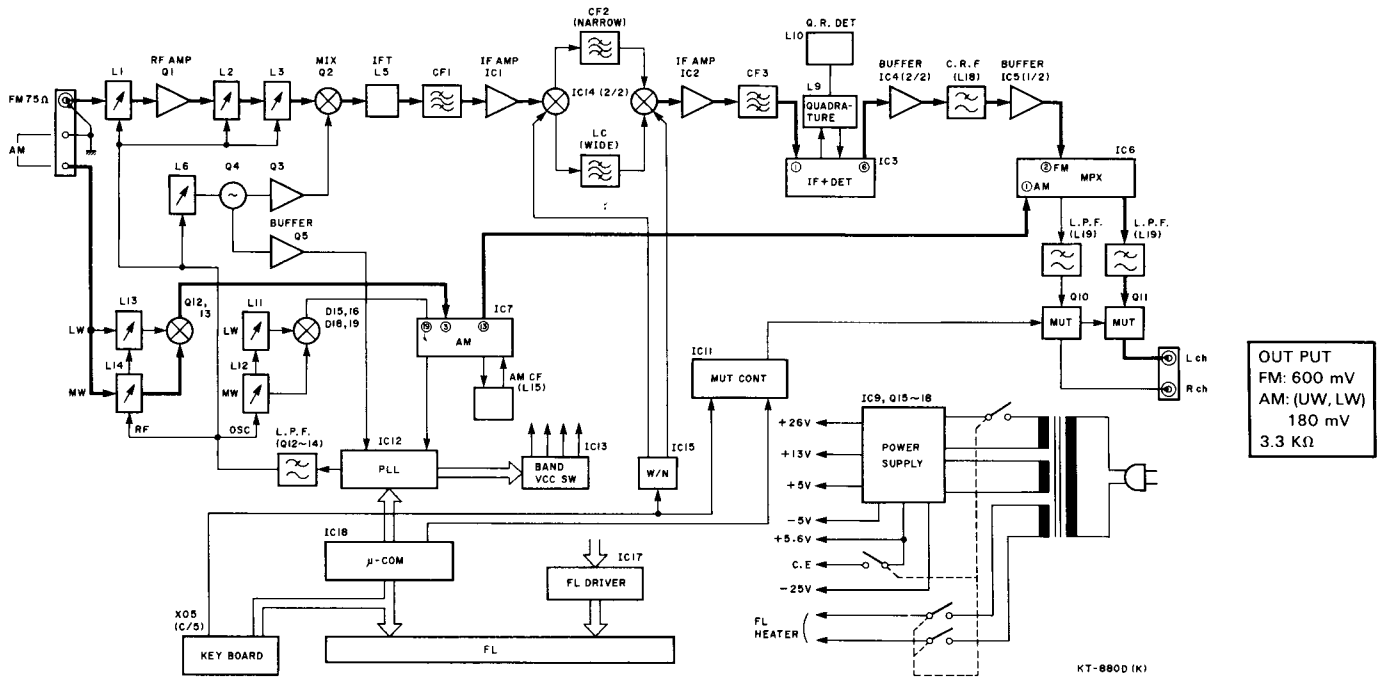


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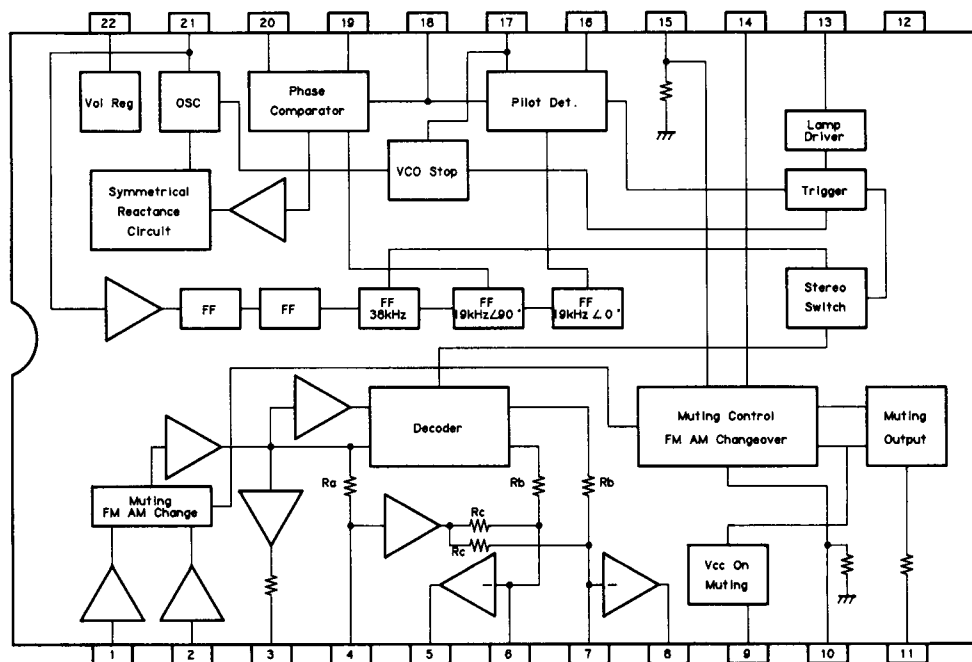
BLOCK DIAGRAM



CIRCUIT DESCRIPTION

IC6: LA3401
FM MPX

Block diagram



Terminal description

Pin no.	Voltage	Pin name	Remarks
1	3.3	AM input	Input resistance: 20kohms
2	3.3	FM input	Input resistance: 20kohms
3	3.3	Composite amp output	Output resistance: 1kohm
4	3.3	Separation adjustment	
5	3.3	Post amp output	L output
6	3.3	Post amp input	Negative (-) input
7	3.3	Post amp input	Negative (-) input
8	3.3	Post amp output	R output
9	3.3	Vcc ON muting	
10	—	AM/FM select	Input resistance: 80kohms
11	—	(Muting output) Not used	
12	0	GND	
13	—	Stereo indicator	Open collector
14	0 or 4.9	Select mute	Grounded by the cap acitor having 0.01 μ F or more capacitance
15	—	(Muting) Not used	Input resistance: 80 kohms
16	2.7	Pilot syncdetect filter	
17	2.7	Pilot sync detect filter, VCO STOP	
18	2.7	PLL input	
19	2.7	Loop filter	
20	2.7	Loop filter	
21	—	OSC	
22	VCC	Power supply	

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
F M SECTION Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM TUNING MODE: AUTO IF BAND: WIDE							
1	BAND EDGE (1)	—	Connect a DC voltmeter between TP5 and TP6(GND).	87.5MHz	L6	3.0±0.1V	(a)
2	BAND EDGE (2)	—	Connect a DC voltmeter between TP5 and TP6(GND).	108.0MHz	TC1	23.0±0.1V	(a)
Repeat alignments 1 and 2 several times.							
3	DISCRIMINATOR (1)	(A) 98.0MHz 0 dev 100dBμ(Ant input)	Connect a DC voltmeter between TP9 and TP10.	98.0MHz	L9	0±10mV	(b)
4	DISCRIMINATOR (2)	(A) 98.0MHz 1kHz, ±75kHz dev 100dBμ(Ant input)	(B)	98.0MHz	L10	Minimum distortion.	
Repeat alignments 3 and 4 several times.							
5	RF ALIGNMENT	(A) 98.0MHz 1kHz, ±75kHz dev	(B)	98.0MHz	L1,2,3	Maximum amplitude and symmetry of the oscilloscope display.	
6	STOP LEVEL	(A) 98.0MHz 1kHz, 0 dev 8dBμ(Ant input)	—	98.0MHz	VR1	To the position so that the lowest level of the S meter lights.	
7	SEPARATION (1) R to L	(C) 98.0MHz R, 1kHz, ±68.25kHz dev Pilot: ±6.75kHz dev 80dBμ(Ant input)	(B)	98.0MHz	VR3	Minimum crosstalk.	
8	SEPARATION (2) L to R	(C) 98.0MHz L, 1kHz, ±68.25kHz dev Pilot: ±6.75kHz dev 80dBμ(Ant input)	(B)	98.0MHz	VR3	Minimum crosstalk.	
Repeat steps 7 and 8 so that the channel separation from right to left channel and vice versa is the same.							
AM-MW SECTION Keep the AM loop antenna installed. SELECTOR: AM(KT-880D) or MW(KT-880DL) TUNING MODE: AUTO							
(1)	BAND EDGE (1)	—	Connect a DC voltmeter between TP5 and TP6(GND).	530kHz (531kHz)	L12	1.5±0.1V	(a)
(2)	BAND EDGE (2)	—	Connect a DC voltmeter between TP5 and TP6(GND).	1610kHz (1602kHz)	TC3	8.0±0.1V	(a)
Repeat alignments (1) and (2) several times.							
(3)	RF ALIGNMENT (1)	(D) 630kHz 1kHz, 30% mod	(B)	630kHz	L14	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1440kHz 1kHz, 30% mod	(B)	1440kHz	TC5	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (3) and (4) several times.							
AM-LW SECTION (KT-880DL only) Keep the AM loop antenna installed. SELECTOR: LW TUNING MODE: AUTO							
(5)	BAND EDGE (1)	—	Connect a DC voltmeter between TP5 and TP6(GND).	153kHz	L11	1.5±0.1V	(a)
(6)	BAND EDGE (2)	—	Connect a DC voltmeter between TP5 and TP6(GND).	281kHz	TC2	8.0±0.1V	(a)
Repeat alignments (5) and (6) several times.							
(7)	RF ALIGNMENT (1)	(D) 162kHz 1kHz, 30% mod	(B)	162kHz	L13	Maximum amplitude and symmetry of the oscilloscope display.	
(8)	RF ALIGNMENT (2)	(D) 270kHz 1kHz, 30% mod	(B)	270kHz	TC4	Maximum amplitude and symmetry of the oscilloscope display.	
Repeat alignments (7) and (8) several times.							

SPECIFICATIONS

[FM tuner section]

Antenna impedance	75 ohms unbalanced
FM frequency range	87.5 MHz to 108 MHz
Usable sensitivity	10.8 dBf (0.95 μ V)
50 dB quieting sensitivity	
Mono	16.2 dBf (1.8 μ V)
Stereo	38.8 dBf (24.0 μ V)
Signal to noise ratio	
Mono	88 dB at 65 dBf, 88 dB at 85 dBf
Stereo	76 dB at 65 dBf, 82 dB at 85 dBf
Total harmonic distortion	
Mono: 1 kHz	0.04%
50 Hz ~ 10 kHz	0.1%
Stereo: 1 kHz	0.06%
50 Hz ~ 10 kHz	0.12%
Capture ratio	
WIDE	1 dB
NARROW	2.5 dB
Alternate channel selectivity	
WIDE	60 dB
NARROW	90 dB
Stereo separation	
1 kHz	55 dB
50 Hz ~ 10 kHz	40 dB
Frequency response	20 Hz to 15 kHz ± 0.5 dB

Spurious rejection ratio	105 dB
Image rejection ratio	82 dB
IF rejection ratio	110 dB
AM suppression ratio	76 dB
Subcarrier suppression ratio	70 dB
Output level/impedance at 1 kHz, 100% dev.	
Fixed	0.6 V/3.3 kohms

[AM tuner section]

Frequency range	530 kHz ~ 1610 kHz (10 kHz Step) or 531 kHz ~ 1602 kHz (9 kHz Step)
Usable sensitivity	10 μ V (350 μ V/m)
Signal to noise ratio	52 dB
Total harmonic distortion	0.3%
Image rejection	40 dB
Selectivity	25 dB
Output level/impedance	0.18 V, 3.3 kohms (400 Hz, 30% Mod.)

[General]

Power consumption	13 W
Dimensions	W: 440 mm (17-5/16") H: 78 mm (3-1/16") D: 317 mm (12-1/4")
Weight (Net)	3.5 kg (7.7 lb)

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.