

GEMINI ROBOT KITS**GEMINI Kit Instructions****I. ASSEMBLY INSTRUCTIONS**

You will assemble your GEMINI Kit in three phases as follows:

<u>PHASE</u>	<u>TASK</u>
1	Construction of Subassemblies
2	Testing of Subassemblies
3	Final Assembly and Checkout

Each phase of construction is broken down into several subtasks. These subtasks are ordered so you will start with easy tasks and then progress to more difficult tasks.

Before you commence with Phase I, read the pamphlet entitled "General Assembly Instructions". This pamphlet contains important general instructions for assembling GEMINI Robot Kits and you should refer to these instructions often as you proceed with construction.

PHASE I

The order in which to construct the subassemblies is listed below. After you complete the construction of a subassembly, check this item off the list and again review the general instructions. Read each subassembly instruction in its entirety before you commence construction. After construction, all PC Boards should be stored in a safe, static free place until ready for testing.

<u>CONSTRUCTION ORDER</u>	<u>SUBASSEMBLY</u>
1	Charger
2	ROM/RAM Card
3	IR Beacon Receiver Board
4	Room Beacons
5	Keyboard and IR Receiver Boards
6	Power Distribution Board
7	Propulsion Computer
8	Voice Input/Output and Sound Computer
9	Sonar, Stepper and Signal Conditioner
10	Main Computer
11	Head Structure
12	Head Cable Assembly
13	Torso Structure
14	Torso Cable Assembly - Part A
15	Torso Cable Assembly - Part B
16	Base Drive Assembly

PHASE 2

You are now ready to commence with the testing of all subassemblies. Refer to the pamphlet entitled, "Testing and Calibration Procedures" and perform the tests and calibrations in the following order:

<u>TESTING ORDER</u>	<u>INSTRUCTION</u>
1	Testing Charger
2	Testing and Calibration of Power Distribution Board
3	Testing and Calibration of Room Beacons
4	Adjusting the Keyboard IR Frequency
5	Testing the CPU (Main Computer) Board
6	Testing VIOS (Voice Input/Output and Sound Computer) Board
7	Testing PROCON (Propulsion Computer) Board

If you encounter any problems during these tests that you cannot solve, do not proceed to Phase 3. Contact the factory for assistance.

PHASE 3

You are now ready to perform the final assembly and system checks. Before you do this read chapters 3 and 14 of the USER'S MANUAL. Refer again to the pamphlet entitled, "Testing and Calibration Procedures" and perform the "GEMINI Board Mounting and Final Test" instructions.

2. OPERATING INSTRUCTIONS

You are now ready to enjoy your robot. You should start at the beginning of the USER'S MANUAL and read it from cover to cover while learning how the robot operates.