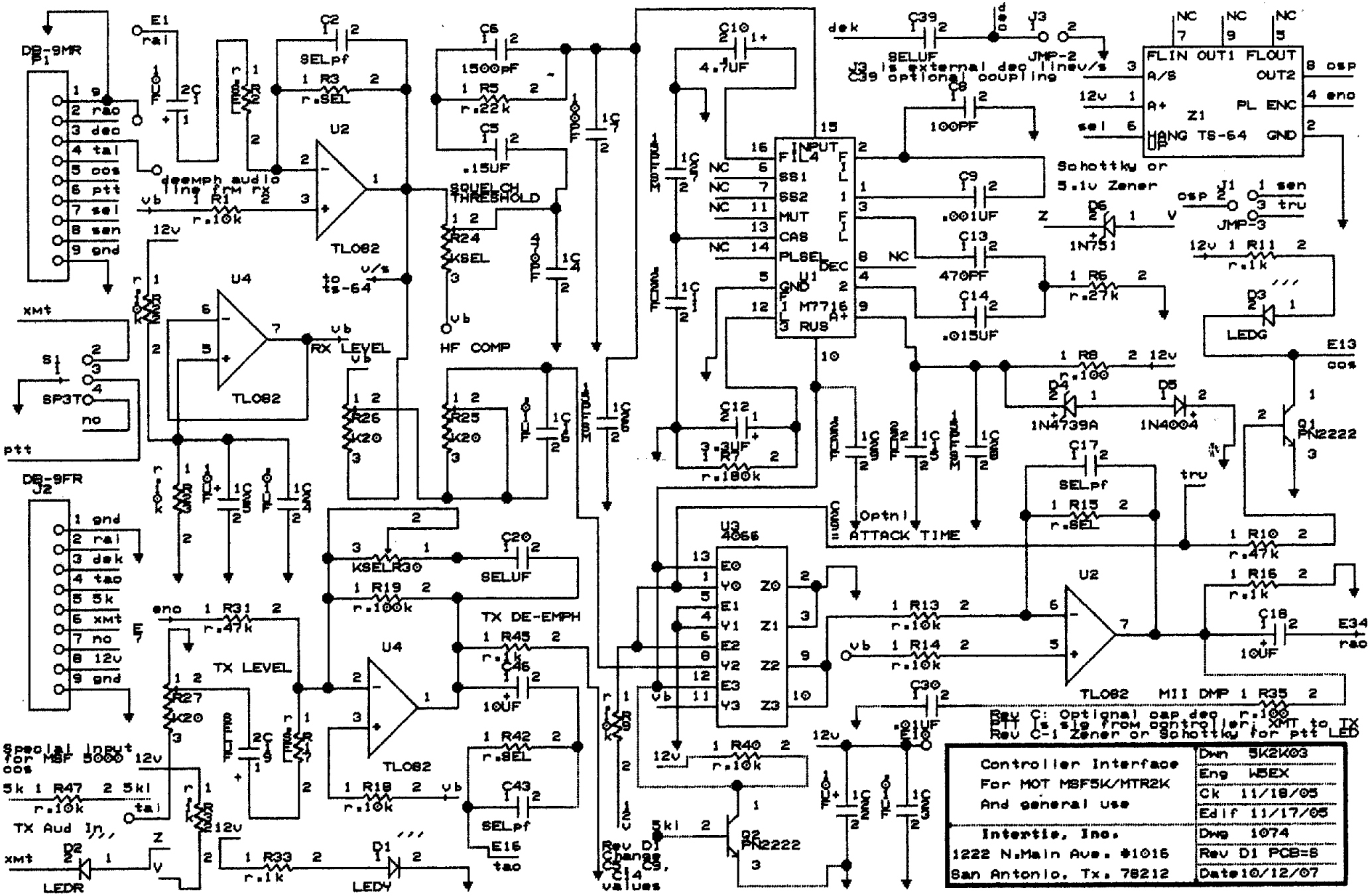
DB-9MR
J1
1 gnd
2 rai
3 dek
4 tai
5 oos
6 ptt
7 sel
8 sen
9 gnd
E1
rai
2C1
SELpf
R3
r.SEL
C2
deemph audio
line from rx
R1
r.10k
vb
12v
U2
TL082
C6
1500pF
R5
r.22k
C5
.15UF
SQUELCH
THRESHOLD
R24
KSEL
HF COMP
to
ts-64
v/s
C7
.47UF
C4
.47UF
U4
TL082
xmt
S1
SP3T
no
ptt
RX LEVEL
R26
K20
R25
K20
C8
.47UF
C9
.47UF
C10
.47UF
C11
.47UF
C12
.47UF
C13
.47UF
C14
.47UF
C15
.47UF
C16
.47UF
C17
.47UF
DB-9FR
J2
1 gnd
2 rai
3 dek
4 tao
5 5k
6 xmt
7 no
8 12v
9 gnd
R30
K20
KSEL
SELUF
C20
R19
r.100k
eno
R31
r.47k
TX LEVEL
R27
K20
SELpf
2C3
U4
TL082
TX DE-EMPH
R45
r.1k
C46
10UF
R42
r.SEL
C43
SELpf
E16
tao
Special input
for MSF 5000
oos
5k
R47
r.10k
tai
TX Aud In
xmt
D2
LEDR
R33
r.1k
D1
LEDY
12v
R29
r.1k
R40
r.10k
Q2
PN2222
5kl
Rev D1
Change
C9,
C14
values
U3
4066
E0
Y0
Z0
E1
Y1
Z1
E2
Y2
Z2
E3
Y3
Z3
vb
dek
C39
SELUF
J3
JMP-2
J3 is external dec linev/s
C39 optional coupling
U1
M7716
INPUT
FIL4
SS1
SS2
MUT
CAS
PLSEL
DEC
GND
RUS
A+
C8
100PF
C9
.001UF
C13
470PF
C14
.015UF
C12
3.3UF
R7
r.180k
Optnl
ATTACK TIME
Z1
HANG TS-64
NC
FLIN
OUT1
FLOUT
A/S
OUT2
A+
PL ENC
GND
osp
eno
sel
12v
Schottky or
5.1v Zener
D6
1N751
J1
JMP-3
sen
tru
R11
r.1k
D3
LEDG
R8
r.100
D4
1N4739A
D5
1N4004
Q1
PN2222
E13
oos
SELpf
R15
r.SEL
R10
r.47k
R16
r.1k
C18
10UF
E34
rao
U2
TL082
MII DMP
R35
r.100
C30
.01UF
R13
r.10k
R14
r.10k
Rev C: Optional osp dec
PTT is sig from controller, XMT to TX
Rev C-1 Zener or Schottky for ptt LED
Controller Interface
For MOT MSF5K/MTR2K
And general use
Intertie, Inc.
1222 N.Main Ave. #1016
San Antonio, Tx. 78212
Dwn 5K2K03
Eng W5EX
Ck 11/18/05
Edif 11/17/05
Dwg 1074
Rev D1 PCB=8
Date10/12/07