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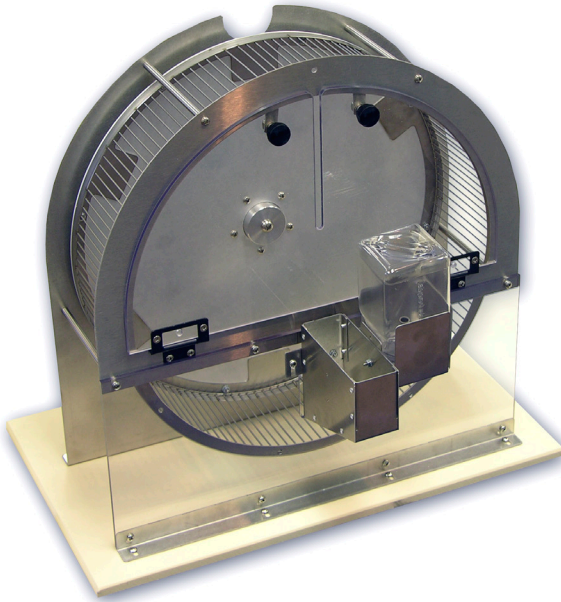
Models 80860A

80860W

80860M

Tethered Activity Wheels

User Instructions



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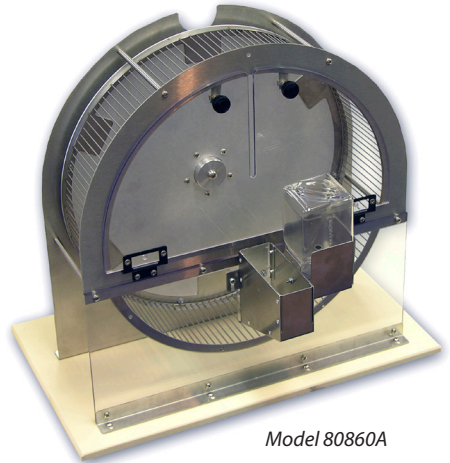
Motorized Tethered Rat Wheel Model 80860A

Tethered Rat Wheel without Motor Model 80860W

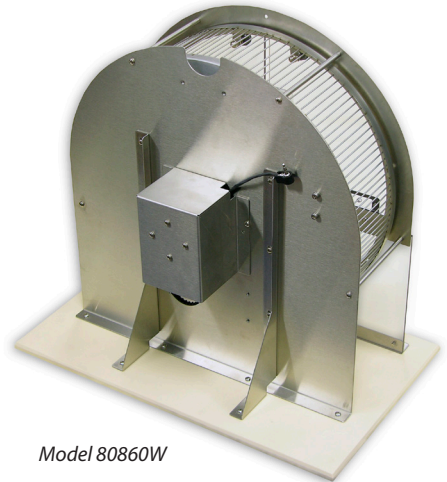
Wheel Motor Model 80860M

The Tethered Rat Activity Wheel features durable construction from stainless steel and polycarbonate components. The motorized unit uses a non-slip shock absorbing drive belt for forced exercise that is easily removed for free running data collection. The fold down side provides easy placement and removal of the tethered animal. The narrow side slot will accommodate a drug line or electrode cable connected to a standard swivel or commutator (tethers, swivels, and commutators sold separately).

These systems also incorporate ad lib access to both food and water to allow for the animal's well being. A stainless steel waste pan and water bottle with sipper tube are included. An optional brake Model 86070-B1 is also available for use with the wheel in a free wheeling setup. The motorized wheel and/or optional brake must be used with Model 86070A Counter and Controller. Motor and Brake can not be used simultaneously. The Tethered Rat Wheel without Motor may be used with Model 86060A Counter with Digital Display or Model 86061 Counter for Computer Interface Only.



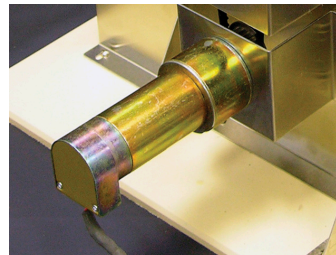
Model 80860A



Model 80860W

Specifications

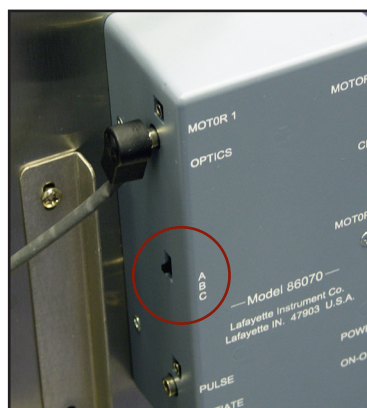
- **Dimensions:** 18" x 14" x 10"
- **Wheel Diameter:** 14.0"
- **Wheel Width (internal):** 4.3"
- **Run Distance:** 1.10 meters per revolution
- **Weight:** 7 lbs.
- **Speed:** 1 - 25 m/min in 0.5 m/min increments



Model 80860M

Options

- Activity Wheel Counter and Control, Model 86070A
- Activity Wheel Counter with Digital Display, Model 86060
- Activity Wheel Counter Only, Model 86061
- Activity Wheel Monitor Starter Interface with AWM Software, Model 86056A
- 7' Interface Connection Cable for Model 86060, Model 86051-7
- 14' Interface Connection Cable, Model 86051-14



Cage Selector Switch is denoted by a red circle.

Cage Selector Switch

Connect the wheel sensor cable and the motor cable to the 86070A Counter as described in the instructions provided with that unit. When used with Model 86070A counter, set the counter switch position to "A" for Model 80840, and position "C" for Model 80860A.

Setup Instructions for forced running

1. Take off the gear cover from the housing.
2. Check to make sure the drive belt is placed around the shaft gear, and replace the gear cover.
3. Place the motor gear around the drive belt and secure the motor to the housing using the provided screws.
4. Check the belt tension; make sure the belt will not slip on either gear. There should be approximately 1/8" - 1/4" deflection in the drive belt.

Setup Instructions for free running

1. Take off the gear cover from the housing.
2. Loosen the four screws holding the motor bracket to the wheel. Lift the motor and remove the drive belt from around both gears.
3. Replace the gear cover and tighten the screws holding the motor bracket to the wheel.

Wheel Parts Diagram

FEEDER ASSEMBLY
 HIGH UP ON FEEDER
 SECURE WITH ONE FASTENER

BELT GUARD NOT VIEW FOR CLARITY

WHEEL RINGS OMITTED FOR CLARITY

WASTE PAN OMITTED FROM SIDE VIEWS FOR CLARITY

NO.	P/N	QTY.	DESCRIPTION	NO.	P/N	QTY.	DESCRIPTION
12	1-220-0028	1	SWAYT	28	1-220-0046	1	REAR BEARING MOUNT
13	1-220-0029	1	WHEEL MOUNTING HUB	29	1-220-0043	1	WHEEL HUB PANEL
14	1-220-0030	1	FEEDER HOUSING	30	4-372-004	1	18 TOOTH GEAR HUB
15	1-220-0031	2	FEEDER SIDE PANEL	31	4-352-024	1	MOTOR BELT
16	1-220-0045	1	FEEDER BOTTLE HOLDING BRACKET	32	4-352-016	1	MOTOR BELT
17	1-220-0047	1	FEEDER BOTTLE HOLDING BRACKET	33	4-221-309	1	ROLLIN BEARING (1/2" LONG)
18	1-220-0048	1	FEEDER BOTTLE HOLDING BRACKET	34	4-221-309	1	ROLLIN BEARING (1/2" LONG)
19	1-220-0033	1	BELT GUARD	35	869065	1	SENSOR
20	4-137-007	1	WATER BOTTLE	36	4-134-034	2	HINGE
21	4-137-003	1	WATER BOTTLE CAP	37	4-132-043	1	PLASTIC KNOB
22	4-137-012	1	SHIPPER TUBE	38	3-383-026	1	CONNECTION CABLE
23	1-13305	2	DOOR LATCH	39	4-135-039	1	3/8" DIA. HEAT SHRINK (1-1/4")
24	1-204-0029	2	SPACKER RING	40	4-221-102	5	3/8" DIA. HEAT SHRINK (1-1/4")
25	1-218-0075	4	MODIFIED 28 TOOTH GEAR HUB	42	4-221-117	10	#10 FLAT WASHER
26	1-204-0034	4	WASTE PAN	43	4-222-078	2	NYLON FLAT WASHER
27	1-219-0076	1	WASTE PAN	44	4-221-246	12	POE RING
				45	4-211-015	5	#10-32 DUSTIE NUT
				46	4-212-088	3	#8-32 x 1/4" PAN HD. SCREW
				47	4-212-083	17	#8-32 x 3/8" PAN HD. SCREW
				48	4-212-083	5	#8-32 x 3/8" PAN HD. SCREW
				49	4-212-083	1	1/4-20 x 3/8" PAN HD. SCREW
				50	4-212-030	1	1/4-20 x 1/2" PAN HD. SCREW
				51	4-212-085	4	#6-32 x 1/8" FLAT HD. SCREW
				52	4-212-038	2	#10-32 x 1/2" PAN HD. SCREW
				53	4-212-110	1	#4-40 x 1/2" PAN HD. SCREW
				54	4-211-008	11	#4-40 KEP NUT
				55	-	-	LOCITITE 990

NO.	P/N	QTY.	DESCRIPTION
1	1-220-0037	1	BASE PANEL
2	1-220-0039	1	WHEEL MOUNTING BRACKET
3	1-220-0035	2	SWAYT MOUNTING BRACKET
4	1-220-0036	1	FRONT PANEL
5	1-220-0036	1	FRONT PANEL
6	1-220-0040	1	FRONT DOOR BRACKET
7	1-220-0044	1	FRONT DOOR PANEL
8	1-220-0041	1	MOTOR MOUNTING BRACKET
9	5-219-0088	1	MODIFIED WHEEL ASSEMBLY
10	1-220-0042	1	ENCODER DISK
11	1-220-0027	1	FRONT BEARING MOUNT

ORANGE CUT
YELLOW CUT
BROWN CUT
PURPLE CUT
RED CUT
BLACK CUT
GREEN CUT
RED MOTOR
BLACK MOTOR
RED ENCODER
BLACK ENCODER

Cleaning

General Care

- Check daily to see that the wheels are spinning properly and are free of debris.
- Keep electronics covered to keep them free of dust.
- Check regularly to see that all screws are tight.

Cleaning Instructions

- Unplug any electronics from the unit.
- Disassemble the system so that the wheel is separate from the assembly.
- The aluminum wheels can be washed in an automatic cage washer. For model 80852, the guillotine door should be secured or removed before going into the cage washer to prevent it from bending. The wheels can also be hand washed with soap and water or wiped down with a 70% ETOH solution.
- All other parts can be washed in an automatic cage washer or hand washed with either soap and water or wiped down with a 70% ETOH solution.

User Notes

Place any user notes here as a convenience.

Terms and Conditions

LIC Worldwide Headquarters

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Phone, Fax, Email or Mail-in Orders

All orders need to be accompanied by a hard copy of your purchase order. All orders must include the following information:

- Quantity
- Part Number
- Description
- Your purchase order number or method of pre-payment
- Your tax status (include tax-exempt numbers)
- Shipping address for this order
- Billing address for the invoice we'll mail when this order is shipped
- Signature and typed name of person authorized to order these products
- Your telephone number
- Your email address
- Your FAX number

Domestic Terms

There is a \$50 minimum order. Open accounts can be extended to most recognized businesses. Net amount due 30 days from the date of shipment unless otherwise specified by us. Enclose payment with the order; charge with VISA, MasterCard, American Express, or pay COD. We must have a hard copy of your purchase order by mail, E-mail or fax. Students, individuals and private companies may call for a credit application.

International Payment Information

There is a \$50 minimum order. Payment must be made in advance by: draft drawn on a major US bank; wire transfers to our account; charge with VISA, MasterCard, American Express, or confirmed irrevocable letter of credit. Proforma invoices will be provided upon request.

Exports

If ordering instrumentation for use outside the USA, please specify the country of ultimate destination, as well as the power requirements (110V/60Hz or 220V/50Hz). Some model numbers for 220V/50Hz will have a "C" suffix.

Quotations

Quotations are supplied upon request. Written quotations will include the price of goods, cost of shipping and handling, if requested, and estimated delivery time frame. Quotations are good for 30 days, unless otherwise noted. Following that time, prices are subject to change and will be re-quoted at your request.

Cancellations

Orders for custom products, custom assemblies or instruments built to customer specifications will be subject to a cancellation penalty of 100%. Payment for up to 100% of the invoice value of custom products may be required in advance. Cancellation for a standard Lafayette Instrument manufactured product once the product has been shipped will normally be assessed a charge of 25% of the invoice value, plus shipping charges. Resell items, like custom products, will be subject to a cancellation penalty of 100%.

Exchanges and Refunds

Please see the cancellation penalty as described above. No item may be returned without prior authorization of Lafayette Instrument Company and a Return Goods Authorization (RGA#) number which must be affixed to the shipping label of the returned goods. The merchandise should be packed well, insured for the full value and returned along with a cover letter explaining the reason for return. Unopened merchandise may be returned prepaid within thirty (30) days after receipt of the item and in the original shipping carton. Collect shipments will not be accepted. Product must be returned in saleable condition, and credit is subject to inspection of the merchandise.

>Returns

Instrumentation may not be returned without first receiving a Return Goods Authorization Number (RGA). When returning instrumentation for service,

please call Lafayette Instrument to receive a RGA number. Your RGA number will be good for 30 days. Address the shipment to:

Lafayette Instrument Company

3700 Sagamore Parkway North

Lafayette, IN 47904, USA.

Shipments cannot be received at the PO Box. The items should be packed well, insured for full value, and returned along with a cover letter explaining the malfunction. An estimate of repair will be given prior to completion ONLY if requested in your enclosed cover letter. We must have a hard copy of your purchase order by mail or fax, or repair work cannot commence for non-warranty repairs.

Damaged Goods

Damaged instrumentation should not be returned to Lafayette Instrument prior to a thorough inspection. If a shipment arrives damaged, note damage on delivery bill and have the driver sign it to acknowledge the damage. Contact the delivery service, and they will file an insurance claim. If damage is not detected at the time of delivery, contact the carrier/shipper and request an inspection within 10 days of the original delivery. Please call the Lafayette Instrument Customer Service Department for repair or replacement of the damaged merchandise.

Limited Warranty

Lafayette Instrument Company warrants equipment manufactured by the company to be free of defects in material and workmanship for a period of one year from the date of shipment, except as provided hereinafter. The original manufacturer's warranty will be honored by Lafayette Instrument for items not manufactured by Lafayette Instrument Company, i.e. resell items. This assumes normal usage under commonly accepted operating parameters and excludes consumable products.

Warranty period for repairs or used instrumentation purchased from Lafayette Instrument is 90 days. Lafayette Instrument Company agrees either to repair or replace, at its sole option and free of part charges to the customer, instrumentation which, under proper and normal conditions of use, proves to be defective within the warranty period. Warranty for any parts of such repaired or replaced instrumentation shall be covered under the same limited warranty and shall have a warranty period of 90 days from the date of shipment or the remainder of the original warranty period whichever is greater. This warranty and remedy are given expressly and in lieu of all other warranties, expressed or implied, of merchantability or fitness for a particular purpose and constitutes the only warranty made by Lafayette Instrument Company.

Lafayette Instrument Company neither assumes nor authorizes any person to assume for it any other liability in connection with the sale, installation, service or use of its instrumentation. Lafayette Instrument Company shall have no liability whatsoever for special, consequential, or punitive damages of any kind from any cause arising out of the sale, installation, service or use of its instrumentation. All products manufactured by Lafayette Instrument Company are tested and inspected prior to shipment. Upon prompt notification by the Customer, Lafayette Instrument Company will correct any defect in warranted equipment of its manufacture either, at its option, by return of the item to the factory, or shipment of a repaired or replacement part. Lafayette Instrument Company will not be obliged, however, to replace or repair any piece of equipment, which has been abused, improperly installed, altered, damaged, or repaired by others. Defects in equipment do not include decomposition, wear, or damage by chemical action or corrosion, or damage incurred during shipment.

Limited Obligations Covered by this Warranty

1. In the case of instruments not of Lafayette Instrument Company manufacture, the original manufacturer's warranty applies.
2. Shipping charges under warranty are covered only in one direction. The customer is responsible for shipping charges to the factory if return of the part is required.
3. This warranty does not cover damage to components due to improper installation by the customer.
4. Consumable and/or expendable items, including but not limited to electrodes, lights, batteries, fuses, O-rings, gaskets, and tubing, are excluded from warranty.
7. Failure by the customer to perform normal and reasonable maintenance on instruments will void warranty claims.
8. If the original invoice for the instrument is issued to a company that is not the company of the end user, and not an authorized Lafayette Instrument Company distributor, then all requests for warranty must be processed through the company that sold the product to the end user, and not directly to Lafayette Instrument Company.

Export License

The U.S. Department of Commerce requires an export license for any polygraph system shipment with an ULTIMATE destination other than: Australia, Japan, New Zealand or any NATO Member Countries. It is against U.S. law to ship a Polygraph system to any other country without an export license. If the ultimate destination is not one of the above listed countries, contact us for the required license application forms.