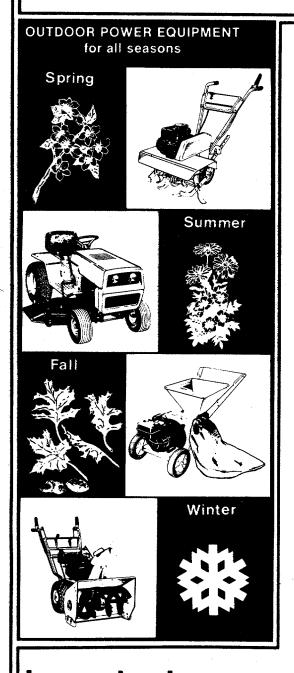
OWNER'S GUIDE



POWER SHREDDER

Model Numbers 246-650-000 24650C

Important:
Read Safety Rules and
Instructions Carefully

Thank you for purchasing an American-built product.

INDEX

Safe Operation Practices	3.	Maintenance	9
Assembly Instructions	4	Off-Season Storage	
Operation		Illustrated Parts	
Adjustments	8	Parts List	11
Lubrication	a		



Instructions given with this symbol are for personal safety. Be sure you follow them



This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



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

This 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

- 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.
- No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
- 4. This equipment should never be operated in the vicinity of children, pets or other persons.
- 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.
- 6. 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.
- 7. 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.

'REPARATION

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

PERATION

- 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.
- 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.
- 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

- 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.
- 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.

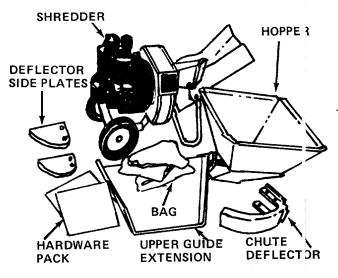


FIGURE 1

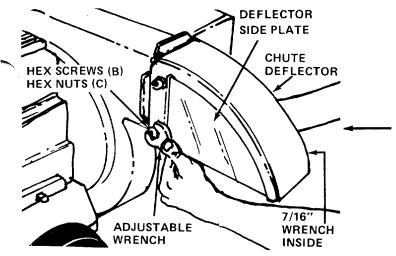
ASSEMBLY INSTRUCTIONS

TOOLS REQUIRED FOR ASSEMBLY

- 1. (1) 7/16" Open End or Box Wrench
- 2. (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.

-CONTENTS OF HARDWARE PACK

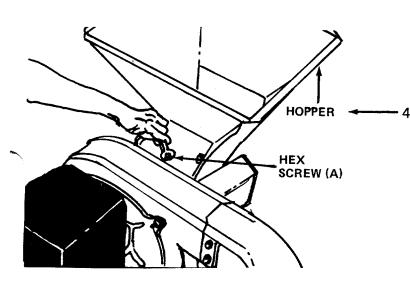
- A (3) Hex washer head self-tapping screws
- B (8) Hex screws 1/4-20 x 1/2" long
- C (8) Hex center lock nuts 1/4-20 thread



2. Insert the deflector side plates inside the chute deflector, one on each side. Place the chute and deflector side plates in position on the left hand side of shredder.

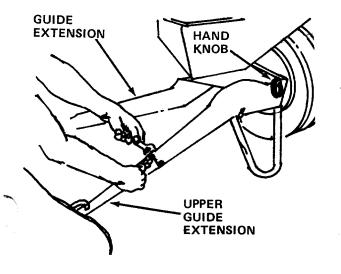
3. Secure with four hex screws (B) and hex center lock nuts (C). Heads of screws are assembled from the inside. Nuts go on the outside. Start all four screws and nuts, then tighten with an adjsutable wrench and 7/16" wrench. See figure 3.

FIGURE 3



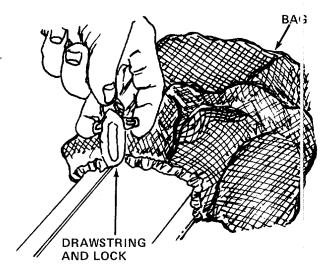
Place the hopper on the shredder. Start all three self-tapping screws (A) by hand, then tighten with a 1/2" wrench. See figure 4.

FIGURE 4



- Loosen the hand knob on the right hand side of the shredder. See figure 5.
- 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



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

FIGURE 6

OPERATION

BEFORE STARTING ENGINE

- 1. Fill fuel tank with fresh regular gasoline. [)o Not mix oil with gasoline.
- 2. Fill crankcase with oil. Refer to separate engine manual packed with your shredder.

TO START ENGINE

Tecumseh 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.



A warm engine may not require choking

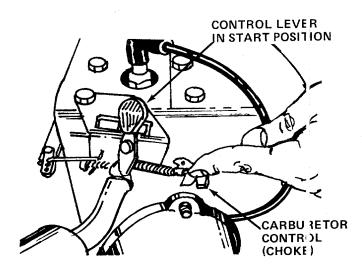


FIGURE 7 - TECUMSEH ENGINE

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

Briggs and Stratton Engine

 Place control lever (on engine) in "CHOKE" position. See figure 7A.



A warm engine may not require choking. Simply place control lever in "RUN" Position.

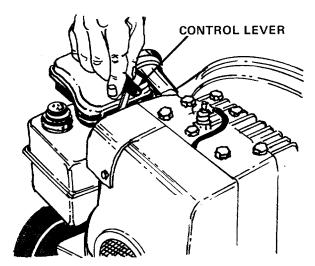


FIGURE 7A - BRIGGS AND STRATTON ENGINE

- 2. Pull rewind starter using a quick, full arm strol Keep a firm grip on the handle. Return rope slowly.
- 3. After engine starts, move control lever gradually to "RUN" position.

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.

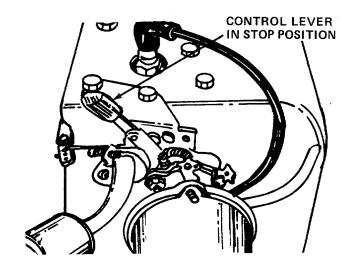


FIGURE 8 - TECUMSEH ENGINE

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



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.

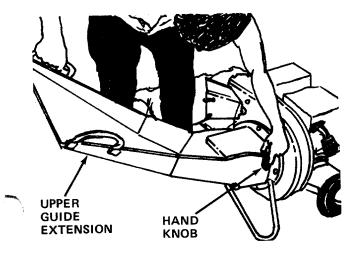


FIGURE 9. UPPER GUIDE EXTENSION ADJUST-MENT.

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.

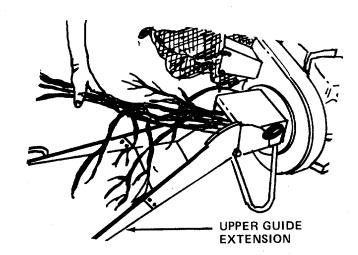


FIGURE 10. FEEDING MATERIAL INTO UPPER GUIDE EXTENSION

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

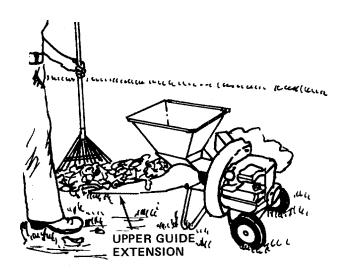


FIGURE 11. RAKING LEAVES AND TWIGS INTO UPPER GUIDE EXTENSION

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.

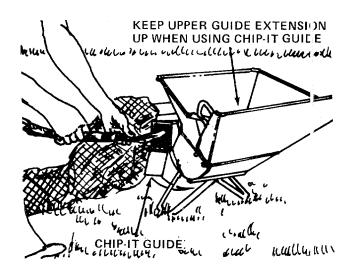


FIGURE 12. FEEDING MATERIAL INTO CHIP-IT GUIDE

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

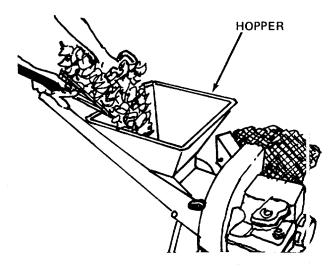


FIGURE 13. FEEDING MATERIAL INTO HOPPER

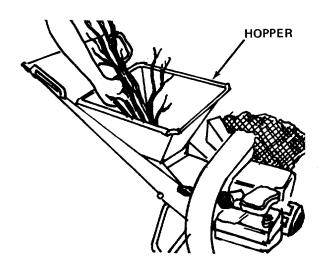


FIGURE 14. FEEDING MATERIAL INTO HOI PER



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 settings are correct for most applications. If adjustments are needed, refer to the engine manual packed with your shredder.

LUBRICATION

WHEELS - The wheels require no lubrication.

ENGINE - Follow engine manual for lubrication astructions.

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 bottom 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.

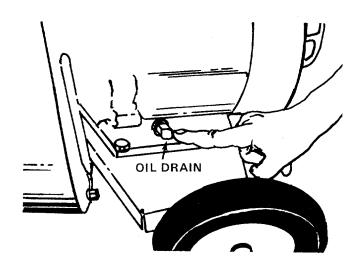


FIGURE 15

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 syphone hose, then run engine until remainder is used and tank and carburetor are empty.



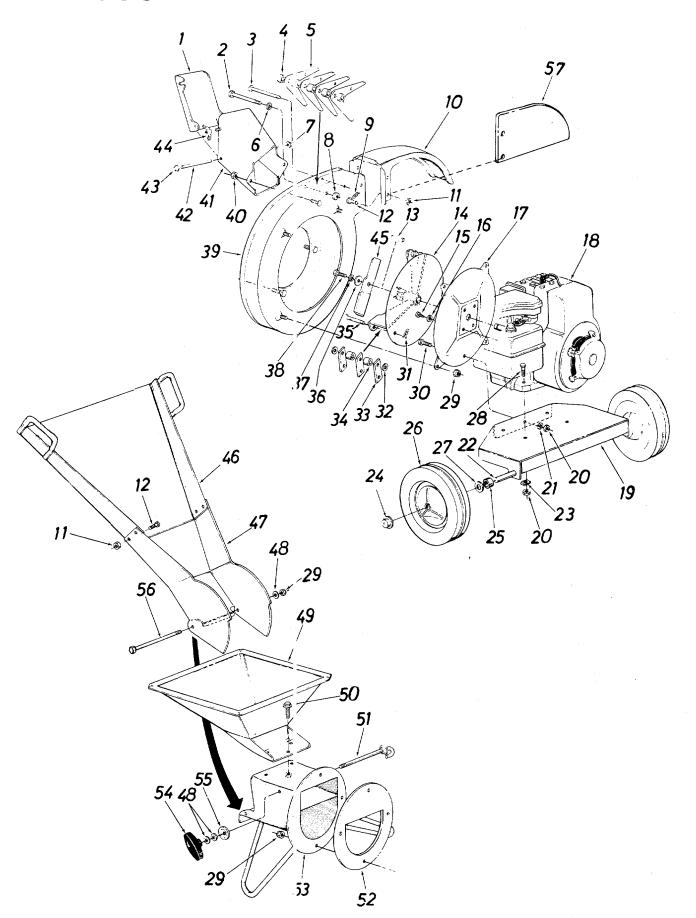
Drain gasoline into container outdoors, away from fire or flame.

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.



When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rust proof the equipment. Using a light oil or silicone, coat the equipment, especially all moving parts.

Model 650



Model 650

PARTS LIST FOR MODEL 650 SHREDDER

REF. NO.	PART COLOR NO. CODE	DESCRIPTION		REF.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
		DESCRIPTION Door Chip It Hex Bolt 1/2-20 x 4.50" Lg.* Clevis Pin Flail Spacer 7/32" Lg. Cutting Finger LWash. 1/2" Scr.* Palnut 3/16" Dia. Hex Jam Nut 1/2-20 Thd.* Cotter Pin 3/32" Dia. x 3/4" Lg.* Chute Deflector LNut 1/4-20 Thd. Hex Bolt 1/4-20 x .50" Lg.* Sq. Key 1/4" x 2.00" Lg.* Impeller Assembly Hex Bolt 5/16-24 x 3/4" Lg.* L-Wash. 5/16" Scr.* Hopper to Engine Mtg. Plate Engine Engine Mounting Plate Hex Nut 5/16-24 Thd:* LWash. 5/16" Scr.* Shaft Special LWash. 5/16" I.D. Push Cap Spacer Wheel Ass'yComp. FIWash50" I.D.* Hex Bolt 5/16-24 x 1.50" Lg.* Elastic Stopnut 5/16-18 Thd.	NEW PART	REF. NO. 31 32 334 35 36 37 38 39 401 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	736-0 736-0 736-0 736-0 736-0 736-0 710-0 1457 712-0 1147 726-0 712-0 1343 1146 1147; 736-0	0144 0192 9 0564 0578 0247 0151 5488 0107 7 8 0111 0109 1 0488 02488 0264 1488 0601	Cotter Pin 1/8" Dia. x 1.00" Lg.* (Special) FI-Wash531" I.D. x 937 O.D. x .09 Flail Flail Spacer 23/32" Lg. Clevis Pin .50" Dia. x 3.0" Lg. Clevis Pin .50" Dia. x 3.0" Lg. O.D. Hdn. LWash406" I.D. x 1.25" O.D. Hdn. LWash. 3/8" Scr. H.D. Hex Bolt 3/8-24 x 2.00" Lg. H.T. Flail Housing Ass'yComp. Hex Cent. L-Nut 1/4-20 Thd. Upper Guide Extension Ass'y. Hinge Pin Palnut 3/16" Dia. Wing Nut Elastic 1/4-20 Thd. Blade Guide Extension Assembly Guide Extension FIWash. 5/16" Scr.* Hopper Assembly Hex Wash. Hd. Self-Tap Scr. 5/16-18 x .50" Lg. Clamp Rod Assembly Back-Up Plate Inlet Guide Assembly Knob Ass'y. Stop Washer Hex Bolt 5/16-18 x 8.38" Lg.	PART
30	710-0237	Hex Bolt 5/16-24 x .62" Lg.*		57	15798 764-0		Deflector Side Plate Bag (Not Shown)	

(615 - 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.

TROUBLE SHOOTING CHART

PROBLEM	CAUSE	REMEDY
1. Material not Shredding.	Blade and or Flails not Sharp.	Sharpen or Reverse Blade and Flails.
2. Excessive Vibration	A. Bent Cran (shaft.	A. Replace Crankshaft (should be done by an Authorized Service Dealer).
	B. Out of Balance Conditon in Plate As embly.	B. Replace Impeller Assembly.
3. Engine Bogs Down or Stalls.	A. No Gas in Fuel Tank.	A. Fill Tank if Empty.
	B. Feeding Material into the Machine too Quickly.	B. Do Not Force Material through Openings, Gradually Feed Material into Openings.
4. Engine Fails to Start.	A. Check Fuel Tank for Gas.	A. Fill Tank if Empty.
	B. Spark Pluc Lead Wire Disconnected.	B. Connect Lead Wire.
	C. Faulty Spark Plug.	C. Spark Should Jump Gap Between Control Electrode and Side Electrode. If Spark does not jump, Replace the Spark Plug.
5. Hard Starting or Loss of Power.	A. Spark Plug Wire Loose.	A. Connect and Tighten Spark Plug Wire.
	B. Dirty Air Cleaner.	B. Clean Air Cleaner as Described in Engine Manual.
6. Engine Overheats.	A. Carbureto Not Adjusted Properly	A. Adjust Carburetor. See Engine Manual.
	B. Air Flow Hestricted.	B. Remove Blower Housing and Clean as Described in the Engine Manual.
	C. Engine Oil Level Low.	C. Fill Crankcase with the Proper Oil.

NOTE: For repairs beyond the minor adjustments listed above, please contact your local service dealer.

MTD PRODUCTS INC Yard-man COMPANY

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com