

Thank you for purchasing an American built product.

OWNER'S

MANUAL

POWER

SHREDDER

Model Numbers

243-650A

24650U

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LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

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

WARNING TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.



It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

fhis unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

SAFE OPERATION PRACTICES FOR POWER SHREDDERS

TRAINING

- 1. The operator should become fully familiar with all of the different sections of this owner's manual before attempting to operate this equipment.
- 2. Children must never be allowed to operate this equipment.
- 3. This equipment should never be operated in the vicinity of children, pets or other persons.
- 4. Never run your machine in an enclosed area as the exhaust from the engine contains carbon monoxide, which is an odorless, tasteless and deadly poisonous gas.
- 5. Never allow your hands or any part of your body or clothing inside the feeding chamber, discharge chute, or near any moving part while the machine or engine is running.
- 6. If it is necessary for any reason to inspect or repair
- the feeding chamber or any part of the machine where a moving part can come in contact with your body or clothing, stop the machine, allow it to cool, and disconnect the spark plug wire from the spark plug before attempting such inspection or repair.

PREPARATION

- 1. It is recommended that the operator of this equipment obtain and wear safety glasses at all times while operating the machine.
- 2. Wear proper apparel. Avoid wearing loose fitting clothing.
- 3. This machine should be operated only upon an earthen level surface.
- 4. Assure that all screws, nuts and bolts and other fasteners are properly secured.

OPERATION

- 1. When feeding shreddable material into this equipment, be extremely careful that pieces of metal, rocks, bottles, cans or other foreign objects are not included.
- If the cutting mechanism strikes any foreign object or if your machine should start making an unusual noise or vibration, immediately stop the engine and disconnect the spark plug wire from the spark plug. Allow the machine to stop and take the following steps:

- A. Inspect for damage.
- B. Replace or repair any damaged parts.
- C. Check for any loose parts and tighten to assure continued safe operation.
- 3. The engine must be kept clean of debris and other accumulations.
- 4. Do not allow an accumulation of processed material to build up in the discharge area as this will prevent proper discharge and can result in kickback from feed opening.
- 5. Never allow your hands or any other part of your body or clothing inside the feeding chamber, discharge chute or near any moving part while the engine is running.
- 6. Keep all guards and deflectors in place and in good working condition to assure continued safe operation.
- 7. Always stand clear of the discharge area when operating this machine.
- 8. Keep your face and body back from the feed opening to avoid accidental bounce back of any material.
- 9. Do not over-reach. Keep proper balance and footing at all times.
- 10. The engine governor settings on your machine must not be altered, changed, or tampered with. The governor controls the maximum safe operating speeds and protects the engine and all moving parts from damage caused by overspeed.
- 11. Do not transport machine while engine is running.

MAINTENANCE AND STORAGE

- 1. When this equipment is stopped for servicing, inspection, storage or to change an accessory, make sure the spark plug wire is disconnected from the spark plug. The machine should be allowed to cool down before making such inspection, adjustments, service, etc. Maintain your machine with care and keep it clean for the best and continued safe operation.
- 2. When not in use, your machine should be stored out of the reach of children. Keep where gasoline fumes will not reach an open flame or spark. For long periods of storage, the gasoline should be drained and disposed in a safe manner. Always allow the machine to cool before storing in any enclosure.



The right and left side of your shredder is determined from operator's position.



FIGURE 1

ASSEMBLY INSTRUCTIONS

TOOLS REQUIRED FOR ASSEMBLY

- (1) 7/16" Open End or Box Wrench
 (1) 1/2" Open End or Box Wrench
- 3. (1) Adjustable Wrench
- -1. Remove the shredder, hardware pack and all parts and literature from the carton before discarding carton.



- Hex washer head self-tapping screws A (3)
- B (4) Hex screws 1/4-20 x 1/2" long
- Hex center lock nuts 1/4-20 thread C (4)
- Hex screws 1/4-20 x 1/2" long D (4)
- Lock washers 1/4" screw E (4)
- F (4) Hex center lock nuts 1/4-20 thread





FIGURE 3

- 2. Place the chute deflector in position on the left hand side of shredder.
- •3. Secure with four hex screws (D), lock washers (E) and hex center lock nuts (F). Heads of screws are assembled from the inside. Nuts and washers go on the outside. Start all four screws, nuts and washers by hand, then tighten with an adjustable wrench and 7/16" wrench. See figure 3.



4. Place the hopper on the shredder. Start all three self-tapping screws (A) by hand, then tighten with a 1/2" wrench. See figure 4.

FIGURE 4



- 5. Loosen the hand knob on the right hand side of the shredder. See figure 5.
- 6. Place upper guide extension in place on guide extension. Secure with four hex screws (B) and hex center lock nuts (C). A 7/16" wrench and adjustable wrench are required. See figure 5.

FIGURE 5



FIGURE 6

7. Place the bag over the chute deflector. Pull on the drawstring and lock. See figure 6.

OPERATION

BEFORE STARTING ENGINE

- 1. Fill fuel tank with fresh regular gasoline. Do not mix oil with gasoline.
- 2. Fill crankcase with oil. Refer to separate engine manual packed with your shredder.

A warm engine may not require choking.



FIGURE 7

- 3. Pull rewind starter using a quick full arm stroke. Keep a firm grip on the handle and return rop slowly.
- 4. After engine starts, move choke lever on carburetor gradually to "OFF" position.

TO START ENGINE

- 1. Place control lever (on engine) in "RUN" position. See figure 7.
- 2. For cold engine start, move carburetor control to "CHOKE" position. See figure 7.

TO STOP ENGINE

- 1. Move control lever to "STOP" position. See figure 8.
- Remove high tension wire from spark plug to prevent accidental starting while equipment is unattended.



FIGURE 8

USING YOUR SHREDDER

Your shredder is designed for safe, efficient operation. CARE MUST BE EXERCISED THAT HANDS ARE KEPT AWAY FROM ALL OPENINGS.



The manufacturer recommends that the operator wear safety glasses or some other suitable eye protection as it is possible for chips to be ejected out of the inlet openings while feeding material.



FIGURE 9. UPPER GUIDE EXTENSION ADJUST-MENT.

Your shredder upper guide extension is adjustable. It may be adjusted to desired height by loosening the hand knob as shown in figure 9. Upper guide extension can be raised to close opening if hopper is not installed.

Feed the material so that it slides down upper guide extension. See figure 10.



FIGURE 10. FEEDING MATERIAL INTO UPPER GUIDE EXTENSION

Leaves and small twigs can be raked into the upper guide extension when the upper guide extension is lowered. See figure 11.



FIGURE 11. RAKING LEAVES AND TWIGS INTO UPPER GUIDE EXTENSION

Bulky material, such as stalks or heavy branches, should be fed into the chip-it guide extension. See figure 12. Do not force or jam material into the chip-it guide.



FIGURE 12. FEEDING MATERIAL INTO CHIP-IT GUIDE

Leaves and smaller branches can be fed into the hopper. See figures 13 and 14.



FIGURE 13. FEEDING MATERIAL INTO HOPPER



FIGURE 14. FEEDING MATERIAL INTO HOPPER



Do not deposit material larger than 1/2'' diameter in hopper. This may cause damage to the shredding mechanism. Any material heavier than 1/2'' should be fed into the chip-it guide extension. See figure 12.

It is possible to feed too fast. It will take some experimenting with feeding rates to get the most out of your shredder without stalling the engine. Rotate the material. A steady flow of material provides the best results.

Under certain conditions, it may be necessary to push the materials into the inlet guide assembly. When this becomes necessary, use a small diameter stick --NOT YOUR HANDS. The stick should be of a size that will be ground up if it gets into the impeller assembly.

The discharge chute will direct the shredded material into a pile, a container or the bag.



Your shredder is equipped with a nylon bag with drawstring lock. This will accommodate a perforated disposable plastic bag.



Keep away from the chute area since the shredded material comes out with considerable velocity. Always stop engine and disconnect spark plug wire when changing bags.

ADJUSTMENTS



If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

CARBURETOR ADJUSTMENTS

Do not make unnecessary adjustment. Factory set tings are correct for most applications. If adjustments are needed, refer to the engine manual packed with your shredder.

LUBRICATION

NHEELS - The wheels require no lubrication.

ENGINE - Follow engine manual for lubrication structions.

MAINTENANCE

Always stop engine and disconnect spark plug wire before performing any maintenance.

CUTTING BLADE

The blade may easily be removed for grinding or replacement as follows:

- 1. Remove guide extension assembly by removing four elastic lock nuts (Ref. No. 11). See page 10.
- Remove bolt (Ref. No. 38), lock washer (Ref. No. 37) flat washer (Ref. No. 36) which holds blade (Ref. No. 45), and blade retainer (Ref. No. 48) to engine crankshaft. See page 10.





Blade is reversible and can be assembled to crankshaft with either side showing.

When sharpening blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the unit. Upon reassembly, make certain all parts are assembled properly and tightened securely.

FLAILS AND FINGERS

The flails and fingers can be reversed when they become dull.

ENGINE OIL

- Change oil in crankcase after first two (2) hours of operation. Then change oil every twenty-five (25) operating hours or sooner if equipment is operated in extremely dusty or dirty conditions.
- Unscrew oil drain plug located on the side at the ottom of the engine (see figure 15). Always tip engine towards oil drain hole. Be sure oil drains completely.

Replace oil drain plug and refill with oil as directed on page 6.



FIGURE 15

2. Check oil every five (5) operating hours or each time equipment is used. Add oil as necessary to keep level full to point of overflowing.

CLEAN ENGINE

Clean cylinder fins and underside of tank or housing thoroughly of all accumulated grass and debris. This is an aircooled engine which operates most effeciently when the cooling fins are clean.

AIR CLEANER

The air cleaner prevents damaging dirt, dust, etc. from entering the carburetor and being forced into the engine and is important to engine life and performance.

To service air cleaner, refer to the engine manual packed with the shredder.

NEVER RUN YOUR ENGINE WITHOUT AIR CLEANER COMPLETELY ASSEMBLED.

OFF-SEASON STORAGE

In event engine is to be stored for any length of time (30 days or more), prepare as follows:

1. Drain gasoline by tipping or syphon hose, then run engine until remainder is used and tank and carburetor are empty.



Drain into container outdoors away from fire or flame.

2. Protect the inside of engine for storage by removing spark plug and pouring one ounce of SAE 30 oil through spark plug hole into cylinder. Crank engine, without starting, several times to spread oil over cylinder walls.

Model 650



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Model 650

PARTS LIST FOR MODEL 650 SHREDDER

Ref. No.	Part No.	Color Code	DESCRIPTION	New	Ref.	Part No.	Color Code	DESCRIPTION	New Part
1	1147	6 452	Door Chip It		30	710-0	237	Hex Bolt 5/16-24 x .62" Lg.*	
2	710-0)465	Hex Bolt 1/2-20 x 4.50" Lg.*		31	714-0		Cotter Pin 1/8" Dia. x 1.00"	
3	711-0)580	Clevis Pin					Lg.* (Special)	
4	711-()579	Flail Spacer 7/32" Lg.		32	736-0	192	FI-Wash531" I.D. x .937 O.D	
5	1145	5 488	Cutting Finger					x .09	
6	736-0		LWash. 1/2" Scr.*		33	11459)	Flail	
7	726-0		Palnut 3/16" Dia.		34	711-0		Flail Spacer 23/32" Lg.	
8	712-0		Hex Jam Nut 1/2-20 Thd.*		35	711-0		Clevis Pin .50" Dia. x 3.0" Lg.	
9	714-0)507	Cotter Pin 3/32" Dia. x 3/4"		36	736-0	247	FIWash406" I.D. x 1.25"	
			Lg. *					O.D. Hdn.	
10		5 452	Chute Deflector		37	736-0		LWash. 3/8" Scr. H.D.	
11	712-0		LNut 1/4-20 Thd.		38	710-0	151	Hex Bolt 3/8-24 x 2.00" Lg.	1
12	710-0		Hex Bolt 1/4-20 x .50" Lg.*					H.T.	
13	714-(Sq. Key 1/4" x 2.00" Lg.*		39		5 488	Flail Housing Ass'yComp.	
14		0 452	Impeller Assembly		40	712-0		Hex Cent. L-Nut 1/4-20 Thd.	
15	710-0		Hex Bolt 5/16-24 x 3/4" Lg.*		41		2 452	Upper Guide Extension Ass'y.	
16	736-0		L-Wash. 5/16" Scr.*		42	11478		Hinge Pin	
17		3 452	Hopper to Engine Mtg. Plate		43	726-0		Palnut 3/16" Dia.	
18			Engine		44	712-0		Wing Nut Elastic 1/4-20 Thd.	
19		4 488	Engine Mounting Plate		45		452		
20	712-0		Hex Nut 5/16-24 Thd.*		46) 488		
@]	736-0		L-Wash. 5/16" Scr.*		47		2 488		
2	738-0		Shaft (650 Only)		48	736-02		FI-Wash. 5/16" Scr.*	
00	1147		Shaft (24650 Only)		49		488	Hopper AssemIby	
23	736-0		Special LWash. 5/16" I.D.		50	710-06	601	Hex Wash. Hd. Self-Tap Scr.	
24	726-0		Push Cap		- 4	44470		5/16-18 x .50" Lg.	
25	711-0		Spacer (650 Only)		51	11479		Clamp Rod Assembly	
26	734-1		Wheel Ass'y Comp. (650 Only		52		452		
	734-0 741-0		Wheel Ass'y Comp (24650 On	iy)	53		488	Inlet Guide Assembly	
27	741-0	1	Wheel Bearing (24650 Only) FI-Wash50" I.D.*		54 55	09966		Knob Ass'y.	ĺ
27	710-0		Hex Bolt 5/16-24 x 1.50" Lg.*		55 56	710-0		Stop Washer	
20	712-0	1	Elastic Stopnut 5/16-18 Thd.		50	764-0		Hex Bolt 5/16-18 x 8.38" Lg.	
23	/ 12-0	723				/04-0	120	Bag (Not Shown)	

(497 - Yard-Man Red) (488 - Mack Truck Yellow)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Mack Truck Yellow Finish—11907 (488).)

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

The engine is not under warranty by the shredder manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."





This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service fir Check the yellow pages of your telephone directory under listing **Engines—Gasoline**, Briggs & Stratton or Tecums. Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

	·
ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	2625 4th Ave. S 35233
ARKANSAS	NORTH LITTLE ROCK
Sutton's Lawn Mower Shop	5301 Roundtop Drive
	Box 368, Rt. 4
CALIFORNIA	BIRMINGHAM
Billious	75 North D Street 93257
COLORADO	DENVER
COLORADO Spitzer Industrial Products Co.	Box 29114, 6601
	N. Washington St 80229
FLORIDA	JACKSONVILLE
Radco Distributors	Box 29114, 6601 N. Washington St 80229 JACKSONVILLE 4909 Victor St. Box 5459
	Box 5459 32207
	OPA LOCKA
Small Eng Dist	2351 N W/ 147th St 33054
GEORGIA	FAST POINT
East Point Cycle & Key	EAST POINT
ILLINOIS	
Keen Edge Co	LYONS 8615 Ogden Ave60534
INDIANA	EI KHAPT
Parte & Sales Inc	ELKHART 2101 Industrial Pkwy46514
IOWA	DURUOUE
Power Lawn & Garden Equin	DUBUQUE 52001
LOUISIANA	MONBOE
Mid-South Power	MONROE 700 Pine St
	NEW ORI FANS
Subren Engine Co	NEW ORLEANS 8330 Earhart Blvd70118
MARYLAND	
Contor Supply Co	6867 New Hampshire
MASSACHUSETTS Morton B. Collins Co.	Ave 20912
MASSACHUSETTS	SPRINGFIELD
Morton B Collins Co	300 Birnie Ave 01107
MICHIGAN	LANSING
Lorenz Service Co	LANSING 2500 S. Pennsylvania 48910
	MOUNT CLEMENS
Power Equipment Dist	340 Hubbard 48043
MINNESOTA	HOPKINS 420 Excelsior Ave. W55343
Hance Distributing Inc.	420 Excelsior Ave. W 55343
MISSISSIPPI	BILOXI
Biloxi Sales & Service, Inc	BILOXI 506 Caillavet St 39533
MICCOURT	KANSAS CITV
Automotive Equip. Service	
	ST. JOSEPH 8th and Monterey64503
Boss-Frazier Supply Co.	
	ST. LOUIS
Henzler, Inc.	2015 Lemay Ferry
	Road63125
NEW JERSEY	BELLMAWR
NEW MEXICO	ALBUQUERQUE
Spitzer Eng. & Parts	ALBUQUERQUE 1023 Third Ave. N.W87103

NEW YORK	CARTHAGE
Gamble Dist Inc	West End Ave
NORTH CAROLINA	GOLDSBORO
Smith Hardware Co.	GOLDSBORO 515 N. George St 27530
	GREENSBORO
Dixie Sales Company	335 N. Green
оню	CARROLL
Stobe's Mid-State Mower Suppl	v Box 366 71 High St. 43112
	CLEVELAND 7900 Lorain Ave44102 WADSWORTH
Bleckrie, Inc	7900 Lorain Ave 44102
	WADSWORTH
National Central	687 Seville Rd 44281
Burton Supply Co	YOUNGSTOWN
Burton Supply Co	Box 929
	BOX 929
OKLAHOMA	605 S Cherokee 74401
OREGON	MUSKOGEE 605 S. Cherokee74401 PORTLAND
Kenton Supply Co	
PENNSYI VANIA	HARRISBURG
FECO Inc.	4021 N 6th St 17110
	PHILADELPHIA
Thompson Rubber Co	PHILADELPHIA 5222-24 N. Fifth St 19120
	PITTSBURGH
Bluemont Co	11125 Frankstown Rd 15235
	PUNXSUTAWNEY R.D. 2
Frank Roberts & Sons	KNOXVILLE
TENNESSEE	2000 Western Ave 379?
Master Repair Service	MEMPHIS
American Sales & Service Inc	3035-43 Bellbrook 3811.
TEXAS	DALLAS
Marr Brothers, Inc.	DALLAS
······································	FORT WOSTL
	FURI WURLIN
Woodson Sales Corp	1702 N. Sylvania 76111
	FORT WORTH 1702 N. Sylvania76111 HOUSTON
Bullard Supply Co	2409 Commerce St 77003
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Bullard Supply Co	HOUSTON 2409 Commerce St 77003 SAN ANTONIO 8610 Botts Lane P.O. Boy 17867 78217
Bullard Supply Co	HOUSTON 2409 Commerce St 77003 SAN ANTONIO 8610 Botts Lane P.O. Boy 17867 78217
Bullard Supply Co Engine House Inc UTAH A-1 Engine & Mower Co	HOUSTON 2409 Commerce St77003 SAN ANTONIO 8610 Botts Lane P.O. Box 1786778217 SALT LAKE CITY 439 E. 900 So
Bullard Supply Co Engine House Inc UTAH A-1 Engine & Mower Co VERMONT	HOUSTON 2409 Commerce St 77003 SAN ANTONIO 8610 Botts Lane P.O. Box 17867 78217 SALT LAKE CITY 439 E. 900 So 84111 BURLINGTON
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Bullard Supply Co Engine House Inc UTAH A-1 Engine & Mower Co VERMONT Vermont Howe, Co. Inc	HOUSTON
Bullard Supply Co Engine House Inc UTAH A-1 Engine & Mower Co VERMONT Vermont Hdwe. Co. Inc VIRGINIA RBI Corp	HOUSTON
Bullard Supply Co Engine House Inc UTAH A-1 Engine & Mower Co VERMONT Vermont Hdwe. Co. Inc VIRGINIA RBI Corp	HOUSTON 2409 Commerce St 77003 SAN ANTONIO 8610 Botts Lane P.O. Box 17867 78217 SALT LAKE CITY 439 E. 900 So 84111 BURLINGTON 180 Flynn Ave 05401 ASHLAND Lake Ridge Rd. 101 Cedar Run Dr 23005 SFATTLE
Bullard Supply Co Engine House Inc UTAH A-1 Engine & Mower Co VERMONT Vermont Hdwe. Co. Inc VIRGINIA RBI Corp	HOUSTON 2409 Commerce St 77003 SAN ANTONIO 8610 Botts Lane P.O. Box 17867 78217 SALT LAKE CITY 439 E. 900 So 84111 BURLINGTON 180 Flynn Ave 05401 ASHLAND Lake Ridge Rd. 101 Cedar Run Dr 23005 SFATTLE
Bullard Supply Co Engine House Inc UTAH A-1 Engine & Mower Co VERMONT Vermont Hdwe. Co. Inc VIRGINIA RBI Corp	HOUSTON

WARRANTY PARTS AND SERVICE POLICY

(0382)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customers's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

- 1. Replacement of Missing Parts on new equipment.
- 2. Replacement of Defective Parts within the warranty period.
- 3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

- 1. Model Number of unit involved.
- 2. Date unit was purchased or first put into service.
- 3. Date of failure.
- 4. Nature of failure.