

OWNER'S MANUAL

**8 H.P. 30" (76,2 cm)
SLEEVE HITCH
TILLER ATTACHMENT
MODEL NUMBER TS200ER**



American Yard Products Inc.

**S.C. HWY. 33, AND OLD CAMERON ROAD
P.O. BOX 1687
ORANGEBURG, SC 29116**



SAFETY RULES

Safe Operation Practices for Tiller Attachments.



TRAINING

- Read the operating and service instruction manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.
- Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

- Thoroughly inspect the area where the equipment is to be used and remove all foreign objects.
- Disengage all clutches and shift into neutral before starting the engine (motor).
- Do not operate the equipment without wearing adequate outer garments. Wear footwear that will improve footing on slippery surfaces.
- Handle fuel with care; it is highly flammable.
 - Use an approved fuel container.
 - Never add fuel to a running engine or hot engine.
 - Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - Replace gasoline cap securely and clean up spilled fuel before restarting.
- Never attempt to make any adjustments while the engine (motor) is running (except where specifically recommended by manufacturer).

OPERATION

- Do not put hands or feet near or under rotating parts.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic. Do not carry passengers.
- After striking a foreign object, stop the engine (motor), remove the wire from the spark plug, thoroughly inspect the tiller for any damage, and repair the damage before restarting and operating the tiller.
- Exercise caution to avoid slipping or falling.
- If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.

- Stop the engine (motor) when leaving the operating position, before unclogging the tines, and when making any repair, adjustments, and inspections.
- Take all possible precautions when leaving the machine unattended. Disengage the power take-off, lower the attachment, shift into neutral, stop the engine, and remove the key.
- Before cleaning, repairing, or inspecting, shut off the engine and make certain all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
- Do not run the engine indoors; exhaust fumes are dangerous.
- Never operate the tiller without proper guards, plates, or other safety protective devices in place.
- Keep children and pets away.
- Do not overload the machine capacity by attempting to till too deep at too fast a rate.
- Never operate the machine at high speeds on slippery surfaces. Look behind and use care when backing.
- Lift tiller out of the ground when turning corners.
- Do not put tractor in reverse gear while tiller is in the ground.
- Never allow bystanders near the unit.
- Use only attachments and accessories approved by the manufacturer of the tiller (such as wheel weights, counterweights, cabs, etc).
- Never operate the tiller without good visibility or light.

MAINTENANCE AND STORAGE

- Keep machine, attachments, and accessories in safe working condition.
- Check shear bolts, engine mounting bolts, and other bolts at frequent intervals for proper tightness to be sure the equipment is in safe working condition.
- Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, etc. Allow the engine to cool before storing in any enclosure.
- Always refer to the operator's guide instructions for important details if the tiller is to be stored for an extended period.

-IMPORTANT -

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



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

IMPORTANT: USED TO ALERT YOU THAT THERE IS A POSSIBILITY OF DAMAGING THIS EQUIPMENT.

NOTE: Gives essential information that will aid you to better understand, incorporate, or execute a particular set of instructions.

CONGRATULATIONS on your purchase of a new Tiller Attachment. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problems you cannot easily remedy, please contact your nearest authorized service facility, which has competent, well trained technicians and the proper tools to service or repair this unit.

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

MODEL
NUMBER **TS200ER**

SERIAL
NUMBER _____

DATE OF
PURCHASE _____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON THE MODEL PLATE ATTACHED TO THE TRANSMISSION.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

PRODUCT SPECIFICATIONS

HORSEPOWER:	8.0 HP
DISPLACEMENT:	19.43 cu. in. (318 cc)
GASOLINE CAPACITY:	1 Gallon (3.6L) Unleaded Regular
OIL : (CAPACITY: 24 oz. [0.7L])	SAE 30W (Above 32°F/0°C) 5W-30 (Below 32°F/0°C)
TRANSMISSION OIL : (CAPACITY: 40 oz. [1.2L])	SAE 30W
SPARK PLUG : (GAP: .030" [0.76mm])	Champion RJ19LM

CUSTOMER RESPONSIBILITIES

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

IMPORTANT: 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.

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ASSEMBLY

When R.H., (Right Hand) or L.H. (Left Hand) are used, it means from a position behind the steering wheel as if you were seated on the tractor seat and facing forward.

NOTE: Remove mower deck before mounting tiller attachment to tractor.

- Remove tiller and bag of parts from carton.

NOTE: If you are mounting your tiller to a sleeve hitch, you may discard the bag of parts. If you mount your new tiller to a manual 3-point hitch, you will need the bag of parts. See your sleeve/3-point hitch adapter Owner's Manual for instructions to install these parts.

LEVEL TILLER

Place tiller on level ground so that tractor can be backed up to it for assembly.



CAUTION: Tiller will be heavy when performing the following step.

Adjust tiller gauge wheels so that engine is level (Fig. 1).

- Remove retainer spring from drilled rivet.
- Remove rivet and adjust gauge wheels up or down as required to level tiller. Replace rivet and retainer spring.

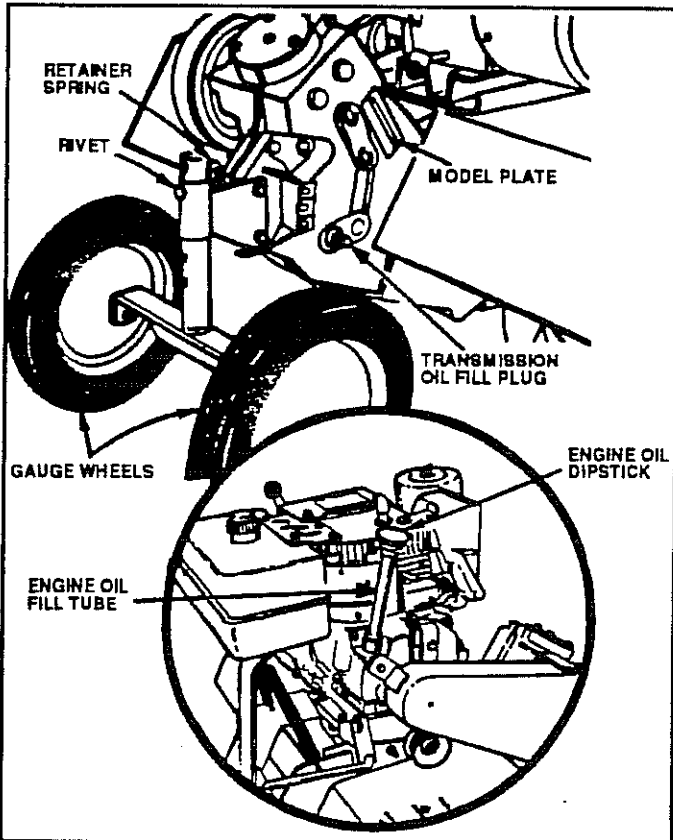


FIG. 1

ATTACHING TILLER TO TRACTOR

- Install one or more wheel weights to each rear wheel to insure good traction when operating. Tire chains can be used in place of, or in addition to, wheel weights.
- Install two front end weights to the front of the tractor. This will aid steering control.

- Check tire pressure in tires. See tractor Owner's Manual.
- Assemble sleeve hitch to tractor. See hitch Owner's Manual.
- Adjust stabilizer bolts so that ends are about flush with rear of hitch ball (Fig. 2 - Inset). Leave nuts loose.
- Lower hitch assembly and slide hitch yoke of tiller (Fig. 2 - Inset) over hitch tube of sleeve hitch so that the hitch pin holes line up.
- Insert hitch pin until it extends from bottom of hitch yoke (Fig. 2 - Inset). Insert retainer spring into hitch pin.
- Tighten both stabilizer bolts against the hitch yoke until there is no looseness at the hitch point. (The frame assembly does not swing sideways relative to the hitch ball (Fig. 2). Be sure the frame assembly is perpendicular (square) to the centerline (direction of travel) of the tractor. This can be determined by measuring the distance between the edge of tine shield (Fig. 2) and the back of the rear tires. This distance should be the same on the R.H. and L.H. sides within 1/2 inch. Securely tighten the nuts on the stabilizer bolts.

NOTE: The stabilizer bolts should be loosened before removing the tiller from the tractor. This will make it easier to remove the hitch pin and to line up hitch pin holes when installing another attachment. If tractor is to be used without a rear attachment, the stabilizer bolt should be secured by tightening the nuts (Fig. 2-Inset).

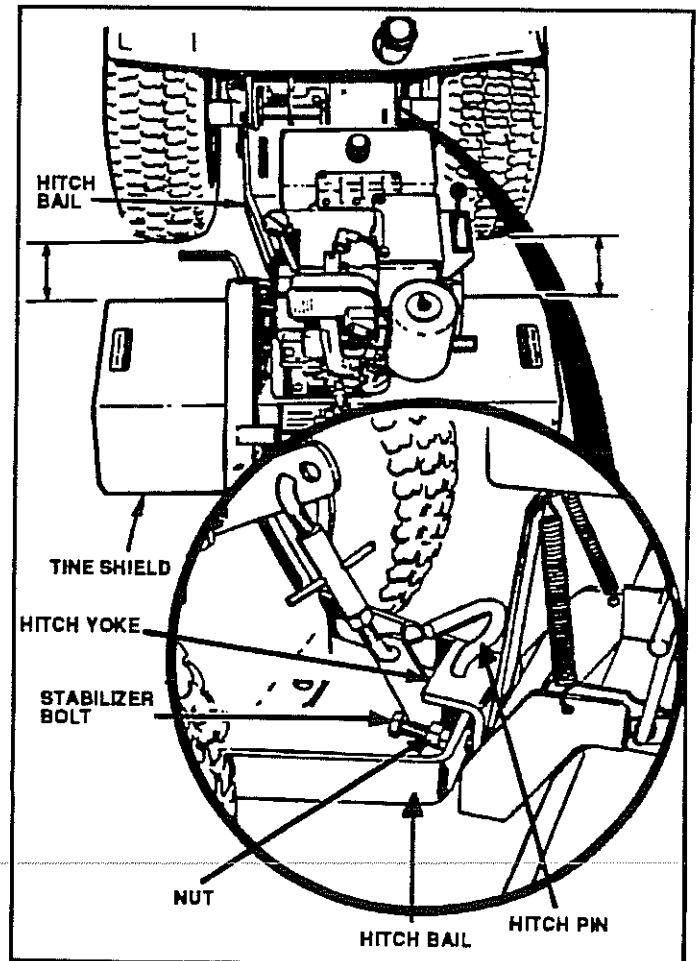


FIG. 2

OPERATION

IMPORTANT: READ THE "RULES FOR SAFE OPERATION" CAREFULLY BEFORE OPERATING YOUR TILLER ATTACHMENT.

HOW TO USE YOUR TILLER

STOPPING (See Fig. 3)

TINES

- Move tine clutch lever to "DISENGAGED" position.

ENGINE

- Move engine throttle lever to "STOP" position.
- Never use choke to stop engine.

TO USE CHOKE CONTROL (See Fig. 3-Inset)

Use choke control whenever you are starting a cold engine. Do not use choke to start a warm engine.

- To engage choke, slowly move lever to desired position.

TO ADJUST TILLING DEPTH (See Fig. 4 & 5)

The tilling depth is controlled by the gauge wheels and to some extent by the adjustable link sleeve. When deeper tilling is required, the gauge wheels must be raised. Wheels must be lowered for shallower tilling.

- Remove retainer spring from drilled rivet. Adjust gauge wheels up or down as desired and replace rivet and retainer spring.

NOTE: Each hole will raise or lower gauge wheels 1 inch.

- Tiller can be leveled from front to rear by turning adjustable link sleeve. The adjustable link sleeve also controls tilling depth. Shortening the adjustable link sleeve and lift links will decrease tilling depth and lengthening will increase tilling depth.

TO OPERATE TILLER (See Fig. 3)

- Select desired tilling depth.
- Raise tiller with tractor lift control and disengage tiller clutch control.
- Start tiller engine. See "BEFORE STARTING ENGINE" in this section of manual.
- Move tine clutch lever to "ENGAGED" position. Disengage and engage several times to check the clutching action of the belt.
- Slowly lower tiller with tractor lift control and begin tractor forward movement.
- Never operate tractor in reverse when tiller is in the ground.
- To stop tiller and engine, disengage tine clutch lever and move throttle lever to "STOP" position.

BEFORE STARTING THE ENGINE

CHECK TRANSMISSION OIL LEVEL

(See Fig. 1)

- The transmission has been filled at the factory.
- Check transmission oil with the tiller leveled on level ground.
- Remove oil fill plug. Oil should be level with the bottom of tiller plug hole. If necessary add oil until it is level with hole.

CHECK ENGINE OIL LEVEL (See Fig. 1)

The engine on your tiller has been shipped from the factory, already filled with summer weight oil.

- Check engine oil with engine leveled on level ground.
- Remove dipstick and wipe clean, replace, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life).

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F (0°C), USE FRESH CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

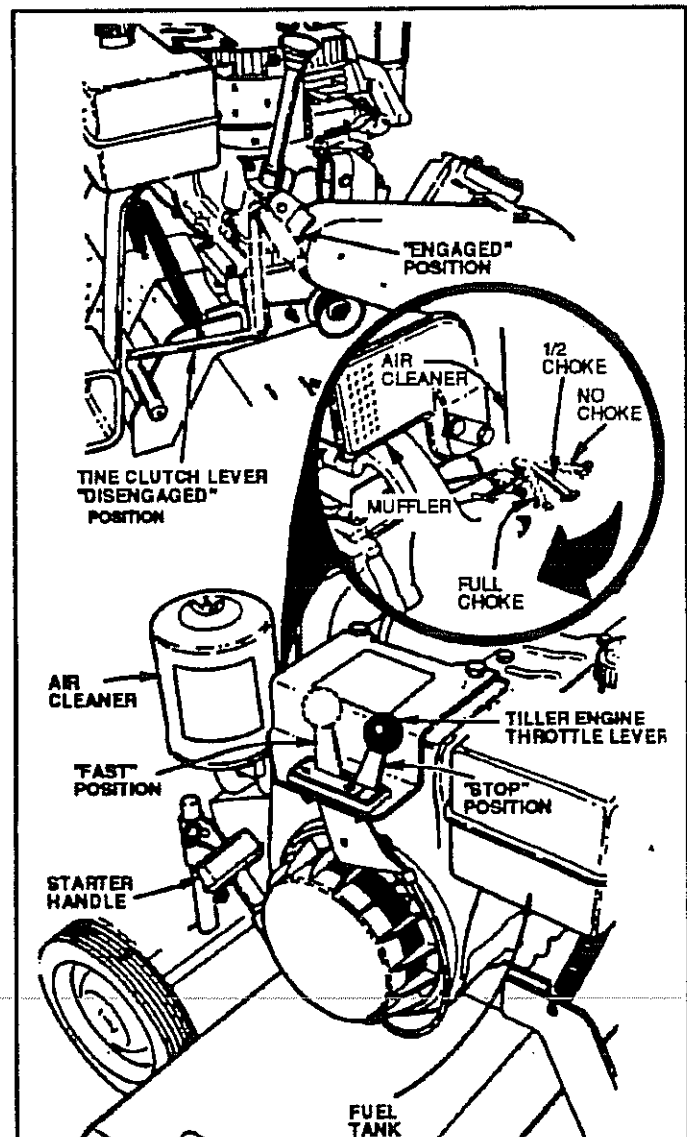


FIG. 3

OPERATION



CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

WARNING: Experience indicates that alcohol blended fuels called gasohol or using ethanol or methanol can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage sections of this manual for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

TO START TILLER ENGINE (See Fig. 3)



CAUTION: Keep the tine clutch lever in "DISENGAGED" position when starting engine.

- Make sure spark plug wire is connected to spark plug.
- Move choke control lever to "FULL CHOKE" position for cold engine start. For warm engine start do not use choke control.
- Move tiller engine throttle to midway between "FAST" and "SLOW" positions.
- Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
- Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle and let rope rewind slowly. Do not let starter handle snap back against starter.
- When engine starts, slowly move choke control on engine "1/2 CHOKE" position and then to "NO CHOKE" position as engine warms up.
- Move throttle control to desired running position.
- Allow engine to warm up for a few minutes before engaging tines.

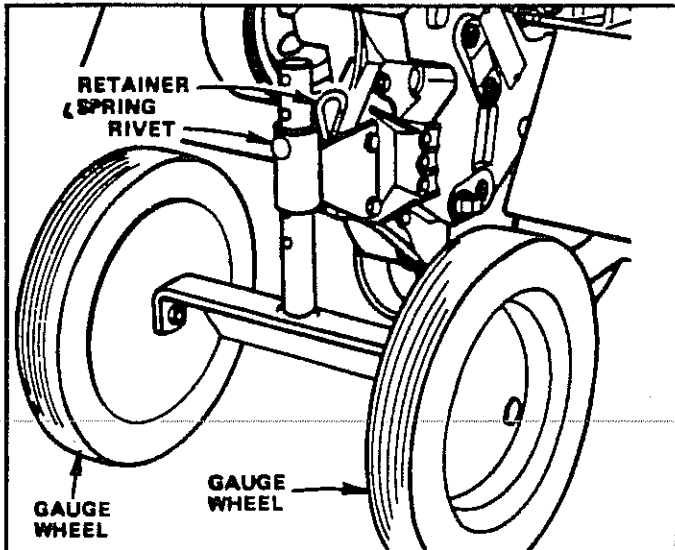


FIG. 4

NOTE: If at a high altitude (Above 3000 feet) or in cold temperatures (below 32°F), the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

TILLING

The most efficient tillage is obtained when tiller engine is operated at full throttle. The sound of 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 5 inches while in soft ground, tiller may penetrate to a depth of 5 inches in the first pass.

CULTIVATING

Set gauge wheels so that tiller will penetrate soil to a depth of 2 to 3 inches. Place rivet in the second or third hole from the bottom to attain this depth. The tiller engine should be run at full throttle except when cultivating small plants, a slower engine speed is necessary to prevent burying the plants.

OPERATION DO'S AND DON'TS

Always disengage tine clutch lever (Fig. 3) and stop engine when traveling to or from field (garden) or when not tilling.

Lift tiller out of the ground when turning corners.

Do not put tractor in reverse gear while tiller is in the ground.

Before leaving tractor seat, stop tractor, shift tractor to "NEUTRAL" position, throttle down and stop tractor engine, set parking brake, remove ignition key and then disengage tine clutch lever, throttle down and stop tiller engine, lower tiller to ground. Disconnect spark plug.

Disconnect spark plug wires before making any adjustments, repairs or to remove debris in tines.

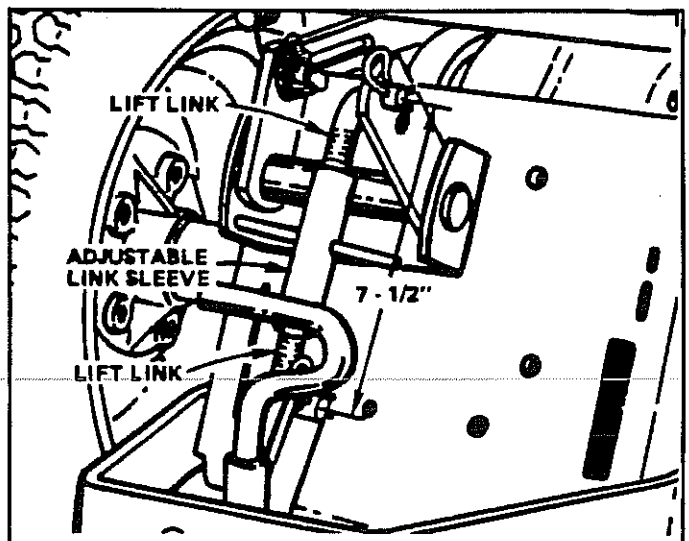


FIG. 5

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE								SERVICE DATES																	
	BEFORE EACH USE	FIRST 2 HOURS	EVERY 5 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	BEFORE STORAGE																		
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE																									
Check Engine Oil Level	✓		✓																						
Change Engine Oil		✓		✓ _{1,2}			✓																		
Oil Pivot points			✓				✓																		
Inspect Muffler/Spark Arrester					✓																				
Inspect Air Screen	✓																								
Clean Air Filter/Foam Pre-Cleaner				✓ ₂																					
Clean Engine Cylinder Fins			✓																						
Replace Air Filter/Paper Cartridge							✓																		
Replace Spark Plug							✓																		

1 - Change more often when operating under a heavy load or in high ambient temperatures.
 2 - Service more often when operating in dirty or dusty conditions.

GENERAL RECOMMENDATIONS

The warranty on this vehicle 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 blades 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 brake operation.
- Check tire pressure.
- Check for loose fasteners.

TILLER

TRANSMISSION LUBRICATION (See Fig. 6)

Check transmission oil level after first five (5) hours of operation and every ten (10) hours thereafter.

- Check transmission oil with the tiller leveled on level ground.
- Remove oil fill plug. Oil should be level with the bottom of filler plug hole. If necessary add SAE 30 motor oil or equivalent. SAE 5W-30 motor oil may be used in areas where temperature is consistently 32°F or lower.
- Tighten oil fill plug securely each time you check the oil level.

NOTE: It is not necessary to change the oil in tiller transmission. If for any reason, it must be changed, capacity is 1-1/4 quarts.

CUSTOMER RESPONSIBILITIES

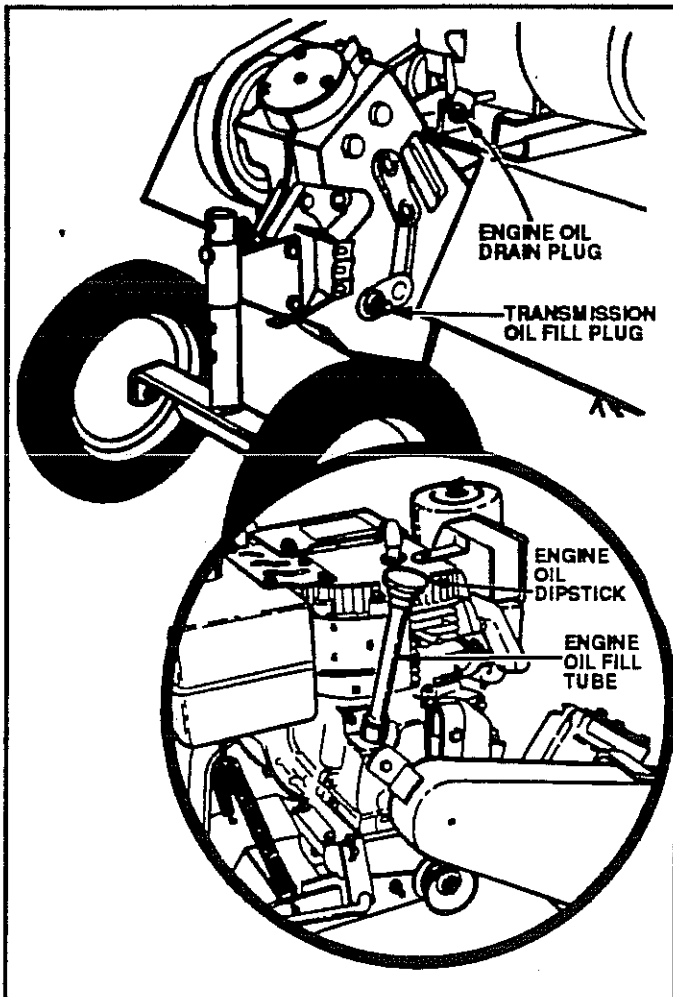


FIG. 6

ENGINE

LUBRICATION

Use only high quality detergent oil rated with API service classification SG. Select the oil's SAE viscosity grade according to your expected temperature.

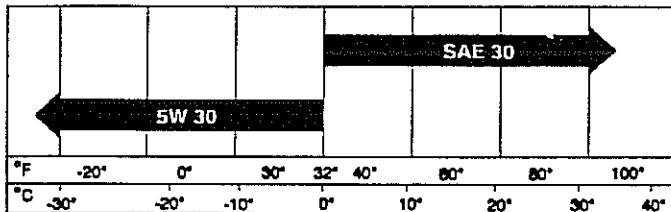


FIG. 7

NOTE: Although multi-viscosity oils (5W-30, 10W-30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F (0°C). Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after the first two hours of operation and every 25 hours thereafter or at least once a year if the tiller is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Add SAE 30 motor oil or equivalent. Tighten oil filler plug securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Figs. 6 and 7)

Determine temperature range expected before oil change. All oil must meet API service classification SG.

- Be sure tiller engine is level.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove drain plug.
- Tip tiller forward to drain oil.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Remove oil filler plug. Be careful not to allow dirt to enter the engine.
- Refill engine with oil. See "CHECK ENGINE OIL LEVEL" in the Operation section of this manual.

AIR FILTER FOAM PRE-CLEANER (See Fig. 8)

Your engine will not run properly and may be damaged by using a dirty air filter. Remove cartridge every 25 hours and tap to clean. Replace paper cartridge once a year or after every 100 hours of operation, more often if used in very dusty, dirty conditions.

- Remove wing nut and cover.
- Remove foam pre-cleaner element by sliding it off of the paper cartridge.
- Wash foam pre-cleaner in liquid detergent and water.
- Wrap foam pre-cleaner in cloth and squeeze dry.
- Lightly coat foam pre-cleaner with clean engine oil. Squeeze in towel to remove excess oil. Do not saturate.
- Install foam pre-cleaner over paper cartridge.
- Reassemble cover and tighten wing nut securely.

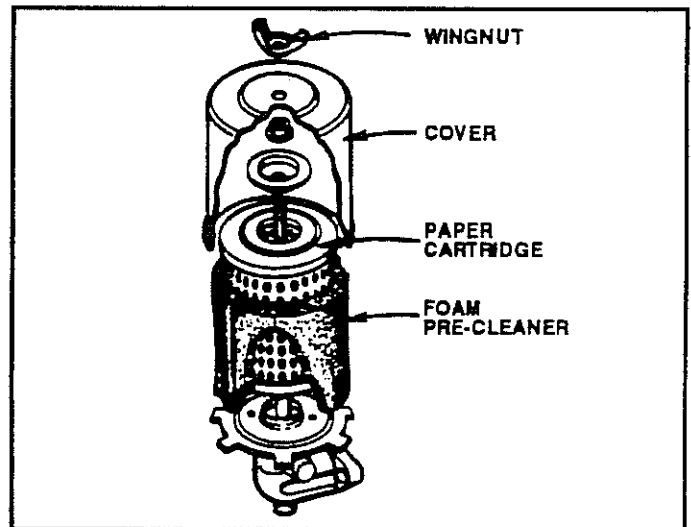


FIG. 8

CUSTOMER RESPONSIBILITIES

COOLING SYSTEM (See Fig. 9)

Your engine is air cooled. For proper engine performance and long life keep your engine clean.

- Clean air screen frequently using a stiff bristled brush.
- Remove blower housing and clean as necessary.
- Keep cylinder fins free of dirt and chaff.

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.

SPARK PLUG

Replace spark plugs at the beginning of each tilling season or after every 50 hours of use, whichever comes first. Spark plug type and gap setting is shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

CLEANING

- Clean engine, 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.

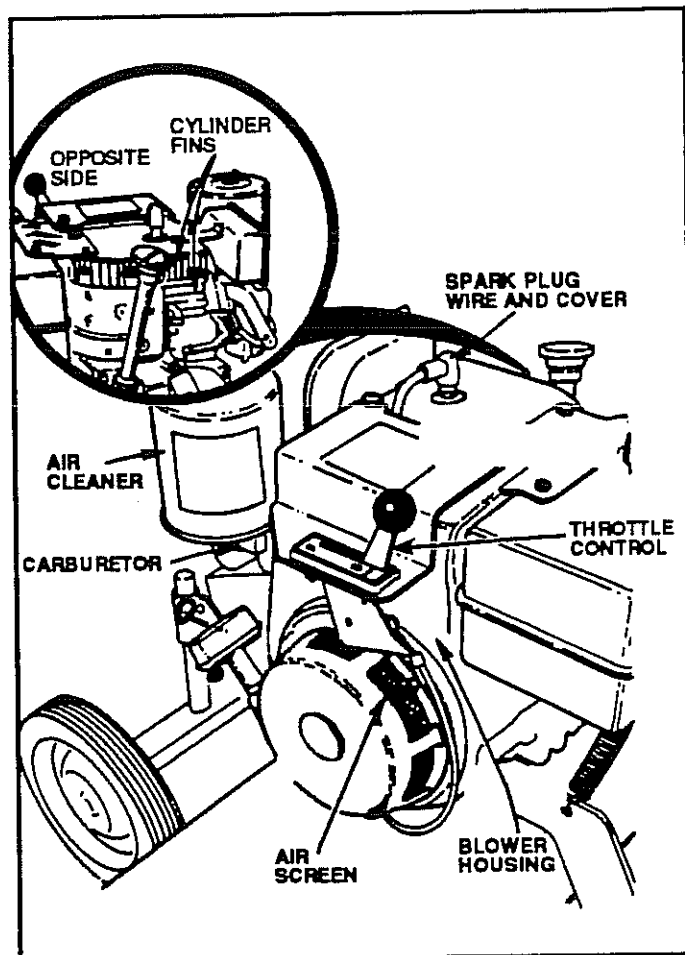


FIG. 9

SERVICE AND ADJUSTMENTS



CAUTION: Disconnect spark plug wires from spark plug and place wire where it cannot come into contact with plug.

TILLER

TO ADJUST GAUGE WHEELS

See "TO ADJUST TILLING DEPTH" in Operation section of this manual.

TO ADJUST BELT (See Fig. 10)

The clutch is a belt-tightener type. Belt should be just tight enough to prevent slipping. Over-tightening will reduce belt life.

- To tighten belt, remove retainer spring securing belt tightener link to clutch lever and arm.
- Standing in front of tiller, turn link in a counterclockwise direction one turn at a time, until belt no longer slips.
- After initial adjustment, a force of approximately 10 lbs. at the end of the lever should engage the clutch. This would be heavy thumb pressure.

TO REPLACE BELT (See Fig. 10)

- Remove the three bolts holding belt guard to tiller. Remove guard.
- Remove old belt.
- Install new belt so that lower side of belt is above idler as shown.
- Adjust belt (see "TO ADJUST BELT" above).
- Replace belt guard. Make sure all moving parts will clear belt guard.

NOTE: If it should become necessary to remove the engine sheave, be sure that it is reinstalled so that the set screw end is toward the outside.

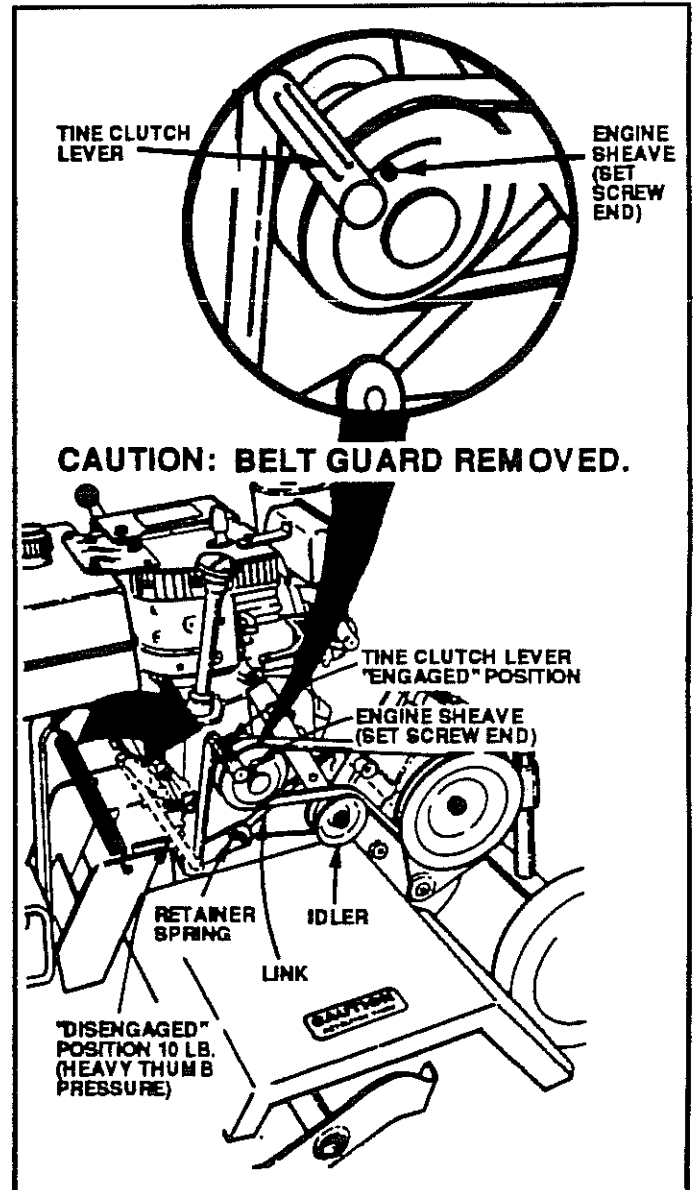


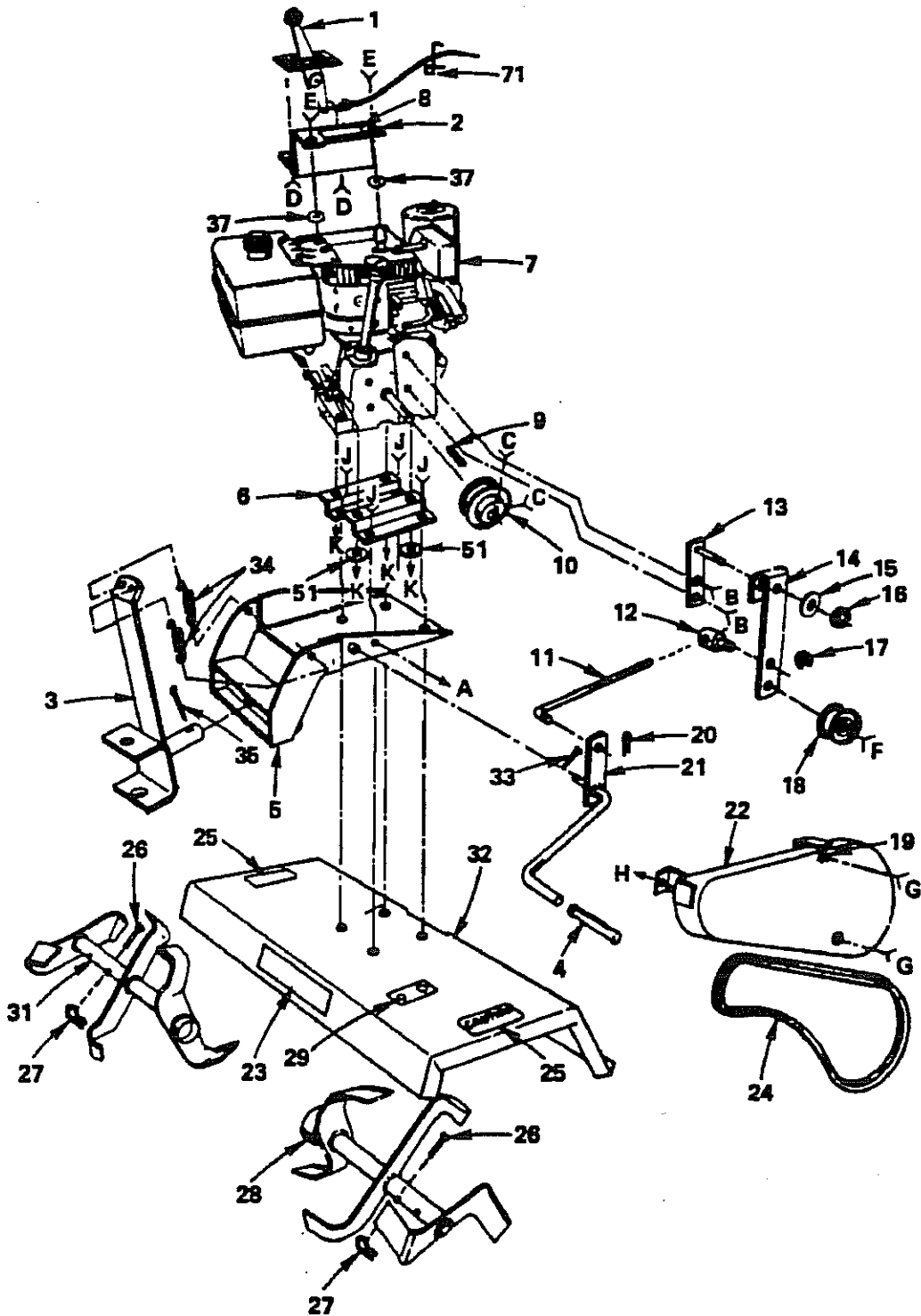
FIG. 10

SERVICE NOTES

REPAIR PARTS

8 HP TILLER ATTACHMENT - - MODEL NUMBER TS200ER

ENGINE AND TINES



A	B	C	D	E	F	G	H	J	K
43	48	48	69	38	67	42	48	49	40

REPAIR PARTS

8 HP TILLER ATTACHMENT - - MODEL NUMBER TS200ER

ENGINE AND TINES

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	124533X	Control Throttle	34	8905R	Spring
2	6924J	Bracket, Throttle Control	35	76020824	Cotter Pin 1/4 x 1-1/2
3	677A860	Hitch Yoke Assembly	36	74760516	* Bolt, Hex 5/16-18 x 1 Gr. 2
4	4379H	Grip, Handle	37	19131311	Washer 13/32 x 13/16 x 11 Ga.
5	677A855	Hitch Channel Assembly	38	10040600	* Washer Lock, Hvy. Hel. Spring
6	6922R	Plate, Adapter	39	73220600	* Nut, Hex 3/8-16 UNC
7	-----	Engine 8 H.P., Tecumseh	40	74760524	* Bolt, Hex 5/16-18 x 1-1/2 Gr. 2
8	104867X	Decal, Instruction, Engine	41	73220500	* Nut, Hex 5/16-18 UNC
9	4914H	Square Key 1/4 x 1-1/4	42	15760512	Hex Bolt with Sems Ext. Washer Lock 5/16-18 UNC x 3/4
10	8249R	Engine Sheave	43	74760416	* Hex Bolt 1/4-20 x 1
11	6652H	Belt Tightener Link	44	10040400	* Washer Lock 1/4
12	6656H	Adjusting Pin	45	73220400	* Hex Nut 1/4-20 UNC
13	624A12	Idler Support Plate and Pivot	46	74770512	* Hex Bolt 5/16-24 x 3/4
14	2360J	Idler Arm	47	10040500	* Washer Lock 5/16
15	19151116	Washer 15/32 x 11/16 x 16 Ga. (0 - 2 as required)	48	23200506	Hex Socket Set Screw 5/16-18x3/8
16	12000015	* E-Ring	49	74760624	* Hex Bolt 3/8-16 x 1-1/2
17	6683H	E-Ring	50	73350600	* Hex Jam Nut 3/8-16 UNC
18	4933H	Idler Pulley	51	19111116	* Washer 11/32 x 11/16 x 16 Ga.
19	19131414	Washer 13/32 x 7/8 x 14 Ga.	52	11050500	Washer Lock External Tooth 5/16
20	4497H	Clip, Hairpin	67	72250614	Bolt, Carriage 3/8-16 x 1-3/4
21	626A430	Lever and Arm	69	71091008	Screw
22	634A726	Belt Guard and Supports	70	73731000	Nut, Keps #10-24 UNC
23	125702X	Decal, Tine Shield	71	4171R	Clip - Insulated
24	102655X	V-Belt	72	104304X	Decal, Throttle
25	1989J	Decal, Caution	--	136650	Owner's Manual, English
26	4929H	Drilled Pan Hd. Rivet 3/8 x 1-3/4	--	136651	Owner's Manual, French
27	3146R	Clip, Hairpin			
28	626A401	Tine Weldment, L.H.			
29	1986J	Decal, On/Off			
31	626A402	Tine Weldment, R.H.			
32	8224R	Tine Shield			
33	76020516	Cotter Pin 5/32 x 1			

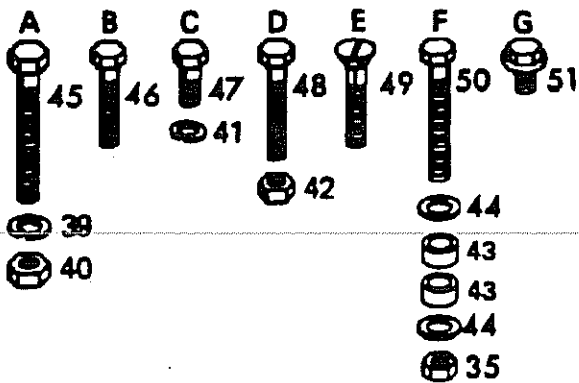
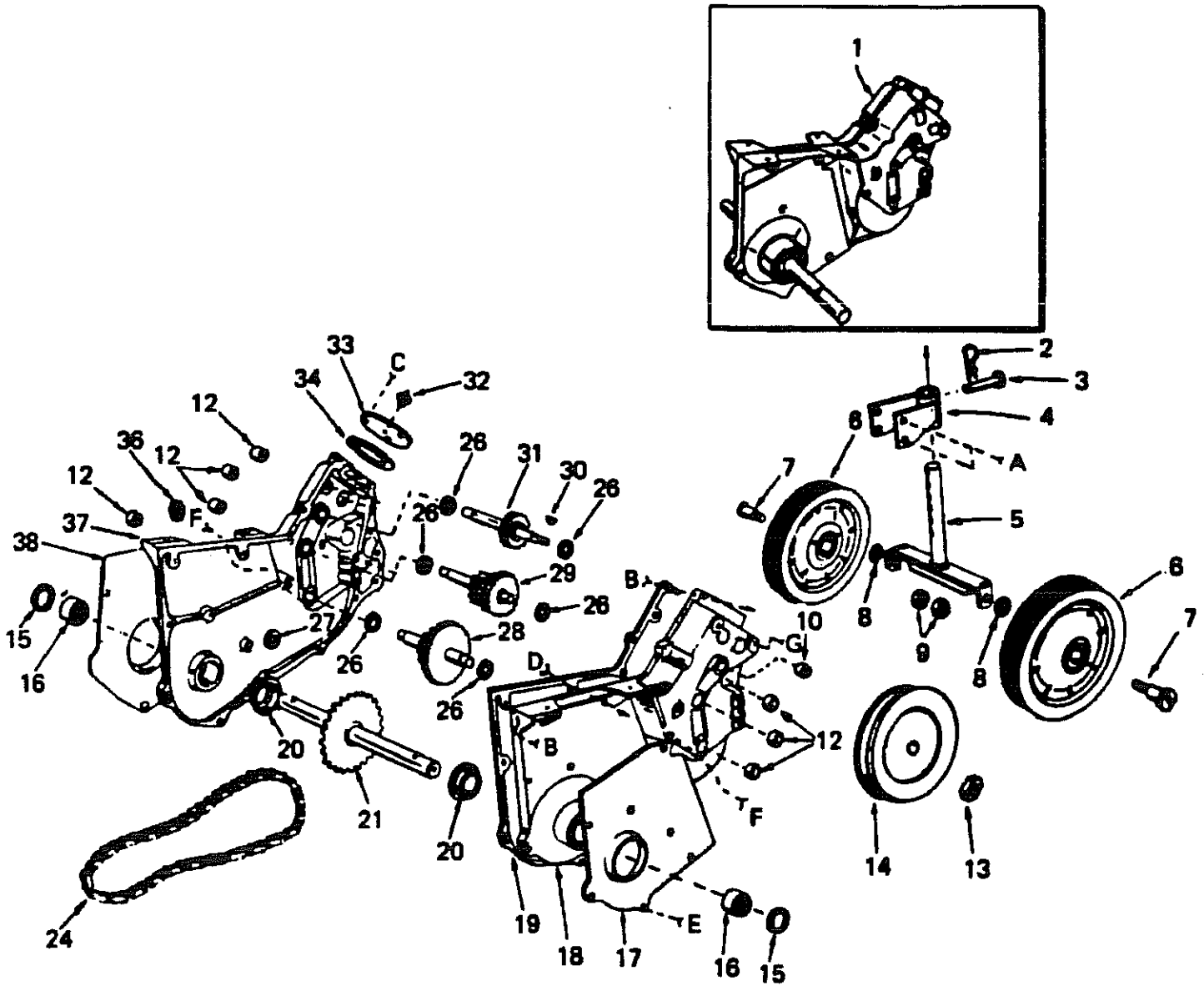
*STANDARD HARDWARE--PURCHASE LOCALLY

NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm.

REPAIR PARTS

8 HP TILLER ATTACHMENT - - MODEL NUMBER TS200ER

TRANSMISSION AND GAUGE WHEELS



REPAIR PARTS

8 HP TILLER ATTACHMENT - - MODEL NUMBER TS200ER

TRANSMISSION AND GAUGE WHEELS

KEY PART NO.	PART NO.	DESCRIPTION	KEY PART NO.	PART NO.	DESCRIPTION
1	634A562	Transmission	33	6672H	Gear Shift Cover
2	9135R	Retainer Spring	34	4913H	Gasket
3	4929H	Drilled Pan Head Rivet 3/8 x 1-3/4	35	1685H	Locknut 5/16-18 UNC
4	634A61	Gauge Wheel Sleeve and Brackets	36	13060400	Pipe Plug 1/2-14 N.P.T.
5	634A559	Gauge Wheel Adjusting Shaft and Bracket	37	634A554	Gear Case and Bearings R.H. Half (Inc. Key No's. 12, 16 & 20)
6	2557J	Wheel	38	4878H1	Gear Case Shield R.H.
7	4898H	Shoulder Bolt	39	10040600	* Washer Lock 3/8
8	19131311	Washer 13/32 x 13/16 x 11 Ga.	40	73220600	* Hex Nut 3/8-16 UNC
9	73560600	Locknut 3/8-16 UNC Nylock	41	10040500	* Washer Lock, Hvy. Hel. Spring
10	5020J	Needle Bearing	42	73220500	* Hex Nut 5/16-18 UNC
12	4895H	Needle Bearing	43	7850H	Spacer
13	9204H	Locknut 1/2-20 UNF	44	19111116	* Washer 11/32 x 11/16 x 16 Ga.
14	4932H	Input Sheave	45	74760636	* Hex Bolt 3/8-16 x 2-1/4
15	4910H	Oil Seal	46	17860524	Hex Hd. Roll-Lok Thd. Forming Screw 5/16-18 x 1-1/2
16	3039R	Needle Bearing	47	74760512	* Hex Bolt 5/16-18 x 3/4
17	4877H1	Gear Case Shield L.H.	48	74760532	* Hex Bolt 5/16-18 x 2
18	634A553	Gear Case and Bearings L.H. Half (Inc. Key No's. 10,12,16 & 20)	49	20000524	Flat Hd. Slotted Roll-Lok Thd. Forming Screws 5/16-18 x 3/4
19	2601R	Gasket	50	74780596	Hex Bolt 5/16-18 x 6 Gr. 5
20	4870H	Thrust Cap	51	15760512	Screw Mach. Hex Hd. 5/16-18 x 3/4
21	634A555	Tine Shaft and Sprocket			
24	2600R	Roller Chain			
26	1370H	Thrust Washer			
27	4912H	Gasket			
28	634A59	2nd Reduction Shaft and Gears			
29	634A58	1st Reduction Shaft and Gears			
30	9858M1	Woodruff Key 3/16 x 5/8			
31	634A57	Input Shaft and Pinion			
32	5855H	Relief Valve			

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