



Service Manual

**CIRCUIT DESCRIPTIONS
REPAIR & ADJUSTMENTS**



**ORDER NO.
ARP-027-0**

FM/MW/LW Digital Synthesized Tuner

F-X50L

MODEL F-X50L COMES IN TWO VERSIONS DISTINGUISHED AS FOLLOWS:

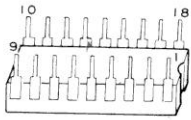
Type	Voltage	Remarks
NE	220V only	European continent model
YB	240V only	United Kingdom Model

- This service manual is applicable to the NE and YB types.
- Ce manuel d'instruction se réfère au mode de réglage, en français.
- Este manual de servicio trata del método de ajuste escrito en español.

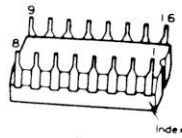
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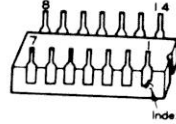
MN6147



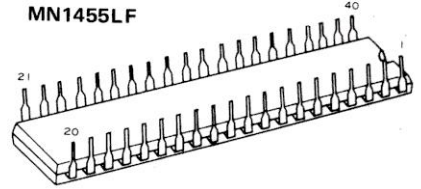
PA3001
HA1138
IR2E01
M74LS42P



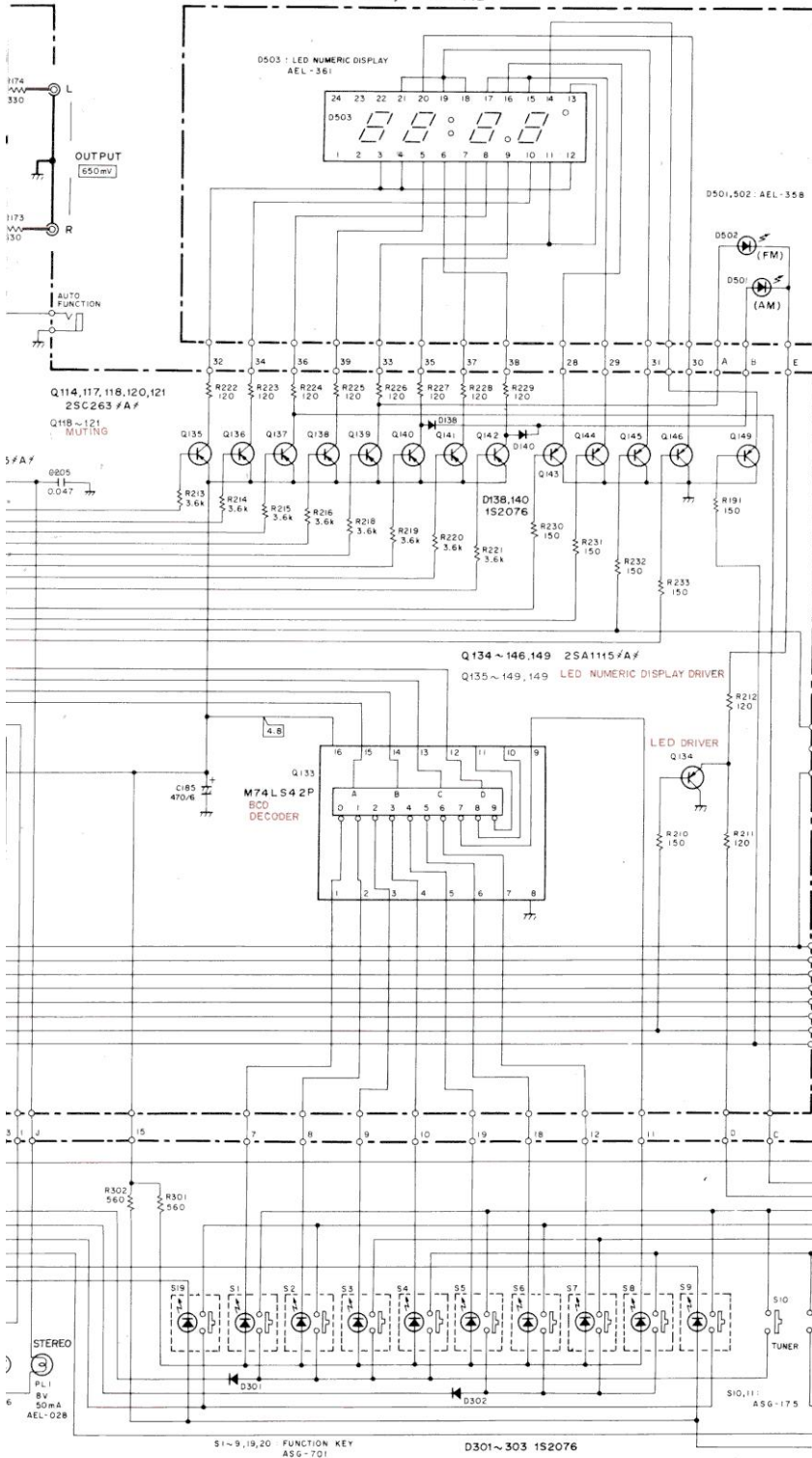
HA1156W



MN1455LF



DISPLAY Ass'y GWX-712



1. RESISTORS

Indicated in Ω , 1/4W, 1/8W, $\pm 5\%$ tolerance unless otherwise noted k : k Ω , M : M Ω , (F) : $\pm 1\%$, (G) : $\pm 2\%$, (K) : $\pm 10\%$, (M) : $\pm 20\%$ tolerance

2. CAPACITORS

Indicated in capacity (uF)/voltage (V) unless otherwise noted p : pF
Indication without voltage is 50V except electrolytic capacitor

3. VOLTAGE

DC voltage (V) at no input signal
Signal voltage at FM 400Hz 75kHz DEV.

4. OTHERS

Adjusting point.
The mark ∇ on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

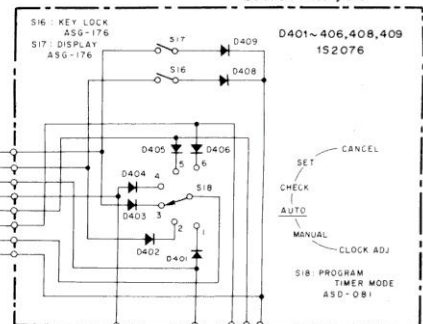
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHES

S1 : FUNCTION KEY (1)	ON - OFF
S2 : FUNCTION KEY (2)	ON - OFF
S3 : FUNCTION KEY (3)	ON - OFF
S4 : FUNCTION KEY (4)	ON - OFF
S5 : FUNCTION KEY (5)	ON - OFF
S6 : FUNCTION KEY (6)	ON - OFF
S7 : FUNCTION KEY (7)	ON - OFF
S8 : FUNCTION KEY (8)	ON - OFF
S9 : FUNCTION KEY (9/FM)	ON - OFF
S10 : TUNER ON	
S11 : STAND-BY	
S12 : TUNING (DOWN)	ON - OFF
S13 : TUNING (UP)	ON - OFF
S14 : MEMORY	ON - OFF
S15 : SLEEP	ON - OFF
S16 : KEY LOCK	ON - OFF
S17 : DISPLAY	FM/AM - CLOCK
S18 : PROGRAM TIMER MODE	
CLOCK ADJ - MANUAL - AUTO - CHECK - SET - CANCEL	
S19 : FUNCTION KEY (0/MW)	ON - OFF
S20 : FUNCTION KEY (LW)	ON - OFF
S21 : POWER	ON - OFF

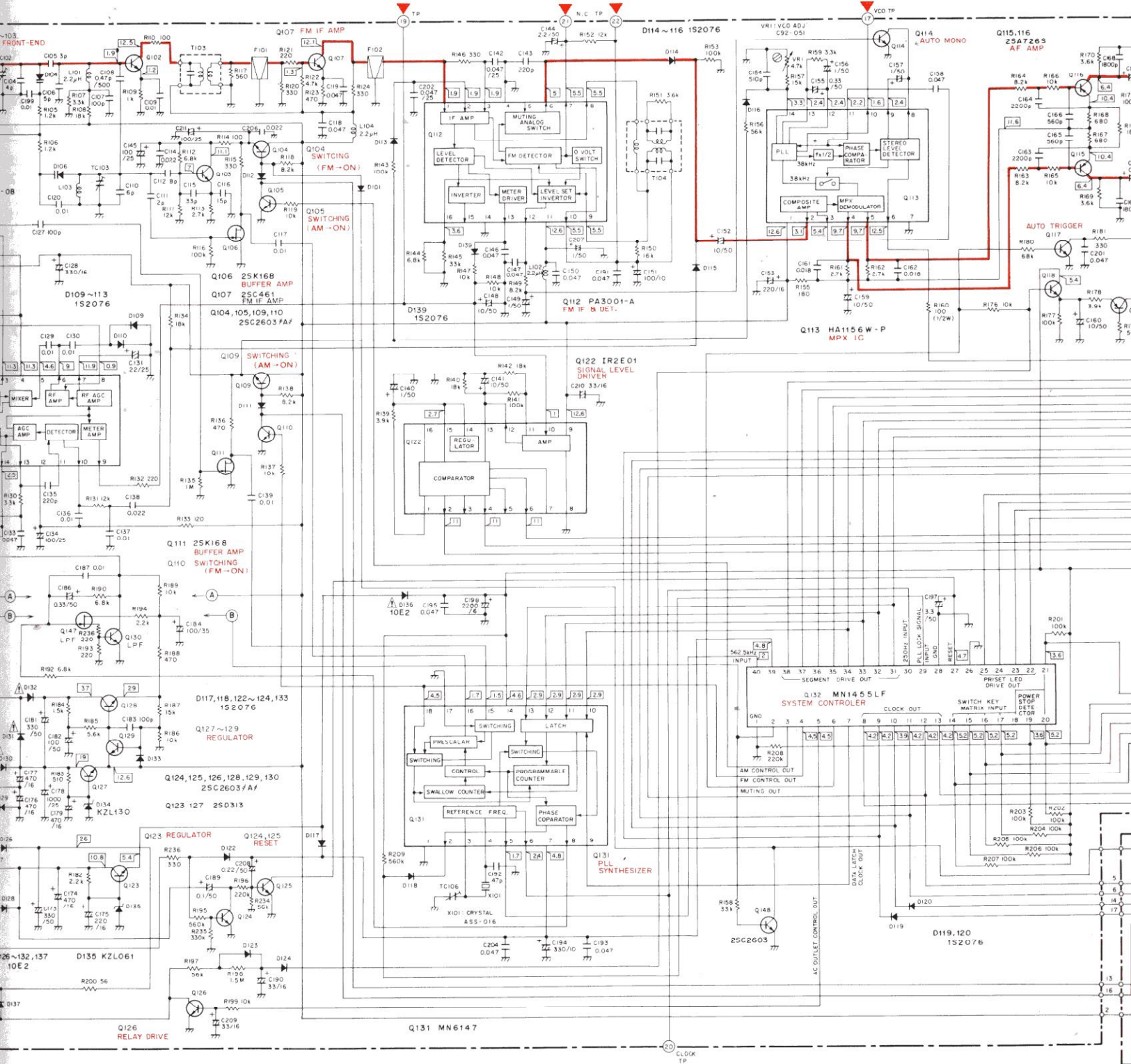
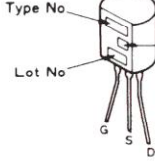
The underlined indicates the switch position.

SWITCH Ass'y (2)



SWITCH Ass'y (1) GWS-359

2SK168



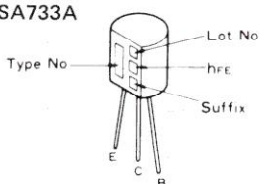
8. SCHEMATIC DIAGRAM

NOTE:

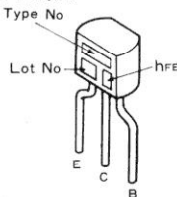
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.

External Appearance of Transistors and ICs

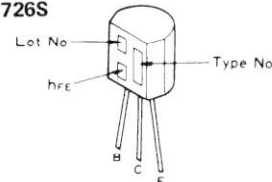
2SA733A



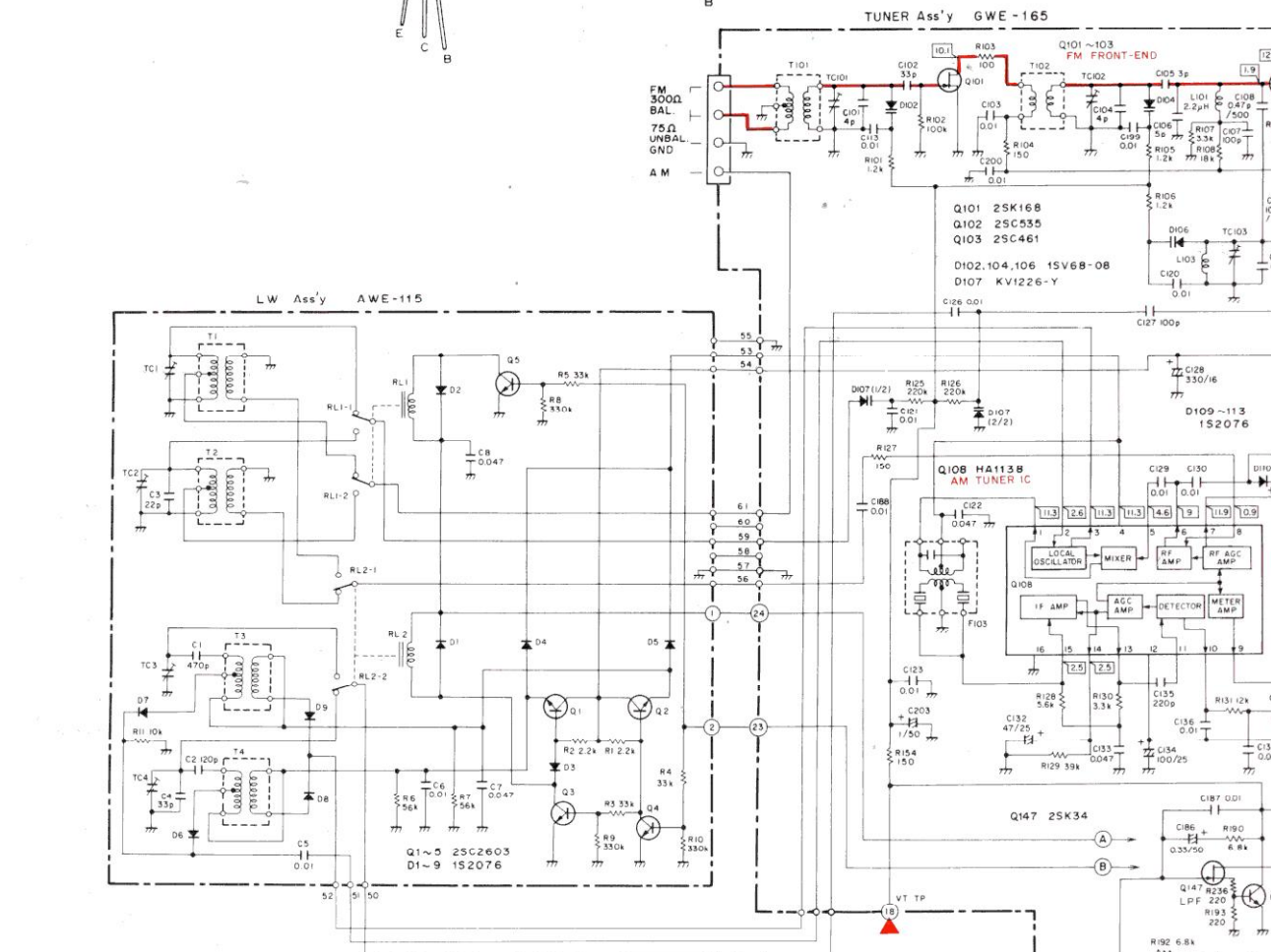
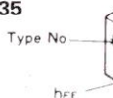
2SC2603/A/
2SA1115/A/



2SA726S



2SC461
2SC535



POWER SUPPLY CIRCUIT FOR YB TYPE

