

ROBOTIC PARTS CATALOG

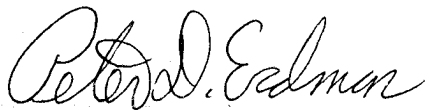
A SPECIALTY CATALOG FOR ROBOTIC HOBBYISTS

VID COMM III
ENTERPRISES, INCORPORATED

JUNE 1985

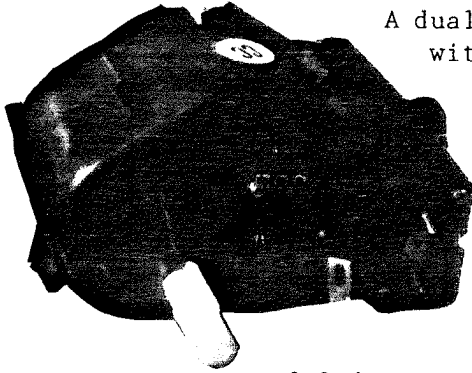
"... a specialty catalog
published for the home
robot hobbyist ..."

Few people will doubt that a natural extension of the consumer computer era is the personal robot and that robots of some form will play an important role in all of our lives in the years to come. However, what robots will do today is clearly less than what most consumer's want. Robots will not efficiently wash dishes or windows, but the technology is entering the price range and sophistication of many home hobbyists. This catalog of specialty parts is written wholly for the hobbyist. In it you will find numerous specialty parts for home robotic projects -all available from one source, at a modest cost. It is my company's intention to make available a number of robotic/control products that are sophisticated, but yet simple enough for those individuals with a limited electronic background. Please be watching for exciting new products from VID COMM III coming up in the next year.



Peter D. Erdman
Vice President
Robotics Division

SA100 ACTUATOR



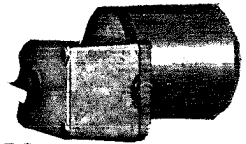
A dual motor, dual drive mechanism with gear reduction. The two independent drive systems are magnetically clutched together for synchronous rotation. Both motors are independently reversible. The SA100's low cost makes it ideally suited for small home hobby applications.

- ° 3-6 VDC
- ° 150 MA (per motor @ 6 VDC)
- ° 16 OZ-IN, 100 RPM (@ 6 VDC)
- ° Gear Box: W. 4.2", L. 5", D. 2.75"
- ° Shafts: D. .375", L. 1.25"

SA100 \$12.50

SA120 ACTUATOR

A high speed DC motor linked to a gear reduction mechanism. For small positioning/drive applications.

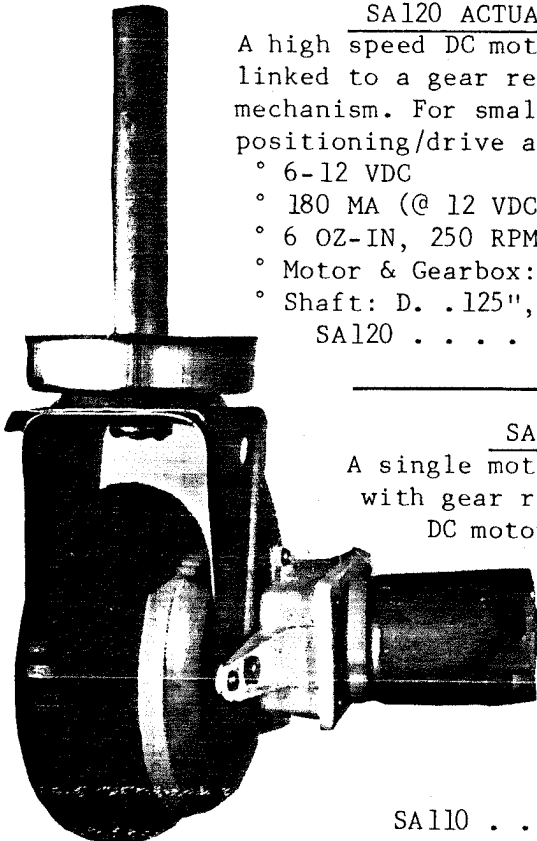


- ° 6-12 VDC
- ° 180 MA (@ 12 VDC)
- ° 6 OZ-IN, 250 RPM (@ 12 VDC)
- ° Motor & Gearbox: L. 2", W. 1.3", H. 1.25"
- ° Shaft: D. .125", L. .5"

SA120 \$9.50

SA110 ACTUATOR

A single motor, single drive mechanism with gear reduction. The reversible DC motor drives a rubber wheel.



- ° 200 RPM @ 12 VDC
- ° 75 RPM @ 6 VDC
- ° 2 Amps (@ 12 VDC)
- ° 6-12 VDC
- ° Mounting Post:
 - L. 5", D. .75"
- ° Wheel: D. 4.75",
 - T. 1.375"

SA110 \$48.00

STEPPER MOTORS/ LINEAR ACTUATORS



RP120 PRECISION STEPPER

For light duty positioning applications. Stepping occurs upon each polarity reversal. Mounting flange included.

- ° 5 VDC
- ° Bi-directional
- ° 7.5° per pulse
- ° Motor:D. 1 3/8", T. 1 1/16"
- ° Shaft:D. 5/32"

RP120 \$7.00

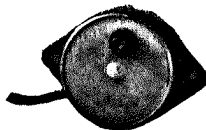


SA135 LINEAR STEPPER

A large angle 4-phase PM stepper motor with a long extending lead-screw shaft. Operates on a wide range of voltages. Ball bearing shaft. Ideal for precise increments of linear motion.

- ° 6-30 VDC
- ° 90° per pulse
- ° Max of 175 pulses/second
- ° 20 ohm per phase
- ° Dynamic torque: 7 OZ-IN (@ 28 VDC)
- ° Stall torque: 11 OZ-IN (@ 28 VDC)
- ° Fine tooth worm gear
- ° Motor:D. 1 1/2", L. 2 1/8"
- ° Shaft:D. 3/8", L. 4 3/4"
- 24 teeth per inch

SA135 \$38.50

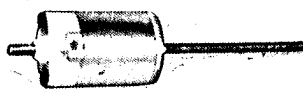


RP100 ULTRA PRECISION STEPPER

For ultra precise light duty positioning applications. Stepping occurs upon each polarity reversal.

- ° 5-7 VDC
- ° .18° per pulse
- ° Max of 15 pulses/second
- ° Motor:D. 1 1/8", L. 1 1/8"
- ° Shaft:D. 1/8"

RP100 \$8.75



SA130 LINEAR ACTUATOR

A PM, DC motor with a double ended shaft. Sleeve bearings. Use with a 10/32 nut for quick linear motion. Quick connect terminals.

- ° 12 VDC
- ° 700 MA
- ° 3200 RPM
- ° Stall torque: 20 OZ-IN
- ° Motor:D. 1 1/2", L. 2 1/2"
- ° Shaft #1:D. 3/16", L. 1/2"
- ° Shaft #2:D. #10/32 rod L. 3 1/8"

SA130 \$19.50

ALL PRODUCTS ARE
FULLY GUARANTEED

RP140 HEAVY DUTY MOTOR

A high speed, economical utility motor for drive applications. Solder terminals.

- ° 6-12 VDC
- ° Bi-directional
- ° 2 Amp (@12 VDC)
- ° Motor:L. 2 1/2", D. 1 1/2"
- ° Shaft:L. 5/8", D. 5/32"

RP140 \$8.50

RP150 MEDIUM DUTY MOTOR

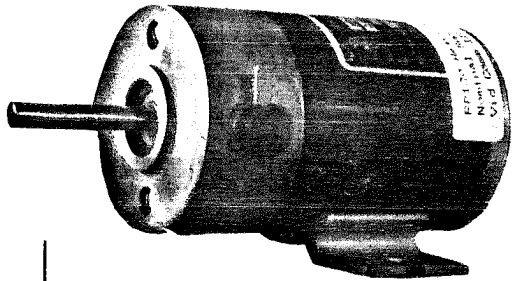
An inexpensive, high speed, medium duty DC motor for drive and accessory functions.

- ° 6 VDC
- ° 180 MA
- ° Bi-directional
- ° Motor:L. 2", D. 1 1/2"
- ° Shaft:L. 1/2", D. 1/8"

RP150 \$5.00

SOME QUANTITIES ARE LIMITED

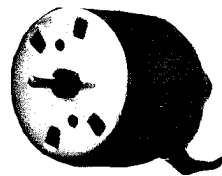
...ORDER EARLY!!

RP130 HEAVY DUTY MOTOR

A high speed, high quality utility motor for high-torque applications. Mounting flange included.

- ° 6-30 VDC
- ° Bi-directional
- ° 6000 RPM, 2.6 A, 15 OZ-IN (@30 VDC)
- ° Motor:L. 5", D. 3"
- ° Shaft:L. 1 1/2", D. 1/4"

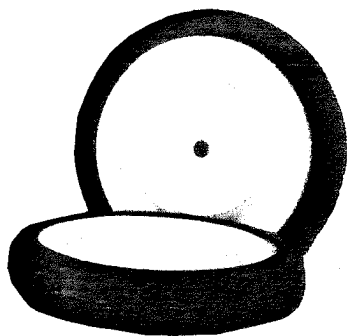
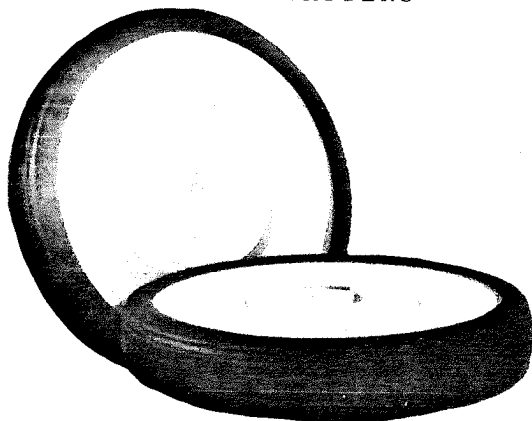
RP130 \$55.00

RP110 LIGHT DUTY MOTOR

A high speed, light duty DC motor for general purpose drive/positioning applications.

- ° 3-6 VDC
- ° 200 MA (@ 6 VDC)
- ° Bi-directional
- ° Motor:L. 1 1/4", D. 1 1/4"
- ° Shaft:L. 3/8", D. 1/16"

RP110 \$1.25



Hard rubber wheels with grooved tread. Select RP512 model for direct use with the SA100 actuator.

° Wheel: D. 4", 5" or 6", T. 1"

° Hole: D. 1/4" or 3/8"

4" diameter, 1/4" hole

RP510 \$2.25

4" diameter, 3/8" hole

RP511 \$2.50

5" diameter, 3/8" hole, cutout for SA100

RP512 \$2.50

6" diameter, 3/8" hole (can be drilled larger)

RP513 \$2.50



1" CASTER

A miniature ball-bearing swivel caster for a "third wheel". 3/8" mounting bolt attached. Hard plastic wheel.

RP500 \$.80

1" CASTER EXTENSION KIT

Includes a 1 3/4" bolt extender coupling and a 3/4" long, 3/8" bolt. Use with caster above.

RP505 \$1.25



2 1/2" CASTER

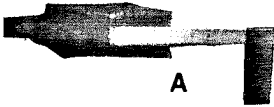
A rugged ball-bearing swivel caster. Four 3/8" mounting holes on a steel plate. Hard rubber wheel. Excellent for idler wheels on large robots.

RP501 \$6.75

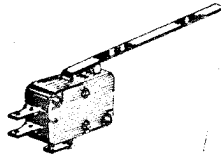
PHONE IN YOUR ORDER:

1-507-281-5858

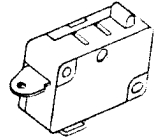
SWITCHES



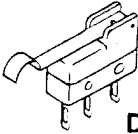
A



B



C



D



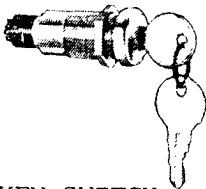
E

FIG.	PART NO.	STYLE	DESCRIPTION	MTG.	CONFIG.	PRICE
A	RP200	Micro	1.25" lever ext. paddle	2-.156" holes	N.O.	\$1.50
B	RP201	Micro	1.75" lever	2-.156" holes	N.O./ N.C.	\$1.50
C	RP202	Micro	No lever	2-.156" holes	N.O.	\$1.50
D	RP203	Micro	.875" lever w/hook	2-.062" holes	N.O./ N.C.	\$1.50
E	RP210	Toggle	Sub-mini	.25" shaft	SPDT MOM	\$1.40
E	RP211	Toggle	Sub-mini	.25" shaft	SPDT	\$2.65
-	RP212	Push	Large red push button	1 1/16" shaft	SPST MOM	\$6.00

N.O. - Normally Open

N.C. - Normally Closed

MOM - Momentary



KEY SWITCH

SPST keyswitch. Excellent for a secure main power switch. Includes two keys and mounting hardware.

° 3/4" shaft

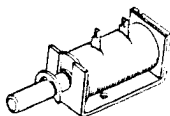
RP240 \$6.50



RP241 TILT SWITCH

A unique "tilt" switch comprised of a steel ball in a plastic cage. A number of wire contacts are arranged such that only two wires can contact the ball at any one time.

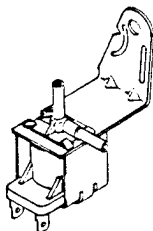
RP241 \$1.50

RP600 SOLENOID

Box frame, pull-on solenoid. Removeable plunger with snap-on ring. Solder terminals.

- ° 2-24 VDC
- ° 650 MA (@1 VDC)
- ° Frame:L. 1 3/4", W. 7/8"
- ° Plunger:D. 5/16", L. 1"

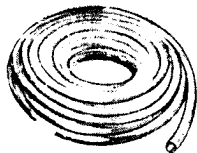
RP600 \$4.75

RP620 WATER VALVE

A solenoid action water valve. Valve opens upon energizing device. Mounting plate included.

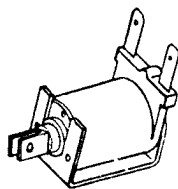
- ° 12 VDC
- ° 175 MA
- ° Uses 1/4" hoses (below)
- ° Frame: 1" x 1" x 1 1/4"
- ° Mtg bracket: 1 1/2"

RP620 \$5.75

VINYL TUBING

All purpose 1/4" ID vinyl tubing for non-flammable liquids. Use with RP620 valve and RP610 pump. Sold in packages of 10 feet.

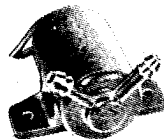
RP710 \$2.75

RP635 SOLENOID

Box frame, pull-on solenoid. Removeable plunger. Solder terminals. Plunger is slotted and drilled in the end.

- ° 12 VDC
- ° 550 MA
- ° Frame:L. 1 1/4", W. 3/4"
- ° Plunger:D. 5/16", L. 3/8"

RP635 \$5.00

RP610 WATER PUMP

All plastic sealed unit for low volume applications. Lifts 1 foot primed, 3 feet unprimed. For intermittent use. Mounting bracket included.

- ° 6-12 VDC
- ° 500 MA (@ 12 VDC)
- ° Use with 1/4" ID tubing (order below)
- ° Pump:D. 1 3/3", L. 2 5/16"
- ° 12" leads

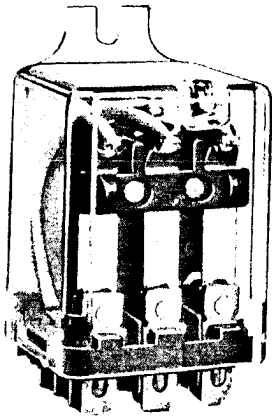
RP610 \$10.75

RP630 SOLENOID

Box frame, pull-on solenoid. Removeable plunger. Solder terminals. Hole drilled through threaded plunger.

- ° 12 VDC
- ° 250 MA
- ° Frame:L. 1 1/8", W. 3/4"
- ° Plunger:D. 5/16", L. 1/2"

RP630 \$5.50



GENERAL PURPOSE RELAYS

Heavy duty, high quality durable relay for DC/AC applications. Mounting flanges. Quick-connect/solder terminals. Contacts rated 10 Amp/24 VDC or 10 Amp/240 VAC.

DPDT; Coil: 6 VDC

RP350 \$12.50

DPDT; Coil: 12 VDC

RP351 \$12.50

3PDT; Coil: 6 VDC

RP352 \$17.50

3PDT; Coil: 12 VDC

RP353 \$17.50



RP344 BYPASSED RELAY

A SPST general purpose relay. The contacts are bypassed with a 3.3 MFD capacitor. Open frame.

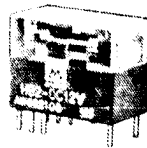
° SPST

° Normally open

° Coil: 12 VDC, 120 Ohm

° Contacts: 10 Amp/20 VDC

RP344 \$7.00



PC MOUNT DPDT RELAYS

A sub-mini relay that can be mounted directly on a PC board. 16 pin DIP configuration.

° DPDT

° Contacts: 2 Amp/20 VDC

Coil: 5 VDC, 43.4 Ohm

RP342 \$6.00

Coil: 12 VDC, 250 Ohm

RP343 \$6.00



DIP REED RELAYS

Contacts are hermetically sealed for hostile environments. Very small package for use directly on PC board.

° Fast switching speed

° Life of 10⁷ operations

° SPDT

Coil: 6 VDC, 200 ohm

RP345 \$9.50

Coil: 12 VDC, 500 ohm

RP346 \$9.50

RP341 SPST RELAY

A general purpose relay for most applications. Solder terminals.

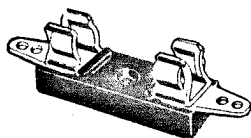
° SPST

° Coil: 6 VDC, 150 MA

° Contacts: 14 Amp/20 VDC

RP341 \$5.00

ELECTRONIC



FUSE HOLDERS

Chassis mount. Solder terminals.
Uses 1/4" by 1 1/4" fuses below.

1 station

RP230 \$.50

6 station

RP231 \$1.75



FUSES

Fast acting AGC. Slow blowing.

1/4" by 1 1/4" 1/4" by 1 1/4"

1/4 Amp 1/16 Amp

RP260 . . . \$.80 RP266 . . . \$1.00

3/8 Amp 1/8 Amp

RP261 . . . \$.80 RP267 . . . \$1.00

1/2 Amp 1/4 Amp

RP262 . . . \$.80 RP268 . . . \$1.00

3/4 Amp 1/2 Amp

RP263 . . . \$.80 RP269 . . . \$1.00

1 Amp 3/4 Amp

RP264 . . . \$.80 RP270 . . . \$1.00

2 Amp 1 Amp

RP265 . . . \$.80 RP271 . . . \$1.00

2 Amp

RP272 . . . \$1.00

DUAL ROW BARRIER STRIPS

- ° Screw terminals
- ° 7/16" centers

4 position

RP220 \$2.10

12 position

RP221 \$4.25



DC BUZZER

- ° 3 VDC
- ° 1 1/4" X 5/8"
- ° Mtg holes: 1/16"
- ° Mtg ctrs: 1 1/16"
- ° 20 MA

RP300 \$1.75



PM SPEAKER

A miniature dynamic speaker for tight opening requirements.

- ° 2" diameter
- ° 8 ohm

RP330 \$1.60



RETRACTABLE CABLE

Excellent connecting method for moveable parts, such as keyboards and arms.

- ° 3 conductor
- ° 16" length retracted

RP289 \$2.00

HOOK-UP WIRE

Stranded 18 gauge copper wire for greater flexibility. Use for most wiring needs. Sold in 25 foot lengths. Specify color choice.

RED: RP280 \$3.50

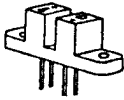
BLACK: RP281 \$3.50

WHITE: RP282 \$3.50

BLUE: RP283 \$3.50

GREEN: RP284 \$3.50

YELLOW: RP285 \$3.50

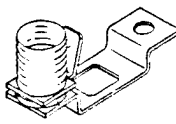


OPTO-INTERRUPTER MODULE

An infrared-emitting diode optically coupled to a phototransistor. A slot in the plastic housing permits breaking of the light by an opaque object -switching the output "on" and "off". Suited for use in motor feedback loops where an encoder disk rotates through this gap.

- ° LED: 10 MA
- ° Phototransistor: 7.5 MA
- ° Pin Spacing: .295"

RP321 \$4.75



LAMP HOLDERS

A miniature threaded base incandescent lamp holder. Sold in packages of 4. Uses lamps below.

RP245 \$1.00



INCANDESCENT LAMPS

Use with sockets above. Threaded E-10 base.

6.3 volt, 250 MA

RP246 \$.59

12 volt, 200 MA

RP247 \$.59

OPTICAL INTERRUPTER

A photodiode and a photo-transistor aimed at one another that mounts directly on the SA100 actuator. Suited for use in servo systems utilizing the SA100 actuator. Mounting bracket, screw and connection instructions included.

- ° 5 VDC operation

RP320 \$2.75

TEMPERATURE SENSOR

This normally open switch closes when it senses a temperature over 85-90 degrees. Ideal for monitoring an over temperature condition. Complete with 12 feet of wire.

RP335 \$8.50



ELAPSED TIME INDICATOR

A chemically activated time measuring device. Time is indicated by the position of a gap between two columns of mercury. Ideal for recording total "on" time.

- ° 5 VDC

- ° .65 uA

- ° Range: 10,000 hours

RP336 \$4.50

HARDWARE



ZINC PLATED BOLTS/NUTS

Round head bolts. Hex nuts.
Packages of 10 bolts, 10 nuts.
Precise hard-to-find small
size hardware.

2-56 (2/64" diameter)
.5" length
RP583 \$.80

1.0" length
RP584 \$.80

4-40 (4/64" diameter)
.75" length
RP580 \$.80

1.0" length
RP581 \$.80

1.5" length
RP582 \$1.00

6-32 (6/64" diameter)
.5" length
RP594 \$.80

1.0" length
RP595 \$.80

1.5" length
RP596 \$.95



ZINC PLATED WASHERS

Flat washers 3/32" ID.
Packages of 20 washers.
RP587 \$.50

ELASTIC LOCKNUTS

Vibration proof lock nut
for bolts sold on this
page. Locking element is
a compressive nylon collar
securely clamped into the
head of the nut. Packages
of 10 nuts.

2-56 (2/64" diameter)
RP530 \$1.60

4-40 (4/64" diameter)
RP531 \$1.60

6-32 (6/64" diameter)
RP532 \$1.60

8-32 (8/64" diameter)
RP533 \$1.60



NATURAL NYLON BOLTS/NUTS

Round head bolts. Hex nuts.
Excellent for use in
electrical applications
where conductivity is NOT
desired. Packages of 5
bolts & 5 nuts.

4-40 (4/64" diameter)
.5" length
RP588 \$1.00

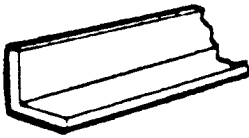
1.0" length
RP589 \$1.00

6-32 (6/64" diameter)
.5" length
RP590 \$1.00

1.0" length
RP591 \$1.00

8-32 (8/64" diameter)
.5" length
RP592 \$1.00

1.0" length
RP593 \$1.00



ALUMINUM RAILS

Angled aluminum rails for modular robot frames. Easily drilled, sawed, bent and shaped. Lightweight, yet very strong. Once cut to length, sections bolt together for an expandable and flexible framework. Use with panels and hardware on this page for a fully modular frame.

- 1/16" thick aluminum
 - 1" wide angles
 - Standard 3' lengths
- SA400 \$5.50

PVC RAILS

Similar modular frame rails as above only constructed of polyvinyl chloride. Can be drilled, shaped, formed, cemented.

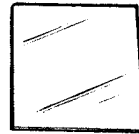
- Color: gray.
 - 1 1/4" wide angles
 - 3/16" thick PVC
 - Standard 2' lengths
- SA405 \$4.50

ASSEMBLY HARDWARE KIT

Order this hardware kit for assembling the aluminum or PVC rails on this page.

Includes 10 each of: 1/4" bolts, nuts, flat washers and lock washers. Order smaller bolts on page 12 for accessory mounting.

SA420 \$1.50



POLYPROPYLENE PANELS

Polypropylene panels for robot "skin". Excellent physical properties -can be drilled, sawed, glued, cemented. Outstanding electrical insulation. High resistance to corrosive chemicals. High tensile strength and stiffness. Low specific gravity. Color: white. Very lightweight. Use with rails and fasteners on this page for a fully modular frame.

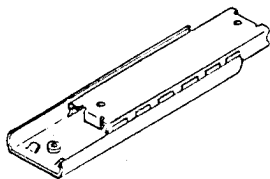
- 24" X 24" panels
 - 1/8" thick
- SA410 \$9.75



CAGE NUT FASTENERS

These cage nut fasteners are an ideal method for fastening our polypropylene panels to either the aluminum or PVC rails. The caged nut receptacle slides over the edge of the rail. A bolt is then inserted through the panel and is turned into the stationary nut. Very strong and durable. Good for 1000's of uses. Ideal for exterior panels that need to be removed often. Includes cage nuts, flat washers and 1/4" bolts. Sold in packages of 10.

SA430 \$6.50

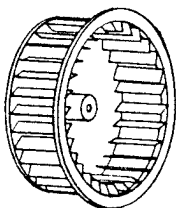


RP570 BEARING SLIDES

Two metal sections coupled together with bearings. Similar to a drawer guide. Use for smooth linear support and motion.

- ° 500 Lbs. max weight
- ° 5 1/4" long
- ° 5/8" wide
- ° 6 1/4" extended

RP570 \$2.75

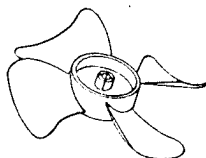


SQUIRREL CAGE BLADE

Plastic constructed miniature squirrel cage blower type fan blade.

- ° Blade:D. 2 3/4", T. 1"
- ° Hole:D. 1/8"

RP520 \$1.50

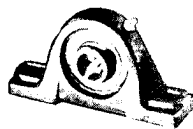


PLASTIC FAN BLADE

A 4 fin fan blade, plastic construction.

- ° Blade:D. 3 1/2", T. 5/8"
- ° Hole:D. 3/16"

RP522 \$1.50



BEARING BLOCKS

A bearing sleeve mounted in a pillow block configuration. Excellent for drive systems. 1/4" or 3/8" shaft size.

1/4" shaft size

RP566 \$12.00

3/8" shaft size

RP567 \$12.00



PRECISION BEARINGS

Sealed bearings for precise applications. 1/8", 1/4" or 3/8" shaft size.

1/8" ID

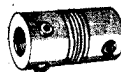
RP550 \$3.25

1/4" ID

RP551 \$4.75

3/8" ID

RP552 \$4.75

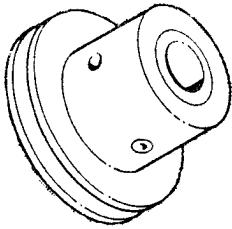


FLEXIBLE COUPLING

Stainless steel coupling shaft with flexible bellows. Double set screws.

- ° Max torque: 50 OZ-IN
- ° Coupling:D. 1/2", L. 15/16
- ° 1/4" to 1/4" shaft size

RP565 \$6.00



GROOVED PULLEYS

Miniature grooved pulleys for direct motor shaft mounting. Delrin construction with a brass insert. Compatible with all parts sold on this page.

- ° Diameter: 1"
- ° Max. cable diameter: 3/32"

Bore: 1/8"; Set-screw: #2-56

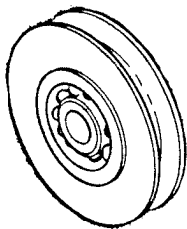
RP561 \$8.75

Bore: 3/16"; Set-screw: #4-40

RP562 \$8.50

Bore: 1/4"; Set-screw: #6-32

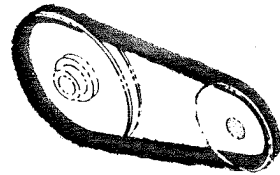
RP563 \$8.25



IDLER PULLEY

Miniature idler pulley for belt drive mechanical mechanisms. Pulley is of nylon construction with steel ball bearings. Compatible with all parts sold on this page.

- ° Bore: 1/4"
 - ° Diameter: 1 1/4"
 - ° Overall diameter: 1 1/2"
 - ° Max. cable diameter: 3/32"
 - ° Max. load (@500RPM): 80 lbs.
- RP560 \$8.25



ROUND ENDLESS BELTS

Neoprene endless belts for pulleys sold on this page. Tolerance of specified ID is 3%. Up to 10% elongation is permissible.

- ° 3/32" diameter

2 1/2" ID

RP540 \$1.75

3" ID

RP541 \$2.40

3 1/2" ID

RP542 \$2.50

4" ID

RP543 \$3.10

5" ID

RP544 \$4.20

6" ID

RP545 \$6.15

8" ID

RP546 \$9.00

9" ID

RP547 \$10.70

STEEL SHAFTING

Smooth finished cold rolled steel shafting for pulley, wheel and utility mounting. Sold in 18" lengths.

1/4" diameter

RP536 \$1.25

3/8" diameter

RP537 \$1.35

BATTERIES



IMMOBILIZED ELECTROLYTE RECHARGEABLE BATTERIES

Maintenance-free, rechargeable lead-calcium batteries for high current applications. These batteries can be used in literally any position. No memory -delivers full capacity when required. Suited for a main power source. Complete with recharging specifications and characteristic graphs. Tin-plated brass, tab-type terminals.

12 Volt/15 Amp Hour

° Battery: L. 7.22", W. 3.34", H. 6.49"

° Weight: 12.8 Lbs.

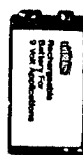
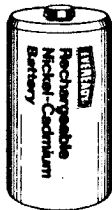
RP810 \$79.95

6 Volt/15 Amp Hour

° Battery: L. 3.6", W. 3.34", H. 6.49"

° Weight: 6.4 Lbs.

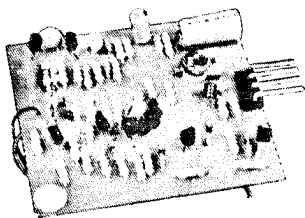
RP811 \$49.95



NICKEL-CADMIUM RECHARGEABLE BATTERIES

Standard sized rechargeable batteries for general power applications. Use where current demand is not large. Sold in blister packs of 2 (9 volt cells sold individually).

<u>PART NO.</u>	<u>SIZE</u>	<u>VOLTS</u>	<u>CAPACITY</u>	<u>QTY</u>	<u>PRICE</u>
RP800	AA	1.2	500 mAh	2	\$8.00
RP801	C	1.2	1.2 Ah	2	\$10.00
RP802	D	1.2	1.2 Ah	2	\$10.00
RP803	N	1.2	-	2	\$10.00
RP804	9 V	9.0	80 mAh	1	\$10.00



SOUND ACTUATED SWITCH

An electronic sound actuated switch that turns "on" with a sound and "off" with the occurrence of a second sound. Intended for use with a relay for heavy loads. Condensor microphone included. Sensitivity control.

- ° 6 VDC
 - ° 55 MA
 - ° Output: 6 VDC, 30 MA
 - ° Board: L. 3", W. 2 3/4", T. 1"
- SA300 \$8.95

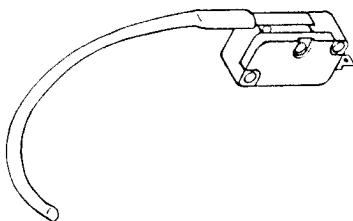


REED PROXIMITY SWITCH

A magnetically actuated switch that offers long life and high reliability. Switch is closed when magnet comes within 5/8" of switch. Epoxy packaged, ready for mounting. Mountable/operable in any position.

- ° Contacts: .5 Amp/100 VDC
- Proximity Switch
- RP242 \$4.60
- Magnetic Actuator
- RP243 \$5.50

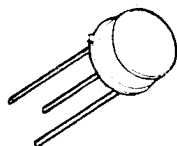
SWITCH ASSEMBLIES



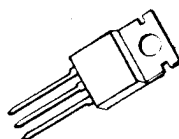
BUMPER WITH SWITCH

A 6 inch semi-rigid, curved plastic tube affixed to a normally open micro-switch. Use for external robot bumpers and limit switches. Solder terminals. 2- .156" mounting holes.

SA200 \$2.50



TO-39



TO-220

LOGIC LEVEL MOSFET's

These state-of-the-art MOSFET's are an ideal solution for high current interface problems to standard computer logic. These transistors are specifically selected for maximum efficiency in robotic drive applications. Very low "on" resistance. Can be driven directly with logic-level signals.

$I_D = 2 \text{ Amp}$ $I_D = 12 \text{ Amp}$

$V_{DSS} = 50 \text{ Volt}$ $V_{DSS} = 80 \text{ Volt}$

$P_D = 8.33 \text{ Watt}$ $P_D = 75 \text{ Watt}$

$R_{DS} = .8 \text{ Ohm}$ $R_{DS} = .2 \text{ Ohm}$

TO-39 Pack TO-220 Pack

RP360 . \$4.20 RP361 . \$3.90



VINYL SHEETING

Self adhesive leather-like vinyl sheets. Use for finishing the exterior of robots. Each sheet measures 13" X 24".

Textured black finish.

RP720 \$4.50

BATTERY CHARGER

A generic charger for recharging nickel-cadmium batteries on page 16.

4-"AA", 2-"C" or 2-"D"

batteries. 110 VAC operation.

SA310 \$11.00

RUBBER BUMPERS

Self adhesive round rubber bumpers. 8 bumpers per strip. Each strip measures 3/8" X 4". Sold in sheets of 2 strips (16 bumpers).

RP730 \$1.00

GEAR GREASE

Small tubs of grease for gears, pulleys, etc. Sold in packages of 2.

RP700 \$.60

PHONE IN YOUR ORDER:

1-507-281-5858



SPHERICAL WHEEL

This unique wheel is a large ball mounted on two ball bearings. Ideal for an idler wheel in robots used in rough terrain.

° Wheel diameter: 3 1/2"

° Shaft diameter: 5/16"

RP502 \$17.50



NYLON VELCRO FASTENERS

Velco tape consists of two mating tapes. One tape with tiny hooks mates to the other tape with tiny loops. When pressed together these tapes form a secure closure that is adjustable and highly versatile. Strips are easy to cut and can be stiched, stapled or glued and adhere to almost any type of material including metal. Can be opened and closed 1000's of times.

° Color: Black

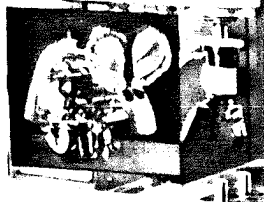
° Width: 1"

° Length: 12" hook/12" loop

RP740 \$3.75

ROBOTS & ROBOTOLGY

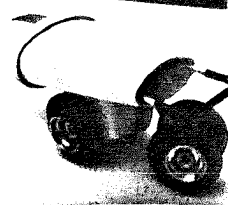
BY R. H. WARRING



BUILD YOUR OWN WORKING ROBOT

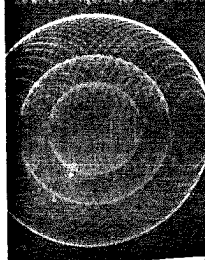
BY DAVID L. WEISBERG

Get step-by-step instructions on how to build a robot and learn the characteristics from ready-to-use building parts.

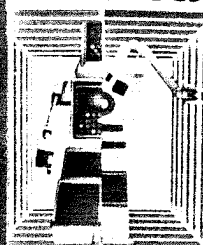


ROBOT INTELLIGENCE with experiments

Getting started in working with artificial robots and how to work with your own computer.



HANDBOOK OF ADVANCED ROBOTICS



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A state-of-the-art overview of robot technology that provides an exciting glimpse in the past, present and future of robotics design and technology. Covers some actual uses for these "intelligent" machines. Paperback.
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Details ways a relatively simple home computer system can function in both Alpha and Beta class intelligence levels. The author explores this fascinating field through experiments rather than complex theory. Paperback.
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HOW TO DESIGN AND BUILD YOUR OWN CUSTOM ROBOT

All the how-to's for creating a parabol and Alpha and Beta class robots in a ordinary home workshop. Includes over-the-shoulder instructions, complete diagrams and schematics plus plenty of data on 8085 and Z80 microprocessors. Paperback.
RD103 \$12.95

HOW TO BUILD YOUR OWN SELF-PROGRAMMING ROBOT

Complete hands-on guide to using the 8085 micro-processor to build Rodney, a robot capable of thinking and learning. This amazing little robot can pick up signals and stimuli from his environment and develop perceptions. Paperback.
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ROBOT INTELLIGENCE ...WITH EXPERIMENTS

Examine robot "thinking" on a home computer, get responses in a fraction of time needed by a "hardware" robot. Shows, in a project oriented format how to get three progressively higher classes of programming response. Alpha-1 BASIC, Alpha-2, Beta-1 BASIC, Beta-2, Gamma-1, and Gamma-2 are explained in detail. Paperback.
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How to design and build ANY kind of robot. Plus, how to interface robots with computers for any purpose. Includes full how-to-do information. An ideal guide for anyone wanting to build his own robot. Paperback.
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How to construct a robot and program it with details on building navigation (Soniscan) a self-recharging system (Excom), hearing and language system (Frdian), and even a system that makes the robot "talk" (Audigen). Shows how all this can be done with the 8085 as the robot brain. Paperback.
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All the how-to's for making a computer "think". Details on robotics and game playing programs that illustrate and describe specific circuits, problems, searches and accomplishments. It's a guide to artificial intelligence programming. Paperback.
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Step-by-step instructions on how to build "Buster" the most unusual pet in the world. Includes plans, schematics, logic circuits and wiring diagrams for constructing a robot from readily available electronic parts and components. Built in phases, "Buster" becomes more and more sophisticated. Paperback.
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1-507-281-5858

VID COMM III
 Robotics Division
 1121 6th Street NW
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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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Rochester, MN 55901

Please use the order form and pre-addressed envelope provided, if available.

By Phone: Phone your order in by dialing:

1-507-281-5858

Please fill out an order form for reference before calling. Have your Visa or Master Card available when calling.

Hours: 9:00 AM to 8 PM (Central). Monday - Saturday.

Payment: Money order, Visa, Master Card, C.O.D., check. All orders paid by check will be held until the check clears the bank (usually 30 days). Please do not send cash through the mail.

Sales Tax: 6% tax must be charged on all orders shipped to Minnesota.

Pricing: All prices are subject to change.

Availability: Some quantities are limited. All items are subject to prior sale.

Returns: All returns due to customer error will be subject to a 15% restocking charge. No returns after 30 days from our invoice date. All returned products must be in original packing and be suitable for resale.

SHIPPING INFORMATION

Fee: Please enclose 5% of the total order amount for shipping and handling (\$1 minimum).

Insurance: Please enclose \$.50 if you wish the package to be insured. We are not responsible for non-insured packages.

Carrier: All shipments will be made via UPS.

Shortage/ All claims must be made within ten (10) days

Damage: after receipt of package.

Delays: We normally ship most items within ten (10) days of order receipt. Occasionally an item is out of stock and must be reordered, this generally takes 2-4 weeks. If your order is shipped after a delay of more than 30 days, without prior agreement, you may return it for a full refund, including shipping.

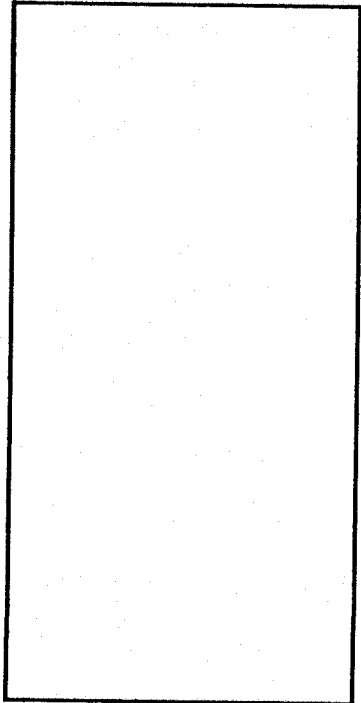
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Please see our enclosed warranty card.

VID COMM III ENTERPRISES INC.
Robotics Division
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