



Certified to  
NSF/ANSI/CAN 50



## FLOWSTAR® SKIMMER

### PUBLIC & RESIDENTIAL INSTALLATION, OPERATION & PARTS

Float valve is not NSF certified.

**IMPORTANT SAFETY INSTRUCTIONS FOR SKR1xx, SKR1xx-L, SKR15xxx, SKR15xxx-L, SKR2xx, SKR2xx-L, SKR17xxx, SKR17xxx-L, SKR14xxx, SKR14xxx-L, SKR32xx, SKR32xx-L,**

**READ AND FOLLOW ALL INSTRUCTIONS**

**Max Flow**  
2½" Pipe: 90 GPM  
2" Pipe : 63 GPM

**Min Flow**  
2½" Pipe: 15 GPM  
2" Pipe : 15 GPM

#### ⚠ **WARNING!**

**HAZARDOUS SUCTION. RISK OF HAIR OR BODY ENTRAPMENT, DROWNING OR DISEMBOWELMENT.** When an equalizer is used, the opening in the pool shall be protected by a VGBA Compliant drain cover rated for 100 GPM or greater. **NOTE:** Skimmer is not equivalent to a main drain. If not using a single, unblockable drain, all pools, spas and hot tubs must have at least two main drains besides skimmer(s) or a "single, unblockable" drain.

### SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

## OPERATION

### Operation Overview

Pump suction pulls water through skimmer. Water flowing into skimmer carries floating leaves, bugs, etc., where they are trapped in the skimmer basket. Dust, body oils, etc., pass through the basket to be removed by the filter. Weir door in skimmer opening enhances surface flow and skimming action.

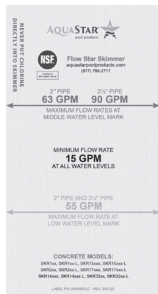


Figure 1:  
Data Plate Image

### Water Level

Keep pool, spa or hot tub water level at the middle water level mark, on the data plate image located inside skimmer housing, for best performance. Never operate below the low mark, see Figure 1.

### Flow Adjustments

Adjust valves located before the pump, see Figure 2.

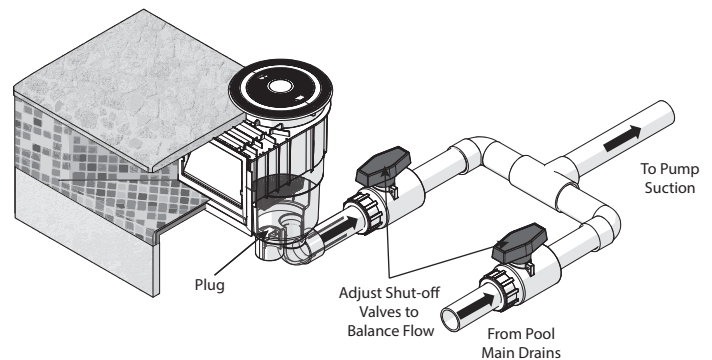


Figure 2: Typical residential installation

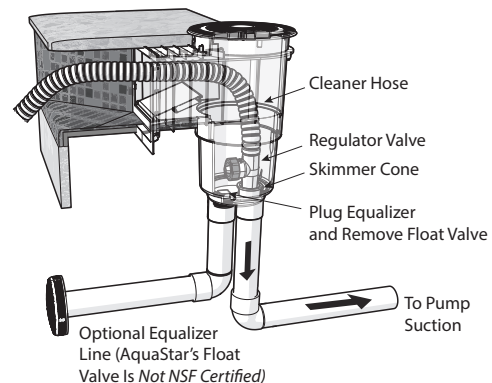


Figure 3: Vacuuming pool; float and check valves removed, equalizer port plugged.

### Vacuuming Pool

Remove deck lid and skimmer basket. If there is a float valve, remove it and plug equalizer port that is closest to the pool. Replace basket and place vacuum plate on top of basket. Fill the vacuum hose with water and then place your hand over the end of the hose as you bring it through the skimmer throat, or over the deck to attach it to the vacuum plate (Figure 3). Follow instructions in vacuum owner's manual for vacuuming operation. After vacuuming, remove hose, vacuum plate and basket, unplug equalizer port and reinstall float valve, basket and deck lid.

## MAINTENANCE

Periodically check weir for free operation. Replace if damaged or worn. Check strainer basket as often as needed for accumulated leaves, debris, etc. Empty basket as required.

Skimmer deck lid is made of impact and weather resistant materials, but extended use (5-10 years) may lead to reduced strength. Regularly check condition of skimmer lid. Look for cracks, chips, deterioration of plastic, etc. If any sign of damage or deterioration is found, replace the deck lid and fasteners.

To winterizing, drain pool until level is below skimmer inlet. Remove cover, basket and float. Plug bottom port(s). Cover skimmer to prevent rainwater or snow from entering the skimmer where it could freeze.

### **WARNING! LOW WATER LEVEL CAN MAKE IT DIFFICULT TO EXIT POOL AND MAY DAMAGE PUMP AND OTHER POOL EQUIPMENT.**

Note: An equalizer line is a way to bypass the skimmer and it is intended to inhibit damage to the pump when pool water level is below the throat of the skimmer or the basket is full. You must check your local code as some require equalizer lines, others don't allow them and others leave it to the pool designer. When equalizer line is used the cover inside the pool must be VGBA compliant, and have a flow rating higher than the skimmer's configuration-specific flow rating.

## SKIMMER LAYOUT AND SUCTION LINE SIZING

Skimmers are critically important for removing floating contaminants, oils, and debris; for this reason modern pool building codes require that the number of skimmers installed are capable of handling 100% of the filtration flow rate.

1. The minimum number of skimmers needed is based on facility type (See Table 1).
2. When selecting the location for skimmers, at least one should be placed so that the prevailing wind blows towards the skimmer.
3. Size suction pipe based on the design flow rate such that the water velocity in the pipe will not exceed six feet per second. To increase system flow capacity for long pipe runs, use multiple pipes (both ports) or larger pipe (2.5" spigot, or 3"/4" adapter bushing #BFB101). See figures 5 and 7 piping layout.

Table 1: Skimmers Required Per Square Foot Area

| Facility Type              | Area Per Skimmer (sq. ft.) |
|----------------------------|----------------------------|
| Public Pool                | 500                        |
| Residential Pool           | 800                        |
| Public and Residential Spa | 150                        |

Example: A public pool that is 1000 sq. ft. requires at least two skimmers.

## INSTALLATION

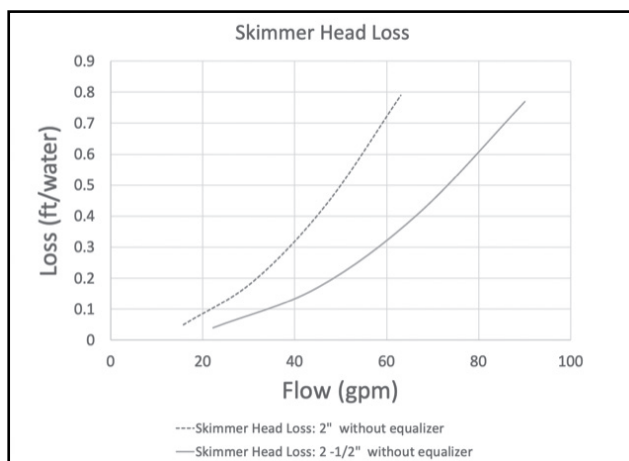
See section "Dimensions and Parts List", "Face Plate Dimensions", and "Face Installation Instructions" for basic dimensions and further instructions. Top cover frame has 1" vertical height adjustment.

### PIPE CONNECTIONS AND TESTING

Connect pump inlet line to rear port in bottom manifold. Skimmer manifold is PVC, and comes in a variety of configurations. For threaded connections inside skimmer manifold, do not use pipe dope; to seal joint use RTV Silastic #732 (preferred), Teflon tape or Plasto-Joint Stik. For slip connections, use a temperature-appropriate PVC solvent cement and primer on both the pipe and the fitting. Ensure all surfaces are clean and free of debris before application. Consider ambient temperature and humidity during installation, as these factors can affect the curing process. Apply the primer to both the pipe and the fitting, followed by the solvent cement. Assemble the joint per the cement manufacturer's instructions, including rotating the pipe a quarter turn to evenly distribute the cement. Allow the joint to set for the recommended time before pressure testing to ensure a secure and leak-free connection.

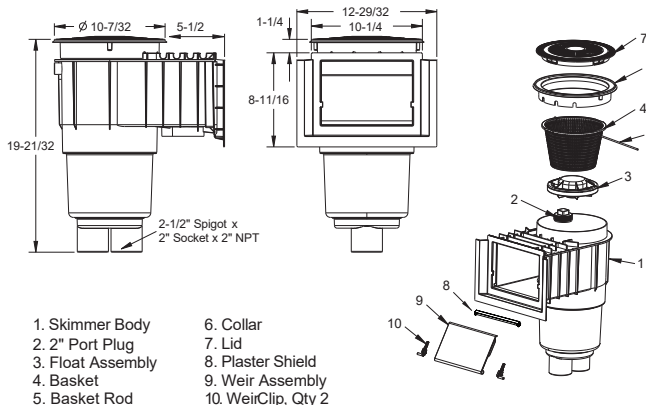
**WARNING! PLASTIC CEMENTS AND PRIMERS CAN BE FLAMMABLE, POISONOUS OR BOTH. CLOSELY FOLLOW CEMENT MANUFACTURER'S INSTRUCTIONS.**

**WARNING! FALLING AND TRIPPING HAZARD. THE DECK LID MUST BE INSTALLED FLUSH WITH THE DECK LEVEL.**



## DIMENSIONS AND PARTS LIST

### FlowStar® Skimmer with Water Stop Face



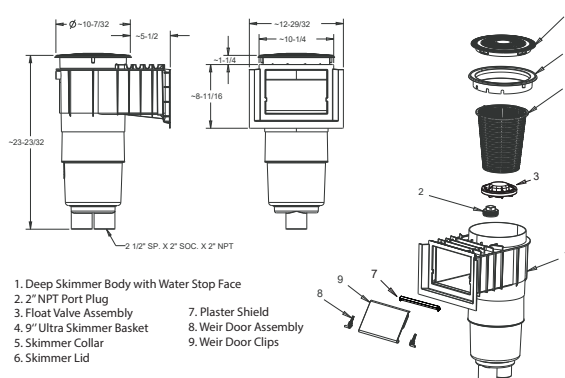
Part # SKR1xx,

#### Part Numbers/Colors

SKR101 - White  
SKR102 - Black  
SKR103 - Lt. Gray  
SKR105 - Dk. Gray  
SKR108 - Tan

Float valve is not NSF certified.

### FlowStar® Skimmer with Water Stop Face and 9" Ultra Basket (Optional Water Bond)



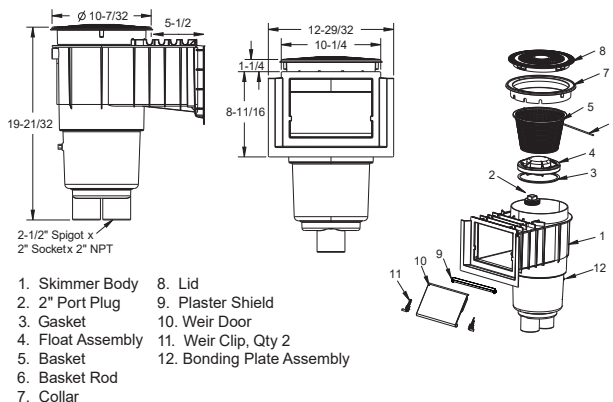
Part # SKR1xx-L,  
SKR15xxx-L (Bonded)

#### Part Numbers/Colors

SKR101-L - White  
SKR102-L - Black  
SKR103-L - Lt. Gray  
SKR105-L - Dk. Gray  
SKR108-L - Tan

Float valve is not NSF certified.

### FlowStar® Skimmer with Water Stop Face and Water Bond



Part # SKR15xxx

#### Part Numbers/Colors

SKR15101 - White  
SKR15102 - Black  
SKR15103 - Lt. Gray  
SKR15105 - Dk. Gray  
SKR15108 - Tan

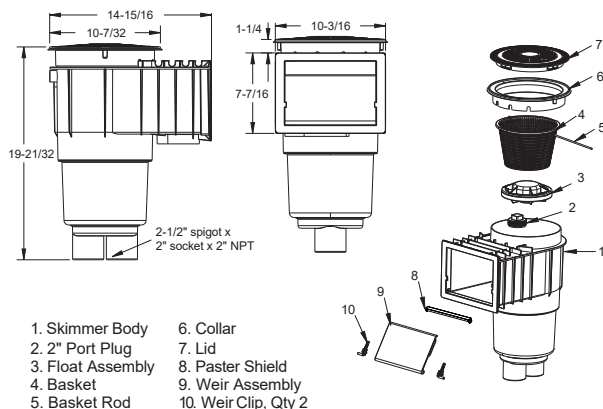
Float valve is not NSF certified.

## DIMENSIONS AND PARTS LIST

### FlowStar® Skimmer with Flush Face



Part # SKR2xx



#### Part Numbers/Colors

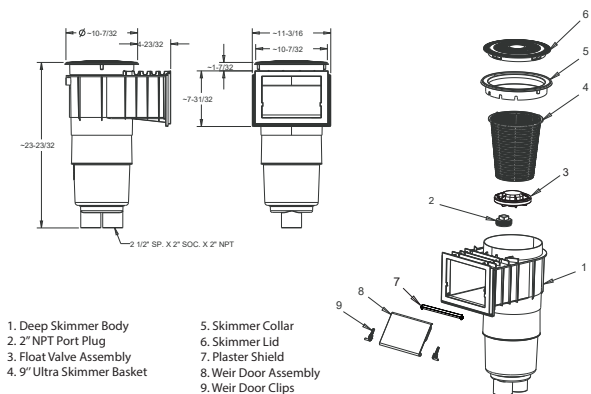
SKR201 - White  
SKR202 - Black  
SKR203 - Lt. Gray  
SKR205 - Dk. Gray  
SKR208 - Tan

Float valve is not NSF certified.

### FlowStar® Skimmer with Flush Face and 9" Ultra Basket (Optional Water Bond)



Part # SKR2xx-L,  
SKR17xxx-L (Bonded)



#### Part Numbers/Colors

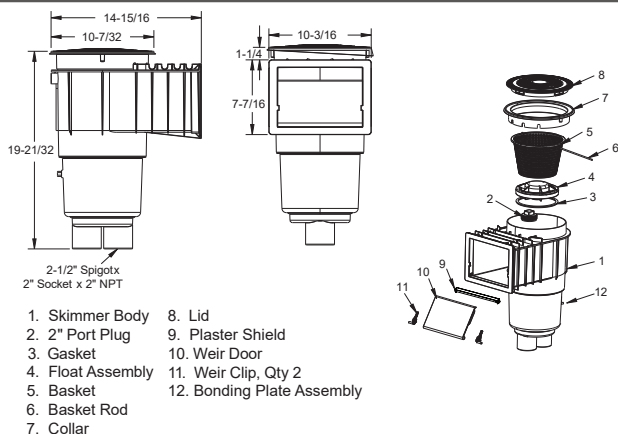
SKR201-L - White  
SKR202-L - Black  
SKR203-L - Lt. Gray  
SKR205-L - Dk. Gray  
SKR208-L - Tan

Float valve is not NSF certified.

### FlowStar® Skimmer with Flush Face and Water Bond



Part # SKR17xxx



#### Part Numbers/Colors

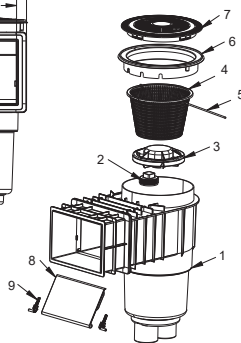
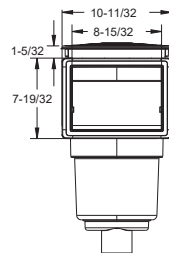
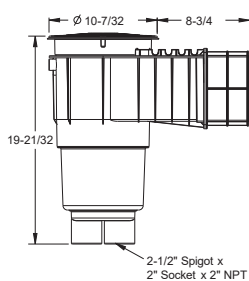
SKR17101 - White  
SKR17102 - Black  
SKR17103 - Lt. Gray  
SKR17105 - Dk. Gray  
SKR17108 - Tan

Float valve is not NSF certified.



## DIMENSIONS AND PARTS LIST

### FlowStar® Skimmer with Flush Face 4" Extension



- |                                   |                     |
|-----------------------------------|---------------------|
| 1. Skimmer Body With 4" Extension | 6. Collar           |
| 2. 2" Port Plug                   | 7. Lid              |
| 3. Float Assembly                 | 8. Weir Assembly    |
| 4. Basket                         | 9. Weir Clip, Qty 2 |
| 5. Basket Rod                     |                     |

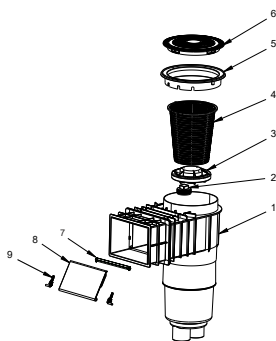
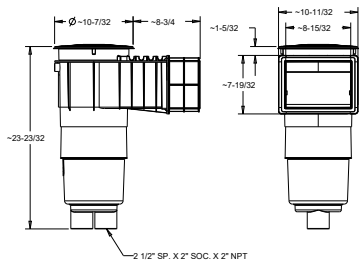
Part # SKR14xxx

#### Part Numbers/Colors

SKR1401 - White  
SKR1402 - Black  
SKR1403 - Lt. Gray  
SKR1405 - Dk. Gray  
SKR1408 - Tan

Float valve is not NSF certified.

### FlowStar® Skimmer with Flush Face 4" Extension with 9" Ultra Basket



- |  |                       |
|--|-----------------------|
| 1. Deep Skimmer Body With 4" Extension | 5. Skimmer Collar     |
| 2. 2" NPT Port Plug                    | 6. Skimmer Lid        |
| 3. Float Assembly                      | 7. Plaster Shield     |
| 4. 9" Ultra Skimmer Basket             | 8. Weir Door Assembly |
|  | 9. Weir Door Clips    |

Part # SKR14xxx-L

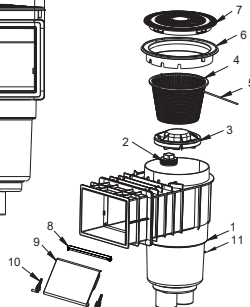
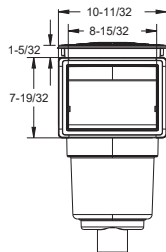
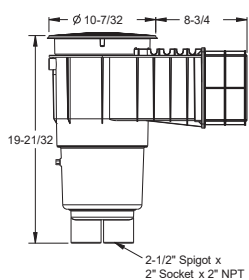
Part # SKR32xxx-L (Bonded)

#### Part Numbers/Colors

SKR1401-L - White  
SKR1402-L - Black  
SKR1403-L - Lt. Gray  
SKR1405-L - Dk. Gray  
SKR1408-L - Tan

Float valve is not NSF certified.

### FlowStar® Skimmer with Flush Face 4" Extension and Water Bond



- |                                   |                            |
|-----------------------------------|----------------------------|
| 1. Skimmer Body With 4" Extension | 6. Collar                  |
| 2. 2" Port Plug                   | 7. Lid                     |
| 3. Float Assembly                 | 8. Plaster Shield          |
| 4. Basket                         | 9. Weir Assembly           |
| 5. Basket Rod                     | 10. Weir Clip, Qty 2       |
|                                   | 11. Bonding Plate Assembly |

#### Part Numbers/Colors

SKR3201 - White  
SKR3202 - Black  
SKR3203 - Lt. Gray  
SKR3205 - Dk. Gray  
SKR3208 - Tan

Float valve is not NSF certified.

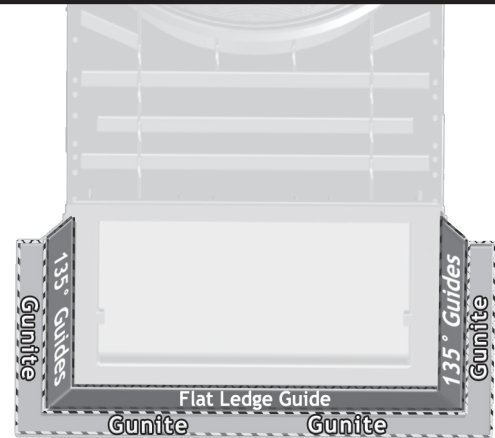
## WATER STOP FACE INSTALLATION

AquaStar's Flow Star Skimmer with Water Stop Face provides extra protection against leaks and features 135 degree and bottom flat ledge guides for consistent mouth construction.

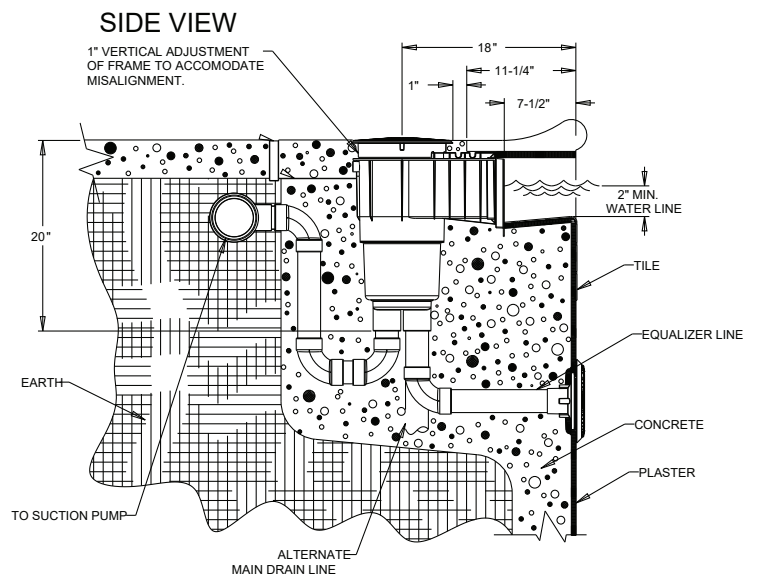
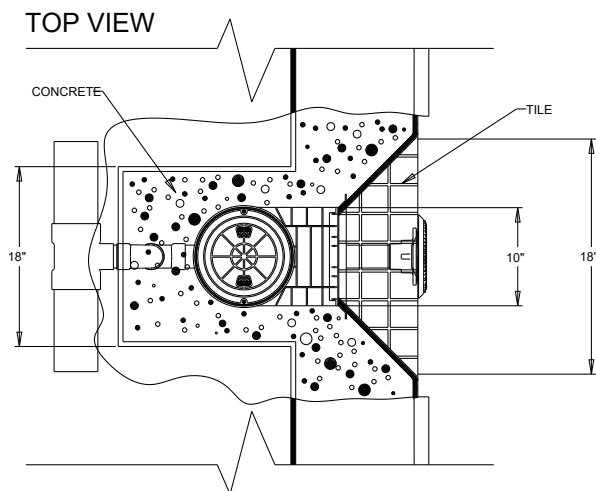
To install cover the outer-most flange of the water stop in gunite. Keep 135 degree and flat ledge guide exposed. Apply thin-set directly on top of the water stop 135° and flat ledge guides. Cover in thin-set and tile over if desired.

**Light Grey Area**  
Cover in gunite.

**Dark Grey Area**  
Keep exposed during  
gunite. Cover in thin-set  
and tile over if desired.



## INSTALLATION DIMENSIONS



## LIMITED WARRANTY

Skimmers manufactured by AquaStar are warranted to be free of defects in material and workmanship for one year from date of installation. The foregoing warranties relate to the original consumer purchaser ("Purchaser") only. AquaStar shall have the option to repair or replace the defective product, at its sole discretion. Purchasers must pay all labor and shipping charges necessary to replace the product covered by this warranty. Requests for warranty service must be made through the installing dealer. This warranty shall not apply to any product that has been subject to negligence, misapplication, improper installation or maintenance, or other circumstances which are not in AquaStar's direct control. This warranty sets forth AquaStar's sole obligation and Purchaser's exclusive remedy for defective products. AQUASTAR SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR CONTINGENT DAMAGES WHATSOEVER. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND SHALL NOT EXTEND BEYOND THE DURATION OF THE APPLICABLE EXPRESS WARRANTIES PROVIDED HEREIN. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Supersedes all previous publications.