

Simplicity[®]

**OPERATOR'S
MANUAL
MODEL
1002
TILLER**



2 H.P. TILLER
MFG. NO. 1690322



**CAUTION: Read Manual Thoroughly
Before Operating**

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GENERAL INTRODUCTION

This Owner's Guide has been prepared to provide the information needed to assemble and operate your tiller with greater satisfaction. Read this Owner's Guide carefully. Be sure you know what the controls are for and how they operate. The care your tiller requires is small, but important. Keep it clean and well lubri-

cated. With proper care and operation, as explained in this manual, you will obtain long and efficient service.

A separate engine instruction manual is also provided. Refer to this manual for engine operation, adjustment and maintenance.

THINK OF SAFETY BEFORE YOU USE YOUR ROTARY TILLER

Your rotary tiller was built to the highest standards. However, a rotary tiller is only as safe as the operator. As with any type of power equipment, carelessness or error on the part of the operator can result in injury. Please read and follow these instructions on safe operation and be certain anyone using this rotary tiller is familiar with these simple rules:

- Improper use of the rotary tiller can result in injury. Give complete and undivided attention to the work you are doing.
- Know the controls and how they operate.
- Know how to stop the rotary tiller and engine.
- Disengage power and stop engine before cleaning, removing obstacles, or making adjustment.
- Keep children and pets a safe distance away from rotary tiller.
- Do not allow anyone to operate rotary tiller without proper instruction and supervision.

- Exercise caution to avoid falling.
- Don't start the engine and tines until you are ready to start tilling. Stop the engine whenever you leave the machine.
- The compact tiller can be lifted manually and moved from one place to another. However, NEVER lift or move this tiller without first stopping the engine, as this is an unsafe practice and may lead to an injury.
- Keep hands, feet and clothing away from power-drive parts.
- Keep rotary tiller in good operating condition and keep safety devices in place.
- Store gasoline in a safe container. Store the container in a cool, dry place.
- Fill fuel tank outdoors. Avoid spilling gasoline. Don't fill tank while engine is running or while you are smoking. Do not fill hot engine. Exhaust gases are dangerous; do not start or run engine indoors.

INITIAL SERVICING

- Before starting the engine, refer to the engine instructions. Be certain that the engine crankcase is filled with the proper type oil and that all engine service instructions have been followed completely.
- Fill fuel tank with a clean, fresh, lead-free or leaded

"regular" grade of automotive gasoline. Do NOT mix oil with gasoline.

- All nuts and bolts should be checked and tightened during the first two (2) hours of use. Periodic checks should be made thereafter.

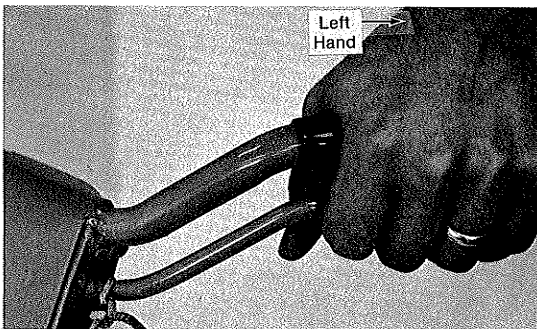


FIG. 1

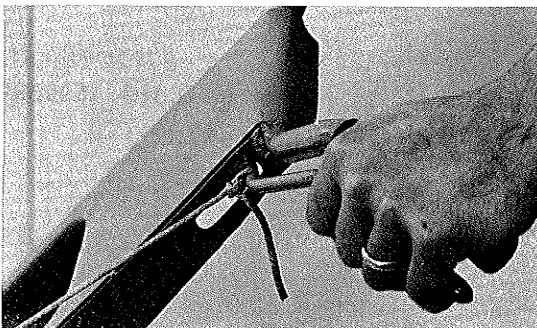


FIG. 2

CONTROLS AND OPERATION

With control lever held firmly but comfortably to the handle of tiller the clutch is engaged and the tines will rotate, as shown in Figure 1 and 2.

With control lever in the position as Figure 3, tines will not turn.

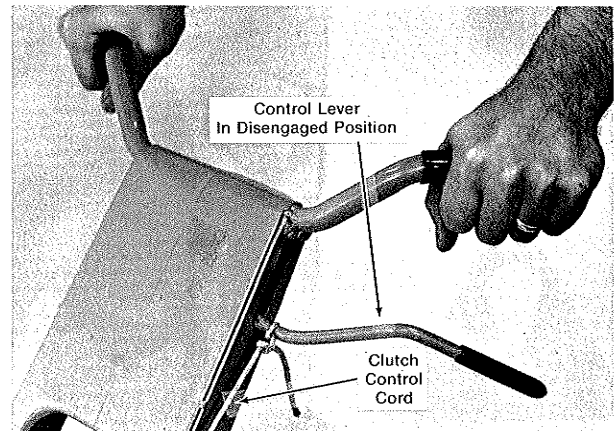


FIG. 3

DEPTH CONTROL

The depth control regulates the tilling depth and forward speed for the tiller. It has six (6) different depth positions plus 1 transport position, and two Hex Socket holes to use as wrenches. (See Fig. 4.)

The lower you set the control, the slower the tiller will propel itself forward, but at the same time you will be increasing the working depth of tines. By raising the depth control, you will be increasing the forward speed of the tiller but decreasing the working depth.

There may be occasions when you may prefer not to use the depth control, such as while tilling in loose soil. In these instances, you will have to hold the tiller back slightly. However, do not struggle with the tiller. Permit the tiller to do the work it was designed to do. Remove depth control from tail piece section when not using.

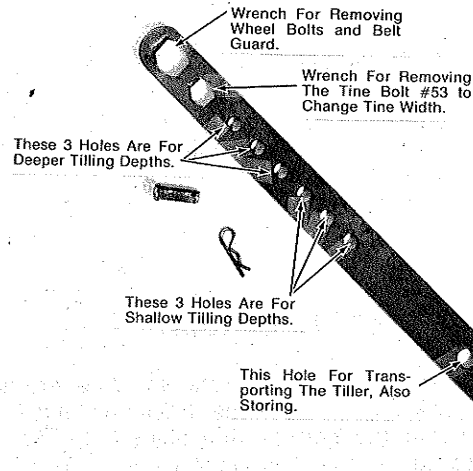


FIGURE 4

OPERATING SUGGESTIONS

As the operator lifts up on the handle bar, Fig. 5, the depth control is pulled slightly out of the soil, allowing the tiller to inch its way forward.

As the operator presses down on the handle bar, Fig. 6, the depth control bites deeper into the ground holding the tiller back, letting the tines dig deep into the soil.

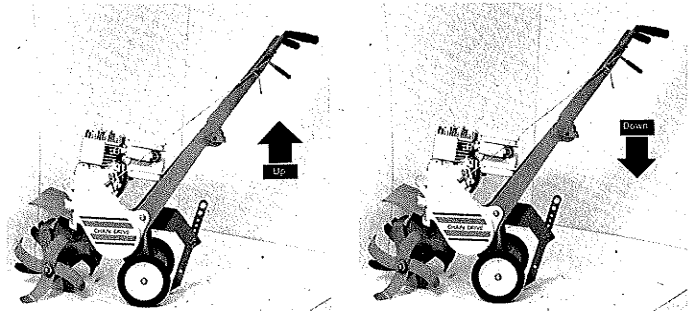


FIGURE 5

FIGURE 6

ADJUSTMENTS



WARNING

Before attempting to inspect, adjust or service the rotary tiller make sure the engine is stopped and the spark plug wire disconnected.

BELT REPLACEMENT

Use only the belt size and type designed for your machine. Replace belt as shown in Fig. 7. Note position of idler pulley shaft for lube purpose.

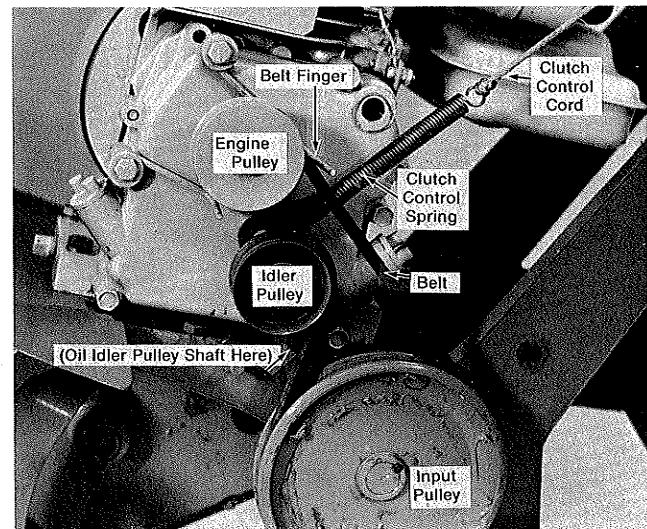


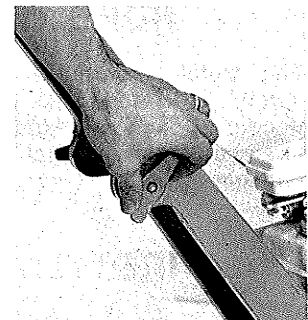
FIGURE 7

HANDLE ADJUSTMENT

Place handle in upright position for operating tiller by lifting handle #16 from behind wheels to the upright locking position. Secure wing nut #34 on right hand side of handle. To return handle to position down behind wheels for storage or transport free wing nut and place handle down.

FIGURE 8

By Loosening Handle Bolt and Placing Handle Down Over Wheels, Tiller Is Easier To Store or Transport.



TINE ADJUSTMENT

This compact tiller comes with four (4) sets of (2) tines (Fig. 10). One blade (Fig. 11) or two blades (Fig. 12) can be added to each set to give more blades for better tilling and better loosening of soil. For assembly of tine shaft and tines. See Fig. 9.

IMPORTANT:

When the outer tine assembly and the tine extension is removed you must secure the inner tine hub to the tine shaft using the shorter tine shaft bolts #59. All items removed should be stored for future use. Shorter bolts are stored in the lower right handle.

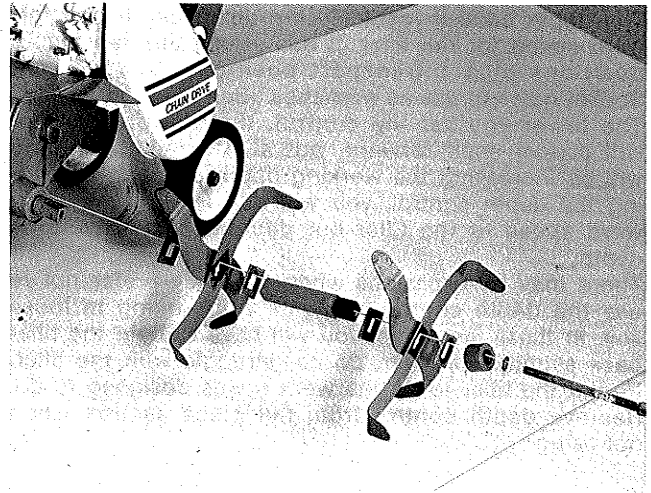


FIGURE 9

TINE VARIATIONS

FIGURE 10

Two Tines

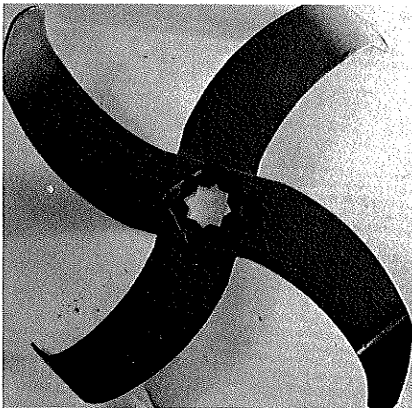


FIGURE 11

Three Tines

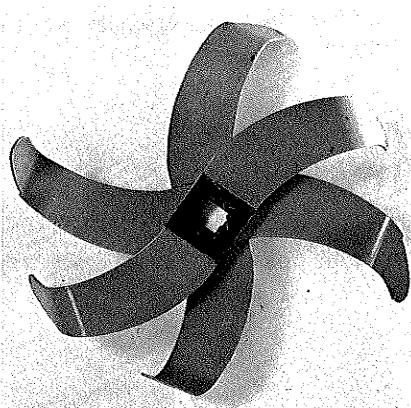
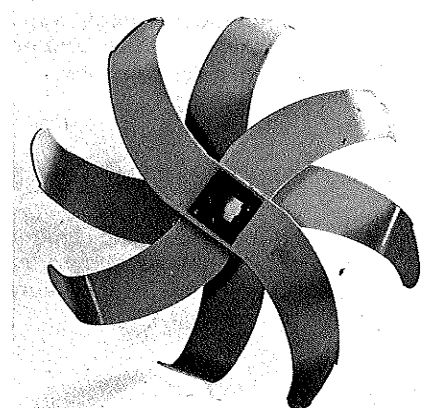


FIGURE 12

Four Tines



CLUTCH CONTROL ROPE ADJUSTMENT

The clutch control is properly adjusted when the spring is extended $\frac{3}{4}$ of an inch when the clutch handle is engaged. Adjust rope length so that spring stretches $\frac{3}{4}$ of an inch when clutch handle is fully engaged.

THROTTLE ADJUSTMENT

To adjust throttle note instruction as indicated on engine gas tank decal for fast and slow engine rpm.

STARTING THE TILLER

Now that you have located the controls and understand their operations and functions, it is time to start your tiller.

Be certain the clutch control lever is not engaged.

1. Push stop switch away from spark plug. See engine instructions.
2. Pull choke out. See engine instructions.
3. Pull out the recoil starter cord rapidly. When the engine starts, return starter cord slowly and push the choke back in gradually.

To Stop Engine:

1. Push stop switch against the end of spark plug.

TINE ARRANGEMENTS

This tiller is very handy to prepare seed beds or cultivate. You have a choice of 7 different tilling widths (6", 8", 10", 12", 14", 16" & 18") which are yours just by interchanging tines or removing outer tine hub assemblies. (See Fig. 13 to 20).

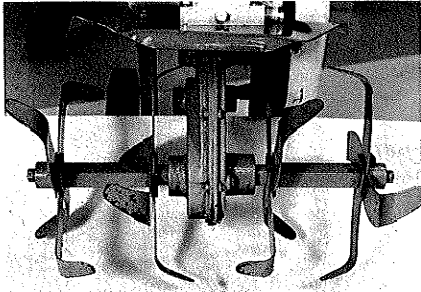


FIGURE 13
18" Tilling Width

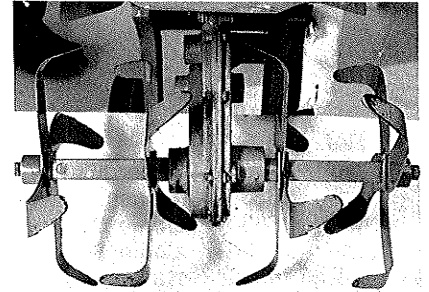


FIGURE 14
14" Tilling Width

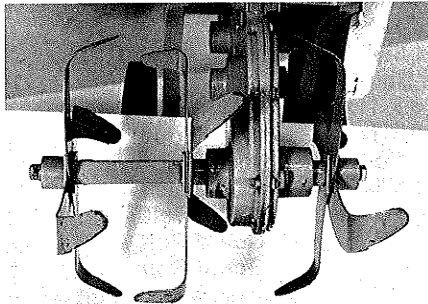


FIGURE 15
12" Tilling Width
Right-Hand

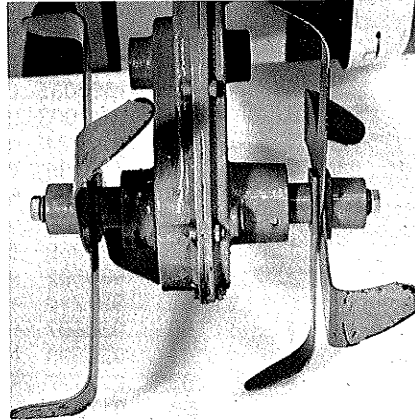


FIGURE 16
10" Tilling Width

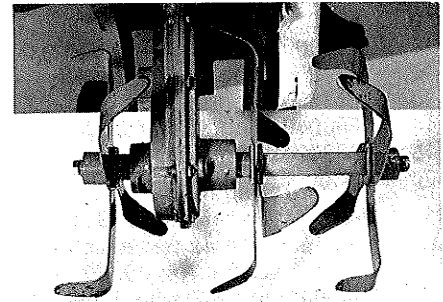


FIGURE 17
12" Tilling Width
Left-Hand

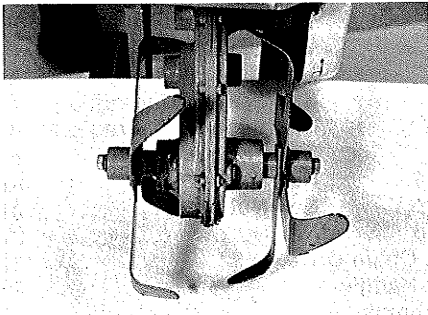


FIGURE 18
8" Tilling Width
Right-Hand

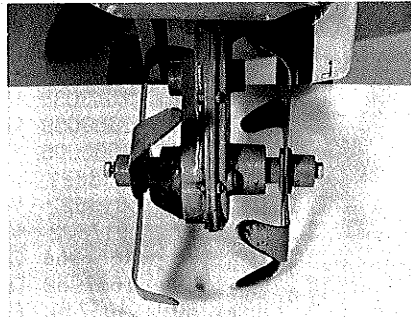


FIGURE 19
6" Tilling Width

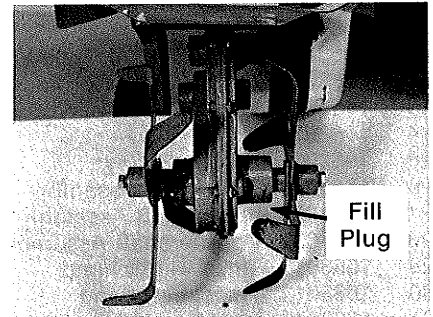


FIGURE 20
8" Tilling Width
Left-Hand

TILLER CARE

For the most dependable service from your tiller keep the unit clean, rust free and well lubricated. When tiller is not being used it should be stored in a dry place out of the weather. Check bolts to be sure they are kept tight.

LUBRICATION

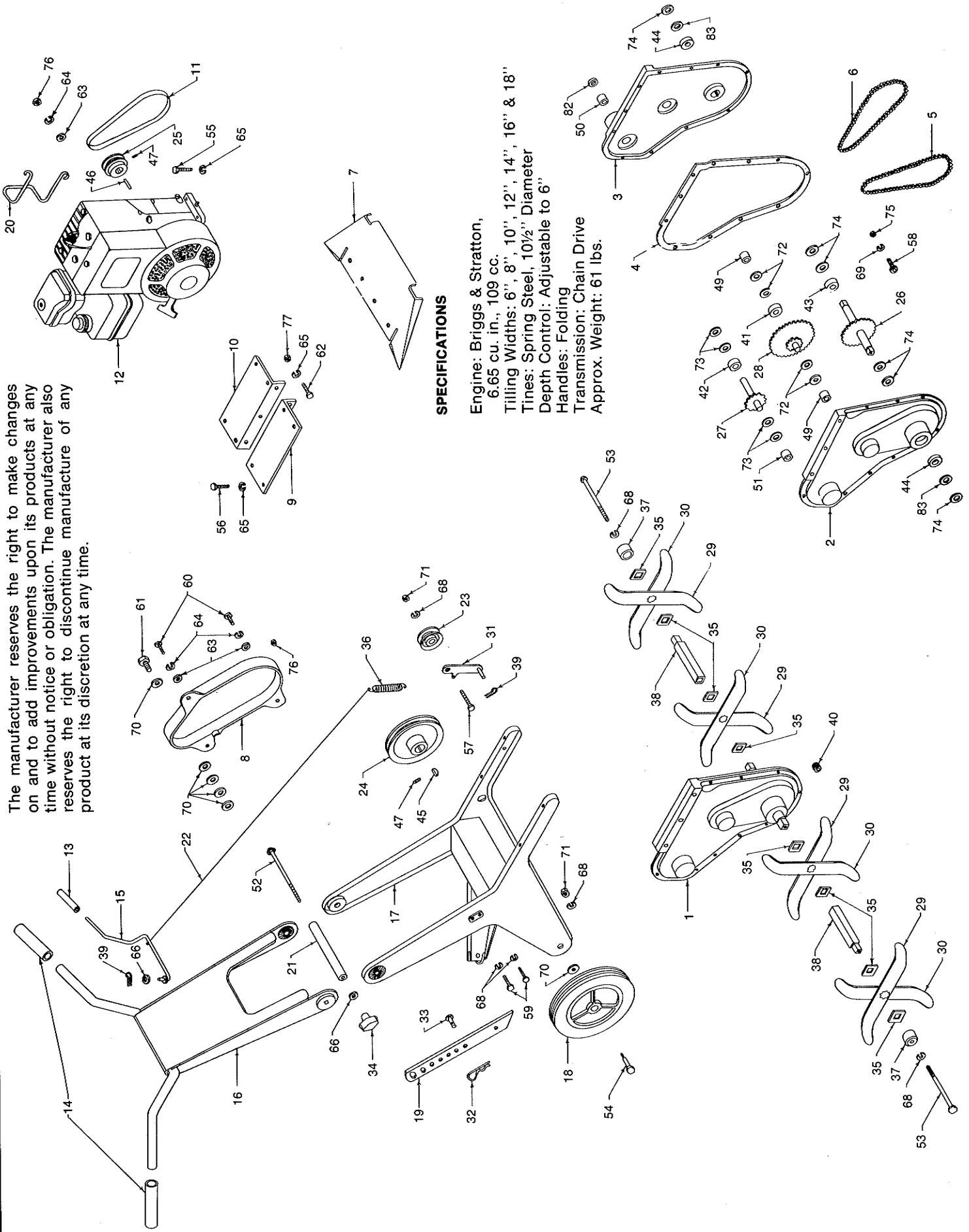
1. Engine. Read the engine operating instructions for maintenance and lubrication of engine.
2. Wheels. Remove, clean and lubricate wheels every 10 hours of operation using S.A.E. #30 wt. oil.
3. Chain Case. The chain case requires #90 automotive differential lubrication, fill to plug height as tiller is in tilling position. (See Fig. 20).

OWNER'S MANUAL & PARTS LIST

SIMPLICITY MODEL 1002 TILLER

Ref. No.	Simplicity Part No.	Description	Qty.				
				40	901652	Oil Check Plug	1
				41	1663034	Bevel Washer, 1/2" id	1
				42	1663033	Bevel Washer, 5/8" id	1
				43	1663032	Bevel Washer, 1" id	1
				44	1663006	Oil Seal	2
				45	905123	3/16 x 3/4" Woodruff Key	1
				46	905850	3/16 x 1" Straight Key	1
				47	928691	5/16-18 x 5/16 Socket Setscrews	2
				49	172948	Oillite Bearing	2
				50	1663018	Oillite Bearing, 1" long	1
				51	1663035	Oillite Bearing, 3/4" long	1
				52	1663003	Handle Hinge Bolt	1
				53	922224	3/8-16 x 5 1/2" Tine Bolt	2
				54	170135	Wheel Bolts	2
				55	921221	5/16"-18 x 1 1/2" Motor Mount Bolt	4
				56	921332	5/16"-18 x 3/4" Gearcase Mount Bolt	4
				57	921969	3/8-16 x 1 1/2" Idler Arm Bolt	1
				58	930592	#10-24 x 5/8" Socket Capscrew	10
				59	921210	3/8-16 x 1" Short Tine Bolt	2
				60	930607	1/4-20 x 3/4" Belt Guard Bolt	2
				61	929528	1/2-20 x 3/4" Belt Guard Bolt	1
				62	922127	5/16"-18 x 1 3/4" Gearcase Mount Bolt	3
				63	917377	1/4" Flatwasher	2
				64	916964	1/4" Lockwasher	4
				65	917356	5/16" Lockwasher	11
				66	917642	5/16" Flatwasher	2
				68	916965	3/8" Lockwasher	7
				69	917365	#10 Lockwasher	10
				70	153072	1/2" Washer Special	6
				71	916950	3/8-16 Hex Nut	3
				72	1663038	1/2" id Shaft spacer (as req'd.)	4
				73	1663039	5/8" id Shaft spacer (as req'd.)	4
				74	1663005	1" id Shaft spacer	6
				75	916621	#10-24 Hex Nut	10
				76	916622	1/4-20 Hex Nut	4
				77	917372	5/16"-18 Hex Nut	3
				78	1657964	Decal, Chain Drive	1
				79	1657963	Decal, Handle	1
				80	106719	Film, Simplicity	1
				81		ID Plate	1
				82	1663458	Oil Seal	1
				83	1663459	Felt Seal	2
1	1663008	Transmission Assembly	1				
2	1663016	Chain Case, Right side	1				
3	1663017	Chain Case, Left side	1				
4	1663040	Gasket	1				
5	1663023	Drive Chain, Lower	1				
6	1663022	Drive Chain, Upper	1				
7	1663004	Tine Shield	1				
8	1663026	Belt Guard	1				
9	1663020	Engine Mount Plate, Left	1				
10	1663025	Engine Mount Plate, Right	1				
11	1663009	V-Belt, 3L280 Special	1				
12		Engine, 2 HP B&S	1				
13	1651820	Control Rod Grip	1				
14	1663043	Handle Bar Grip	2				
15	1663024	Control Lever	1				
16	1663019	Handle Bar Assembly	1				
		Serial No. 001001 through 002804.					
16	1663456	Handle Bar Assembly	1				
		Serial No. 002805 and up.					
17	1663001	Main Frame Assembly	1				
		Serial No. 001001 through 002804.					
17	1663457	Main Frame Assembly	1				
		Serial No. 002805 and up.					
18	1663015	Wheels, 7"	2				
19	1663021	Depth Stick	1				
20	1663041	Belt Finger	1				
21	1663007	Hinge Spacer Tube	1				
22	1663030	Clutch Drive Cord	1				
23	1657827	Idler Pulley	1				
24	1663036	Input Pulley	1				
25	1663010	Engine Pulley	1				
26	1663028	Tine Shaft Assembly	1				
27	1663029	Input Shaft Assembly	1				
28	1663037	Countershaft Assembly	1				
29	1663011	Tines, Right hand	4				
30	1663012	Tines, Left hand	4				
31	1663045	Idler Bracket Assembly	1				
32	923086	Hair Pin Clip	1				
33	156143	Clevis Pin	1				
34	1663002	Handle Adjustment Knob	1				
35	1663013	Square Tine Washer	8				
36	1663027	Clutch Spring	1				
37	1663014	Tine End Cap	2				
38	1663044	Tine Spacer Assembly	2				
39	918451	1/8 x 3/4" Cotter Pin	2				

The manufacturer reserves the right to make changes on and to add improvements upon its products at any time without notice or obligation. The manufacturer also reserves the right to discontinue manufacture of any product at its discretion at any time.



SPECIFICATIONS

Engine: Briggs & Stratton,
 6.65 cu. in., 109 cc.
 Tilling Widths: 6", 8", 10", 12", 14", 16" & 18"
 Tines: Spring Steel, 10½" Diameter
 Depth Control: Adjustable to 6"
 Handles: Folding
 Transmission: Chain Drive
 Approx. Weight: 61 lbs.

HOW TO ORDER REPAIR PARTS

Your local dealer maintains a supply of parts. When ordering parts from your local dealer, be sure to send the following information:

- Serial Number. Include all letters and numbers.
- Model Name. Include all letters and numbers.
- Complete Part Number.
- Name of Each Part.
- Quantity of Each Part.

Parts and Service on your engine can be obtained through the engine manufacturer's outlets. See the yellow pages of your telephone book under "Engines - Gasoline" for name and address.

FILL IN THE FOLLOWING FOR YOUR FUTURE REFERENCE:

For Ordering Parts: (Not including engine)	For Ordering Engine Parts from the Engine Manufacturer's Outlet:
Unit Name _____	Engine Model Number _____
Model Number _____	Engine Type Number _____
Complete Serial Number _____	Engine Code or Serial Number _____

SIMPLICITY MANUFACTURING COMPANY
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