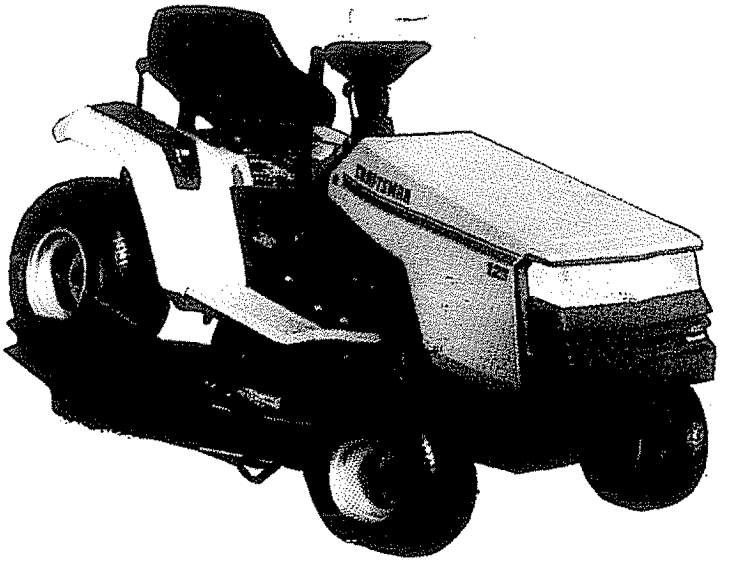
SEARS

OWNER'S MANUAL

MODEL NO. 917.257281

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



# CRAFTSMAN®

## 12.0 HP IC ELECTRIC START 38" MOWER DECK 5 SPEED TRANSAXLE LAWN TRACTOR

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustment
- Repair Parts

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

# SAFETY RULES

## Safe Operation Practices for Ride-On Mowers

**IMPORTANT:** THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

### I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

### II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

**DO:**

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. *Tall grass can hide obstacles.*
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes *slow* and *gradual*. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.

**DO NOT:**

- *Do not* turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- *Do not* mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- *Do not* mow on wet grass. Reduced traction could cause sliding.
- *Do not* try to stabilize the machine by putting your foot on the ground.
- *Do not* use grass catcher on steep slopes.

### III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

### IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.

**Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.**

**CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.**

**CONGRATULATIONS** on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Service Center/Department. We have competent, well-trained technicians and the proper tools to service or repair this unit.

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

MODEL NUMBER 917.257281

SERIAL NUMBER _____

DATE OF PURCHASE _____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT.

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

## MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

## CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your unit.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

## PRODUCT SPECIFICATIONS

| | |
|---|---|
| HORSEPOWER: | 12.0 |
| GASOLINE CAPACITY: | 5 QUARTS<br>UNLEADED REGULAR |
| OIL (3.0 PINTS): | SAE 30 (above 32°F)<br>5W30 (below 32°F) |
| SPARK PLUG (GAP.030 IN.): | CHAMPION RJ-19LM<br>STD361458 |
| VALVE CLEARANCE: | INTAKE .005 - .007 IN.<br>EXHAUST .009 - .011 IN. |
| GROUND SPEED: | FORWARD<br>1st 1.10 MPH<br>2nd 2.00 MPH<br>3rd 3.00 MPH<br>4th 4.00 MPH<br>5th 5.00 MPH<br>REVERSE: 1.50 MPH |
| TIRE PRESSURE: | FRONT: 14 PSI<br>REAR: 10 PSI |
| CHARGING SYSTEM: | 3 AMPS BATTERY<br>5 AMPS HEADLIGHTS |
| BLADE BOLT TORQUE: | 30-35 FT. LBS. |

**WARNING:** This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center (See REPAIR PARTS section of this manual).

## LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For two (2) years from the date of purchase, if this riding equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners and belts.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Riding equipment used for commercial or rental purposes.

## LIMITED 90 DAY WARRANTY ON BATTERY

For 90 days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE RIDING EQUIPMENT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

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

SEARS, ROEBUCK AND CO., D/731CR-W, SEARS TOWER, CHICAGO, ILLINOIS 60684

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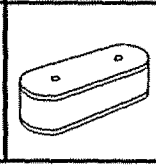
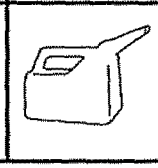
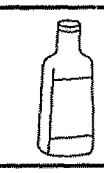
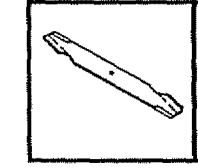
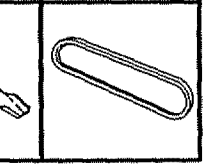
# ACCESSORIES AND ATTACHMENTS

These accessories and attachments were available when the unit was purchased. They are also available at most Sears retail outlets, catalog and service centers. Most Sears stores can order these items for you when you provide the model number of your tractor.

## ENGINE

| SPARK PLUG | MUFFLER | AIR FILTER | GAS CAN | ENGINE OIL | STABILIZER |
|---|---|---|---|---|---|
|  |  |  |  |  |  |

## MAINTENANCE

| BLADES | BELTS |
|---|---|
|  |  |

## PERFORMANCE

Sears offers a wide variety of attachments that fit your vehicle. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication; however, it may change in future years - more attachments may be added, changes may be made in these attachments, or some may no longer be available or fit your model. **Contact your nearest Sears store for the accessories and attachments that are available for your unit.**

Most of these attachments do not require additional hitches or conversion kits (those that do are indicated) and are designed for easy attaching and detaching.

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

**LAWN SWEEPERS** let you collect grass clippings and leaves.

**LAWN VACS** for powerful collection of heavy grass clippings and leaves. Wand attachment to pick up debris in hard-to-reach places.

**CARTS** make hauling easy. Variety of sizes available.

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

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

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

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

**MULCH RAKE/DETHATCHER** loosens soil and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring tine teeth. Useful to prepare bare areas for seeding. Available for front or rear mounting.

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

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

**SNOWTHROWER** has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains, wheel weights, or rear drawbar weight.)

**TIRE CHAINS** are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction.

**WHEEL WEIGHTS** for rear wheels provide needed traction for snow removal or dozing heavy materials. In pairs. (30 lbs. each.)

**TRACTOR CAB** has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl and windshields for use as sun protector in summer. (Catalog only.)

**Optional accessories for tractor cab:** tinted/tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top. (Catalog only.)

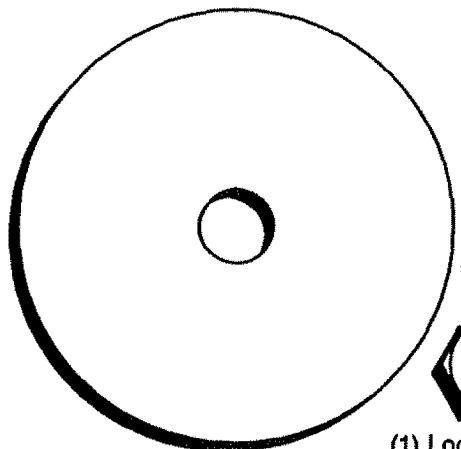
**TRACTOR COVER** protects tractor from weather. Made of Evolution 3 fabric (water-repellent, extremely breathable, light weight, soft, non-abrasive, pliable in all temperatures, durable, stain/tear/puncture resistant, will not shrink or stretch.) (Catalog only.)

**TILLER** cultivates and prepares soil in one operation. Uses PTO from tractor; 12 counter-rotating blades. Breaks ground with upper-cut action, then deflects and retills it into a soft, aerated soil. Chain-drive transmission. Tills 21-inch path, 6-inches deep. (Use chains and wheel weights.)

**TILLER** has 5 hp engine and 36-inch swath to prepare seed beds, cultivate, and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard, or garden tractor. Simply hook up to the tractor drawbar and go!

# CONTENTS OF HARDWARE PACK

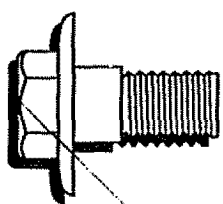
## Parts Bag contents shown full size



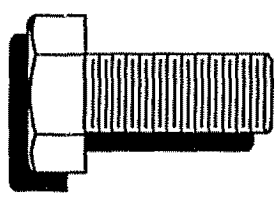
(1) 2-3/8" Dia. Washer

(2) Sheet Metal Screws #10-16 x 1/2

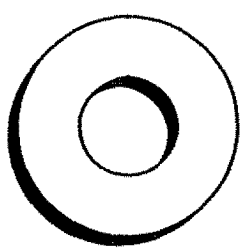
(1) Locknut 3/8-24



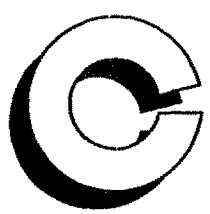
(1) Shoulder Bolt 5/16-18



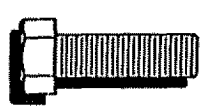
(1) Hex Bolt 1/2-13 x 1



(1) Washer 17/32 x 1-3/16 x 12 Gauge



(1) Lock Washer 1/2



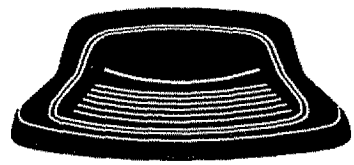
(2) Hex Bolts 1/4-20 x 3/4

(2) Hex Nuts 1/4-20

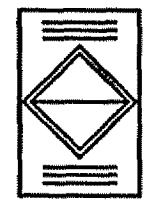
(2) Washers 9/32 x 5/8 x 16 Gauge

(2) Lock Washers 1/4

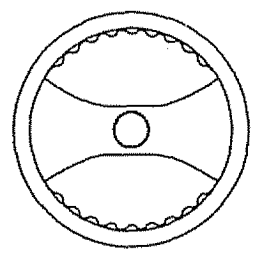
## Parts packed separately in carton



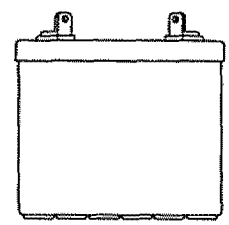
Seat



Battery acid

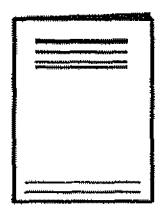


Steering Wheel

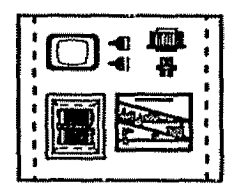


Battery

Steering Tube

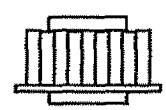


Owner's Manual

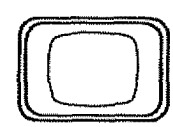


Parts Bag

## Parts bag contents not shown full size

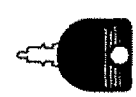


Steering Wheel Adapter

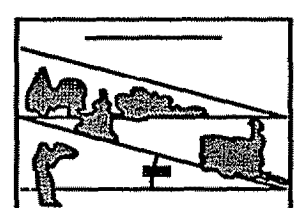


Steering Wheel Insert

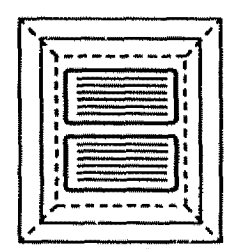
Steering Bushing



(2) Keys



15° Slope Sheet



Battery Caps and Instructions

# ASSEMBLY

Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure their proper tightness.

## TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

(1) 5/16" wrench
(2) 7/16" wrenches
(1) 1/2" wrench
(1) 9/16" wrench
(1) 3/4" wrench
Screwdriver
Tire pressure gauge
Utility knife

When right and left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

## TO REMOVE UNIT FROM CARTON

### UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton (See page 6).
- Cut along dotted lines on carton, from top to bottom, all four corners of carton and lay panels flat.
- Check for any additional loose parts or cartons and remove.

## BEFORE ROLLING UNIT OFF SKID

### ATTACH STEERING WHEEL (See Fig. 1)

- Slide the steering bushing over the steering shaft.
- Raise steering shaft forward until screw holes in dash line up with steering bushing. Install two (2) sheet metal screws and tighten securely.
- Position steering boot over steering shaft.
- Place tabs of steering boot over slots in dash and push down to secure.
- Slide steering wheel adapter onto upper steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Assemble large flat washer and 3/8-24 hex locknut and tighten securely.
- Snap insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.

**IMPORTANT:** CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE UNIT IS TO ROLL OFF SKID.

### (See Fig. 6)

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in "NEUTRAL" position.
- Roll unit backwards off skid.
- Remove banding holding discharge guard up against tractor.

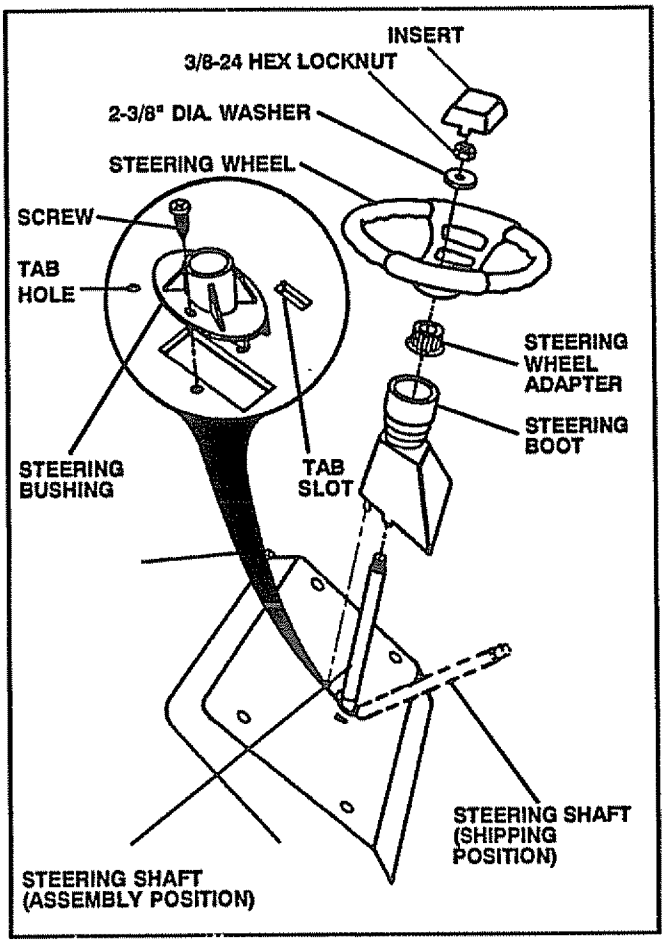



FIG. 1

# ASSEMBLY

## HOW TO SET UP YOUR TRACTOR

### PREPARE BATTERY (See Fig. 2)

**CAUTION: Wear eye and face shield.**

**Wash hands or clothing immediately if accidentally in contact with battery acid.**

**Do not smoke. Fumes from charged battery acid are explosive.**

**Read the instructions included with the battery vent caps. Always wear gloves, clothing and goggles to protect your hands, skin and eyes.**

Your unit has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- See instructions packed with vent caps in parts bag.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- Allow battery to stand and settle for at least thirty minutes. After standing, check the level of acid. If below the vent wells, add more acid until the correct level is reached.

While battery is standing (after adding acid) and later, while battery is being charged, continue with assembly of unit.

**IMPORTANT:** TO MAXIMIZE THE LIFE OF YOUR BATTERY, IT IS NECESSARY THAT THE BATTERY BE CHARGED BEFORE USE. FAILURE TO CHARGE BATTERY CAN RESULT IN A SHORTENED BATTERY LIFE.

- Charge battery at a rate of 6 amperes for 1 hour. Use a 12 volt battery charger. Observe all safety precautions required for battery charging.
- Check the acid level after the battery is charged. If the acid has fallen below the correct level, add distilled or iron free water.
- Install the vent caps to cover the vent wells. Wash the top of the battery with water to remove any acid, then wipe dry.
- Check battery case for leakage to make sure that no damage has occurred in handling.
- Dispose of excess battery acid. Neutralize acid for disposal by adding it to four inches of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
- Follow instructions on how to install battery.

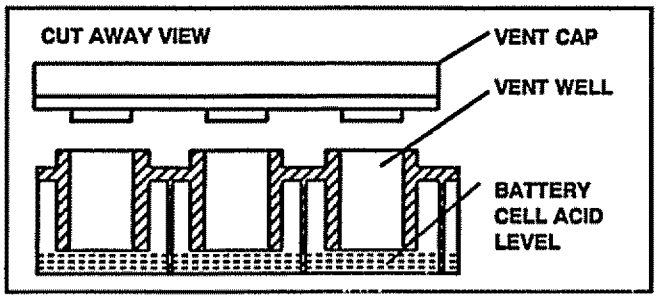



FIG. 2

### INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment bolt.

- Remove cardboard packing on seat pan.
- Place seat on pan and assemble shoulder bolt.
- Assemble adjustment bolt, lock washer and flat washer loosely. Do not tighten.
- Tighten shoulder bolt securely.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down (See Fig. 6).
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment bolt securely.

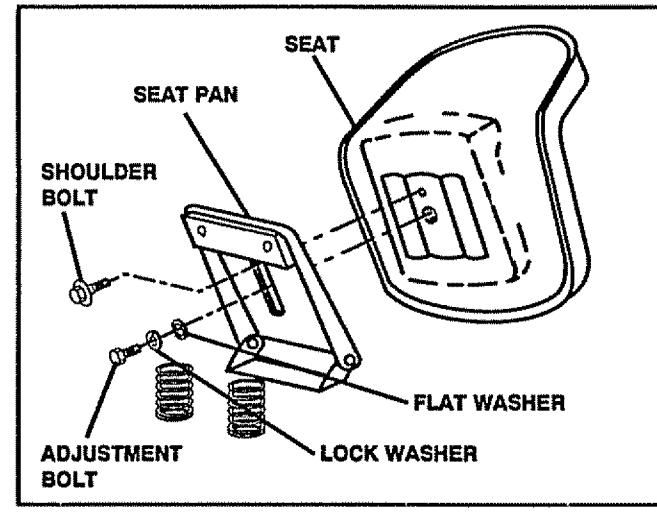



FIG. 3

### CHECK TIRE PRESSURE

The tires on your unit were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

- Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

### CHECK DECK LEVELNESS

For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

### CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

### CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

# ASSEMBLY

## INSTALL BATTERY (See Figs. 4 & 5)

**CAUTION: Do not short battery terminals. Before installing battery, remove metal bracelets, wristwatch bands, rings, etc.**

**Positive terminal must be connected first to prevent sparking from accidental grounding.**

- Lift seat to raised position.
- Open battery box door.
- Lower battery into battery box with battery terminals toward front of unit.
- Be sure battery drain tube is attached to battery box.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Close battery box door.

Open battery box door for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging.

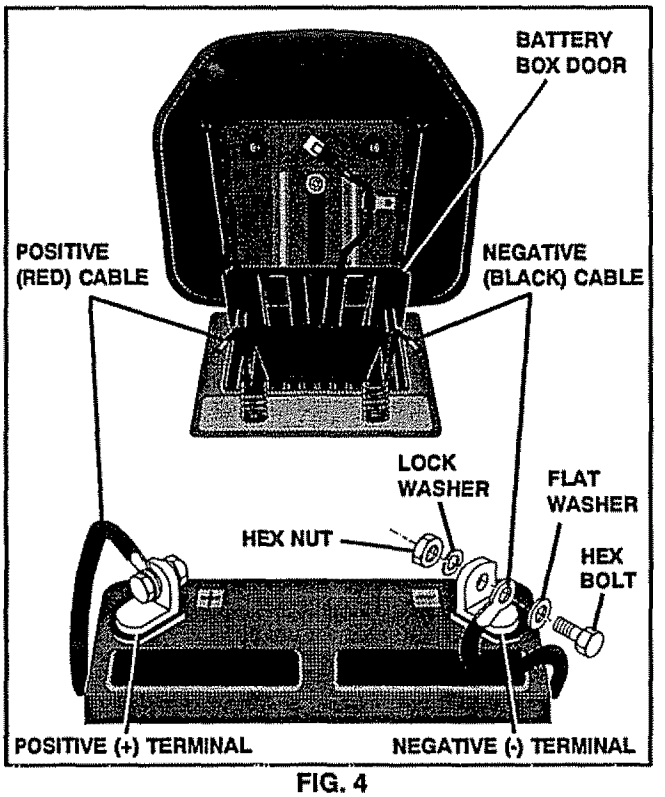



FIG. 4

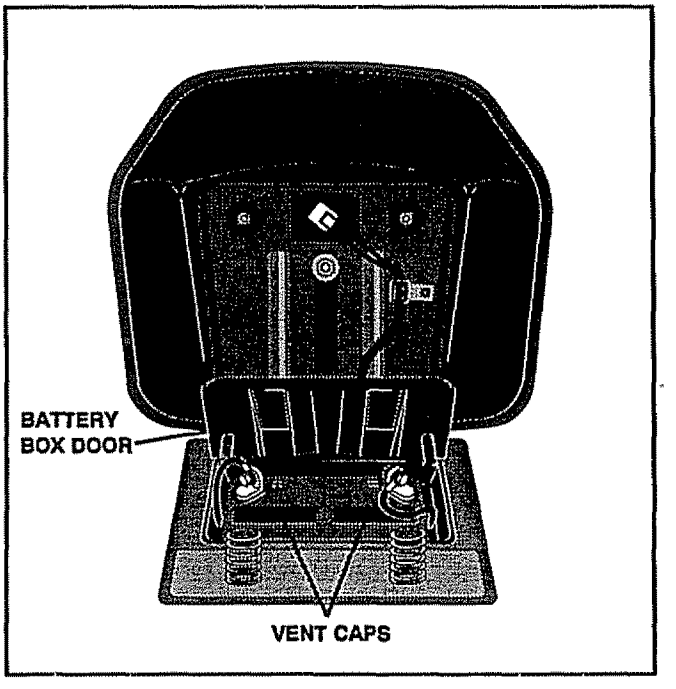



FIG. 5

## ✓CHECKLIST

*BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.*

*PLEASE REVIEW THE FOLLOWING CHECKLIST:*

- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were over-inflated at the factory).
- ✓ Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.

*WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:*

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls - their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.

# OPERATION

## KNOW YOUR TRACTOR

### READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR

Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.

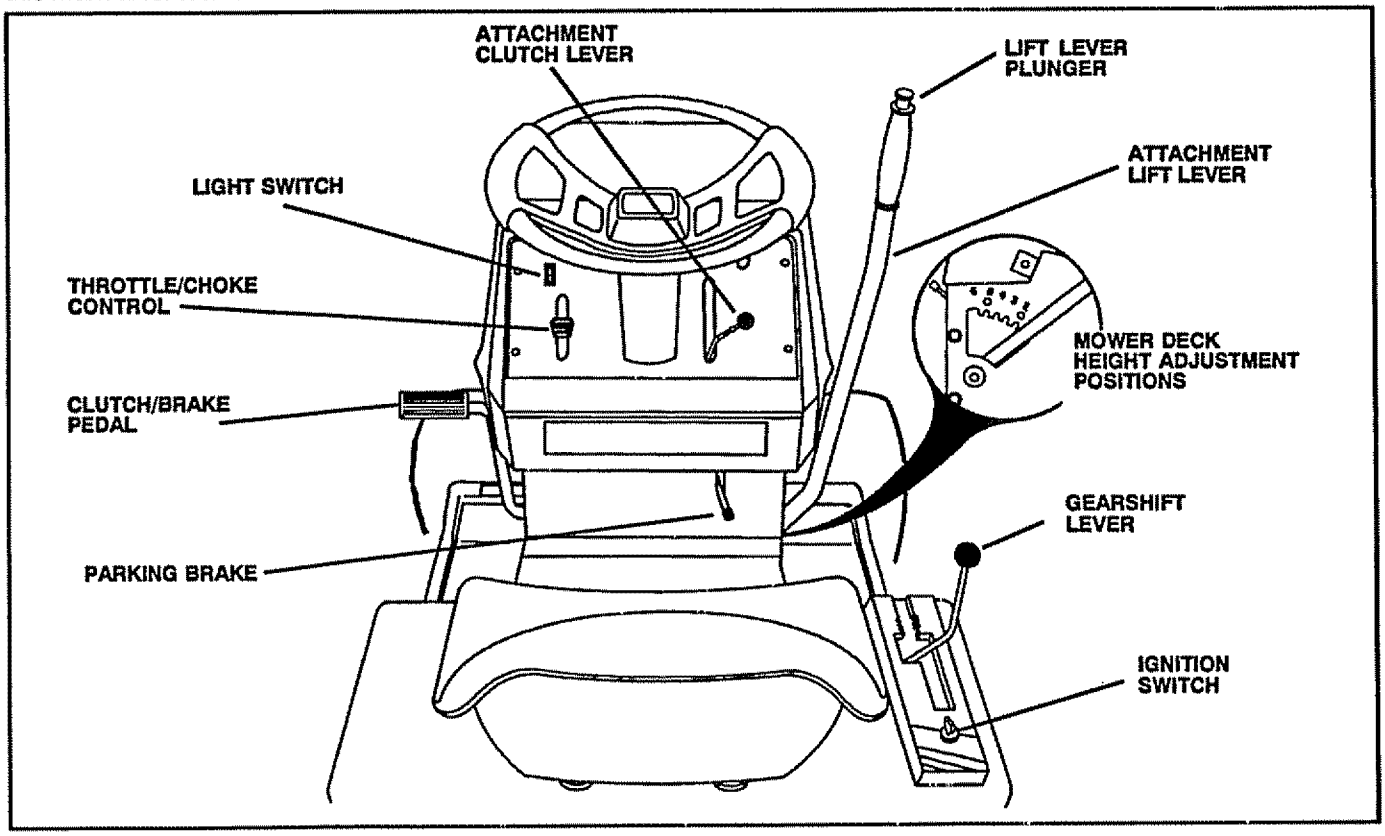



FIG. 6

Sears tractors conform to the safety standards of the American National Standards Institute.

**ATTACHMENT CLUTCH LEVER:** Used to engage the mower blades, or other attachments mounted to your tractor.

**LIGHT SWITCH:** Turns the headlights on and off.

**THROTTLE/CHOKE CONTROL:** Used for starting and controlling engine speed.

**CLUTCH/BRAKE PEDAL:** Used for declutching and braking the tractor and starting the engine.

**PARKING BRAKE:** Locks clutch/brake pedal into the brake position.

**GEARSHIFT LEVER:** Selects the speed and direction of tractor.

**ATTACHMENT LIFT LEVER:** Used to raise, lower, and adjust the mower deck or other attachments mounted to your tractor.

**LIFT LEVER PLUNGER:** Used to release attachment lift lever when changing its position.

**IGNITION SWITCH:** Used for starting and stopping the engine.

# OPERATION


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend wide vision safety mask for over the spectacles or standard safety glasses, available at Sears Retail or Catalog stores.

## HOW TO USE YOUR TRACTOR

### TO SET PARKING BRAKE (See Fig. 7)

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold vehicle secure.

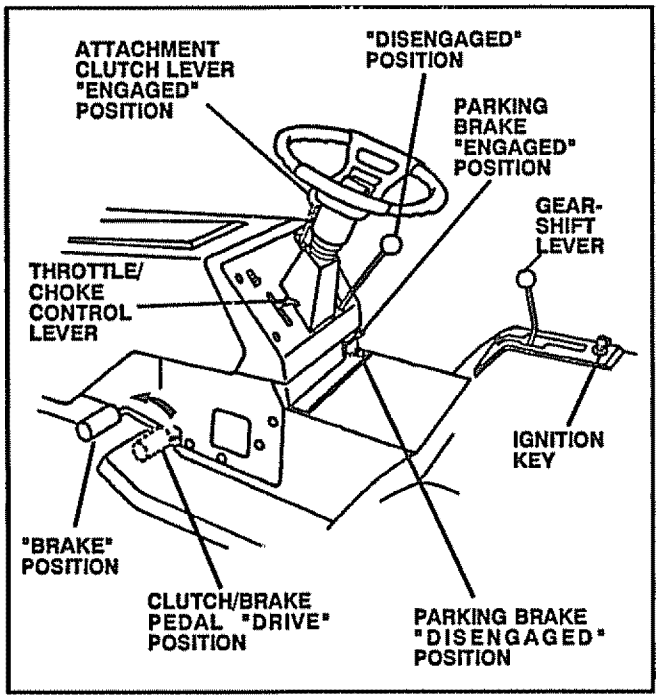



FIG. 7

### STOPPING (See Fig. 7)

MOWER BLADES -

- Move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to "NEUTRAL" position.

ENGINE -

- Move throttle control to "SLOW" position.

**NOTE:** Failure to move throttle control to "SLOW" position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving vehicle to prevent unauthorized use.
- Never use choke to stop engine.

**NOTE:** Under certain conditions when unit is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping unit on grass areas.

**CAUTION: Always stop unit completely, as described above, before leaving the operator's position; to empty grass catcher, etc.**

### TO USE THROTTLE CONTROL (See Fig. 7)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

### TO MOVE FORWARD AND BACKWARD (See Fig. 6)

The direction and speed of movement is controlled by the gearshift lever.

- Start tractor with clutch/brake pedal depressed and gearshift lever in "NEUTRAL" position.
- Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.

**IMPORTANT:** BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

### TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

The position of the attachment lift lever determines the cutting height.

- Grasp lift lever.
- Press plunger with thumb and move lever to desired position.

The cutting height range is approximately 1-1/2 to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- The average lawn should be cut approximately 2-1/2 inches during the cool season and over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

# OPERATION

## TO OPERATE MOWER (See Fig. 8)

Your unit is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine.

- Select desired height of cut.
- Engage mower by slowly moving attachment clutch lever to "ENGAGED" position.
- TO STOP MOWER - Move attachment clutch lever to "DISENGAGED" position.

**CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the discharge guard in place.**

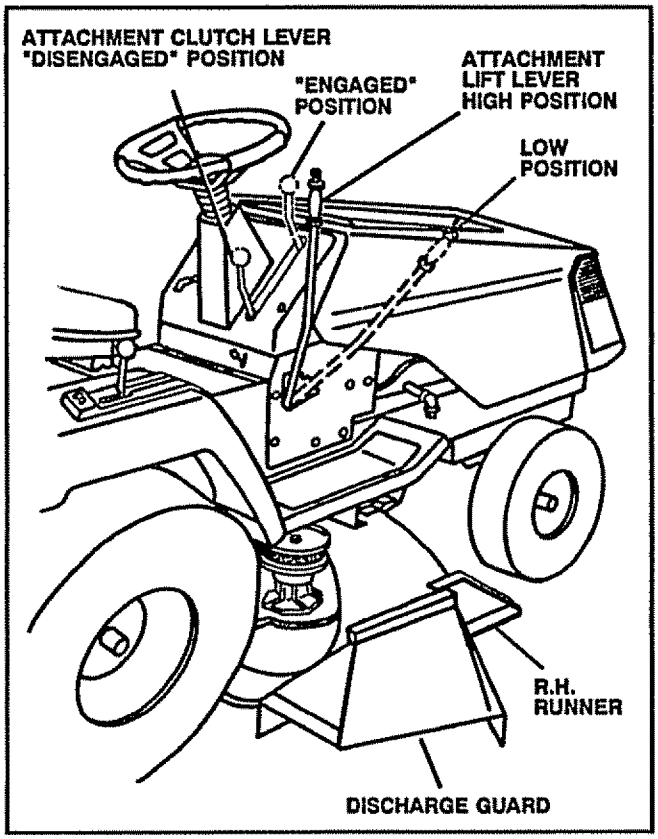



FIG. 8

## TO OPERATE ON HILLS

**CAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.**

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear and be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

## TO TRANSPORT

- Raise attachment lift control to highest position.
- When pushing or towing your unit, be sure gearshift lever is in "NEUTRAL" position.
- Do not push or tow unit at more than five (5) MPH.

# BEFORE STARTING THE ENGINE

## CHECK ENGINE OIL LEVEL (See Fig. 13)

- The engine in your unit has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with unit on level ground.
- Remove oil fill dipstick and wipe clean, replace and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (see "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

## ADD GASOLINE

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

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

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

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

# OPERATION

## TO START ENGINE (See Fig. 7)

When starting engine for the first time or if engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Depress the clutch/brake pedal and set the parking brake.
- Place gearshift lever in "NEUTRAL" position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control lever to "CHOKE" position for cold engine start. For warm engine start, move throttle control to "FAST" position.
- Turn ignition key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If engine does not start after several attempts, move throttle control to "FAST" position, wait a few minutes and try again.
- When engine starts, move throttle control to desired position.
- Allow engine to warm up for a few minutes before engaging drive or attachment clutch.

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

## MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to unit.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 8).
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 9).

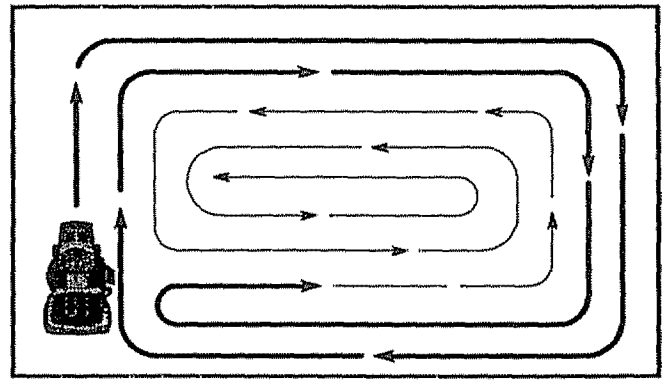


FIG. 9

- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

# CUSTOMER RESPONSIBILITIES

| MAINTENANCE SCHEDULE<br>FILL IN DATES<br>AS YOU COMPLETE<br>REGULAR SERVICE | | BEFORE EACH USE | FIRST 2 HOURS | EVERY 8 HOURS | EVERY 25 HOURS | EVERY 50 HOURS | EVERY 100 HOURS | EVERY SEASON | BEFORE STORAGE | SERVICE DATES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TRACTOR | Check Brake Operation | ✔ | | ✔ | | | | | | | | | | |
| | Check Tire Pressure | ✔ | | ✔ | | | | | | | | | | |
| | Check for Loose Fasteners | ✔ | | | | | | ✔ | | | | | | |
| | Sharpen/Replace Mower Blades | | | | ✔4 | | | | | | | | | |
| | Lubrication Chart | | | | ✔ | | | ✔ | | | | | | |
| | Check Battery Level/Recharge | | | | ✔ | | | | | | | | | |
| | Clean Battery and Terminals | | | | ✔ | | | ✔ | | | | | | |
| | Check Transmission Cooling | | | | ✔ | | | | | | | | | |
| | Adjust Blade Belt(s) Tension | | | | | | ✔5 | | | | | | | |
| | Adjust Motion Drive Belt(s) Tension | | | | | | ✔5 | | | | | | | |
| ENGINE | Check Engine Oil Level | ✔ | | ✔ | | | | | | | | | | |
| | Change Engine Oil | | ✔ | | ✔1,2,3 | | | | ✔ | | | | | |
| | Clean Air Filter | | | | ✔2 | | | | | | | | | |
| | Clean Air Screen | | | | ✔2 | | | | | | | | | |
| | Inspect Muffler/Spark Arrester | | | | | ✔ | | | | | | | | |
| | Replace Oil Filter (If equipped) | | | | | | ✔1,2 | | | | | | | |
| | Clean Engine Cooling Fins | | | | | | ✔2 | | | | | | | |
| | Replace Spark Plug | | | | | | ✔ | ✔ | | | | | | |
| | Replace Air Filter Paper Cartridge | | | | | | ✔2 | | | | | | | |
| | Replace Fuel Filter | | | | | | | ✔ | | | | | | |

1 - Change more often when operating under a heavy load or in high ambient temperatures.
2 - Service more often when operating in dirty or dusty conditions.
3 - If equipped with oil filter, change oil every 50 hours.
4 - Replace blades more often when mowing in sandy soil.
5 - If equipped with adjustable system.

## GENERAL RECOMMENDATIONS

The warranty on this vehicle does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain unit as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your unit.

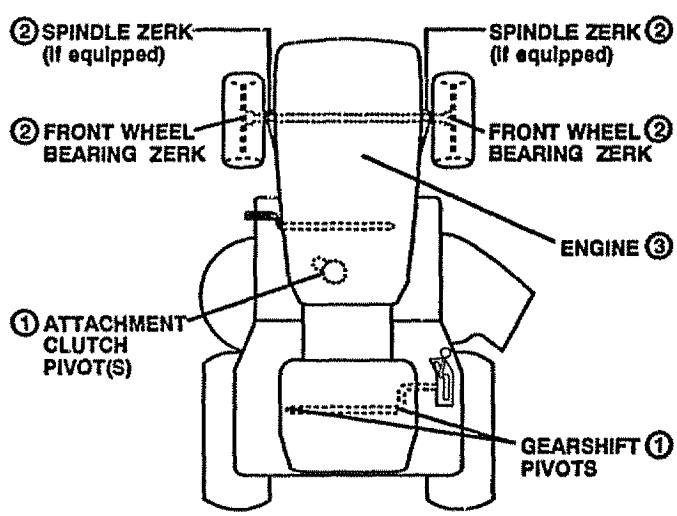
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

## BEFORE EACH USE

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check for loose fasteners.

## LUBRICATION CHART




①SAE 30 OR 10W30 MOTOR OIL API - SG
②GENERAL PURPOSE GREASE
③REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

**IMPORTANT:** DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

# CUSTOMER RESPONSIBILITIES

## TRACTOR

Always observe safety rules when performing any maintenance.

### BRAKE OPERATION

If unit requires more than six (6) feet stopping distance at high speed in highest gear, than brake must be adjusted. (See "TO ADJUST BRAKE" in Service and Adjustments section of this manual).

### TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 3 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

### BLADE CARE

For best results mower blades must be kept sharp. The blades can be sharpened with a file or on a grinding wheel. We suggest they be sharpened or replaced after every 25 hours of mowing. Check blades more often if mowing in sandy conditions.

- Do not attempt to sharpen blades while they are on the mower.
- Replace bent or damaged blades.

### BLADE REMOVAL (See Fig. 10)

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

**IMPORTANT:** BLADE BOLT IS GRADE 8 HEAT TREATED.

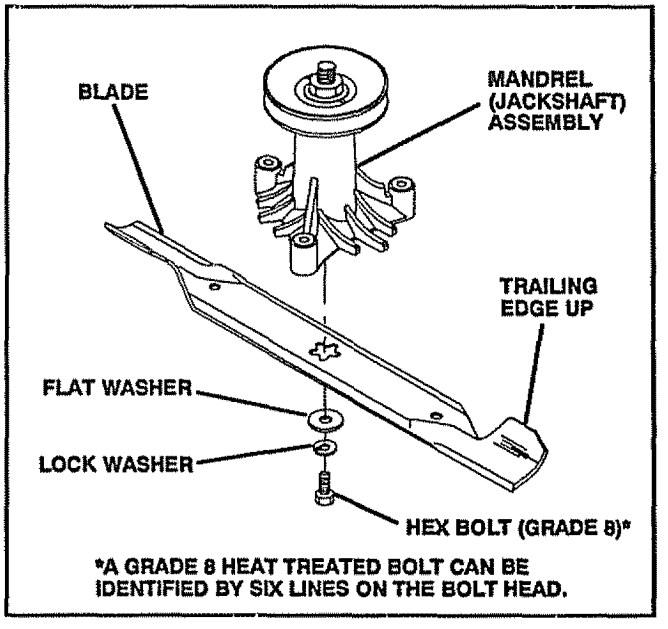



FIG. 10

### TO SHARPEN BLADE (See Fig. 11)

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer).
- Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

**NOTE:** Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

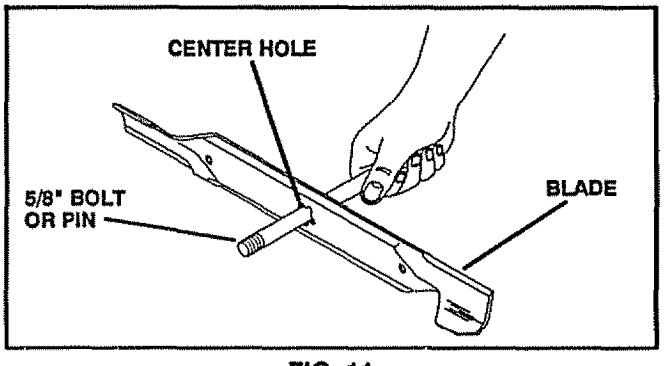



FIG. 11

# CUSTOMER RESPONSIBILITIES

## BATTERY (See Fig. 12)

Your unit has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend it's life.

- Acid solution level in each battery cell should be even with bottoms of vent wells. Add only distilled or iron free water if necessary. Do not overfill.

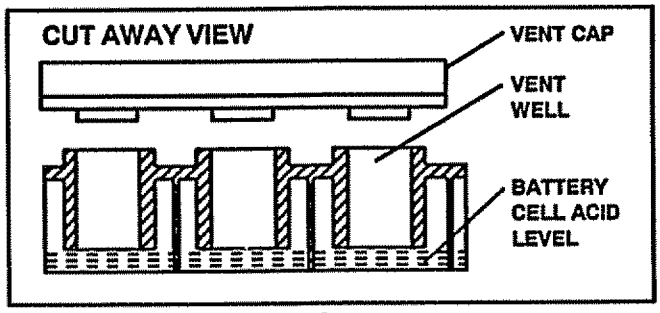



FIG. 12

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep vent caps tight and small vent holes in caps open.
- Recharge at 6 amperes for 1 hour.

TO CLEAN BATTERY AND TERMINALS -

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

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "INSTALL BATTERY" in Assembly section of this manual).

## V-BELTS

Check V-belts for deterioration and wear after 100 hours and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

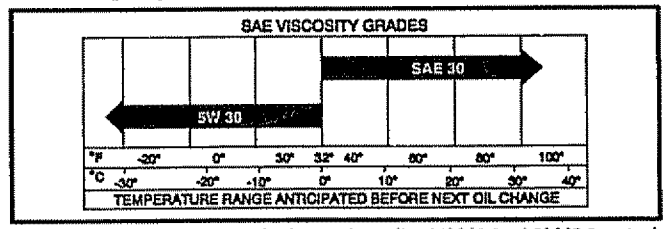
## TRANSAXLE COOLING

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

# ENGINE

## LUBRICATION

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




**NOTE:** Although multi-viscosity oils (5W30, 10W30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used aboe 32°C. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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

Check the crankcase oil level before starting the engine and after each eight (8) hours of continuous use. Tighten oil fill cap/dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Fig. 13)

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

- Be sure vehicle is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see Product Specifications on page 3 of this manual.
- Use gauge on oil fill dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

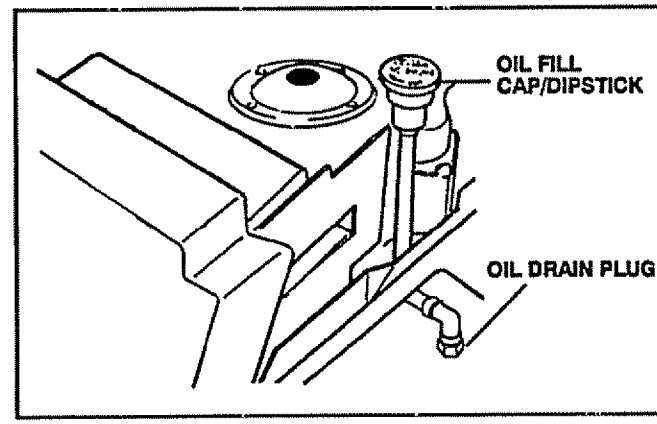



FIG. 13

# CUSTOMER RESPONSIBILITIES

## AIR FILTER FOAM PRE-CLEANER (See Fig. 14)

Your engine will not run properly and may be damaged by using a dirty air filter. Clean the foam pre-cleaner element after every 25 hours of operation, more often if used in very dusty, dirty conditions.

- Remove knob and cover.
- Remove cartridge nut and replace cartridge.
- Reassemble and tighten securely.

**NOTE:** Do not attempt to clean or oil the paper cartridge. Replace paper cartridge once a year or after every 100 hours of operation, more often if used in very dusty, dirty conditions.

- Wash foam pre-cleaner in liquid detergent and water.
- Wrap foam pre-cleaner in cloth and squeeze dry.
- Lightly coat foam pre-cleaner with clean engine oil. Squeeze in towel to remove excess oil. Do not saturate.
- Install foam pre-cleaner over paper cartridge.
- Reassemble cover and secure with knobs.

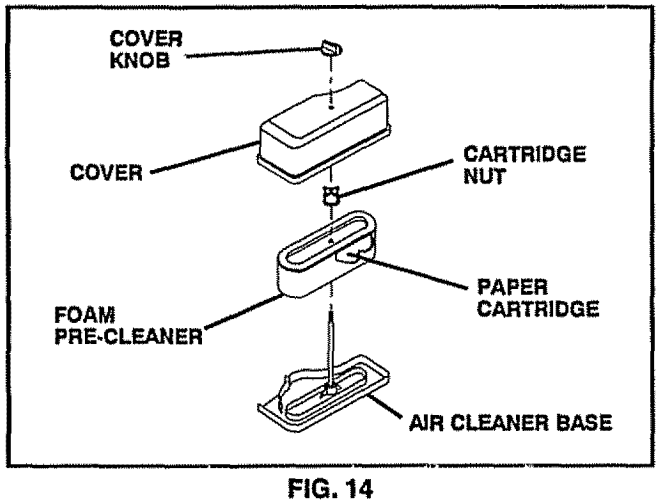



FIG. 14

## AIR SCREEN (See Fig. 15)

The engine air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

## ENGINE COOLING FINS (See Fig. 15)

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating.

- Remove oil fill dipstick and cover opening to prevent entry of dirt.
- Remove screws from blower housing and lift housing off engine.
- Remove the screws securing the starter housing and lift housing off engine.
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.
- To reassemble, reverse above procedure.

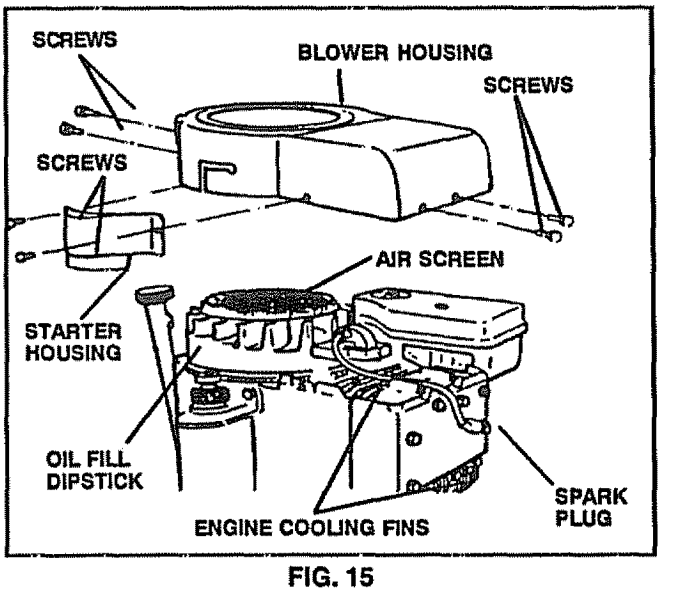



FIG. 15

## MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

## SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of use, whichever comes first. Spark plug type and gap setting is shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

## IN-LINE FUEL FILTER (See Fig. 16)

Fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

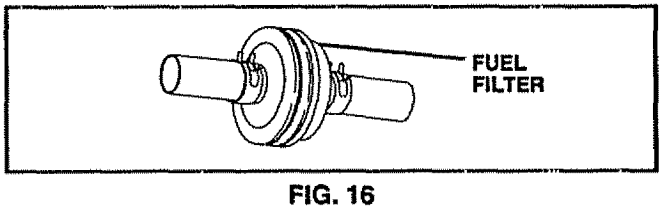



FIG. 16

## CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your unit unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

# SERVICE AND ADJUSTMENTS

**CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:**

- **Depress clutch/brake pedal fully and set parking brake.**
- **Place gearshift lever in "NEUTRAL" position.**
- **Place attachment clutch in "DISENGAGED" position.**
- **Turn ignition key "OFF" and remove key.**
- **Make sure the blades and all moving parts have completely stopped.**
- **Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.**

## TRACTOR

### TO REMOVE MOWER (See Fig. 17)

Mower will be easier to remove from the right side of unit.

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

**IMPORTANT:** IF AN ATTACHMENT OTHER THAN THE MOWER IS TO BE MOUNTED TO THE TRACTOR, THE R.H. AND L.H. SUSPENSION ARMS MUST BE REMOVED FROM TRACTOR.

### TO INSTALL MOWER (See Fig. 17)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.

**NOTE:** The mower clutch rod has a trunnion that has been preset, at the factory, for optimum mower performance. DO NOT MOVE THE TRUNNION ON THE CLUTCH ROD. If for any reason the trunnion has been moved on the clutch rod, it must be reset to correct position (parallel with clutch rod) and measure 10-11/32" (Check dimension on edge of flat work surface as shown).

Be sure to tighten trunnion nut securely against trunnion after making any adjustments.

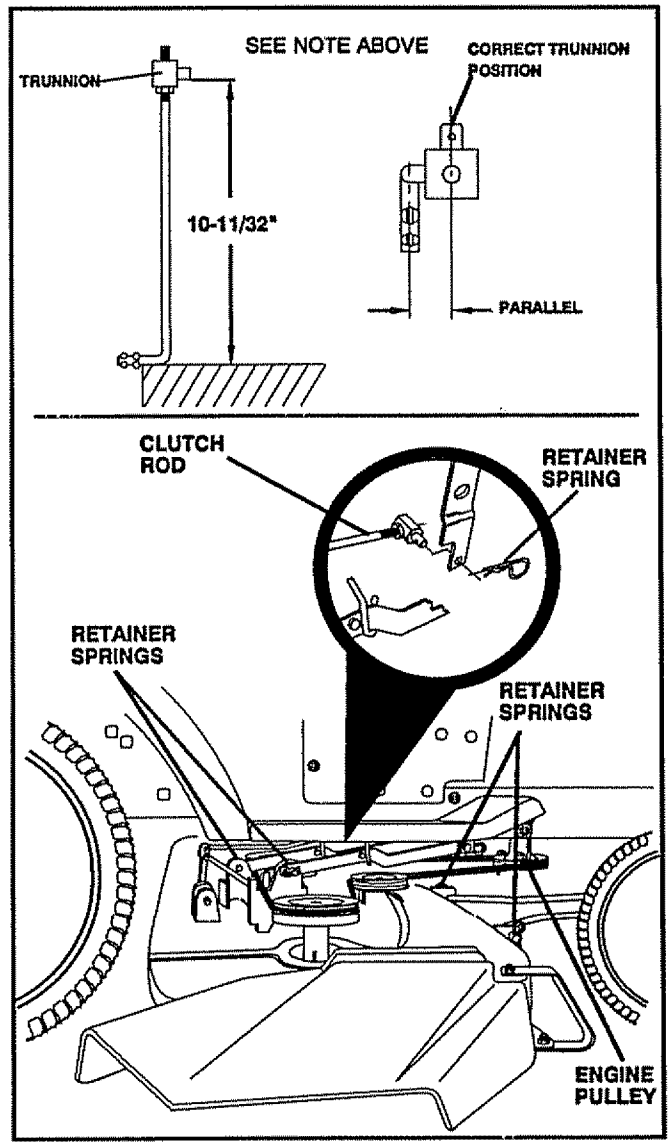



FIG. 17

# SERVICE AND ADJUSTMENTS

## TO LEVEL MOWER HOUSING

Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" on page 3). If tires are over or under inflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 18 and 19) -

You will need two (2) standard 2 x 4 short pieces of wood to make the following adjustment. Similar blocks measuring 1-1/2" thick may also be used.

- Raise mower with attachment lift control to allow two (2) 1-1/2" thick blocks to be placed under rear edge of mower directly behind mandrels.
- Lower mower deck to its lowest height of cut position (See "TO ADJUST MOWER CUTTING HEIGHT" in Operation section of this manual).
- On both sides of tractor, loosen, but do not remove, the fasteners securing the adjustable pivot brackets to frame. Both brackets must be loose enough to move freely.
- Pull down firmly on suspension arm to remove any slack in pivot bracket and hold while tightening rear fastener first to secure. Tighten remaining fasteners.
- Repeat procedure on other side of tractor.
- Raise mower with attachment lift control and remove blocks from under mower.

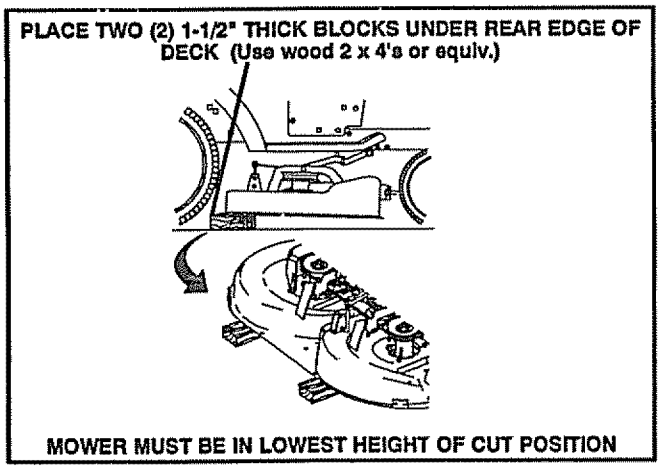



FIG. 18

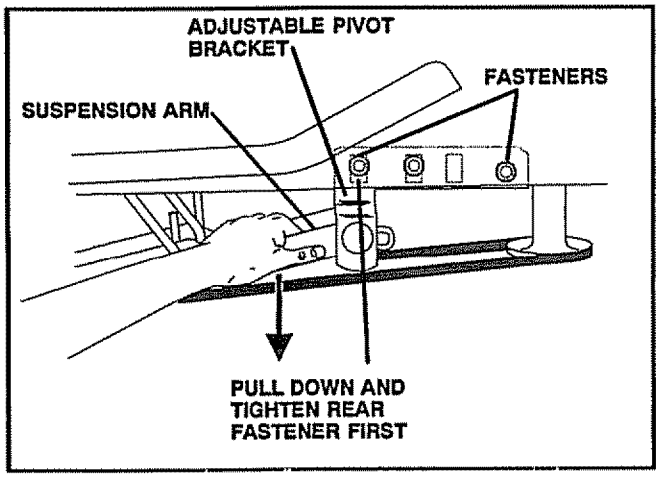



FIG. 19

FRONT-TO-BACK ADJUSTMENT (See Figs. 20 and 21) -

**IMPORTANT:** DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/4" to 3/4" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.

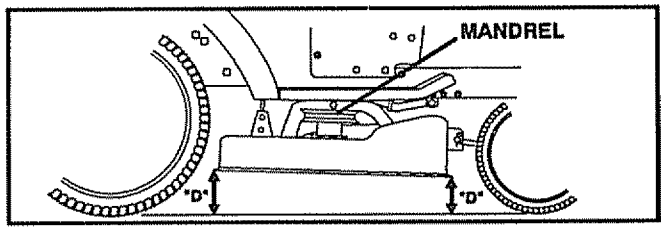



FIG. 20

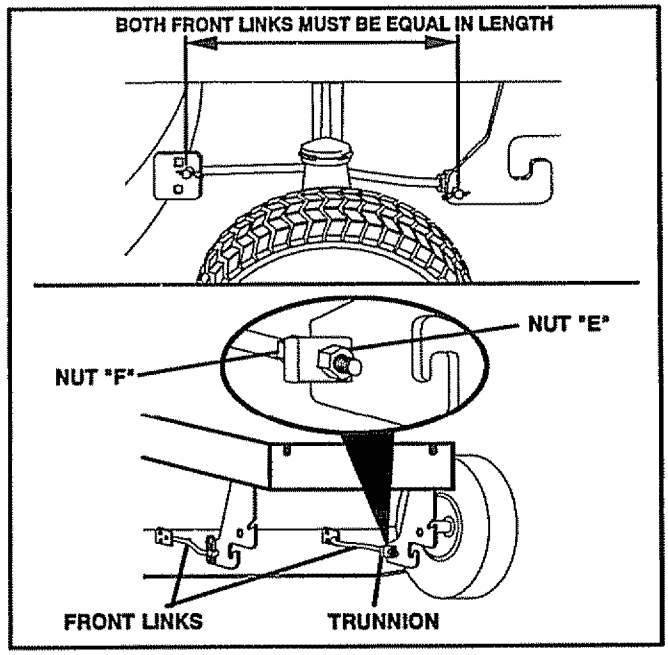



FIG. 21

# SERVICE AND ADJUSTMENTS

## TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 22)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on the mower housing.

BELT REMOVAL -

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect R.H. suspension arm from rear deck bracket by removing retainer spring.
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

BELT INSTALLATION -

- Install new belt in reverse order of removal.
- Make sure belt is in all pulley grooves and inside all belt guides.

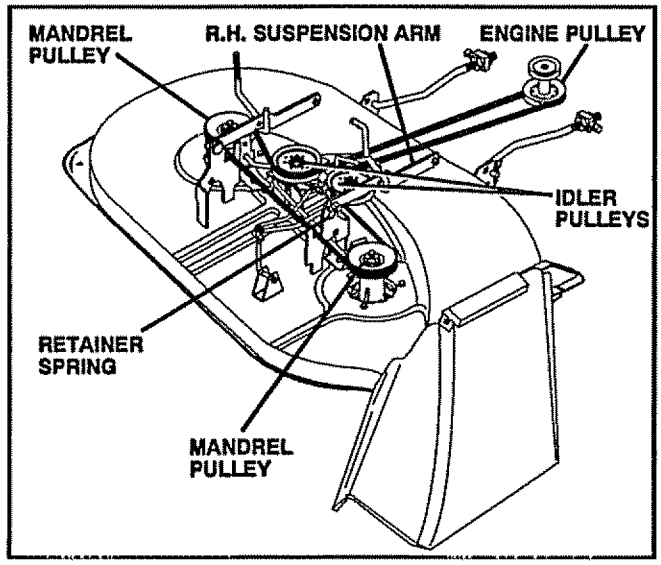



FIG. 22

## TO ADJUST BRAKE (See Fig. 23)

Your unit is equipped with an adjustable brake system which is mounted on the right side of the transaxle.

If unit requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", disengage parking brake, loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Engage parking brake and recheck distance.
- Road test unit for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center.

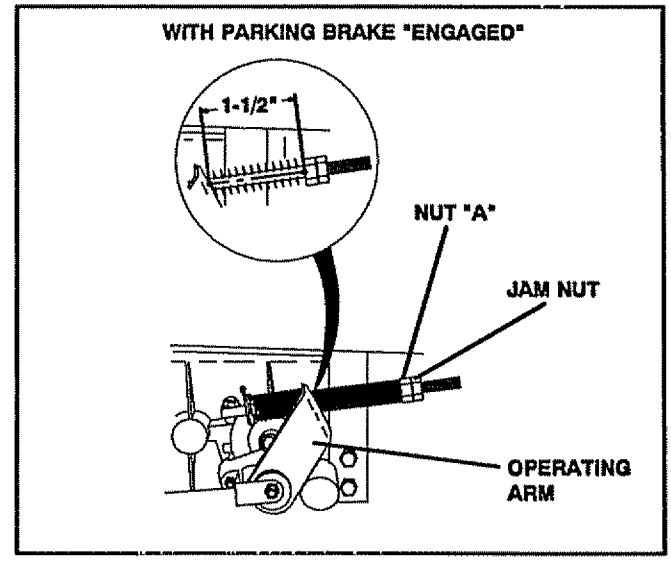



FIG. 23

## TO REPLACE MOTION DRIVE BELT (See Fig. 24)

Park the tractor on level area. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove belt from stationary idler and clutching idler.
- Remove belt from engine pulley.
- Roll belt over top of transaxle pulley.
- Install new belt by reversing above procedure.

**IMPORTANT:** REPLACE ONLY WITH BELT LISTED IN THIS MANUAL.

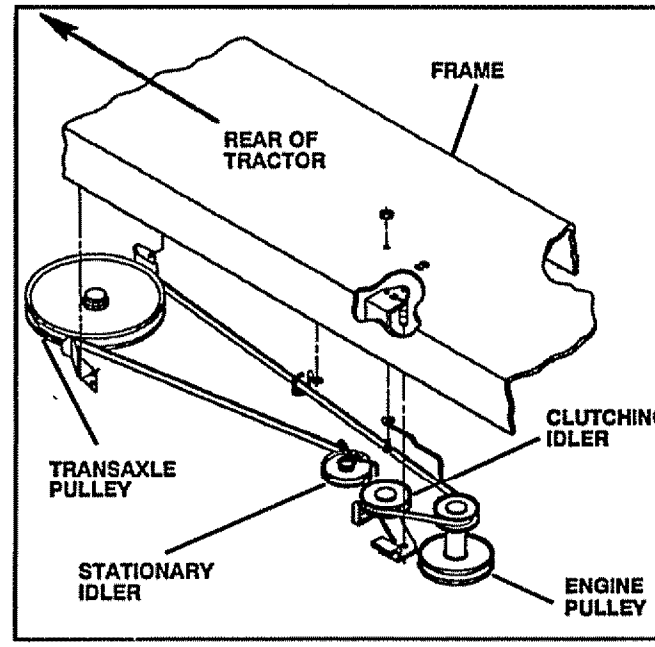



FIG. 24

# SERVICE AND ADJUSTMENTS

## TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

## FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center.

## TO REMOVE WHEEL FOR REPAIRS (See Fig. 25)

- Block up axle securely.
- Remove hub cap, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace hub cap.

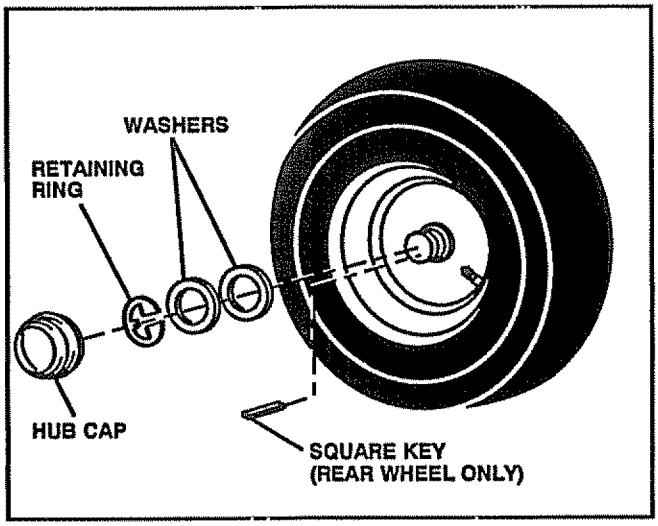



FIG. 25

## TO START ENGINE WITH A WEAK BATTERY (See Fig. 26)

**CAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.**

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

**IMPORTANT:** YOUR UNIT IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to a good CHASSIS GROUND, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and fully charged battery.
- RED cable last from both batteries.

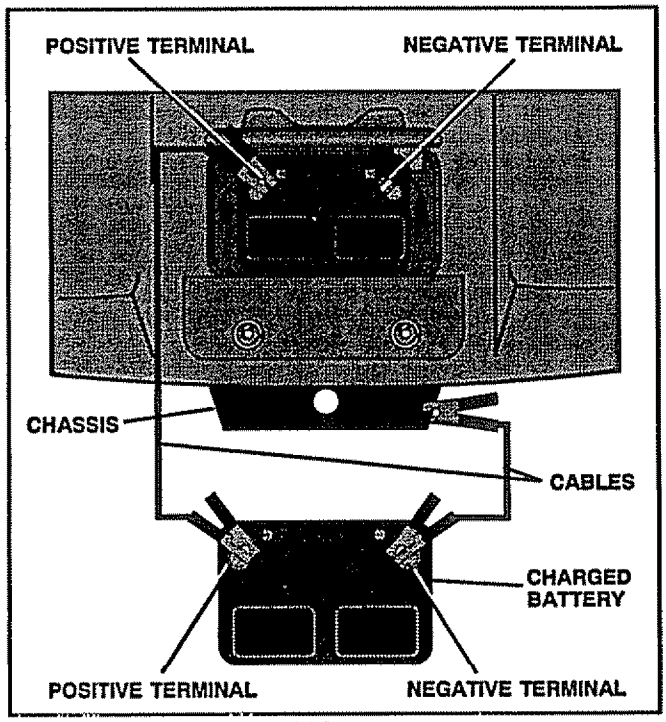



FIG. 26

# SERVICE AND ADJUSTMENTS

## TO REPLACE FUSE (See Fig. 27)

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located in the engine compartment, directly in front of the dash.

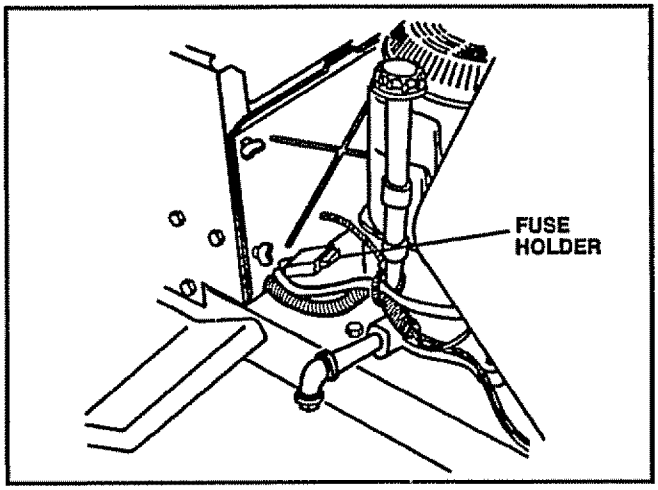



FIG. 27

## TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- Close hood.

## INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running or prevent it from starting.

- Check wiring. See electrical wiring diagram in Repair Parts section of this manual.

## TO REMOVE HOOD AND GRILL (See Fig. 28)

**CAUTION: Muffler is hot. Be careful when removing retainer springs from hood pivot brackets.**

- Raise hood.
- Unsnap headlight wire connector.
- Remove retainer springs from hood pivot brackets.
- Stand in front of tractor. Grasp hood at sides, tilt forward and lift off of tractor.
- To reinstall, slide hood pivot brackets into slots in frame. Replace retainer springs.
- Reconnect headlight wire connector and close hood.

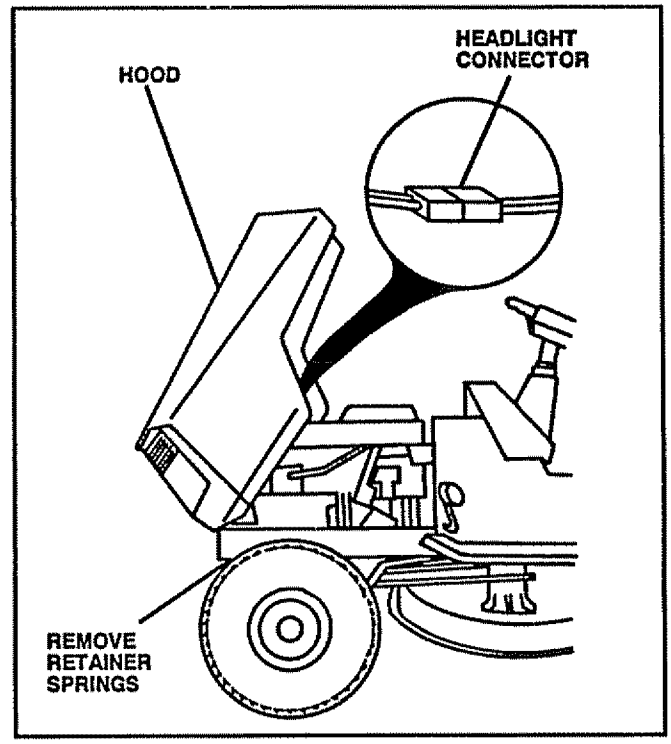



FIG. 28

# SERVICE AND ADJUSTMENTS

## ENGINE

### TO ADJUST THROTTLE CONTROL CABLE (See Fig. 29)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever from "SLOW" to "CHOKE" position. Slowly move lever from "CHOKE" to "FAST" position.
- Check that holes "A" in governor control lever and hole in governor plate line-up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.

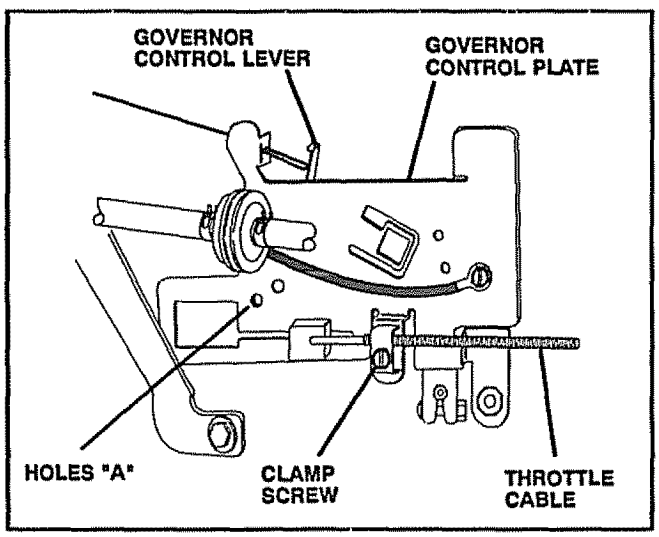



FIG. 29

### TO ADJUST CARBURETOR (See Fig. 30)

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning idle mixture valve **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

**IMPORTANT:** DAMAGE TO THE NEEDLE VALVE AND THE SEAT IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).
- With engine off turn idle mixture valve **in** (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1 full turn.

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in "NEUTRAL" position.
- Move throttle control lever to "SLOW" position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture valve **in** (clockwise) until engine begins to die and then turn **out** (counterclockwise) until engine runs rough. Turn valve to a point midway between those two positions. Release throttle lever.

ACCELERATION TEST -

- Move throttle control lever from "SLOW" to "FAST" position. If engine hesitates or dies, turn idle mixture valve **out** (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust - damage may result.

**IMPORTANT:** NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

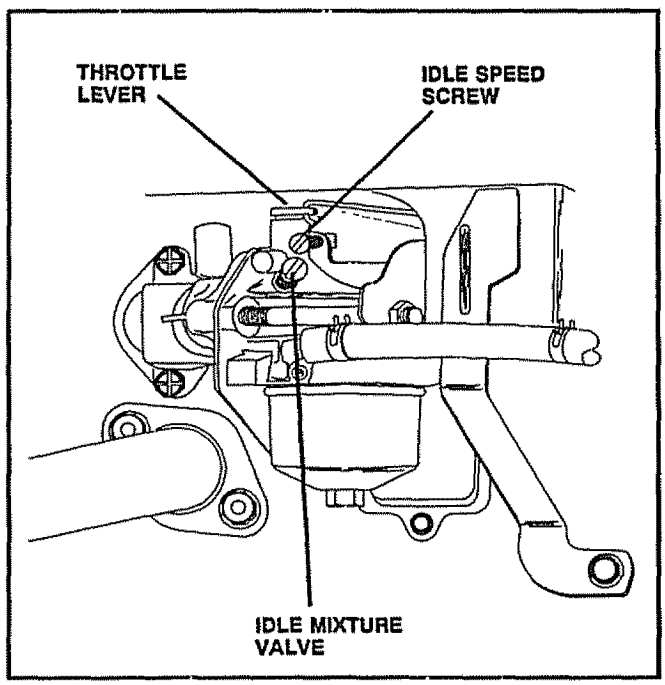



FIG. 30

# STORAGE

Immediately prepare your tractor for storage at the end of the season or if the unit will not be used for 30 days or more.

**CAUTION: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.**

## TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

### BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- Be sure battery drain tube is securely attached.

## ENGINE

### FUEL SYSTEM

**IMPORTANT:** IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

**NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

### ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

### CYLINDERS

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

## OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

**IMPORTANT:** NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

# TROUBLESHOOTING POINTS

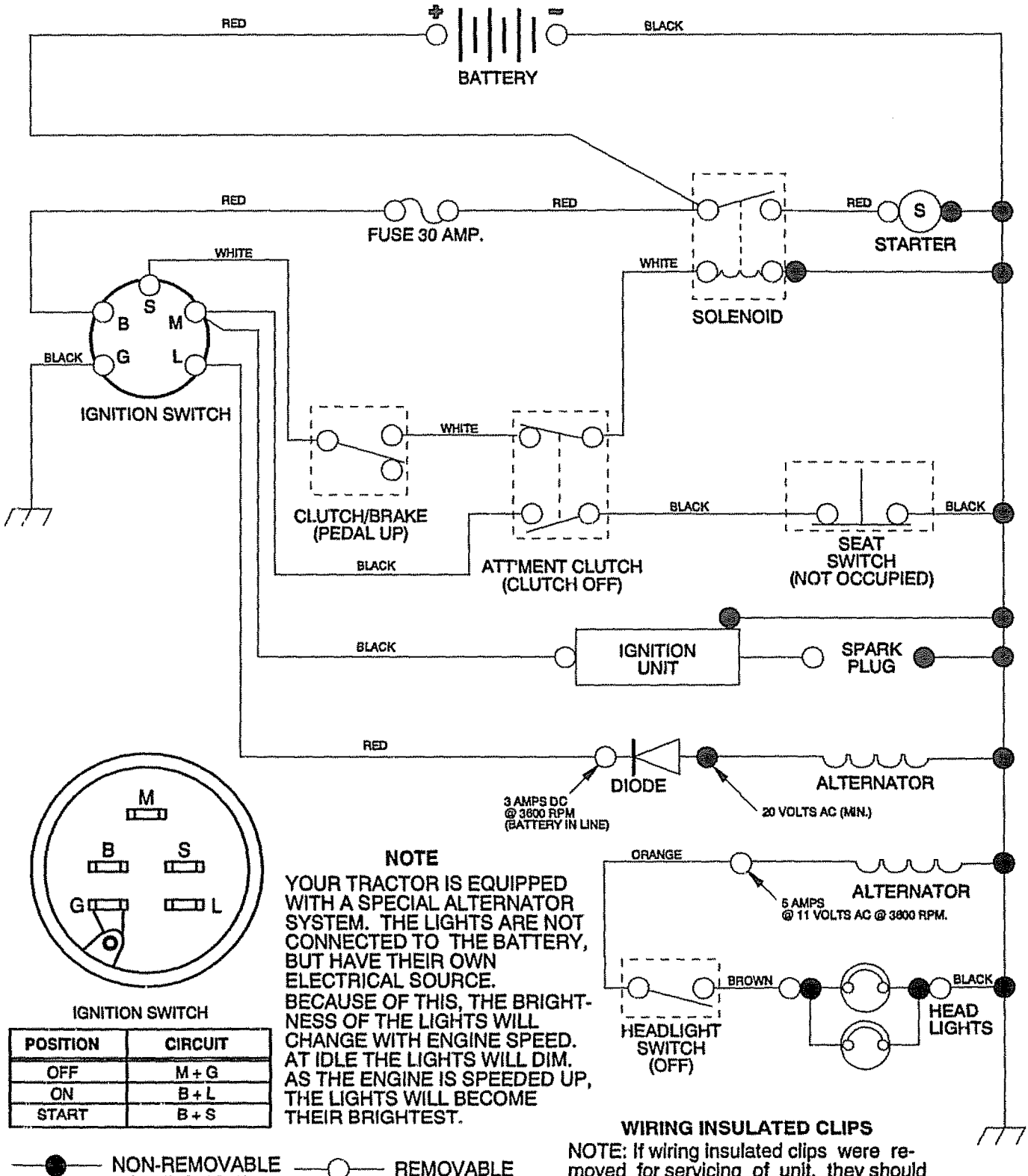
| PROBLEM | CAUSE | CORRECTION |
|---|---|---|
| **Will not start** | 1. Out of fuel.<br>2. Engine not "CHOKED" properly.<br>3. Engine flooded.<br>4. Bad spark plug.<br>5. Dirty air filter.<br>6. Dirty fuel filter.<br>7. Water in fuel.<br>8. Loose or damaged wiring.<br>9. Carburetor out of adjustment.<br>10. Engine valves out of adjustment. | 1. Fill fuel tank.<br>2. See "TO START ENGINE" in Operation section.<br>3. Wait several minutes before attempting to start.<br>4. Replace spark plug.<br>5. Clean/replace air filter.<br>6. Replace fuel filter.<br>7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.<br>8. Check all wiring.<br>9. Contact Sears Service Center/Department.<br>10. Contact Sears Service Center/Department. |
| **Hard to start** | 1. Dirty air filter.<br>2. Bad spark plug.<br>3. Weak or dead battery.<br>4. Dirty fuel filter.<br>5. Stale or dirty fuel.<br>6. Loose or damaged wiring.<br>7. Carburetor out of adjustment.<br>8. Engine valves out of adjustment. | 1. Clean/replace air filter.<br>2. Replace spark plug.<br>3. Recharge or replace battery.<br>4. Replace fuel filter.<br>5. Drain fuel tank and refill with fresh gasoline.<br>6. Check all wiring.<br>7. Contact Sears Service Center/Department.<br>8. Contact Sears Service Center/Department. |
| **Engine will not turn over** | 1. Clutch/brake pedal not depressed.<br>2. Attachment clutch is engaged.<br>3. Weak or dead battery.<br>4. Blown fuse.<br>5. Corroded battery terminals.<br>6. Loose or damaged wiring.<br>7. Faulty ignition switch.<br>8. Faulty solenoid or starter.<br>9. Faulty operator presence switch(es). | 1. Depress clutch/brake pedal.<br>2. Disengage attachment clutch.<br>3. Recharge or replace battery.<br>4. Replace fuse.<br>5. Clean battery terminals.<br>6. Check all wiring.<br>7. Check/replace ignition switch.<br>8. Check/replace solenoid or starter.<br>9. Contact Sears Service Center/Department. |
| **Engine clicks but will not start** | 1. Weak or dead battery.<br>2. Corroded battery terminals.<br>3. Loose or damaged wiring.<br>4. Faulty solenoid or starter. | 1. Recharge or replace battery.<br>2. Clean battery terminals.<br>3. Check all wiring.<br>4. Check/replace solenoid or starter. |
| **Loss of power** | 1. Cutting too much grass/too fast.<br>2. Throttle in "CHOKE" position.<br>3. Build-up of grass, leaves and trash under mower.<br>4. Dirty air filter.<br>5. Low oil level/dirty oil.<br>6. Faulty spark plug.<br>7. Dirty fuel filter.<br>8. Stale or dirty fuel.<br>9. Water in fuel.<br>10. Spark plug wire loose.<br>11. Dirty engine air screen/fins.<br>12. Dirty/clogged muffler.<br>13. Loose or damaged wiring.<br>14. Carburetor out of adjustment.<br>15. Engine valves out of adjustment. | 1. Set in "Higher Cut" position/reduce speed.<br>2. Adjust throttle control.<br>3. Clean underside of mower housing.<br>4. Clean/replace air filter.<br>5. Check oil level/change oil.<br>6. Clean and regap or change spark plug.<br>7. Replace fuel filter.<br>8. Drain fuel tank and refill with fresh gasoline.<br>9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.<br>10. Connect and tighten spark plug wire.<br>11. Clean engine air screen/fins.<br>12. Clean/replace muffler.<br>13. Check all wiring.<br>14. Contact Sears Service Center/Department.<br>15. Contact Sears Service Center/Department. |
| **Excessive vibration** | 1. Worn, bent or loose blade.<br>2. Bent blade mandrel.<br>3. Loose/damaged part(s). | 1. Replace blade. Tighten blade bolt.<br>2. Replace blade mandrel.<br>3. Tighten loose part(s). Replace damaged parts. |

# TROUBLESHOOTING POINTS

| PROBLEM | CAUSE | CORRECTION |
|---|---|---|
| **Engine continues to run when operator leaves seat with attachment clutch engaged** | 1. Faulty operator-safety presence control system. | 1. Check wiring, switches and connections. If not corrected, contact Sears Service Center/Department. |
| **Poor cut - uneven** | 1. Worn, bent or loose blade.<br>2. Mower deck not level.<br>3. Buildup of grass, leaves, and trash under mower.<br>4. Bent blade mandrel.<br>5. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. | 1. Replace blade. Tighten blade bolt.<br>2. Level mower deck.<br>3. Clean underside of mower housing.<br>4. Replace blade mandrel.<br>5. Clean around mandrels to open vent holes. |
| **Mower blades will not rotate** | 1. Obstruction in clutch mechanism.<br>2. Worn/damaged mower drive belt.<br>3. Frozen idler pulley.<br>4. Frozen blade mandrel. | 1. Remove obstruction.<br>2. Replace mower drive belt.<br>3. Replace idler pulley.<br>4. Replace blade mandrel. |
| **Poor grass discharge** | 1. Engine speed too slow.<br>2. Travel speed too fast.<br>3. Wet grass.<br>4. Mower deck not level.<br>5. Low/uneven tire air pressure.<br>6. Worn, bent or loose blade.<br>7. Buildup of grass, leaves and trash under mower.<br>8. Mower drive belt worn.<br>9. Blades improperly installed.<br>10. Improper blades used.<br>11. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. | 1. Place throttle control in "FAST" position.<br>2. Shift to slower speed.<br>3. Allow grass to dry before mowing.<br>4. Level mower deck.<br>5. Check tires for proper air pressure.<br>6. Replace/sharpen blade. Tighten blade bolt.<br>7. Clean underside of mower housing.<br>8. Replace mower drive belt.<br>9. Reinstall blades sharp edge down.<br>10. Replace with blades listed in this manual.<br>11. Clean around mandrels to open vent holes. |
| **Headlight(s) not working (if so equipped)** | 1. Switch is "OFF".<br>2. Bulb(s) burned out.<br>3. Faulty light switch.<br>4. Loose or damaged wiring.<br>5. Blown fuse. | 1. Turn switch "ON".<br>2. Replace bulb(s).<br>3. Check/replace light switch.<br>4. Check wiring and connections.<br>5. Replace fuse. |
| **Battery will not charge** | 1. Bad battery cell(s).<br>2. Poor cable connections.<br>3. Faulty regulator (if so equipped).<br>4. Faulty alternator. | 1. Replace battery.<br>2. Check/clean all connections.<br>3. Replace regulator.<br>4. Replace alternator. |
| **Engine "backfires" when turning engine "OFF"** | 1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. | 1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine. |

# 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

## SCHEMATIC




IGNITION SWITCH

| POSITION | CIRCUIT |
|---|---|
| OFF | M + G |
| ON | B + L |
| START | B + S |

**NOTE**

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

**WIRING INSULATED CLIPS**

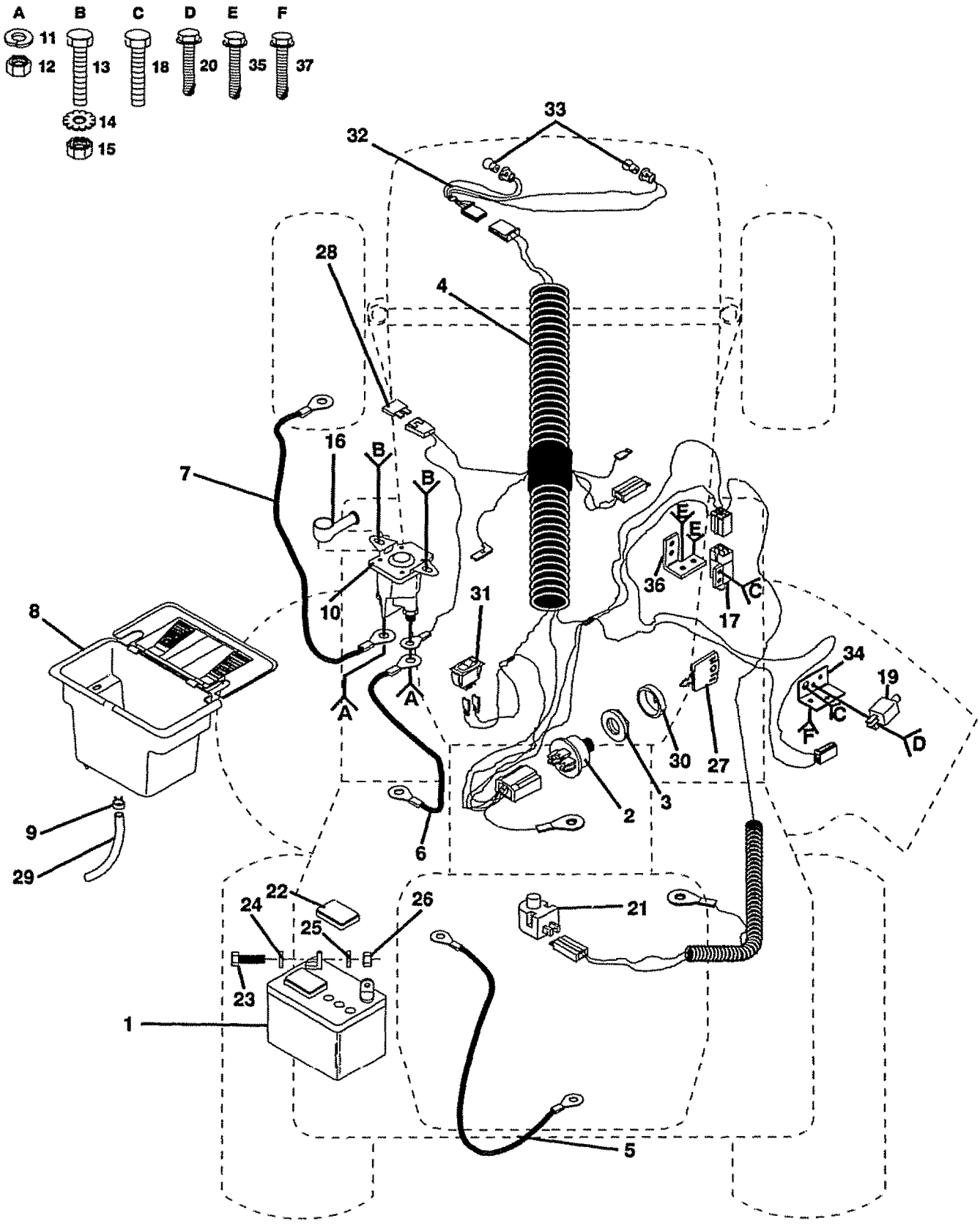
NOTE: If wiring insulated clips were removed for servicing of unit, they should be replaced to properly secure your wiring.

NON-REMOVABLE CONNECTIONS — REMOVABLE CONNECTIONS

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### ELECTRICAL



# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### ELECTRICAL

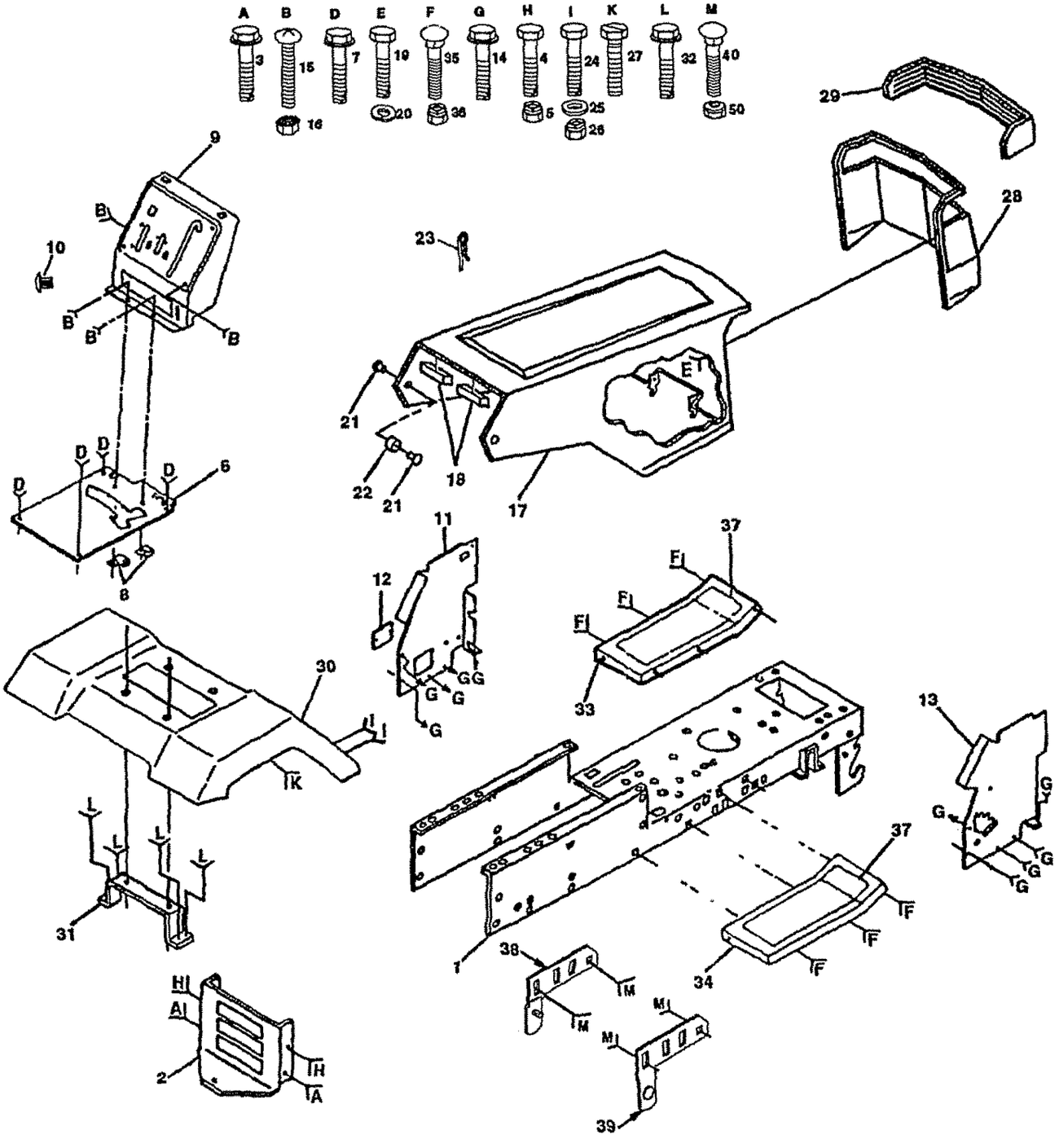
| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 121265X | Battery 12 Volt 25 Amp |
| 2 | STD365402 | Starter Swtc |
| 3 | 124211X | Nut Ignition |
| 4 | 132653 | Harness Ign B&s Fender Hl |
| 5 | 4207J | Cable Ground 6ga 12"black |
| 6 | 132202 | Cable Battery 6 Ga 42"red |
| 7 | 4799J | Cable Battery 6ga 11"red |
| 8 | 129965 | Case Battery Hinge Mechanical |
| 9 | 109596X | Clamp Hose Olive |
| 10 | 109081X | Solenoid |
| 11 | STD551125 | Lockwasher |
| 12 | 73350400 | Nut Jam Hex 1/4-20 Unc |
| 13 | 74780408 | Bolt Fin Hex 1/4-20uncx1/2 Gr5 |
| 14 | STD551225 | Washer |
| 15 | STD541425 | Nut |
| 16 | 131563 | Cover Terminal Red |
| 17 | 109553X | Switch Intlk Clutch Red 4 Term |
| 18 | STD601005 | Screw |
| 19 | 104445X | Switch Intlk Clutch Red 2 Term |
| 20 | STD601005 | Screw |
| 21 | 121305X | Switch Plunger Nc Gray |
| 22 | 121264X | Caps Battery 25/30 Amp |
| 23 | 74760412 | Bolt Hex Hd 1/4-20unc X 3/4 |
| 24 | STD551025 | Washer |
| 25 | STD551125 | Washer |
| 26 | STD541025 | Nut |
| 27 | 109310X | Key Ign Molded Craftsman |
| 28 | 108824X | Fuse 30 Amp Auto Green |
| 29 | 109238X | Tube Plastic 12" |
| 30 | 123620X | Cover Sw Key Blk 1 25 Text Slt |
| 31 | 110712X | Switch Light Blk Blk Red |
| 32 | 127441X | Harness Socket Light |
| 33 | 7662J | Bulb Light #1141 |
| 34 | 130890 | Bracket Switch Interlock |
| 35 | STD601005 | Screw |
| 36 | 108236X | Bracket Switch Clutch |
| 37 | STD601005 | Screw |

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

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### CHASSIS AND ENCLOSURES



# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### CHASSIS AND ENCLOSURES

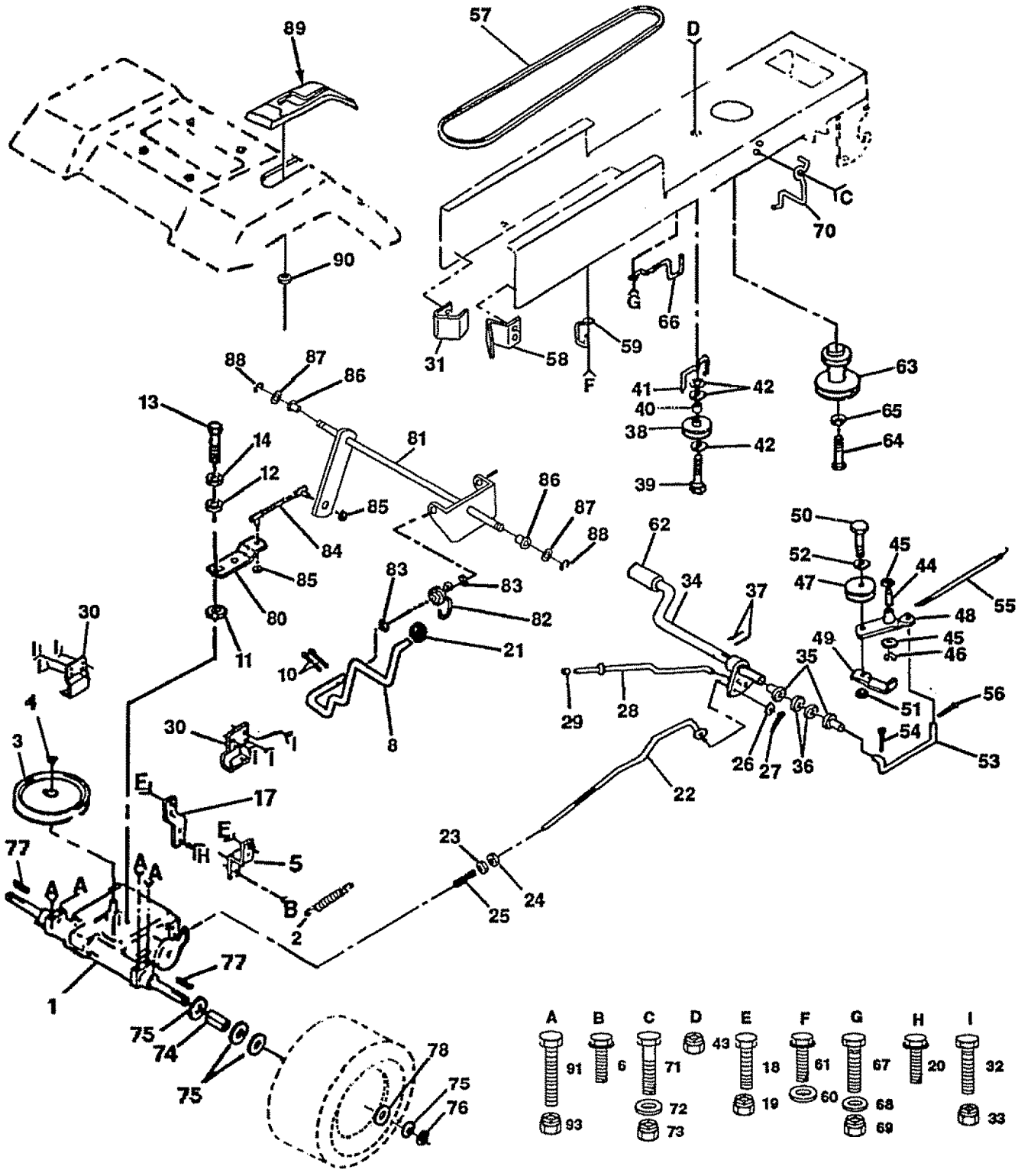
| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 135034 | Chassis Weldment 12ga 38/42 |
| 2 | 127866 | Drawbar Lt/yt 11 Ga |
| 3 | 17490612 | Screw Thdrol 3/8-16x3/4 Ty-tt |
| 4 | STD523707 | Bolt |
| 5 | STD541437 | Nut |
| 6 | 126595X010 | Saddle Silkscreened |
| 7 | 17490608 | Screw Thdrol 3/8-16x1/2 Ty-tt |
| 8 | 2751R | Clip Line Fuel 13/32 Mtg Hole |
| 9 | 126604X010 | Dash Silkscreened Sears Eng |
| 10 | 5479J | Plug Button Blk 359 Dia |
| 11 | 122795X | Panel Pnt Dash Lh |
| 12 | 121794X | Cover Access Black Square |
| 13 | 124031X012 | Panel Slkscr Dash Rh Weldment |
| 14 | 17490608 | Screw Thdrol 3/8-16x1/2 Ty-tt |
| 15 | 74180512 | Screw Mach Trhd 5/16-18uncx3/4 |
| 16 | STD541431 | Nut |
| 17 | 131445X417 | Hood Asm Pnt Weld Silver Powde |
| 18 | 126938X | Bumper Hood |
| 19 | STD512505 | Screw |
| 20 | STD551125 | Washer |
| 21 | 122933X | Rivet Ratchet Nylon |
| 22 | 124479X | Washer Nylon Blk 28x 75x 19 |
| 23 | 4921H | Retainer Spring |
| 24 | STD523707 | Bolt |
| 25 | 19131312 | Washer 13/32 X 13/16 X 12 Ga |
| 26 | STD541437 | Nut |
| 27 | 17490608 | Screw Thdrol 3/8-16x1/2 Ty-tt |
| 28 | 123915X | Grille Grey |
| 29 | 124029X | Lens Headlight Bar Clear |
| 30 | 126599X417 | Fender Pnt |
| 31 | 109873X | Bracket Pnt Fender |
| 32 | 17490612 | Screw Thdrol 3/8-16x3/4 Ty-tt |
| 33 | 105465X417 | Footrest Pnt Lh (silver) |
| 34 | 105464X417 | Footrest Pnt Rh (silver) |
| 35 | STD533707 | Bolt |
| 36 | STD541437 | Nut |
| 37 | 105466X | Pad Footrest Rbr Sq Craftsman |
| 38 | 134618 | Bracket, Assembly Pivot LH Mower Rear |
| 39 | 134617 | Bracket, Assembly Pivot RH Mower Rear |
| 40 | 72140606 | Bolt Carriage 3/8-16 x 3/4 |
| 50 | STD541437 | Nut |

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

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### DRIVE



# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### DRIVE

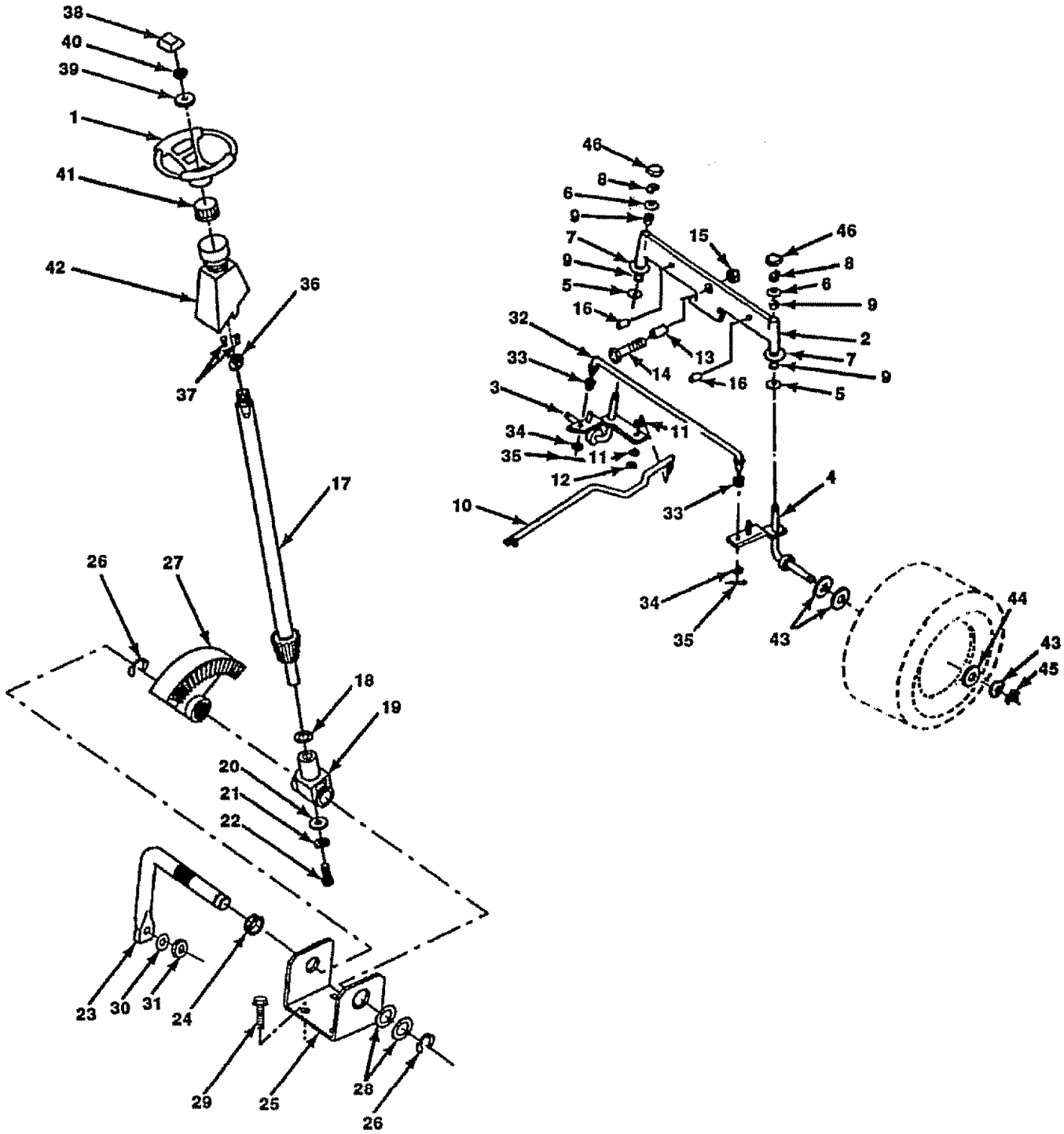
| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 120897X | Transaxle 5sp Std Dana |
| 2 | 110422X | Spring Return Brake T/a Zinc |
| 3 | 123666X | Pulley Transaxle Alum |
| 4 | 12000028 | Ring Retainer # 5100-62 |
| 5 | 121520X | Strap Pnt Torque 30 Deg Blk |
| 6 | 17490512 | Screw Thdrol 5/16-18 X 3/4 Tyt |
| 8 | 127270 | Rod Shifter Blk Zinc 13 17 Lg |
| 10 | STD561210 | Pin Cotter 1/8 X 1 Cad |
| 11 | 105701X | Washer Plate Shf 388 Sq Hole |
| 12 | 19151216 | Washer 15/32 X 3/4 X 16Ga |
| 13 | 71040412 | Bolt Fin Hex 1/4-28unfx3/4 Gr8 |
| 14 | STD551125 | Washer Lock Hvy Helical 1/4 |
| 17 | 121520X | Strap Pnt Torque 30 DEG BLK |
| 18 | STD523707 | Bolt Fin Hex 3/8-16unc X 3/4 |
| 19 | STD541437 | Nut Crownlock 3/8-16 Unc |
| 20 | 17490512 | Screw Thdrol 5/16-18 X 3/4 Tyt |
| 21 | 106933X | Knob Rd 1/2-13 Plstc Thds Blk |
| 22 | 131867 | Rod Brake Lt |
| 23 | STD541437 | Nut Lock Hex W/wsh 3/8-16unc |
| 24 | STD541237 | Nut Hex Jam 3/8-16 Unc |
| 25 | 106888X | Spring Rod Brake 2 00 Zinc |
| 26 | STD551037 | Washer 13/32 X 13/16 X 16 Ga |
| 27 | STD561210 | Pin Cotter 1/8 X 3/4 Cad |
| 28 | 128904 | Rod Brake Parking Lt |
| 29 | 124236X | Cap Parking Brake Red |
| 30 | 109167X | Bracket Transmission |
| 31 | 127275X | Keeper Belt Lh Lt 14 Ga |
| 32 | STD523707 | Bolt Fin Hex 3/8-16unc X 3/4 |
| 33 | STD541437 | Nut Crownlock 3/8-16 Unc |
| 34 | 122424X | Shaft Asm Pedal Foot 1 930 |
| 35 | 120183X | Bearing Nylon Blk 629 Id |
| 36 | STD551062 | Washer 21/32 X 1 X 16 Ga |
| 37 | STD571810 | Pin Roll 3/16 X 1 |
| 38 | 123674X | Pulley Idler Flat |
| 39 | STD523727 | Bolt Fin Hex 3/8-16unc X 2-3/4 |
| 40 | 4470J | Spacer Split 395 X 59 Bzp |
| 41 | 109070X | Keeper Belt Retainer |
| 42 | 19131312 | Washer 13/32 X 13/16 X 12 Ga |
| 43 | STD541437 | Nut Crownlock 3/8-16 Unc |
| 44 | 105706X | Bearing Nyl 503 X 628 X 1 25 |
| 45 | 110812X | Washer Hardened |
| 46 | 12000039 | Ring Klip #t5304-50 |
| 47 | 127783 | Pulley Idler V Groove Plastic |
| 48 | 123789X | Bellcrank Asm |
| 49 | 123205X | Retainer Belt Style Spring |
| 50 | STD523715 | Bolt Hex Hd 3/8-16unc X 1-1/2 |
| 51 | STD541437 | Nut Crownlock 3/8-16 Unc |
| 52 | STD551037 | Washer 13/32 X 13/16 X 16 Ga |
| 53 | 105710X | Link Clutch 7 66 |
| 54 | STD561210 | Pin Cotter 1/8 X 3/4 Cad |
| 55 | 105709X | Spring Return Clutch 6 75 |
| 56 | STD561210 | Pin Cotter 1/8 X 3/4 Cad |
| 57 | 125907X | V-belt Ground Drive 90 00 |
| 58 | 127274X | Keeper Belt Rh Lt Pnt/zinc 16g |
| 59 | 104777X | Retainer Belt Chassis LH Zinc |
| 60 | 19131312 | Washer 13/32 X 13/16 X 12 Ga |
| 61 | 17490612 | Screw Thdrol 3/8-16x3/4 Ty-tt |
| 62 | 8883R | Cover Pedal Blk Std |
| 63 | 134825 | Pulley Engine |
| 64 | 71170764 | Bolt Finhex 7/16-20 x 4 Gr. 5 |
| 65 | STD551143 | Washer Lock Hvy Hicl Spr 7/16 |
| 66 | 129921 | Keeper Belt Engine LH Lt |
| 67 | STD523710 | Bolt Fin Hex 3/8-16unc X 1 |
| 68 | 19131312 | Washer 13/32 X 13/16 X 12 Ga |
| 69 | STD541437 | Nut Crownlock 3/8-16 Unc |
| 70 | 134683 | Guide Belt Dr Mower RH |
| 71 | STD523710 | Bolt Fin Hex 3/8-16unc X 1 |
| 72 | 19132012 | Washer 13/32 X 1-1/4 X 12 Ga |
| 73 | STD541437 | Nut Crownlock 3/8-16 Unc |
| 74 | 109502X | Spacer Split 80x 94 Cad/zinc |
| 75 | 121749X | Washer 25/32 X 1 1/4 X 16 Ga |
| 76 | STD581075 | Ring E |
| 77 | 123583X | Key Square 2 0 X 1845/ 1865 |
| 78 | 121748X | Washer 25/32 X 1 5/8 X 16ga |
| 80 | 123794X | Arm Pnt Shift T/a |
| 81 | 136934 | Shaft Asm Pnt Shifter |
| 82 | 123782X | Spring Torsion T/a |
| 83 | 19171216 | Washer 17/32 X 3/4 X 16ga |
| 84 | 123793X | Rod Link Shift Adj 3 710 |
| 85 | 73530400 | Nut Nylock 1/4-28 |
| 86 | 71208X | Bushing Pivot W/ 180 Step Pm |
| 87 | 19212016 | Washer |
| 88 | 12000008 | E Ring |
| 89 | 131635 | Console Shift 5sp W/ign Lt Srs |
| 90 | 124346X | Nut Self-thd Wsh-hd 1/4 Zinc |
| 91 | STD523727 | Bolt Fin Hex 3/8-16 x 2-3/4 |
| 93 | STD541437 | Nut Crown Lock 3/8-16 |

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

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### STEERING ASSEMBLY



# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### STEERING ASSEMBLY

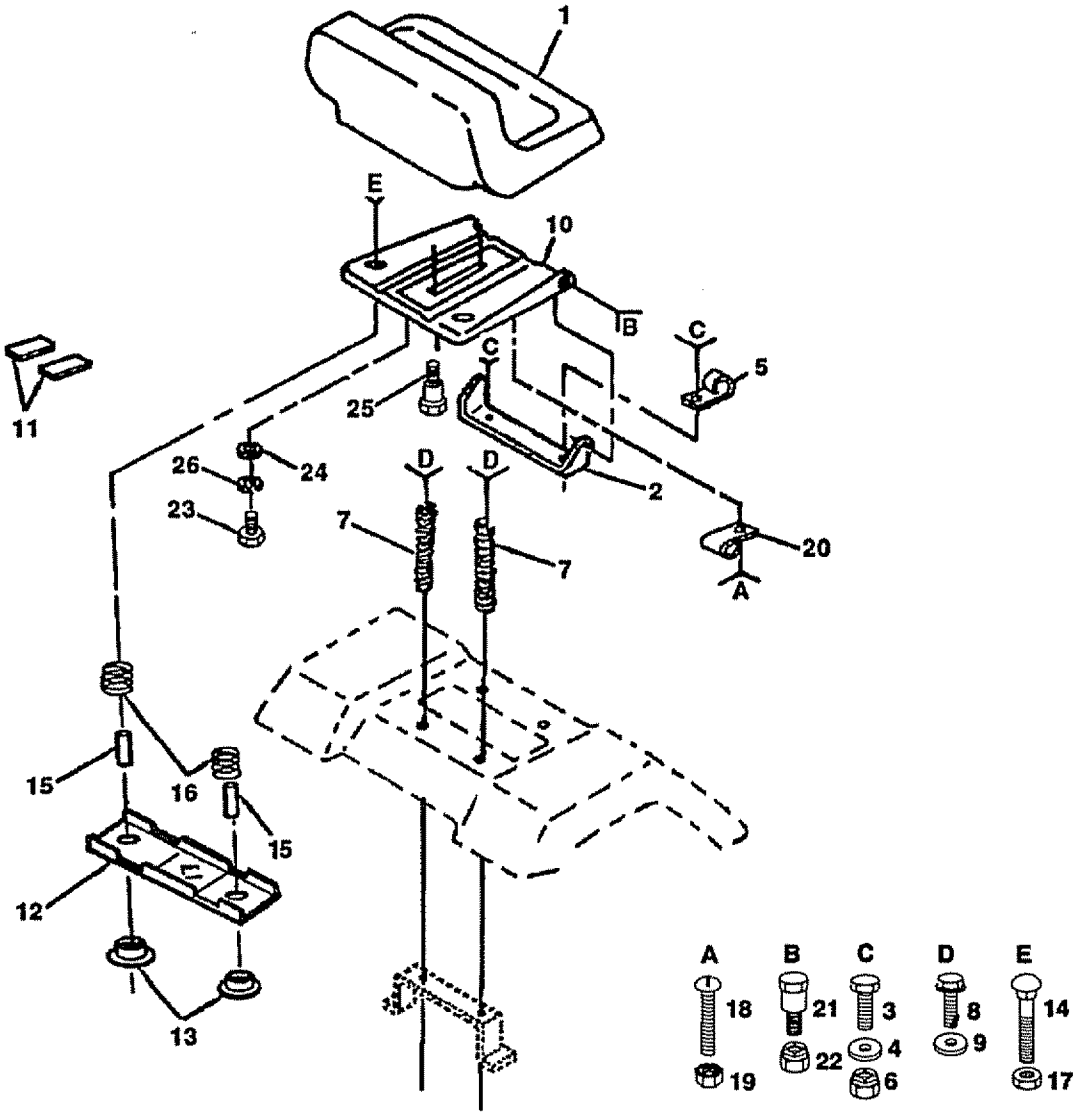
| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 133741 | Wheel Steering |
| 2 | 131450 | Axle asm Front |
| 3 | 135227 | Spindle Asm Lh |
| 4 | 135228 | Spindle Asm Rh |
| 5 | 6266H | Bearing Race Thrust Harden |
| 6 | 121748X | Washer 25/32 X 1 5/8 X 16ga |
| 7 | 19272016 | Washer 27/32 X 1 1/4 X 16 Ga |
| 8 | 12000029 | Ring Klip #t5304-75 |
| 9 | 3366R | Bearing Col Strg Blk |
| 10 | 130468 | Link Drag Sol Ball Jt 20 064 |
| 11 | STD551137 | Lockwasher |
| 12 | 73610600 | Nut Fin Hex 3/8-24 Unf |
| 13 | 110438X | Spacer Bearing Axle Front |
| 14 | 74011056 | Bolt Hex 5/8-11 Unc X 3-1/2 |
| 15 | 73601000 | Nut Hex Jam Lk W/wh 5/8-11 Unc |
| 16 | 132624 | Pin Axle 5/8 X 1 55/1 54 Lg |
| 17 | 132614 | Shaft Asm Strg 5/8 X 15 19 Lt |
| 18 | 57079 | Washer Thrust 515x 750x 033 |
| 19 | 124035X | Support Shaft |
| 20 | 126684X | Washer Shim 1/4 X 5/8 X 062 |
| 21 | STD551125 | Washer |
| 22 | 71070410 | Screw Hex Socket 1/4-20 X 5/8 |
| 23 | 127501 | Shaft Asm Pittman |
| 24 | 109816X | Nyliner Snap In |
| 25 | 124036X | Bracket Steering |
| 26 | 12000029 | Ring Klip #t5304-75 |
| 27 | 124034X | Gear Sector |
| 28 | 6266H | Bearing Race Thrust Harden |
| 29 | 17490612 | Screw Thdrol 3/8-16x3/4 Ty-tt |
| 30 | STD551137 | Lockwasher |
| 31 | 73610600 | Nut Fin Hex 3/8-24 Unf |
| 32 | 130465 | Rod Tie Wire Form 19 75 Mech |
| 33 | 126847X | Bushing |
| 34 | 19131416 | Washer 13/32 X 7/8 X 16ga |
| 35 | STD561210 | Pin |
| 36 | 132196 | Bushing Strg 5/8 Id Dash |
| 37 | STD611005 | Screw |
| 38 | 133742 | Insert Cap Strg Wheel |
| 39 | 19133808 | Washer 13/32 X 2-3/8 X 8 Ga |
| 40 | STD541537 | Gripco Nut |
| 41 | 104820X | Adaptor Wheel Strg 640/ 635id |
| 42 | 124417X | Boot Shaft Steering |
| 43 | 121749X | Washer 25/32 X 1 1/4 X 16 Ga |
| 44 | 121748X | Washer 25/32 X 1 5/8 X 16ga |
| 45 | 12000029 | Ring Klip #t5304-75 |
| 46 | 121232X | Cap Spindle Fr Top Blk |

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

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### SEAT ASSEMBLY




| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 127436 | Seat V250 Blk/red Craftsman |
| 2 | 126656X | Bracket Pnt Pivot Seat (blk) |
| 3 | STD523707 | Bolt |
| 4 | 19131210 | Washer 13/32 X 3/4 X 10 Ga |
| 5 | 2751R | Clip Line Fuel 13/32 Mtg Hole |
| 6 | STD541437 | Nut |
| 7 | 124181X | Spring Seat Cprsn 2 250 Blk Zi |
| 8 | 17490616 | Screw Thdrol 3/8-16 X 1 Ty-tt |
| 9 | 19131614 | Washer 13/32 X 1 X 14 Ga |
| 10 | 131451 | Pan Pnt Seat (blk) |
| 11 | 121251X | Strip Foam Gray Or Black |
| 12 | 121246X | Bracket Pnt Mounting Switch |
| 13 | 121248X | Bushing Snap Blk Nyl 50 Id |

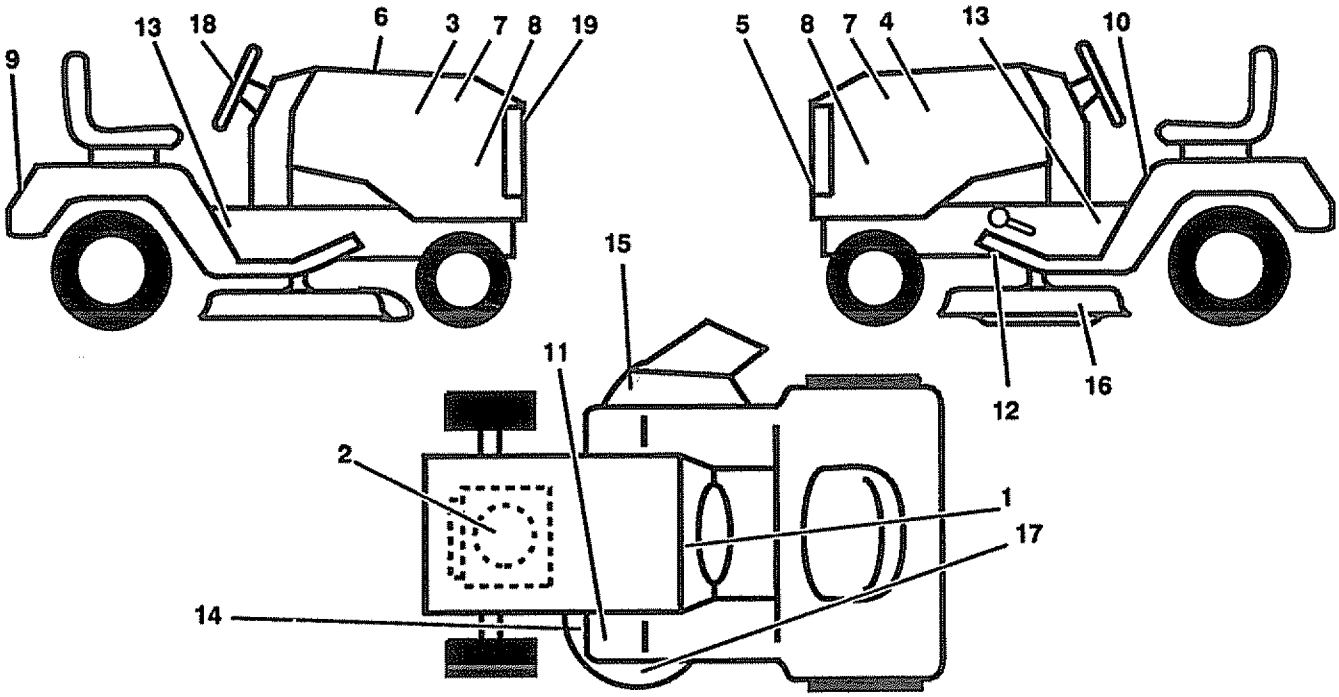
| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 14 | 72050411 | Bolt Rdhd Sht Nk 1/4-20x1-3/8 |
| 15 | 121249X | Spacer Split 28 X 88 Zinc |
| 16 | 121250X | Spring Cprsn 1 27 Blk Pnt |
| 17 | 123976X | Nut Lock 1/4 Lge Flg Gr 5 Zinc |
| 18 | STD511005 | Screw |
| 19 | 73951000 | Nut Keps #10-32 Unf |
| 20 | 4171R | Clip Insulated 11/32 Mtg Hole |
| 21 | 105529X | Bolt Shoulder 5/16-18 Unc Blkz |
| 22 | STD541431 | Nut |
| 23 | 74780814 | Bolt Fin Hex 1/2-13 X 7/8 Gr 5 |
| 24 | 19171912 | Washer 17/32 X 1-3/16 X 12 Ga |
| 25 | 127018X | Bolt Shoulder 5/16-18 X 62 |
| 26 | STD551150 | Lockwasher |

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

# REPAIR PARTS

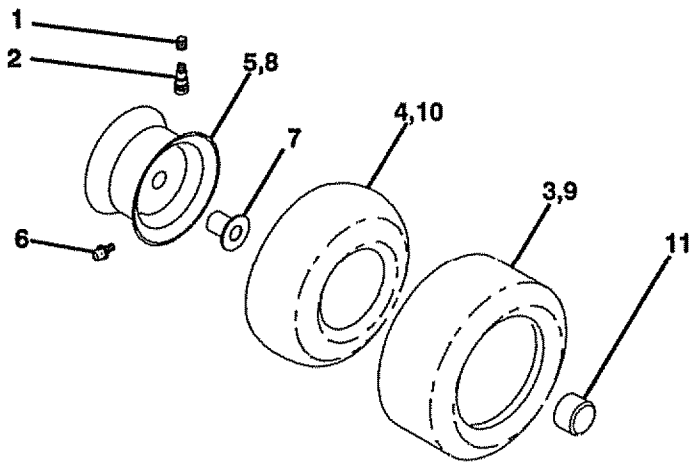
## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### DECALS




| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 108456X | Decal Instruction Operat Eng |
| 2 | 126685X | Decal Engine 12hp Ic B&s Craft |
| 3 | 124489X | Decal Hood Slope Rh Craftsman |
| 4 | 124490X | Decal Hood Slope Lh Craftsman |
| 5 | 132674 | Decal Grille Lt4000 Craft Usa |
| 6 | 133644 | Decal Maint Customer Sears Dom |
| 7 | 126770X | Decal Panel Side 12 Hp Ic |
| 8 | 108631X | Decal Ii(die Cut) |
| 9 | 125880X | Decal Fender Craftsman Red |
| 10 | 133796 | Decal Caution English |
| 11 | 4900J | Decal Clutch/brake English |
| 12 | 109199X | Decal V-belt Dr Sch Tractor E |
| 13 | 105809X | Decal Chassis 5sp 38" |
| 14 | 130929 | Decal Mower Drive Schematic 38 |
| 15 | 121343X | Decal Danger English |
| 16 | 3713J | Decal Rota Blades English |
| 17 | 133179 | Decal Mower Qc System |
| 18 | 132267 | Decal Insr Wh Strg Crafts Usa |
| 19 | 131265 | Decal Light Box, Grill |
| — | 135975 | Manual Owner's |

### WHEELS & TIRES



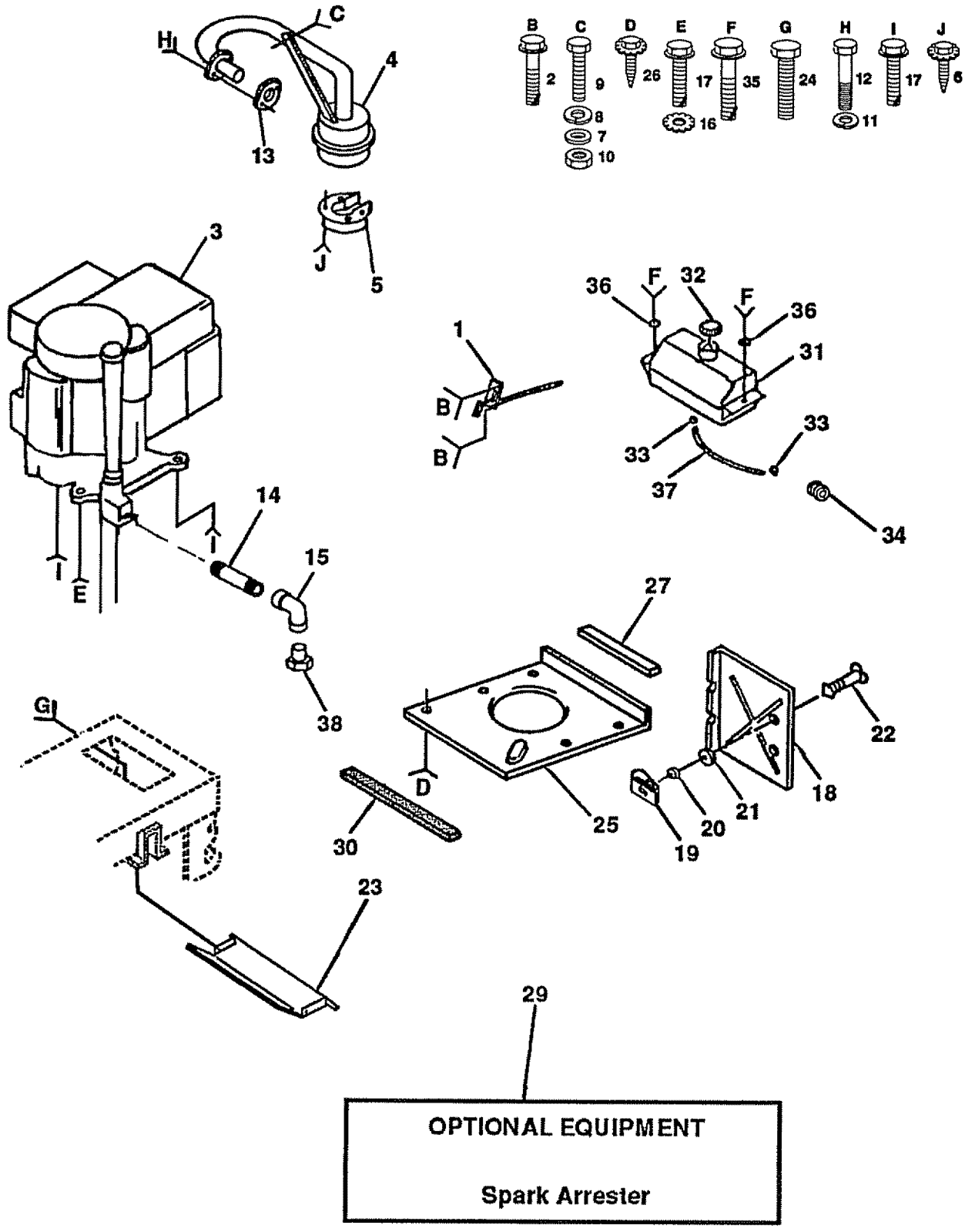

| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 59192 | Cap Value Tire |
| 2 | 65139 | Stem Value |
| 3 | 106222X | Tire F Ts 15 X 6 0 - 6 Service |
| 4 | 59904 | Tube Front (Service Item Only) |
| 5 | 106732X361 | Rim Asm 6"front Silver Service |
| 6 | 278H | Fitting Grease (Front Wheel only) |
| 7 | 9040H | Bearing Flange (Front wheel Only) |
| 8 | 106108X361 | Rim Asm 8"rear Silver Service |
| 9 | 3588R | Tire R Ts 18x8 5-8 S Service |
| 10 | 7152J | Tube Rear (Service Item Only) |
| 11 | 104757X | Cap Axle Blk 1 50 X 1 00 |

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

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

**ENGINE**



# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### ENGINE

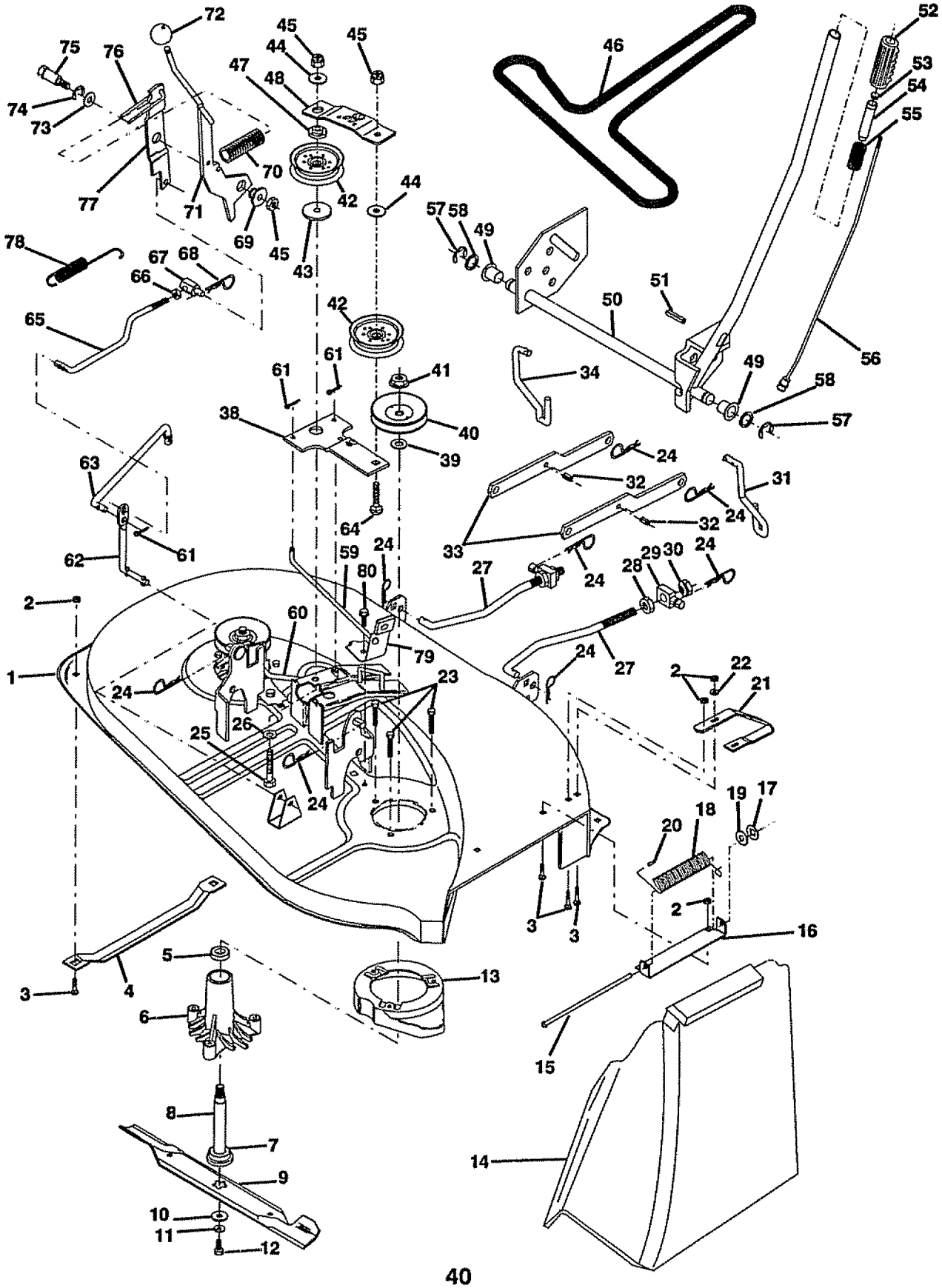
| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 132759 | Control Throt Rh Blk Pdl 15 10 |
| 2 | 17720410 | Screw Hex Thd Cut 1/4-20x5/8 T |
| 3 | 131951 | Engine B&s 12hp I/c Dual 1 Vt |
| 4 | 125610X | Muffler Exhaust B&s Lt Std |
| 5 | 101326L | Deflector Muffler # 222573 |
| 6 | 17030808 | Screw Spiderloc Hexhd#8x1/2 Ab |
| 7 | STD551025 | Washer |
| 8 | STD551125 | Washer |
| 9 | STD522510 | Bolt |
| 10 | 73220500 | Nut Hex 5/16-18 |
| 11 | STD551131 | Lockwasher |
| 12 | 71070510 | Screw Hexhd Cap 5/16-18x5/8 |
| 13 | 125593X | Gasket 1 313 Id Tin Plated |
| 14 | 13280324 | Nipple Pipe 3/8 Npt X 3" |
| 15 | 13200300 | Elbow Std 90 Degree 3/8-18 Npt |
| 16 | STD551237 | Washer |
| 17 | 17490620 | Screw Thdrol 3/8-16x1-1/4 Tytt |
| 18 | 105736X | Shield Pnt Heat |
| 19 | 105839X | Receptacle 1/4 Turn Dacrotized |
| 20 | 105838X | Retainer 1/4 Turn 365odx 222id |
| 21 | STD551025 | Washer |
| 22 | 123650X | Stud 1/4 Turn (replaces 105751) |
| 23 | 128953 | Shield Pnt Heat Browning Grass |
| 24 | STD601005 | Screw |
| 25 | 124027X | Shield Pnt Heat Hood Lt |
| 26 | 17030808 | Screw Spiderloc Hexhd#8x1/2 Ab |
| 27 | 105037X | Strip Foam 18" |
| 29 | 121851X | Arrestor Spark |
| 30 | 127057X | Pinch Weld Hood Black 2 00 |
| 31 | 109202X | Tank Fuel 1 25 Fr |
| 32 | 123549X | Cap Asm Fuel W/sym Vented |
| 33 | 123487X | Clamp Hose Blk |
| 34 | 124028X | Bushing Snap Nyl Blk Fuel Line |
| 35 | 17490412 | Screw Hexwsh Thdrol 1/4-20x3/4 |
| 36 | 19091416 | Washer 9/32 X 7/8 X 16ga |
| 37 | 101335K | Line Fuel 9 50" |
| 38 | | Plug Oil Drain (Order From Engine Manufacturer) |

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

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### 38" MOWER



# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### 38" MOWER

| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 129365 | Mower Asm 38"welded |
| 2 | STD541431 | Nut |
| 3 | STD533107 | Bolt |
| 4 | 7631J | Runner Mower Lh 10 00 |
| 5 | 110485X | Bearing Ball Mandrel |
| 6 | 128774 | Housing Mandrel Vented(machd) |
| 7 | 129895 | Bearing Ball #6204 (mandrel) |
| 8 | 133172 | Shaft Asm Mandrel Vented (Includes Key # 79) |
| 9 | 127842 | Blade Mower High Perf 38 |
| 10 | 129962 | Washer Hard Blade Mower Vented |
| 11 | STD551137 | Lockwasher |
| 12 | 850857 | Bolt 3/8-24x1 25 Gr8 Patched |
| 13 | 128961 | Stripper Mower Vented |
| 14 | 106736X | Shield Defector 38" |
| 15 | 106735X | Rod Hinge Brt/blk Zinc 9 88 Lg |
| 16 | 105896X | Bracket Deflector Mower |
| 17 | 110452X | Nut Push Phos & Oil |
| 18 | 106734X | Spring Deflector 4 46 Blk |
| 19 | 19111016 | Washer 11/32 X 5/8 X 16 Ga |
| 20 | 105304X | Cap Sleeve 80x 112 Blk Mower |
| 21 | 128772 | Runner Rh 38" |
| 22 | 19111216 | Washer 11/32 X 3/4 X 16ga |
| 23 | 78158 | Bolt 5/16-18 X 1 25 T/t |
| 24 | STD624008 | Ret Spring |
| 25 | 74600636 | Bolt Hex 3/8-16 X 2-1/4 |
| 26 | 19131612 | Washer 13/32 x 1 x 12 Ga. |
| 27 | 127218 | Link Front |
| 28 | 73350800 | Nut Jam Hex 1/2-13 Unc |
| 29 | 130171 | Trunnion Blk Zinc |
| 30 | 73680800 | Nut Crownlock 1/2-13 Unc |
| 31 | 135388 | Link Lift Rh |
| 32 | 135563 | Pin Spring |
| 33 | 130832 | Arm Suspension |
| 34 | 134619 | Link Lift Lh |
| 38 | 133840 | Asm Idler Arm |
| 39 | 129963 | Washer Spacer Mower Vented |
| 40 | 129206 | Pulley Mandrel 38" Single |
| 41 | 73050900 | Nut 9/16top Lock Flng Oil Dip |
| 42 | 131494 | Pulley Idler Flat |
| 43 | 122052X | Spacer Retainer Pm Mower |
| 44 | 19131612 | Washer 13/32 X 1 X 12 Ga |
| 45 | STD541437 | Nut |
| 46 | 131290 | V-belt Mower 88 12 38" |
| 47 | 133502 | Spacer Arm Idler Upper Hdn 42" |
| 48 | 133503 | Stiffener Arm Idler Upper 42" |
| 49 | 120183X | Bearing Nylon Blk 629 Id |
| 50 | 122507X | Shaft Asm Pnt Lft W/wo/inf Hgt |
| 51 | 105767X | Pin Groove 1 500 Zinc |
| 52 | 125631X | Grip Handle Fluted Blk |
| 53 | 122365X | Button Plunger Red |
| 54 | 122364X | Plunger Lever Lift |
| 55 | 122512X | Spring Cprsn 3 750 Oiled |
| 56 | 122514X | Rod Asm Lever 9 219 Bend Stake |
| 57 | STD581062 | E Ring |
| 58 | 19211416 | Washer 21/32 X 7/8 X 16ga |
| 59 | 131288 | Rod Brake Mandrel Rh 10 744 |
| 60 | 131289 | Rod Brake Mandrel Lh 4 856 |
| 61 | STD560907 | Cotter Pin |
| 62 | 133551 | Rod Pivot W/nibs |
| 63 | 133504 | Rod Clutch Secondary W/nibs |
| 64 | STD533717 | Bolt |
| 65 | 133550 | Rod Clutch Primary W/nibs |
| 66 | STD541237 | Nut |
| 67 | 133205 | Trunnion Adj 3/8-16 Unc X 1 30 |
| 68 | STD624003 | Retainer |
| 69 | 127498 | Bushing 747 Od X 794 Lg Brass |
| 70 | 128759 | Spring Clutch Mower 2 750 Zinc |
| 71 | 133573 | Arm Asm Pnt Clutch Primary |
| 72 | 106932X | Knob Rd 3/8-16 Pistc Thds Blk |
| 73 | 121748X | Washer 25/32 X 1 5/8 X 16ga |
| 74 | 12000029 | Ring Klip #t5304-75 |
| 75 | 128903 | Bolt Shoulder 3/8-16 Unc 1 44 |
| 76 | 127845 | Keeper Spring 4 000 |
| 77 | 127847 | Arm Clutch Secondary |
| 78 | 131870 | Spring Return |
| 79 | 130840 | Brake Asm Mower Vented |
| 80 | 17490512 | Screw Thdrol 5/16-18 X 3/4 Tyt |
| — | 131455 | Deck Complete Mower |
| — | 130794 | Mandrel Asm (Includes Key #'s 5-8, 10-12, 39-41) |

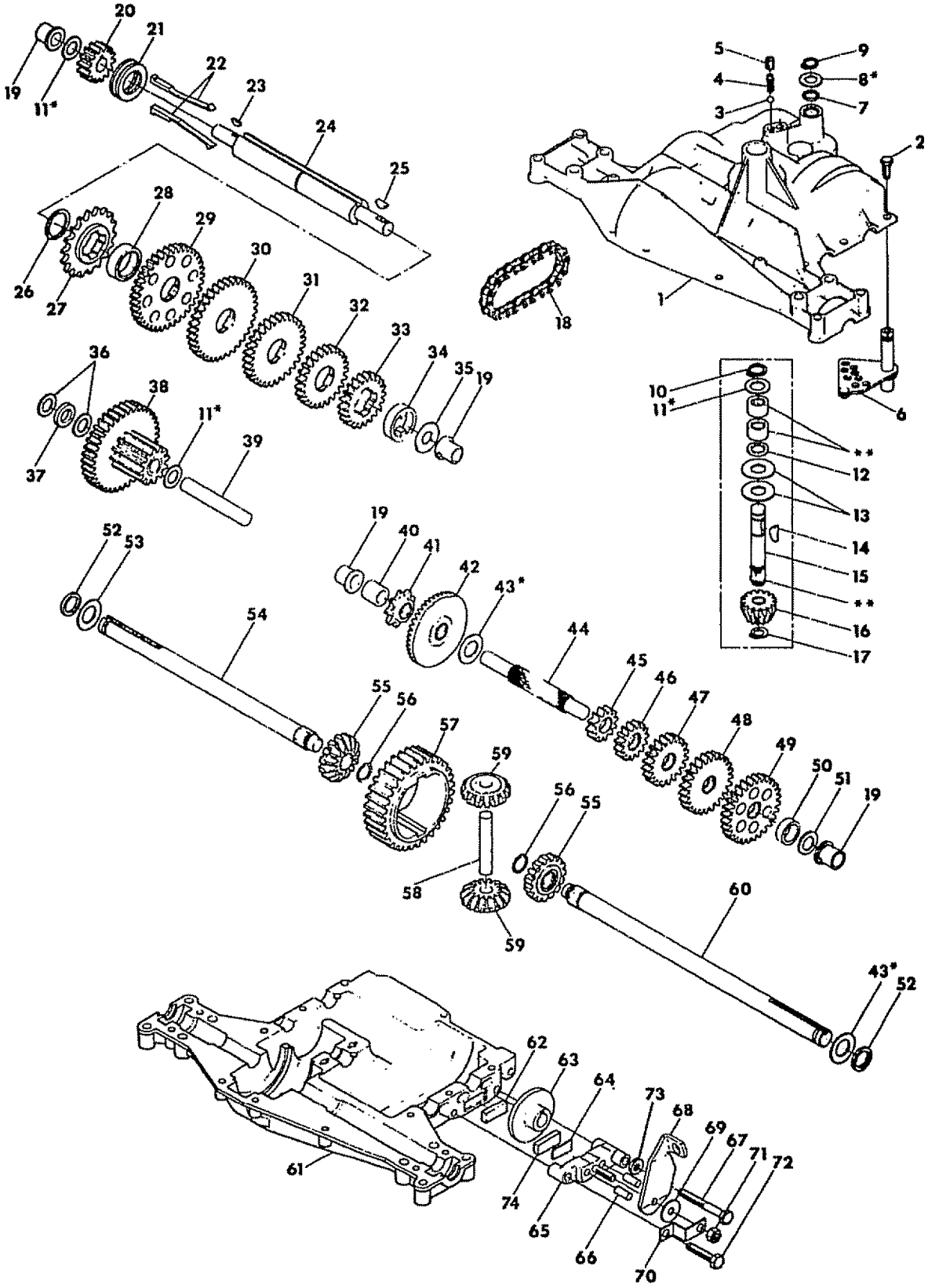
**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm.

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

## TRANSAXLE DANA - MODEL NUMBER 4360-6

### TRANSAXLE



# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

## TRANSAXLE DANA - MODEL NUMBER 4360-6

### TRANSAXLE

| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 120458X | Housing, Upper |
| 2 | 2274J | Screw, Tapping, Large 1/4-20 x .734 |
| 3 | 68003 | Ball, Detent |
| 4 | 105904X | Spring, Detent |
| 5 | 105905X | Screw, Set |
| 6 | 120460X | Shifter Assembly |
| 7 | 120461X | O-Ring |
| 8 | 120462X | *Washer, Plain .505 x .942 x .006 |
| | 120463X | *Washer, Plain .505 x .942 x .010 |
| | 120464X | *Washer, Plain .505 x .942 x .015 |
| | 120465X | *Washer, Plain .505 x .942 x .020 |
| | 120466X | *Washer, Plain .505 x .942 x .026 |
| | 83818 | *Washer, Plain .505 x .942 x .030 |
| | 120467X | *Washer, Plain .505 x .942 x .040 |
| 9 | 2286J | Ring, Retaining |
| 10 | 2267J | Ring, Retaining |
| 11 | 3413J | *Washer, Plain .632 x 1.00 x .010 |
| | 2233J | *Washer, Plain .632 x 1.00 x .020 |
| | 2232J | *Washer, Plain .632 x 1.00 x .026 |
| | 2231J | *Washer, Plain .632 x 1.00 x .031 |
| | 2230J | *Washer, Plain .632 x 1.00 x .036 |
| | 2229J | *Washer, Plain .632 x 1.00 x .041 |
| | 2228J | *Washer, Plain .632 x 1.00 x .046 |
| | 2227J | *Washer, Plain .632 x 1.00 x .050 |
| | 2226J | *Washer, Plain .632 x 1.00 x .060 |
| | 105906X | *Washer, Plain .632 x 1.00 x .082 |
| 12 | 6725J | O-Ring |
| 13 | 120415X | Washer, Plain .632 x 1.38 x .046 |
| 14 | 2257J | Key, Woodruff, #9 |
| 15 | 110077X | Kit, Input Shaft Assembly |
| 16 | 110078X | Pinion, Bevel, 14 Teeth |
| 17 | 105909X | Ring, Retaining |
| 18 | 105910X | Chain, 24 Pitches |
| 19 | 105911X | Bearing, Flange |
| 20 | 108976X | Gear, Spur, 14 Teeth |
| 21 | 105913X | Collar, Clutch |
| 22 | 120468X | Key, Clutch |
| 23 | 2242J | Key, Woodruff, #3 |
| 24 | 120469X | Shaft, Intermediate |
| 25 | 2244J | Key, Woodruff, #61 |
| 26 | 105916X | Ring, Retaining |
| 27 | 120470X | Sprocket, 18 Teeth |
| 28 | 110070X | Spacer |
| 29 | 108977X | Gear, Spur, 37 Teeth |
| 30 | 120405X | Gear, Spur, 30 Teeth |
| 31 | 108980X | Gear, Spur, 25 Teeth |
| 32 | 120406X | Gear, Spur, 22 Teeth |
| 33 | 108455X | Gear, Spur, 19 Teeth |
| 34 | 105923X | Spacer 1.133 x 1.50 x .375 |
| 35 | 105825X | Washer, Plain .640 x 1.37 x .061 |
| 36 | 2232J | Washer, Plain .632 x 1.00 x .026 |
| 37 | 108978X | Spacer .630 x 1.00 x .169 |
| 38 | 110079X | Assembly, Gear, Combination of 12 Teeth and 35 Teeth |
| 39 | 120471X | Shaft, Idler |
| 40 | 120472X | Spacer .635 x .875 x .755 |
| 41 | 105928X | Sprocket, 9 Teeth |
| 42 | 110084X | Gear, Bevel, 42 Teeth |
| 43 | 108983X | *Washer, Plain .758 x 1.12 x .010 |
| | 105930X | *Washer, Plain .758 x 1.12 x .015 |
| | 105931X | *Washer, Plain .758 x 1.12 x .020 |
| | 105932X | *Washer, Plain .758 x 1.12 x .025 |
| | 3417J | *Washer, Plain .758 x 1.25 x .020 |
| | 106097X | *Washer, Plain .758 x 1.25 x .025 |
| | 2264J | *Washer, Plain .758 x 1.25 x .031 |
| | 106098X | *Washer, Plain .758 x 1.25 x .035 |
| | 2265J | *Washer, Plain .758 x 1.25 x .040 |
| | 106586X | *Washer, Plain .758 x 1.25 x .045 |
| | 106587X | *Washer, Plain .758 x 1.25 x .050 |
| | 106588X | *Washer, Plain .758 x 1.25 x .055 |
| | 2263J | *Washer, Plain .758 x 1.25 x .062 |
| 44 | 120473X | Shaft, Drive |
| 45 | 105933X | Gear, Spur, 12 Teeth |
| 46 | 120407X | Gear, Spur, 20 Teeth |
| 47 | 106589X | Gear, Spur, 25 Teeth |
| 48 | 120408X | Gear, Spur, 28 Teeth |
| 49 | 105937X | Gear, Spur, 31 Teeth |
| 50 | 105936X | Spacer .781 x 1.00 x .375 |
| 51 | 2226J | Washer, Plain .632 x 1.00 x .060 |
| 52 | 2227J | Seal, Felt |
| 53 | 2263J | Washer, Plain .758 x 1.25 x .062 |
| 54 | 120474X | Axle, Left Hand |
| 55 | 110081X | Gear, Miter, 15 Teeth |
| 56 | 105941X | Ring, Retaining |
| 57 | 110071X | Gear, Spur, 32 Teeth |
| 58 | 120952X | Shaft, Cross |
| 59 | 110082X | Gear, Miter, 15 Teeth |
| 60 | 120475X | Axle, Right Hand |
| 61 | 120476X | Housing, Lower |
| 62 | 120961X | Puck, Friction |
| 63 | 7294J | Disc, Brake |
| 64 | 108989 | Spacer |
| 65 | 120953X | Jaw, Brake |
| 66 | 120954X | Pin, Dowel |
| 67 | 120955X | Screw, Tapping, Large 5/16-18 x 2.25 |
| 68 | 108992X | Lever, Actuating |
| 69 | 108996X | Washer, Plain .321 x 1.00 x .055 |
| 70 | 120956X | Bracket, Anti-Rotation |
| 71 | 73810500 | Locknut 5/16-24 |
| 72 | 106596X | Screw, Tapping, Large 5/16-18 x 1.44 |
| 73 | 120993X | Washer, Plain .343 x .81 x .059 |
| 74 | 120951X | Puck, Friction |
| 75 | 120416X | Grease |

* Use In Various Combinations To Maintain Proper Clearances

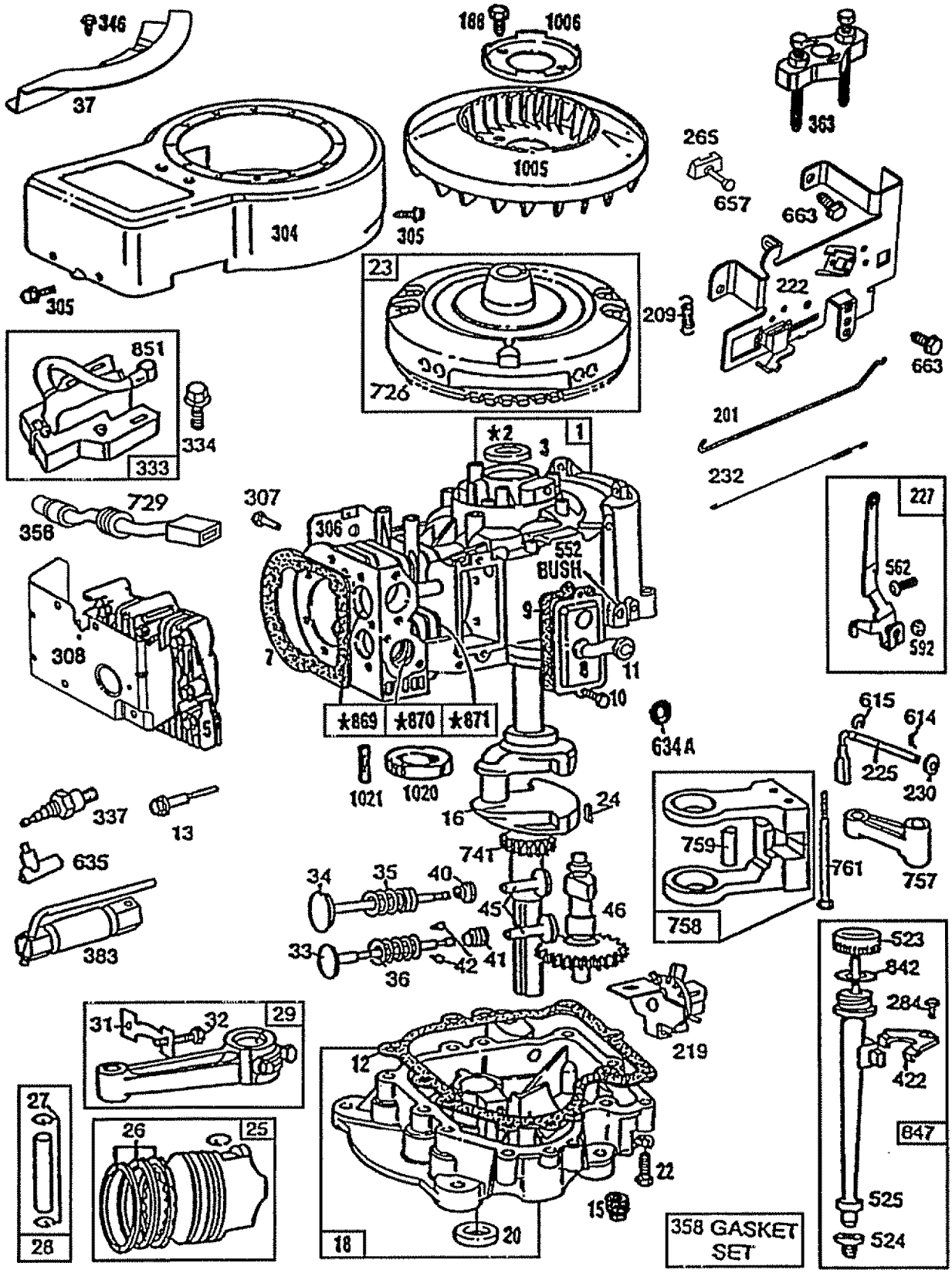
** Order Key Number 15

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

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### ENGINE BRIGGS & STRATTON - MODEL NUMBER 283707, TYPE NUMBER 0217-01



# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

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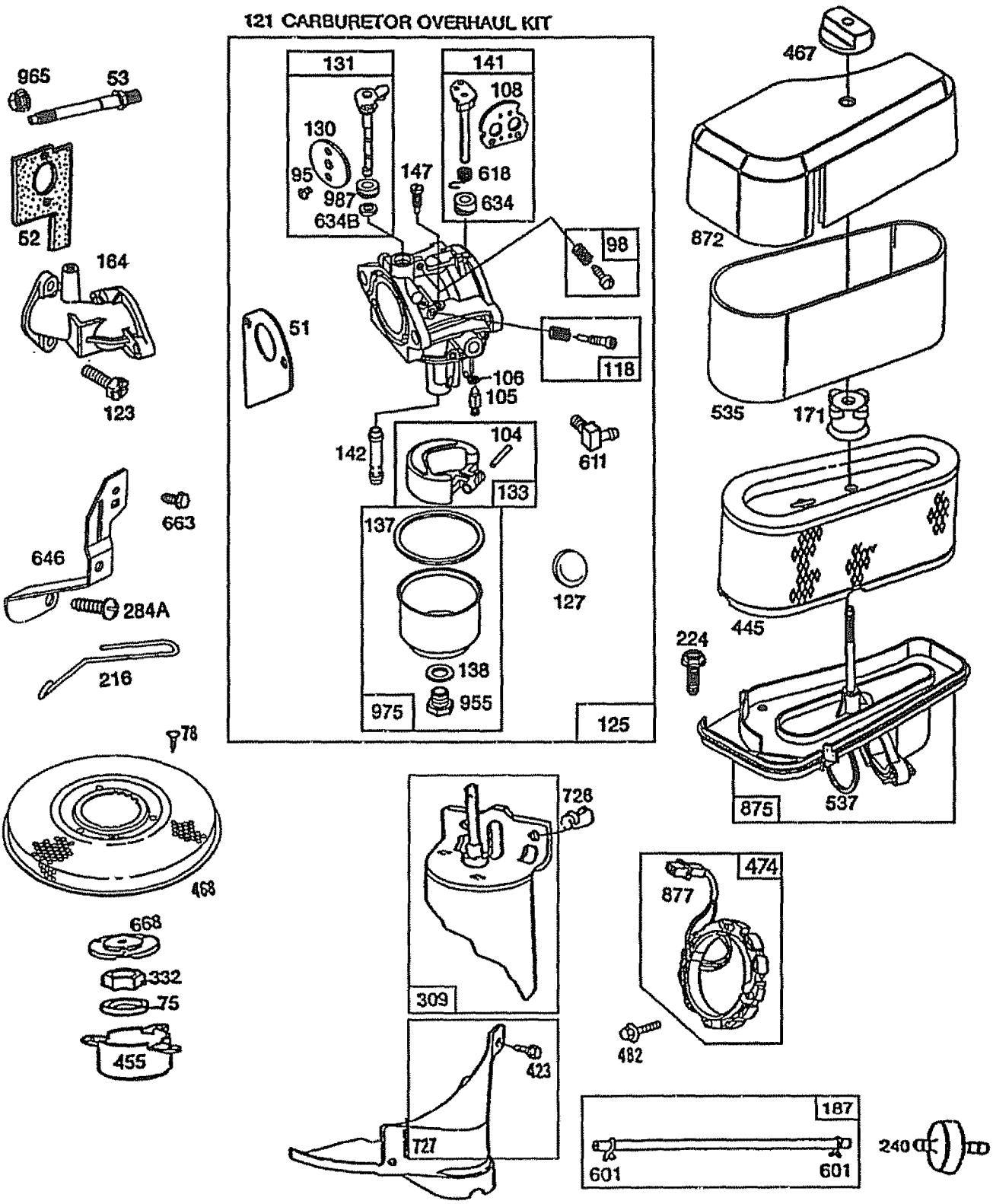
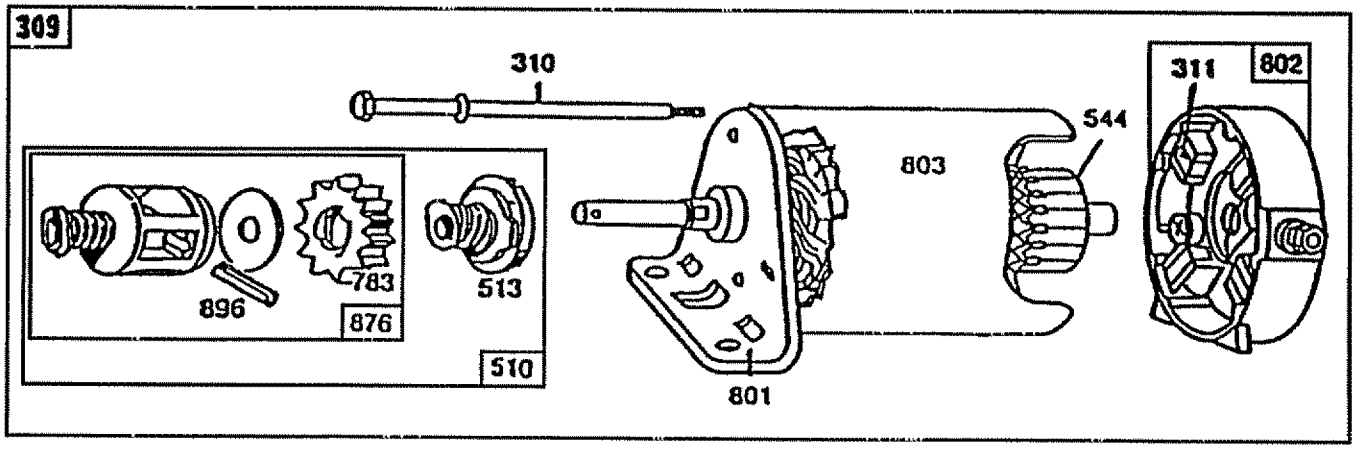


# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### ENGINE BRIGGS & STRATTON - MODEL NUMBER 283707, TYPE NUMBER 0217-01




| Reference Number | | 309 | 310 | 311 | 510 | 544 | 801 | 802 | 803 |
|---|---|---|---|---|---|---|---|---|---|
| Menufecturer | | Motor and Drive Ass'y. | Thru Bolt Assembly | Brush Assembly | Drive Assembly | Armature Assembly | Drive End Cap Assembly | End Cap Ass'y. Commutator | Housing Assembly |
| Briggs & Stratton | Housing Length | | | | | | | | |
| 12V | 3-21/32" | 394805 | 94003 | 395538 | 490421** | 390837 | 394856 | 395537* | 393825 |

*Includes Brush Set

**Includes #398003 Clutch Assembly (Ref. No. 513)
#280104 Gear (Ref. No. 783)
#490467 Retainer and Pin (Ref. No. 876)
# 94288 Roll Pin (Ref. No. 896)

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### ENGINE BRIGGS & STRATTON - MODEL NUMBER 283707, TYPE NUMBER 0217-01

| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 490450 | Cylinder Assembly |
| 2 | 399265 | Bearing, Cylinder (Requires Special Tools For Installation) |
| 3 | 391086 | * Seal, Oil |
| 5 | 494240 | Head, Cylinder |
| 7 | 271866 | * Gasket, Cylinder Head |
| 8 | 391406 | Breather Assembly |
| 9 | 27803 | * Gasket, Valve Cover |
| 10 | 93394 | Screw, Sems |
| 11 | 280100 | Tube, Breather |
| 12 | 271916 | * Gasket, Crankcase Cover 1/64" |
| | 271997 | * Gasket, Crankcase Cover .005" |
| | 271996 | * Gasket, Crankcase Cover .009" |
| 13 | 93723 | Screw, Cylinder Head |
| 15 | 94239 | Plug, Oil Drain |
| 16 | 490466 | Crankshaft |
| | 94196 | Key, Timing Gear |
| 18 | 494238 | Base, Engine |
| 20 | 291675 | * Seal, Oil |
| 22 | 94305 | Screw, Sems, Base Mounting |
| 23 | 492326 | Flywheel and Ring Gear Assembly, Magneto |
| 24 | 222698 | Key, Flywheel |
| 25 | 394661 | Piston Assembly, Standard |
| | 394662 | Piston Assembly .010" Oversize |
| | 394663 | Piston Assembly .020" Oversize |
| | 394664 | Piston Assembly .030" Oversize |
| 26 | 391780 | Ring Set, Piston, Standard Size |
| | 392331 | Ring Set, Piston, Chrome, Standard |
| | 391781 | Ring Set, Piston .010" Oversize |
| | 391782 | Ring Set, Piston .020" Oversize |
| | 391783 | Ring Set, Piston .030" Oversize |
| 27 | 260924 | Lock, Piston Pin |
| 28 | 299691 | Pin Assembly, Piston, Standard |
| | 391286 | Pin Assy., Piston .005" Oversize |
| 29 | 490348 | Rod Assembly, Connecting |
| | 490469 | Rod Assembly, Connecting, .020" Undersize Crankpin Bore |
| 31 | 222299 | Lock, Connecting Rod Screw |
| 32 | 92909 | Screw, Connecting Rod |
| 33 | 262246 | Valve, Exhaust |
| 34 | 262247 | Valve, Intake |
| 35 | 65906 | Spring, Intake Valve |
| 36 | 26828 | Spring, Exhaust Valve |
| 37 | 223752 | Guard, Flywheel |
| 40 | 221596 | Retainer, Intake Valve |
| 41 | 292260 | Rotocoil, Exhaust Valve |
| 42 | 93630 | Retainer, Exhaust Valve Rotocoil |
| 45 | 262248 | Tappet, Valve |
| 46 | 212897 | Gear, Cam |
| 51 | 272465 | *** Gasket, Carburetor (Carburetor to Elbow) |
| 52 | 270872 | * Gasket, Carburetor (Elbow to Cylinder) |
| 53 | 94637 | Stud, Carburetor Mounting |
| 75 | 224061 | Washer, Spring |
| 78 | 93805 | Screw, Sems |
| 95 | 94098 | ** Screw, Throttle |
| 98 | 494382 | Screw, Idle Speed |
| 104 | 231789 | ** Pin, Float Hinge |
| 105 | 231790 | ** Valve Assembly, Inlet Needle |
| 106 | 281169 | Inlet, Valve Seat |
| 108 | 224540 | Valve, Choke |
| 118 | 494383 | ** Valve, Needle |
| 121 | 494384 | Carburetor Overhaul Kit |
| 123 | 94616 | Screw, Elbow Mounting |
| 125 | 494502 | Carburetor Assembly |
| 127 | - - - | ** Plug, Welch (Sold in Kit Only) |
| 130 | 224539 | Valve, Throttle |
| 131 | 494379 | Shaft and Lever, Throttle |
| 133 | 494381 | Float, Carburetor |
| 137 | 281165 | *** Gasket, Float Bowl |
| 138 | 281164 | *** Washer, Float Bowl Screw |
| 141 | 494380 | ** Shaft and Lever, Choke |
| 142 | 494537 | ** Nozzle / Jet, Carburetor |
| | 494499 | High Altitude Kit:<br>231796 Pilot, Jet, High Altitude<br>281164 Seal, Bowl Screw |
| 147 | 231794 | ** Pilot, Jet |
| 164 | 213819 | Carburetor, Elbow |
| 171 | 281051 | Nut, Air Cleaner Mounting |
| 187 | 393815 | Line, Fuel |
| 188 | 93535 | Screw, Sems |
| 201 | 262767 | Link, Governor |
| 209 | 260871 | Spring, Governor |
| 216 | 262766 | Link, Choke |
| 219 | 490815 | Oil Slinger, Governor Gear and Bracket Assembly |
| 222 | 494887 | Plate, Governor Control (Choke-A-Matic) |
| 224 | 94513 | Screw, Sems, Air Cleaner |
| 225 | 231058 | Crank, Governor |
| 227 | 493935 | Lever Assembly, Governor |
| 230 | 222450 | Washer, Governor Crank |
| 232 | 262785 | Spring, Governor Link |
| 240 | 394358 | Filter, Fuel |

* Included in Gasket Set (494241)
** Included in Carburetor Overhaul Kit (494384)
*** Included in both Carburetor Overhaul Kit (494384) and Carburetor Gasket Set (494385)

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

# REPAIR PARTS

## 12 HP 38" TRACTOR - - MODEL NUMBER 917.257281

### ENGINE BRIGGS & STRATTON - MODEL NUMBER 283707, TYPE NUMBER 0217-01

| KEY NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 265 | 221535 | Clamp, Casing |
| 284 | 94419 | Screw, Clamp Mounting |
| 284A | 94326 | Screw, Air Cleaner |
| 304 | 494269 | Housing, Blower |
| 305 | 94608 | Screw, Sems, Blower Housing Mounting |
| 306 | 224545 | Shield, Cylinder |
| 307 | 93949 | Screw, Sems, Cylinder Shield Mounting |
| 308 | 491490 | Cover, Cylinder Head |
| 309 | - - - | Motor, Starting (See Chart on Illustrated Pages for Replacement Parts for Starting Motors) |
| 332 | 92284 | Nut, Hex |
| 333 | 492341 | Armature, Magneto |
| 334 | 93381 | Screw, Sems, Armature Mounting |
| 337 | 802592 | Plug, Spark |
| 346 | 93705 | Screw, Hex Head |
| 356 | 494328 | Wire, Ground |
| 358 | 494241 | Gasket Set |
| 363 | 19203 | Puller, Flywheel |
| 383 | 89838 | Wrench, Spark Plug |
| 422 | 223721 | Clamp, Oil Filler Tube |
| 423 | 94073 | Screw, Sems |
| 445 | 493909 | Cartridge, Air Cleaner |
| 455 | 222561 | Cup, Screen Mounting |
| 467 | 493903 | Knob, Air Cleaner |
| 468 | 222562 | Screen, Flush Rotating |
| 474 | 393474 | Stator, Alternator |
| 482 | 93621 | Screw, Sems |
| 523 | 490327 | Cap and Dipstick, Oil Filler |
| 524 | 68838 | Seal, Filler Tube |
| 525 | 280741 | Tube, Oil Filler |
| 535 | 272403 | Element, Air Cleaner |
| 537 | 281106 | * O-Ring, Air Cleaner |
| 552 | 231597 | Bushing, Governor Crank |
| 562 | 92613 | Bolt, Governor Lever |
| 592 | 231082 | Nut, Hex #10-24 |
| 601 | 93053 | Clamp, Fuel Pipe |
| 611 | 494451 | Fuel Inlet Tube |
| 614 | 93306 | Cotter, Hair Pin |
| 615 | 93307 | Retainer, E-Ring |
| 618 | 262803 | Spring, Choke Return |
| 634 | 281168 | ** Seal, Choke Shaft |
| 634A | 491323 | * Seal, Governor |
| 634B | 281167 | Washer, Throttle Shaft |
| 635 | 66538 | Elbow, Spark Plug |
| 646 | 224546 | Brace, Air Cleaner |
| 657 | 93496 | Screw, Sems |
| 663 | 94620 | Screw, Hex Head |
| 668 | 280848 | Spacer |
| 726 | 392134 | Gear, Ring (Includes Mounting Parts) |
| 727 | 490324 | Cover, Starter (Includes Mounting Screws) |
| 728 | 94627 | Screw, Sems |
| 729 | 28159 | Clip, Lead Wire |
| 741 | 262135 | Gear, Timing |
| 757 | 212359 | Link, Counterweight |
| 758 | 399891 | Counterweight Assembly |
| 759 | 298909 | Pin, Counterweight |
| 761 | 93875 | Screw, Countenweight |
| 842 | 270920 | Seal, Oil Filler Cap |
| 847 | 490474 | Fill Group, Oil |
| 851 | 221798 | Terminal, Ignition Cable |
| 869 | 261463 | Seat, Intake Valve, Standard |
| 870 | 213316 | Seat, Exhaust Valve, Standard |
| 871 | 261961 | Guide, Exhaust Valve |
| 872 | 281104 | Cover, Air Cleaner |
| 875 | 494237 | Body, Air Cleaner |
| 877 | 393456 | Diode and Connector Assembly, Dual Circuit |
| 955 | 94642 | ** Screw, Fuel Bowl |
| 965 | 94108 | Locknut, Air Cleaner Mounting |
| 975 | 494378 | Bowl Assembly, Carburetor |
| 977 | 494385 | Carburetor Gasket Kit |
| 987 | 281166 | ** Seal, Throttle Shaft |
| 1005 | 280687 | Fan, Flywheel |
| 1006 | 224413 | Retainer, Fan |
| 1020 | 262243 | Eccentric |
| 1021 | 94160 | Pin, Eccentric |

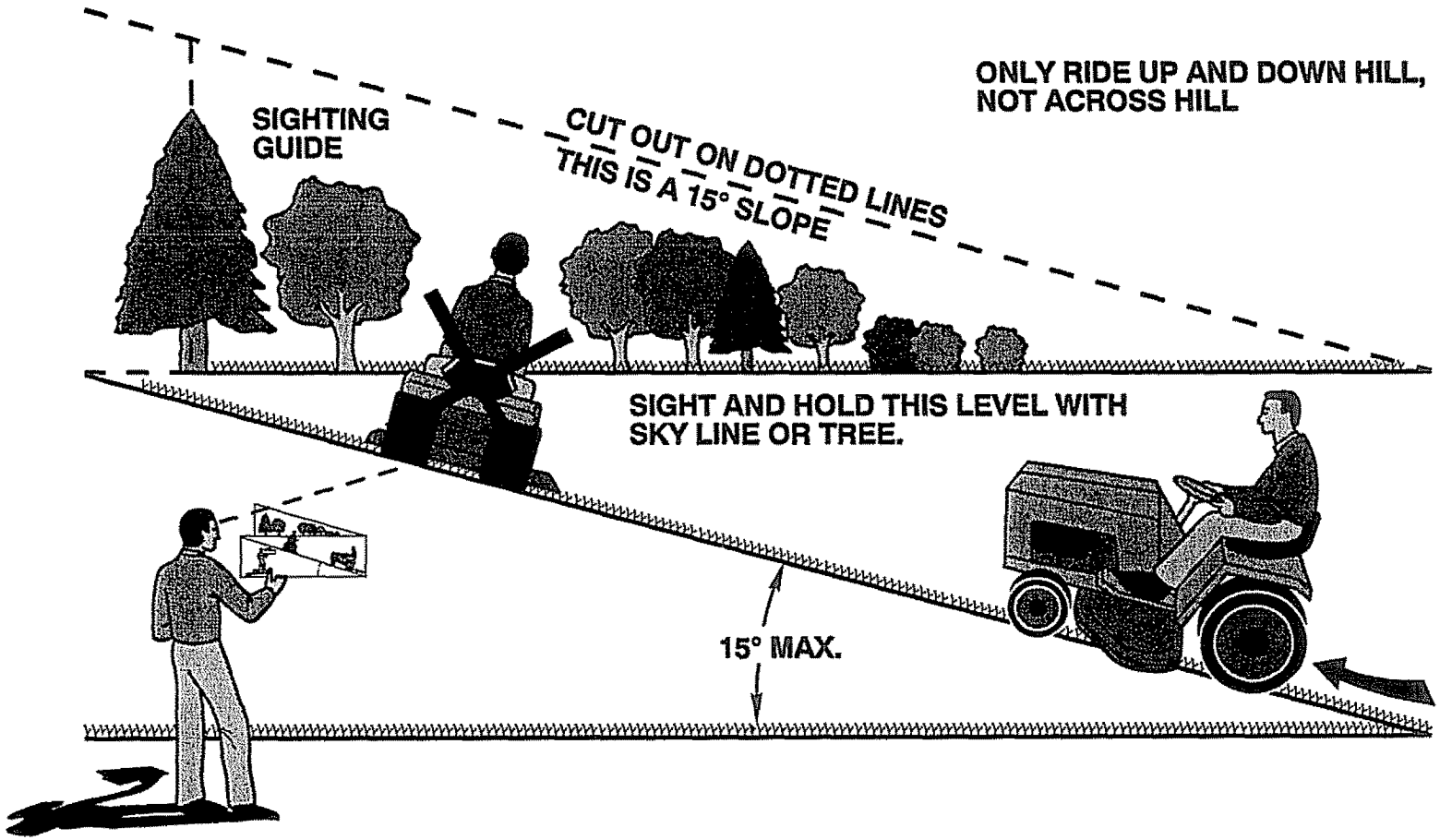
* Included in Gasket Set (494241)
** Included in Carburetor Overhaul Kit (494384)
*** Included in both Carburetor Overhaul Kit (494384) and Carburetor Gasket Set (494385)

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

# SERVICE NOTES

# SERVICE NOTES

# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION




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

SEARS

# OWNER'S MANUAL

## MODEL NO. 917.257281

## HOW TO ORDER REPAIR PARTS

# CRAFTSMAN®

# 12.0 HP IC ELECTRIC START 38" MOWER DECK 5 SPEED TRANSAXLE LAWN TRACTOR

Each tractor has its own model number. Each engine has its own model number.

The model number for your tractor will be found on the model plate located under the seat.

The model number for your engine will be found on the blower housing.

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

**WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:**

- **PRODUCT - LAWN TRACTOR**
- **MODEL NUMBER - 917.257281**
- **ENGINE MODEL NUMBER - 283707, TYPE NUMBER 0217-01**
- **PART NUMBER**
- **PART DESCRIPTION**

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

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

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