# OWNER'S MANUAL

ASSEMBLY
OPERATION
OPERATION

MAINTENANCE

PARTS LIST 35HP, 4 cycle, Bes Venica RII 117-142A

Quick External Matust 34 to 35"

Model Nos.

Model Nos.

117-142A

117-142-300

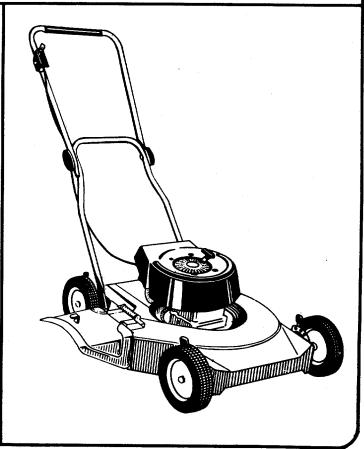
117-152-300

117-162-300

## Important:

**Read Safety Rules and Instructions Carefully** 

18", 20" & 22" ROTARY **MOWERS** 





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.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

Your rotary mower is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.

## SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

#### **TRAINING**

- Read the Operating and Service Owner's Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
- 3. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction.

#### **PREPARATION**

- Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction.
- Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- 3. Do not wear loose fitting clothing that could get caught on the mower.
- 4. Check the fuel before starting the engine. Do not fill the gasoline tank indoors, when the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine.
- 5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
- Never attempt to make a wheel or cutting height adjustment while the engine is running.
- 7. Mow only in daylight or in good artificial light.
- 8. Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk, never run.

#### **OPERATION**

- Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- 3. Stop the blade(s) when crossing gravel drive, walks or roads.
- 4. After striking a foreign object, stop the engine, remove the wire from the spark plug,

- thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the engine whenever you leave the mower, before cleaning the mower housing, and when making any repairs or inspections.
- 7. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
- 8. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
- 9. Do not run the engine indoors.
- Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
- Mow across the face of slopes, never up-anddown. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
- 12. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
- Never operate mower without proper guards, plates or other safety protective devices in place.
- Keep washout ports and other mowerhousing service openings closed when mowing.

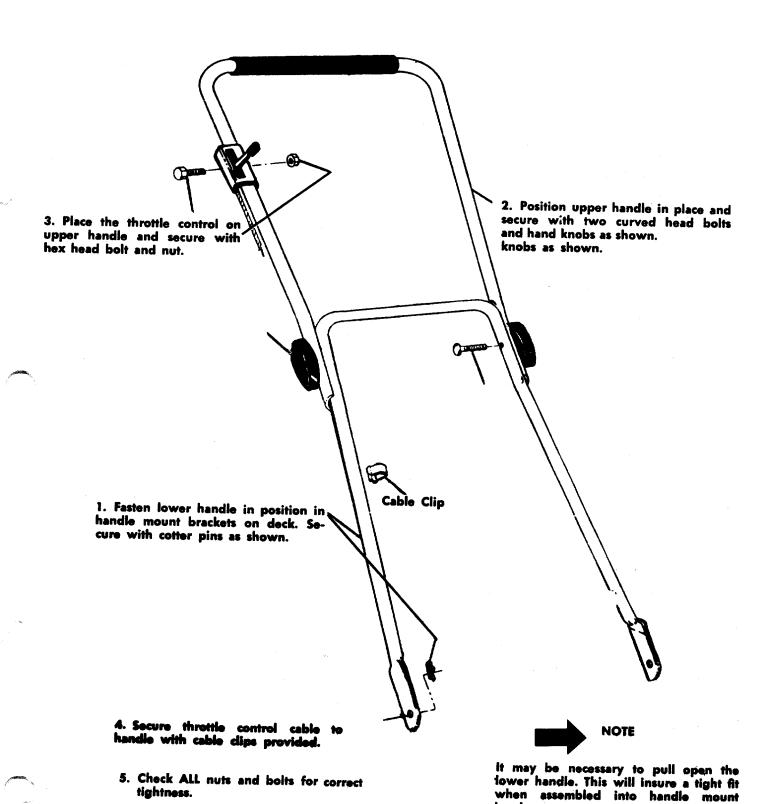
#### **MAINTENANCE AND STORAGE**

- 1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- 4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
- 5. Check the grass catcher bag frequently for wear or deterioration. For safety protection replace only with new bag meeting original equipment specifications.

## HANDLE ASSEMBLY



NOTE: Follow instructions starting with Number 1 and continue through Number 5.

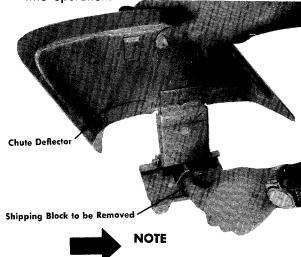


3

brackets.



Please note that the chute deflector on your mower is in an upright position. It is held in that position by a shipping block. This block is used for shipping purposes only. It must be removed and discarded before your mower is put into operation.



For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See adjustments.

- Service engine with gas and oil. See engine manual packed with lawn mower for complete instructions for the care and maintenance of engine. READ DI-RECTIONS CAREFULLY.
- 2. When ready to start engine, place throttle control lever on handle in "START" position and start engine in accordance with instructions in engine manual. After engine starts, move throttle control lever on handle to desired engine speed. The engine is stopped by placing control lever on handle in the "STOP" position.
- 3. Be sure that lawn is clear of stones, sticks, wire or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

## **ADJUSTMENTS**



CAUTION

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

#### **CUTTING HEIGHT**

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has five holes. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress thumb lever towards wheel and move wheel and lever assembly to desired position. All wheels must be positioned in relative height of cut positions.

## **LUBRICATION**



#### **IMPORTANT**

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Wheels—Wheel bearings are of self-lubricating Fortiflex. They require no lubrication. If your unit is provided with optional ball bearing wheels, lubricate at least once a season with light oil.

**Protective Shield** — The pivot points on the protective shield should be lubricated periodically with light oil to prevent any rust or binding.

Chute Deflector — The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

Engine — Follow engine manual for lubrication instructions.



Change oil after first 5 hours of operation while engine is warm. Thereafter, change oil every 25 hours of operation while engine is warm. Engine may be drained through oil filler opening. Be sure to replace drain plug and oil filler cap.

### **MAINTENANCE**

#### **CUTTING BLADE**

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

- Remove bolt and lock washer holding blade and blade adapter to engine crankshaft.
- 2. Remove blade and blade adapter from engine crankshaft.

3. Remove two bolts, lock washers and nuts holding blade to blade adapter (if necessary).

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 mower.



#### NOTE

To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.

Deck — The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.



#### CAUTION

Do not direct the stream of water at a hot engine as damage to the engine may result.

## **STORAGE**

The following steps should be taken to prepare lawn mower for storage.

- 1. Clean and lubricate mower thoroughly as described in the preceding instructions.
- 2. Refer to Engine Manual for correct engine storage instructions.
- Coat mower's cutting blade with chassis grease to prevent rusting.
- 4. Place blocks under deck to raise tires clear of floor.
- 5. Store mower in a dry, clean area.

# USING YOUR ROTARY MOWER

For the best results do not cut wet grass because it tends to stick to the underside of the mower, thus preventing proper discharge of grass clippings. If wet grass must be cut, reduce walking speed to help distribute the clippings more effectively.

New grass should be treated as wet grass, otherwise a normal walking speed is about the right pace for efficient mowing.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion then recut at right angles to first direction.

Lawn should be cut in the fall as long as there is growth.

#### **HANDLE STORAGE**

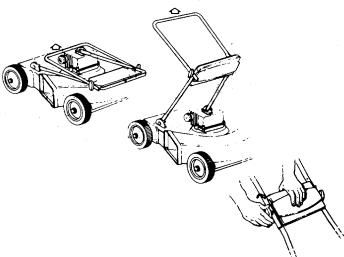
This model is so equipped to provide easy fold away handle storage.

- Loosen the two plastic knobs on each side, center of handle.
- 2. Pull inward on the bottom of each side of the lower handle and push forward.
- Fold the upper handle back and down as shown at right.

#### To Take the Handle out of Storage Position.

 Lift the upper handle up and towards the rear as shown.

- Pull the handle back until it Locks into the operator's position.
- 3. Tighten the two plastic knobs securely.





The manufacturer DOES NOT recommend the use of any accessory on this Rotary Mower other than those manufactured by MTD Products Inc.

GRASS CATCHER Model No. 197-003A is available as optional equipment for the mowers shown in this manual.



## WARNING

- 1. The mower should not be operated without the entire grass catcher or chute deflector in place.
- 2. The mower should not be operated without the protective shield on the rear of the deck in place.



#### NOTE:

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

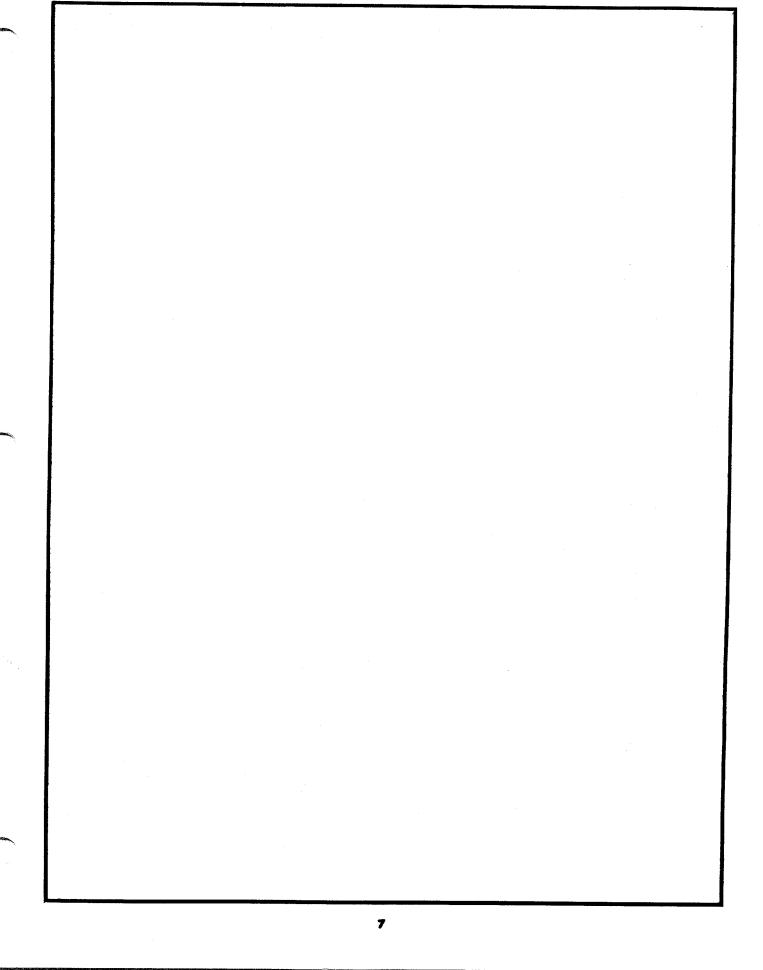
For replacement bags, use only factory authorized replacement bag No. 764-0119.

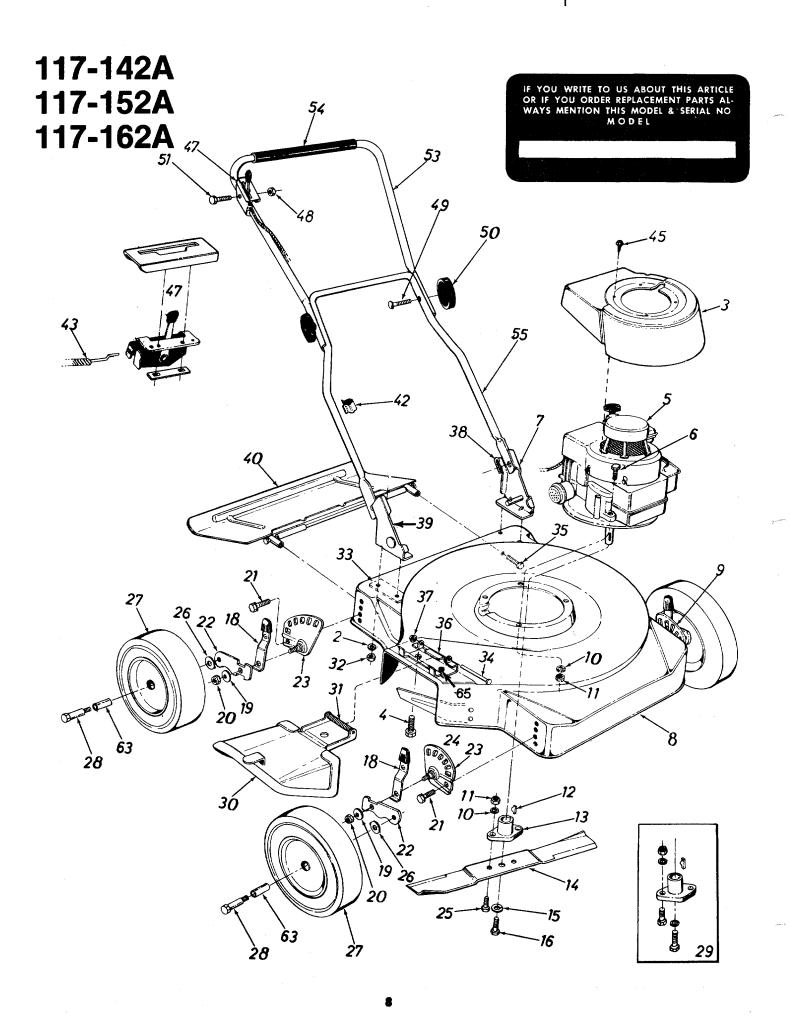


#### **IMPORTANT**

After striking a foreign object, stop the engine, remove wire from spark plug. Thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

**NOTES** 





#### PARTS LIST FOR MOWER MODELS 117-142A, 117-152A AND 117-162A

	<b>5</b> -1	PARTS LIST FOR MOWER MODELS 117-142A, 117-152A AND 117-162A							
	Ref. No.	. 117-142A	COLOF	Part No. Co	olor ode	Part No. 117-162A	Color Code	Description	New Part
	3	736-0329		736-0329	1	736-032	29	L-Wash. ¼" Scr.*	
	4	731-0275		731-0275		731-02		Shroud	
	5	710-0289		710-0289		710-028	39	Hex Scr. 1/4-20 x .50"	
	6	710-0158		710-0158	İ			Engine	
	7	12927		12927	l	710-015	58	Hex Scr. 5/16-24 x 1.25" Lg.*	
	8	12839	462		462	12927	400	Handle Mtg. Brkt. Ass'y.—L.H.	
	9		-402	10950	102	12421 10950	<b>—462</b>	Deck Assembly—Complete	
	10	736-0119		736-0119		736-011	0	Height Adj. Ass'y.—Complete L.H.	
	11	712-0123		712-0123		712-012	3	Spring L-Wash. 5/16 Scr.* Hex Nut 5/16-24 Thd.*	
	12			714-0365		714-036		#6 Hi-Pro-Key 5/32 x 5/8" Dia.	
	13			10769		10769	•	Blade Adapter Kit	
	14	742-0121		742-0123		742-012	5	Blade	
	15			736-0217		736-021	7	Spring L-Wash. 3/8" Scr. — H.D.	
	18	710-0459		710-0459		710-045	9	Hex Hd. Cap Scr. 3/8-24 x 1:50" La — H T	
	19	10949 736-0219		10949	ŀ	10949		Spring Lever Ass'y, with Knob	
	20	712-0116		736-0219		736-021	9	Belleville Washer	
i	21	710-0209		712-0116 710-0209		712-011		Elastic L-Nut 3/8-24 Thd.	
1	22	10937		10937		710-020	9	Sems Hex Scr. 3/8-16 x .62" Lg.	
İ	23	10935		10935		10937		Pivot Bar	
		10934		10934		10935 10934		Index Plate Ass'y.—L.H.	
1	24	10951		10951	- 1	10954		Index Plate Ass'y.—R.H.	
	25	710-0117		710-0117		710-011	7	Height Adj. Ass'y.—Complete R.H.	[
ļ	26	736-0105		736-0105	1	736-010	, 5	Hex Scr. 5/16-24 x 1.00" Lg.—H.T. Belleville Washer	
1	27	09392-502		09392-502		09392-5	Ď1	Wheel Ass'y.—Complete	
İ	28	738-0102		738-0102	1	738-010		Axle Bolt	
	29 30	10769	460	10769		10769		Blade Adapter Kit	
1	31		-462	11679 —46	62	11679 -		Chute Deflector Ass'y.	
1	32	732-0253 712-0287	:	732-0253		732-0253		Torsion Spring	
ŀ	33	08405		712-0287 08405		712-0287	7	Hex Nut 1/4-20 Thd.*	ľ
	34	711-0555		711-0555	- 1	08405	_	Reinforcement Plate	
	35	710-0567	1	710-0567		711-0555		Pivot Pin	
	36		-462	11130 —46	62	710-0567 11130 -		Hex Scr. 1/4-28 x .62" Lg.	
ĺ	37	726-0106		726-0106		726-0106	-402	Adapter Plate	1
		714-0104	l	714-0104	1	714-0104		Push-on Flange Palnut Hair Pin Cotter	
		12928	· [	12928	İ	12928		Handle Mtg. Brkt. Ass'y.—R.H.	
	40	11195 -	-462	12251 —46	62		<b>-462</b>	Rear Protective Shield Ass'y.—Comp.	
	42	746-0128		746-0128	İ	746-0128		Cable Clip	
	45	746-0174		746-0174		746-0174		Conduit and Wire	
ļ		710-0227		710-0227		710-0227	'	Hex Wash. Hd. AB-Tapp. Scr. #8 x .38" Lg.	
		746-0234		746-0234		746-0234		Throttle Control Comp.	
ŀ		712-0107		712-0107	Ī	712-0107		Hex Cent. L-Nut 1/4-20 Thd.	ŀ
	- 1	710-0405 09966		710-0405	1	710-0405		Curved Hd. Bolt 5/16-18 x 1.75" Lg.	
	. 1	710-0606		09966 710,0006		09966		Hand Knob	-
		11204		710-0606 11204		710-0606		Hex Scr. 1/4-20 x 1.50" Lg.*	- 1
		718-0143		718-0143	1	11204 718-0143		Upper Handle	
		749-0104	.	749-0104		749-0104		Grip Lower Handle	
		07006		07006		07006	ł	Fortiflex Bearing	1
- 1		712-0107		712-0107		712-0107		Hex Cent. L-Nut 1/4-20 Thd.	1.
-									

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

(462-Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Red Flake Finish—12609 (482) )

NOTE: The engine is not under warranty by the mower 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."

### 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, parts numbers, description of parts and the quantity of each part required.

	•
ALABAMA	BIRMINGHAM
Auto Flactric & Car	rburetor Co2625 4th Ave. S 35233
ADVANCAC	NORTH LITTLE ROCK
Susseria Lawa May	ver Shop Rt. 4, Box 368 72117
SUTTON & LOWI MOV	FORT SMITH
	nc: 2515 Towson Ave 72901
Mity Mite Motors,	nc;
CALIFORNIA	SAN BERNARDINO
Lawn Mower Suppl	y Co 25608 E. Baseline 92410
	SAN FRANCISCO
J.W. Jewett Co	981 Folsom St 94107
	SACDAMENIU
Luttia & Severson	2030 28th St 95818
COLOBADO	DENVER
South Denver Law	n Equip 527 West Evans 80223
CONNECTICUT	CHEFIFID
CONNECTICO	sey Co 850 Thompsonville Rd. 06078
	JACKSONVILLE
FLORIDA	2402 Market St 32206
Radco Distributor	
	CORAL GABLES
Moz-All of Florida	, Inc 365 Greco Ave 33146
CEADOLA	FAST POIN!
East Point Cycle	& Key 2834 Church St 30344
II I INAIC	LYONS
Keen Edge Co	
INIBLANIA	FI KHART
Parts & Salas Inc	
	DUBUQUE
IOWA	1. 50 in 2551 LE Kennedy 52001
Power Lawn & Go	rden Equip 2551 J.F. Kennedy 52001
KANSAS	WICHITA 67204
Hixon, Inc	3030 Mascot 67204
Suhren Engine Co	8330 Earhart Blvd 70118
AA A DVI AND	TAROMA PARK
Cambor Supply Co	6867 New Hampshire Ave. 20012
Morton B. Collins	Co 300 Dillille Arter
Power Fourinment	Dist 36463 South Gratiot 48043
Lorent Service C	o
いいい コピクのマ A	MINNETONKA
MINNESOTA	ng Inc 11212 Wayzata Blvd55343
Hance Distribution	nu AVI
MISSISSIPPI	BILOXI 504 Caillayet St. 39533
Biloxi Sales & Se	rvice, Inc 506 Caillavet St 39533
MISSOURI	KANSAS CITT
Automotive Equi	p. Service 3117 Holmes St 64109
	31. LUUI3
Henzler, Inc	ST. LOUIS 2015 Lemay Ferry Rd. 63125
	CARTHAGE
NEW YORK	CARTHAGE West End Ave 13619
10. 1 1 1	31 RACO3L 115 N. Geddes St 13204
Kimber's, Inc	

## BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

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

NORTH CAROLINA GREENSBORO
Dixie Sales Company
GOLDSBORO
Smith Hardware Co 515 N. George St 27530
ALIA WADSWORTH
National Central
CLEVELAND
Bleckrie, Inc
CARROL Stebe's Mid-State Mower Supply Box 366
WILLARD
Sunshine Wholesale Tire Outlet Route 224
MANSFIELD
McClure Lawn & Garden Supply1114 Lexington Ave 44903
OKI AHOMA MUSKOGEE
Victory Motors, Inc
ADA Ada Auto Supply
OREGON PORTLAND
Kenton Supply Co8216 N. Denver Ave 97217
DENNICYLVANIA LANCASTER
Raub Supply Co James & Mulberry Sts 17604
PITTSRIIRGH
Bluemont Co. 11125 Frankstown Rd 15235
TENNESSEE KNOXVILLE Master Repair Service 2423 Broadway, N.E37917
MEMBUIS
Mamakia Custa & Supply Co. 421 Monroe Ave 38103
American Sales & Service, Inc. 1922 Lynnbrook 36110
TEXAS DALLAS
Marr Brothers, Inc
HOUSTON Bullard Supply Co 2409 Commerce St 77003
SAN ANTONIO
Catto & Putty, Inc P.O. Box 240878206
FORT WORTH
Woodson Sales Corp
UTAH SALT LAKE CITY
A-1 Engine & Mower Co 437 E. 9th St84111 VERMONT BURLINGTON
AA Lakeside Ave05401
VIRGINIA RICHMOND
RBI Corp 963 Myers St 23260
WACHINGTON SEATTLE
Bailey's Rebuild, Inc
WEST VIRGINIA CHARLESTON Young's, Inc
Automotive Supply Co 123 S. Linwood Ave54911

#### WARRANTY PARTS AND SERVICE POLICY

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 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.