owners manual

CUSTOM 10E TRACTOR

MODEL NO. 917.25070

CAUTION: Read Rules for Safe Operation and Instructions Carefully

- Assembly
- Operating
- Maintenance
- Repair Parts

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

Printed in U.S.A.
GUARANTEE

Your Tractor is guaranteed for one full year. If any defect in material or workmanship should appear during this time, simply contact our nearest Sears store or service center throughout the United States or Canada. We will make all necessary repairs, including parts and labor, at no charge to you. Tractors equipped with batteries: If battery proves defective and will not hold a charge, in exchange for the battery, we will: During the first 90 days—replace battery at no charge. After 90-days-replace battery, charging customer 1.12th of the price of the new battery for each full month from date of sale.

If the tractor is used for commercial or rental purposes, this guarantee applies for thirty days. Guarantee continued on the inside of the back page.

SEARS, ROEBUCK AND CO. - SIMPSON-SEARS, LTD.

IMPORTANT
rules for safe operation

1. Do not allow children to operate TRACTOR. Do not allow adults to operate it without proper instruction.

2. Operator should become fully familiar with all the different sections of this Owners Manual and the Engine Manual before attempting to operate the TRACTOR. Know the controls and how to stop quickly. Try your TRACTOR in a large flat open space. Learn to start, stop and reverse. Do not start or operate TRACTOR when not in driver’s seat.

3. Never allow your hands, any other part of your body, or your clothing near any moving parts or mower discharge chute, while engine is running. Make sure you are wearing work shoes while operating the TRACTOR.

4. Do not carry passengers.

5. When using any attachments, the TRACTOR should never be operated in the vicinity of children, pets or other persons. When using the mower, never direct discharge of material toward bystanders, buildings, fences, etc.

6. Clear work area of objects which might be picked up and thrown.

7. Disengage power to attachment clutches, shift into neutral and disengage clutch before attempting to start engine.

8. Disengage power to attachments, stop engine, remove ignition key and set parking brake before leaving operator position.

9. Disengage power to attachments, stop engine, remove ignition key and set parking brake before making any inspection, repairs or adjustments.

10. Disengage power to attachment when transporting or not in use.

11. Take all possible precautions when leaving vehicle unattended; such as lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key. Keep key in safe place out of reach of children.

12. Do not stop or start suddenly when going uphill or downhill. Operate TRACTOR up and down the face of slopes; never across the face. Never operate TRACTOR on slopes with more than a 15 degree slope.

13. Keep foot brake and parking brake lock in good adjustment.

14. Do not operate the TRACTOR in high gear going downhill, and do not turn sharp corners while going downhill.

15. Do not shift gears while going up steep hills. Choose a low enough gear to climb hill without stopping and shifting gears.

16. Do not shift gears while TRACTOR is moving.

17. Sideways upsets can happen easily especially in ditches. Be alert for holes in terrain and other hidden hazards. Don't drive too close to creeks, ditches and public highways.

18. 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.
   D. Use counterweight or wheel weight(s) when suggested in the attachment Owners Manual.

19. TRACTOR is not to be operated on any public road, street, highway, sidewalk or alley. Watch out for traffic when crossing or near roadways.

20. Handle gasoline with care— it is highly flammable.
   A. Use approved gasoline container.
   B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline before starting engine.
   C. Never start or run the TRACTOR indoors as the exhaust from the engine contains
rules for safe operation 
(cont.)
carbon monoxide which is a tasteless, odorless, deadly poison.


22. Keep all nuts, bolts and screws tight to be sure equipment is in a safe working condition.

23. Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. For long periods of storage, the gasoline tank should be drained and the gasoline discarded in a safe place. Allow engine to cool before storing in any enclosure.

24. To reduce fire hazard keep engine free of grass, leaves or excessive grease.

26. Do not change engine governor settings or overspeed engine. Excessive speed is dangerous and shortens engine life.

27. When using TRACTOR with mower:
A. Mow only in daylight or in good artificial light.
B. Never make a cutting height adjustment while engine is running if operator must dismount to do so.
C. If mower chute should become clogged, shut engine off, disengage mower and disconnect spark plug before unclogging chute.
D. Check blade mounting bolts for proper tightness at frequent intervals.
E. Board TRACTOR from left hand side only, away from discharge chute.

25. TRACTOR and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.

reference drawing for assembly and instructions
reference drawing for assembly and instructions (cont.)

- Battery Cable (To Plus Terminal)
- Fuel Tank
- Oil Filler Cap and Dip Stick
- Battery Ground Strap (To Negative Terminal)
- Muffler
- Gear Shift Lever
- Parking Brake
- Throttle Control
- Shift Pattern Plate
- Range Shift Lever (High-Low Range)
- Ignition and Starter Switch
- Choke
- Air Cleaner
- Custom 10
- Starter Air Screen
- Drive, Clutch and Brake Pedal
- Fuel Tank Shut-Off Valve

Fig. 2
**introduction**

This Product 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, Roebuck or Simpson-Sears, Ltd. Store. They have well qualified, competent trained technicians and the proper tools to service or repair this unit.

It is important that the operator ALWAYS OBSERVES THE "RULES FOR SAFE OPERATION" as well as other instructions contained in this Tractor and the Engine manual.

We have provided this Manual to help you operate your Tractor with utmost efficiency. We urge you to study this Manual so you will understand your new Tractor thoroughly before operating it. We suggest that you take care of your Manual so that it will be available for future reference should you need it.

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**assembly**

A letter in parentheses in the following instructions refers to an arrow in the adjoining Figure (Illustration), except when otherwise stated. When R.H. (Right Hand) or L.H. (Left Hand) is used, it should be understood to mean as if one were seated on the tractor seat facing forward.

1. Remove carton from around Tractor and remove battery. Cut banding holding Tractor to bottom of crate.
2. Your Tractor has been completely assembled at the factory except, to fill, charge and install the battery. The battery was shipped dry. Instructions are given on page 5 for filling, charging and installation.
3. Your Tractor was lubricated at the factory however, we suggest you follow the Lube Chart on page 12 before operation.
4. Tires were over-inflated for shipping purposes. Reduce air pressure to 15 lbs. in front tires and 8 lbs. in rear tires. This will improve traction and give you the comfortable ride you will want.

5. A plastic bag of parts was shipped with your Tractor and should be opened at this time. It will contain the following items:
   
1. Battery Clamp
2. Wing Nuts
3. Battery Bolts
4. Flat Washers
   (These items hold battery in position on Tractor. They are used in step 3, page 5).
5. Hex nuts
   (They secure ground strap and positive cable to battery. They are used in steps 4 and 5, page 5).
6. Ignition Keys
   (We suggest one key be removed from the wire ring and kept in a safe place. Position the second key in the Tractor ignition).
assembly (cont.)
fill and charge battery

CAUTION: DO NOT ASSEMBLE BATTERY TO TRACTOR UNTIL BATTERY HAS BEEN FILLED AND CHARGED.

1. Fill battery with electrolyte and charge battery as outlined in instructions in battery container.
   NOTE: After filling cells, let battery stand for thirty minutes. Then charge battery at a rate not exceeding three (3) amperes for about 2½ hours.

FILL BATTERY AS SHOWN
DO NOT OVERFILL--
CORRECT LEVEL IS BOTTOM OF TUBES IN CELLS...

CUT-AWAY VIEW OF BATTERY

BATTERY TUBE
ELECTROLYTE
BATTERY CELL

READ CAREFULLY ALL SETTING-UP, OPERATING AND MAINTENANCE INSTRUCTIONS IN THIS MANUAL. YOU WILL FIND MANY HELPFUL POINTERS WHICH WILL NOT ONLY SAVE YOU TIME BUT WILL HELP OPERATE THE TRACTOR MOST EFFICIENTLY.

battery installation

2. To lift hood assembly (A), grasp each side of hood at rear and pull outward and upward. Lift hood to its extreme forward position.

FIG. 3

3. Install battery as shown so that (+) positive and (-) negative terminals are to front of tractor. Hook a battery bolt (B), into battery support (C). Assemble battery clamp (D), flat washer (E), and wing nut (F), to battery bolt (B). Do not tighten wing nut tight. Assemble the other battery bolt to opposite side of Tractor. Position clamp (D) over second battery bolt. Secure with second flat washer and wing nut. Tighten both wing nuts securely. NOTE: Do not over tighten wing nuts, only tight enough to hold battery securely.

FIG. 4

4. Connect battery cable (covered cable with terminal cover G), to positive (+) terminal. Tighten nut securely.
5. Connect ground strap (H), to negative (-) terminal. Tighten nut securely.
CAUTION: When fastening cable and ground strap to battery, keep cable and strap even with or lower than top of battery terminals. If they are too high, they can short against hood.
6. Be sure terminal cover (G), is in place on positive terminal.
introduction

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assembly

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      (We suggest one key be removed from the wire ring and kept in a safe place. Position the second key in the Tractor ignition).
assembly (cont.)

seat position

FIG. 5

1. The seat (A), may be moved towards the front or rear to give the most comfortable and safe operating position. To move the seat, loosen the nut (B), beneath the seat and seat spring and slide the seat to the position desired. Tighten the nut, making sure that the seat plate has not twisted out of alignment with the seat spring.

instructions before operating

FIG. 6

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.
   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 halfway or more.
   c. The BRAKE is on when the pedal is pressed all the way forward.

STUDY RULES FOR SAFE OPERATION...

FIG. 7

2. The transaxle (transmission) gear shift lever (A), is located at front, center of seat.
   a. The gear shift lever selects the FORWARD speeds, the NEUTRAL and REVERSE speeds.
3. The high-low range shift lever (B), 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 on 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 in neutral for easier pushing of tractor or when tractor is being towed.

**FIG. 8**

4. To engage parking brake (C), push foot pedal all the way down, pull backward on park brake lever and release foot pedal. Push lever forward to release brake.

**FIG. 9**

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**Fuel and Lubricant**

**FIG. 10**

5. To lift hood assembly grasp each side of hood at rear and pull outward and upward. Lift hood to its extreme forward position.

6. 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 dipstick. Dipstick must be screwed in tight for checking oil level, and tractor should be level. NOTE: Do not fill above full mark on dipstick. Use Allstate regular (M.S.) Heavy Duty S.A.E. 50 oil or equivalent. If not available, use Allstate Multi-grade oil or weather oil S.A.E. 10W-20W-30W or equivalent. NOTE: Use S.A.E. 10W oil below 32 degrees.

7. Fill fuel tank with a good grade of fresh, CLEAN, regular gasoline. Wipe off all spilled fuel and oil.
operating instructions
how to start and stop

DO NOT FILL GASOLINE TANK WHILE ENGINE IS RUNNING. AVOID SPILLING GASOLINE ON A HOT ENGINE--THIS MAY CAUSE AN EXPLOSION AND SERIOUS INJURY. DO NOT MIX OIL WITH GASOLINE. USE CLEAN, FRESH "REGULAR" GRADE GASOLINE. FILL TANK COMPLETELY.

2. Pull out choke control (A), to full choke position to start in cold weather.

3. Advance throttle control lever (B), to about ½ throttle.

4. This Tractor is equipped with a safety start switch. It is therefore necessary to depress foot pedal before engine can be started. Depress foot pedal all the way and turn ignition-start key (C), clockwise to engage starter. When engine starts, release key. After engine starts, push in choke control (A), 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 (B), to FAST position. Wait for two minutes and try again.

5. To stop engine, turn key (C), in a counterclockwise direction to OFF position. Key should be removed so children can not start Tractor.

REMOVE THE IGNITION KEY KEEP OUT OF REACH OF CHILDREN!

NEVER STORE EQUIPMENT WITH GASOLINE IN THE TANK INSIDE A BUILDING WHERE FUMES MAY REACH AN OPEN FLAME OR SPARK. FOR LONG PERIODS OF STORAGE, THE GASOLINE TANK SHOULD BE DRAINED AND THE GASOLINE DISCARDED IN A SAFE PLACE. ALLOW ENGINE TO COOL BEFORE STORING IN ANY ENCLOSURE.

safe operating

1. Try your Tractor in a large, open space. Learn to start, stop and reverse.

2. Start the engine and put the throttle lever at about ½ throttle. Push down on foot pedal, move gear shift lever and range shift lever to speed desired. Release foot pedal slowly, and Tractor will start to move. After foot pedal is fully released (clutch engaged), move throttle 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 that will suit attachment being used and not overload the engine.
operating instructions (cont.)
safe operating (cont.)

3. Do not shift gears while Tractor is moving.
4. To stop Tractor, push foot pedal all the way down, move gear shift lever to neutral, set parking brake lock and release foot pedal. Always check to make sure brake lock will hold Tractor secure. Disengage power to attachment. Shut-off and remove key from switch. This will prevent unauthorized operation. Keep key in a safe place out of reach of children. Never leave engine running with Tractor unattended.

K E E P W O R K I N G A R E A C L E A R- A D U L T S- P E T S- C H I L D R E N.

5. Do not operate the Tractor in high gear going down hill, and do not turn sharp corners while going down hill. If it is necessary to stop Tractor while going down hill, do so quickly to prevent Tractor from picking up speed during the declutching to brake position.

NOTE: The engine produces considerable braking action when throttle back to idling speed without declutching, and this procedure is recommended before applying brake.

D O N O T O P E R A T E T R A C T O R A C R O S S S L O P E S.

Refer to separate card shipped with this Owners Manual titled: "Suggested Guide for Sighting Slopes for Safe Operation".

6. Do not shift gears while going up steep hills. Choose a low enough gear to climb hill without stopping and shifting gears. If it is necessary to stop while going up hill, do so quickly to prevent Tractor rolling backward. Before starting Tractor in motion going uphill, use one of the lowest gears, reduce engine speed and engage clutch gradually to prevent Tractor from "rearing up".

7. Upsets can happen easily in ditches. Stay alert for holes or other yard hazards.

L O O K B E F O R E B A C K I N G..."$

towing tractor

1. Place gear shift lever and range shift lever in neutral position. Tractor can then be towed at a reasonable safe speed not faster than 6 miles per hour.
operating instructions (cont.)
safe operating (cont.)

ON ROUGH GROUND—TAKE IT SLOW!

CLEAR THE AREA OF RUBBISH BEFORE MOWING!

CLEAR WORK AREA OF OBJECTS WHICH MIGHT BE PICKED UP AND THROWN.

weights (optional equipment)

FIG. 13

1. Rear wheel weights are very essential for added traction. This is especially true for attachments such as the plow, disc harrow, leveler blade, snow thrower, bulldozer-snow plow, etc.

maintenance air cleaner

Your engine is equipped with an air cleaner that MUST be periodically removed and cleaned to maintain maximum engine performance. Refer to engine manual for cleaning instructions.

starter air screen

FIG. 14

The starter screen guard (A), and the starter rotating screen (located directly behind the starter screen guard), are designed to keep grass, chaff and large leaves from entering the cooling system and must be cleaned periodically. The cleaning of the screens will vary with the conditions in which the Tractor is used. They should not be allowed to become dirty which would interfere with the cooling of the engine. Remove the screen guard (A), clean it and the starter rotating screen regularly.
maintenance (cont.)

THIS TRACTOR HAS AN AIR COOLED ENGINE. AIR MUST BE ABLE TO CIRCULATE FREELY AROUND THE ENGINE, THROUGH THE STARTER SCREEN AND AIR CLEANER, AND OVER THE FINS OF THE CYLINDER BLOCK. KEEP THESE AREAS FREE OF ACCUMULATED DIRT AND TRASH OR THE ENGINE WILL OVERHEAT AND RESULT IN DAMAGED MOVING PARTS.

engine lubrication

STOP ENGINE AND WAIT SEVERAL MINUTES BEFORE CHECKING OIL LEVEL.

BE SURE TRACTOR IS ON LEVEL GROUND AND ENGINE IS STOPPED BEFORE CHECKING OIL LEVEL.

1. Change oil in engine crankcase after FIRST 2 HOURS of operation. Engine should be warm when oil is changed.
2. To drain oil, remove oil drain plug (A), at lower front end of engine. Catch used oil in suitable container. Replace oil drain plug.

NOTE: THE BEST TIME TO DRAIN OIL IS AT THE END OF A DAY'S OPERATION AT WHICH TIME THE OIL IS HOT AND ALL DIRT AND FOREIGN MATERIAL IS SUSPENDED IN THE OIL.

IMPORTANT: BE EXTREMELY CAREFUL TO PREVENT DIRT OR FOREIGN PARTICLES FROM ENTERING THE ENGINE CRANKCASE OR TRANSMISSION WHEN CHECKING OIL LEVEL.

3. Refill engine crankcase with oil as instructed under "Fuel and Lubricant", page 7. Capacity 3-1/8 pints. Check oil level after each five hours of operation and add oil, if necessary, to bring to correct level on dipstick.
4. After first oil change, oil should be changed after each 25 hours of operation.

transaxle (transmission) lubrication

1. Check oil in transaxle (transmission) every 50 hours of operation. To check oil level, remove filler plug from transaxle. Oil level should be even with this plug.
2. Change oil in transaxle after 500 hours of operation. To drain, remove drain plug and catch oil in suitable container.
3. To fill transaxle, use 5 qts. of Allstate S.A.E. 30 motor oil for service MM or MS or equivalent. Fill through filler plug.
maintenance (cont.)
lubrication chart

KING PIN (GREASE FITTING)  FRONT WHEEL (GREASE FITTING)  FOOT PEDAL SHAFT
ENGINE CRANKCASE

INTERMEDIATE SHAFT (GREASE FITTING)
CLUTCH AND BRAKE ROD
STEERING SHAFT
TRANSAXLE (TRANSMISSION)

LIGHT OIL - EVERY 5 TO 10 HOURS
GREASE EVERY 5 HOURS
CHECK OIL LEVEL IN TRANSAXLE (TRANSMISSION) EVERY 50 HOURS
CHECK OIL LEVEL IN ENGINE CRANKCASE EVERY 5 HOURS

FIG. 18

brake adjustment

IDLER PULLEY

PARKING BRAKE  FLANGED NUT  TURNBUCKLE

FOOT PEDAL  TOP OF FRAME

PARKING LOCK ASSEMBLY  FIG. 19

To adjust brake, loosen nut back of turnbuckle and turn turnbuckle clockwise (away from you), one turn at a time until foot pedal has about 4 inches of travel from clutch engaged to full brake position, or center of idler is about 4-3/4 inches above frame. Tab on idler bracket will deflect belt slightly. Tighten jam nut against turnbuckle to lock turnbuckle in position. Keep brake properly adjusted especially in hilly terrain.

park brake lock adjustment

The flanged nut is adjustable forward or backward on rear brake rod so that parking lock assembly will hold brake full on when parking brake is pulled up (lock position). Tighten jam nut against flanged nut to lock flange nut in position. As brake band wears, flanged nut will have to be readjusted.

2129R-20.9.71
A new belt will stretch after the first few hours of operation, then after initial stretch, adjustment is seldom necessary.

Remove bolts and nuts (A), from belt guard (B), and remove guard.

FIG. 20

1. Loosen bolt (C), in flat idler and push bolt down in slot of frame until center of idler pulley (D), is 7 1\(\frac{1}{2}\) inches above frame.
2. Tighten bolt (C), in flat idler securely. Make sure belt guide finger on bolt (C), clears belt approximately 1/8 inch.
3. Replace belt guard (B, Fig. 20).

NOTE: Foot pedal should be in vertical or just back of vertical position with clutch engaged.
### HARD TO START

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<thead>
<tr>
<th>Possible Cause</th>
<th>Possible Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No gasoline in fuel tank or carburetor</td>
<td>Fill the tank with gasoline; open fuel shut-off valve. Clean fuel line and carburetor.</td>
</tr>
<tr>
<td>Water in gasoline or old fuel</td>
<td>Drain fuel tank and carburetor. Use new fuel and dry spark plug.</td>
</tr>
<tr>
<td>Choked improperly, flooded engine</td>
<td>Push in choke, open throttle control and crank engine several times to clear out gas.</td>
</tr>
<tr>
<td>Dirty carburetor air filter</td>
<td>Remove and clean. Refer to engine manual.</td>
</tr>
<tr>
<td>Spark plug dirty or improper gap</td>
<td>Clean, adjust the gap or replace. Refer to engine manual.</td>
</tr>
<tr>
<td>Defective battery</td>
<td>Service or replace.</td>
</tr>
<tr>
<td>Defective ignition or loose wiring</td>
<td>Check the wiring and spark plug.</td>
</tr>
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</table>

### ENGINE MISSES OR LACKS POWER

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<thead>
<tr>
<th>Possible Cause</th>
<th>Possible Remedy</th>
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<tr>
<td>Dirty starter air screen</td>
<td>Clean screen over starter, see page 10. Be sure fins on cylinder head and around cylinder are clean.</td>
</tr>
<tr>
<td>Partially plugged air cleaner</td>
<td>Remove and clean. Refer to engine manual.</td>
</tr>
<tr>
<td>Low oil level or dirty oil</td>
<td>Add or change oil, see page 11.</td>
</tr>
<tr>
<td>Improper carburetor adjustment</td>
<td>Refer to engine manual.</td>
</tr>
<tr>
<td>Spark plug dirty, wrong gap or wrong type</td>
<td>Clean, reset the gap or replace.</td>
</tr>
<tr>
<td>Engine overloaded</td>
<td>Shift to a lower gear or reduce load.</td>
</tr>
<tr>
<td>Faulty ignition</td>
<td>Check spark plug and for loose wires. If trouble cannot be corrected, contact Sears.</td>
</tr>
<tr>
<td>Belt slips</td>
<td>Tighten belt. Refer to page 13.</td>
</tr>
<tr>
<td>Oil in gasoline</td>
<td>Drain and refill fuel tank and carburetor. Oil reduces the efficiency of the engine.</td>
</tr>
<tr>
<td>Poor compression</td>
<td>Contact Sears.</td>
</tr>
</tbody>
</table>

### ENGINE OVERHEATS

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<thead>
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<tr>
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</tr>
<tr>
<td>Low oil level or dirty oil</td>
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</tr>
<tr>
<td>Partially plugged muffler</td>
<td>Remove muffler from engine and clean.</td>
</tr>
<tr>
<td>Poor fuel or too lean a mixture.</td>
<td>Refer to engine manual.</td>
</tr>
<tr>
<td>Partially plugged air cleaner</td>
<td>Remove and clean. Refer to engine manual.</td>
</tr>
<tr>
<td>Dirty engine</td>
<td>Clean fins on cylinder head and around cylinder.</td>
</tr>
</tbody>
</table>
how to start if battery is low

1. Connect quick-start battery cables or "jumpers" from your automobile 12 volt battery to the Tractor battery. **CAUTION:** Connect positive (+) terminal to positive (+) terminal. This method of starting is only a means of emergency starting. Have Tractor battery recharged or replaced immediately.

important battery care

Proper attention to the battery on units so equipped is of utmost importance.

Your battery is of the same high standard as is used in automobiles. Unfortunately, it does not have the advantages of automatic attention by the service station attendant as the one in your car.

The following points are recorded to help remind you to provide attention to the battery and gain full advantage of the usable life built into the battery and avoid costly replacements.

1. Check solution level in battery at least once each week. Add distilled water when required. Correct level is bottom of tubes in cells. Refer to page 5. After adding water, run the engine so that the generator charge will mix the solution. **DO NOT OVER FILL.**

2. Keep the battery clean. Remove any collection of grease or other substance from the top of the battery.

3. Keep top of battery clean and dry at all times.

4. Keep battery snug in its cradle or holder.

5. Keep vent caps tight and small vent holes in cap open.

6. If battery should become discharged or fail below a specific gravity of 1.225, remove battery and have it recharged.

7. When recharging, request service station to SLOW CHARGE the battery at a rate of 3 amperes. **FAST CHARGING IS NOT RECOMMENDED.**

SAFETY Pays Off

NEVER REMOVE TRACTOR FUEL TANK CAP OR ADD GASOLINE TO A RUNNING OR HOT ENGINE. NEVER FILL FUEL TANK INDOORS. Wipe up spilled gasoline before starting engine. KEEP GASOLINE IN AN APPROVED, CLOSED CONTAINER.
maintenance (cont.)
winter care--battery

1. If unit is not used regularly during winter months it should be removed and stored in a cool, dry place.

2. If unit is used only infrequently during winter months, check at least once each thirty days to be sure a full charge is maintained.

3. A battery not fully charged can freeze, resulting in the necessity to replace.

4. A safe rule is to charge the battery monthly or least test and recharge if below 1.225 specific gravity.

Please remember the necessity of proper winter care for the battery. Batteries not in use for several months and not kept fully charged, produce a sulphation of the plates which cannot be removed by recharging.

Your guarantee is intended to provide you adequate protection. It does not, however, cover recharging or damage resulting from lack of care, freezing or inability to perform after winter or long storage periods without proper attention.

AFTER OPERATING THE TRACTOR OR ENGINE, NEVER TOUCH THE MUFFLER UNTIL IT HAS HAD SUFFICIENT TIME TO COOL.

storage instructions

In the event your Tractor is to be inoperative for periods in excess of 30 days, prepare for storage as outlined in the next column.

1. Drain fuel tank and carburetor by allowing the engine to run out of gasoline. Gasoline left in your engine will leave gum deposits in the carburetor and fuel tank. This makes fuel system inoperative and will result in hard or non-starting of the engine.

2. Lubricate cylinder by removing the spark plug and pouring one ounce of clean lubricating oil through the spark plug hole into the cylinder. Crank the engine slowly to spread oil and replace the spark plug.

3. Clean the engine and tractor of all foreign matter.

4. Do not save or store gasoline over winter.

STORE YOUR TRACTOR IN A DRY AND PROTECTED PLACE. LEAVING YOUR TRACTOR OUTDOORS, EXPOSED TO THE ELEMENTS, WILL RESULT IN MATERIALLY SHORTENING ITS LIFE.

general

1. Just as your automobile needs professional mechanical maintenance from time to time, so does your air cooled engine. Cleaning and adjustment of the carburetor and periodic replacement of the spark plug and ignition points is made necessary by normal use.

2. Professional air cooled engine service is as close as your nearest Sears Store.

3. A yearly check-up or tune-up by Sears is a good idea to avoid breakdowns or delays. Do it each fall, then you're ready for spring. We even prepare it for storage for you.

BECOME FULLY FAMILIAR WITH THE RULES FOR SAFETY AND INSTRUCTIONS IN THIS MANUAL. YOUR SEARS TRACTOR AND ATTACHMENTS WITH PROVIDE MANY LEISURE HOURS.

Sears, Roebuck and Co. or Simpsons-Sears Ltd. in Canada reserves the right to make any changes in design or improvements without imposing any obligation to install the same upon its items heretofore manufactured.
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### CUSTOM 10E TRACTOR
#### MODEL NO. 917. 25070

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<td>Actuator-Safety Start Switch</td>
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TO THE PURCHASER...

Below space is available to record the serial number, model number, and the date of purchase of your Sears Tractor. We suggest that you record the model number and serial number as this information could be very valuable to you in the future, especially in the case of theft of your tractor, etc. The information also is needed when applying for adjustment under guarantee and also when ordering repair parts.

SERIAL NUMBER

MODEL NUMBER

DATE OF SALE

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ONLY SEARS HAS IT

A NATIONWIDE SERVICE ORGANIZATION
COAST TO COAST
FACTORY APPROVED PARTS AND
EXPERT FACTORY TRAINED MEN

MAINTENANCE AGREEMENT

A modern low cost, full protection Maintenance Agreement is available on this product, coverage up to two full years if desired. No examination necessary if purchased within 30 days of original Tractor purchase. Contact your nearest Sears Store.
CUSTOM 10E TRACTOR

The Model Number will be found on a plate attached to the rear of the Chassis Assembly and beneath the Seat. Always mention the Model Number when requesting service or repair parts for your Tractor.

All parts listed herein may be ordered through SEARS, ROEBUCK AND CO., or SIMPSONS-SEARS LIMITED. When ordering parts by mail, selling prices will be furnished on request or parts will be shipped at prevailing prices and will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST.

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2. The PART DESCRIPTION
   3. The MODEL NUMBER 917.25070
   4. The NAME OF ITEM—Tractor

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