

RECEIVER ELECTRICAL PARTS LIST

IMRD4500A 159-161.999 MHz

REFERENCE DESIGNATOR	MOTOROLA PART NUMBER	DESCRIPTION
CAPACITORS: Fixed, pF ±5%, 50V unless stated		
C101	2311049A90	47 µF ±20%
C102	2113741F49	0.01µF
C103	2113741F25	0.001µF
C104	2311049A60	10 µF ±20%
C106	-----	Not Placed
C110	2113906B02	Laser, 2-10
C111	2113740L16	8.2 ±0.1
C112	2113740L14	6.8 ±0.1
C113	2113740L03	2.4 ±0.1
C114 - C116	-----	Not Placed
C121	2113740L04	2.7 ±0.1
C123	2113741F25	0.001µF
C124	2113741F49	0.01µF
C125	2113741F25	0.001µF
C126	2113740F33	18
C130	-----	Not Placed
C131	2113740L12	5.6 ±0.1
C132	2113740F37	27
C133, C134	2113740F39	33
C135, C136	2113741F29	0.0015µF
C150	2113740L14	6.8 ±0.1
C151 - C153	2113741F25	0.001µF
C161	2113741F25	0.001µF
C163	2113741F49	0.01µF
C164	2113906B01	Laser, 2-22
C165	2113740F30	13
C166	2113740F35	22
C168	-----	Not Placed
C170	2113741F49	0.01µF
C180	2113740F53	120
C181	2113743K15	0.1µF
C182, C183	2311049A90	47 µF ±20%
C184	2311049A60	10 µF ±20%, 4V
C185	2113740F34	20
C186	2113741F49	0.01µF
DIODES: (See Note 1)		
CR101	-----	Not Placed
CR102	4862001L06	Switching
ANTENNA:		
E101	8504012F04	Metal Loop
COILS, RF:		
L120	2413926D29	330 nH
L121	2413926D28	270 nH 10%
L130	2462586C14	68 nH 5%
L131, L132	2462586C20	220 nH 5%
L150, L151	2462586C12	47 nH
L161	2413926D31	470 nH 10%
CONNECTORS:		
P101	0913915A08	11 Position
TRANSISTORS: (See Note 1)		
Q101	4805218N33	PNP
Q102	4813827A07	NPN
RESISTORS: Fixed, ohm 5%, 1/8W unless stated		
R101, R102	-----	Not Placed
R103	0660076N01	10
R104	0660076P01	100k
R105	-----	Not Placed
R106	0660076N49	1k
R120	0660076N01	10

R121	-----	Not Placed
R122	0660076P01	100k
R140	0660076N89	47k
R150	0660076N88	6.2k
R161	0660076N65	4.7k
R162	0660076N57	2.2k
R165	0660076N95	82k
R166	0660076N49	1k
R170	-----	Not Placed
R171	0660076P09	220
R180	0660076N18	51
CIRCUIT MODULES: (See Note 1)		
U101	5105991B02	ZIF IC, LAA2085, 40-pin
CRYSTALS: (See Note 2)		
Y101	4862823A15	Oscillator
NONREFERENCED ITEMS		
	8409715X01	CIRCUIT BOARD, Receiver

NOTES:

- For optimum performance, order replacement transistors, diodes and circuit modules by Motorola part number only.
- When ordering crystal units, specify carrier frequency, crystal frequency, and Motorola part number.
- Gaps in numbering continuity of reference designators indicate that the missing numbers are not used.

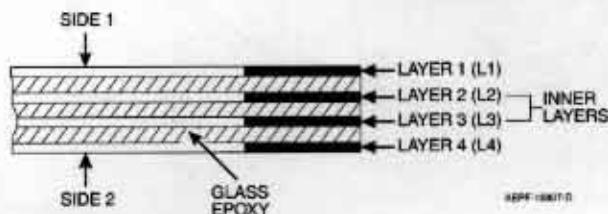
WARNING

Substitution of components may impair intrinsic safety.



This product contains static-sensitive devices. Use anti-static handling procedures to prevent electrostatic discharge.

FOUR-LAYER CIRCUIT BOARD DETAIL VIEWING
COPPER AT EDGE OF BOARD IN PROPER LAYER SEQUENCE



Four-Layer Circuit Board Construction