

# **DAMASCUS CORPORATION**

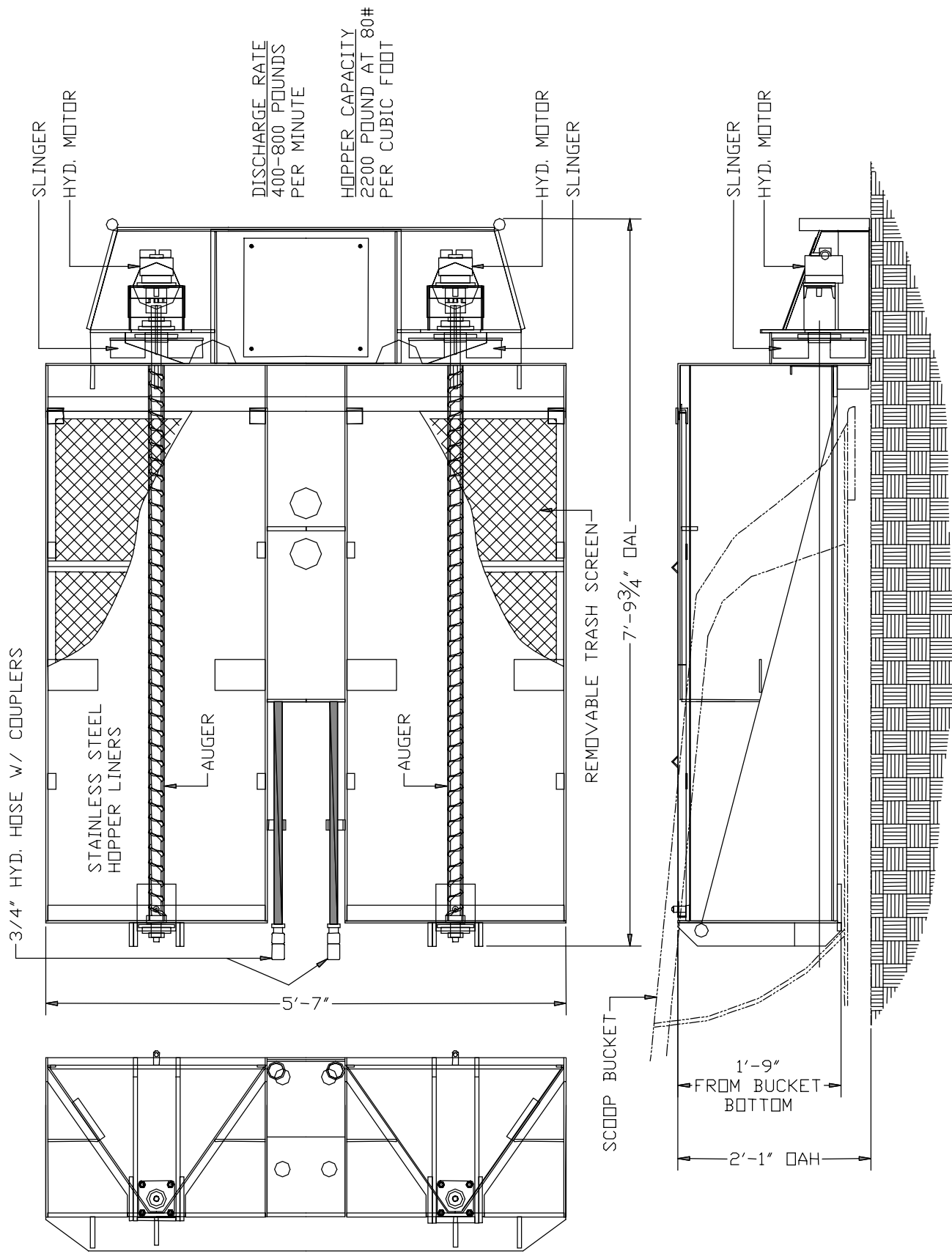
**26864 Watauga Road  
P.O. Box 610  
Abingdon, Virginia 24212  
276-676-2376**

**HYDRAULIC BROADCAST DUSTER  
BUCKET MOUNTED  
MODEL HBDG**

**"WE GET AROUND UNDERGROUND"**

**Serial Number: \_\_\_\_\_  
March, 2003**

# MODEL HBDG



**HYDRAULIC BROADCAST DUSTER  
BUCKET MOUNTED  
MODEL HBDG**

**SPECIFICATION**

**FEATURES:**

1. One man operation.
4. Large capacity hopper. 27-1/2 cubic foot hopper for 2200 pounds of rockdust at only 21 inches above the bucket bottom.
5. Steep, polished stainless steel hopper sides provide the best possible rockdust feed to the auger.
6. Simple hydraulic system with only two hydraulic motors. Each motor is driven by a split oil flow from a gear type flow divider. This system applies power to the auger requiring it most, yet keeping their speed the same. There is less heat build-up than with other types of flow dividers. A relief system is also incorporated to protect the duster's hydraulics as well as those of the scoop. Hydraulic requirements are 13 to 20 GPM, 1500 PSI, 3000 PSI maximum.
7. Discharge rate is 400 to 600 pounds per minute depending on the hydraulic flow supplied.
8. Discharge pattern is adjustable. Flow rate is adjustable.
9. Easily removable hopper screens with bag busters are standard.
10. Heavy duty frame construction with adequate guards for all components.
11. Comes complete with 3/4" hydraulic hoses and quick couplers for connection to scoop.
12. Ninety (90) day warranty with ready parts back-up.
13. Damascus Corporation principles of sound design and quality material, workmanship and service.

## **OPERATING INFORMATION FOR HYDRAULIC BROADCAST DUSTER.**

Slide scoop bucket between the bottom of the Broadcast Duster and the skids, if so equipped.

Note that one hydraulic hose on the duster is marked "Pressure" and the other "Return". Connect these hoses to their respective connections on the scoop. Be careful to wipe the couplers free from dirt that will harm the hydraulic system.

Clean out any trash from the hopper. With the hopper screens in place, fill the hoppers with rockdust. Fill hoppers as close to where you want to start dusting as possible. This will give the most even and trouble free application. When tramming a long distance, the dust will pack in the hopper making even flow more difficult. Should dust pack, auger wrenches are provided at the end of each hopper to free the augers. Bags may be opened by dropping the bags on the bag busters on the center bars of the screens. The rockdust should be relatively dry and free from lumps.

Place the Broadcast Duster in the airway so that the air travel will carry the rockdust away from the scoop operator and the scoop is backing away from the dust. Be sure that there are no personnel downstream of the duster. Keep the bucket as level as possible while tramming.

Turn on the scoop hydraulic PTO and tram. Tram speed will determine the amount of application. If dust application is too heavy, there are gates at the discharge end of each auger that can be adjusted down to cut the dust discharge.

**NOTE:** The Broadcast Duster's hydraulic system will operate in one direction only. If the augers do not turn, reverse the scoop's PTO lever or switch the hydraulic hose connections.

The dust pattern can be adjusted by sliding the baffle over the spinner one way or the other.

When dusting is completed, RUN ALL OF THE DUST OUT OF THE HOPPER.

**CAUTION!!** Keep hands and all other objects away from the augers and spinners after making hydraulic hose connections.

Be sure all personnel are out of the rockdust discharge area and at a safe distance before starting the Broadcast Duster.

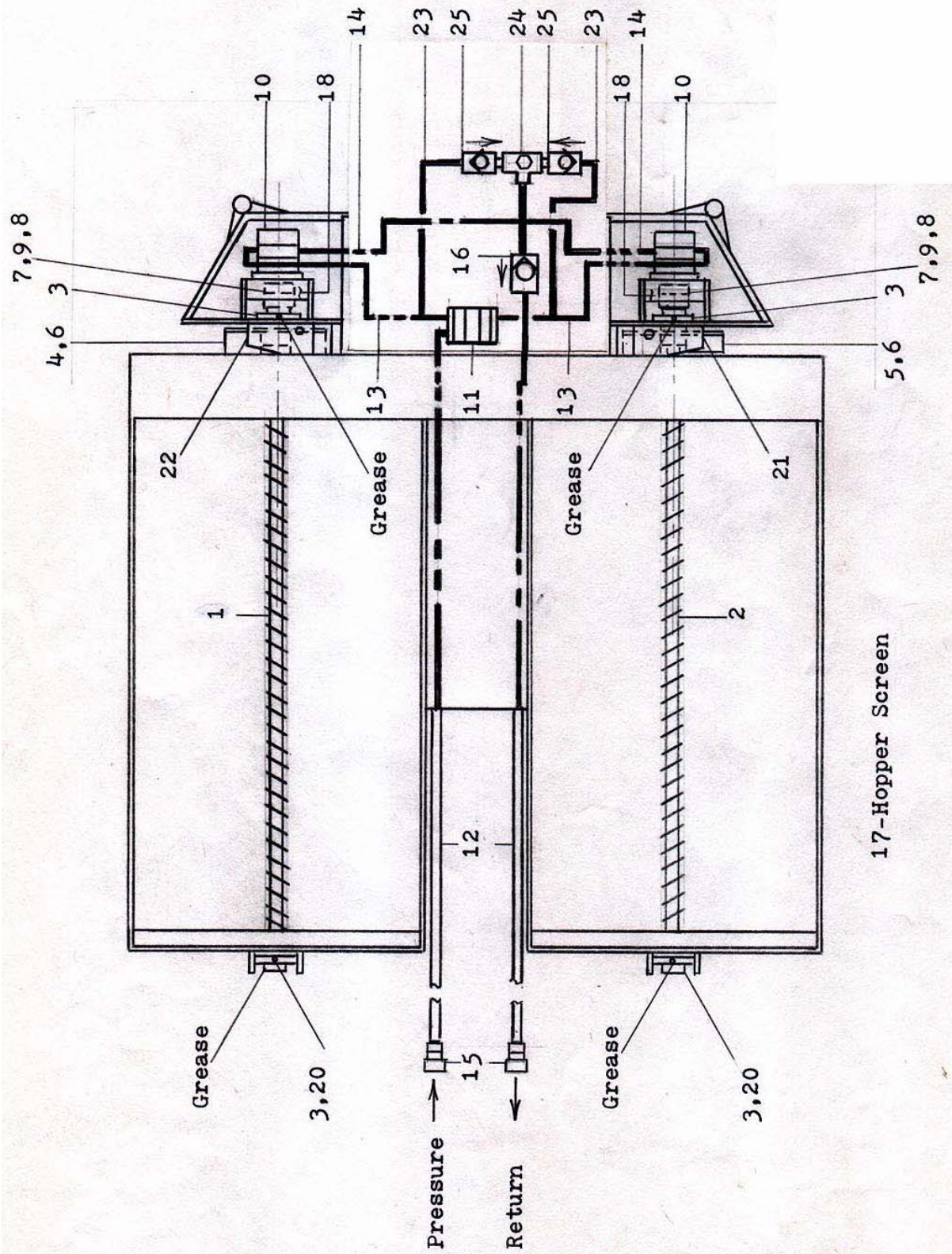
## **HYDRAULIC BROADCAST DUSTER MAINTENANCE**

Grease auger shaft bearings weekly. When grease appears at the seal area, the bearing contains the correct amount of grease.

Empty hopper at the end of each use. Dust left in the hoppers will draw moisture and settle. Rockdust can become compacted enough to stall the augers. If this happens, clean out the hoppers and free the augers.

Keep hopper screens in place to prevent trash from entering the hoppers and fouling the augers and spinners.

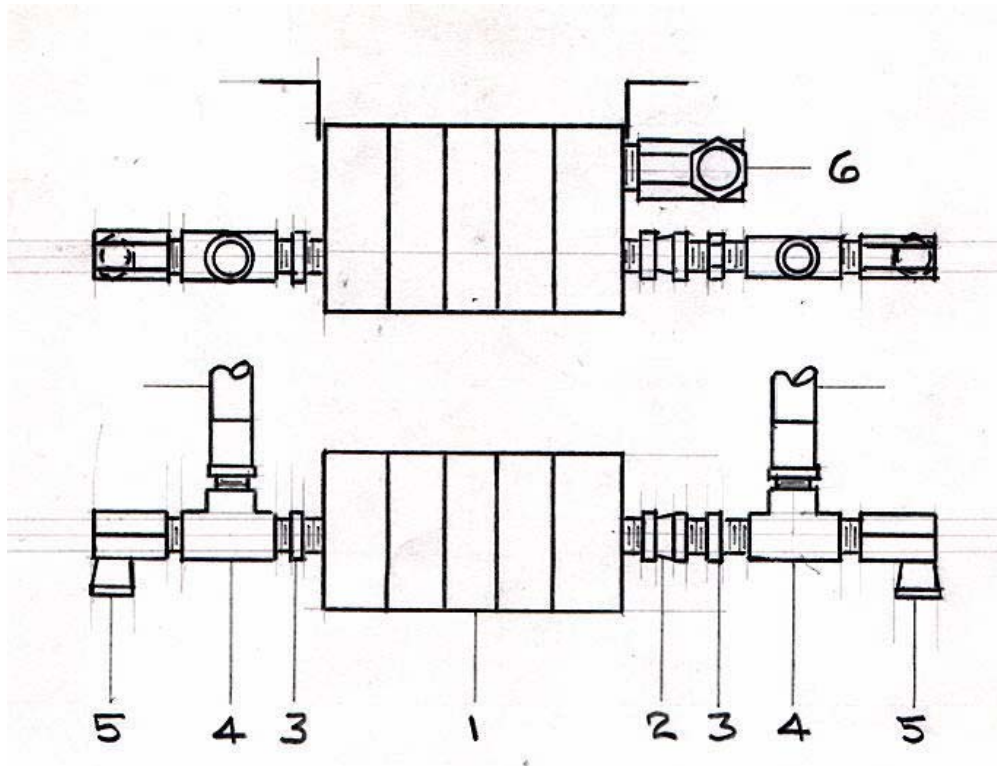
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### HYDRAULIC BROADCAST DUSTER, REPLACEMENT PARTS

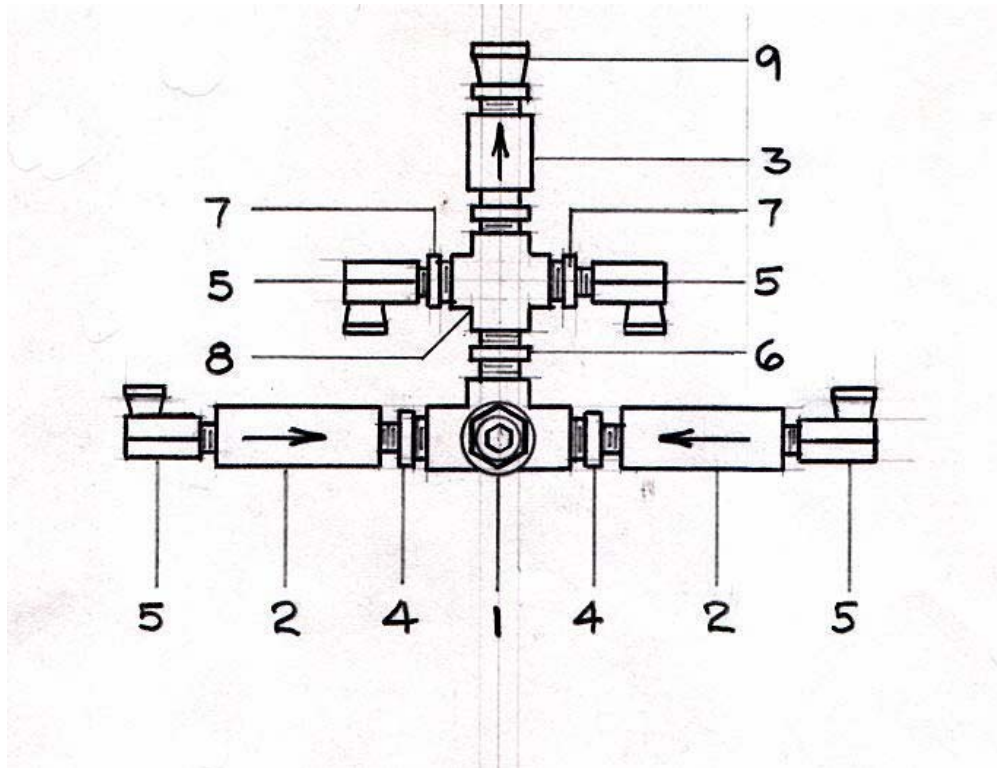
Item No.	Part Number	Description	Qty
1	M022	Auger LH Screw	1
2	M023	Auger RH Screw	1
3	M029	Bearing	4
4	M024	Slinger LH	1
5	M025	Slinger RH	1
6	M030	Bushing, Taper Lock	2
7	M031	Coupling Half 1 1/4"	2
8	M032	Coupling Half 5/8"	2
9	MOO1-1	Coupling Insert	2
10	POO2x1	Hydraulic Motor	2
11	VO10	Flow Divider	1
12	F008x6x150	Hydraulic Hose	2
13	FOO8x4x32	Hydraulic Hose	2
14	FOO8x4x32	Hydraulic Hose	2
15	FOO2	Quick Coupler, Female (Std.)	2
	FOO3	Quick Coupler, Male (Opt.)	2
16	VO11	Check Valve	1
17	MO33x2-8A	Hopper Screen	2
18	SO13-9-1	Coupling Guard	2
19	SO13-21	Cover	1
20	MO34	Bearing Spacer	4
21	SO29-27R	Adjustable Baffle RH	1
22	SO29-27L	Adjustable Baffle LH	1
23	FOO8x4x26	Hydraulic Hose	2
24	VO14	Relief Valve	1
25	VO15	Check Valve	2
26	MO36	Auger Wrench	2



**FLOW DIVIDER ASSEMBLY  
DRAWING NO. VO16**

Item No.	Part Number	Description	Qty
1	VO10	Flow Divider	1
2	1404-8	Adapter	1
3	5404-8	Hex Nipple	2
4	5605-8	Tee	2
5	1501-8	Adapter 90°	2
6	1501-12	Adapter 90°	1
7	5222-8x26N	Hose	2





### RELIEF ASSEMBLY DRAWING NO. VO17

Item No.	Part Number	Description	Qty
1	VO14	Relief Valve, Set 2000	1
2	VO15	Check Valve	2
3	VO11	Check Valve	1
4	5404-12-8	Hex Nipple	2
5	1501-8	Adapter	4
6	5404-12	Hex Nipple	1
7	5406-12-8	Bushing	2
8	5652-12	Cross	1
9	1404-12	Adapter	1

# **DAMASCUS CORPORATION**

## **LIMITED WARRANTY**

### **WHAT DOES THE WARRANTY COVER?**

This warranty covers any defects in material and workmanship with the exceptions stated below.

### **HOW LONG DOES THE COVERAGE LAST?**

This warranty lasts for ninety (90) days from the time you received your Damascus Corporation product.

### **WHAT IS NOT COVERED BY THIS WARRANTY?**

Tires, water damage, abuse, misuse, or damage resulting from an act of God (such as a flood) are not covered. Also, incidental and consequential damages are not recoverable under this warranty.

### **HOW CAN YOU GET SERVICE?**

Contact the Damascus Corporation distributor where you bought the product or call Damascus Corporation at 276-676-2376. Please have the model number and serial number of your product ready.

### **HOW STATE LAW RELATES TO THIS WARRANTY.**

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.