

**AirCare**<sup>TM</sup>  
INDOOR AIR QUALITY SPECIALISTS

# TRUCKMASTER II

USER GUIDE





# TRUCKMASTER II



## DUCT CLEANER FOR USE WITH TRUCK MOUNT CARPET VACUUMS

**Division of D.P.L. Enterprises Inc.**

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# UNPACKING INSTRUCTIONS

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Remove the outer box and inspect for damage. Report all damage immediately to your carrier. If special set-up instructions are required, they will be taped to the outside of the equipment or in the "Operating" section of this manual.

Inspect all the packing material for small parts before discarding packaging material. Report all damage to your Carrier immediately then notify Air-Care. Any attempt at repairing suspected damages may void warranty.

## CHECK THAT ALL PARTS ARE PRESENT

### Air-Care TruckMaster II

- Air-Care TruckMaster II with High and Low power switch for Brush Motor
- Hose, 1 ½" X 35' Brush and Motor Assembly. Includes 12" Firm Pancake-Style Brush
- Universal, Wireless Remote Control (Including 2 x AAA Batteries)
- Dust Damper
- Hose Coil and Carry Strap with Handle

## SAFETY PRECAUTIONS

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Always think safety and use common sense precautions when working with Air-Care equipment. Do not block walkways with equipment and remove delicate and breakable articles from the immediate work area. The following are precautions that should be reviewed by all persons who will be involved in the cleaning activity.

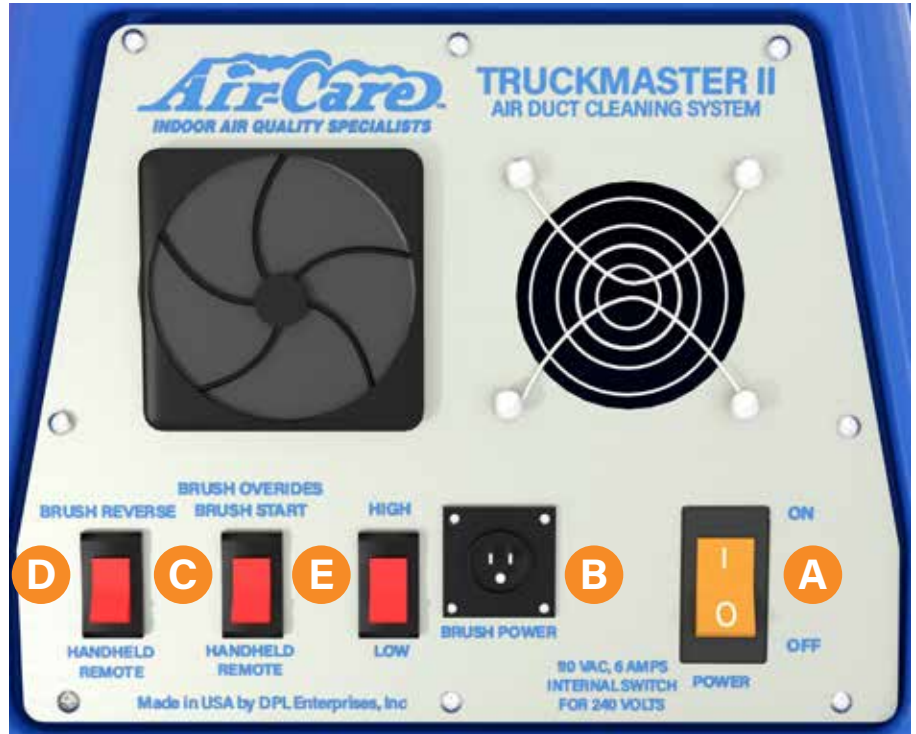
- Inspect AC power plugs to be sure the ground pins are in place.
- Never connect power to Air-Care equipment unless all covers and safety shields are in place. Mechanical and electrical parts could activate without warning and cause injury.
- Never allow anyone but a properly trained technician to use the equipment for cleaning products.
- All Air-Care equipment is designed for US standard 115-volt, 60 Hz AC. The Air-Care TruckMaster II is optionally available in 220/240 Volt, 50/60 Hz Power. Always check the specifications on the equipment before connecting electrical power to Air-Care Equipment.

If you have questions about the safe use of any Air-Care product, call 702-454-5515.

## SET-UP AND TESTING

The Air-Care TruckMaster II provides a 2 Speed Duct Cleaning Motor and Brush and a 1.5" x 35 ft Vacuum Hose with 2" hose cuff and 12" Disposable "Pancake" brush, (Optional 2"x35 ft Hose and 18" brush). Vacuum is supplied by connecting the hose to a Truck Mounted Carpet vacuum machine.

Since Ducts contain dry debris and Carpet Vacuums usually require the debris to be wet to protect the Blower wheel and reduce dust, it is advised that the Dust Damper be connected between the Carpet Vacuum Hose and the TruckMaster Hose. It will also have a solution hose connector to provide just plain water at the lowest pressure and flow rate to the Dust Damper, usually 100 to 200 psi.



- A** Turn off the Power switch on the panel and plug the power cord into a suitable 120-volt outlet.
- B** Attach the Brush power cable from the Vacuum hose to the round connector on the control panel.

KEEP THE BRUSH AWAY FROM ANYTHING BREAKABLE or ANYTHING WITH A POWER CORD OR ROPES OR TUBES BEFORE POWERING ON.

The Rotating brush can quickly wrap up any loose material and it does "WALK" across the floor rapidly when turned on. BE CAREFUL, it is normally operated inside of an Air Duct. The optional 220/240 Volt Air-Care TruckMaster II operates in the exact same way as the 120-volt version.

- C** Brush "RUN / STOP" switch
- D** Brush "CHANGE ROTATION" Switch
- E** "HI /LOW" switch to control the speed and Torque of the Brush.

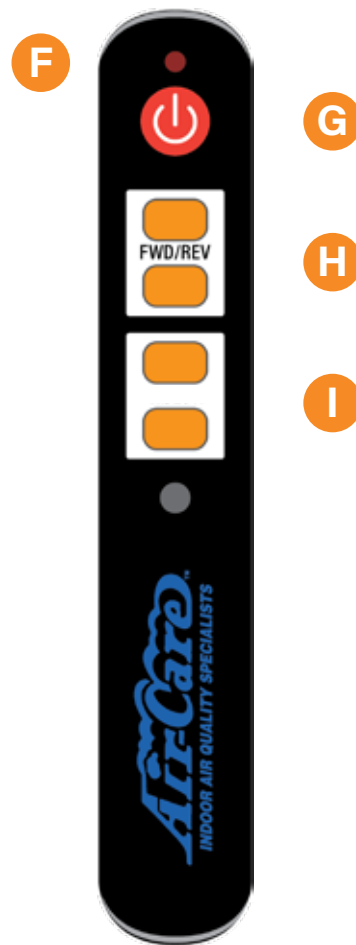
## SET-UP AND TESTING

**F** There is also an IR, Wireless Universal remote That can Start/Stop and Change Directions of the Brush Rotation. The remote is like a Television Remote, you must be in line of sight of the TruckMaster for it to work. It can "SEE" the remote signal while you are on a ladder or across the room, but NOT if you are out of sight or in another room.

**G** The TOP RED is for Start/Stop.

**H** The buttons Marked FWD / REV will Change the direction of the Brush Rotation when pressed while the Motor is Running.

**I** The other buttons are reserved for any new features that may be added in the future.



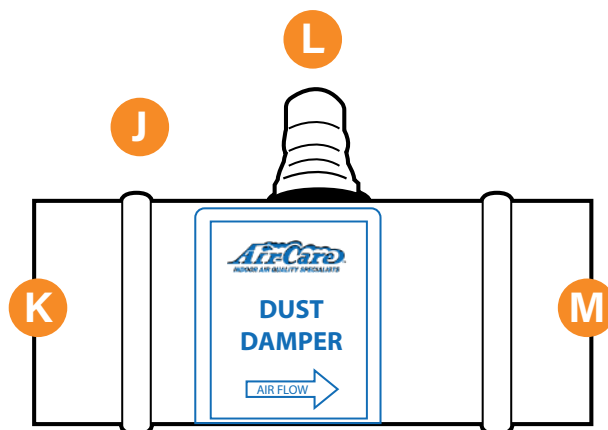
### The Dust Damper

**J** The dust damper protects the Truck Mount Vacuum by injecting water from the solution hose into the vacuum hose going to the truck. Set the solution pressure at the low end of the adjustment.

**K** Truck Mount Vacuum Hose Connection

**L** Truck Mount Solution Hose Connection

**M** Connection to TruckMaster Vacuum Hose



# DUCT CLEANING WITH THE TRUCKMASTER

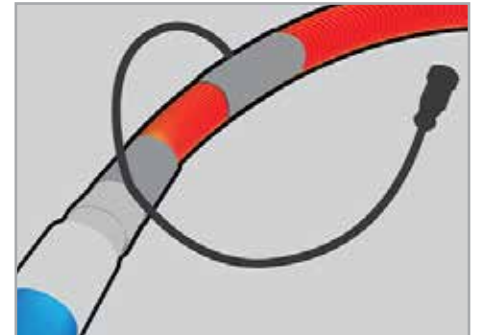
The Air-Care TruckMaster II has a unique dual function. The motorized brush on the end of the vacuum hose assembly agitates the dust and debris into the air duct, while your Truck Mount Vacuum functions as the debris collector. This method of cleaning only requires that the supply and return grills be removed and the air system is turned off. Caution, some air systems may automatically cycle in the OFF position on the Thermostat, so it is best to also shut off the main power breaker to the furnace while cleaning.



1. Before applying power, be sure that all 3 Switches on the Control Box are in the OFF (0) position.



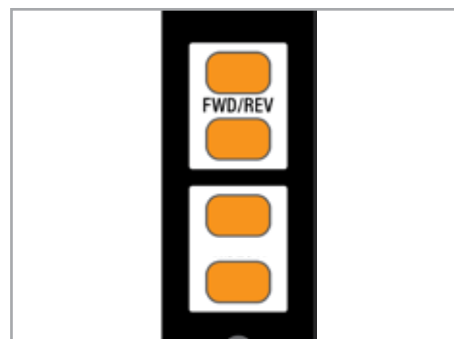
2. After connecting the Air-Care TruckMaster to an extension cord and a wall outlet, turn on the Circuit Breaker on the Right, then the Motor can be started after a few seconds.



3. Connect the 1 1/2" X 35' hose assembly (or the optional 2" X 35' hose assembly) to your Vacuum Source Hose.



4. The electrical cord from the hose will plug in to the TruckMaster control panel socket. Unless your truck vacuum has provision for "Dry Dust", you should install the "Dust Damper" between the Truck vacuum hose and the TruckMaster Hose and attach the solution hose to the truck's solution hose.



5. The Remote uses an Infrared Light beam like a Television Remote. The Remote Receivers are located on the control panel and on the back of the Power Box. The operator can be across the room or up on a ladder and the remote will often function with the IR beam reflecting off light-colored walls and ceilings even with obstructions to visibility.



6. When using the Remote, BOTH Switches on the control box for the brush MUST BE OFF (DOWN)!

These switches can be used to manually START/STOP or Change rotation direction of the brush if the Handheld Remote Transmitter is lost or has a dead battery. When these switches are ON (UP), it deactivates the Remote.

# DUCT CLEANING WITH THE TRUCKMASTER

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- After the brush is placed into the duct by the technician, the Remote's ON/OFF Button should be used to start the brush. Gently guide the vacuum hose and brush into the duct, but make sure to stop the brush before extracting it from the duct.
  
- When the vacuum hose can't be pushed further into the duct, use the FWD/REV button on the remote to alter the brush's rotation. This will enable it to reach deeper into the duct. Follow this procedure for every supply and return duct. After cleaning a Duct Run, draw the hose partially out of the duct while the motor is still on, but ensure to stop it before removing the brush from the duct opening.
  
- For longer ducts, such as main trunk lines without access doors, it is necessary to create "cut-ins" to access the entire duct length. After making a cut-in, cover it with a metal plate, secure it with sheet metal screws, and then apply Aluminum tape over it.
  
- Once each duct is cleaned, sanitize the openings using our EPA-registered Envirocon sanitizer, Soot Set sealer, and Liquid Odor Kill deodorizer. Air Care provides single and dual tank foggers, which produce a fine mist or fog, suitable for this task.
  
- Air-Care offers both self-study and hands-on training on cleaning various air systems. For more details, please call 800-322-9919.
  
- Besides maintaining the exterior cleanliness, cleaning the Cooling Fan intake Filter, and replacing weak batteries in the TruckMaster Remote, no other parts in the Air-Care TruckMaster II require user servicing. Only trained technicians should attempt internal repairs on this equipment.
  
- The process of replacing a worn brush is simple and only requires a single setscrew to secure the hub to the Motor shaft end.
  
- There's a replacement motor kit available for technicians comfortable with basic electrical repairs. However, if you prefer, you can call for a Repair Machine Authorization (RMA) code for Air Care to provide a quote on replacing a motor or any other damaged component.



## TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES	SUGGESTED ACTION
Remote does not operate brush	<ol style="list-style-type: none"> <li>1. Be sure Handheld Remote is pointed at the Remote Receiver sensor on the top of the case.</li> <li>2. Check that the Red indicator on the Handheld remote flashes (Once) when The RED Power Button or when the either of the FWD/REV Buttons are pushed. The Other buttons may not flash, that is normal.</li> <li>3. Is Power Cord Plugged in to a good power outlet?</li> </ol>	<ul style="list-style-type: none"> <li>▪ Locate the TruckMaster II so the remote has an unobstructed view of the sensors.</li> <li>▪ If the red LED does not flash, replace the battery in the remote.</li> <li>▪ The remote module is powered by Power plug it into a known good outlet</li> </ul>
Brush & hose cannot be inserted far enough into duct	<ol style="list-style-type: none"> <li>1. Duct is too small for hose (Less than 2" wide opening).</li> <li>2. Duct makes two 90 degree turns in less than 12 inches.</li> </ol>	<ul style="list-style-type: none"> <li>▪ Be sure you are using the 1 ½" X 35' Hose, Brush and Motor Assembly</li> <li>▪ Try to access the duct from another opening.</li> </ul>
Brush motor does not turn	<ol style="list-style-type: none"> <li>1. Electronic Torque control shut down brush motor power.</li> <li>2. There was a power loss in the building or a power surge.</li> <li>3. Motor Connectors have come loose.</li> <li>4. NEW High Lift Brush used in older unit without 2-Speed Motor or New machine set to LOW</li> </ol>	<ul style="list-style-type: none"> <li>▪ Stop Motor then restart it to reset the unit</li> <li>▪ Be sure the Brush Switch on the Panel is OFF. Try using the handheld remote again.</li> <li>▪ Be sure Brush Power Cable is fully inserted into the Connector on the front of the TruckMaster II</li> <li>▪ Use Brush with thinner bristles or Be sure that the Motor Panel Switch is on HI.</li> </ul>
There are holes in the red vacuum hose	The "crush proof" hose is very durable, but if it is pulled excessively hard, it can separate at the grooves.	<ul style="list-style-type: none"> <li>▪ Call Air-Care for an RMA to get a quote to have the cable housing repaired or replaced, 800-322-9919 or 702-454-5515 info@air-care.com</li> </ul>

## DuctMaster and TruckMaster Coaxial Spring Mount

This new version of the Brush Motor and Mount retains all the advantages of the original and includes some improvements to reliability, durability, and Debris Collection. It has more POWER so the New DuctMasters have a 2 position Switch for HI and Low.



Installing a new motor in a DuctMaster without the Hi/Lo switch could run the FIRM brush fast enough to cause damage to older ducts. If in Doubt

about the Ducts condition, use the SOFT 12" Brush with the smaller, .021" Bristles. Contact Air Care for questions about using the Newer Motor on existing DuctMasters or TruckMasters. 702-454-5515.

The Hoses, Motor and electrical Connections for the new version will fit previous DuctMaster Models.

### **KEEP THE NEW MOTOR FULLY ASSEMBLED!**

#### **First remove the OLD motor and mount from your hose:**

1. Remove the screws holding the Motor Mount collar on the end of the hose and save the screws and nuts to mount the new motor and mount. One screw also secures the internal stiffener to the interior of the hose. (Some stiffeners are Steel, and some are Fiberglass)
2. Cut the 3 wires for the motor leaving enough cord to crimp (or solder) the wires to the new motor wires. All 3 wires will need to be the same length for this new Motor Connection.
3. You will no longer need any of the parts in the original motor assembly unless you are returning it to Air-Care with an RMA for warranty evaluation.

#### **Installing the NEW Motor Assembly.**

1. Be sure you have all the parts for the installation.
  - a. Your original Screws, 10-32 x 5/8" long machine screws,
  - b. 10-32 Hex Nuts with built in Lock Washers.
  - c. Metal or Fiberglass Stiffener (if it was on the original hose)
2. Remove the outer insulation from the black power cord in the hose to expose the 3 insulated motor wires about 2 inches long.

# BRUSH MOTOR REPLACEMENT KIT

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3. Strip the insulation from all 3 wires about ½" back from the ends.
4. Slide the larger black Shrink Tubing over the cable. It will slide over the new connections after the wires are connected.
5. Slide the 3 pieces of smaller shrink tubing over each of the motor wires. The connections can be made by Crimping the new connectors or soldering them. If you are planning to solder the connections, be sure the blue shrink tubing is far enough away from the heated ends to prevent it from shrinking prematurely from the heat of soldering.
6. The wires may be different colors from the Motor than the ones from the hose cable. The order is not important, the brush will operate with any combination of wires, but it may turn in the opposite direction in some cases but will still change directions as before.
7. Each of the 3 wires from the hose can now be inserted into the Crimp connectors on the new motor. Try to twist the wires tight enough so that all the strands go into the silver connector, then crimp it with a crimping tool. Alternately, the wires can be soldered, if so, be sure they are heated to a point where the solder flows into all the strands and into the silver connector. The Motor is a low voltage, HIGH AMP device and a poor connection will result in faulty performance.
8. Slide the Blue shrink tubing over the metal connector; Heat the tubing to shrink it in place. A hair dryer, heat gun or even a cigarette lighter can be used. Be careful to not burn yourself, the plastic hose or heat the other shrink tubing at this time.
9. Connect the other 2 wires following the same procedure.
10. When all 3 wires are connected and insulated, slide the larger black shrink tubing over them and as far towards the motor as possible. Heat this shrink tubing to shrink it on to the wires.
11. Next, slip the Nylon Loop Strap over the wires. This will guide the wires. The Loop Strap will be held in place with one of the 10-32 x 5/8" screws used to hold the black nozzle on the hose.
12. Insert the screws into the mounting holes in the Nozzle and thread the screws into the original holes in the hose if possible. If this is difficult, you may need to drill new holes in the hose using the 2 holes in the Black Nozzle as a guide. Use a 3/16" diameter drill.
13. When the screws are in place, place the loop strap hole over one of the screws and install one of the nuts then tighten the screw with a screwdriver. It may be necessary to use a screwdriver to thread the screws through the loop strap.
14. If your hose has a stiffener, install its loop over the other screw, install the nut and tighten it. If there is no stiffener, just install the nut and tighten the screws.
15. Your repair and upgrade are now complete and ready to test. If you have any questions, please call Air-Care Tech Support, 800-322-9919.

# PANCAKE STYLE BRUSH



12"x .021" Bristles Original, Soft



12" x .045" Bristles, New High Lift, Firm



18" x .032" Alum Hub 4 tuft Brush, Optional, soft 18" x .045" New High Lift, Firm

The upgraded Brush Motor now features both a HIGH and LOW switch, available only on the panel. The default brush for this motor is a firmer, 12-inch Pancake Brush with 0.045-inch diameter bristles. This brush is disposable and available for individual purchase or in a pack of five.

The LOW Speed setting is suitable for older Flex ducts and those with internal insulation. However, always check these ducts for brittleness or flaking insulation before initiating cleaning. If your machine only operates at a single speed, clean these ducts using the softer, 12-inch Pancake Brush with 0.021-inch diameter bristles.

Both brushes come with 'Pancake-Style' hubs, enabling them to navigate sharp turns in smaller air ducts. They are even more maneuverable with the new, slightly shorter motor.

The newer, firmer brush variant has a tendency to float higher in the duct, particularly on the 'HI' setting. But in older ducts, it works just as well as the original brush when the Panel Switch is set to 'LO'.

Our 2-inch BLUE Vacuum Hose and motor now come with an 18-inch brush featuring 0.045-inch diameter bristles, housed in the traditional Disposable Pancake Hub. The bristles' stiffness allows the brush to sit higher in the duct, especially when the Panel Switch is set to 'HI'. An 18-inch brush with 0.032-inch diameter bristles, featuring an Aluminum hub, is now an optional addition.

The 12-inch brushes are compatible with the 2-inch (Blue) hose. The new 18-inch brush can fit the 1.5-inch hose, but there may be situations where it doesn't start properly with the Original Single Speed Motor.

DESCRIPTION AND USE	P/N	QUANTITY
Disposable 12" Pancake-Brush, .021" dia Bristles	SAO0307	Optional
Disposable 12" Pancake-Brush .045" dia bristles	SAXM0012	1 w/ 1.5" Hose Optional for 2" Hose
Disposable 12" Pancake-Brush .045" dia FIRM bristles, 5 Pack	SAXM0015	1 w/ 1.5" Hose Optional for 2" Hose.
Aluminum 18" Aluminum Hub,.032" dia Bristles	SADM0025	Optional
Disposable 18" Pancake-Brush .045" dia bristles	SAXM0014	1 w/ 2" Hose, Optional for 1.5" Hose

OPTIONAL REPLACEMENT PARTS AND ACCESSORIES

SPECIFICATION	DESCRIPTION	PART #
Front Cover	Air-Care TruckMaster II, Complete Assembly	
21	Air-Care Dual Tank Fogger 120V w/ 1.2M Hose & dual valve Fogger head Air-Care Single Tank 120V Fogger with 1.2m Hose Air-Care Dual Tank Fogger 220V w/ 1.2M Hose & dual valve Fogger head Air-Care Single Tank 220V Fogger with 1.2m Hose and Fogger Head	FG0008 FG0009 FG0165 FG00187
24	Hose (Blue), 2" X 35' TruckMaster II Brush and High Torque Motor Assembly. Includes 18" TruckMaster II Brush, .045" Bristles	FG0075
26	Brush, 12" Disposable, Pancake Brush, .045" FIRM Bristles 5 Pack of 12" Firm Bristle Brushes Optional 12" Disposable Pancake Brush, .021" SOFT Bristles 5 Pack of 12" Soft Bristle Brushes	SAXM0014 SAXM0016 SAO0307 SAO0002
27	Brush, 18" Pancake TruckMaster II, .045" FIRM, Level Bristles, BLK	SAXM0015
	5 Pack of 18" Pancake Brush, TruckMaster II, .045" FIRM, Level Bristles	SAXM0017
12	Handheld Remote, Universal	SAXM0003
Not Shown	Bristles, 18" TruckMaster II, .045" Level, BLK Bristles, 18" TruckMaster II, .032" Level, BLK	BA0004 BA0003



Air-Care Fogger Single Tank



Air-Care Fogger Dual Tank for 2 Chemicals



Optional 2" Hose (Blue) & 18" Flex-E Brush with Replaceable Bristles

## SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Size	14.4" W x 19.5" D x 14" H
Weight	10.1 Pounds
Power requirements:	115 Volt AC, 60Hz, 5 AMPS (Optional: 220/240 Volt, 50/60 Hz, 3 AMPS)
Power Cord	16 gauge, 3 wired, pigtail with grounded to 3 prong plug
Hose Attachments	<ul style="list-style-type: none"> <li>▪ Hose, 1 ½" X 35' TruckMaster Brush and Motor Assembly. Includes: 12" FIRM Pancake Brush, .045" BLK Level Bristles Power Brush RPM is 2,000 max. with 1500watt Motor and Power Connector</li> <li>▪ Optional 2" x 35 ft Brush and Motor Assembly with 18" Brush</li> <li>▪ Dust Damper for use with Truckmount carpet machines connects between Truck Vacuum hose and TruckMaster vacuum hose.</li> </ul>
Operating Environment	25 to 125 Deg F (-4 to 50Deg C)
Case	Durable Rotationally Molded case with built in handle
Operating Controls, Truckmaster	<ul style="list-style-type: none"> <li>▪ ON/OFF main Breaker with Red power indicator</li> <li>▪ Wireless Handheld IR Remote Control to Start/Stop and Change Direction of brush rotation.</li> <li>▪ Panel has Brush Motor High and Low Power Switch</li> <li>▪ Secondary Brush On/Off and Brush Fwd/Rev switches on panel</li> </ul>

All specifications and prices are subject to change without notice.

## PARTS

DESCRIPTION	PART NUMBER	NOTES
TruckMaster Duct Cleaning system	FG0193	Power & Control Box, 1.5" x35 ft Hose, 12" brush 1500-watt Motor, Dust Damper, AC cord and Bag
TruckMaster Power and Control Box	SATM0030	Power Cord NOT included
Remote Universal Transmitter, handheld	SAXM0003	Two AAA batteries included
Battery for remote (AA Standard or Alkaline)	SHOP0074	Standard or Alkaline AAA
Brush, Motor, Vacuum hose Assembly 1.5" x 35 ft	FG0074	Includes 12" Firm Pancake Brush
Brush, Motor, Vacuum hose Assembly 2.0" x 35 ft	FG0075	Includes 18" brush
Replacement Brush Motor Kit, 1500-Watt w/ Instructions	SADM0054	Call for Installation tips.
Replacement Flex-E-Bristle Brush with Pancake Hub 12"	Call for Part #	FIRM .045" Dia Nylon Bristles, Level
Replacement Firm Pancake Brush, FIRM	Call for Part #	FIRM .045" Dia Nylon Bristles, Level
Replacement Flex-E-Bristle Brush with Pancake Hub, 12"	SAXM0001	SOFT .021" Diameter Nylon, Black, Level
Replacement Pancake brush, Pkg of 5.	SAXM0002	.021" Diameter Nylon, Black, Level
Replacement Firm 18" Pancake Brush	Call for Part #	FIRM .045" Dia Nylon Bristles, Level
Replacement Flex-E-Bristle Brush with Hub 18"	SADM0025	.032" Diameter Nylon, Black, Level
Bristles, 1 hank, 18" x .032" Dia Level	BA0003	.032" Dia., Nylon, Black, Level, 1 hank
Power Cord, 15 ft, 18 ga x 3 wire grounded	EC0012	Standard Computer type end
Coil N Carry Strap with Handle for Hose, Motor, Brush arm	FG0102	
Dust Damper, 2.0"	FG0051	

## LIMITED WARRANTY

**TRUCKMASTER II**

Air-Care warrants this product to be free from defects in materials and workmanship to the original purchaser for a period of Three (3) years from the date of purchase. Components listed below are excluded from this Three-year period and are covered for periods described below:

<b>Circuit Board &amp; Remote</b>	<b>1 Year</b>
<b>Power Supply</b>	<b>1 year</b>
<b>Hose &amp; Motor Assembly</b>	<b>90 Days</b>
<b>Brushes,</b>	<b>No Warranty</b>

Warranty covers both parts and labor (labor is to be performed at Air-Care's facility located at 3868 E. Post Road; Las Vegas, Nevada).

Warranty is extended to the original purchaser and is not transferrable.

This warranty does not extend to any damage to a product caused by or attributable to freight damage, abuse, misuse, improper or abnormal usage. Warranty is also void if the product has been modified or altered in any way.

The purchaser is responsible for the cost of shipping the equipment to Air-Care's facility for evaluation. If found to be defective and covered by the terms of this warranty, Air-Care will pay FedEx ground shipping charges on the repaired or replaced item back to the purchaser's location. Any additional expedited service charges for quicker shipping shall be borne by the purchaser. If the product or component is not found to be a warranty issue, the purchaser will be responsible for return shipping charges.

Air-Care is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use of performance of the product; damages with respect to any economic loss, loss of property, loss of revenues or profits, loss of use, or other incidental or consequential damages of whatsoever nature.

The warranty extended hereunder is in lieu of any and all other warranties, and any implied warranties of any type.

This warranty gives you specific rights. These rights and others vary from state to state.

**Division of D.P.L. Enterprises Inc.**

**3868 East Post Road, Las Vegas, Nevada 89120, (702) 454-5515, FAX (702) 454-5225**

**Website: [www.air-care.com](http://www.air-care.com) • E-mail: [Info@Air-Care.com](mailto:Info@Air-Care.com)**