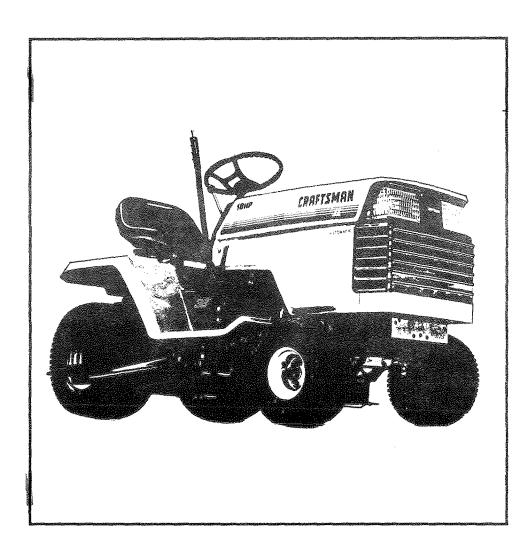


MODEL NO. 917.254740

Caution:
Read and follow
all Safety Rules
and Instructions
Before Operating
This Equipment



# CRAFTSMAN® 18.0 HP TRACTOR ELECTRIC START 38" MOWER DECK AUTOMATIC TRANSAXLE

- Assembly
- Operation
- Maintenance
- Service and Adjustment
- Repair Parts



LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAU-TIONS. IT MEANS - ATTENTION! BE-COME ALERT! YOUR SAFETY IS IN-VOLVED. CAUTION: LOOK FOR THIS WORD TO POINT OF IMPORTANT EQUIPMENT PRECAUTION

NOTE: LOOK FOR THIS WORD TO POINT OUT II PORTANT INFORMATION ABOUT THE OPERATIC AND PERFORMANCE OF YOUR TRACTOR.



## **RULES FOR SAFE OPERATION**

WARNING: 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 an laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. (See REPAIR PARTS for panumber identification).

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other States may have simil laws. Federal laws apply on federal lands.

- Know the controls and how to stop quickly. READ THIS OWNER'S MANUAL and instructions furnished with attachments.
- Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- Do not carry passengers. Do not mow when children and others are around.
- Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
- Keep your eyes and mind on your tractor, mower, and the area being cut. Do not let other interests distract you.
- Do not attempt to operate your tractor or mower when not in the driver's seat.
- Always get on or off your tractor from the operator's left hand side.
- Clear the work area of objects (wire, rocks, etc.) which might be picked up and thrown.
- Disengage all attachment clutches before attempting to start the engine.
- Disengage power to attachments and stop the engine before leaving the operator's position.
- Disengage power to mower, stop the engine, and disconnect spark plug wire(s) from spark plug(s) before cleaning, making an adjustment, or repair. Be careful to avoid touching hot muffler or engine components.
- 12. Disengage power to attachments when transporting or not in use
- 13. Take all possible precautions when leaving the vehicle unattended. Disengage the power take-off, lower the attachments, shift into neutral, set the parking brake, stop the engine, and remove the key.
- 14. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of slopes (not greater than 15°), never across the face. Refer to page 55.
- Reduce speed on slopes and make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
- While going up or down slopes, place gear shift control lever in 1st gear position to negotiate the slope without stopping.
- Never mow in wet or slippery grass, when traction is unsure, or at a speed which could cause a skid.
- Stay alert for holes in the terrain and other hidden hazards. Keep away from drop-offs.
- Do not drive too close to creeks, ditches, and public highways.
- Exercise special care when moving around fixed objects in order to prevent the blades from striking them. Never deliberately run tractor or mover into or over any foreign objects.
- 21. Never shift gears until tractor comes to a stop.
- Never place hands or feet under the mower, in discharge chute, or near any moving parts while tractor or mower is running. Always keep clear of discharge chute.
- 23. Use care when pulling loads or using heavy equipment.
  - a. Use only approved drawbar hitch points.
  - b. Limit loads to those you can safely control.

- c. Do not turn sharply. Use care when backing.
- Use counterweight or wheel weights when suggested owner's manual.
- 24. Watch out for traffic when crossing or near roadways.
- When using any attachments, never direct discharge material toward bystanders nor allow anyone near the vhicle while in operation.
- 26. Handle gasoline with care it is highly flammable.
  - Use approved gasoline containers.
  - b. Never remove the fuel cap of the fuel tank or ac gasoline to a running or hot engine or an engine that he not been allowed to cool for several minutes after run ning. Never fill tank indoors. Always clean up spille gasoline.
  - Open doors if the engine is run in the garage exhaufumes are dangerous. Do not run the engine indoors.
- Keep the vehicle and attachments in good operating cond tion, and keep safety devices in place and working.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 29. Never store the equipment with gasoline in the tank inside building where fumes may reach an open flame or spark Allow the engine to cool before storing in any enclosure.
- To reduce fire hazard, keep the engine free of grass, leaves or excessive grease. Do not clean product while engine i running.
- Except for adjustments, DO NOT operate engine if air cleans or cover directly over carburetor air intake is removed Removal of such part could create a fire hazard.
- Do not operate without a muffler, or tamper with exhaus system. Damaged mufflers or spark arresters could create fire hazard. Inspect periodically and replace if necessary.
- 33. The vehicle and attachments should be stopped and in spected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
- Do not change the engine governor settings or overspeed the engine; severe damage or injury may result.
- 35. When using the vehicle with mower, proceed as follows:
  - a. Mow only in daylight or in good artificial light.
    - b. Shut the engine off when unclogging chute.
    - Check the blade mounting bolts for proper tightness a frequent intervals.
- Do not operate the mower without the entire grass catcher on mowers so equipped, or the deflector shield in place.
- Disengage power to mower before backing up. Do not mow in reverse unless absolutely necessary and then only after careful observation of the entire area behind the mower.
- 38. Under normal usage the grass catcher bag material is subject to deterioration and wear. It should be checked frequently for bag replacement. Replacement bags should be checked to ensure compliance with the original manufacturer's recommendations or specifications.

CONGRATULATIONS on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance. Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Department. We have competent, well-trained technicians and the proper tools to service or repair this unit

#### MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. See the nearest Sears store or service center for details.

SERIAL NUMBER
DATE OF PURCHASE
THE SERIAL NUMBER WILL BE FOUND ON THE MODEL PLATE UNDER THE SEAT.
YOU SHOULD RECORD THESE NUMBERS AND KEEP FOR FUTURE REFERENCE.

#### CUSTOMER RESPONSIBILITIES

Read and retain this manual. Study and observe the safety rules. Always use care when using your tractor. Always keep your tractor and mower clean. Follow a regular schedule in maintaining, caring for, and using your tractor. A well cared for tractor will run better and last longer.

#### **ATTACHMENTS**

This unit can use many attachments now available at your Sears store. It can use a tiller, but cannot use other ground engaging attachments such as a plow, harrow, or cultivator. See page 54 for a list of available attachments.

# LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For two years from date of purchase, when this riding equipment is maintained, lubricated, and tuned up according to the operating and maintenance instruction in the owner's manual, Sears will repair free of charge any defect in material or workmanship in this electric start riding equipment.

This warranty excludes blade(s), blade adapter(s), spark plug(s), air cleaner and belt(s), which are expendable and become worn during normal use.

This warranty does not cover:

- Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass); and
- repairs necessary because of operator abuse or negligence, including the failure to maintain the equipment according to instructions contained in the owner's manual; and
- riding equipment used for commercial or rental purposes.

#### **FULL 90 DAY WARRANTY ON BATTERY**

For 90 days from the date of purchase, if any battery included with this riding 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 BY CONTACTING THE NEAREST SEARS SERVICE CENTER DEPARTMENT IN THE UNITED STATES. This warranty applies only while this product is in use in the United States.

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

SEARS, ROEBUCK and CO., D/731CR-W, Sears Tower, Chicago, IL 60684



DO NOT OVERLOAD TRACTOR BY TOWING WEIGHTS GREATER THAN 150 POUNDS (68 KG).

# MDEX

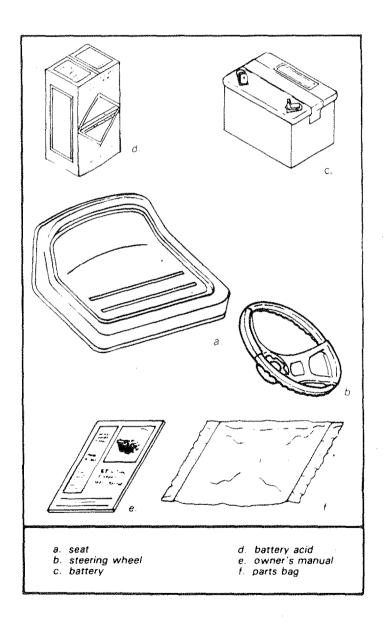
A	F	
Adjustments:	Filter:	Tractor Operation on Hills 15
Brake16	Air Cleaner18	•
Carburetor21	Fuel19	
Clutch25	Fuel:	Options:
Mower	Type13	Attachments54
Front-To-Rear23	Storage25	Spark Arrester2,34
Side-To-Side23	Fuse22	
Throttle Control Cable21	F TATAL COTTAGE CONTAGE OF CONTAG	p
Air Cleaner18	Н	Parking Brake12
	Hood Removal/Installation23	Parts Bag5-6
Air Screen, Engine19	HOOG Hemova/installation23	Parts, Replacement/Repair30-51
Assembly5-11	1	rans, replacement/hepail00-31
Attachments54	L seeding Mouse Dook 22	R
	Leveling Mower Deck23	
8	Lubrication:	Repair and Adjustments20-26
Battery:	Chart20	Blade24
Charging	Tractor Pivot Points19	Carburetor21
Cleaning18		Fuse22
Installation8	M	Hood Removal/Installation23
Levels18	Maintenance16-20	Motion Drive Belt
Preparation7	Air Cleaner18	Removal/Replacement22
Starting with Weak Battery21	Foam Pre-cleaner18	Mower Drive Belt
Storage25	Air Screen, Engine19	Removal/Replacement11
Terminals 18	Battery18	Mower Adjustment
Belt:	Blade Sharpening17	Front- to-Rear23
Motion Drive	Brake Adjustment16	Side-to-Side23
Removal/Replacement22	Engine Oil16	Mower Removal23
Mower Drive	Fuel Filter19	Tire Care25
Removal/Replacement11	Lubrication Chart20	Repair Parts30-51
Blade:	Pump Fluid17	•
Sharpening17	Spark Plugs19	\$
Replacement24	Tire Care8,17,25	Safety Rules2
Brake Adjustment16	Transmission17	Seat7
	Mower:	Service Record26
С	Adjustment, Front-to-Rear 23	Slope Guide Sheet55
Carburetor Adjustment21	Adjustment, Side-to-Side 23	Spark Plugs19
Clutch Adjustment25	Blade Sharpening17	Speed Control Chart14
Controls, Tractor12	Blade Replacement24	Starting the Engine13
Cutting Level, Mower11,23	Cutting Level11,23	Steering Wheel8
Outting Level, MOMEN 11,20	Installation10	Stopping the Tractor13
E	Operation14	Storage25
	Removal23	0101age
Engine:		*
Air Screen19	Mowing Tips15	Throttle Control Cable
Oil Change18	Muffler19	
Oil Level16	Spark Arrester2,34	Adjustment21
Oil Type16	•	Tires8,17,25
Preparation13	0	Trouble Shooting Chart27-28
Repair Parts46-51	Oil:	Transaxle:
Starting13	Cold Weather Conditions 16	Repair Parts42-45
Storage25	Engine16	Transporting14
	Storage25	
	Operation 12-15	
	Operating Your Mower14	W
	Operating Your Tractor14	Warranty3
	Starting the Engine13	Wiring Schematic29
	Stopping Your Tractor13	

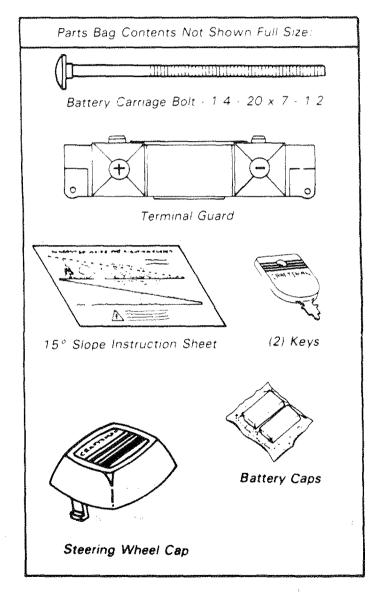
To assemble and adjust your tractor you will need:

(2) 7/16" wrenches Tire Pressure Gauge (1) 9/16" wrench Screwdriver (1) 1/2" wrench Utility Knife Ratchet Wrench (1) 3/4" socket

(2) 11/16" Wrenches

Take all of the items out of the box. The box contains the items shown below. Open the parts bag and check the contents (see below and page 6).





NOTE: RIGHT HAND (R.H.) AND LEFT HAND (L.H.) ARE DETERMINED FROM OPERATOR'S POSITION WHILE SEATED ON THE TRACTOR.



The operation of any tractor 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 tractor and while mowing. We recommend Wide Vision Safety Mask worn over spectacles or standard safety glasses, available at Sears Retail or Catalog Stores.

ASSEMBLY LOCATION	PARTS BAG CONTENTS	S SHOWN FULL SIZE
BATTERY	(2) Lockwasher, 1/4 Int/Ext Tooth	(2) Wing Nut - 1/4 - 20
BATTERY TERMINALS	(2) Hex Bolt, 1/4 - 20 x 3/4 (2) Washer 9/32	(2) Lockwasher 1/4 x 5/8 x 16 Ga. (2) Hex Nut, 1/4 - 20
SEAT	(1) Hex Bolt, 1/2 - 13 x 1  (1) Lockwash  (1) Shoulder Bolt	er, 1/2 (1) Washer, 17/32 x 1-3/16 x 12 Ga.

#### **Unpacking Instructions**

- Take items out of box; the box contains the items shown below.
- 2. Cut down four corners of the carton with a utility knife and fold down sides.
- 3. Disengage Parking Brake.
- 4. Carefully guide the tractor backwards off the skid.

#### WEAR EYE AND FACE SHIELD.

WASH HANDS OR CLOTHING IMMEDIATELY IF ACCIDENTALLY IN CONTACT WITH BATTERY ACID.



DO NOT SMOKE. FUMES FROM CHARGED BATTERY ACID ARE EXPLOSIVE.

READ THE INSTRUCTIONS INCLUDED WITH THE BATTERY VENT CAPS FOUND IN THE BAG OF PARTS. ALWAYS WEAR GLOVES, CLOTHING AND GOGGLES TO PROTECT YOUR HANDS, SKIN AND EYES.

#### 1. Prepare Battery

- a. Fill and charge battery (before installing). NOTE: SEE DETAILED INSTRUCTIONS PACK-AGED WITH THE BATTERY VENT CAPS FOUND IN THE BAG OF PARTS.
- Fill each cell with battery acid. Add the acid until it reaches the bottom of the battery vent tubes (Fig. 1). NOTE: DO NOT OVERFILL. OVERFILLING WILL RESULT IN DAMAGE TO TRACTOR.
- c. Allow battery to stand and settle for at least thirty minutes. If the level of acid falls below the point described in step (b), add more acid until the correct level is reached. NOTE: UNEVEN FILLING OF CELLS WILL AFFECT THE BATTERY CAPACITY AND LIFE. Install the battery caps to cover the vent wells. Wash the top of the battery with water to remove any acid, then wipe dry.
- d. Check battery case for leakage to make sure that no damage has occurred in handling.
- e. It is recommended that the battery be charged before use. Use a 12 volt battery charger. Charge battery at a rate of 6 amperes for 1 hour. NOTE:OBSERVE ALL SAFETY PRECAUTIONS REQUIRED FOR BATTERY CHARGING. Check the acid level after the battery is charged. If the acid has fallen below the correct level, add water.
- f. Neutralize excess battery acid for disposal by adding it to 2 gallons (7.5 litres) of water in a 5 gallon (20 litres) plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.

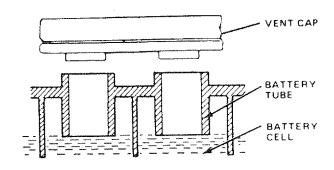
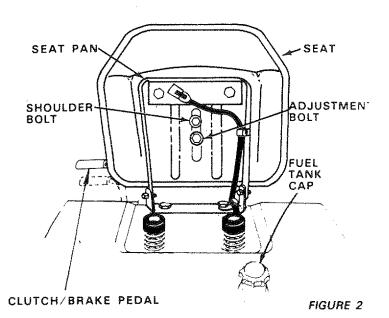


FIGURE 1



#### 2. Install Seat

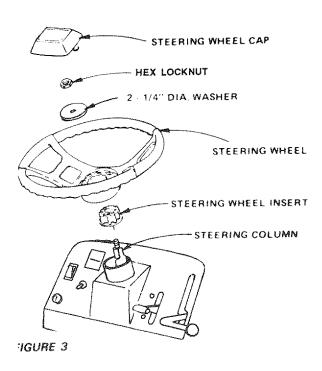
a. Place seat on seat pan. Screw adjustment bolt, lockwasher and flat washer into seat (Fig. 2). Screw shoulder bolt into seat. Bolts, lockwasher, and flat washer found in bag of parts. Tighten shoulder bolt securely using a1/2" wrench. Tighten adjustment bolt.

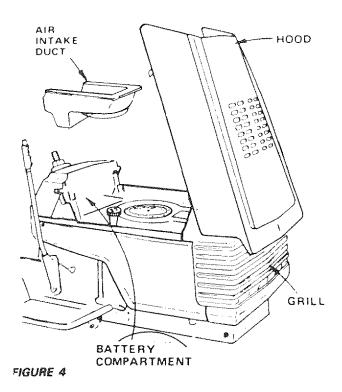
# NOTE: THE SHOULDER BOLT WILL BE LOOSE IN THE SEAT PAN SLOT.

- b. Place seat in operating position. Sit on the seat and press clutch/brake pedal all the way down. If operating position is not comfortable, adjust seat.
- c. To adjust, raise seat. Loosen adjustment bolt (Fig. 2) and slide seat to a comfortable operating position. Tighten adjustment bolt securely using a 3/4" wrench.



ADJUSTMENT BOLT, LOCKWASHER, AND FLAT WASHER MUST BE TIGHT-ENED SECURELY TO PREVENT MOVE-MENT OF THE SEAT.

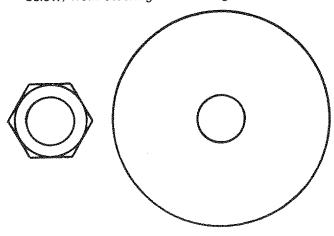




#### 3. Install Steering Wheel

NOTE: POSITION FRONT WHEEL FORWARD.

a. Use a 3/4" wrench to remove hex lock nut, and 2-1/4" diameter washer (shown full size below) from steering column (Fig. 3).



- b. Position steering wheel over steering wheel insert.
- c. Secure steering wheel to steering column using the 2-1/4" diameter washer and the hex lock nut (Fig. 3). Torque to 50 ft. lbs. (67.79 N-m).
- Snap steering wheel cap in place on steering wheel. Steering wheel cap found in bag of parts.

#### 4. Check Tires

Reduce tire pressure to 14 PSI (1 kg per cm²) in front tires and 12 PSI (0.84 kg per cm²) (Tires were overinflated for shipping purposes).

#### 5. Install Battery



DO NOT SHORT BATTERY TERMINALS.

BEFORE INSTALLING BATTERY, REMOVEMETAL BRACELETS, WRIST-WATCH BANDS, RINGS, ETC.

- a. Lift hood from rear sides (Fig. 4).
- Make sure drain tube (Fig. 6) is fastened to drain hole in battery tray and battery tray is positioned in hole of battery support.
- Place battery in plastic tray (battery terminals to front of tractor)(Fig. 6).



POSITIVE TERMINAL MUST BE CONNECTED FIRST TO PREVENT SPARKS FROM ACCIDENTAL GROUNDING.

d. Connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lockwasher and hex nut (shown full size below) found in bag of parts (Fig. 5). Tighten securely.

e. Connect BLACK ground cable to negative (-) battery terminal with remaining hex bolt, flat washer, lockwasher and hex nut (shown full size below) found in bag of parts (Fig. 5). Tighten securely.









NOTE: IF YOU HAVE A WEAK BATTERY, SEE "STARTING YOUR TRACTOR WITH A WEAK BATTERY" (PAGE 21).

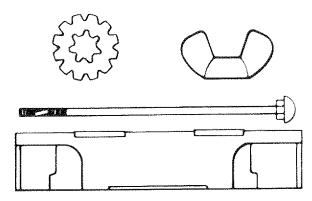


IF BATTERY IS REMOVED, DO NOT OPERATE ENGINE. SPARKING MAY OCCUR.

f. Using the slotted hole on one side of the battery support (Fig. 6) insert one battery bolt into frame slot (head of bolt down). Fasten the battery bolt to the terminal guard using int./ext. lockwasher and wing nut. (Bolts and lockwashers, nuts and terminal guard found in bag of parts).

g. Assemble the remaining bolt to other side of battery support and fasten terminal guard to it with remaining int./ext. lockwasher and wing nut (shown full size below). Tighten wing nuts

securely by hand (Fig. 6).



- h. Remove plastic from tractor hood and close.
- i. Secure hood.

NOTE: USE TERMINAL ACCESS DOORS (FIG. 6) FOR:

- 1. INSPECTION FOR SECURE CONNECTIONS (TIGHTEN HARDWARE)
- 2. INSPECTION FOR CORROSION
- 3. TESTING BATTERY
- 4. JUMPING (IF REQUIRED)
- 5. CHARGING (IF REQUIRED)

# ASSEMBLY

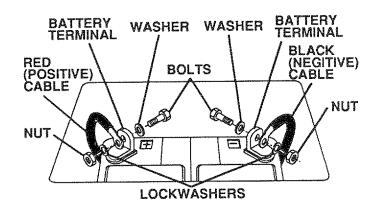


FIGURE 5

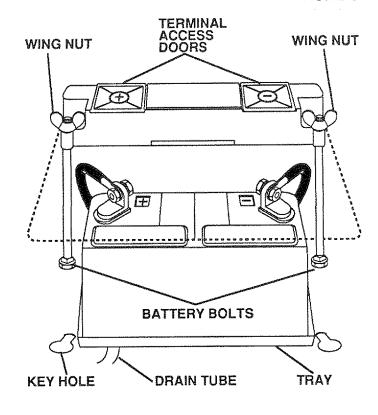


FIGURE 6

KEEP TERMINAL ACCESS DOORS CLOSED WHEN NOT IN USE.



DO NOT START ENGINE OR DRIVE TRACTOR UNTIL MOWER HAS BEEN INSTALLED, OR PARALLEL LINK HAS BEEN REMOVED.

SEE MOWER INSTALLATION (PAGE 10).

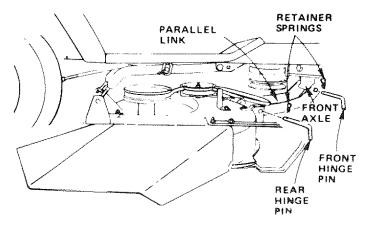
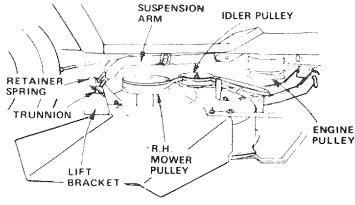


FIGURE 7

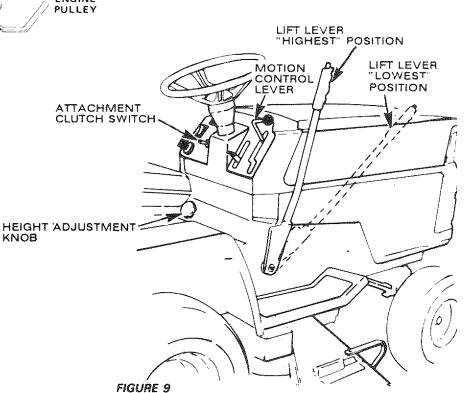
FIGURE 8



6. Mower Installation

Your 38" mower installs without the use of tools. a. Raise lift lever (Fig. 9) to its highest position.

- b. Turn height adjustment knob counterclockwise ( ) to lowest position (Fig. 9).
- c. Install front hinge pin through tractor axle and parallel link (Fig. 7). Secure with retainer spring. NOTE: SMALLER END OF PARALLEL LINK MOUNTS TO TRACTOR.
- d. Install rear hinge pin through mower lift brackets and parallel link (Fig. 7). Secure with retainer
- Move lift lever forward to lower suspension. arms.
- f. Slide trunnions through lift bracket holes and secure with retainer spring (Fig. 8).
- g. With belt routed around R.H. mower pulley and idler pulley, roll belt over engine pulley (Fig. 8) Drive schematic decal or mower housing.
- h. Roll belt over L.H. mower pulley.
- i. Use lift lever to raise mower.
- j. Turn height adjustment knob clockwise ( ) to the middle of its travel.



KNOB

#### 7. Mower Drive Belt Removal

REPLACE ONLY WITH BELTS SPECIFIED IN THIS MANUAL.

- a. Place attachment clutch switch in "disengaged" position (Fig. 9).
- b. Turn height adjustment knob counterclockwise ( ) to lowest position.
- c. Move attachment lift lever (Fig. 9) forward to lower mower to its lowest position.
- d. Roll belt off engine pulley (Fig. 10).
- e. Remove belt from mower pulleys (L.H. and R.H. mandrels) and idler pulley (Fig. 10).
- f. To install mower drive belt, reverse above procedure. Make sure drive belt is engaged in all pulleys.

#### 8. Final Assembly

- a. Make sure all fasteners are tight.
- b. Read and follow the operation instructions (page 12). Know the location and purpose of all controls.
- c. Check oil and gasoline (page 13) before starting the tractor.

#### 9. Check the Cutting Level

After mowing a short distance, look at the area that was cut. If the blade housing cuts uneven; see the instructions on "Side-to-Side and Front-to-Rear Mower Adjustment" (page 23).

# **ASSEMBLY**

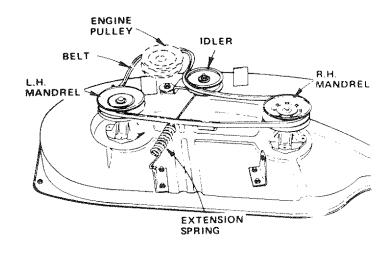
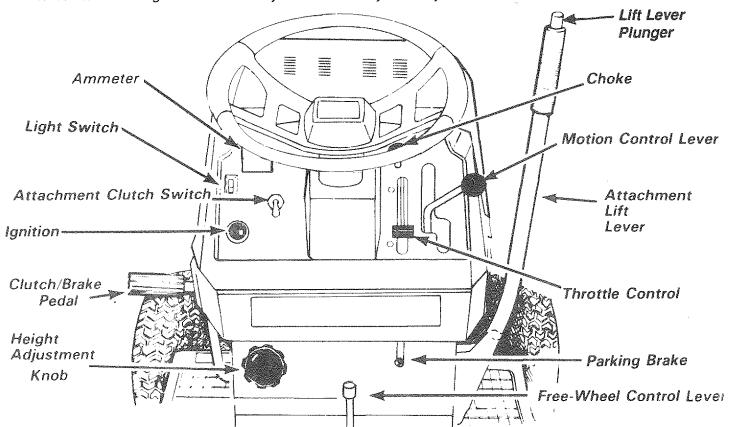


FIGURE 10

# **OPERATION**

#### KNOW YOUR TRACTOR

READ THIS OWNER'S MANUAL BEFORE OPERATING YOUR TRACTOR. If you understand the unit and its operation, you will achieve efficient and peak performance. While reading the manual, compare the illustrations with your tractor to familiarize yourself with the location of various controls and adjustments. Study the operating instructions and safety precautions thoroughly to insure proper functioning of your tractor and to prevent injury to yourself and others. Be sure to pay strict attention to all warnings and cautions: they are included for your safety. Save this manual for future reference.



ATTACHMENT CLUTCH SWITCH: Pull switch out and up to engage mower. Operator must be positioned in seat. There will be an engine hesitation as the clutch engages.

ATTACHMENT LIFT LEVER: Use the attachment lift lever to raise and lower the attachment mounted to your tractor. Push plunger and move the lift lever forward to lower attachment.

CHOKE: To start a cold engine, pull choke out to engage.

**CLUTCH/BRAKE PEDAL**: The pedal has 2 functions: a clutch and a brake. To engage the brake push the pedal completely.

FREE-WHEEL CONTROL LEVER: Move lever forward and lock in "J" slot, then move motion control lever to neutral position when pushing or towing the tractor. Do not tow faster than 3 MPH (4,8 Kmh).

HEIGHT ADJUSTMENT KNOB: Use the height adjustment knob to adjust the mower height. With the attachment lift lever in the "up" position, turn knob clockwise --- to raise cutting height and counterclockwise --- to lower cutting height. Lower Attachment lift lever to lower attachment to selected height.

**IGNITION**: Place key in ignition and turn to the right to start.

AMMETER: Each time you start your tractor, check your ammeter. The needle should move towards the (+) charging mark indicating the battery is being charged as you operate the tractor. The headlights will not show a discharge on the ammeter because they are not connected to the battery (they have their own electrical source).

LIGHT SWITCH: Turns on and off the headlights.

**MOTION CONTROL LEVER:** From neutral position, move lever upward for forward motion or downward for rearward motion. Increased movement produces an increase in speed.

PARKING BRAKE: To set the parking brake, push the clutch/brake pedal completely forward. Place the parking brake lever in "Engaged" position and release pressure from pedal. Clutch/brake pedal will remain in brake position. To release, push pedal in.

**THROTTLE CONTROL**: Use the throttle control to increase or decrease the speed of the engine.



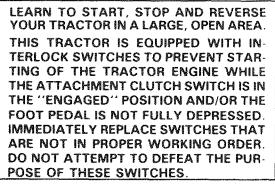
LEARN HOW TO STOP YOUR TRACTOR BEFORE ATTEMPTING TO START THE ENGINE.

# CAUTION:DO NOT CHOKE CARBURETOR TO STOP THE ENGINE.

NOTE: REMOVE KEY WHEN LEAVING TRACTOR TO PREVENT UNAUTHORIZED USE.

- a. Push clutch/brake pedal into full "BRAKE" position.
- b Move motion control lever to "NEUTRAL" position.
- c Place parking brake in "ENGAGED" position and release pressure from clutch/brake. Pedal should remain in "BRAKE" position. NOTE: MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.
- d. Place attachment clutch switch in "DISENGAG-ED" position.
- e. Move throttle control to "S" (slow) position.
- Turn ignition key to "OFF" position. Never use choke to stop engine.

#### 2. Starting The Engine



- a. This engine has been shipped filled with summer weight oil. For cold weather operation, see chart on page 16. Check engine oil level with tractor on level ground. Remove and wipe dipstick (Fig. 11) clean, push it in tight for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark is reached.
- b. Fill fuel tank (Fig. 12). Use fresh, clean, regular UNLEADED automotive gasoline (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Capacity is 3-1/2 gallons (13.24 litres).

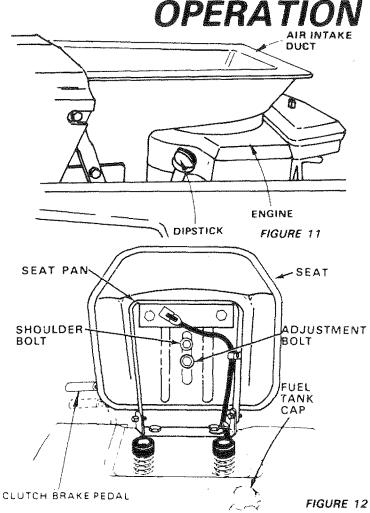
CAUTION: EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

TO AVOID ENGINE PROBLEMS, THE FUEL SYSTEM SHOULD BE EMPTIED BEFORE STORAGE FOR 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 INSTRUCTIONS FOR ADDITIONAL INFORMATION.

NEVER USE ENGINE OR CARBURETOR CLEANER PRODUCTS IN THE FUEL TANK OR PERMANENT DAMAGE MAY OCCUR.



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.



 Place attachment clutch switch in "DISENGAGED" position (Fig. 15).

d. Push clutch/brake pedal fully into brake position (Fig. 14).

e. Place motion control lever in "NEUTRAL" position (Fig. 15).

f. Move throttle control lever (Fig. 15) past "FAST" to the "CHOKE" position

g. Turn ignition key clockwise ( ) to "START" position and release key as soon as engine starts.

NOTE: DO NOT RUN STARTER CONTINUOUSLY FOR MORE THAN FIFTEEN SECONDS PER MINUTE. If engine does not start after several attempts, move throttle control to "F" (fast) position, wait a few minutes and try again.

NOTE: IF YOU HAVE A WEAK BATTERY, SEE "STARTING YOUR TRACTOR WITH A WEAK BATTERY" (PAGE 21).

- h. After engine starts move throttle control lever slowly to the "SLOW" position. The first time you start the engine, it will take extra cranking time to move fuel from tank to the engine. NOTE: ALLOW EN-GINE TO WARM UP FOR A FEW MINUTES BE-FORE ENGAGING CLUTCH OF TRACTOR OR AT-TACHMENT.
- i. When restarting a warm engine, move throttle control midway between slow "S" (slow) and "F" (fast) position.

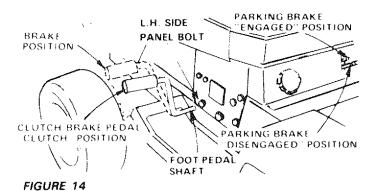


IMPORTANT: BEFORE DRIVING THE TRACTOR, INSTALL MOWER OR REMOVE MOWER PARALLEL LINK (SEE FIGURE 7).

## **OPERATION**

FUNCTION	MOTION CONTROL	THROTTLE
Normal Mowing		
Heavy Mowing		Ť
Snow Blower and Tilling		FAST
Snow Blade	\$\tag{\tag{\tag{\tag{\tag{\tag{\tag{\tag	
Transport		SLOW-FAST

FIGURE 13



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READ THE "RULES FOR SAFE OPERATION" CAREFULLY BEFORE OPERATING YOUR MOWER.

CAUTION: DO NOT ADD ADDITIONAL WEIGHT TO THE TRACTOR OTHER THAN THE OPTIONAL WHEEL WEIGHTS. EXCESSIVE WEIGHT MAY OVERLOAD AND DAMAGE THE TRANSMISSION.

THE MOWER MUST BE ADJUSTED PROPERLY FROM FRONT TO REAR AND LEVELED FROM SIDE TO SIDE BEFORE OPERATING. THIS IS NECESSARY FOR LEVEL AND EFFICIENT MOWING. REFER TO PAGE 23.

3. Operating Your Tractor and Mower

NOTE: THIS TRACTOR IS EQUIPPED WITH AN OPERATOR PRESENCE SENSING SWITCH. ANY ATTEMPT BY THE OPERATOR TO LEAVE THE SEAT WITH THE ENGINE RUNNING AND THE ATTACHMENT CLUTCH ENGAGED WILL SHUT OFF THE ENGINE.

#### CAUTION TO AVOID INJURY

- 1. Read owner's manual.
- 2. Know the location and function of all controls.
- 3. Keep guards, safety shields and switches in place and working.
- 4. Remove objects that can be thrown by blades.
- 5. Do not mow when children and others are around.
- 6. Never carry children or passengers.
- 7. Always look behind machine before backing.
- 8. Do not mow where machine can tip or slip.
- 9. If machine stops going uphill, stop blade and back slowly down.
- Be sure blades and engine have stopped before placing hands or feet near the blades.
- 11. Remove key when leaving machine.

# MAKE SURE PARKING BRAKE WILL HOLD TRACTOR SECURE.



NEVER PLACE YOUR HANDS OR FEET IN OR UNDER ANY POWERED ATTACHMENT OR NEAR ANY MOVING PART WHILE TRACTOR OR ANY POWERED ATTACHMENT IS RUNNING.

NOTE: ALWAYS OPERATE ENGINE AT FULL THROTTLE WHEN MOWING TO ASSURE BETTER MOWING PERFORMANCE, AND PROPER DISCHARGE OF CUT MATERIAL. REGULATE GROUND SPEED BY SELECTING A LOW ENOUGH SPEED (FIG. 13) TO GIVE THE MOWER CUTTING PERFORMANCE PLUS QUALITY OF CUT DESIRED.



DO NOT OPERATE THE MOWER WITH-OUT EITHER THE ENTIRE GRASS CATCHER, ON MOWERS SO EQUIPPED, OR THE DEFLECTOR SHIELD IN PLACE.

- a. Select desired height of cut position using height adjustment knob (Fig. 15).
- b. Raise lift lever and place attachment clutch switch in "disengaged" position.
- c. Push clutch/brake pedal down firmly (Fig. 14).
- d. Start engine (page 13).
- e. With engine running and warm, place throttle control midway between "S" (slow) and "F" (fast) positions.
- f. Engage mower with the attachment clutch switch.
- g. Move motion control lever to desired speed and direction.
- h. Lower mower into cutting position using attachment lift lever.
- i. Release clutch/brake pedal to start movement (Fig. 14).
- j. Move throttle control to "F" (fast) position.

NOTE: SELECT A GROUND SPEED THAT WILL SUIT THE TERRAIN, QUALITY OF CUT AND ATTACHMENT BEING USED. (See Fig. 13).

# **OPERATION**

CAUTION: NEVER RUN THE ENGINE WITHOUT AIR **INTAKE DUCT INSTALLED (FIGURE 11).** 

#### 4. Mowing Tips

NOTE: TIRE CHAINS CANNOT BE USED WITH THE MOWER HOUSING ATTACHED.



**READ THE "SAFETY RULES" CAREFULLY** BEFORE OPERATING YOUR MOWER. **REFER TO PAGE 2.** 

- Use the runner on the R.H. side as a guide; the blade cuts approximately an inch (2.54 cm) outside the runner (Fig. 16).
- b. Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- c. When mowing large areas (Fig. 17), start by turning to the right so that the clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.
- d. If grass is extremely tall, it should be mowed twice. The first time cut relatively high; the second time to the desired height.
- e. The left hand side of mower should be used for trimming.
- f. Do not mow tall dry (brown) grass over 6" (15.24 cm), as this may be a fire hazard.

#### 5. Operating The Tractor On Hills

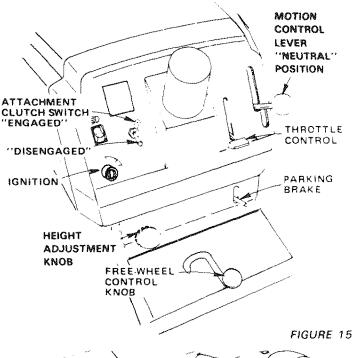


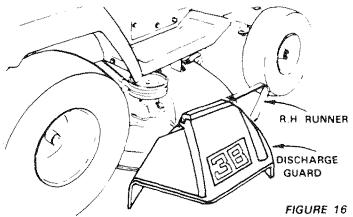
DO NOT DRIVE UP OR DOWN HILLS WITH SLOPES GREATER THAN 150 AND DO NOT DRIVE ACROSS ANY SLOPE. REFER TO PAGE 55.

- a. Choose the slowest speed BEFORE starting up or down hills.
- b. AVOID STOPPING OR CHANGING SPEED ON HILLS.
- c. If slowing is necessary, move motion control lever towards "N" (neutral) position or throttle control lever to middle position.
- d. If stopping is absolutely necessary, push clutch/brake pedal quickly to "brake" position and engage parking brake.
- e. After starting your tractor, disengage parking brake and release clutch/brake pedal SLOWLY. To start tractor forward, move motion control lever forward to desired speed.
- f. Make all turns gradually.

#### 6. Flip-Up Discharge Guard

Your mower has a flip-up discharge guard (Fig. 16) for door or gate clearance when held in raised position.





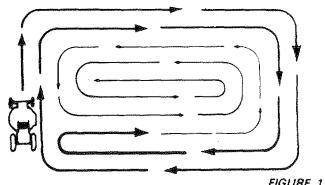
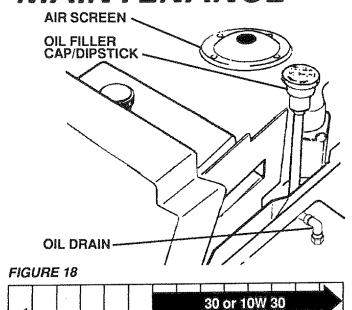


FIGURE 17



MAKE SURE ATTACHMENT CLUTCH SWITCH IS IN "DISENGAGED" POSITION AND BLADES HAVE STOPPED BEFORE RAISING DISCHARGE GUARD (DEFLEC-TOR). NEVER OPERATE MOWER WITHOUT DISCHARGE GUARD IN OPERATING POSITION.



-20° 0° 32° 60° 80° 100° FIGURE 19

To keep your tractor running better, longer, perform necessary service using

the following maintenance schedule:

5W 30

BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR:

- PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO BRAKE POSITION.
- 2. MOVE MOTION CONTROL LEVER TO NEUTRAL POSITION.
- 3. PLACE PARKING BRAKE IN "ENGAGED" POSITION. REMOVE FOOT FROM PEDAL.



- PLACE ATTACHMENT CLUTCH SWITCH IN "DISENGAGED" POSI-TION.
- 5. TURN IGNITION KEY TO "OFF" POSI-TION.
- MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED.
- 7. REMOVE THE IGNITION KEY.
- 8. DISCONNECT THE SPARK PLUG WIRE FROM THE SPARK PLUG AND KEEP WIRE AWAY FROM THE SPARK PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

#### With Every Mowing

- 1. Make sure all nuts on bolts are tight and cotter pins and retainer springs are secure.
- 2. Observe all safety precautions.
- 3. Keep tractor well lubricated (refer to page 19).

#### First 2 Hours (Two Mowings)

#### 1. Change Engine Oil

Changing oil after the first two hours (or two mowings) will help eliminate break-in residue which might be damaging to your engine.

NOTE: BE CAREFULL NOT TO ALLOW DIRT TO ENTER THE ENGINE WHEN CHANGING OIL.

- a. Drain oil with engine warm.
- b. Loosen oil drain plug and remove dipstick (Fig. 18).
- c. Catch oil in a suitable container.
- d. Tighten oil drain plug.
- e. Refill engine oil (Fig. 19). Refill capacity is 1-1/2 quarts (1.42 litres). NOTE: DO NOT OVERFILL.
- Replace dipstick. Dipstick assembly must be securely tightened into tube at all times when engine is operating.

#### Recommended SAE Viscosity Grades

Determine temperature range expected before next oil change. All oil must meet A.P.I. service classification SD, SE or SF.

CAUTION: TO AVOID DAMAGE TO THE STARTING SYSTEM, USE SAE 5W30 OIL WHEN THE TEMPERATURE FALLS BELOW 32°F (0°C).

NOTE: FRESH, CLEAN WINTER GRADE FUEL MUST BE USED TO INSURE GOOD COLD WEATHER STARTING.

#### Every 5 Hours (Five Mowings)

1. Check Engine Oil Level



DO NOT CHECK ENGINE OIL LEVEL WITH ENGINE RUNNING.

Several minutes after stopping engine, check engine oil level with tractor on level ground. Wipe dipstick (Fig. 18) clean, push it down tight for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark is reached (See Figure 19).

NOTE: DO NOT OVERFILL.

#### Every 25 Hours (Twice a Mowing Season)

1. CHECK BRAKE OPERATION

This tractor is equipped with an adjustable disc brake, Mounted on the right side of the transaxle (fig. 21).



IF TRACTOR REQUIRES MORE THAN SIX FEET (1.83 M) STOPPING DISTANCE IN HIGHEST GEAR, THEN BRAKE MUST BE ADJUSTED.

NOTE: A 1/2" WRENCH AND A RULER ARE REQUIRED TO ADJUST BRAKE.

- a. Depress Clutch / Brake Pedal and engage Parking Brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2" (3.81 cm), loosen jam nut (Fig. 21) and turn nut "A" until distance becomes 1-1/2" (3.81 cm). Retighten jam nut against nut "A".

Road test tractor for proper stopping distance as stated above. Readjust if necessary.

#### 2. Tire Care

Maintain tire pressure in front at 14 PSI (1 kg per cm²) and in rear at 12 PSI (0.84 kg per cm²).

#### 3. Blade Sharpening

For best results, Mower blades must be kept sharp. The blades can be sharpened with afew strokes of a file or on a grinding wheel. We suggest they be sharpened after every 25 hours of mowing. Do not attempt to sharpen while on mower. If you mow in sandy soil check the blades after each two mowings. The sand may wear the blades away rapidly.

- a. When grinding, care should be taken to maintain blade balance and the blade should be checked for proper balance before reinstallation on mower. Unbalanced or bent blade will cause excessive vibration when running, and eventual damage to mower or engine. Replace bent or damaged blades.
- b. To check blade balance, drive a nail into a beam or wall. Leave about one inch (2.54 cm) of the straight nail exposed. Place center hole of clean blade over the head of the nail (Fig. 20).

NOTE: CENTER HOLE OF BLADE ON NAIL. IF BLADE IS PROPERLY BALANCED, BLADE SHOULD REMAIN IN POSITION SHOWN IN FIG. 20. IF EITHER END OF THE BLADE MOVES DOWNWARD, BLADE IS NOT BALANCED. SHARPEN THE HEAVY END UNTIL BLADE IS BALANCED.

#### 4. Check Pump Assembly Fluid Level

NOTE: BEFORE CHECKING OIL LEVEL, CLEAN RESERVOIR AND CAP WITH CLOTH TO REMOVE DUST OR GRASS CLIPPINGS.

- Using a 9/16" wrench remove 4 fasteners to remove Drawbar (Fig. 22).
- b. Disconnect Tiller Attachment Interlock Loop (Fig. 22).
- c. Check for proper fluid level in reservoir. Fluid level should be above the "Oil Level Cold" line (Fig. 23).
- d. Remove cap on reservoir, and bladder (Fig. 23) and fill to "Oil Level Cold" line with SAE 10W30.

NOTE: RESERVOIR CAPIS REMOVED WITH A CLOCKWISE ROTATION.

- e. Replace Cap until snug (Do not overtighten).
- f. Reconnect Tiller Attachment Interlock Loop.

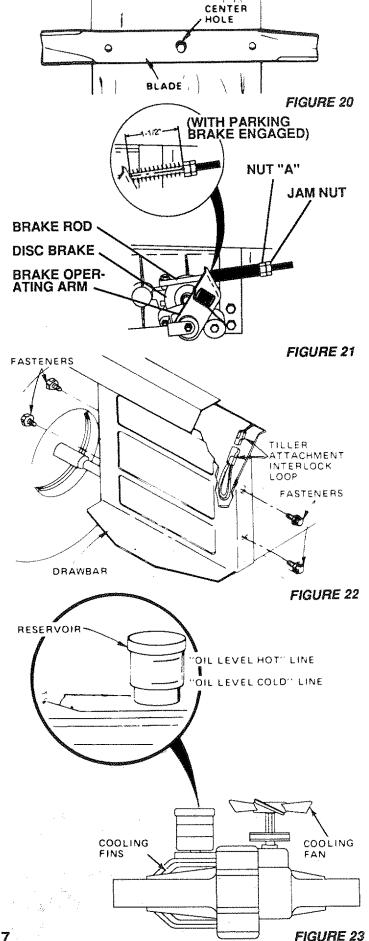
#### 5. Check Hydrostatic Transmission Cooling

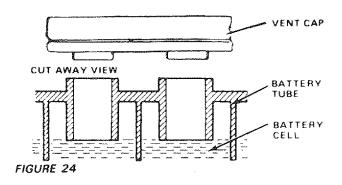
DO NOT ATTEMPT TO CLEAN FAN OR TRANSMISSION WHILE ENGINE IS RUNNING OR WHILE THE HYDROSTATIC TRANSMISSION IS HOT.

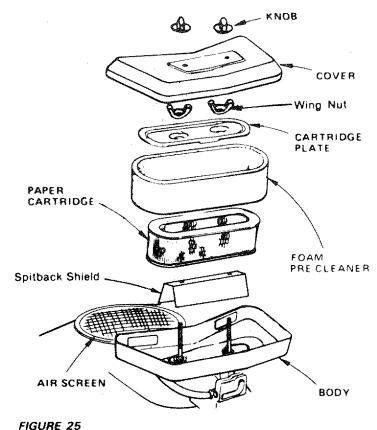
- a. Inspect cooling fan (Fig. 23) to assure fan blades are intact and clean.
- b. Inspect hydrostatic cooling fins (Fig. 23) for dirt, grass clippings and other material that could hinder fan air from properly cooling transmission.
- c. Thoroughly clean the cooling fins with a cloth, brush or compressed air.



WEAR SAFETY GLASSES WHEN USING COMPRESSED AIR







#### Every 50 Hours (Once a Mowing Season)

(Operating in dusty conditions may require more frequent servicing.)

- 1. Check Battery
  - a. Battery acid level in each battery cell should be even with bottoms of tubes in cells (Fig. 24). Add ONLY distilled water if necessary. NOTE: DO NOT OVERFILL.

- b. Keep battery and terminals clean.
- c. Keep battery bolts tight.
- d. Keep vent caps tight and small vent holes in caps open.
- e. Recharge at 6 amperes for 1 hour if necessary.

#### 2. Clean Battery and Terminals

Corrosion and dirt on the battery and terminals cause the battery to ''leak'' power.



LEAD-ACID BATTERIES GENERATE EX-PLOSIVE GASES. KEEP SPARKS, FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES. ALWAYS SHIELD YOUR EYES AROUND BATTERIES.

- a. Remove terminal guard.
- Disconnect BLACK battery cable then RED battery cable and remove battery from tractor.
- c. Wash battery with 4 tablespoons (60 grams) of baking soda to 1 gallon (3.8 litres) of water.

NOTE: BE CAREFULL NOT TO GET THE SODA SOLUTION INTO THE BATTERY CELLS.

- d. Rinse the battery with plain water, dry and reinstall in tractor.
- Clean terminals and battery cable ends with wire brush until bright.
- f. Replace battery cables, connecting RED battery cable to positive terminal first, then BLACK battery cable to negative terminal. Coat terminal connections with petroleum jelly.
- g. Replace terminal guard.

#### 3. Change Engine Oil

The best time to change engine oil is at the end of a day's operation when all dirt and foreign materials are suspended in the hot oil (See Fig. 19).

# (OPERATING IN DUSTY CONDITIONS MAY REQUIRE MORE FREQUENT SERVICING)

- 4. CLEAN AIR CLEANER ELEMENT (FIG. 25)
- Remove two cover knobs and remove air cleaner cover.
- b. Remove foam pre-cleaner.
  - Wash pre-cleaner in liquid detergent and warm water to remove dirt.
  - Wrap pre-cleaner in cloth and squeeze dry. Lightly coat foam with engine oil. Squeeze in rag or towel to remove excess oil. Do not saturate.
- c. Remove two nuts from top of cartridge.
- d. Remove cartridge and clean air cleaner body carefully to prevent dirt form entering carburetor.
- e. Clean cartridge by gently tapping on flat surface. If very dirty, replace cartridge.
- f. Reassemble air cleaner.

NOTE: NUTS HOLDING AIR CLEANER CARTRIDGE MUST BE INSTALLED WITH FIBER WASHERS DOWN ON CARTRIDGE PLATE TO PREVENT DIRT FROM ENTERING CARBURETOR. TIGHTEN NUTS BY HAND. OVERTIGHTENING COULD COLLAPSE CARTRIDGE.

NOTE: NEVER RUN ENGINE WITH AIR CLEANER REMOVED.

#### 5. Lubricate Steering and Front Wheels

There is a grease fitting on each front wheel. Use a grease gun; give each grease fitting two shots of extreme pressure lubricating grease. Use 30 weight oil to lubricate front spindles (Fig. 26).

#### 6. Oil Pivot Points

Place several drops of SAE 30 oil at points where metal parts move against each other, see Lubrication Chart, page 20.

#### 7. Clean Air Screen

Air screen (Fig. 18) must allow free-flow of air to prevent engine damage from overheating. Clean with a wire brush, compressed air or water pressure to remove dirt, chaff, stubborn dried gum and fibers.



ALWAYS WEAR SAFETY GLASSES WHEN USING COMPRESSED AIR.

DO NOT TOUCH HOT MUFFLER, CYLINDER OR FINS AS CONTACT MAY CAUSE BURNS.

#### 8. Check Muffler

Inspect and replace corroded muffler as it could create a fire hazard and/or damage.

#### Every 100 Hours



DISCONNECT SPARK PLUG WIRE TO PREVENT ACCIDENTAL STARTING BEFORE MAKING ANY INSPECTION, ADJUSTMENT OR REPAIR (EXCEPT CARBURETOR). BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

#### 1. Replace Spark Plug

Replace Spark Plug, using a 13/16" deep well socket, at the begining of each mowing season or every 100 hours, whichever comes first. Gap should be set at 0.030 inch (0.762 mm) (Fig. 28).

# 2. Replace Air Cleaner Paper Cartridge and Pre-Cleaner (Refer to page 18).

#### 3. Replace In-Line Fuel Filter

If fuel filter is clogged, obstructing fuel flow to carburetor, replacement is required.

- a. With engine cool, remove filter and plug fuel line sections as removed from both ends of fuel filter (Fig. 29).
- b. Place new fuel filter in position in fuel line.



BE SURE THERE ARE NO FUEL LINE LEAKS AND THAT FUEL LINE IS IN PROPER POSITION IN HOSE CLAMPS.

# GREASE BOTH FRONT WHEELS OIL SPINDLES

FIGURE 26

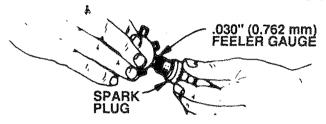


FIGURE 28

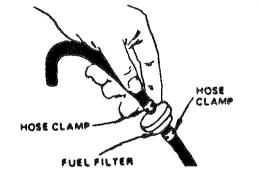
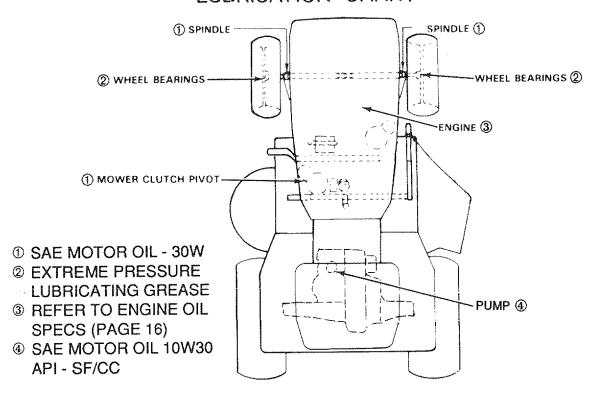


FIGURE 29

#### LUBRICATION CHART



# REPAIR & ADJUSTMENT

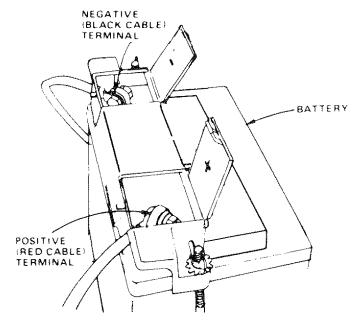


FIGURE 30

FOR ANY ADJUSTMENTS, INSPECTION OR MAINTENANCE:

- PUSH TRACTOR CLUTCH/BRAKE PEDAL COMPLETELY INTO BRAKE POSITION.
- 2. MOVE MOTION CONTROL LEVER TO "NEUTRAL" POSITION.
- 3. PLACE PARKING BRAKE IN "ENGAGED" POSITION. REMOVE FOOT FROM PEDAL.
- 4. PLACE ATTACHMENT CLUTCH SWITCH IN "DISENGAGED" POSITION.



- 6. MAKE ABSOLUTELY SURE THE BLADES AND ALL MOVING PARTS HAVE COMPLETELY STOPPED.
- 7. REMOVE THE IGNITION KEY.
- 8. DISCONNECT THE SPARK PLUG WIRES FROM THE SPARK PLUG AND KEEP WIRE AWAY FROM THE PLUG TO PREVENT INJURY FROM ACCIDENTAL STARTING. BE CAREFUL TO AVOID TOUCHING HOT ENGINE OR MUFFLER COMPONENTS.

#### 1. Starting your Tractor With a Weak Battery

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

NOTE: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM.



LEAD-ACID BATTERIES GENERATE EX-PLOSIVE GASES, KEEP SPARKS, FLAME AND SMOKING MATERIALS AWAY FROM BATTERIES, ALWAYS WEAR EYE PRO-**TECTION WHEN AROUND BATTERIES.** 

- a. Connect each end of the RED cable to the POSITIVE (+) terminals of each battery (taking care not to short against chassis) (Fig. 30).
- b. Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- c. Connect the other end of the cable to the L.H. side panel bolt (Fig. 14). NOTE: KEEP AWAY FROM GAS TANK AND BATTERY.
- d. Disconnect cables in reverse order:
  - 1. L.H. side panel bolt (Fig. 14).
  - 2. Negative terminal of fully charged battery.
  - 3. Positive terminals.



DO NOT USE YOUR TRACTOR BAT-TERY TO START OTHER VEHICLES.

#### 2. Throttle Control Cable Adjustment

Never attempt to change maximum engine speed. This is preset at the factory (3600 ± 100 RPM) and should only be changed by a qualified service technician who has the necessary equipment.

a. Remove hood (page 23).

- b. Loosen casing clamp screw until throttle cable is free to move.
- c. Move throttle control (on the dashboard) to "FAST" position.
- d. Pull throttle cable tight (until swivel below carburetor is against side of quarter circle). Retighten casing clamp screw.

#### 3. Carburetor Adjustment

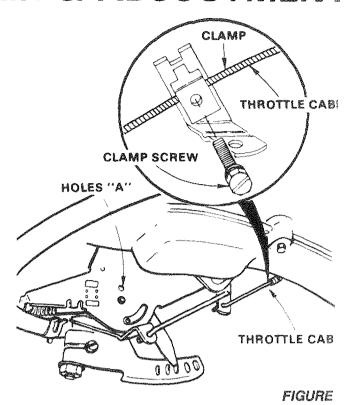
NOTE: ADJUST THROTTLE CONTROL CABLE BEFORE MAKING ANY ADJUSTMENT TO CAR-BURETOR. AIR CLEANER MUST BE ASSEMBLED TO CARBURETOR WHEN RUNNING ENGINE.

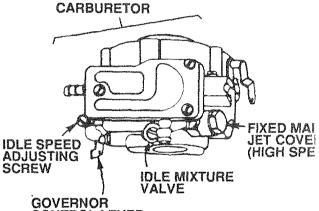
Minor carburetor adjustments may be required to compensate for differences in fuel, temperature or altitude. Adjust the carburetor fuel mixture as follows:



REFER TO "STARTING THE ENGINE," PAGE 13.

a. Gently turn idle mixture valve clockwise (Fig. 32) until it just closes and then counterclockwise ( ) 1-1/2 turns. CAUTION: Valve may be damaged if turned 21





**CONTROL LEVER** 

FIGUR.

b. Start engine and allow to warm for 1 minutes. Make final adjustments with eng running and choke pushed in.

c. Move throttle control lever (on dashboard) 'SLOW" position.

d. Hold governor control lever against idle spi screw, and adjust idle speed screw to obt 1200 to 1400 RPM (Fig. 31).

e. While still holding the governor control le against idle speed screw, turn idle mixt valve slowly clockwise ( ) (lean mixt. until speed just starts to slow.

f. Turn idle mixture valve back to the midpo between rich and lean.

g. Adjust the idle speed screw to obtain 900 1200 RPM. Release governor control lever.

h. Move throttle control (on the dashboard) "FAST." If engine hesitates or dies, turn mixture valve approximately 1/8 turn coun clockwise ( ) until engine will acceleas throttle control is moved from "SLC to "FAST."

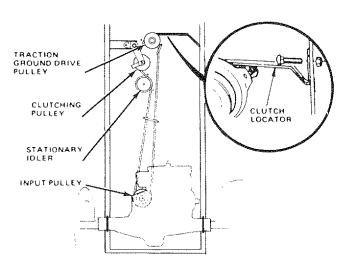


FIGURE 33

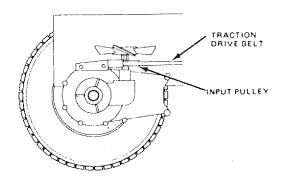


FIGURE 34

#### 4. Motion Drive Belt Replacement

Park the tractor on level area. Engage parking

NOTE: BELT INSTALLATION DECAL UNDER LEFT FOOTREST.

a. Remove mower (page 23).

- b. Remove belt from (3) stationary idlers (Fig. 33).
- c. Release parking brake. Pull belt as far as possible over top of clutching pulley (Fig. 33).
- d. Reset parking brake. Pull belt over top of clutching pulley.
- e. Place top side of belt between blades of fan and rotate fan counterclockwise () (Fig. 34). Remove belt from input pulley
- (Fig. 34). f. Using a 9/16" wrench, remove clutch locator (Fig. 33 - Inset).
- g. Disconnect clutch wire harness.
  h. Install belt by reversing above procedure.
  NOTE: REPLACE ONLY WITH BELT LISTED IN REPAIR PARTS SECTION OF THIS MANUAL.

#### 5. Fuse Replacement

Fuse is Located under dash to the left of the battery. If Fuse replacement is necessary, Replace with 30 Amp Automotive type plug in Fuse. Fuses can be purchased at all Sears Service Centers and most retail stores

#### 6. Hood Removal

- a. Lift hood. Disconnect headlight wiring connection (Fig. 36).
- b. Unscrew one screw at rear of each side panel (Fig. 35).
- c. Pivot hood and side panel forward and lift off tractor (Fig. 36).
- d. To replace, reverse the above procedure.

#### 7. Mower Removal

- a. Remove mower belt per instruction under "Mower Drive Belt Removel" through step D (page 11).
- b. Pull retainer springs out of rear suspension trunnions. Remove rear suspension trunnions from lift brackets (Fig. 37).
- c. Pull retainer spring out of rear hinge pin. Remove rear hinge pin.
- d. Pull retainer spring out of front hinge pin. Remove front hinge pin (Fig. 37).
- e. Use lift lever to raise suspension arms. Slide mower out from under tractor.

NOTE: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, THE L.H. AND R.H. SUSPENSION ARMS (FIG. 37) SHOULD BE REMOVED FROM TRACTOR.

#### 8. Level Mower Housing

Adjust the mower while tractor is parked on level ground or driveway. Make sure tire pressures are 14 PSI (1 kg/cm²) in front tires and 12 PSI (0.84 kg/cm²) in rear tires. If tires are over or underinflated, you will not properly adjust your mower.

#### Side-to-Side Mower Adjustment

- a. Depress lift lever plunger and use lift lever to raise mower to maximum cutting height.
- b. Measure height from bottom of curl to ground level at front of mower. Distance "A" should be the same on both sides of mower (Fig. 38).
- c. If distance "A" needs to be changed, snap out access hole cover on L.H. side above footrest. Use 11/16" wrench on nuts "B" and "C" at side-to-side adjustment trunnion (Fig. 39).
- d. To raise left side of mower, loosen nut "B" and tighten nut "C".
- e. To lower left side of mower, loosen nut "C" and tighten nut "B".

NOTE: ONE ROTATION OF ADJUSTMENT NUTS IS EQUIVALENT TO APPROXIMATELY 3/16" HEIGHT CHANGE.

f. Be sure all nuts are securely tightened.

#### Front-To-Rear Mower Adjustment

a. To obtain the best cutting results, your mower housing should be adjusted so the front and rear flange distance "D" (Fig. 40) is 1/2" (12.7 mm) lower in front when the mower is positioned in the highest cutting position.

NOTE: MEASURE DISTANCE "D" FROM GROUND LEVEL TO BOTTOM OF CURL ON RIGHT REAR FLANGE AND COMPARE TO DISTANCE "D" AT BOTTOM OF CURL ON RIGHT FRONT FLANGE.

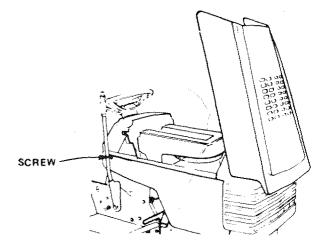
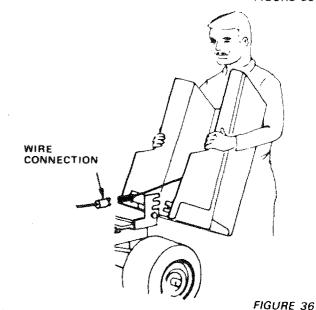


FIGURE 35



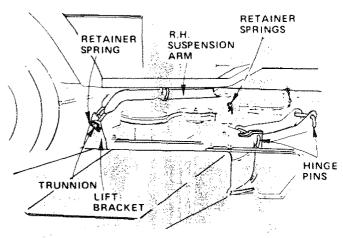
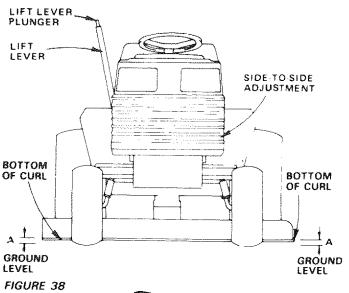


FIGURE 37



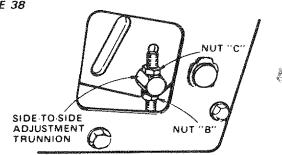


FIGURE 39

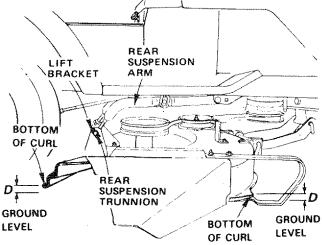
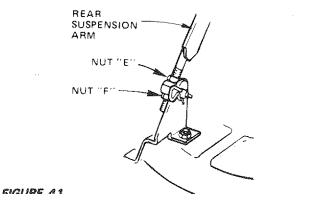


FIGURE 40



- b. To raise rear of mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" up an EQUAL NUMBER OF TURNS (Fig. 41).
- c. When distance "D" is 1/2" (1.27 cm) lower at front than rear, tighten nuts "E".
- d. To lower rear of mower, loosen nut "F" on both rear suspension arms an EQUAL NUMBER OF TURNS (Fig. 41).
- e. When distance "D" is 1/2" (1.27 cm) lower at front than rear, retighten nuts "E".

NOTE: WHEN ADJUSTING REAR SUSPENSION TRUN-NIONS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL.

#### 9. Blade Replacement

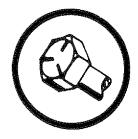
Raise mower to highest position to permit access to blades or remove mower (page 23).

- a. Remove bolt, lockwasher and washer (Fig. 42) (turn counterclockwise) ( ).
- b. Remove and discard old blade.
- c. Clean top and bottom of mower housing.
- d. Install new blade with SHARP EDGE DOWN and secure with flat washer, lockwasher and hex head bolt, TIGHTEN SECURELY.

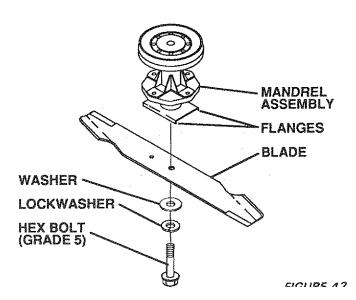


43 B

ALWAYS USE GRADE 5 HEAT TREATED BOLTS TO ATTACH BLADES. CHECK BOLTS IN BLADES OCCASIONALLY TO MAKE SURE BOLTS ARE TIGHT. TORQUE BOLTS TO 30-35 FT. LBS. (41-47 N-M).



A GRADE 5 HEAT TREATED BOLT CAN BE IDENTIFIED BY THREE LINES ON THE BOLT HEAD AS SHOWN AT LEFT.



#### 10. Rear Wheel Replacement

Coat axle with grease to prevent corrosion or rust accumulation and eventual seizing of wheel hub to axle shaft.

#### 11. Electric Clutch Adjustment

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear so the mower blades will not stop as recommended. Adjustment should be made by a Sears technician.

- a. Make sure attachment clutch and igniton switches are in the "off" position.
- Adjust the three nylon locknuts "B" until the space between the clutch plate and rotor measures .012" (0.305 mm) at all three slot locations cut in the side of the brake plate (Fig. 44).

NOTE: AFTER INSTALLING NEW ELECTRIC CLUTCH, RUN TRACTOR AT FULL THROTTLE, AND ENGAGE AND DISENGAGE ELECTRIC CLUTCH 10 CYCLES TO WEAR IN CLUTCH PLATE.

#### 12. Tire Care

- a. Maintain tire pressure in front at 14 PSI (1 kg per cm²) and rear tires at 12 PSI (0.84 kg per cm²).
- b. Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- c. Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.
- d. Removing wheel for tire repair (Fig. 45).
  - 1. Block up axle securely.
  - Remove hub cap, klip ring and washer to allow wheel removal (rear wheel contains a square key - Do Not Lose).
  - Repair tire and reassemble. Align slots in rear wheel hub and axle. Insert square key. Replace washers and snap klip ring securely in axle groove. Replace hub cap.



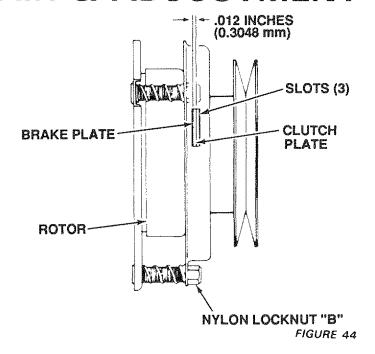
WHEN MOUNTING TIRES, UNLESS BEADS ARE SEATED, OVER INFLATION CAN CAUSE AN EXPLOSION.

#### 13. Storage

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Give blades and underside of housing a good coat of grease or rust preventative. Store in a clean dry area.

#### A. Fuel System

It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose, or tank during storage. Also, 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.



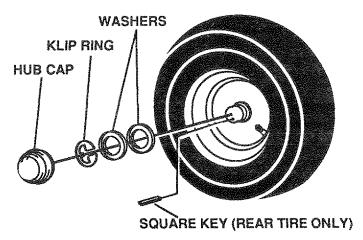


FIGURE 45

#### B. Engine Oil

Drain (with engine warm) and replace with clean engine oil. (See chart, page 16).

#### C. Cylinders

- 1. Remove spark plug.
- 2. Pour 1 ounce (29.5 ml) of oil through spark plug holes into cylinder.
- Turn ignition key to "START" position for a few seconds to distribute oil.
- 4. Replace with new spark plug.

#### D. Battery

- 1. Prior to storage, clean terminals and top of battery.
- Remove cable from positive battery terminal.
- 2. After a period of time in storage, battery may require recharging.

#### E. General Cleaning

Clean engine, battery, seat, finish, etc. of all foreign matter.

SERVICE RECORD	New transfer			5	? ? <sup>5</sup> /;	JPS/C	UPS	JOY	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	JP.S			
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		RST	HOUR	JERY	25 HO 25 HO 25 HO	URS 50 HO VERY	166 166	120	SEF	NIC	E D	ATE	:S
Change Engine Oil													
Check Brake Operation													
Check Tire Pressure													
Clean Air Screen				Barrier St.						MW-188758888			
Clean Air Cleaner													
Lubricate Tractor (see page 20)													
Check Battery Level and Recharge						**************************************							
Clean Battery and Terminals													
Carburetor Adjustment													
Check Engine Oil Level										- vi innimi vanasi			
Sharpen Mower Blades													
Check Muffler													
Replace Air Cleaner Paper Cartridge													
Replace Spark Plug													
Replace Fuel Filter											************************	NAMES OF PROPERTY	

Sears, Roebuck and Co., reserves the right to make any changes in design or improvements without imposing any obligations to install the same upon its items heretofore manufactured.

# **TROUBLESHOOTING**

#### PROBLEM - Cause/Remedy WILL NOT START Push Clutch/Brake Pedal into Brake position Move Attachment Clutch Switch to "Disengaged" position Fill Tank with Gasoline. Check Fuel Line and Carburetor (clean if necessary). Replace Fuel Filter. Use Fresh Fuel Check Fuse for fault and replace Recharge or replace Battery Check Wiring Replace Spark Plug(s) and adjust gap WILL NOT TURN OVER Push Clutch/Brake Pedal into brake position Charge or replace Battery Recharge or replace Battery Move Attachment Clutch Switch to "DISENGAGED" position Replace Ignition Switch Replace Interlock Switch(es) Replace Solenoid or Starter Check for fault and replace Fuse Check all Wire Connections and "Ground" Points **ENGINE CLICKS BUT WON'T START** Clean Battery Terminals Replace Starter or Solenoid Charge or Replace Battery Check Wire Connections and "Ground" Points HARD TO START # Place Throttle Control in "FAST" position and run starter several times to clear out gas Remove Air Cleaner and clean Replace Spark Plug(s) and adjust gap Recharge or replace Battery Check the Wiring Drain Fuel Tank and Carburetor, Use Fresh Fuel, Replace Fuel Filter Make necessary adjustments to Carburetor Major Engine Overhaul **ENGINE MISSES OR LACKS POWER** Shift to a lower gear or reduce load Drain Gas Tank and Carburetor. Use Fresh Fuel Remove and clean Air Cleaner Make necessary Carburetor adjustments Clean Air Screen Add or change oil Replace Spark Plug(s) and adjust gap Check for loose wires Replace Fuel Filter Major Engine Overhaul **ENGINE OVERHEATS** Shift to lower gear or reduce load Clean Air Screen Add or change oil Clean Engine Cooling Fins Remove and clean Muffler or replace Remove and clean Air Cleaner Use fresh fuel and adjust Carburetor

NO LIGHTS - Check Fuse, Switch and Wire Connections. Replace Headlight Bulbs

Drain and replace oil for proper temperature

Replace Switch

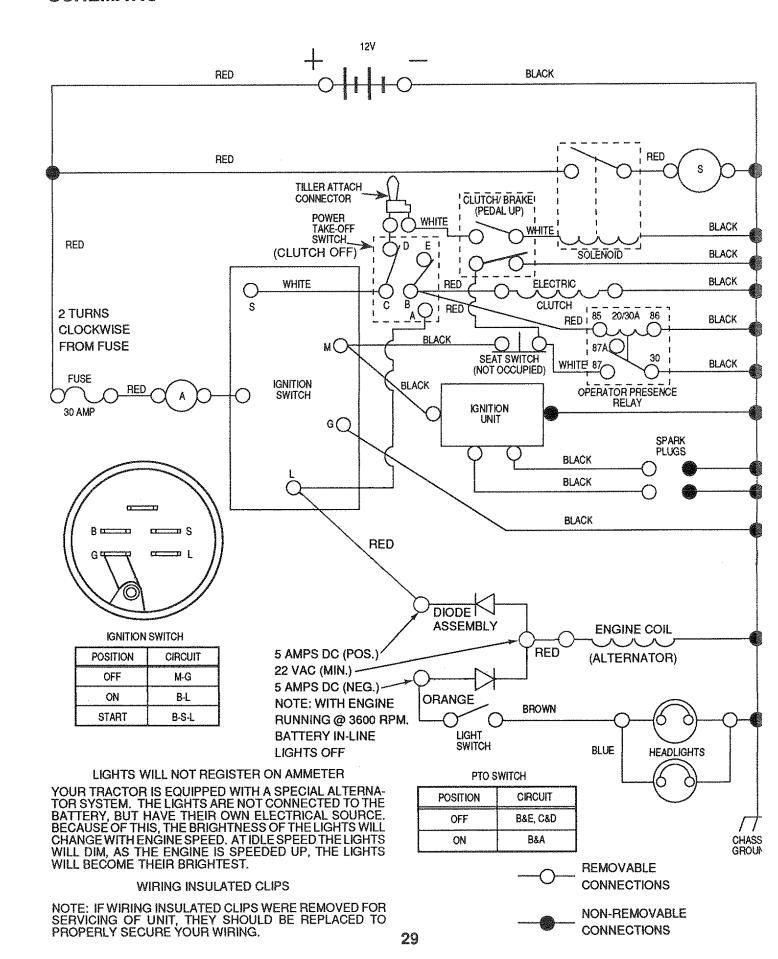
WON'T CHARGE - Check Fuse for fault and replace

Replace Battery

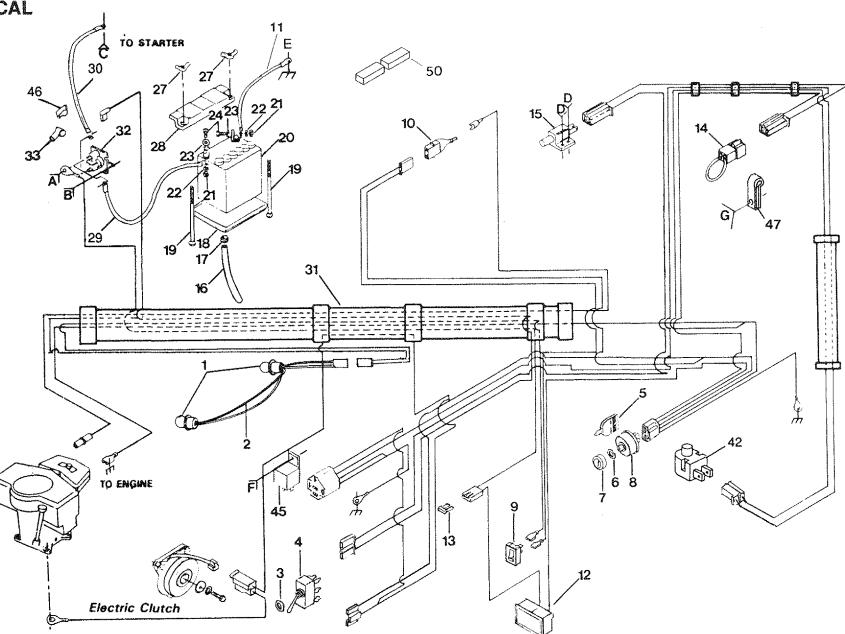
# **TROUBLESHOOTING**

	1	Replace Regulator
		Replace Alternator
ENGINE WILL NOT SHUT DOWN		
WHEN OPERATOR LEAVES SEAT		
WITH ATTACHMENT CLUTCH ENGAGED	<b>197</b>	NOTE: This tractor is equipped with an operator presence sensing system. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut down the engine.
RA SHALL	<b>18</b>	Check all Wire connections
	MF.	Check Seat Switch
di Managara	<b>**</b>	Check Operator Presence Relay
November 1994		Check PTO Switch
UNSATISFACTORY MOWER PERFORMANCE		
UNEVEN DISTRIBUTION OF CLIPPINGS	**	Place Throttle Control in "FAST" position
	6 <del>6</del>	Check air pressure in Tires
ANGER PROPERTY OF THE PROPERTY	细	Check front-to-rear and side-to-side Mower adjustment
	100	Use a slower ground speed
Name of the state		Replace Mower Blades
	16 <b>8</b> 7	Reinstall Mower Blades with Sharp Edge down
AND THE PROPERTY OF THE PROPER	<b>1997</b>	Replace with proper Mower Blades
A STATE OF THE STA	100	Readjust Mower Drive Belt
	<b>165</b> °	Clean underside of Mower Deck
MOWER BLADES WILL NOT ROTATE	100	Correct Clutch mechanism interference
	1887	Install new Mower Drive Belt
	<b>**</b>	Adjust Mower Drive Belt
	465	Replace frozen Mandrel
	100	Replace frozen Idler Pulley
EXCESSIVE MOWER VIBRATION	***	Replace bent or unbalanced Blades
	<b>10</b>	Replace Mandrel. Replace Deck
WINDROWING STRIPPING OR		
DROPPING OF GRASS CLIPPINGS	<b>187</b>	Set Throttle for maximum engine speed
	1687	Let grass dry out
		Clean underside of Mower Deck
	100°	Readjust Mower front-to-rear and side-to-side
		Replace Blades
UNEVEN CUT OR SCALPING		Readjust Mower front-to-rear and side-to-side
		Replace Blades
	<b>148</b>	Replace bent Mandrel(s)
	******	

# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 SCHEMATIC







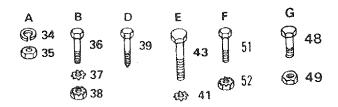
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# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 ELECTRICAL

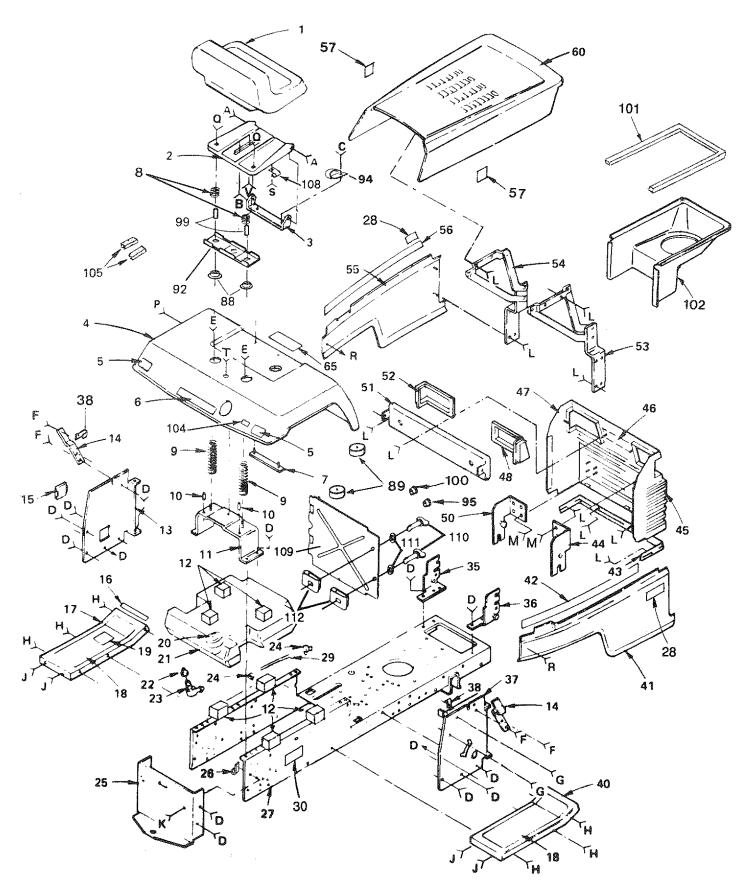
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
4	4152J	Bulb - Light	28	102476X	Guard - Terminal
7	110859X	Harness - Light Socket	29	4207J	Cable, Ground
2		Nut - Hex	30	4206J	Cable - Battery
3	4022J	Switch - Attachment Clutch	31	125619X	Harness - Ignition
4	4021J		32	109081X	Solenoid
5	109 310X	Key Set	33	719Ĵ	Cover - Terminal
6	109788X	Nut - Ignition	34	10090400	Washer - Lock 1/4
7	109787X	Bezel - Ignition	35	STD541225	*Nut - Jam 1/4 - 20
8	4406R	Switch - Ignition	36	74780408	*Bolt - Hex 1/4 - 20 x 1/2 Gr. 5
9	110712X	Switch - Light	37	11050400	Washer - Lock - Ext. Tooth 1/4
10	106315X	Diode Assembly	38	73510400	Nut - Keps 1/4 - 20
11	4799J	Cable, Battery	39	17021008	Screw - Tap Hex Head 10 - 24 x 1/2
12	122822X	Anmeter Fuse - 30 Amp	00	77.02.1000	Type T
13	108824X	•	41	11050600	Washer - Lock - Ext. Tooth 3/8
14	102501X	Wire Loop Switch - Interlock , Clutch Pedal	42	121305X	Switch Assembly
15	109553X	Tube - Battery Tray	43	STD523710	* Bolt, Fin. Hex 3/8 - 16 x 1
16	100541X		<i>45</i>	109748X	Relay Assembly
17	109596X	Clamp · Hose	46	2751R	Clip, Fuel Line
18	7603J	Tray - Battery Bolt - Rd. Hd. Sq. Nk. 1/4 - 20 x 7-1/2	47	235R	Clip, Insulated
19	72240460		48	74780408	Bolt 1/4 - 20 x 1/2
20	121537X	Battery *N. J. Mar. 1/4 20	49	76380400	Nut - Crownlock 1/4 - 20
21	STD541025	*Nut - Hex 1/4 - 20	50	121264X	Rattery Cabs
22	STD551125	*Washer - Lock 1/4 *Washer 9/32 x 5/8 x 16 Ga.	÷ 51	71031008	Screw, Hex Washer Hd. 10 -32 x 1/2
23	STD551025		52	73951000	Keps Nut 10 - 32 UNF
24	74760412	*Bolt - Hex 1/4 · 20 x 3/4	J&	101539X	Sheet - Instruction, Tractor 150 Slope
27	123198X	*Nut - Wing 1/4 - 20		126409X	Owners Manual

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

\*STANDARD HARDWARE-PURCHASE LOCALLY



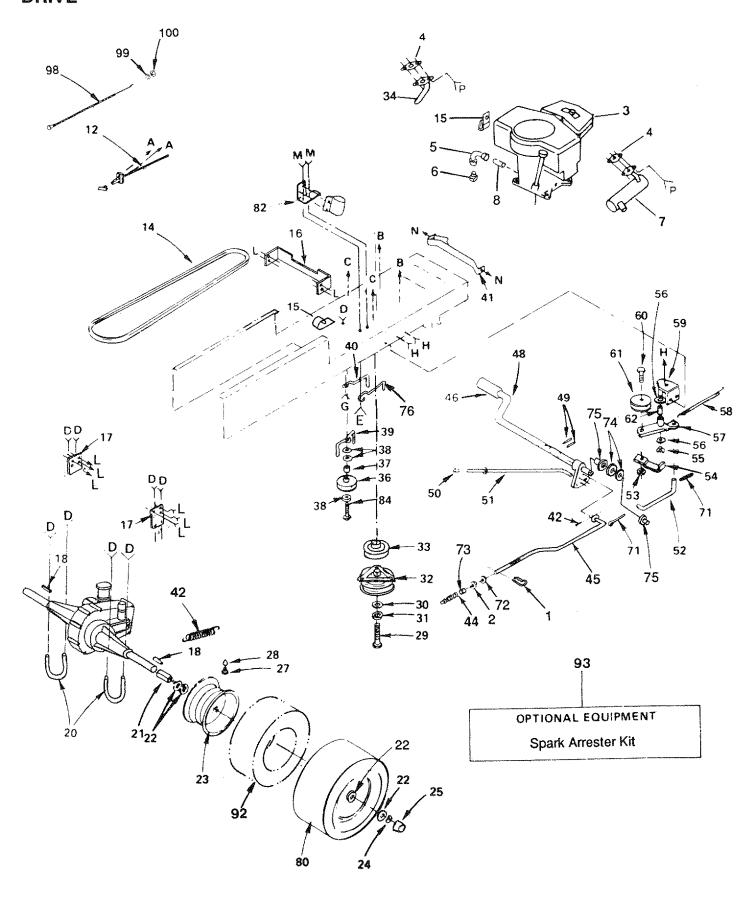
# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 CHASSIS



# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 CHASSIS

	J - J 5 - J					
KEY NO.	PART NO.	DESCRIPTION		KEY NO.	PART NO.	DESCRIPTION
1	120039X	Seat		61	105529X	Bolt - Shoulder 5/16 - 18
2	124294X	Pan - Seat		62	73680500	Nut - Lock 5/16 - 18
3	105513X	Bracket - Pivot - Seat		63	STD551150	*Washer - Lock 1/2
4	121642X	Fender		65	106974X	Decal
				66	73680600	Nut - Lock 3/8 - 16
5	106202X	Reflector - Rear				
6	105801X	Decal		67	17490612	Screw - Hex Washer Thread Rolling
7	105511X	Strap - Fender				$3/8 \cdot 16 \times 3/4$
8	121250X	Spring - Compression		68	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
9	124181X	Spring - Compression - R.H.		69	STD523710	*Bolt - Hex 3/8 - 16 × 1
10	105531X	Nut - Push		70	72170410	Bolt carriage 1/4 x 1 - 1/4
11	105509X	Bracket - Fender		71	STD533707	*Bolt - Carriage 3/8 - 16 x 3 4
12	106082X	Pad - Spacer		72	<i>STD523707</i>	*Bolt - Hex 3/8 - 16 × 3/4
13	124118X	Panel - Dash - L.H.		73	19131312	Washer 13/32 x 13/16 x 12 Ga.
14	105525X	Bracket - Support - Dash		74	STD522505	*Bolt - Hex 1/4 - 20 x 1/2
15	121794X	Cover - Access		75	73680400	Nut - Hex 1/4 - 20
16	4900J	Decal - Clutch/Brake		76	108067X	Pal Nut
17	105465X	Footrest - L.H.		78	17490612	Screw - Hex Washer Thread Rolling
18	105466X	Pad - Footrest		70	77450072	3/8 · 16 × 3 <b>/</b> 4
19		Decal - Drive Belt		20	47400000	
	121215X			80	17490608	Screw, Hex Wsh. Thd. Roll.
20	123549X	Cap - Fuel				3/8 -16 x 1/2
21	106020X	Tank - Fuel		81	17490616	Screw 3/8 - 16 x 1/2
22	3645J	Bushing		84	123976X	Nut, Hex, Large Flangelock
23	8710J	Stem - Tank, Fuel		85	106909X	Screw - Special
24	123487X	Clamp - Hose		86	106910X	Washer
25	121306X	Drawbar		87	108402X	U-Clip
26	235R	Clip - Insulated		88	121248X	Bushing, snap
27	121277X	Chassis Assembly		89	124238X	Cap - Spring
28	125963X	Decal, Automatic		92	121246X	Bracket, switch mount
29	5277J	Line - Fuel		94	2751R	Clip
30	120166X	Decal, Chassis		95	110436X	Grommet - Split
				96	19131614	Washer 13/32 x 1 x 14 Ga.
31	120579X	Pal Nut				
35	109015X	Bracket - Pivot - L.H.		97	74780816	Bolt 1/2 · 13 × 1
36	109016X	Bracket - Pivot - R.H.		98	121144	Shoulder Bolt
37	110828X	Panel - Dash - R.H.		99	121249X	Spacer, Split
38	5320R	Clip - Insulated		190	9151R <b>106817X</b>	Grammet <b>Foam Strip</b>
40	105464X	Footrest - R.H.		101 102		•
41	108403X	Panel - Side - R.H.			105953X	Air Duct
42	106814X	Decal - Stripe, Side Panel - R.H.		104	750211	Decal made in USA
43	110350X	Strap Assembly - Grill		105	121251X	Foam strip 9/32 ID x 3/8
44	108512X	Bracket - Pivot - R.H.		106	74641008	Slotted pan HD, screw 10 -32 x 1/2
45	105568X	Decal - Stripe		107	73951000	Nut keps 10-32 UNF
46	105806X	·		108	4171R	Clip insulated
47		Decal		109	108105X	Heat Shield
	105528X	Grill		110	123650X	Stud, 1/4 Turn
48	106003X	Lens - R.H.		111	105838X	Retainer, 1/4 Turn
50 51	108513X	Bracket - Pivot - L.H.	,	112	105839X	Receptacle, 1/4 Turn
<i>51</i>	110897X	Bezel - Headlight				Bolt, Fin. Hex. 3/8 - 16 UNC x 1
52 52	106004X	Lens - L.H.		114	74760616	
53	106091X	Hinge - R.H.		115	19131316	Washer 13/32 x 13/16 x 16 Ga.
54	106090X	Hinge - L.H.	*	STAMP	A R D H A R D W A R	REPURCHASE LOCALLY
55	108410X	Panel - Side - L.H.		SIMINUM	THE HAMDINAL	TEN ONCHASE EDUALE
56	106813X	Decal - Stripe, Side Panel - L.H.	1	NOTE:	All component (	dimensions given in U.S. inches.
57	126312X	Decal, 18 HP	•		•	
60	106013X017	Hood			1  inch = 25.4  m	(1)
	А В	CDEFG				-
					J K	LPQR
9	61 97	<b>6</b> 6 6 6	69	)) (c	72 74 75	Ø 76 ₱80 ₽ 70 P
	61 <b>1</b> 97	67 @ 96 8 69	69	71	72 74 74 75 75 73 W	
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	988				114	■ 81 <b>● 87</b> ⑤ 115
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			<b>J</b>			

# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 DRIVE

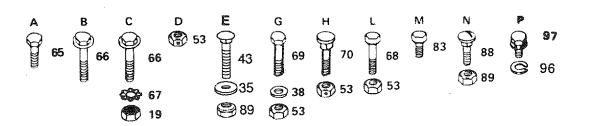


50 124236X

Cap

# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 DRIVE

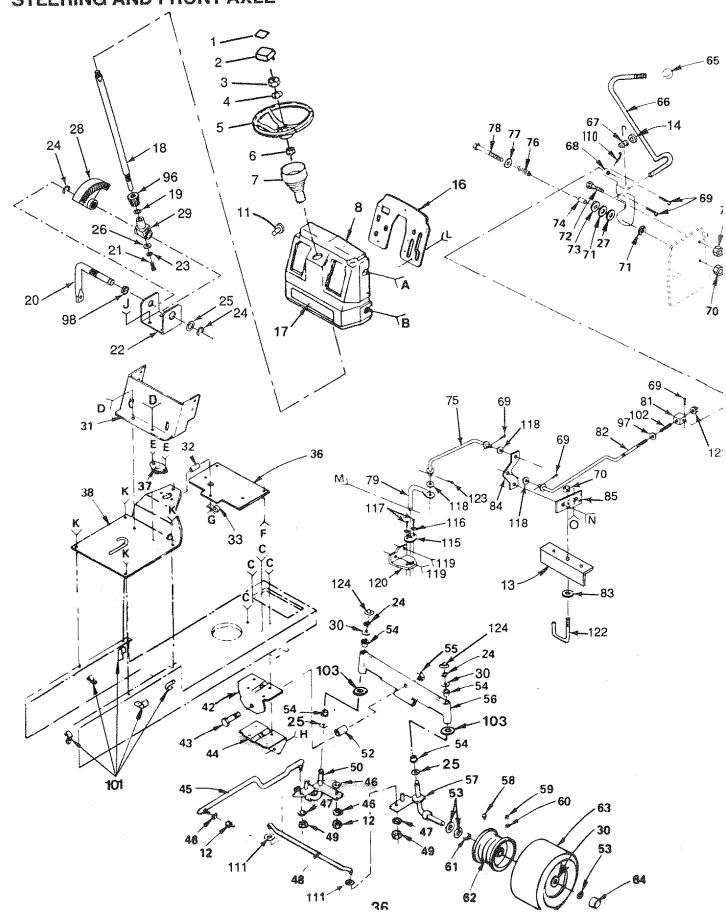
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
4	4497H	Clip, Hairpin	51	125637X	Rod, Brake, Park
1	1913136	Washer 13/32 x 13/16 x 16 Ga.	52	105710X	Link, Clutch
2 3		Engine, 18 H.P. Briggs and Stratton	53	73680600	Nut, Lock 3/8 - 16
3	124148X	Model Number 422707, Type		123205X	Retainer, Belt
		Number 1513-01	55	12000039	Klip Ring
A	05451		56	110812X	Washer, Hardened
4 5	<i>8545J</i> 13200300	Gasket Elbow, STD 90° 3/8 - 18 NPT	57	123789X	Arm, Idler
5 6	13200300	Plug, Pipe (Not Serviced, see page	58	105709X	Spring, Return, Clutch
D		47 for part_number)	59	123102X	Bracket, Clutch
7	108373X	Muffler	60	STD523715	* Bolt, Hex 3/8 - 16 x 1-1/2
7 8	13280336	Nipple	61	123766X	Pulley, Idler
0 12	124559X	Control, Throttle/Choke	62	105706X	Bearing
	123461X	V-Belt Drive	65	17720410	Screw, Hex Thd. Cut 1/4 - 20 x 5
	2751R	Clip, Insulated	66	17490624	Bolt, Hex Washer Thread Rolling
15 16	121187X	Bracket, Mounting, Hydro			3/8 - 16 x 1-1/2
17	121191X	Bracket, Transaxle	67	11050600	Washer, Lock External Tooth 3/8
	123583X	Key, Square 2.5 x .1845/ .1865	68	STD523707	* Bolt, Fin. Hex 3/8 - 16 UNC x 3/4
	73510600	Nut, Keps 3/8 - 16	69	STD523710	* Bolt, Hex 3/8 - 16 x 1
	121189X	U-Bolt 3/8 - 16 x 2-7/8	70	STD533707	* Bolt, Carr. 3/8 - 16 x 3/4
	121199X	Spacer, Split	71	76020412	Pin, Cotter 1/8 x 3/4
	121748X	Washer 25/32 x 1-5/8 x 16 Ga.	72	STD541437	* Nut, Lock Hex with Washer Inser
1/ 23	106108X	Rim, Rear, 8"			3/8 - 16
水岩	12000001	E-Ring	73		* Nut, Hex Jam 3/8 x 16
	104757X	Cap, Hub, Rear	74	STD551062	* Washer 21/32 x 1 x 16 Ga.
27 27	65139	Stem, Valve	75	120183X	Bearing, Nylon
28	59192	Cap, Valve	76	105730X	Keeper, Belt, Engine, RH
29 29	74610764	Bolt, Hex 7/16 - 20 x 4	80	106268X	Tire 18 - 9.50 x 8
30	126197X	Washer 1-1/2 x 15/32 x 1/4	82	108236X	Bracket, Switch
31	10040700	Washer, Lock 7/16	83	17021008	Screw, Tapered Hex Head
32	126112X	Clutch, Electric			No. 10 - 24 x 1/2 Type T
33	109841X	Pulley, Engine	84	74760644	Bolt, Hex 3/8 - 16 x 2-3/4
34	100229L	Tube Assembly, Exhaust	88	72140506	Bolt, Round Head, Square Neck
35	19111212	Washer 11/32 x 3/4 x 12 Ga.			5/16 - 18 x 3/4
36	123674X	Idler, Flat	89	73680500	Nut, Lock 5/16 - 18
37	4470J	Spacer	92	7152J	Tube (Not furnished with Tractor,
38	19131312	Washer 13/32 x 13/16 x 12 Ga.	93	677V1	Spark Arrester Kit
39	109070X	Keeper, Belt	96	STD551125	* Washer, Lock, Heavy Helical Spi
40	121218X	Keeper, Belt, Engine, L.H.	97	STD522507	* Bolt, Fin. Hex 1/4 - 20 x 3/4
41	109169X	Locator, Clutch	98	121522X	Control, Choke
42	110422X	Spring, Brake Return	99	11050600	Washer, Lock External Tooth 3/l
43	74760516	Bolt, Hex 5/16 - 18 x 1	100	73610600	Nut, Fin. Hex 3/8 - 24 UNF
44	106888X	Spring, Rod, Brake			
45	121200X	Rod, Brake			
46	8883R	Cover, Pedal			
48	122424X	Shaft, Foot Pedal			
49		* Pin, Roll 3/16 x 1	* ST.	ANDARD HAF	RDWARE PURCHASE LOCALL
	404000V	Con			



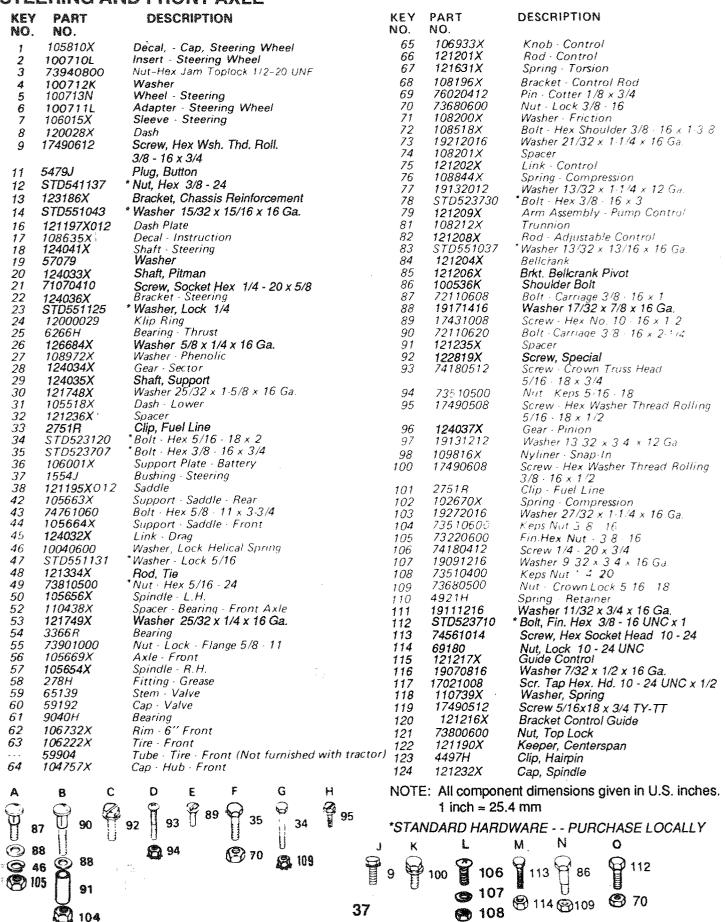
NOTE: All component dimensions given in U.S. inche

1 inch = 25.4 mm

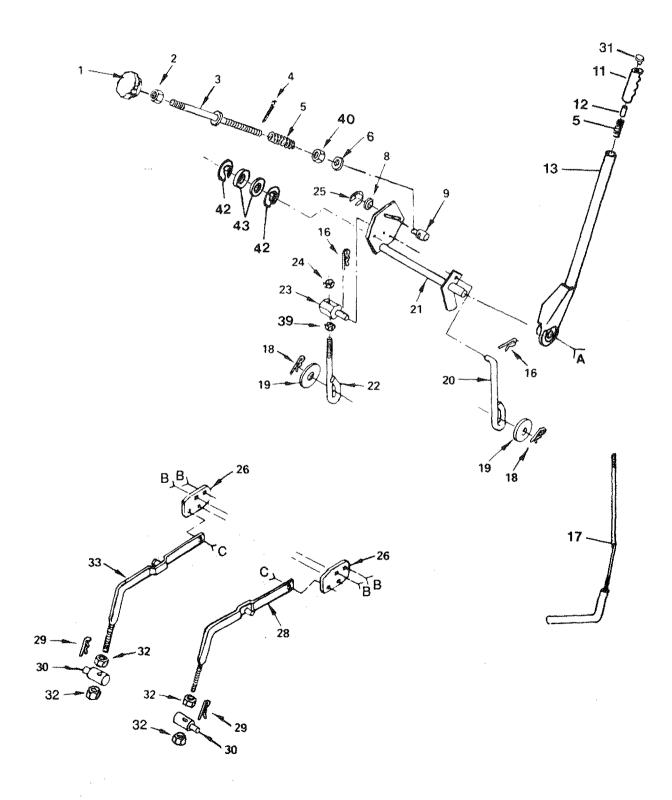
18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 STEERING AND FRONT AXLE



# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 STEERING AND FRONT AXLE



# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 LIFT ADJUSTMENT

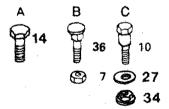


# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 LIFT ADJUSTMENT

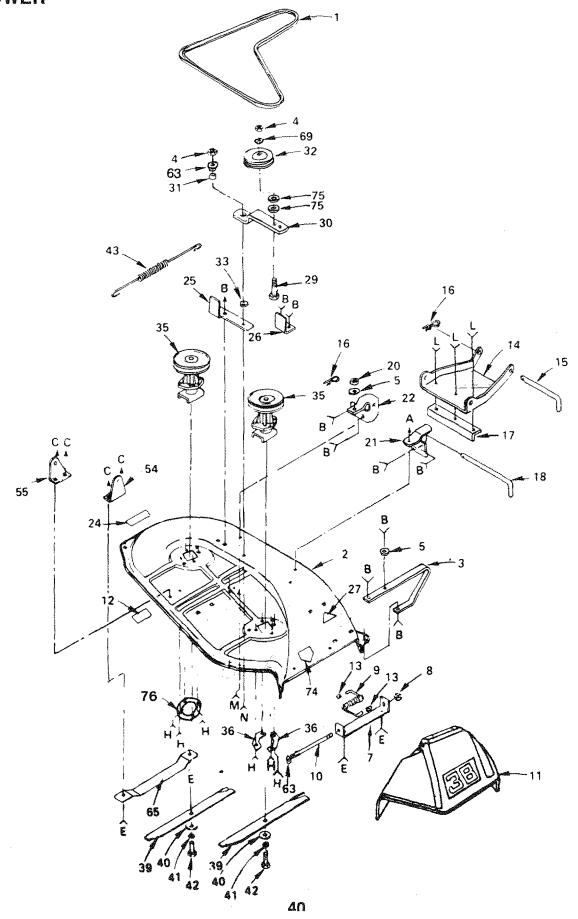
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	100734K	Knob, Height Adjustment	22	110448X	Link, Lift Adjust
2	STD541237	*Nut, Jam 3/8 - 16	23	110447X	Trunnion, Lift
3	110729X	Rod, Adjust, Lift	24	73710700	Nut, Crownlock 7/16 - 20 UNF
4	76020308	Pin, Cotter 3/32 x 1/2	25	12000037	Klip Ring
5	2876H	Spring	26	105864X	Bracket, Suspension
6	19131016	Washer 13/32 x 5/8 x 16 Ga.	27	110739X	Washer, Spring
7	73680600	Nut, Lock 3/8 - 16	28	121598X	Arm, Suspension, R.H.
8	19151216	Washer 15/32 x 3/4 x 16 Ga.	29	9135R	Retainer Spring
9	110810X	Trunnion	30	106308X	Trunnion, Lift, Lower
10	105848X	Bolt, Shoulder 3/8 - 16	31	122365X	Button, Plunger
11	125631X	Grip, Handle	32	STD541050	*Nut, Hex Fin. 1/2 - 13
12	122364X	Plunger, Lever	33	121599X	Arm, Suspension, L.H.
13	121002X	Lever, Lift (Inc. Key No. 17)	34	73980600	Nut, Lock, Flange 3/8 - 16
14	74780624	Bolt 3/8 · 16 x 1·1/2	36	STD533707	*Bolt, Carriage 3/8 - 16 x 3/4
16	4939M	Retainer Spring	39	73360700	Nut. Hex Jam 7/16 - 20 UNF
17	121006X	Rod, Lever	40	110807X	Nut, Special
		·			, * -*
18	4921H	Retainer Spring	42	12000022	E-Ring
19	19171516	Washer 17/32 x 15/16 x 16 Ga.	43	19292016	Washer
20	110029X	Link, Lift			
21	121000X	Shaft, Lift			

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

\*STANDARD HARDWARE--PURCHASE LOCALLY



18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 38" MOWER

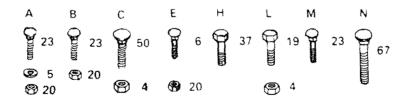


# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 38" MOWER

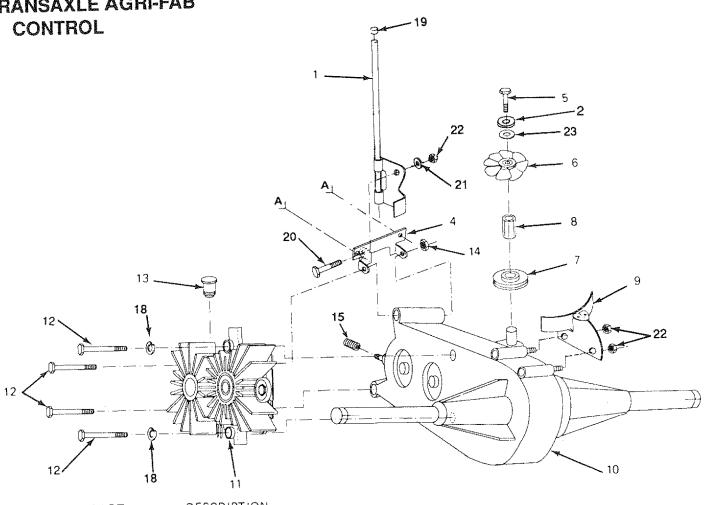
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	106085X	V-Belt	27		Decal, Safety Std. (Not Serviced)
2	121458X	Housing	29	7476063 <b>6</b>	* Bolt 3/8 - 16 x 2
3	8417J	Runner, R.H.	30	123552X	Arm, Idler
4	73680600	Nut, Lock 3/8 - 16	31	106902X	Spacer
5	19111216	Washer 11/32 x 3/4 x 16 Ga.	3 <i>2</i>	121316X	Pulley, Idler
6	72140505	Bolt, Carriage 5/16 - 18 x 5/8	33	106513X	Washer, Wear 1/16"
7	105896X	Bracket, Deflector	35	121687X	Mandrel Assembly
8	110452X	Pushnut	<i>36</i>	100668L	Plate, Support, Mandrel
9	106734X	Spring, Deflector	37	17490614	Screw, Hex Washer Hd.
10	106735X	Rod, Hinge			3/8 - 16 × 3/4
11	106736X	Deflector, Shield	39	122264X	Blade, Mower 3/4 Lift
12	108682X	Decal V-Belt Drive,	40	19132012	Washer 13/32 x 1-1/4 x 12 Ga
13	105304X	Cap Sleeve:	41	10030600	Washer, Lock 3/8
14	105662X	Link, Parallel	42	74610624	* Bolt, Hex 3/8 - 24 x 1-1/2 Gr. 5
15	105744X	Pin - Hinge, Front	43	102727X	Spring, Extension
16	4921H	Spring - Retainer	50	72140606	* Bolt, Carriage 3 /8 - 16 x 3:4
17	105872X	Stop, Link	54	105857X	Bracket, Susp., Rear, R.H.
18	109835X	Pin - Hinge, Rear	55	108673X	Bracket, Susp., Rear, L.H.
19	74760612	* Bolt, 3/8 - 16 x 3/4	63	19111016	Washer 11/32 x 5/8 x 16 Ga.
20	73680500	Nut, Lock 5/16 - 18	65	7631J	Runner, L.H.
21	109598X	Bracket, Lift, R.H.	67	72140610	Bolt, Carriage 3/8 - 16 x 1-1 4
22	109597X	Bracket, Lift, L.H.	69	19131316	Washer 13/32 x 13/16 x 16 Ga.
23	72140506	* Bolt - Carriage 5/16 - 18 x 3/4	74	121343X	Decal - Warning
24	3713J	Instruction - Caution Decal	75	19131210	Washer 13/32 x 3/4 x 10 Ga.
25	109503X	Support Arm	<i>76</i>	110445X	Plate, Support Mandrel
26	109504X	Stop, Deck, Front		122217X	Mower Assembly Complete

\*STANDARD HARDWARE--PURCHASE LOCALLY

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

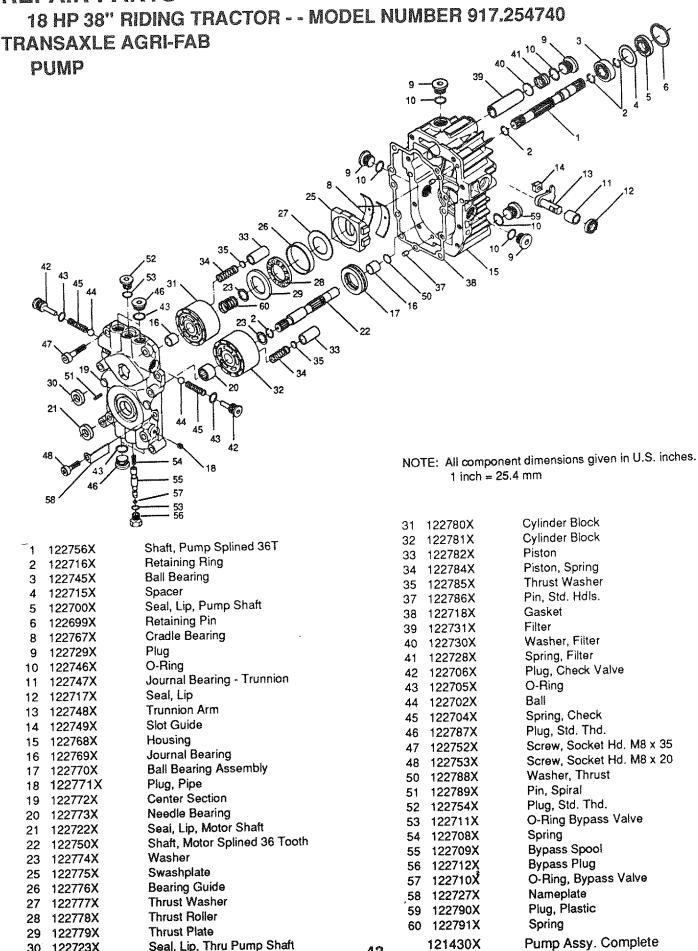


18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 TRANSAXLE AGRI-FAB



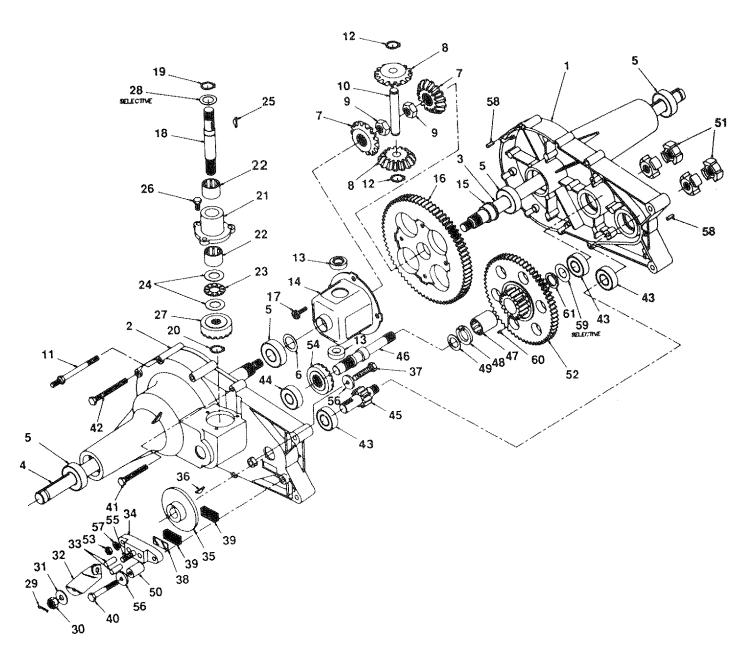
KEY NO.	PART NO.	DESCRIPTION	
1	123634X	Control Assembly, Free Wheel	
2	STD551125	* Washer, Lock, Hvy. Helical Spring	
4	121188X	Bracket, Pnt. Mounting Differential	
5	74760412	Bolt, Hex Hd. 1/4" - 20 UNC x 3/4	
6	121186X	Fan, Hydro 8"	
7	121180X	Pulley, Transaxle	
8	121211X	Standoff, Fan Hydro	Δ.
9	121182X	Guard Assembly, Belt	A
10		Differential Assembly See pages 44	& <sup>45</sup>
11		Pump Assembly See page 43	Ų
12	74760572	Bolt, Hex Fin. 5/16 - 18 UNC x 4.5	<b>❷</b> :17
13	121323X	Reservoir Pump	
14	73680500	Nut, Crown Lock 5/16 - 18	
15	121250X	Spring, Compression	
16	STD523707	Bolt, 3/8 - 16 x 3/4	
17	73680600	Nut 3/8 - 16 UNC	
18	10040500	Lockwasher	
19	71673	Cap	and all sinches
20	7605J	Bolt shoulder 1/4 - 20 UNC	NOTE: All component dimensions given in U.S. inches.
21	120529X	Washer, nylon	1 inch = 25.4 mm
22	73680400	Nut, Crown lock 1/4 - 20 UNC	
23	19092016	Washer 9/32 x 1 - 1/4 x 16 ga.	

30 122723X



43

18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740
RANSAXLE AGRI-FAB
DIFFERENTIAL

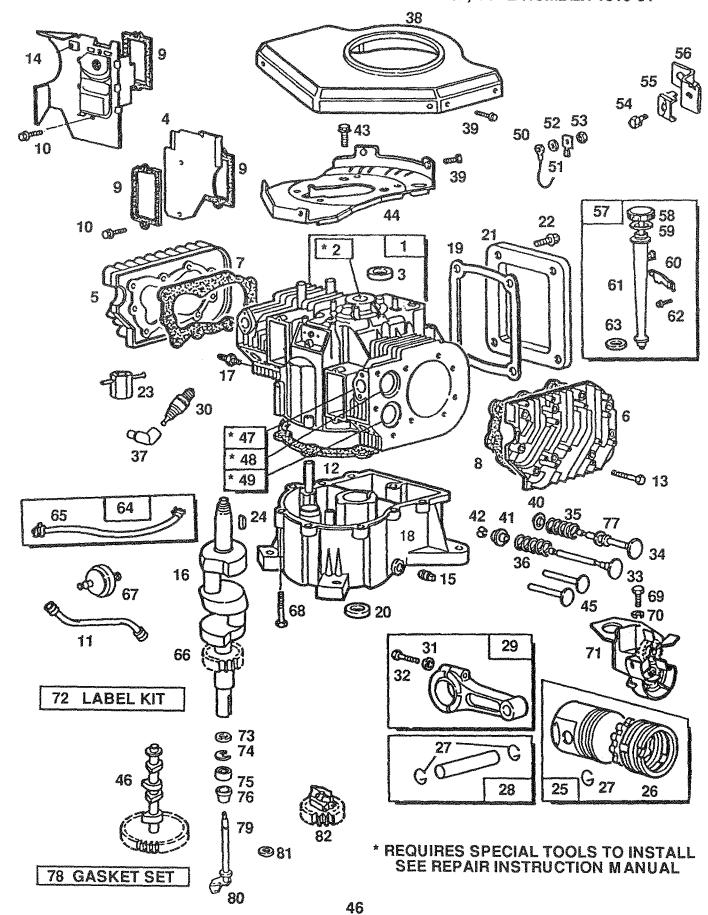


# 18 HP 38" RIDING TRACTOR - - MODEL NUMBER 917.254740 TRANSAXLE AGRI-FAB DIFFERENTIAL

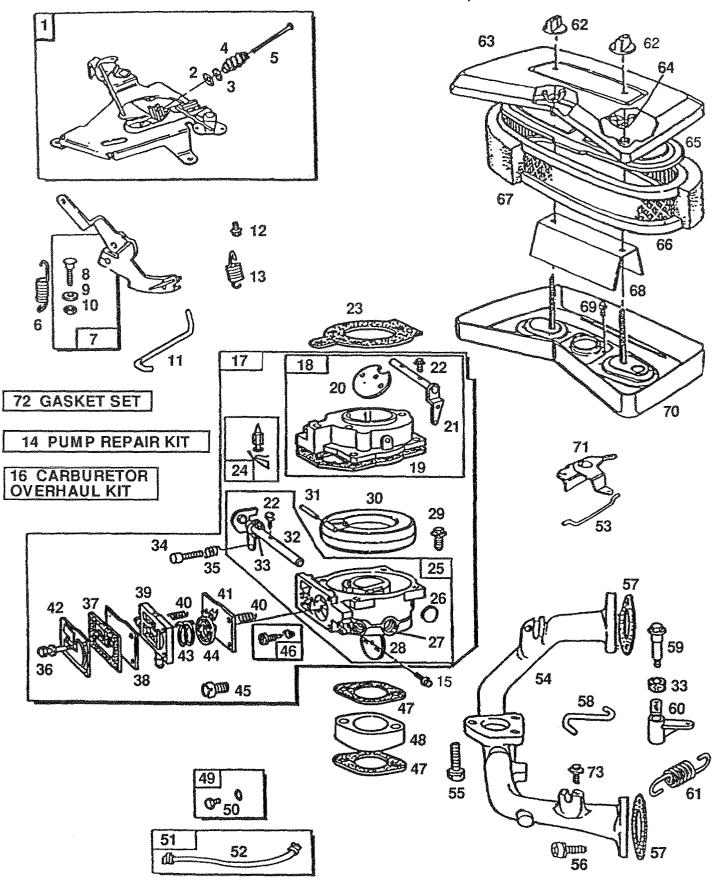
REF	PART NO	DESCRIPTION			
1	122614X	Housing, Half L.H.	31 13	22659X	Washer, Flat .343 x .88 x .062
2	122615X	Housing, Half R.H.	32 12	22660X	Arm, Brake Actuator
.3	122616X	Axle L.H.		22662X	Pin, Brake Actuating
4	122620X	Axle R.H.	34 1	22663X	Brake, Yoke
5	122621X	Bearing, Ball	35 1	22664X	Disc, Brake
6	122622X	Washer, Flat 3/4 x 1 - 1/8 x .030	36 13	23065X	Key 3/16 x 5/8
7	122623X	Gear, Miter	37 1.	22666X	Screw, Hex 1/4 - 20 x 1.50
8	122624X	Gear, Miter	38 1	22667X	Plate, Puck
9	122625X	Nut, Hex Jam W/Patch 1/2 - 20	39 1	22668X	Puck, Brake
10	122626X	Shaft, Cross	40 1	23066X	Screw, Hex W/Patch 1/4 - 20 x 2.00
11	122688X	Screw, Stud	41 1	22670X	Screw, Hex Self-Tap 1/4 - 20 x 2.00
12	122629X	Snap Ring	42 1	22671X	Screw, Hex Self-Tap 1/4 - 20 x 3.00
13	122631X	Bearing, Thrust	43 1	22672X	Bearing, Ball
14	122633X	Housing Assembly, Differential	44 1	122673X	Bearing, Ball
15	122634X	Bearing, Flange	45 1	122674X	Shaft, Pinion N/11 Tooth Gear
16	122640X	Gear, Differential 72 Tooth	46 1	122675X	Shaft, Drive
17	122641X	Screw, Pan Hd. W/Patch 1/4 - 20 x .500	47 1	123059X	Bearing, Needle
		Lg.	48 1	23060X	Bronze Thrust Brg. 5/8 x 11/4 x 7/64
18	122642X	Shaft, Input	49 1	122654X	Washer, Flat .62 - 1.0 x .040
19	122643X	Snap, Ring	50 1	122689X	Spacer
20	122644X	Retaining Ring 7/16*	51 1	121839X	Coupling
21	122645X	Housing, Input Bearing	52 1	122681X	Gear, 60 & 17 Tooth
22	122646X	Bearing, Needle	53 1	122682X	Nut, Hex 1/4 - 20
23	122647X	Bearing, Thrust	54 1	122683X	Gear, Drive Pinion 17 Tooth
24	122648X	Washer, Flat 5/8 x 1 - 1/8 x .030	55	122684X	Bolt, Square Head
25	122649X	Key #4, 3/32 x 5/8	56	122685X	Washer 15/16 x .265 x .125
26	122650X	Screw, Hex W/Patch 1/4 x 3/4	57	122686X	Washer 1/4" Spring Lock
27	122651X	Gear, Input Pinion 17 Tooth	58	122687X	Pin, Roll 3/16" x 1/2" Lg.
28	122652X	Washer, Flat .62 - 1.0 x .030	59	122678X	Washer, Flat 5/8 x 1 - 1/8 x .060
	122653X	Washer, Flat .62 - 1.0 x .020		123061X	Washer, Flat 5/8 x 1 x .050
* **	122654X	Washer, Flat .62 - 1.0 x .040	60	123062X	Pin,Dowel 3/32 x 1/4
29	122656X	Pin, Cotter	61	123063X	Seal, Grease
30	122658X	Nut, Castle 5/16 - 24	1	121431X	Transaxle Assy. Complete

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

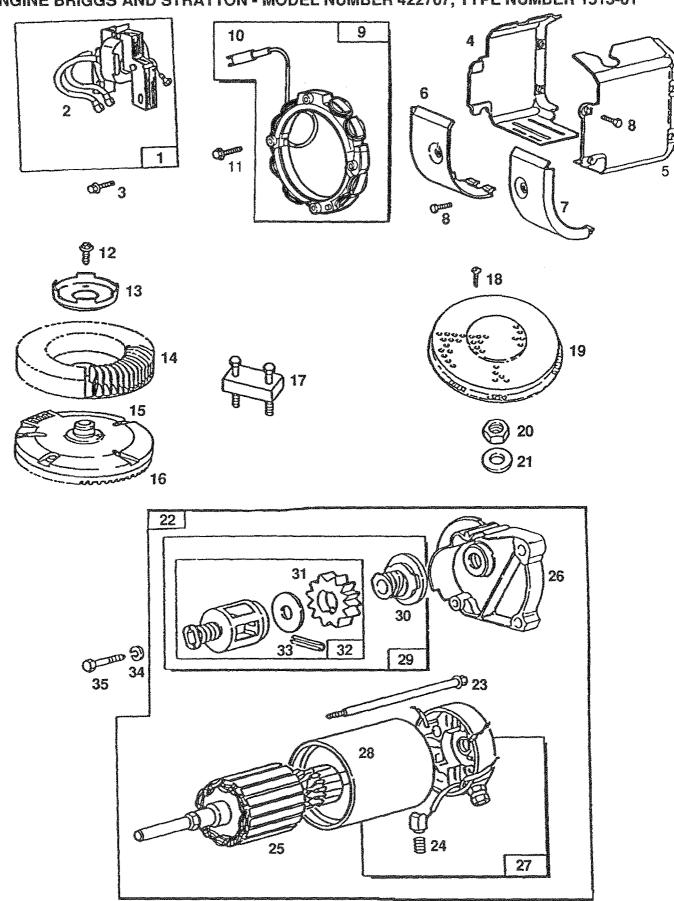
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KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	491730	Cylinder Assembly	39	93559	Screw, Sem
ż	399265	Bearing, Cylinder		221596	Retainer, Intake Valve
$\tilde{\mathfrak{z}}$	391086	Seal, Oil	41	292260	Rotocoil, Exhaust Valve
4	224362	Baffle, Air (Cylinder #2)	42	93630	Retainer, Exhaust Valve Rotocoil(2)
5	493457	Head, Cylinder #1	43	93777	Screw, Hex Head (Back Plate to
6	493458	Head, Cylinder #2	70	30111	Cylinder)
7	271867	* Gasket, Cylinder Head #1	44	491304	Back Plate Assembly
	271868	* Cacket Culinder Head #7		261368	
8		* Gasket, Cylinder Head #2	45 46		Tappet, Valve
9 10	27803 94382	* Gasket, Valve Cover	47	212337 261961	Gear, Cam Guide, Exhaust Valve
		Screw, Sem	4/		
11 12	280225	Tube, Breather * Cooket, Crapkonso Cover, 1/64"		231218	Guide, Intake Valve (See Repair
12	271142 271188	* Gasket, Crankcase Cover, 1/64" * Gasket, Crankcase Cover, .005"	48	261463	Manual) Soat Intako Valvo (Standard)
	271189	* Gasket, Crankcase Cover, .009"	49	213316	Seat, Intake Valve (Standard) Seat, Exhaust Valve (Standard)
12			50	391115	
13	94565	Screw, Cylinder Head			Wire, Ground
14	393370	Breather Assembly	51 52	92791	Washer, Lock, Shakeproof
15	91084	Plug, Oil Drain		93722	Terminal, Spade
16	394028	Crankshaft (NOTE: Order Part No.	53	90576	Nut, Hex 8/32
47	000040	94196 for Timing Gear Key	54 55	93496	Screw, Hex Head
17	230318	Connector, Impulse Pump	<i>55</i>	221535	Clamp, Casing
18	393552	Base Assembly, Crankcase	<i>56</i>	223890	Bracket, Cable
19	270981	* Gasket, Crankcase	<i>57</i>	394394	Dipstick and Tube Assembly
20	291675	Seal, Oil	<i>58</i>	394020	Cap and Dipstick, Oil Filler
21	212455	Cover Plate, Crankcase	<i>59</i>	271170	Seal, Oil Filler Cap
22	90887	Screw, Crankcase Cover Mtg. Sem	60	222875	Clamp, Oil Filler
00	00000	(Uses 92268 Lockwasher)	61	280224	Tube, Oil Filler
23	89838	Wrench, Spark Plug	62	94166	Screw, Hex Head
24	222698	Key, Flywheel	63	271157	Seal, Filler Tube
25	394955	Piston Assembly, Standard	64 65	299146	Line, Fuel, 28" (Cut to Req. Length)
	394956	Piston Assembly, .010" O.S.	<i>65</i>	93053	Clamp, Fuel Line
	394957	Piston Assembly, .020" O.S.	66 67	231445	Gear, Timing
26	394958	Piston Assembly, .030" O.S.	67	394358	Filter, Fuel (In Fuel Line to Tank)
26	394959	Ring Set, Piston, Standard	68 60	93585	Screw, Hex Head Sem
	394960	Ring Set, Piston, .010" O.S.	<i>69</i>	93686	Screw, Hex Head 10 - 32 x 5/8
	394961	Ring Set, Piston, .010" O.S.	70	92290	Washer, Lock No. 10 x 1/16 x 3/64
27	394962	Ring Set, Piston, .010" O.S.	71	393415	Oil Slinger Assembly
27	260924	Lock, Piston Pin		491262	Label Kit
28	299691	Pin Assembly, Piston, Standard	<i>73</i>	491287	Seal, Governor Shaft
20	391286	Pin Assembly, Piston, .005" O.S.	74	94296	Retainer, E-ring
29	394306	Rod Assembly, Connecting (NOTE:	75 70	262331	Upper Bushing, Governor
		For Connecting Rod with .020"	<i>76</i>	262332	Lower Bushing, Governor
		Undersize Crankpin Bore, Order	<i>77</i>	393606	Seal Assembly and Retainer
00	000500	Number 397158)	<i>78</i>	394501	Gasket Set
30	802592	Plug, Spark (Resistor Type with	<i>79</i>	491530	Crank, Governor
24	220000	Gasket)	80	223882	Washer, Governor Crank (Inside)
31	220863	Washer 1/4 x 5/8 x 1/32	81	222773	Washer, Thrust
32 33	92909	Screw, Connecting Rod	82	394348	Gear, Governor
	390420 261528	Valve, Exhaust			
<i>J4</i>	201020	Valve, Intake (Uses 393606 Seal Assembly and Retainer; Reference Number 868)	* Inc	cluded in Gas	ket Set, Part Number 394501
35 36	65906 26828	Spring, Intake Valve Spring, Exhaust Valve	Asse	mblies includ	le all parts shown in frames
37	66538	Elbow, Spark Plug	NIOT	E. All compo	ment dimensions aiven in LLS inches
38	491247	Housing, Blower	IVUI	1 inch = 2	nent dimensions given in U.S. inches 5.4 mm



KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	491282 94298	Plate Assembly, Governor Control Nut, Square	47	271412	**** Gasket, Carburetor and Intake Elbow
2 3	223882	Washer	48	280319	Spacer, Carburetor
4	262337	Spring, Compression	49	397882	Plug and Seal, Solenoid
5	94297	Screw, Pan Head	50	280474	O-rīng
6	261563	Spring, Governor Idle	51	39381 <b>5</b>	Impulse Line and Clamp Assembly
7	491297	Lever Assembly, Governor	<i>52</i>		Clamp, Fuel Line
8	93853	Bolt, Governor Lever	53	262375	Link
9	222289	Washer	54	213290	Manifold, Intake
10	92278	Nut, Hex 10 - 24	55	93970	Screw, Carburetor Mounting Sem
11	262683	Link, Governor	56	93208	Screw, Intake Manifold Mounting
12	93949	Screw, Sem			Sem
13	262351	Spring, Governor	<i>57</i>	270884	* Gasket, Intake Manifold Mounting
14	393397	Repair Kit, Pump	58	262684	Link, Throttle
15	93897	Screw, Sem		93971	Screw, Shoulder
16	491539	Carburetor Overhaul Kit	60	280997	Crank, Bell
17	491429	Carburetor Assembly	61	262539	Spring, Governor Control
18	491541	Body Assembly, Upper Carburetor		212706 223579	Knob, Air Cleaner Cover, Air Cleaner
19	271607	** Gasket, Carburetor Body	63 64	94289	Nut, Wing
20	223534	Valve, Choke	65	223714	Cartridge Plate, Air Cleaner
21	392673	Shaft and Lever, Choke	66	394019	Cartridge, Air Cleaner
22	93499	Screw, Throttle and Choke Valve	<i>67</i>	271271	Element, Air Cleaner
00	074444	Mtg. Sem **** Gasket, Air Cleaner	68	224039	Shield, Spitback
23	271411	** Valve, Fuel Inlet	69	94166	Screw, Hex Head
24 25	394683 491543	Body Assembly, Lower Carburetor	70	398826	Body, Air Cleaner
25 26	223472	Plug, Welch	71	490207	Crank, Bell
27	231209	Bushing, Throttle Shaft	72	394501	Gasket Set
28	221939	Valve, Throttle			
29	94152	Screw, Hex Head Sem	* In	cluded in G	asket Set, Part No. 394501
	- · · · · · · · · · · · · · · · · · · ·	10 - 32 x 3/4			· · · · ·
30	298514	Float, Carburetor			
31	230896	** Pin, Float Hinge	** //	ncluded in (	Carburetor Overhaul Kit, Part No. 491539
32	392672	Shaft and Lever, Throttle			
33	271013	** Washer, Throttle Shaft	***	Included in	Carburetor Overhaul Kit, Part No. 491539
34	91920	Screw, Machine, Fil. Head	and	Pumn Ren	air Kit, Part No. 393397
- "		8 - 32 x 5/8	anu	i ump riep	an Int, Fait 140. 000007
35	26157	Spring, Throttle Adjustment			
36	93829	Screw, Diaphragm Cover	***	Included in	Gasket Set, Part No. 394501, and Carbu-
37	271025	*** Gasket, Carburetor Pump	reto	r Overhaul	Kit, Part No. 491539
38	270989	*** Diaphragm, Damping			•
<i>39</i>	280197	Body, Pump			
40	261358 270988	*** Spring (2) *** Diaphragm	Ass	emblies inc	lude all parts shown in frames
41	270988 223688	Cover, Diaphragm			
42 43	223000 261395	*** Spring, Pump	A ( ~ .	TT. AU	
44	201333 221377	*** Cap, Spring	NO	i ⊑: All com	ponent dimensions given in U.S. inches
45	231338	Jet, Needle Valve		1 inch	= 25.4 mm
46	491538	** Valve Assembly, Carburetor Idle			
70	.0.000	" mile at a summarrism' & a management and a sum of			



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	394891 221798	Armature Group (MAGNETRON® Ignition) Terminal, Ignition Cable	21 22 23 24	222511 394808 94003 395538	Washer, Spring Motor and Drive Assembly Thru Bolt Assembly Brush Assembly
3 4 5 6 7	93381 222848 222849 222846 223734	Screw, Armature Mounting Sem Cover, Air Guide Cover, Air Guide Shield, Cylinder Shield, Cylinder	25 26 27 28	390837 394860 395537 393825	Armature Assembly Drive End Cap Assembly End Cap Assembly Commutator Housing Assembly
8 9 10	93163 392595 393537	Screw, Sem Stator, Alternator Connector Assembly (Tri-circuit)	29 30 31 32	490421 398003 280104 490467	Starter Drive Group Clutch Assembly Gear Pinion Spring Kit
11 12 13 14	93621 93535 223726 280815	Screw, Sem Screw, Hex Head Retainer, Fan Fan, Flywheel Flywhool and Bing Goor Assembly	33 34 35	94288 90366 91162	Roll Pin Lockwasher Screw, Hex Head 5/16 - 18 x 1-1/2
15 16	491180 391362	Flywheel and Ring Gear Assembly, Magneto Gear, Flywheel Ring (Includes Mounting Parts)			all parts shown in frames ent dimensions given in U.S. inches
17 18 19 20	19203 94326 222673 230674	Puller, Flywheel (Optional Accessory) Screw, Sem Screen, Flush Rotating Nut, Hex	1401	1 inch = 25	.4 mm

# **SERVICE NOTES**

# SERVICE NOTES

### Attachments That Add to the Usefulness of Your Craftsman Tractor

Sears offers a wide variety of attachments that fit your tractor. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication: however, it may change in future years — more attachments may be added, changes (including changes in the stock number) may be made in these attachments, or some may no longer be available.

Most of these attachments do not require additional hitches or conversion kits (those that do are indicated) and are designed for easy attaching and detaching. You may order these attachments at most Sears retail stores, catalog sales offices, and through the catalog.

PERMANEX BAGGER lets you collect grass clippings and leaves for a healthier, neater-looking lawn. Two Permanex containers hold 30-gallon plastic bags. Stock number 71-24940

LAWN SWEEPERS let you collect grass clippings and leaves.

71-24030	30-in.	9.0 cu. ft.
71-24032	32-in.	10.0 cu. ft.
71-24033 High-Performance	32 in.	11.5 cu, ft.
71-24038	38-in.	12.5 cu. ft.

LAWN VACS for powerful collections of heavy grass clippings and leaves. Wand attachment to pick up debris in hard-to-reach places. 12 bu. 71-26471 chute

3HP 71-2452 CARTS make hauling easy. 4 cu. ft. 400 lb. Dump cart 71-24353 10 cu. ft. 1,000 lb. Hauling cart 71-24354 1,000 lb. Dump cart 10 cu. ft. 71-24355 1,250 lb. Dump cart 71-24356 14 cu. ft.

71-24357 ROLLER for smoother lawn surface. 36-inch wide, 18 inch diameter water-tight drum holds up to 390 lbs. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum. Stock number 71-24084.

SPREADER/SEEDERS make seeding, fertilizing, and weed killing easy. Broadcast spreaders are also useful for granular de-icers and sand.

Drop type, 36 inch. 12 in. semi-pneumatic wheels. 100 lb. capcity steel hopper. 71-24194

17 cu. ft.

Broadcasts over a 5 to 8 foot swath. 70 lb. capacity steel hopper. Noncorrosive spreading spinner, nylon gear 71-24394 box, stainless steel shaft.

1500 lb.

**Dump Cart** 

Broadcasts 8 to 10 foot swath. 160 lb. capacity. No-rust polypropylene hopper and impeller. Vinyl hopper cover. 71-24395

Broadcasts 6 to 8 foot swath. 150 lb. capacity. Corrosion resistant construction. Polyethylene hopper. 71-2416

CORING AERATOR takes small plugs out of soil to allow moisture and nutrients to reach grass roots. 36-inch swath. 24 hardened steel coring tips, 150 lb, capacity weight tray. Stock number 71-24351.

AERATOR promotes deep root growth for a healthy lawn. Tapered 2.5" steel spikes mounted on 10-in. diameter discs puncture holes in soil at close intervals to let moisture soak it. Steel weight tray for increased penetration. Stock number 71-2435.

DETHATCHER loosens and flips thatch and matted leaves to lawn surface for easy pick up. Twenty spring tine teeth. Useful to prepare bare areas for reseeding. 40 inch rear mount:, Stock number 71-24303: 38 inch front mount, Stock number 71-24301

SPRAYERS use 12-volt DC electric motor that connects to the tractor battery or other 12-volt source. Includes booms for automatic spraying when pulling, and hand held wand for spot spraying. Wand has adjustable spray pattern. For applying herbicides, insecticides, fungicides, and liquid fertilizers.

71-2458 50 psi maximum pressure with 12 foot wand length. Sprays up to 25 feet with wand.

25 psi maximum pressure with 10 foot wand length. Sprays up to 18 feet with wand.

SNOW BLADE for snow removal only. 14 inch high, 42 inch wide blade clears 38 inch path when angled left or right. Raises, lowers with side lever. Adjustable skids: replaceable, reversible scraper bar. (Use with tire chains, wheel weights, or rear drawbar weight). Stock number 71-24407.

SNOWTHROWER has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arangement. Discharge chute adjusts to 210 degree arc from tractor seat. 6-inch diameter spout discharges snow 10 to 50 ft. Lift controlled at tractor seat. (Use with tire chains, wheel weights, or rear drawbar weight). Stock No. 71-24072.

TIRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction. Stock No. 71-26943.

WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials. In pairs. Stock No. 71-24434 (30 lb. each)

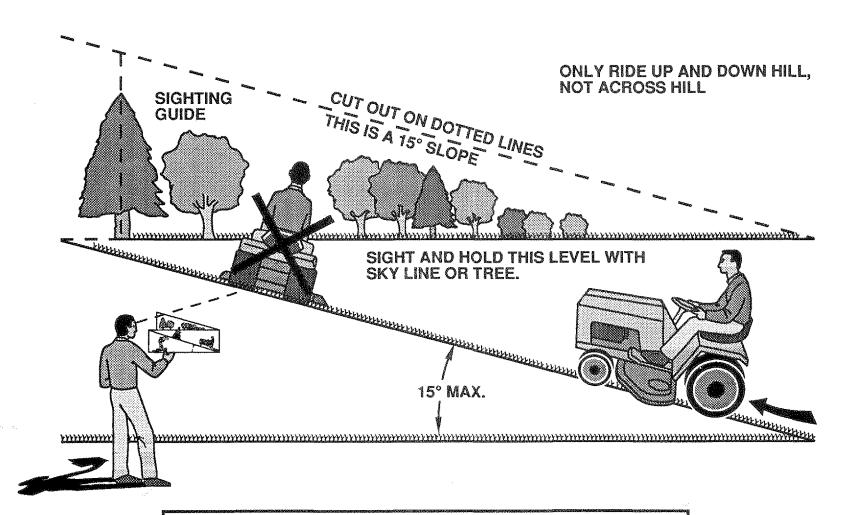
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visability. Hinged metal frame doors with catch. Keeps operator warm and dry. Remove vinyl and windshield for use as sun protector in summer, Stock No. 71-24172.

Optional accessories for tractor cab: tinted/tempered solid safety glass windshied with hand operated wiper (Stock No. 71-26168); 12volt amber caution light for mounting on cab top (Stock No. 71-26169).

TRACTOR COVER protects tractor from weather. Made of Evolution 3 fabric (water-repellent, extremely breathable, light weight, soft, non-abrasive, pliable in all temperatures, durable, stain-tear-puncture resistant, will not shrink or stretch). Stock No. 71-24601.

TILLER cultivates and prepares soil in one operation. Uses PTO from tractor, 12 counter-rotating blades break ground with upper-cut action, then deflects and retills it for a soft, aerated soil. Chain-Drive transmission. Tills 21-inch path, 6-inches deep. (Use chains and wheel weights). Stock No. 71-25246

### SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





Operate your Tractor up and down the face of slopes (not greater than 15°) never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

# SEARS OWNER'S MANUAL

MODEL NO. 917.254740

# HOW TO ORDER REPAIR PARTS

# CRAFTSMAN® 18.0 HP TRACTOR ELECTRIC START 38'' MOWER DECK AUTOMATIC TRANSAXLE

Each Tractor has its own model number. Each Engine has its own model number.

The model number for your Tractor will be found on the Model Plate located under the seat.

The model number for your Engine will be found on the Blower Housing.

All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Centers and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT 18 H.P. TRACTOR
- MODEL NUMBER 917.254740
- ENGINE MODEL NUMBER 422707, TYPE NUMBER 1513-01
- PART NUMBER
- PART DESCRIPTION

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians... professional technicians specifically trained to insure that we meet our pledge to you, we service what we self.

Sears, Roebuck and Co., Chicago, IL 60684 U.S.A.