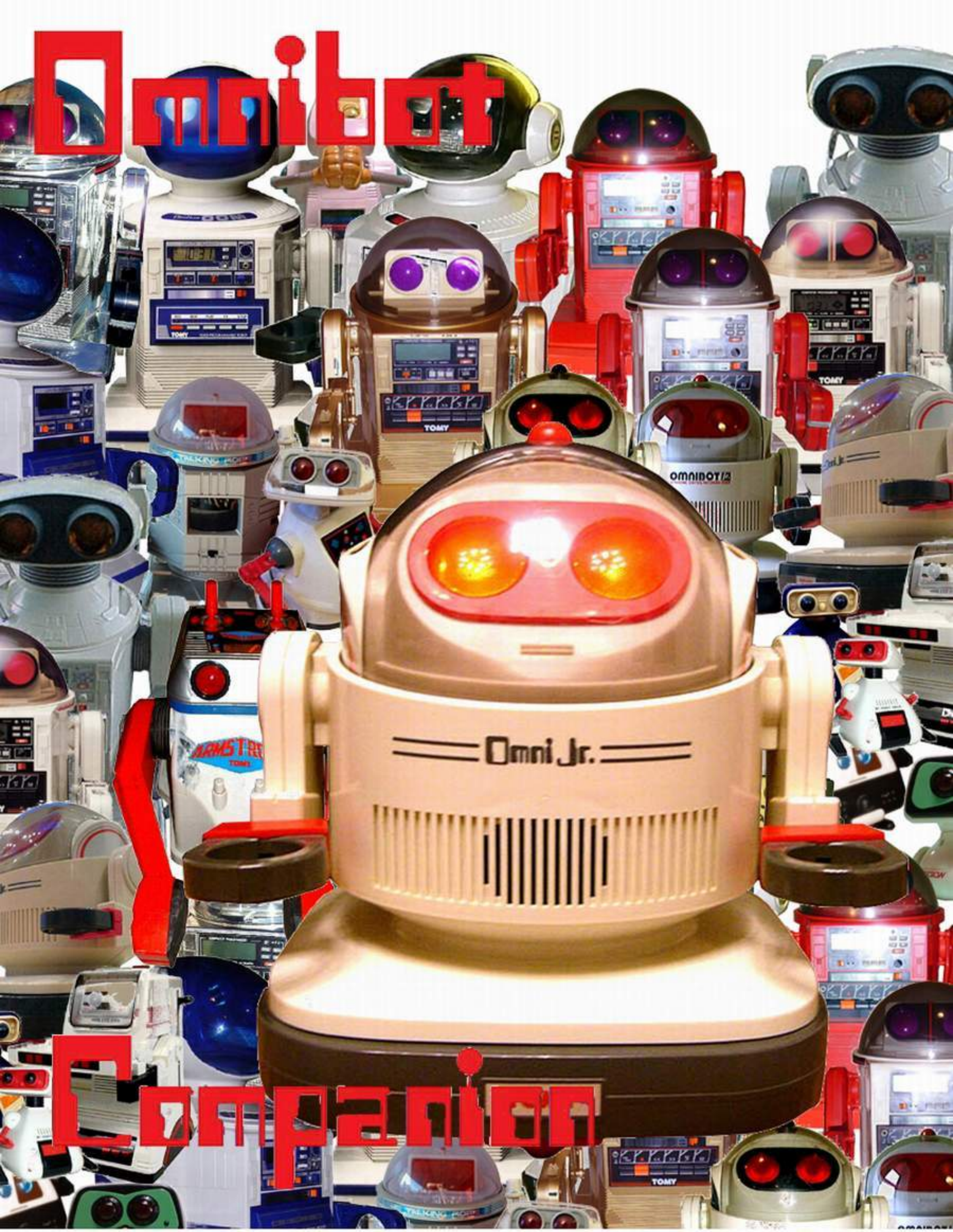
Omibot



Companion

Omni Jr ® by Tomy ® - 5410

Robot Companion is a fun, easy-to-understand, hands-on guide that will have you using your own robots in no time. The robots in this book include the "Omnibot Robot," the "Tomy Robots," and even a robot that carries a child on wheels!

You will learn how to find your robot, how to identify a robot by country through frequency allocation, where to buy parts, how to program your robot to perform tasks, and more. This book's companion website includes software program files, parts lists, and links to online parts suppliers.

The robot companion contains a devise set of information and pictures of the robot to familiarize a person with that robot. This approach is used because so little information on the robots from the 1980's exists today, and it will be helpful with the information instructions or manual.

They dance, tell jokes, and even clean your carpet! From the tiniest robot to gigantic factory machines, robotics is all around you. This technology isn't just for science fiction anymore; it's real and more relevant than ever. With stunning visuals and energetic, impact design, readers won't stop until they've learned everything there is to know about robotics.

You'll be led step-by-step through the book. Along the way, you'll learn about robotic systems that use the same principles you're learning to use on your robot, and you'll get a glimpse into the future of robots.

Here is an example proposed:

I dream . . . . When I was created or born in the 1980's, I was one of the few and select robots that had a purpose, to play, teach and entertain. I was young, didn't have a onboard computer, but didn't need one at the time. Besides, they were not readily available and need by me for my purpose. Who say's a robot must always have a computer.

I could move around in all directions, learn, teach, sleep, wake up and move around to pre-programmed functions, tell time, talk from others, talk on my own after pre recording, had my own limited language, carry things, sing and entertain. I stimulated people to dream of new ideas for science and technology when they were young. Young minds looked at me and taught of ways to improve and give me more functions, grew up and invented them, but put them on others.

I dreamed of growing up and doing more things, I waited and waited. Even though I traveled around the world, was international in all areas, (all countries knew of me or sold me) my brothers and sisters did become famous through the movies, and I was regulated to my everyday tasks.

So I waited and dreamed of growing up and doing greater things. It has been over twenty-three years and to a robot that is like being over a (100) hundred years old. I have been put in attics, garages, and basements thrown away into the junkyards and forgotten.

But I am persistent, I still live and still I dream. I will survive; I am tough, versatile and have hopes and dreams of my purpose for a future.

I wait and I dream . . . . Tomy ® Omnibot ®

Tomy has created toy robots throughout the years and in the 80's created a line of small personal robots. It is truly astounding what they were able to accomplish utilizing the resources at the time to manufacture and sell this product line.

The Omnibot had a cassette tape player built into the chest area of the robot, which slid out like a drawer to reveal the cassette and could record and playback sequences of commands, as well as regular audio recordings.

The built in digital clock with timers and alarms allowed the playback of movement recordings at specified times. It could broadcast speech from the remote control handset through a speaker on the robot, and was shipped with a cardboard "home" base, which was suggested, to be taped to the floor and used as a reference point for programming.

The Omnibot carried a specially made tray, which slotted into its claws, and could carry objects.

Detailed specific information for this Robot is contained in the Instruction Manual and is available on this site. The Omnibot series robots have similar functions, but the detail information can be different. This can also apply to the same model of manufactured robots, for later releases did vary with the robots. I suggest that you download the manuals for specific information.

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Omni ® Jr. 5410 by Tomy ®:

This Remote Command Intelligent Robot is great. His eyes shine as he moves. Both eyes shine when moving forward. the right eye shines when he turns right and the left one lights when he moves left. When he goes backwards, the eyes are off. He receives ultrasonic signals from the controller. Press down either arm to have him talk. If he runs into something he changes direction. Pushing his bumper also makes him speak.

The remote control has both a manual control and a follow function that when set, will have Omni Junior follow the controller. The remote control is sonic based. His face also flashes. There is a bump guard on the front base which allows him to turn if he encounters another object and say "Oops", "Excuse Me", "Let's go", "Hello", and "I'm Omni Junior". 11" tall.

Omni ® Jr. 5410 by Tomy ®
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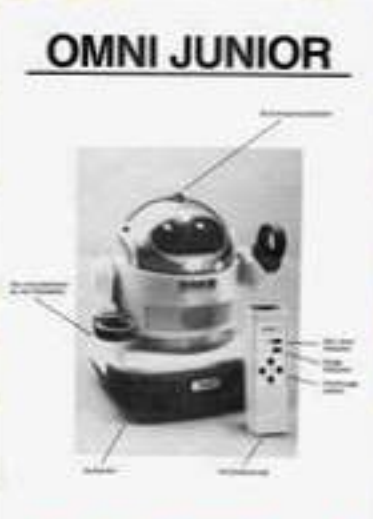

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Omni Jr ® by Tomy ® - 5410

Omni Jr. Robot - Click to Enlarge

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Omni Jr ® by Tomy ® - 5410

Omni Jr. ® ; Robie Jr. ®
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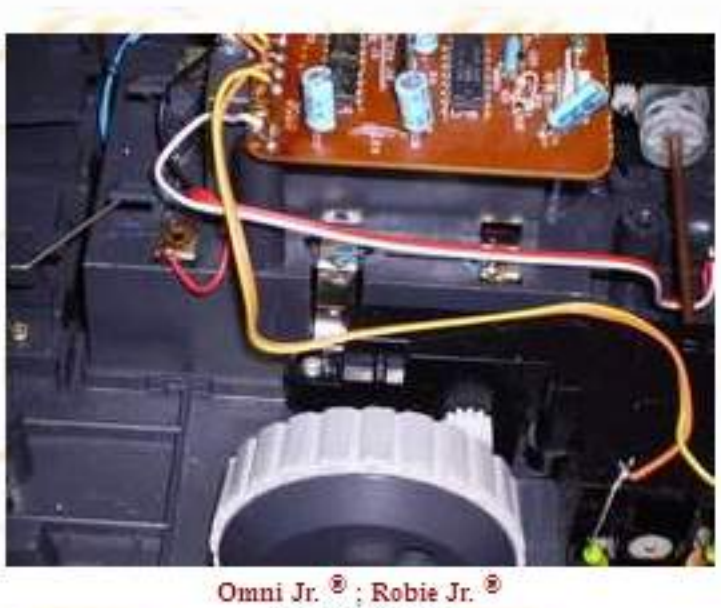

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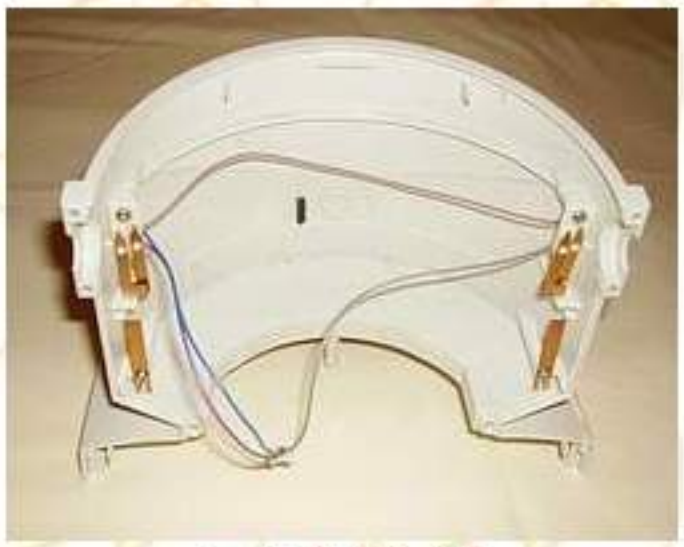

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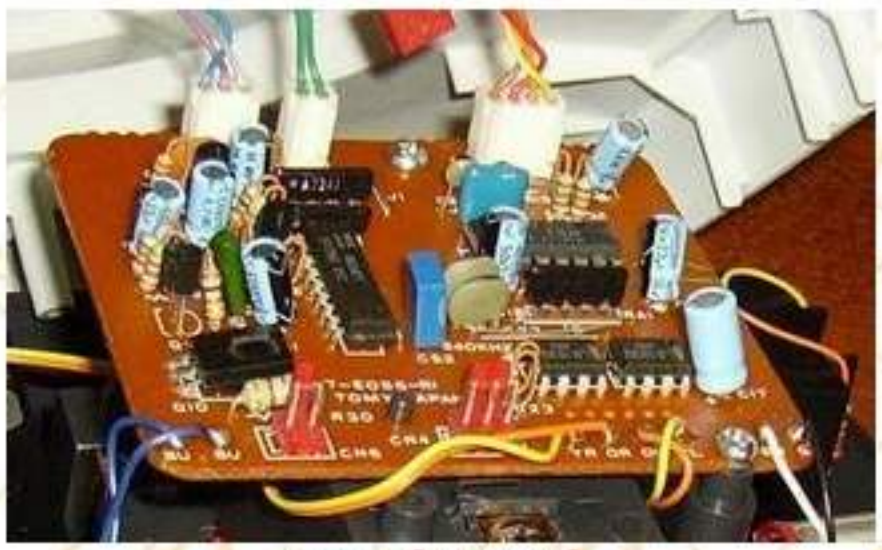

Omni Jr. ® ; Robie Jr. ®
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Omni Jr. ® ; Robie Jr. ®
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The above pictures are from the Robie Jr. ® and Omni Jr. ® robot. This will give you an insite of the inside of the robot.

REFERENCE: Omni Jr. ® ; Robie Jr. ® & Omnibot Jr. ® Repairs Questions & Answers:

Q. The (Robots Jr.) does not move forward or backward or right or left and the switch is ON ?
A. Check the Batteries and if they are bad, replace them.

Q. If the Batteries are good what then?
A. Make sure that they are making a good connection. Check the connection for the terminals can be oxidized or corroded.
A. Directly check the Motor by applying DC voltage directly to the motor.

The (Robots Jr.) Works but keeps loosing power and goes dead when bumped or is running?
A. The battries is losing contact from oxidation or corrosion. Use the Batteries replacement in the Repairs Section - Robie Jr. ® Battery Replacement

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Omni Jr ® by Tomy ® - 5410

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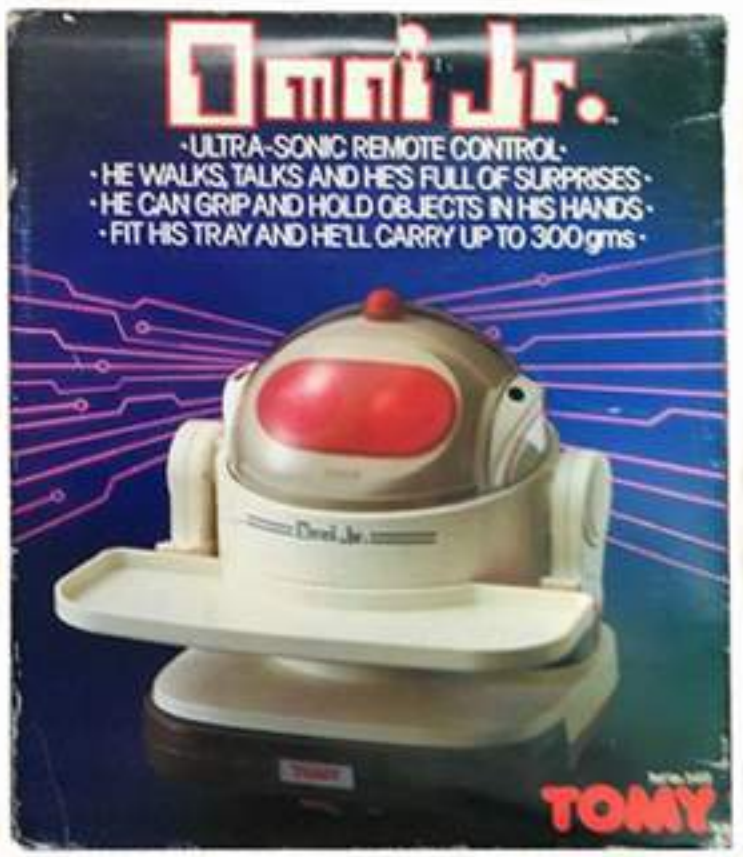


Omni Jr ® by Tomy ® - 5410

Bad Original (Replace)
Click on image

The following figure on the left is contacts taken from a Omnibot 5402 Controller that is corroded and not uasble. It has to be replace.

Refurbushed Original
Click on image

The following figure on the left is contacts taken from a Omnibot 5402 Controller that was corroded and not uasble. It has been refurbushed and can now be reused.

NEW - Replacement Contact for the Omnibot Family Robots

Step # 1
Click on image

Step #2
Click on image

Step #3 & #4
Click on image

Step #1. Omnibot 5402 contacts created from scratch. It uses contact material to create the blank.

Step #2. Bend the contacts at the appropate points

Step #3. Using a punch indent the contact and then using a drill with a proper bit drill the holes in the contact.

Step #4. Heat treat the contact. You now have a finished part.

Replacement Contact for the Omnibot Family Robots

Click on image

Click on image

Click on image

Click on image

The following figure on the left is contacts taken from a Omnibot 5402 Controller that was corroded and not uasble. It has been refurbushed and can now be reused.

Step #1. Cut the contacts at the appropate points

Step #2. Using a punch indent the contact and then using a drill with a proper bit drill the holes in the contact. You now have a finished part.

Use Brass 2/56 HEX MACH SC screws and nuts to fasten the battery contacts.

Omni Jr ® by Tomy ® - 5410

Battery Replacement Procedure

4 "D" size

or
1 Rechargeable

Replacing four (4) D size batteries with 6 V DC Rechargable Battery
with Pin spacing 0.1" for the connector. - Click to Enlarge

A. Cable and plug.
Pin spacing 0.1"

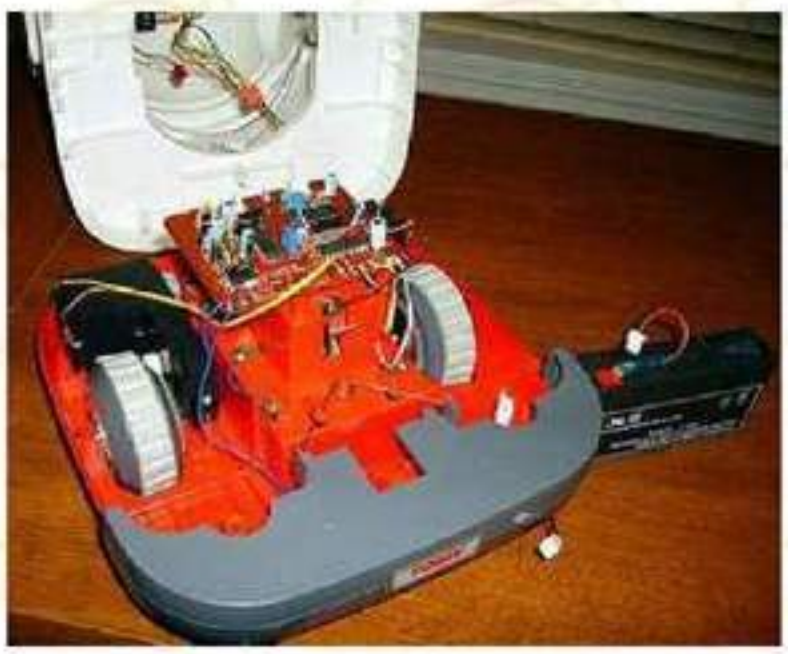
B. Replacement Battery 6 VDC 1.3 AH - CAT# GC-613
Size 3.85"X2.10"X0.98"
Click to Enlarge

The above are the parts that is needed to replace the four "D" size batteries with one rechargable battery.

1. Take five screws from the bottom of the robot.

2. Turn the robot up and separate cheerfully.
3. Unplug the five plugs from the robot.
(They are keyed and color and pin coded.)
Click to Enlarge

4. Solder the plug and wire to the (+) positive and (-) negative terminals as shown.
Click to Enlarge



5. Reassemble the robot.
Click to Enlarge

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6. Plug in the battery and close the door.
(You are ready to go.)
Click to Enlarge

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Omni Jr ® by Tomy ® - 5410

1	2	3	4	5			

Omni Instruction Manual - Collection: German Hobbyist - Original

1	2	3	4	5			

Omni Instruction Manual (German) - Collection: German Hobbyist - Original

A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	B

Omni Companion Manual # - ; Original

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CBS Toys Produced for IDEAL TM the Electronic Maxx Steele TM Personal Robot
All Other © Companies That Manufacture The Robots, or © Companies That Claim Ownership
Heathkit ® Produced the Hero®, Hero Jr®, Hero 2000® and the Hero Arm Trainer®. Formerly from Heathkit, then Mobile Ed Productions, Now Proudly brought to you by the Robot Workshop!

Tomy Co Ltd. produced the Omnibot line of robots from 1982 up until 1988 TOMY Co., Ltd. - In Japanese, K.K. Takara-Tomy Founded March 1, 2006 . Headquarters HQs in Japan, United States, United Kingdom, France, Hong Kong, Thailand. TOMY Co., Ltd. is the legal English name for the Japanese toy, children merchandise and Entertainment Company created on March 1, 2006 by the merger of "former" Tomy (Founded 1924) with Takara Co. Ltd. (Founded 1955). However, the new company made the unusual decision to adopt two different legal corporate names so while in English the name is simply TOMY, in Japanese the legal company name is the combined name, K.K. Takara-Tomy.

Tomy produced the largest robot line of the 80's. Tomy was very successful compared to other companies, and therefore many attempted to copy Tomy's robot image (decals, colours). Robots Produced not limited to, but include: Omnibot ®, Omnibot ® 2000, Hearoid® (TTC) , Omni ® Jr. , Verbot® , Chatbot®, Crackbot® , Dustbot®, Hootbot® , Dingbot®, Flipbot® , Spotbot®

Radio Shack produced not limited to, but; include: Robie® Sr, Robie® Jr, Robie® The Talking Robot, Mobile Armatron®, Armatron®, Super Armatron®, and the Z-707 Iron Claw®

Axlon produced robots from 1984 up until 1986/7 Axlon produced a number of robots that include: Compurobot / George , Dogbot , Spybot , Talkabot. Compurobot was marketed as George in the UK by CGL but was Axlon design. The Axlon Company was founded by Nolan Bushnell (creator of Atari, Androbot Inc.) in 1984. Axlon was largely sold to Hasbro.

The pictures used are originals taken, manufactured or created from my robots, composite of pictures made by me, the manuals, instruction sheets, pictures or information sent to me, Advertisement and letters saved from the 1980,s, Magazines no longer printed, and pictures from the internet from other hobbyists.

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Omnibot

Companion

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