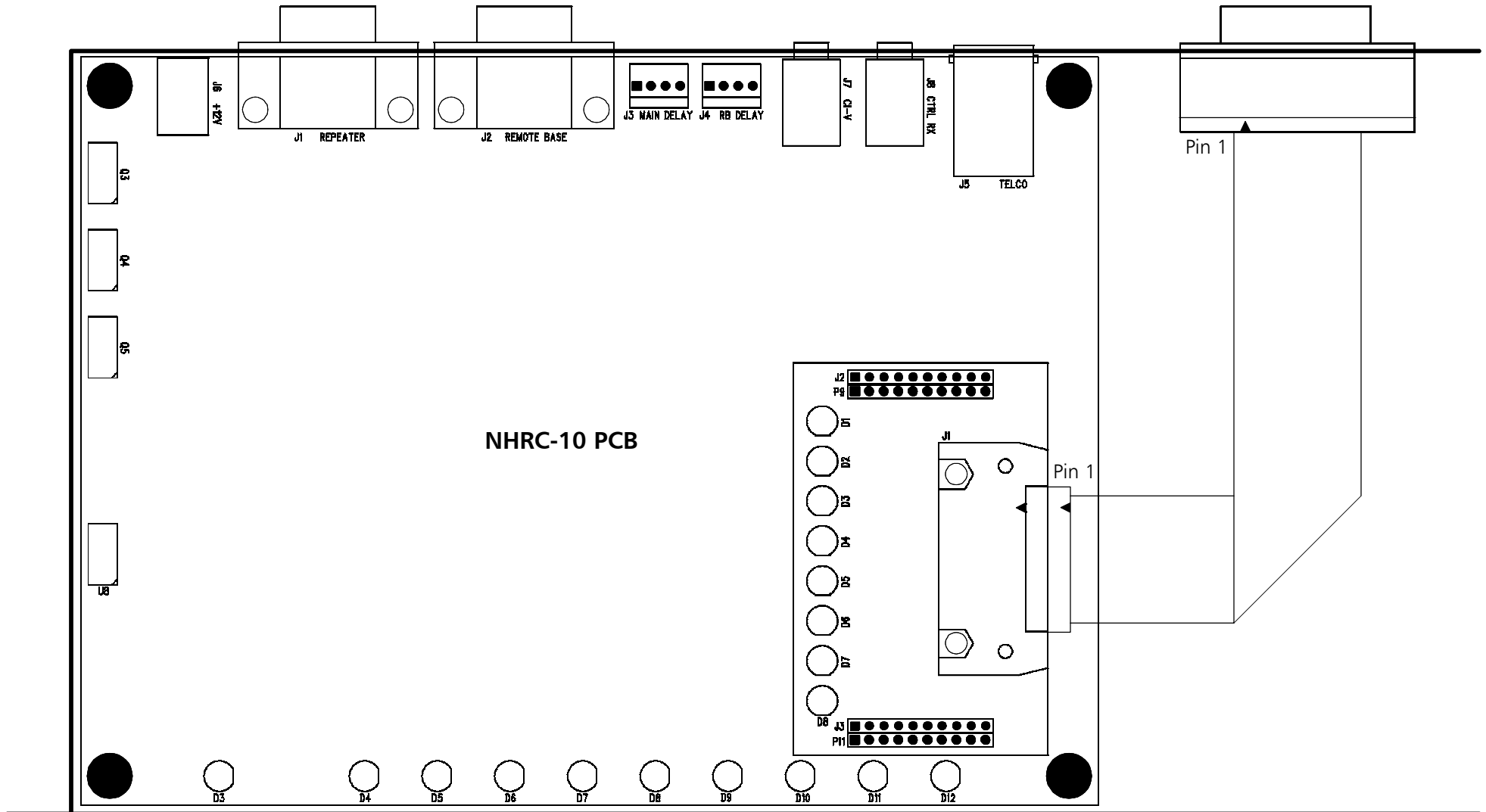


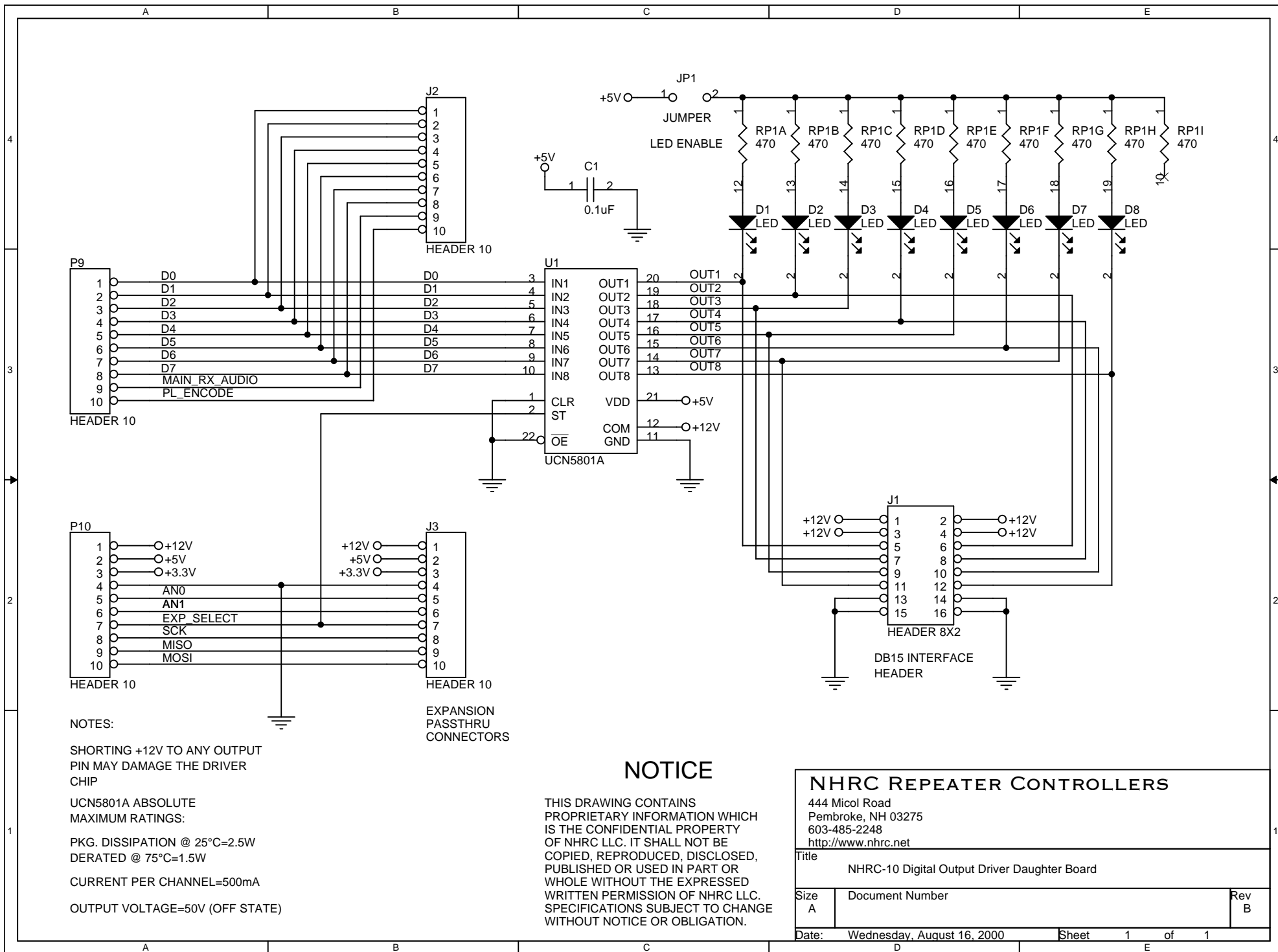
NHRC-10/DOUT

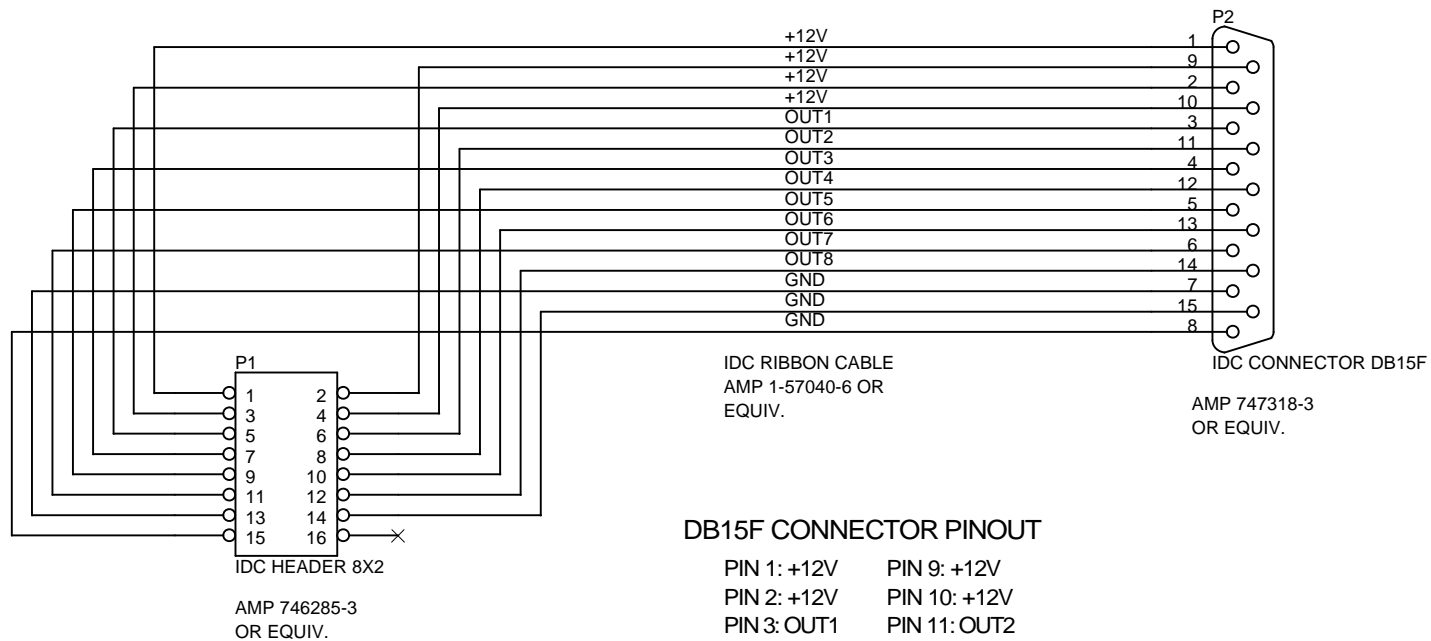
8 Port Digital Output Board for NHRC-10

Installation Guide



- 1.) Disconnect +12V power from J6 on the NHRC-10 PCB.
- 2.) Install NHRC-10/DOUT PCB as shown placing P9 and P11 of PCB onto J9 and J11 of NHRC-10 PCB. *NOTE: Be careful to align the pins properly so that they mate fully and one to one with the NHRC-10/DOUT PCB.*
- 2.) If the optional NHRC-10/CASE is being used, install DB15F connector of the cable assy. onto the back panel of the NHRC-10/CASE using supplied hardware.
- 3.) Connect 16 pin IDC connector of the cable assy onto J1 of the NHRC-10/DOUT PCB. *NOTE: Be sure to properly align Pin 1 of the connector with Pin 1 of J1.*
- 4.) Reconnect +12V power to J6 on the NHRC-10 PCB.
- 5.) Consult the NHRC-10 User's Manual for operating instructions for the NHRC-10/DOUT PCB.





DB15F CONNECTOR PINOUT

PIN 1: +12V	PIN 9: +12V
PIN 2: +12V	PIN 10: +12V
PIN 3: OUT1	PIN 11: OUT2
PIN 4: OUT3	PIN 12: OUT4
PIN 5: OUT5	PIN 13: OUT6
PIN 6: OUT7	PIN 14: OUT8
PIN 7: GND	PIN 15: GND
PIN 8: GND	

NOTICE

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NHRC REPEATER CONTROLLERS

444 Micol Road
Pembroke, NH 03275
603-485-2248
<http://www.nhrc.net>

Title NHRC-10 Digital Output Driver Daughter Board Cable Assembly		
Size A	Document Number	Rev A
Date:	Wednesday, August 16, 2000	Sheet 1 of 1

NHRC-10 Digital Output Driver Daughter Board**Bill of Materials**

Revised: Friday, August 25, 2000

Revision: B

NHRC Repeater Controllers

444 Micol Road

Pembroke, NH 03275

603-485-2248

Item	Qty.	Ref.	Schematic Value	Description	Mfg.	Mfg. P/N	Digi-Key P/N	Notes
1	1	C1	0.1uF	0.1uF 50V Z5U Ceramic Radial Cap	Panasonic	ECU-S1H104MEA	P4924-ND	or equivalent
2	8	D1	LED	Green T1¾ LED	Lite-On	LTL-4233	160-1130-ND	or equivalent
		D2	LED	Green T1¾ LED	Lite-On	LTL-4233	160-1130-ND	or equivalent
		D3	LED	Green T1¾ LED	Lite-On	LTL-4233	160-1130-ND	or equivalent
		D4	LED	Green T1¾ LED	Lite-On	LTL-4233	160-1130-ND	or equivalent
		D5	LED	Green T1¾ LED	Lite-On	LTL-4233	160-1130-ND	or equivalent
		D6	LED	Green T1¾ LED	Lite-On	LTL-4233	160-1130-ND	or equivalent
		D7	LED	Green T1¾ LED	Lite-On	LTL-4233	160-1130-ND	or equivalent
		D8	LED	Green T1¾ LED	Lite-On	LTL-4233	160-1130-ND	or equivalent
3	1	JP1	JUMPER	2 Circuit Single Row Header, .100" Straight	3M	929834-02-36	929834-02-36-ND	cut to length
4	1	J1	HEADER 8X2	16 Pin Right Angle Header	AMP	102159-3	AHR16G-ND	or equivalent
5	2	J2	HEADER 10	10 Circuit Single Row Header, .100" Straight	3M	929834-02-36	929834-02-36-ND	cut to length
		J3	HEADER 10	10 Circuit Single Row Header, .100" Straight	3M	929834-02-36	929834-02-36-ND	cut to length
6	2	P9	HEADER 10	10 Pin Single Row Female Header	3M	929974-01-36	929974-01-36-ND	cut to length
		P10	HEADER 10	10 Pin Single Row Female Header	3M	929974-01-36	929974-01-36-ND	cut to length
7	1	RP1	470	470x8 Bussed Resistor Network	Bourns	4610X-101-471	4610X-1-471-ND	or equivalent
8	1	U1	UCN5801A	8 Channel Latched Driver	Allegro	UCN5801A	N/A	or equivalent
Additional Items:								
9	1			NHRC-10 Digital Output PCB rev B	NHRC	NHRC-10/DOUT PCB	N/A	
10	1			22 Pin DIP Socket	Assmann	A22-LC-TT	AE8922-ND	or equivalent
11	1			16 Pin IDC Socket Connector	AMP	746285-3	AKC16G-ND	or equivalent
12	1			16 Circuit 0.050" Ribbon Cable (1ft. Piece)	AMP	1-57040-6	AC16G-100-ND	or equivalent
13	1			DB15F IDC Connector	AMP	747318-3	AFS15G-ND	or equivalent
14	1			Shorting Jumpers	3M	929950-00-I	929950-00-ND	for JP1/JP3

NOTE: Digi-Key P/N's are listed as an aid to users who require replacement parts for non-warranty repairs.

NHRC LLC Limited Warranty

NHRC LLC warrants that it's assembled and tested products will be free from defects in materials and workmanship for a period of NINETY DAYS from the date of shipment. During this period, NHRC LLC will repair or replace, at our option, any of our products that fail as a result of defects in materials or workmanship. NHRC LLC's liability will be limited to parts, labor, and return shipping for this period.

NHRC LLC warrants that it's kit products will contain components that are free from defects in materials and workmanship for a period of THIRTY DAYS from the date of shipment. During this period, NHRC will replace any of the components in a kit ONCE. Subsequent replacement of any component any subsequent times is completely at the discretion of NHRC LLC, and may require the complete return of the kit.

In no case will NHRC LLC be liable for products damaged by improper wiring (including, but not limited to, over-voltage or application of reverse polarity), physical damage resulting from misuse and/or abuse of the product, neglect, or acts of God (lightning, floods, etc.).

Unauthorized modification of a NHRC product will void the warranty on the modified product.

In no case will NHRC LLC be liable for any direct, consequential, or incidental loss or damage resulting from the use or inability to use any of it's products.

Some states or countries do not allow the limitation of incidental or consequential damages, so the paragraph above may not apply to you.

This warranty applies only to the original purchaser of the product; proof of purchase must be presented to receive warranty service.