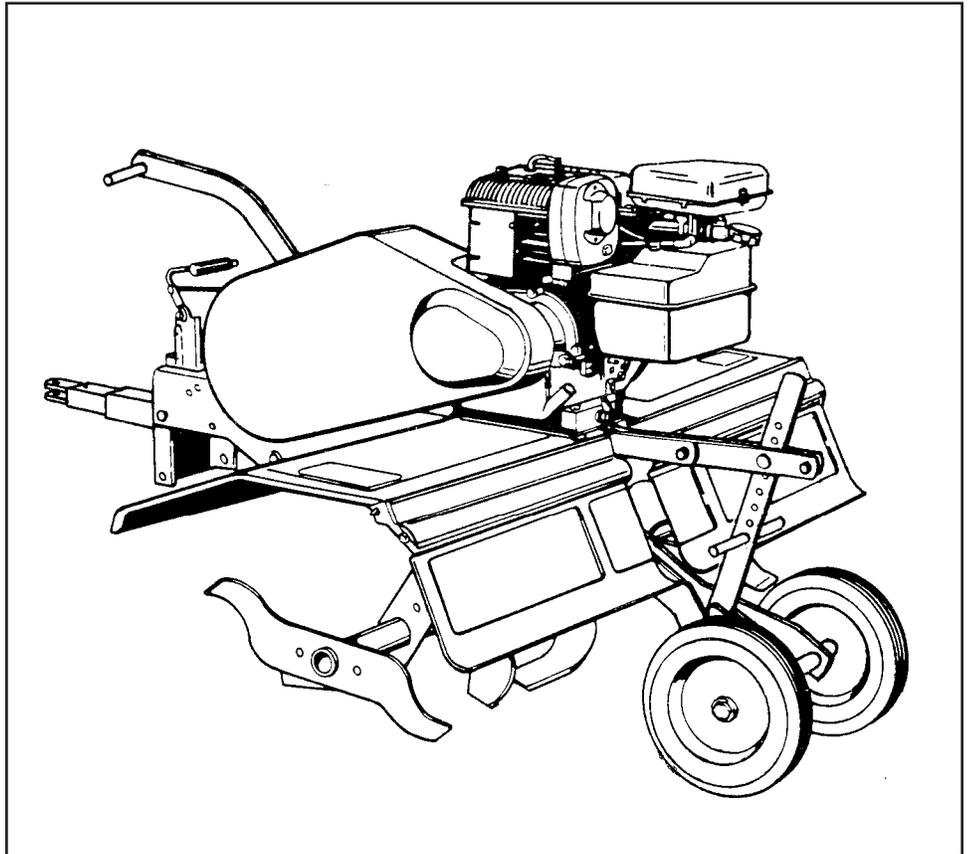


Agri-Fab®

OWNER'S MANUAL

MODEL NO. 45-03081



5 HP UNIVERSAL TOW BEHIND TILLER

CAUTION:
Read Rules for
Safe Operation
and Instructions
Carefully

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustment
- Repair Parts

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CONGRATULATIONS on your purchase of a tow behind tiller. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

PRODUCT SPECIFICATIONS

HORSEPOWER:	5.0 H.P.
DISPLACEMENT:	12.48 cu. in.
OIL (20 oz. Capacity):	Above 32 F: SAE 30 Below 32 F: SAE 5W30
SPARK PLUG (GAP .030 IN.):	Champion QC12YC
TILLING GROUND SPEED:	Approx. 2 MPH
TILLING WIDTH:	36 IN.
TILLING TINE SPEED:	260 RPM

Please read and retain this manual. The instructions will enable you to assemble and maintain your tiller properly. Always observe the "SAFETY RULES".

<p>MODEL NUMBER 45-03081</p> <p>SERIAL NUMBER _____</p> <p>DATE OF PURCHASE _____</p> <p>THE MODEL AND SERIAL NUMBER WILL BE FOUND ON THE MODEL PLATE ATTACHED TO THE RIGHT HAND CHASSIS.</p> <p>YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.</p>
--

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest covered, brush 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 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 muffler is available at your nearest authorized engine service center.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your Tiller.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this Owner's Manual.



SAFETY RULES



Safe Operation Practices for the Tow-Behind Tiller Attachment

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

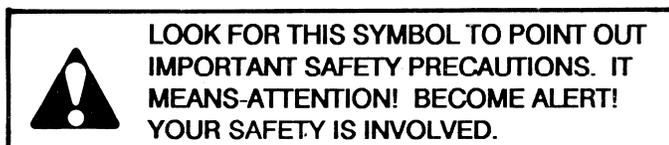
- Check the fuel and lubrication before starting the engine. Do not fill the gasoline tank indoors when the engine is running or while the engine is still hot. Wipe off any spilled gasoline before starting the engine.
- Inspect the area to be filled. Remove glass, wire, metal objects, large sticks and 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 tines or debris thrown by this machine. Therefore, always stay a safe distance away from tines.
- Stop the tiller engine when leaving your tiller unattended.
- Check before each use for loose fasteners or parts.

IMPORTANT

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



- Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in an enclosure.
- Stop engine and disconnect spark plug lead wire before cleaning tines, removing obstacles or making adjustments except for any instructions which must be done while the engine is running.
- Never place hands or feet under or into rotating parts or concealed areas. Keep hands and feet clearly away from tine elements, belts, pulleys, etc., while engine is running.
- Wear substantial shoes and eye protection while using tiller.
- Never attempt to make a maintenance adjustment except on the carburetor, while engine is running.
- 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 Drive Clutch, stop tiller and tractor engines before getting off the tractor.
- Disengage the Tine Drive Clutch 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 Owners Manual supplied with the unit.
- Disconnect spark plug wire before making any maintenance adjustment or repair.
- Store gasoline in an approved metal container in a cool, dry place.
- Keep all nuts, bolts and screws tight. Keep machine in good operating condition and keep safety devices in place.
- Safety and performance levels can be assured only by the use of specified replacement parts.

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.

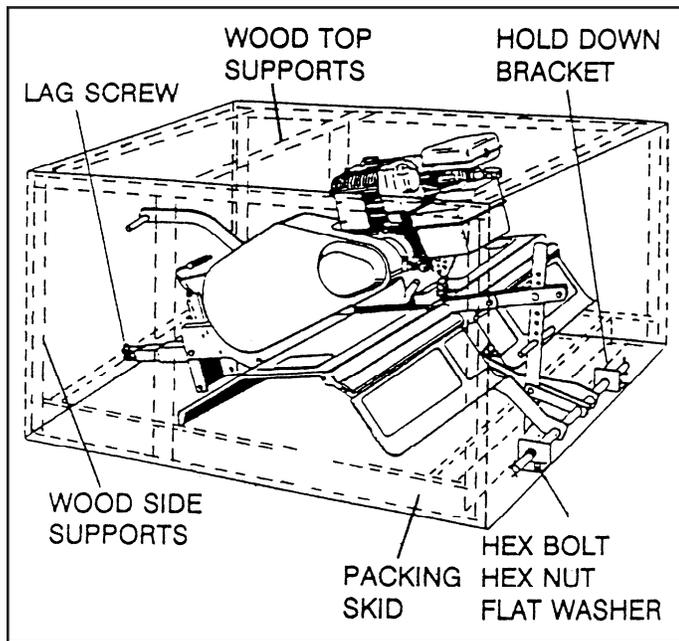


FIG. 1

- 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.)

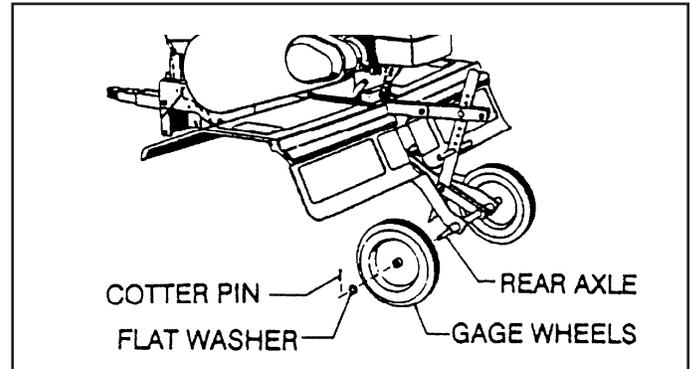


FIG. 2

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

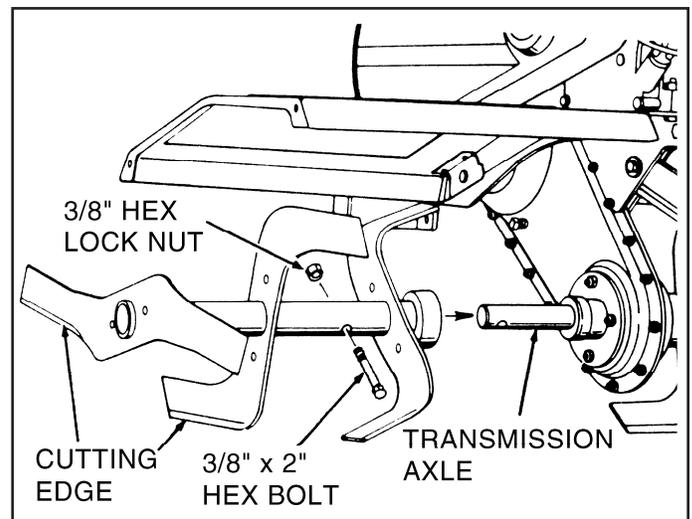


FIG. 3

ASSEMBLY

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.

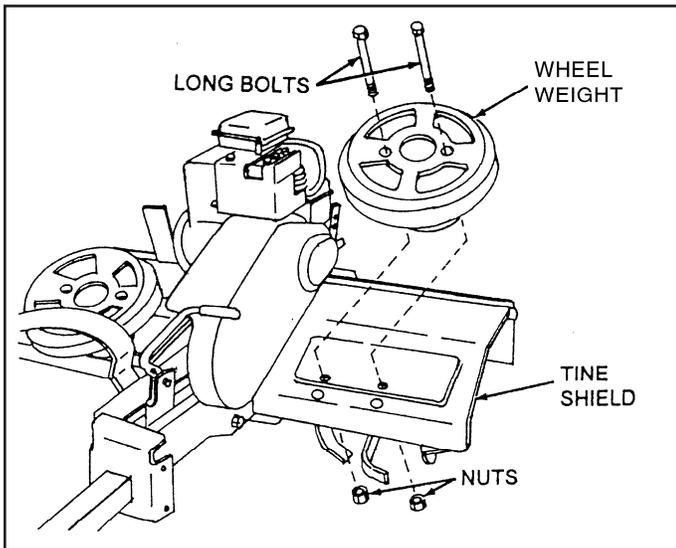


FIG. 4

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.

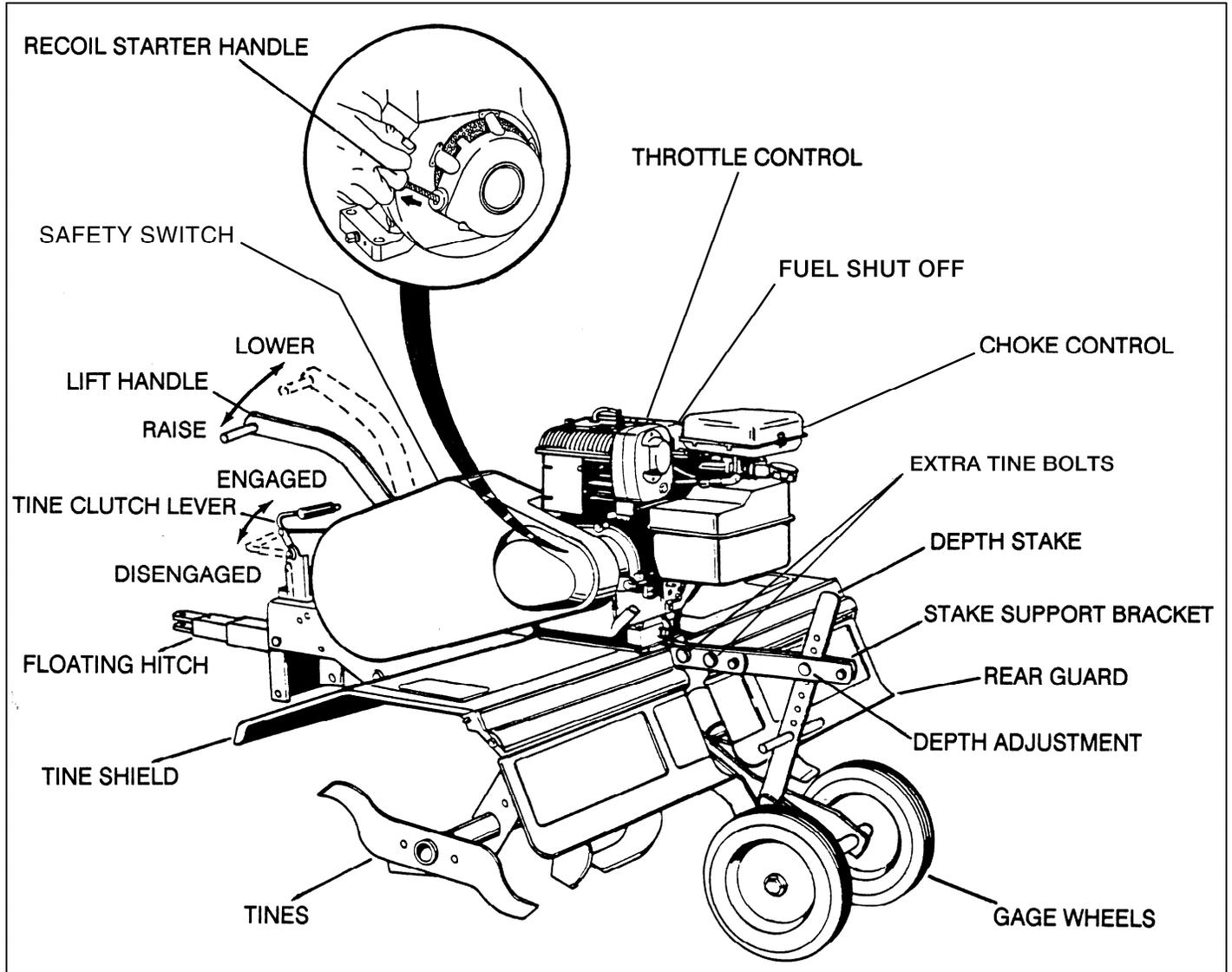


FIG. 5

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 off fuel to engine

CHOKE CONTROL - used when starting a cold engine

DEPTH STAKE - controls tilling/cultivating depth

OPERATION



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.

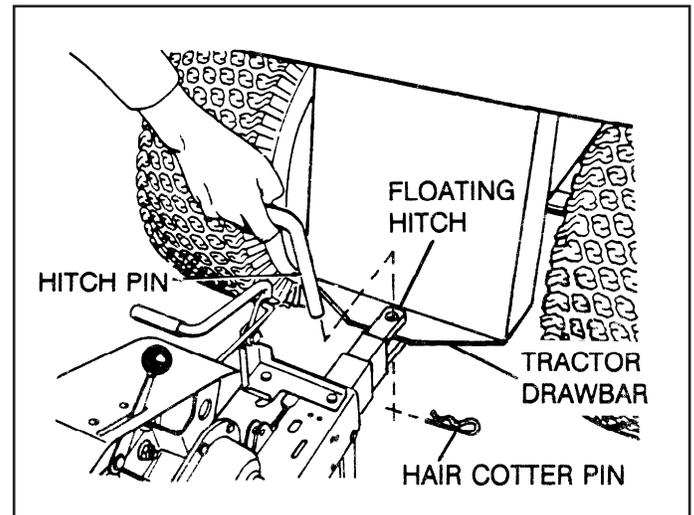


FIG. 6

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.

OPERATION

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 virgin soil, 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).

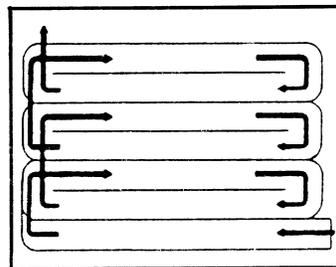


FIG. 7

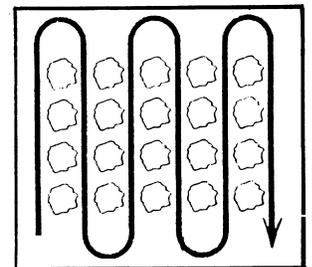


FIG. 8

CUSTOMER RESPONSIBILITIES

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 air-fuel 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 Fill in dates as you complete regular service.	Before	each	First 5 to 8 hrs.	25 hrs. or every season	50 hrs. or every season	100 hrs. or every season	Yearly	Service Dates													
Check Engine Oil Level	X																				
Change Engine Oil		X		X*																	
Service air cleaner precleaner			X**																		
Service air cleaner cartridge					X**																
Replace spark plug					X																
Clean cooling system					X**																
Check valve clearance							X														
Check for loose fasteners	X																				
Lubricate Tiller			X																		
Lubricate Tiller Transmission			X																		

*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.

LUBRICATION CHART

- REFER TO SEPARATE ENGINE OPERATING & MAINTENANCE INSTRUCTIONS
- REFER TO CUSTOMER RESPONSIBILITIES "TILLER LUBRICATION SECTION."
- 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.

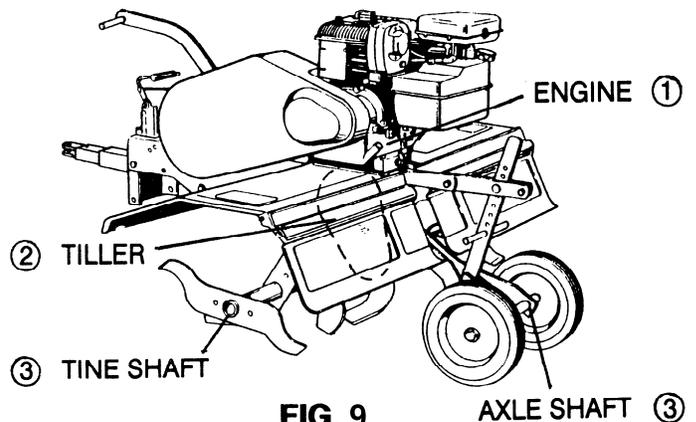


FIG. 9

AXLE SHAFT ③

CUSTOMER RESPONSIBILITIES

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 necessary to change the Oil in this Tiller Transmission. If for any reason it must be changed, Oil capacity is 22 oz.

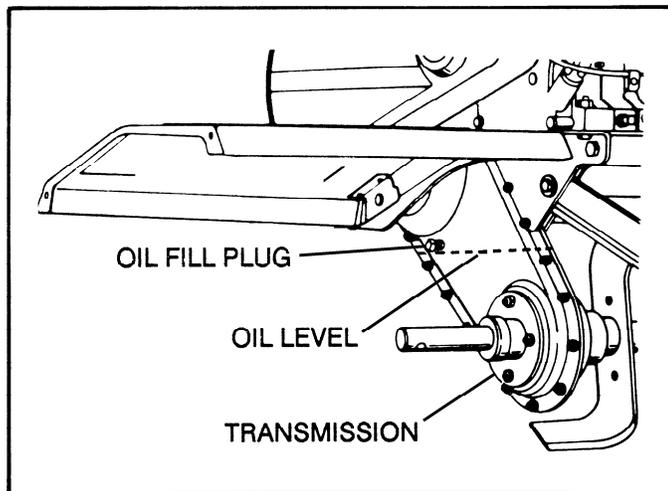


FIG. 10

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.

SERVICE AND ADJUSTMENTS



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.

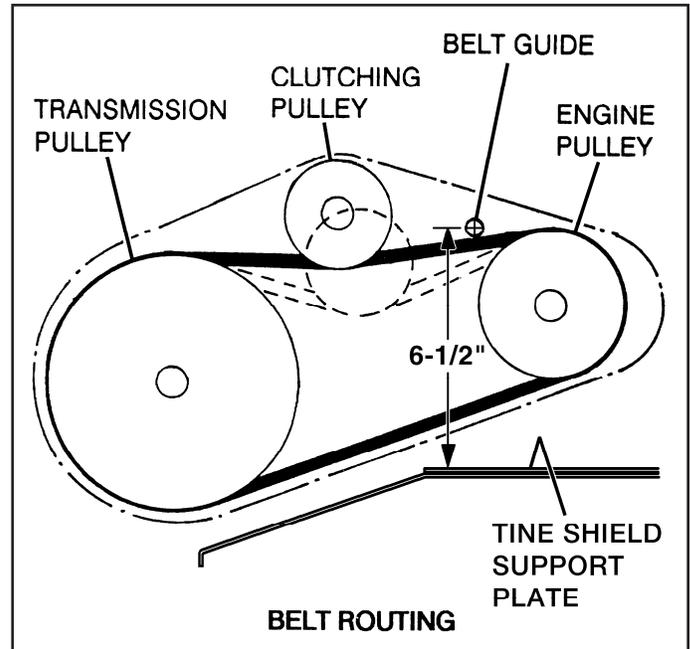


FIG. 12

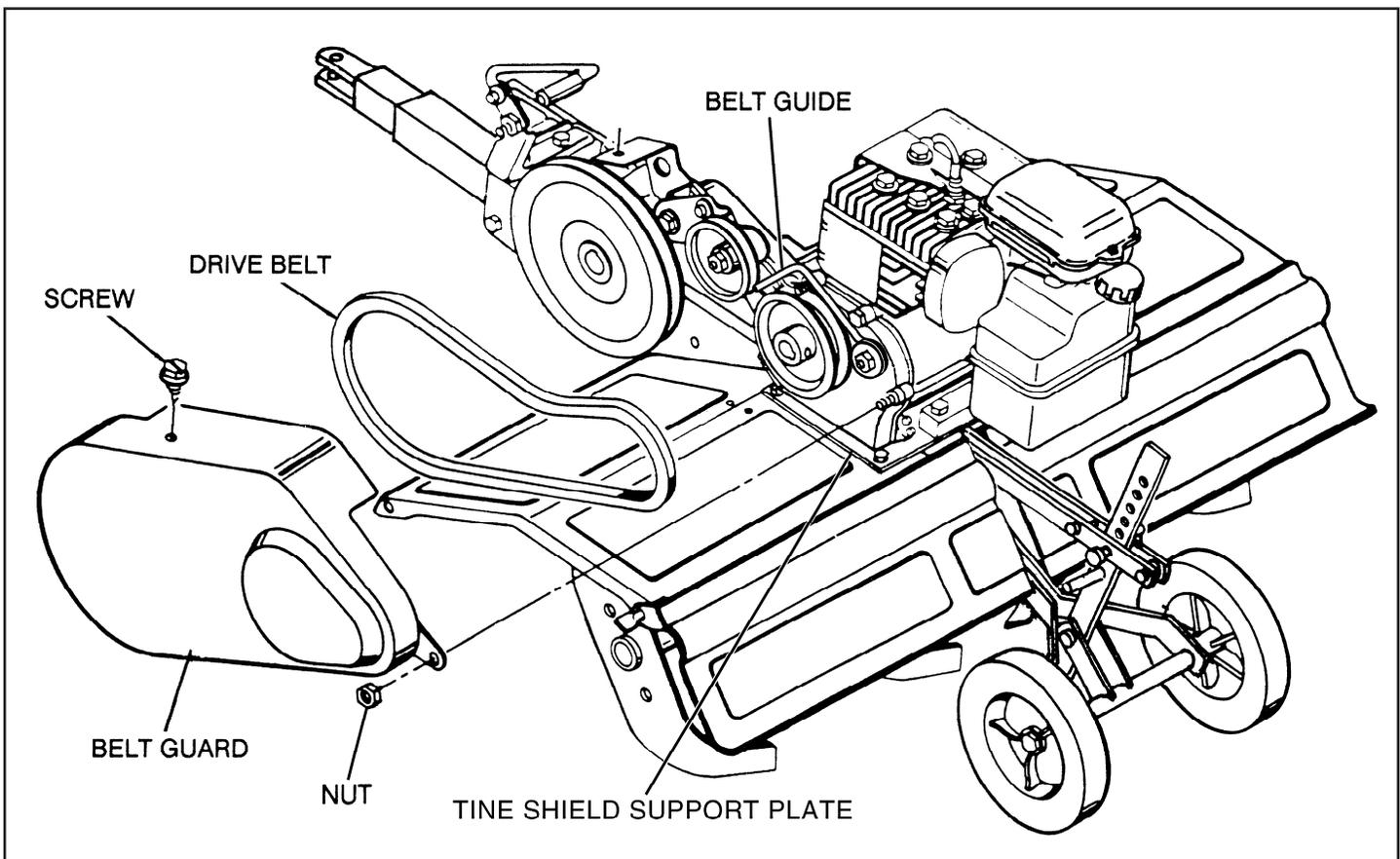


FIG. 11

SERVICE AND ADJUSTMENTS



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.

- 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.

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 Adjustments section of this manual).



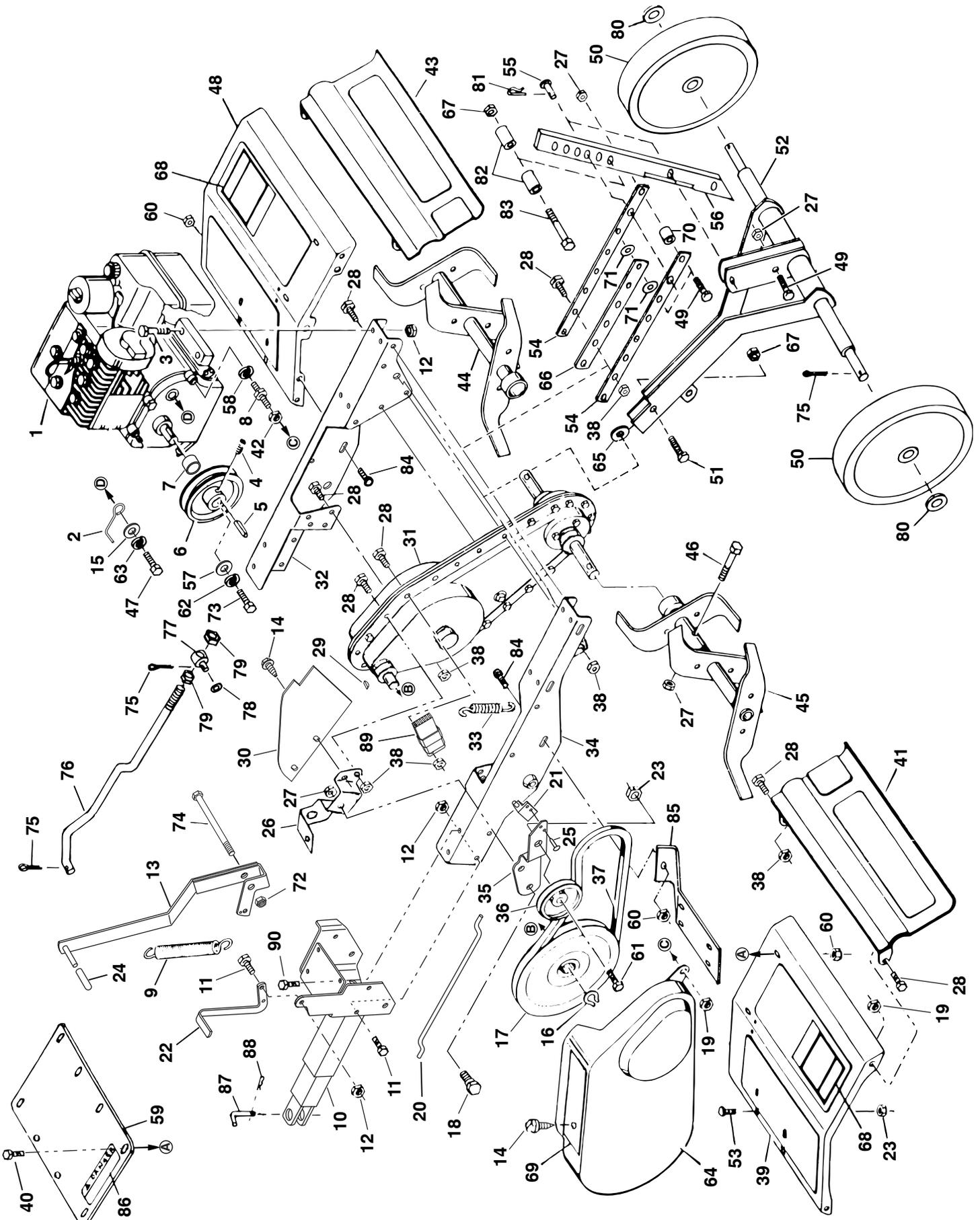
WARNING: Never cover Tiller while engine and exhaust areas are still warm.

TROUBLESHOOTING

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
Choke not set properly	Place Choke Control in "CHOKE" position
Throttle Control not set properly	Place Throttle Control in "FAST" position
Choked improperly, flooded Engine	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
Loose Spark Plug Wire	Make sure Spark Plug Wire is seated properly on Spark Plug
Spark Plug dirty or improper gap	Replace Spark Plug and adjust gap
Water in gasoline or old fuel	Drain Fuel Tank and Carburetor, use fresh fuel and replace Spark Plug
Clogged Fuel Tank	Remove and clean
ENGINE MISSES OR LACKS POWER	
Engine overloaded	Set Depth Stake and Wheels for shallower tilling
Partially plugged Air Cleaner	Remove and clean or replace
Dirty Air Screen	Clean Air Screen
Spark Plug dirty, improper gap or wrong type	Replace Spark Plug and adjust gap
Oil in gasoline	Drain and refill gas Tank and Carburetor
Clogged Fuel Tank	Remove and clean
Poor compression	Major Engine overhaul
ENGINE OVERHEATS	
Low oil level or dirty oil	Add or change oil
Dirty Air Screen	Clean Air Screen
Dirty Engine	Clean Cylinder Fins, Air Screen and Muffler area
Partially Plugged Muffler	Remove and clean Muffler
EXCESSIVE BOUNCE AND DIFFICULT HANDLING	
Wheels and Depth Stake incorrectly adjusted	Adjust Wheels and Depth Stake
Ground too dry and hard	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 engaged	Engage Tine Control
V-Belt off of pulleys	Check V-Belt
ENGINE RUNS WELL BUT LABORS WHEN TILLING	
Tilling too deep	Adjust Depth Stake
Throttle Control not properly adjusted	Check Throttle Control setting

REPAIR PARTS FOR MODEL 45-03081 5 HP TOW BEHIND TILLER

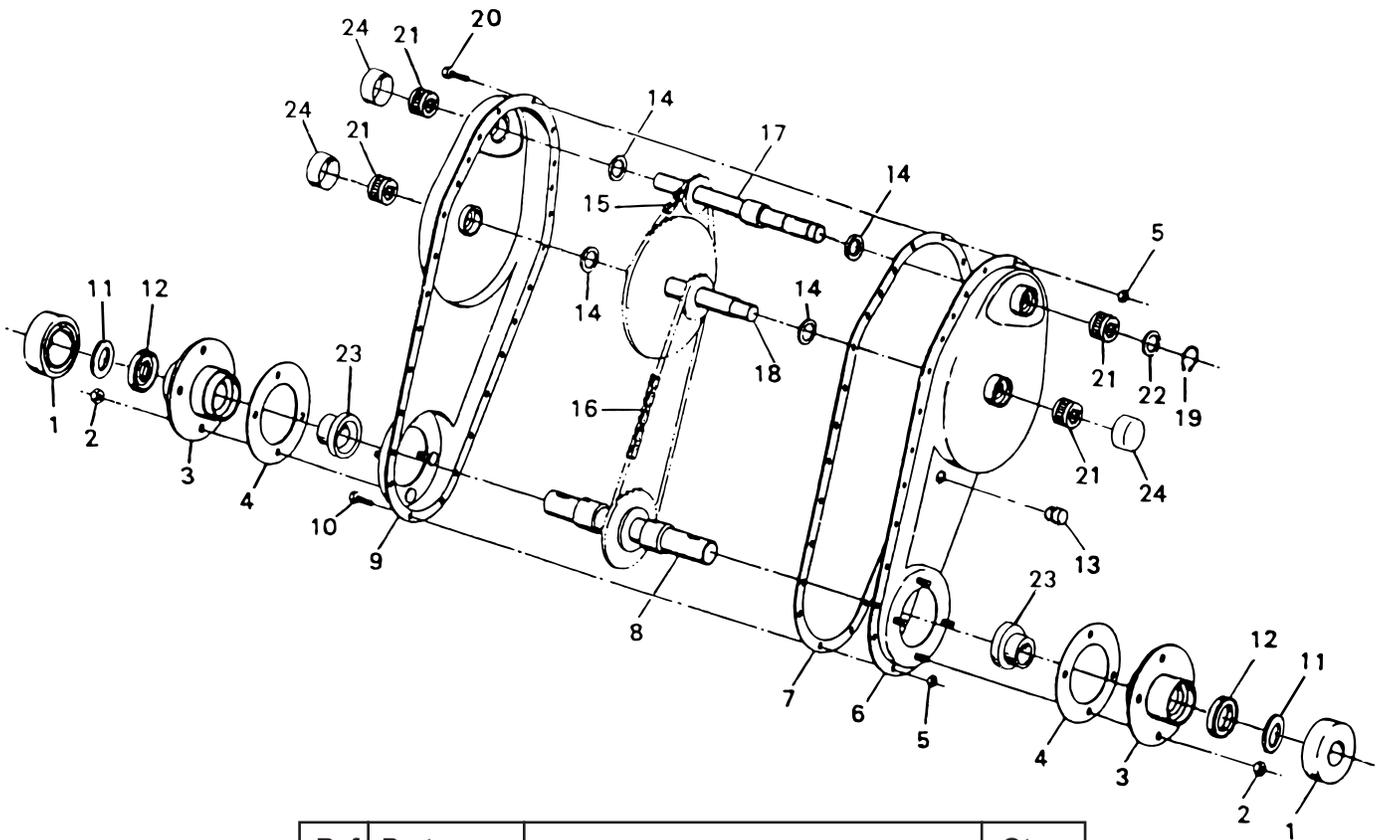


REPAIR PARTS FOR MODEL 45-03081 5 HP TOW BEHIND TILLER

Ref. No.	Part Number	Description	Qty. Req.	Ref. No.	Part Number	Description	Qty. Req.
1	1263020279-E1	Engine	1	46	43054	Bolt, 3/8-16 x 2"	4
2	48346	Guide - Belt	1	47	47600	Bolt, Hex 5/16-24 x 1"	1
3	43085	Bolt, 5/16-18 x 1-1/2" Hex Head	4	48	HA20935	Tine Shield Assembly - RH	1
4	HA115321	Screw, 5/16-18 x 5/16" Cup Pt. Set	1	49	43062	Bolt, 3/8-16 x 1-1/2" Hex Head	5
5	HA11154	Key, Square 1/4" x 2"	1	50	HA20918	Wheel	2
6	HA20176	Pulley	1	51	R74780828	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, 3/8-16 x 1" Carriage	8
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, 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 Nylock	10
16	HA20135	Ring, Retainer	1	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	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 5/18-11 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	5
34	24844	Chassis, Right	1	79	HA124934	Nut - 1/2-20 Hex Jam	2
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-Belt	1	82	HA7974	Spacer	2
38	43013	Nut, 1/4-20 Hex Lock	9	83	R74760884	Bolt, 1/2-13 x 5-1/2" Hex Head	1
39	HA20936	Tine Shield Assembly - LH	1	84	44326	Bolt, 5/16-18 x 1" Carriage	6
40	43182	Bolt, 5/16-18 x 3/4" Hex Hd.	4	85	HA20932	Bracket - Wheel Weight Support	2
41	HA20112	Rear Guard Assembly - LH	1	86	HA20940	Decal, Danger	1
42	43178	Nut, Hex 1/4-20	1	87	HA5236	Pin, Hitch	1
43	HA20113	Rear Guard Assembly - RH	1	88	714-0117	Pin - Hair Cotter 5/32"	1
44	HA20094	Tine & Hub Assembly - RH	1	89	64284	Module	1
45	HA20088	Tine & Hub Assembly - LH	1	90	HA23193	Screw, 3/8-16 x 1" Thd. Forming	4
				NP	48374	Owner's Manual	1

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REPAIR PARTS FOR MODEL 45-03081 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	1
7	HA20136	Gasket, Drive Housing	1
8	HA20127	Tine Shaft Assy	1
9	HA20121	Drive Housing & Bearing Assy - RH	1
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	1
14	HA20129	Washer, Thrust	4
15	HA20132	Chain Assembly #40	1
16	HA20128	Chain Assembly #50	1
17	HA20133	Input Shaft Assembly	1
18	HA20131	Idler Shaft Assembly	1
19	HA20135	Ring, Retainer 5/8" Dia. Shaft	1
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
24	HA20138	Cap, Bearing	3

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