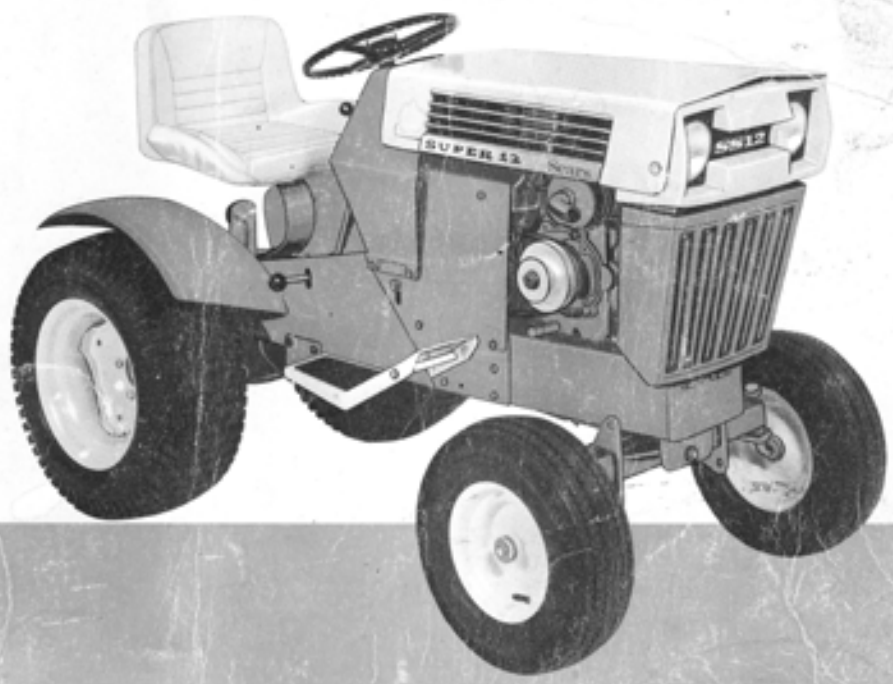


# assembly and operating instructions



## Super 12 Tractor

**Electric Start Model - 917.25120**

SER.# - 7239

YEAR - 1969 or 70

SEARS, ROEBUCK AND CO.....U.S.A.  
SIMPSON-SEARS LIMITED.....CANADA

another free manual from [www.searstractormanuals.com](http://www.searstractormanuals.com)

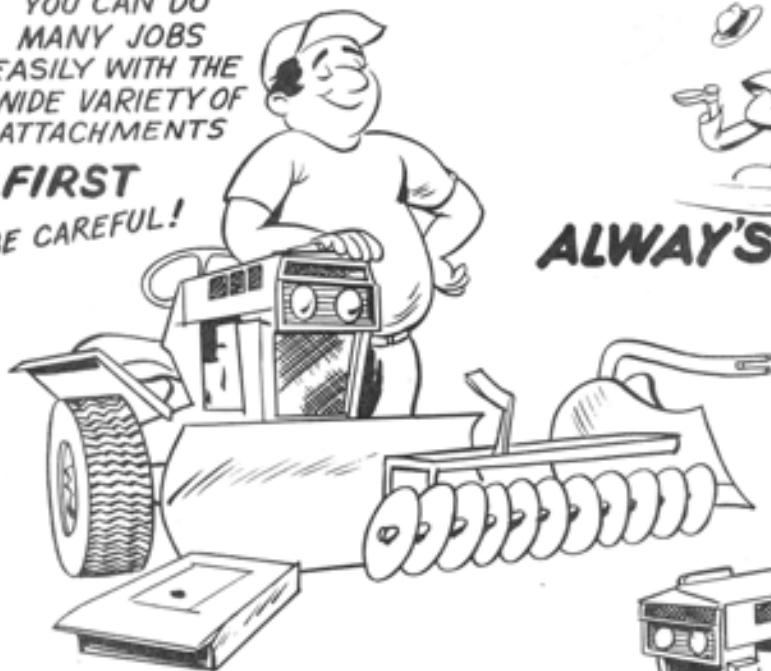
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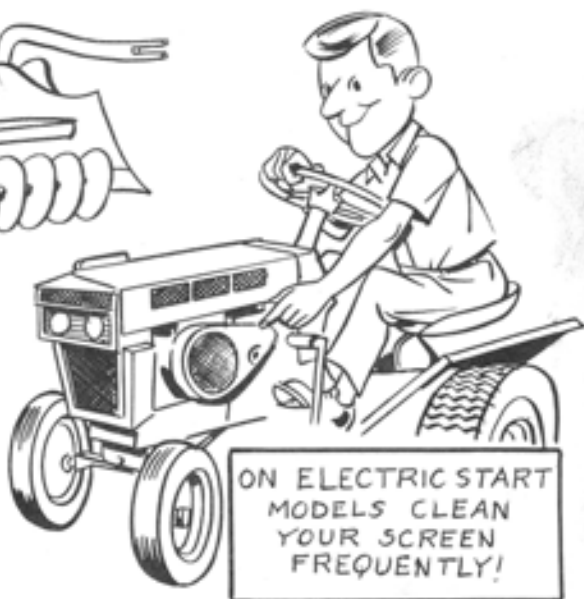
# RULES OF SAFETY

YOU CAN DO  
MANY JOBS  
EASILY WITH THE  
WIDE VARIETY OF  
ATTACHMENTS

**FIRST**  
BE CAREFUL!



**ALWAYS** START IN NEUTRAL!



ON ELECTRIC START  
MODELS CLEAN  
YOUR SCREEN  
FREQUENTLY!

**DO NOT**-START, RUN  
OR REFUEL IN A  
CLOSED BUILDING



**ONLY ONE**  
PERSON  
ON TRACTOR



## INTRODUCTION

Your tractor is ruggedly built for plenty of stamina and long life. You will be delighted with its ease in maneuvering. The design of your tractor will give you the superior performance you have a right to demand of any tractor of this size. Properly adjusted, maintained and operated, it will respond to every reasonable demand you make upon it, and will give you reliable service for years.

## GENERAL INFORMATION

Keep this book handy at all times, familiarize yourself with the operating instructions before beginning to operate your tractor.

Each tractor is given a thorough inspection before shipment; however, it is important that it be again thoroughly checked at the time of receipt, to ascertain if any damage has occurred in transit.

Your tractor is shipped complete.

Stock No. 32-25120 - 12 HP Tractor with Electric Starter

## PARTS IDENTIFICATION

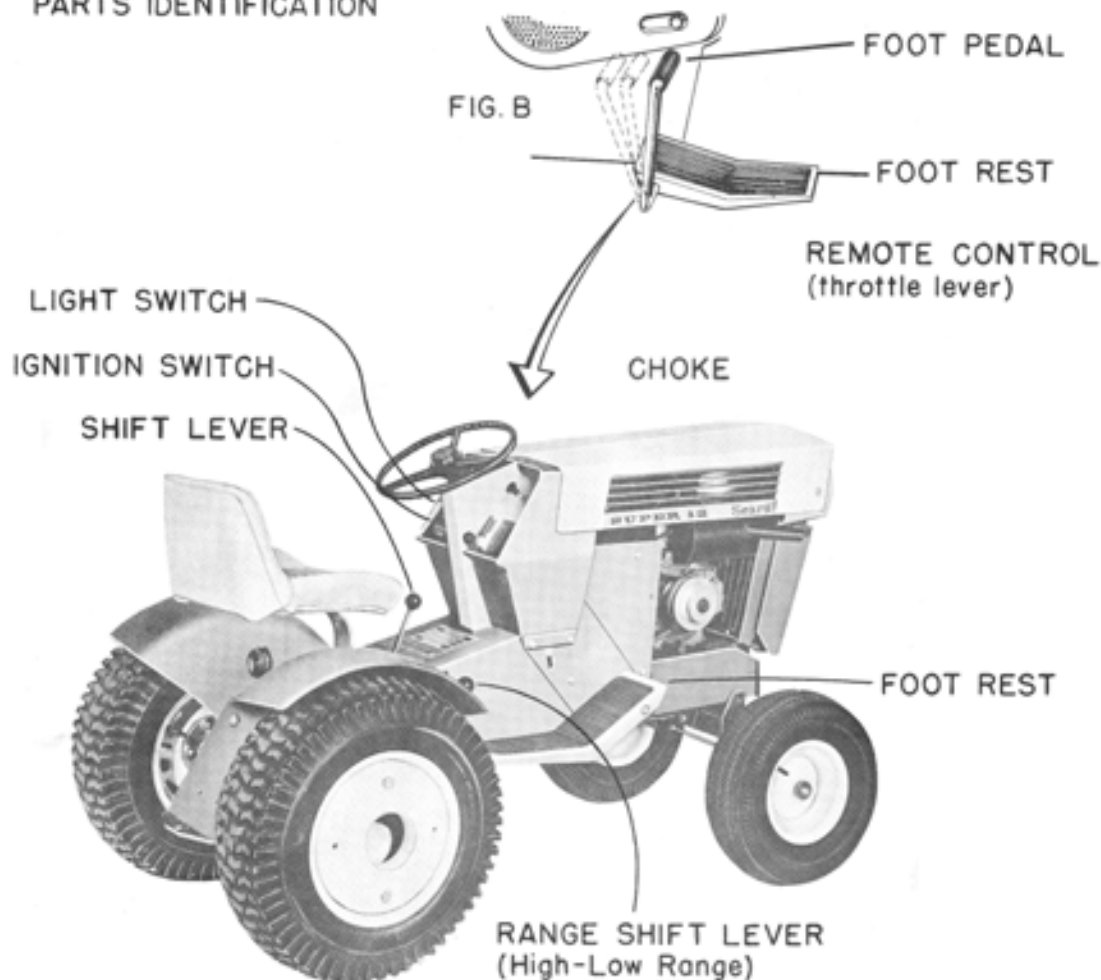


FIG. A

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

## SETTING UP INSTRUCTIONS

A number at the beginning of a paragraph in the following instructions refers to an arrow in the adjoining figure except when otherwise stated. When R.H. (Right Hand) and L.H. (Left Hand) are used, it should be understood to mean from a position behind and facing the tractor (or direction of travel). Reference to "front" indicates the engine and hood end of tractor, and the "rear" the transmission.

1. Remove carton from around tractor. Remove battery from crate bottom and take care of battery as stated in step one below. This will require about 2½ to 3 hours of time.
  2. Cut banding holding tractor to crate bottom.
  3. Check tire pressure, front tires 12 pounds, rear 8 pounds.
  4. This suburban tractor has been completely assembled at the factory, except for the electric starter model. The battery is shipped dry. Below are instructions for filling and installing battery. Lubricate the tractor and add fuel.
- NOTE: Use a good grade of regular, clean, fresh gasoline. Do not mix oil with gasoline. See Lubrication Chart.

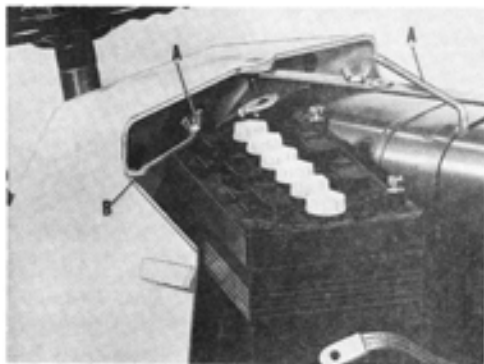


FIG. C

1. Fill battery with electrolyte and charge battery as outlined in instructions in battery container.

CAUTION: After filling cells, let battery stand for thirty minutes. Then charge battery at a rate not exceeding four (4) amperes for about 2½ hours.

2. Lift cowl and assemble clamp (B) to one of two battery bolts (A). Flat washer and wing nut above clamp. Hook the bolt clamp assembly into rear of battery support and turn clamp to side as shown. Slide battery into position with terminals to center of tractor, as shown in Fig. C.

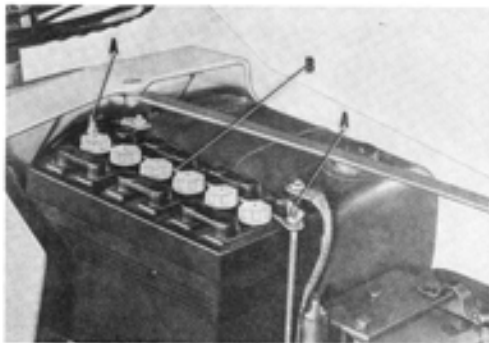


FIG. D

3. Assemble other battery bolt (A) and clamp (B) as shown, with washer and wing nut and tighten wing nut securely.
4. Connect starter switch cable (covered cable) to (+) terminal. Tighten nut securely.
5. Connect ground strap to (-) negative terminal, and tighten nut securely.

## OPERATING CONTROLS

Become thoroughly familiar with the operating controls before starting engine. See Figures A and B, Page 5 for location of controls.

The following controls are used to operate the tractor:

1. Clutch and brake foot pedal is located on the left side foot rest. The foot pedal operates a combination brake and drive clutch. There are three positions of operation on the foot pedal. See Fig. B.
  - a. The clutch is in DRIVE position when the pedal is all the way out (i.e. when the foot is removed from the pedal).
  - b. The clutch is in NEUTRAL when the pedal is depressed half way or more.
  - c. The BRAKE is on when the pedal is pressed all the way forward.

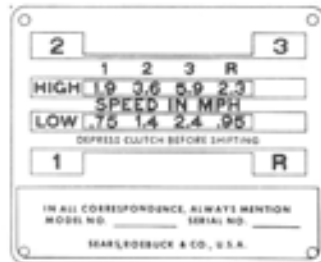


FIG. E

2. Transmission gear shift lever is located at front center of seat. See Figure A. The gear shift lever selects the Forward speeds, the Neutral, and the Reverse positions required. See Figure E.



FIG. F

3. The high-low range is located on R.H. frame side just forward of R.H. rear fender. The high-low range lever has 3 positions, up for high-range, center for neutral, and down for low range. There are two neutral positions in transmission, one on the gear shift lever, and one of the high-low range lever. Both levers must be engaged for tractor to operate. Place gear shift lever in neutral position for starting tractor. Place high-low range lever also in neutral for easier pushing of tractor or when tractor is towed.

## BEFORE STARTING ENGINE

1. To lift cowling, grasp each side of cowling, at rear and pull outward and upward. Lift cowling to



FIG. G

its extreme open position.

2. Engine crankcase is shipped with oil ready for use. However, check oil level before starting. If necessary, add oil to bring oil level up to the full mark on the dip stick. Dipstick must be screwed in tight for checking oil level, and tractor should be level. Oil capacity is 2½ pints. NOTE: Do not fill above full mark on dipstick. Engine must be stopped when checking oil level. Use Allstate Regular M.S. S.A.E. #30 or equivalent. If not available, use Allstate Multi-grade all weather oil (S.A.E.) 10W-20W-30W or equivalent. NOTE: Use S.A.E. 10W oil below 32 degrees.
3. Fill fuel tank with regular grade of clean fresh gasoline, and open fuel shut off valve located near carburetor.

CAUTION: Before starting the engine, check to see that the controls are as follows:

4. Transmission gear shift lever must be in neutral. Neutral is when gear shift lever is free to move forward and backwards. It will operate similar to an automobile. See Figure H.

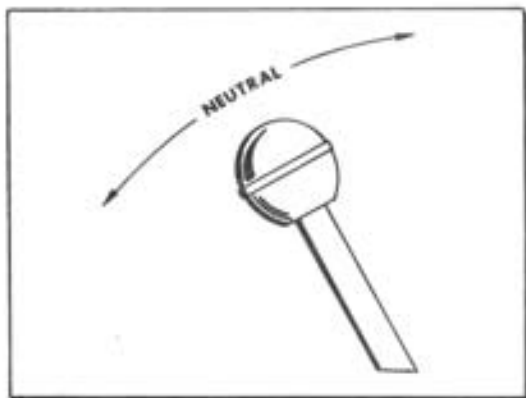


FIG. H

## TO START ENGINE

1. Pull out choke control to full choke position to start cold engine.

2. Advance throttle lever to about ½ throttle.
3. Pull choke control out to full choke position.
4. The ignition and starter key is located on L.H. side of dashboard. Turn key clockwise to engage starter. When engine starts release key. After engine starts push in choke control as engine warms up. Let engine warm up before applying load.

CAUTION: Do not run starter continuously for more than 30 seconds at a time. If after several attempts, engine does not start, move throttle control lever to FAST position. Wait for two minutes and try again.

5. After engine starts, move engine control lever to FAST position.
6. To stop engine turn key in a counter-clockwise direction to off position. Key can be removed so children cannot start tractor.

## COLD WEATHER STARTING

Change oil, use a lighter weight oil S.A.E. 5 W 10 in extremely cold areas. Be sure choke control completely closes choke shutter. Push foot pedal forward (clutch disengaged) while cranking engine. This will eliminate belt and pulley drag for faster and easier cranking of engine.



DON'T  
RUN YOUR TRACTOR IN A  
CONFINED SPACE...

**DO NOT - START, RUN  
OR REFUEL IN A  
CLOSED BUILDING**



**TO OPERATE TRACTOR**

1. Try your tractor in a large, open space. Learn to start, stop and reverse.
2. Start the engine and put the remote control lever at about  $\frac{1}{2}$  throttle. Push down on foot pedal, move gear shift lever and range lever to speed desired. Release foot pedal slowly, and tractor will start to move. After foot pedal is fully released (clutch engaged) move remote control lever to fast position. If ground travel is too fast, depress foot pedal and shift to a slower ground travel speed. Always select a ground travel speed so that engine is not overloaded. Do not shift gears while tractor is moving.

**DO NOT DECLUTCH  
GOING UP  
OR DOWN  
HILLS—**



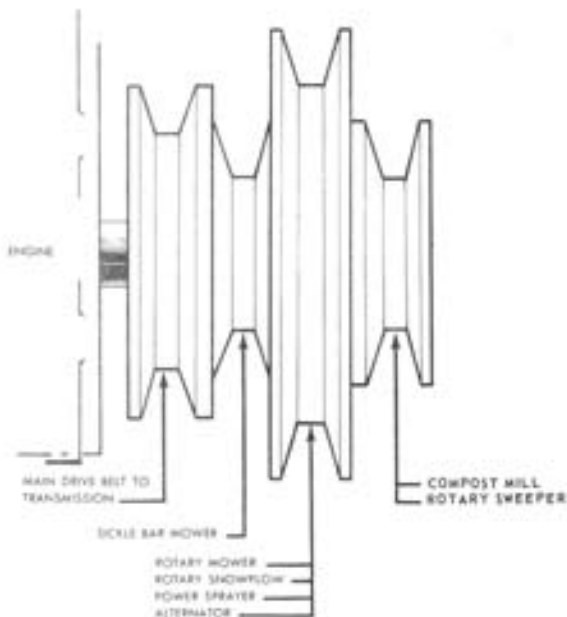
Important: Do not attempt to make any turns at high speed or when operating on a hillside. Reduce speed when on hillsides so that if wheel strikes a hole, rut, or ditch tractor will not tip. Never release clutch quickly with remote control at fast position (full throttle).  
If tractor becomes mired or in a hole try to back out rather than drive forward.

To stop tractor, push foot pedal all the way down, move gear shift lever to neutral, set brake lock and release foot pedal. Always check to make sure brake lock will hold tractor secure. Shut off and remove key from switch. This will prevent unauthorized children from starting tractor. Never leave engine running with tractor unattended.



**ONLY ONE  
PERSON  
ON TRACTOR**

**ENGINE PULLEY GROOVE TO USE FOR YOUR APPLICATION**



## TRANSAXLE LUBRICATION

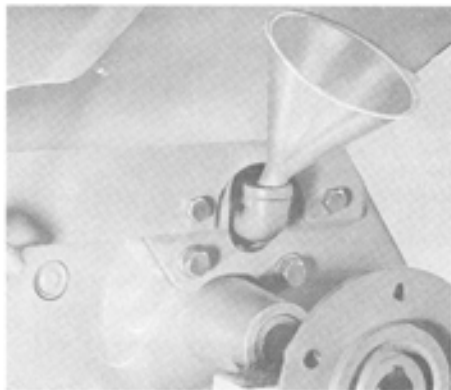
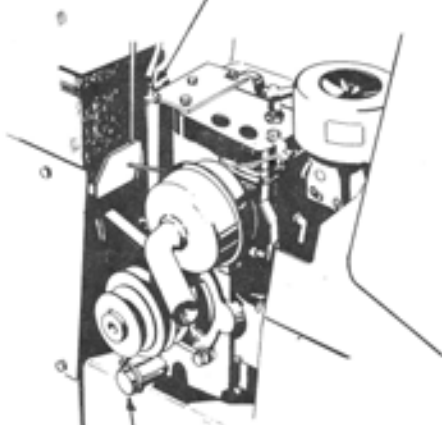


FIG. J

1. Check oil in transaxle every 50 hours of operation.
2. Change oil in transaxle after 500 hours of operation. To drain oil unscrew drain plug on lower L.H. side of transaxle, and catch oil in suitable container, see Figure J.
3. To fill transaxle use 5 qts. of Allstate SAE 30 motoroil for service MM or MS. Fill through filler plug as shown in figure J. NOTE: Rear wheel is shown removed for illustration.
4. To check oil level, remove filler plug from transaxle. Oil level should be even with this plug.

## ENGINE LUBRICATION

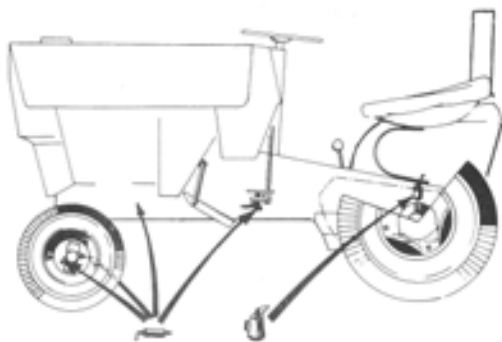
### DIPSTICK



### PIPE CAP

FIG. K

1. Change oil in crankcase after first 2 hours of operation. Engine should be warm when oil is changed.
2. To drain oil, unscrew pipe cap at lower front end of engine, and catch used oil in suitable container. See Figure K.
3. Refill engine crankcase with oil as instructed under "Before Starting the Engine". Check oil level after each five hours of operation and add oil, if necessary, to bring to correct level.
4. After first oil change, oil should be changed after each 25 hours of operation.



## LUBRICATION CHART

There are only 6 grease fittings on this tractor;

1. Grease front spindles and wheels every five hours. Two shots of grease each fitting.
2. Grease steering sector and bell crank every five hours, two shots of grease.
3. Check oil in engine crankcase at least every 5 hours of operation. Change oil every 25 hours of normal operation. In extremely dirty or dusty conditions change oil every 15 or 20 hours of operation.
4. Check oil in transaxle every 50 hours of operation. Change oil in transaxle every 500 hours of operation.
5. Apply several drops of oil to all pivot points every 5 hours of operation.

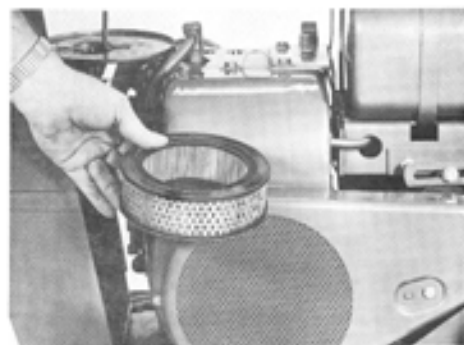


FIG. L

## AIR CLEANER

Clean air cleaner periodically. To clean carburetor air cleaner remove wing nut that holds air filter cover to bracket and remove cover.

1. Pull element from bracket.
2. Tap element lightly to dislodge any dirt, etc. which has accumulated on element. Periodically clean with compressed air blowing air from inside to outside of element. If compressed air is not available, take air cleaner element to a service station for cleaning with compressed air, or clean outside of air cleaner with home vacuum sweeper. This is a dry type air cleaner, so do not oil or wash in gasoline or other solvent. Air cleaner must be kept clean, so that carburetor will get sufficient air.
3. Clean cover and bracket and replace element. Wing nut must be kept tight. If air cleaner becomes too dirty, engine will not receive sufficient air to run properly. At the start of each season it is recommended that a new element be installed.





FIG. M

**STARTER GENERATOR BELT**

1. Remove 3 screws (A) holding belt guard to engine.
2. Loosen bolt (B) in generator adjusting strap and generator, move starter generator back to tighten belt and tighten bolt (B) securely. Belt should be tight enough to prevent belt slippage when starting tractor.

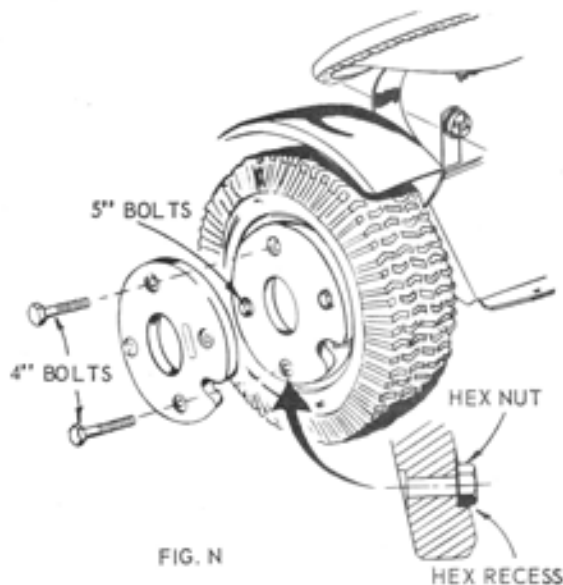


FIG. N

**WHEEL WEIGHTS:**

Rear wheel weights are available where extra draw bar pull is desired. When attaching weight to the wheel the convex side should be out. Insert the bolts from the outside through the holes, which have a deep recess on the concave (inner side), and holes in wheel disc. Another wheel weight can be added by placing nut in hex recess of first weight and bolt second weight to first. **WHEEL WEIGHTS ARE VERY ESSENTIAL FOR ADDED TRACTION. THIS IS ESPECIALLY TRUE FOR ALL TILLAGE TOOLS SUCH AS PLOWS ETC. AND WITH SNOWPLOW-BULL-DOZER.**

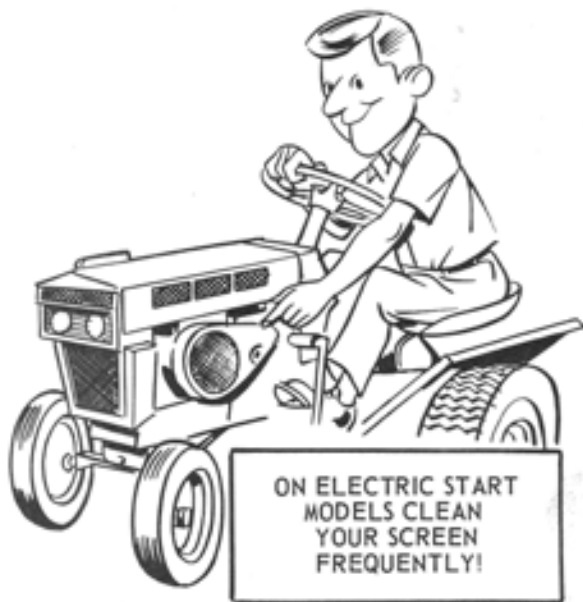


FIG. O

**STARTER AIR CLEANER**

Keep starter air cleaner screen clean on electric models. This is necessary so that engines will have proper cooling. Compressed air can also be used to clean screen.

**TOWING TRACTOR**

Place gear shift lever and range lever in neutral position. Tractor can then be towed at a reasonable, safe speed.



FIG. P

**SEAT POSITION**

The seat may be moved towards the front or rear to give the most comfortable riding position. To move the seat, loosen the nut beneath the seat spring and slide the seat to the position required. Tighten the nut, making sure that the seat has not twisted out of alignment with the seat spring.

## TROUBLE SHOOTING

### HARD TO START

No gasoline in fuel tank or carburetor Fuel strainer, or fuel line clogged.	Fill fuel tank; open fuel shut off valve. Check fuel line, fuel strainer and carburetor. Remove fuel strainer and clean. Clean fuel line and carburetor.
Water in gasoline or old fuel. Spark plug wire off at spark plug.	Drain fuel from tank and carburetor. Refill with fresh clean gasoline. Remove and dry spark plug and reset plug gap. Replace wire on spark plug.
Spark plug dirty	Remove plug, clean and reset plug gap, or install new spark plug.
Improperly choked, not fully choked or flooded engine.	Check choke if not fully choking correct. Flooded engine, push in choke, open throttle and crank engine to clear out gas.
Dirty carburetor air filter Carburetor out of adjustment Ignition switch off	Remove air filter and tap to remove dust and dirt, clean with compressed air. Install new air cleaner once each year. Check carburetor adjustment, see engine manual. Turn on ignition key.
Poor ignition	Check points, condensor plug, coil or loose wires.

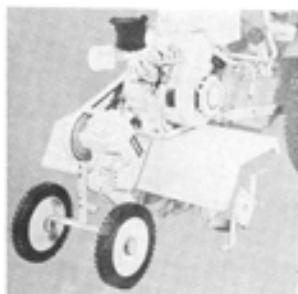
### ENGINE OVERHEATS

Dirty starter, air screen Check oil level in crankcase. Lean Mixture	Clean screen over starter. Be sure fins on cylinder head and around cylinder are clean. Fill to level indicated on dip stick. Do not over fill engine. Correct carburetor adjustment. See engine manual.
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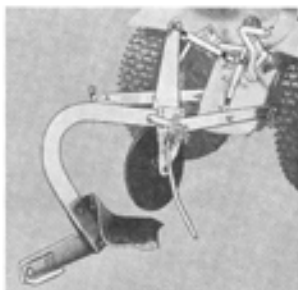
### ENGINE LACKS POWER

Engine overloaded	Shift to a lower gear or reduce load.
Dirty carburetor, air cleaner, Improper carburetor adjustment	Clean or replace air cleaner. Adjust. See engine manual.
Faulty ignition Poor compression	Check points, spark plug condensor, coil and loose wires. See Dealer to check compression.
Belt slips	Tighten drive belt.

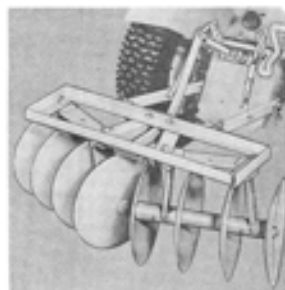
SOME OF THE MANY ATTACHMENTS AVAILABLE FOR YOUR SUBURBAN TRACTOR



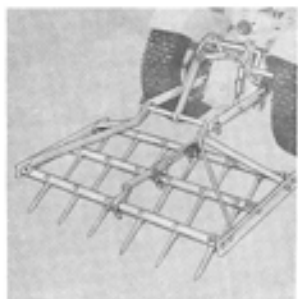
Rotary Tiller



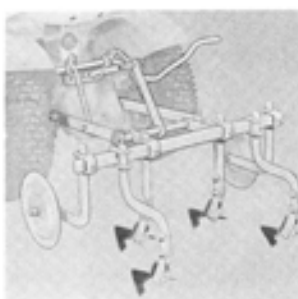
Plow



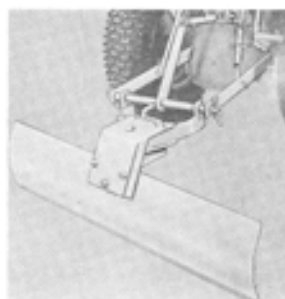
Disc Harrow



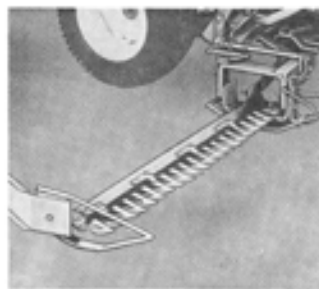
Drag Harrow



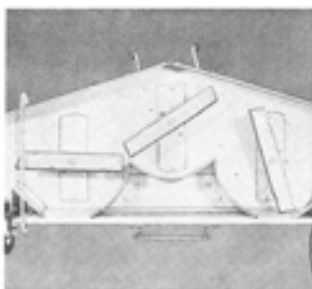
Cultivator with Sweeps



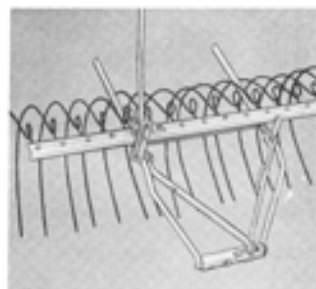
Grader Blade



Sickle Bar Mower Sweep



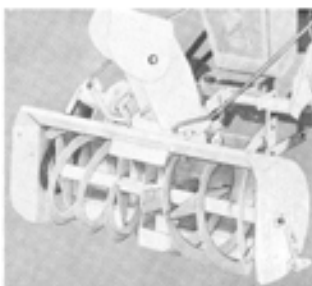
Rotary Mower - 42"



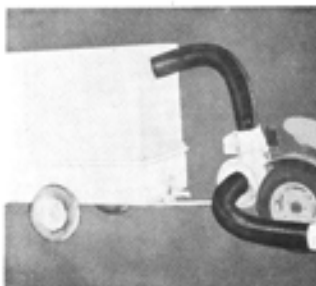
Dump Rake



Bulldozer



Rotary Snowplow



Vacuum Cleaner Attachment

## OPTIONAL TRACTOR ACCESSORIES

STOCK NUMBER	DESCRIPTION
32-25178	3 Point Hitch
32-25176	Set of Four Hub Caps
32-25174	Umbrella
32-25175	Flasher Lights
32-25162	Rear Wheel Weight





*NO. 1... WHERE THE TRRR-ACTION IS!*

