



# Electronic Service Manuals

This electronic document is provided as a service to our customers. We do not create the contents of the information contained in this document. Should you have detailed questions pertaining to the information contained in this document, you may contact Michco, or the manufacturer which provided the original information in this electronic deliverable. Michco's only part in this electronic deliverable was the electronic assembly process.

You may contact Michco through the following methods:  
Phone (517) 484-9312 or (800) 331-3339 MI, OH, IN only  
2011 N. High St. -- Lansing, Michigan -- 48906  
Fax: (517) 484-9836  
Email: [CustServ@Michco.com](mailto:CustServ@Michco.com)  
Web site: [www.Michco.Com](http://www.Michco.Com)  
Parts Web site: [www.FloorMachineParts.Com](http://www.FloorMachineParts.Com)

Order Parts on Line at:  
**[www.FloorMachineParts.Com](http://www.FloorMachineParts.Com)**

Directly to Parts & Service:  
By Email: **[Shop@Michco.com](mailto:Shop@Michco.com)**  
By Fax: (517) 702-2041  
By Voice: Use numbers above.

**Serving the Cleaning Industry Since 1922**

Notice: All copyrighted material remains property of original owners, all trademarks are property of respective owners. Manuals are subject to Manufacturer's reproduction limitations. Originals or reproductions were provided by manufacturers through a request. We make no warranty as to the correctness of information provided in this document and you assume all risk.

ADVANCE

# OPERATOR

M A N U A L

---

A N D P A R T S L I S T

---

## Metrik™ 12

Models 701009, 701010, 701011,  
701126

## Metrik™ 16

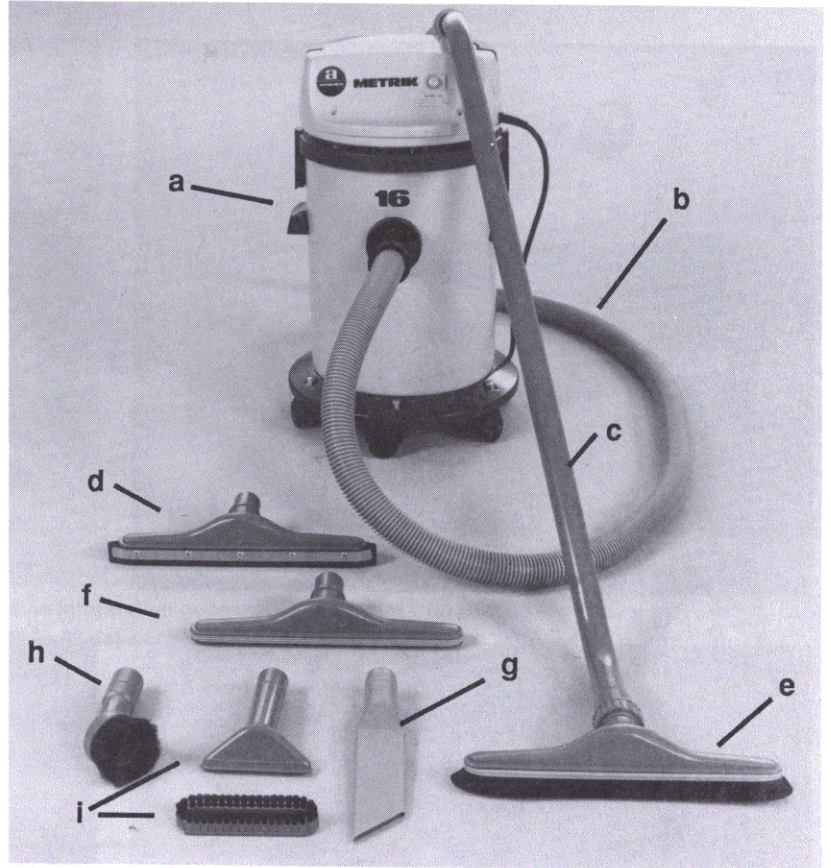
Models 701012, 701013, 701014,  
701127

---

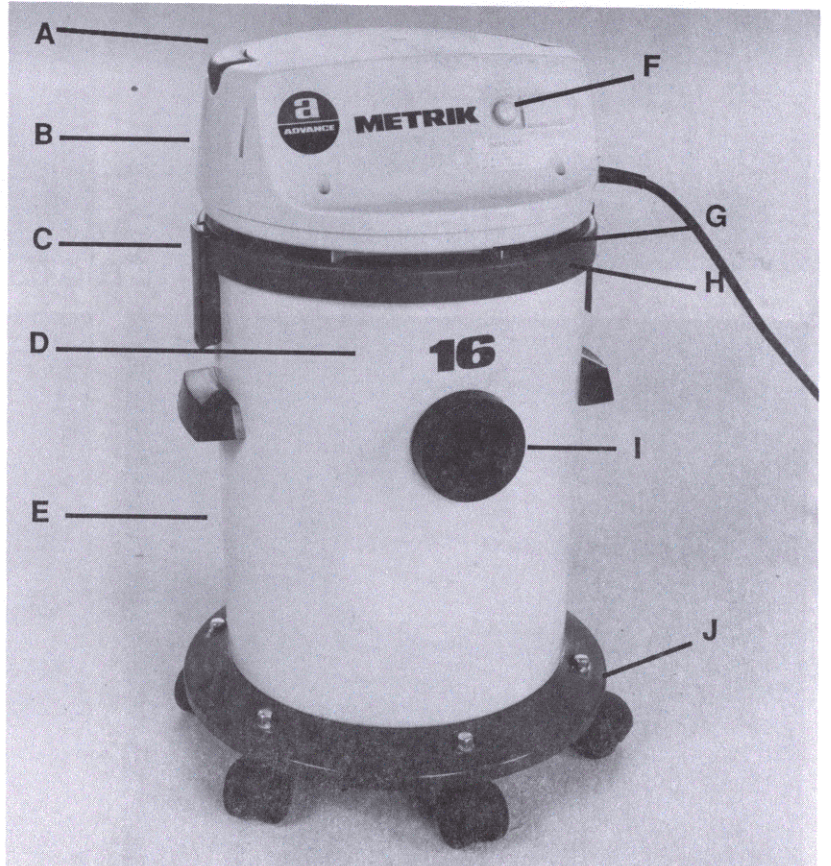


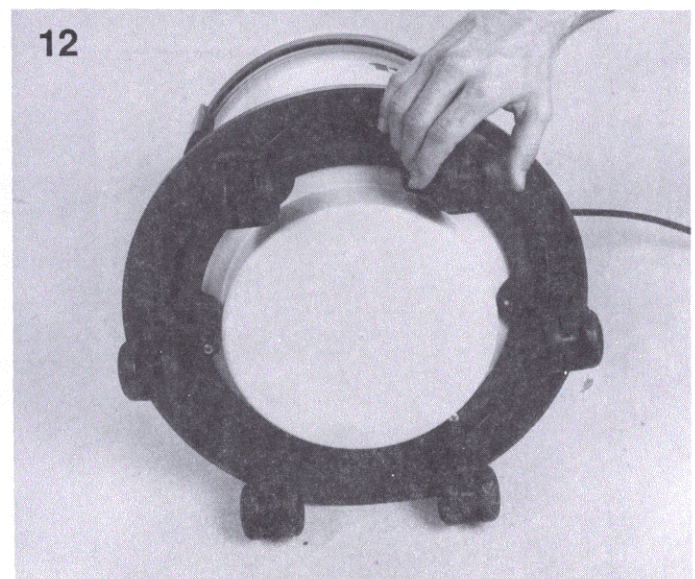
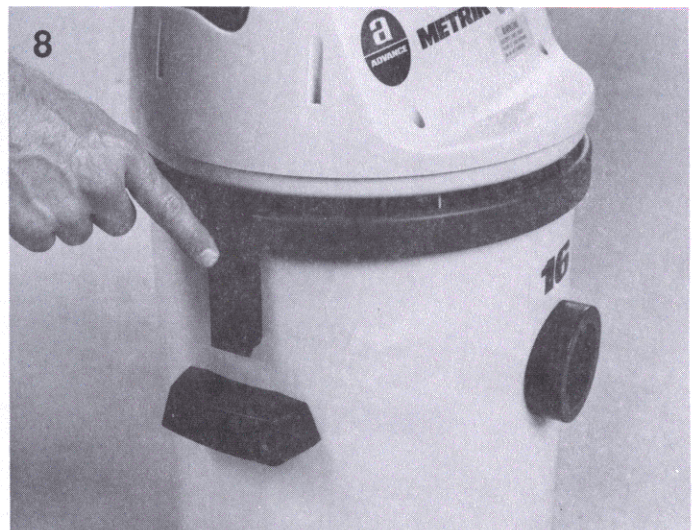
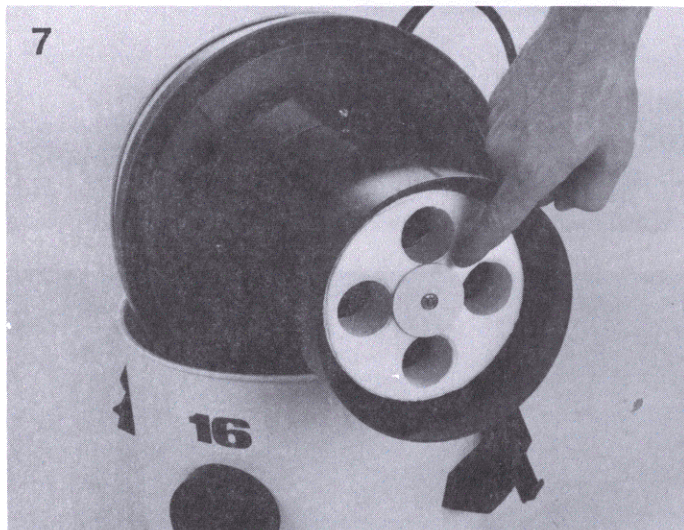
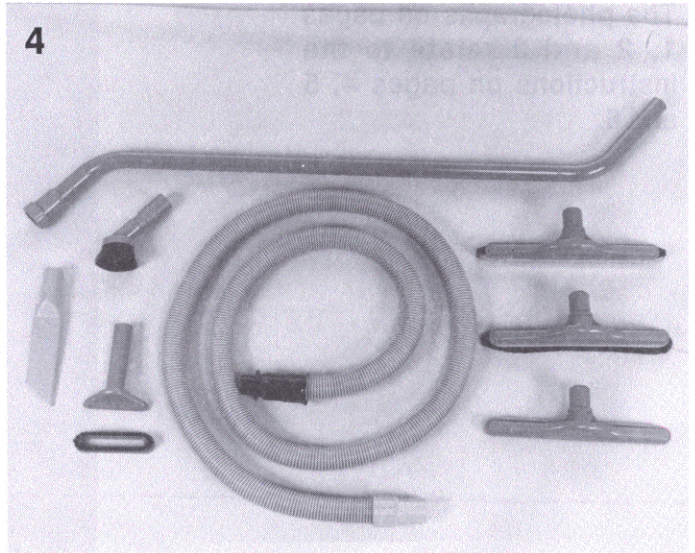
The photographs on pages 1, 2 and 3 relate to the instructions on pages 4, 5 and 6.

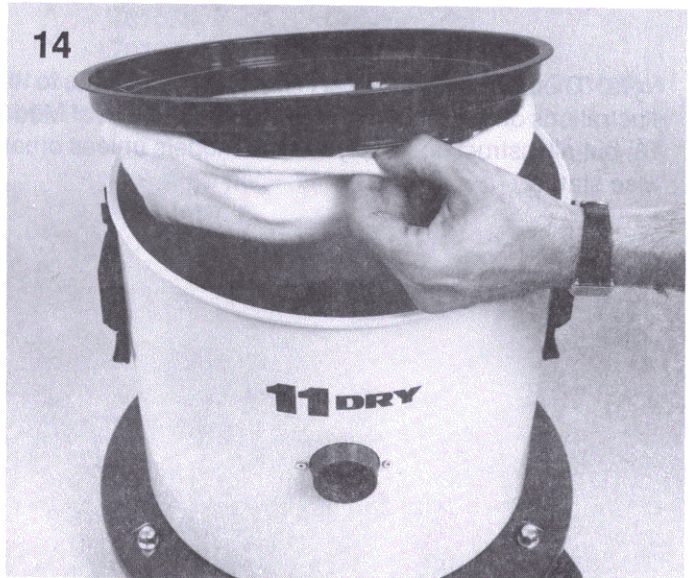
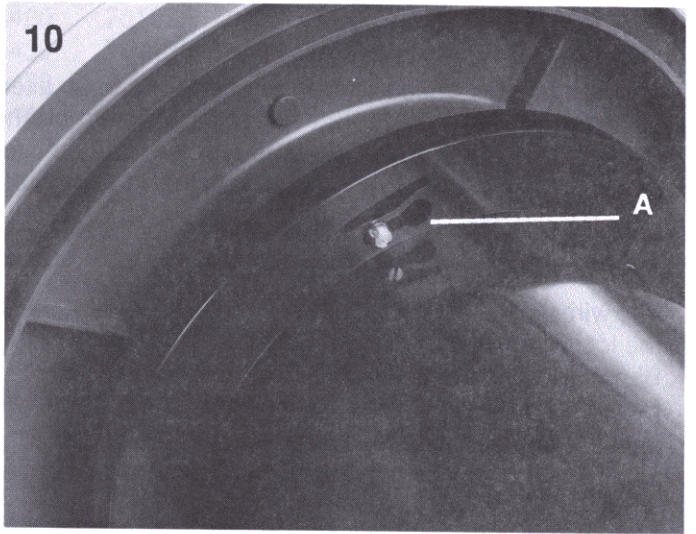
1



2









## Smooth floor squeegee applications for wet pick-up (4)

Fit the squeegee tool (wet pick-up) into the wand, and tighten the lock collar to secure. The collar should be loose enough to allow the squeegee tool to pivot or rotate within the wand, but tight enough to prevent dislodging.

After wet pick-up cleaning has been completed, lift the nozzle and hose above the height of the tank vacuum for approximately one minute to ensure that all moisture is taken into the container, otherwise moisture may run back down the hose onto the floor when the tank vacuum is switched "Off".

Clean the squeegee tool after each use, particularly after sticky, wet pick-up. It is suggested that the squeegee tool be cleaned using a warm solution of soap and water.

## Carpet cleaning (4)

Fit and remove the carpet tool in the same manner as the squeegee tool. For carpet cleaning, use the tool without blades or bristles.

## Hard floor cleaning (4)

Fit and remove the hard floor tool in the same manner as the squeegee tool. For hard floor applications use the tool with the bristle strips.

## Other cleaning operations (4)

A dusting brush and an upholstery tool with a slide-on brush are provided for use in smaller areas. They can be attached to the end of the wand for overhead use, or to the end of the hose for hand held use. A crevice tool is provided for hand held use by inserting into the hose end. An optional tool basket is available for convenient storage of tools on the unit.

## OPERATING THE TANK VACUUM

### Plugging the Tank Vacuum into the main socket outlet

Insert cord plug into the main socket outlet. To store the cord, remove the plug from the main socket and carefully wind around the motor housing.

### Switching 'On' the Tank Vacuum (5)

To switch "On", press the switch on the top lid of the motor housing (A). To switch "Off", press again.

## FLOAT CHAMBER SUCTION CUT-OFF

### Wet applications (6), (7), (8), (9)

The float provides a safe and easy means of indicating that the container is full of liquid and must be emptied. The suction of the tank vacuum will be reduced and finally stopped when the rubber seal on the float contacts the suction duct of the motor housing (7).

IT IS NOW NECESSARY TO EMPTY THE CONTAINER.  
NOTE: Always remove plug from electricity supply socket before emptying, cleaning the appliance, making adjustments and when not in use. Switch "Off" the Tank Vacuum and remove plug from the electricity supply socket.

Remove the motor housing (6) after releasing the two tank latches (8). Carefully lift the motor housing with float chamber from the container and place aside away from drain or sink, and do not get motor housing wet. Stand it on the float chamber housing. Empty contents of container by lifting on the two side handles (9) and clean as necessary. Continue wet pick-up or change to dry cleaning applications before refitting motor housing.

NOTE: Care should be taken emptying the container when it is full of liquid. The tank when full weighs:

Model 12 — Approximately 12.7 kilos (28 lbs.)

Model 16 — Approximately 17.4 kilos (38 lbs.)

Reposition the motor housing assembly correctly before securing with the container clips. Insert plug into main socket outlet, switch on and continue cleaning.

## Removing and fitting float chamber cut-off device (10)

Remove motor housing together with float chamber, invert and support with the float chamber facing up. Four screws spaced around the outer flange locate and hold the float chamber to the motor housing molding. To remove the float chamber, apply pressure at the two lugs and turn counter-clockwise until it snaps to the release position, allowing the heads of the 4 screws to pass out of the keyhole slots (A). Lift off the float chamber.

NOTE: Do not adjust screw heads as they are positioned to allow satisfactory fitting and removal of the float chamber without the use of a screwdriver.

Dry the underside of the motor housing for dry pick-up application as required. To fit the float chamber, place motor housing upside-down on top of the lid. Locate keyhole slots in chamber flange over the 4 screws and turn clockwise to snap into the locked position.

Remember, if the application is to be changed from dry to wet pick-up remove cloth filter with frame before fitting motor housing and float chamber.

## Dry applications (11)

Before using the tank vacuum for dry pick-up following wet pick-up, ensure that the inside of the container and underside of the motor housing is dry and the float chamber has been removed. Also be sure to insert cloth filter (dust basket) prior to use in dry applications. No paper filter bag is required for dry pick-up.

## Storing your Tank Vacuum

Prior to storing, wind the cord and place on the cord hook. Store the Tank Vacuum indoors.

DO NOT store the tank vacuum outdoors as moisture may enter the motor causing damage.

## Moving and carrying your tank vacuum (12), (13)

The tank vacuum has six dual swivel casters to provide stability and full maneuverability. It also has a handle on the top of the motor housing for carrying the tank vacuum.

## USER MAINTENANCE

### Cloth filter (14)

Your tank vacuum is provided with a cloth filter. The cloth filter is held to the filter frame by a ring of elastic sewn into its edge. When necessary, clean the cloth filter using the suction from another cleaner.

DO NOT WASH the cloth filter as the fibers will become matted and prevent filtration.

NOTE: Do not use the machine without the cloth filter correctly in position for dry pick-up operations.

### Flexible hose

Should the hose develop a split adjacent to the curved tube or swivel hose end, unscrew the hose from the molding (left-hand thread), cut off the faulty portion and refit hose into the molding. Fit a replacement hose in the same manner.

### General appearance

In order to maintain the appearance of the tank vacuum wipe the body with a damp cloth and dry.

### Service and Spares

To keep your tank vacuum in peak condition, ask your Advance Commercial Service Dealer for details of their regular service plan. Insist upon Advance spare parts for maximum efficiency.

---

## IMPORTANT SAFEGUARDS

- **DO NOT** pick up inflammable liquids such as cleaning fluids, petrol, etc.
- Always remove plug from electrical supply before cleaning the appliance, making adjustments, and when not in use.
- Do not pull on the cord to remove the plug from the electrical supply.
- **Warning** — do not store outdoors and avoid getting wet by rain, etc.
- If the tank vacuum appears faulty, do not attempt to operate.
- **DO NOT** run the tank vacuum over the supply cord, as it may damage the electrical insulation.
- **DO NOT** use the tank vacuum to pick up hot ashes or lit cigarette ends.
- Have repairs made by qualified a Advance Commercial Service Dealer.
- Use the tank vacuum only for its intended purposes as described in the instructions.
- The use of attachments other than those recommended and supplied by the manufacturer may be hazardous.



# METRIK 12, METRIK 16

Item	Part No.	Qty	Description	Item	Part No.	Qty	Description
	701009	1	Metrik 12 100V	302	701054	1	Coupling
	701010	1	Metrik 12 120V	303	701055	1	Seal
	701011	1	Metrik 12 220/240V	304	701056	1	Connecting Piece
	701126	1	Metrik 12 240V Aus	305	701057	2	Screw
	701012	1	Metrik 16 100V	310	701058	2	Grip
	701013	1	Metrik 16 120V	320	701059	4	Screw
	701014	1	Metrik 16 220/240V	330	701060	4	Nut
	701127	1	Metrik 16 240V Aus	340	701061	2	Clamp
10	701017	1	Bottom Lid 120V	350	701062	4	Rivet
10	701108	1	Bottom Lid 100, 220/240, 240V	355	701085	4	Washer
20	701018	4	Screw	360	701063	1	Chassis
25	701140	1	Gasket	370	701064	6	Caster
30	701019	1	Silencer	380	701065	3	Screw
40	701144	1	Screen	390	701066	6	Washer
50	701021	2	Seal	400	701067	6	Nut
60	701109	1	Motor, By-pass 100V	410	701069	1	Fabric Filter
60	207802	1	Motor, By-pass 120V	420	701070	1	Dust Basket
60	701113	1	Motor, By-pass 220/240V	430	701138	1	Bin Assembly 12
60	701115	1	Motor, By-pass 240V Aus	430	701139	1	Bin Assembly 16
**	203518	1	Carbon Brush Set for Motors	440	701132	1	Powerhead Assembly 100V
**	228051	2	Bearing for Motors	440	701133	1	Powerhead Assembly 120V
**	208191	2	Rotating Fan for Motors	440	701134	1	Powerhead Assembly 220/240V
70	701024	1	Middle Lid 120V	440	701135	1	Powerhead Assembly 240V Aus
70	701110	1	Middle Lid 100V, 220/240V, 240V				
75	701025	1	Seal	**	701106	1	Tool Basket
80	701026	1	Plate 120V	*	701086	1	Tool Kit, includes:
80	701116	1	Plate 100V, 220/240V, 240V	*	701095	1	Hose with Cuff
85	701141	1	Air Baffle	*	701094	1	Wand
90	701028	1	Switch	*	701090	1	Carpet Tool
95	701143	1	Seal	*	701087	1	Squeegee Tool
100	701030	4	Screw	*	701142	1	Replacement Blades for 701087
105	701050	1	Cover, Switch Boot	*	701091	1	Hard Floor Tool
110	701031	2	Screw	*	701088	1	Dusting Brush
120	701032	1	Terminal Block	*	701089	1	Crevice Tool
130	701033	1	Screw	*	701093	1	Upholstery Tool
140	701111	1	Power Cord 100V	*	701023	1	Slide-On Brush for 701093
140	100352	1	Power Cord 120V	450	701092	1	Hose Connector
140	701114	1	Power Cord 220/240V				
140	701117	1	Power Cord 240V Aus				
150	701037	1	Grommet				
160	701038	2	Clamp				
170	701039	2	Screw				
195	701039	3	Screw				
210	701045	1	Top Lid 120V				
210	701112	1	Top Lid 100V, 220/240V, 240V				
215	701046	3	Screw				
250	701051	1	Silencer				
260	701052	1	Float Assembly				
270	701053	1	Bin, Metrik 12				
270	701044	1	Bin, Metrik 16				

\* = shown on page 1

\*\* = not shown

---

## **Metrik™ ONE YEAR LIMITED WARRANTY**

Advance Machine Company ("Advance") warrants to the original purchaser only ("Buyer") that each new Metrik shall be free from defects in material and workmanship upon delivery. Advance's liability and Buyer's exclusive remedy against Advance is expressly limited, at Advance's option, to repair or replace at our factory or authorized Advance Service Center any part or parts which are returned within the warranty period to our factory or authorized Advance Service Center, transportation prepaid.

This limited warranty expires one year from the date of purchase by the Buyer. A warranty registration card is to be completed and returned immediately at the time of purchase. Specific limitations and exclusions apply. Items not covered by warranty include, but are not limited to:

- Damage resulting from accidents, abuse, misuse or acts of God (flood, lightning, etc.)
- Damage in transit.
- Rental units.
- Failure due to lack of proper maintenance or care.
- Relatively minor adjustments such as tightening of screws or bolts, etc., not connected with the replacement of parts.
- Repairs or alterations by an organization other than the factory or an authorized Advance Service Center.
- Normal wear items (with the exception of documented, premature failure).

If, after inspection of the returned machine or any part or parts, Advance determines that the defect is not covered by the warranty, all expenses incurred by Advance in connection with replacement or repair of the machine or any part or parts thereof shall be the Buyer's responsibility. Any part or parts returned to Advance for replacement shall become the property of Advance. IN NO EVENT SHALL ADVANCE BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING BUT NOT LIMITED TO DAMAGE OR LOSS OF PROPERTY OR EQUIPMENT, LOST REVENUES OR PROFITS, CLAIMS OF CUSTOMERS, OR HARM TO GOODWILL OR BUSINESS REPUTATION DIRECTLY OR INDIRECTLY ARISING FROM THE SALE, HANDLING OR USE OF THE Metrik, OR FROM ANY OTHER COSTS RELATING THERETO AND ADVANCE'S LIABILITY HEREUNDER. Advance shall not be liable to the Buyer for any claims, damages, injuries, actions, or causes of action whatsoever based on negligence or strict liability.

ADVANCE MAKES NO WARRANTY THAT THE Metrik SHALL BE MERCHANTABLE OR THAT SUCH MACHINE SHALL BE FIT FOR ANY PARTICULAR PURPOSE. MOREOVER, ADVANCE MAKES NO EXPRESSED OR IMPLIED WARRANTIES EXCEPT FOR THE LIMITED WARRANTY SET FORTH HEREIN. IN ADDITION, NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, MADE BY ANY DEALER, SALES REPRESENTATIVE, OR FIELD AGENT OF ADVANCE WHICH IS NOT SPECIFICALLY SET FORTH HEREIN SHALL BE BINDING ON ADVANCE.

Genuine Advance replacement parts shall be free from defects in material and workmanship for a period of 90 days after "installation" and shall be subject in all respects to the limitations and exclusions of this limited warranty.

Authorized Advance Service Centers can assist owners in the proper handling of any warranty question or claim. In the event that you want to contact Advance directly, please write to the Customer Service Department at Advance Machine Company, 14600 21st Avenue North, Plymouth, Minnesota 55447-3408 or call (612) 473-2235. Provide an explanation of the problem and include the serial number of the machine as well as the name of the selling organization.

FOLD HERE

---

**IMPORTANT: This card contains information necessary to expedite warranty protection.  
Mail within 30 days of purchase to Advance.**

**LIMITED WARRANTY  
PLEASE PRINT**

Purchaser \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Model \_\_\_\_\_ Serial Number \_\_\_\_\_  
Purchased from \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Date Purchased \_\_\_\_\_

**THIS IS TO CERTIFY THAT THE ABOVE EQUIPMENT  
WAS CHECKED OUT IN WORKING CONDITION.**

---

FOLD HERE

---

Affix  
Proper  
Postage

**Advance Machine Company  
14600 21st Avenue North  
Plymouth, Minnesota 55447-3408**

---



**ADVANCE MACHINE COMPANY**

14600 21st Avenue North  
Plymouth, Minnesota 55447-3408  
612-473-2235 Phone  
612-475-9718 Fax