

LEGO Technic Motorized Hauler

Motorized LEGO™ Power Functions including tipping trailer bed, working articulated steering, independent rear suspension and an opening engine cover. It can go anywhere and haul anything, no matter the obstacle or challenge.



NEW
MARKED IN PINK

- Rebuilds into a flatbed
- 16" (40cm) long
- Difficulty level: intermediate
- Features tipping trailer bed and independent rear suspension
- Ages: 9-16

Includes: Power functions motor and battery box

Requires: 6 AA batteries (not included, recommend P/N 198707, pg 149)

Part No.	Mfr. Part No.	No. of Pieces	Price
2117392	8264A	575	\$69.95

OWI

Robotic Arm Edge Kit

Create and take command of the Robotic Arm Edge, the new, incredibly flexible robotic arm you can build yourself. Find gadgets all around the base with its new search light and the enormous reach of the arm!



- Five switch wired controller
- Lifts 100 grams (3.5 ozs.)
- Horizontal reach of 12.6 inches
- Difficulty level: intermediate
- Base rotation of 270°
- No soldering required
- Extensive elbow range of 300°
- 187-piece kit

Requires: 4 D batteries (not included, recommend P/N 215845, pg 149)

Part No.	Mfr. Part No.	1	5
2095023	OWI-535	\$49.95	\$44.95

MONDO•TRONICS

Shape Memory Alloy Kits, Book and Accessories

A long time developer of Shape Memory Alloy products including the popular Muscle Wire® products and kits. What are Shape Memory Alloys? These unique metals are made from a combination of two or more elements that exhibit hardness and elasticity properties that change radically at distinct temperatures. After alloying and basic processing, SMAs can be formed into a shape (for example a coil spring) and then set to that shape by a high heat treatment. When cooled, they may be bent, stretched or deformed (within limits) and then with subsequent moderate heating (well below the heat setting temperature), they can recover some or all of the deformation – they move when heated!

Shape Memory Alloys have found use in everything from space missions to floral arrangement, to arterial stents for restoring blood flow to clogged arteries, to actuators for miniature robots, to cell phone antennas, orthodontic braces and even eyeglasses.

Kits

Part No.	Product No.	Description	1	5
141313	3-001	Space Wings kit	\$19.95	\$17.95
357827	3-619	Solar Space Wings kit	23.95	21.95
357528	3-102	Muscle Wire R & D kit (5 meters each of 0.050µm, 100µm LT wire; 1 meter each of 250µm Flexinol LT wire)	225.95	199.95
357641	3-136	Muscle Wire Super Sampler kit (20cm each of 037µm, 050µm, 100µm, 150µm, 250µm)	35.95	32.35
357659	3-141	Project Book Sample kit (20cm of 50µm flexinol wire; 40cm of 100µm and 150µm LT wire)	34.95	31.45
358580	3-337	Modulated Infrared Reflective Detector kit (0.9"L x 0.8"W x 0.4"H)	19.95	17.95

Book

141330	3-133	Muscle Wire Project Book, 3rd Edition	\$19.95	\$17.95
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Wires and Springs

357798	3-401	Nitinol SMA wire (1 meter L x 500µm Dia.)	\$16.95	\$15.25
357801	3-402	Nitinol SMA wire (1 meter L x 100µm Dia.)	29.95	26.95
357835	3-462	Nitinol tension springs (4pk.) 6mm OD x 750µm	45.95	41.35
357843	3-657	Nitinol compression springs (4pk.) 8mm OD x 950µm	45.95	41.35



141313



357528



357641



358580



357798



357835



357843

MONDO•TRONICS

Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

How it works... Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

Includes: Instructions



★ Web Code: WAU

Part No.	Mfr. P/N	Length (meter)	Wire Dia. (microns)	Linear Resistance (Ω/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
									1	5
357561	025HT	5	25	1770	20	2	7	—	\$59.95	\$53.95
357456	025LT	1	25	1770	20	2	7	—	22.95	19.95
357931	075LT	1	75	200	100	815	80	40	17.95	15.95
357595	100HT	1	100	150	180	28	150	43	17.95	15.95
141321	100LT	1	100	150	180	28	150	33	17.95	15.95
357472	100LT	5	100	150	180	28	150	33	66.95	59.95
141874	150LT	1	150	50	400	62	330	20	17.95	15.95
160055	375LT	1	375	8	2750	393	2000	4	22.95	20.95
357712	375HT	1	375	8	2750	393	2000	5	22.95	20.95

* Multiply by 0.0098 to get force in Newtons ** Cycles per minute, in still air, at 20° Centigrade

FPNI Vector 2X Compass Module

- Pin selectable BCD or binary output format (compatible with Motorola SPI and National Microwire)
- 2° accuracy, 1° resolution
- 3-wire serial output format
- Raw uncalibrated magnetometer output optional
- Hard iron calibration
- Master or slave capability for data clock generation
- 5Hz sampling rate



Part No.	Description	1	5
126703	Compass module	\$39.95	\$34.95

For more Sensors & Modules, see pg 194

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