

DECODER ELECTRICAL PARTS LIST

IMLN4496A, Linguist

IMLN4808A, International

REFERENCE DESIGNATOR	MOTOROLA PART NUMBER	DESCRIPTION
BATT	8062884A01	BATTERY: Backup, Rechargeable Lithium
		CAPACITORS: $\mu F \pm 5\%$, 50V unless stated
C001 - C003	2113743K15	0.1 μF $\pm 80\%$, 20V
C004	2311049A50	47 μF $\pm 10\%$, 4V
C005	-----	Not Placed
C006	2113741F13	330
C007	2113743K15	0.1 μF $\pm 80\%$, 20V
C008	2311049A56	4.7 μF $\pm 20\%$, 10V
C009 - C011	2113743K15	0.1 μF $\pm 80\%$, 20V
C013	2113743E07	0.022 μF
C014	2113743K15	0.1 μF $\pm 80\%$, 20V
C015	2311049A56	4.7 μF $\pm 20\%$, 10V
C016 - C022	2113743K15	0.1 μF $\pm 80\%$, 20V
C023	2113740F32	18
C024	2113740F35	22
C025	2311049A60	10 μF $\pm 20\%$, 4V
C026	2113740F35	22
C027, C028	2113743K15	0.1 μF $\pm 80\%$, 20V
C029	2113741F13	330
C030	2311049A60	10 μF $\pm 20\%$, 4V
C031	-----	Not Placed
C032	2311049A28	100 μF $\pm 10\%$, 6V
C033	2113741F13	330
C034 - C038	2113743K15	0.1 μF $\pm 80\%$, 20V
C037	2311049A60	10 μF $\pm 20\%$, 4V
		DIODES: (See Note 1)
CR001, CR002	4805129M83	Diode
CR003	4862060R02	Flyback Diode Pair
		LAMPS:
DS001, DS002	6562990Z01	Incandescent
		CONNECTOR:
J001	2813516E04	Decoder to Decoder
		COILS: RF, Fixed $\pm 10\%$ unless stated
L001	2470327B25	95 μH
L003	2462575A39	33 μH
L010	-----	Not Placed
		TRANSDUCER:
LS001	5002611Y04	3.2 kHz, Speaker
		TRANSISTORS: (See Note 1)
Q001 - Q003	4805218N33	PNP
Q004	4805128M61	NPN
		RESISTORS: Fixed, ohm 5%, 1/8W unless stated
R001	0660076P25	1M, 1/16W
R003	0660076N40	430
R005	9669976P01	100k, 1/16W
R006, R007	0660076N55	1.8k
R008	0660076N75	12k, 1/16W
R009	0660076N89	6.8k
R010	0660076P01	100k
R011	0660076P13	330
R012	0660076N40	430
R013	0660076N75	12k
R014	0660076P01	100k
R015, R016	0660076R49	10M
R017	0660082A97	100k, 1%, 1/16W
R018	0660076N49	1.0k
R019, R020	0660076P01	100k, 1/16W
R021	0660076N40	430
R022	0660076N05	15
R023	0660076N73	10k, 1/16W
R024	0660076N86	30
R025	0660082B18	680k, 1%, 1/16W

R027	0660076N55	1.8k
R029	0660076P09	220k
R030	0660076N05	15
R031	0660076N91	56k
R032, R033	0660076S01	0
		CIRCUIT MODULES: (See Note 1)
U001	5102196J89	Microprocessor
U002	5102196J87	DC/DC Converter
U003	5170204B02	2.5V Detector
U004	5170204B01	1V Detector
U005	5162852A11	CGROM (See Note 4)
U006	5162849K25	8K RAM
		CRYSTAL: (See Note 2)
Y001	4813908D01	38.4 kHz
		NONREFERENCED ITEMS
	AALN4231A	KIT, LCD Module (See Note 3)
	0105960R01	HOLDER, Battery
	B409722X01	CIRCUIT BOARD, Decoder

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.
- This kit consists of LCD Module 0102720J01 and Light Diffuser 0170300B01. When ordering the LCD or Heat-seal Connector, order Motorola part number 0102720J01.
- This part applicable to IMLN4808 only.
- Gaps in numbering continuity of reference designators indicate that the missing numbers are not used.

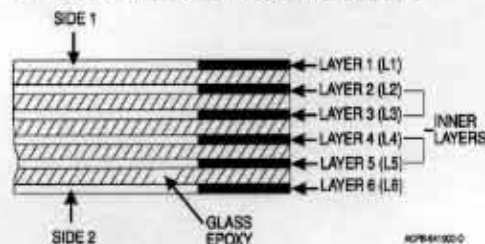


This product contains static-sensitive devices. Use anti-static handling procedures to prevent electrostatic discharge.

WARNING

Substitution of components may impair intrinsic safety.

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



Six-Layer Circuit Board Construction