

# MEGA LITE

# HĀLO ™



## USER MANUAL

### Table of Contents

Safety Information.....	3
Specifications.....	4
Features.....	5
Main Power Connection.....	6
DMX-512 Connection.....	6
Main Control Menu.....	7
DMX Profile.....	8
Cleaning & Maintenance.....	10
Parts List.....	10



Check that the unit has not been damaged during transport



Read all cautions and warnings  
prior to operation of this  
equipment

#### Protection Against Fire



Fire

1. Maintain a minimum of 1 foot distance from any type of flame.
3. Replace fuse only with the specified type and rating.
4. Do Not install the unit too close to a heat source.
5. Make sure cables are properly secured away from unit movement.
6. Maximum surface operating temperature 104°.

#### Protection Against Fire



Electrical

1. Disconnect power before lamp replacement or servicing.
2. For connection to main power supply proceed to page 6.
3. This unit must be earthed. (electronically grounded)
4. Do not expose unit to rain or moisture.

#### Protection Against Mechanical Hazards



Mechanical

1. Use safety chain when hanging unit.
2. Use quality clamps or bolts when positioning unit.
3. Do not open unit risk of electrical shock.

# Specifications

## Part Numbers

### Fixture

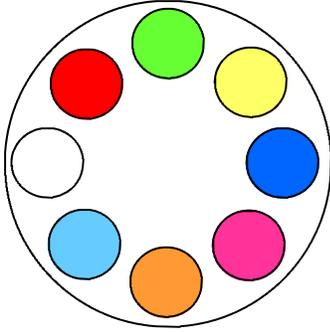
1200-Halo 5r

## Mechanical Specifications

Lamp:	Phillips 5R lamp
LED lamp:	16 RGB Series 3in1 LED's
Pan:	480°
Tilt:	280°
Rotating Gobo:	1 Rotating Gobo wheel 7 Gobos + open Gobo flow effect Gobo roto bounce effect Bi-directional gobo rotation
Color Wheel:	Color Wheel with 7 colors + open Rainbow flow effect
Iris:	Adjustable Iris
Prism:	8 face rotating Prism
Focus:	Mechanical
LED Control:	LED control of 4 sections on 32 Channel Mode
DMX Connectors:	3 pin XLR connector in and out
Power Connection:	Neutrik Power Conn in and out
Fastening System:	2 Quick release mounts
Center Beam Angle:	12°
LED Beam Angle:	45° [optional 25°]
Power:	Auto switching 100ac to 240ac 50-60 Hz
Power Supply:	Electronic
Protocol:	DMX 512
DMX Channels:	Mode 1 15 Channels Mode 2 19 Channels Mode 3 29 Channels



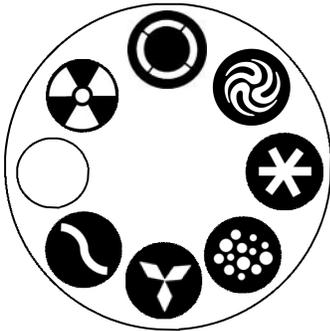
## Color



- 1: Open
- 2: Red
- 3: Green
- 4: Yellow
- 5: Blue
- 6: Magenta
- 7: Orange
- 8: Light Blue

## Gobo's

### Rotating Gobo Wheel

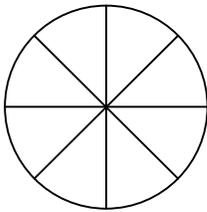


- 1: Open
- 2: Gobo 1
- 3: Gobo 2
- 4: Gobo 3
- 5: Gobo 4
- 6: Gobo 5
- 7: Gobo 6
- 8: Gobo 7

Note: Gobos are not replaceable

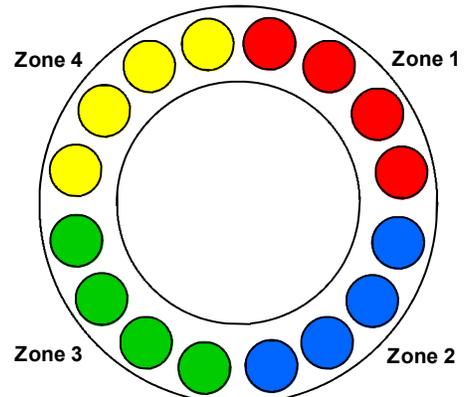
## Prism

### 1-8 Face Rotating Prism



## LED's

In 29 Channel Mode you have control over 4 zones of the LED ring



## Main Power Connection

### Caution!

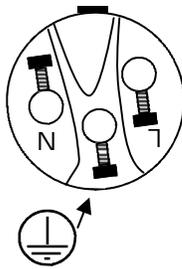
1. Do not connect fixture to a dimmer system.
2. This unit must be earthed. (electronically grounded)
3. Replace fuse only with the specified type and rating.

This device is equipped with a auto switching power supply that will allow you to work from 100V-240V 50/60Hz

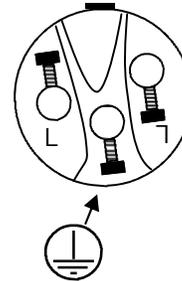
The occupation of the connection-cable is as follows:

Cable (USA)	Cable (EU)	Pin	110V	220V
Black	Brown	Live	L	L
White	Light Blue	Neutral	N	L
Green	Yellow/Green	Ground		

110V  
Connection



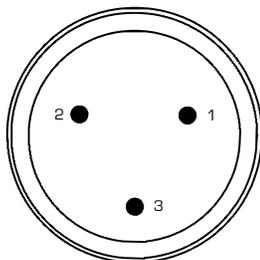
220V  
Connection



## DMX-512 Connection

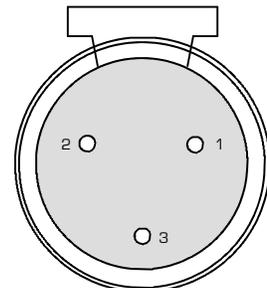
The fixture is equipped with 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

### DMX—input



1. Shield
2. Signal (-)
3. Signal (+)

### DMX—output



### Caution!

At the last fixture the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 3 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available for purchase from your Mega-Lite dealer (HOS-DMXT).

# Main Control Menu

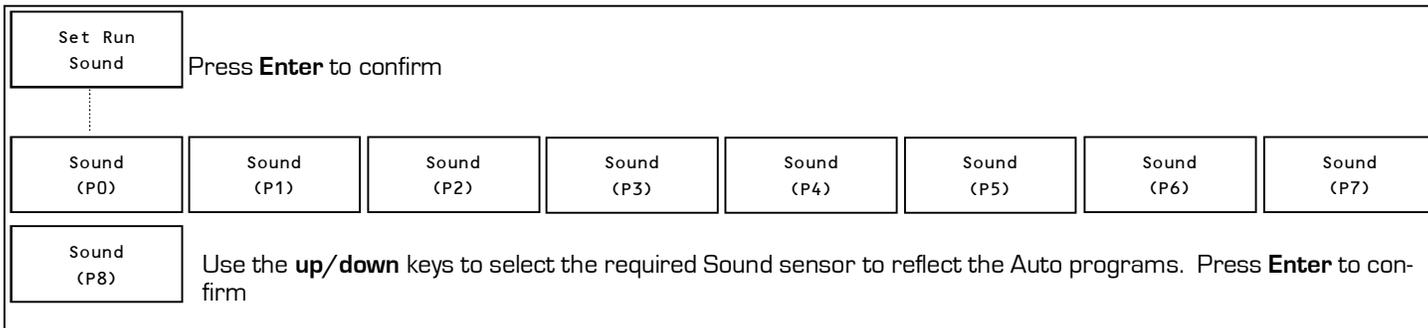
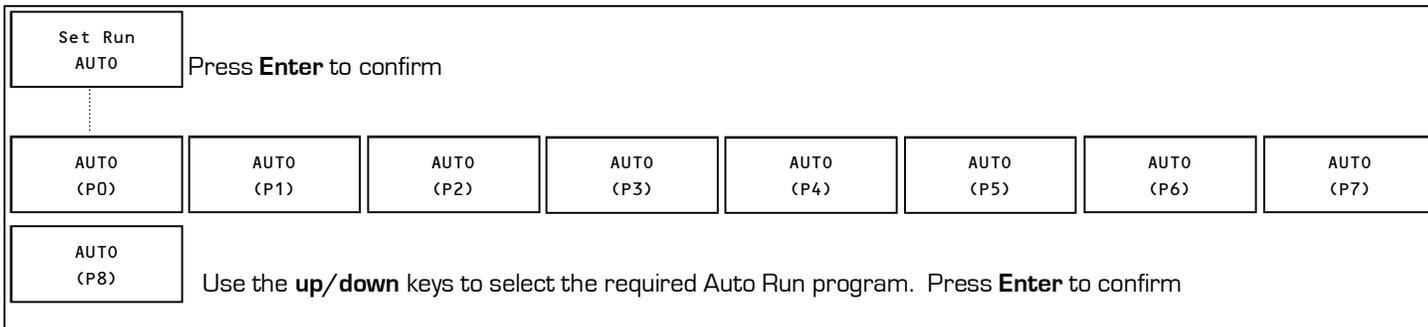
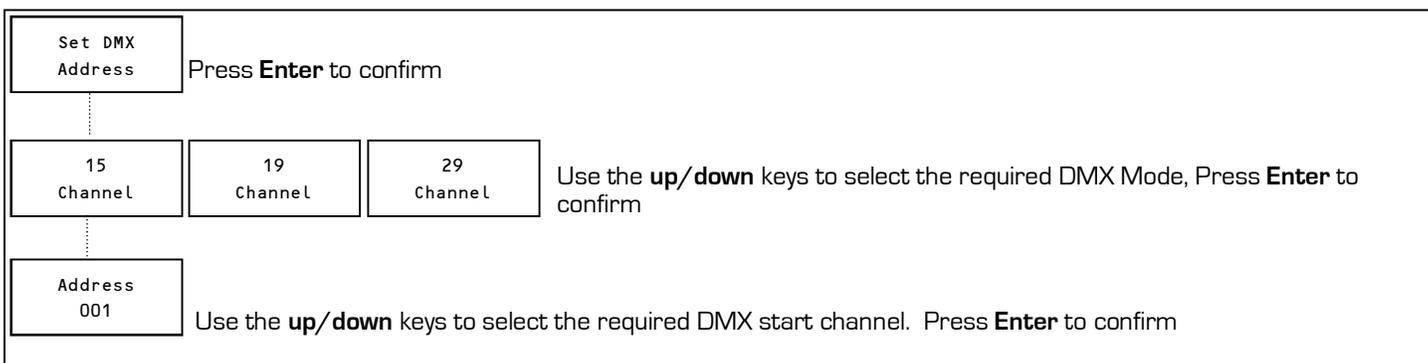
The control board on the fixture base is your interface to access and control all the functions on the unit. Its digital display gives you a code view of the options and functions. The following will explain each function and its options.



5718 Kenwick St San Antonio, TX 78238  
866-460-MEGA www.mega-lite.com



Press **Mode** continuously to select and **Enter** to confirm



Set Pan Reverse Press **Enter** to confirm

Pan (No) Pan (Yes) Use the **up/down** keys to select the Pan movements reversed. Press **Enter** to confirm

Set Tilt Reverse Press **Enter** to confirm

Tilt (No) Tilt (Yes) Use the **up/down** keys to select the Tilt movements reversed. Press **Enter** to confirm

System Reset Press **Enter** to confirm

Note: Reset function will not re-strike the lamp.

# DMX Profile

## Halo 5R 15 Channel Mode

DMX Channel	Function	Description	Value
1	Pan	Pan	0-255
2	Pan Fine	Pan Fine	0-255
3	Tilt	Tilt	0-255
4	Tilt Fine	Tilt fine	0-255
5	Pan/Tilt Speed	Fast	0-84
		Mid	85-170
		Slow	171-255
6	Control	No Function	0-249
		Reset	250-254
		No Function	255
7	Dimmer	5R Lamp 0% to 100%	0-255
8	5R lamp Shutter/ Strobe	Close	0-31
		Strobe (slow to fast)	32-95
		Open	96-127
		Pulse strobe (slow to fast)	128-158
		Open	159-191
		Random Strobe (slow to fast)	192-223
9	Colors	Open	0-15
		Red	16-31
		Green	32-47
		Yellow	48-63
		Blue	64-79
		Magenta	80-95
		Orange	96-111
		Light Blue	112-127
		Forward and Backward Rainrow Effect(slow to fast)	128-255
10	Gobo	Open	0-15
		Gobo 1	16-31
		Gobo 2	32-47
		Gobo 3	48-63
		Gobo 4	64-79
		Gobo 5	80-95
		Gobo 6	96-111
		Gobo 7	112-127
		Gobo Wheel Rotation Clockwise (slow to fast)	128-191
		Gobo Wheel Rotation Counter Clockwise (slow to fast)	192-255
		11	Gobo Rotation
Clockwise rotation (slow to fast)	1-85		
Counter Clockwise rotation (slow to fast)	86-171		
Gobo Bounce (back and forth)	172-255		
12	Iris	Iris (open to close)	0-191
		Iris Pulse (slow to fast)	192-252

13	Focus	Focus from Near to far	0-255
14	Prism	No Function	0-63
		Prism	64-255
15	Prism Rotate	No Function	0-15
		Prism Rota Clockwise (Slow to Fast)	16-136
		Prism Rota Counter Clockwise (Fast to Slow)	137-255

## Halo 5R 19 Channel Mode

DMX Channel	Function	Description	Value
1	Pan	Pan	0-255
2	Pan Fine	Pan Fine	0-255
3	Tilt	Tilt	0-255
4	Tilt Fine	Tilt fine	0-255
5	Pan/Tilt Speed	From fast to slow	0-255
6	Control	No Function	0-249
		Reset	250-254
		No Function	255
7	Dimmer	5R Lamp Dimmer 0% to 100%	0-255
8	5R lamp Shutter/ Strobe	Close	0-31
		Strobe (slow to fast)	32-95
		Open	96-127
		Pulse strobe (slow to fast)	128-158
		Open	159-191
		Random Strobe (slow to fast)	192-223
		Open	224-255
9	Colors	Open	0-15
		Red	16-31
		Green	32-47
		Yellow	48-63
		Blue	64-79
		Magenta	80-95
		Orange	96-111
		Light Blue	112-127
		Forward and Backward Rainrow Effect(slow to fast)	128-255
10	Gobo	Open	0-15
		Gobo 1	16-31
		Gobo 2	32-47
		Gobo 3	48-63
		Gobo 4	64-79
		Gobo 5	80-95
		Gobo 6	96-111
		Gobo 7	112-127
		Gobo Wheel Rotation Clockwise (slow to fast)	128-191
		Gobo Wheel Rotation Counter Clockwise (slow to fast)	192-255

11	Gobo Rotation	No Function	0-15
		Clockwise rotation (slow to fast)	16-136
		Counter Clockwise rotation (slow to fast)	137-225
		Gobo Bounce (back and forth)	172-255
12	Iris	Iris (open to close)	0-191
		Iris Pulse (slow to fast)	192-252
13	Focus	Focus from Near to far	0-255
14	Prism	No Function	0-63
		Prism	64-255
15	Prism Rotate	No Function	0-15
		Prism Rota Clockwise (Slow to Fast)	16-136
		Prism Rota Counter Clockwise (Fast to Slow)	137-255
15	Red	Red LED Dimmer (full ring)	0-255
16	Green	Green LED Dimmer (full ring)	0-255
17	Blue	Blue LED Dimmer (full ring)	0-255
18	Macros	No Function	0
		Color Fade (slow to fast)	1-19
		Color Step Chase (slow to fast)	20-39
		Red Ring Chase (slow to fast)	40-59
		Green Ring Chase (slow to fast)	60-79
		Blue Ring Chase (slow to fast)	80-99
		Random Color Fade each different (slow to fast)	100-119
		Random Color Step each different (slow to fast)	120-139
		Red Pulse (slow to fast)	140-169
		Green Pulse (slow to fast)	170-199
		Blue Pulse (slow to fast)	200-229
		White Pulse (slow to fast)	230-255
19	LED Strobe	Strobe (slow to fast)	0-255

## Halo 5R 29 Channel Mode

DMX Channel	Function	Description	Value
1	Pan	Pan	0-255
2	Pan Fine	Pan Fine	0-255
3	Tilt	Tilt	0-255
4	Tilt Fine	Tilt fine	0-255
5	Pan/Tilt Speed	From fast to slow	0-255
6	Control	No Function	0-249
		Reset	250-254
		No Function	255
7	Dimmer	5R Lamp Dimmer 0% to 100%	0-255
8	5R lamp Shutter/ Strobe	Close	0-31
		Strobe (slow to fast)	32-95
		Open	96-127
		Pulse strobe (slow to fast)	128-158
		Open	159-191
		Random Strobe (slow to fast)	192-223
		Open	224-255

9	Colors	Open	0-15
		Red	16-31
		Green	32-47
		Yellow	48-63
		Blue	64-79
		Magenta	80-95
		Orange	96-111
		Light Blue	112-127
		Forward and Backward Rainbow Effect (slow to fast)	128-255
10	Gobo	Open	0-15
		Gobo 1	16-31
		Gobo 2	32-47
		Gobo 3	48-63
		Gobo 4	64-79
		Gobo 5	80-95
		Gobo 6	96-111
		Gobo 7	112-127
		Gobo Wheel Rotation Clockwise (slow to fast)	128-191
		Gobo Wheel Rotation Counter Clockwise (slow to fast)	192-255
11	Gobo Rotation	No Function	0-15
		Clockwise rotation (slow to fast)	16-136
		Counter Clockwise rotation (slow to fast)	137-255
12	Iris	Iris (open to close)	0-191
		Iris Pulse (slow to fast)	192-252
13	Focus	Focus from near to far	0-255
14	Prism	No Function	0-63
		Prism	64-255
15	Prism Rotate	No Function	0-10
		Prism rotation Clockwise (Slow to Fast)	11-130
		Prism rotation Counter Clockwise (Slow to Fast)	131-255
16	Macros	No Function	0
		Color Fade (slow to fast)	1-19
		Color Step Chase (slow to fast)	20-39
		Red Ring Chase (slow to fast)	40-59
		Green Ring Chase (slow to fast)	60-79
		Blue Ring Chase (slow to fast)	80-99
		Random Color Fade each different (slow to fast)	100-119
		Random Color Step each different (slow to fast)	120-139
		Red Pulse (slow to fast)	140-169
		Green Pulse (slow to fast)	170-199
		Blue Pulse (slow to fast)	200-229
White Pulse (slow to fast)	230-255		
17	LED Strobe	Strobe (slow to fast)	0-255
18	Red 1	Red 1 Dimmer	0-255
19	Green 1	Green 1 Dimmer	0-255
20	Blue 1	Blue 1 Dimmer	0-255
21	Red 2	Red 2 Dimmer	0-255
22	Green 2	Green 2 Dimmer	0-255
23	Blue 2	Blue 2 Dimmer	0-255
24	Red 3	Red 3 Dimmer	0-255
25	Green 3	Green 3 Dimmer	0-255
26	Blue 3	Blue 3 Dimmer	0-255
27	Red 4	Red 4 Dimmer	0-255
28	Green 4	Green 4 Dimmer	0-255
29	Blue 4	Blue 4 Dimmer	0-255

# Cleaning and maintenance

**Installation Maintenance:** The operator has to make sure that the unit is operating safely and has the installations and electronics checked by an expert every 2 years.

The following points have to be considered during the inspection:

- 1) All screws used for installing the device or part of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, fixation and installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts like axles and other must not show any traces of wearing and must not rotate with unbalances.
- 4) The electronic power supply cables must not show any damages, material fatigue (e.g. porous cables) or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

**Disconnect from mains before starting maintenance operation!**



*Caution Danger to life!*

Electrical

We recommend a frequent cleaning of the device. Please use a moist, lint free cloth. Never use alcohol or solvents!

- 1) The objective lens will require periodic cleaning on usage and environment. Environment with foggers will require more periodic cleaning as fog fluid tends to build up residues, reducing the light output.
- 2) The cooling-fans should be cleaned monthly. DO NOT blow high pressure air into fans as incorrect rotation can damage the fans operation.
- 3) The gobos, dichroic color filters and internal lenses may be cleaned with soft brush using soapy water.
- 4) The interior of the fixture should be cleaned using a vacuum.
- 5) We recommend proper lubrication of the motor wheel. The quantity of the oil must not be excessive in order to avoid oil run outs when motor wheel rotates

**Note:** There is no serviceable parts inside the device except for the fuse. Maintenance and service operations are to be carried out by authorized dealers.

**Replacing the fuse:** Only replace the fuse with the same type and rating.

**Replacing the power cable:** If the power cable of this device becomes damaged, it has to be replaced by authorized dealers only in order to avoid hazards.

**Should you have further questions , please contact your dealer.**

## Parts List

Item #	Description
1200-PSL	Lamp Power Supply
1200-PS	Unit Power Supply
1200-IG	Lamp Ignitor
1200-PCBL	LED PCB
1200-PCBM	Main PCB
1200-PCBD	Driver PCB
1200-PCBDIS	Display PCB
1200-PCBDMX	DMX PCB
1200-FAN80	80mm fan 12V Brushless
1200-FAN60	60mm fan 12V Brushless
1200-FAN54	54mm fan 12V Squirrel Cage Brushless
1200-BEZF	Front Bezel
1200-BEZH	Head Bezel

1200-H	Handle
1200-QR	Quick release clamps (pair)
1200-PCBLED	LED 3in1 4 unit PCB (include 4 LED's)
1200-LED	LED 3in1 TX RGB single LED
1200-SENF	Focus Sensor
1200-SENPT	Pan Tilt Sensor
1200-SENRO	Sensor Gobo Rotate
1200-MOTFO	Motor Focus
1200-MOTGO	Motor Gobo
1200-MOTRO	Gobo Rotate Motor
1200-MOTCO	Color Wheel Motor
L-5R	Phillips platinum 5R Lamp

# Warranty Information

## Limited Warranty

Unless otherwise stated, your product is covered by a one year parts and labor limited warranty. Dichroic filters and glass gobos are not guaranteed against breakage or scratches to coating. It is the owner's responsibility to furnish receipts or invoices for verification of purchase, date, and dealer or distributor. If purchase date cannot be provided, date of manufacture will be used to determine warranty period.

## Returning an Item Under Warranty for Repair

It is necessary to obtain a Return Material Authorization (RMA) number from your dealer or point of purchase BEFORE any units are returned for repair. The manufacturer will make the final determination as to whether or not the unit is covered by warranty. Lamps are covered by the lamp manufacturer's warranty.

Any Product unit or parts returned to MEGA Systems Inc. must be packaged in a suitable manner to ensure the protection of such Product unit or parts, and such package shall be clearly and prominently marked to indicate that the package contains returned Product units or parts and with an RMA number. Accompany all returned Product units or parts with a written explanation of the alleged problem or malfunction. Ship returned Product units or parts to: 5711 Kenwick St. San Antonio TX 78254 USA.

*Note: Freight Damage Claims are invalid for fixtures shipped in non-factory boxes and packing materials.*

## Freight

All shipping will be paid by the purchaser. Items under warranty shall have return shipping paid by the manufacturer only in the Continental United States. Under no circumstances will freight collect shipments be accepted. Prepaid shipping does not include rush expediting such as air freight. Air freight can be sent customer collect in the Continental United States.

REPAIR OR REPLACEMENT AS PROVIDED FOR UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. MEGA SYSTEMS INC. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO ANY PRODUCT, AND MEGA SYSTEMS SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. MEGA SYSTEMS SHALL NOT BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGE, INCLUDING LOST PROFITS, SUSTAINED OR INCURRED IN CONNECTION WITH ANY PRODUCT OR CAUSED BY PRODUCT DEFECTS OR THE PARTIAL OR TOTAL FAILURE OF ANY PRODUCT REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, AND WHETHER OR NOT SUCH DAMAGE WAS FORESEEN OR UNFORESEEN. Warranty is void if the product is misused, damaged, modified in any way, or for unauthorized repairs or parts. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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