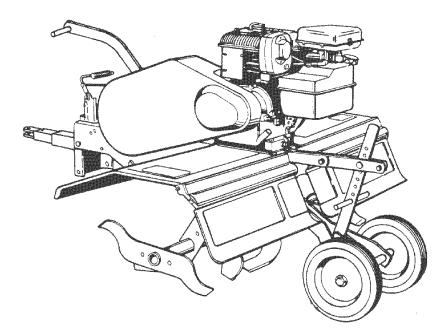
Owner's Manual



5.5 HORSEPOWER 36" TOW-BEHIND **UNIVERSAL TILLER** Model No. 486.252443



CAUTION:

Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

IMPORTANT - READ THIS FIRST!!!

For Missing Parts or Assembly Questions Please Call 866-576-8388 Mon.-Fri. 7 am - 5 pm CST. FAX 217-728-2032 or e-mail <u>info@agri-fab.com</u> Missing parts will be sent UPS in 24 hours directly to your home.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A. www.sears.com/craftsman

- Safety
- Assembly
- Operation
- Maintenance
- Parts

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LIMITED WARRANTY ON CRAFTSMAN POWERED TRACTOR ATTACHMENTS

For one (1) year from the date of purchase, if this Craftsman Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace free of charge any parts found to be defective in material or workmanship. Warranty service is available free of charge by returning your Craftsman equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This Warranty applies only while this product is in the United States.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as spark plugs, air cleaners, belts, and oil filters.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, including but not limited to, damage caused by impacting objects that bend the frame or crankshaft, or over-speeding the engine.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, or failure to maintain the equipment according to the instructions contained in the owner's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used **within 30 days** of its purchase date.
- Equipment used for commercial or rental purposes.

LIMITED WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with the equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. Warranty service is available free of charge by returning your Craftsman equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This Warranty applies only while this product is in the United States.

TO LOCATE THE NEAREST SEARS SERVICE CENTER OR TO SCHEDULE SERVICE, SIMPLY CONTACT SEARS AT 1-800-4-MY-HOME.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Record serial number and date of purchase in space provided below.

reference.

PRODUCT SPECIFICATIONS

HORSEPOWER:	5.5 H.P.
DISPLACEMENT	12.48 CU. IN.
GASOLINE TYPE	REGULAR UNLEADED
OIL TYPE	SAE 30 (ABOVE 32° F)
(API-SF/SG)	SAE 5W-30 (BELOW 32° F)
OIL CAPACITY:	20 OZ.
SPARK PLUG	(GAP .030")
TILLING GROUND SPEED	Approx. 2 MPH
TILLING WIDTH	36 INCHES
TILLING TINE SPEED	200 RPM

SAFETY



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WARNING: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

IMPORTANT

Warnings, Cautions, and Notes are a means of attracting attention to important or critical information in this manual.



Look for this symbol to point out important safety precautions. It means-**Attention! Become Alert!** Your safety is involved.

TRAINING

- Read opening and Service instructions carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- Never allow children to operate the machine. Do not allow adults to operate the machine without proper instruction.
- Keep the area of operation clear of all persons, particularly small children and pets.

PREPARATION

- Check the fuel and lubrication 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.
- Inspect the area to be tilled. Remove glass, wire, metal objects, large sticks, and stones. Avoid underground pipes and wiring.
- Have a complete working knowledge of your tractor and know how to handle your tractor with a tiller or other attachment attached.

OPERATION

- Give complete and undivided attention to the job at hand. Operate the tiller in daylight or good artificial light.
- Personal injury may result from contact with the augers or debris thrown by this machine. Therefore, always stay a safe distance away from the augers.
- Stop the tiller engine when leaving your tiller unattended.
- Check before each use for loose fasteners or parts.
- Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow engine to cool before storing in an enclosure.

- Stop engine and disconnect spark plug lead wire before cleaning augers, removing obstacles, or making adjustments, except for those which must be done with the engine running.
- Never place hands or feet under or into rotating parts or concealed areas. Keep hands and feet clearly away from auger elements, belts, pulleys, etc. while engine is running.
- Wear substantial shoes and eye protection while using tiller.
- Never attempt to make a maintenance adjustment while engine is running, except on the carburetor.
- Do not run the engine indoors; carbon monoxide fumes are dangerous to inhale.
- Never operate machine without proper guards, plates, or other safety protective devices in place.
- Disengage the Tine Clutch Lever, stop tiller and tractor engines before getting off the tractor.
- Disengage the Tine Clutch Lever and stop the tiller engine during transportation to and from the work area.

MAINTENANCE AND STORAGE

- Follow maintenance instructions as outlined in this manual and your Engine Owner's Manual supplied with the unit.
- Disconnect spark plug wire before making maintenance adjustment or repair.
- Store gasoline in an approved metal container in a cool, dry place.
- Safety and performance levels can be assured only by the use of specified replacement parts.



WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered or grass-covered land

unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the state of California, the above law is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on Federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center.

ASSEMBLY

TO REMOVE UNIT FROM CARTON

- Cut from top to bottom all four corners of the carton and lay panels flat. (See Fig. 1)
- Remove the lag screw that holds the floating hitch to the packing skid.
- Disassemble and discard carton's wood top and side supports.
- Remove four hex bolt, hex nuts and flat washer from the hold down brackets at the rear of the carton.
- Remove and **save** the two Flat Washers and Cotter Pins from the rear axle. Reuse when attaching gauge wheels.
- Discard all other packing hardware and hold down brackets.

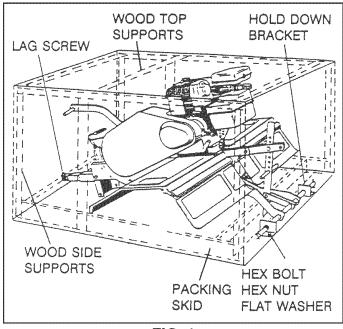


FIG. 1

- Right hand (RH) and left hand (LH) are determined from the drivers position while seated on the tractor.
- We recommend that you remove the Mower Deck before using the Tiller. Refer to your Tractor Owner's Manual.

TO INSTALL THE TILLER GAUGE WHEELS

• Assemble Gauge Wheels onto the Rear Axle with the extended end of Hub facing inward. Secure with the Flat Washers and Cotter Pins which you removed from the axle during unpacking. (See fig. 2.)

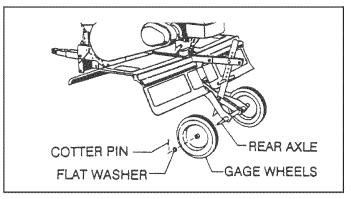
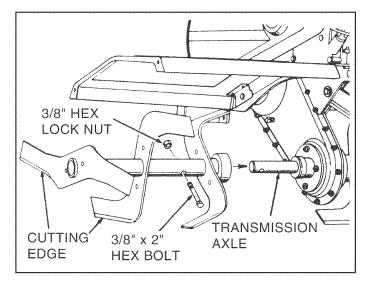


FIG. 2

TO INSTALL THE TILLER TINE ASSEMBLIES

- Attach the floating hitch to the tractor's draw bar. (Refer to Operating Instructions on page 7.)
- Remove the preassembled 3/8" x 2" hex bolt and 3/8" hex lock nut from the L.H. Tine Assembly. Slide the tine assembly onto the Transmission Axle on the left side of the tiller and secure with the hex bolt and hex lock nut. (See fig. 3.) Repeat for the R.H. side.





TO INSTALL (WHEEL) WEIGHTS TO TILLER

- **NOTE:** Weights are not furnished with the Tiller. 30 lb. tractor wheel weights may be purchased to mount to the Tiller if extra weight is required. (Refer to the Operation section of this manual.)
- Remove two Carriage Bolts and Nuts from each Tine Shield, located approximately 3-1/2" from the front edge. See fig. 4.
- Place (Wheel) Weights on Tine Shield and secure with long Bolts and Nuts furnished with the Weights. See fig. 4.

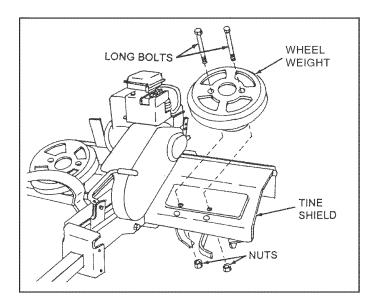


FIG. 4

OPERATION

KNOW YOUR TILLER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TILLER.

Compare the illustrations with your tiller to familiarize yourself with the location of various controls and adjustments. Save the manual for future reference.

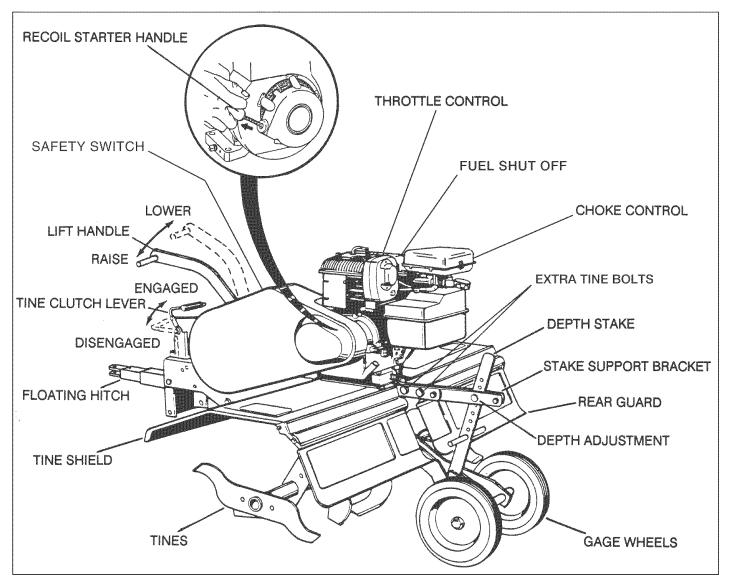


FIG. 5

SAFETY SWITCH - prevents engine from starting while tine clutch lever is engaged

LIFT HANDLE - selects tilling or transport position by moving gage wheels

TINE CLUTCH LEVER - starts and stops tine rotation

FLOATING HITCH - telescoping hitch limits shock loads to tractor

RECOIL START HANDLE - used to start the engine THROTTLE CONTROL - controls engine speed FUEL SHUT OFF - shuts of fuel to engine CHOKE CONTROL - used when starting a cold engine DEPTH STAKE - controls tilling/cultivating depth



The operation of any tiller can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your tiller and while tilling. We recommend a wide vision safety mask for over the spectacles or standard safety glasses.

HOW TO USE YOUR TILLER

BEFORE STARTING YOUR TILLER

FILL THE ENGINE WITH OIL! Your tiller engine is shipped without oil or gasoline. Add oil and gas as instructed in the separate engine manual.



WARNING: Never fill fuel tank indoors, or with the engine running, or while the engine is hot. Do not smoke while filling tank.

STOPPING YOUR TILLER

TINES

- Raise tiller to transport position.
- Pull forward on tine clutch lever.

ENGINE (Refer to separate engine manual.)

- Move throttle control to "STOP" position.
- Turn shut off to "OFF" position.
- Never use choke to stop engine.

STARTING YOUR TILLER

(Refer to separate engine manual.)



CAUTION: The muffler and adjacent areas are hot!

- Check oil and gas in Tiller engine.
- Attach spark plug wire to spark plug.
- Pull forward on tine clutch lever to disengage tines. A safety switch prevents engine from starting while tines are engaged.
- Turn shut off to "ON" position.
- Move choke lever on engine to CHOKE position. (A warm engine may not require choking.)
- Move throttle control lever on engine to FAST position.
- Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point). Let the rope rewind slowly.
- Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle. Let rope rewind slowly. Do not let starter handle snap back against starter.

- Repeat instructions in two preceding paragraphs until engine fires. When engine starts, move choke control gradually to RUN position.
- Allow engine to warm up for a few minutes before engaging tines.

ATTACHING TILLER TO TRACTOR (See Fig. 6)

- Rear wheel weights and tire chains can be used on tractor if additional traction is required for tilling.
- Place Tiller on ground level and back up tractor to it.
- Slide Floating Hitch of Tiller onto the tractor drawbar so that the hitch pin holes line up.
- Insert hitch pin until it extends through bottom of Floating Hitch. Insert hair cotter pin into hitch pin.

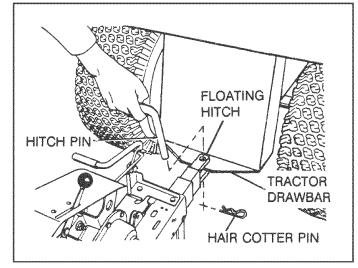


FIG.6

BREAKING IN YOUR TILLER

Break-in your belts, pulleys and the control before you actually begin tilling.

- Start engine with tiller attached to tractor in transport position. Engage Tine Clutch Lever to start tine rotation. Allow tines to rotate for five minutes.
- Check tine operation and adjust if necessary. See "TINE OPERATION CHECK" in the Service and Adjustments section of this manual.

TRANSPORTING YOUR TILLER

AROUND THE YARD

• Pull forward on lift handle until it locks in the up, transport position.

AROUND TOWN

- Disconnect spark plug wire.
- Drain fuel tank.
- Transport in upright position to prevent oil leakage.

TO ADJUST DEPTH STAKE

- Depth stake has five position holes to select tilling depth from 1 to 5 inches.
- The top stake hole selects the shallowest tilling depth and the bottom stake hole selects the deepest position.
- To change depth remove the hair cotter pin from the clevis pin which is connecting the depth stake to the stake support bracket.
- Grasp the top of the depth stake, remove the clevis pin and reposition the depth stake. Insert clevis pin and hair cotter pin.

IMPORTANT: THE DEPTH STAKE SHOULD NEVER BE REMOVED FROM THE TILLER. IT IS DESIGNED TO PROTECT THE TRACTOR TRANSAXLE FROM THRUSTING ACTION OF THE TILLER.

TILLING

- The most efficient tillage is obtained when Tiller Engine is operated at full throttle. The sound of the Tiller Engine will tell you. When Tiller Engine is lightly loaded, raise Gauge Wheels to increase tilling depth. If Engine seems to be overloaded or stalls out, lower Gauge Wheels for shallower tilling.
- Operate Tiller Engine at full throttle and operate tractor in slowest forward speed, with tractor engine at idle speed or just above idle. You will soon learn the proper combination of tilling depth and speed for good tillage.
- Soil conditions will determine how deep Tiller can penetrate on the first pass. In extremely hard ground, several passes may be necessary to till to a depth of 6 inches. While in soft ground, Tiller may penetrate to a depth of 6 inches in the first pass.

TILLING HINTS

IMPORTANT OPERATING HINTS

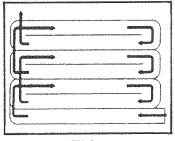
NOTE: The following is a general guideline of tilling, but may vary depending upon soil conditions.

 In <u>virgin soil</u>, the tiller should be started in the shallowest depth position and lowered one position at a time after each pass in each position.

- If the soil is extremely hard and dry, it may be desirable to cross till an area at shallow depth first, then till in the direction of planting rows on the second pass at the final depth.
- Where possible, we recommend tilling in a pattern similar to that shown in Fig. 7. Make the first pass, then skip a space equal to the width of the tiller, and make the return pass. Then till the skipped area. Tilling in this pattern will enable you to maintain better control. If the passes were made side-by-side, the tractor and tiller would tend to pull toward the tilled (soft) side.
- Check ground moisture: If you can make a ball in your hand out of ground to be tilled, do not till soil if too wet. This causes lumps which are difficult to work up.
- When operating for the first time, proceed slowly and carefully until you become familiar with the proper method of operating the tiller.
- In soil that was tilled the year before, select the tilling depth at which the tiller engine runs comfortably and does not stall or pull down. Lower depth for additional passes if greater depth is desired.
- Whenever working multiple passes, go perpendicular to the previous tilling direction.
- In cases where the soil is too hard to get proper penetration or if tilling action causes Tiller to hop or bounce, it will be necessary to purchase a set of Tiller (Wheel) Weights.

CULTIVATING

- Your tiller may be used for cultivating which requires a minimum of two (2) inches of soil penetration.
- Set depth stake so the Tiller will penetrate soil to a depth of 2 to 3 inches. The Tiller Engine should be run at full throttle except when cultivating small plants. A slower engine is necessary to prevent burying the plants. (See fig. 8).



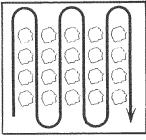


FIG. 7



GENERAL RECOMMENDATIONS

The warranty on this Tiller does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain unit as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your unit.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 Once a year you should replace the spark plug, clean or replace air filter, and check tines and belts for wear.
A new spark plug and clean air filter assure proper airfuel mixture and help your engine run better and last longer.

BEFORE EACH USE

- Check engine oil level.
- Check tine operation.
- Check for loose fasteners.

LUBRICATION

Keep unit well lubricated (See "LUBRICATION CHART").

Refer to the engine manual for instructions on engine maintenance.

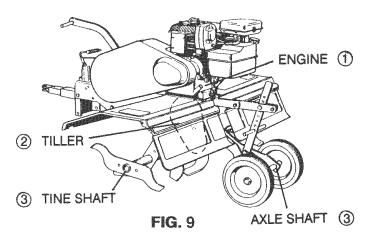
MAINTENANCE SCHEDULE Image: Second secon												
Check Engine Oil Level	Х											
Change Engine Oil		Х		Х*				Ì	 			
Service air cleaner precleaner			X**					Ì				
Service air cleaner cartridge					X**							
Replace spark plug					Х							
Clean cooling system					X**							
Check valve clearance						X						
Check for loose fasteners	Х											
Lubricate Tiller			Х							I		
Lubricate Tiller Transmission			Х									

*Change oil every 25 hours when operating the engine under heavy load or in high temperatures. *Clean more often under dusty conditions or when airborne debris is present. Replace air cleaner parts, if very dirty.

(1) REFER TO SEPARATE ENGINE OPERATING & MAINTENANCE INSTRUCTIONS

- ② REFER TO CUSTOMER RESPONSIBILITIES "TILLER LUBRICATION SECTION."
- ③ GENERAL PURPOSE GREASE

IMPORTANT: DO NOT OIL OR GREASE PIVOT POINTS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT CAN CAUSE WEAR ON PIVOT POINTS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY POWDERED GRAPHITE TYPE LUBRICANTS.



LUBRICATION CHART

TILLER LUBRICATION

Check transmission oil level after first 5 hours of operation. Remove Oil Fill Plug (Fig. 10). Oil Level must be even with the Plug Hole (with Tiller level). If necessary, add Oil. Use SAE30 Non-Detergent Motor Oil. Replace Oil Fill Plug.

Check transmission oil level after each 10 hours of operation.

NOTE: It is not necessay to change the Oil in this Tiller Transmission. If for any reason it must be changed, Oil capacity is 22 oz.

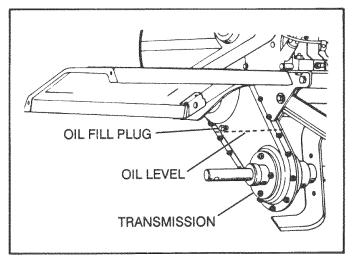


FIG. 10

ENGINE MAINTENANCE



WARNING: Always stop engine and disconnect spark plug wire before cleaning, lubricating or before performing any repairs or maintenance.

- Check oil level before each use and every 8 hours.
- Maintain engine oil as instructed in the separate engine manual.
- Service **air cleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual.
- **Spark plug** replacement is recommended every 100 hours or yearly. Check the engine manual for correct plug type and gap specifications.

CLEANING

- Clean engine as instructed in the engine manual.
- Clean wheels, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your unit unless the muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

MUFFLER

Do not operate tiller without muffler. Do not tamper with exhaust system. Damaged mufflers or spark arresters could create a fire hazard. Inspect periodically and replace if necessary. If your engine is equipped with a spark arrester screen assembly, remove every 50 hours for cleaning and inspection. Replace if damaged.



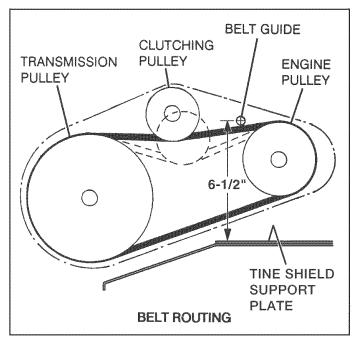
WARNING: Shut off (disengage) the Tine Clutch Lever, the Tiller Engine and the Tractor Engine before making any repairs.

TO REPLACE V-BELT

Replace V-belt if it has been damaged considerably from slipping under heavy loads or if it show cracks or frayed edges. Refer to figures 11 and 12.

IMPORTANT: Do not move or remove the belt guide. If the position of the belt guide is accidentally altered, return it to the correct setting (6-1/2" above the tine shield support plate).

- · Remove the screw from the top of the belt guard.
- Remove the hex nut from the rear of the guard.
- Remove the belt guard to allow access to drive belt.
- Disengage tine clutch lever and remove belt.
- Reverse above procedures for installation of new belt.





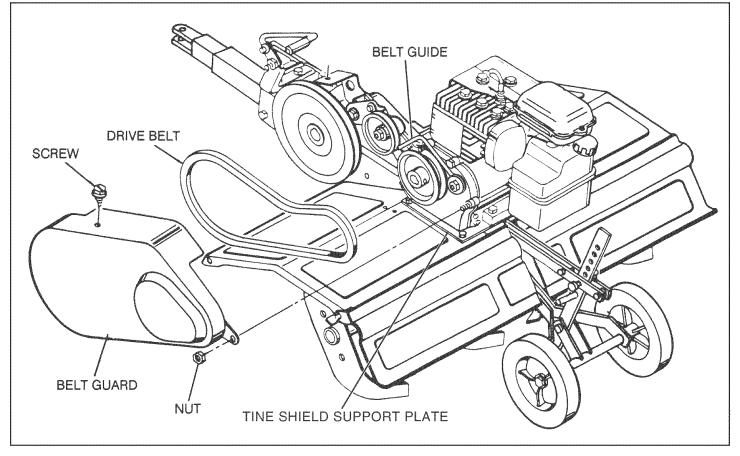


FIG. 11



WARNING: Shut off (disengage) the Tine Clutch Lever, the Tiller Engine and the Tractor Engine before making any repairs.

TINE CARE

• For best results--Tine Blades should be kept reasonably sharp. The Tine Blade can be sharpened on a grinding wheel. Do not attempt to sharpen Tines while they are mounted to Tiller.

SPARE TINE DRIVE BOLTS

- The Tiller drive components are protected from damage by (shearable) Grade 5 hex bolts in the Tine Assemblies. The hex bolts drive the tines and hold them in the proper location. Should the Tine Assemblies strike or pick up a large hidden object or become jammed, the hex bolts will break and the drive components will not be damaged.
- Two extra tine hex bolts and nuts are included with the tiller. They are located in the Tiller Stake Support Bracket on the rear of the Tiller.
- The tine hex bolts are designed to be loose fit. Do not attempt to use a bolt or pin that is larger or harder than the original Grade 5 hex bolts.

STORAGE

Immediately prepare your tiller for storage at the end of the season or if the unit will not be used for 30 days or more.



CAUTION: Never store the tiller 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.

ENGINE

• Follow the instructions in the "Service & Storage" section of the Engine Manual.

TILLER

- Clean entire tiller (See "CLEANING" in the Customer Responsibilities section of the manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjust-ments section of this manual.

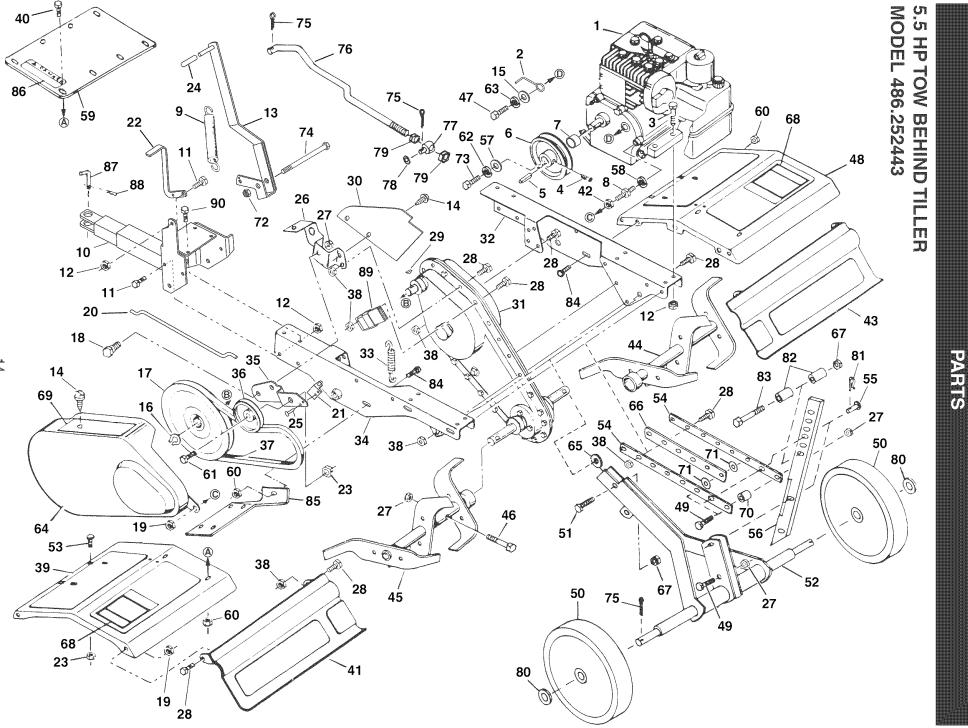
- Lubricate as instructed in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.
- If possible, store tiller indoors and cover it to protect from dust and dirt.
- Cover tiller with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe, which allows condensation to form and will cause your unit to rust.



WARNING: Never cover Tiller while engine and exhaust areas are still warm.

Follow the instructions in the "Service & Storage" section of the Engine Manual when performing any work on the Engine.

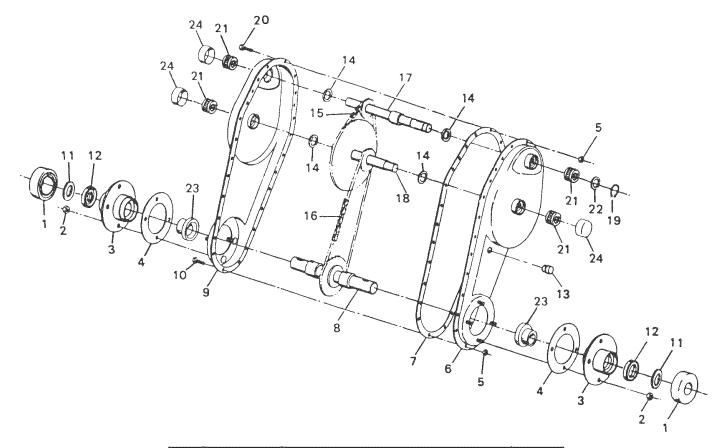
	PROBLEM:
Probable Cause	Possible Remedy
WILL NOT	START OR HARD TO START
No gasoline in Fuel Tank	Fill tank with gasoline
	Place Throttle Control in "FAST" position
	Move Choke control to "RUN" position, place Throttle Control in "FAST" position and pull Starter several times to clear out gas
Dirty Air Cleaner	Remove to inspect, replace if dirty
	Make sure Spark Plug Wire is seated properly on Spark Plug
	Replace Spark Plug and adjust gap
	Drain Fuel Tank and Carburetor, use fresh fuel and replace Spark Plug
Clogged Fuel Tank	Remove and clean
ENGINE MI	SSES OR LACKS POWER
	Remove and clean or replace
Spark Plug dirty, improper gap or wrong type	
Oil in ascoling	Drain and refill gas Tank and Carburetor
Cloggod Eucl Tank	Remove and clean
	> Major Engine overhaul
EN	IGINE OVERHEATS
Low oil level or dirty oil	Add or change oil
	Clean Air Screen
Dirty Engine	Clean Cylinder Fins, Air Screen and Muffler area
Partially Plugged Muffler	Remove and clean Muffler
EXCESSIVE BO	UNCE AND DIFFICULT HANDLING
Wheels and Depth Stake incorrectly adjusted -	Adjust Wheels and Depth Stake
	Moisten ground or wait for more favorable soil conditions
SOIL	BALLS UP OR CLUMPS
Ground too wet	Wait for more favorable soil conditions
ENGINE RUNS	WELL BUT TILLER WON'T MOVE
Tine Control not engeged	Engage Tine Control
V-Belt off pulleys	
	ELL BUT LABORS WHEN TILLING
	Adjust Depth Stake
Throttle Control not properly adjusted -	Check Throttle Control setting



1 1273020112E Engine 1 46 43054 Bolt, 3/8-16 x 2" 4 2 44346 Guide - Bott 1 47 77600 Bolt, 3/8-16 x 2" 4 4 HA115321 Screw, S16-18 x 5/16" Cup PL Set 1 49 HA2062 Bolt, 3/8-16 x 1".12" Hex Head 5 6 HA20176 Pulley 1 51 H74730828 Bolt, 3/8-16 x 1".12" Hex Head 2 7 750-0456 Specer 1 53 43350 But, 3/8-16 x 1".2" Hex Head 1 8 94917 Stud, Hex Drive 1 53 43350 Bolt, 3/8-16 x 1".Carriage 8 9 HA19960 Spring, Depth Extension 1 55 HA20725 Strap Frame Extension 2 1 12 40063 Bott, 5/16" Std. Wrt 1 66 H20090 Stake, Drag 1 1 13 64343 Lift Hex Head 5 56 H420090 Stake, Drag 1 1 14	Ref. No.	Part Number	Description	Qty. Req.	8	lef. Io.	Part Number	Description	Qty. Req.
2 48346 Guida - Belt 1 47 7 droo Boit, Hex S/16-24 x 1* 1 4 HA1152 Screw, 5/16-18 x 5/16* Cup PL Set 1 48 HA20035 Tine Sheeld Assembly - FH 1 5 HA11154 Key, Square 3/16* x 2* 1 50 HA20018 Bolt, 3/6-16 x 1-1/2* Hex Head 1 7 750-0456 Spacer 1 52 HA20070 Pivot Axle Assembly 1 8 9417 Stud. Hex Drive 1 53 43305 Bolt, 3/1-16 x 1* Carriage 8 9 HA19860 Spring, Depth Extension 1 54 HA20725 Strap Frame Extension 2 14 49840 Sorew Self-Tapping 14* x 1* 1 58 43177 Colowasher, 1/4* Med. 1 14 49840 Sorew Self-Tapping 14* x 1* 60 47810 Nut, Hex S/16-16 Mytock 10 14 49840 Sorew Self-Tapping 14* x 1* 1 60 47810 Nut, Hex S/16-16 Mytock 10 14 <	1	1273020112E1	Engine	1		16	43054	Bolt 3/8-16 x 2"	4
3 43085 Bolt, 5716-18 x 1-1/2" Hex Head 4 48 HA20935 Time Shield Assembly - Rif 1 5 5 HA111541 Key, Square 3/16" x 2" 1 50 HA20918 Bolt, 378-16 x 1-1/2" Hex Head 5 6 HA20176 Puliday 1 50 HA20818 Bolt, 1/2-13 x 1-3/4" Hex Head 1 7 750-0456 Spacer 1 52 HA20725 Strag Frame Extension 2 8 HA19860 Spring, Depth Extension 1 53 HA20725 Strag Frame Extension 2 10 64282 Hitch Bracket Assembly 1 55 HA20725 Strag Frame Extension 2 11 43063 Bolt, 5716-18 x 1*12" 3 59 HA20725 Strag Frame Extension 1 12 43084 Lockrut, 5716-18 x 1*12" 3 59 HA20316 Nut, Hex, 5716*18 NUT 1 13 64313 Lift Handle Assembly 1 63 43030 Lock Washer, 5716* Std. Wt. 10 <td></td> <td></td> <td>0</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>			0		1				
4 HA115221 Screw, 5/16-18 x, 5/16" Cup Pt. Set 1 49 43062 Bolt, 3/8-16 x 1-1/2" Hex Head 5 6 HA20176 Pulley Pulley 1 51 R74780828 Bolt, 1/2-13 x 1-3/4" Hex Head 1 7 750-0456 Spacer 1 52 HA20070 Pivot Axk Assembly 1 8 941917 Stud, Hex Drive 1 54 HA20225 Strap Frame Extension 2 10 64282 Hith Bracket Assembly 1 55 HA4333 Pin, Clevis 2 11 43063 Bolt, 5/16-18 x 1" Hex Head 5 56 HA202690 Stake, Drag 1 12 43064 Locknut, 5/16-18 Hex 9 57 43322 Washer, 7/16" Std. Wrt. 1 13 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 1/4" Med. 1 14 48840 Screw, Self-Tapping 1/4" x 1/2" 3 69 HA20316 Piate, Frader Support 1 14 49840 Screw, Self-Tapping 1/4" x 1/2" 1 60 47810 <t< td=""><td></td><td></td><td></td><td>1 1</td><td>8</td><td></td><td></td><td></td><td>1 1</td></t<>				1 1	8				1 1
5 HA11154 Key, Square 3/16" x 2" 1 50 HA20918 Wheel 2 1 51 R74708282 Bolt, 1/2-13 x 1-3/4" Hex Head 1 7 750-0456 Spacer 1 52 HA20870 Pivol Axle Assembly 1 8 HA19860 Spring, Deph Extension 1 54 HA20725 Strag Frame Extension 2 10 64282 Hitch Bracket Assembly 1 55 HA3433 Pin, Clevis 2 11 43063 Bolt, 576-18 1/* Hex Head 5 56 HA20725 Strag, Drag 1 12 43064 Locknut, 5716-18 1/* Hex Head 5 56 HA20726 Strake, Drag 1 13 64343 Lift Handle Assembly 1 58 4177 Lockwasher, 14" Hex Head 1 14 48840 Screw, Self-Tapping 1/4" x 1/2" 3 59 HA20316 Plate, Frader Support 1 14 H420175 Ring, Retainer 2 61 41576<				9 · I	8				
6 HA20176 Pulley 1 51 R74780282 Bolt, 1/2-13 x 1-3/4" Hex Head 1 7 750-0456 Spacer 1 52 HA20670 Pivot Axle Assembly 1 8 94917 Stud, Hex Drive 1 53 43350 Bolt, 3/6-16 x 1" Carlage 8 9 HA1960 Spring, Depth Extension 1 54 HA20725 Strap Frame Extension 2 10 64282 Hitch Bracket Assembly 1 55 HA2033 Pin, Clevis 2 11 43064 Lockwasher, 716" Std. Wrt. 1 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 716" Std. Wrt. 1 14 48840 Screw, Self-Tapping 1/4" x 1/2" 3 59 HA20316 Plate, Forde" Std. Wrt. 1 15 43001 Washer, 5/16" Std. Wrt. 1 62 43003 Lock Washer, 3/8" 1 16 HA20178 Bolt-Shoulder 1 62 43003 Lock Washer, 3/8" 1				* I	8				
7 750-0456 Spacer 1 52 HA20870 Pivot Avle Assembly 1 8 9417 Stud, Hax Drive 1 53 43350 Bolt, 3/e-16.x 1° Carriage 8 10 64282 Hitch Bracket Assembly 1 55 HA3033 Pin, Clevis 2 11 43063 Bolt, 5/16-18.1* Hex Head 5 56 HA202690 Stake, Drag 1 12 43064 Locknut, 5/16-18.Hex 9 57 43352 Washer, 7/16* Stu. Wrt. 1 13 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 1/4* Med. 1 14 48840 Screw, Self-Tapping 1/4* x 1/2* 3 59 HA20376 Plate, Fender Support 1 14 48840 Screw, Self-Tapping 1/4* x 1/2* 3 59 HA20376 Bolt -3/6+16x 1-3/4* Hex Head 1 17 HA20178 Bolt -Shoulder 1 62 43003 Lock Washer, 3/6* 1 18 HA20178 Bolt -Shoulder 1 63 43086 Lock Washer, 7/16* 1 </td <td></td> <td></td> <td></td> <td>8 · E</td> <td></td> <td>· · •</td> <td></td> <td></td> <td></td>				8 · E		· · •			
8 94917 Slud, Hex Drive 1 53 43350 Bolt, 376-16 x1* Carriage 8 9 HA19860 Spring, Depth Extension 1 53 HA20725 Strap Frame Extension 2 11 43063 Bolt, 5716-18 x1* Hex Head 5 56 HA20209 Stake, Drag 1 12 43064 Locknut, 5716-18 Hex 9 57 43352 Washer, 716* Std. Wrt. 1 13 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 14* Med. 1 14 48840 Screw, Self-Tapping 1/4* x1/2* 3 59 HA20316 Pitele, Fender Support 1 15 43081 Washer, 5716* Std. Wrt. 1 60 47810 Nut, Hex 5/16*18 Njtock 10 16 HA20178 Bolt - Shoulder 1 63 43036 Lock Washer, 5/16* 1 19 47189 Nut, Hex Njtock 1/4-20 3 64 24849 Belt Guard (not. #69) 1 20 24448<			,		8			· · ·	F . F
9 HA19860 Spring, Depth Extension 1 54 HA20725 Strap Frame Extension 2 10 64282 Hitch Bracket Assembly 1 55 HA3433 Pin, Clevis 2 11 43063 Bolt, 5/16-18 x 1" Hex Head 5 56 HA20690 Stake, Drag 1 12 43064 Locknut, 5/16-18 Hex 9 57 43352 Washer, 7/16' Std. Wrt. 1 13 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 14" Med. 1 14 48840 Screw, Self-Tapping 1/4" x 1/2" 3 59 HA201616 Plate, Fender Support 1 14 48840 Screw, Self-Tapping 1/4" x 1/2" 3 69 HA2016 Nut, Hex Njock 10 16 HA20135 Ring, Retainer 1 62 43036 Lock Washer, 3/8" 11 19 47189 Nut, Hex Njock 1/4-20 3 64 24849 Belt Guard (incl. #69) 11 21 HA21362<									
10 64282 Hich Bracket Assembly 1 55 HA3433 Pin. Clevis 2 11 43063 Bolt, 5/16-18 x1 * Hext Head 5 56 HA20690 Stake, Drag 1 13 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 1/4* Med. 1 14 48840 Screw, Self-Tapping 1/4* x12" 3 59 HA20316 Pitate, Fender Support 1 15 43081 Washer, 5/16* Std. Wrt. 1 60 47810 Nut, Hex S/16-18 Myock 10 16 HA20135 Ring, Retainer 2 61 41576 Bolt - 396-16 x - 13/4* Hex Head 1 17 HA20184 Pulley, Input 1 63 43086 Lock Washer, 5/16* 1 19 47189 Nut, Hex Nylock 1/4-20 3 64 24849 Belt Guard (ncl. #69) 1 20 24848 Clutch Rod 1 66 HA20691 Strap-Frame Extension Brace 1 21 HA21362	1			1 1	- E -	·			
11 43063 Bolt, 5/16-18 x 1" Hex Head 5 56 HA20690 Stake, Drag 1 12 43064 Locknut, 5/16-18 Hex 9 57 43352 Washer, 7/16" Std. Wrt. 1 13 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 1/4" Med. 1 14 48840 Screw, Self-Tapping 1/4" x 1/2" 3 59 HA20316 Pilate, Fender Support 1 15 43081 Washer, 5/16" Std. Wrt. 1 62 43003 Lock Washer, 5/16" 10 16 HA20178 Bolt - Shoulder 1 63 43086 Lock Washer, 5/16" 1 19 47189 Nut, Hex Nylock 1/4-20 3 64 2449 Belt Guard (incl. #69) 1 20 2484 Clutch Rod 1 66 HA20388 Decal, Danger 2 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal 1 24 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Deccal 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
12 43064 Locknut, 5/16-18 Hex 9 57 43352 Washer, 7/16" Std. Wrt. 1 13 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 1/4" Med. 1 14 48840 Screw, Self-Tapping 1/4" x 1/2" 3 59 HA20316 Nut, Hex 5/16-18 Nylock 10 15 43081 Washer, 5/16" Std. Wrt. 1 60 47810 Nut, Hex S/16-18 Nylock 10 16 HA20178 Bolt - Shoulder 1 62 43008 Lock Washer, 5/16" 11 19 47189 Nut, Hex Nylock 1/4-20 3 64 24849 Belt Guard (nol. #69) 1 20 24848 Clutch Rod 1 65 HA14306 Washer 1 21 HA2170 Grip, Handle 1 67 43262 Nut, 1/2-13 Hex Lock 2 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20942 Decal 1 24 H32170 Grip, Handle 1 67 43262 Nut, 1/2-13 Hex Lock 2 24<				8 · I	2				
13 64343 Lift Handle Assembly 1 58 43177 Lockwasher, 1/4* Med, 1 14 48840 Screw, Self-Tapping 1/4* x 1/2" 3 59 HA20316 Plate, Fender Support 1 15 43081 Washer, 5/16* Std, Wrt, 1 60 47810 Nut, Hex 5/16-18 Mylock 10 16 HA20178 Bolt - Shoulder 1 62 43003 Lock Washer, 5/16* 1 19 47189 Nut, Hex Nylock 14-20 3 64 24849 Belt Guard (incl. #69) 1 20 24848 Clutch Rod 1 66 HA20691 Strap-Frame Extension Brace 1 21 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20942 Decal 1 24 HA20170 Grip, Handle 1 69 HA20942 Decal 1 1 25 C-9M5732 Rivel, Pop 2 70 HA5713 Spacer 1 1 24 HA20136 Bracket, Belt Guide & Idler Mounting 1 74 48278 Bolt, Hex 5/8-11 Nylock	3					· · •		Slake, Diag	
14 48840 Screw, Self-Tapping 1/4" x 1/2" 3 59 HA20316 Plate, Fender Support 1 15 43081 Washer, 5/16" Std. Wrt. 1 60 47510 Nut, Hex 5/16-18 Mylock 10 16 HA20135 Ring, Retainer 2 61 41576 Bolt -39416 x 1-3/4" Hex Head 1 17 HA20178 Bolt -Shoulder 1 62 43008 Lock Washer, 5/16" 1 19 47189 Nut, Hex Nylock 1/4-20 3 64 24849 Belt Guard (incl. #69) 1 20 24848 Clutch Rod 1 65 HA1306 Washer, 5/16" 1 21 HA23199 Switch, Safety Interlock 1 66 HA20691 Strap-Frame Extension Brace 1 22 24847 Lever, Clutch 1 67 43262 Nut, 1/2-13 Hex Lock 2 23 HA2132 Nite, Hex Nylock 3/8-16 9 68 HA20938 Decal 1 24 HA20170 Grip, Handle 1 67 43262 Nut, 1/2-13 Hex Lock 2	1		· · · · · · · · · · · · · · · · · · ·	2 I		· · ·			
15 43081 Washer, 5/16" Std. Wrt. 1 60 47810 Nut, Hex 5/16-18 Nylock 10 16 HA20135 Ring, Retainer 2 61 41576 Bolt - 3/8-16 x 1-3/4" Hex Head 1 17 HA20178 Bolt - Shoulder 1 63 43006 Lock Washer, 3/8" 1 18 HA20178 Bolt - Shoulder 1 63 43066 Lock Washer, 3/6" 1 19 47189 Nut, Hex Nylock 1/4-20 3 64 24849 Belt Guard (incl. #69) 1 20 24848 Clutch Rod 1 65 HA14306 Washer 1 21 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal Dara 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal 1 1 24 HA20170 Grip, Handle 1 69 HA20942 Decal 1 1 25 C-9M5732 Rivet, Pop 2 70 HA5713 Spacer 1 1 24 </td <td>1</td> <td></td> <td>2</td> <td></td> <td>5</td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td>	1		2		5			· · · · · · · · · · · · · · · · · · ·	
16 HA20135 Ring, Retainer 2 61 41576 Bolt - 3/8-16 x 1-3/4" Hex Head 1 17 HA20184 Pulley, Input 1 62 43003 Lock Washer, 3/8" 1 18 HA20178 Bolt - Shoulder 1 63 43086 Lock Washer, 5/16" 1 19 47189 Nut, Hex Nylock 1/4-20 3 64 24849 Belt Guard (incl. #69) 1 20 24848 Clutch Rod 1 65 HA14306 Washer 1 21 HA23199 Switch, Safety Interlock 1 66 HA20938 Decal, Danger 2 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal 1 24 HA20170 Grip, Handle 1 67 43262 Nut, Hex S/18-11 Nylock 1 24 HA20170 Grip, Handle 1 70 72 712-0261 Nut, Hex 5/18-11 Nylock 1 24 HA20134 Bracket, Belt Guide &				9 E					
17 HA20184 Puley, Input 1 62 43003 Lock Washer, 3/8" 1 18 HA20178 Bolt - Shoulder 1 63 43086 Lock Washer, 3/8" 1 19 47189 Nut, Hex Nylock 1/4-20 3 64 24849 Belt Guard (incl. #69) 1 20 24848 Clutch Rod 1 65 HA14306 Washer 1 21 HA21362 Nut, Hex Nylock 3/8-16 9 66 HA20931 Strap-Frame Extension Brace 2 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal 1 26 G-9M5732 Rivet, Pop 2 70 HA5713 Spacer 1 27 49082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/8-11 Nylock 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 5/8-11 X 7.1/2" 1 29 HA20132 Cover, Drive 1 74 48278 Bolt, Hex 5/8-11 X 7.1/2" 1 21	1		· · · · · · · · · · · · · · · · · · ·	9 · I					
18 HA20178 Bolt - Shoulder 1 63 43086 Lock Washer, 5/16" 1 19 47189 Nut, Hex Nylock 1/4-20 3 64 24849 Belt Guard (incl. #69) 1 20 24846 Clutch Rod 1 65 HA14306 Washer 1 21 HA23199 Switch, Safety Interlock 1 66 HA20691 Strap-Frame Extension Brace 1 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal, Danger 2 24 HA20170 Grip, Handle 1 69 HA20942 Decal 1 25 C-9M5732 Rivet, Pop 2 70 HA5713 Spacer 1 26 HA20134 Bracket, Belt Guide & Idler Mounting 1 71 HA15200 Washer 2 27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/18-11 Nylock 1 28 HA20185 Key, Woodruff No. 61 11 73 44377 Bolt, Hex 3/8-24 x 1" 1 30 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>· · ·</td><td></td><td></td><td>I . I</td></td<>						· · ·			I . I
19 47189 Nut, Hex Nylock 1/4-20 3 64 24849 Belt Guard (incl. #69) 1 20 24848 Clutch Rod 1 65 HA14306 Washer 1 21 HA23199 Switch, Safety Interlock 1 66 HA20931 Strap-Frame Extension Brace 1 22 24847 Lever, Clutch 1 67 43262 Nut, 1/2-13 Hex Lock 2 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal, Danger 2 24 HA20170 Grip, Handle 1 67 43262 Decal 1 25 C-9M5732 Rivet, Pop 2 70 HA5713 Spacer 2 27 43082 Locknut, 3/8-16 Hex 10 7 744377 Bolt, Hex S/8-11 Nylock 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex S/8-11 x 7-1/2" 1 30 24863 Cover, Drive 1 75 43010 Pin -1/8" x 1-1/4" Cotter 6 31 HA20119	8			8 F	7				1 1
20 24848 Clutch Rod 1 65 HA14306 Washer 1 21 HA23199 Switch, Safety Interlock 1 66 HA20691 Strap-Frame Extension Brace 1 22 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal, Danger 2 24 HA20170 Grip, Handle 1 69 HA20942 Decal 1 25 C-9M5732 Rivet, Pop 2 70 HA5713 Spacer 1 26 HA20134 Bracket, Belt Guide & Idler Mounting 1 71 HA15200 Washer 1 27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/18-11 Nylock 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 5/8-11 x 7-1/2" 1 29 HA20185 Key, Woodruff No. 61 1 74 HA20688 Rod - Lift 1 21 24863 Cover, Drive 1 75 43010 Pin - 1/8" x 1-1/4" Cotter 6 31 <t< td=""><td></td><td></td><td></td><td></td><td>8</td><td></td><td></td><td></td><td></td></t<>					8				
21 HA23199 Switch, Safety Interlock 1 66 HA20691 Strap-Frame Extension Brace 1 22 24847 Lever, Clutch 1 67 43262 Nut, 1/2-13 Hex Lock 2 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal, Danger 2 24 HA20170 Grip, Handle 1 69 HA20942 Decal 1 25 C-9M5732 Rivet, Pop 2 70 HA5713 Spacer 1 26 HA20134 Bracket, Belt Guide & Idler Mounting 1 71 HA15200 Washer 2 27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/8-11 x 7-1/2" 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 5/8-11 x 7-1/2" 1 29 HA20185 Key, Woodruff No. 61 1 74 48278 Bolt, Hex 5/8-11 x 7-1/2" 1 30 24863 Cover, Drive 1 76 HA20688 Rod - Lift 1 3				9 I	8 -			,	
22 24847 Lever, Clutch 1 67 43262 Nut, 1/2-13 Hex Lock 2 23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal, Danger 2 24 HA20170 Grip, Handle 1 69 HA20942 Decal 1 25 C-9M5732 Rivet, Pop 2 70 HA5713 Spacer 1 26 HA20134 Bracket, Belt Guide & Idler Mounting 1 71 HA15200 Washer 2 27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/18-11 Nylock 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 5/8-11 x 7-1/2" 1 30 24863 Cover, Drive 1 75 43010 Pin - 1/8" x 1-1/4" Cotter 6 31 HA20186 Spring, Extension 1 76 HA20688 Rod - Lift 1 32 24843 Chassis, Right 1 79 HA120396 Washer - 17/32" x 1-1/6" x .095" Flat 1 34 <td>1</td> <td></td> <td></td> <td>1 1</td> <td></td> <td>· · •</td> <td></td> <td></td> <td></td>	1			1 1		· · •			
23 HA21362 Nut, Hex Nylock 3/8-16 9 68 HA20938 Decal, Danger 2 24 HA20170 Grip, Handle 1 69 HA20942 Decal 1 25 C-9M5732 Bivet, Pop 2 70 HA5713 Spacer 1 26 HA20174 Bracket, Belt Guide & Idler Mounting 1 71 HA15200 Washer 2 27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/18-11 Nylock 1 28 43661 Bolt, 1/4-20 x1" Hex Head 11 73 44377 Bolt, Hex 3/8-24 x1" 1 29 HA20185 Key, Woodruff No. 61 1 74 48278 Bolt, Hex 3/8-12 x 1-1/2" 1 30 24863 Cover, Drive 1 75 43010 Pin - 1/8" x 1-1/4" Cotter 6 31 HA20186 Spring, Extension 1 76 HA20688 Rod - Lift 1 32 24844 Chassis, Right 1 79 HA124934 Nut - 1/2-20 Hex Jam 2 34	8								
24 HA20170 Grip, Handle 1 69 HA20942 Decal 1 25 C-9M5732 Rivet, Pop 2 70 HA5713 Spacer 1 26 HA20134 Bracket, Belt Guide & Idler Mounting 1 71 HA15200 Washer 2 27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/18-11 Nylock 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 5/18-11 Nylock 1 29 HA20185 Key, Woodruff No. 61 1 74 48278 Bolt, Hex 5/18-11 X 7-1/2" 1 30 24863 Cover, Drive 1 76 HA20688 Rod - Lift 1 31 HA20119 Transmission - Complete 1 77 HA19649 Anchor - Adjustment 1 32 24843 Chassis, Left 1 77 HA19649 Anchor - Adjustment 1 34 24844 Chassis, Right 1 78 HA120396 Washer - 17/32" x 1-1/6" x .095" Flat 1	3				8 -				
25 C-9M5732 Rivet, Pop 2 70 HA5713 Spacer 1 26 HA20134 Bracket, Belt Guide & Idler Mounting 1 71 HA15200 Washer 2 27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/18-11 Nylock 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 5/8-11 X 7-1/2" 1 29 HA20185 Key, Woodruff No. 61 1 74 48278 Bolt, Hex 5/8-11 X 7-1/2" 1 30 24863 Cover, Drive 1 75 43010 Pin - 1/8" x 1-1/4" Cotter 6 31 HA20186 Spring, Extension 1 76 HA20396 Washer - 17/32" x 1-1/6" x .095" Flat 1 33 HA20186 Spring, Extension 1 78 HA120396 Washer - 13/16" x 1-1/2" x .134" Flat 4 36 HA11496 Pulley, Idler 1 80 HA456151 Washer - 13/16" x 1-1/2" x .134" Flat 4 36 H3013 Nut, 1/4-20 Hex Lock 9 83 R74760884				÷ 1		· · •			
26 HA20134 Bracket, Belt Guide & Idler Mounting 1 71 HA15200 Washer 2 27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/18-11 Nylock 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 3/8-24 x 1" 1 29 HA20185 Key, Woodruff No. 61 1 74 48278 Bolt, Hex 5/8-11 x 7-1/2" 1 30 24863 Cover, Drive 1 75 43010 Pin - 1/8" x 1-1/4" Cotter 6 31 HA20119 Transmission - Complete 1 76 HA20688 Rod - Lift 1 32 24843 Chassis, Left 1 77 HA19649 Anchor - Adjustment 1 34 24844 Chassis, Right 1 79 HA124934 Nut - 1/2-20 Hex Jam 2 35 24846 Bracket, Idler 1 80 HA26481 Pin - Hair Cotter 2 37 HA20187 V			1 · ·		8				1 1
27 43082 Locknut, 3/8-16 Hex 10 72 712-0261 Nut, Hex 5/18-11 Nylock 1 28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 3/8-24 x 1" 1 29 HA20185 Key, Woodruff No. 61 1 74 48278 Bolt, Hex 5/8-11 x 7-1/2" 1 30 24863 Cover, Drive 1 75 43010 Pin - 1/8" x 1-1/4" Cotter 6 31 HA20119 Transmission - Complete 1 76 HA20688 Rod - Lift 1 32 24843 Chassis, Left 1 77 HA19649 Anchor - Adjustment 1 33 HA20186 Spring, Extension 1 78 HA120396 Washer - 17/32" x 1-1/6" x .095" Flat 1 34 24844 Chassis, Right 1 79 HA124934 Nut - 1/2-20 Hex Jam 2 35 24846 Bracket, Idler 1 80 HA426151 Washer - 13/16" x 1-1/2" x .134" Flat 4 36 HA211496 Pulley, Idler 1 81 HA20481 Pin - Hair Cotter </td <td></td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td></td> <td></td> <td></td>					8				
28 43661 Bolt, 1/4-20 x 1" Hex Head 11 73 44377 Bolt, Hex 3/8-24 x 1" 1 29 HA20185 Key, Woodruff No. 61 1 74 48278 Bolt, Hex 3/8-24 x 1" 1 30 24863 Cover, Drive 1 75 43010 Pin - 1/8" x 1-1/4" Cotter 6 31 HA20119 Transmission - Complete 1 76 HA20688 Rod - Lift 1 32 24843 Chassis, Left 1 77 HA19649 Anchor - Adjustment 1 33 HA20186 Spring, Extension 1 78 HA120396 Washer - 17/32" x 1-1/6" x .095" Flat 1 34 24844 Chassis, Right 1 79 HA120396 Washer - 13/16" x 1-1/2" x .134" Flat 4 35 24846 Bracket, Idler 1 80 HA456151 Washer - 13/16" x 1-1/2" x .134" Flat 4 36 HA11496 Pulley, Idler 1 81 HA20481 Pin - Hair Cotter 2 37 HA20187 V-Beit 1 82 HA7974 Spacer 2 <td>2</td> <td></td> <td>Bracket, Belt Guide & Idler Mounting</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	2		Bracket, Belt Guide & Idler Mounting		1				
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REPAIR PARTS FOR MODEL 486.252443 5.5 HP TOW BEHIND TILLER



Ref. No.	Part Number	Description	Qty. Req.
1	HA20344	Dust Cap	2
2	43064	Locknut, 5/16-18 *	8
3	HA20123	Flange & Bearing Assy	2
4	HA20122	Gasket, Flange	2
5	43013	Locknut, 1/4-20 Hex *	17
6	HA20120	Drive Housing & Bearing Assy - LH	
7	HA20136	Gasket, Drive Housing	4
8	HA20127	Tine Shaft Assy	1
9	HA20121	Drive Housing & Bearing Assy - RH	4
10	43866	Bolt, Hex 1/4-20 x 5/8" Grade 8	15
11	HA20125	Washer, Felt	2
12	HA20124	Seal, Rubber	2
13	HA20130	Plug, Transmission Oil	
14	HA20129	Washer, Thrust	4
15	HA20132	Chain Assembly #40	4
16	HA20128	Chain Assembly #50	4
17	HA20133	Input Shaft Assembly	
18	HA20131	Idler Shaft Assembly	
19	HA20135	Ring, Retainer 5/8" Dia. Shaft	-
20	43012	Bolt - 1/4-20 x 3/4" Hex Head *	2
21	HA20137	Bearing	4
22	HA20145	Seal	1
23	HA20155	Bearing, Flange	2 3
24	HA20138	Cap, Bearing	3

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