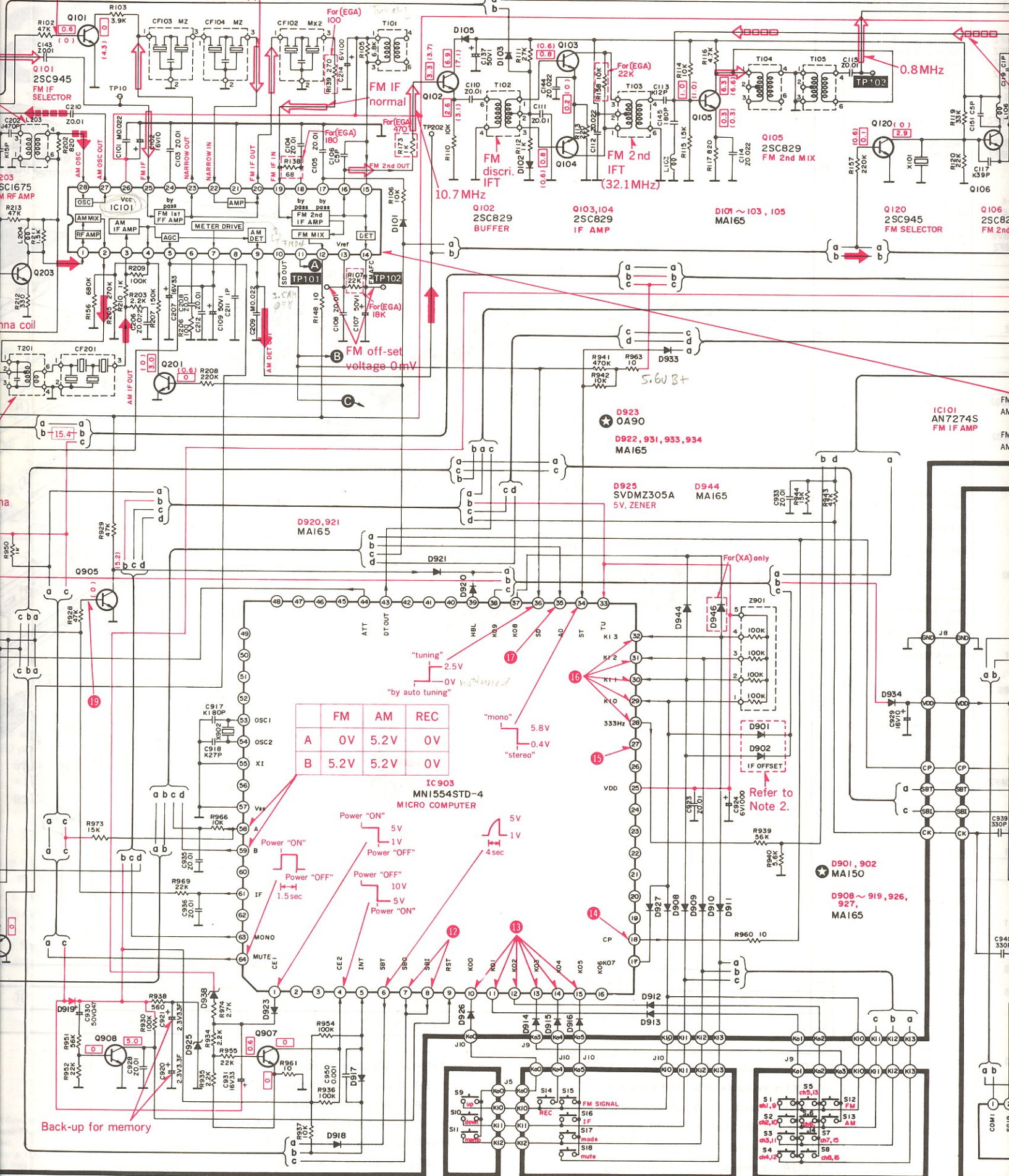


upper narrow 0V, normal 0.6V

FM IF supper narrow



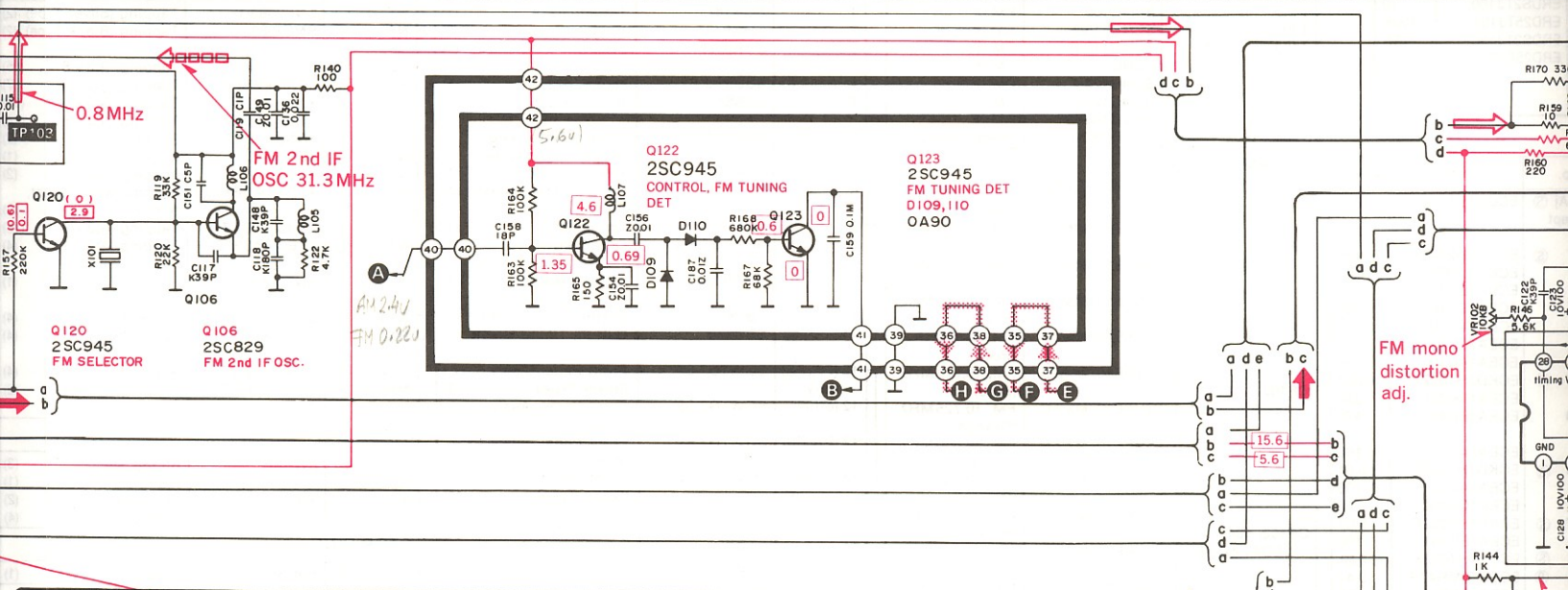
	FM	AM	REC
A	0V	5.2V	0V
B	5.2V	5.2V	0V

IC 903 MNI554STD-4 MICRO COMPUTER

Power "ON" 5V
 Power "OFF" 1V
 Power "ON" 5V
 Power "OFF" 10V
 Power "ON" 5V

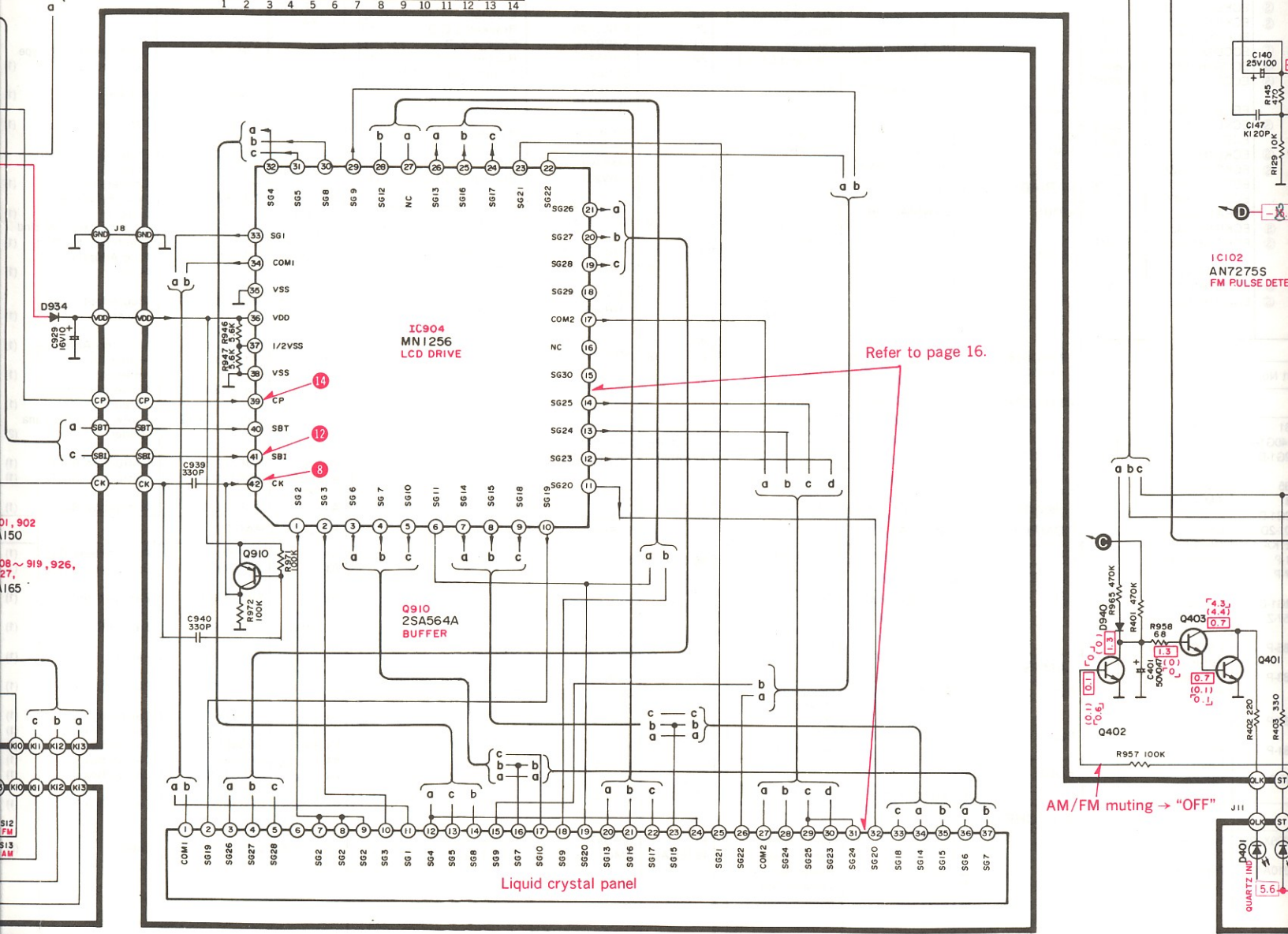
Power "OFF" 1.5 sec
 Power "OFF" 4 sec

Back-up for memory



	28	27	26	25	24	23	22	21	20	19	18	17	16	15
FM	4.9	0	4.9	2.9	2.9	2.6	2.9	0	2.8	3.3	3.6	3.3	3.3	4.9
AM	5.3	1.5	5.3	4.3	4.2	4.2	4.2	0	4.2	3.7	3.7	3.9	3.8	0.1
FM	4.9	4.9	2.9	2.9	0	2.5	0.1	3.2	3.1	0	2.0	4.9	2.5	2.7
AM	5.3	5.3	3.0	3.1	0.2	1.8	0.1	3.2	2.6	0	2.4	5.3	2.5	2.5
	1	2	3	4	5	6	7	8	9	10	11	12	13	14

IC101
AN7274S
FM IF AMP

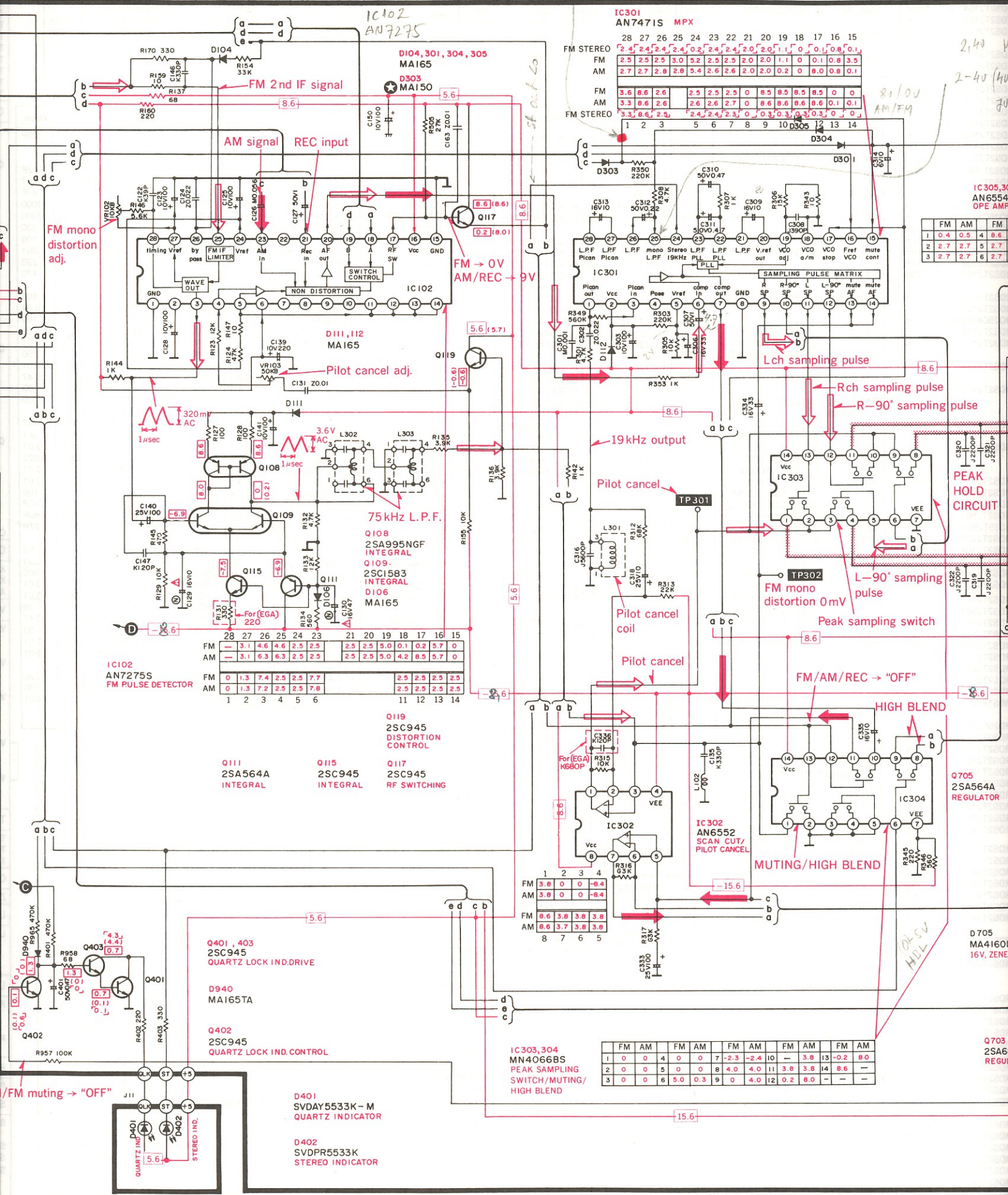


Liquid crystal panel

AM/FM muting → "OFF"

IC102
AN7275S
FM PULSE DETE

Kopplar till med +5V



IC102 AN7275S FM PULSE DETECTOR

FM	28	27	26	25	24	23	21	20	19	18	17	16	15
FM	3.1	4.6	4.6	6.3	2.5	2.5	2.5	5.0	0.1	0.2	5.7	0	
AM	3.1	6.3	6.3	2.5	2.5	2.5	2.5	5.0	4.2	8.5	3.7	0	
FM	0	1.3	7.4	2.5	2.5	7.7			2.5	2.5	2.5	2.5	
AM	0	1.3	7.2	2.5	2.5	7.8			2.5	2.5	2.5	2.5	
	1	2	3	4	5	6			11	12	13	14	

IC301 AN7471S MPX

28	27	26	25	24	23	22	21	20	19	18	17	16	15	
FM STEREO	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.0	2.0	1.1	0	0.1	0.8	0.1
FM	2.5	2.5	2.5	3.0	3.2	2.5	2.5	2.0	2.0	1.1	0	0.1	0.8	3.5
AM	2.7	2.7	2.8	2.8	3.4	2.6	2.6	2.0	2.0	0.2	0	8.0	0.8	0.1
FM STEREO	3.6	8.6	2.6											
FM	3.3	8.6	2.6											
AM	3.3	8.6	2.6											
FM STEREO	2.4	2.4	2.3	0	0	0	0	0	0	0	0	0	0	0
FM	2.4	2.4	2.3	0	0	0	0	0	0	0	0	0	0	0
AM	2.4	2.4	2.3	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	5	6	7	8	9	10	D305	12	13	14	

IC302 AN6552 SCAN CUT/PILOT CANCEL

1	2	3	4	
FM	3.8	0	0	-8.4
AM	3.8	0	0	-8.4
FM	8.6	3.8	3.8	3.8
AM	8.6	3.7	3.8	3.8
	8	7	6	5

IC303, 304 MN4066BS PEAK SAMPLING SWITCH/MUTING/HIGH BLEND

FM	AM	FM	AM	FM	AM	FM	AM	FM	AM					
1	0	0	4	0	0	7	-2.3	-2.4	10	-	3.8	13	-0.2	8.0
2	0	0	5	0	0	8	4.0	4.0	11	3.8	3.8	14	8.6	-
3	0	0	6	5.0	0.3	9	0	4.0	12	0.2	8.0	-	-	-

IC305, 306 AN6554 OPE AMP

1	FM	AM	FM	
1	0.4	0.5	4	8.6
2	2.7	2.7	5	2.7
3	2.7	2.7	6	2.7

PEAK HOLD CIRCUIT

1	2	3	4	5	6	7
1	2	3	4	5	6	7

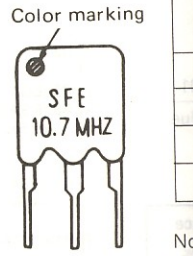
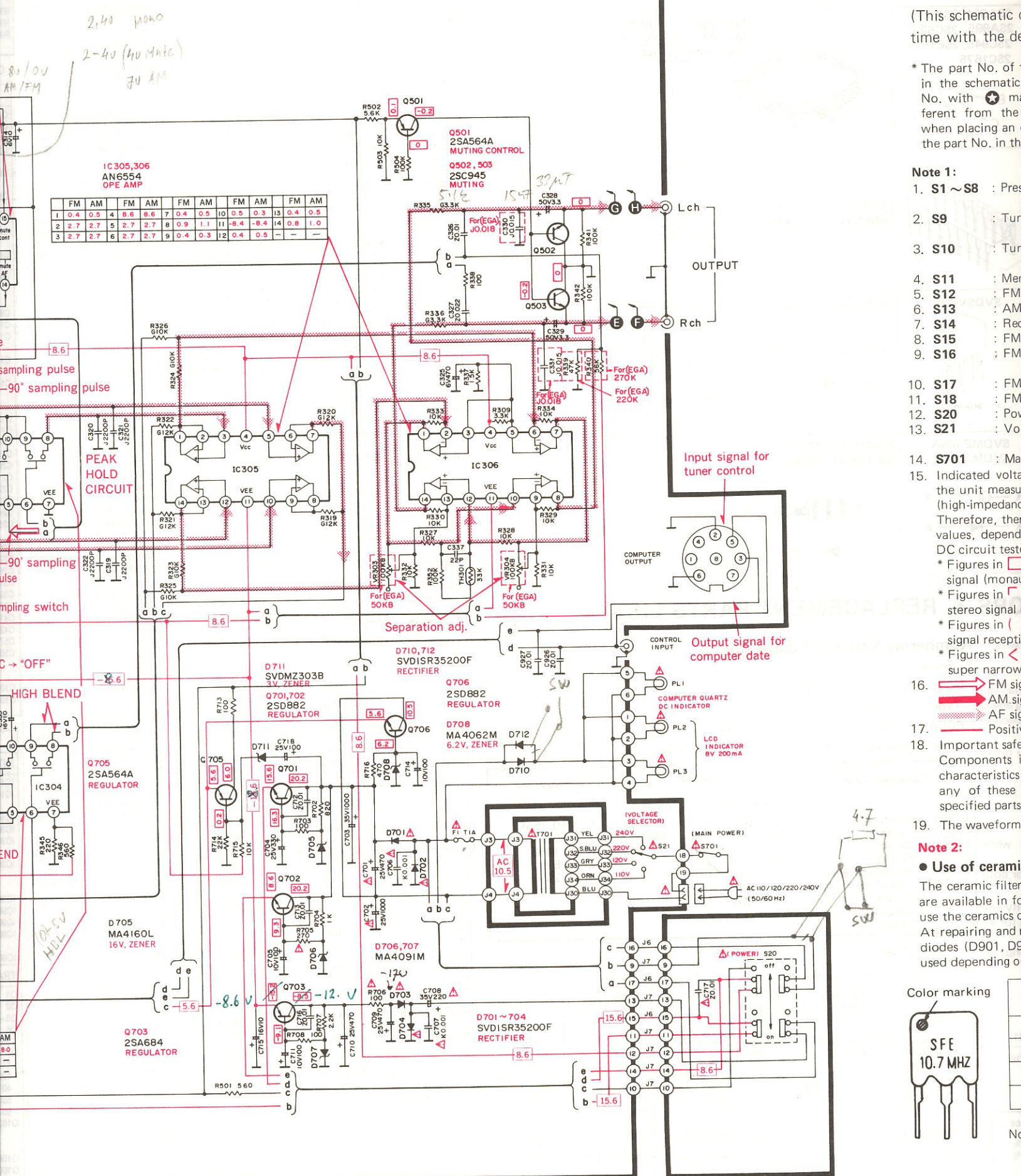
SCHEMA

(This schematic c...
time with the de...

* The part No. of t...
in the schematic
No. with * ma
ferent from the
when placing an
the part No. in the

Note 1:

- 1. S1 ~ S8 : Pres
- 2. S9 : Tun
- 3. S10 : Tun
- 4. S11 : Men
- 5. S12 : FM
- 6. S13 : AM
- 7. S14 : Rec
- 8. S15 : FM
- 9. S16 : FM
- 10. S17 : FM
- 11. S18 : FM
- 12. S20 : Pow
- 13. S21 : Vol
- 14. S701 : Mai
- 15. Indicated volta...
the unit measur...
(high-impedanc...
Therefore, ther...
values, depend...
DC circuit test...
* Figures in □...
signal (monaural...
* Figures in ▭...
stereo signal r...
* Figures in ()...
signal recepti...
* Figures in < >...
super narrow
- 16. → FM sig...
→ AM sig...
⇄ AF sig...
→ Positiv...
- 17. Important safet...
Components i...
characteristic...
any of these...
specified parts.
- 19. The waveforms



SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

* The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. with \star mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement part please use the part No. in the replacement part list.

Note 1:

1. **S1 ~ S8** : Preset tuning switch.
FM 1 ch ~ 8 ch, AM 9 ch ~ 16 ch.
2. **S9** : Tuning (up) switch. (manual \leftrightarrow auto)
[up: tuning to higher frequency]
3. **S10** : Tuning (down) switch. (manual \leftrightarrow auto)
[down: tuning to lower frequency]
4. **S11** : Memory switch. (manual \leftrightarrow auto)
5. **S12** : FM selector switch.
6. **S13** : AM selector switch.
7. **S14** : Recording level check switch.
8. **S15** : FM signal strength level call switch.
9. **S16** : FM IF band selector switch.
(normal \leftrightarrow super narrow)
10. **S17** : FM mode switch. (auto \leftrightarrow mono)
11. **S18** : FM muting switch. (off \leftrightarrow scan level)
12. **S20** : Power switch in "on" position.
13. **S21** : Voltage selector switch in "220V" position.
110V \leftrightarrow 120V \leftrightarrow 220V \leftrightarrow 240V
14. **S701** : Main power switch in "on" position.

Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

* Figures in \square stand for DC voltage in FM signal (monaural) reception mode.

* Figures in \lrcorner stand for DC voltage in FM stereo signal reception mode.

* Figures in () stand for DC voltage in AM signal reception mode.

* Figures in $\langle \rangle$ stand for DC voltage in FM-IF super narrow condition mode.

16. \rightarrow FM signal \square FM OSC
 \rightarrow AM signal \lrcorner AM OSC
 \rightarrow AF signal lines
17. \rightarrow Positive voltage lines and negative voltage lines.
18. Important safety notice:
Components identified by \triangle mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
19. The waveforms ① ~ ⑱: Refer to page 17.

Note 2:

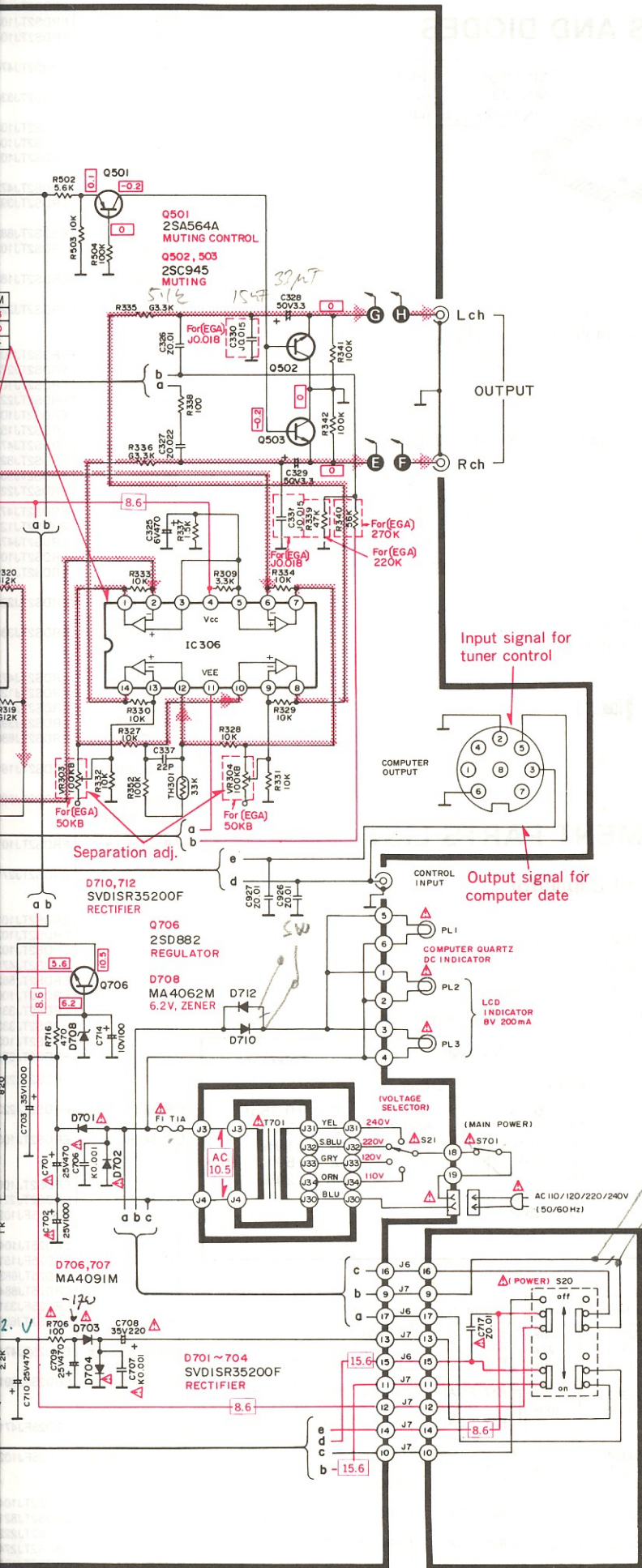
Use of ceramic filters in pairs

The ceramic filters (CF101 ~ CF104) for FM-IF circuit are available in four ranks. For this machine, be sure to use the ceramics of the same rank in a pair.

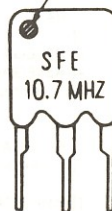
At repairing and replacement, pay close attention to the diodes (D901, D902) for use as different diodes must be used depending on each rank of the ceramic filters.

RANK (Color)	D901	D902	CENTER FREQUENCY
Black	×	○	10.65 MHz
Red	×	×	10.70 MHz
Blue	○	×	10.67 MHz
Orange	○	○	10.73 MHz

Note: ○ Mark Diode is used.
× Mark Diode is not used.



Color marking



■ BLOCK DIAGRAM

