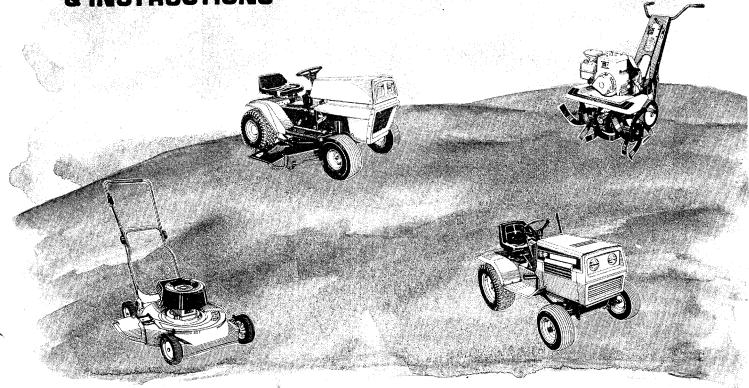
FIFTY CENTS

MODEL NO. 219-100A

ASSEMBLY OPERATION PARTS MAINTENANCE

VERTICAL ROTARY TILLER

IMPORTANT:
READ SAFETY RULES
& INSTRUCTIONS



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 under this warranty must be paid by the purchaser unless 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.

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

Your tiller is a precision piece of power equipment, not a play thing. Therefore exercise extreme caution at all times

SAFE OPERATION PRACTICES FOR TILLERS

- 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 tiller. Only persons well acquainted with these rules of safe operation should be allowed to use your tiller.
- 3. Keep the area of operation clear of all persons, particularly small children and pets.
- Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- 5. Do not wear loose fitting clothing that could get caught on the tiller.
- 6. Do not start the engine unless the shift lever is in the neutral (N) position.
- Do not stand in front of the tiller while starting the engine.
- 8. Do not place feet and hands on or near the tines when starting the engine or while the engine is running.
- 9. Do not leave the tiller unattended with the engine running.
- 10. Do not walk in front of the tiller while the engine is running.

- 11. Do not fill gasoline tank while engine is running. Spilling gasoline on hot engine may cause a fire or explosion.
- 12. Do not run the engine while indoors. Exhaust gases are deadly poisonous.
- 13. Be careful not to touch the muffler after the engine has been running, it is hot.
- 14. Before any maintenance work is performed or adjustments are made, remove the spark plug wire and ground it on the engine block for added safety.
- 15. Use caution when tilling near buildings and fences, rotating tines can cause damage or injury.
- 16. Before attempting to remove rocks, bricks and other objects from tines, stop the engine and be sure the tines have stopped completely. Disconnect the spark plug wire and ground to prevent accidental starting.
- 17. Check the tine and engine mounting bolts at frequent intervals for proper tightness.
- 18. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- 19. 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.

ASSEMBLY

Your rotary tiller is shipped complete in a single carton. The tines, wheels, handle and depth bar are to be assembled. This is done in the manner described below.

Tines—Mount tines on tine shaft as shown. (See page 10.) Tines must be mounted with the cutting edges facing the correct direction. The tiller will not operate properly unless the sharpened surface of the tines enter the soil first. Secure tines in position on tine shaft with clevis pins (41), and internal cotter pins (32).

Handle—Assemble the handle brackets (8) to the handle (2) with hex head screw (11), lockwashers (9) and hex nuts (10). DO NOT tighten. Place the handle brackets (8) in the tailpiece slots. Line up lower holes in handle brackets with mounting holes in tailpiece assembly. Secure with carriage bolt 5/16-18 x 3/4" Lg. (20), lockwasher (13) and hex nut (12). Line up upper holes in handle brackets with mounting holes in mounting plate assemblies (19) and secure with carriage bolt (20), lockwasher (13) and hex nut (12). See page 8 for correct sequence. Tighten all nuts and bolts securely.

CLUTCH CONTROL LEVER ASSEMBLY

Clutch Lever—Assemble in this order: rubber washer (42), steel washer (41), clutch lever assembly (43), (rod bracket to the front), steel washer (41) and lock nut (40). Tighten until rubber washer compresses slightly. (See page 8.)

Clutch Control Assembly—Screw the ferrule (37) on the threaded end of the control rod (38) until about 1" of the threads show above the ferrule. Insert the ferrule through the control pivot lever (36), fasten with flat washer (35) and cotter hairpin (34). Put the clutch handle in the neutral position. Insert the control rod in the bracket on the clutch lever and secure with a cotter hairpin (34) through the center of the bracket. Adjust the ferrule so the belt is slack when the clutch lever is in the neutral position. (See page 8.)

Depth Bar—Attach depth bar (18) in desired position with clevis pin (17) and locking pin (15). (See page 8.)

Grips—Slip hand grips on the upper end of each handle. They will slip on more easily if you first soak them in warm soapy water.

CHECK LIST BEFORE OPERATION

- A. After the tiller is assembled and before gasoline and oil are added to the engine, check the case for correct lubricant level.
 - 1. Remove rear pipe plug from tiller gear case. See figure 1.

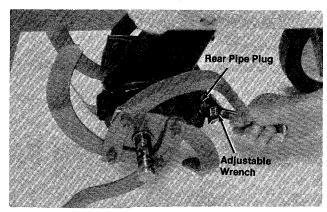


FIGURE 1.

2. If lubricant flows from the outlet, lubricant is at the correct level. See figure 2.

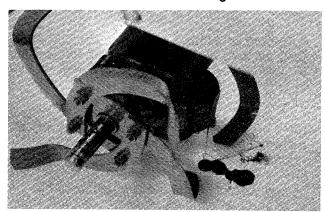


FIGURE 2.

3. If lubricant fails to flow from the outlet, lubricant should be added. USE PENNANT OIL EP #35000. This is available in 8 ounce squeeze tubes. Order part number 737-0136. See figure 3.

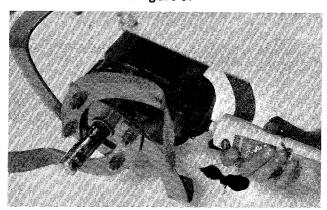


FIGURE 3.

- B. Remove spark plug wire from spark plug and ground. Check tiller tines for proper installation. With throttle control lever set on STOP position and the clutch control handle set in FORWARD position, slowly crank engine to determine direction of tine rotation. Be sure all tines are mounted so the sharpened edges enter the soil first.
- C. Now place the clutch control handle in NEUTRAL position. Slowly crank engine. The tines should not rotate.
- D. Check all nuts and bolts for proper tightness. This is especially important during the initial operation period. Make this same check periodically thereafter.
- E. Fill fuel tank with clean, fresh, regular grade gasoline. This should be used at all times.
- F. Check engine crankcase for proper oil level. The engine is shipped without oil in the crankcase. Be sure to fill crankcase before starting engine. Be sure crankcase is FULL. See engine manual for correct type and amount.



The engine is warranted separately by the engine manufacturer. For warranty service contact the engine manufacturer or their local authorized service station. All important information pertaining to care and

manual.

STARTING YOUR TILLER

operation is included in the engine

- 1. Be sure clutch control handle is in NEUTRAL position.
- 2. Move throttle lever to START position on engine.
- 3. After cranking the engine several times or as the engine fires, move the throttle lever to RUN position.
- 4. Adjust throttle lever for desired operating speed.
- 5. To stop engine, move throttle lever to STOP position. Keep throttle lever in STOP position at all times when tiller is not in use.



A brief break-in period is essential to insure maximum engine life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. This is necessary on the initial run only. It is also recommended that the oil be changed after five (5) hours of operation. This allows for the removal of impurities which may have accumulated during the break-in period. Subsequent oil changes should be made as stated in the engine manual. Always check oil before using your tiller. Be sure oil level is adequate.

OPERATING INSTRUCTIONS

For your own convenience and safety, observe all safety suggestions shown in this manual. Your tiller is not a toy, it is a precision piece of power equipment. Treat it as such.

It is important to recognize the fact that the forward and penetrating action of the rotary tiller is obtained from the rotating action of the tines in the soil. The depth bar acts as a brake for the tiller and controls the depth and speed at which the machine will operate. By lowering the setting of the depth bar, the forward speed of the machine is reduced and the working depth of the tines is increased. Raising the setting of the depth bar increases the forward speed and reduces the working depth. When soil conditions are severe and several passes must be made over a certain area, the depth bar setting should be lowered each time a pass is made. Further control of tilling depth and travel speed can be obtained by variation of pressure on the handles or the throttle setting. A downward pressure on the handles will increase the working depth and reduce the forward speed. An upward pressure on the handles will reduce the working depth and increase the forward speed. The type of soil and working conditions will determine the actual setting of the depth bar and the handle pressure required.

1. Tine engagement and forward travel is achieved by moving the clutch lever to FORWARD position. Tine rotation and forward motion are stopped by moving the clutch lever to NEUTRAL position.

- 2. The throttle lever adjusts the engine speed. It also gives fingertip control of the carburetor and magneto stop switch. When the throttle lever is pushed completely to the right from behind the tiller, the carburetor is in START position. Pulling the lever to the left reduces the engine speed to SLOW. When the lever is pulled completely to the left from behind the tiller, the magneto stop switch grounds out the spark and stops the engine.
- 3. When the depth bar is positioned out of ground engagement, self-propelled transporting of the tiller is easily achieved. With no pressure on the handles and the throttle lever set for SLOW engine speed, move the clutch control handle to the FORWARD position and let the tiller gently propel itself.

ADJUSTMENTS

Belts—Belt slack is taken up by a spring loaded idler pulley. Because of this, belt adjustment is not required.

Clutch—No adjustment of the lower clutch rod is required. This is done automatically by the spring loaded idler.



Belt and clutch adjustments can be made by moving the engine bed. Loosen the four bolts which secure it and move the engine bed forward or backward as required. Adjusting the control rod will also effect the belt and clutch adjustment. These adjustments may be necessary if handle position is changed.

Handle—The position of the handle may be adjusted by removing and moving carriage bolts to the desired mounting holes. Adjustment should be made for the most convenient operating height.

Wheels—Wheel positions may be varied to give further adjustment of handle height. Various wheel positions also give variations of the leverage and weight distribution over the tines. Wheels should be set to suit the local soil conditions and the operator's convenience.

Tines—The standard width of cut is 26". Because of the various types of work to which the tiller may be put, variation in the tilling widths may be necessary. This can be accomplished in a number of ways.

- 1. Standard tine arrangement.......... 26"
- 2. Remove tines that point outward from outer tine assemblies. Tines may be interchanged with opposite sides.......................20"



When adjusting tines, be sure the cutting edges enter the soil first.

MAINTENANCE AND LUBRICATION

Engine—Service engine in accordance with the engine manufacturer's owner's guide.



To drain oil, remove oil filler plug and tip tiller on its side. Drain oil while the engine is warm. See engine manual for filling instructions.

Gear Case—Whenever disassembly of gear case is required, gear case should be thoroughly cleaned and lubricated with 4½ ounces of PENNANT OIL EP #35000. This is available in 8 ounce squeeze tubes. Order part number 747-0136. See figure 4.

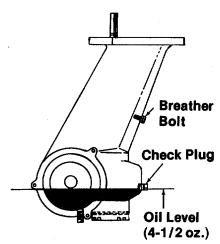


FIGURE 4.

Belt—Access to V belt and pulley assemblies is accomplished by removing the engine and engine bed as described below.

1. Remove four cap screws which secure engine bed to mounting plate assembly. Remove engine bed with engine attached.

- 2. Remove hex screw, lockwasher and flatwasher in 4½" pulley. Remove pulley and "V" belt. The belt clip on idler must be loosened to remove belt, mark correct location of belt clip in relation to idler before loosening. This can be done by scribing the belt clip and the end of the weld bolt in idler with a file. It is most important that this clip be reassembled in the right position.
- 3. Position new belt on 4½" pulley and reinstall on gear case shaft. Pulley must be mounted in position so that it will line up with engine pulley when assembly is completed. The correct position is that point at which the center of the pulley is 1-1/8" above the mounting plate assembly. Tighten hex screw, lockwasher and flat washer securely.
- 4. Line up the belt clip in original position and tighten securely. Make sure belt is inside belt guards. While holding the belt taut (grasp at extreme rear position), move clutch belt lever to FORWARD and NEUTRAL position. If belt clip touches belt with lever in either position, readjust position of clip.
- 5. Move clutch lever to NEUTRAL position. Remove inspection plate from engine bed.
- 6. Replace engine bed on mounting plate assembly. Move engine bed and engine as far forward as possible.
- 7. Remove inspection plate (See page 10.) from engine bed and reach through inspection hole and guide belt into position on engine pulley.
- Check visually through inspection hole to make sure belt is inside all belt guards and that pulleys are in proper alignment. A flashlight will help you make this check quickly and easily.
- Line up mounting holes of engine bed and mounting plate then replace cap screws. Do not tighten cap screws until all four screws are in place. Replace inspection plate.

REPLACING TILLER GEAR CASE OIL SEALS

- 1. Drain lubricant.
- 2. Remove tine assemblies.
- 3. Remove bearing cap. (See reference 17 on page 12.)
- 4. Remove bearings, worm wheel and tine shaft. Do not remove bearing races.
- 5. Remove oil seals from gear case and bearing cap.
- 6. Remove all burrs from holes in tine shaft.

- 7. Dip oil seals in lubricant and then insert one in gear case and one in bearing cap.
- 8. Wipe tine shaft clean of filings and lubricate before assembling with bearings and worm wheel in gear case.
- 9. Replace bearing cap.



Do not damage oil seals. The open flanges face to the outside of the gear case.

- 10. Tighten bearing cap, retighten screws evenly.
- 11. Replace tine assemblies and add lubricant. (See page 5.)

General—Check periodically all nuts and bolts. Loose nuts and bolts can cause permanent damage to your unit. Keep all nuts and bolts securely tightened.

STORAGE

The following steps should be taken to prepare your tiller for storage.

- 1. Clean tiller thoroughly and lubricate as described in the preceding instructions.
- 2. Coat tilling tines with grease to prevent rusting.
- 3. Prepare engine for storage in accordance with engine manufacturer's owner's guide.
- 4. Block tiller legs to raise tires clear of floor. Be sure tiller is level.
- 5. Store in a dry, clean area.

ATTACHMENTS

Extension Tines—This attachment is available to increase your tilling width up to 40". Extension tines are easily installed and removed. Order under part number 299-162A.

Furrow Opener—This attachment is easily installed on the depth bar of your tiller. It can be used for either furrowing or hilling operations. These attachments are available through your local dealer.

For wide (2" x .43") depth bar, order furrow opener 299-179A.

TILLER WINTERIZING INSTRUCTIONS FOR USE WITH SNOW BLADE:

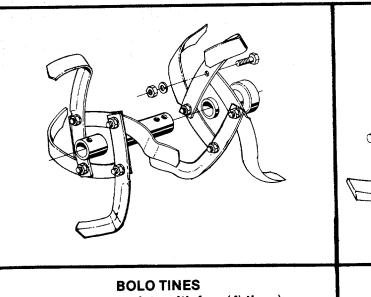
- 1. For cold weather, (below 32°F.), drain oil from tiller engine crankcase and replace with SAE 10W or 10W-20W detergent oil.
- Replace any remaining fuel on hand or in the engine fuel tank with a fresh supply of winter grade fuel. Winter fuels contain additives for faster starts. Keep fuel tank full.

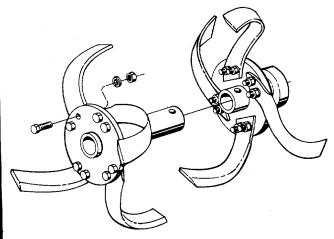


It may be necessary to enrich the carburetor idle and high speed jets 1/8 to 1/4 turn (counterclockwise) for good performance.

3. In the spring of the year, before the tilling season, be sure to change engine oil back to SAE 30W detergent oil.

TINE CHART





(have a square plate with four (4) tines)

12" Bolo Tines 04293

for Gear Case

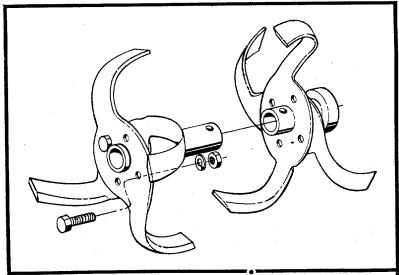
Models

04701	Inner tine ass'y. L.H.
04702	Inner tine ass'y. R.H.
04293	Outer tine ass'y. L.H.
04294	Outer tine ass'y. R.H.
742-0105	Tine only L.H.
742-0106	Tine only R.H.
04683	Outer tine adapter
04673	Inner tine adapter

SLASHER TINES (have a round plate with eight (8) bolts)

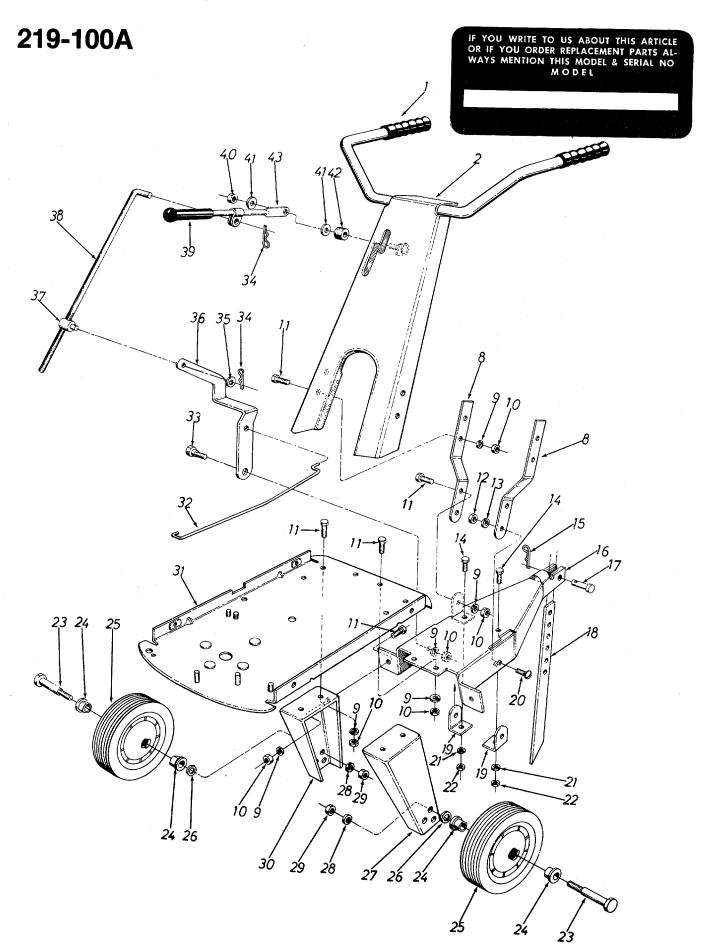
14" Slasher
Tines for Gear
Case Models
with 1" tine
shaft
-

Inner tine ass'y. L.H. 04677 Inner tine ass'y. R.H. 04678 Outer tine ass'y. L.H. 04297 Outer tine ass'y. R.H. 04298 Tine only L.H. 742-0113 Tine only R.H. 742-0110 Outer tine adapter 04265 Inner tine adapter 04674



BEAVER TINES (have three welded pieces, no hardware)

14" Beaver	742-0155	Inner tine ass'y. L.H.
Tines for Gear	742-0154	Inner tine ass'y. R.H.
Case Models	742-0167	Outer tine ass'y. L.H.
with 1" tine	742-0168	Outer tine ass'y. R.H.
shaft		



PARTS LIST FOR MODEL 219-100A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	01166		Grip—Black		26	736-025	53	Belleville Wash505 I.D. x	
2	04624		Handle Ass'y.				400	1.00 O.D.	
8	04386				27	04109		Leg—Left Hand	
9	736-016		L-Wash. 3/8" Scr.*		28	736-092		L-Wash. 1/2" Scr.*	
10	712-079		Hex Nut 3/8-16 Thd.*		29	712-023		Hex Nut 1/2-20 Thd.*	
11	710-025	3	Hex Scr. 3/8-16 x 1.00" Lg.*		30	04110	-463	Leg—Right Hand	
12	712-026		Hex Nut 5/16-18 Thd.*		31		—463	Mounting Plate Ass'y.	
13	736-011	9	L-Wash. 5/16" Scr.*		32	747-014	-	Lower Control Rod	
14	710-011		Hex Scr. 5/16-18 x .75" Lg.*		33	738-018	13	Shoulder Scr500" Dia. x	
15	732-019		Spring Pin					.215	
16	04329	463	Tail Piece Ass'y.		34	714-011	5	Cotter Pin 1/8" Dia. x 1.00"	
17	711-023		Clevis Pin .500" Dia.					Lg.*	
18	04668				35	736-020	04	FI-Wash344" I.D. x .62 O.D	.
19	04124	463	Handle Mount Brackets		36	04619		Control Pivot Lever	
20	710-027	6	Carriage Bolt 5/16-18 x 1.00"		37	711-039		Adjustment Ferrule	l
			Lg.*		38	711-050		Control Rod 20"	1
21	736-011	9	L-Wash. 5/16" Scr. *		39	720-014		Grip—Black	Ì
22	712-026	7	Hex Nut 5/16-18 Thd.*		40	712-015	58	Hex Inserted L-Nut 5/16-18	
23	738-031	8	Shoulder Scr625" Dia. x					Thd.	1
			2.75 (½-20 Thd.)		41	736-015	59	FI-Wash344 I.D. x .88 O.D.	l
24	741-011	6	Flange Brg. with Flats .631		42	735-012	26	Rubber Wash33 I.D. x .87	
25	734-058	5	I.D. Wheel Ass'y. 9.0 x 1.75		43	04392		O.D. Clutch Leve ^r Ass'y.	

^{*}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.

(463—Top Flite Red) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e.g. Top Flite Red Finish—04624 (463))

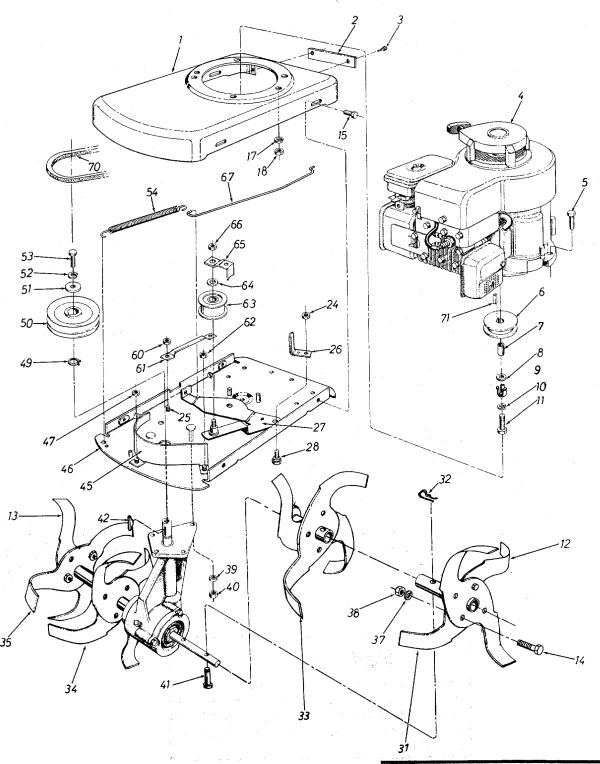
The engine is not under warranty by the tiller manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines-Gasoline."





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.

219-100A



INNER TINE ASS'Y.—COMP.—L.H. 742-0155 Optional Tine INNER TINE ASS'Y.—COMP.—R.H. 742-0154 Extension—Order

OUTER TINE ASS'Y .- COMP. - L.H. 742-0167 Part No. 298-162A OUTER TINE ASS'Y.—COMP.—R.H 742-0168 04673



Due to specification changes on tiller tines, the tines on your tiller may be different than the ones shown here. When ordering replacement parts, see tine chart on page 9.

PARTS LIST FOR MODEL 219-100A

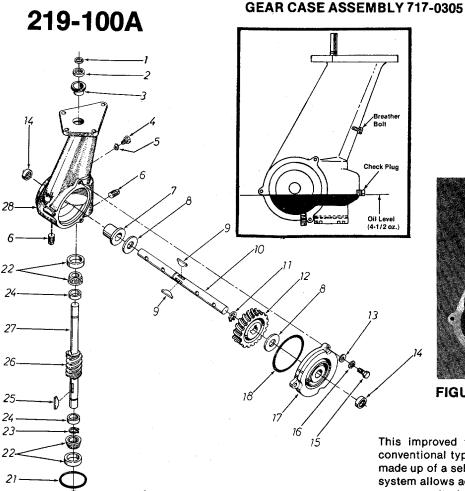
REF.	PART COLOR NO. CODE	DESCRIPTION	NEW PART	REF.	PART COLO		NEW PART
1 2 3	04258 —312 04126 710-0128	Engine Bed Inspection Plate Hex F-Tapp Scr. #10-32 x .50" Lg.* Engine		38 39 40 41 42	712-0241 736-0169 712-0798 711-0599 714-0126	Hex Nut 3/8-24 Thd.* L-Wash. 3/8" Scr.* Hex Nut 3/8-16 Thd.* Clevis Pin 3/8" Dia. #9 Hi-Pro-Key 3/16 x 3/4" Dia.	
5 6 7 8 9	710-0158 756-0248 750-0284 736-0117 04259	Hex Scr. 5/16-24 x 1.25" Lg.* Sheave 3.0" x .50 Spacer Fl-Wash385" I.D. x .62 O.D. Engine b00" Care		45 46 47 49 50	04197 —46 104691 —46 1712-0107 1716-0119 1756-0249	Mounting Plate Ass'y. Hex Cent. L-Nut ¼-20 Thd. Snap Ring ¾" Dia. Shaft Pulley—Double Groove 4.50'	,
10 11 12 13 14	736-0169 710-0152 742-0166 742-0165 710-0152	L-Wash. 3/8" Scr.* Hex Scr. 3/8-24 x 1.00" Lg.* Double Tine R.H. Double Tine L.H. Hex Scr. 3/8-24 x 1.0" Lg.		51 52 53 54	736-0231 736-0119 710-0118 732-0233	O.D. FI-Wash344 x 1.125 L-Wash. 5/16" Scr.* Hex Scr. 5/16-18 x .75" Lg.* Spring Extension .62 O.D. x 4.94 Lg.	
15 17 18 24 25	710-0259 736-0119 712-0123 712-0181 710-0600	Hex Sems Scr. 5/16-18 x .62" Lg.* L-Wash. 5/16" Scr.* Hex Nut 5/16-24 Thd.* Hex Top L-Nut 3/8-16 Thd.* Hex WashHd. Self Tapp.		60 61 62 63 64	712-0107 04196 712-0107 756-0370 736-0300	Hex Cent. L-Nut 1/4-20 Thd. Hold Down Clamp Hex Cent. L-Nut 1/4-20 Thd. Idler Bearing Ass'y. FI-Wash385" I.D. x .870" O.D.	
26 27 28	04204 04688 738-0183	Scr. 5/16-24 x .50" Lg. Belt Pusher Idler Brkt. Ass'y. Shoulder Scr500" Dia. x .215 Outer Tine Ass'y. L.H.		65 66 67 70	07353 712-0158 747-0148 754-0196	Belt Clip Hex Cent. L-Nut 5/16-18 Thd Lower Control Rod V-Belt ½" x 30" Lg. (Forward Belt) Fiber "B"	
32 33 34 35 36 37	714-0145 742-0155 742-0154 742-0168 742-0106 736-0169	Internal Cotter Pin Inner Tine Ass'y. L.H. Inner Tine Ass'y. R.H. Outer Tine Ass'y. R.H. Tine 12"—Right Hand L-Wash. 3/8" Scr.*		71 72	714-0105 711-0599	Sq. Key 3/16 x 3/16 x 1.00" Lg. Clevis Pin	

^{*}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.

(463—Top Flite Red) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e.g Top Flite Red Finish—04624 (463))

The engine is not under warranty by the tiller 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."





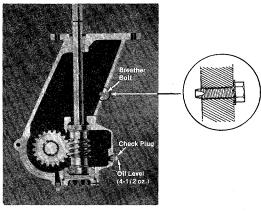


FIGURE 1.

This improved tiller gear case is not equipped with the conventional type breather plug. In its place is an assembly made up of a self tapping screw and a star type washer. This system allows adequate relief of built up pressure within the gear case. It also reduces lubricant leakage to a minimum. See figure 1.

NOTE: Use 4½ ounces of Pennant Oil EP#35000. Order Part No. 737-0136.

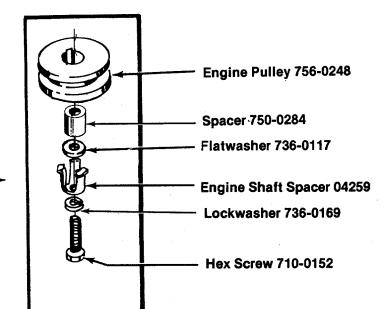
PARTS LIST FOR GEAR CASE ASSEMBLY 717-0305

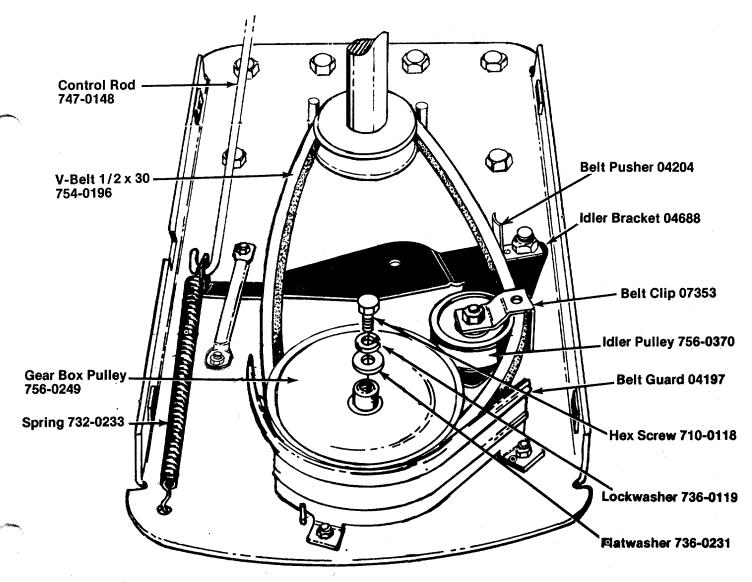
PART				THE LIST ON GEAR GAGE AGGENIDE 1 717-0303							
NO.	COLOR	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART			
		Snap Ring .75" Dia. Shaft		16	736-02	61	Wash.—Flat Toothed	<u> </u>			
'21-010	0	Oil Seal .75" Dia. Shaft					(Special)	1			
'41-019	7	Sleeve Brg752 I.D. x .878		17	741-01	88	Bearing Cap with Bearing				
				18	735-01	01	"O"-Ring 3.62" I.D. x 3.88				
							O.D. x .12				
				19	714-04	74	Cotter Pin 1/8" Dia. x .75"				
737-010	3						Lg.*				
741- 018	9			20	10583		Bearing Adjustment Cap				
736- 025	9			21	735-01	00	"O"-Ring 2.12 I.D. x 2.28				
							O.D. x .12				
714-010	3			22	741-01	07					
	_			23	716-01	01		1			
			l	24	711-04	69	Spacer .755 I.D. x 1.265 O.D.				
			t				x .502	}			
				25	714-01	26	#9 Hi-Pro Key 3/16 x .75" Dia.				
				26	717-03	12	Worm				
721-01 0	2			27	738-01	71	Worm Shaft				
				28	719-02	23	Gear Case	1			
710-037	' 1		1		1 .						
		(Plastic Insert)					to the second se	1			
	16-011 21-010 41-019 10-059 36-022 37-010 41-018 36-025 14-010 11-062 16-010 17-031 36-011	16-0119 21-0100 41-0197 10-0599 36-0222 37-0103 41-0189 36-0259 14-0103 11-0622 16-0102 17-0311 36-0119 21-0102	Snap Ring .75" Dia. Shaft	16-0119	16-0119	16-0119	16-0119	16-0119			

^{*}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.

219-100A TILLER DRIVE MECHANISM

Engine Pulley Assembly





ACCESSORIES AVAILABLE FOR TILLER MODEL 219-100A

299-160	Pneumatic Tire Kit
299-161	15" Sweep Plow
299-163	32" Leveling Rake
299-167	Hilling Plow (Must be used with 299-169 "V" Bar Frame Adapter)
299-168	Six Tang Cultivator (Recommended use of 299-191 Depth Gauge Wheels)
299-169	"V" Bar Frame Adapter (Recom- mended use of 299-191 Depth Gauge Wheels)
299-179	8" Furrow Opener
299-181	Aereator (Recommended use of 299-194 Wheel Weights in firm soil)
299-190	Four Shovel Cultivator (Must be used with 299-169 "V" Bar Frame Adapter)
299-191	Depth Gauge Wheels
299-192	Tine Cultivating Shields
299-194	Wheel Weights
299-195	Tire Chains (13" x 5")
299-196	32" Angle Dozer Blade

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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 number, description of parts and the quantity of each part required.

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor	Co 2625 4th Ave. S 35233
ARKANSAS Sutton's Lawn Mower Sho	Co 2625 4th Ave. S 35233 NORTH LITTLE ROCK p Rt. 4 Box 368
	FORT SMITH
Mity Mite Motors, Inc	2515 Towson Ave 72901
Billious	PORTERVILLE 75 North D Street 93257
	SAN RERNARDINO
Lawn Mower Supply Co	SAN FRANCISCO
J.W. Jewett Co	SAN FRANCISCO 981 Folsom St 94107
Luttia & Severson	SACRAMENTO 2030 28th St 95818
COLORADO	DENVER
South Denver Lawn Equip. FLORIDA	527 West Evans 80223
Radco Distributors	JACKSONVILLE 2403 Market St 32206
Moz All of Florido Inc	CORAL GABLES 365 Greco Ave33146
GEORGIA	EAST POINT
East Point Cycle & Key	2834 Church St30344
ILLINOIS Keen Edge Co	EAST POINT 2834 Church St 30344 LYONS 8615 Ogden Ave 60534
INDIANA	ELKHART 2101 Industrial Pkwy46514
Parts & Sales Inc	2101 Industrial Pkwy46514 DUBUQUE
Power Lawn & Garden Foul	n. 2551 J.F. Kennedy 52001
LOUISIANA Subren Engine Co	NEW ORLEANS8330 Earhart Blvd70118 TAKOMA PARK6867 New Hampshire Ave20012
MARYLAND	TAKOMA PARK
Center Supply Co	6867 New Hampshire Ave 20012
Morton B. Collins Co	SPRINGFIELD 300 Birnie Ave01107
MICHIGAN Bower Equipment Dist	MOUNT CLEMENS 36463 South Gratiot 48043
Power Equipment Dist	LANSING
Lorenz Service Co	LANSING 2500 S. Pennsylvania .48900
MINNESOTA Hance Distributing Inc	MINNETONKA 11212 Wayzata Blvd 55343
D	ST. PAUL 3771 Sibley Memorial Hwy55122
MISSISSIPPI	3771 Sibley Memorial Hwy55122 BILOXI
Biloxi Sales & Service, Inc.	506 Caillavet St 39533
MISSOURI Automotive Equip Service	KANSAS CITY 3117 Holmes St 64109
	ST. JOSEPH
Ross-Frazier Supply Co	8th and Monteray64503
Henzler, Inc	2015 Lemay Ferry Rd63125
NEW JERSEY	ST. LOUIS ST. LOUIS 2015 Lemay Ferry Rd63125 BELLMAWR .717 Creek Rd., P.O. Box 7.08030
Feld Distributor	28 Glen Rd 07070
NEW YORK	CARTHAGE West End Ave13619
Gamble Dist., Inc	west End Ave13619

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 firm. Check the yellow pages of your telephone directory under the listing Engines—Gasoline, Briggs & Stratton or Tecumseh Lauson.

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CTD Lainura Dandurata La	SYRACUSE
NORTH CAROLINA	420 Marcellus St13204 GREENSBORO
Dixie Sales Company	GREENSBORO327 Battleground Ave. 27402 GOLDSBORO
Smith Hardware Co OHIO	GOLDSBORO515 N. George St27530
National Central	WADSWORTH 687 Seville Rd 44281
Bleckrie, Inc	CLEVELAND7900 Lorain Ave44102
Stebe's Mid-State Mower S	CARROLL upply.Box 366-71 High St 43112
Durata a Occurred	YOUNGSTOWN
OKLAHOMA	MUSKOGEE
Victory Motors, Inc	OKLAHOMA CITY
Forest Sales Inc	301 Logan Ave. Box 929 . 44501 MUSKOGEE605 S. Cherokee74401 OKLAHOMA CITY1039 NW 63rd St73116 ADA301 E. 12th St74820 PORTLAND8216 N. Denver Ave97217 CHESTER
Ada Auto Supply OREGON	301 E. 12th St74820
Kenton Supply Co	8216 N. Denver Ave97217
Stull Equipment Com	74034 5 101
EECO Inc.	HARRISBURG 4021 N. 6th St 17110 PHILADELPHIA 5222-24 N Fifth St 19120 PITTSBURGH
Thompson Bubber Co	PHILADELPHIA
monipson Rubber Co	PITTSBURGH
Master Repair Service	KNOXVILLE 2423 Broadway, N.E37917 MEMPHIS
Memphis Cycle & Supply Co	0 421 Monroe Ave 38103
TEXAS	nc 1922 Lynnbrook 38116 DALLAS 423 E. Jefferson 75203
Marr Brothers, Inc	423 E. Jefferson75203
Bullard Supply Co	HOUSTON2409 Commerce St77003
Catto & Putty, Inc	SAN ANTONIO P.O. Box 2408 78206
Woodson Sales Corp	FORT WORTH 1702 N. Sylvania 76111
A-1 Engine & Mower Co	SALT LAKE CITY 437 F 9th St 94111
VERMONT Vermont Howe Co. Inc.	BURLINGTON 180 Flynn Ave 05401
VIRGINIA PRI Corp	RICHMOND963 Myers St23260
WASHINGTON	963 Myers St23260 SEATTLE 1414 14th Ave98122
WEST VIRGINIA	1414 14th Ave 98122 CHARLESTON
Young's, Inc	CHARLESTON233 Virginia St., E25301 APPLETON123 S. Linwood Ave54911
Automotive Supply Co	123 S. Linwood Ave 54911

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 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 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.