

GEMINI ROBOT KITS

RAM/ROM Board Assembly Instructions

Parts List

DESCRIPTION	QTY	PART #
<u>Resistors</u>		
150K ohm (BRN-GRN-YEL-GOLD)	3	CCF25150K
<u>Capacitors</u>		
.1 microfarad (104)	8	SR205E104M-AA
<u>Sockets</u>		
28 pin sockets	7	ICN-286-55-T
16 pin socket	1	ICN-163-58-T
<u>ICs</u>		
27C64	4	HN27C64G-20
74HC138	1	74HC138
RAM/ROM Board	1	Rom Bd.

Assembling the RAM/ROM Board

1. Insert and solder all sockets into their proper location. Take note as to where pin 1 is located.

- () U1 - 28 pin socket
- () U2 - 28 pin socket
- () U3 - 28 pin socket
- () U4 - 28 pin socket
- () U5 - 28 pin socket
- () U6 - 28 pin socket
- () U7 - 28 pin socket
- () U8 - 16 pin socket

2. Insert and solder all resistors into their proper location.

- () R1 - 150K (BRN-GRN-YEL-GOLD)
- () R2 - 150K (BRN-GRN-YEL-GOLD)
- () R3 - 150K (BRN-GRN-YEL-GOLD)

3. Insert and solder all capacitors into their proper location.

- () C1 - .1 microfarad (104)
- () C2 - .1 microfarad (104)
- () C3 - .1 microfarad (104)
- () C4 - .1 microfarad (104)
- () C5 - .1 microfarad (104)
- () C6 - .1 microfarad (104)
- () C7 - .1 microfarad (104)
- () C8 - .1 microfarad (104)

4. At this point we recommend that you clean the board using either alcohol and a scrub brush or you can purchase Flux Remover at your nearest electronics supply store.

5. Insert the ICs into their proper sockets. Be careful and make sure all the legs on the ICs go into the holes on the socket properly and do not bend underneath the chip. We recommend that you ground yourself when doing this.

- () U1 - 27C64 (LMOS)
- () U2 - 27C64 (Scheduler)
- () U3 - 27C64 (Basic)
- () U4 - 27C64 (Basic/Nav)
- () U5 - 27C64 (Vocal)
- () U6 - 27C64 (Catalog)

The board is now complete.

