

SONY

ICF-5500

MODEL

Batteries: 6 V (4×1.5 V).

Wavebands: L.W. 150–280 kHz; M.W. 520–1,620 kHz; 49m 5.95–6.2 MHz; 41m 7.1–7.3 MHz; S.W. 6–18 MHz; F.M. 88–106 MHz.

Loudspeaker: 4 Ω impedance.

Dismantling: Pull out 5 knobs (L.W./M.W./S.W., 49m/41m, F.M. tuning knobs, volume control knob, and tone control knob) on the front cabinet and remove 2 retaining screws on the back cabinet. Remove 3 leadwires (speaker, pilot lamp) and 8 screws retaining the chassis. Take out the chassis from cabinet.

D.C. Bias Voltage Adjustment (R203): Set the volume control (R201) to minimum and the A.C./D.C. selector switch (SW201) to 'AC', position. Connect a D.C. V.T.V.M. between TP305 and TP306. (Chassis ground.) Set the band selector switch (SW2) to 'F.M.' position and adjust R203 (1 k Ω pot.) for a negative 5.1 V reading.

Circuit Diagram Notes: Band selector switch is in M.W. position. Resistance values are in ohm K=1,000. Capacitance values are in MFD P=MMFD. Voltage readings are measured with V.T.V.M. under no signal and volume control at minimum.

Q1 to Q6, Q101 to Q103 and Q201 are positive to circuit points (—B). Q202 to Q204 are negative to chassis ground.

Voltages marked in brackets are measured in M.W. position.

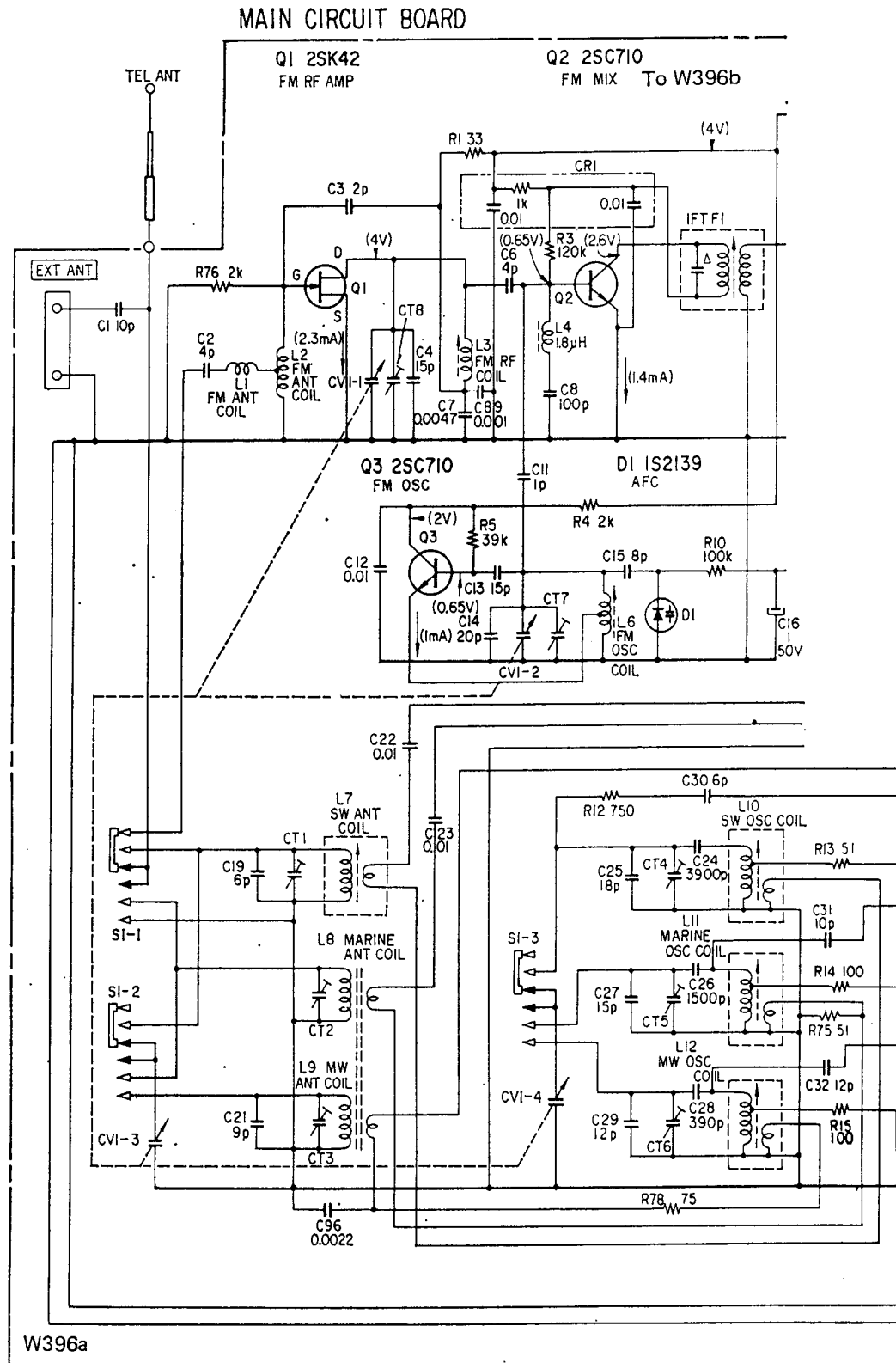
- * C37 may be any value from 47 p to 68 p.
- * C40 may be any value from 68 p to 82 p
- * C47 may be any value from 47 p to 68 p
- * C49 may be any value from 82 p to 100 p.
- * C51 may be any value from 27 p to 39 p.
- * C52 may be any value from 27 p to 47 p.
- * C57 may be any value from 12 p to 18 p.
- * C59 may be any value from 100 p to 150 p.
- * R22 may be any value from 3.3 k to ∞ .
- * R25 may be any value from 0 to 15.

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Model ICF-5500M

General Description: A portable battery-operated radio covering Medium, Short, Marine, and V.H.F. wavebands. A wide range of features are included in this model such as bass and treble controls, tuning and battery meter, power switch timer, ceramic I.F. filters, integrated circuit amplifier and a comprehensive range of input and output sockets.

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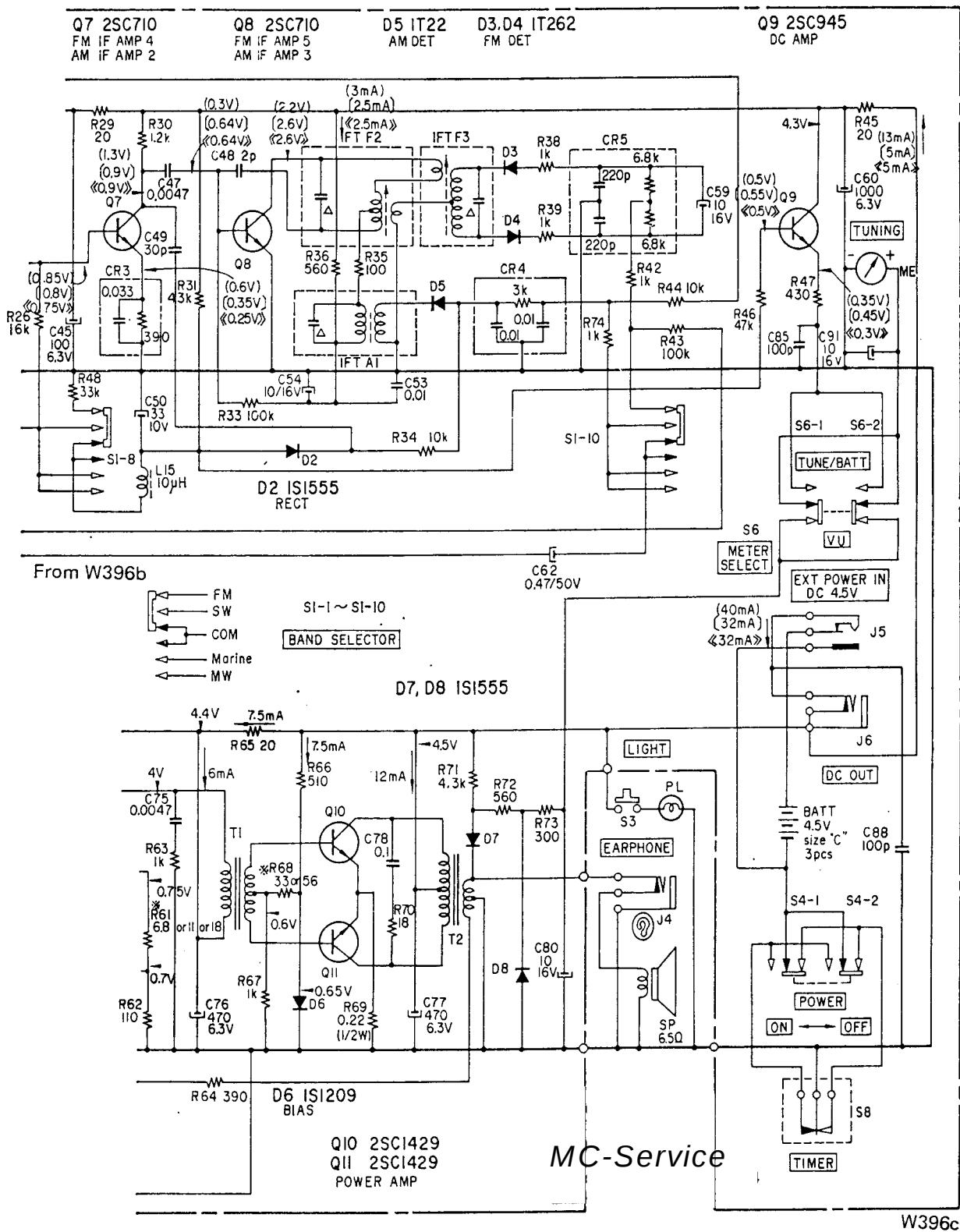


(W396a) CIRCUIT DIAGRAM—MODEL ICF-5500M (Part)

MC-Service

MC-Service

SONY



(W396c) CIRCUIT DIAGRAM—MODEL ICF-5500M (Continued)

Loudspeaker: 6.5 Ω impedance.

Circuit Diagram Notes: Capacitors are built in I.F. transformers and ceramic filter.

R61 and R68 are to be selected to yield specified operating condition. R61 is

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selected to obtain 0.75 V at pin 6 of IC₁, R68 is selected to obtain 0.75 V at pin 6 of IC₁, R68 is selected to obtain 0.6 V at the centre tap of T₁.

All fixed resistors, are in Ω , ± 5 per cent, 0.25 W carbon film type. $k=1,000$.

All fixed capacitors are in μF unless otherwise specified. $p=\mu\mu$.

All voltage and current readings are taken with a 20k Ω /V D.C. VOM with no signal received. Variations may be noted due to normal production tolerances.

(): F.M. []: S.W. $\ll \gg$: M.W. No mark: common.

Switch mode:

Ref. no.	Switch	Mode
S ₁	Band selector	F.M.
S ₂	A.F.C./M.W.	A.F.C. ON
	sens	
S ₃	Timer	OFF
S ₄	Power	OFF
S ₅	Loudness	ON
S ₆	Meter select	VU
S ₇	F.M. selector	ON

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General Description: A ten-transistor battery-operated portable radio covering Long, Medium, and V.H.F. wavebands. A.F.C. operates on F.M. and sockets are provided for the connection of an earphone and external power supplies.

Batteries: 4.5 V (3×1.5 V).

Quiescent Current: 15 mA.

