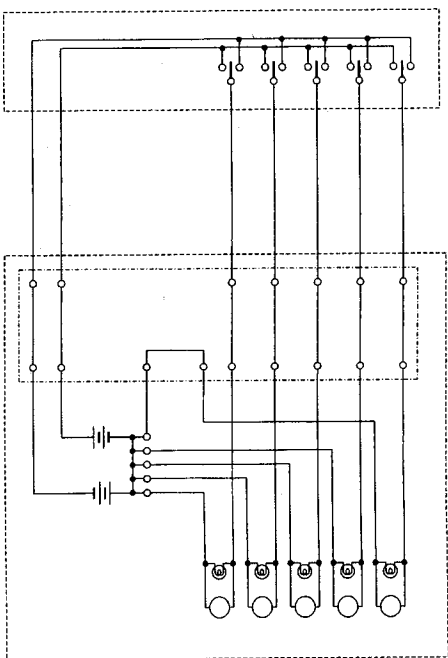
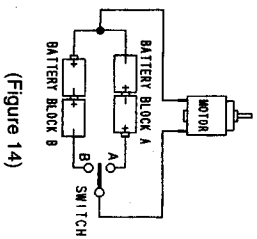


(Figure 13)

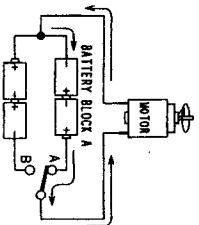


In the direct-current motor, the rotational direction can be changed by reversing the polarity (+ and -) on the battery (connected to the terminals). As shown in Figure 14, this robot employs a method in which two-system batteries, which are oriented in an opposite direction, are used to connect the motor to either one of the batteries by using a switch. Figure 15 shows a positive of setting the switch to the A side. This makes the motor connected to the A-block. When the switch

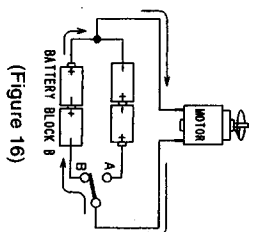
is turned to the B side, the motor is connected to the B-block as in Figure 16. The current comes out of the plus side of the battery and returns to the minus side, as seen in Figure 15 and Figure 16 that the direction of the current flowing in the motor is reverse. The robot is equipped with 5 motors, and accordingly 5 pairs of switches are installed.



(Figure 14)



(Figure 15)



(Figure 16)

## IV. Part Number and Description

When ordering parts, please include the following:  
 1. Name, address (No P.O. Box) and phone number  
 2. Model name and model number (ROBOTIC ARM TRAINER, OWI-007)  
 3. Part number, description, and quantity. Make check or money order payable to OWI Inc., and mail with parts order. Please add \$4.00 for shipping and handling.  
 California and New York residents, please add state tax.

Part No.	Description	Price/each	Part No.	Description	Price/each	Part No.	Description	Price/each
007001M	Power Unit P-1	\$ 10.00	007021M	Stopper	\$ 0.50	007041M	Battery Terminal	\$ 1.20
007002M	Power Unit P-2	10.00	007022M	Spacer (Large)	0.50	007042M	Battery Terminal	0.80
007003M	Power Unit P-3	10.00	007023M	Spacer (Small)	0.35		Plate No.2	
007004M	Power Unit P-4	10.00	007024M	Finger	0.80	007043M	Battery Terminal	0.60
007005M	Power Unit P-5	10.00	007025M	Control Lever	0.50		Plate No.3	
007006M	Mediation Gear	0.80	007026M	Wheel Cover A	3.00	007044M	Terminal Connector Unit	2.00
007007M	Cutch Gear B	1.20	007027M	Wheel Cover B	3.00	007045M	Control PC Board	8.00
007008M	Cutch Disk (Metal)	0.80	007028M	Fore Arm A	3.00	007046M	Decomation Slider	1.20
007009M	Rotor Stopper	1.40	007029M	Fore Arm B	3.00	007047M	Decomation Slider	1.20
007010M	Cutch Stopper	0.80	007030M	Upper Arm A	5.00	007048M	M3 X 127 tapping Screw	0.05
007011M	Cutch Stopper	0.80	007031M	Upper Arm B	5.00	007049M	Clutch Pacific nail	0.50
007012M	Finger Base A	0.80	007032M	Main Gear	5.00	007050M	Metal Spring Parts	0.50
007013M	Finger Base B	0.80	007033M	Arm Base	12.00	007051M	Battery Wirtz(Red)	0.50
007014M	Upper Finger Base A	0.50	007034M	Arm Base	5.00	007052M	Battery Wirtz(Green)	0.50
007015M	Upper Finger Base B	0.50	007035M	Base Side Panel A	5.00	4400257	M3 X 25 Screw	0.10
007016M	Finger Link X	0.50	007036M	Base Side Panel B	18.00		Lock Nut	
007017M	Finger Link Y	0.50	007037M	Battery Box Cover	8.00			
007018M	Cutch Gear A	0.50	007038M	Control Panel	5.00			
007019M	Cutch Gear B	0.50	007039M	Control Panel Base	5.00			
007020M	Base Cover Link	0.60	007040M	Slider Plate	0.20			

OWI Inc.  
 17141 Kingsview Avenue  
 Carson, California 90746 USA  
 Tel: (310)515-1900  
 Fax: (310)515-1806

### CONGRATULATIONS!

You have just completed your OWI robot / science kit. The Executive Board of Transisters, Resistors, and I.C. Chips of OWI Inc. would like to present to you a certificate of completion.  
 How can you obtain your free OFFICIAL CERTIFICATE OF COMPLETION? Please follow steps one and two:

1. Clearly print or type your name here:

Name

Address

City

State

Zip Code

Telephone number

2. Enclose a photograph with you and your assembled OWI robot kit.  
 Allow 3 - 4 weeks for delivery.

Thank you for choosing OWI ... the leader in educational electronic robot and science kits.

**OWI INC.  
LIMITED WARRANTY  
OWIKIT**

1. The product is warranted for 30 days from the date of purchase. It is the owner's responsibility to establish the date of purchase by acceptable evidence at time service is sought.  
2. Under the warranty period:

- A. OWI ROBOT KITS/Kits with pre-soldered parts)
  - 1. OWI Inc. guarantees the ROBOT to perform as stated in the OWI Inc. Advertisement Department.
  - 2. Include with the unit the following: copy of receipt of purchase, your name, address and telephone number, and a brief description of the problem. Do not use P.O.Box.
- B. If the warranty card has not been mailed to OWI Inc. include it with your model for repair:
  - 1. OWI KITS/Kits that require soldering
  - 2. OWI KITS/Kits that require no soldering
- C. The warranty on these kits shall be limited to the replacement of parts, if the parts have been found to be missing, damaged or defective. (The parts to OWI Inc. include the following information with your request:
  - 1. Type or part number, address, and telephone number (No P.O.Box)
  - 2. Model name, model number and lot number
  - 3. Part number and description
  - 4. Quantity of parts
  - 5. Reason for replacement (defective, missing, etc.)

- 3. This warranty does not cover parts that have been damaged by improper soldering.
- 4. OWI Inc. will not be responsible for consequential damage. The sole responsibility of OWI Inc. under this warranty shall be limited to the replacement of the parts and/or repair of the model at the sole discretion of OWI Inc.
- 5. IMPORTANT: This warranty will be considered void unless the Warranty Registration Form is completed and mailed to OWI Inc. for registration within 18 days following the date of purchase. (Note: NOT under warranty, send the unit POSTAGE PREPAID to OWI Inc. accompanied with a check in the amount of \$30.00 per model made payable to OWI Inc., and a brief description of the problem, include with the unit, your name, return address and telephone number. Do not use P.O.Box. Do not include any batteries with the unit. Allow 30 days for repair.
- 7. This warranty gives you special legal rights, and you may also have other rights which vary from state to state.

OWI INC.  
17141 Kingsview Avenue  
Carson, California 90746  
Customer Service: (310)515-1900  
Hours: 9:00 AM to 4:00 PM PST  
Fax: (310) 515-0666

**LIMITED WARRANTY REGISTRATION**  
PLEASE CUT OUT, COMPLETE AND MAIL THIS FORM

(Please type or print)

Model Number: \_\_\_\_\_ Model Name: \_\_\_\_\_ Lot Number: \_\_\_\_\_  
 Owner's Name: \_\_\_\_\_ Day: \_\_\_\_\_ Year: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Type of Order:  Retail  Wholesale  Science Museum  Mail Order  Other \_\_\_\_\_  
 Purchased from: Dealer's Name \_\_\_\_\_  
 Type of Store:  Retail  Wholesale  Science Museum  Mail Order  Other \_\_\_\_\_  
 Date of purchase: \_\_\_\_\_ (Keep for your record)  
 Model Number: \_\_\_\_\_ Lot No: \_\_\_\_\_  
 Model Name: \_\_\_\_\_

**JOIN THE MAKIT WITH OWIKIT CLUB TODAY!**  
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			\$ 5.00
		Delivery Charges (AK/HI) add \$ 3.00	\$
		CA res. add tax	\$
		Total amount	\$

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Make your check payable to OWI INC. Allow 3-4 weeks for delivery.