



E85806-00
E85807-00



DM1400T & DM1800T

14" and 18"
Upright Vacuum



*Telescoping
wand feature*



*Onboard
tool kit*



*Optional
HEPA filter
available*

**Operator and Parts
Manual**

This manual is furnished with each new model. It provides necessary operating and preventive maintenance instructions. Read this manual completely and understand the machine before operating or servicing it. This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

- The machine is operated with reasonable care.
- The machine is maintained regularly - per the maintenance instructions provided.
- The machine is maintained with approved parts.

Parts and supplies may be ordered by phone or mail from any parts and service center, distributor or from any of your representative subsidiaries.

A complete illustrated parts list is supplied with this machine, use this list to order parts. Before ordering parts or supplies, be sure to have your machine model number and serial number handy.

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SAFETY PRECAUTIONS

The following expressions are used throughout this manual as indicated in their description:

WARNING: To warn of hazards or unsafe practices which could result in severe personal injury or death.

FOR SAFETY: To identify actions which must be followed for safe operation of equipment.

USAGE

This machine is suited to pick up dirt and dust in an indoor environment and is not constructed for any other use. The pick up of any liquid or dangerous type of dust is unsuitable and therefore usage of this type is not allowed.

The following information signals potentially dangerous conditions to the operator or equipment. Know when these conditions can exist. Locate all safety devices on the machine. Then, take necessary steps to train machine operating personnel. Report machine damage or faulty operation immediately.

Do not use the machine if it is not in proper operating condition.

FOR SAFETY

1. Do Not Operate, Maintain, or Service Machine:
 - Unless Trained And Authorized.
 - Unless Operation Manual Is Read And Understood.
 - With Damaged Cord Or Plug.
2. When Using Machine:
 - Do Not Pick Up Live Ashes Or Cigarette Butts.
3. Before Leaving Or Servicing Machine:
 - Turn Off Machine And Unplug Power Cord From Outlet.

WARNING:
Hazardous Voltage. Shock Or Electrocutation Can Result. Unplug Power Cord Before Working On Machine.

WARNING:
Do not store outdoors and avoid getting wet by rain etc.

WARNING: The use of attachments other than those recommended and supplied by the manufacturer may be hazardous.

GENERAL INSTRUCTIONS

Throughout this book references are made to figure numbers. These figures can be found on the page at the end of this manual.

MACHINE COMPONENTS

Refer to fig. 1

1. Handle
2. Option mount
3. Full Bag Light
4. Main Power Switch
5. Door Latch
6. Bag Housing
7. Release Handle
8. Electronic Display
9. Handle Pivot
10. Brush Housing
11. Power Brush Housing
12. Hose
13. Upper Cord Hook
14. Power Cord
15. Wand
16. Transport Handle
17. Thumb Nut
18. Base Inlet Connector
19. Cord Pigtail
20. Rear Wheel

Note: The italicized words in the following sections refer to items in the MACHINE COMPONENTS list. These are only italicized the first time they appear.

INSTALLATION

Carefully check carton for signs of damage. Report damages at once to the carrier.

Unpack the machine and check machine for completeness according to the packing list. Check whether the cord plug installed corresponds to your wall outlet. Complete the machine:

1. Install *handle* by sliding it into the opening in the top of the *bag housing* until it bottoms out. Install and tighten with the M5 thumbscrew.
2. Install the *hose* by pushing one end into the top of the bag housing. Push the other end into the *wand*.
3. Position the open end of wand over the opening of the *power brush housing* and while referring to figure 2 push the *wand* into the sleeve in the back of bag housing until it snaps into the notch (see arrow in figure 2).
4. Make sure the dust bag is installed. For instructions refer to the DUST BAG REMOVAL AND INSTALLATION.

5. Snap the upholstery tool and crevice tool into the *option mount*.
6. Plug the *cord pigtail* into the outlet at the back of the vacuum housing.

PLACING POWER CORD

According to your preference you can place the power cord on the machine in two ways:

1. Coil the cord (starting at the machine side to prevent cord turns) and hang it on the *upper cord hook*.
2. Wrap cord around the *upper* and *lower hooks*.

MACHINE OPERATION

NOTE: This machine is suitable for voltages from 220 - 240V AC/50 Hz.

PRE OPERATION CHECKS

1. Check to ensure a dust bag is installed. Replace bag if needed.
2. Check brush area for any thread, string or debris that may be wrapped around the brush.

UPRIGHT CARPET VACUUM CLEANING

1. Plug the power cord into a receptacle.
2. Adjust the brush height knob to suit the carpet thickness you are going to clean. The carpet indicator shows its position (1-4). Refer to figure 3.
3. Turn the *main power switch* on. The vacuum fan motor will turn. Refer to figure 4.
4. While holding the handle depress the red *release handle* pedal (refer to figure 5) and lower the handle to a convenient operating position. When the handle is lowered the brush motor will start turning.

5. Clean the floor using normal vacuuming procedure.

REMOTE VACUUM WAND CLEANING

1. Keep machine in a stable position, preferably an upright position.
2. Plug in the power cord and switch on the machine as described in the UPRIGHT CARPET VACUUM CLEANING.

3. Remove the wand by snapping it out of the retainer clip and pulling it from its inlet. The brush motor will stop automatically when the wand is removed.
4. Attach your choice of either the upholstery or crevice tool to the wand and clean as you like.
5. When finished cleaning replace the tool and wand to their storage positions. Make sure the wand fits tightly into the base inlet so it will not leak. Refer to figure 2.

THE DUST BAG FULL INDICATOR

1. Your machine has a red *full bag* light which will come on when the airflow is obstructed indicating the dust bag is full.
2. If the light comes on switch off the machine, unplug the cord and check the dust bag. Replace the bag when it is full. For instructions see the DUST BAG REMOVAL AND INSTALLATION.
3. If the light comes on and the dust bag is not full there is an obstruction somewhere in the system.

DUST BAG REMOVAL AND INSTALLATION
(Refer to figure 6).

1. Open the bag housing by pushing on the *door latch*. Fold the ends of the dust bag together and carefully remove the bag. Dump the bag in a disposal container.
2. Always install a new dust bag directly after removing a full one.
3. To install the new dust bag, push the bag onto the inlet of the fan motor as far as it will go. Fold the top down so it will not interfere with the door latch.
4. Close the door ensuring that it latches properly.

ROUTINE CARE AND MAINTENANCE

The maintenance should be carried out by authorised maintenance personnel only. Every year the machine should be safety certified according to local safety standards (UVV). Contact your dealer for the most adequate and best service.

WARNING: Hazardous Voltage. Shock or Electrocution Can Result. Unplug Power Cord Before Working On Machine.

The machine exterior should be cleaned once a week with a dust towel. A damp towel together with a mild detergent may be used.

DO NOT USE WATER.

Every week

Inspect and clean the filter at the vacuum motor inlet.

Every month

Inspect brush for wear. If brush strips no longer touch the carpet they have to be replaced.

Every year

The carbon brushes in the vacuum and brush motor have to be inspected for wear.

The vacuum cleaner is equipped with an electronic power brush alert: two lights - GREEN and RED. Refer to figure 7.

GREEN LIGHT:

Lower Brush operates properly.

RED & GREEN LIGHT:

Brush drive belt broken.
Refer to Trouble Shooting.

RED LIGHT:

Brush rotation obstructed.
Refer to Trouble Shooting.

These lights alert the operator of problems which must be corrected immediately. Monitor these lights during operation.

THERMAL OVERLOAD

The internal temperature of the vacuum motor is sensed at all times. When the temperature gets too high the sensor shuts off the vacuum motor. Inspect the machine for any air obstruction. The sensor will reset automatically when the sensor and electric motor have cooled sufficiently. The motor can then be re-started.

CLEANING OR REPLACING INLET FILTER
(Refer to figure 8)

1. Remove the dust bag.
2. Snap the filter retainer from its fitting.
3. Remove the filter and clean by shaking or vacuuming.

Note: Replace the filter if worn or not cleanable.

4. Replace filter in the retainer and snap it into place.

5. Replace dust bag.

CAUTION: Do not operate the vacuum without the inlet filter in place.

REPLACING BRUSH
(Refer to figure 9)

1. Remove the screw holding the brush access plate and remove plate.
2. Grasp the brush strip and slide it out of the brush extension.
3. Replace the strip with a new one and slide it into place.
4. Replace the access plate and install the screw.

STORAGE INFORMATION

The machine may be stored in any dry area. The machine may be parked either in a horizontal or an upright position.

WARRANTY

The manufacturer warrants to the original purchaser that products manufactured are free from defects of workmanship and material, provided such goods are installed, operated and maintained in accordance with the written manuals or other instructions.

In case you, as our customer, encounter any trouble with your machine contact your representative who will be obliged to be of service to you and will take care of the warranty settlement.

Your representatives are able to service you with detailed warranty conditions as well as periodic maintenance contracts.

NOTE: Alterations and charges made to the machine without written approval and use of unapproved spare parts will not be covered by warranty.

SPECIFICATIONS

Item	Dimesion/Capacity	
	360 mm	460 mm
Lenght	260 mm	260 mm
Width	360 mm	460 mm
Height	1200 mm	1200 mm
Weight	10 kg	10,5kg
Brush width	310 mm	410 mm
Sweeping path	310 mm	410 mm
Powercord length	10 M	10 M
Brush motor	0.7 A	1A
Vacuum motor	3.7 A	3.7 A
Filter bag	5.7L	5.7L

TROUBLE SHOOTING

Vacuum motor is off.	Machine unplugged.	Plug the machine in.
	Switch in off position.	Switch on machine.
	Sensor temperature too high.	Check for air obstruction. Let the motor cool down.
	Faulty switch.	Replace switch. Request service call.
Brush motor is off.	Machine unplugged.	Plug the machine in.
	Brush switch off.	Switch brush on.
	Wand not installed correctly.	Re-install wand.
RED LIGHT ON.	Brush motor obstructed.	Unplug machine and inspect for obstruction.
		Request service call.
RED & GREEN LIGHT ON.	Brush drive belt broken.	Request service call.
Full bag indicator flashes.	Dust bag full.	Replace dust bag.
	Hose and wand blocked.	Inspect for obstruction.
	Power brush inlet blocked.	Inspect for obstruction.
	Inlet filter blocked.	Clean or replace inlet filter.
Low suction.	Deflector port sealing in top of housing.	Check for free movement.
	Dust bag full.	Replace bag.
	Full bag indicator flashes.	See Full Bag Indicator Flashes.
	Wand not installed correctly.	Re-install wand.
Poor pick up.	Brush not adjusted correctly.	Adjust brush height knob to conform to carpet thickness (pile).
		Request service call.
	Brush worn.	Replace brush.

PLACING AN ORDER

Orders may be placed by phone, fax, or by mail. Phone orders may need written confirmation. Follow the steps below to insure prompt delivery:

1. Identify the model number of your machine.
2. Identify the serial number of your machine.
3. Find the part number of the part you need. Do not order by page number or reference number. If you are not able to find the part number, call your representative for help or send the old part as a sample.
4. Determine the quantity of the part you need.
5. Provide the following company information:
 - Company name
 - Customer ID Number
 - Shipping address
 - Billing address
 - First and last name of person ordering parts
 - Telephone number
 - Purchase order number

6. Provide definitive shipping instructions.

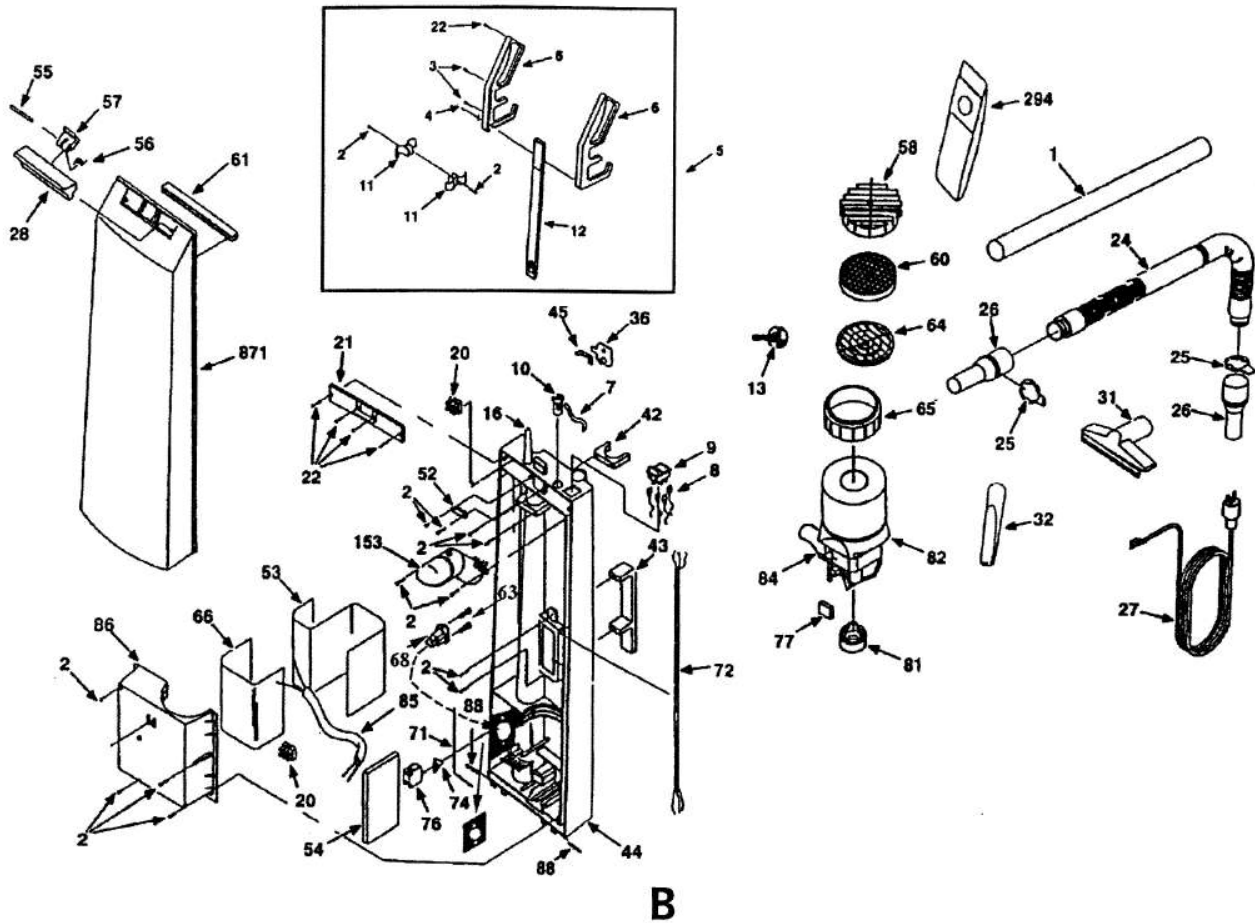
Any claim for loss or damage to a shipment in transit should be filed promptly with the transportation company making the delivery.

FINDING A PART NUMBER

The parts illustrations are numbered with **Ref** numbers which refer to corresponding parts lists. The parts lists include a number of columns of information:

- **Ref** - column refers to the reference number on the parts illustration.
- **Part No.** - column lists the part number for the part.
- **Description** - column is a brief description of the part.
- **Qty.** - column lists the quantity of that part used in that area of the machine.

DM1400/1800 Upright Vacuum Assembly

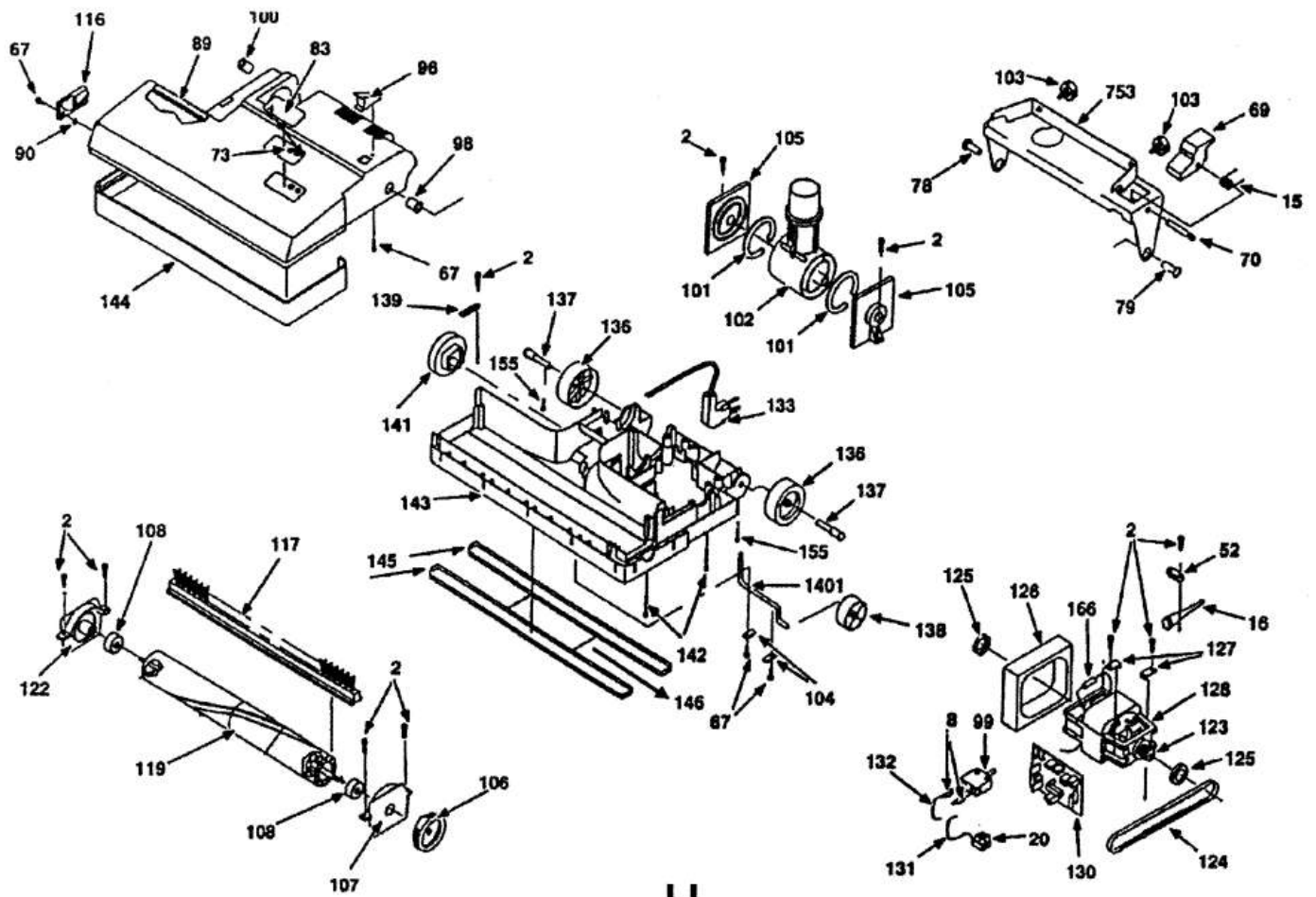


DM1400/1800 Upper Body Parts List

ITEM	SKU	Description
1	E82116	DM1400/1800 telescoping wand
2	E82095	DM1400/1800 screw
3	0000021	Screw, 3.5 x 18
4	E82094	DM1400/1800 screw 3.5 x 25
5	E82237	DM1400/1800 handle
6	E82237	DM1400/1800 handle
7	0400070	Sleeve
9	E82128	DM1400/1800 power switch
10	E82129	DM1400/1800 bag full indicator
11	E82114	DM1400/1800 tool holder
12	E82115	Handle
13	E82155	DM1400/1800 thumbscrew
16		Strain Relief N/A
20	0400200	Terminal Block
21	E82130	DM1400/1800 electric cover
22	E82093	DM1400/1800 screw 3.5 x 16
24	E82239	DM1400/1800 hose assembly
25	E82118	DM1400/1800 hose clip
26	E82215	DM1400/1800 hose cuff
27	E82228	DM1400/1800 power cord
27	0300300	Cord Set UK plug N/A
27	0300310	Cord Set CH plug N/A
28	E88098	Door Opener, Black DM1400/1800
31	E82238	DM1400/1800 dusting tool
32	E82122	DM1400/1800 crevice tool
36	0400360	Cover
42	E82132	DM1400/1800 wand locker
43	E82133	Rear Body Handle, DM1400/1800
44	E82231	DM1400/1800 rear body assembly
45	E82134	Antislip Clip
52	E82101	Cable Restrain
53	E82137	DM1400/1800 motor foam

ITEM	SKU	Description
54	E82138	DM1400/1800 vent filter
55	E88099	Shaft Locker Cover DM1400/1800
56	E88100	Spring, Door Opener DM1400/1800
57	E88101	Door Locker DM1400/1800
58	E82139	DM1400/1800 dust filter holder
60	E82140	DM1400/1800 motor vac filter, round
61	0600610	Gasket
63	E82100	DM1400/1800 screw
64	E82142	Grill. Filter
65	E82157	Gasket. Motor Upper
66	E82143	Filter, Motor, Foam
68	0400690	Receptacle 2 Pole N/A
68	E82229	DM1400/1800 receptacle, pigtail
71	E82145	DM1400/1800 front door seal
72		Cable 220-240Y N/A
72	04007210	Cable 110 V.
72	04008211	Cable 110 V. CSA
74	E82146	DM1400/1800 switch, actuator
76	E82147	DM1400/1800 on/off switch
77	0500770	RFI Suppressor
81	E82159	Gasket, Motor Lower
82	0500820	Motor, Vac 230V N/A
82	E82241	DM1400/1800 vac motor
84	0500840	Thermal Cut Out
85	0000850	Cable
86	E82151	Housing, Vac Motor
88	E82154	Shaft, Front Cover
153	E82240	DM1400/1800 paper bag mount
294	E82123	Paper Bag (10/Pkg)
871	E82232	DM1400/1800 front door ASM
	E82145	DM1400/1800 front door seal

DM1400 Brush Head Assembly



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PARTS LIST LOWER UNIT DM1400

ITEM	SKU	Description
2	E82095	DM1400/1800 screw
16	0000160	Strain Relief N/A
20	2000245	Block, Terminal
52	E82101	Cable Restrain
67	E82097	DM1400/1800 screw
69	E82161	DM1400/1800 locking pedal
70	E82162	DM1400/1800 shaft pedal
73	E82168	DM1400/1800 decal
73	1200731	Decal. LED German N/A
78	E82163	Screw short left side
79	1100790	Screw, LH
83	E82169	DM1400/1800 LED cover
89	E82233	DM1400 brush cover
90	E82106	DM1400/1800 washer
96	E82172	DM1400/1800 latch break
98	E82173	Bearing bushing long
99	E82199	DM1400/1800 switch
100	E82174	Bearing bushing short
101	1301010	Gasket
102	E82178	DM1400/1800 swivel neck
103	E82164	knob
104	E82179	Shaft fixing plate
105	E82243	Plate, Guide
106	E82202	DM1400/1800 brush driver
107	E82203	DM1400/1800 roller support
108	1701088	Bearing, Brush
116	E82175	Brush strip cover
117	E82211	DM1400 brush strip
119	E82247	Roller brush complete

ITEM	SKU	Description
122	E82213	Roller support
123	E85889	Cogged Drive
124	E86077	Drive Belt
125	1601250	Ring. Rubber
126	1601260	Foam, Brush Motor
127	E82179	Shaft fixing plate
128	E85880	Brush motor 110v
128	1601281	Motor, 220-240V N/A
130	E82201	Control, 220V N/A
130	1601304	Control, 220V N/A
130	E82201	Circuit board
133	E82227	Pigtail cord
133	1601339	Plug, 2 Pole N/A
136	E82183	Rear wheel
137	E82185	Rear caster shaft
138	E82186	Front wheel
139	E82187	Spring
141	E82245	Adjustment Knob
142	E82096	DM1400/1800 screw
143	E82236	Brush housing bottom
144	E82177	DM1400 Bumper
145	E82188	Brush protector
150	E82166	Spring
155	E88508	Screw, M3 x 16 Zinc
166	1601660	Thermal Overload
753	E82167	Bracket, Swivel
1401	E82195	Front Castor Shaft
146	E82191	Brush protector

DM1800 Brush Head Assembly

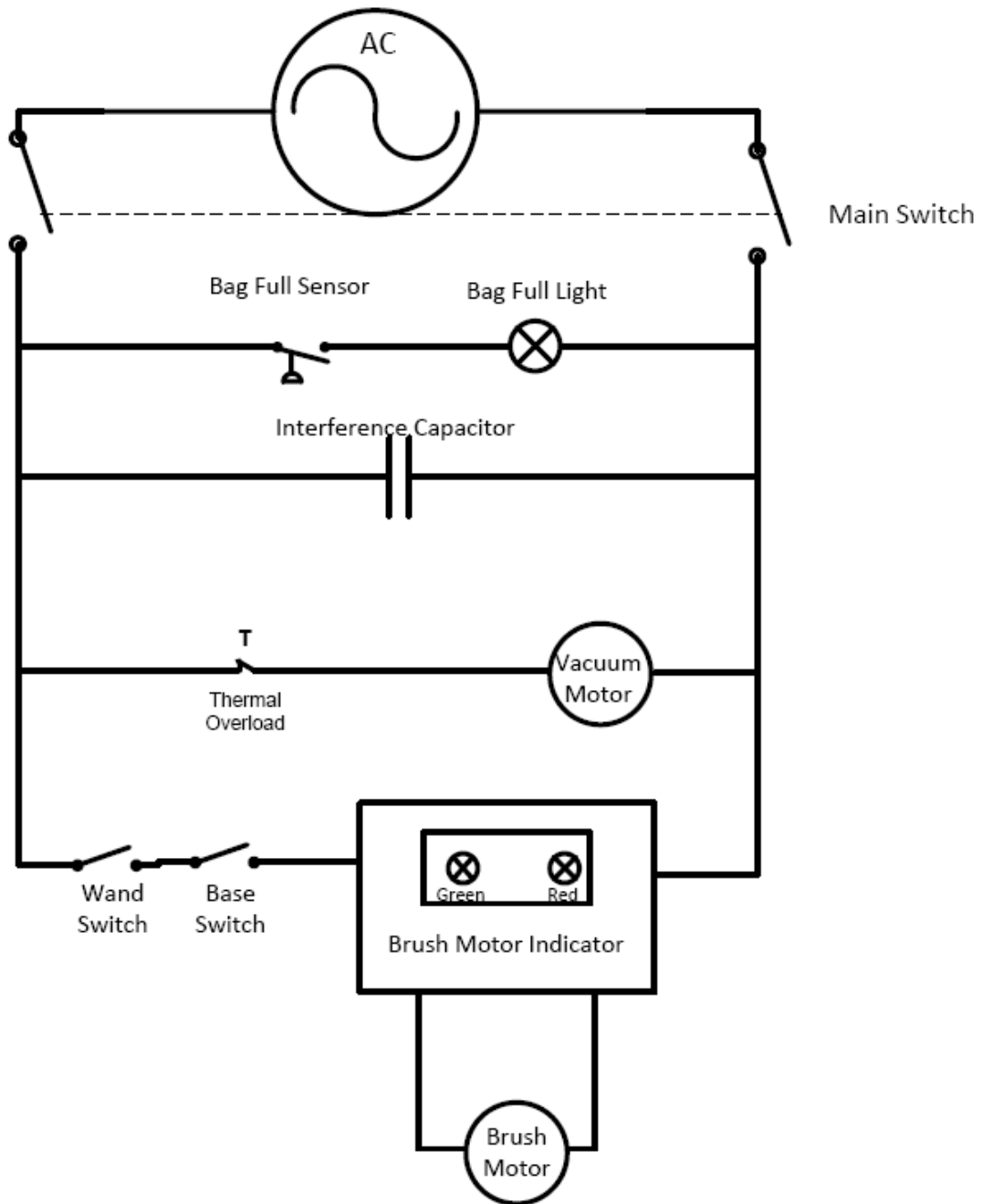


PARTS LIST LOWER UNIT DM1800

ITEM	SKU	Description
2	E82095	DM1400/1800 screw
4	E82234	Brush housing upper
16	0000160	Strain Relief N/A
18	E82176	DM1800 Bumper
20	2000245	Block,Terminal
26	E82210	DM1800 brush strip
31	E82248	Roller brush complete
32	E82197	Front Caster Shaft
37	E88086	Shaft DM1800
38	E82191	Brush Protector
52	E82101	Cable Restrain
58	E82189	Brush Housing, Lower
67	E82097	DM1400/1800 screw
69	E82161	DM1400/1800 locking pedal
70	E82162	DM1400/1800 shaft pedal
73	E82168	DM1400/1800 decal
73	1200731	Decal. LED German N/A
78	E82163	Screw short left side
79	1100790	Screw, LH
83	E82169	DM1400/1800 LED cover
89	E82233	DM1400 brush cover
90	E82106	DM1400/1800 washer
96	E82172	DM1400/1800 latch break
98	E82173	Bearing bushing long
99	E82199	DM1400/1800 switch
100	E82174	Bearing bushing short
101	1301010	Gasket
102	E82178	DM1400/1800 swivel neck
103	E82164	knob
104	E82179	Shaft fixing plate

ITEM	SKU	Description
105	E82243	Plate, Guide
106	E82202	DM1400/1800 brush driver
107	E82203	DM1400/1800 roller support
108	1701088	Bearing, Brush
116	E82175	Brush strip cover
122	E82213	Roller support
123	E85889	Cogged Drive
124	E86077	Drive Belt
125	1601250	Ring. Rubber
126	1601260	Foam, Brush Motor
127	E82179	Shaft fixing plate
128	E85880	Brush motor 110v
128	1601281	Motor, 220-240V N/A
130	E82201	Control, 220V N/A
130	1601304	Control, 220V N/A
130	E82201	Circuit board
133	E82227	Pigtail cord
133	1601339	Plug, 2 Pole N/A
136	E82183	Rear wheel
137	E82185	Rear caster shaft
138	E82186	Front wheel
139	E82187	Spring
141	E82245	Adjustment Knob
142	E82096	DM1400/1800 screw
150	E82166	Spring
155	E88508	Screw, M3 x 16 Zinc
166	1601660	Thermal Overload
753	E82167	Bracket, Swivel
146	E82191	Brush protector

DM1400/1800 Wiring Diagram



BETCO US WARRANTY POLICY

10 year coverage

Subject to the conditions stated below, Betco warrants parts and labor on rotationally molded polyethylene tanks/housings and injection molded vacuum head assemblies to be free from defects in materials and workmanship for a period of ten years to the original purchaser.

3 Year Coverage

Subject to the conditions stated below, Betco warrants parts and labor on all other Betco components to be free from defects in materials and workmanship for a period of three years to the original purchaser.

1 Year Coverage

Subject to the conditions stated below, Betco offers a limited warranty on parts and labor on the following equipment: parts and accessories to be free from defects in materials and workmanship for a period of one year to the original purchaser.

- DM Series Vacuums: #85506-00, #85507-00
- Bac Pac Lite Vacuum: #85903-00
- FiberPRO® Floor Dryer: #85507-00
- WORKMAN™ Series Vacuums: #85024-00, #85025-00, #85026-00, #85027-00
- CV100T Vacuum: #85023-00
- All Tools and Accessories
- All Battery Chargers
- All Batteries are pro-rated for 1 year

Allowable Travel Time Warranty Reimbursement:

Eligible equipment: All battery and propane powered equipment products. Warranty period: 90 days from date of sale to the original purchaser. A maximum 60 mile round trip at 44 cents per mile will be allowed for warranty consideration.

Propane Machine Warranty:

Honda engines are warranted by Honda for a period of 2 years against manufacturer defects. Kawasaki engines are warranted by Kawasaki for a period of 2 years against manufacturer defects. All other components (except wear items)* are warranted by Betco for a period of 3 years.

***Wear Items exempt from Warranty consideration include but may not be limited to: power cords, transport wheels, vacuum bags, belts, squeegee blades, pad drivers, clutch plates, handle grips, filters, screens, throttle cables, brushes and carbon brushes.**

Subject to the conditions and exceptions stated in this warranty, Betco warrants the Betco products to be free from defects in material and workmanship, under normal use and service, for the periods listed under the warranty policy to the original purchaser. At any time during the warranty period, Betco will furnish replacement parts for the Betco parts to the original purchaser. Such parts will be furnished and charged including transportation costs, to the original owner through any Betco authorized Service Distributor. If the original part is returned within the warranty policy period from date of delivery for inspection by Betco and is found to be defective the owner will be credited for the cost of replacement parts plus shipping and handling. Replacement parts that have become defective through wear or abuse are not included in this warranty.

This warranty does not apply to damage or defect caused by accident, misuse, Negligence, fire, or to any Betco product which has been serviced or repaired by other than an authorized Betco Service Distributor or Betco factory personnel. This warranty is void if products are used for any purpose other than that which was intended. There are no other warranties expressed or implied. In no event shall Betco be liable for incidental or consequential damages or any damage to person or property. (Please note some states do not allow the exclusion or limitations for incidental and consequential damages)

