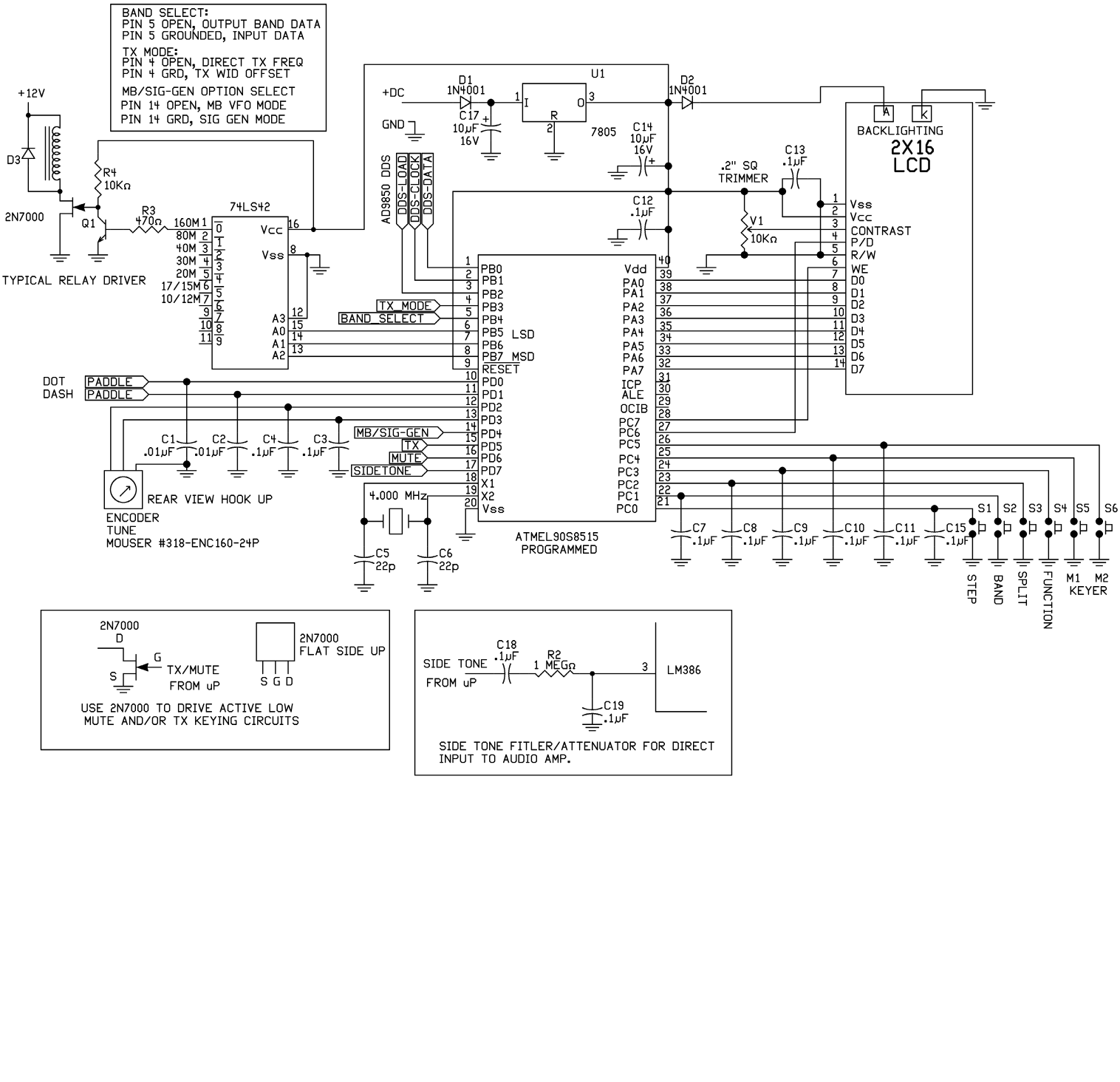
BAND SELECT:
PIN 5 OPEN, OUTPUT BAND DATA
PIN 5 GROUNDED, INPUT DATA
TX MODE:
PIN 4 OPEN, DIRECT TX FREQ
PIN 4 GRD, TX WID OFFSET
MB/SIG-GEN OPTION SELECT
PIN 14 OPEN, MB VFO MODE
PIN 14 GRD, SIG GEN MODE
+12V
D3
R4
10KΩ
2N7000
Q1
R3
470Ω
TYPICAL RELAY DRIVER
74LS42
160M
80M
40M
30M
20M
17/15M
10/12M
Vcc
Vss
A3
A0
A1
A2
AD9850 DDS
DDS-LOAD
DDS-CLOCK
DDS-DATA
+DC
D1
1N4001
C17
10µF
16V
GND
U1
7805
D2
1N4001
C14
10µF
16V
C12
.1µF
.2" SQ
TRIMMER
C13
.1µF
V1
10KΩ
BACKLIGHTING
2X16
LCD
Vss
Vcc
CONTRAST
P/D
R/W
WE
D0
D1
D2
D3
D4
D5
D6
D7
TX_MODE
BAND_SELECT
PB0
PB1
PB2
PB3
PB4
PB5 LSD
PB6
PB7 MSD
RESET
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
X1
X2
Vss
Vdd
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
ICP
ALE
OCIB
PC7
PC6
PC5
PC4
PC3
PC2
PC1
PC0
ATMEL90S8515
PROGRAMMED
DOT
DASH
PADDLE
PADDLE
C1
.01µF
C2
.01µF
C4
.1µF
C3
.1µF
MB/SIG-GEN
TX
MUTE
SIDETONE
REAR VIEW HOOK UP
ENCODER
TUNE
MOUSER #318-ENC160-24P
4.000 MHz
C5
22p
C6
22p
C7
.1µF
C8
.1µF
C9
.1µF
C10
.1µF
C11
.1µF
C15
.1µF
S1
S2
S3
S4
S5
S6
STEP
BAND
SPLIT
FUNCTION
M1
M2
KEYER
2N7000
D
G
S
TX/MUTE
FROM uP
2N7000
FLAT SIDE UP
S G D
USE 2N7000 TO DRIVE ACTIVE LOW
MUTE AND/OR TX KEYING CIRCUITS
SIDE TONE
FROM uP
C18
.1µF
R2
1 MEGΩ
C19
.1µF
LM386
SIDE TONE FITLER/ATTENUATOR FOR DIRECT
INPUT TO AUDIO AMP.