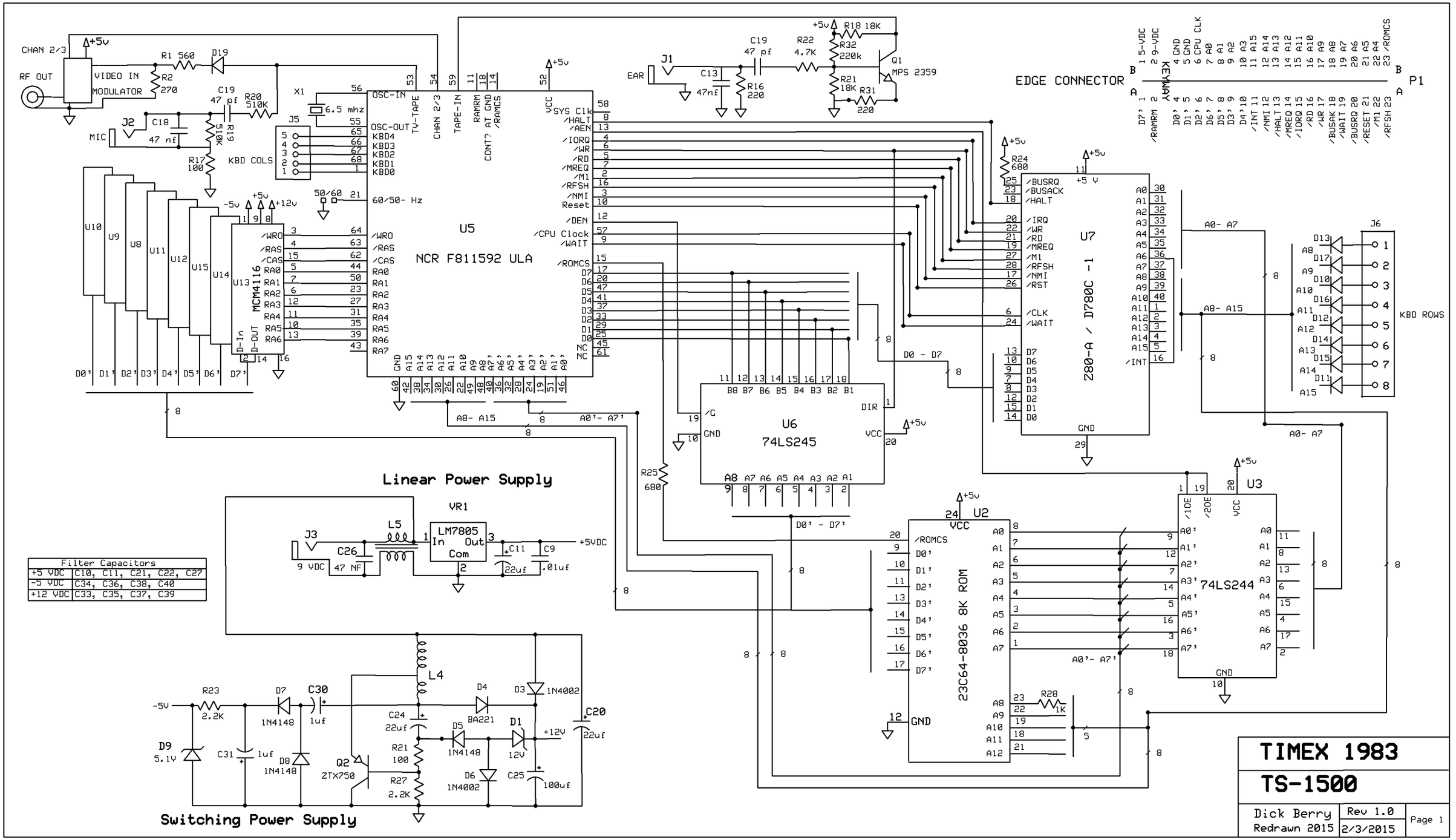
CHAN 2/3
RF OUT
+5v
VIDEO IN
MODULATOR
R1 560
R2 270
D19
C19 47 pf
R20 510K
R19 510K
J2
MIC
C18 47 nf
R17 100
KBD COLS
X1
6.5 mhz
J5
OSC-IN
OSC-OUT
KBD4
KBD3
KBD2
KBD1
KBD0
TV-TAPE
CHAN 2/3
TAPE-IN
RAMRM
CONT? AT GND
/RAMCS
VCC
SYS Clk
/HALT
/AEN
/IORQ
/WR
/RD
/MREQ
/M1
/RFSH
/NMI
Reset
/DEN
/CPU Clock
/WAIT
/ROMCS
D7
D6
D5
D4
D3
D2
D1
D0
NC
NC
50/60
60/50- Hz
U5
NCR F811592 ULA
-5v
+12v
U10
U9
U8
U11
U12
U15
U14
U13
MCM4116
/WRQ
/RAS
/CAS
RA0
RA1
RA2
RA3
RA4
RA5
RA6
RA7
D-In
D-OUT
D0' D1' D2' D3' D4' D5' D6' D7'
A8- A15
A0'- A7'
J1
EAR
C13 47nf
R16 220
C19 47 pf
R22 4.7K
R18 18K
R32 220k
R21 18K
R31 220
Q1
MPS 2359
EDGE CONNECTOR
KEYWAY
P1
1 5-VDC
2 9-VDC
4 GND
5 GND
6 CPU CLK
7 A0
8 A1
9 A2
10 A3
11 A15
12 A14
13 A13
14 A12
15 A11
16 A10
17 A9
18 A8
19 A7
20 A6
21 A5
22 A4
23 /ROMCS
D7' 1
/RAMRM 2
D0' 4
D1' 5
D2' 6
D6' 7
D5' 8
D3' 9
D4'10
/INT 11
/NMI 12
/HALT 13
/MREQ 14
/IORQ 15
/RD 16
/WR 17
/BUSAK 18
/WAIT 19
/BUSRQ 20
/RESET 21
/M1 22
/RFSH 23
R24 680
U7
Z80-A / D780C -1
/BUSRQ
/BUSACK
/HALT
/IRQ
/WR
/RD
/MREQ
/M1
/RFSH
/NMI
/RST
/CLK
/WAIT
/INT
GND
+5 V
A0- A7
A8- A15
J6
KBD ROWS
U6
74LS245
/G
DIR
GND
VCC
B8 B7 B6 B5 B4 B3 B2 B1
A8 A7 A6 A5 A4 A3 A2 A1
D0 - D7
D0' - D7'
R25 680
U2
24
VCC
23C64-8036 8K ROM
/ROMCS
D0'
D1'
D2'
D3'
D4'
D5'
D6'
D7'
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
GND
R28 1K
U3
74LS244
/1OE
/2OE
VCC
A0'
A1'
A2'
A3'
A4'
A5'
A6'
A7'
GND
Linear Power Supply
VR1
LM7805
In
Out
Com
J3
9 VDC
L5
C26 47 NF
C11 22uf
C9 .01uf
+5VDC
Filter Capacitors
+5 VDC C10, C11, C21, C22, C27
-5 VDC C34, C36, C38, C40
+12 VDC C33, C35, C37, C39
Switching Power Supply
L4
R23 2.2K
D7 1N4148
C30 1uf
D9 5.1v
C31 1uf
D8 1N4148
Q2 2TX750
R21 100
R27 2.2K
C24 22uf
D5 1N4148
D4 BA221
D3 1N4002
D1 12v
D6 1N4002
C25 100uf
C20 22uf
+12v
TIMEX 1983
TS-1500
Dick Berry
Redrawn 2015
Rev 1.0
2/3/2015
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