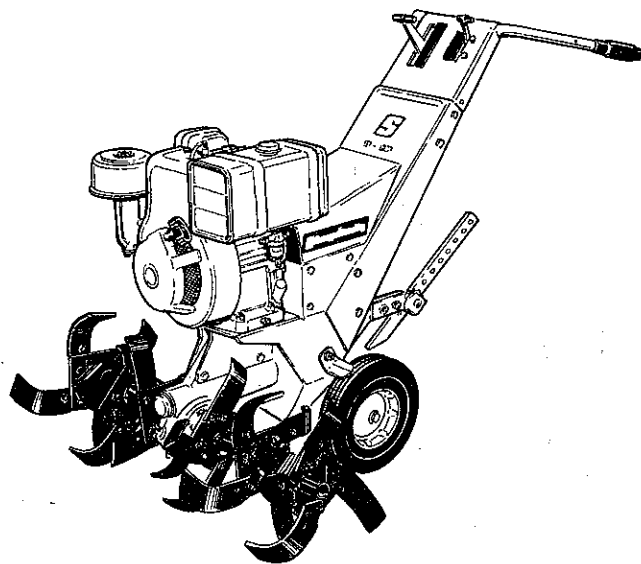


Simplicity®



MFG. NO. 910 8 H.P. ROTICUL REVERSING TILLER
TINE EXTENSION KIT MFG. NO. 945



SER. FORM - OP78
LITHO IN U.S.A.

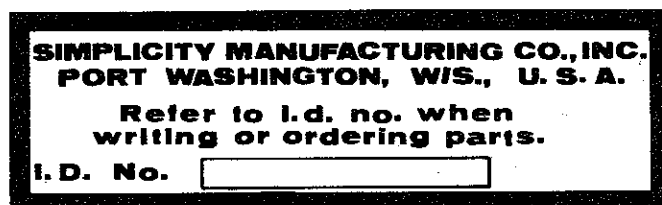
1642 #

TO THE OWNER

You have made a wise choice in selecting the Simplicity Roticul. It has been specially designed to give lasting superior performance. Before attempting to operate the Roticul, study this manual thoroughly. Pay special attention to the safety rules. Your Simplicity equipment is designed with your safety in mind, but it is up to you to be an alert, safety conscious operator. Be sure anyone else who may operate the Roticul is also familiar with the operation and safety instructions. Your Simplicity Roticul requires only a minimum of care. Following the maintenance instructions carefully will assure you of maximum satisfactory service.

Thank you for taking time to read this manual. The time spent will pay big dividends in the extra time saving performance you receive from your Simplicity Roticul.

When ordering replacement parts for your Roticul be prepared to give your Simplicity dealer the identification number found on the identification plate shown below. It is located on the Roticul frame. We suggest that you locate the number and record it below for easy reference.



IDENTIFICATION PLATE

SIMPLICITY'S NEW EQUIPMENT WARRANTY

The Company warrants Simplicity products to be free from defects in material and workmanship, except the Company makes no warranty, express or implied, with respect to tires, engines, generators and voltage regulators, which are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year (45 days for equipment used for rental, municipal or commercial purposes) under normal use, from date of purchase, will be replaced without charge, provided such part is returned to the factory, (if requested), and is found to be defective upon examination at the factory. This warranty does not apply to any Simplicity products altered outside of the Simplicity factory. THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PERFORMANCE, OR OTHERWISE. The Company's obligation under its warranty is strictly and exclusively limited to the replacement of such parts, and in no event shall the Company be liable for any other damages, whether direct, immediate, incidental, special, or consequential. Simplicity Manufacturing Company, Inc., reserves the right to modify or change specifications without prior notification. There are no warranties which extend beyond the description of any Simplicity product.

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SAFETY PRECAUTIONS TO PROTECT YOURSELVES AND OTHERS

Know the controls and how to stop quickly - **READ THE OWNER'S MANUAL.**

Do not allow children to operate the Roticut. Do not allow adults to operate it without proper instructions.

Clear the work area of objects which might be picked up and thrown.

Keep all nuts, bolts and screws tight to be sure equipment is in safe working condition.

Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.

Handle gasoline with care - it is highly flammable.

A. Use approved gasoline container.

B. Never remove cap or add gasoline to a running or hot engine or fill the fuel tank indoors. Wipe up spilled gasoline.

C. Open doors if the engine is run in a garage. Exhaust fumes are dangerous. Do not run engine indoors.

Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.

Allow the engine to cool before storing in any enclosure.

To reduce fire hazard keep the engine free of grass, leaves or excessive grease.

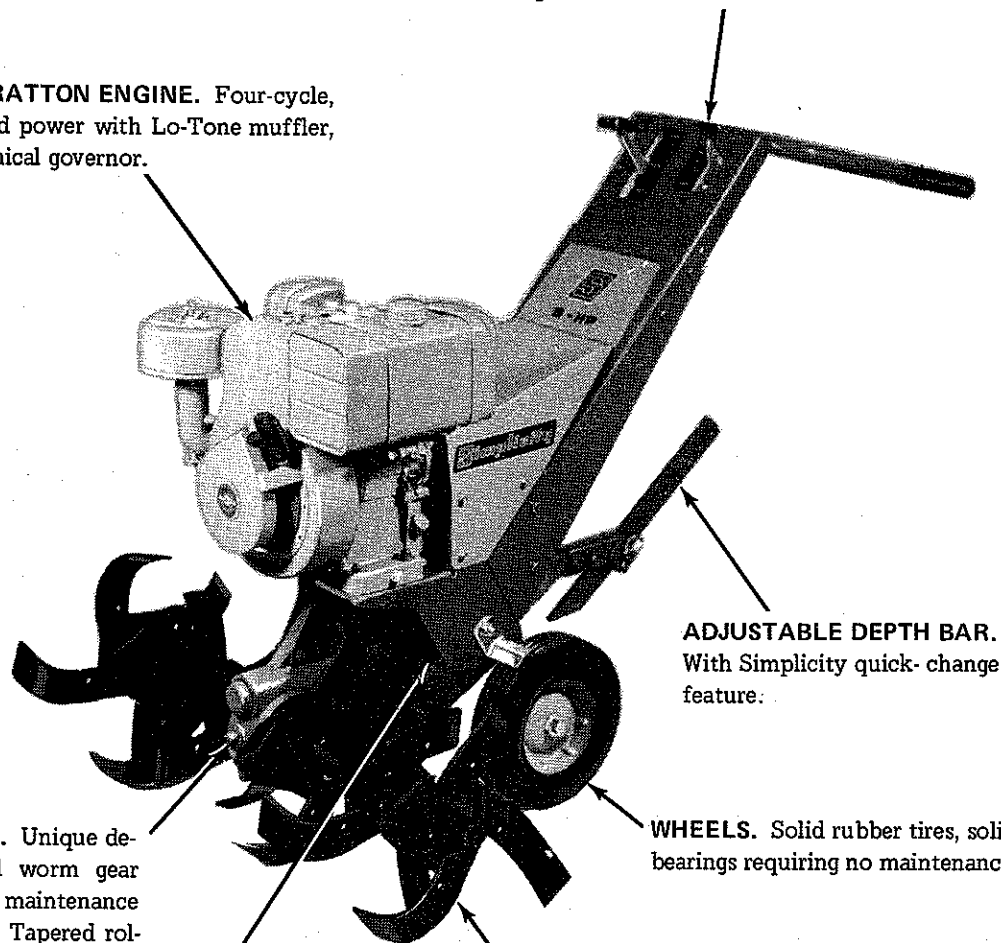
Release the clutch lever and stop the engine before cleaning the tines, removing obstacles, making adjustments, or when leaving the operating position.

Never allow children or pets to cross your path, or cause distractions in the area while operating.

Use caution to avoid slipping or falling, especially when operating in reverse.

8 H.P. BRIGGS & STRATTON ENGINE. Four-cycle, one-cylinder air-cooled power with Lo-Tone muffler, recoil starting, mechanical governor.

SAFETY INTERLOCK. Prevents starting in any other gear than NEUTRAL.



WORM GEAR DRIVE. Unique design requiring special worm gear lubricant to eliminate maintenance and assure durability. Tapered roller bearings front and rear.

ADJUSTABLE DEPTH BAR. With Simplicity quick-change feature.

WHEELS. Solid rubber tires, solid wheel bearings requiring no maintenance.

WELDED STEEL FRAME. Heavy-duty with rugged cross bracing, yet compact and balanced for easy tilling.

HIGH-CARBON, FORGED STEEL TINES. Slashing type design, adjustable to 35 inches wide (with extensions). Slide into the hardest baked, crusty surface to 7 inches deep, kneading the soil with smooth, spading action, leaving a crumbly texture perfect for planting.

TINE WARRANTY

Simplicity Manufacturing Company, Inc. warrants rotary tiller tines against breakage for the period not to exceed the normal life of the rotary tiller; and will replace broken lines directly to the customer at no charge; provided broken tines are returned prepaid to the Company's Service Department, Port Washington, Wisconsin.

OPERATION

Though your Simplicity dealer may have performed the before starting checks listed below, we suggest that you personally check each one so that you will become familiar with them, and also to insure that your Roticut is ready to operate the first time you use it.

BEFORE STARTING

1. Read this owners manual carefully. Be sure you are familiar with the safety precautions, controls, and operative instructions.

2. Perform the following engine checks:

a. Fuel: Turn the fuel tank cap (A, Figure 1) counter-clockwise to remove it. Fill tank with clean, fresh, leaded or non-leaded regular automotive grade gasoline. Do not mix oil with gasoline. Premium gasolines are not recommended as they increase carbon deposits in the engine.

CAUTION

GASOLINE IS HIGHLY FLAMMABLE. AVOID OVERFILLING. WIPE UP SPILLED FUEL. ALLOW NO OPEN FLAME, SMOKING, OR MACHINES NEAR AREA WHEN REFUELING. DO NOT RUN ENGINE WHEN ADDING FUEL.

Replace the filler cap securely. Store gasoline only in small quantities. Prolonged storage produces gum, and harmful deposits. If necessary to store gasoline for a long period, add Sta-Bil brand gasoline stabilizer, available at your Simplicity dealer.

b. Crankcase oil: Check engine crankcase (C, Figure 6) to be sure it is filled with correct grade and weight of oil. Refer to Maintenance section.

c. Worm Drive Housing Oil: The worm drive housing should be checked to insure it is filled to the check plug (B, Figure 1) with special gear oil available at your Simplicity dealer.

d. Air Cleaner: Be sure air cleaner element (C, Figure 1) is in place and properly sealed. If it is dirty, clean or replace it per Maintenance section of this manual.

3. Set the tine width as follows:

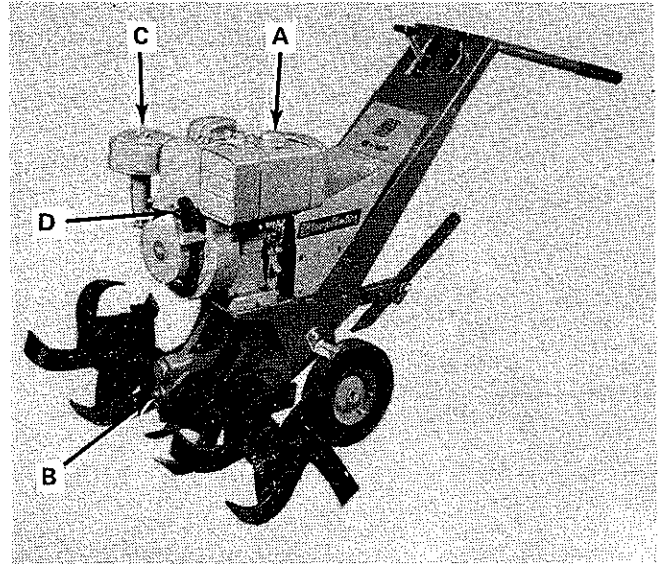


Figure 1. Before Starting Checks

a. Check condition of the tiller tines. Clean the tine shaft of any foreign material, and tighten any loose tine mounting bolts.

b. Figure 2 shows the Roticut with the standard tine arrangement which gives a tilling width of 23-1/2 inches. The two outer sets of tines can be removed to narrow the width to 12-7/8 inches if desired. Simply remove the mounting pins (A, Figure 2) on each side of the Roticut, then remove the outer set of tines. Figure 3 shows the Roticut with the outer set of tines removed to give a tilling width of 12-7/8 inches.

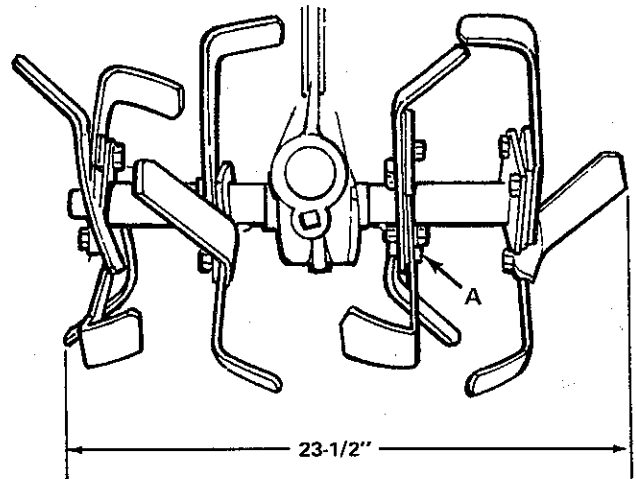


Figure 2. Roticut Set Up With Standard Tine Arrangement

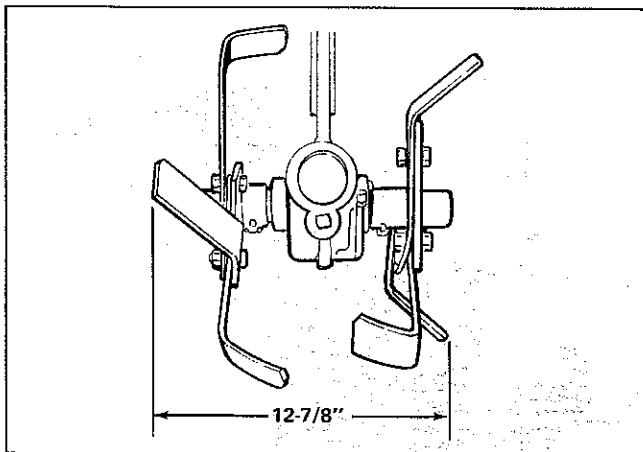


Figure 3. Roticul With Outer Tines Removed

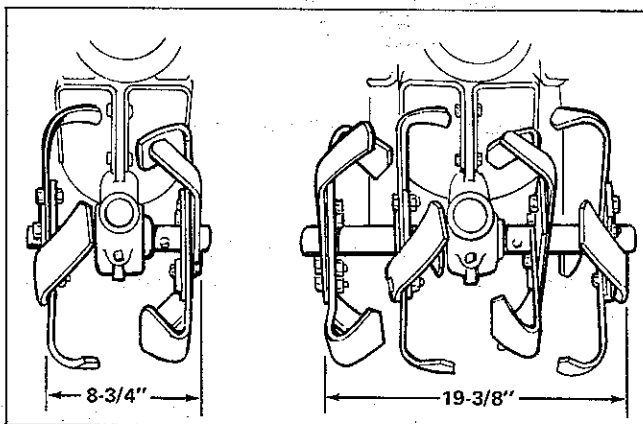


Figure 4. Tine Widths Changed By Turning Inward

Additional widths of 8-3/4 and 19-3/8 inches are illustrated in Figure 4. To accomplish these widths, the tine bolts must be removed and the tines switched so the outer tines face inward, rather than the normal outward position. Always be sure when rearranging tines, that the sharpened edges face forward. A set of tine extensions is available to extend the width to 35 inches. See your Simplicity dealer for these.

4. Check to be sure wheels are mounted in lower holes of the frame legs (A, Figure 5).

5. Adjust the depth bar (B, Figure 5) considering the following:

a. The depth bar gives the desired tilling depth. To till 4-6 inches deep, install mounting pin (C, Figure 5) in the second or third hole from the top and secure with a hairpin clip (D). Change pin location as desired. Install the bar with digging tip as shown in Figure 1. The deeper the bar is set in the soil, the deeper the tines will dig.

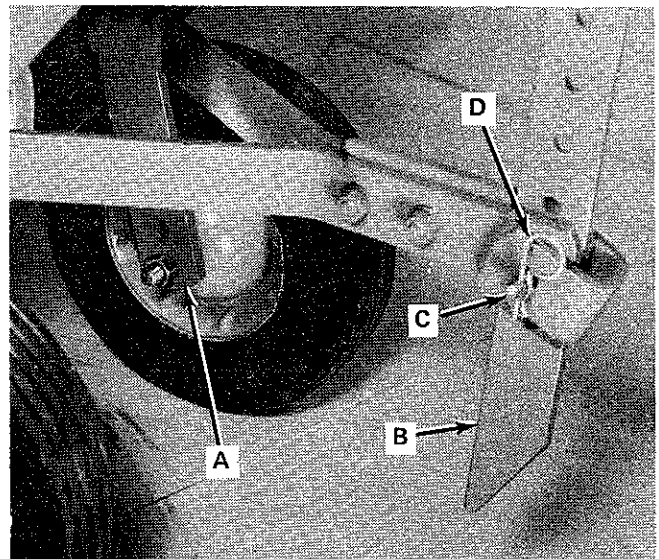


Figure 5. Depth Bar And Wheel Position

b. The most desirable tilling depth for an area will vary according to its intended use. If seeds are to be planted, consideration should be given to the depth required to kill competing plant life, mix fertilizer and prepare a good seedbed. In general, larger seeds should be planted deeper than smaller seeds. For example, corn is often planted 2 to 3 inches deep, whereas, the smaller grass seed may be planted within the top 1/2 inch of soil. A good seedbed for grass seed can often be made by tilling only 2 to 3 inches deep. When planting larger seeds such as corn, a tilling depth of 5 or more inches may be desirable.

6. Perform the following on area desired to be cut:

a. Clear the area to be tilled of all wire and other debris which may be caught in or damage the tiller tines.

b. Moisture content of the soil will affect the quality of seedbed preparation when using the Roticul. It is not advisable to till soil which is too moist or forms large clods or balls of mud when tilled. Heavy clay soils tend to stay wet longer, and form harder larger clods when tilled too wet, than lighter textured sandy or well developed dark soils, which are high in organic material. For this reason it is more important not to till clay soils too early in the spring or after a rain.

c. Before beginning to till any area, the operator should determine the best tilling pattern. The size, shape, terrain, and obstructions of the area to be tilled should be considered. Usually it is best to till the longest direction of the area to minimize turning.

d. The seedbed must be fine enough to insure that the planted seed makes good contact with the soil to germinate. Smaller seeds usually require a finer seedbed than larger ones. In many cases, more than one pass of the tiller will be required to prepare a seedbed of proper depth and texture.

STARTING

1. Position choke control (A, Figure 6) in choke position. Choke arm should be at right angles to exhaust tubing when in choke position and parallel to tubing when in open position.

2. Place speed control lever (A, Figure 7) 1/3 to 1/2 way between the SLOW and FAST position. The speed control lever is used to adjust the engine speed. Move it upward toward STOP, or down toward SLOW and FAST to adjust the engine to the desired speed.

3. Place the direction control lever (B, Figure 7) in the NEUTRAL position. The direction control lever is used to place tiller in REVERSE, NEUTRAL, or FORWARD motion. Because of a safety interlock switch under the lever, the tiller cannot be started in any other position other than NEUTRAL.

4. Be sure engine stop switch (B, Figure 6) is pulled up and away from spark plug. When stop switch is pushed down against the spark plug, the engine will stop.

5. Grasp the recoil starter handle (D, Figure 1) in right hand and pull sharply straight out to start engine. After engine starts, slowly move choke control arm (A, Figure 6) up or toward open position. If engine fails to start after four or five pulls, it may be flooded. Return choke to the open position and pull the recoil starter handle to clear excess fuel. Always return the handle by hand. Do not release the handle with rope extended.

6. If engine still fails to start, check fuel supply and spark plug connections. Be sure engine stop switch is pulled away from spark plug.

OPERATING

1. The Rotucul is scientifically designed to cultivate the soil with a minimum of physical effort on the part of the operator. When operating for the first time, proceed slowly and carefully to get the feel. Experience will determine the best handle height, pressure and depth bar setting for the operator.

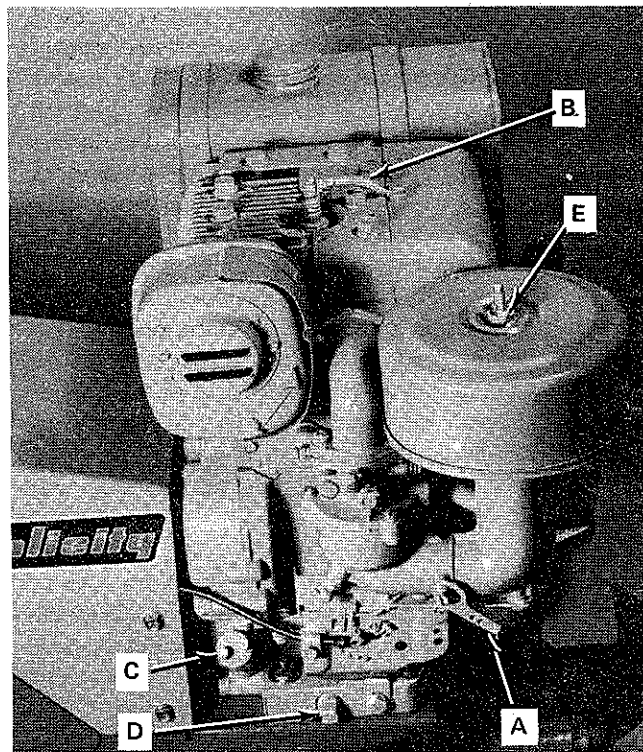


Figure 6. Right Side Of Engine

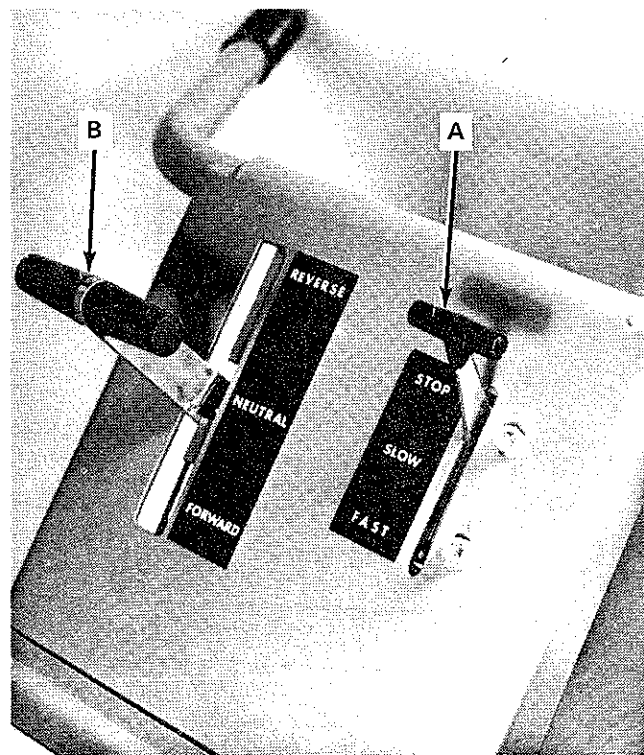


Figure 7. Control Levers

2. Do not till when the soil is very wet. This causes lumps which are difficult to work up. If the soil is extremely hard and dry, it may be desirable to cross till an area at shallow depth at first, then till in the direction of planting rows on the second pass at the final depth. Use the Roticul reverse for working in tight areas and to dislodge any rocks which may be caught between the tines and worm gear housing.

3. When operating the Roticul, do not attempt to hold it back to cause the tines to dig. Rather, adjust the depth bar so it will hold the tiller back for you. When the tines have dug deep enough in an area, raise up slightly on the Roticul handles and the tiller will move ahead. To stop the forward motion of the tiller and cause the tines to dig deeper, put slight down pressure on the handles and the depth bar will hold the tiller in place.

4. A furrow opener shovel is available from your Simplicity dealer for use in digging furrows for crops which are planted in rows, such as potatoes. See Accessories.

5. If belt slippage occurs, check the following:

a. Belts may be stretched or worn excessively.

b. Belts may be greasy or oily. If so, use Energene or a similar cleaning fluid on a rag to clean. An alternate method is to sprinkle a handful of Drizit or Kitty litter compound on the belt while it is running.

c. Pulleys may be misaligned.

d. Belt tension adjustment may be required. See Adjustments.

STOPPING

1. Move the engine speed control lever to the slow position (A, Figure 7).

2. If the Roticul has been operating under full load, allow the engine to idle for about a minute to reduce the engine temperature. Stopping a hot engine too suddenly can damage engine parts.

3. Push the engine stop switch (B, Figure 6) down against the spark plug to stop the engine.

ADJUSTMENTS

CLUTCH ROD

If the tiller tines will not drive when the direction control lever (B, Figure 7) is in FORWARD position or the tiller will not move when the control lever is in REVERSE, adjust the clutch rod as follows:

1. Tilt the tiller forward on the tines.
2. Place direction control lever (B, Figure 7) in the FORWARD position.
3. Loosen set collar setscrew (A, Figure 8) and position set collar (B) to obtain $5/8$ to $3/4$ of an inch between rod guide (C) and collar. Tighten set collar setscrew.

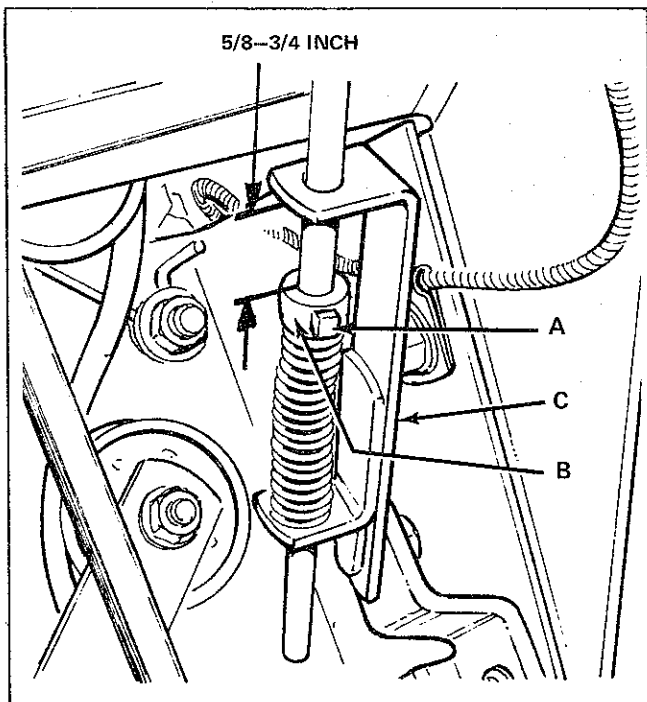


Figure 8. Clutch Rod Adjustment

BELT STOP

If the tines will not stop turning when the direction control lever (B, Figure 7) is in NEUTRAL position, inspect and adjust, as required, the six belt stops.

1. Be sure direction control lever is in NEUTRAL position.
2. Check $1/8$ inch clearances at all six belt stop locations (Figure 9).
3. If any of the six stops need adjustment, loosen nut (A) and adjust stops (B and/or C) to obtain $1/8$ -inch clearance between stop and belt.
4. Secure nut (A) on adjusted stop and check nuts on all other stops for tightness. Tighten each as required.

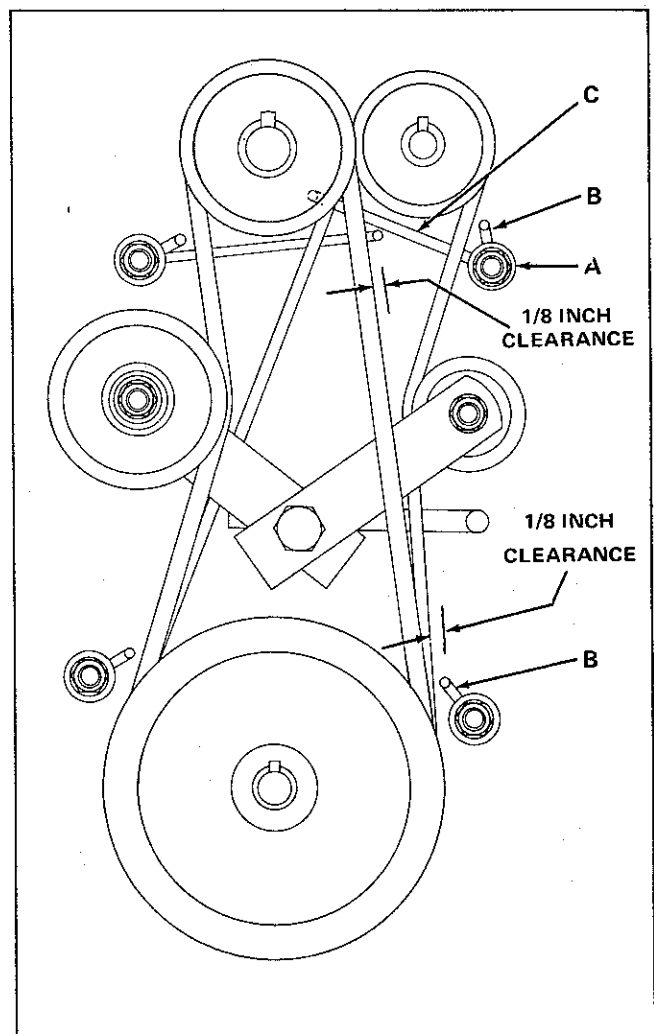


Figure 9. Belt Stop Adjustment

MAINTENANCE

Refer to your Briggs and Stratton manual for more complete instructions on servicing the engine.

ORDERING REPLACEMENT PARTS

Replacement parts required for performing maintenance services or repair work should be purchased from your Simplicity dealer. When ordering parts, be prepared to give him the identification number of your Roticul. If you have not already recorded this number on the inside front cover of this manual, we suggest that you do so now for convenient future reference.

AFTER EACH USE

Inspect the Roticul thoroughly looking for loose or missing bolts, pins or spring clips, oil leaks, worn parts, etc. Check the tine mounting bolts to be sure they are tight. Also check the tine shaft for wire, chain, or other foreign material which may interfere with proper tilling, or cause damage to the Roticul. Clean or repair the Roticul as needed, to insure it is ready to use the next time you need it.

EVERY FIVE HOURS OF OPERATION

1. WORM DRIVE LUBRICATION

a. Every five hours of operation, or oftener if any oil leaks are observed, the worm gear drive oil should be checked. Remove plug (A, Figure 10). The oil should be to the bottom threads of the plug hole when the Roticul is setting on a level surface. If oil is required, add special Mobil GG compound.

CAUTION

DO NOT USE ORDINARY TRANSMISSION OIL. ANY OTHER OIL EXCEPT SIMPLICITY WORM GEAR OIL MAY CAUSE GEAR FAILURE.

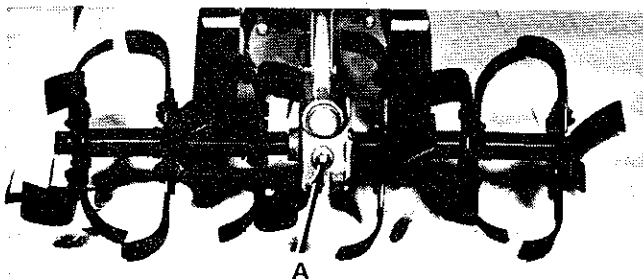


Figure 10. Worm Gear Oil Check Plug

b. To add oil, tip the Roticul back until the handles rest on the ground. Remove the filler plug and add worm gear oil through the plug hole. Fill until the oil is level with the plug hole when the tines are resting on the ground. Do not overfill. Replace plug (A) and tighten securely.

NOTE

DAMAGE TO THE WORM GEAR DRIVE, WHICH RESULTS FROM USE OF ANY LUBRICANT OTHER THAN SIMPLICITY BRAND SPECIAL WORM GEAR OIL, WILL AUTOMATICALLY INVALIDATE THE WARRANTY.

2. CHECK ENGINE CRANKCASE OIL

Each time fuel is added, or at least once every five hours of operation, the engine crankcase oil level should be checked. Remove all dirt from around filler plug (C, Figure 6), then remove the filler plug by turning it counter-clockwise. The crankcase oil level should be maintained full to the point of over flowing. If oil is required, add the same grade and weight of oil, which is already in the engine crankcase.

EVERY 25 HOURS OF OPERATION

1. CHANGE ENGINE OIL

a. After the first five hours of operation, and thereafter, every 25 hours of operation, the engine crankcase oil should be changed.

b. While the engine is warm, remove the drain plug (D, Figure 6) and drain the oil from the engine crankcase. Replace the drain plug. Remove oil filler cap (C) and refill the crankcase with new oil, which is classified for service SC or SD, or MS. Nothing should be added to the recommended oil.

SUMMER
(Above 40°F.)
Use SAE 30

If not available
Use SAE 10W-30
or
SAE 10W-40

WINTER
(Under 40°F.)
Use SAE 5W-20
or SAE 5W-30

If not available
Use SAE 10W or
SAE 10W-30
(BELOW 0°F.)
Use SAE 10W or
SAE 10W-30
Diluted 10% with Kerosene

2. CLEAN AND RE-OIL AIR CLEANER

Every 25 hours or more often under dusty operating conditions the engine air cleaner should be serviced.

- a. Remove wing nut (E, Figure 6).
- b. Remove the air cleaner carefully to prevent dirt from entering the carburetor.
- c. Take the air cleaner apart as shown in Figure 11.
- d. Wash the foam element in kerosene or liquid detergent and water to remove dirt.
- e. Wrap the foam element in cloth and squeeze dry.

f. Saturate the foam element in engine oil. Squeeze to remove excess oil.

g. Assemble the parts. Install the air cleaner on the engine and secure with the mounting wing nut (E, Figure 6).

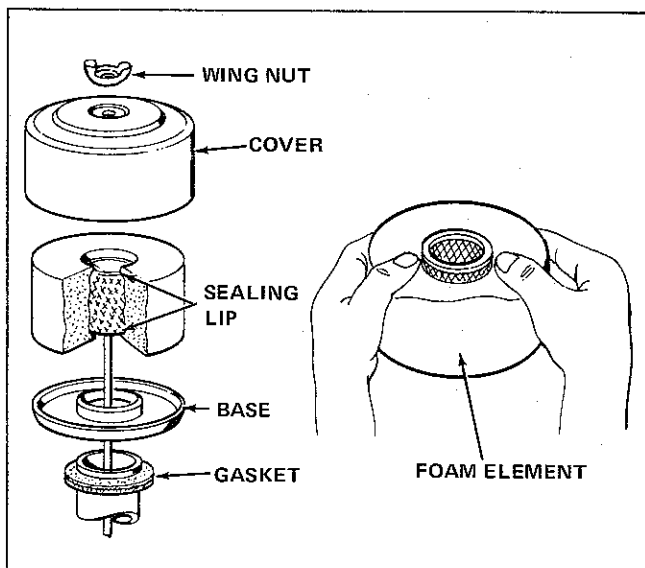


Figure 11. Air Cleaner Disassembly

3. CLEAN THE ENGINE COOLING SYSTEM

Grass or chaff may clog the cooling system after prolonged service. Continued operation of a clogged cooling system may cause severe overheating and possible engine damage. Every 25 hours the engine fins should be checked for any sign of a buildup of grass or chaff, which may decrease air flow through the engine fins. If any sign of a buildup of dirt, chaff or grass is noted, remove the blower housing and clean the engine fins.

EVERY 100 HOURS OF OPERATION CLEAN OR REPLACE SPARK PLUG

After every 100 hours of operation the spark plug should be removed, cleaned and gapped at 0.030 of an inch (Figure 12).

CAUTION

Blast cleaning of spark plugs in machines that use abrasive grit is not recommended. Spark plugs should be cleaned by scraping or wire brushing and washing with a commercial solvent or gasoline.

When the spark plug is worn out it should be replaced.

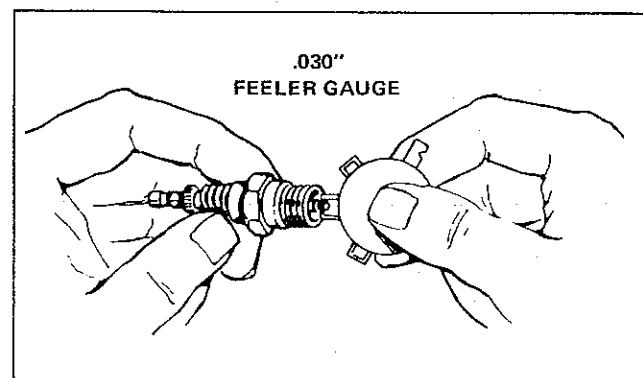


Figure 12. Setting Spark Plug Gap

EVERY 200 HOURS OF OPERATION CLEAN FUEL FILTER

After 200 hours of operation clean fuel filter screen and bowl.

CAUTION

DO NOT REMOVE THE FUEL LINES FROM THE FUEL FILTER WHEN ENGINE IS HOT.

1. Close fuel shut-off valve (A, Figure 13).
2. Loosen yoke (B) and remove the bowl (C), gasket, and screen.
3. Discard old gasket and replace it with new.
4. Clean screen and bowl. Assemble in reverse order of disassembly, using new gasket.
5. Secure yoke (B) and open fuel shut-off valve (A).

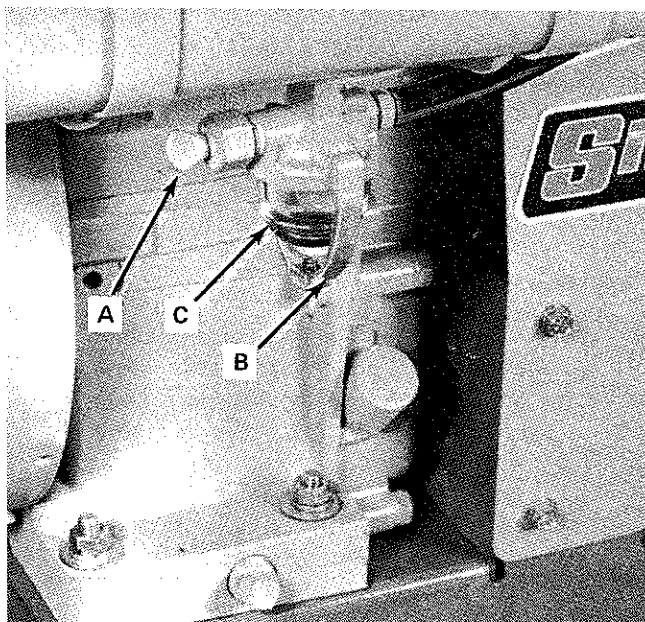


Figure 13. Fuel Filter Disassembly

STORAGE

1. Drain the fuel tank completely by running the engine until it stops. If desired, fuel can be stored in containers or in the tank by using Sta-Bil brand gasoline stabilizer, available at your Simplicity dealer. Add a can capful to the fuel in the tank or follow the directions on the can for containers of other capacity. This additive prevents formation of gum and varnish for up to one year, providing easier starting and a clean fuel system.

2. Drain and refill the crankcase while the engine is warm.

3. Remove the spark plug, pour one ounce of 10W-30 oil into the cylinder through the plug hole. Crank the engine a few times to distribute oil. Reinstall the spark plug.

4. Clean dirt and chaff from the cylinder head fins and engine housing.

ACCESSORIES

AVAILABLE FROM YOUR SIMPLICITY DEALER MFG. NO. 212 – TINE EXTENSION SET (Figure 14)

The set consists of a left hand and a right hand tine assembly with mounting pins and spring clips. Mount the long hub of each tine over the outside end of the standard tine assembly and install the pin and spring clip. Be sure that the sharpened edges of the tines on top face forward. This set increases the effective tilling width to 35 inches.

MFG. NO. 340 – 8 INCH FURROW OPENER

The furrow opener is intended for digging furrows for crops which must be planted in rows. To install, proceed as follows:

1. Remove the depth bar, turn it upside down and bolt it to the tool holder (A, Figure 15) with the carriage bolts, washers and nuts provided.

2. Remove the stop plate from between the frame supports and install the extension support (B) with the old hardware.

3. Position the depth bar in the extension support and reinstall the depth bar clamp using the pin and spring clip provided. Bolt the furrow opener to the tool holder as shown.

MFG. NO. 281 – WORM GEAR OIL

Case of 12 cans of special Simplicity Worm Gear Oil for Rotocults.

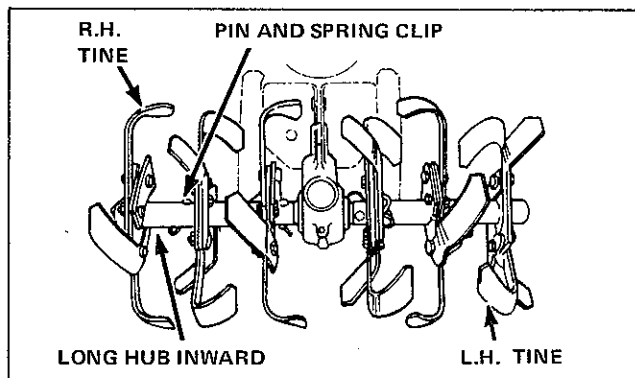


Figure 14. Tine Extensions Installed (Accessory)

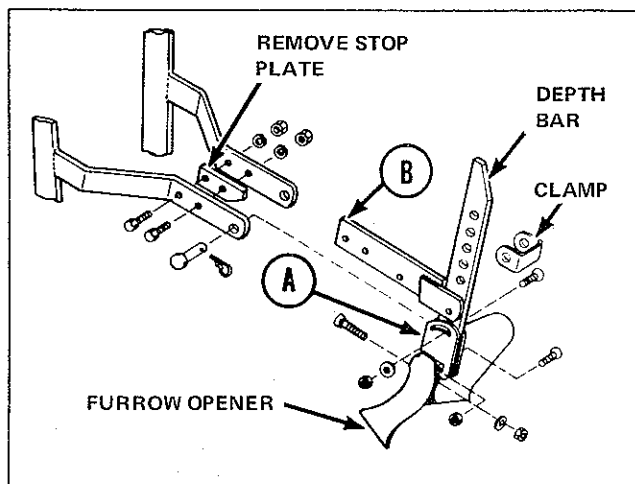


Figure 15. Furrow Opener (Accessory)

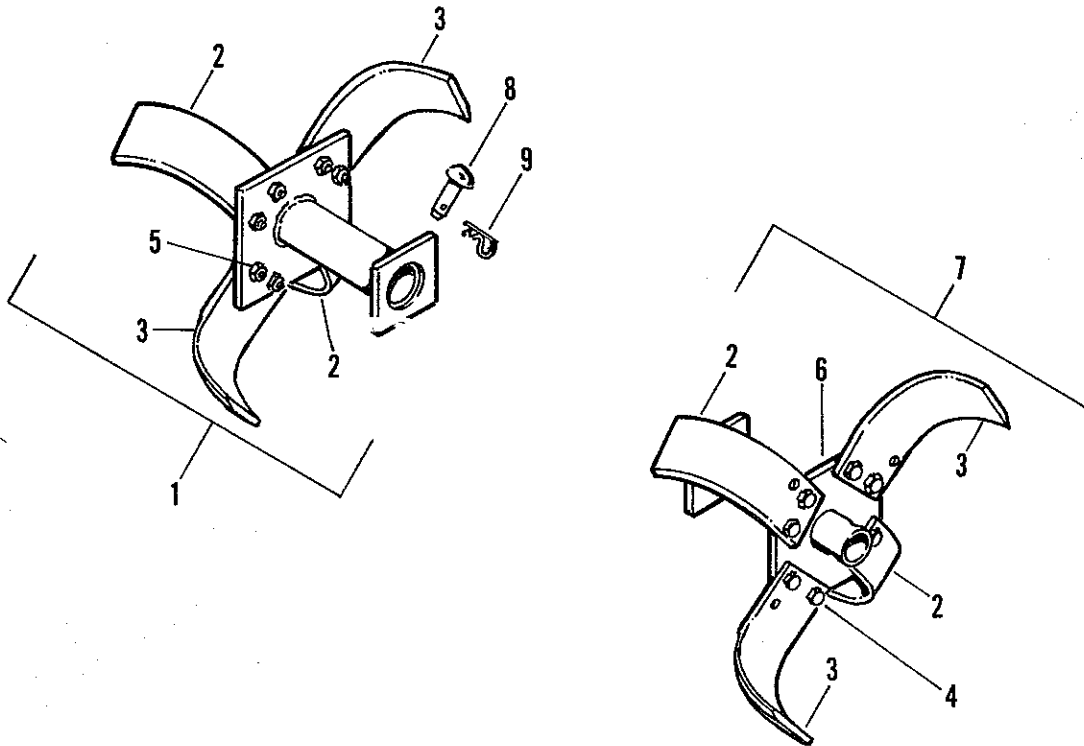
SPECIFICATIONS

ENGINE	
Make	Briggs and Stratton
Model No.	190492
Type	0768-01
Cycles	4
Cylinders	1
Bore	3 Inches
Stroke	2-3/4 Inches
Displacement	19.44 Cu. In.
Crankshaft Plane	Horizontal
Starter	Automatic Rewind With Dust-Sealed, Self-Lubricating Starter Clutch
Choke	Manual
Governor	Adjustable Mechanical
Ignition	Patented, High-Tension Magneto with Dust-Proof Breaker Enclosure
Lubrication	Splash System - 40% Slope Operation
Crankcase Capacity	2-3/4 Pints
Fuel Capacity	4 Quarts
Air Cleaner	Sealed Joint Housing, Reusable Oiled Foam Element
Muffler	Quiet, Low Back Pressure Type, Side Discharge
TRANSMISSION	
Type	Worm and Gear
Material	Worm - Carburized Steel; Gear - Bronze
Bearings	Needle and Tapered Anti-Friction
Seals	Double Lip - Dirt Excluding
Lubrication	Special Mobil GG Compound - 12 oz.
Housing	Cast Iron
Clutch	Hand Tensioning Belt Idler - Reverse And Forward

TINES	
Type	Slashing
Material	Forged, High-Carbon Steel
Tilling Width	23-1/2 In. Standard, 35 In. With Tine Extensions
Tilling Depth	0 to 8 Inches, Adjustable
Attachments	To Shaft - Bolted
Depth Bar	Adjustable - 10 Heights
Speed	116 RPM at Full Engine Speed
DEPTH BAR	
Attachment	Pin and Spring Clip
Adjustment	0 to 7 Inches Tilling Depth
CONTROLS	
Location	Forward Clutch - Right Handle, Bottom Reverse Clutch - Right Handle, Top Throttle - Left Handle Rewind Starter and Choke - On Engine
CHASSIS	
Frame	Heavy Duty, Electrically Welded with Cross Bracing
Tires	2.75 x 10 Heavy Duty
Wheel Bearings	Solid, Sintered Iron
OVERALL DIMENSIONS	
Length	53 Inches
Width	25 Inches (Without Tine Extensions)
Height	To Top of Handle 36 Inches
Weight	164 Lb. 179 Lbs. with Tine Extensions

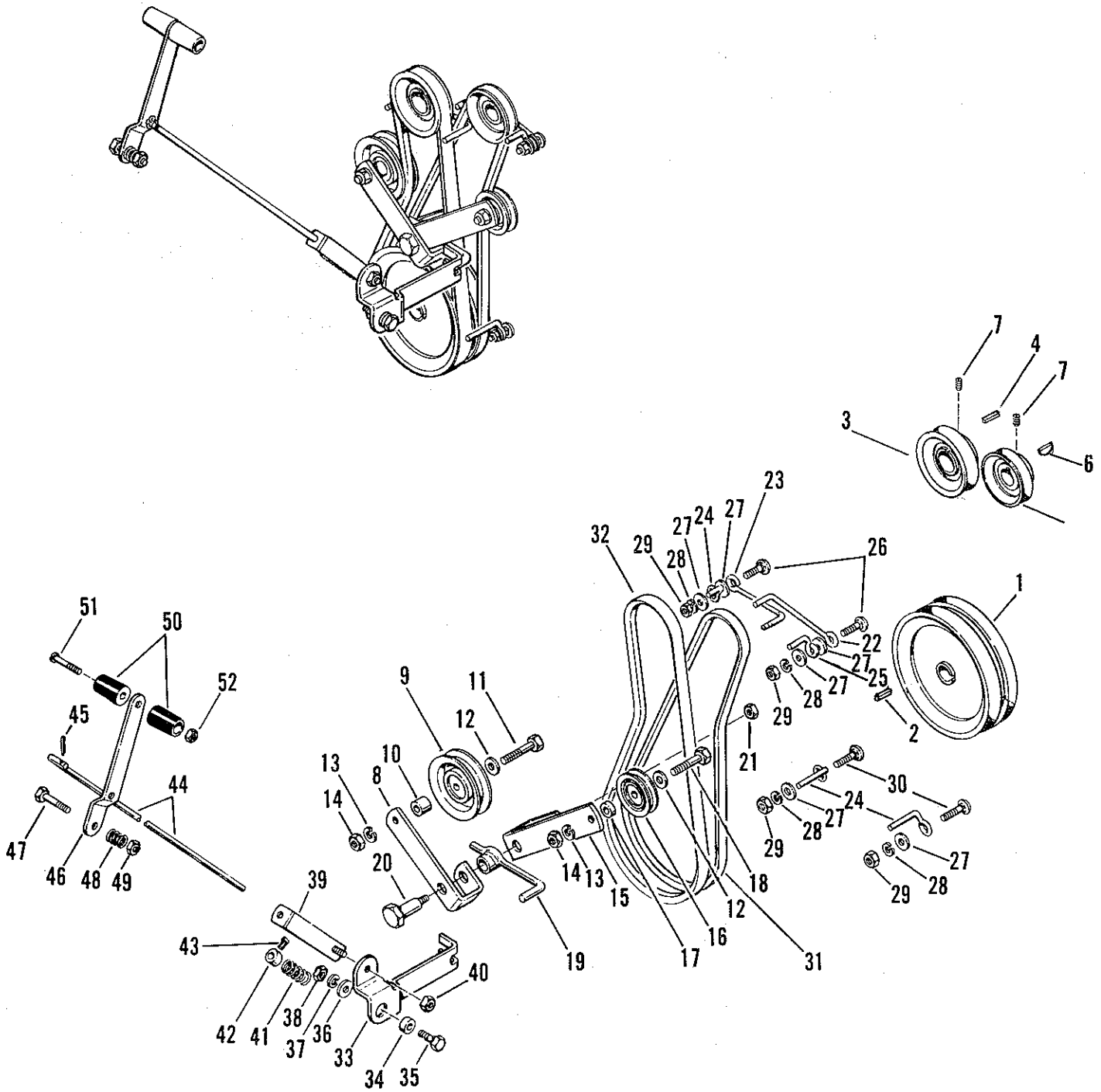
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

TINE EXTENSION KIT
MFG. NO. 945



Ref. No.	Part No.	Qty. Req.	Description
1	176468	1	L. H. Tine Blade Ext. Assy. (Consists of Ref. No. 2 thru 6)
2	172511	4	Tine R. H.
3	172512	4	Tine L. H.
4	715038	16	Hex Capscrew, 3/8"-16 x 1" lg.
5	718059	16	Hex Nut, Lock, 3/8"-16
6	176227	2	Tine Plate Extension Assy.
7	176469	1	R. H. Tine Blade Ext. Assy. (Consist of Ref. No. 2 thru 6)
8	118053	2	Pin
9	8161045	2	Spring Clip

CLUTCH & BELTS

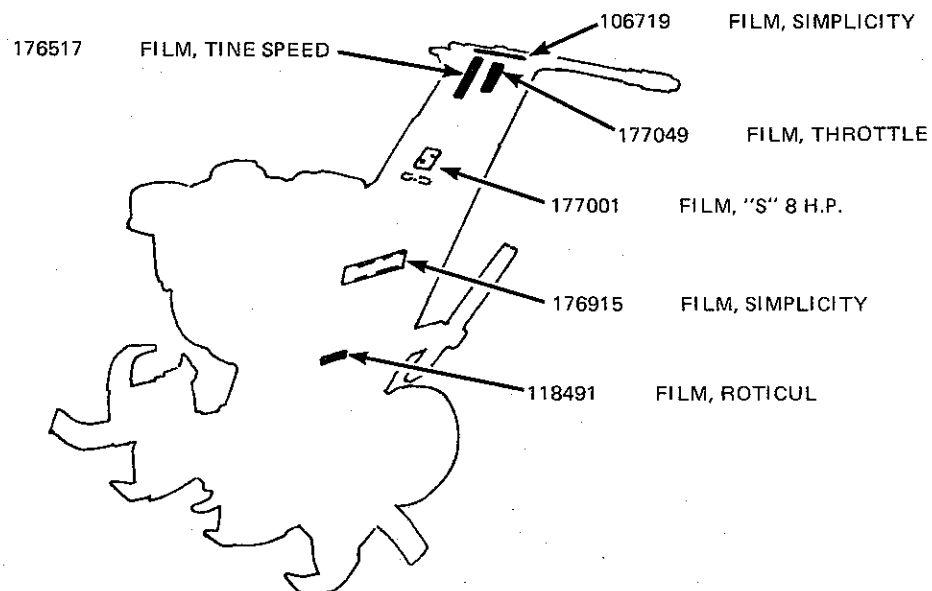


CLUTCH & BELTS

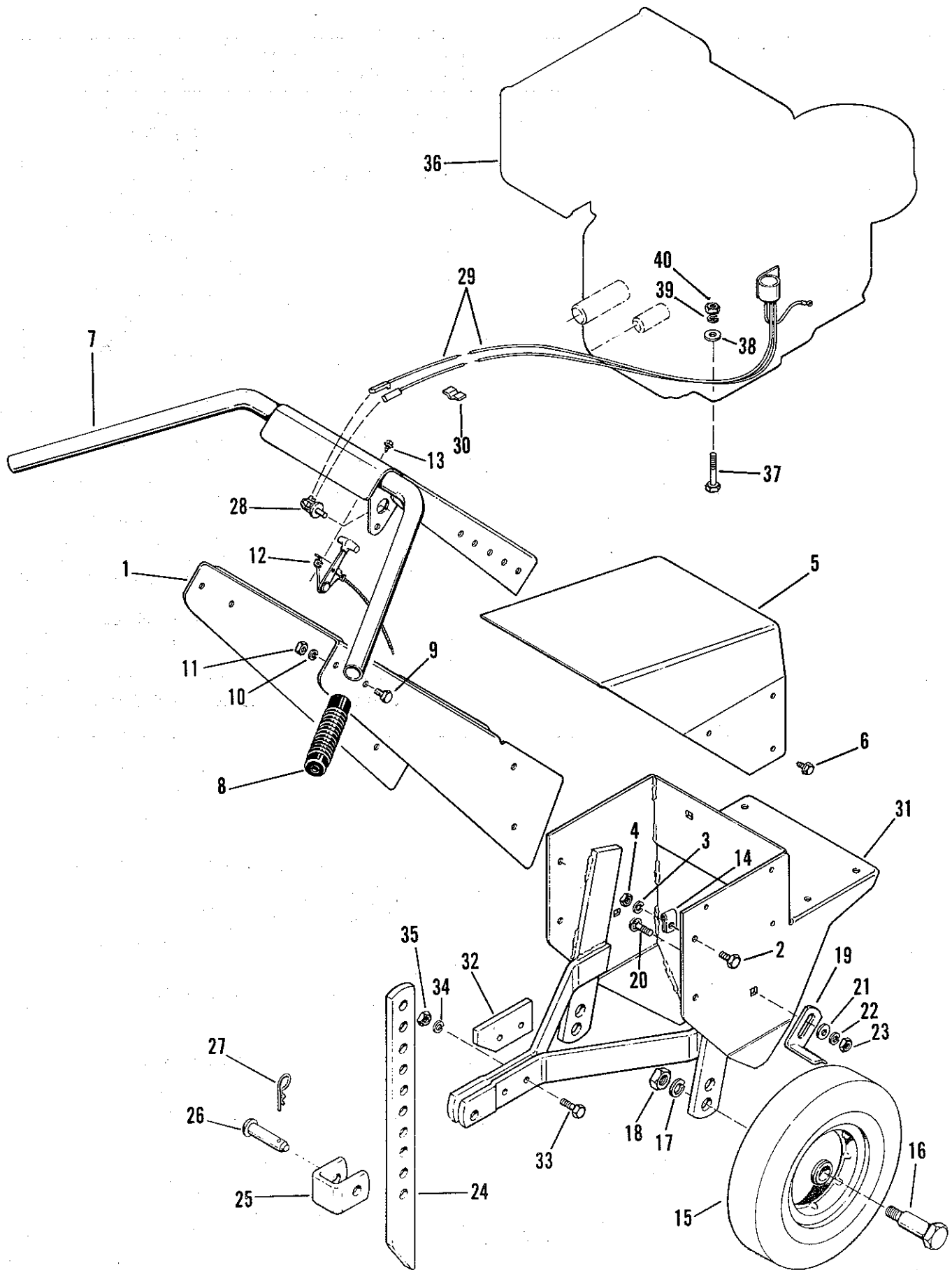
Ref. No.	Part No.	Qty. Req.	Description
1	175964	1	Driven Pulley
2	118439	1	Key
3	176328	1	Pulley
4	172668	1	Key
5	118458	1	Pulley
6	725002	1	Key
7	713503	2	Set Screw, 5/16"-18 x 5/16" lg.
8	175962	1	Idle Lever
9	154534	1	Idle Pulley
10	118335	1	Spacer
11	705010	1	Hex Capscrew,
12	719002	2	Plain Washer, 5/16"
13	720002	2	Lock Washer
14	717003	2	Hex Nut, Full, 3/8"-16
15	175962	1	Idle Lever
16	118414	1	Idle Pulley
17	174870	1	Spacer
18	705009	1	Hex Capscrew, 3/8"-16 x 1-1/2" lg.
19	176192	1	Pivot Assembly
20	171337	1	Pivot Bolt
21	717511	1	Hex Nut, Full, Lock, 5/16"-18
22	121073	1	Belt Stop
23	106707	1	Belt Stop
24	106346	3	Belt Stop
25	106347	1	Belt Stop
26	703002	2	Carriage Bolt, 3/8"-16 x 1-1/4" lg.
27	719002	6	Plain Washer, 5/16"

Ref. No.	Part No.	Qty. Req.	Description
28	720002	4	Lock Washer, 3/8"
29	717003	4	Hex Nut, Full, 3/8"-16
30	703003	2	Carriage Bolt, 3/8"-16 x 1" lg.
31	176393	1	V-Belt (Reverse)
32	176917	1	V-Belt (Forward)
33	176869	1	Bell Crank
34	153081	1	Spacer
35	715096	1	Hex Capscrew, 3/8"-16 x 1" lg.
36	719002	1	Plain Washer, 5/16"
37	720002	1	Lock Washer, 3/8"
38	717003	1	Hex Nut, Full, 3/8"-16
39	163100	1	Rod Guide Assembly
40	717511	1	Hex Nut, Full, Lock, 5/16"-18
41	8191045	1	Spring
42	8191022	1	Set Collar
43	713001	1	Set Screw, 1/4"-20 x 3/8" lg.
44	176472	1	Rod
45	722001	1	Cotter Pin, 3/32" x 3/4" lg.
46	176198	1	Lever
47	705018	1	Hex Capscrew, 5/16" x 1-1/2" lg.
48	173575	1	Spring
49	717511	1	Hex Nut, Full, Lock, 5/16"-18
50	176892	2	Handle
51	712501	1	Mach. Screw, 1/4"-20 x 1-1/2" lg.
52	717513	1	Hex Nut, Full, Lock, 1/4"-20

DECALS



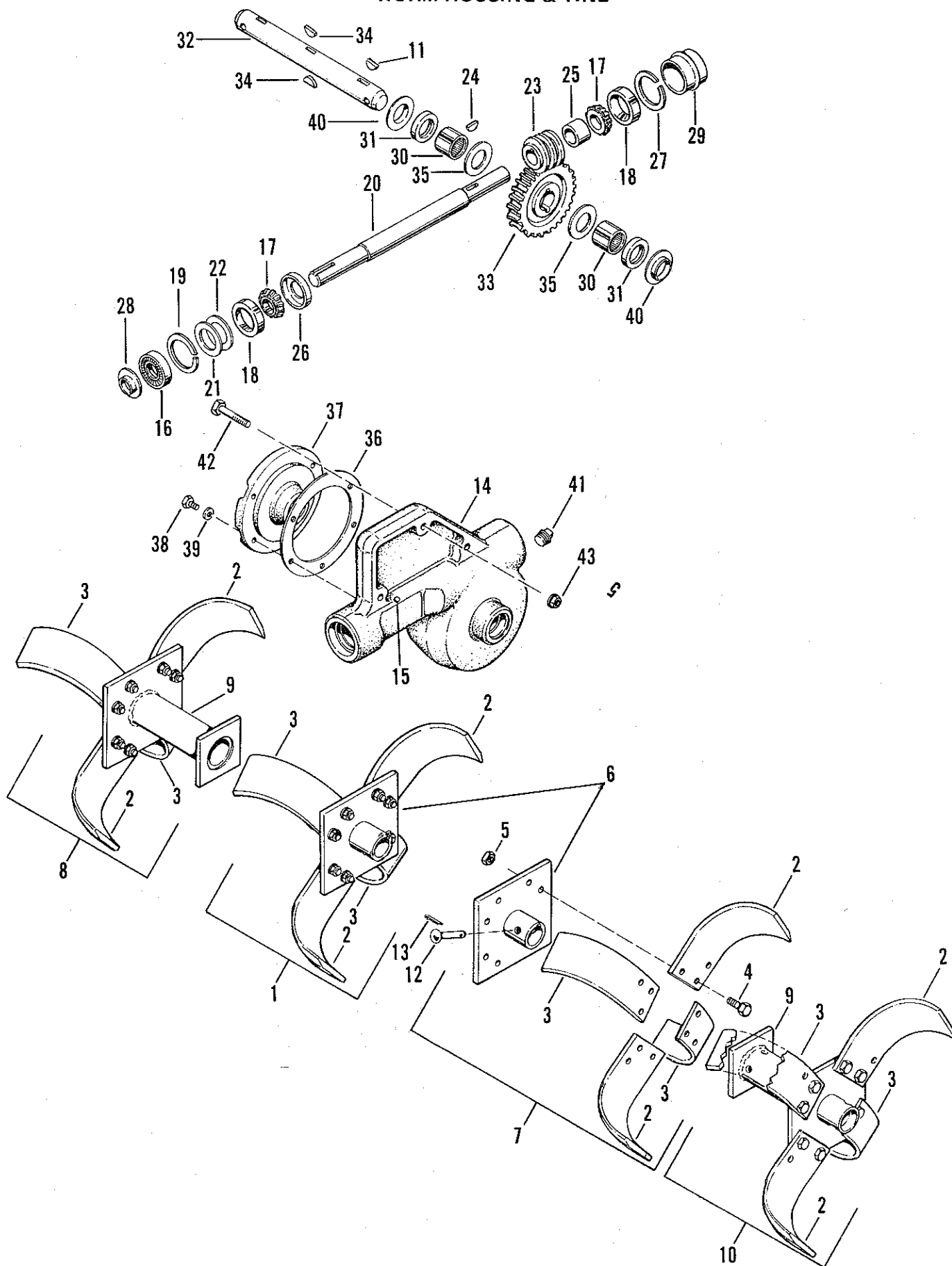
FRAME & HANDLES



FRAME & HANDLES

Ref. No.	Part No.	Qty. Req.	Description
1	176862	1	Handle Bar Support
2	715030	3	Hex Capscrew, 3/8"-16 x 3/4" lg.
3	720002	3	Lock Washer, 3/8"
4	717003	3	Hex Nut, Full, 3/8"-16
5	716859	1	Cover
6	715067	6	Taptite Screw, 1/4"-20 x 3/8" lg.
7	176853	1	Handle Bar Assembly
8	106558	2	Grip
9	715071	4	Hex Capscrew, 5/16"-18 x 5/8" lg.
10	720002	4	Lock Washer, 5/16"
11	717001	4	Hex Nut, Full, 5/16"-18
12	176473	1	Throttle Control Assembly
13	714016	2	Self Tapping Screw, 1/4"-20 x 1/2" lg.
14	176523	1	Clip
15	176471	2	Wheel & Tire Assembly
16	176196	2	Shoulder Bolt
17	720004	2	Lock Washer, 1/2"
18	717006	2	Hex Nut, Full, 1/2"-13
19	176364	2	Scraper
20	703003	2	Carriage Bolt, 3/8"-16x1" lg.
21	719002	2	Plain Washer, 5/16"
22	720002	2	Lock Washer, 3/8"
23	717003	2	Hex Nut, 3/8"-16
24	118081	1	Depth Bar
25	118371	1	Clamp
26	105249	1	Pin
27	8161045	1	Spring Clip
28	174695	1	Switch
29	177194	1	Ign. Interlock
30	176912	2	Wire Clip
31	176224	1	Frame Assembly
32	118207	1	Stop Plate
33	705009	2	Hex Capscrew, 3/8"-16 x 1" lg.
34	720002	2	Lock Washer, 3/8"
35	717003	2	Hex Nut, Full, 3/8"-16
36		1	8 H.P. Engine
37	705023	4	Hex Capscrew, 5/16"-18 x 1-3/4" lg.
38	719002	4	Plain Washer, 5/16"
39	720001	4	Lock Washer, 5/16"
40	717001	4	Hex Nut, Full, 5/16"-18

WORM HOUSING & TINE



WORM HOUSING & TINE

Ref. No.	Part No.	Qty. Req.	Description
1	176466	1	L. H. Inter Tine Blade Assy. (Consists of Ref. No. 2 thru 6)
2	172511	8	R. H. Tine
3	173512	8	L. H. Tine
4	715038	32	Hex Capscrew, 3/8"-16 x 1" lg.
5	718059	32	Hex Nut, Full, Lock, 3/8"-16
6	176225	2	Inner Tine Plate Assembly
7	176467	1	R. H. Inner Tine Blade Assy. (Consist of Ref. No. 2 thru 6)
8	176468	1	L. H. Tine Blade Extension Assy. (Consist of Ref. No. 2 thru 6)
9	176227	2	Tine Plate Extension Assembly
10	176469	1	R. H. Tine Blade Extension Assy. (Consist of Ref. No. 2 thru 6)
11	725005	2	Key
12	118053	2	Pin
13	722009	2	Cotter Pin
14	175871	1	Worm Drive Housing
15	118462	1	Vent Plug
16	118393	1	Oil Seal
17	154486	2	Bearing Cone
18	154393	2	Bearing Cup
19	118396	1	Snap Ring
20	170888	1	Worm Shaft
21	170885	1	Backing Ring
22	171762	1	Backing Ring
23	176013	1	R. H. Worm
24	725502	1	Key
25	118398	1	Spacer
26	118399	1	Cup
27	118396	1	Snap Ring
28	118400	1	Shield
29	154487	1	Hub Cap
30	118020	2	Needle Bearing
31	118118	2	Oil Seal
32	176724	1	Worm Gear Shaft
33	176011	1	R. H. Worm Gear
34	725005	2	Key
35	118315	2	Thrust Washer
36	175872	1	Gasket
37	175873	1	Cover
38	715018	5	Hex Capscrew, 1/4"-20 x 5/8" lg.
39	720003	5	Lock Washer, 1/4"
40	118430	2	Shield
41	726003	1	Pipe Plug
42	715045	3	Hex Capscrew, 3/8"-24 x 1-3/4" lg.
43	718064	3	Flange Nut

