

Sears

owners manual

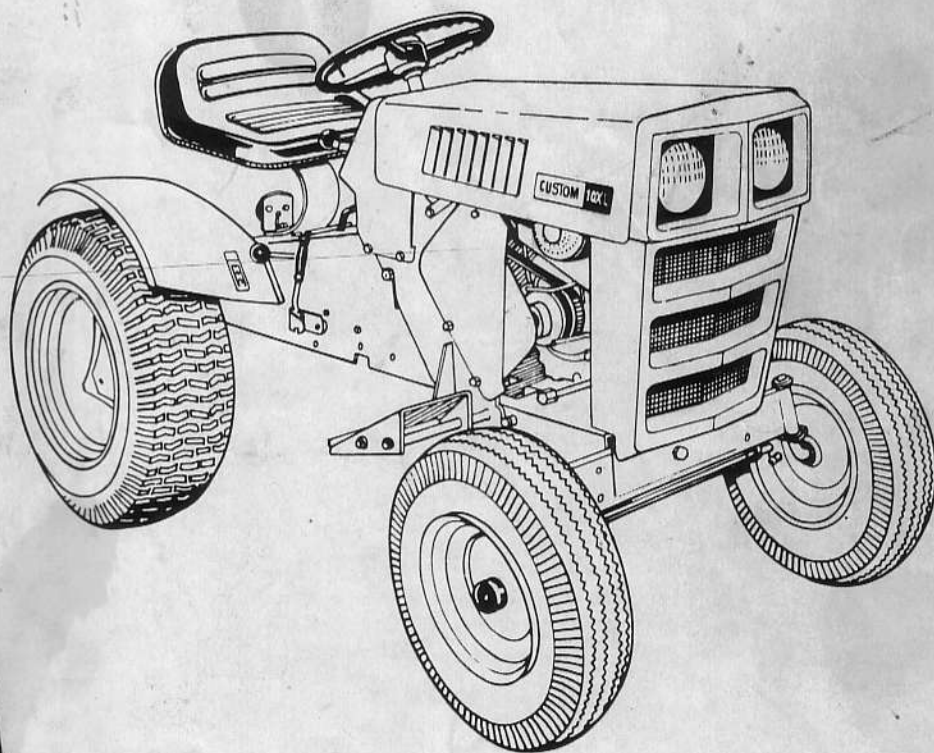
CUSTOM 10XL TRACTOR

MODEL NO.
917.25061

CAUTION:

Read Rules for
Safe Operation
and Instructions
Carefully

- Assembly
- Operating
- Maintenance
- Repair Parts



SEARS, ROEBUCK AND CO. U.S.A.

SIMPSON-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. Know the controls and how to stop quickly -
READ THE OWNER'S MANUAL.
2. Do not allow children to operate tractor. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. Keep children and pets a safe distance away.
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine.
6. Disengage power to attachments and stop engine before leaving operator position.
7. Disengage power to attachment(s) and stop engine before making any repairs or adjustments.
8. Disengage power to attachments when transporting or not in use.
9. Take all possible precautions when leaving tractor unattended; such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Drive up and down the face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. 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 weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near tractor while in operation.
16. 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.
 - C. Open doors if engine is run in garage -- exhaust fumes are dangerous. Do not run engine indoors.
 - D. Never smoke while refueling engine.
17. Keep tractor and attachments in good operating condition and keep safety devices in place.
18. Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
19. Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
20. Allow engine to cool before storing in any enclosure.
21. To reduce fire hazard keep engine free of grass, leaves or excessive grease.

rules for safe operation (cont.)

22. 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.
23. Do not change engine governor settings or over-speed engine.
24. When using tractor with mower:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
 - (3) Shut engine off when removing grass catcher and/or unclogging chute.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.

reference drawing for assembly and instructions

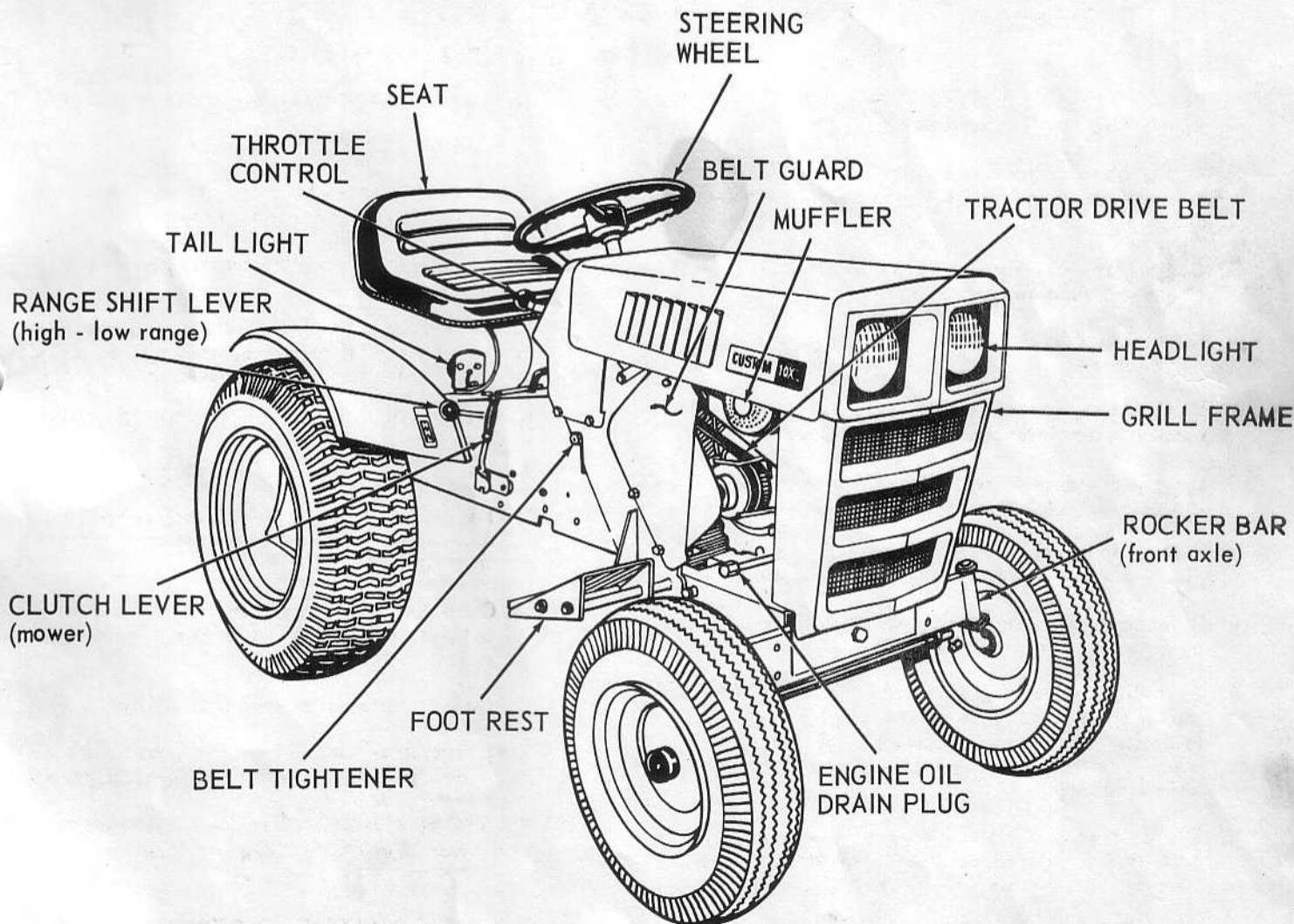


FIG. 1

reference drawing for assembly and instructions (cont.)

MAINTENANCE
REMINDER

BATTERY
GROUND STRAP
(to negative terminal)

BATTERY CABLE
(to plus terminal)

FUEL TANK

OIL FILLER CAP
AND DIP STICK

MUFFLER

FUSE HOLDER AND FUSE
(for lights)

GEAR SHIFT LEVER
PARKING BRAKE
THROTTLE CONTROL
SHIFT PATTERN PLATE
RANGE SHIFT LEVER
(high-low range)

IGNITION AND
STARTER SWITCH

CHOKE

STARTER AIR
SCREEN

DRIVE, CLUTCH
AND BRAKE PEDAL

AIR CLEANER

FUEL TANK
SHUT-OFF VALVE

FIG. 2

introduction

This tractor 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 OBSERVE THE "RULES FOR SAFE OPERATION" as well as other instructions contained in these manuals.

Your new tractor is used to provide power for operating or pulling a large variety of matched attachments. The air cooled engine transmits power to the rear wheels. The transmission is geared to provide all the travel speeds required for those attachments. Use the same care and attentiveness when operating your tractor as you would when driving your automobile.

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 parenthesis 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 12 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
 - 2 - Battery Bolts
 - 2 - Flat Washers(These items hold battery in position on Tractor. They are used in step 3, page 5).
- 2 - Hex nuts
(They secure ground strap and positive cable to battery. They are used in steps 4 and 5, page 5).
- 2 - 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).



STUDY TRACTOR AND ENGINE
OWNERS MANUAL...

assembly (cont.)

fill and charge battery

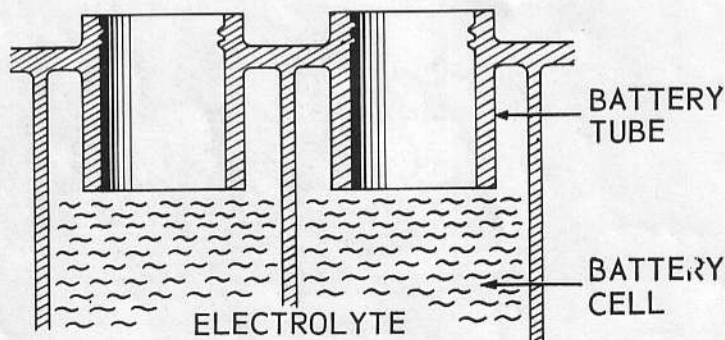
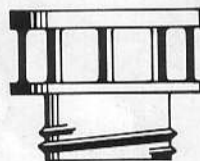
CAUTION: DO NOT ASSEMBLE BATTERY TO TRACTOR UNTIL BATTERY HAS BEEN FILLED AND CHARGED.

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
WARNING DO NOT OVERFILL--
CORRECT LEVEL IS
BOTTOM OF TUBES IN CELLS . .



CUT-AWAY VIEW
OF BATTERY



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

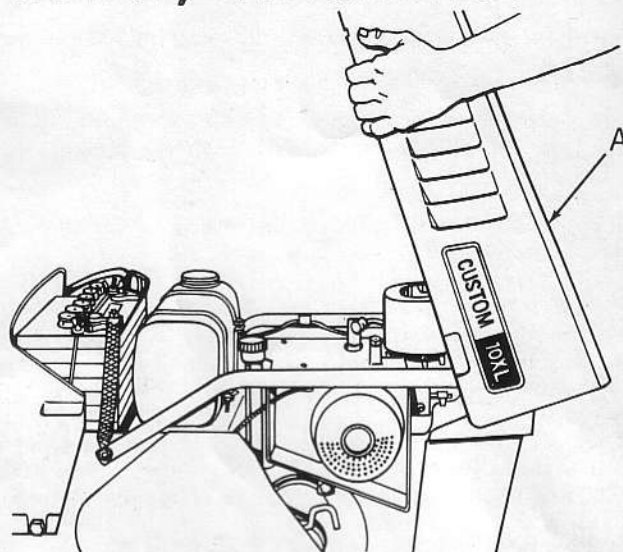


FIG. 3

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.

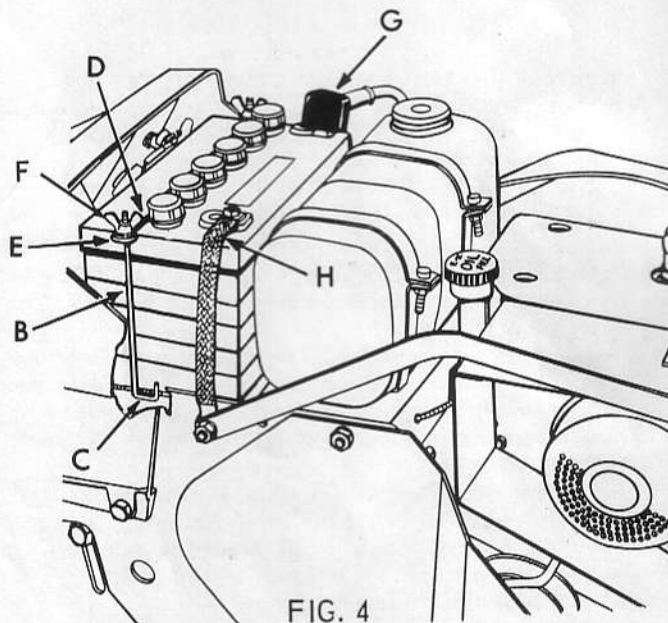


FIG. 4

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.
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.
6. Be sure terminal cover (G), is in place on positive terminal.

assembly (cont.)

seat position

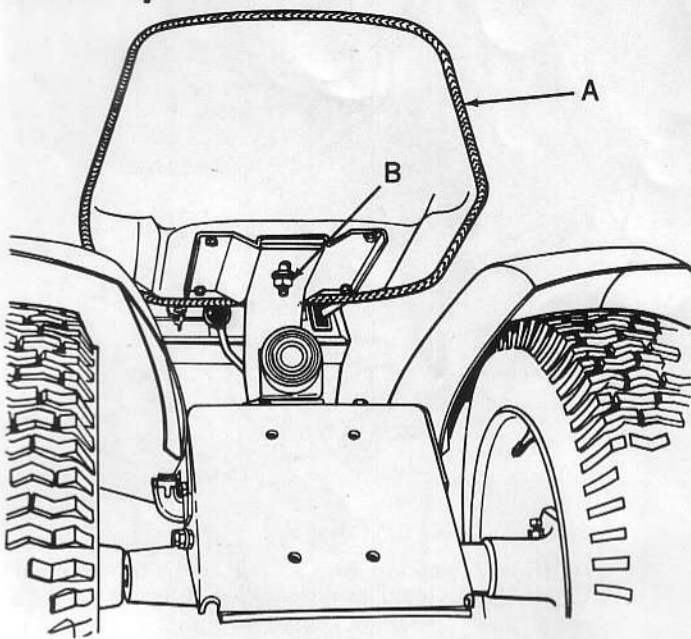


FIG. 5

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. Slide the seat to the position desired. Tighten the nut. Make sure that the seat plate has not twisted out of alignment with the seat spring.

instructions before operating



STUDY RULES FOR
SAFE OPERATION....

BEFORE STARTING THE ENGINE, become thoroughly familiar with the Rules for Safe Operation, listed on pages 1 and 2, and with the operating controls. **KNOW THE CONTROLS AND HOW TO STOP QUICKLY.**

controls

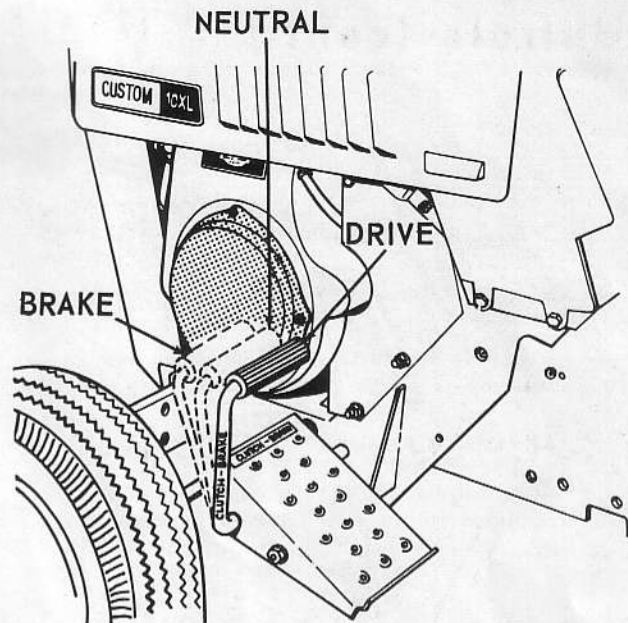


FIG. 6

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

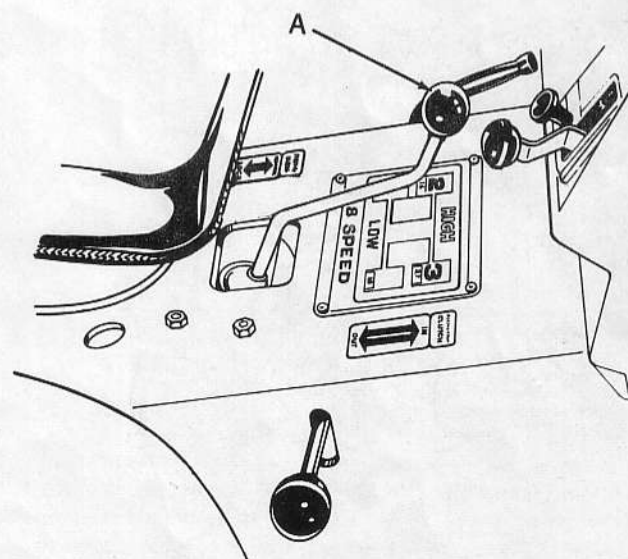


FIG. 7

2. The transaxle (transmission) gear shift lever (A), is located at front, center of seat.
 - a. The gear shift lever selects the FORWARD, NEUTRAL and REVERSE gears.

instructions before operating (cont.)

controls (cont.)

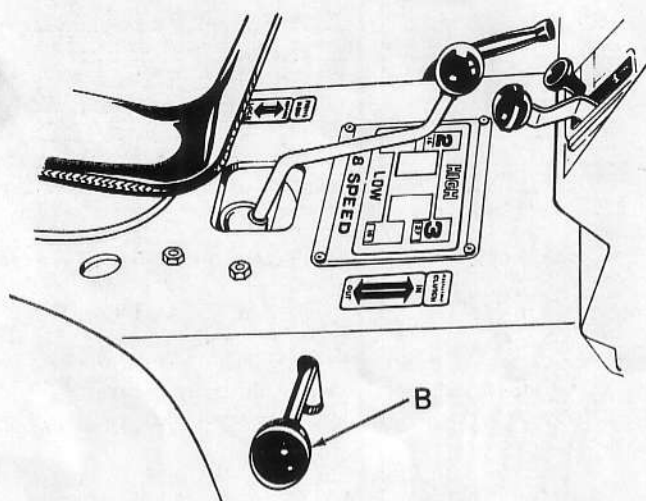


FIG. 8

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 high-low range lever in neutral for easier pushing of tractor or when tractor is being towed.

ALWAYS COME TO A FULL STOP
BEFORE SHIFTING
GEARS...

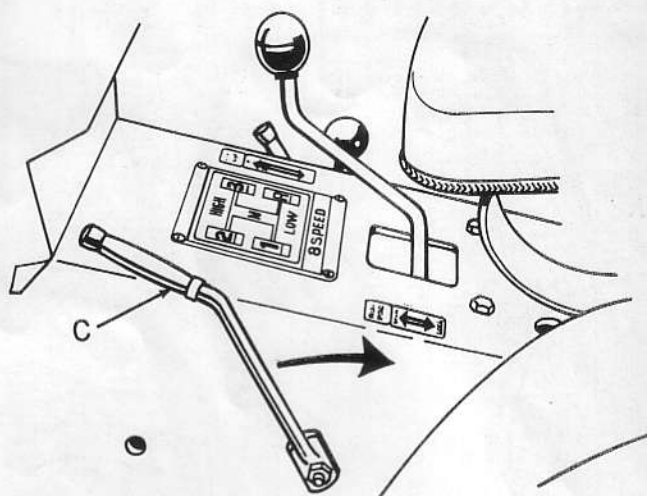


FIG. 9

4. To engage parking brake, pull park brake lever (C) to rear (lock) position. To release parking brake push lever (C) forward.

fuel and lubricant

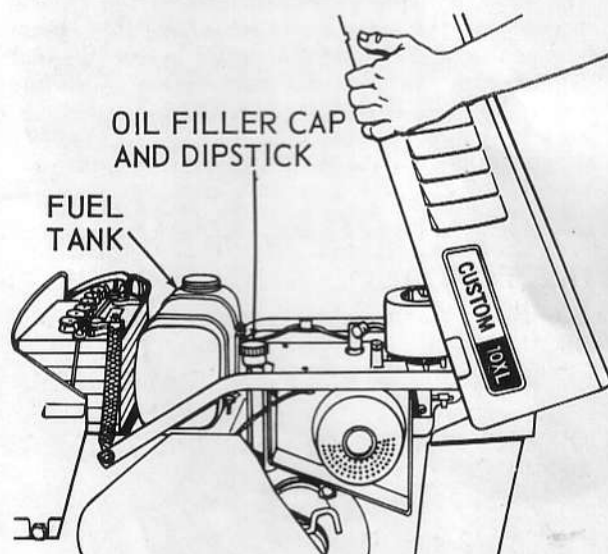


FIG. 10

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. #30 oil 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.
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.

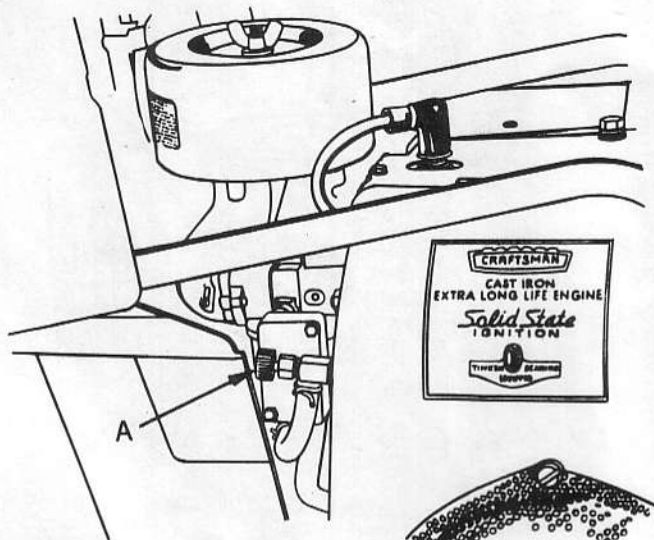


FIG. 11

1. Open gasoline shut-off valve (A). Close gasoline shut-off valve after each days use.

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, THIS GASOLINE TANK SHOULD BE DRAINED. DISCARD THE GASOLINE IN A SAFE PLACE. ALLOW ENGINE TO COOL BEFORE STORING IN ANY ENCLOSURE.

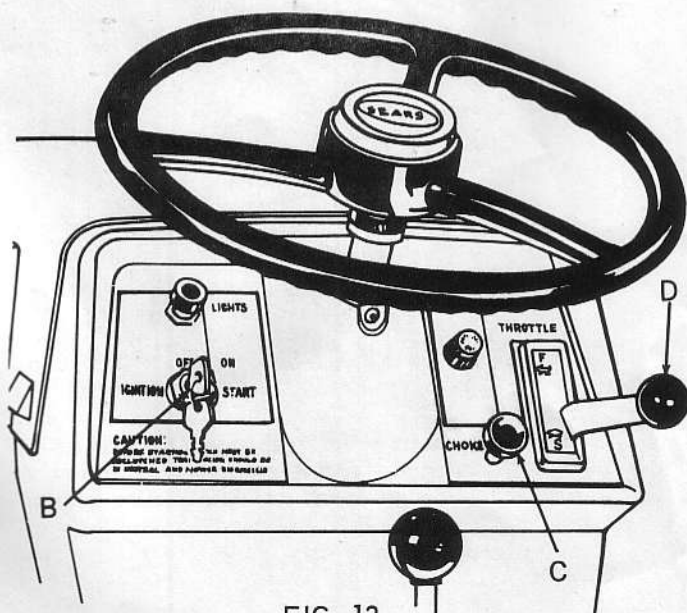


FIG. 12

2. Pull out choke control (C), to full choke position to start in cold weather.
3. Advance throttle control lever (D), to about $\frac{1}{2}$ throttle.
4. This tractor is equipped with two safety switches. One switch is located on the foot pedal shaft. The other switch is located on the attachment (mower) clutch lever. The foot pedal must be depressed (pushed forward) all the way. The attachment (mower) clutch lever must also be in disengaged (pulled back to out) position for the engine to start. Turn key (B) in ignition-starter switch clockwise to engage starter. When engine starts, release key. After engine starts, push in choke control (C), as engine warms up. Let engine warm up, before applying load. CAUTION: Do not run starter continuously for more then 30 seconds at a time. If after several attempts engine does not start, move throttle control (D) to fast position. Wait for two minutes, then try again.
5. To stop engine, turn key (B), in a counter-clockwise direction to OFF position. Key should be removed so children can not start Tractor.

**REMOVE THE IGNITION KEY
KEEP OUT OF REACH
OF CHILDREN!**



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 $\frac{1}{2}$ 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.

KEEP WORKING AREA CLEAR- ADULTS-

PETS-

CHILDREN..

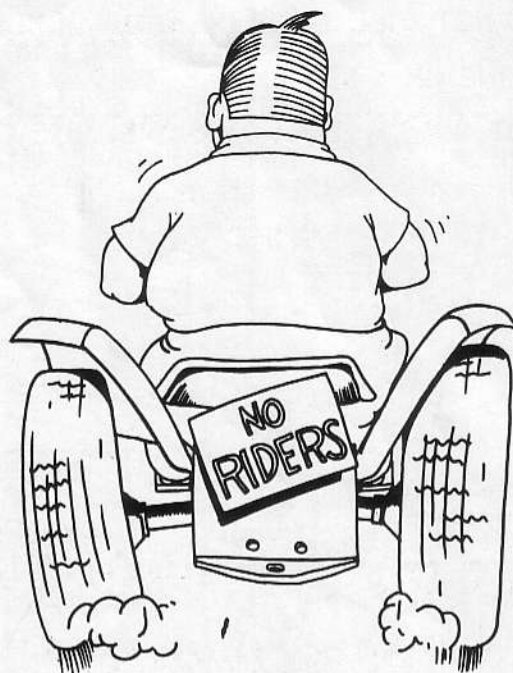


5. Do not operate the Tractor in high gear going down hill. Do not turn sharp corners while going down hill. If it is necessary to stop Tractor while going down hill, do so quickly to prevent Tractor from picking up speed during the declutching to brake position.

NOTE: The engine produces considerable braking action when throttled back to idling speed without declutching. This procedure is recommended before applying brake.

DO NOT OPERATE TRACTOR ACROSS SLOPES. DO NOT OPERATE TRACTOR UP OR DOWN SLOPES WITH MORE THAN A 15 DEGREE SLOPE.

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.



LOOK
BEFORE
BACKING...



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!

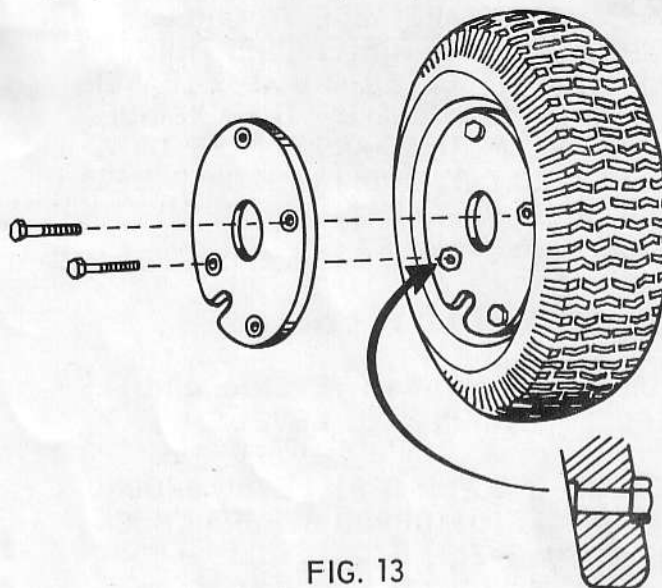


CLEAR THE AREA OF RUBBISH
BEFORE
MOWING!



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

weights (optional equipment)

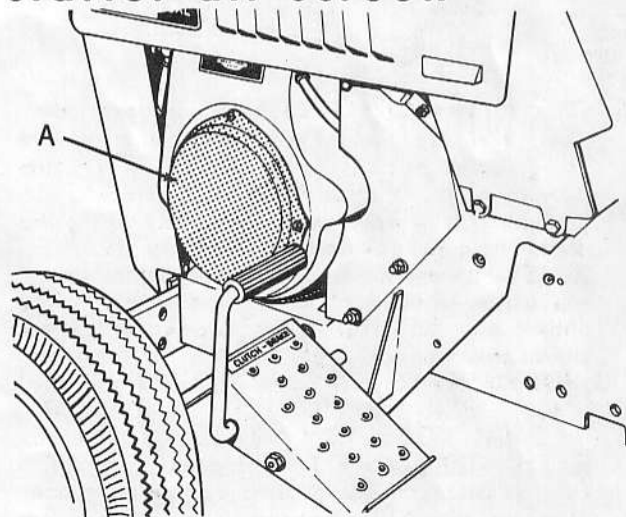


1. Rear wheel weights are very essential for added traction. This is especially true for attachments such as the plow, disc harrow, leveler blade, snow thrower, bulldozer-snow-plow, etc.

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



The starter screen guard (A), and the starter rotating screen (located directly behind the starter screen guard), are designed to keep grass, chaff and leaves from entering the cooling system. They 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. This 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.

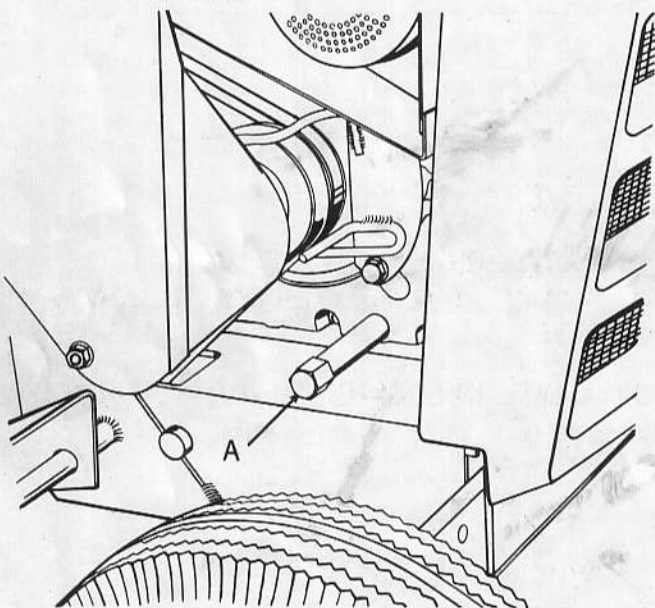


FIG. 15

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. 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.

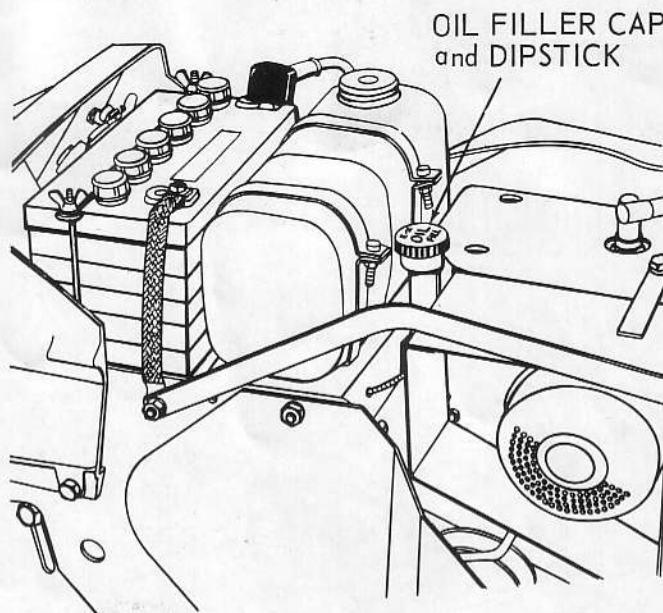


FIG. 16

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. 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

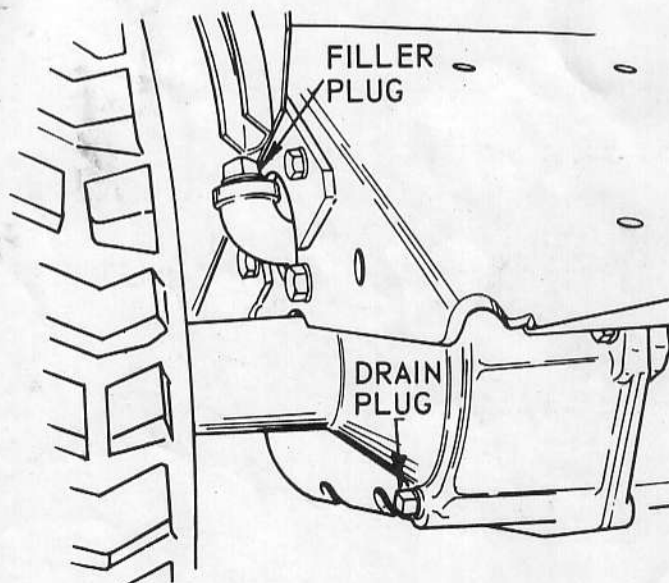
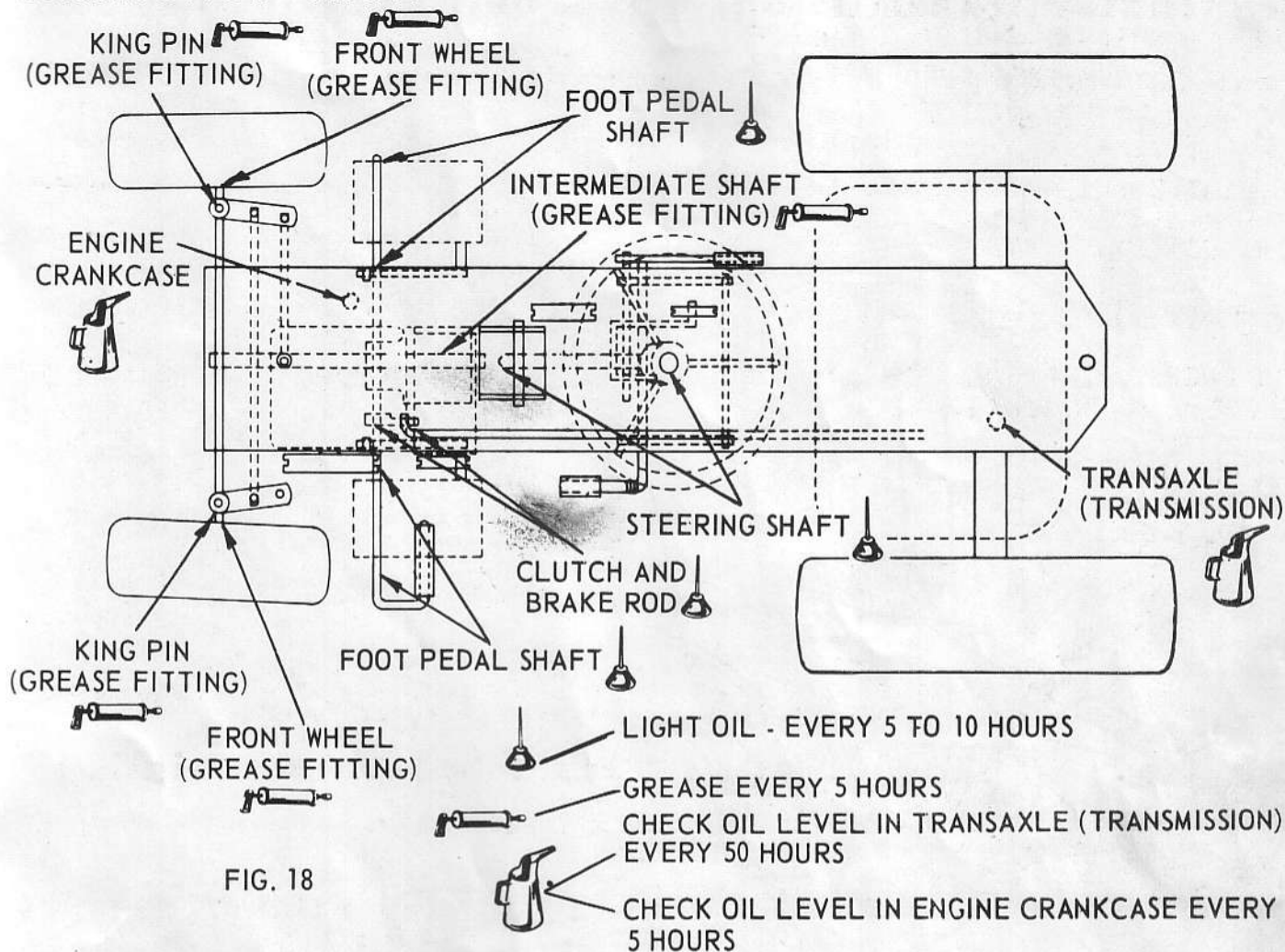


FIG. 17

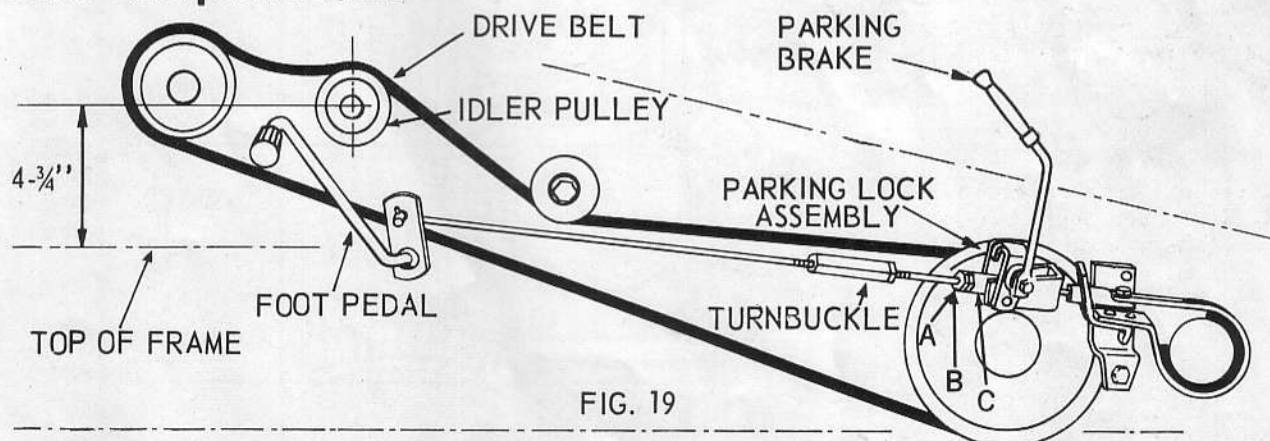
1. Check oil in transaxle (transmission) every 50 hours of operation. To check oil level, remove filler plug from transaxle. Oil level should be even with this plug.
2. Change oil in transaxle after 500 hours of operation. To drain, remove drain plug and catch oil in suitable container.
3. To fill transaxle, 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



brake adjustment



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.

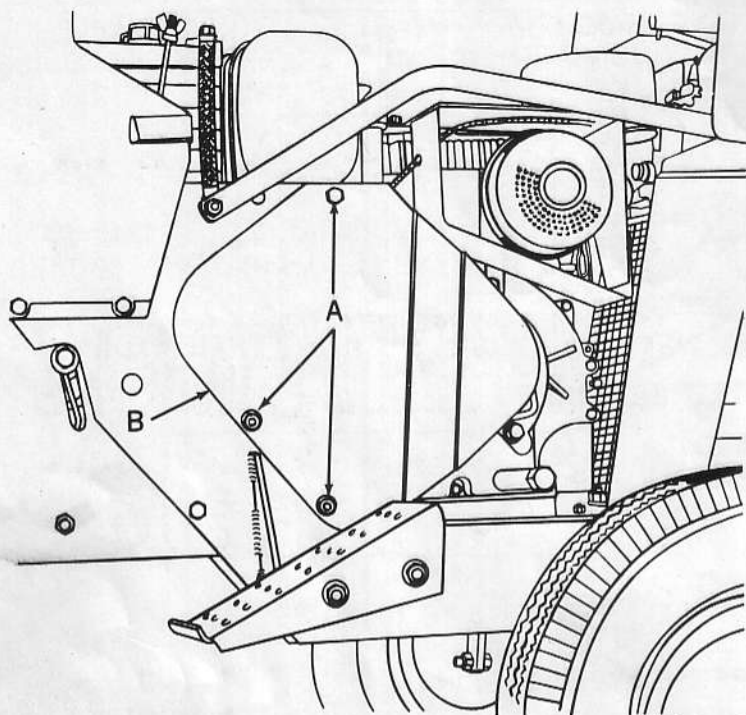
park brake lock adjustment

To tighten parking brake loosen hex nuts (A and B). Rotate parking lock lever to lock position. By hand press foot pedal forward to full brake position. While holding brake pedal forward tighten nut (B) against bushing (C) finger tight. Release foot pedal, and turn nut (B) back against bushing (C) two additional turns. Tighten nut (A) against nut (B) to lock in position. Place high-low lever in neutral position. Pull parking lock lever back (lock) position. Rear wheels of tractor should slide when tractor is pushed.

maintenance (cont.)

transaxle (transmission) drive belt adjustment

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

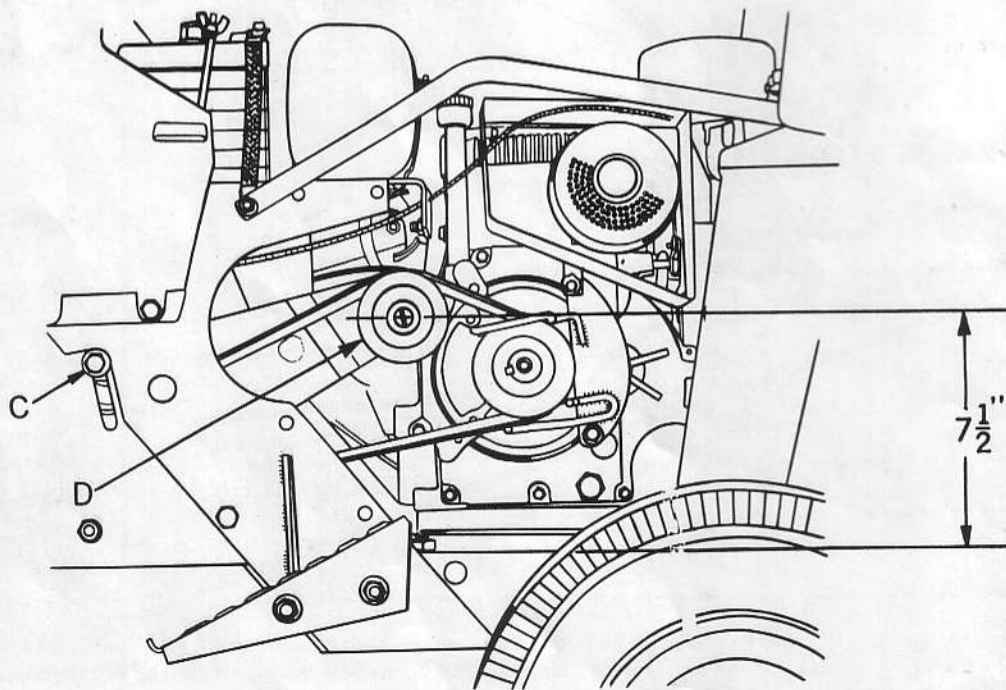


FIG. 21

1. Loosen bolt (C), in flat idler and push bolt down in slot of frame until center of idler pulley (D), is 7½ 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.

maintenance (cont.)

trouble shooting

WON'T START

Possible Cause

Dead battery
Foot pedal not depressed
Mower clutch lever not disengaged

Possible Remedy

Recharge or replace
Depress foot pedal.
Disengage mower clutch lever (pull back).

HARD TO START

No gasoline in fuel tank or carburetor
Water in gasoline or old fuel
Choked improperly. Flooded engine
Dirty carburetor air filter
Spark plug dirty or improper gap
Defective battery
Defective ignition or loose wiring

Fill the tank with gasoline; open fuel shut-off valve.
Clean fuel line and carburetor.
Drain fuel tank and carburetor. Use new fuel and dry
spark plug.
Push in choke, open throttle control and crank engine
several times to clear out gas.
Remove and clean. Refer to engine manual.
Clean, adjust the gap or replace. Refer to engine
manual.
Service or replace.
Check the wiring and spark plug.

ENGINE MISSES OR LACKS POWER

Dirty starter air screen
Partially plugged air cleaner
Low oil level or dirty oil
Improper carburetor adjustment
Spark plug dirty, wrong gap or wrong type
Engine overloaded
Faulty ignition
Belt slips
Oil in gasoline
Poor compression

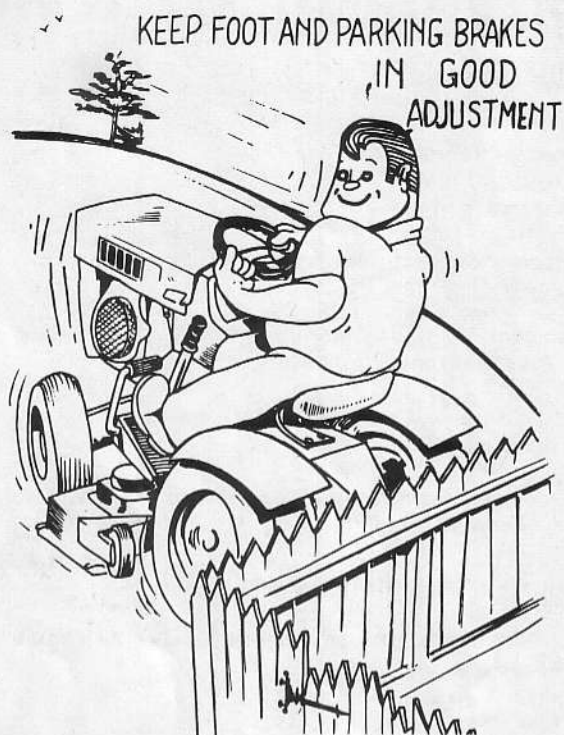
Clean screen over starter, see page 10. Be sure fins
on cylinder head and around cylinder are clean.
Remove and clean. Refer to engine manual.
Add or change oil, see page 11.
Refer to engine manual.
Clean, reset the gap or replace.
Shift to a lower gear or reduce load.
Check spark plug and for loose wires. If trouble
cannot be corrected, contact Sears.
Tighten belt. Refer to page 13.
Drain and refill fuel tank and carburetor. Oil re-
duces the efficiency of the engine.
Contact Sears.

ENGINE OVERHEATS

Dirty starter air screen
Low oil level or dirty oil
Partially plugged muffler
Poor fuel or too lean a mixture.
Partially plugged air cleaner
Dirty engine
2578R-1.2.72

Clean screen over starter, see page 10.
Add or change oil, see page 11.
Remove muffler from engine and clean.
Refer to engine manual.
Remove and clean. Refer to engine manual.
Clean fins on cylinder head and around cylinder.

maintenance (cont.)



tires

Keep tires inflated to 12 pounds of air pressure in front; 8 pounds in rear.

Avoid stumps, stones, deep ruts and other hazards. Cuts in tires should be repaired immediately as neglect decreases the tire life. Keep tires free from oil and grease as both destroy rubber. After using the Tractor for spraying--insect control work--wash off any chemicals that may be on the tires.

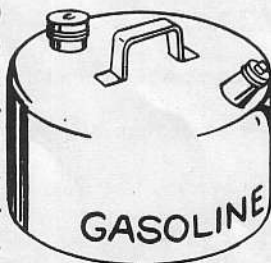
To remove a front tire and wheel proceed as follows:

1. Remove hub cap.
2. Unsnap "E" ring from king pin (front axle).
3. Remove flat washer.
4. Slide wheel and tire from king pin (front axle).

A rear wheel and tire is removed by removing the three hub bolts from wheel and hub.

Sears or your local service station can repair your Tractor tire in the same manner as an automobile tire.

NEVER REMOVE TRACTOR FUEL TANK CAP OR ADD GASOLINE TO A RUNNING OR HOT ENGINE. NEVER FILL FUEL TANK IN-DOORS. WIPE UP SPILLED GASOLINE BEFORE STARTING ENGINE. KEEP GASOLINE IN AN APPROVED, CLOSED CONTAINER.



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 fall 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



maintenance (cont.)

winter care--battery

1. If unit is not used regularly during winter months. The battery should be removed and stored in a cool, dry place.
2. If unit is used only infrequently during winter months. Check battery 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 at 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. 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

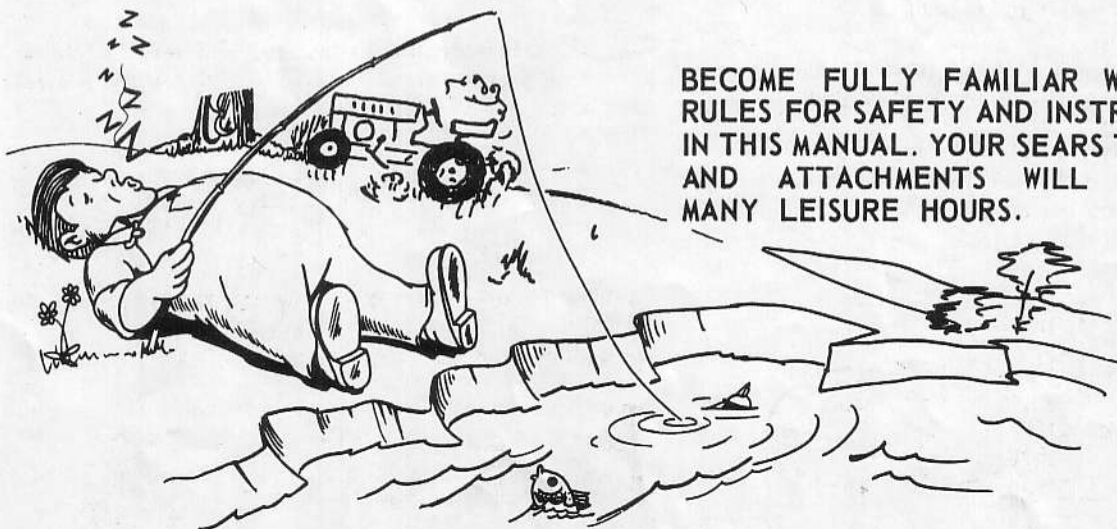
In the event your Tractor is to be inoperative for periods in excess of 30 days - prepare for storage as outlined in the next column.

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. Pour 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.

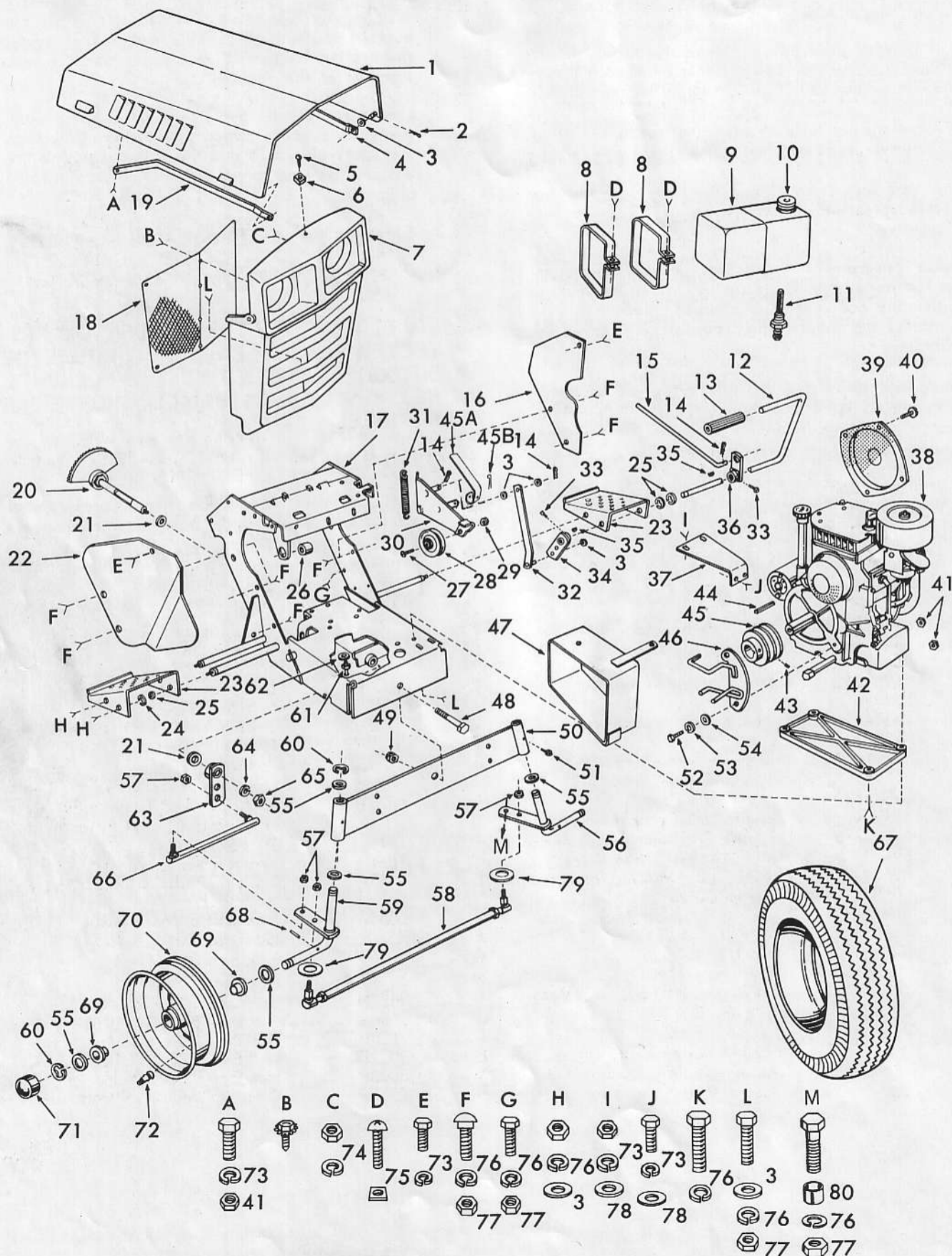


BECOME FULLY FAMILIAR WITH THE RULES FOR SAFETY AND INSTRUCTIONS IN THIS MANUAL. YOUR SEARS TRACTOR AND ATTACHMENTS WILL PROVIDE MANY LEISURE HOURS.

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.

repair parts

CUSTOM 10XL TRACTOR MODEL NUMBER 917.25061



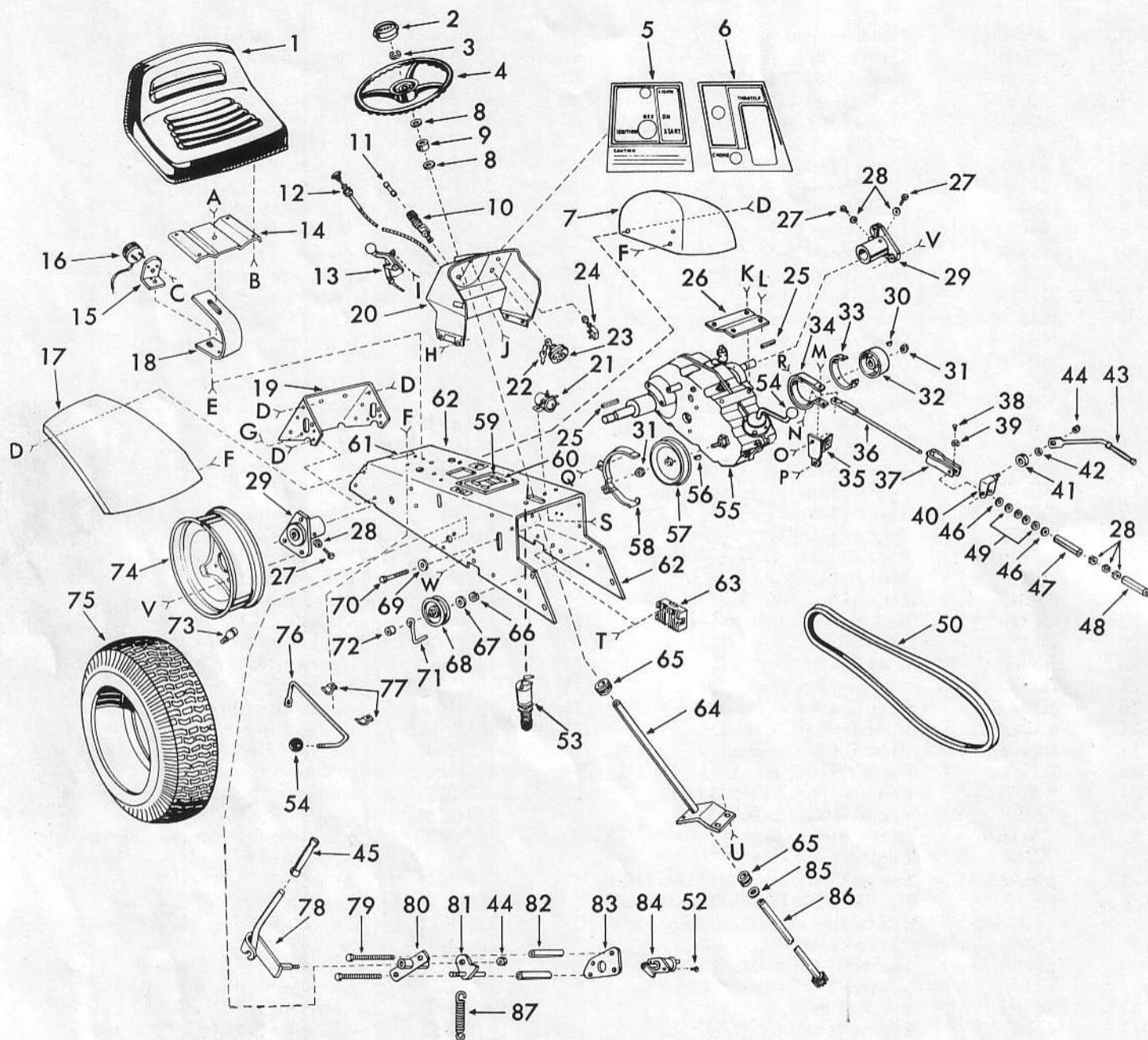
repair parts

CUSTOM 10XL TRACTOR MODEL NUMBER 917.25061

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	626A268	Hood Assembly	46	626A188	Belt Guide Assembly
2	2503P	Cotter Pin 3/32 x 3/4	47	626A317	Heat Shield Assembly
3	1513P	Washer 13/32 x 13/16 x 16 Ga.	48	3217P	Hex Bolt 5/8-11 x 3 1/2
4	805R	Grill Brace - L.H.	49	4764H	Huglock Nut 5/8-11
5	3198P	Slotted Rd. Hd. Mach. Screw #10-24 x 1	50	626A244	Rocker Bar (Front Axle) Assembly
6	8887H	Rubber Bumper	51	6855M	Grease Fitting
7	504R	Grill Frame	52	3021P	Hex Bolt 3/8-16 x 3/4
8	809R	Tank Strap	53	1004P	Lockwasher 3/8
9	814R	Fuel Tank	54	1557P	Washer 13/32 x 13/16 x 11 Ga.
10	2188R	Gas Tank Cap	55	1552P	Washer 49/64 x 1 1/4 x 16 Ga.
	815R	Fuel Line Fitting	56	626A193	King Pin Assembly-L.H.
12	1795R	Foot Pedal Shaft	57	511P	Nylock Nut 3/8-24
13	8156H	Foot Pedal Sleeve	58	816R	Tie Rod, Adjustable
14	2505P	Cotter Pin 1/8 x 3/4	59	626A194	King Pin Assembly-R.H.
15	8811H1	Brake Rod-Front	60	5000P	E Ring
16	664R	Tie Plate Cover	61	6842M	Grease Fitting
17	626A349	Engine Mount and Tie Plate Assembly	62	1505P	Washer 9/32 x 1/2 x 14 Ga.
18	8837H	Grill Screen	63	626A254	Steering Arm Assembly
19	806R	Grill Brace-R.H.	64	1544P	Washer 15/32 x 59/64 x 16 Ga.
20	626A253	Intermediate Shaft Assembly	65	7762H	Locknut 7/16-14
21	9000H	Thrust Washer	66	5137H	Steering Link
22	8212H	Belt Guard	67	2175R	Tire Tubless
23	8172H	Foot Rest	68	5142H	Roll Pin 3/16 x 1 1/4
24	1549P	Washer 41/64 x 1 x 12 Ga.	69	9040H	Flanged Bearing
25	5001P	E Ring	70	2174R	Front Wheel
26	8094H	Bearing	71	2118R	Hub Cap
27	1343R	Idler Stud	72	795R	Valve
28	1342R	Idler Pulley	73	1007P	Lockwasher 5/16
29	548P	Hex Jam Locknut 3/8-24	74	1006P	Lockwasher #10
30	626A300	Idler Bracket Assembly	75	503P	Sq. Nut 1/4-20
31	5105H	Idler Spring	76	1004P	Lockwasher 3/8
32	626A196	Clutch Rod Assembly	77	501P	Hex Nut 3/8-16
33	4501P	Set Screw Sq. Hd. 5/16-18 x 1/2	78	1537P	Washer 11/32 x 11/16 x 16 Ga.
34	626A31A	Steering Arm Assembly	79	2515R	Harden Washer
35	9858M1	Woodruff Key 3/16 x 5/8	80	2516R	Spacer
36	634A33A	Brake Arm Assembly	A	3159P	Hex Bolt 5/16-18 x 7/8
37	1796R	Engine Tie Bracket	B	6029P	Hex (Ind) Self Tapping Screw w/sems Ext Lockwasher 1/4
38	626A316	Engine Craftsmen 10HP. Model No. 143.629012 See Price List 932.00 For Ordering Instructions	C	505P	20 x 5/8
39	704R	Screen Guard	D	3153P	Hex Nut #10-24
40	6040P	Slotted Fil. Hd. Mach. Screw w/sems Lockwasher 1/4-28 x 3/4	E	3010P	Rd. Hd. Phillips Mach. Screw 1/4-20 x 1 1/4
41	504P	Hex Nut 5/16-18	F	8P	Hex Bolt 5/16-18 x 3/4
42	668R	Engine Mounting Block	G	3023P	Carriage Bolt 3/8-16 x 1
43	4525P	Set Screw. Hex Socket Hdless 3/8-16 x 3/8	H	501P	Hex Bolt 3/8-16 x 1
44	9396E	Sq. Key 1/4 x 2	I	1685H	Hex Nut 3/8-16
45	626A221	Engine Pulley w/Set Screw	J	3010P	Lock Nut 5/16-18
45A	1774R	Actuator-Safety Start Switch	K	3028P	Hex Bolt 5/16-18 x 3/4
45B	2507P	Cotter Pin 1/8 x 1 1/4	L	3027P	Hex Bolt 3/8-16 x 1 1/4
			M	3028P	Hex Bolt 3/8-16 x 1 1/2
			----	2578R	Hex Bolt 3/8-16 x 1 3/4
					Owners Manual and Parts List

repair parts

CUSTOM 10XL TRACTOR MODEL NUMBER



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
88	91	92	93	94	94	94	94	95	95	67	67	91	95	95	46	91	95	95	95	98	97	97
89				28	28	28	66	28		67	66	96	97	94								
90																						

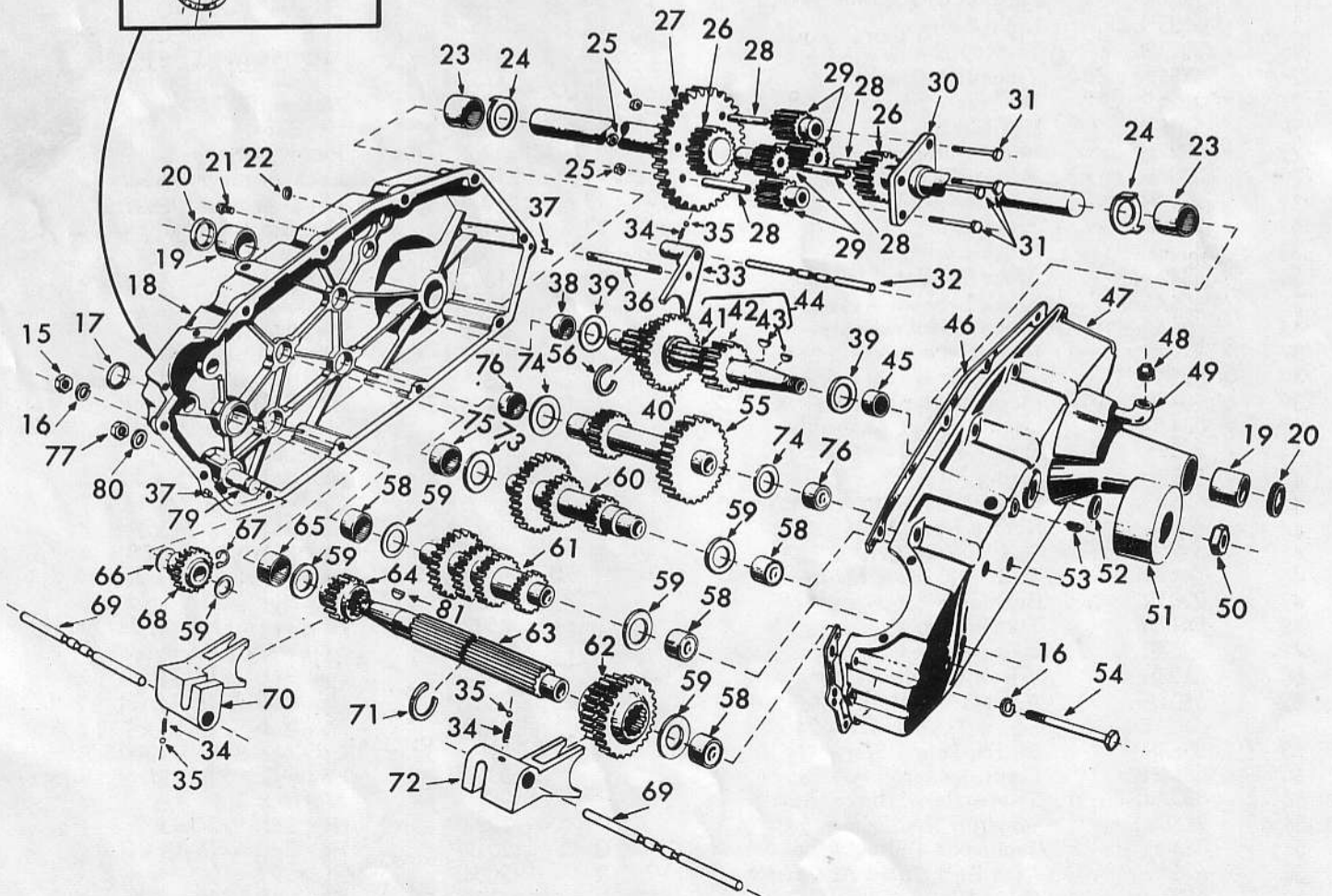
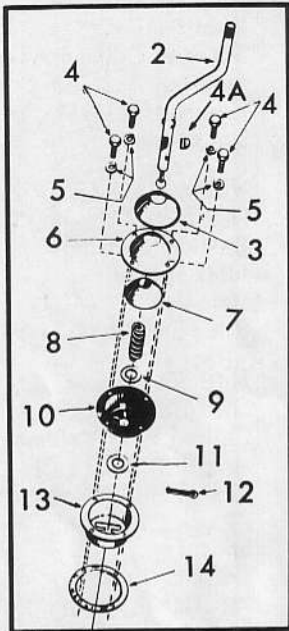
repair parts

CUSTOM 10XL TRACTOR MODEL NUMBER 917.25061

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	2054R	Seat	62	2251R	Chassis Channel
2	9357H	Steering Wheel Cap	63	672R	Rectifier
3	5000P	E Ring	64	626A109	Steering Column Assembly
4	5138H	Steering Wheel	65	4437H	Steering Bushing
5	1771R	Dash Panel-L.H.	66	500P	Hex Nut 7/16-14
6	2241R	Dash Panel-R. H.	67	1001P	Lockwasher 7/16
7	634A212A	Fender and Brace-L. H.	68	6635H	Flat Idler
8	9007H	Cap	69	1544P	Washer 15/32 x 59/64 x 16 Ga.
9	5949H	Rubber Bushing	70	3197P	Hex Bolt 7/16-14 x 3/4
10	2211R	Fuse Holder	71	6479H1	Belt Guide Finger
11	2212R	Fuse 15amp.	72	8209H	Idler Spacer
12	6466H	Choke Control	73	795R	Valve
13	626A255	Throttle Control	74	7226H	Rim Disc Wheel
14	1758R	Seat Plate	75	2165R	Tire-Tubeless 7:50 x 12
15	8143H	Tail Light Bracket	76	6477H	Shift Range Rod
16	8169H1	Tail Light	77	6442H	Shift Rod Bracket
17	634A213A	Fender and Brace-R.H.	78	626A347	Chute Lever Weldment
18	5053H	Seat Spring	79	3254P	Hex Bolt 1/4-20 x 3/2
19	634A101	Drawbar and Weldnuts	80	626A345	Clutch Hub Weldment
20	2213R	Dashboard Less Panels	81	626A346	Clutch Lever Stop Weldment
21	103R	Solenoid	82	2215R	Spacer
22	7552H	Key	83	2218R	Switch Plate
23	2210R	Ignition and Starter Switch	84	2256R	Implement Safety Switch
24	5735H	Light Switch	85	1552P	Washer 49/64 x 1 1/4 x 16 Ga.
25	8327H	Sq. Key 1/4 x 3	86	626A29	Steering Shaft Assembly
26	6459H	Transaxle Bracket	87	2255R	Clutch Return Spring
27	4524P	Set Screw Sq. Hd. 3/8-16 x 1 1/4	88	1560P	Washer 17/32 x 1 1/2 x 11 Ga.
28	501P	Hex Nut 3/8-16	89	1000P	Lockwasher 1/2
29	8827H	Wheel Hub-Rear	90	502P	Hex Nut 1/2-13
30	2228M	Woodruff Key 3/16 x 3/4 H.T.	91	1007P	Lockwasher 5/16
31	9204H	Locknut 1/2-20	92	1006P	Lockwasher #10
32	7648H1	Brake Drum	93	505P	Hex Nut #10
33	7645H	Brake Lining	94	1004P	Lockwasher 3/8
34	634A167	Brake Band and Lining	95	1002P	Lockwasher 1/4
35	626A208	Brake Bracket Assembly	96	1685H	Locknut 5/16-18
36	626A365	Brake Rod Assembly	97	503P	Hex Nut 1/4-20
37	2197R	Park Brake Yoke	98	8698H	Flange Locknut
38	3256P	Hex Bolt 1/4 - 28 x 5/8 H.T.	A	25P	Carriage Bolt 1/2-13 x 1 1/4
39	9071H	Huglock Nut 1/4 - 28	B	3009P	Hex Bolt 5/16-18 x 5/8
40	634A489	Lock Bracket Assembly	C	3073P	Slotted Truss Hd. Mach. Screw #10-24 x 1/2
41	2221R	Park Lock Spacer			
42	5999H	Spring Washer	D	3023P	Hex Bolt 3/8-16 x 1
43	626A341	Parking Lock Handle Assembly	E	8P	Carriage Bolt 3/8-16 x 1
44	511P	Nylock Nut 3/8-24	F	3022P	Hex Bolt 3/8-16 x 7/8
45	4379H	Shift Handle Grip	G	3035P	Hex Bolt 7/16-14 x 1 1/4
46	1557P	Washer 13/32 x 13/16 x 11 Ga.	H	3027P	Hex Bolt 3/8-16 x 1 1/2
47	2201R	Bushing	I	503P	Hex Nut 1/4-20
48	6417H	Turnbuckle	J	4502P	Hex socket Hd. ss. Set Screw 5/16-18 x 5/16 nylock
49	2263R	Springwasher			
50	8833H	V-Belt (engine to transaxle)	K	3034P	Hex Bolt 7/16-14 x 1
52	5501P	Pan Hd. Phillips Th'd Cutting Screw Type T #10 - 24 x 1/2	L	3034P	Hex Bolt 7/16-14 x 1
			M	3159P	Hex Bolt 5/16-18 x 7/8
53	2565R	Switch-Safety Start	N	11P	Carriage Bolt 1/4-20 x 5/8
54	6364H	Control Knob	O	3164P	Under-Cut Flat Hd. Mach. Screw 3/8-16 x 3/4
55	633A45	Transaxle w/Brake Drum	P	3022P	Hex Bolt 3/8-16 x 7/8
56	9858M1	Woodruff Key 3/16 x 5/8	Q	3010P	Hex Bolt 5/16-18 x 3/4
57	8840H	Transaxle Pulley w/Set Screw	R	2004P	Rivet #4 x 1/4
58	626A209	Rear Belt Guard Assembly	S	3115P	Hex Bolt 1/4-20 x 5/8
59	9521H	Drive Rivet	T	3153P	Rd. Hd. Phillips Mach. Screw 1/4-20 x 1 1/4
60	1765R	Shift Plate			
61	-----	Model Plate	U	3023P	Hex Bolt 3/8-16 x 1
			V	1304H	Hub Bolt
			W	3255P	Hex Bolt 1/4-20 x 1 1/4 H.T.

repair parts

CUSTOM 10XL TRACTOR MODEL NUMBER 917.25061



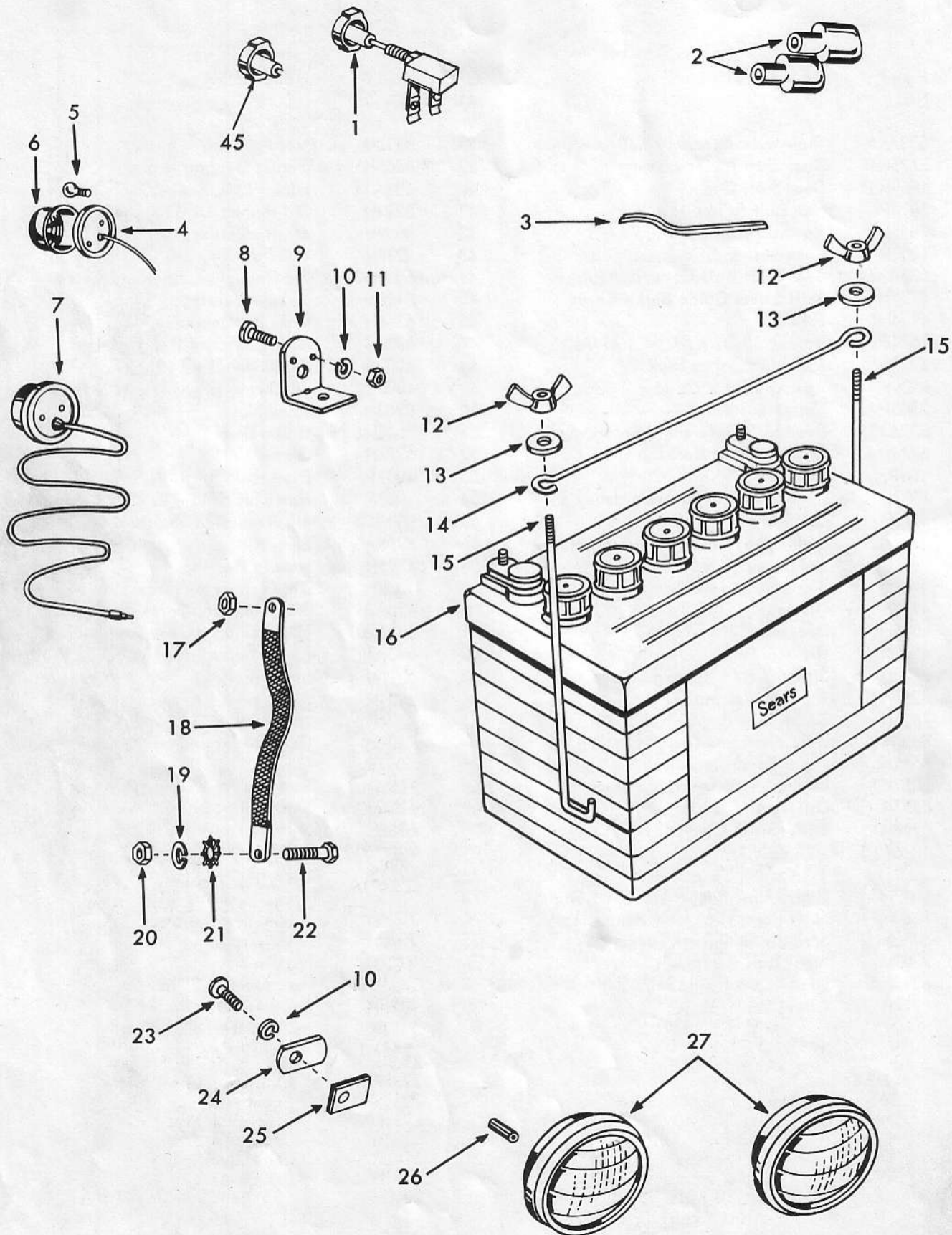
repair parts

CUSTOM 10XL TRACTOR MODEL NUMBER 917.25061

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	633A45	Transaxle Assembly W/Brake Drum	38	8118M	Needle Bearing
2	8735H1	Gear Shift Lever - Bent	39	6266H	Thrust Bearing Race
3	4869H1	Gear Shift Cap	40	633A14	High - Low Range Gears and Hub
4	3010P	Hex Bolt 5/16 - 18 x 3/4	41	6221H	3rd Reduction Gear Shaft
4A	7835M	Woodruff Key 1/8 x 1/2	42	8659H	4th Reduction Pinion
5	1003P	Lockwasher 5/16	43	2228M	Woodruff Key 3/16 x 3/4 H.T.
6	633A39A	Gear Shift Ball Cover and Pin	44	633A32	3rd Reduction Shaft and Gear
7	8739H1	Shift Lever Guide Ball - Keyed	45	8119M	Needle Bearing
8	4924H	Spring	46	6275H	Gasket - Gearcase
9	1544P	Washer 15/32 x 59/64 x 16 Ga.	47	633A41	Gear Case and Bearings-L.H.
10	6273H	Shift Mechanism Seal	48	4002P	Pipe Plug 1/2 - 14 N.P.T.
11	1525P	Washer 9/16 x 15/16 x 11 Ga.	49	4003P	90° Street Elbow 1/2 - 14 N.P.T.
12	2505P	Cotter 1/8 x 3/4	50	9204H	Lock Nut
13	633A19	Gear Shift Gate and Reinforcement	51	7648H1	Brake Drum
14	6274H	Gasket - Shift Ball Cover	52	6271H	Oil Seal
15	504P	Hex Nut 5/16 - 18	53	4001P	Pipe Plug 1/4 - 18 N.P.T.
16	1007P	Lockwasher 5/16 Extra Heavy	54	3087P	Hex Bolt 5/16 - 18 x 1 1/2 Grade 5 H.T.
17	6270H	Oil Seal	55	633A33	4th Reduction Shaft and Gears
18	633A42A	Gear Case, Reverse Idler Shaft and Bearings R.H.	56	6276H	Snap Ring
19	992R1	Sintered Iron Bearing	58	4895H	Needle Bearing
20	4910H	Oil Seal	59	1370H	Thrust Bearing Race
21	5855H	Pressure Relief Valve	60	633A31	2nd Reduction Shaft and Gears
22	6269H	Oil Seal	61	633A30	Speed Change Gears and Shaft
23	8740H1	Sintered Iron Bearing	62	633A11	Intermediate and High Speed Pinions
24	6256H	Axle Thrust Washer	63	6218H	Input Shaft
25	7810H	Centerlock Gripco Nut 3/8 - 24	64	6231H	Low Speed Pinion
26	633A43	Axle Shaft and Gear - Custom	65	4894H	Needle Bearing
27	8662H	Final Drive Gear.	66	7392H	Reverse Idler Thrust Washer
28	6252H1	Bushing - Differential Pinion	67	5001P	E Ring
29	8657H	Differential Pinion	68	1153R	Reverse Idler Gear
30	6263H1	Differential Carrier	69	6216H	Shift Fork Shaft
31	103672	Hex Bolt 3/8 - 24 x 3/4 1" Thread Length	70	6262H	Shift Fork - R.H.
32	6217H	High - Low Range Shift Fork Shaft	71	4926H	Snap Ring - Crescent Type
33	6260H	Shift Fork, High Low Range	72	6261H	Shift Fork - L.H.
34	6272H	Spring - Shaft Fork Detent	73	7395H	Thrust Bearing Race
35	7392M	Steel Ball	74	7396H	Thrust Bearing Race
36	6215H	High - Low Range Shift Shaft	75	7398H	Needle Bearing
37	6277H	Dowel Pin	76	8117M	Needle Bearing
			77	541P	Hex Jam Nut 7/16 - 20
			79	7384H	Reverse Idler Shaft
			80	1167R	Sealing Washer
			81	9858M1	Woodruff Key

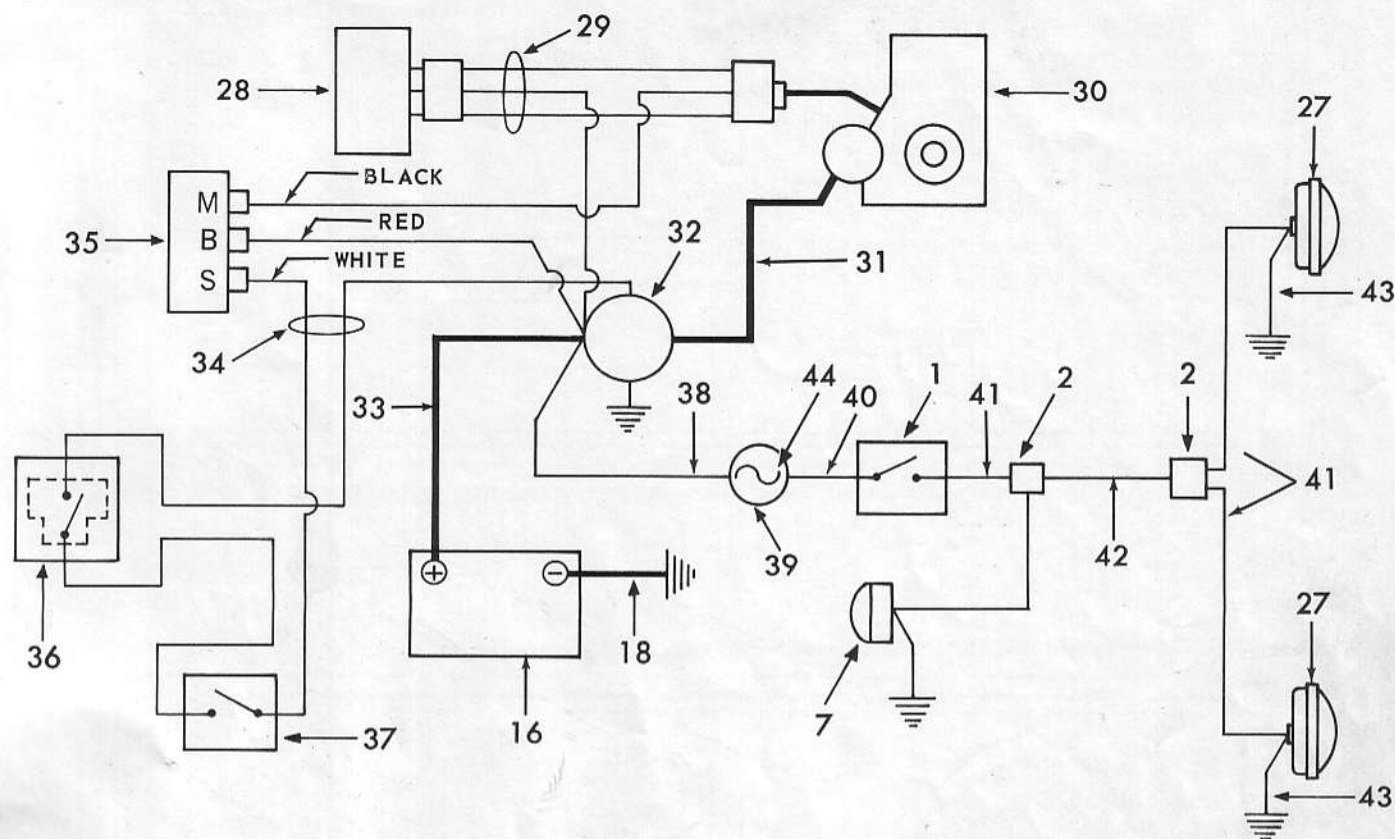
repair parts

CUSTOM 10XL TRACTOR MODEL NUMBER 917.25061



repair parts

CUSTOM 10XL TRACTOR MODEL NUMBER 917.25061



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	5735H	Light Switch	24	8768H	Mounting Clip
2	5740H	Wire Connector	25	8784H1	Rubber Spacer
3	6541H	Tie	26	9197H	Hose
4	8293H	Housing-Tail Light	27	7034H	Head Light
5	8291H	Bulb-Tail Light	28	672R	Rectifier
6	8292H	Lens-Tail Light	29	2238R	Electrical Wire
7	8169H1	Tail Light	30	626A316	Engine 10H.P. Model No. 143.629022 See Price List 932.00 For Ordering Instructions
8	3073P	Slotted Truss Hd. Mach. Screw #10-24 x 1/2	31	2235R	Battery Cable
9	8143H	Tail Light Bracket	32	103R	Solenoid
10	1006P	Lockwasher #10	33	626A344	Cable and Cover
11	505P	Hex Nut #10-24	34	2590R	Electrical Wire
12	3748M	Wing Nut	35	2210R	Starter Switch
13	1509P	Washer 5/16 x 3/4 x 16 Ga.	36	2256R	Implement Safety Switch
14	5110H	Battery Clamp	37	2565R	Switch, Safety Start
15	5072H	Battery Bolt	38	2237R	Electrical Wire
16	5111H3	Battery	39	2211R	Fuse Holder
17	503P	Hex Nut 1/4-20	40	2234R	Electrical Wire
18	5114H	Ground Strap	41	6136H	Lead Wire
19	1007P	Lockwasher 5/16	42	6144H	Lead Wire
20	504P	Hex Nut 5/16-18	43	7035H	Ground Wire
21	1402P	Lockwasher-External	44	2212R	Fuse for Fuse Holder-Not Illustrated
22	3159P	Hex Bolt 5/16-18 x 7/8	45	9267H	Black Knob (for light switch)
23	5501P	Phillips Pan Hd. Mach. Screw #10-24 x 3/8 Type T			

Sears

SEARS TRACTOR GUARANTEE

ISSUED TO

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

REMEMBER...

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.

Sears

owners manual

CUSTOM 10XL TRACTOR

**MODEL NO.
917.25061**

**SEARS SERVICE
IS AT YOUR SERVICE
WHEREVER YOU LIVE
OR MOVE
IN THE U.S.A.**

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 SIMPSON-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.

- | | |
|-------------------------|----------------------------------|
| 1. The PART NUMBER | 3. The MODEL NUMBER
917.25061 |
| 2. The PART DESCRIPTION | 4. The NAME OF ITEM—
Tractor |

When you buy merchandise from Sears you get an extra something that nobody else can offer . . . Sears Service.



Across town or across the country, wherever you live or move in the U.S.A., Sears Service follows you, providing trustworthy, competent service technicians using only Sears specified factory parts.

SEARS, ROEBUCK AND CO. U.S.A.

SIMPSON-SEARS LIMITED, CANADA