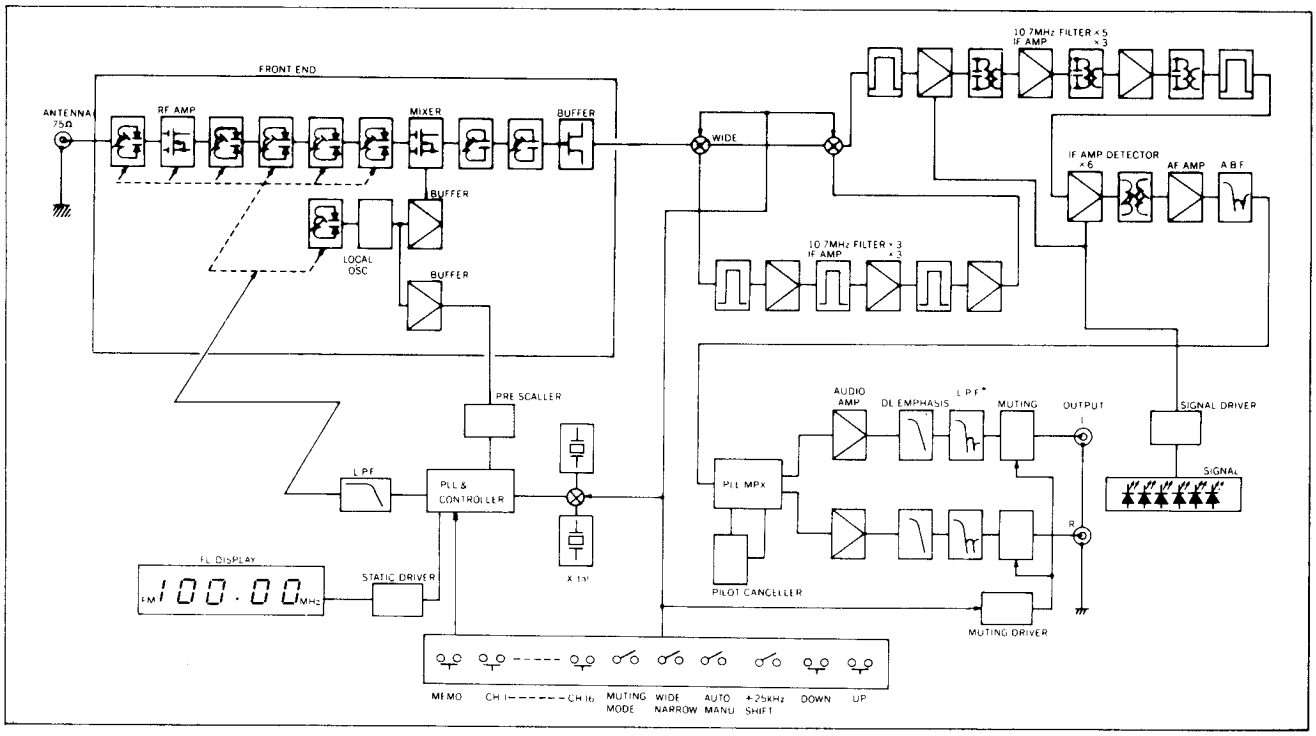
BLOCK DIAGRAM



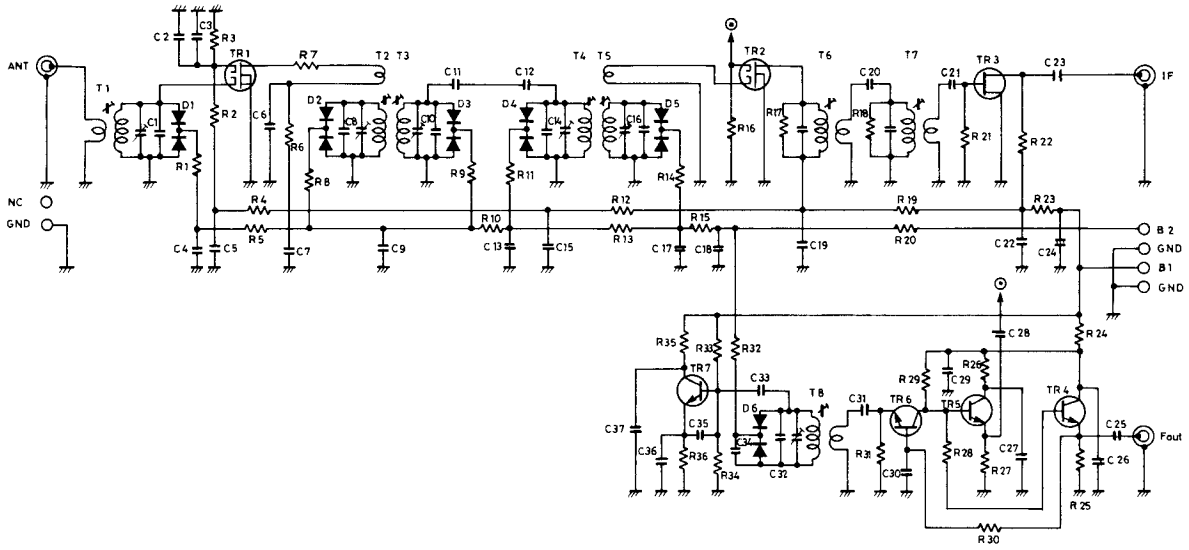
SPECIFICATIONS

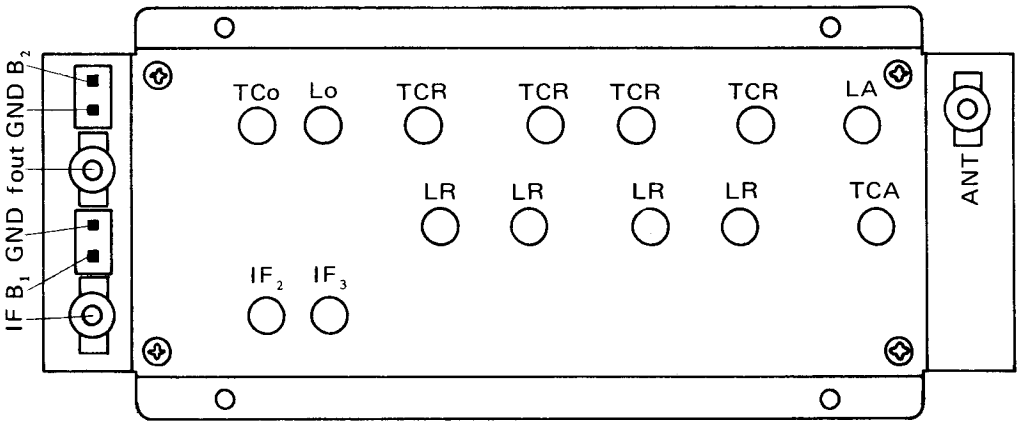
- **Tuning range** . . . . . 87.5 – 108MHz
- **IHF usable sensitivity** 13.2dBf
  Output: THD 3%
  98MHz
- **50dB quieting (mono)** . . . . . less than 22.1dBf
- **Signal to noise ratio** . . . . . more than 75dB
  Input : 65dBf 98MHz
- **Audio frequency response** (De-emphasis 50μs)
  Input : 65dBf 98MHz
  1000Hz . . . . . 40–15000Hz (+0.5, –1.5dB)
- **THD** . . . . . Wide 0.1%
  Input : 65dBf 98MHz Narrow 0.6%
- **Capture ratio** (Wide) 1.5dB
  Input : 65dBf 98MHz
- **IHF alternate selectivity** . . Wide 35dB
  Input : 45dBf 98MHz Narrow 90dB
  ±400kHz
- **Spurious response** . . . . . more than 110dB
  Input : 65dBf 98MHz
  Frequency 10MHz–200MHz (except generator harmonics)
- **IF rejection** . . . . . more than 110dB
  at 90MHz
- **Image rejection** . . . . . more than 110dB
  at 106MHz
- **AM suppression**
  Fm : 1000Hz 75kHz dev.
  Am : 400Hz 30% modulation
  Input : 65dBf 98MHz . . . . . more than 50dB
- **FM muting sensitivity** 34dBf
  Input : 98MHz
  Output: 20dB attenuation
- **Output voltage** 220mV
  Input : 65dBf 98MHz 22.5kHz dev.
- **50dB quieting (stereo)** . . . . . less than 39.2dBf
- **Stereo distortion** (without 19kHz, 38kHz)
  Input : 65dBf 98MHz Wide . . . . . less than 0.3%
  Narrow . . . . . less than 0.8%
- **Mono-stereo switching sensitivity** . . . . less than 32.2dBf
  Input : 98MHz
- **Separation** (without 19kHz 38kHz)
  Input : 65dBf 98MHz
  1000Hz . . . . . Narrow . . . more than 32dB
  Wide 45dB
  100–10000Hz . . Narrow 25dB
  Wide 36dB
- **Subcarrier product ratio** . . . . . more than 60dB
  Input : 65dBf 98MHz
- **SCA suppression** . . . . . more than 55dB
- **Stereo S/N** . . . . . more than 72dB
- **Output Impedance** 2kohms
- **Maximum power consumption** 15watts
- **AC power supply** 110/220V, 50/60Hz
- **Net weight** 5.2kg
- **Dimensions** . . . . . W = 440 H = 98 D = 333mm

Specifications and design are subject to change without notice.

FRONTEND

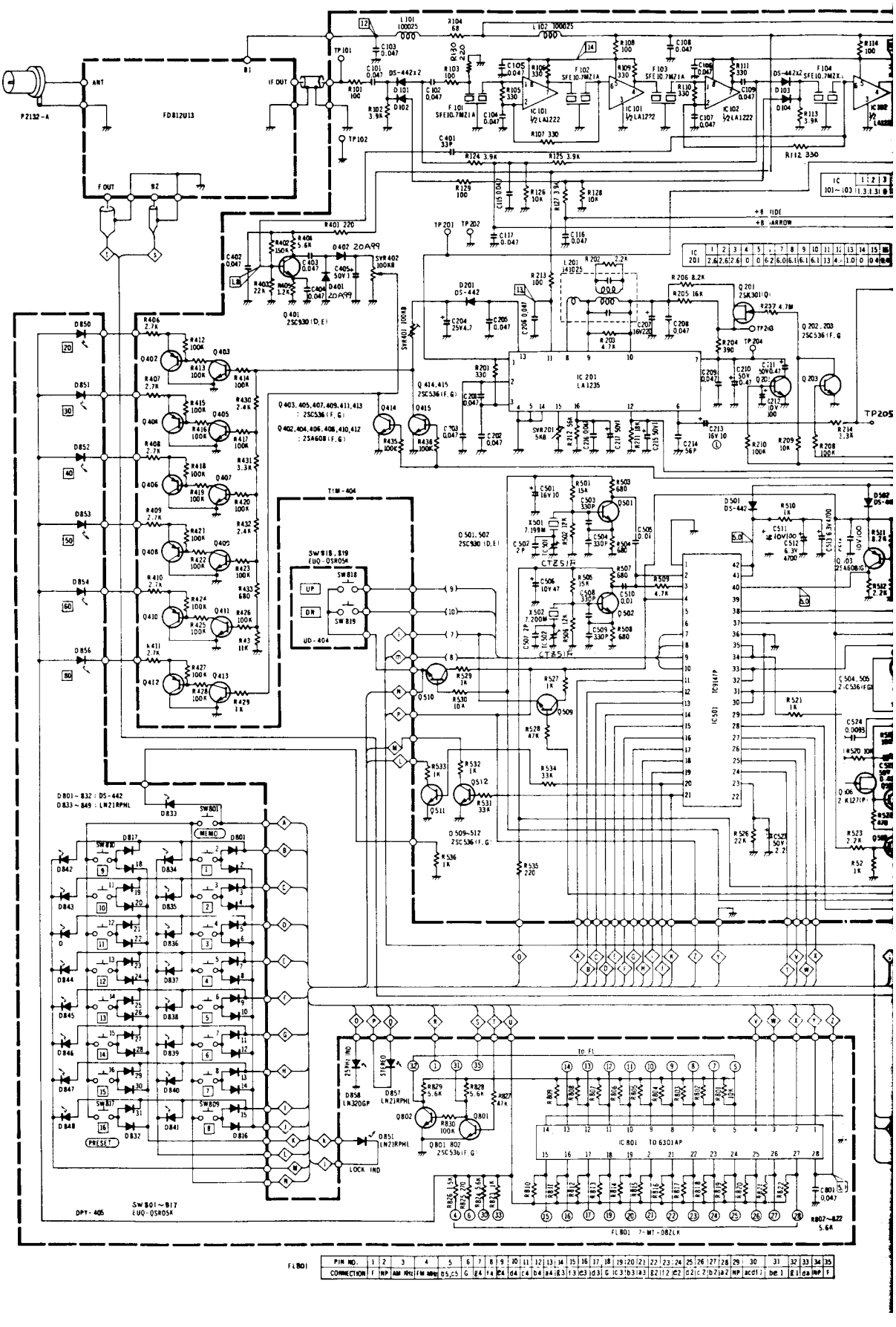
- FD812U13





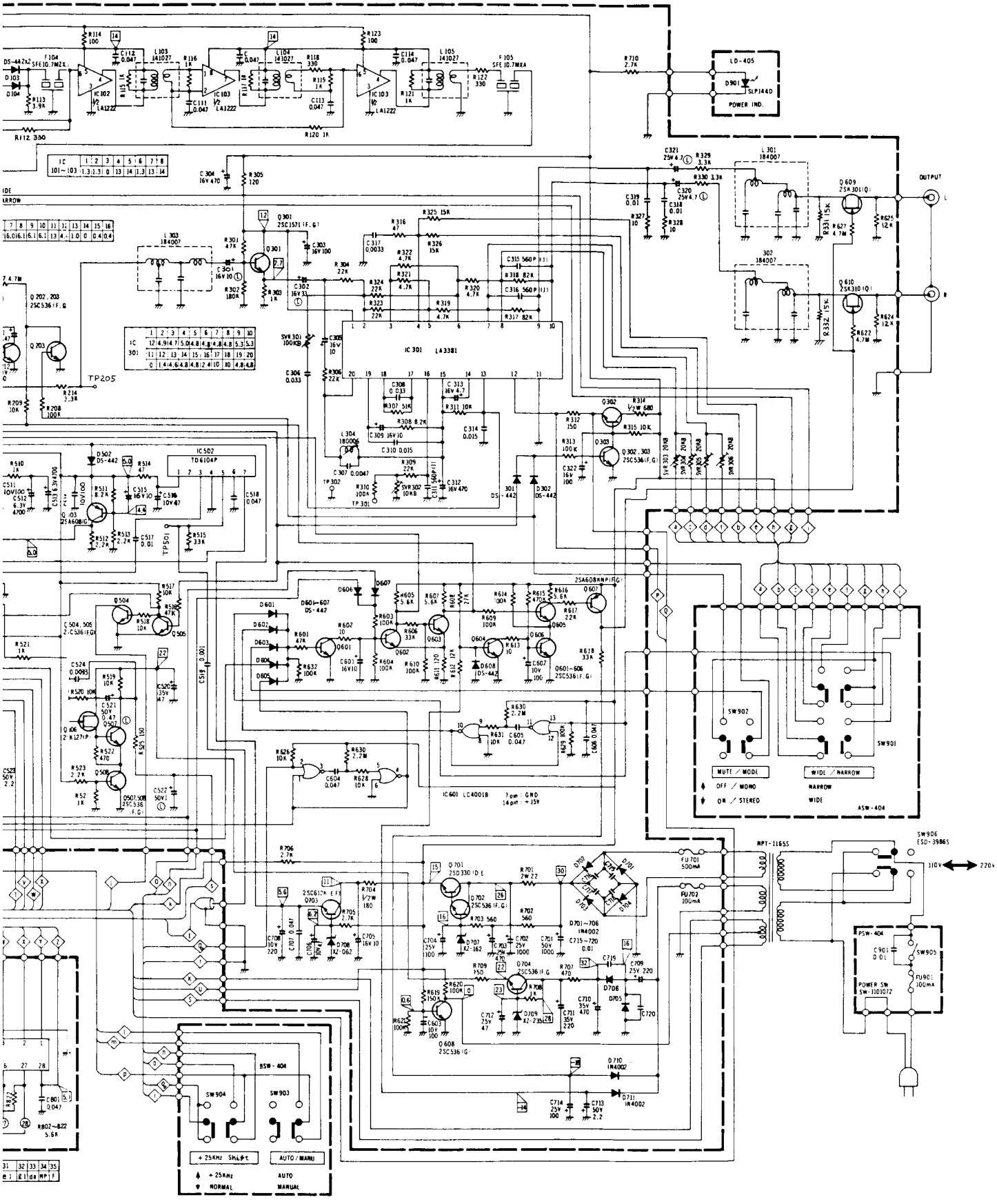
C1	Capacitor	3pF		C32	Capacitor	5pF		R22	Resistor	330Ω
C2	Capacitor	100pF		C33	Capacitor	6pF		R23, R24	Resistor	10Ω
C3	Capacitor	22000pF		C34	Capacitor	22pF		R25	Resistor	1kΩ
C4	Capacitor	1000pF		C35, C36	Capacitor	15pF		R26	Resistor	10Ω
C5, C6, C7	Capacitor	22000pF		C37	Capacitor	22000pF		R27	Resistor	680Ω
C8	Capacitor	6pF		R1, R2	Resistor	100kΩ		R28, R29	Resistor	1kΩ
C9	Capacitor	1000pF		R3	Resistor	33kΩ		R30	Resistor	10kΩ
C10	Capacitor	6pF		R4	Resistor	10Ω		R31	Resistor	560Ω
C11, C12	Capacitor	2pF		R5	Resistor	2Ω		R32	Resistor	10kΩ
C13	Capacitor	1000pF		R6	Resistor	10Ω		R33	Resistor	8.2kΩ
C14	Capacitor	6pF		R7	Resistor	47Ω		R34	Resistor	10kΩ
C15	Capacitor	22000pF		R8, R9	Resistor	100kΩ		R35	Resistor	10Ω
C16	Capacitor	8pF		R10	Resistor	2Ω		R36	Resistor	2.2kΩ
C17, C18	Capacitor	1000pF		R11	Resistor	100kΩ		TR1, TR2	Transistor	3SK74
C19	Capacitor	22000pF		R12	Resistor	10Ω		TR3	Transistor	2SK61
C20	Capacitor	8pF		R13	Resistor	2Ω		TR4, TR5, TR6	Transistor	2SC1215
C21, C22, C23	Capacitor	22000pF		R14	Resistor	100kΩ		TR7	Transistor	2SC930
C24	Capacitor	3.3μF		R15	Resistor	2Ω		D1 ~ D6	Diode	1SV55
C25	Capacitor	22000pF		R16	Resistor	560Ω		T1	Ant. Trnas.	
C26, C27	Capacitor	1000pF		R17	Resistor	10kΩ		T2 ~ T5	RF Trans.	
C28	Capacitor	47pF		R18	Resistor	6.8kΩ		T6, T7	IF Trans.	
C29	Capacitor	1000pF		R19	Resistor	10Ω		T8	OSC Trans.	
C30	Capacitor	22000pF		R20	Resistor	2Ω		TC1 ~ TC6	Trimmer	
C31	Capacitor	47pF		R21	Resistor	100kΩ				

SCHEMATIC DIAGRAM

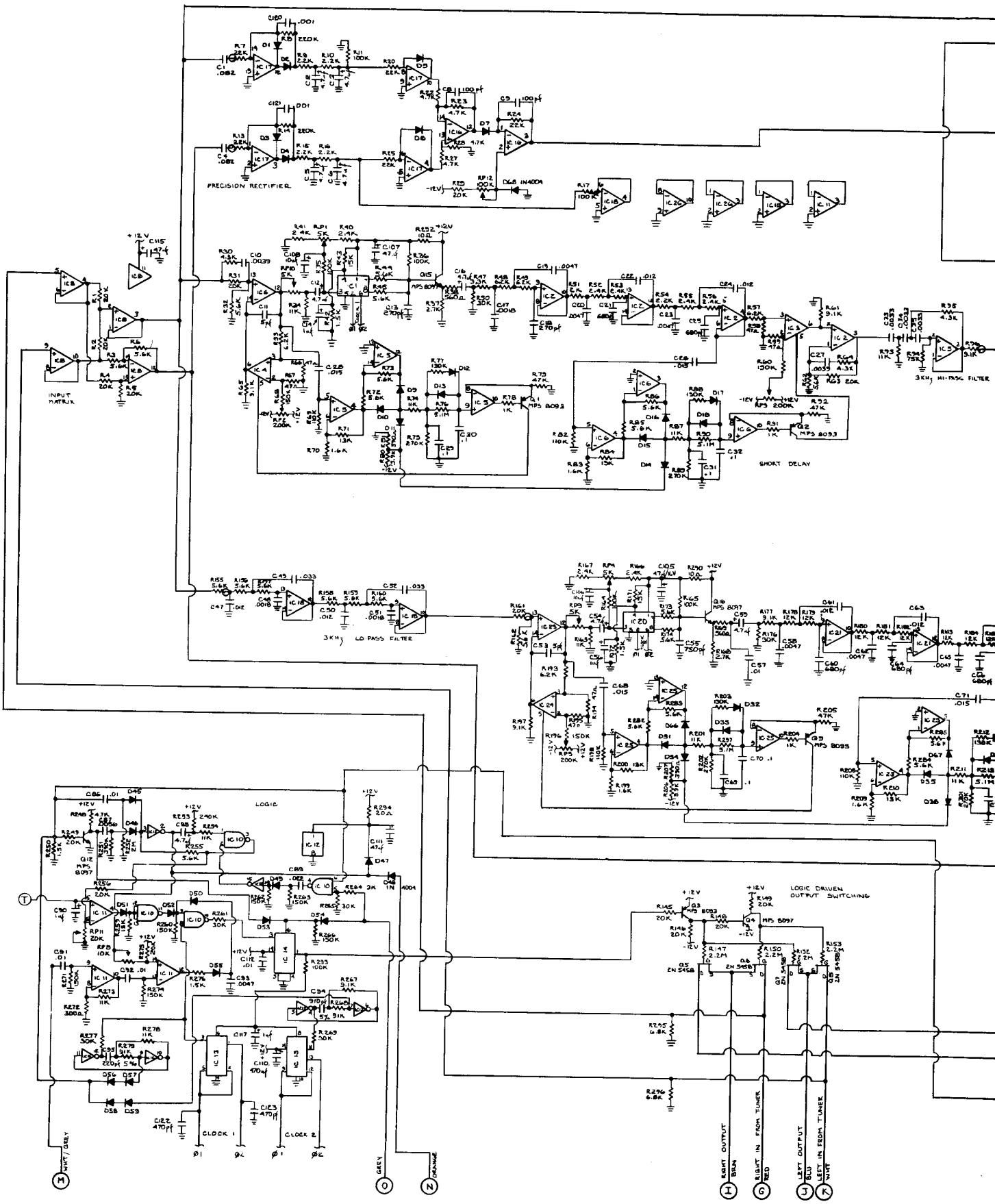


PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
CONNECTION	F	NP	AM	KHz	FM	MHz	DS	CS	G	g4	f4	e4	d4	c4	b4	a4	E3	f3	e3	d3	G	IC	3	b3	a3	B2	f2	e2	d2	c2	b2	a2	NP	ac	d1	be	1	E1	da	NP	F

FL801

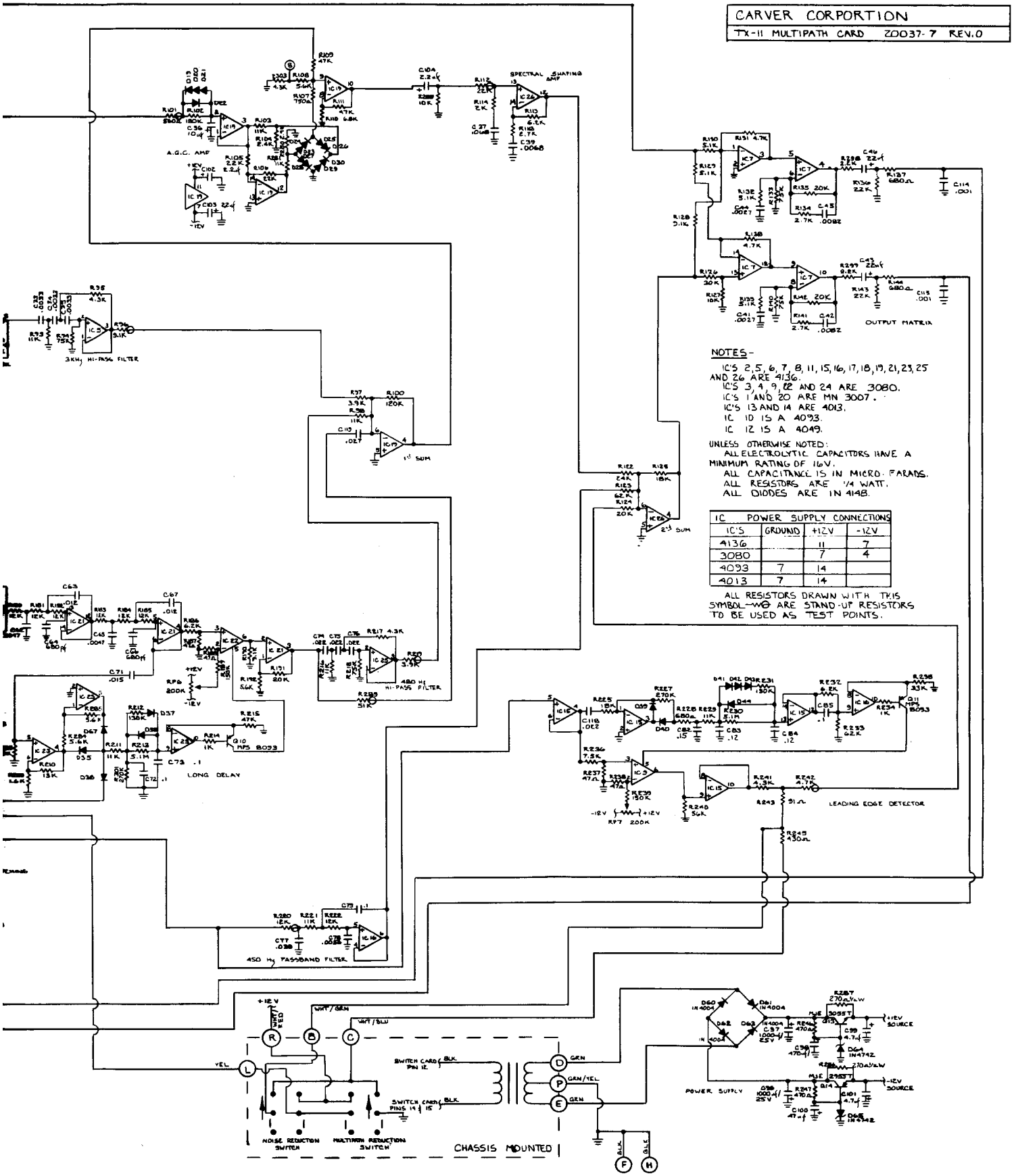

IC 101~103
IC 301 LA3381
IC 501 TD6104P
IC 601 LC4001B
TP205
TP501
TP302
TP301
LD-405
D901 SLP144D
POWER IND.
OUTPUT
L
R
Q 609 2SK301(Q)
Q 610 2SK301(Q)
Q 202, 203 2SC536(F,G)
Q 203
Q 301 2SC1571(F,G)
Q 302 2SC536(F,G)
Q 303 2SC536(F,G)
Q 502 2SA608(K,L)
Q 503 2SA608(G)
Q 504, 505 2SC536(F,G)
Q 506 2SK127(P)
Q 507 2SC536(F,G)
Q 508 2SC536(F,G)
Q 601~606 2SC536(F,G)
Q 607 2SA608(K,L)
Q 608 2SC536(F,G)
Q 701 2SD330(D,E)
Q 702 2SC536(F,G)
Q 703 2SC612A(E,F)
Q 704 2SC536(F,G)
D 103
D 104
D 502 DS-442
D 601~607 DS-442
D 608 DS-442
D 701~706 1N4002
D 707 XZ-162
D 708 XZ-062
D 709 XZ-235
D 710 1N4002
D 711 1N4002
D 301 DS-442
D 302 DS-442
SW 901
SW 902
SW 903
SW 904
SW 905
SW 906 ESD-39865
MUTE / MODE
OFF / MONO
ON / STEREO
WIDE / NARROW
NARROW
WIDE
ASW-404
+25KHz Shift
+25KHz
NORMAL
AUTO / MANU
AUTO
MANUAL
BSW-404
PSW-404
POWER SW SW-1103072
NPT-11655
110V
220V
FU701 500mA
FU702 100mA
FU901 100mA
C901 0.01
SVR301 100KB
SVR302 10KB
SVR303 20KB
SVR304 20KB
SVR305 20KB
SVR306 20KB

MULTIPATH CARD



CARVER CORPORTION

TX-11 MULTIPATH CARD Z0037-7 REV.0



NOTES-

IC'S 2, 5, 6, 7, 8, 11, 15, 16, 17, 18, 19, 21, 23, 25 AND 26 ARE 4136.
IC'S 3, 4, 9, 22 AND 24 ARE 3080.
IC'S 1 AND 20 ARE MN 3007.
IC'S 13 AND 14 ARE 4013.
IC 10 IS A 4093.
IC 12 IS A 4049.

UNLESS OTHERWISE NOTED:
ALL ELECTROLYTIC CAPACITORS HAVE A MINIMUM RATING OF 16V.
ALL CAPACITANCE IS IN MICRO-FARADS.
ALL RESISTORS ARE 1/4 WATT.
ALL DIODES ARE IN 4148.

IC POWER SUPPLY CONNECTIONS			
IC'S	GROUND	+12V	-12V
4136		11	7
3080		7	4
4093	7	14	
4013	7	14	

ALL RESISTORS DRAWN WITH THIS SYMBOL —⊖— ARE STAND-UP RESISTORS TO BE USED AS TEST POINTS.