON	OFF	OFF	ON
8	370		47	ON	OFF	ON	ON	OFF	OFF	OFF
9	1200		70	ON	OFF	OFF	OFF	ON	ON	ON
10	1210		71	ON	OFF	OFF	OFF	ON	ON	OFF
11	1220		72	ON	OFF	OFF	OFF	ON	OFF	ON
12	1230	Async.	73	ON	OFF	OFF	OFF	ON	OFF	OFF
13	1240	modem	74	ON	OFF	OFF	OFF	OFF	ON	ON
14	1250		75	ON	OFF	OFF	OFF	OFF	ON	OFF
15	1260		76	ON	OFF	OFF	OFF	OFF	OFF	ON
16	1280		77	ON	OFF	OFF	OFF	OFF	OFF	OFF
9	1300		50	ON	OFF	ON	OFF	ON	ON	ON
10	1310		51	ON	OFF	ON	OFF	ON	ON	OFF
11	1320		52	ON	OFF	ON	OFF	ON	OFF	ON
12	1330	Teletype	53	ON	OFF	ON	OFF	ON	OFF	OFF
13	1340	display	54	ON	OFF	ON	OFF	OFF	ON	ON
14	1350		55	ON	OFF	ON	OFF	OFF	ON	OFF
15	1360		56	ON	OFF	ON	OFF	OFF	OFF	ON
16	1370		57	ON	OFF	ON	OFF	OFF	OFF	OFF

1.4.4 *Terminal Buffer (NORD-10 1095) Interface*

Device Number Selection

Device numbers are selected by the switches in position 9B. The combinations are:

Device No. (IOX)	Terminal/ Modem No.	9B1	9B2	9B3	9B4	9B5	
200	1	OFF	OFF	OFF	OFF	OFF	
210	2	OFF	OFF	OFF	OFF	ON	
220	3	OFF	OFF	OFF	ON	OFF	
230	4	OFF	OFF	OFF	ON	ON	Asynchronous modem
240	5	OFF	OFF	ON	OFF	OFF	
250	6	OFF	OFF	ON	OFF	ON	
260	7	OFF	OFF	ON	ON	OFF	
270	8	OFF	OFF	ON	ON	ON	
300	1	OFF	ON	OFF	OFF	OFF	
310	2	OFF	ON	OFF	OFF	ON	
320	3	OFF	ON	OFF	ON	OFF	
330	4	OFF	ON	OFF	ON	ON	Teletype display
340	5	OFF	ON	ON	OFF	OFF	
350	6	OFF	ON	ON	OFF	ON	
360	7	OFF	ON	ON	ON	OFF	
370	8	OFF	ON	ON	ON	ON	
1200	9	ON	OFF	OFF	OFF	OFF	
1210	10	ON	OFF	OFF	OFF	ON	
1220	11	ON	OFF	OFF	ON	OFF	
1230	12	ON	OFF	OFF	ON	ON	Asynchronous modem
1240	13	ON	OFF	ON	OFF	OFF	
1250	14	ON	OFF	ON	OFF	ON	
1260	15	ON	OFF	ON	ON	OFF	
1270	16	ON	OFF	ON	ON	ON	
1300	9	ON	ON	OFF	OFF	OFF	
1310	10	ON	ON	OFF	OFF	ON	
1320	11	ON	ON	OFF	ON	OFF	
1330	12	ON	ON	OFF	ON	ON	Teletype display
1340	13	ON	ON	ON	OFF	OFF	
1350	14	ON	ON	ON	OFF	ON	
1360	15	ON	ON	ON	ON	OFF	
1370	16	ON	ON	ON	ON	ON	